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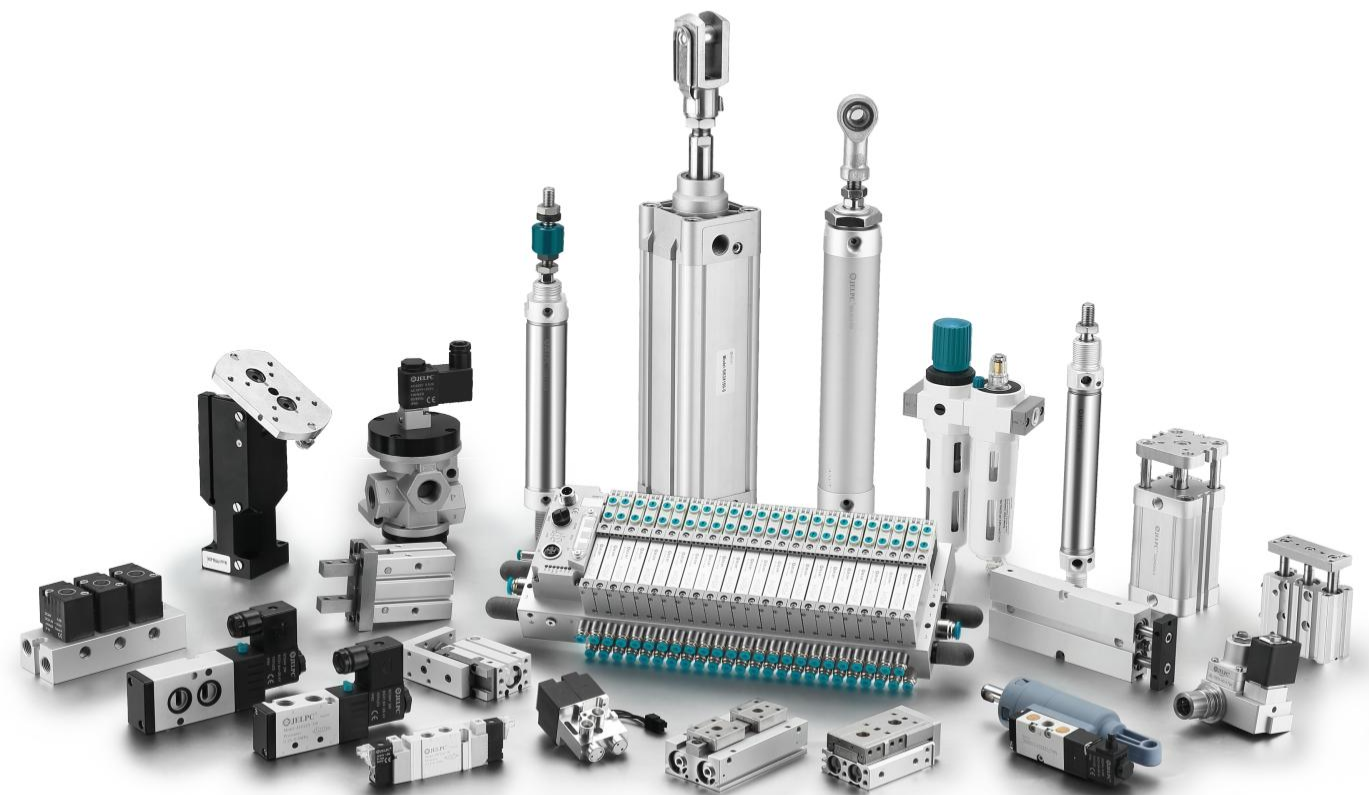
Official Website



Official Wechat



pneumatic



Customized pneumatic control technology solutions for global customers

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2008

Solenoid valve supplier for water supply and drainage system of Bird's Nest and Water Cube in Beijing Olympic Games.

2010

Designated supplier supporting the environmental recovery system of Shanghai World Expo.

Since 2015

JELPC has contributes to rail transit, new energy vehicles, big health and other industries, and has become a pneumatic engineering technical support and high-end production line supporting unit for high-speed rail, commercial vehicles, medical equipment and high-end automated production lines.

Nowadays

Based on the precipitation of pneumatic control technology for 25 years, we are committed to the research and development of key pneumatic components, realizing domestic substitution, and customizing pneumatic control technology solutions for more than 200 customers all over the world.

About JELPC

Ningbo Jiaerling Pneumatic Machinery Co., Ltd. is a well-known manufacturer specializing in the design and production of pneumatic components, a national high-tech enterprise, listed as one of the "little giant" companies with high growth potential, advanced technologies and strong market competitive edge by China's Ministry of Industry and Information Technology. It has been awarded AAA-level contract-abiding and credit-abiding unit in Zhejiang Province, May 1st Labor Award in Zhejiang Province, outstanding contribution unit in national (industry) standard setting, outstanding contribution award unit in the 13th Five-Year Plan for scientific and technological innovation in China pneumatic industry, and the first government quality award in Fenghua City. It is a vice-president company of Sub-Association for Pneumatic CHPSA, the president unit of Fenghua High-tech Enterprise Association and the fourth president unit of Fenghua Pneumatic Industry Association.

Established in 1999, It is an over 50,000 sqm area modern garden factory integrating R&D, production, procurement, marketing and office. There are more than 400 employees at present, among whom professional and technical engineers account for 1/4 of the total number of employees, and "Zhejiang Provincial High-tech Enterprise R&D Center" and "Zhejiang Postdoctoral Workstation" have been established. Equipped with three-coordinate measuring instrument, three-dimensional projector, high-precision flow test platform and pneumatic component comprehensive test platform, with strong independent research and development capabilities. Over the years, the company has maintained Industry-University-Research cooperation with Zhejiang University, Beijing Institute of Technology, Beijing University of Aeronautics and Astronautics and other well-known universities, and has joined forces with Airtec, a well-known German pneumatic component manufacturer, to carry out in-depth strategic cooperation in product design, sales, processing technology and employee training. The annual R&D investment accounts for more than 5% of the turnover, and now it has accumulated 96 patents on various inventions, and has presided over and participated in the preparation and revision of 23 national standards. The company has first-class machining equipment and automatic production line, and the integration of on-site lean management and management software system (ERP&MES) has accelerated the construction process of digital factory, and laid a solid foundation for providing customers with high-quality products and services.

As an important member of the first matrix of national pneumatic industry in China, JELPC sticks to the strategy of "customizing pneumatic control technology solutions for global customers", and focuses on R&D of core components and parts in the miniaturized, integrated, smart, modularized pneumatic control system and executive system. Various products independently developed by the company are used as the basic core components of intelligent manufacturing equipment, advanced transportation equipment, high-end medical instruments, precision instruments and other critical fields. They are widely applied in multiple industries like industrial automation, life and health, high-speed rail, new energy vehicles, etc., and adopted as the supporting products of some world Top 500 and large domestic listed companies.

In October 2023, Sanhua Holding Group reached a strategic cooperation with JELPC, deeply empowered JELPC, vigorously strengthened investment in technological innovation and product research and development, constantly expanded new fields and explored new markets, and strived to become a leading enterprise in the global pneumatic industry, providing leading pneumatic component products and industrial control technology solutions for the industry.

JELPC, from selling products to loving customers, strives to be "China Good Pneumatic". Create value for customers, create wealth for society, and realize the grand goal of industry serving the country.

Our ethic

Company Mission

Be good pneumatic, support the high-quality development of the equipment manufacturing industry

Company Values

Focus Responsibility
Development Thanksgiving

Slogan

Good Pneumatics-JELPC

Strategic Innovation

From providing products to caring customers

Company Vision

Become a global leader in the pneumatic industry

Strategic Objective

Become a leader of China's pneumatic industry in 2030.

Working Attitude

Quick response and immediate action

Quality Policy

Quality is the permanent pursuit of JELPC



Vice Chairman of
Pneumatic Control and
Transmission Branch of
National Hydraulic and
Pneumatic Standardization
Technical Committee

Outstanding contribution to the
National Hydraulic and Pneumatic
Standardization Technical Committee
for the development of national
(industry) standards.

Zhejiang Labor Day
Award

Government Quality
Award

AAA Grade Enterprise of "Abiding
by Contract and Paying Attention
to Credit" in Zhejiang Province

Fenghua Charity Award



Enterprise Honor

Professional, Refined,
Special, Innovative
"Little Giant" enterprise

National High-tech
Enterprises



ISO 14001

ISO 45001

GB/T 29490
Enterprise
Intellectual
Property
Management
System

ISO 9001

IATF 16949

CE Certification



1000m² R&D Center

Technological development, scientific management

Our company possesses a group of technicians who are brilliant in technique and dedicated to work and are engaged in the research and development of various kinds of new products. The company has many advanced equipments with which we can comprehend our new products very well.



■ Performance Testing



■ R&D Training and Discussion



■ Lifetime Testing

With quick connector direct type solenoid valve | High & low Pressure switchable direct type solenoid valve | Rotary valve | Quick exhaust valve | With storage tank closed rotary valve | Pressure switching valve | Hard ceramic seal for solenoid valve



Scientific Research Development Achievement

■ Participate in the formulation of national industry standards

23 items

■ Invention Patent

20 items

■ Utility Model Patent

61 items

■ Appearance Patent

15 items



■ PM micro pressure swing adsorption oxygen machine solenoid valve won the third prize

■ Draw control valve was rewarded National New Excellent Product prize

■ The compact cylinder was rewarded National New Excellent prize

■ Diaphragm solenoid valve was rewarded as the National New Excellent product

■ MCS solenoid valve was rewarded the third prize of National New Excellent product

■ MP301-8606010 air control valve was rewarded the third prize of National New Excellent product

Excellent equipment Casting high-quality products



Solenoid Valve Machining Truss Manipulator



Machining Center



Process Inspection Center



Precision Automatic Lathe



Digital Workshop



Solenoid valve Automatic Assembly Line

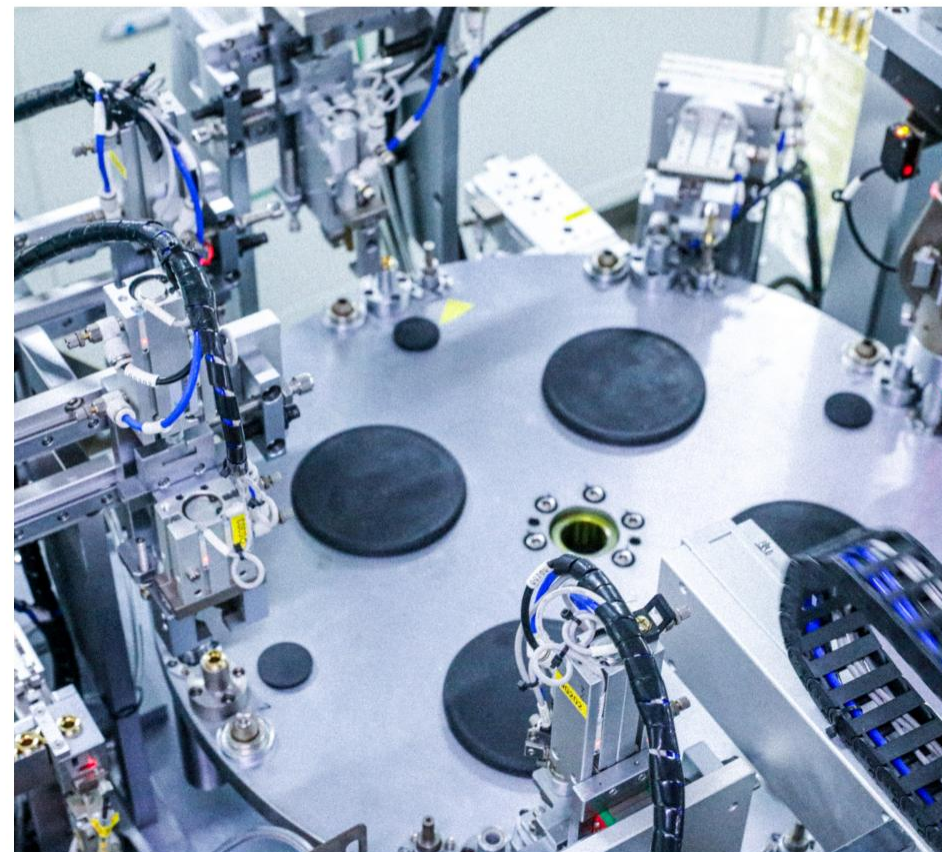


Ultrasonic Cleaning Machine



We focus on quality

Product Testing



Solenoid Valve Auto Assembly Line



3D Projector



Three Coordinate Measuring Instrument



PU Tube Workshop



Surface Treatment Line



6th Dec 2014, JELPC with German famous pneumatic company AIRTEC company formally signed a long-term strategic cooperation agreement, It marked JELPC the internationalization development way up to a new step.



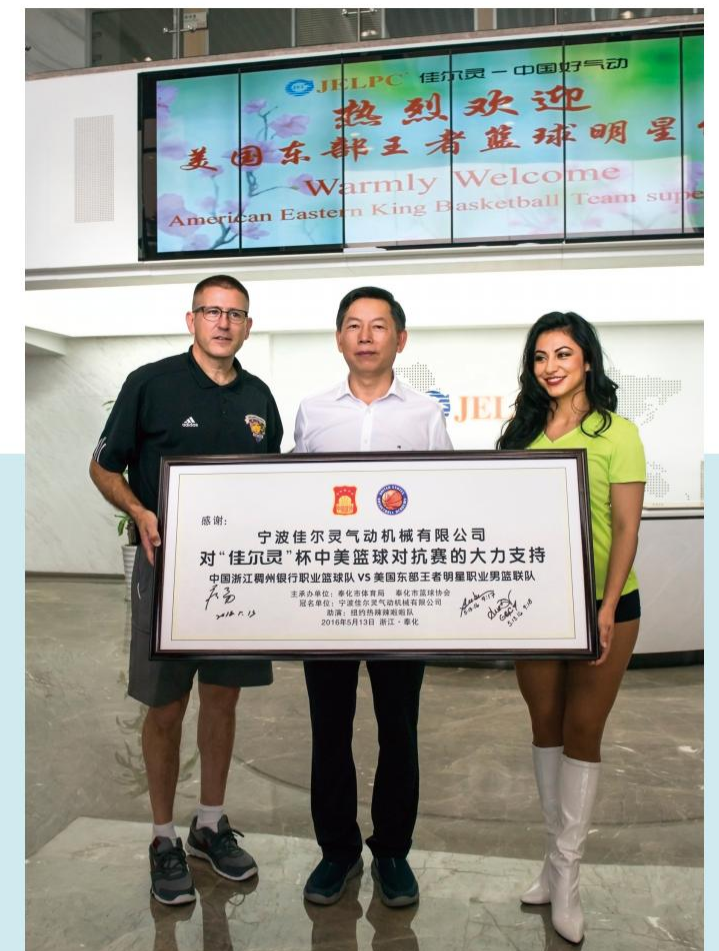
"Ten Enterprises Connecting Hearts" enters JELPC to learn, share and grow together



JELPC and AIRTEC jointly held cooperation agreement in 2015 Shanghai PTC Exhibition.



JELPC celebrated the successful convening of the Beijing Olympic Games on 8th.Aug.2008



JELPC cup of China-USA basketball match



30th Nov 2015, JELPC dispatch four technical backbone to AIRTEC Germany for technical communication and learning.



AIRTEC Products Display



Basketball gym of the Staff Activity Center

Rail transit



◀ **Door pump system**
The customized Pneumatic cylinders and solenoid valves applied to open/close door pump system on high-speed rail trains can sustain to low temperature of minus 40 degrees and to completely replace original imported products.



◀ **Gas source drying system**
Customized locomotive air source system adsorption dryer control valve.



◀ **Wiper system**
The locomotive wiper system consists of a special swinging cylinder and a control valve to realize the swinging work and speed regulation of the wiper.



◀ **Air filtration system**
The door system has compressed air filtration, self-contained ball valve, special water cup explosion-proof, high and low temperature resistance.

Automobile



◀ **Gearbox system**
A customized Pneumatic shifting mechanism for gearbox automatic shifting systems. The mechanism adopts an integrated design of the coil cylinder and is compacted in structure to directly be mounted on the gearbox. The mechanism to have analog output of cylinder position allows the car ECU to accurately track the shift position.



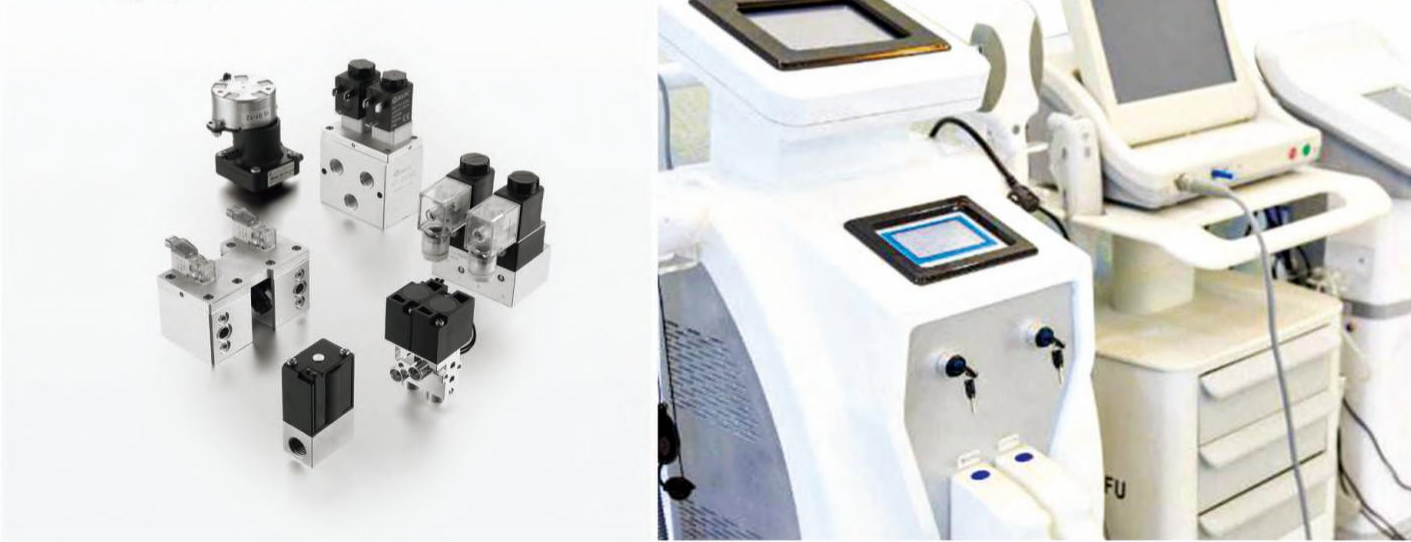
◀ **Intelligent brake system**
A specific product developed in collaboration with customers for automatic emergency braking system (AEBS) on commercial bus can output different air pressures to control brake cylinders or airbags according to the input signal of the auxiliary brake system, thus, to achieve different braking force for slowing down car speed under different conditions. This product has applied for an innovation patent.



◀ **Door pump system**
Customized commercial vehicle door pump system series pneumatic components, including cylinders, valves, filters, etc. All pneumatic components are normally used in extremes of minus 40 degrees and have good low temperature sealing performance. It also has a one-button start, emergency valve shielding and other derivative functions.

Medical industry

- ▶ Major gas circuit switching parts of Oxygen machine, suitable for various oxygen generators with 18L/min oxygen production which can achieve PSA and VPSA oxygen production methods.



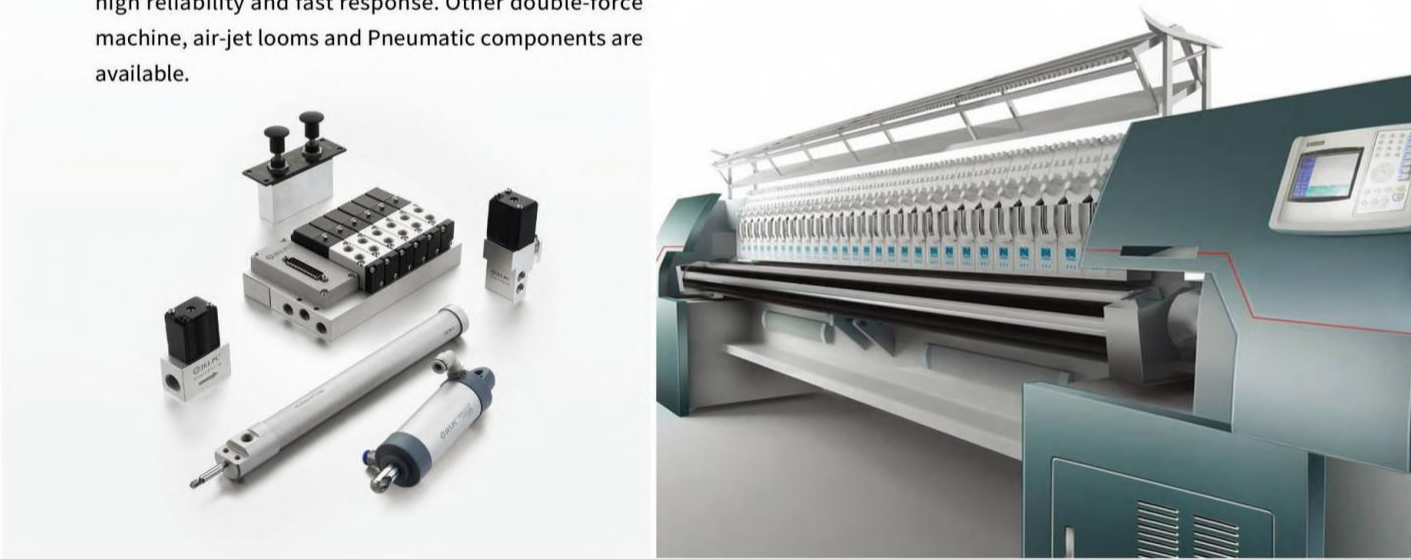
Robot industry

- ▶ Pneumatic robot end actuators for rotation, flipping, clamping and telescoping.



Textile industry

- ▶ Specified plastic cylinders and corresponding solenoid valve sets are widely used in spinning machines with high reliability and fast response. Other double-force machine, air-jet looms and Pneumatic components are available.



Special cylinder for clamping mechanism

- ▶ A series of customized cylinders, mainly used for pneumatic clamping or gripping fixtures. It is widely used in automation industry, especially in automotive assembly lines.



1



CONTROL COMPONENT

2

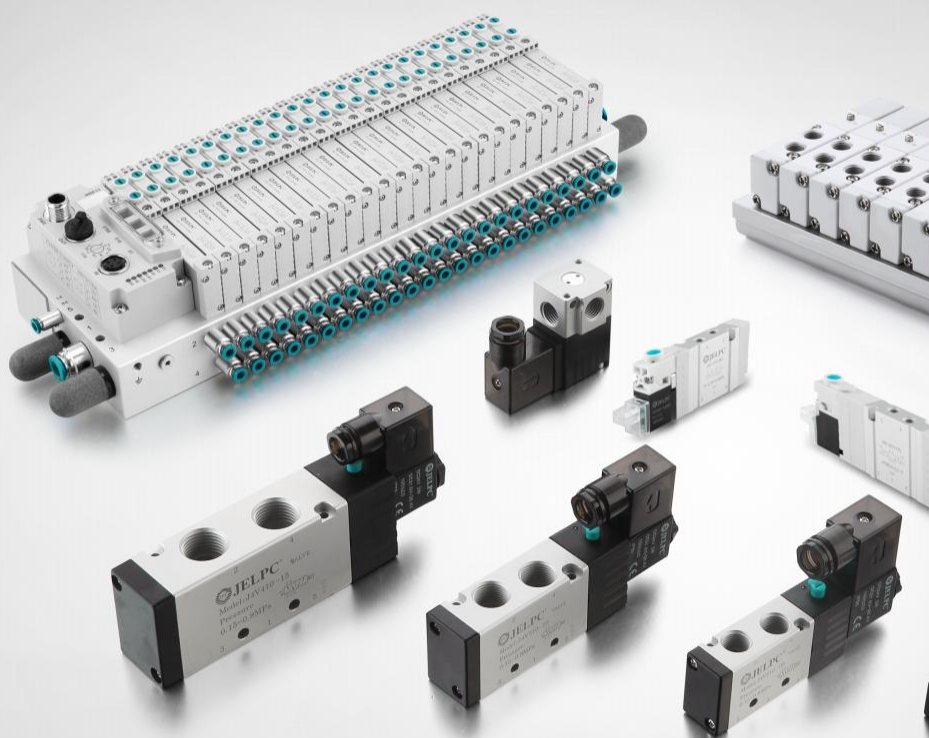
Execution Component

3

Air Source Unit

4

Pneumatic Accessory



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1-03 J4V100 Series Solenoid Valve, Air Pilot Valve



1-09 J4V200 Series Solenoid Valve, Air Pilot Valve



1-16 J4V300 Series Solenoid Valve, Air Pilot Valve



1-23 J4V400 Series Solenoid Valve, Air Pilot Valve



1-27 100-400 Series Manifold



1-28 JSY Series Solenoid Valve



1-32 Valve Terminal



1-46 JVT307 High Frequency Valve



1-48 JVT317 Solenoid Valve



1-50 JEL Series Solenoid Valve



1-53 MVSD Series Solenoid Valve



1-55 VF Series Solenoid Valve



1-58 NAMUR Series Valve



1-59 551 Series Solenoid Valve



1-62 JEL10 Series Mini Solenoid Valve



1-64 3VJZF Series 3/2 Way Stop Solenoid Valve



1-66 JEL Series Diaphragm Solenoid Valve



1-68 JELVD Series Rotary Valve



1-71 3V1 Series Solenoid Valve



1-74 Coil, Seal Ring



1-75 2P Series 2/2Way Solenoid Valve (Direct Operated)



1-76 2V Series 2/2 Way Solenoid Valve



1-78 2W Series 2/2 Way Solenoid Valve (Direct Operated)



1-79 2W (Large Port) Series 2/2 Way Solenoid Valve (Direct Operated)



1-81 2L Series 2/2 Way Solenoid Valve

CONTENTS OF CONTROL COMPONENT



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VX Series 2/2 Way Solenoid Valve (Direct Operated)



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Hand Pull Valve



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PU Series 2/2 Way Solenoid Valve (Direct Operated)



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PU Series Solenoid Valve (For Steam)



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Hand Switching Valve



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Pu225 Series Solenoid Valve



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Hand Draw Valve



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2Q Series 2/2 Way Valve



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Foot Valve



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JEL6213 Series Solenoid Valve



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Vertical type/Pipe connecting type Solenoid Pulse Valve



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QE, QEA Series Quick Exhaust Valve



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2/2 Viton Type Multimedia Angle Valve



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ST Series Shuttle Valve



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Stainless Steel Series Angle Valve



1-120

Hand Sliding Valve

Instructions of Control Component

Notices of design usage



Warning

1. The characteristics of compressed air and the use of this product must be fully understood when the circuit is designed. Please use the specifications according to the specified in the catalogue. Beyond the norms of the pressure, temperature, working medium and other conditions of use, will cause poor operation and affect the safety of the operation.
2. Working medium is compressed air, with expansion, the unstable pressure may cause fly out, spray, or leak which need attention.
3. Need to take into account if emergency or instant switching power supply when design and selectio , which will cause dislocation or movement of the drive object and influence safety. And need to take into account suited control machine when use it.
4. Excessive water in the pipeline will cause the solenoid valve to run bad, please install water removal device.
5. When air compressor operation it will cause carbon dust and impurities, excessive adhesion in the solenoid valve will lead to poor operation, therefore the front-end should install filters to avoid internal stuck inside the valve body.
6. Surrounding environmental requirements:
 - (1) Avoid use in chemicals, flammable, corrosive and sea water, high temperature and other environment
 - (2) Avoid use in the heat and heat radiation environment
 - (3) The use of the surrounding environment temperature, should according to the scope of the specification parameter list
 - (4) Avoid outdoor hot sun, rain, dust and other environment which will cause instability quality
 - (5) Should avoid use in the oily, flammable and explosive occasions



Caution

1. When the middle position in the three position stop and used for pressure maintenance, need to pay attention to the pipeline gas source leakage and supply of air supply has changed, influence of pressure drop caused by position change.
2. The operation of the machine needs to worried that the leakage current affects the normal operation of the other controllers, so it is necessary to use the appropriate loop to ensure the device, avoid the wrong action of the solenoid valve.

Notices of operation



Warning

1. When the solenoid valve is electrified,the electromagnetic valve can not be switched by the manual button. After using the manual button it should return to normal position.
2. Solenoid valve coil can not be connected to the wrong voltage, to avoid damage to the solenoid valve coil
3. The use of the instantaneous power of the double acting solenoid valve should more than 0.1 second.
4. Voltage supply need to install voltage stabilizing device, the range of voltage fluctuation should be controlled within 10% to avoid sudden wave generation.

Notices of installation



Warning

1. Installation way need pay attention: the double action type and three position type, please installed horizontally.
2. If there is occasions which vibration more than 50m/S² in the installation position, please do not use. If in a slight vibration occasion, the solenoid valve spool and the vibration direction must be right angle of ninety degrees when installation, avoid loosening and shedding phenomenon.
3. Before mate air pipe, need to prevent foreign debris and dust entering the solenoid valve, cause breakdown and wrong actions.
4. Before mate air pipe and assembly fittings, need to prevent leakage and paint of raw material belt into the tube. When winding the raw material belt, need reserve 1~1.5 thread, do not winding the raw material belt.
5. If using liquid fixing glue (Anaerobic adhesive) to lock fitting, should avoid excess liquid glue inflow, cause parts get stuck and poor operation.
6. Should use the appropriate torque to avoid damage to the product during in mating air pipe (lock fitting).
7. Solenoid valve exhaust port need to install silencer device to avoid excessive exhaust noise. If do not install silencer device, should avoid inhalation of foreign body in exhaust port perimeter, and exhaust port should be installed downward (foreign body easy to inhale when installed upward).
8. When using the base, need to pay attention to the concentration of exhaust, not completely exhausted out can cause backpressure phenomenon, and influence the switching of the solenoid valve and the normal operation.
9. After installation, in order to avoid damage of the plastic material and lead to obstruction and poor movement, should avoid contact with water soluble solvents and coating equipment and so on.
10. When using base to fix solenoid valve,should pre tight positioning and then clamping balanced on both sides to avoid leakage phenomenon.
11. The piping distance between solenoid valve and cylinder should avoid influence operation effect and response speed due to the long distance.

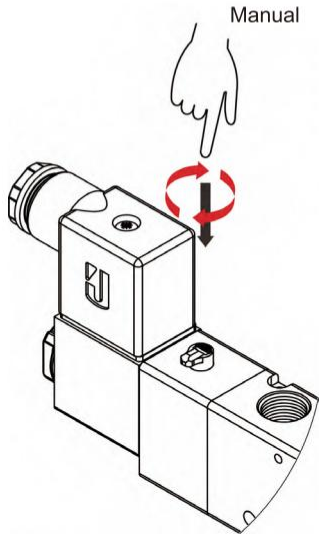
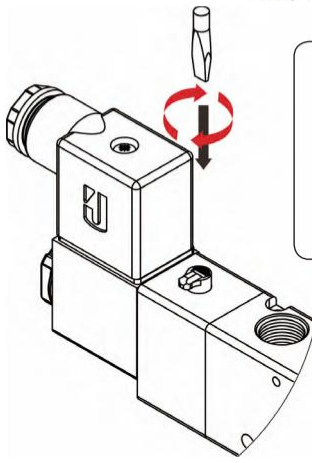
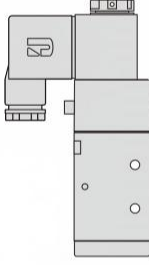
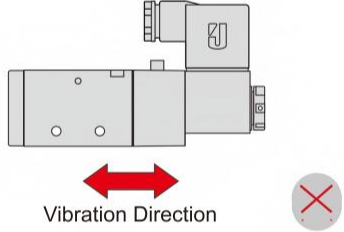
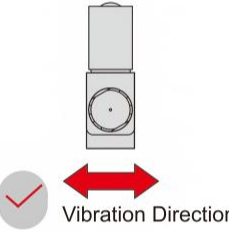
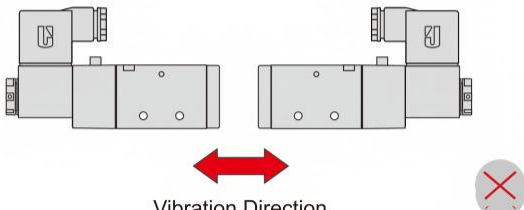
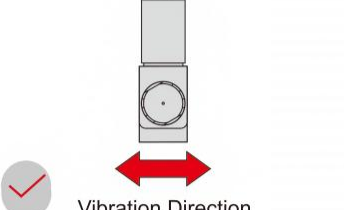


Caution

1. Please consider the heat dissipation problem when long time power usage.
2. When use mid-position closed solenoid valve, should pay special attention to whether there is leakage between the solenoid valve and the cylinder, thus causing the error movement or position movement phenomenon.

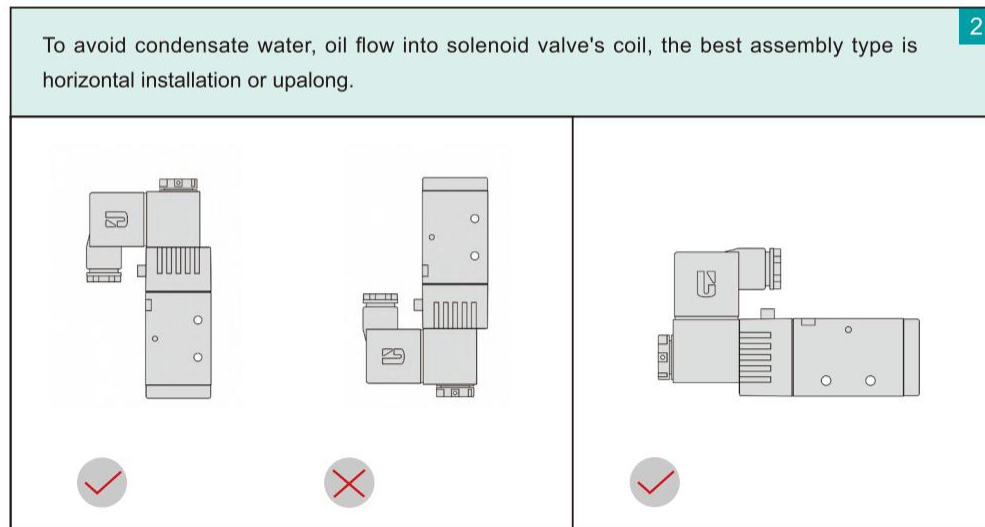
Instructions of Control Component

Rules of installation and use

Rotate lock knob by method 1: Manually press down the lock knob by a finger to rotate clockwise as shown arrow direction.	Rotate lock knob by method 2: Press down the lock knob by a screwdriver to rotate clockwise as shown arrow direction.
Manual 	Caution Please press gently with a screwdriver (when using the rotary tool (torque 0.1N.m))  LOCK  Position when locked
Avoid the impact of vibration on the spool of a valve: While installation a valve on equipment, make sure vibration direction of the equipment has 90° degree difference of the movement of the valve's spool to avoid the impact on the spool.	
☆ Single coil solenoid valve ○ Install a valve with coil at upward or horizontal position.	
 Vibration Direction	 Vibration Direction
 Vibration Direction	 Vibration Direction

Instructions of Control Component

Rules of installation and use



Notices of maintenance and repairmen



Warning

1. Before maintenance, please make sure the power and the air-pressure source are closed, confirm that there is no residual voltage, to start work after checking all the things are ok.
2. Please make sure all the manual operation are back to the original position before start work
3. Only the technician who is familiar with the structure of the product can disassembly the valve. Must avoid the safety problem caused by the wrong way of disassembly and assembling.



Caution

1. Please make sure the air source is dry without any moisture or impurity, and pay attention to the front filter and drainer whether they are normal operation.
2. The valve is smeared with lubrication oil when assembling, so do not need to feed oil during normal operation. If you need to smear oil, please use the lubrication oil ISO-VG32, otherwise it may cause bad operation (need to smear oil when the work occasion is micro moisture in the air and fast working)
3. During in maintenance and repair, should be regularly scheduled to perform, and confirm do normal operation as follows:
 - (1) Whether the air pressure is compressed in a stable range?
 - (2) Whether the front filter and drainer are ok?
 - (3) Whether the connect position or tubing are untight?
Whether the connect position is ok?
 - (4) Whether the condition of the valve is ok? Whether the operation is delay? Whether the condition of exhaust is ok? Whether there is some allophone?
 - (5) Whether the pipeline system of the actuator is ok? Whether the start and stop operation of the terminal is ok? Whether the load system is ok?
 - (6) Whether the oil feed system is ok? Whether the adjustment of the oil is appropriate?
 - (7) Whether the exhaust system is smooth? Whether it is blocking? Whether the speed of the exhaust is ok?

J4V Series

Solenoid Valve



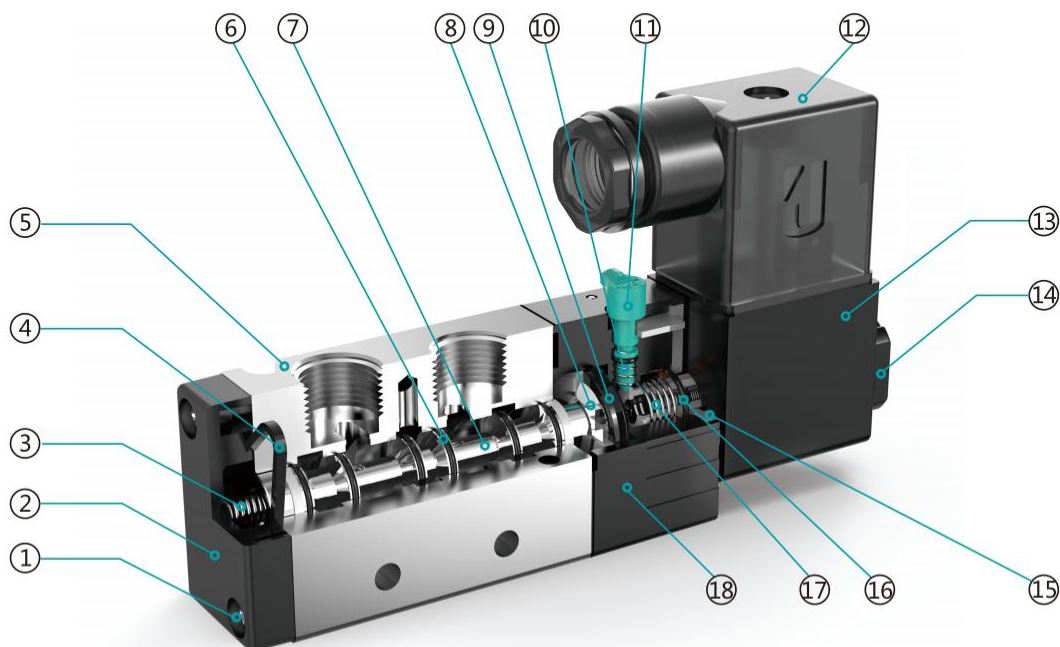
Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Features

1. The Anti-friction seal is added at both ends of the valve spool to make the valve spool more stable during the switching process and increase the valve life time.
2. Seals original imported from Japan; Optimize valve body inner flow path; Maximum increase the air flow area.
3. Valve piloted seat is from taiwan, the surface design with 5 pcs stripe; increased the strength of mannual ride spindle; the appearance is more distinctive (applied appearance patent).
4. The valve body surface treatment adopts a new environmental protection process.
5. Fully automated assembling & test line with good product consistency.

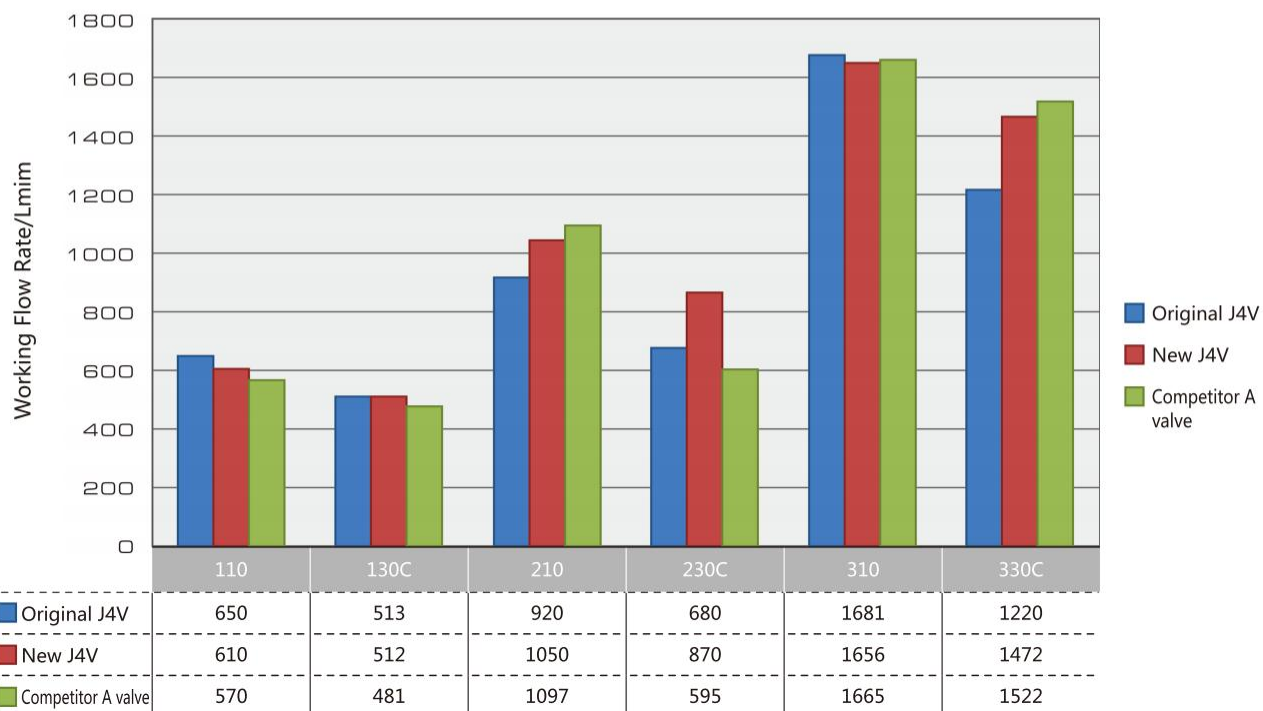
Internal Structure



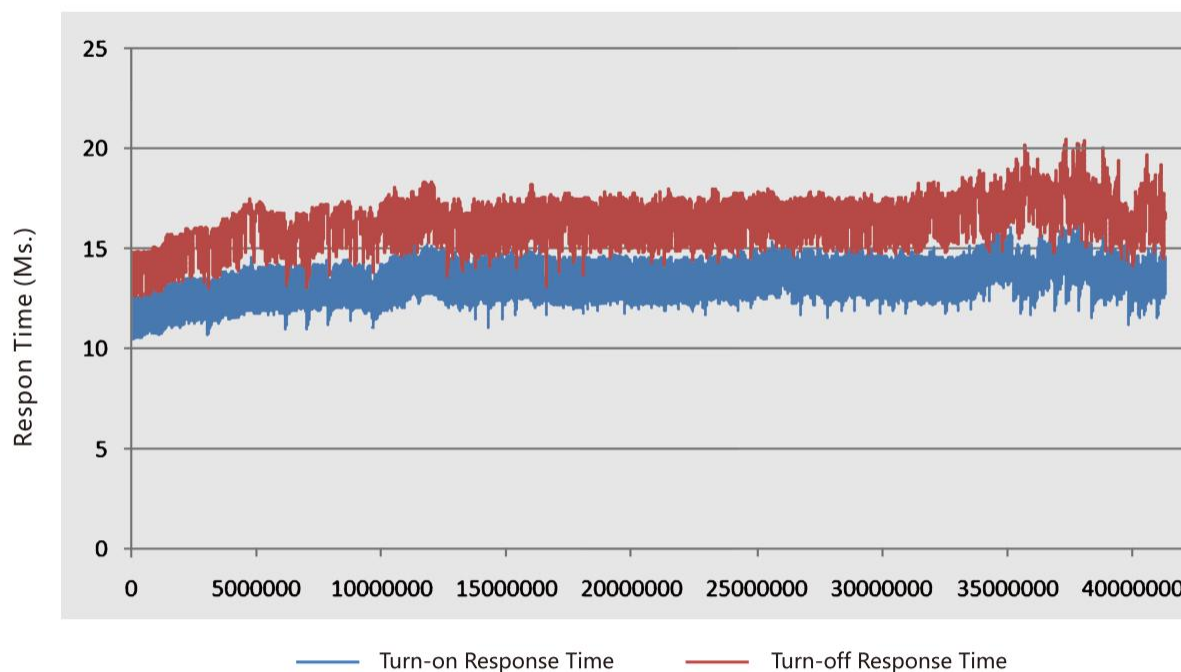
Parts

Number	Name	Number	Name	Number	Name
1	Cross slot pan screw	7	Valve spool	13	Coil
2	Back cover	8	Piston	14	Coil nut
3	Spring	9	Y ring	15	Fix plate
4	Anomalous seal	10	Spring	16	O ring
5	Valve body	11	Mannual ride spindle	17	Plunger
6	Flat ring	12	Terminal	18	Pilot seat

Improvement of Flow Performance Indicator



Improvement of Life-time



The chart shows that the response time of the solenoid valve is within 25 milliseconds.
The response time of the solenoid valve is minor difference after 40 million lifetime tests.

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

J4V100 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV



J3V110-06



4A110-06



J4V110-06



J4V120-06



J4V130-06

Ordering Code

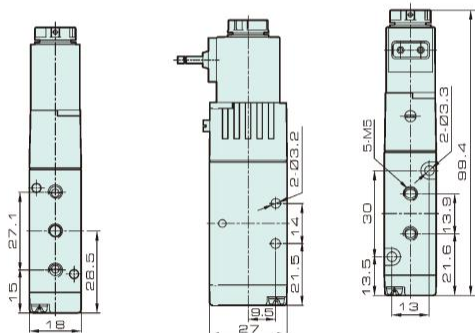
J4V	1	10	06	B	AC220V	W	F
Specification	Series Code	Coil and Type	Port Size	Connection and Initial status	Standard Voltage	Wiring	Joint
J4V: 5/2 (3) way solenoid valve 4A: 5/2 (3) way air pilot valve J3V: 3/2 way solenoid valve 3A: 3/2 way air pilot valve	100 Series	10: Single coil 20: Double coil 30C: Mid-position closed 30E: Mid-position exhausted 30P: Mid-position pressed	M5: M5×0.8 06: 1/8"	Blank: Threaded B: Sub-plated mounted (for 5/2,5/3 way only) NC: 3/2 way normal close NO: 3/2 way normal open	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz	Blank: Brown with light terminal W: Lead wire	1F-20F

Specification

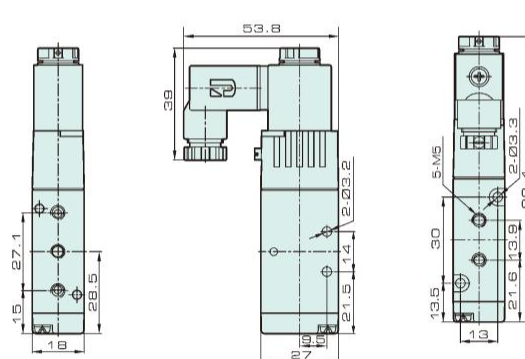
Model	J4V110-M5	J4V120-M5	J4V130C-M5	J4V130E-M5	J4V130P-M5	J4V110-06	J4V120-06	J4V130C-06	J4V130E-06	J4V130P-06
	4A110-M5	4A120-M5	4A130C-M5	4A130E-M5	4A130P-M5	4A110-06	4A120-06	4A130C-06	4A130E-06	4A130P-06
Valve Type	5/2 way		5/3 way			5/2 way		5/3 way		
Effective Cross Section Area	10mm ² (CV=0.56)		7mm ² (CV=0.40)			12mm ² (CV=0.67)		9mm ² (CV=0.5)		
Model	J3V110-M5	J3V120-M5	3A110-M5	3A120-M5	J3V110-06		J3V120-06	3A110-06	3A120-06	
Valve Type	3/2 way									
Effective Cross Section Area	10mm ² (CV=0.56)					12mm ² (CV=0.67)				
Port Size	Inlet, Outlet, Exhaust Port = M5 × 0.8					Inlet, Outlet, Exhaust Port = G 1/8"				
Working Medium	40 Micron Filtered Air									
Operation	Internal piloted									
Working Pressure	0.15 ~ 0.8MPa									
Max. Test Pressure	1.2MPa									
Ambient Temperature	-20 ~ 70°C									
Operating Voltage Tolerance	±10%									
Power Consumption	AC: 2.5VA DC: 2.5W									
Connector Protection	F Class, IP 65									
Wiring / Connector	Cable / Lead Wire or DIN Connector									
Switching Frequency	5 Cycles / Sec.									
Response Time	0.05 Sec.									

Overall Dimension

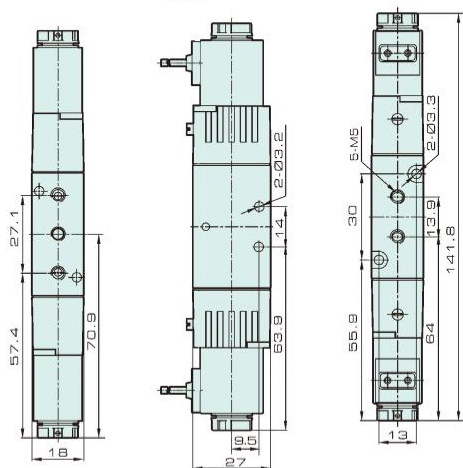
J4V110-M5



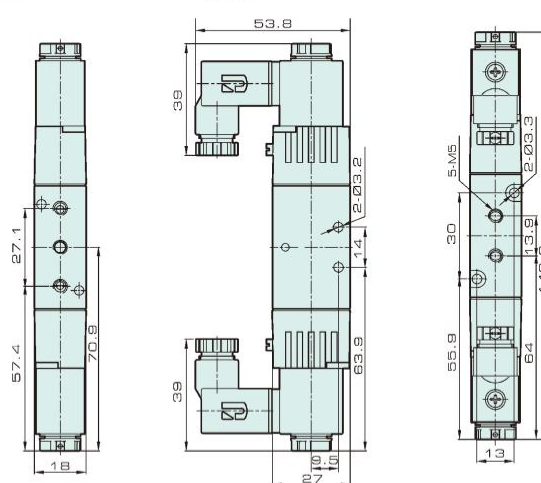
J4V110-M5



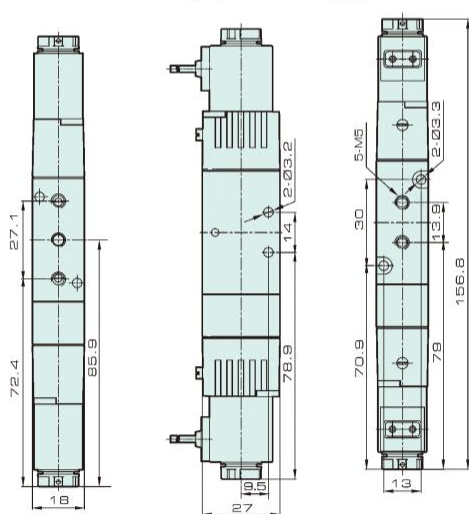
J4V120-M5



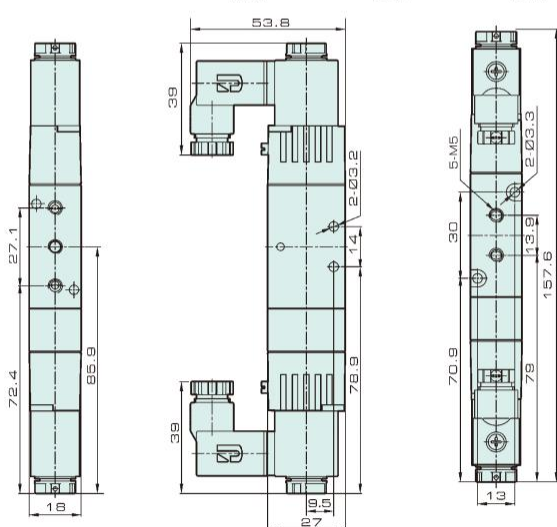
J4V120-M5



J4V130-M5



J4V130-M5



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

J4V100 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

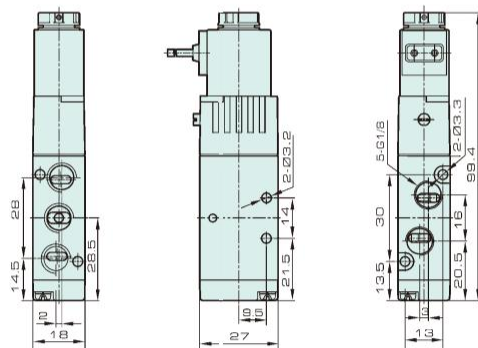
QE, QEA

ST

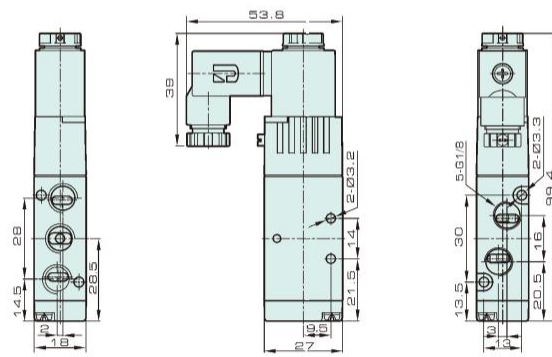
HSV

Overall Dimension

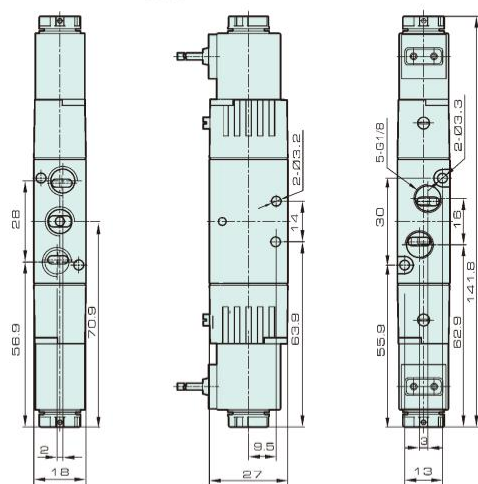
J4V110-06



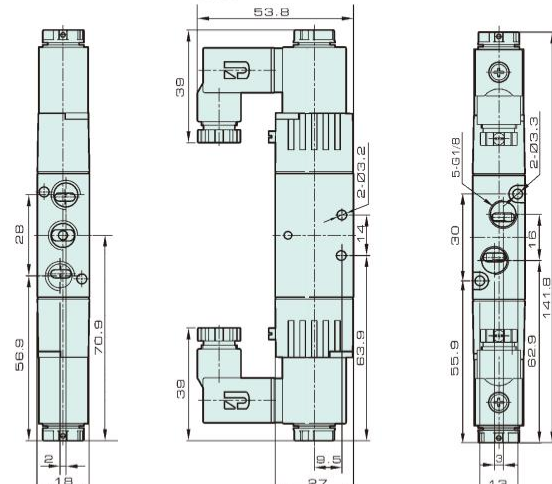
J4V110-06



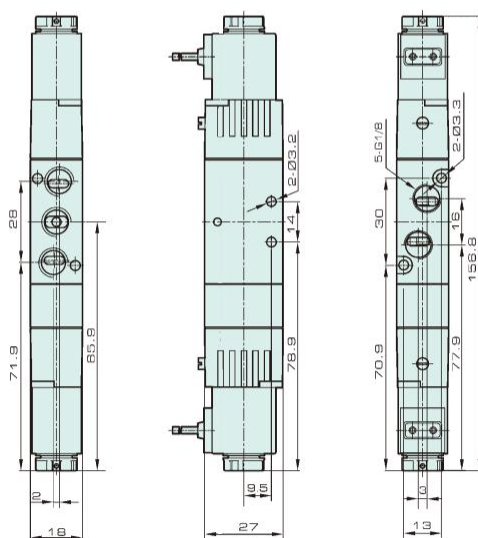
J4V120-06



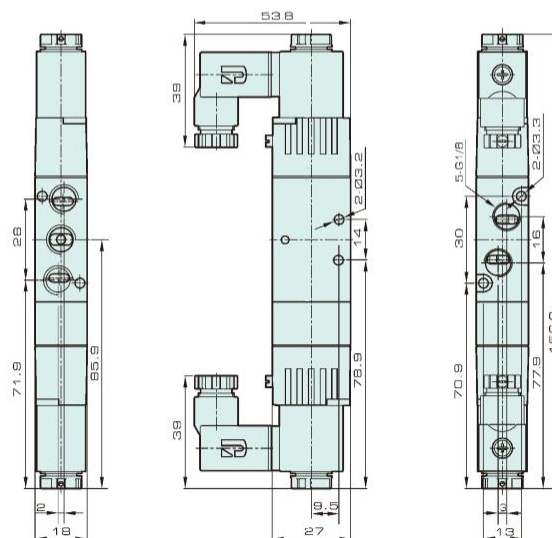
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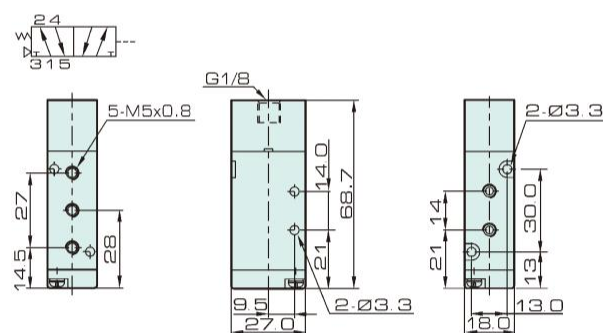
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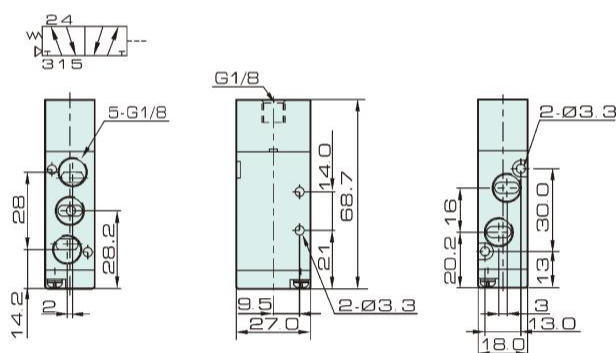
J4V130-06



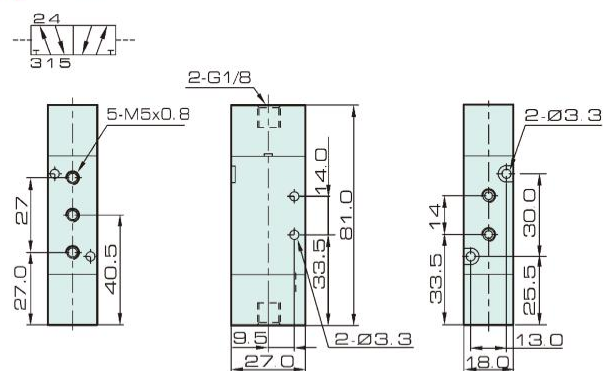
4A110-M5



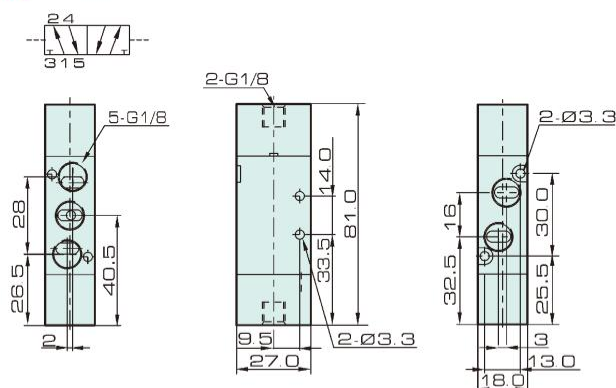
4A110-06



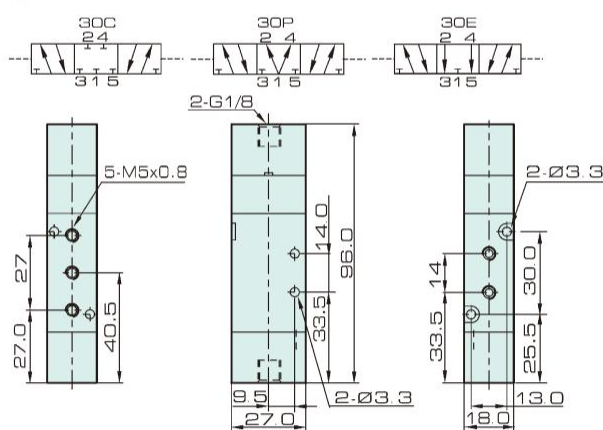
4A120-M5



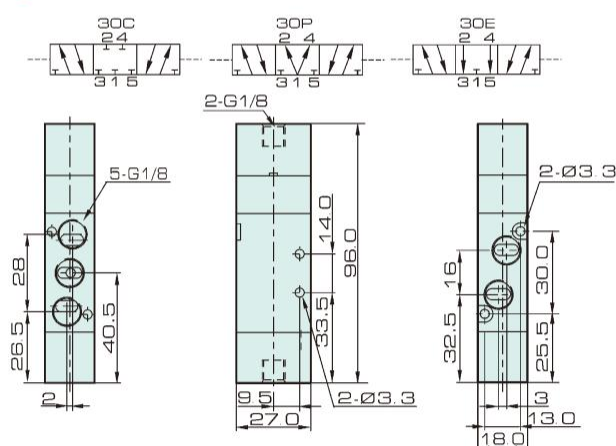
4A120-06



4A130-M5



4A130-06



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

J4V100 Series

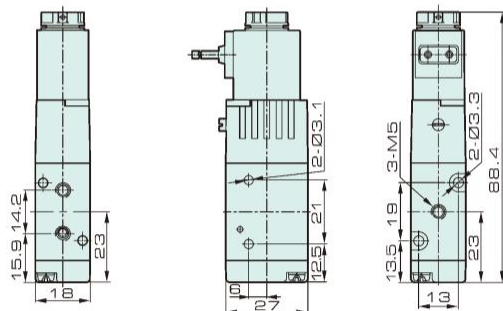
Solenoid Valve, Air Pilot Valve



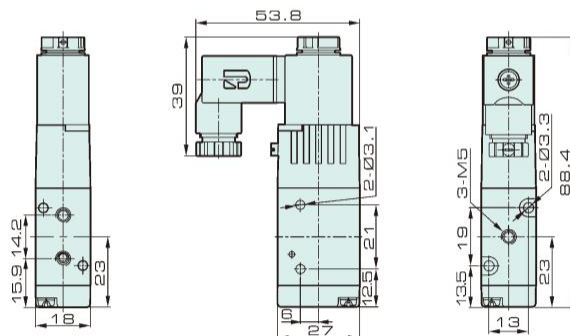
Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

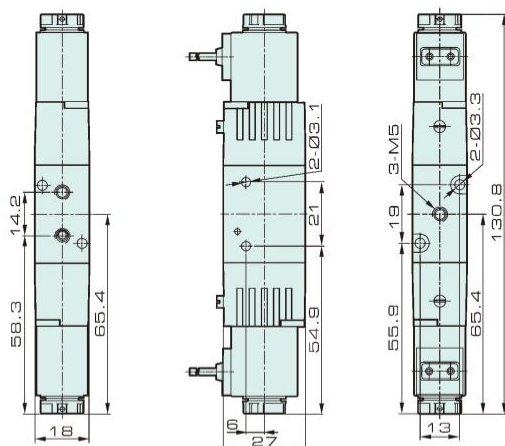
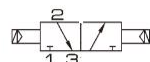
J3V110-M5



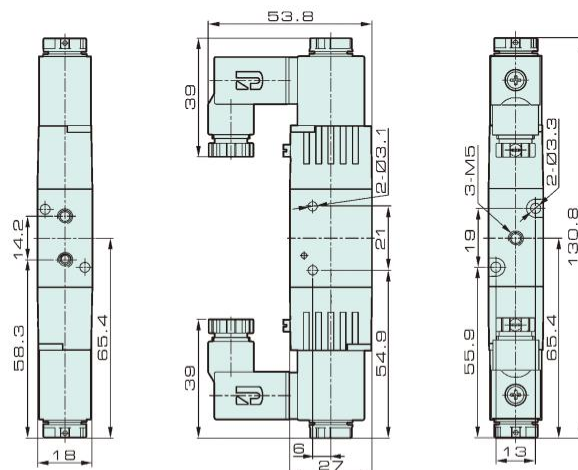
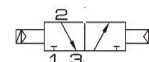
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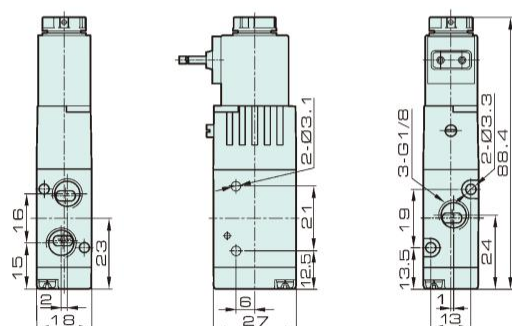
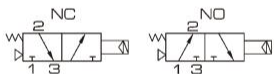
J3V120-M5



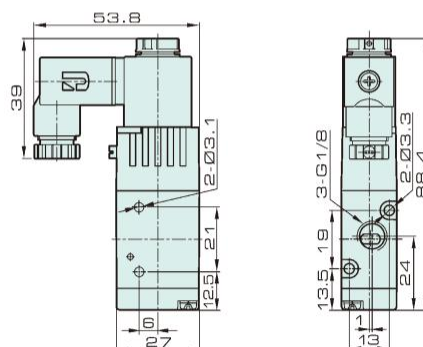
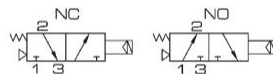
J3V120-M5



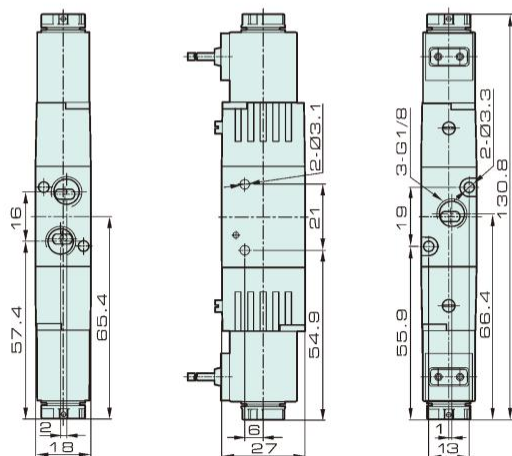
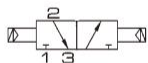
J3V110-06



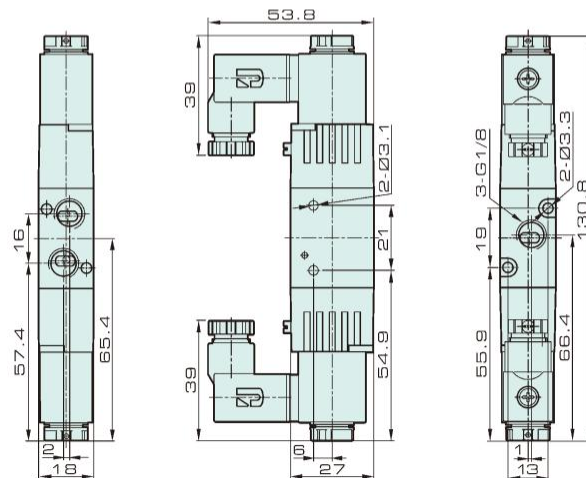
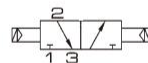
J3V110-06



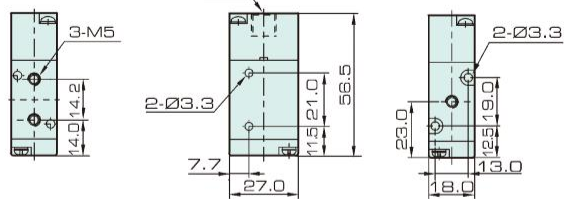
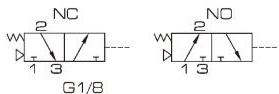
J3V120-06



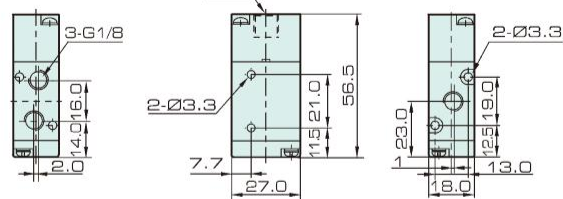
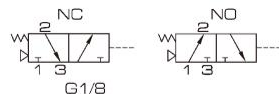
J3V120-06



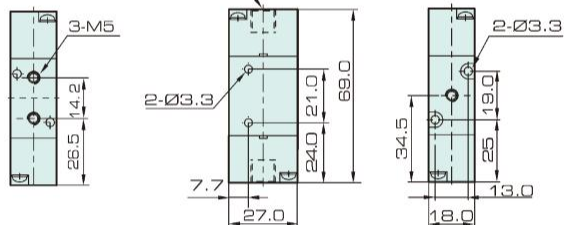
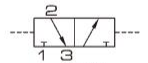
3A110-M5



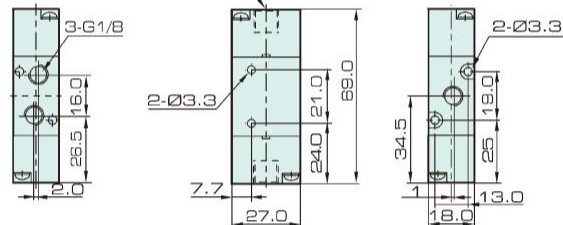
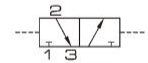
3A110-06



3A120-M5



3A120-06



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

J4V200 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV



4A210-08



J3V210-08



J4V210-08



J4V220-08



J4V230C-08

Ordering Code

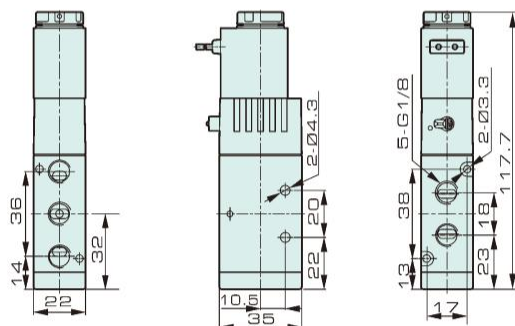
J4V	2	10	08	B	AC220V	W	F
I	I	I	I	I	I	I	I
Specification	Series Code	Coil and Type	Port Size	Connection and Initial status	Standard Voltage	Wiring	Joint
J4V: 5/2 (3) way solenoid valve	200Series	10: Single coil	06: 1/8"	Blank: Threaded	DC12V DC24V	Blank: Brown with light terminal	1F-20F
4A: 5/2 (3) way air pilot valve		20: Double coil	08: 1/4"	B: Sub-plated mounted	AC24V 50Hz/60Hz	W: Lead wire	
J3V: 3/2 way solenoid valve		30C: Mid-position closed		(for 5/2, 5/3 way only)	AC110V 50Hz/60Hz		
3A: 3/2 way air pilot valve		30E: Mid-position exhausted		NC: 3/2 way normal close	AC220V 50Hz/60Hz		
		30P: Mid-position pressed		NO: 3/2 way normal open			

Specification

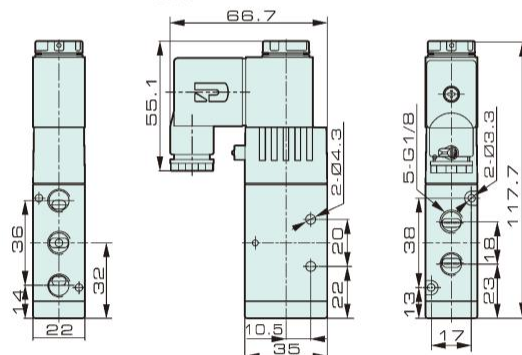
Model	J4V210-06	J4V220-06	J4V230C-06	J4V230E-06	J4V230P-06	J4V210-08	J4V220-08	J4V230C-08	J4V230E-08	J4V230P-08
	4A210-06	4A220-06	4A230C-06	4A230E-06	4A230P-06	4A210-08	4A220-08	4A230C-08	4A230E-08	4A230P-08
Valve Type	5/2 way		5/3 way			5/2 way		5/3 way		
Effective Cross Section Area	14mm ² (CV=0.78)		12mm ² (CV=0.67)			16mm ² (CV=0.89)		12mm ² (CV=0.67)		
Model	J3V210-06	J3V220-06	3A210-06	3A220-06	J3V210-08	J3V220-08	3A210-08	3A220-08		
Valve Type	3/2 way									
Effective Cross Section Area	14mm ² (CV=0.78)					16mm ² (CV=0.89)				
Port Size	Inlet, Outlet, Exhaust Port = G 1/8"					Inlet, Outlet = G 1/4", Exhaust Port = G 1/8"				
Working Medium	40 Micron Filtered Air									
Operation	Internal piloted									
Working Pressure	0.15 ~ 0.8MPa									
Max. Test Pressure	1.2MPa									
Ambient Temperature	-20 ~ 70°C									
Operating Voltage Tolerance	±10%									
Power Consumption	AC: 3.5VA DC: 3.0W									
Connector Protection	F Class, IP 65									
Wiring / Connector	Cable / Lead Wire or DIN Connector									
Switching Frequency	5 Cycles / Sec.									
Response Time	0.05秒									

Overall Dimension

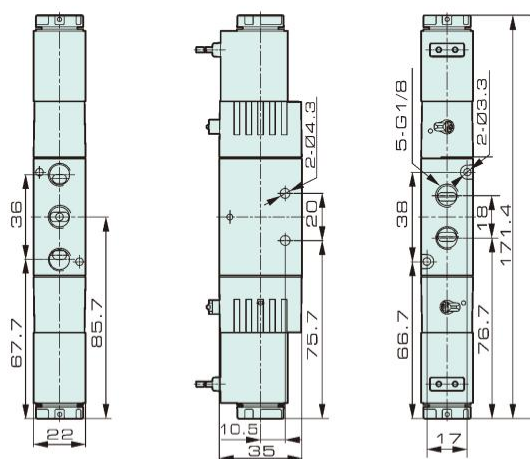
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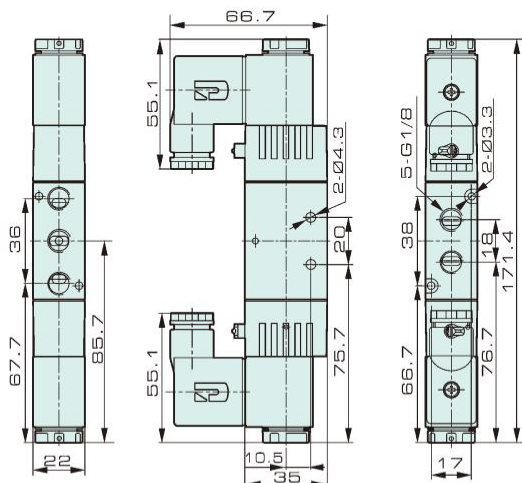
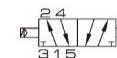
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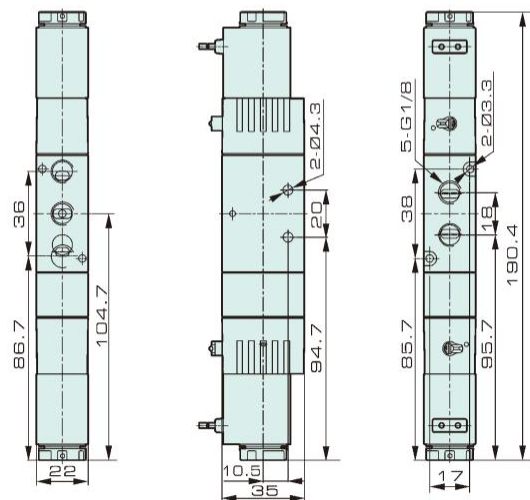
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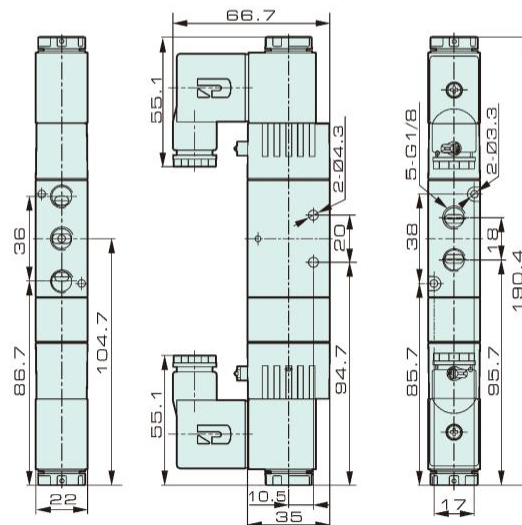
J4V220-06



J4V230-06



J4V230-06



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

J4V200 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

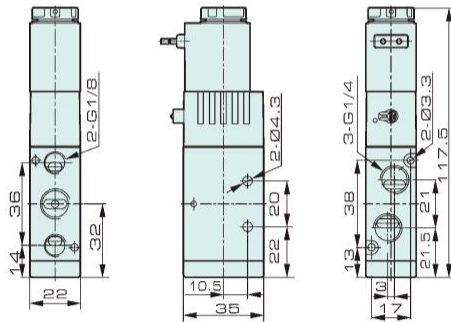
QE, QEA

ST

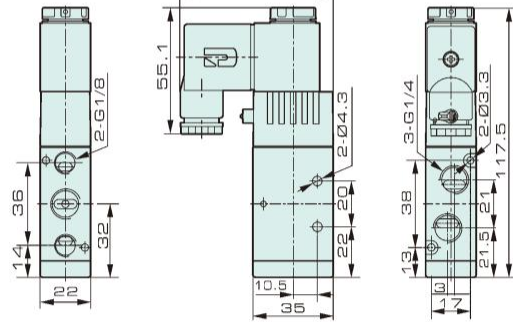
HSV

Overall Dimension

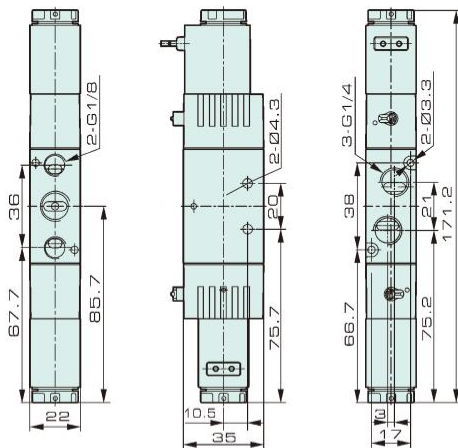
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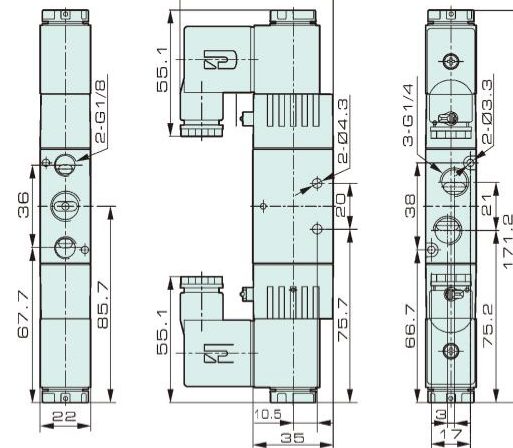
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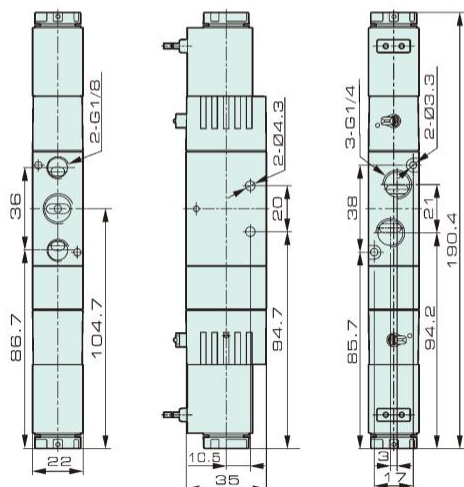
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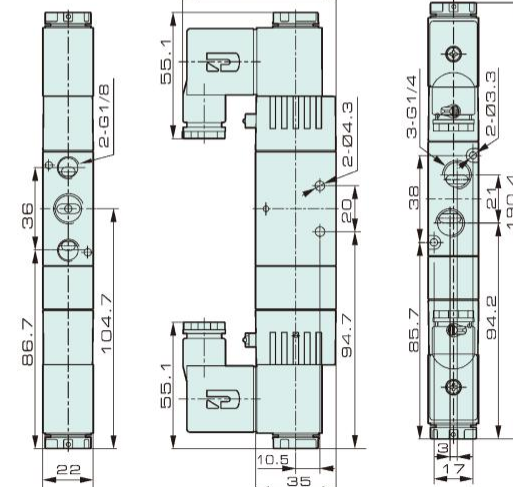
J4V220-08



J4V230-08



J4V230-08



J4V200 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

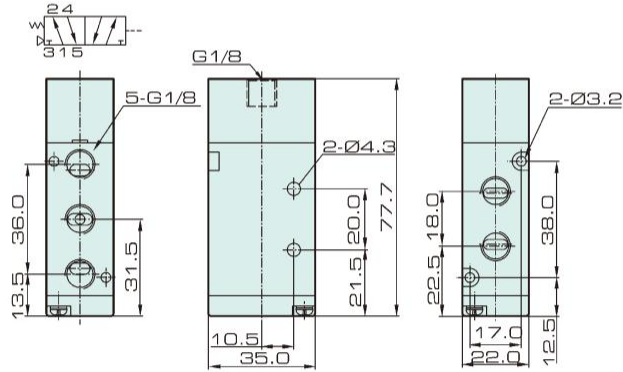
ASC, RE

QE, QEA

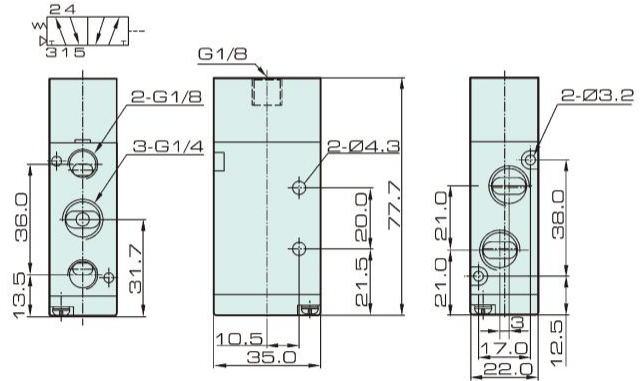
ST

HSV

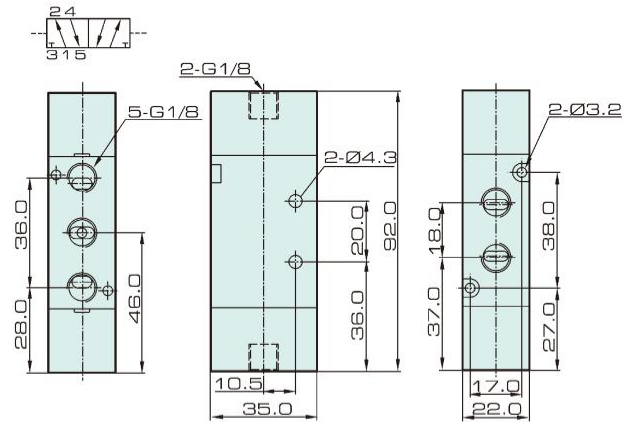
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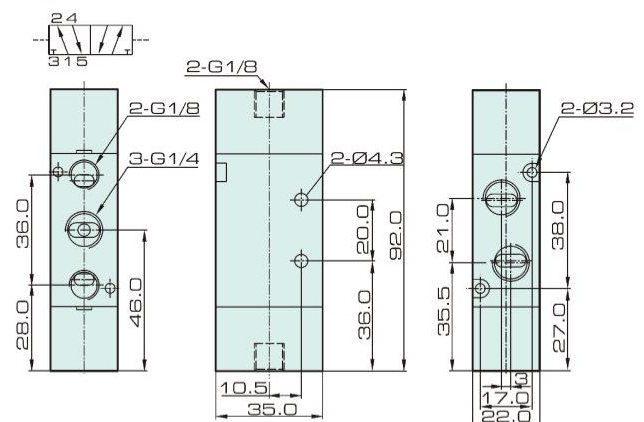
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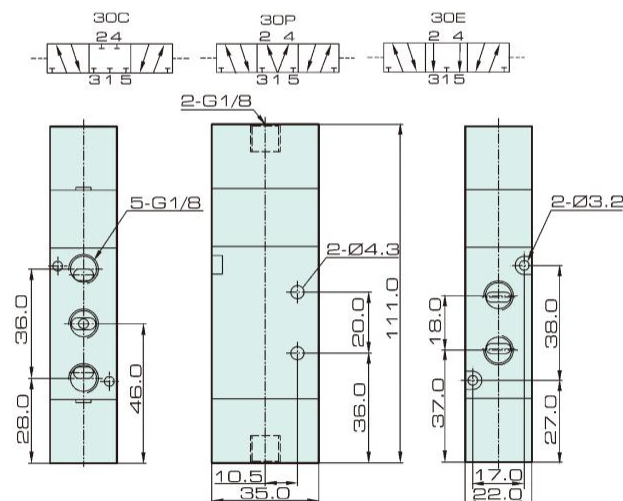
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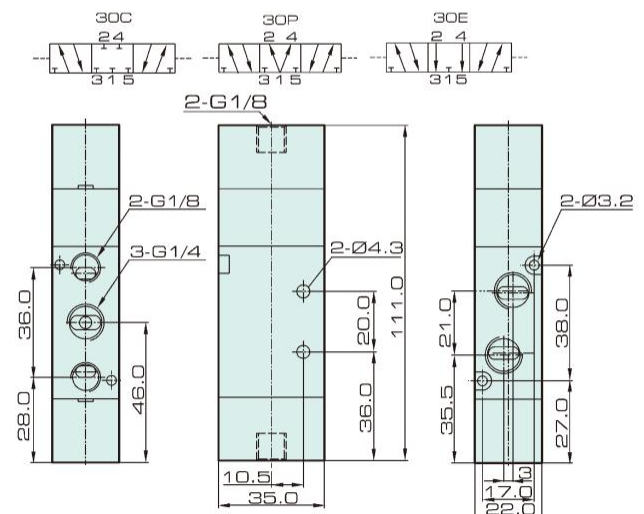
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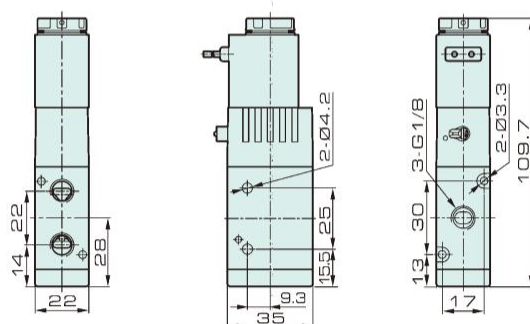
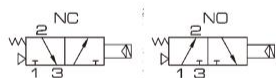
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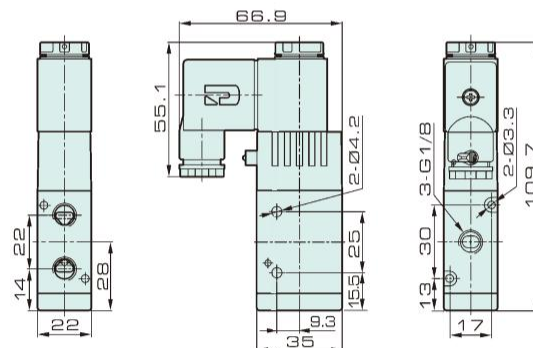
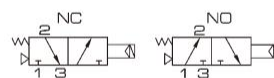
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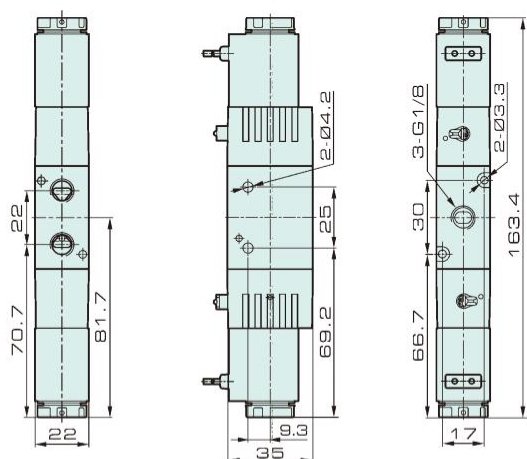
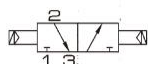
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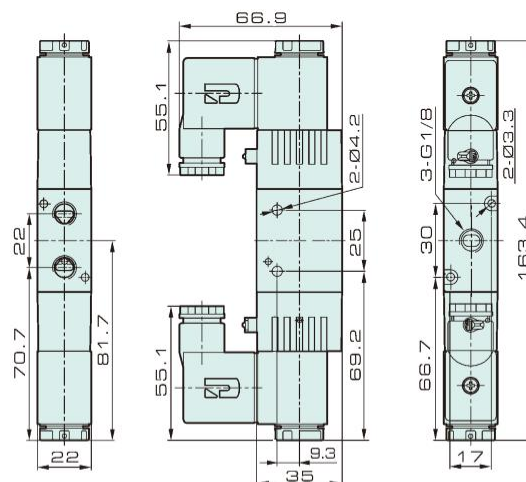
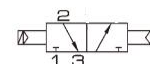
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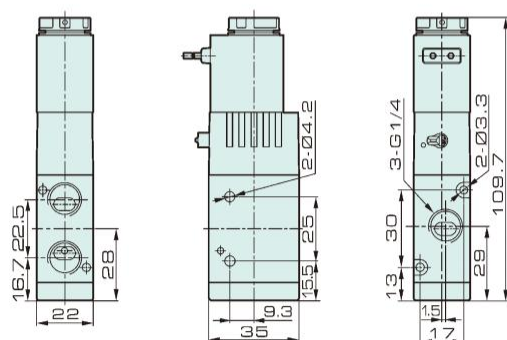
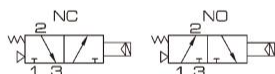
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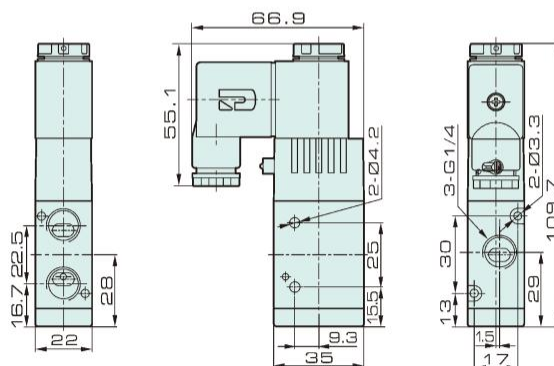
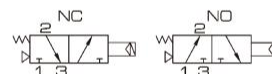
J3V220-06



J3V210-08



J3V210-08



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

J4V200 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

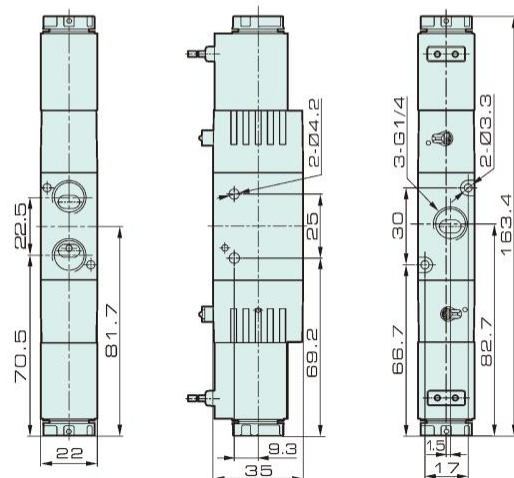
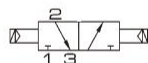
ASC, RE

QE, QEA

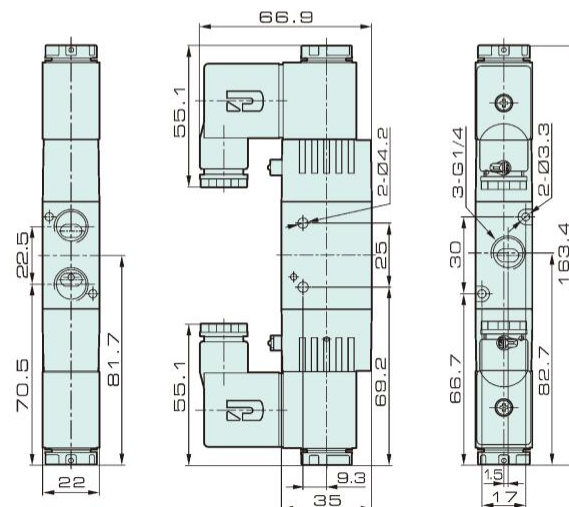
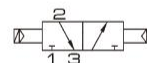
ST

HSV

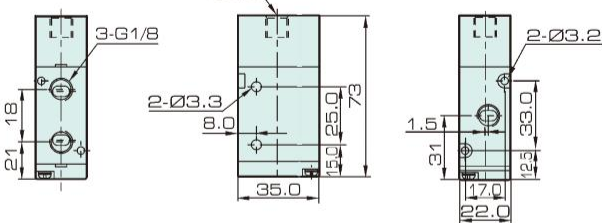
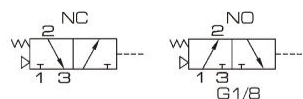
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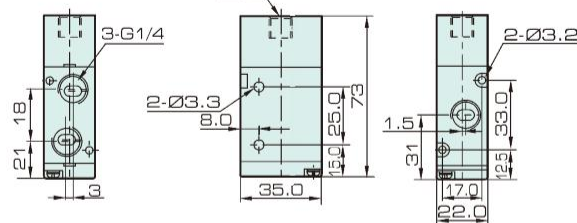
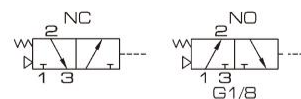
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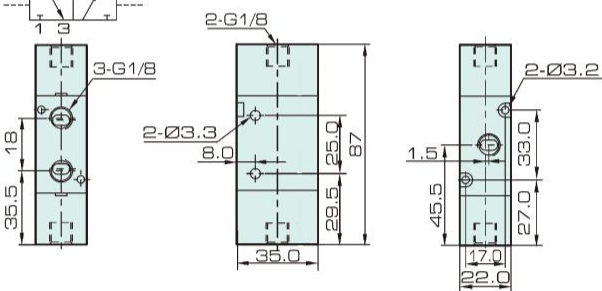
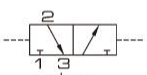
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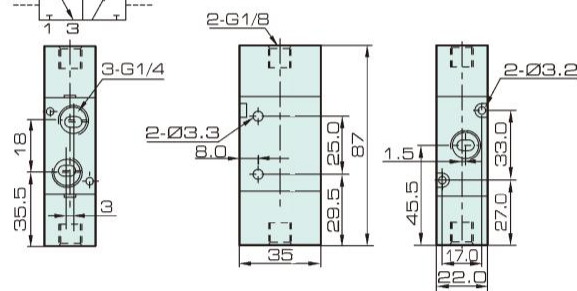
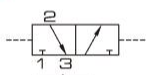
3A210-08



3A220-06



3A220-08



J4V300 Series

Solenoid Valve, Air Pilot Valve



4A310-10



J4V310-10



J4V310-10B



J4V320-10



J4V330C-10

Ordering Code

J4V	3	10	10	B	AC220V	W	F
Specification	Series Code	Coil and Type	Port Size	Connection and Initial status	Standard Voltage	Wiring	Joint
J4V: 5/2 (3) way solenoid valve	300 Series	10: Single coil	08: 1/4"	Blank: Threaded	DC12V DC24V	Blank: Brown with light terminal	1F-20F
4A: 5/2 (3) way air pilot valve		20: Double coil	10: 3/8"	B: Sub-plated mounted (for 5/2, 5/3 way only)	AC24V 50Hz/60Hz	W: Lead wire	
J3V: 3/2 way solenoid valve		30C: Mid-position closed		NC: 3/2 way normal close	AC110V 50Hz/60Hz		
3A: 3/2 way air pilot valve		30E: Mid-position exhausted		NO: 3/2 way normal open	AC220V 50Hz/60Hz		
		30P: Mid-position pressed					

Specification

Model	J4V310-08	J4V320-08	J4V330C-08	J4V330E-08	J4V330P-08	J4V310-10	J4V320-10	J4V330C-10	J4V330E-10	J4V330P-10
	4A310-08	4A320-08	4A330C-08	4A330E-08	4A330P-08	4A310-10	4A320-10	4A330C-10	4A330E-10	4A330P-10
Valve Type	5/2 way		5/3 way			5/2 way		5/3 way		
Effective Cross Section Area	25mm ² (CV=1.40)		18mm ² (CV=1.00)			30mm ² (CV=1.68)		18mm ² (CV=1.00)		
Model	J3V310-08	J3V320-08	3A310-08	3A320-08		J3V310-10	J3V320-10	3A310-10	3A320-10	
Valve Type						3/2 way				
Effective Cross Section Area	25mm ² (CV=1.40)					30mm ² (CV=1.68)				
Port Size	Inlet, Outlet, Exhaust Port = G 1/4"					Inlet, Outlet = G 3/8" Exhaust Port = G 1/4"				
Working Medium	40 Micron Filtered Air									
Operation	Internal piloted									
Working Pressure	0.15 ~ 0.8MPa									
Max. Test Pressure	1.2MPa									
Ambient Temperature	-20 ~ 70℃									
Operating Voltage Tolerance	±10%									
Power Consumption	AC: 3.5VA DC: 3.0W									
Connector Protection	F Class, IP 65									
Wiring / Connector	Cable / Lead Wire or DIN Connector									
Switching Frequency	5 Cycles / Sec.									
Response Time	0.05秒									

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

J4V300 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

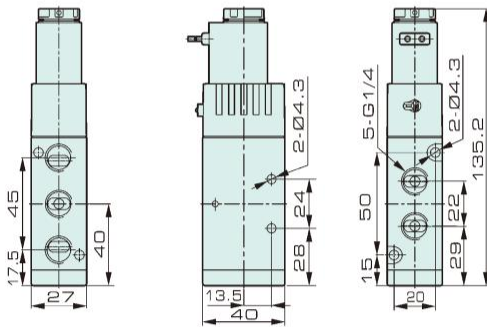
QE, QEA

ST

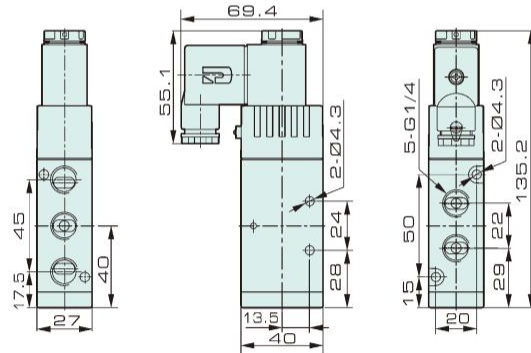
HSV

Overall Dimension

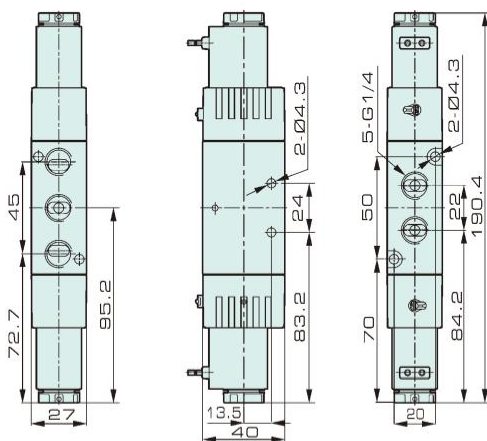
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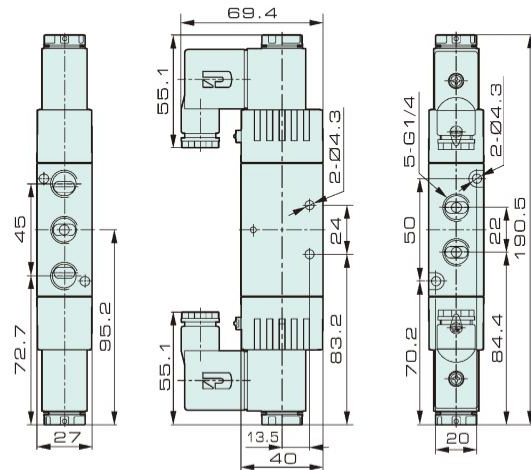
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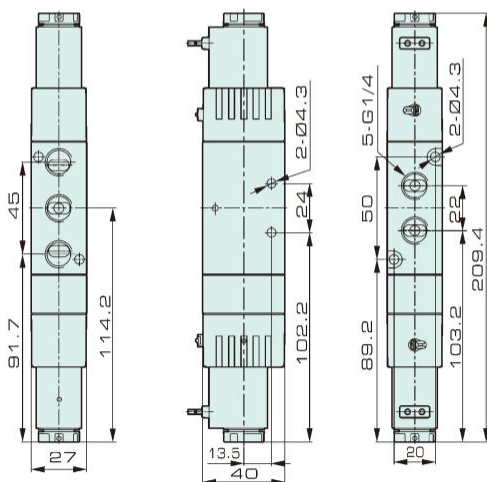
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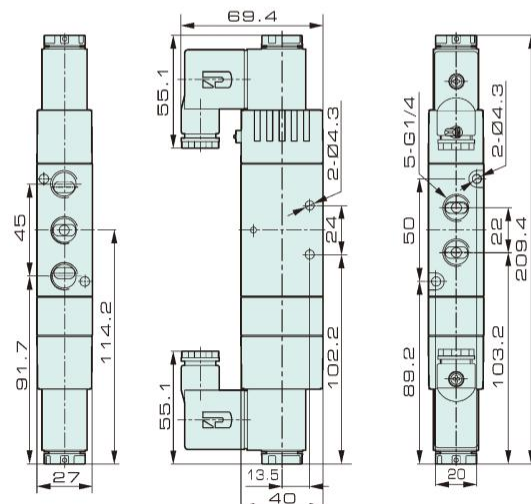
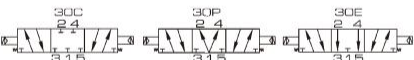
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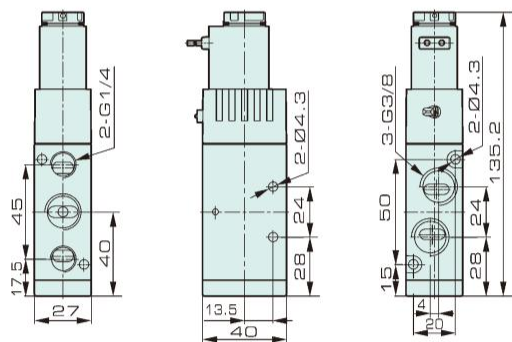
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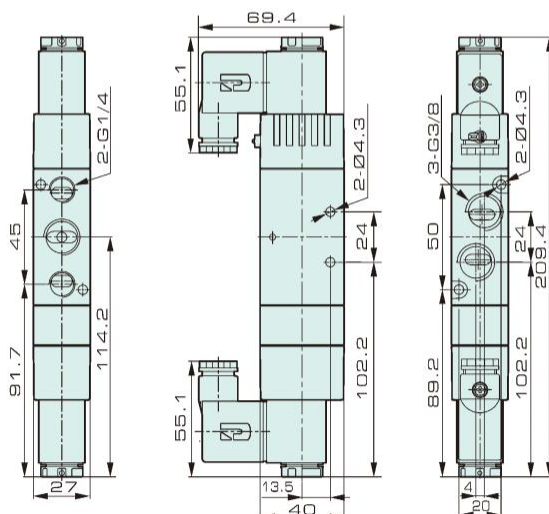
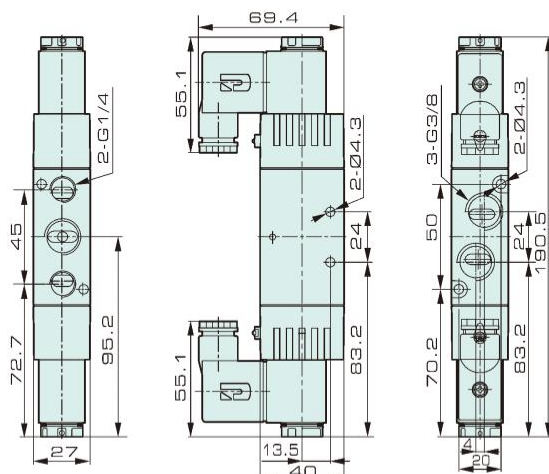
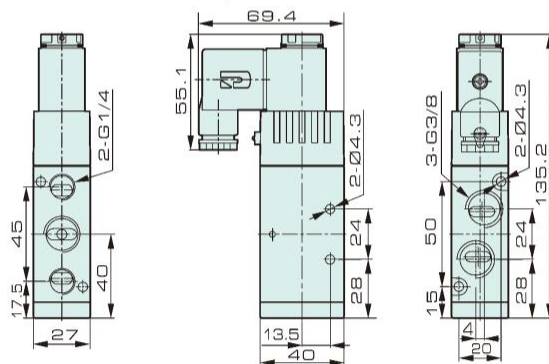
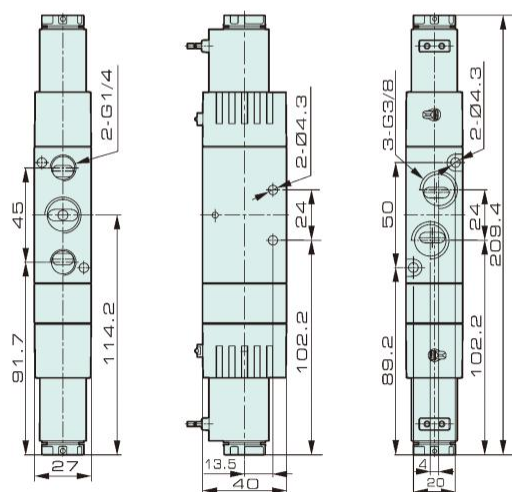
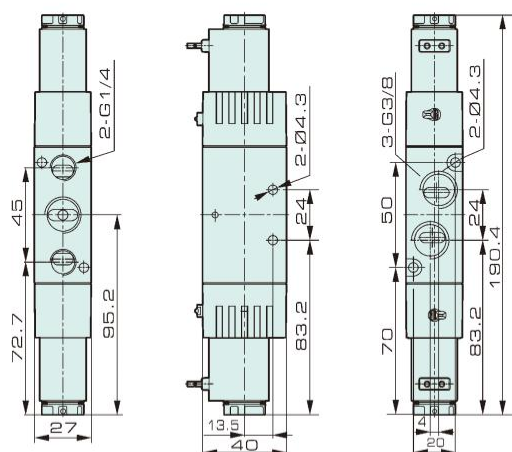
J4V330-08



J4V310-10



A diagram of a 2D hexagonal lattice. The lattice consists of six hexagonal cells arranged in a horizontal row. Each cell contains an arrow pointing from left to right. The arrows in the first and third cells are straight, while the arrows in the second, fourth, and fifth cells are bent. Above the first cell is the number '2', above the second cell is '4', and above the third cell is '2'. Below the first cell is '3', below the second cell is '1', and below the third cell is '5'. The lattice is connected to two external nodes on the left and right, each represented by a circle with a cross inside.



HSV

J4V300 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

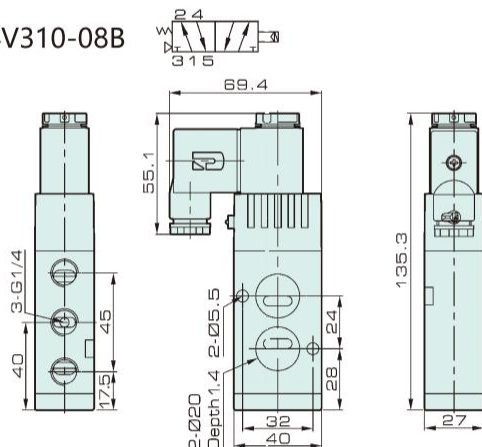
ASC, RE

QE, QEA

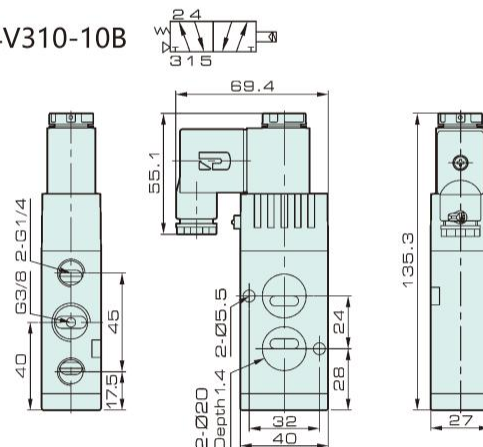
ST

HSV

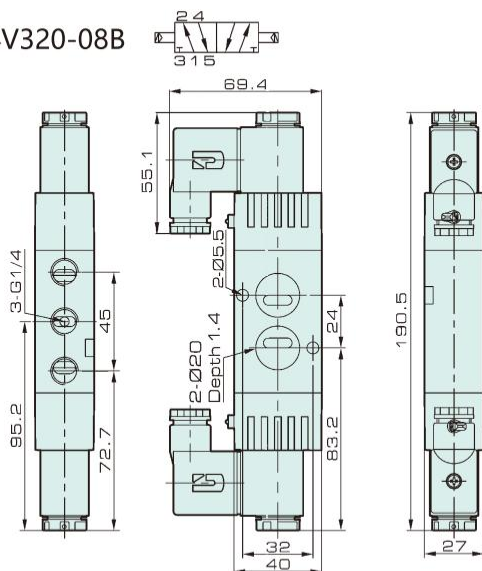
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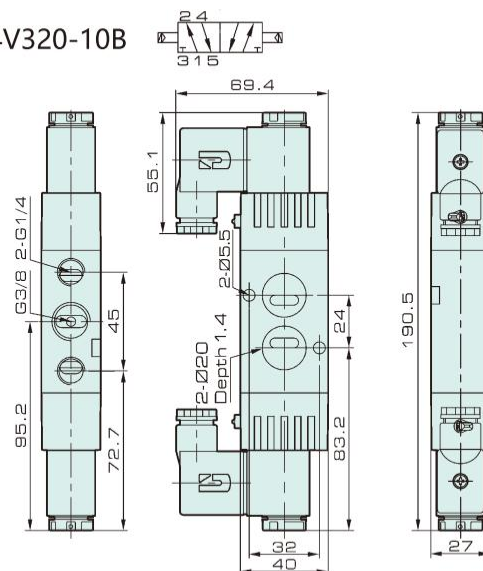
J4V310-10B



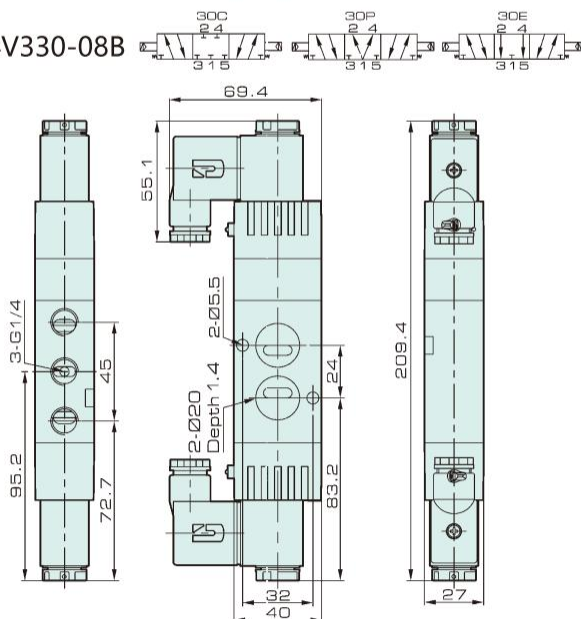
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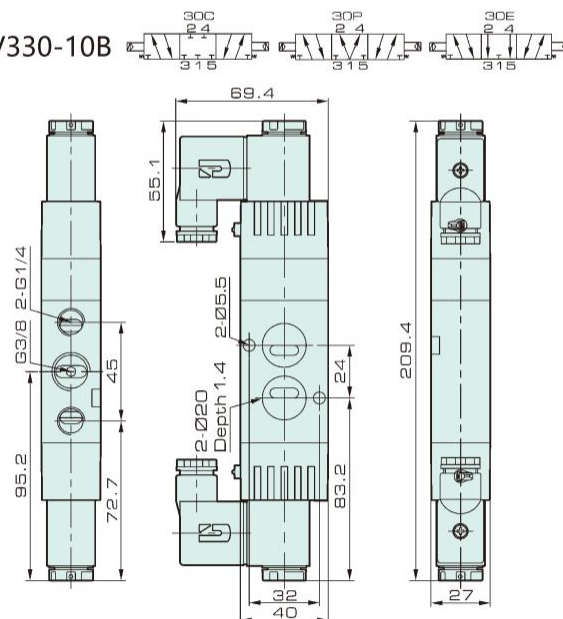
J4V320-10B



J4V330-08B



J4V330-10B



J4V300 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

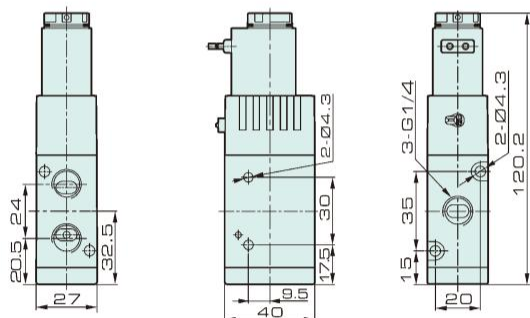
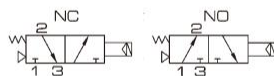
ASC, RE

QE, QEA

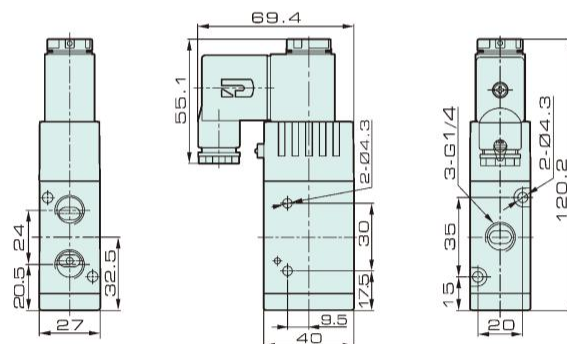
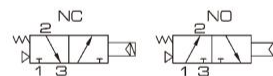
ST

HSV

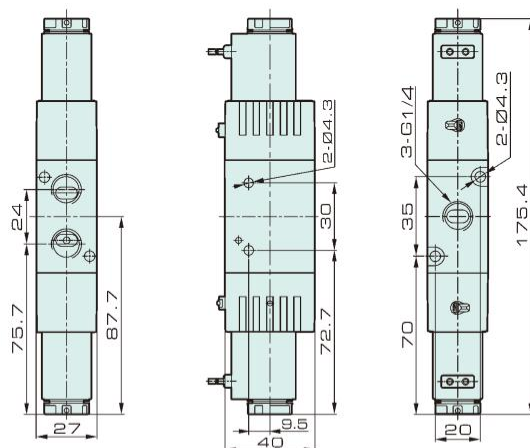
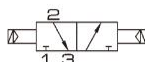
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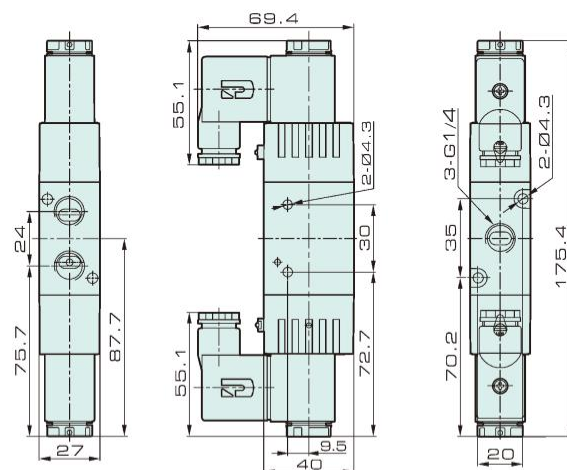
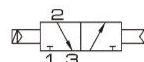
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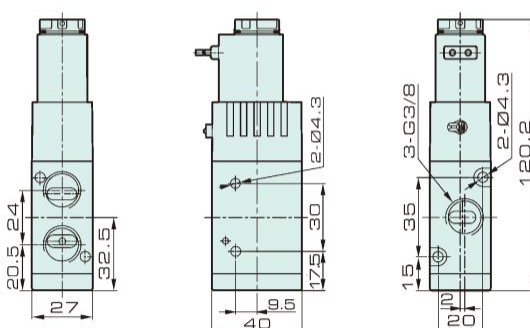
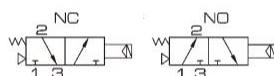
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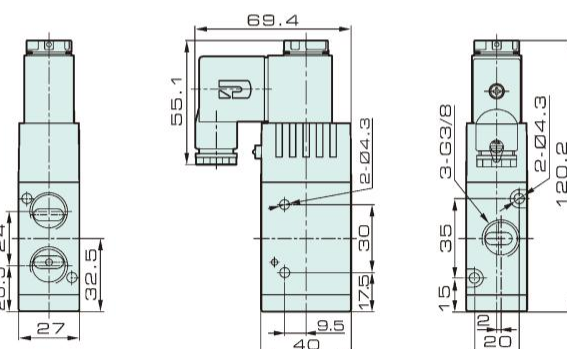
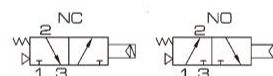
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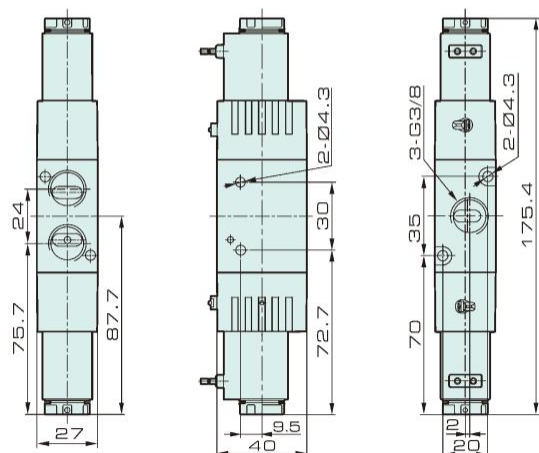
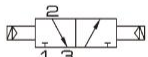
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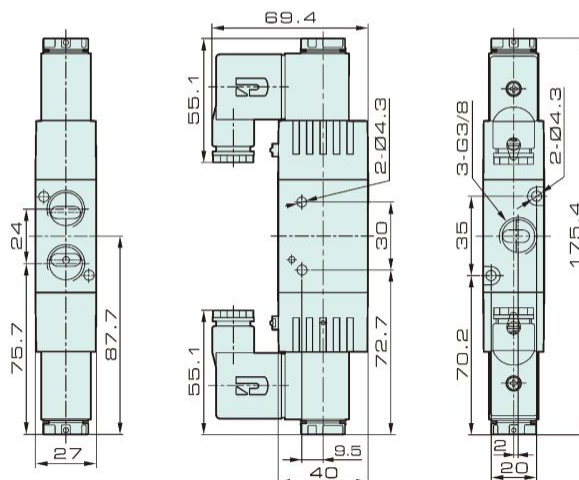
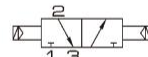
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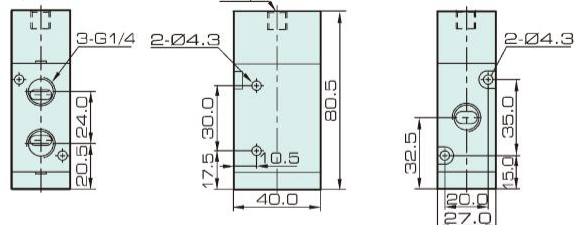
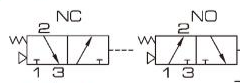
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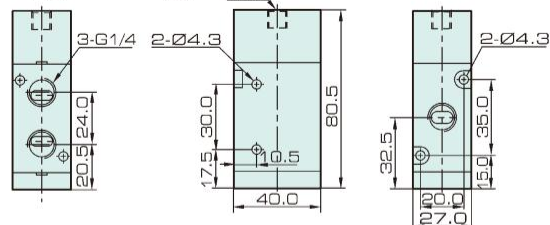
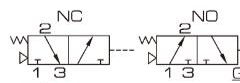
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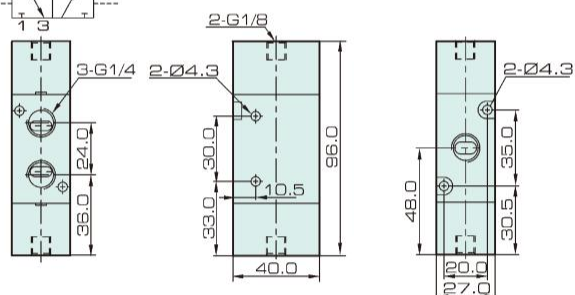
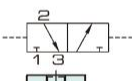
3A310-08



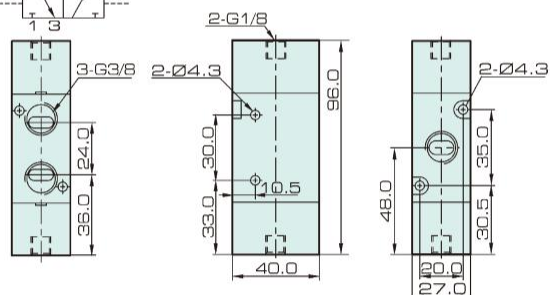
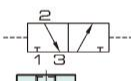
3A310-10



3A320-08



3A320-10



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

J4V400 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV



J3V410-15



4A410-15



J4V410-15



J4V420-15



J4V430C-15

Ordering Code

J4V	4	10	15	B	AC220V	W	F
Specification	Series Code	Coil and Type	Port Size	Connection and Initial status	Standard Voltage	Wiring	Joint
J4V: 5/2 (3) way solenoid valve	400 Series	10: Single coil	15: 1/2"	Blank: Threaded	DC12V DC24V	Blank: Brown With light terminal	1F-20F
4A: 5/2 (3) way air pilot valve		20: Double coil		B: Sub-plated mounted (for 5/2,5/3 way only)	AC24V 50Hz/60Hz	W: Lead wire	
J3V: 3/2 way solenoid valve		30C: Mid-position closed		NC: 3/2 way normal close	AC110V 50Hz/60Hz		
3A: 3/2 way air pilot valve		30E: Mid-position exhausted		NO: 3/2 way normal open	AC220V 50Hz/60Hz		
		30P: Mid-position pressed					

Specification

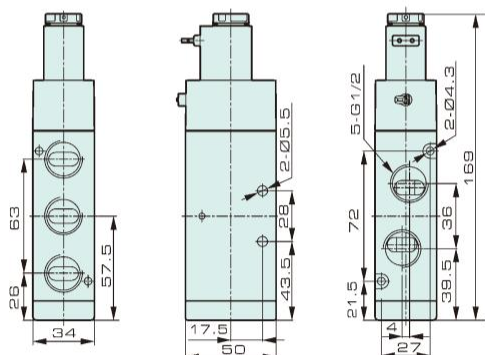
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	4A410-15	4A420-15	4A430C-15	4A430E-15	4A430P-15
Valve Type	5/2 Way		5/3 Way		
Effective Cross Section Area	50mm ² (CV=2.79)		30mm ² (CV=1.68)		
Model	J3V410-15	J3V420-15	3A410-15	3A420-15	
Valve Type	3/2 Way				
Effective Cross Section Area	50mm ² (CV=2.79)				
Port Size	Inlet, Outlet, Exhaust Port = G1/2"				
Working Medium	40 Micron Filtered Air				
Operation	Internal piloted				
Working Pressure	0.15 ~ 0.8MPa				
Max. Test Pressure	1.2MPa				
Ambient Temperature	-20 ~ 70°C				
Operating Voltage Tolerance	±10%				
Power Consumption	AC: 3.5VA DC: 3.0W				
Connector Protection	F Class, IP 65				
Wiring / Connector	Cable / Lead Wire or DIN Connector				
Switching Frequency	5 Cycles / Sec.				
Response Time	0.05 Sec.				

J4V400 Series

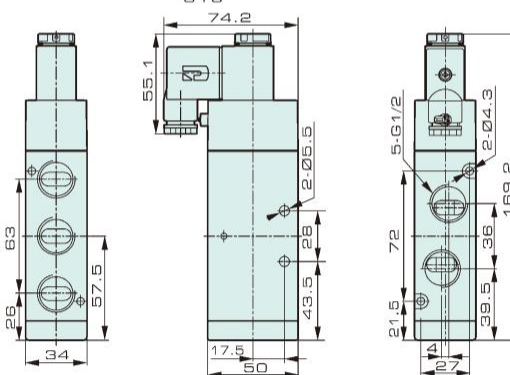
Solenoid Valve, Air Pilot Valve

Overall Dimension

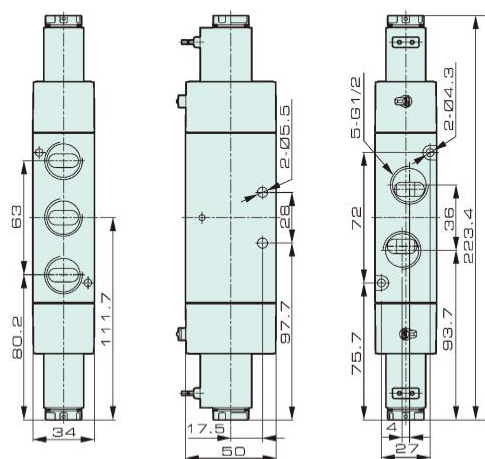
J4V410-15



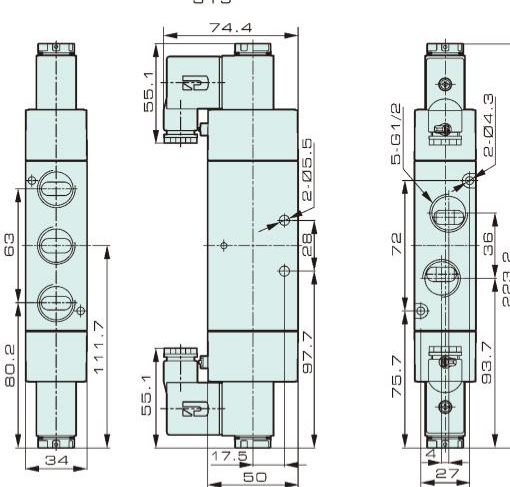
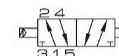
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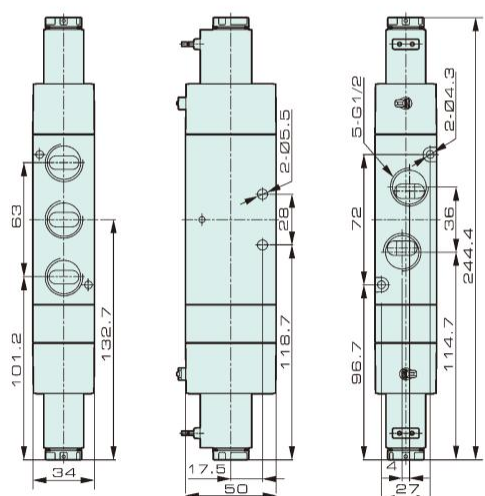
J4V420-15



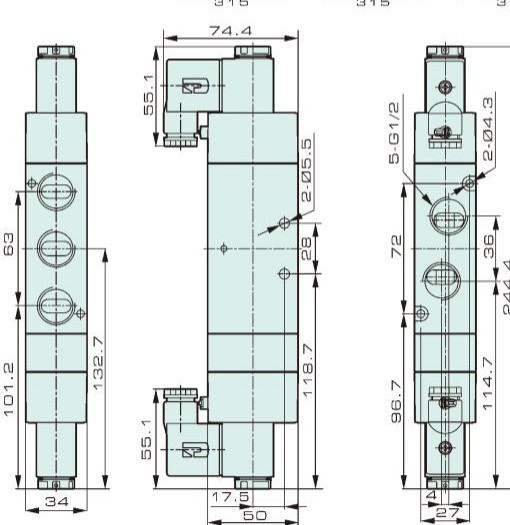
J4V420-15



J4V430-15



J4V430-15



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

J4V400 Series

Solenoid Valve, Air Pilot Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

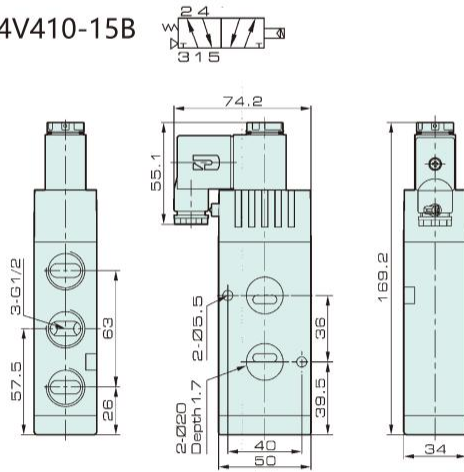
ASC, RE

QE, QEA

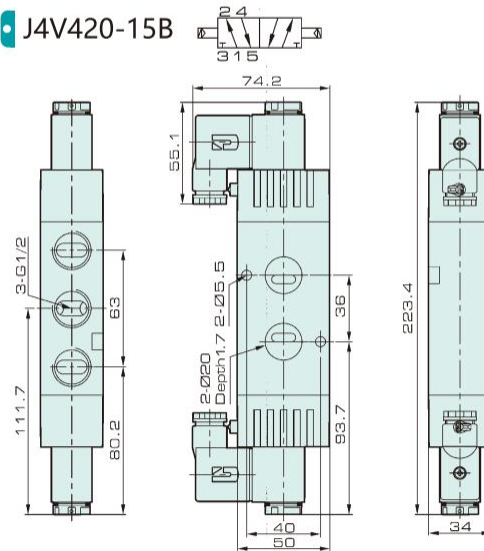
ST

HSV

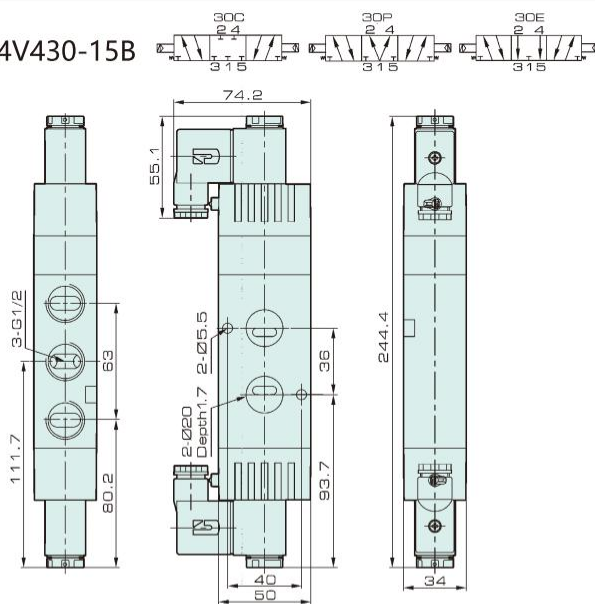
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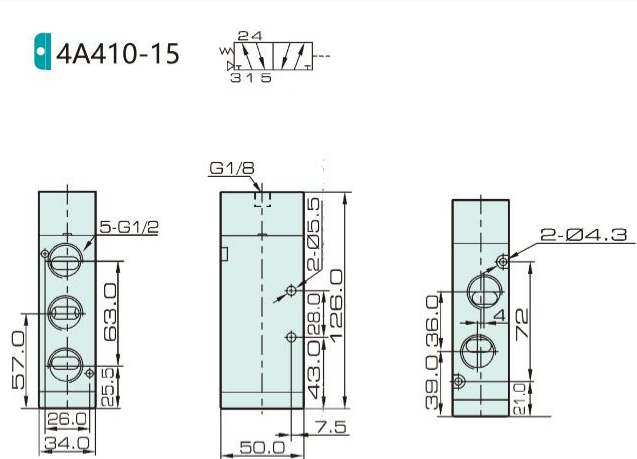
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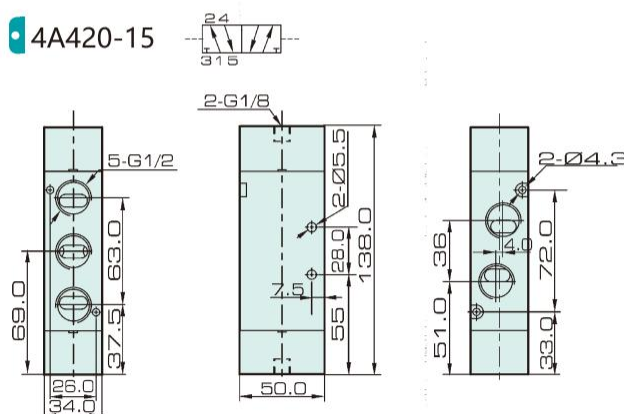
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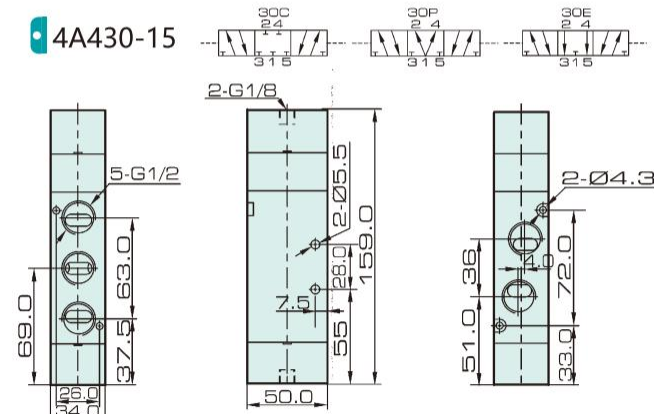
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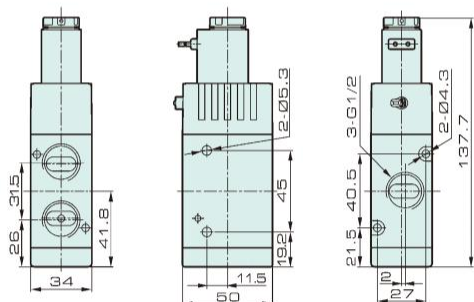
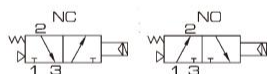
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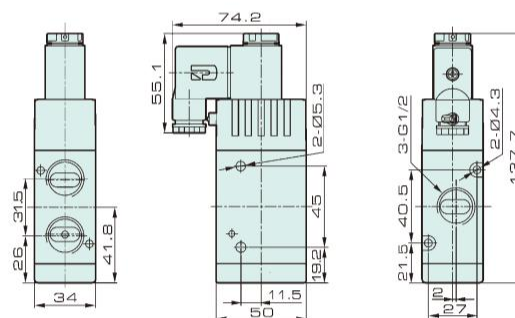
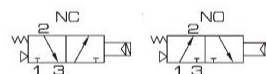
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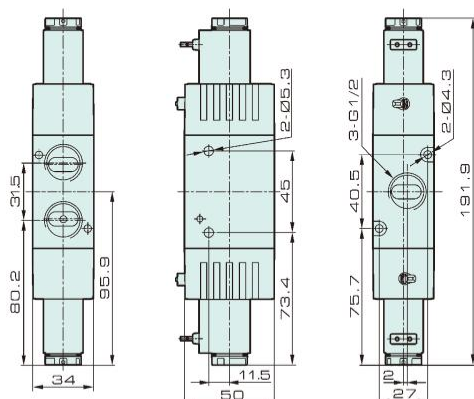
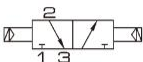
J3V410-15



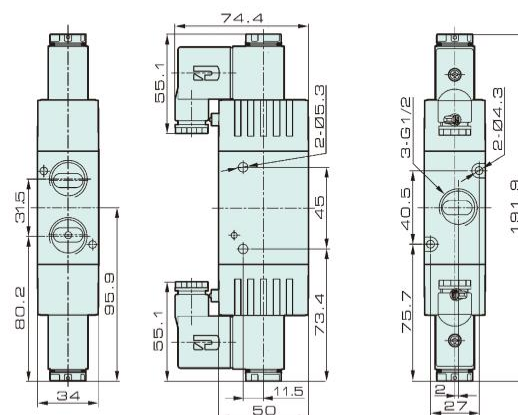
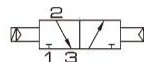
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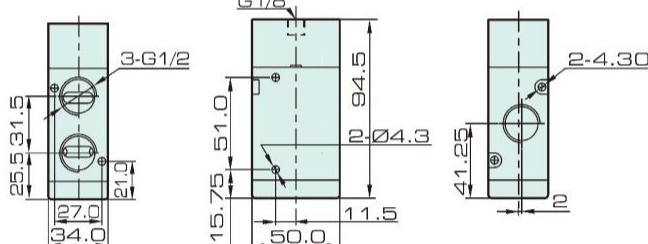
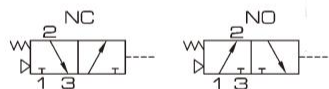
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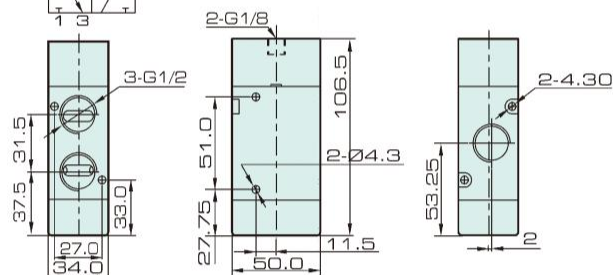
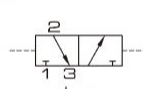
J3V420-15



3A410-15



3A420-15



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

100-400 Series Manifold



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

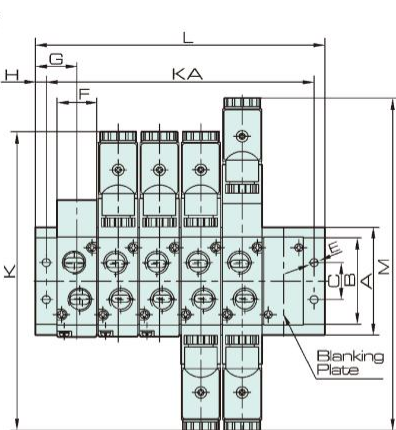
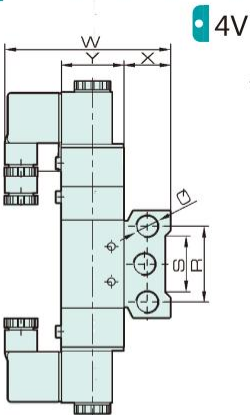
Base Ordering Code

□	100M	□F
Specification	Series Code	Joint
Blank: 4V Series	100M: Sub-plate for 100 series valves	100M: 1~20F
3V: 3V Series	200M: Sub-plate for 200 series valves	200M: 1~20F
	300M: Sub-plate for 300 series valves	300M: 1~20F
	400M: Sub-plate for 400 series valves	400M: 1~20F

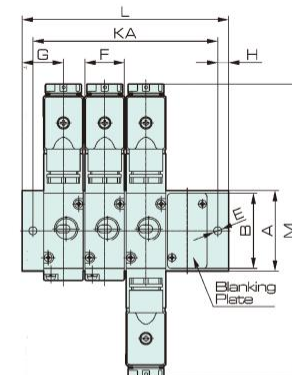
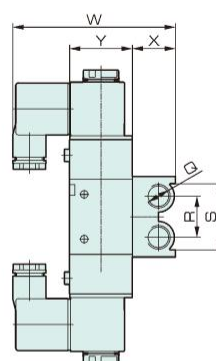
Accessory Ordering Code

□	200M	B
Specification	Series Code	Joint
Blank: 4V Series	100M: Sub-plate for 100 series valves	B : Blanking plate
3V: 3V Series	200M: Sub-plate for 200 series valves	C: Sealing gasket
	300M: Sub-plate for 300 series valves	D: Screw
	400M: Sub-plate for 400 series valves	

Overall Dimension



3V



Specification

Inside Dia./ Symbol	A	B	C	E	F	G	K	KA	L	M	Q	R	S	W	X	Y
4V-100M-□F	58	43	20	4.2	18.3	19	140	(n-1)*19+28	(n-1)*19+38	155	G1/4	40	30	78.5	25	27
4V-200M-□F	59	50	21	4.3	22.2	23	170	(n-1)*23+34	(n-1)*23+46	189	G1/4	43	32	92.5	26	35
4V-300M-□F	75	64	26	4.5	27.3	27	189	(n-1)*28+42	(n-1)*28+54	208	G3/8	53	48	99	30	40
4V-400M-□F	98	94	32	5.5	34.3	31.5	222	(n-1)*35+49	(n-1)*35+63	243	G1/2	68	67	112	38	50

Inside Dia./ Symbol	A	B	E	F	G	H	KA	L	M	Q	R	S	W	X	Y
3V-100M-□F	31	30	4.5	18	18.5	4.5	(n-1)*19+28	(n-1)*19+37	130.8	G1/8	17.5	25	72.8	19	27
3V-200M-□F	45	43	4.5	22	23	6	(n-1)*23+34	(n-1)*23+46	163.4	G1/4	23	37	90.9	24	35
3V-300M-□F	50	47	4.5	27	27	6	(n-1)*28+42	(n-1)*28+54	190.5	G3/8	29	42	97.4	28	40
3V-400M-□F	62.5	62.5	5.5	34	31.5	7	(n-1)*35+49	(n-1)*35+63	191.9	G1/2	35.5	51.5	109.4	35	50

Key Features

1. Internal exhausting structure, no pollution
2. Power consumption 0.85W, lowest version can reach to 0.3W
3. Sliding-column structure, special seals and grease to increase lifetime. Well sealing performance and fast response time
4. Maximum working pressure up to 0.8MPa
5. Integrated installation to save space



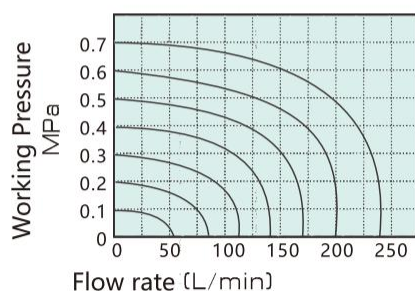
Specifications

Specifications	10mm series			15mm series		
	JSY100-M5	JSY102-M5	JSY103-M5	JSY150-06	JSY152-06	JSY153-06
Valve Type	5/2 Way		5/3 Way	5/2 Way		5/3 Way
Port Size	Inlet = Outlet = Exhaust = M5			Inlet = Outlet = Exhaust = G1/8"		
CV Value	Cv=0.16		Cv=0.13	CV=0.49		CV=0.42
Working Medium	40 Micron filtered air					
Working Pressure	0.15~0.8MPa	0.1~0.8MPa	0.2~0.8MPa	0.15~0.8MPa	0.1~0.8MPa	0.2~0.8MPa
Max Pressure	1.2MPa					
Working Temperature	-5° C~50° C					
Power Consumption	0.85W					
Frequency	5 / S					

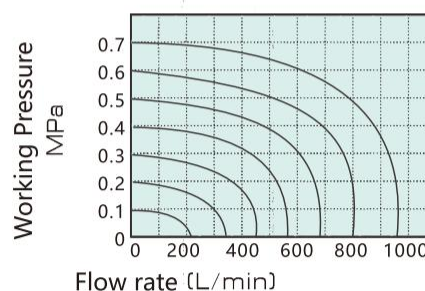
Ordering Code

JSY	10	0	M5	DC24V	L	M8	2F
Spec	Series	Function	Port	Voltage	Power	Connection	Position
	10:10mm Series	0: Single coil 5/2 way	M5: M5"	DC24V	Blank: standard	Blank: horizontal wiring	Blank: single valve
	15:15mm Series	2: Double coil 5/2 way	06: 1/8"	DC12V	L: Low consumption	M8: M8 three-core plug	2F~20F
		3C: Double coil 5/3 way-closed					
		3E: Double coil 5/3 way-exhausted					
		3P: Double coil 5/3 way-pressed					

Flow diagram Model: JSY100-M5



Flow diagram Model: JSY150-06



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

JSY Series

Solenoid Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

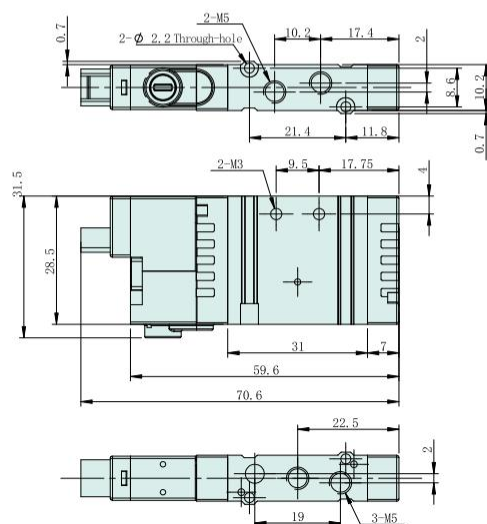
ASC, RE

QE, QEA

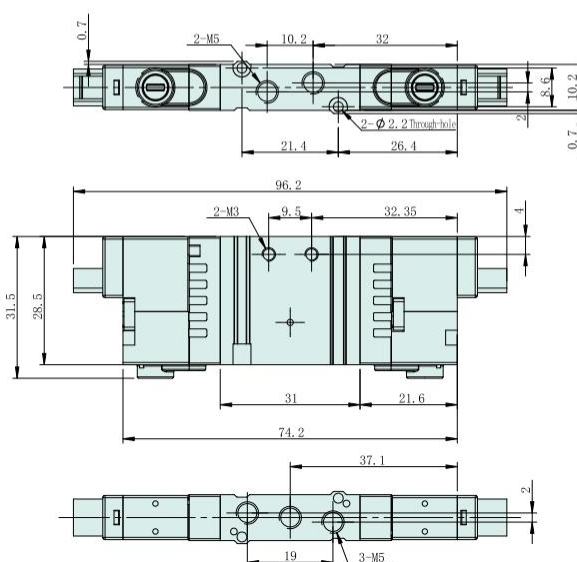
ST

HSV

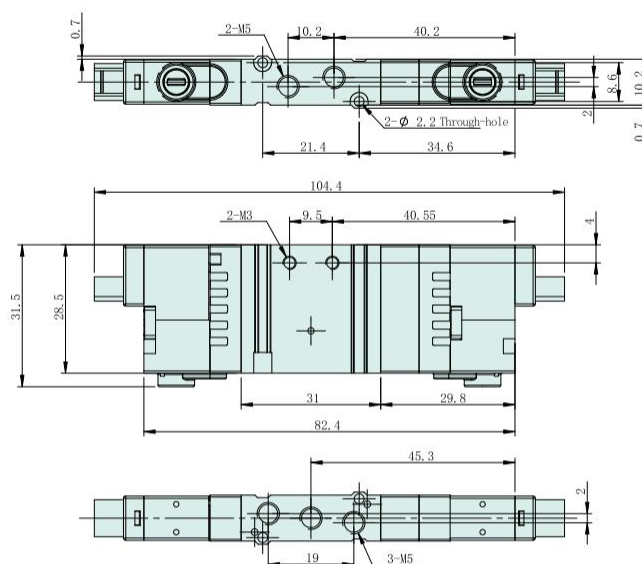
JSY100 Series Dimensions



JSY100-M5

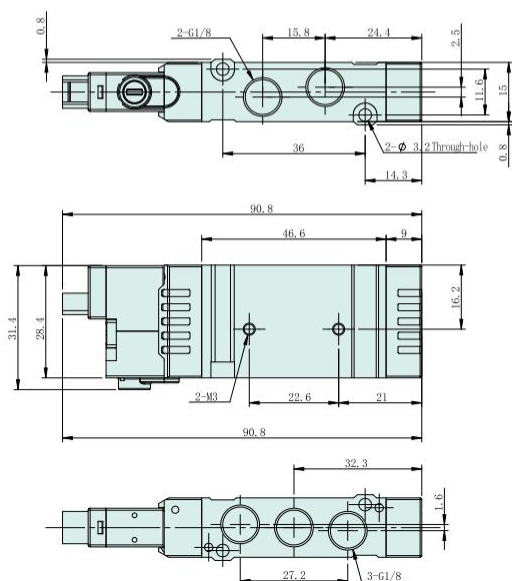


JSY102-M5

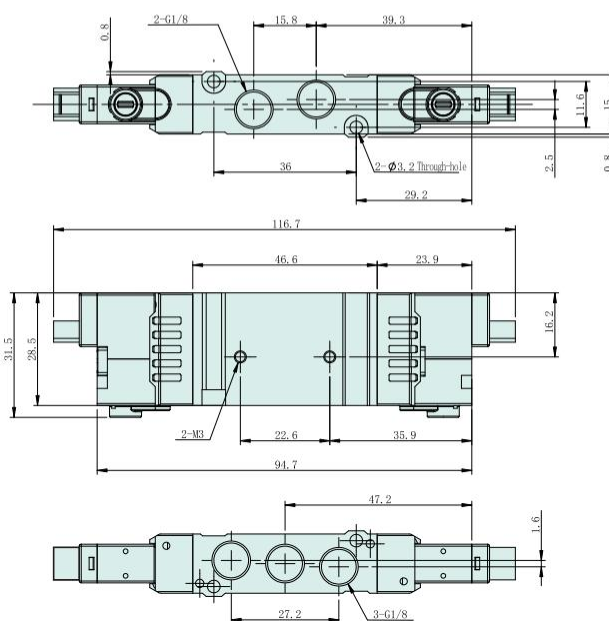


JSY103-M5

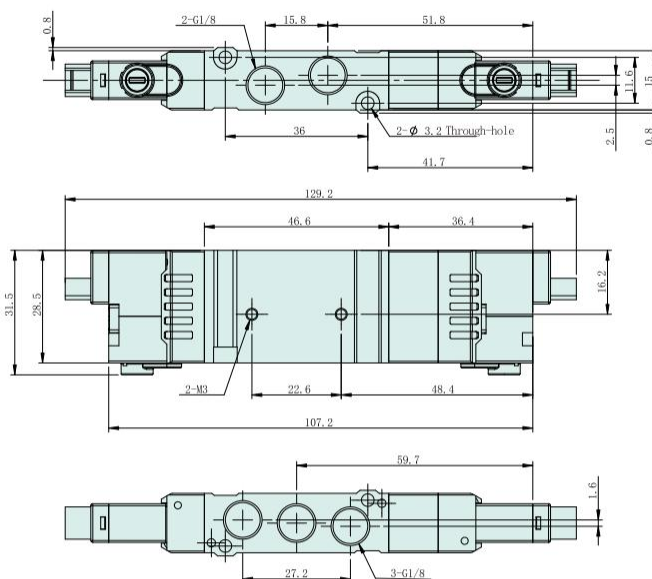
JSY150 Series Dimensions



JSY150-06



JSY152-06



JSY153-06

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

JSY Series

Solenoid Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

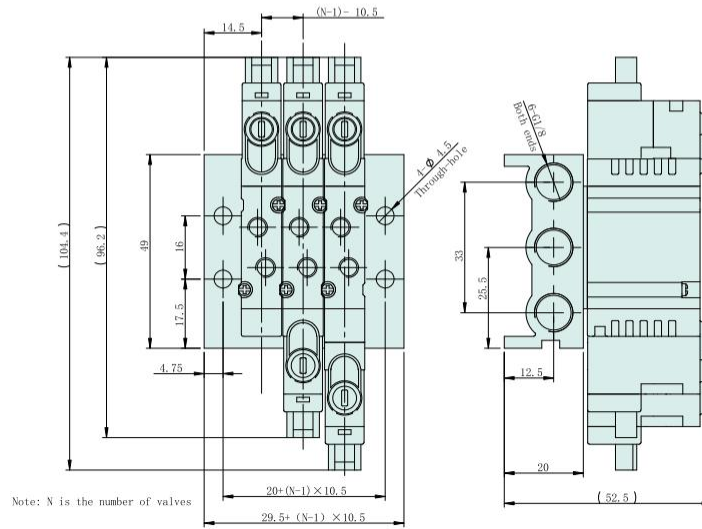
ASC, RE

QE, QEA

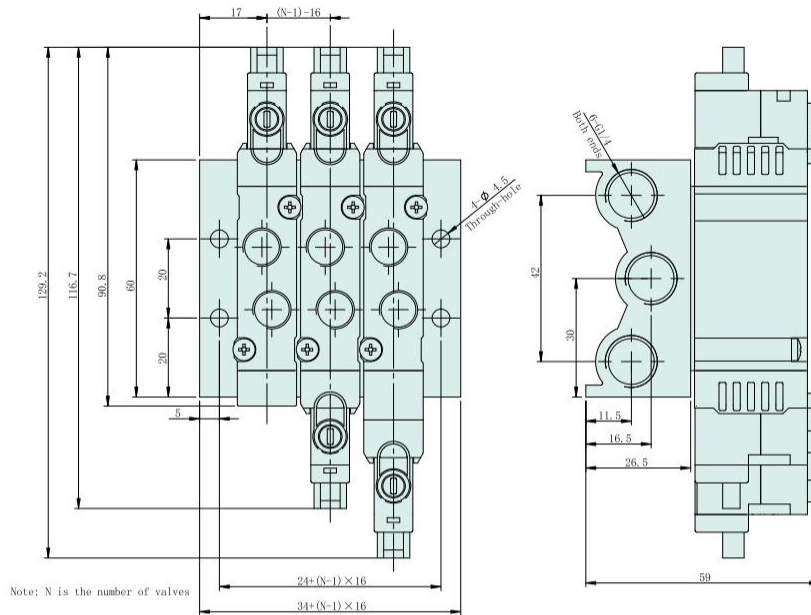
ST

HSV

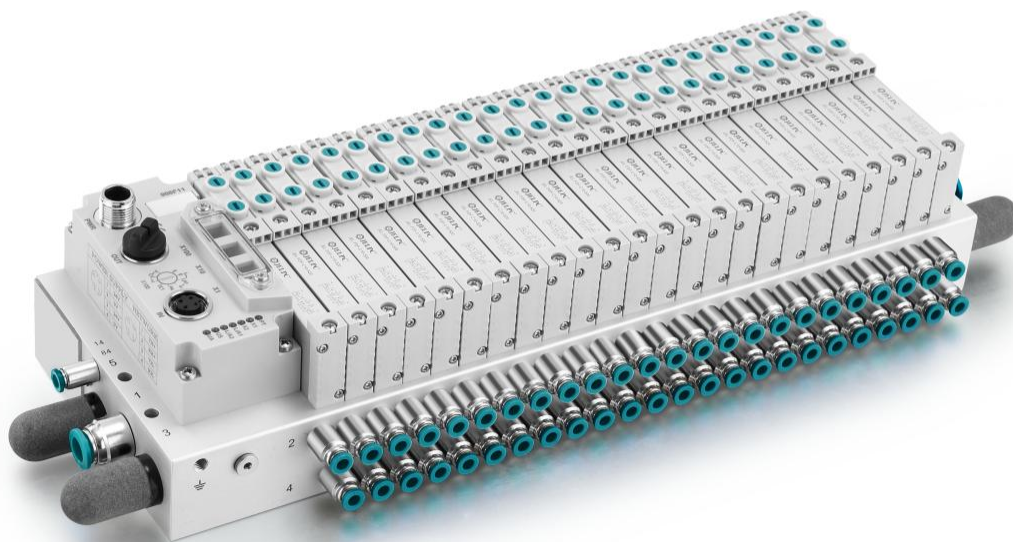
JSY100-M5-NF / JSY150-06-NF Series Dimensions



JSY100-M5-NF



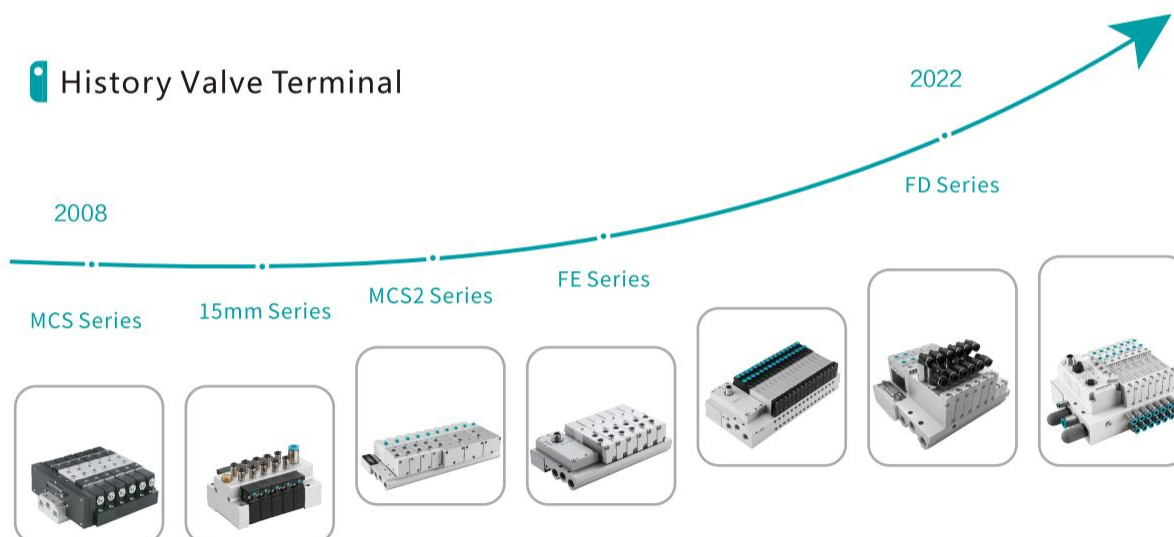
JSY150-06-NF



About Valve Terminal

In the past ten years, JELPC has continuously carried out technological iteration and innovation, and successively developed MCS, MCS2, FE series multi-pin valve terminals and launched JEL-FD series valve terminal in 2022. It can realize the modular design of IO-Link and PROFINET, EtherCAT, EtherNet/IP, CC-Link IE Field Basic and other industrial Ethernet communication products, with novel structure, complete functions, and high comprehensive cost performance.

History Valve Terminal



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

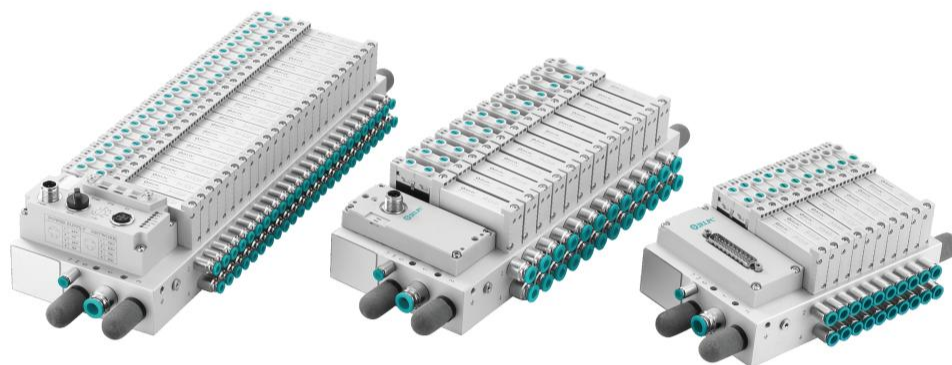
QE, QEA

ST

HSV

JEL-FD Series

Valve Terminal



About Valve Terminal

- For modular pneumatic control systems
- Extremely flexibility and expansibility
- 14mm and 10mm widths with various functions optional
- Reduced power consumption by 70%
- Indicator light is visible at all angles for quick troubleshooting
- Up to 24 valve positions
- Protection class Ip65
- Internal and external pilot structure available

Specifications

Positions	4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 20, 24	
Electrical Connection	D-SUB25 pin, IO-Link, PROFINET, EtherCAT, EtherNet/IP, CC-Link IE Field Basic	
Voltage	24VDC±10%	
Power Consumption	Single Coil Instant Max 1.2W	
Flow Rate	Max 600L/min (According to the valve type)	
Working Port	10mm:Supply=Exhaust=G1/4" Working=M7*1	14mm:Supply=Exhaust=G1/4" Working=G1/8"
Working Pressure	Pilot Pressure Refer to P39 FDF valve specification	

Ordering Code

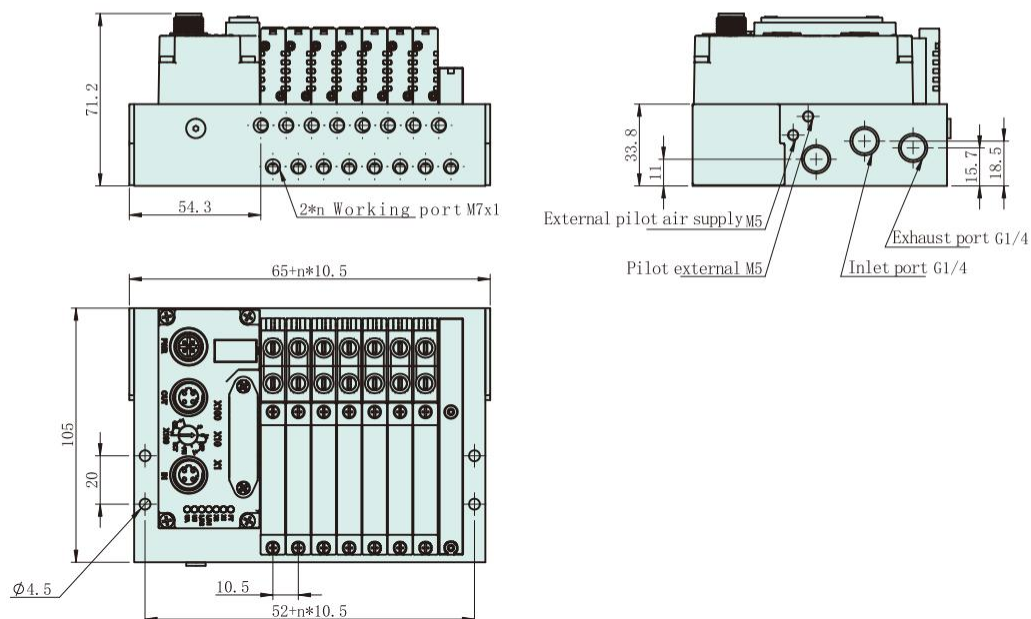
JEL-FD	C	14	E	1C	2D	5S	IOL
	I	I	I	I	I	I	I
	Series	Width	Pilot Air	Valve Quantity and Function			Communication
	C:Sub-side	10: 10mm	Black: Internal	Letters represent the function ,Numbers represent the quantity			MC:D-SUB25 IOL: IO-Link
	F: Semi in -line	14: 14mm	E: External	C:5/3 mid-position colsed	NC:2x 3/2-way valve NC		PNT: PROFINET
	B:Sub-base			E:5/3 mid-position exhausted	NO:2x 3/2-way valve NO		ECT: EtherCAT
				P:5/3 mid-position pressurised	NOC:3/2-way valve NC/NO		EIP: EtherNet/IP
				D:Double solenoid 5/2-way valve	S:Single solenoid 5/2-way valve		CIEBS: CC-Link IE Field Basic
					B:Black plate		

Q10	L	A	U	L	Q4
I	I	I	I	I	I
Inlet fitting specifications	Inlet fitting position	Inlet fitting type	Silencer options	Silencer position	Working port fitting specification
Blank:No fitting	Blank: Both side	Blank:Straight type	Blank:No silencer	lank: Both side	Blank:No fitting
Q6:6mm Quick plug	L: Left side mounting,	A:90 degree Elbow	U:With silencer	L: Left side mounting,	Q4:4mm Quick plug
Q8:8mm Quick plug	right side blocking			right side blocking	Q6:6mm Quick plug
Q10:10mm Quick plug	R: Right side mounting,			R: Right side mounting,	Q8:8mm Quick plug
Q12:12mm Quick plug	left side blocking			left side blocking	

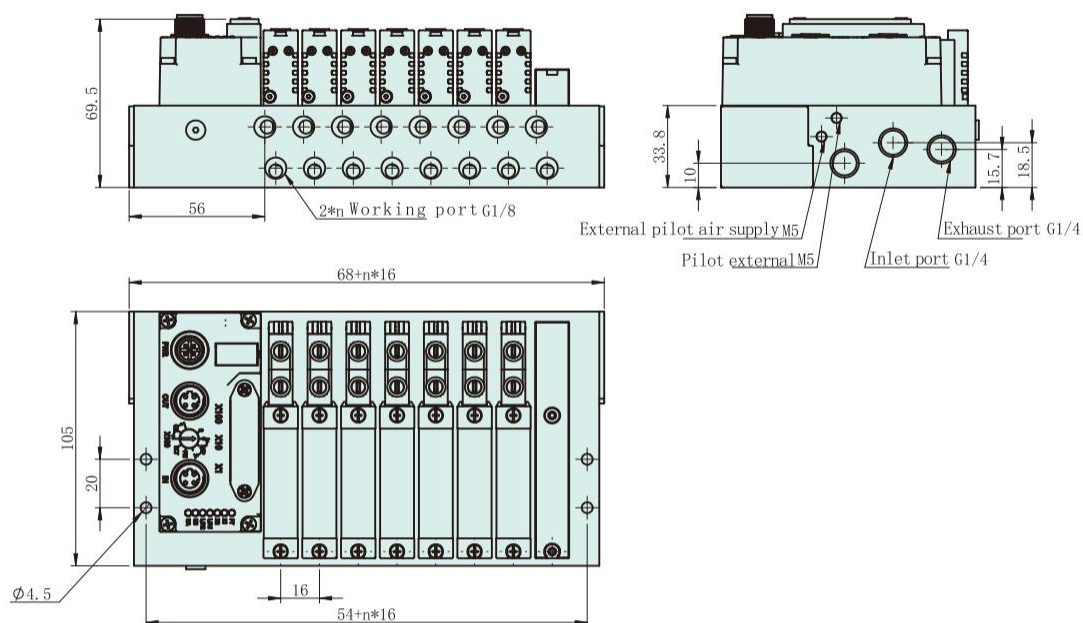
- When different valves are mixed, the default installation order from left to right is C, E, P, D, NC, NO, NOC, S, and B
- Near the electrical interface end is defined to the left of the valve terminal

Overall Dimension

• 10mm



• 14mm



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

JEL-FD Series

Valve Terminal



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

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JEL5404

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Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

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MSV

JM

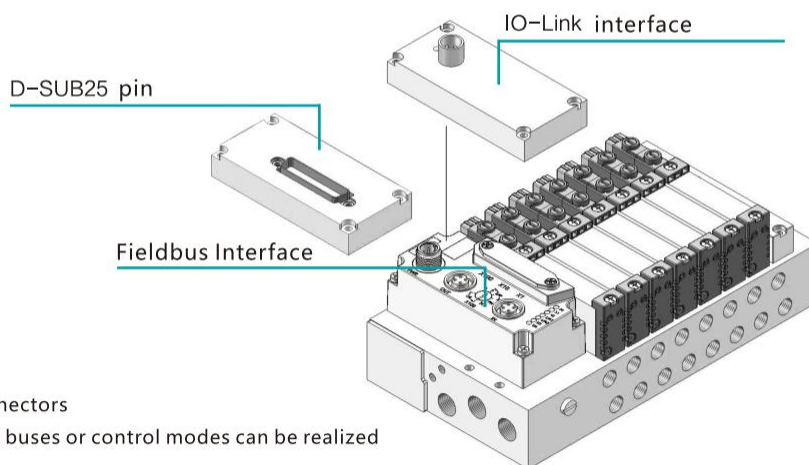
ASC, RE

QE, QEA

ST

HSV

Structure Diagram



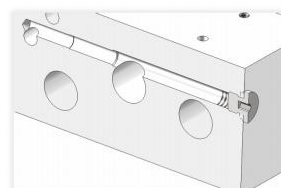
- Choice of quick push-in connectors
- Switching between different buses or control modes can be realized

Internal and External Pilot Switching



External Pilot

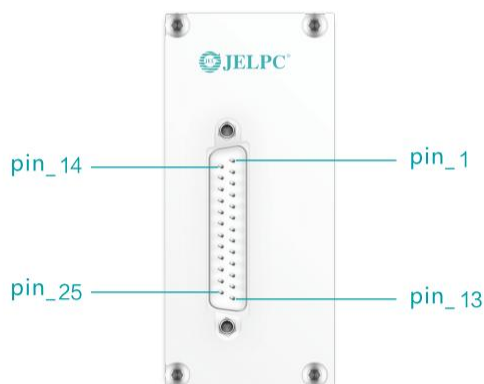
- Installing screw at the pilot switching hole can realize the external pilot function, pilot air through the M5 threaded hole at the endface of the bottom plate.



Internal Pilot

- Installing M5 plug at the pilot switching hole can realize the internal pilot function, pilot air directly through the air inlet of the bottom plate.

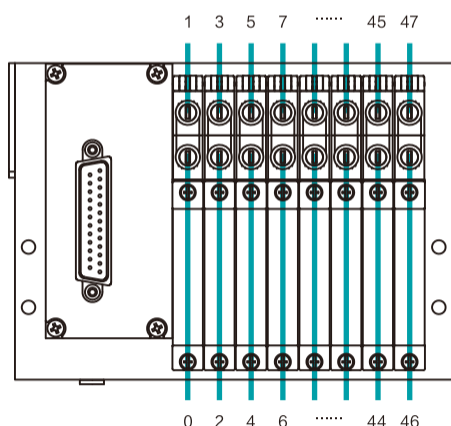
D-SUB25 pin



Item	Order code
D-SUB25 pin	M1-25-SUB

- Valve terminal can control up to 24 coils depending on the connection mode. Each valve coil of the valve terminal corresponds to a pin on the multi-pin plug.

Definition of D-SUB25 pin module



PIN	Position	Max Valve Position			
		4~12	16	20	24
		Valve No. /coil Name			
1	0	0/14	0/14	0/14	0/14
2	1	0/12	0/12	0/12	23/14
3	2	1/14	1/14	1/14	1/14
4	3	1/12	1/12	1/12	22/14
5	4	2/14	2/14	2/14	2/14
6	5	2/12	2/12	2/12	21/14
7	6	3/14	3/14	3/14	3/14
8	7	3/12	3/12	3/12	20/14
9	8	4/14	4/14	4/14	4/14
10	9	4/12	4/12	19/14	19/14
11	10	5/14	5/14	5/14	5/14
12	11	5/12	5/12	18/14	18/14
13	12	6/14	6/14	6/14	6/14
14	13	6/12	6/12	17/14	17/14
15	14	7/14	7/14	7/14	7/14
16	15	7/12	7/12	16/14	16/14
17	16	8/14	8/14	8/14	8/14
18	17	8/12	15/14	15/14	15/14
19	18	9/14	9/14	9/14	9/14
20	19	9/12	14/14	14/14	14/14
21	20	10/14	10/14	10/14	10/14
22	21	10/12	13/14	13/14	13/14
23	22	11/14	11/14	11/14	11/14
24	23	11/12	12/14	12/14	12/14
25		COM			

- Double coil valve can be installed at the valve position corresponding to the gray area

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY

Terminal

JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

JEL-FD Series

Valve Terminal



Valve
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
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Diaphragm
JELVD
3V1
Coil
2P
2V
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PU225
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MSV
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HSV

IO-Link Module



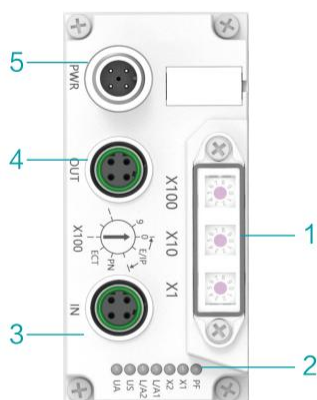
Item	Order code	Description
IO-Link-8	JEL-VTE-8-PT	Up to 8 position base
IO-Link-16	JEL-VTE-16-PT	Up to 16 position base
IO-Link-24	JEL-VTE-24-PT	Up to 24 position base

IO-Link Pin Distribution			
Interface	Pin	Distribution	Function
	1	24V EL/SEN(PS)	Supply Power
	2	24V BAL/OUT(PL)	Load Power
	3	0V EL/SEN(PS)	Supply Power
	4	C/Q	Communication
	5	0V VAL/OUT(PL)	Load Power

IO-Link LED Indicator		Drive File IO-Link			
Green light flashes	Normal operation state	Specification	V1.1	Output data	2 bytes
Red light always on	24V load power failure or no IO-Link signal	Data transmission rate	COM2(38.4KBit)		4 bytes
Blue light always on	Open circuit or overload				6 bytes

- Please ask for the corresponding ODD file

Fieldbus Module



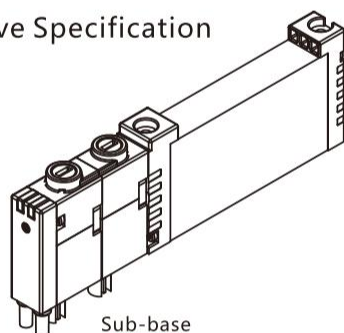
Item	Order code	Description
Fieldbus-PNT	CTEU-PNT	PROFINET
Fieldbus-ECT	CTEU-ECT	EtherCAT
Fieldbus-EIP	CTEU-EIP	EtherNet/IP
Fieldbus-CIEBS	CTEU-CIEBS	CC-Link IE Field Basic
Fieldbus-Multiple	CTEU-MPL	Support above 4 protocols

NO.	Name	Description
1	Dial switch	Protocol switching, IP address and coil setting
2	LED indicator	Operation status
3	Communication interface (IN)	M12 female D port 4 wire
4	Communication interface (OUT)	M12 female D port 4 wire
5	Power interface	M12 male A port 4 wire, power supply of communication module and valve

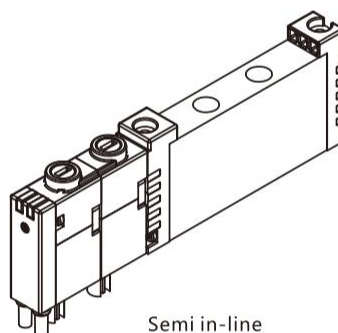
Power source			Communication Interface(OUT)			Communication Interface(OUT)		
M12, 4-pin, A-coded, male (PWR)			M12, 4-pin, D-coded, plug			M12, 4-pin, D-coded, plug		
	Pin	Function		Pin	Function		Pin	Function
	1	UA Actuator Power		1	Tx+ Transmit Data+		1	Tx+ Transmit Data+
	2	GND Actuator Power		2	Rx+ Receive Data+		2	Rx+ Receive Data+
	3	US Bus Power		3	Tx- Transmit Data-		3	Tx- Transmit Data-
	4	GND Bus Power		4	Rx- Receive Data-		4	Rx- Receive Data-

- Please ask for the corresponding drive file

FDF Valve Specification



Sub-base



Semi in-line

- For sub-base valve, 5 ports are all at the bottom. For semi in-line valve, inlet and exhaust ports are at the bottom 2 working ports are at the top.
- All valves are external pilot, it can be realized by switching screws on the sub-base when internal pilot is needed.

Order Code	Type	Order Code	Function	Symbol
FDF-C14-510	Sub-base	14	5/2-way valve single solenoid	
FDF-F14-510	Semi in-line			
FDF-C10-510	Sub-base	10	5/2-way valve single solenoid	
FDF-F10-510	Semi in-line			
FDF-C14-520	Sub-base	14	5/2-way valve double solenoid	
FDF-F14-520	Semi in-line			
FDF-C10-520	Sub-base	10	5/2-way valve double solenoid	
FDF-F10-520	Semi in-line			
FDF-C14-530	Sub-base	14	5/2-way valve mid-position closed	
FDF-F14-530	Semi in-line			
FDF-C10-530	Sub-base	10	5/2-way valve mid-position closed	
FDF-F10-530	Semi in-line			
FDF-C14-533	Sub-base	14	5/2-way valve mid-position exhausted	
FDF-F14-533	Semi in-line			
FDF-C10-533	Sub-base	10	5/2-way valve mid-position exhausted	
FDF-F10-533	Semi in-line			
FDF-C14-534	Sub-base	14	5/2-way valve mid-position pressurised	
FDF-F14-534	Semi in-line			
FDF-C10-534	Sub-base	10	5/2-way valve mid-position pressurised	
FDF-F10-534	Semi in-line			
FDF-C14-310	Sub-base	14	2x 3/2-way valve NC	
FDF-F14-310	Semi in-line			
FDF-C10-310	Sub-base	10	2x 3/2-way valve NC	
FDF-F10-310	Semi in-line			
FDF-C14-312	Sub-base	14	2x 3/2-way valve NO	
FDF-F14-312	Semi in-line			
FDF-C10-312	Sub-base	10	2x 3/2-way valve NO	
FDF-F10-312	Semi in-line			
FDF-C14-314	Sub-base	14	2x 3/2-way valve NC/NO	
FDF-F14-314	Semi in-line			
FDF-C10-314	Sub-base	10	2x 3/2-way valve NC/NO	
FDF-F10-314	Semi in-line			

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

JEL-FD Series

Valve Terminal



Valve

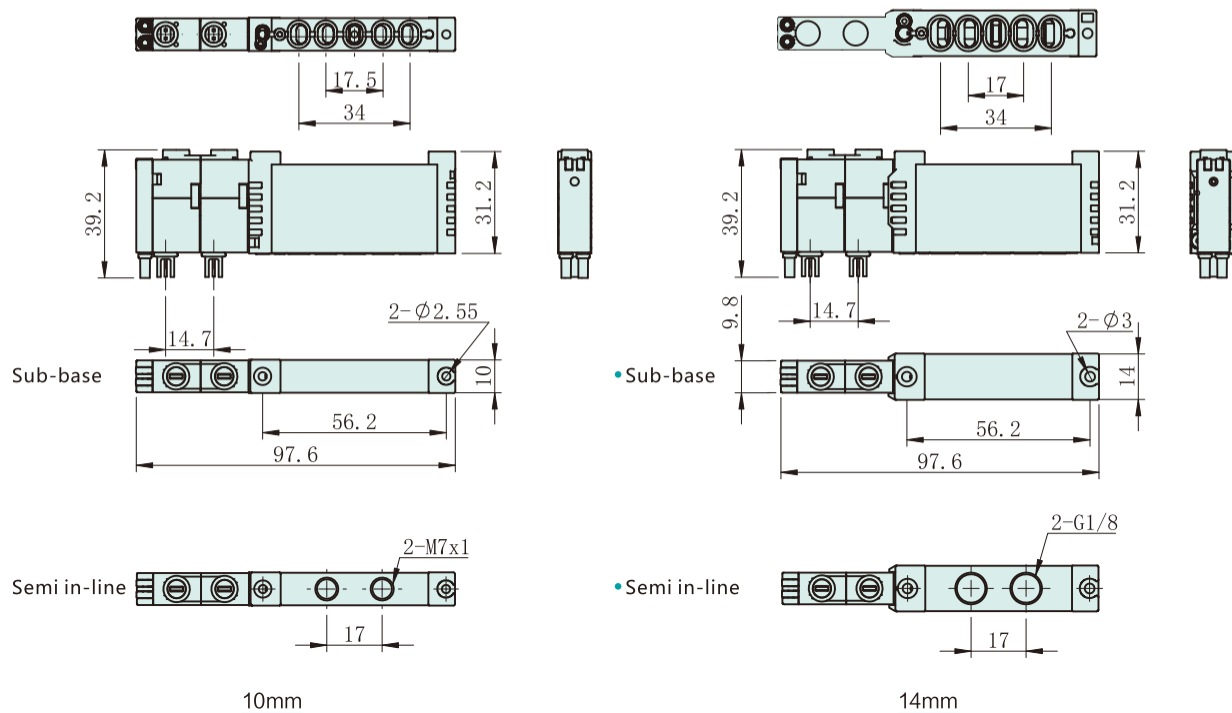
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY

Terminal

JVT
JEL
MVSD
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NAMUR
551
JEL10
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Diaphragm
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3V1
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JEL5404
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HV, K
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4F210
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HSV

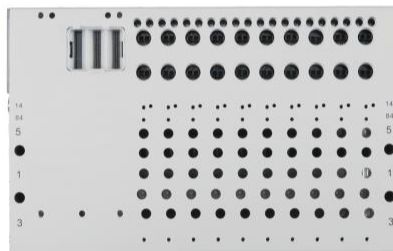
Valve Dimensions



Valve Parameter

Specification		Internal Pilot	External Pilot		Flow Rate (L/min)
		Working Pressure(bar)	Pilot Pressure(bar)	Working Pressure(bar)	
10mm	FDF-510	2~8	2~8	0~8	300
	FDF-520	2~8	2~8	0~8	300
	FDF-530	3~8	3~8	0~8	260
	FDF-533	3~8	3~8	0~8	260
	FDF-534	3~8	3~8	0~8	260
	FDF-310	2.5~8	2.5~8	2~8	280
	FDF-312	2.5~8	2.5~8	2~8	280
	FDF-314	2.5~8	2.5~8	2~8	280
14mm	FDF-510	2~8	2~8	0~8	560
	FDF-520	2~8	2~8	0~8	560
	FDF-530	3~8	3~8	0~8	500
	FDF-533	3~8	3~8	0~8	500
	FDF-534	3~8	3~8	0~8	600
	FDF-310	2.5~8	2.5~8	2~8	600
	FDF-312	2.5~8	2.5~8	2~8	500
	FDF-314	2.5~8	2.5~8	2~8	500

FDM Manifold Assembly



Manifold assembly

- There are 2 options for manifold: 10mm and 14mm
- Same manifold is used for sub-base and semi in-line valve
- PCB board has been integrated into the manifold

Order code

Order code	Valve Width	Position Number
FDM-C10-4F	10	4
FDM-C10-5F	10	5
FDM-C10-6F	10	6
FDM-C10-7F	10	7
FDM-C10-8F	10	8
FDM-C10-9F	10	9
FDM-C10-10F	10	10
FDM-C10-12F	10	12
FDM-C10-16F	10	16
FDM-C10-20F	10	20
FDM-C10-24F	10	24

• 10mm

Order code	Valve Width	Position Number
FDM-C14-4F	14	4
FDM-C14-5F	14	5
FDM-C14-6F	14	6
FDM-C14-7F	14	7
FDM-C14-8F	14	8
FDM-C14-9F	14	9
FDM-C14-10F	14	10
FDM-C14-12F	14	12
FDM-C14-16F	14	16
FDM-C14-20F	14	20
FDM-C14-24F	14	24

• 14mm

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

JEL-FD Series

Valve Terminal



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

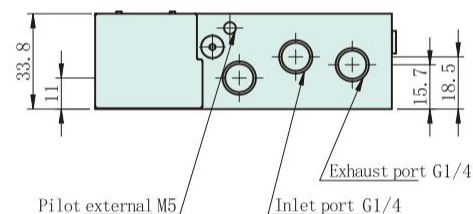
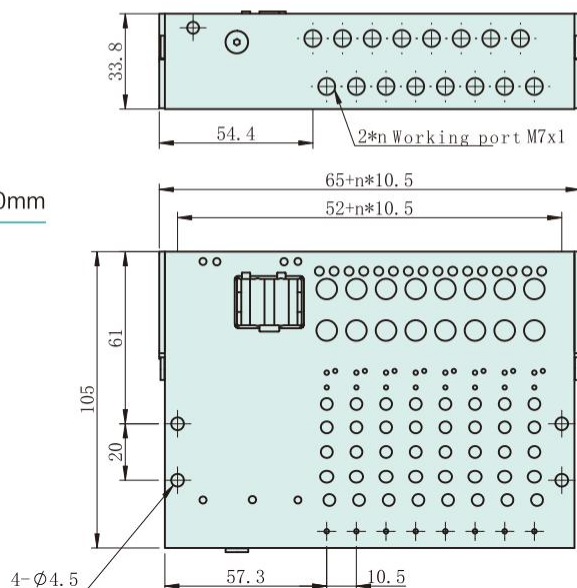
QE, QEA

ST

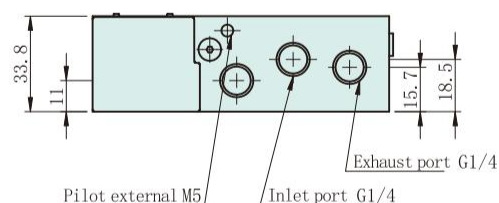
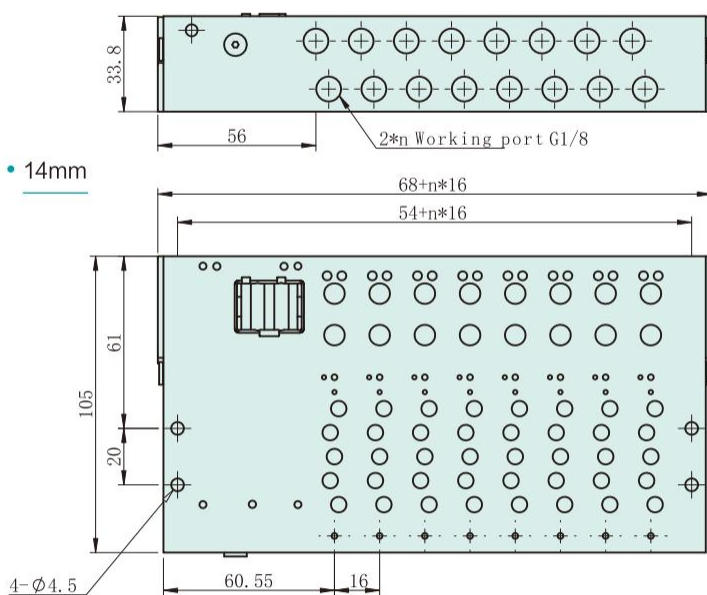
HSV

Overall Dimension

• 10mm



• 14mm



Additional Accessories

Cable for Multi-pin Plug	Item	Order Code
	Communication (DB25female-scatter) 2.5M	S1WA25-K-2.5
	Communication (DB25female-scatter) 5M	S1WA25-K-5
Cable for Io-Link	Item	Order Code
	Communication (M12female-scatter) outlet straight 2M	M12-5FS-2115-2M
	Communication (M12female-scatter) outlet straight 4M	M12-5FS-2115-4M
Bus Connection Cable	Item	Order Code
	Power supply 2M	M12-4FS-2104-2M
	Power supply 4M	M12-4FS-2104-4M
	Communication (M12male-scatter)2M	M12D-4MS.P-5544-2M
	Communication (M12male-scatter)4M	M12D-4MS.P-5544-4M
	Communication (M12male-M12male) 2M	M12D-4MS/M12D-4MS.P-5544-2M
	Communication (M12male-M12male) 4M	M12D-4MS/M12D-4MS.P-5544-4M
	Communication (M12male-RJ45) 2M	M12D-4MS/RJ45Y.P-5544-2M
	Communication (M12male-RJ45) 4M	M12D-4MS/RJ45Y.P-5544-4M

- Other lengths of cable are available

Fitting	Item	Order Code	Fitting	Item	Order Code
	G1/8-4	POC4-G01		M5-4	POC4-M5C
	G1/8-6	POC6-G01		M5-6	POC6-M5C
	G1/8-8	POC8-G01		M7-4	POC4-M7C
	G1/4-8	POC8-G02		M7-6	POC6-M7C
Blanking Plug	Item	Order Code	Silencer	Item	Order Code
	M5	TTY-GDTM5		Silencer	PSU-A-8
	M7	TTY-GDTM7			
	G1/8	TTY-GDT1/8		Separator for pressure zones	JEL-FD-FQDT
	G1/4	IBP-G02			
Pilot Switching Screw	Item	Order Code	Blanking Plate	Item	Order Code
	Pilot switching screw	JEL-FD-QHLD		10MM	FDF-C10-B
				14MM	FDF-C14-B

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

JEL-FE Series

IO-Link Control Valve Terminal



Valve
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV



Key Features

- Inlet and exhaust ports are centrally arranged, compact interface
- D-SUB25 and IO-Link interface to save wiring time and labor cost
- Each valve is equipped with working indicator light, convenient for debugging
- Up to 24 single coil valves can be integrated
- Double coil solutions available

Specifications

Model No.	Model No.		
Function	5/2 single coil	5/2 double coil	5/3 double coil
Net Section Area	12mm ² (CV=0.67)		9mm ² (CV=0.5)
Interface Size	Inlet and exhaust=G1/4 Working=G1/8		
Working Media	40 Micron filtered Air		
Action Mode	Internal pilot		
Applicable Pressure	0.15~0.8Mpa		
Max Pressure	1.2Mpa		
Working Temperature	-10°~ 60°C		
Voltage Range	24VDC±10%		
Power Consumption	Single valve 2.5W		
Protection Grades	Level F		
Max Frequency	5/s		
Minimum Excitation Time	0.05s		

Order Code

JEL-FE	100	4S	2D	1C	1E	1P	IOL
Specifications	Series	Coil and Position Number	Coil and Position Number	Coil and Position Number	Coil and Position Number	Coil and Position Number	Communication Module
	100	Blank: no single coil S: single coil	Blank: no single coil D: double coil	Blank: no 5/3 double coil C: 5/3 mid-position closed E: 5/3 mid-position exhausted P: 5/3 mid-position pressurised			IOL:10-Link MC:D-SUB25 pin



Key Features

- Inlet and exhaust ports are centrally arranged, compact interface
- D-SUB15 interface to save wiring time and labor cost
- Each valve is equipped with working indicator light, convenient for debugging
- Up to 14 single coil valves can be integrated
- Double coil solutions available

Specifications

Model No.	100 Series			200 Series		
Functione	5/2 single coil	5/2 double coil	5/3 double coil	5/2 single coil	5/2 double coil	5/3 double coil
Net Section Area	12mm²(CV=0.67)		9mm²(CV=0.5)	16mm²(CV=0.89)		12mm²(CV=0.5)
Interface Size	Inlet and exhaust=G1/4 Working=G1/8			Inlet and exhaust=G1/4 Working=G1/4		
Working Media	40 Micron filtered Air					
Action Mode	Internal pilot					
Applicable Pressure	0.15~0.8Mpa					
Max Pressure	1.2Mpa					
Working Temperature	-10°~ 60° C					
Voltage Range	24VDC±10%					
Power Consumption	Single valve 2.5W			Single valve 3W		
Protection Grades	Level F					
Max Frequency	5/s					
Minimum Excitation Time	0.05s					

Order Code

MCS2	-	100	-	4S	-	2D	-	1C	1E	1P	-	DC24V
Specifications		Series		Coil and Position Number		Coil and Position Number		Coil and Position Number				Voltage
		100		Blank: no single coil		Blank: no single coil		Blank: no 5/3 double coil				DC24V
		200		S: single coil		D: double coil		C: 5/3 mid-position closed				
								E: 5/3 mid-position exhausted				
								P: 5/3 mid-position pressurised				

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

JEL-FE MCS2 Series

IO-Link, Multi-pin Control Valve Terminal



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY

Terminal

JVT
JEL
MVSD
VF
NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

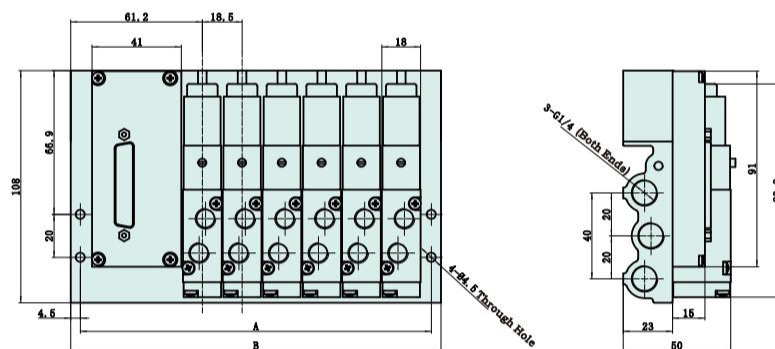
ASC, RE

QE, QEA

ST

HSV

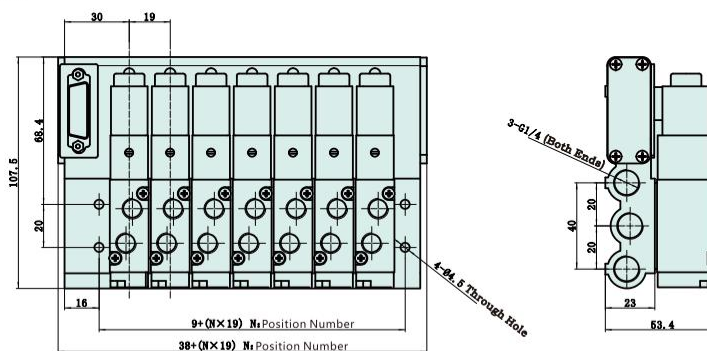
JEL-FE Dimensions



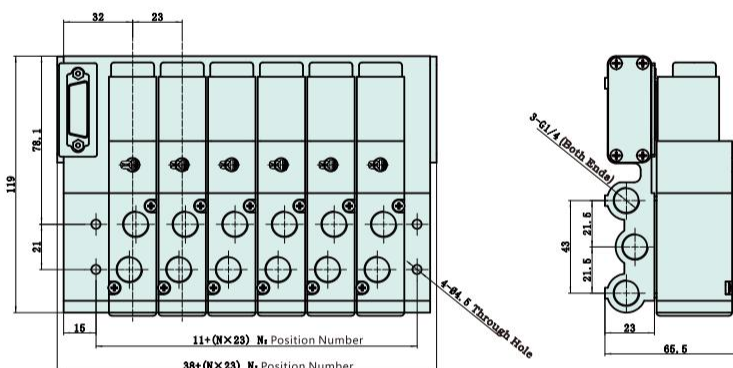
Position Number	4	5	6	7	8	9	10	12	16	20	24
A	126.2	144.7	163.2	181.7	200.2	218.7	237.2	274.2	348.2	422.2	496.2
B	135.2	153.7	172.2	190.7	209.2	227.7	246.2	283.2	357.2	431.2	505.2

MCS2 Dimensions

MCS2-100



MCS2-200



Accessories

JEL-FE Series Cable

Communication (DB25female-scatter) 2.5M

Communication (DB25female-scatter) 5M

Order Code

S1WA25-K-2.5

S1WA25-K-5

MCS2 Series Cable

MCS2 Series 3M

MCS2 Series 5M

Order Code

DB15-S-14-300

DB15-S-14-500

JVT307

High Frequency Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

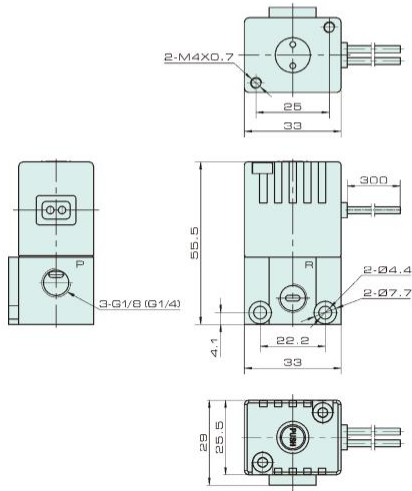
QE, QEA

ST

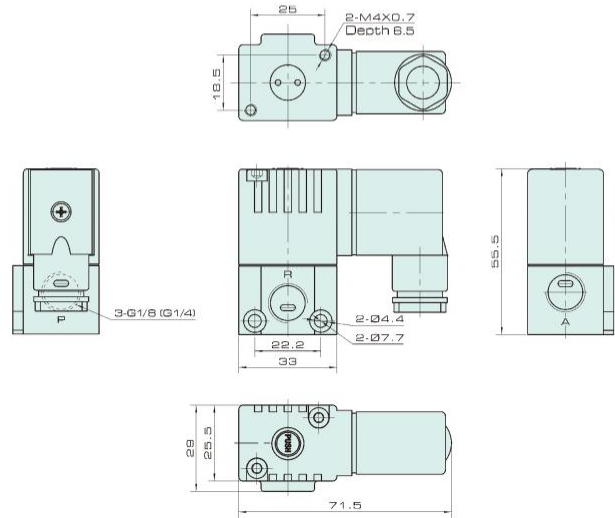
HSV

Overall Dimension

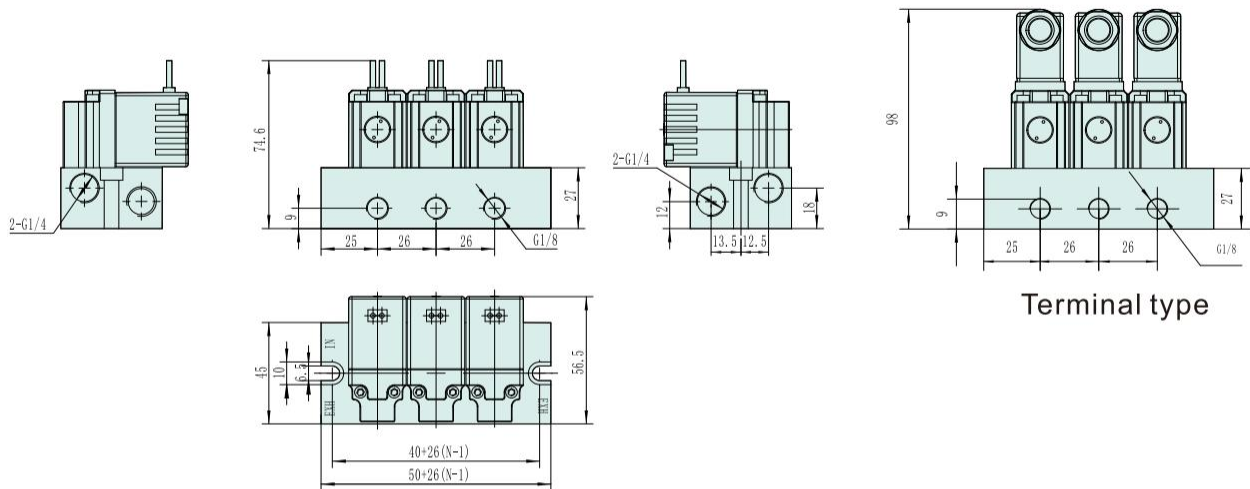
JVT307 Lead Wire Type



JVT307 Connector Type



JVT307B





Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal

JVT

JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Features

- 1、 Direct-acting type, quick response;
- 2、 Coaxial direct-acting, good sealing;
- 3、 No lubrication required;
- 4、 Manual override facilitates machine set up;
- 5、 Many voltages available.

Ordering Code

JVT317	08	DC12V	W	□
↓	↓	↓	↓	↓
Specification	Port Size	Voltage	Wiring	Thread
JVT317	08:G1/4	DC12V DC24V	Blank: Brown with light terminal W: Lead wire	Blank: G P: PT N: NPT

Specification

Model	JVT317
Working Medium	Air (40 Micron dry filtered air)
Port Size	Inlet, Outlet, Exhaust Port=G1/4"
Position	3/2 way
Flow	400L/min
Lubrication	No Need
Working Pressure	0 ~ 1.0MPa
Max Pressure	1.5MPa
Working Temperature	-10 ~ 80°C
Body Materials	Aluminum
Standard Voltage	DC12V, DC24V
Operating Voltage Range	±10%
Power Consumption	6.3W
Connector Protection	IP65
Temperature class	H class
Wiring/Connector	Cable / Lead Wire or DIN Connector
Switching Frequency	5 Cycles/Sec

JVT317

Solenoid Valve (Direct Operated)



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal

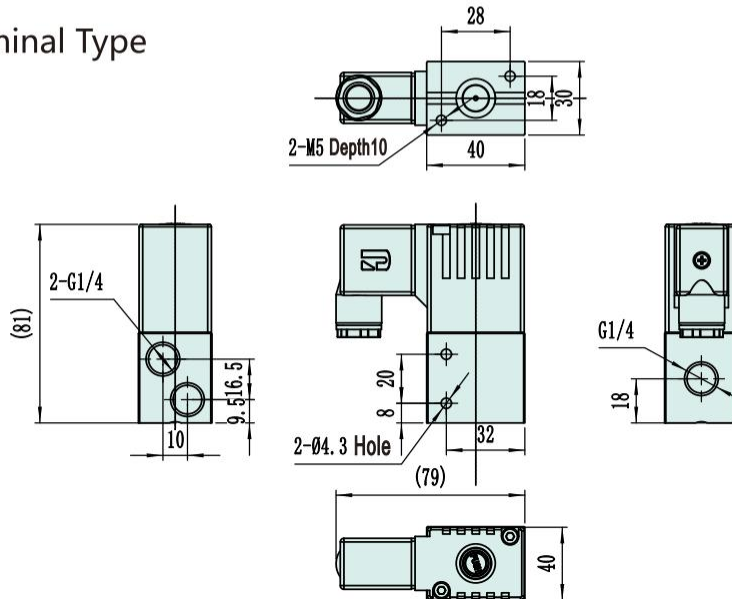
JVT

JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q

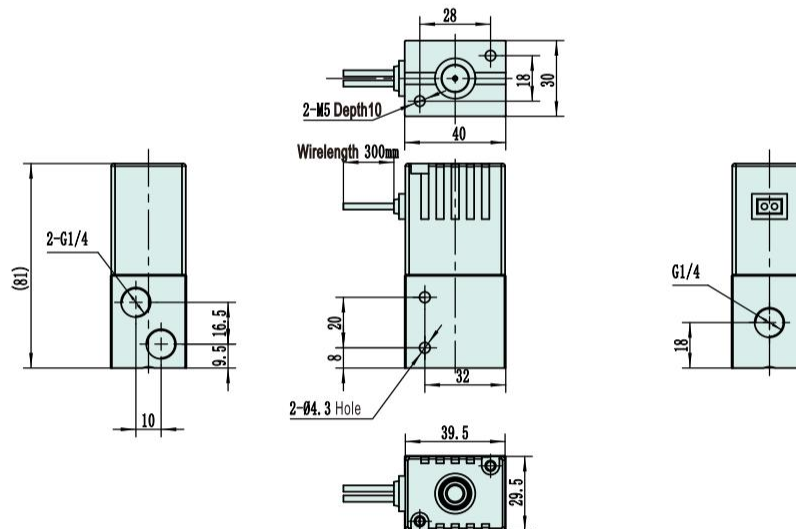
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Overall Dimension

JVT317 Terminal Type



JVT317 Lead wire Type





JELV532C



JELV522S

Ordering Code

JEL	V	52	2	S	AC220V	W
JELPC	Type	Position and Way	Port Size	Coil and Places	Standard Voltage	Wiring
	V: Solenoid valve A: Air pilot valve	52: 5/2 Way 53: 5/3 Way	1: G1/8" 2: G1/4" 3: G3/8" 4: G1/2"	S: Single coil D: Double coil C: Mid-position closed E: Mid-position exhausted P: Mid-position pressed	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	LD: Brown with light terminal LD1: White with light terminal W: Lead wire

Specification

Model	JELV521S	JELV521D	JELV531C(E/P)	JELV522S	JELV522D	JELV532C(E/P)	JELV523S	JELV523D	JELV533C(E/P)	JELV524S	JELV524D	JELV534C(E/P)
	JELA521S	JELA521D	JELA531C(E/P)	JELA522S	JELA522D	JELA532C(E/P)	JELA523S	JELA523D	JELA533C(E/P)	JELA524S	JELV524D	JELA534C(E/P)
Valve Type	5/2 Way		5/3 Way	5/2 Way		5/3 Way	5/2 Way		5/3 Way	5/2 Way		5/3 Way
Effective Cross Section Area	12mm²(CV=0.67)		9mm²(CV=0.5)	14mm²(CV=0.78)		12mm²(CV=0.69)	25mm²(CV=1.40)		18mm²(CV=1.00)	50mm²(CV=2.79)		30mm²(CV=1.68)
Working Medium	40 Micron Filtered Air											
Operation	Internal piloted											
Working Pressure	0.15 ~ 0.8MPa											
Max. Test Pressure	1.2MPa											
Max. Ambient Temperature	-20 ~ 70°C											
Operating Voltage Tolerance	±10%											
Power Consumption	AC: 5.5VA DC: 4.8W											
Connector Protection	F Class, IP 65											
Wiring / Connector	Cable / Lead Wire or DIN Connector											
Switching Frequency	5 Cycles / Sec.											
Response Time	0.05秒											

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT

JEL

MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

JEL Series

Solenoid Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

SS1

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

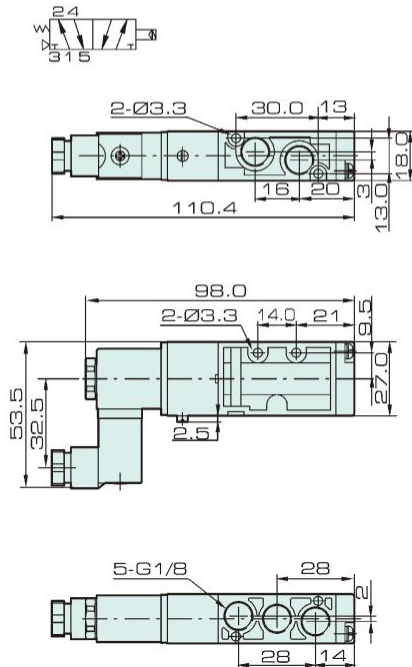
QE, QEA

ST

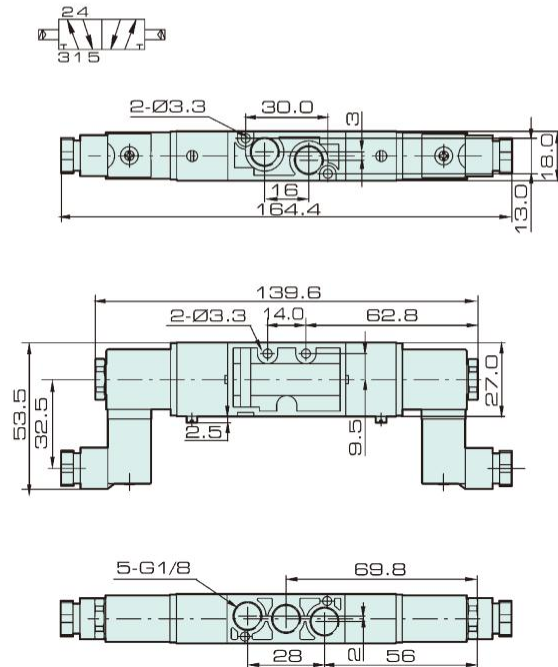
HSV

Overall Dimension

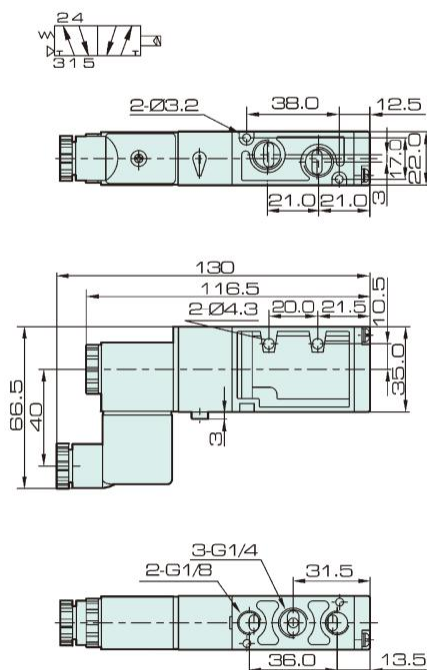
JEL521S



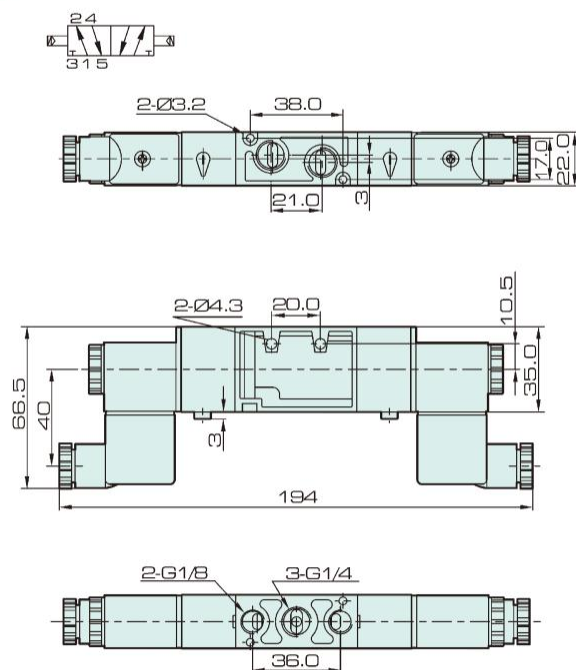
JEL521D



JEL522S

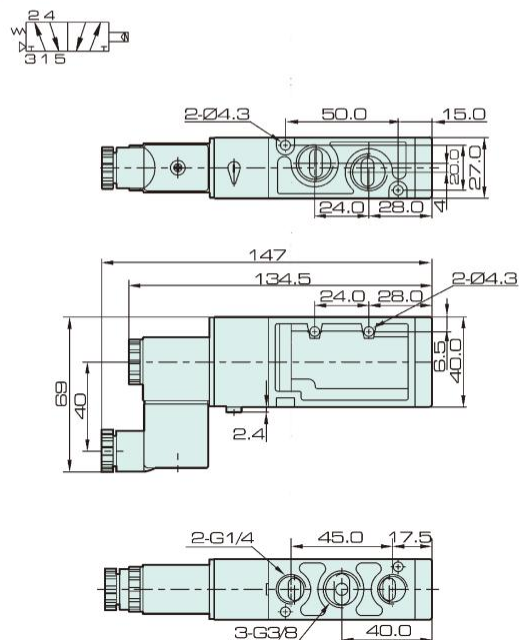


JEL522D

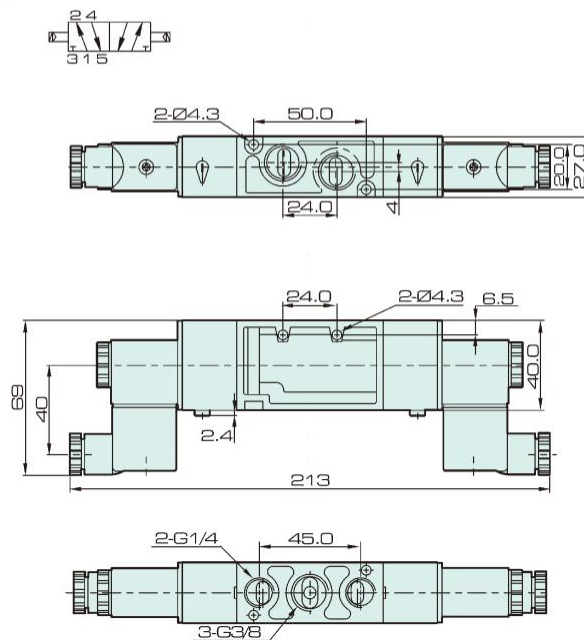


Overall Dimension

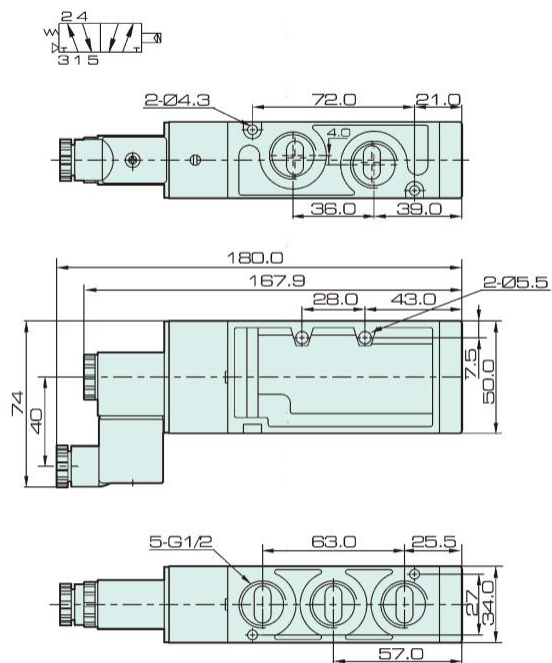
JEL523S



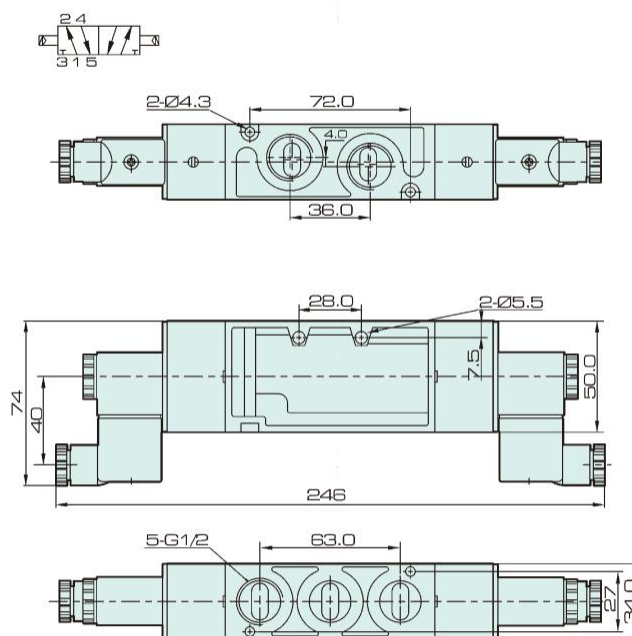
JEL523D



JEL524S



JEL524D



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT

JEL

MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

MVSD Series

Solenoid Valve



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL

MVSD

VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H

TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV



MVSD-260-4E1



MVSD-300-4E1



MVSD-600-4E1

Ordering Code

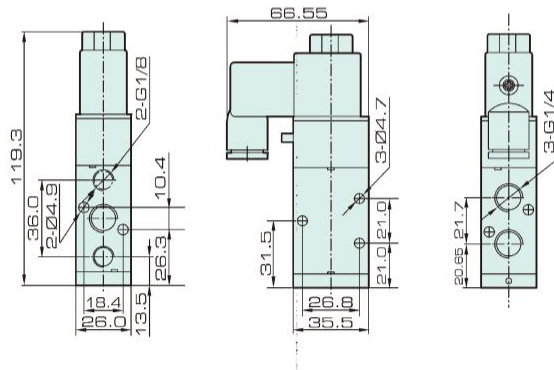
MVSD	260	4	E2	AC110V	W
Code	Body Width	4:5 Way	Stop Type	Standard Voltage	Wiring
	260: 26mm		E1: Single coil	DC12V DC24V	LD: Brown with light terminal
	300: 30mm		E2: Double coil	AC24V 50Hz/60Hz	LD1: White with light terminal
	600: 68mm			AC110V 50Hz/60Hz	W: Lead wire
				AC220V 50Hz/60Hz	
				AC380V 50Hz/60Hz	

Specification

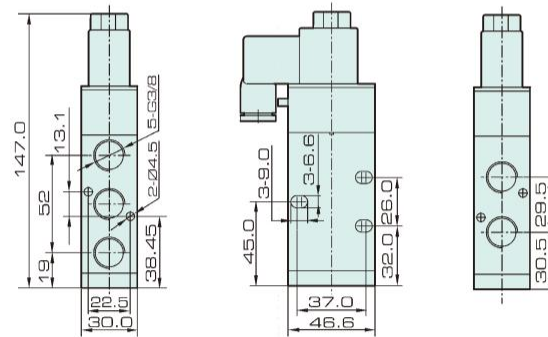
Item	MVSD-260-4E1	MVSD-260-4E2	MVSD-260-4E2 (C.PE)	MVSD-300-4E1	MVSD-300-4E2	MVSD-300-4E2 (C.PE)	MVSD-600-4E1	MVSD-600-4E2
No. of Position	2	2	3	2	2	3	2	
No. of Port	5			5	5		5	
Port Size	G1/4"			G3/8"			G3/4"	G1"
Working Medium	Air							
Working Pressure	0.2 ~ 0.7MPa		0.3 ~ 0.7MPa	0.2 ~ 0.7MPa		0.3 ~ 0.7MPa	0.2 ~ 0.7MPa	
Max. Test Pressure	10kgf/cm ²							
Effective Cross Section Area	18mm ²		16mm ²	35mm ²		25mm ²	20: 115mm ² 25: 135mm ²	
Ambient Temperature	-20 ~ 70°C (No Freezing)							
Power Consumption	AC:5.5VA DC:4.8W						AC:13VA	DC:10W
Operating Voltage Tolerance	±10%							
Insulation Class	IP 65, F Class							

Overall Dimension

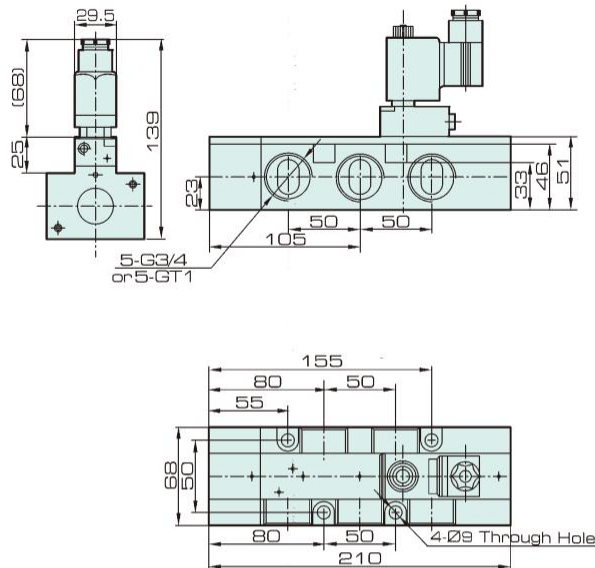
MVSD260-4E1



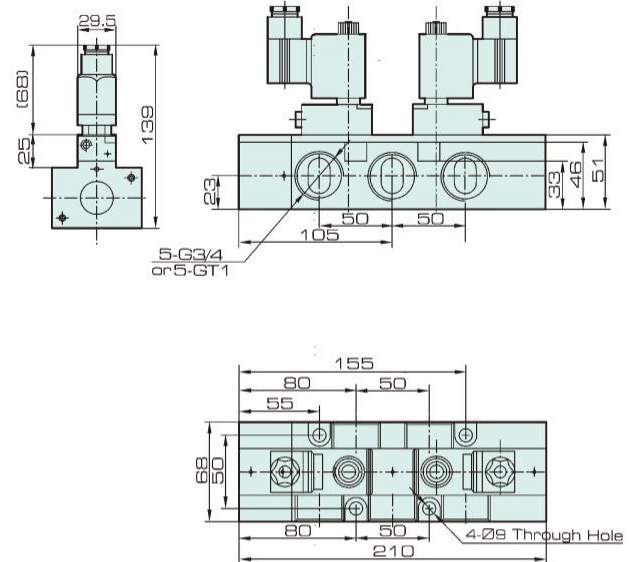
MVSD300-4E1



MVSD600-4E1



MVSD600-4E2



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

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Terminal

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JEL

MVSD

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NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

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4F210

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JM

ASC, RE

QE, QEA

ST

HSV

VF Series

Solenoid Valve



VF5120



VF3230

Ordering Code

VF3	1	30	AC110V	W	F
Series	Coil and Initial Status	Ordering Number	Standard Voltage	Wiring	Joint
VF3 Series	1: Single coil	VF3: 30	DC12V DC24V	LD: Brown with light terminal	1F~20F
VF5 Series	2: Double coil	VF5: 20	AC24V 50Hz/60Hz	LD1: White with light terminal	
	3: Mid-position Closed		AC110V 50Hz/60Hz	W: Lead wire	
	4: Mid-position Pressed		AC220V 50Hz/60Hz		
	5: Mid-position Exhausted		AC380V 50Hz/60Hz		

Specification

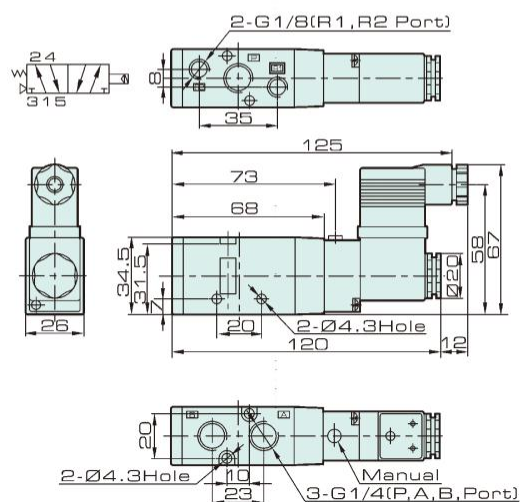
Model	VF3130	VF3230	VF33(4/5)30	VF5120	VF5220	VF53(4/5)50
Valve Type	5/2 way		5/3 way	5/2 way		5/3 way
Effective Cross Section Area	16mm ² (CV=0.89)		12mm ² (CV=0.67)	25mm ² (CV=1.40)		18mm ² (CV=1.00)
Working Medium	40 Micron Filtered Air					
Operation	Internal Piloted					
Working Pressure	0.15 ~ 0.8MPa					
Max. Test Pressure	1.2MPa					
Ambient Temperature	-20 ~ 70°C					
Operating Voltage Tolerance	±10%					
Power Consumption	AC: 5.5VA DC: 4.8W					
Protect Class	F Class, IP 65					
Wiring / Connector	Cable / Lead Wire or DIN Connector					
Switching Frequency	5 Cycles / Sec.					
Response Time	0.05 Sec.					

Base Ordering Code

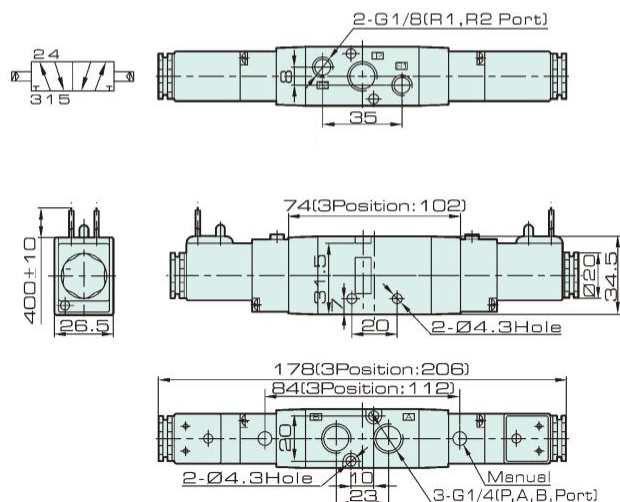
VF3000M	□ F
Series	Joint Base Number
VF3000M: VF3 Series	VF3000M : 1~20F
VF5000M: VF5 Series	VF5000M : 1~20F

Overall Dimension

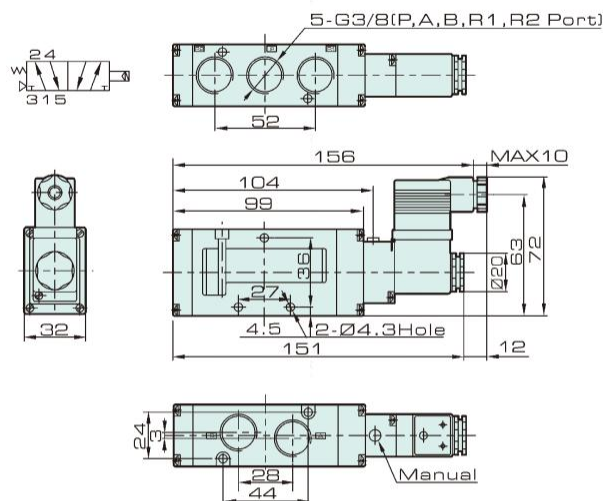
VF3130



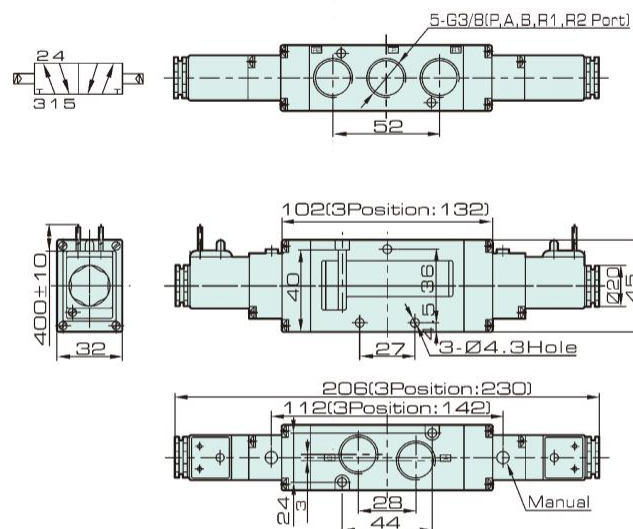
VF3230



VF5120



VF5220



Valve

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J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

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MVSD

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3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

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VF Series

Solenoid Valve



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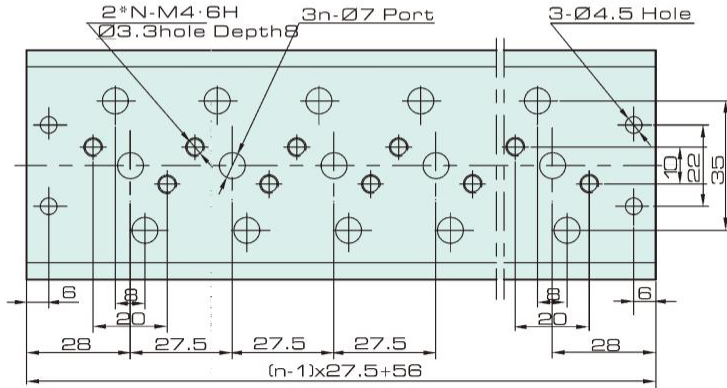
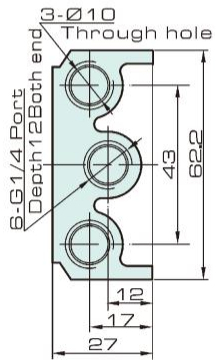
QE, QEA

ST

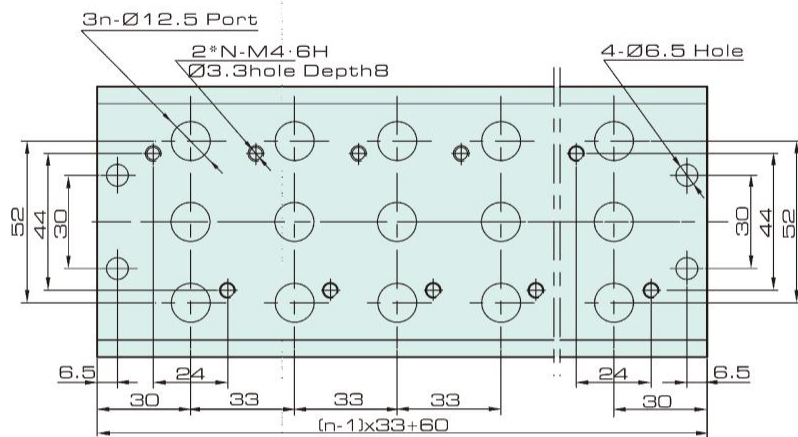
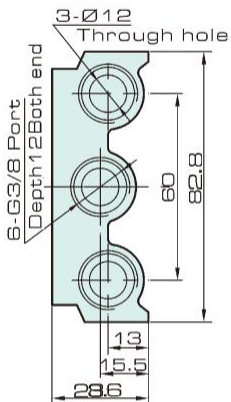
HSV

Overall Dimension

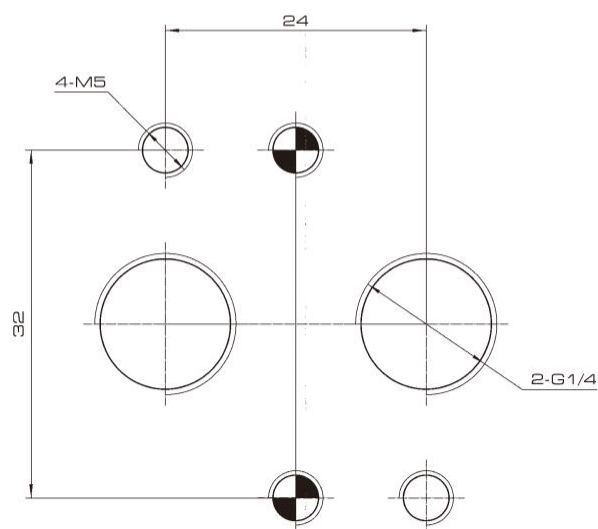
VF3000M



VF5000M



- The mounting dimension complies with the NAMUR standard



▲ Solenoid valve installation diagram

- Comply with the NAMUR standard Products



▲ J4V310-08B (10B)

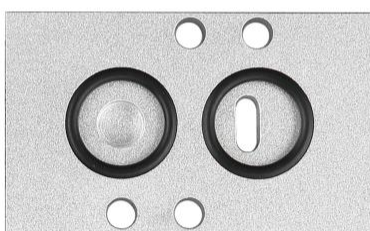
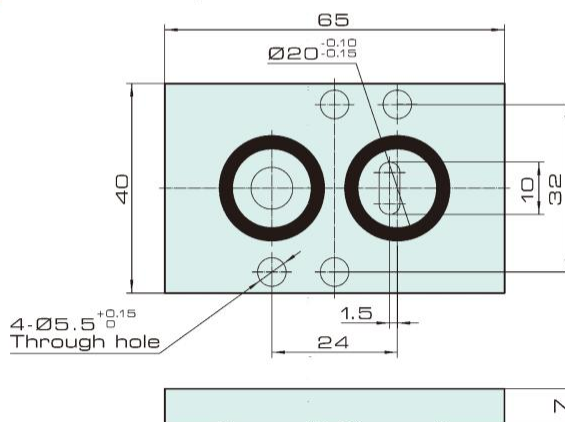


▲ ASC-08B



▲ NAMUR551

- 3/2 Transform plate dimension

▲ 2/3 Transform Plate
(for J4V310-08B)

Valve

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JEL

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3VJZF

Diaphragm

JELVD

3V1

Coil

2P

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2W

2W(big)

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VX

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PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

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MPV

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HV, K

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551 Series

Solenoid Valve



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Features

1. Aluminum valve body, with thread connector and Namur interface.
2. A slide valve can be assembled to 3/2 closed or 5/2 in order to control acting and single acting actuator.
3. With hand operator.
4. Coil can be rotated 360°.



European standard explosion-proof



American standard explosion-proof

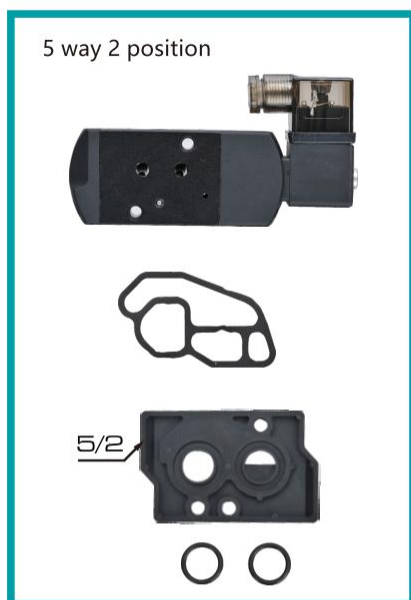


Safe explosion-proof

Ordering Code

NAMUR551	G	A01	DC24V	E1
Series Code	Tube Form	Coil Type	Standard Voltage	Explosion Code
NAMUR551: 9mm inner hole coil	Blank: Subplate mounted G: Tube connection	A01: Single coil A02: Double coil	DC24V AC110V AC220V	Blank: Standard type E1: Safe explosion-proof E2: European standard explosion-proof E3: American standard explosion-proof

Install Instruction

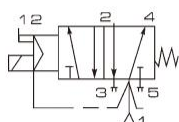


5 way 2 position

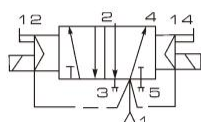


3 way 2 position

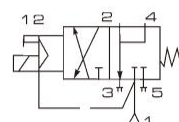
Symbol



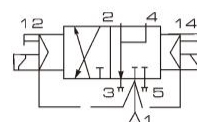
Single coil



Double coil



Single coil



Double coil

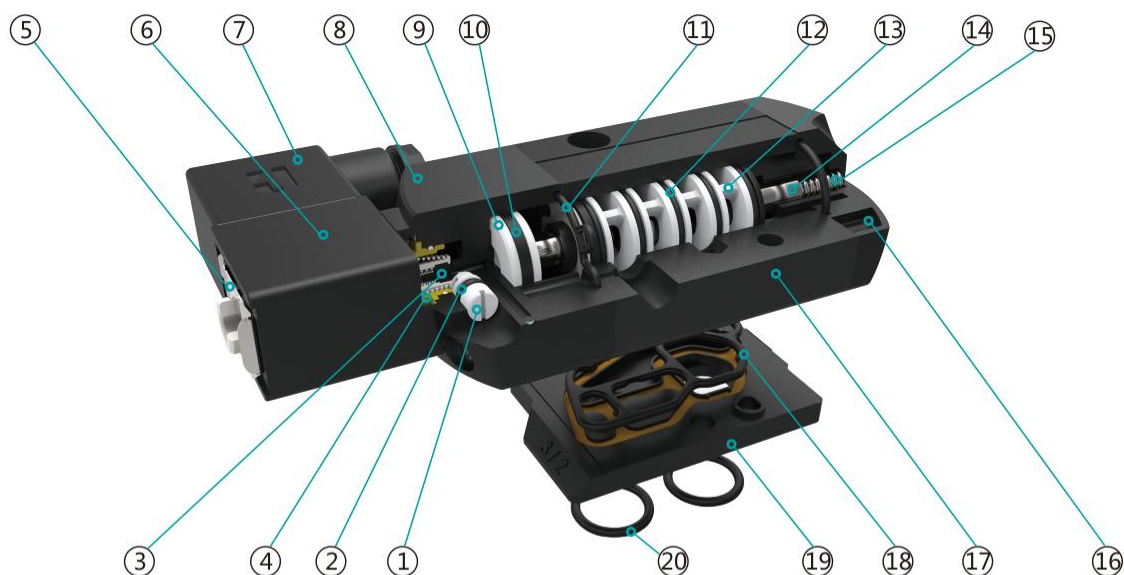
Specification

Working Pressure	2-10bar
Max Pressure	10bar
Flow Rate	700L/min
Medium	Air, Clean air
Ambient Temperature	-25°C to +60°C
Seal	NBR+PUR
Port Size	Inlet=G1/4" Exhaust=G1/8"

Feature

Coil Power	DC 3W; AC 4VA
Standard Voltage	DC24V; AC220V
Voltage Tolerance	± 10%
Insulation Class	F
Protect Class	IP65
Operation	100%

Internal Structure



Parts

Number	Name	Number	Name
1	Mannual Ride Spindle	11	Seal
2	O ring	12	O ring
3	Seal	13	Sleeve
4	Spring	14	Spool
5	Clip	15	Spring
6	Coil	16	End-cap
7	Terminal	17	Body
8	Pilot Set	18	Seal
9	Piston	19	Corverting Plate
10	Piston Seal	20	O ring

Valve

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Manifold
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Terminal
JVT
JEL
MVSD
VF
NAMUR

551

JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
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PU225
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JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

551 Series

Solenoid Valve

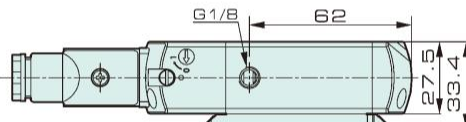
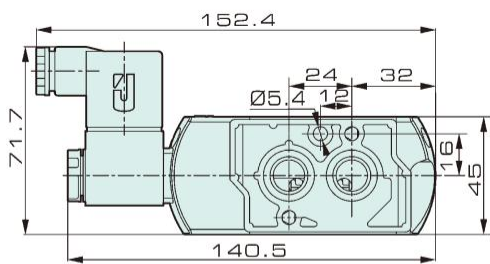
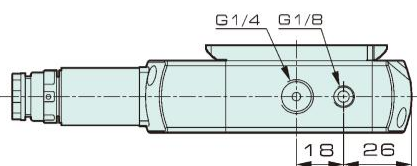
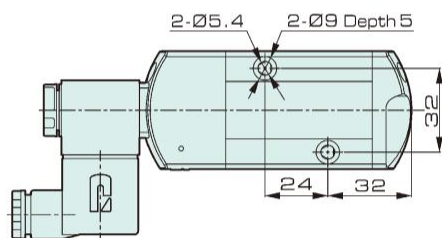


Valve

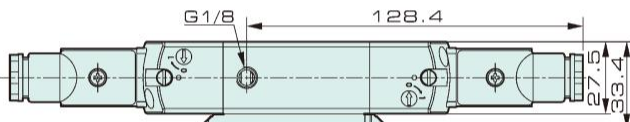
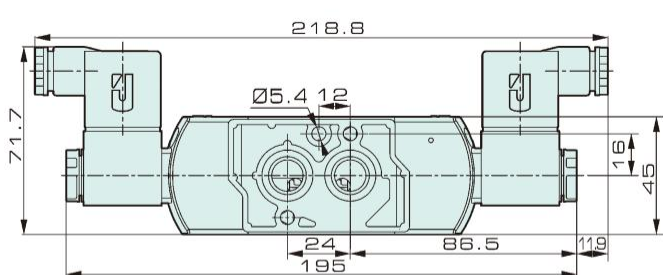
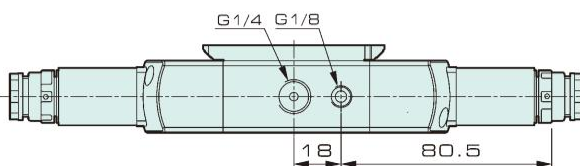
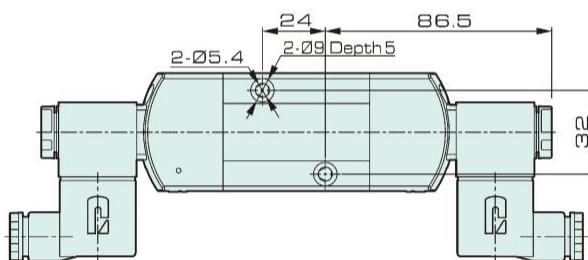
J4V
J4V100
J4V200
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JEL
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MPV
4HV
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Overall Dimension

NAMUR551-A01



NAMUR551-A02





Valve

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J4V100
J4V200
J4V300
J4V400
Manifold
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Terminal
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Features

1. Body material - high strength nylon with low water absorption and wide temperature range from -40 °C ~120 °C, to ensure dimensional stability.
2. Coil – Import lacquer wire from Germany and wind by high precise winding machine to be sure consistency. Use imported special plastic coating machine and moulds with segmented pressure control technology for temperature to reach critical dimension within a tolerance of ± 0.005 .
3. Assembly – semiautomatic assembly, with specially dedicated fixture to get the consistency, more than 95% of assembly quality rate.
4. Leakage Inspection – 100% of automatic and manual test for leakage, and total internal and external leakage is less than 2ml/min.
5. Through this series of materials, processes and equipment guarantee, JEL10 miniature solenoid valve can be up to 100 million life times. The valve is mostly used in the textile industry, the medical device industry and the electronic industry

Ordering Code

JEL10	A	L	H	1	F
Specification	Voltage	Connecting	Manual lever	Wire length	Joint
JEL10: Mini Solenoid Valve	A: DC24V B: DC12V	L: L type M8: M8 type	H: With manual lever	1 : 300mm 2 : 600mm 3 : Optional	1F-20F

*L type with cable; M8 type without cable, need to order

JEL10 Series

Mini Solenoid Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

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Coil

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HSV

Specification

Model	JEL10
Type	3/2 Normal close
Fluid	Air, inert gas
Ambient And Fluid Temp.	-10°C ~ +70°C
Working Pressure	0 ~ 8bar
Port Size	Φ0.65mm
P → A	CV:0.008
A → R	CV:0.01
Lubrication	Without

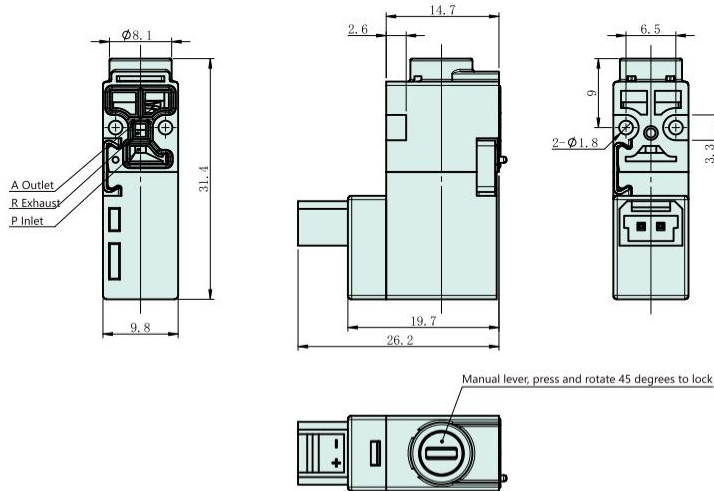
Coil Specification

Wiring	Vertical (L) M8 thread type
*Standard Voltage	DC24V / 12V
Power	0.85W/0.3W After saving energy
Insulation Grade	H
Life Cycle	> 50 million times
Indicator	LED Yellow
Working Frequency	> 30Hz
Response Time	6~8ms
Protection	Dust-proof

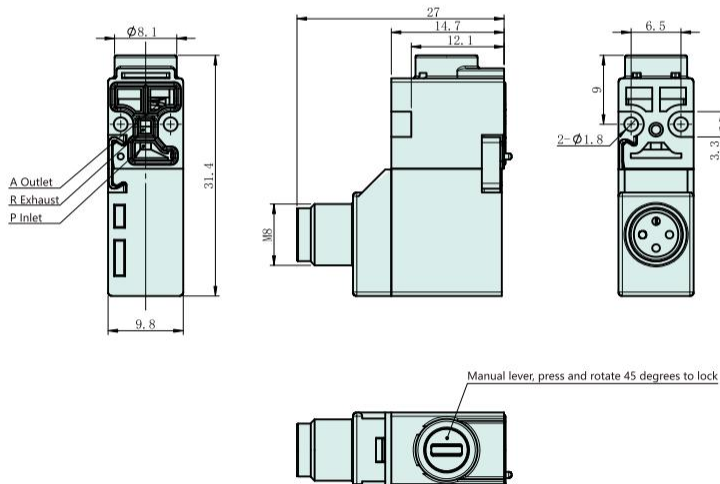
*Note: The valve won't work when polarity reversed

Overall Dimension

JEL10 Mini Valve



JEL10 Mini Valve (M8)



3VJZF Series

3/2 Way Stop Solenoid Valve



3AJZF-15



3VJZF-25

Ordering Code

3V	JZF	15	AS	AC110V	W
Specification	Stop Type	Port Size	Operation	Standard Voltage	Wiring
3V: 3/2 way solenoid valve 3A: 3/2 way air pilot valve		15: G1/2" 20: G3/4" 25: G1"	Blank: Internal Piloted AS: External Piloted	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	LD: Brown with light terminal W: Lead wire

Specification

Model	3VJZF-15	3VJZF-25/20	3AJZF-15	3AJZF-25/20
Working Medium	Air			
Operation	Stop Type			
Orifice	16mm	25mm	16mm	25mm
Port Size	G1/2"	G1"/ G3/4"	G1/2"	G1"/ G3/4"
Working Pressure	0 ~ 1.0MPa			
Max. Test Pressure	1.5MPa			
Operating Voltage Tolerance	±10%			
Material of Body	Aluminum			

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3VJZF Series

3/2 Way Stop Solenoid Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

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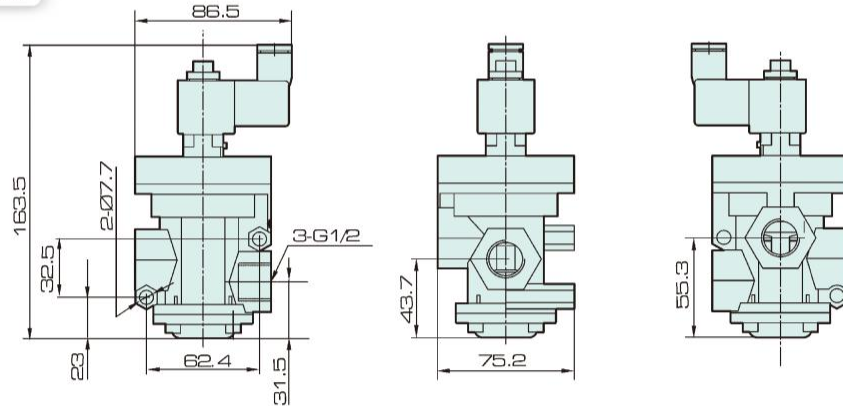
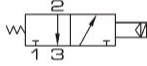
QE, QEA

ST

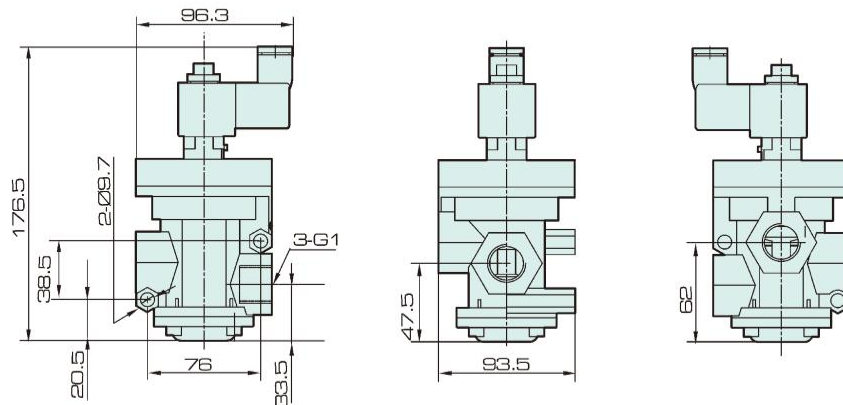
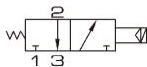
HSV

Overall Dimension

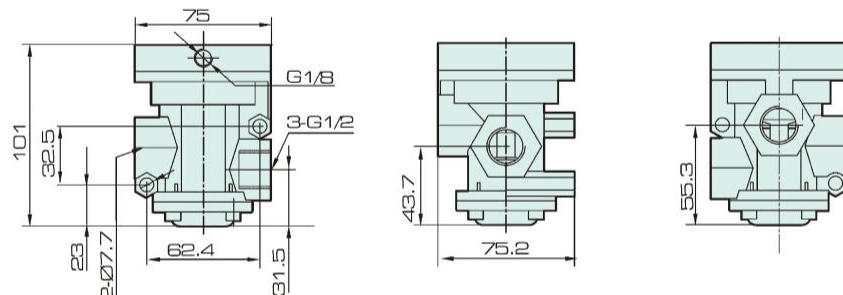
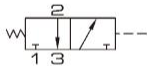
3VJZF-15



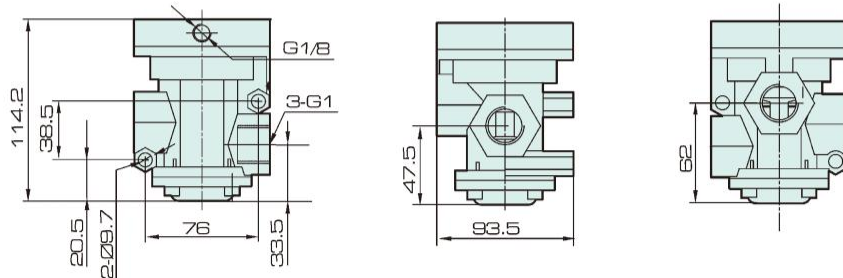
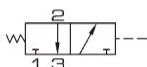
3VJZF-25

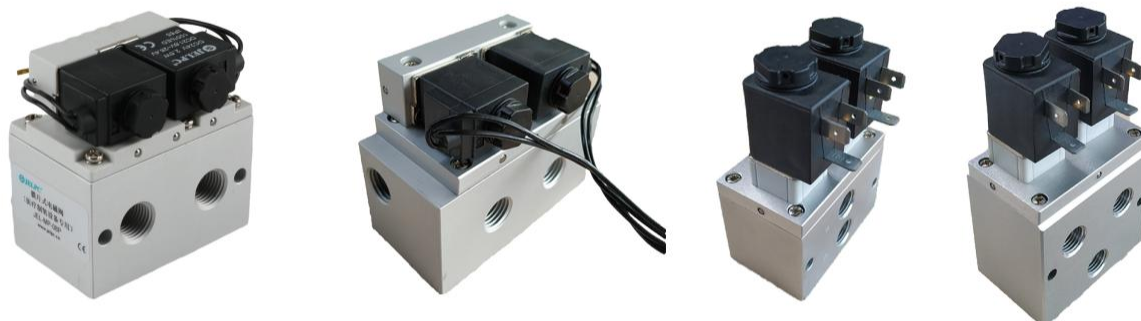


3AJZF-15



3AJZF-25





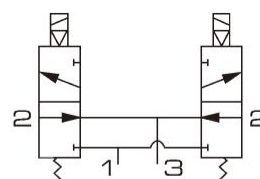
Features

1. Adopt new processing, improved inner hole roughness.
2. Adopt specially formulated silicone to increase of service life.
3. To import German high standard special grease which pro film in order to reduce the friction.
4. Valve spool material use soft magnetic stainless steel from German, increase the magnetic properties and reduce the coil power to 30%.

Ordering Code

JEL	MP	08	□	W
JELPC	Diaphragm	Port Size 08:G1/4"	Coil Size Blank:22mm coil P:18mm coil	Wing W:Lead wire Blank: Pins

Symbol



Specification

Model	JEL-MP-08		
	Blank	P	
Valve Type	4/2 Way		
Power	3W	1.5W	2.5W
Working Medium	40 Micron Filtered Air		
Operation	Internal Piloted		
Working Pressure	0.08 ~ 0.35MPa		
Ambient Temperature	-5 ~ 80°C		
Protection Class	F Class, IP 65		

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF

Diaphragm

JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

JEL Series

Diaphragm Solenoid Valve



Valve

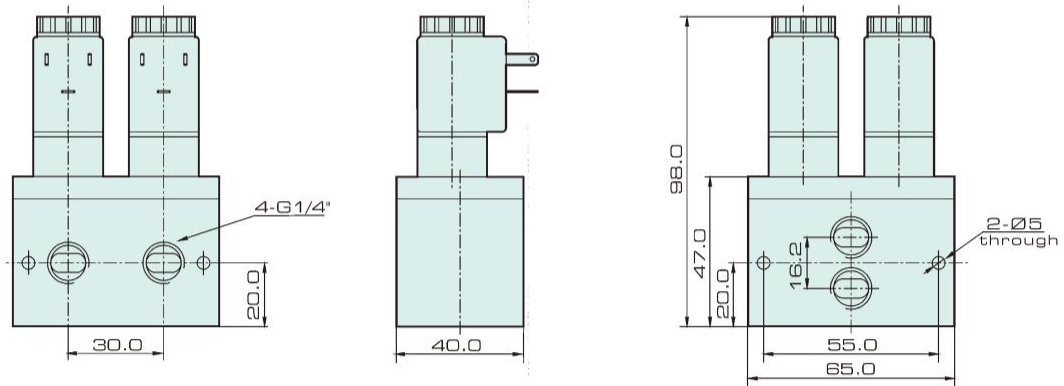
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF

Diaphragm

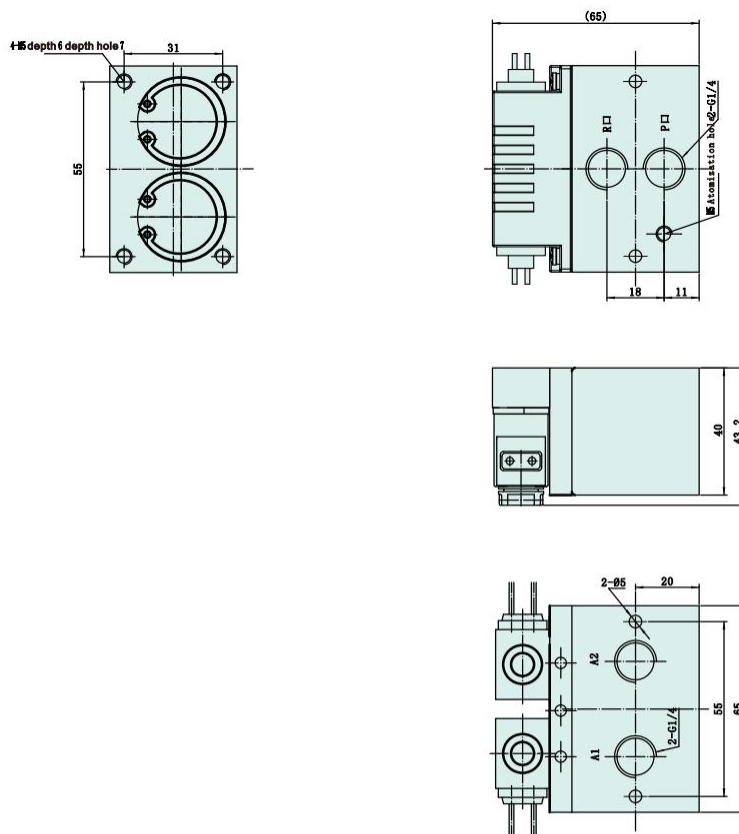
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Overall Dimension

JEL-MP-08

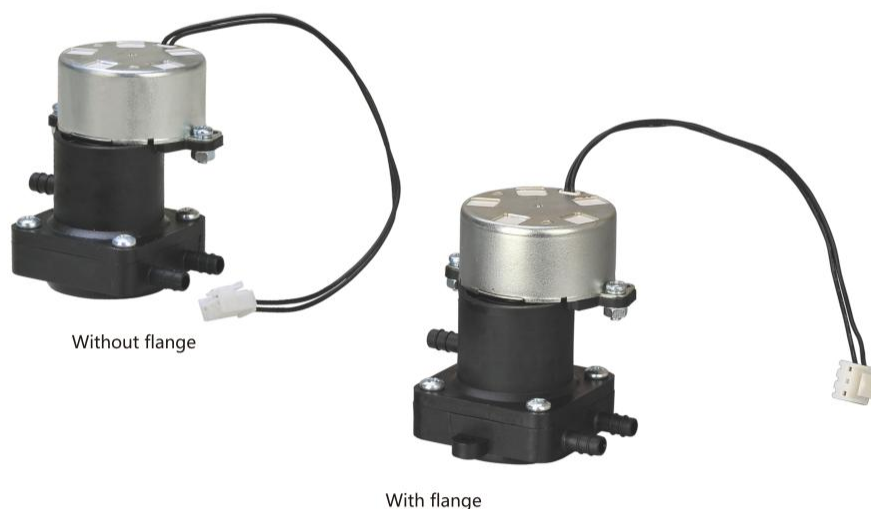


JEL-MP-08-P



Features

1. Body with ceramic sliding structure to be abrasive and long service life.
2. Be able to work with 0 pressure or small flow condition with synchronous motor, without starting pressure.
3. To optimize internal structure to be max flow to satisfy with operating requirements of 0.5 ~ 5L/min oxygen concentrator.
4. Low consumption, to save energy.



Ordering Code

JELVD	J2	9
I	I	I
Model	Mounting Type	RPM
JELVD Series	J1: Flange	9: 9 RPM
	J2: Inserting	5: 5 RPM

Specification

Valve type	JELVD Rotary Valve
Fluid	40μm filtered air
Working Pressure	0~0.25MPa
Max Pressure	0.4MPa
Speed	5r/min 8r/min (optional)
Flow Feature	Input: 0.2MPa, Output: 0.1MPa 360L/min (ANR)
Ambient And Fluid Temperature	-5 ~ +80°C (non-frozen)
Fixing Form	Optional
Main Parts Material	6061, PA6, Silicon rubber, NBR, 304
Voltage	AC220V 50Hz
Voltage Tolerance	±10%
Humidity	RH20% ~ 80%
Un-loading Consumption	≤3W
Insulation Grade	E

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm

JELVD

3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

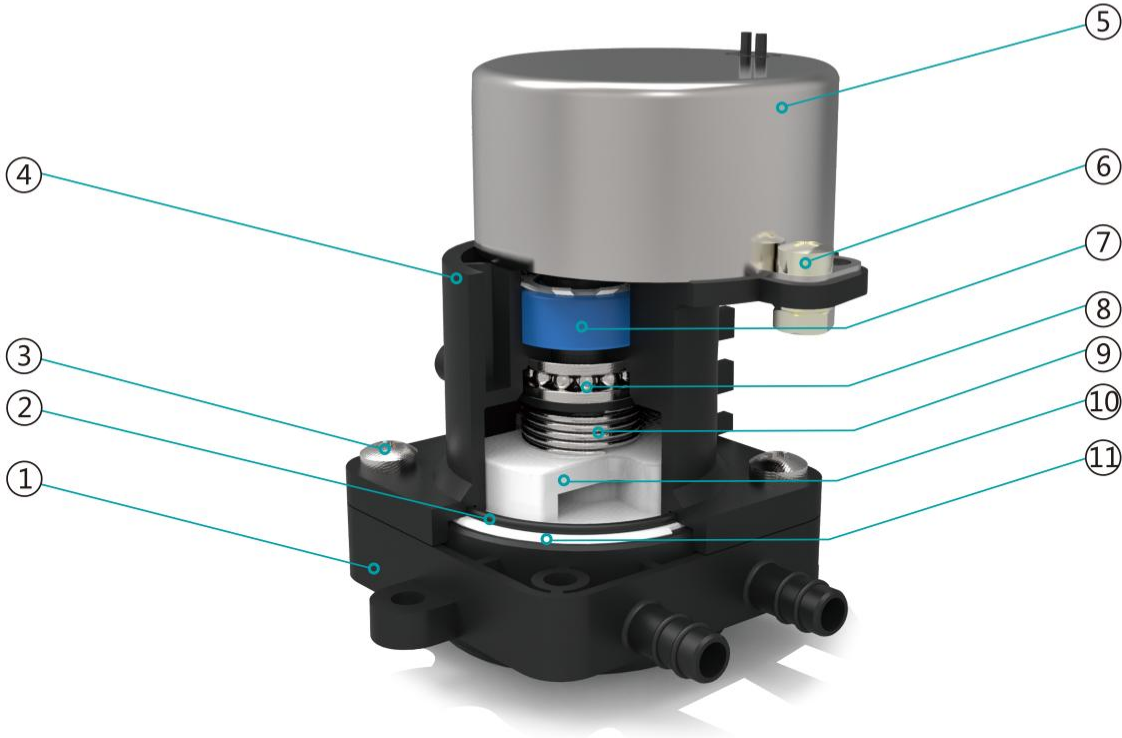
JELVD Series

Rotary Valve



- Valve
- J4V
- J4V100
- J4V200
- J4V300
- J4V400
- Manifold
- JSY
- Terminal
- JVT
- JEL
- MVSD
- VF
- NAMUR
- 551
- JEL10
- 3VJZF
- Diaphragm
- JELVD
- 3V1
- Coil
- 2P
- 2V
- 2W
- 2W(big)
- 2L
- VX
- PU
- PU225
- 2Q
- JEL5404
- JEL6213
- Pulse
- JELJZF
- 4H
- TSV
- MPV
- 4HV
- HV, K
- 4R
- 4F210
- FV
- MSV
- JM
- ASC, RE
- QE, QEA
- ST
- HSV

Internal Structure

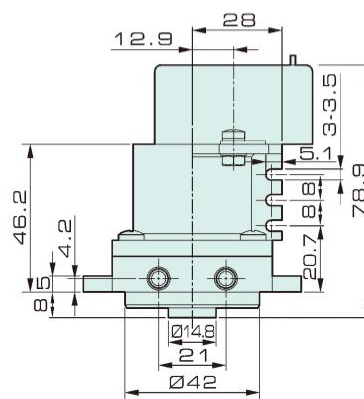
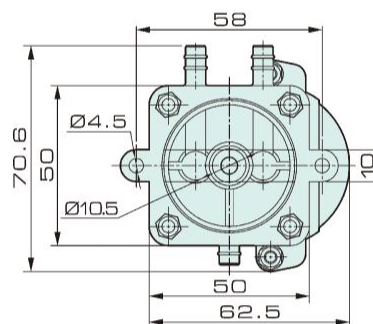
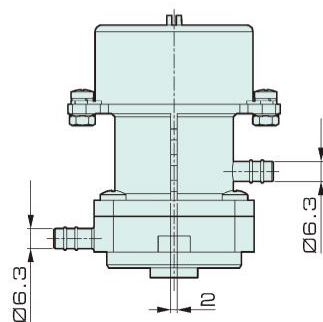


Parts

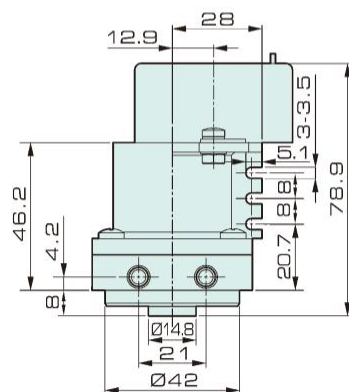
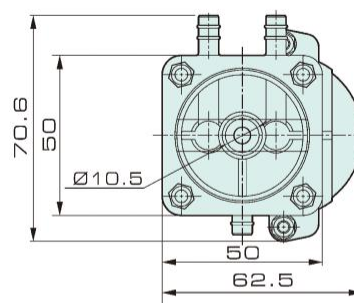
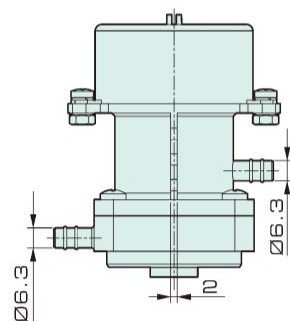
Number	Name	Number	Name
1	End cap	7	Coupling
2	O ring	8	Bearing
3	Screw	9	Spring
4	Top body	10	Top disc
5	Motor	11	Bottom disc
6	Screw		

Overall Dimension

JELVD-J1



JELVD-J2



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

3V1 Series

Solenoid Valve



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD

3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV



3V1-06-4F



3V1-06



3V1-06A

Features

1. We guarantee inner hole roughness within our new processing.
2. Can be assembling with many joints.
3. To import German soft magnetic stainless steel to improve the magnetic performance and reduce coil capacity 30% .

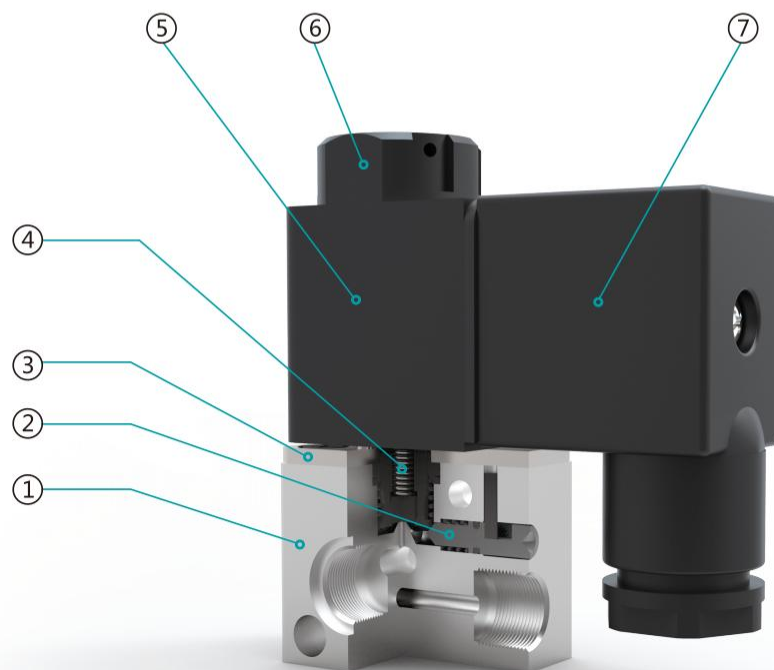
Ordering Code

3V	1	06	B	AC220V	W	F
Specification	Series Code	Port Size	Connecting Type	Standard Voltage	Wiring	Joint
3V: 3/2 way	1: 100 Series	M5: M5 06: 1/8"	Blank: Pipe type B: Plate type A: Diecast body	DC12V DC24V AC24V AC110V AC220V	LD: Brown with light terminal W: Lead wire	1F-20F

Specification

Model	3V1-M5	3V1-06(B/A)-NC
Working Medium	40 Micron Filtered Air	
Operation	Direct	
Port Size	M5	1/8" (Without or G1/8")
Ambient Temperature	-10 ~ +60°C	
Gas Temperature	5 ~ 60°C	
Air Outlet Diameter	1.0mm	
Lubrication	Not Required	
Working Pressure	0 ~ 0.8 MPa	
Max. Test Pressure	1.2 MPa	
Power Consumption	AC: 5.5VA DC: 4.8W	
Protect Class	IP65	
Wiring / Connector	Cable / Lead Wire or DIN Connector	
Material of Body	Aluminum Alloy	
Switching Frequency	10 Cycles / Sec.	
Insulation	F Class	
Operating Voltage Tolerance	±10%	
Response Time	0.05 Sec.	
Flow Aperture	Ø1mm	

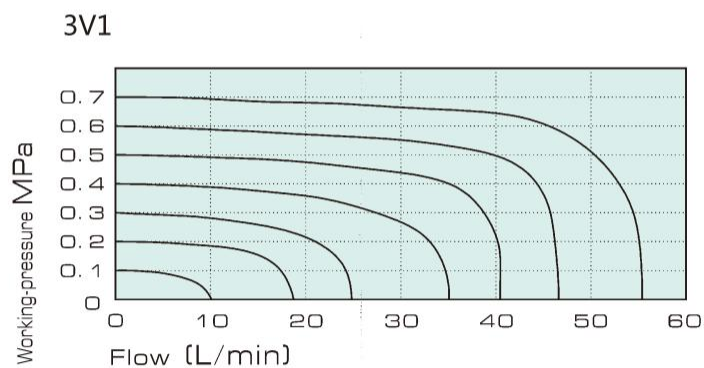
Internal Structure



Parts

Number	Name	Number	Name
1	Valve body	5	Coil
2	Manual ride spindle	6	Coil nut
3	Connecting part	7	Terminal
4	Solenoid plunger		

Flow Chart



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

3V1 Series

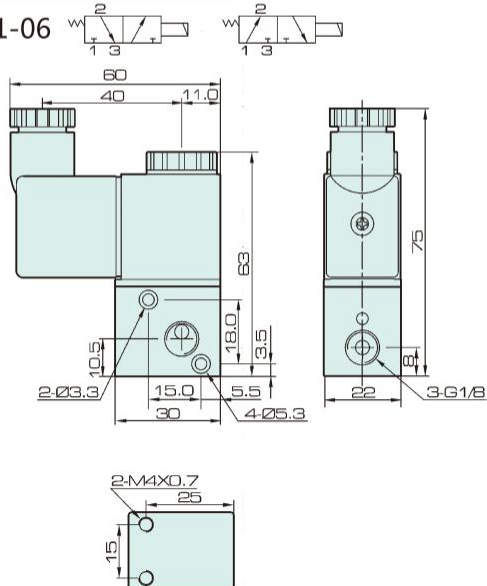
Solenoid Valve



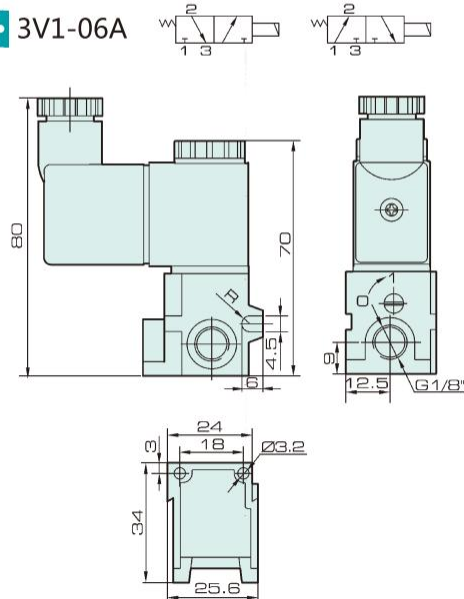
Valve
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Overall Dimension

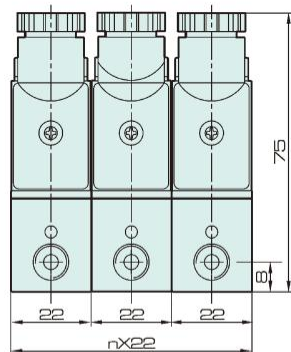
3V1-06



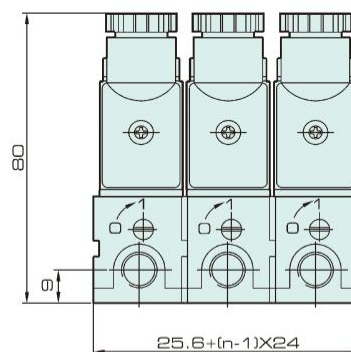
3V1-06A



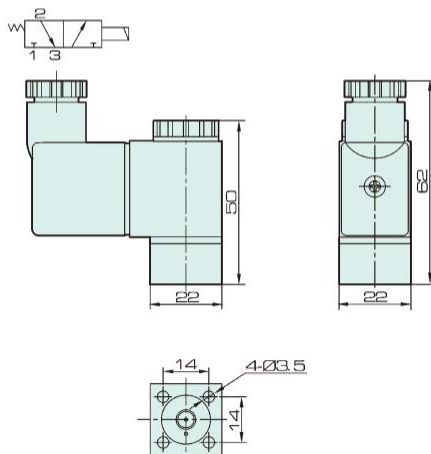
3V1-06-nF



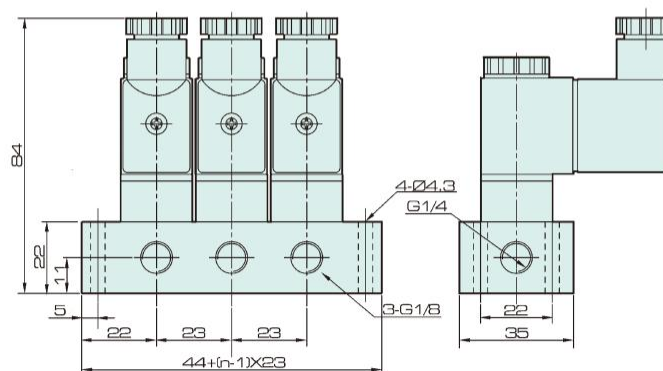
3V1-06A-nF



3V1-06B



3V1-06B-nF



Coil



▲ Water-proof connector

Ordering Code

100C	AC220V	W
Specification	Standard Voltage	Wiring Type
100C: Coils for 100 Series	DC12V DC24V	Blank: Standard Connector
200C: Coils for 200/300/400 Series	AC24V 50Hz/60Hz	LD: Brown with Light Terminal
	AC110V 50Hz/60Hz	LD1: White with Light Terminal
	AC220V 50Hz/60Hz	W: Lead Wire
	AC380V 50Hz/60Hz	

There are thermosetting type and thermoplastic type are available for option of coil.

Specification

*Amisco (Italy) or NASS (Germany) coil is available.

Model	100C	200C
Power	DC:2.5W AC:2.5VA	AC: 3.5VA DC: 3W
Operation	100% ED	
Working Voltage	AC:24V, 110V, 220V, 380V DC:12V, 24V	
Ambient Temperature	-30°C ~ 70°C	
Protect Class	IP65	
Insulation Class	F Class	
Wiring Form	Lead Wire Type, Connector Type	

* Customized power is available.

Seal Ring

*The key seals are imported from Japan or Germany.



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

2P Series

2/2 Way Solenoid Valve
(Direct Operated)

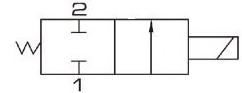


2P025-08-J

Ordering Code

2P	025	06	AC110V	W
Specification	Orifice Size	Port Size	Standard Voltage	Wiring
2P: 2/2 way	025: 2.5mm	06: 1/8" 08: 1/4"	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	J: Terminal W: Lead wire

Symbol

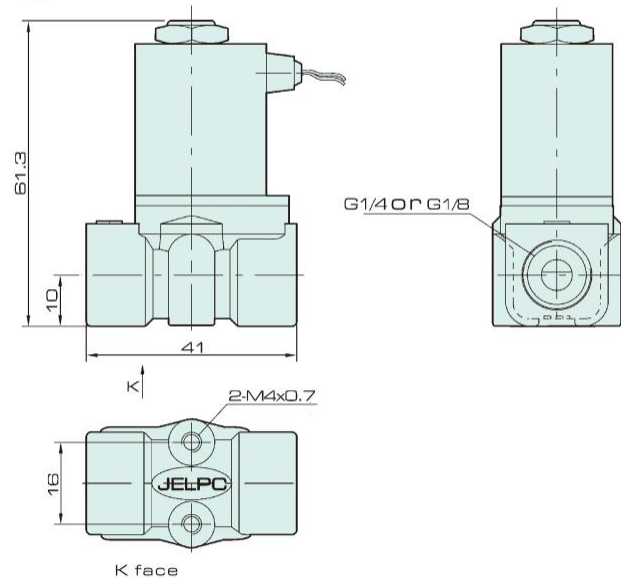


Specification

Model	2P025-06	2P025-08
Working Medium	Air, Water, Oil, Gas	
Operation	Direct	
Type	Normal Close	
Orifice	2.5mm	
CV Value	0.23	
Port Size	1/8"	1/4"
Operation Fluid Viscosity	Below 20 CST	
Working Pressure	0 ~ 0.7MPa	
Max. Test Pressure	1.0MPa	
Max. Ambient Temperature	-10 ~ 80°C	
Operating Voltage Tolerance	±10%	
Material of Body	Engineering Plastic	
Material of Oil Seal	NBR or VITON	

Overall Dimension

2P Series





2V010-M4-W



2V025-06T



2V025-08-J

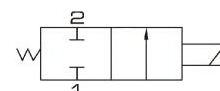


2V130-15-J

Ordering Code

2V	025	06	AC110V	V	J
Specification	Orifice Size	Port Size	Standard Voltage	Sealing	Wiring
2V: 2/2 way	010: 1.0mm 025: 2.5mm 130: 13mm 250: 25mm	M4:M4×0.7 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2" 20: 3/4" 25: 1"	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	Blank: NBR V: Viton (for high temperature gas)	J: Terminal W: Lead wire

Symbol



Specification

Model	2V010-M4	2V025-06	2V025-08	2V130-10	2V130-15	2V250-20	2V250-25
Working Medium	Air, Water, Oil						
Operation	Direct			Internal piloted			
Type	Normal Close						
Orifice	1.0mm	2.5mm		13mm		25mm	
CV Value	0.04	0.23		6.2		23	
Port Size	M4×0.7	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Operation Fluid Viscosity	Below 20 CST						
Working-pressure	0.05 ~ 0.7 MPa						
Max. Test Pressure	1.2MPa	1.6MPa		1.0MPa			
Max. Ambient Temperature	-10 ~ 80℃						
Operating Voltage Tolerance	±10%						
Protect Class	IP65						
Power Consumption	AC:6.5VA DC:6.5W						
Insulation	F Class						
Material of Body	Aluminum or Brass (Nickel Plated)			Brass			
Material of Oil Seal	NBR Or VITON			NBR Or VITON			
Response Time	0.05 Sec.						

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P

2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

2V Series

2/2 Way Solenoid Valve

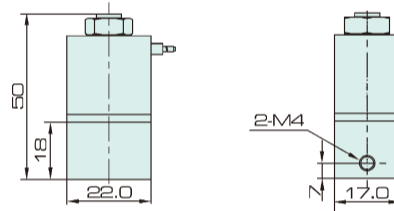


Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

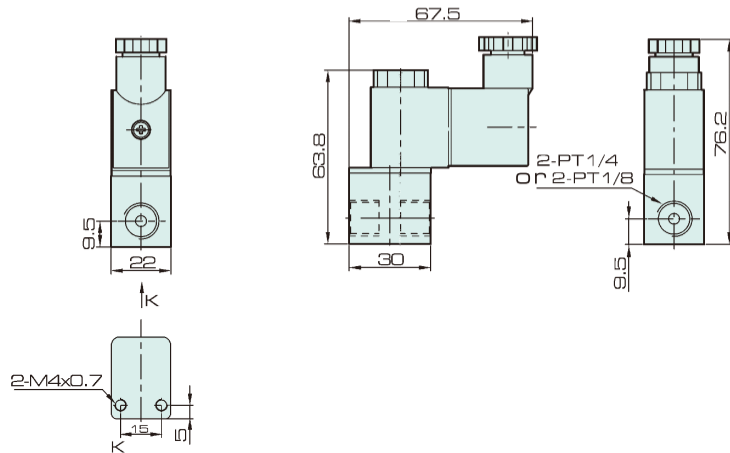
Overall Dimension

2V010-M4



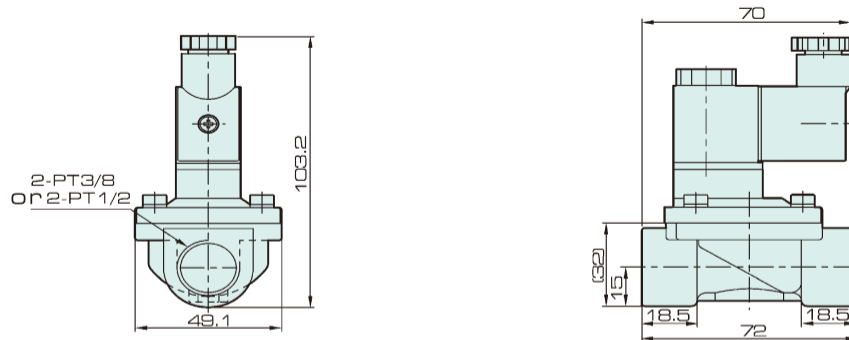
2V025-06

2V025-08



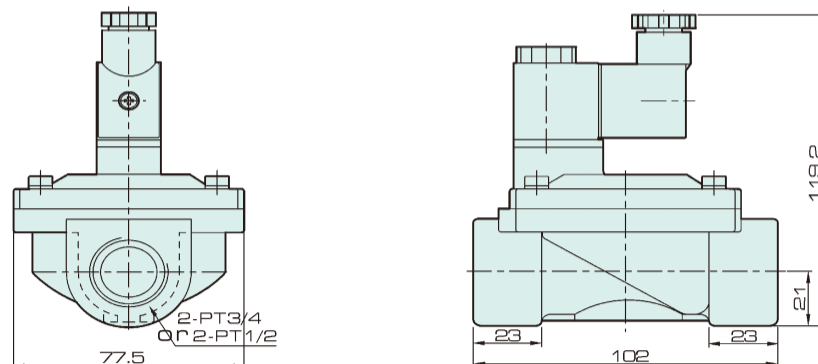
2V130-10

2V130-15



2V250-20

2V250-25



ISO9001 CE IATF16949

2W Series

2/2 Way Solenoid Valve (Direct Operated)



2W025-08-W

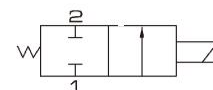


2W040-10-W

Ordering Code

2W	025	08	AC110V	E	J
Specification	Orifice Size	Port Size	Standard Voltage	Sealing	Wiring
2W: 2/2 way brass body	012: 1.2mm	M4:M4×0.7	DC12V DC24V	Blank: NBR	J: Terminal
2WH: 2/2 way brass body high pressure	020: 2mm	06: 1/8"	AC24V 50Hz/60Hz	E: EPDM (for steam)	W: Lead wire
2S: 2/2 way stainless steel body	025: 2.5mm	08: 1/4"	AC110V 50Hz/60Hz	V: VITON (for high temperature gas and vacuum)	
2SH: 2/2 way stainless steel body high pressure	040: 4mm	10: 3/8"	AC220V 50Hz/60Hz AC380V 50Hz/60Hz		

Symbol



Specification

Model	2W025-06	2W025-08	2W040-10	2WH012-06	2WH012-08	2WH020-10
	2S025-06	2S025-08	2S040-10	2SH012-06	2SH012-08	2SH020-10
Working Medium	Air, Water, Oil, Gas			Air, Water, Oil		
Operation	Direct					
Type	Normal Close					
Orifice	2.5mm		4mm	1.2mm		2mm
CV Value	0.23		0.60	0.05		0.15
Port Size	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"
Operation Fluid Viscosity	Below 20 CST					
Working Pressure	0 ~ 0.7MPa			0 ~ 2.0MPa		
Max. Test Pressure	1.0MPa			3.5MPa		
Max. Ambient Temperature	-10 ~ 80℃					
Operating Voltage Tolerance	±10%					
Material of Body	2W: Brass 2S: Stainless Steel					
Material of Oil Seal	NBR, EPDM or VITON					

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

2W (Large Port) Series

2/2 Way Solenoid Valve

(Direct Operated)



2W200-20-W



2W400-40-W



2W500-50-W



2S160-15-W



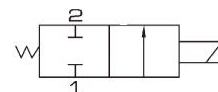
2S350-35-W

Ordering Code

2W	160	15	AC110V	V	J
↓	↓	↓	↓	↓	↓
Specification	Orifice Size	Port Size	Standard Voltage	Sealing	Wiring
2W: 2/2 Way Solenoid Valve (Direct Operated)	160: 16mm 200: 20mm	10: 3/8" 15: 1/2"	DC12V DC24V AC24V 50Hz/60Hz	Blank: NBR V: VITON (for high temperature gas and vacuum)	J: Terminal W: Lead wire
2S: 2/2 Way Stainless Steel Solenoid Valve (Direct Operated)	250: 25mm 350: 35mm 400: 40mm 500: 50mm	20: 3/4" 25: 1" 35: 1 1/4" 40: 1 1/2" 50: 2"	AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz		

* In addition normally open optional.

Symbol



Specification

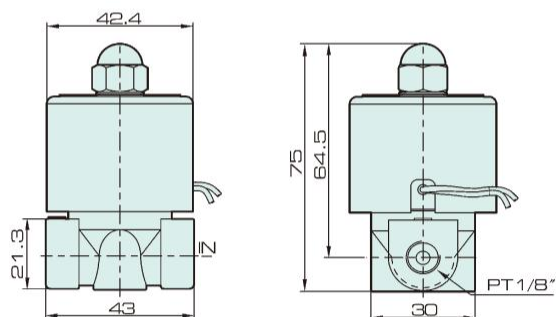
Model	2W160-10	2W160-15	2W200-20	2W250-25	2W350-35	2W400-40	2W500-50
	2S160-10	2S160-15	2S200-20	2S250-25	2S350-35	2S400-40	2S500-50
Working Medium	Air, Water, Oil						
Operation	Direct						
Type	Normal Close (Normal open optional)						
Orifice	16 mm		20 mm	25 mm	35 mm	40 mm	50 mm
CV Value	4.8		7.6	12	24	29	48
Port Size	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Operation Fluid Viscosity	Below 20 CST						
Working Pressure	Air 0 ~ 0.7 MPa; Water 0 ~ 0.5 MPa; Oil 0 ~ 0.5 MPa						
Max. Test Pressure	1.0MPa						
Max. Ambient Temperature	-10 ~ 80°C						
Operating Voltage Tolerance	±10%						
Material of Body	2W: Brass 2S: Stainless Steel						
Material of Oil Seal	NBR, EPDM or VITON						

2W (Large Port) Series

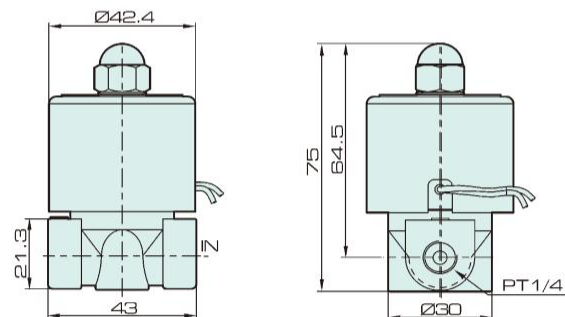
2/2 Way Solenoid Valve (Direct Operated)

Overall Dimension

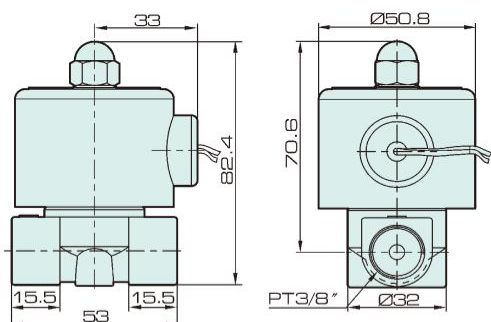
2W025-06 & 2WH012-06



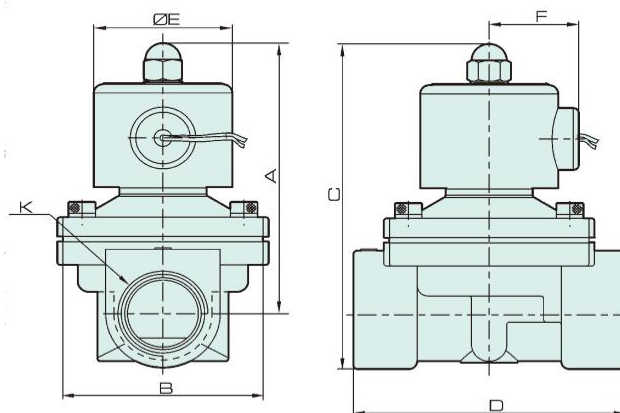
2W025-08 & 2WH012-08



2W040-10 & 2WH20-10



2W Big Caliber



Dimension

Model	A	B	C	D	E	F	K
2W160-10	101.5	57	117	69	50	36	PT3/8□
2W160-15	101.5	57	117	69	50	36	PT1/2□
2W200-20	107	57	123.5	73	50	36	PT3/4□
2W250-25	111.5	73.5	134.5	99	50	36	PT1□
2W350-35	142	95	172	123	70.5	56	PT1 1/4□
2W400-40	142	95	172	123	70.5	56	PT1 1/2□
2W500-50	172	123	209	168	70.5	56	PT2□

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

2L Series

2/2 Way Solenoid Valve



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV



2L170-15-W



2L170-20-W



2L200-25-W

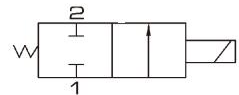


2L300-40-W

Ordering Code

2L	170	15	AC110V	J
↓	↓	↓	↓	↓
Specification	Orifice Size	Port Size	Standard Voltage	Wiring
2L: 2/2 Way for Steam	170: 17mm 200: 22mm 300: 30mm 500: 50mm	10: 3/8" 15: 1/2" 20: 3/4" 25: 1" 35: 1 1/4" 40: 1 1/2" 50: 2"	DC12V DC24V AC24V 50Hz/60Hz AC110V 50Hz/60Hz AC220V 50Hz/60Hz AC380V 50Hz/60Hz	J: Terminal W: Lead wire

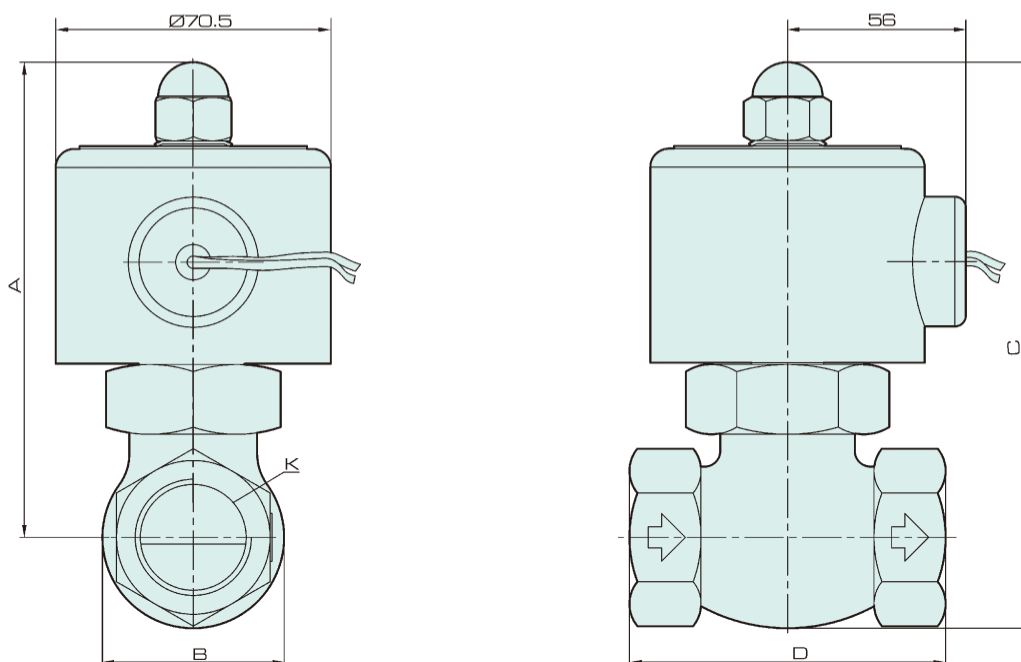
Symbol



Specification

Model	2L170-10	2L170-15	2L170-20	2L200-25	2L300-35	2L300-40	2L500-50
Working Medium	Air, Water, Steam						
Operation	Direct						
Type	Normal Close						
Orifice	17mm			22mm	30mm		50mm
CV Value	4.8			12	20		48
Port Size	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Operation Fluid Viscosity	Below 20 CST						
Working Pressure	0.1 ~ 1.5 MPa						
Max. Test Pressure	2.25MPa						
Max. Ambient Temperature	-10 ~ 180 °C						
Operating Voltage Tolerance	±10%						
Material of Body	Brass						
Material of Oil Seal	PTFE						

Overall Dimension



Dimension

Model	A	B	C	D	K
2L170-10	125	42	146	82	PT3/8"
2L170-15	125	42	146	82	PT1/2"
2L170-20	125	42	146	82	PT3/4"
2L200-25	136	52	162	90.5	PT1"
2L300-35	148	74	185	111	PT1 ¹ / ₄ "
2L300-40	148	74	185	111	PT1 ¹ / ₂ "
2L500-50	176	86	223	163	PT2"

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

VX Series

2/2 Way Solenoid Valve
(Direct Operated)



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV



VX2120-08-W

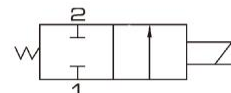


VX2120-15-W

Ordering Code

VX2120	08	AC220V	J
Specification	Orifice Size	Standard Voltage	Wiring
	06: 1/8"	DC12V DC24V	J: Terminal
	08: 1/4"	AC24V 50Hz/60Hz	W: Lead wire
	10: 3/8"	AC110V 50Hz/60Hz	
	15: 1/2"	AC220V 50Hz/60Hz	
		AC380V 50Hz/60Hz	

Symbol

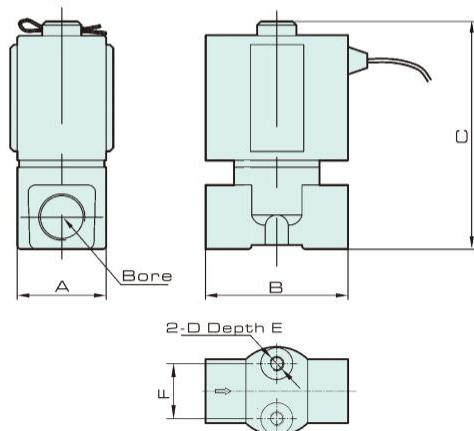


Specification

Model	VX2120-06	VX2120-08	VX2120-10	VX2120-15
Working Medium	Air, Water, Steam			
Operation	Direct			
Type	Normal Close			
Max. Test Pressure	1.05MPa			
Working Pressure	0 ~ 1.0MPa			
Orifice	3mm		13mm	
Port Size	1/8"	1/4"	3/8"	1/2"
Max. Ambient Temperature	-10 ~ 150°C		-10 ~ 80°C	
Material of Oil Seal	VITON		NBR	

Overall Dimension

VX



Dimension

Model	Bore	A	B	C	D	E	F
VX2120-06	PT1/8	25	40	64	M4	8	15.5
VX2120-08	PT1/4	25	40	64	M4	8	15.5
VX2120-10	PT3/8	48	68	110	-	-	-
VX2120-15	PT1/2	48	68	110	-	-	-

ISO9001 CE IATF16949

PU Series

2/2 Way Solenoid Valve (Direct Operated)



PU220-04-J



PU220-06-J

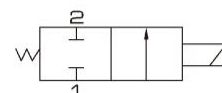


PU220-08-J

Ordering Code

PU	220	01	AC110V	E	J
Specification	Operation	Port Size	Standard Voltage	Sealing	Wiring
PU 2/2 Way	220: Direct	01: 1/8"	DC12V DC24V	Blank: NBR	J: Terminal
		02: 1/4"	AC24V 50Hz/60Hz	E: EPDM for steam	W: Lead wire
		03: 3/8"	AC110V 50Hz/60Hz	V: VITON (for high temperature, gas, vacuum)	
		04: 1/2"	AC220V 50Hz/60Hz		
		06: 3/4"	AC380V 50Hz/60Hz		
		08: 1"			

Symbol

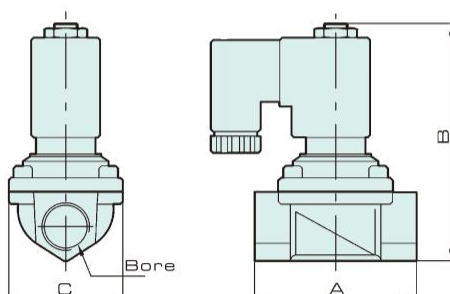


Specification

Model	PU220-01	PU220-02	PU220-03	PU220-04	PU220-06	PU220-08
Working Medium	Air, Water, Oil					
Operation	Direct					
Type	Normal Close					
Orifice	1.5mm	2.3mm	8.0mm	13mm	20mm	25mm
CV Value	0.10	0.18	1.00	4.00	8.60	11.00
Port Size	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Operation Fluid Viscosity	Below 50 CST					
Working Pressure	0 ~ 0.7MPa					
Max. Test Pressure	1.05MPa					
Max. Ambient Temperature	-10 ~ 80°C					

Overall Dimension

PU



Dimension

Model	Bore	A	B	C
PU220-01	PT1/8	22	72	22
PU220-02	PT1/4	35	75.5	25.4
PU220-03	PT3/8	55	79.5	30
PU220-04	PT1/2	66.5	101	48
PU220-06	PT3/4	71	107	48
PU220-08	PT1	96	120	70

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

PU Series

Solenoid Valve (For Steam)



PU225-04S-J

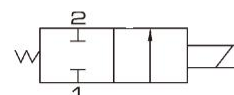


PU225-04S-J

Ordering Code

PU	225	03	S	AC220V	J
Specification	Operation	Port Size	Fix Form	Standard Voltage	Wiring
PU: 2/2 way	225: Internal	03: 3/8"	S: Steam	AC220V	J: Terminal
		04: 1/2"		AC110V	W: Lead wire
		06: 3/4"		DC12V	
		08: 1"		DC24V	

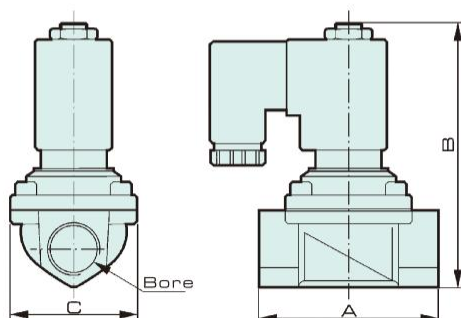
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Specification

Model	PU225-03S	PU225-04S	PU225-06S	PU225-08S
Working Medium	Air, Water, Oil, Gas			
Operation	Internal Piloted			
Type	Normal Close			
Orifice	13mm	13mm	25mm	25mm
CV Value	4.50	4.50	12.00	12.00
Port Size	3/8"	1/2"	3/4"	1"
Operation Fluid Viscosity	50 CST			
Working Pressure	0.05 ~ 1.0MPa			
Max. Test Pressure	1.5MPa			
Ambient Temperature	-10 ~ 185°C			

Overall Dimension



Dimension

Model	Bore	A	B	C
PU225-03S	PT3/8"	66.5	122.7	48.0
PU225-04S	PT1/2"	66.5	122.7	48.0
PU225-06S	PT3/4"	100.0	152.0	70.0
PU225-08S	PT1"	100.0	152.0	70.0



PU225-04-J



PU225-06-J



PU225-08-J



SPU225-06-J

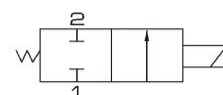


SPU225-20-J

Ordering Code

PU	225	03	A	AC220V	J
Specification	Operation	Port Size	Fix Form	Standard Voltage	Wiring
PU: 2/2 way	225: Internal piloted	03: 3/8"	A: Standard type	AC220V	J: Terminal
SPU: 2/2 way		04: 1/2"	F: Flange install	AC110V	W: Lead wire
Stainless steel		06: 3/4"		DC12V	T: Coil with time
		08: 1"		DC24V	
		12: 1 1/4"			
		14: 1 1/2"			
		20: 2"			

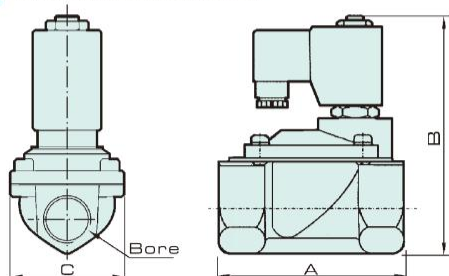
Symbol



Specification

Model	PU225-03A	PU225-04A	PU225-06A	PU225-08A	PU225-12A	PU225-14A	PU225-20A
	SPU225-03A	SPU225-04A	SPU225-06A	SPU225-08A	SPU225-12A	SPU225-14A	
Working Medium	Air, Water, Oil						
Operation	Internal Piloted						
Type	Normal Close						
Orifice	13mm	13mm	25mm	25mm	38mm	38mm	50mm
CV Value	4.50	4.50	12.00	12.00	22.00	30.00	48
Port Size	3/8"	1/2"	3/4"	3/4"	1 1/4"	1 1/2"	2"
Medium of Body	Brass or Steel						
Operation Fluid Viscosity	Below 50 CST						
Working Pressure	0.05 ~ 1.0MPa						
Max. Test Pressure	1.5MPa						
Ambient Temperature	-10 ~ 80°C						

Overall Dimension



Dimension

Model	Bore	A	B	C	Model	Bore	A	B	C
PU225-03A	PT3/8"	66	106	48	PU225-12 A	PT1 1/4"	127	140	95
SPU225-03A					SPU225-12A				
PU225-04A	PT1/2"	66	106	48	PU225-14A	PT1 1/2"	127	140	95
SPU225-04A					SPU225-14A				
PU225-06A	PT3/4"	75	112	58	PU225-20A	PT2"	180	159	114
SPU225-06A									
PU225-08A	PT1"	97	124.5	70					
SPU225-08A									

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

2Q Series

2/2 Way Valve



2Q200-25

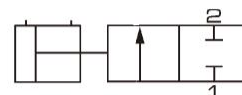


2Q500-50

Ordering Code

2Q	200	25
Specification	Orifice Size	Port Size
2Q: 2/2 Way Air Control	200: 22mm	25: 1"
	350: 35mm	40: 1 1/2"
	500: 50mm	50: 2"

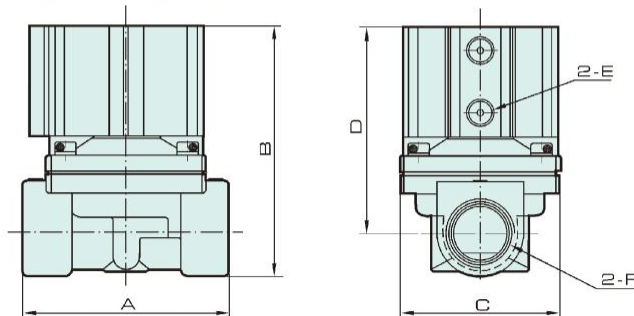
Symbol



Specification

Model	2Q200-20	2Q200-25	2Q350-40	2Q500-50
Working Medium	Air, Water, Oil, Gas			
Operation	Direct			
Orifice	22mm	22mm	35mm	50mm
CV Value	12	12	24	48
Port Size	3/4"	1"	1 1/2"	2"
Operation Fluid Viscosity	Below 50 CST			
Applied Pressure Range	0~0.7MPa			
Max. Test Pressure	1.05MPa			
Control Pressure Range	0.3~0.6MPa			
Ambient Temperature Range	-10~100°C			
Material of Body	Brass			
Material of Oil Seal	PTFE			
Control Port Size	2-G1/8"	2-G1/8"	2-G1/4"	2-G1/4"

Overall Dimension



Dimension

Model	A	B	C	D	E	F
2Q200-20	99	116	57	95	G1/8"	PT3/4"
2Q200-25	99	116	57	95	G1/8"	PT1"
2Q350-40	123	146	95	116	G1/4"	PT1 1/2"
2Q500-50	170	155	118	114	G1/4"	PT2"

ISO9001 CE IATF16949

JEL5404 Series

High Pressure and Temperature Solenoid Valve



JEL5404-04-W



JEL5404-06-W



JEL5404-08-W

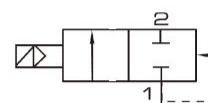


JEL5404-06-J

Ordering Code

JEL	5404	04	AC220V	J
JELPC	Model	Port Size	Standard Voltage	Wiring
		04: 1/2"	DC12V DC24V	J: Terminal
		06: 3/4"	AC24V 50/60Hz	W: Lead wire
		08: 1"	AC110V 50/60Hz	
			AC220V 50/60Hz	
			AC380V 50/60Hz	

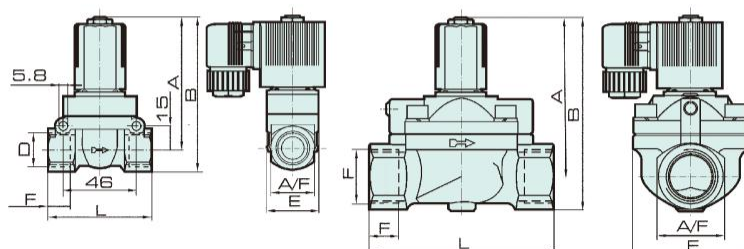
Symbol



Specification

Model	JEL5404-04		JEL5404-06		JEL5404-08	
Working Medium	Air, Water, Oil					
Operation	Internal Piloted					
Type	Normal Colse					
Orifice	12mm		20mm		25mm	
KV Value	2.0		5.0		10.0	
Port Size	1/2"		3/4"		1"	
Applied Pressure Range	Gas / Liquid: 0.1 ~ 5.0 MPa	Gas: 0.1 ~ 4.0 MPa	Liquid: 0.1 ~ 2.5 MPa	Gas: 0.1 ~ 4.0MPa	Liquid: 0.1 ~ 2.5MPa	
Max. Test Pressure	7.5MPa		6.0MPa			
Ambient Temperature Range	-10~150°C					
Applied Voltage Range	±10%					
Protection	IP65					
Power Consumption	AC:5.5VA DC:9W					
Insulation	F Class					
Material of Body	Brass					
Material of Oil Seal	PTFE					

Overall Dimension



Dimension

Model	Orifice mm	Port Size	A	B	F	D	L	A/F
JEL5404-04	12.0	PT1/2"	83.0	95.5	14	32	65	27
JEL5404-06	20.0	PT3/4"	99.5	119	16	60	92	40
JEL5404-08	25.0	PT1"	99.5	119	16	60	92	40

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QE4

ST

HSV

JEL6213 Series

Solenoid Valve



JEL6213-04-J



JEL6213-06-J

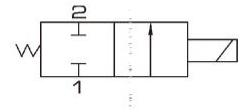


JEL6213-08-J

Ordering Code

JEL	6213	04	AC220V	J
JELPC	Model	Port Size	Standard Voltage	Wiring
		02: 1/4"	DC12V DC24V	J: Terminal
		03: 3/8"	AC24V 50/60Hz	
		04: 1/2"	AC36V 50/60Hz	
		06: 3/4"	AC110V 50/60Hz	
		08: 1"	AC220V 50/60Hz	

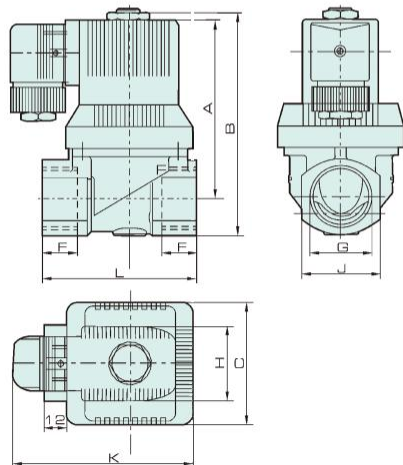
Symbol



Specification

Model	JEL6213-02	JEL6213-03	JEL6213-04	JEL6213-04	JEL6213-06	JEL6213-06	JEL6213-08
Orifice	10mm			14mm		25mm	
Screw Port Size	PT1/4"	PT3/8"	PT1/2"	PT1/2"	PT3/4"	PT3/4"	PT1"
Working Pressure	0.03 ~ 1.0MPa						
Ambient Temperature	-10 ~ +55°C						
Medium Environment	-10 ~ +90°C						
KV Valve	2		3.6	8.3	8.3	11	11
Power	AC(VA)		14				
Consume	DC(W)		8				
Switching Frequency	≥1 Sec			≥0.5 Sec			

Overall Dimension



Dimension

Model	G	C	F	L	J	A	B	H	K
JEL6213-02	PT1/4"	38	14	50	26	71	85	35	71
JEL6213-03	PT3/8"	38	14	50	26	71	85	35	71
JEL6213-04	PT1/2"	38	14	50	26	71	85	35	71
JEL6213-04	PT1/2"	45	16	58	31	82	96	35	80
JEL6213-06	PT3/4"	45	16	58	31	82	96	35	80
JEL6213-06	PT3/4"	65	18	82	41	96	117	35	90
JEL6213-08	PT1"	65	18	82	41	96	117	35	90

Feature

1. Brought in advanced design and improved.
2. Applied for dust clear of compressed air switch in dust cleaning system.
3. Key components materials are imported.
4. Air control type, solenoid type and anti explosion solenoid type are available.
5. Pipe type connecting ensures firmly and reliable installation.



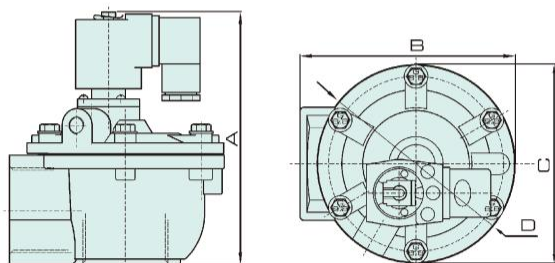
Ordering Code

JEL	Z	20	P	J
JELPC	Z: Vertical type Solenoid Pulse Valve	Bore	Connection Form	Wiring
		Ø20 Ø50	Blank Normal screw	J: Terminal
		Ø25 Ø62	A Tubing+threaded	
		Ø35 Ø76	P Screw	
		Ø40 Ø100	S Double diaphragm	
			J Threaded (economical type)	
			DD Pipe connecting type	

Specification

Model	Working-pressure	Ambient Temperature	Humidity	Applied Medium	Voltage	Diaphragm life	Orifice	Thread
JEL-Z-20A	0.3~0.8MPa	-10~55°C	< 85%		AC110V AC220V DC24V		Ø20	G3/4"
JEL-Z-20P							Ø20	G3/4"
JEL-Z-20							Ø20	G3/4"
JEL-Z-25							Ø25	G1"
JEL-Z-25P							Ø25	G1"
JEL-Z-35P							Ø35	G1 1/2"
JEL-Z-40S							Ø40	G1 1/2"
JEL-Z-50S							Ø50	G2"
JEL-Z-62S							Ø62	G2 1/2"
JEL-Z-76S							Ø76	G3"
JEL-Z-100S							Ø100	Ø100

Overall Dimension



Model	JEL-Z-20A	JEL-Z-20P	JEL-Z-20	JEL-Z-25	JEL-Z-25P	JEL-Z-35P
A	173	124	110	110	124	142
B	145	105	90.5	90.5	105	121
C	-	82.5	75	75	82.5	-
D	Ø90	-	-	-	-	Ø112

Model	JEL-Z-40S	JEL-Z-50S	JEL-Z-62S	JEL-Z-76S	JEL-Z-100S
A	166	202	222	245	356.5
B	132	210	210	230.5	286.5
C	-	-	-	-	-
D	Ø137	Ø185	Ø185	Ø200	Ø221

Valve

J4V
 J4V100
 J4V200
 J4V300
 J4V400
 Manifold
 JSY
 Terminal
 JVT
 JEL
 MVSD
 VF
 NAMUR
 551
 JEL10
 3VJZF
 Diaphragm
 JELVD
 3V1
 Coil
 2P
 2V
 2W
 2W(big)
 2L
 VX
 PU
 PU225
 2Q
 JEL5404
 JEL6213
Pulse
 JELJZF
 4H
 TSV
 MPV
 4HV
 HV, K
 4R
 4F210
 FV
 MSV
 JM
 ASC, RE
 QE, QEA
 ST
 HSV

2/2

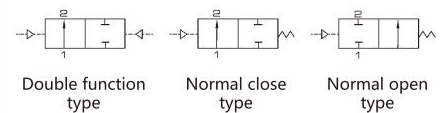
Viton Type Multimedia Angle Valve



Ordering Code

JEL	JZF	15	D	1	NC
JELPC	Specification	Orifice	Material of Body	Mountings	Normal Close
	JZF Angle Valve	15,20,25,32,40,50	D: Bronze Blank: S. Steel	F: Flange 1: Single Acting 2: Double Acting	NC: Normal Close NO: Normal Open

Symbol



Specification

Orifice size (mm)	Port Thread (PT)	Kv (m ³ /h)	Max. Working Pressure (MPa)	Required Min. Control Pressure (MPa)	PA	Medium Temperature	Direction
15	PT1/2"	4.2	0~1.6	0.39	50	-10~+180°C	Direction A or B
20	PT3/4"	8	0~1.1	0.39	50		
25	PT1"	19	0~1.1	0.42	63		
32	PT1 1/4"	27.5	0~1.5	0.5	63		
40	PT1 1/2"	42	0~1.25	0.44	63		
50	PT2"	55	0~1.0	0.4	80		
65	PT2 1/2"	65	0~1.0	0.4	100		

Fix and Maintain

1. Clean the pipes carefully from any residue, dribble or welding residue, to avoid any damage to the seal.
2. To be installed as required, preferably with actuator in upright position.
3. Connect the pipes according to the reference points (flow direction) found on the valve body. Only disassemble actuator if required by customer.
4. Before taking the valve apart, depressurize the medium supply and piloted air supply from piping system.

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

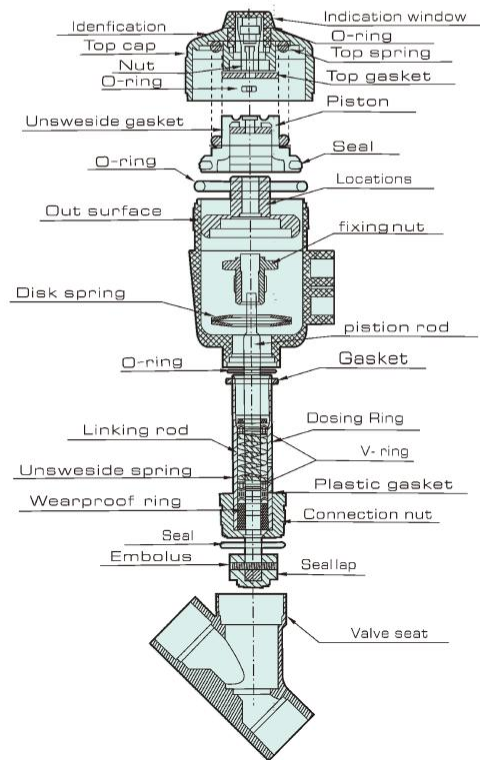
ASC, RE

QE, QEA

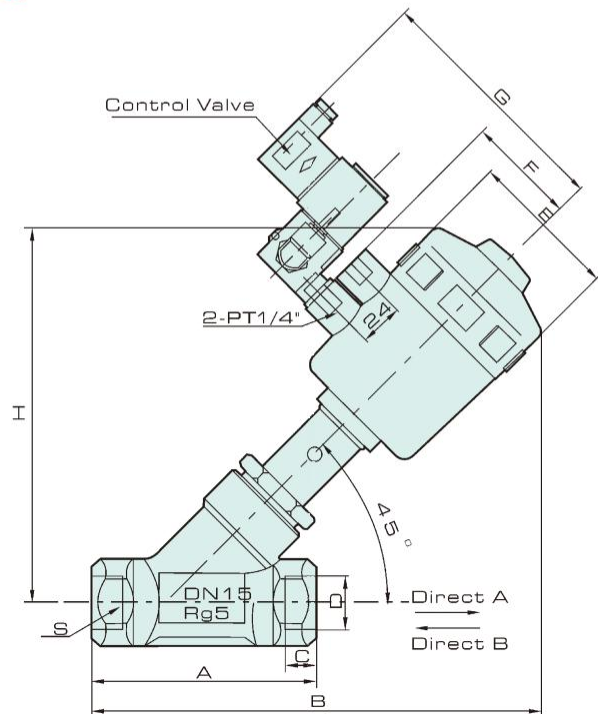
ST

HSV

Internal Structure



Overall Dimension



Dimension

Orifice (mm)	Port Thread D	Execution Device Dimension (Φ mm)		A	B		C	ØE		F		G		H		L	S
		PA	aluminium		PA	aluminium		PA	aluminium	PA	aluminium	PA	aluminium	PA	aluminium		
15	PT1/2"	50	-	85	173	-	12	64	-	44	-	112	-	137	-	33	27
20	PT3/4"	50	-	95	178	-	12	64	-	44	-	112	-	145	-	35	32
25	PT1"	63	-	105	212	-	14	80	-	52	-	120	-	173	-	40	41
32	PT1 1/4"	63	100	118	236	276	16	80	140	52	70	120	138	189	250	35	55
40	PT1 1/2"	63	100	130	230	270	18	80	140	52	70	120	138	189	250	35	55
50	PT2"	80	125	150	238	300	20	100	170	52	83	120	151	250	260	38	70
65	PT2 1/2"	100	-	155	300	-	25	125	-	62	-	130	-	265	-	48	80

Note

- * Features while select A type flow direction
Increase service life.

Prevent water impact when working medium is liquid.

Product with orifice size at Ø15, Ø20 or Ø25, it is necessary to keep working pressure under 0.3 MPa, otherwise double-acting actuators should be adopted.

Product with orifice size at Ø32 or Ø40, double-acting actuators should be Ø100.

Product with orifice size at Ø50, double-acting actuators should be Ø125.

- * Features while select B type flow direction

Sealing property can be improved under B type flow direction while medium is steam or liquid. If the V shape sealing contact with working medium is too long, and it will influence on service life. Apart from that, the anti-water impact does not exit when working medium is liquid.

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Stainless Steel Series

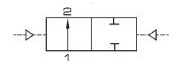
Angle Valve



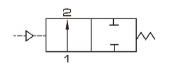
Ordering Code

JEL	7	2	3	0	10
JELPC	Function	Steel Material	Acting Device Material	Key sealing	Specification
	7: Normal close	2: 316 Stainless steel	3: Engineering material	0: Viton	10: 3/8"
	8: Normal open	3: 304 Stainless steel	4: Aluminium	9: PTFE	15: 1/2"
	9: Double direction		5: 304 Stainless steel		20: 3/4"
					25: 1"
					32: 1 1/4"
					40: 1 1/2"
					50: 2"
					65: 2 1/2"
					80: 3"

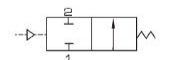
Symbol



Double function type



Normal close type



Normal open type

Specification

Connection Size	DN10-DN80
Screw	3/8" ~ 3"
Material of Body	Stainless Steel 316/304
Acting Device Material	Stainless Steel 304
Valve Core Seal	PTFE/FPM
Valve Rod Seal	PTFE/FPM
Piston Seal	FPM/NBR
Suitable Medium	Water, Neutral Air (or liquid), Alcohol, Oil, Organic liquid, Steam, Weak Acid or alkalescence
Medium Temperature	PTFE : -10°C~+200°C FPM : -10°C~+100°C
Stickiness	Max600mm ² /s
Installation	Follow flow installation
Control Medium	Air / Neutral Air
Controlled Pressure Range	0.3~0.8MPa
Working Pressure	0~1.6MPa

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

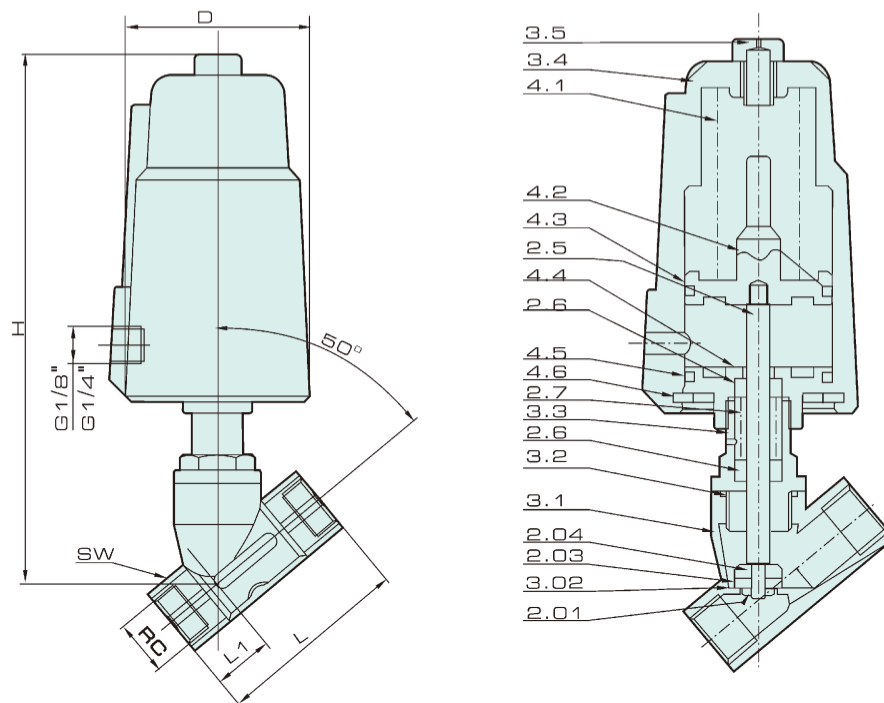
ASC, RE

QE, QEA

ST

HSV

Overall Dimension



Specification

Overall Dimension							
DN	RC	L	L1	SW	H	D	Acting Device
10	3/8"	55	17	21	120	51	40
15	1/2"	70	21	26.5	138	51	40
20	3/4"	76	23	32	154	62	50
25	1"	90	25	40	168	62	50
32	1 1/4"	116	32	50	200	76	63
40	1 1/2"	116	32	55.5	215	92	80
50	2"	138	40	68.5	230	92	80
65	2 1/2"	168	51	85	268	117	100
80	3"	192	54	100	325	140	125

Parts		
2.01 Bolt	3.1 Valve body	4.1 Spring
2.02 Hole plate sealing	3.2 O-ring seal	4.2 Piston
2.03 Sealing disk	3.3 Threed connecting accessory	4.3 O-ring
2.04 Valve disk	3.4 Cylinder	4.4 Valve Cover
2.5 Valve spool	3.5 Decorating Cover	4.5 O-ring
2.6 V Shape material		4.6 Pressure receipt ring
2.7 Spring		

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

4H Series

Hand Pull Valve



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV



Features

1. We guarantee inner hole roughness within our new processing.
2. Handle base use high strength plastic to beautify the appearance.
3. To import German high standard special grease which provides film in order to reduce friction.
4. Valve spool use seals which import from Japan to increase the life time.

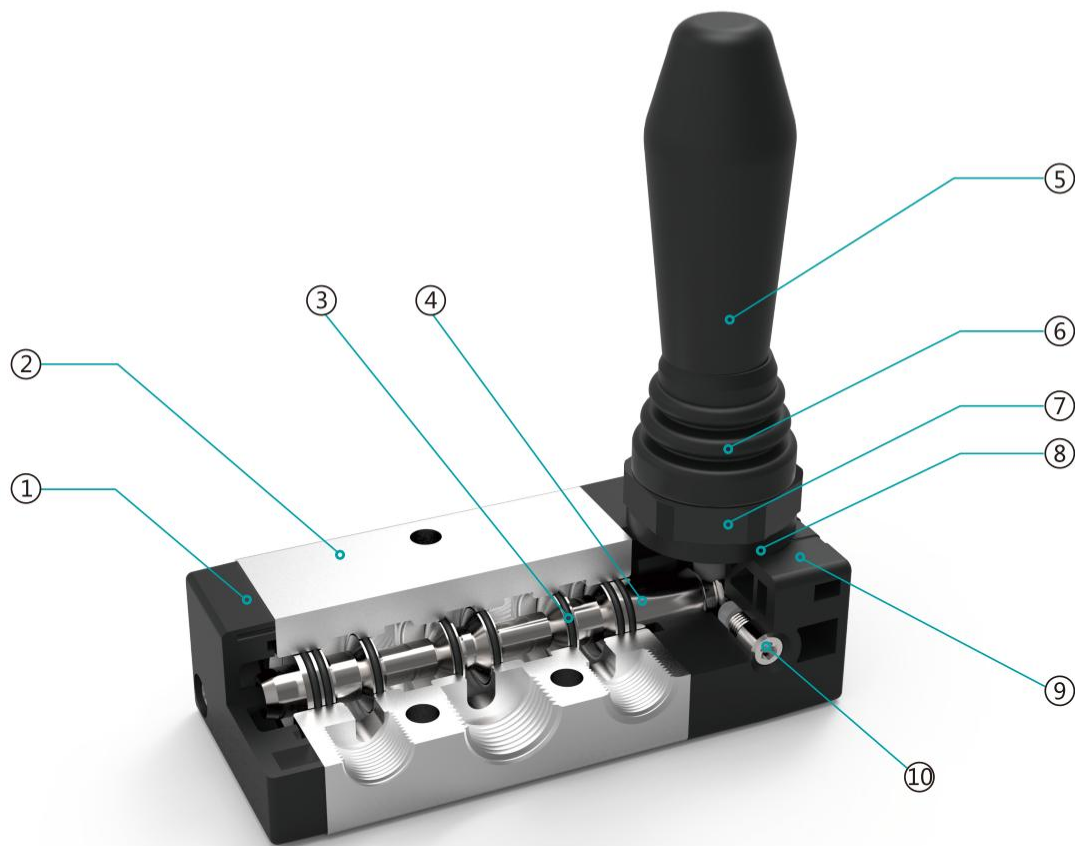
Ordering Code

4H	2	10	C	06	L
↓	↓	↓	↓	↓	↓
Specification	Series Code	Position Number	Middle Position	Port Size	Type
4H: 5/2(3) Way	2: 200 Series	10: Single head	C: Mid-position closed	06: G1/8"	Blank: 5/2 way lock type
3H: 3/2 Way	3: 300 Series	two position	E: Mid-position exhausted	08: G1/4"	L: 5/3 way lock type
	4: 400 Series	30: Single head	P: Mid-position pressured	10: G3/8"	S: 5/2 (3) way spring return type
	(without 3H)	three position		15: G1/2"	

Specification

Model	4H210-06	4H210-08	4H230-08	4H310-08	4H310-10	4H330-10	4H410-15	4H430-15
Working Medium	40 Micron Filtered Air							
Operation	Direct							
Effective Cross Section Area	14mm ² (CV=0.78)	16mm ² (CV=0.89)	12mm ² (CV=0.67)	25mm ² (CV=1.4)	30mm ² (CV=1.68)	18mm ² (CV=1.00)	50mm ² (CV=2.79)	30mm ² (CV=1.68)
Port Size	Inlet, Outlet, Exhaust Port = G1/8"	Inlet, Outlet = G1/4" Exhaust Port=G1/8"	Inlet, Outlet, Exhaust Port = G1/4"	Inlet, Outlet, Exhaust Port = G1/4"	Inlet, Outlet = G3/8" Exhaust Port = G1/4"		Inlet, Outlet, Exhaust Port = G1/2"	
Working Pressure	0 ~ 0.8MPa							
Working Temperature	-20 ~ 70℃							

Internal Structure



Parts

Number	Name	Number	Name
1	Back cover	6	Dirt-proof boot
2	Valve body	7	Lock nut
3	Flat ring	8	Gasket
4	Valve spool	9	Top cover
5	Handle	10	Set screw

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF

4H

TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

4H Series

Hand Pull Valve

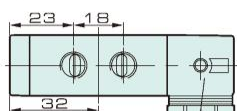
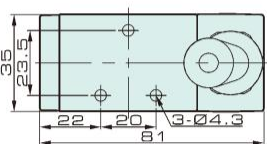
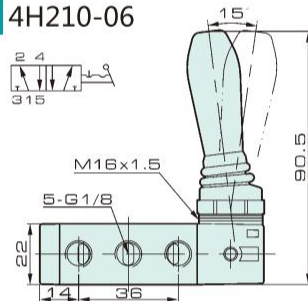


Valve

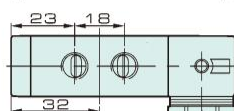
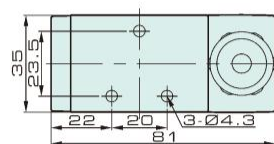
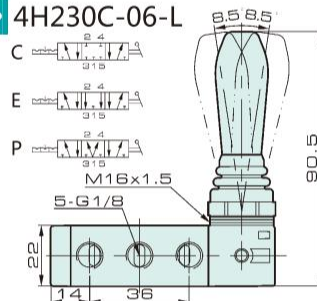
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Overall Dimension

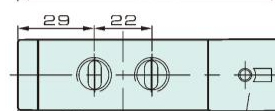
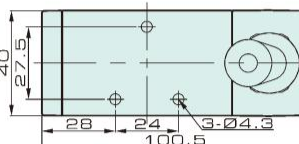
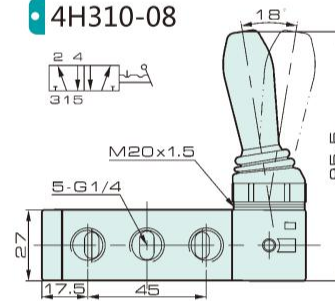
4H210-06



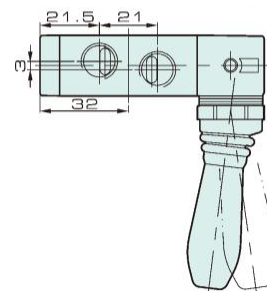
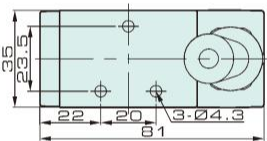
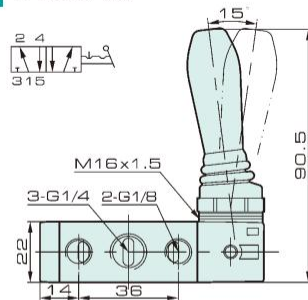
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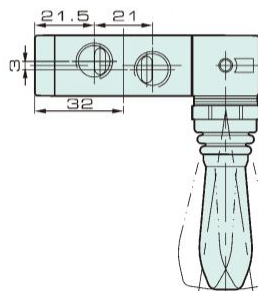
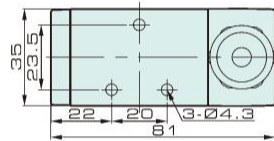
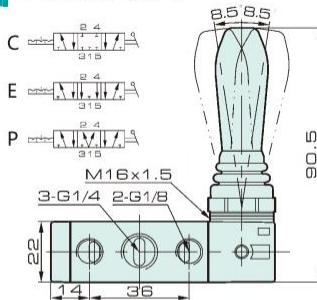
4H310-08



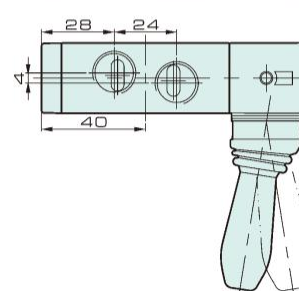
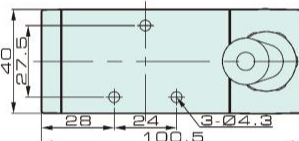
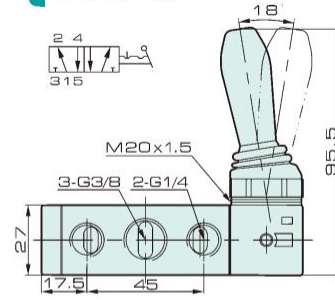
4H210-08



4H230C-08-L

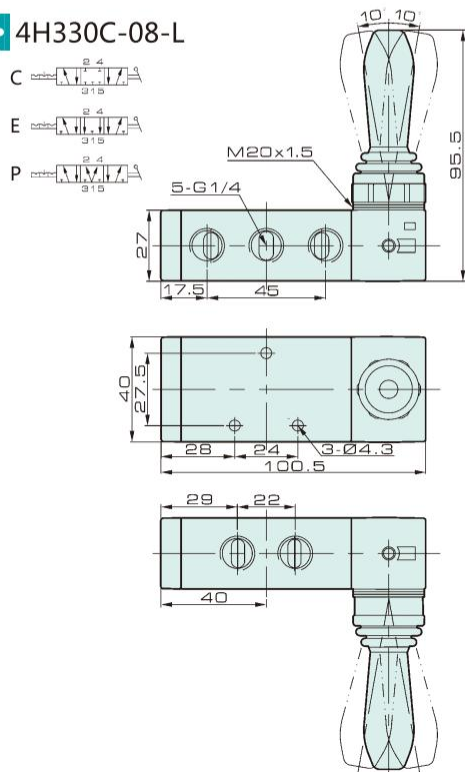


4H310-10

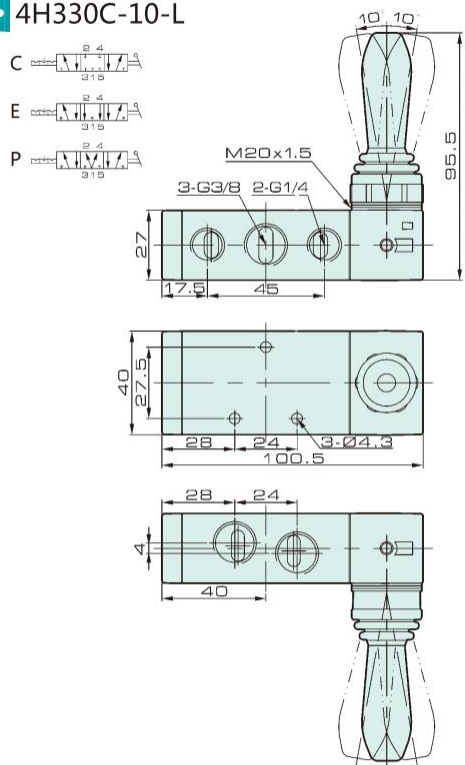


Overall Dimension

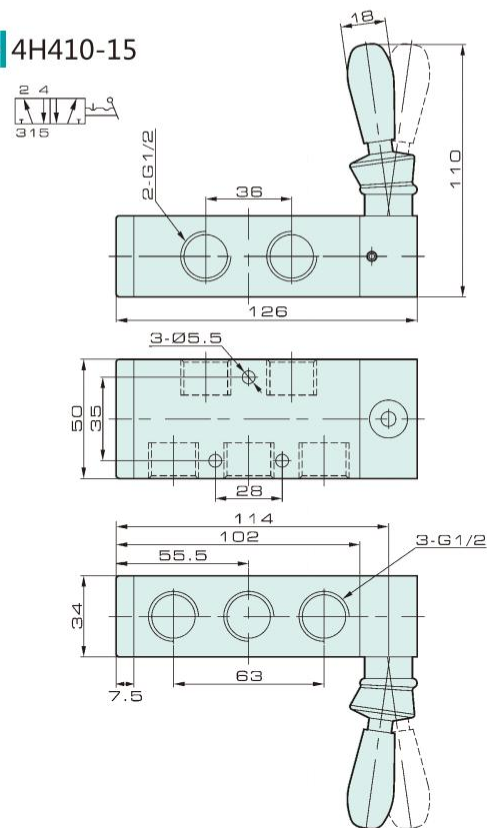
4H330C-08-L



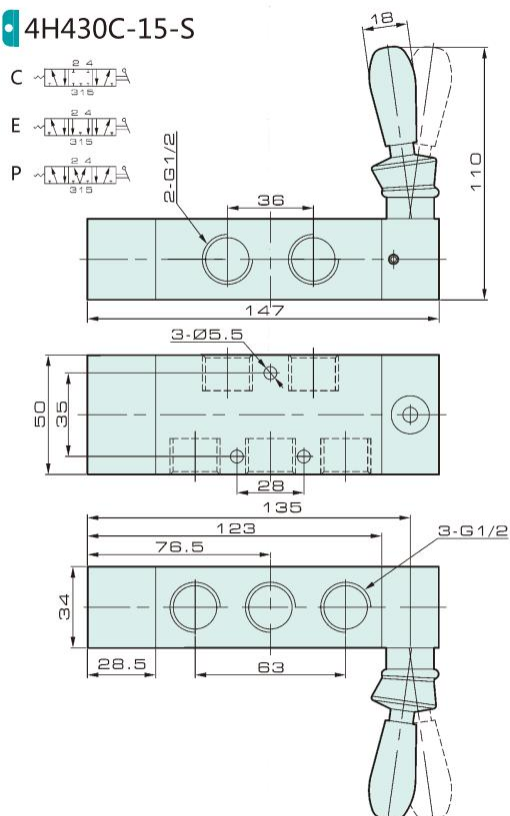
4H330C-10-L



4H410-15



4H430C-15-S



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

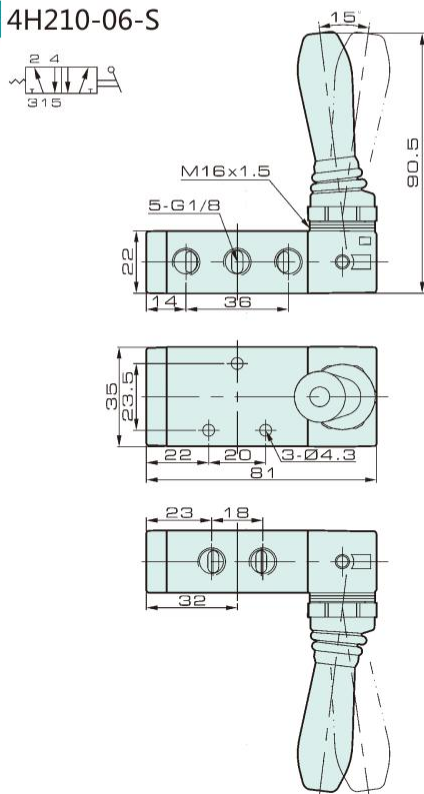
ST

HSV

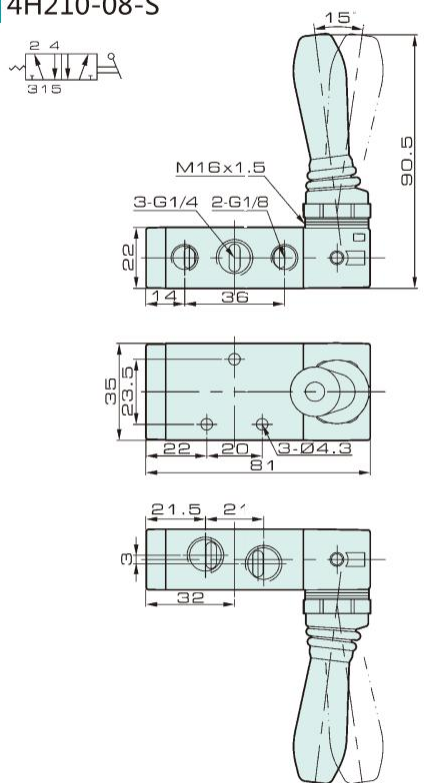
Valve
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Overall Dimension

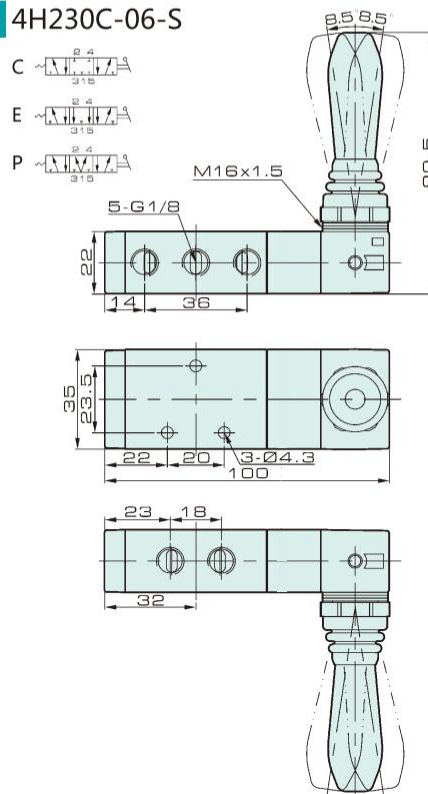
4H210-06-S



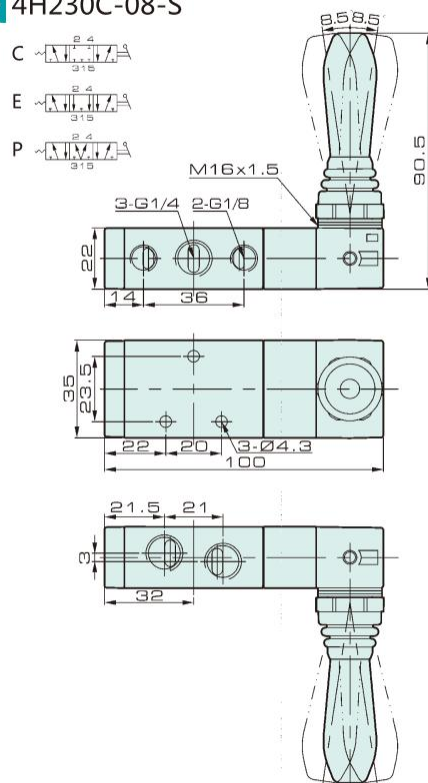
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4H230C-06-S

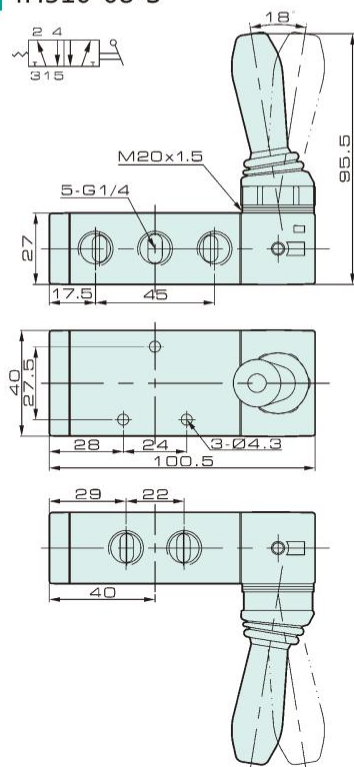


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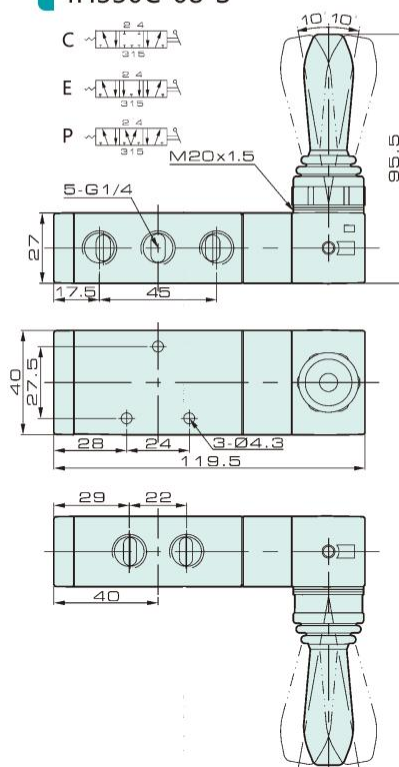


Overall Dimension

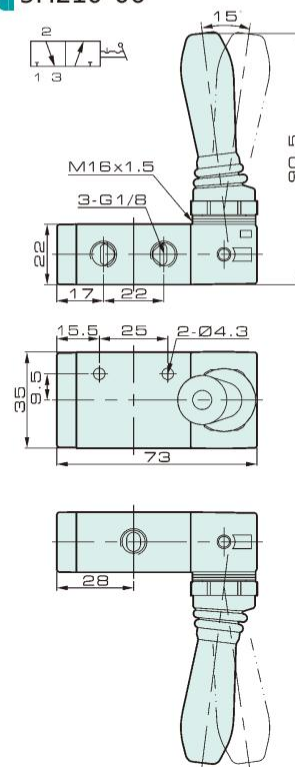
4H310-08-S



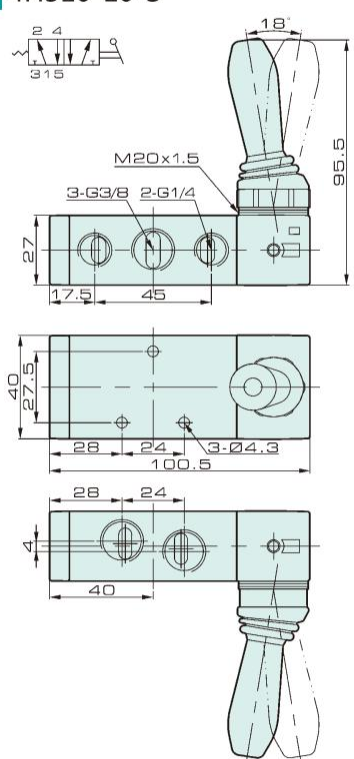
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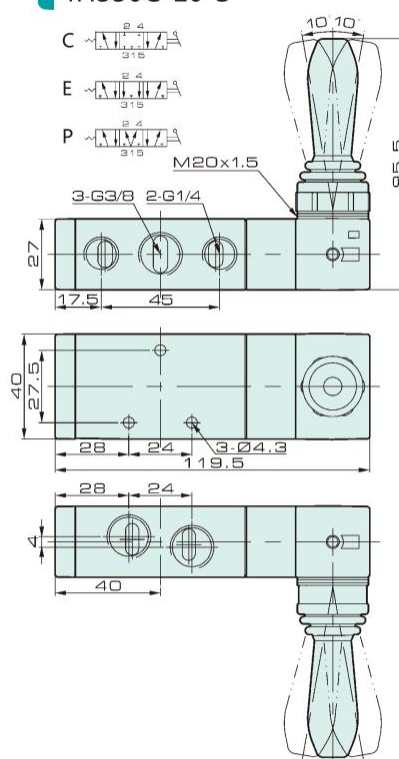
3H210-06



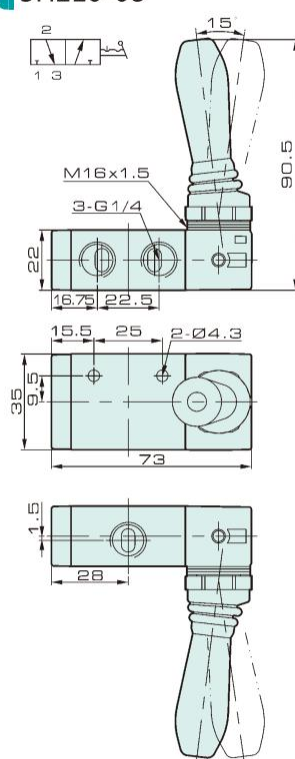
4H310-10-S



4H330C-10-S



3H210-08



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

4H Series

Hand Pull Valve



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

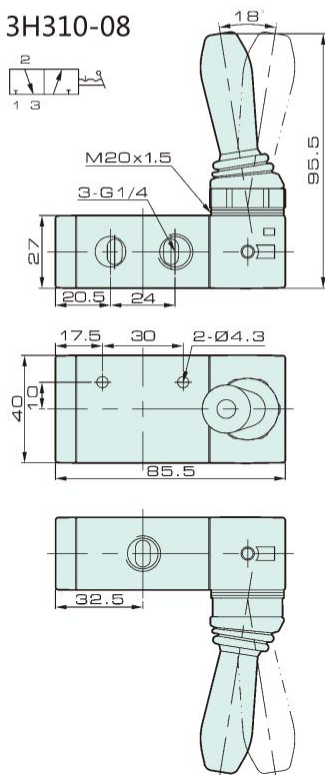
QE, QEA

ST

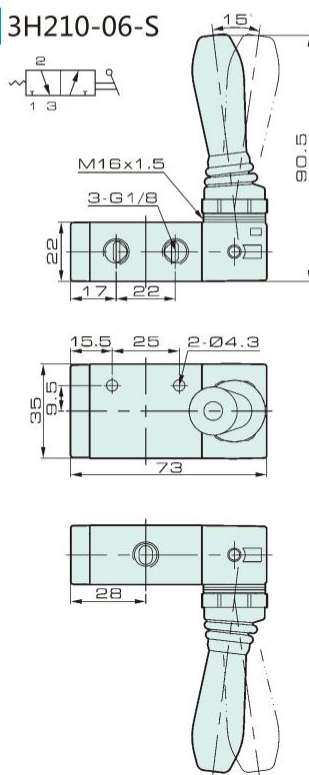
HSV

Overall Dimension

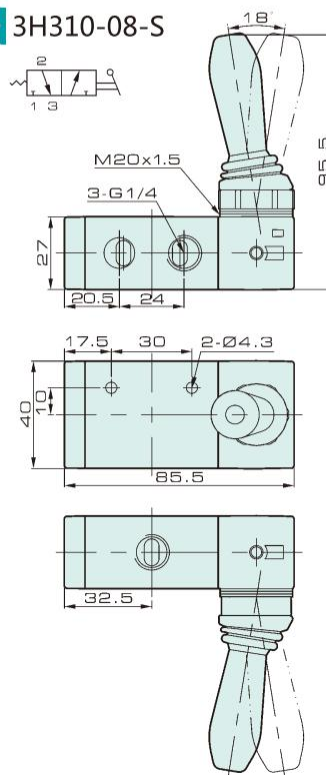
3H310-08



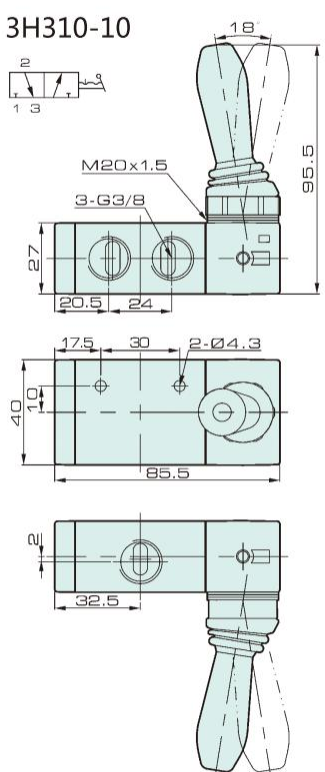
3H210-06-S



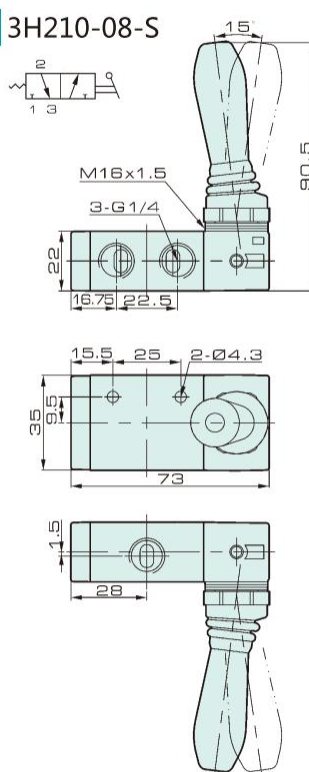
3H310-08-S



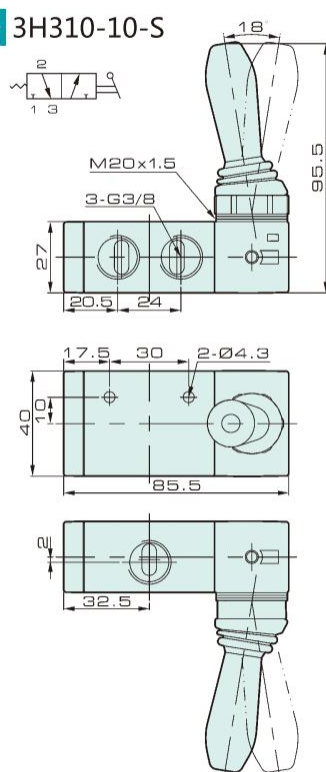
3H310-10



3H210-08-S



3H310-10-S





TSV98322-M



TSV86522-M

Ordering Code

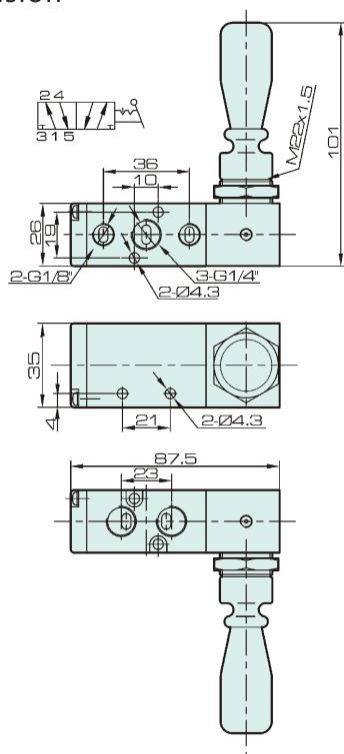
TSV86	52	2	M
↓	↓	↓	↓
Specification	Position Number	Port Size	Code
TSV86	52: 5/2 way	1: G1/8"	M: Mechanical Lock
TSV98	32: 3/2 way	2: G1/4"	S: Spring Rebound

Specification

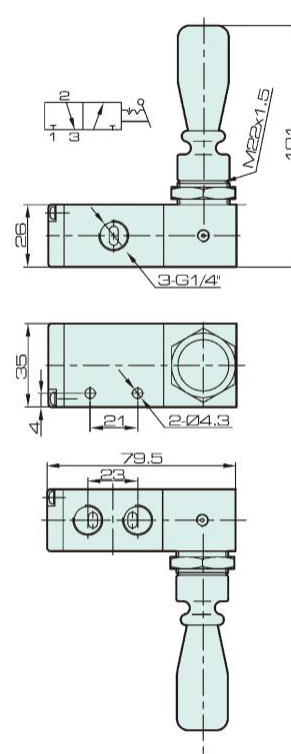
Model	TSV86522 ^M _S	TSV98322 ^M _S
Working Medium	40 Micron Filtered Air	
Operation	Direct	
Effective Cross Section Area	18mm ²	
Port Size	G1/4"	
Working Pressure	0 ~ 0.8MPa	
Working Temperature	-20 ~ 70°C	

Overall Dimension

TSV86522



TSV98322



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

MPV Series

Hand Push Valve



MPV321



MPV522

Ordering Code

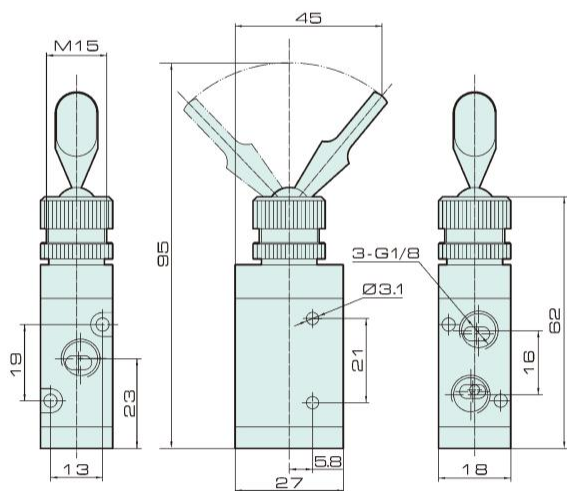
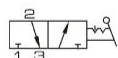
MPV	52	2
Specification	Position Number	Code
Hand Push Valve	52: 5/2 way 32: 3/2 way	1: G1/8" 2: G1/4"

Specification

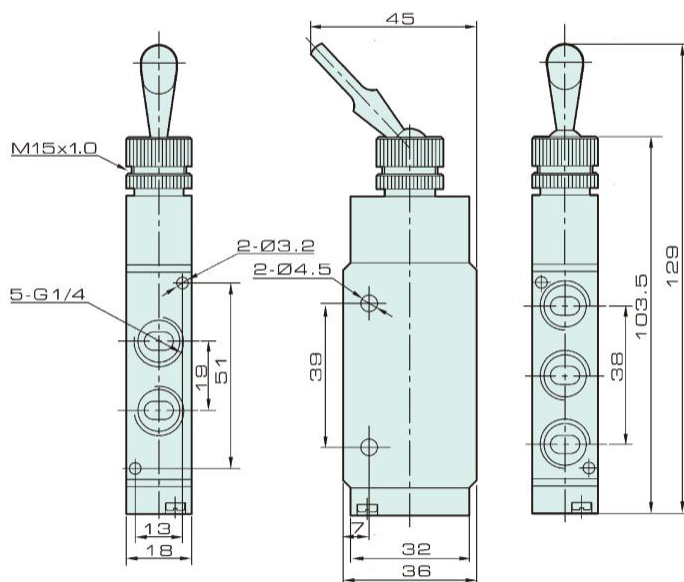
Model	MPV522	MPV321
Working Medium	40 Micron Filtered Air	
Port Size	G1/4"	G1/8"
Effective Cross Section Area	18 mm ² (CV=1.00)	10 mm ² (CV=0.56)
Working Pressure	0 ~ 0.8MPa	
Working Temperature	-20 ~ 70°C	

Overall Dimension

MPV321



MPV522



4HV Series

Hand Switching Valve



Ceramic Seal



4HV230C-08



4HV330C-10

Ordering Code

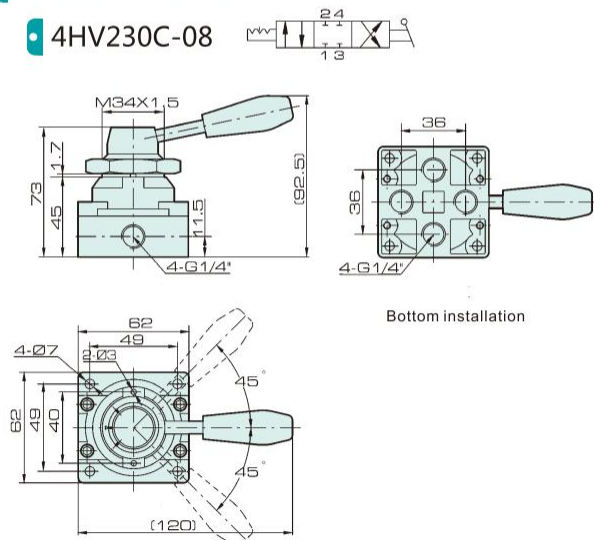
4HV	2	30	C	06	TC	S
1	1	1	1	1	1	1
Specification	Series	Position Number	Middle Position	Port Size	Seal Form	Nut
4HV: Hand Switching Valve	2: 2 Series 3: 3 Series	10: 4/2 way 30: 4/3 way	C: Mid-position Closed E: Mid-position Exhausted P: Mid-position Pressed	06: G1/8 08: G1/4 10: G3/8 15: G1/2	Blank: NBR Ceramics: TC (Only 2 series have ceramic)	Blank: Without nut S: With nut

Specification

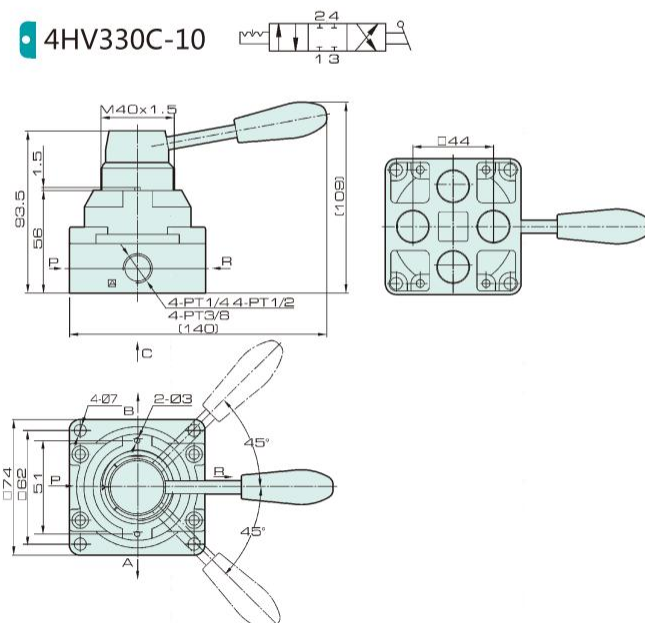
Model	4HV2□□□-06	4HV2□□□-08	4HV3□□□-08	4HV3□□□-10	4HV4□□□-15	4HV4□□□-20
Working Medium	40 Micron Filtered Air					
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"	G3/4"
Working Pressure	1.0 MPa					
Max. Test Pressure	1.2 MPa					
Max. Ambient Temperature	-20 ~ 70°C					
Working Angle	90					

Overall Dimension

4HV230C-08



4HV330C-10



Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

HV、K Series Hand Switching Valve



HV400



K34R₈-L8

Ordering Code

HV	400	02	B
Specification	Series	Port Size	Connection type
Hand Switching Valve		02: G1/4" 03: G3/8" 04: G1/2"	Blank: Threaded B: Sub-plated

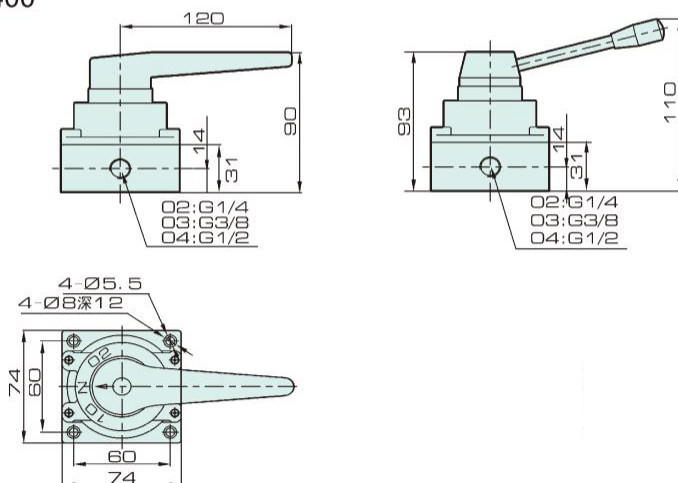
K	34	R ₈	L8
Specification	Series	Port Size	Connection Type
Hand Switching Valve	24: 4/2 Way 34: 4/3 Way	R ₈ : Hand Switching Valve	L6: G1/8" L8: G1/4"

Specification

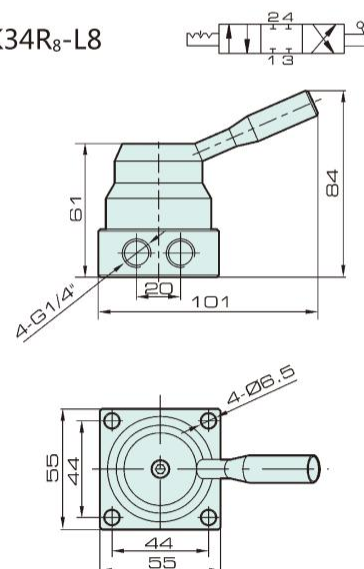
Model	HV400-02	HV400-03	HV400-04	K34R ₈ -L6	K34R ₈ -L8
Working Medium	40 Micron Filtered Air				
Port Size	G1/4"	G3/8"	G1/2"	G1/8"	G1/4"
Effective Cross Section Area	30 mm ² (CV=1.68)			18 mm ² (CV=1.00)	
Working Pressure	0 ~ 0.8 MPa				
Max. Ambient Temperature	-20 ~ 70°C				

Overall Dimension

HV400



K34R₈-L8





Features

1. We guarantee inner hole roughness within our new processing.
2. New visual style, synchronized with global outstanding product standard.
3. To import German high standard special grease which provides film in order to reduce friction.
4. Valve spool use seals which import from Japan to increase the life time.

Ordering Code

4R	2	10	06
Specification	Series	Position Number	Port Size
4R: 5/2 Way Hand Draw Valve	100 Series	10: Single head Double Position	M5 : M5x0.8
3R: 3/2 Way Hand Draw Valve	200 Series		06 : G1/8"
	300 Series		08 : G1/4"
			10 : G3/8"

Specification

Model	4R110-06	3R110-06	4R210-06	4R210-08	3R210-06	3R210-08	4R310-08	4R310-10	3R310-08	3R310-10
Working Medium	40 Micron Filtered Air									
Port Size	Inlet, Outlet, Exhaust Port = G1/8"		Inlet, Outlet = G1/4" Exhaust Port = G1/8"	Inlet, Outlet, Exhaust Port = G1/8"	Inlet, Outlet, Exhaust Port = G1/4"	Inlet, Outlet, Exhaust Port = G1/4"	Inlet, Outlet = G3/8" Exhaust Port = G1/4"	Inlet, Outlet, Exhaust Port = G1/4"	Inlet, Outlet, Exhaust Port = G3/8"	Inlet, Outlet, Exhaust Port = G3/8"
Effective Cross Section Area	10mm ² (CV=0.56)	14mm ² (CV=0.78)	16mm ² (CV=0.89)	14mm ² (CV=0.78)	16mm ² (CV=0.89)	25mm ² (CV=1.40)	30mm ² (CV=1.68)	25mm ² (CV=1.40)	30mm ² (CV=1.68)	30mm ² (CV=1.68)
Working Pressure	0 ~ 0.8MPa									
Working Temperature	-20 ~ 70°C									
Position Number	5/2 way	3/2 way	5/2 way	3/2 way	5/2 way	3/2 way	5/2 way	3/2 way	5/2 way	3/2 way

Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

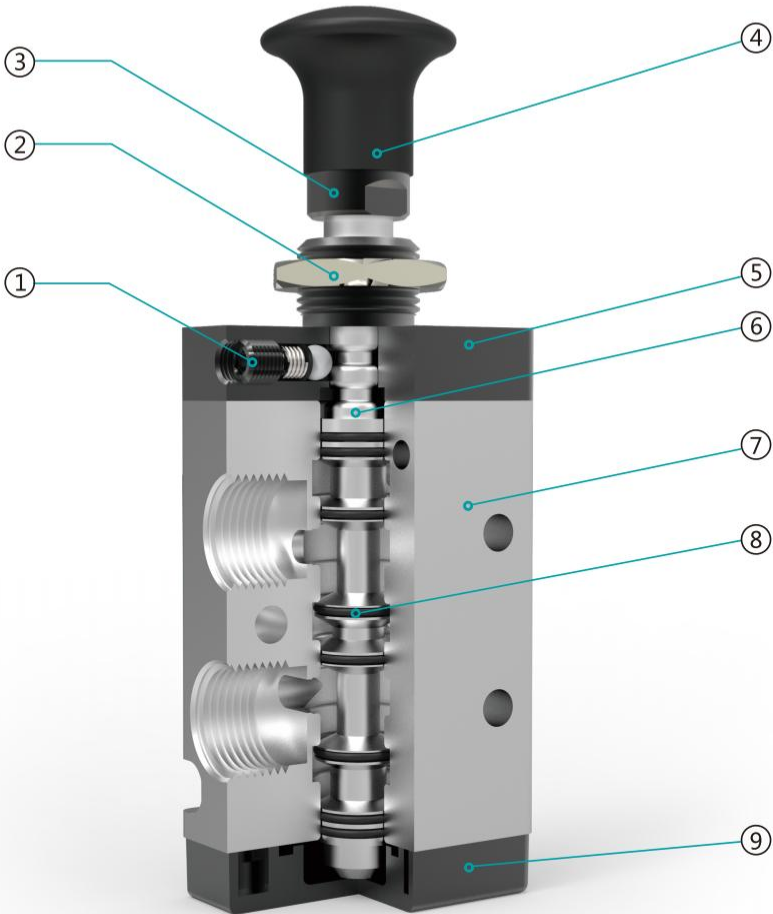
4R Series

Hand Draw Valve



- Valve
- J4V
- J4V100
- J4V200
- J4V300
- J4V400
- Manifold
- JSY
- Terminal
- JVT
- JEL
- MVSD
- VF
- NAMUR
- 551
- JEL10
- 3VJZF
- Diaphragm
- JELVD
- 3V1
- Coil
- 2P
- 2V
- 2W
- 2W(big)
- 2L
- VX
- PU
- PU225
- 2Q
- JEL5404
- JEL6213
- Pulse
- JELJZF
- 4H
- TSV
- MPV
- 4HV
- HV, K
- 4R
- 4F210
- FV
- MSV
- JM
- ASC, RE
- QE, QEA
- ST
- HSV

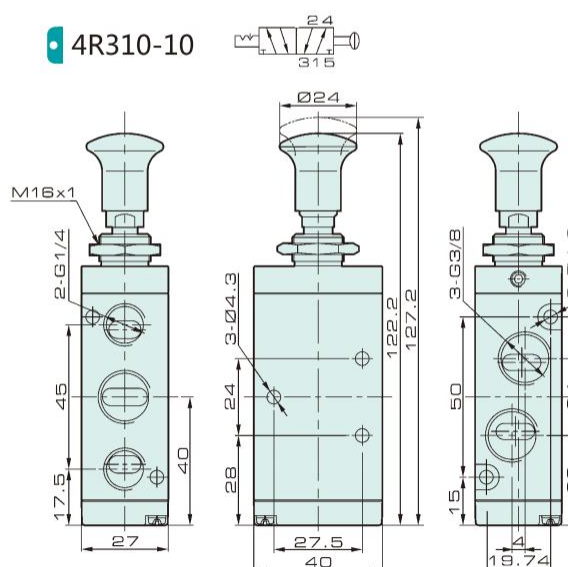
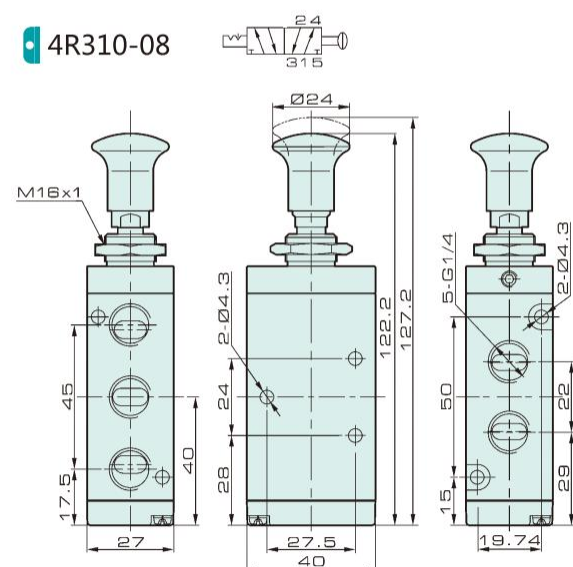
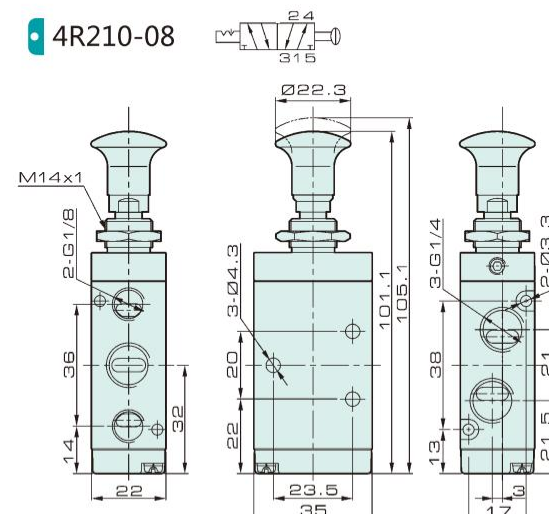
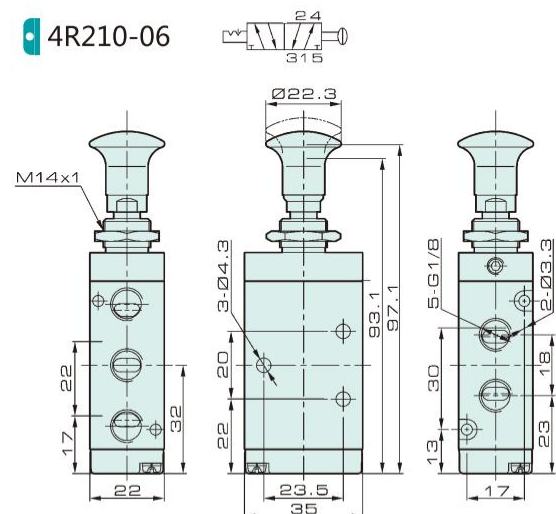
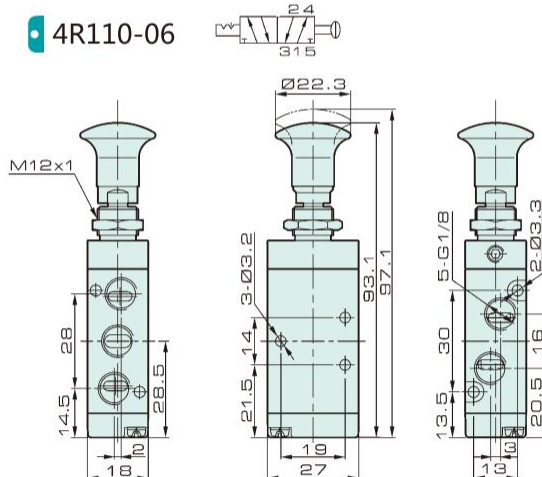
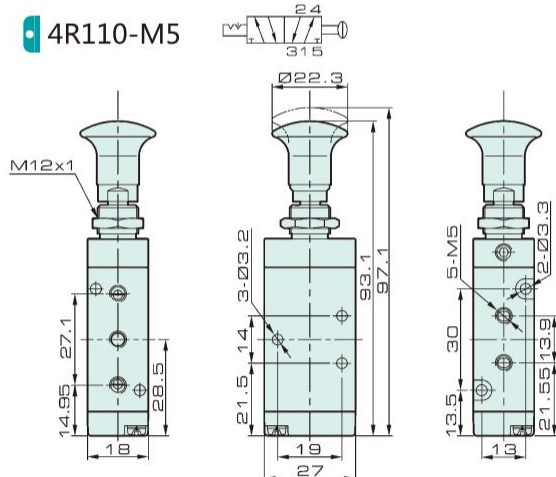
Internal Structure



Parts

Number	Name	Number	Name
1	Set screw	6	Valve spool
2	Hexagon nut	7	Valve body
3	Lock nut	8	Flat ring
4	Handle	9	Cover
5	Top cover		

Overall Dimension



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

4R Series

Hand Draw Valve

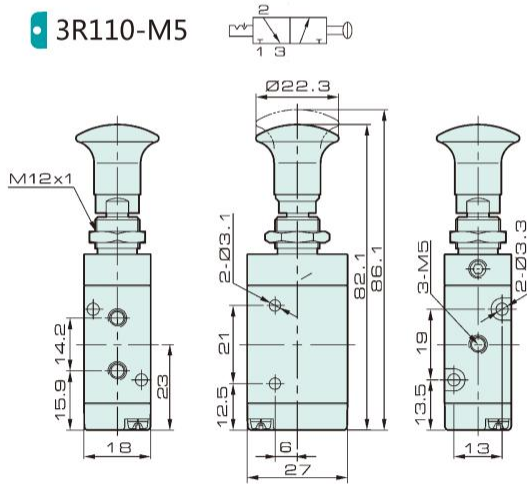


Valve

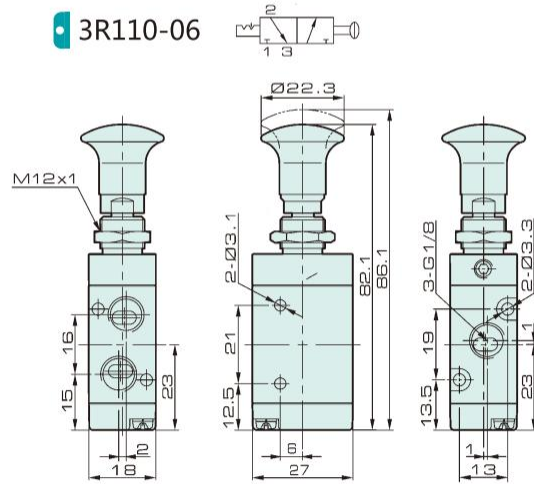
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Overall Dimension

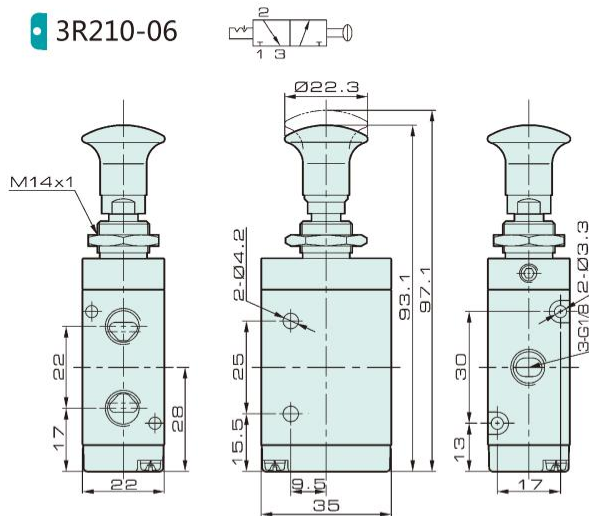
3R110-M5



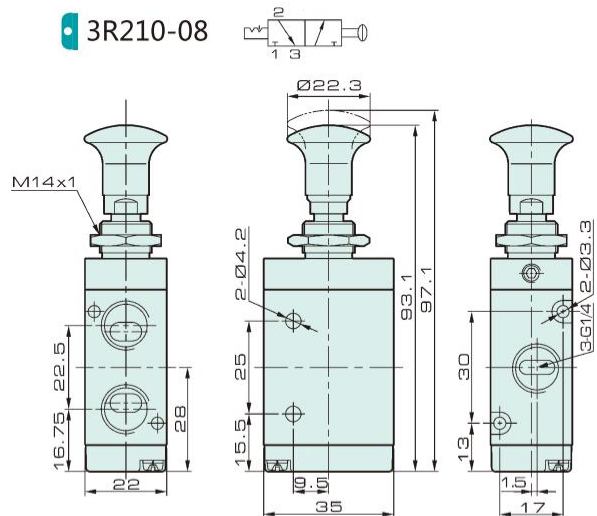
3R110-06



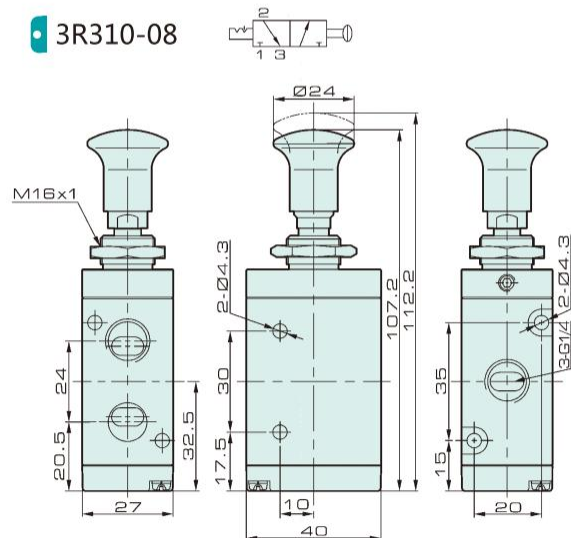
3R210-06



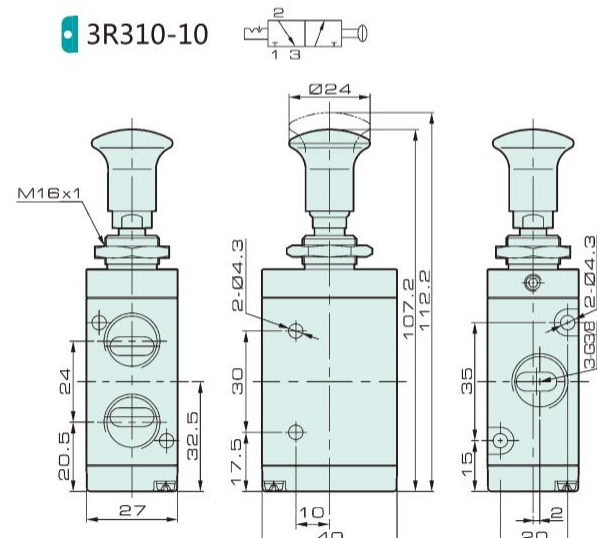
3R210-08



3R310-08



3R310-10



Features

1. Renew appearance to improve sense quality
2. Renew the lock structure to improve products reliability.



4F210-08L

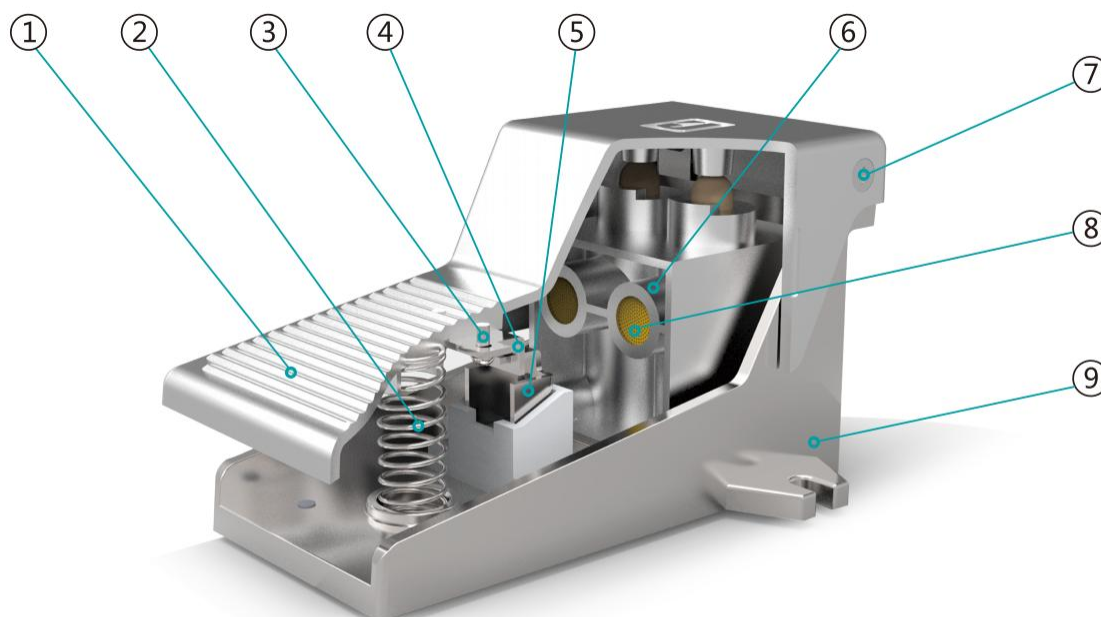
Ordering Code

4F	2	10	08	L
Specification	Series	Position Number	Port Size	Type
4F: 5/2 way foot valve	2: 200 Series	10: Single head double position	08 : G1/4"	Blank : Standard type L: With lock G: With protecting cover LG: With lock and protecting cover

Specification

Model	4F210-08	4F210-08L	4F210-08G	4F210-08LG
Working Medium	40 Micron Filtered Air			
Position Number	5/2 way			
Port Size	Inlet, Outlet, Exhaust Port = G1/4"			
Operation	Direct			
Working Pressure	0 ~ 0.8MPa			
Working Temp.	-20 ~ 70°C			

Internal Structure



Parts

Number	Name	Number	Name	Number	Name
1	Pedal	4	Hook	7	Screw
2	Spring	5	Lock	8	Sliencer
3	Screw	6	Valve body	9	Valve base

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

4F210 Series

Foot Valve

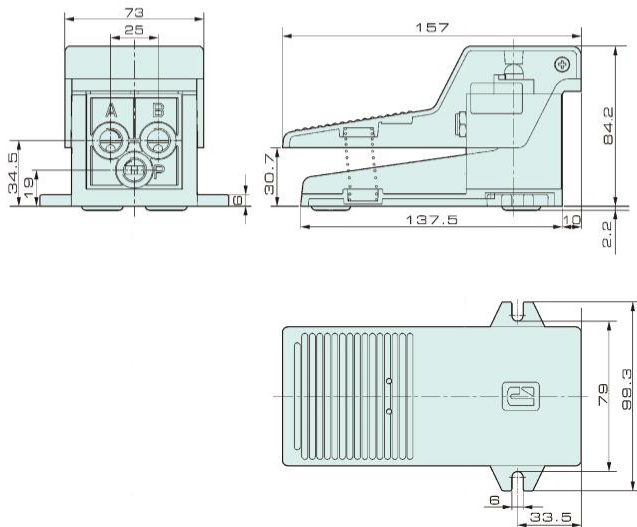


Valve

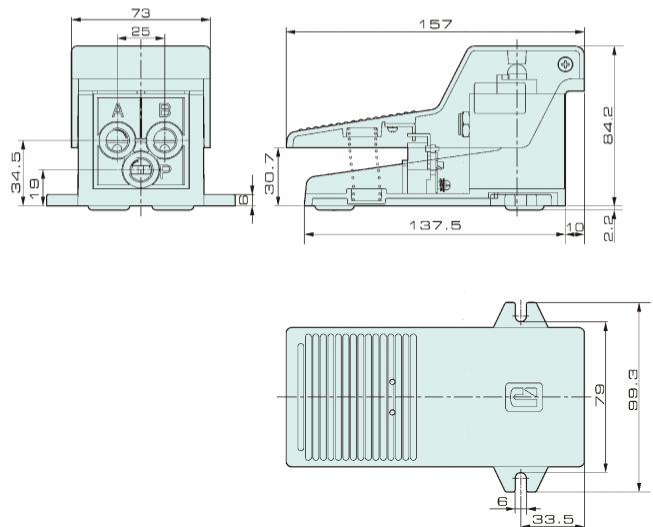
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

Overall Dimension

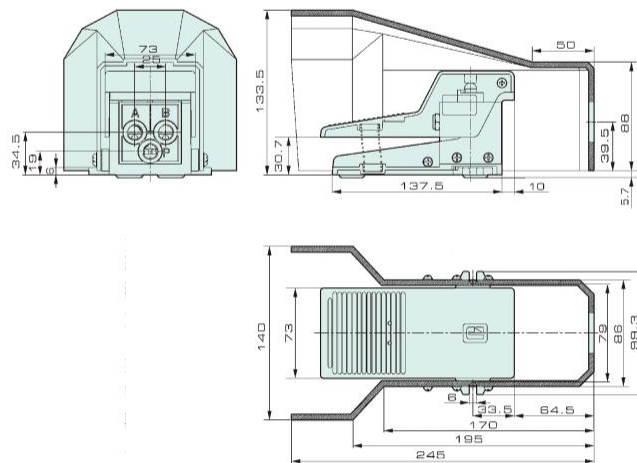
4F210-08



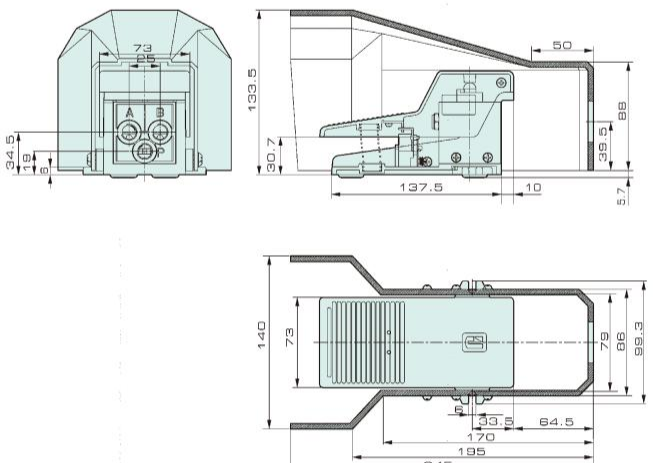
4F210-08L



4F210-08G



4F210-08LG





FV320



FV420

Ordering Code

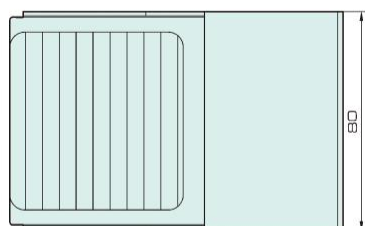
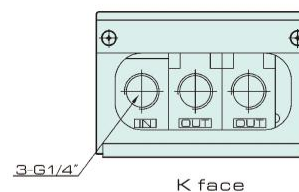
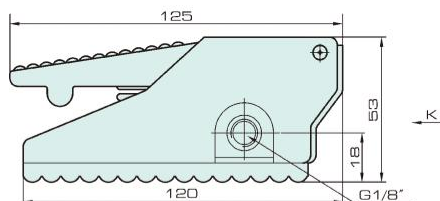
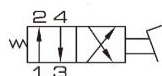
FV	320
Specification	Position Number
Foot Valve	320: 3/2 way 420: 4/2 way

Specification

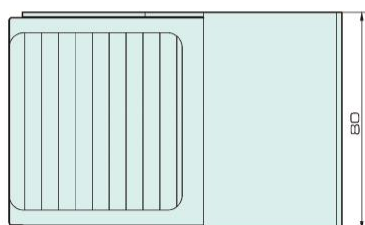
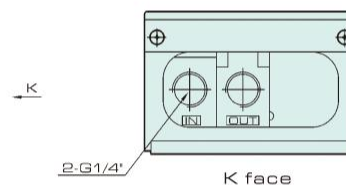
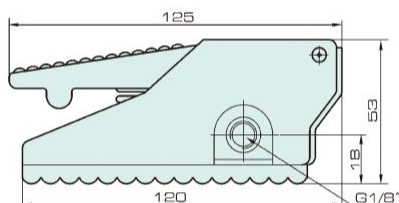
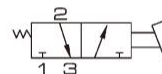
Model	FV420	FV320
Working Medium	40 Micron Filtered Air	
Position Number	4/2 way	3/2 way
Port Size	Inlet, Outlet = G1/4" Exhaust Port = G1/8"	
Operation	Direct	
Working Pressure	0 ~ 0.8 MPa	
Working Temperature	-20 ~ 70°C	

Overall Dimension

FV420



FV320



Valve

J4V
 J4V100
 J4V200
 J4V300
 J4V400
 Manifold
 JSY
 Terminal
 JVT
 JEL
 MVSD
 VF
 NAMUR
 551
 JEL10
 3VJZF
 Diaphragm
 JELVD
 3V1
 Coil
 2P
 2V
 2W
 2W(big)
 2L
 VX
 PU
 PU225
 2Q
 JEL5404
 JEL6213
 Pulse
 JELJZF
 4H
 TSV
 MPV
 4HV
 HV, K
 4R
 4F210
FV
 MSV
 JM
 ASC, RE
 QE, QEA
 ST
 HSV

MSV Series

Mechanical Valve



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV



Ordering Code

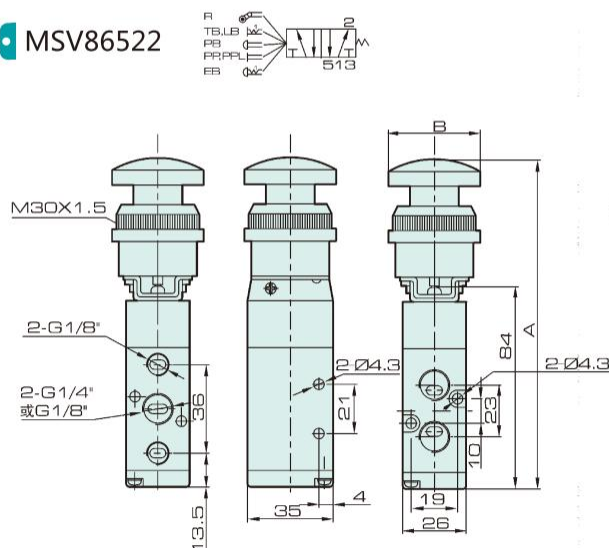
MSV	86	32	1	R
↓	↓	↓	↓	↓
Specification	Series	Position Number	Port Size	Button
Mechanical Valve	98 Series	32: 3/2 way	1: G1/8"	Blank: Plunger
	86 Series	52: 5/2 way	2: G1/4"	R: Roller
				TB: Selector knob
				LB: Long selector knob
				PB: Mushroom head button
				PP: Push button
				PPL: Raised push button
				EB: Emergency push button with lock

Specification

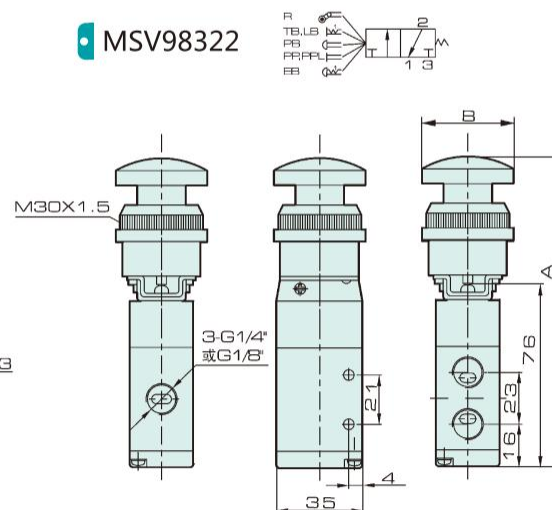
Model	MSV86321	MSV86522	MSV98322
Working Medium	40 Micron Filtered Air		
Valve Type	3/2 Way	5/2 Way	3/2 Way
Working Pressure	0 ~ 0.8MPa	0 ~ 0.8MPa	0 ~ 0.8MPa
Ambient Temperature	-20 ~ 70°C		
Effective Cross Section Area	12mm ² (CV=0.67)	16mm ² (CV=0.89)	16mm ² (CV=0.89)
Port Size	G1/8"	G1/4"	G1/4"

Overall Dimension

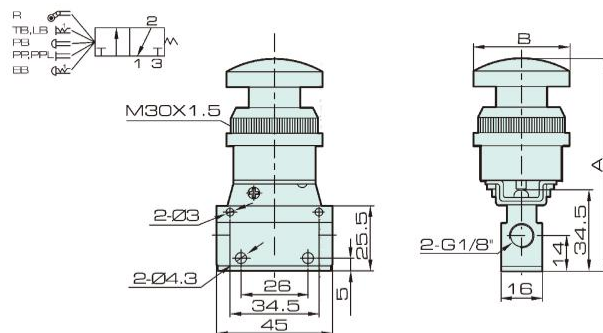
MSV86522



MSV98322



MSV86321



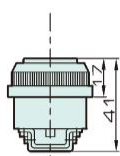
Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

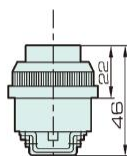
Dimension

Series	Symbol / Model	PP	PPL	LB	TB	EB	PB	R
MSV86522	A	114	119	133	136.5	134	131	107.5
	B	39.5	24.5	26.5	36.5	39.5	37.5	42.5
MSV98322	A	106	111	125	129.5	126	123	99.5
	B	39.5	24.5	26.5	36.5	39.5	37.5	42.5
MSV86321	A	66	71	85	88.5	86	83	59.5
	B	39.5	24.5	26.5	36.5	39.5	37.5	42.5

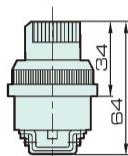
PP



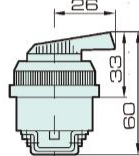
PPL



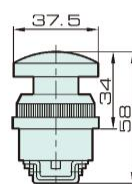
TB



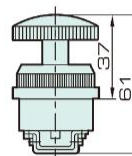
LB



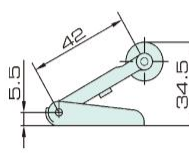
PB



EB



R



JM Series

Mechanical Valve



JM-05



JM-06



JM-06A

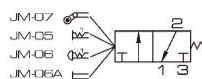


JM-07

Ordering Code

JM	05
Specification	Button
Stop-type Mechanical Valve	05 : Selector knob 06 : Emergency push button with lock 06A : Push button 07 : Roller

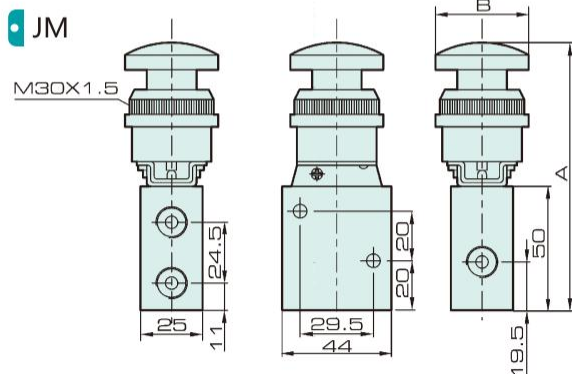
Symbol



Specification

Model	JM-05	JM-06	JM-06A	JM-07
Working Medium	40 Micron Filtered Air			
Working Pressure	0 ~ 0.8MPa			
Ambient Temperature	-20 ~ 70°C			
Valve Type	3/2 way			
Port Size	G1/4"			

Overall Dimension



Dimension

Model	A	B
JM-05	114	36.5
JM-06	111	39.5
JM-06A	96	39.5
JM-07	84.5	42.5

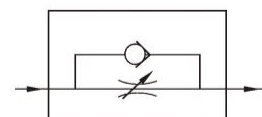


Ordering Code

ASC	06
Series Code	Port Size
ASC: Precision Flow Control Valve	06: G1/8"
	08: G1/4"
	10: G3/8"
	15: G1/2"

RE	01
Series Code	Port Size
RE: Standard Flow Control Valve	01: G1/8"
	02: G1/4"
	03: G3/8"
	04: G1/2"

Symbol



Specification

Model	Accurate Type				Ordinary Type			
	ASC-06	ASC-08	ASC-10	ASC-15	RE-01	RE-02	RE-03	RE-04
Port Size	G1/8"	G1/4"	G3/8"	G1/2"	G1/8"	G1/4"	G3/8"	G1/2"
Working Medium	Air							
Working Pressure	0 ~ 0.95MPa							
Ambient Temperature	-20 ~ 70°C							

* ASC-08B installation conforms to NUMAR standard to control the speed of executive unit.

Valve

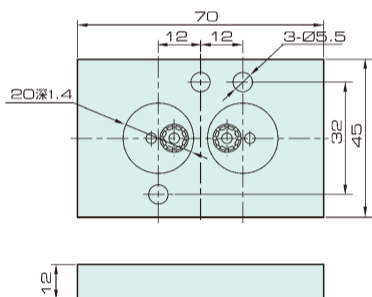
J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV

ASC, RE Series Flow Control Valve

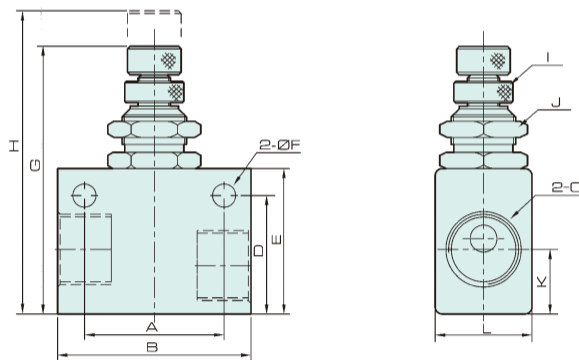


Overall Dimension

ASC-08B



ASC Series

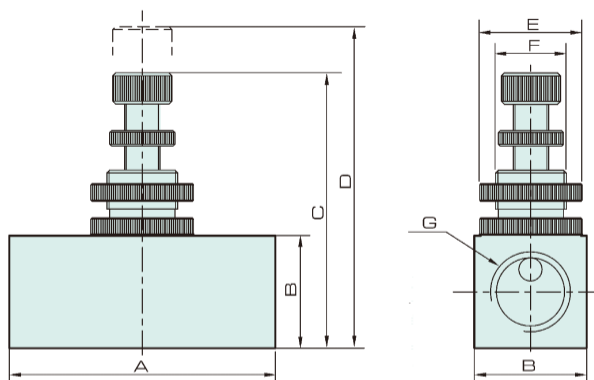


Dimension

Model	A	B	C	D	E	F	G	H	I	J	K	L
ASC-06	22	32	G1/8	22	27	4.3	49.7	56.5	M6X0.5	M12X0.75	12	18
ASC-08	26	36	G1/4	22	27	4.3	49.7	56.5	M6X0.5	M12X0.75	12	18
ASC-10	28	40	G3/8	25	30	4.3	52.7	59.5	M6X0.5	M12X0.75	13	22
ASC-15	28	40	G1/2	30	35	4.3	58.7	65.5	M6X0.5	M12X0.75	13.5	26

Overall Dimension

RE Series



Dimension

Model / Symbol	A	B	C	D	E	F	G
RE-01	43	20	48.5	52	Φ19	M14X1	G1/8
RE-02	43	20	48.5	52	Φ19	M14X1	G1/4
RE-03	53	26	54.5	61.5	Φ25	M18X1	G3/8
RE-04	53	26	54.5	61.5	Φ25	M18X1	G1/2



QE-01



QE-01



QE-02

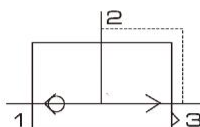


QE-03

Ordering Code

QE	01
Series Code	Port Size
QE: Quick Exhaust Valve	01: G1/8"
QEA: Quick Exhaust Valve	02: G1/4"
	03: G3/8"
	04: G1/2"
	06: G3/4"

Symbol

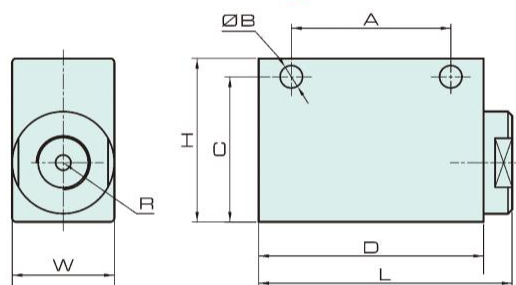


Specification

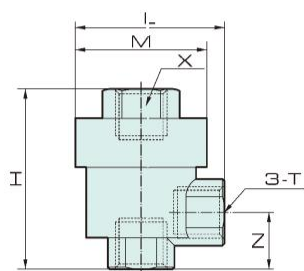
Model	QE-01	QE-02	QE-03	QE-04	QE-06
Port Size	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"
Effective Cross Section Area	16 mm ²	27.5 mm ²	28 mm ²	71 mm ²	72.5 mm ²
Working Medium	Air				
Working Pressure	0 ~ 1.0MPa				
Ambient Temperature	-20 ~ 70°C				

Overall Dimension

QE Series



QEA Series



Dimension

Model/ Symbol	R	Bore	L	W	H	A	B	C	D
QE-01	G1/4	G1/8	46	20	32	30	4.3	27	40
QE-02	G3/8	G1/4	61	25	40	39	5.5	33	55
QE-03	G3/8	G3/8	61	25	40	39	5.5	33	55
QE-04	G1/2	G3/8	52.3	28	36	-	-	-	48
QE-06	G3/4	G3/4	98	38	64	60	8.5	51	90

Model/ Symbol	T	H	L	M	N	X
QEA-01	G1/8	40	32	28	12	14
QEA-02	G1/4	45	38	33.5	14	17
QEA-03	G3/8	55.5	47	39	15.5	22
QEA-04	G1/2	62	55	43	22	24
QEA-06	G3/4	91	66	53	35	34

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

ST Series

Shuttle Valve



Valve

J4V
J4V100
J4V200
J4V300
J4V400
Manifold
JSY
Terminal
JVT
JEL
MVSD
VF
NAMUR
551
JEL10
3VJZF
Diaphragm
JELVD
3V1
Coil
2P
2V
2W
2W(big)
2L
VX
PU
PU225
2Q
JEL5404
JEL6213
Pulse
JELJZF
4H
TSV
MPV
4HV
HV, K
4R
4F210
FV
MSV
JM
ASC, RE
QE, QEA
ST
HSV



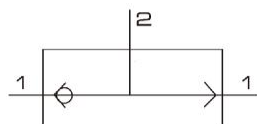
ST-01

ST-02

Ordering Code

ST	01
Series Code	Port Size
ST: Shuttle Valve	01: G1/8"
	02: G1/4"
	03: G3/8"
	04: G1/2"
	06: G3/4"
	08: G1"

Symbol

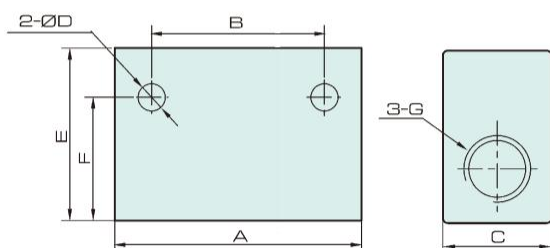


Specification

Model	ST-01	ST-02	ST-03	ST-04	ST-06	ST-08
Working Medium	Air					
Effective Cross Section Area	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"
Port Size	7.5 mm ²	21 mm ²	40mm ²	60 mm ²	110 mm ²	190mm ²
Working Pressure	0 ~ 1.0MPa					
Ambient Temperature	-20 ~ 70°C					

Overall Dimension

ST Series



Dimension

Model Symbol	A	B	C	D	E	F	G
ST-01	40	24	16	4.3	25	20.5	G1/8"
ST-02	50	35	22	5.5	35	25	G1/4"
ST-03	70	48	35	7	50	42	G3/8"
ST-04	70	48	35	7	50	42	G1/2"
ST-06	110	72	40	7	70	58	G3/4"
ST-08	110	72	40	7	70	58	G1"



HSV-01

HSV-02

HSV-03

HSV-04

Valve

J4V

J4V100

J4V200

J4V300

J4V400

Manifold

JSY

Terminal

JVT

JEL

MVSD

VF

NAMUR

551

JEL10

3VJZF

Diaphragm

JELVD

3V1

Coil

2P

2V

2W

2W(big)

2L

VX

PU

PU225

2Q

JEL5404

JEL6213

Pulse

JELJZF

4H

TSV

MPV

4HV

HV, K

4R

4F210

FV

MSV

JM

ASC, RE

QE, QEA

ST

HSV

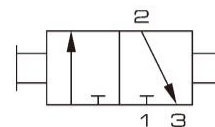
Ordering Code

HSV	01	N
Series	Port Size	Thread Type
Hand sliding series	01: G1/8"	N: Female thread
	02: G1/4"	Blank: Male thread
	03: G3/8"	
	04: G1/2"	

Feature

2/3 Hand sliding valve can be used as switch of Air source. When Air source is switched off, the remained air in system can be released.

Symbol

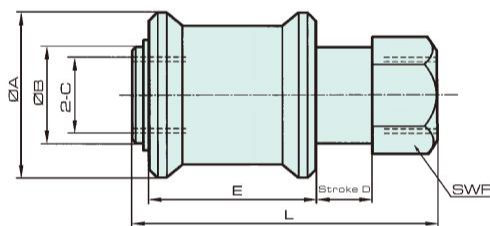


Specification

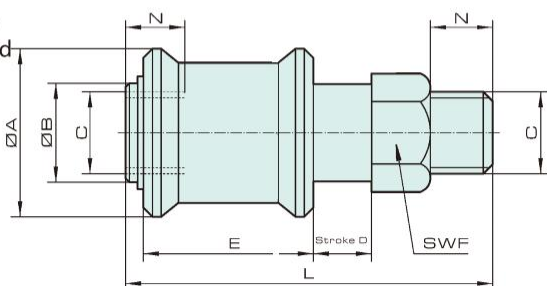
Model	HSV-01	HSV-02	HSV-03	HSV-04
Port Size	G1/8"	G1/4"	G3/8"	G1/2"
Orifice Size	4mm	7mm	10mm	12mm
Working Medium	Filtered and Compressed Air			
Working Pressure	0~1.0MPa			
Ambient Temperature	-20 ~ 70°C			
Operating Force	20N			

Overall Dimension

Female thread



Male thread



Dimension

Model/Symbol	A	B	C	D	E	F	L
HSV-01N	20	13	G1/8	5.5	20	14	32
HSV-02N	27	18	G1/4	9.5	32	19	48
HSV-03N	30	21	G3/8	9.5	32	22	48
HSV-04N	38	24	G1/2	17	40	27	70

Model/Symbol	A	B	C	D	E	F	N	L
HSV-01	20	13	G1/8	5.5	20	14	6	38
HSV-02	27	18	G1/4	9.5	32	19	10	58
HSV-03	30	21	G3/8	9.5	32	22	10	58
HSV-04	38	24	G1/2	17	40	27	10	80

1

Control Component

2



3

Air Source Unit

4

Pneumatic Accessory

EXECUTION COMPONENT



CONTENTS OF EXECUTION COMPONENT

$$Q_A = (A_1 - A_2) \times \frac{P_1 - P_2}{1.013} \times 10^{-1}$$

$$Q_B = 2(A_1 A_2) \times \frac{P_1}{1.013} \times 10^{-1}$$

$$Q_m = Q_A + Q_B \text{ (mm)}$$

2-01

Calculation Of Output Force For Pneumatic



2-57

SDA Series Compact Cylinder



2-02

SI Series Standard Cylinder (ISO15552 Standard)



2-65

CQ2 Series Compact Cylinder



2-06

SI Series Standard Cylinder Accessory (ISO15552 Standard)



2-83

TCQ2 Series Guide Cylinder



2-07

SIB Series Double Acting Booster Cylinder



2-86

ADN Series New Compact Cylinder (Conforms to ISO21287 Standard)



2-09

Super Economical Type SQ Series Standard Cylinder (ISO15552 Standard)



2-91

TADN Series Guide Cylinder



2-11

Large Size SQ Series Standard Cylinder (ISO15552 Standard)



2-94

PPRM Series Elbow Cylinder



2-14

DNT Series Economical Cylinder (ISO15552 Standard)



2-98

JHL2 Series Wide Type Air Gripper (Parallel Style)



2-15

SC/SU Series Standard Cylinder



2-105

JHF2 Series Compact Air Gripper



2-18

SCT Series Muti-Position Cylinder



2-111

JHZ2 Series Air Gripper (Parallel Type)



2-19

SC/SU Series Standard Cylinder & SQ Series Large Size Cylinder Accessory



2-123

JHY2 Series Air Gripper (Fulcrum open and close type)/ Cam Type 180°



2-23

DN Series Stainless Steel Mini Cylinder (ISO6432 Standard)



2-125

JHC2 Series Air Gripper (Angle Open and Close Type)



2-29

DSN Series Stainless Steel Mini Cylinder (ISO6432 Standard)



2-127

JXH Series Compact Slide Table Cylinder



2-33

DN/DSN Series Stainless Steel Mini Cylinder Accessory



2-134

JXQ Series Slide Table Cylinder (Linear Guide)



2-35

MA Series Stainless Steel Mini Cylinder



2-148

JXS Series Air Slide Table Cylinder (Cross Roller Type)



2-40

MAC Series Stainless Steel Mini Cylinder



2-162

TN Series Double Rod Cylinder



2-44

MA/MAC Series Stainless Steel Mini Cylinder Accessory



2-166

JPG Series Compact Guide Cylinder



2-46

MAL Series Aluminum Alloy Mini Cylinder



2-170

JSQB Series Rotary Table (Rack&Pinion Type)



2-51

MALC Series Aluminum Alloy Mini Cylinder



2-173

Sensor



2-55

MAL/MALC Series Stainless Steel Mini Cylinder Accessory

How to use Pneumatic cylinders

Notices of design usage



Warning

1. When designing pneumatic system devices, one must be with the requests and attentions of Pneumatic components and pneumatic system. Use and operate system devices under the situation that necessary examinations have been conducted and the machinery framework, pneumatic control loop and the electrical control system of pneumatic system are ensured to be in safe condition.
2. The air used is compressed air, please note that expandable and unstable pressure will fly out, burst out, or leak.
3. Due to the mechanical design with the variation of wobbling movement of the cylinder, please pay attention of flying objects and possible crash hazard of your limbs, resulting in body injury and, mechanical damage and so on, so take precaution upon designing.
4. The movable range of cylinder may contact our body and cause injury, should be protected by safety guard to prevent direct contact of body hazard.
5. For larger mechanism or long stroke object, the selected cylinder must equip with buffer device and provide with deceleration circuit to reduce and sooth the rigid impact of the mechanism device.
6. Take the emergency or transient cut off power source, or power failure, air source circuit pressure drop causing holding force drop, vertical movement slip and resulting in damage of mechanical device and human safety into account upon designing, so safety countermeasure should be taken in design.
7. Take the driving mechanism and circuit control system combination into account upon design to avoid residue pressure in circuit. Failure to completely positioning and lateral pressurized and other factors may cause high speed fly out of the object. These situations are very possible to cause body injury, limbs crashed, and damage of mechanism, countermeasure of protective circuit is necessary.
8. Emergency stop device for mechanism is essential. In case of malfunction, in addition to protective device, emergency stop device should be provided in order to prevent body injury and damage of equipment.
9. Re-start after emergency stop should be confirm safety position of all mechanism, avoid interference and impact due to error position, after human body and damage the equipment, there should have safety precaution countermeasure for restarting after emergency stop upon design.
10. While applying three positions intermediate stop control in cylinder, take the expansion property of air and low hydraulic operation, the precise intermediate position difficulty into account. For long period stop position, consider the displacement cause by air leak, Please contact the sale unit of us in case of special application.
11. Requests of peripheral environment
 - (1) Avoid to be used in environment with chemical, inflammable, corrosive and sea water, high temperature
 - (2) Avoid to be used in the place with heating and irradiative heat
 - (3) Follow the requirement stated in the specification for ambient temperature
 - (4) Avoid the environment in outdoor with sun and dusty place, which cause unstable in quality
 - (5) Avoid to be used in oily, inflammable and explosion place

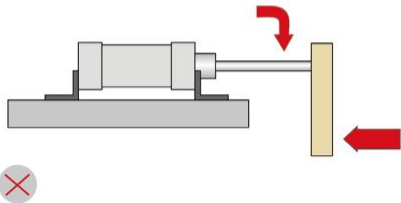
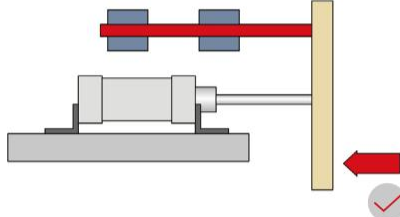
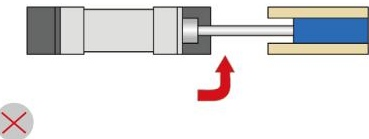
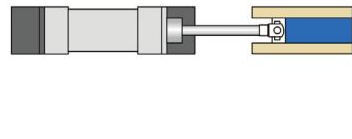
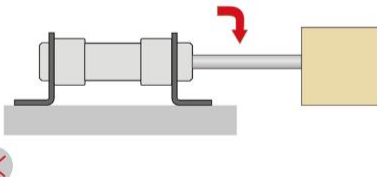
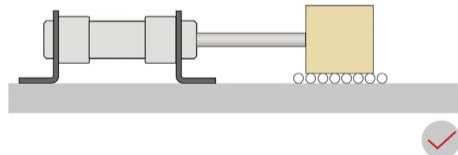
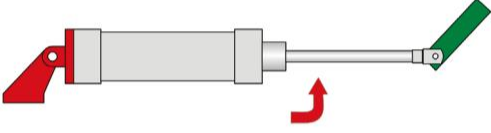
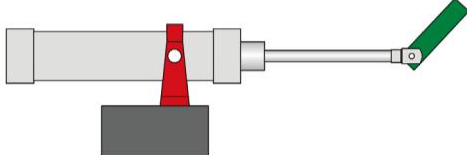


Caution

1. Prevent debris and dust from entering the cylinder while laying, which may cause failure and poor movement.
2. The use of cylinder should follow the principle of not exceeding max stroke, prevent the momentum force impact the front and rear cap of the piston.
3. The in/outlet the cylinder should be equipped with governor for controlling the traveling speed of the cylinder. It is preferable to control the cylinder by check out.
4. The cylinder with long stroke should design with intermediate support. Arbor and cylinder tube, if support on one side will cause static load deflection, in case of shock and loaded may tend to damage.
5. Plural cylinder device simultaneous moving structure, should be designed with guide rod to prevent interference and poor action.
6. The axis of the cylinder should be move consistence with load. No lateral load o shallower and will cause surface worn and damage of the arbor, and make the shaft seal packing damage resulting in leakage and poor action.
7. At the portion of external guide rod or shaft end connection object, the shaft end connection must avoid connection interference, it is preferable to connect to floating coupling or angular adjustable device, prevent damage cause by imbalance action and single side rubbing.
8. The inner wall of cylinder and arbor are precise machine, avoid scratch and knock to this portion, especially damage of the outer of the cylinder tube will lead to deformation of tube will lead to deformation of tube wall; this is cause of malfunction and damage of cylinder.
9. The cylinder is equipped with adjustment of buffer device, it should be adjusted according to the actual moving speed and max load condition, the adjustment of the needle valve of the buffer device should not be in full closed, this will cause the damage of buffer packing.
10. Prevent debris and leak proof tape residue from entering the pipe while pipe laying and assembling, the connector. Reserve 1-1.5 thread not wound with tape while winding the tape.
11. If the connector is locked by using anoxic glue, avoid excessive amount and fluid glue from flowing in the body, which may cause jammed and poor movement.
12. Caution for installation and application of sensor
 - (1) Confirm the specification and voltage value before usage
 - (2) The fixation of tie band shouldn't be tilted and skew angled
 - (3) When the sensor is connected to load with length of wire exceed 10m. equip one extra induction sensor
 - (4) Nearby the sensor in order to prevent pulse and prevent contact fail to release
 - (5) Please don't exceed the specified voltage and current
 - (6) If the lead wire of the solenoid switch is pulled by force, twisted, wobbled or put heavy object on top. Serious condition will cause short and damage of mechanism
 - (7) Please be careful and check all parts for securing before operation

How to use Pneumatic cylinders

Notices of installation

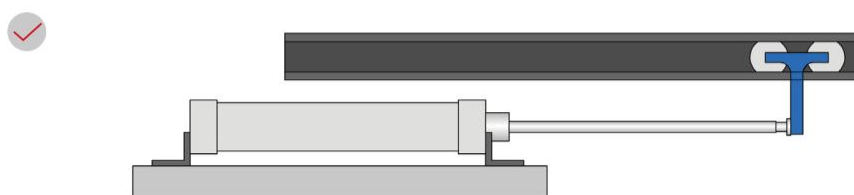
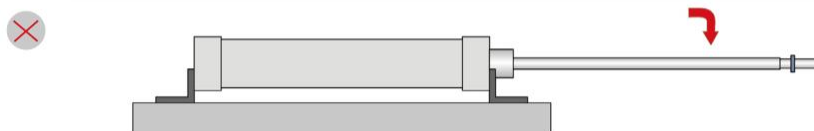
1 The axes of piston rod shall accord with the moving direction of load (coaxial). Piston rod and cylinder will produce opposite force which can easily damage the internal surface of the cylinder, guide sleeve, the surface of piston rod and seals. 	
2 Avoid direct connection of piston rod and vertical gravity, add idler wheel to support the rail. the internal surface of the cylinder, guide sleeve, the surface of piston rod and seals. Piston rod and cylinder will produce opposite force which can easily bend piston rod and damage 	
3 If back activity hinge is far from force supply point, piston rod will be influenced by torque force. To prevent that, middle action support shall be used to shorten the distance between support point and force supply point. 	
4 To prevent that back activity hinge is far from force supply point, thus the piston rod will be influenced by torque force and change to use middle action support to shorten the long distance between support point and force supply point. 	
	

How to use Pneumatic cylinders

Notices of installation

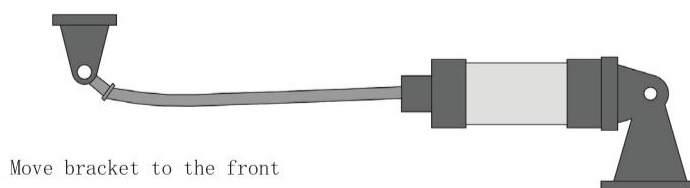
Long-stroke cylinder shall set middle guide support to prevent natural drop of piston rod and to prevent the damage on piston rod caused by the drop of piston, bend of the cylinder, vibration and external load.

5



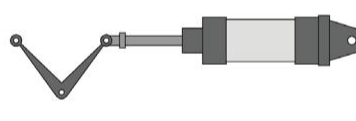
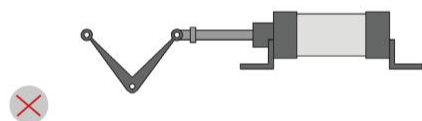
It tends to bend in long stroke, thus the installation bracket shall be move to the front cover.

6



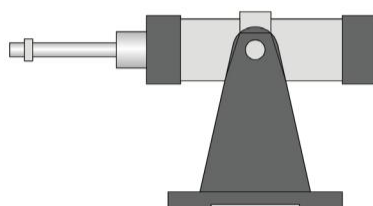
The fixed cylinder shall not be connected with the rocker carrying out circular action (LB fixation). At this time, it shall be connected with swing cylinder(CA/CN/TC fixation).

7



If the height (H) between installation surface of bearing bracket and the position of bearing is too great, when cylinder works, the installation part of the support will produce great torque force, which may cause damage to installing bolt and other parts.

8



How to use Pneumatic cylinders

Maintenance and service



Warning

1. Shut off the power switch and air source properly before service and maintenance, confirm that there is no residue pressure in the pipeline and start work after confirming the status is safe.
2. The cylinder is coated with small amount of oil at initial using state; it will decrease after a period of usage, and should be added up with appropriate amount of oil according to actual application condition, lubricant is essential in high speed moving. Limit to use ISO-VG32 lubricant, feed by oil applicator, may cause poor action if stop oiled when it is required.
3. While removing the cylinder shaft end, it shall work at position with piston pushing in the cylinder (don't pull the cylinder shaft out to serve installing and removing turning), and apply the force evenly to tighten in balance, and push by hand to confirm there is no interference and then start to supply air.
4. Service and maintenance should be perform regularly as schedule, and confirm the normal operation of following:
 - (1) Is the compressed air supplied stably?
 - (2) Is the front filter and strainer normal?
 - (3) Is the connection portion or piping loosen accompany moving of object? Is the pipe connection portion normal?
 - (4) Is the action condition of the cylinder normally? Is there any delay phenomena and exhaust normal? Any strange noise?
 - (5) Whether the piping system connected to solenoid valve (governor) normal? Terminal start and stop movement normal? Is the load system normal?
 - (6) Is the lubricant feeding normal? Is the oil amount adjusted properly?

Calculation of output force for Pneumatic cylinders



Cylinder Calculation

SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Calculations for Air consumption

$$QA = (A1 + A2) \times L \times \frac{P + 1.033}{1.033} \times 10^{-3}$$

$$QB = 2 \times A3 \times LH \times \frac{P}{1.033} \times 10^{-3}$$

$$Qn = (QA + QB) \times n$$

Qn: Air consumption of Cylinder actuating/ each time (L/min)

QA: Air volume for cylinder actuating to and back/ each time (L/min)

QB: Air Consumption Volume of Accessories (Valve the Cylinder) (L/min)

A1: Push Side Pressured Area (cm²)

A2: Pull Side Pressured Area (cm²)

A3: ID of Connecting tube (cm²)

L: Stroke of cylinder (cm)

LH: Length of tube (cm)

P: Operating Pressure (kgf/cm²)

n: Operating Frequency

Cylinder Theory Output Sheet

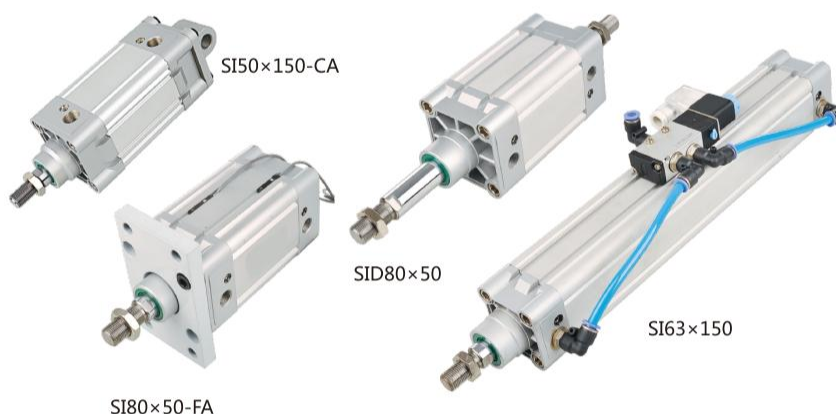
Cylinder Inside Diameter		32		40		50		63		80		100		125		160		200	
External Diameter Piston Rod		12		16		20		20		25		25		32		40		40	
Operation		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting		Double Acting	
		Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side	Extrusion Side	Pull Side
Compression Area (cm ²)		8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60	201.00	188.40	314.20	301.40
Air Pressure (Kgf /cm ²)	1	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	73.62	122.70	114.60	201.00	188.40	314.20	301.40
	2	16.08	13.80	25.12	21.10	39.26	32.98	62.34	56.06	100.52	90.72	157.06	147.24	245.40	229.20	402.00	376.80	628.40	602.80
	3	24.12	20.70	37.68	31.65	58.89	49.47	93.51	84.09	150.78	136.08	235.59	220.86	368.10	343.80	603.00	565.20	942.60	904.20
	4	32.16	27.60	50.24	42.20	78.52	65.96	124.68	112.12	201.04	181.44	314.12	294.48	490.80	458.40	804.00	753.60	1256.80	1205.60
	5	40.20	34.50	62.80	52.75	98.15	82.45	155.85	140.15	251.30	226.80	392.65	368.10	613.50	573.00	1005.00	942.00	1571.00	1507.00
	6	48.24	41.40	75.36	63.30	117.78	98.94	187.02	168.18	301.56	272.16	471.18	441.72	736.20	687.60	1206.00	1130.40	1885.20	1808.40
	7	56.28	48.30	87.92	73.85	137.41	115.43	218.19	196.21	351.82	317.52	549.71	515.34	858.90	802.20	1407.00	1318.80	2199.40	2109.80
	8	64.32	55.20	100.48	84.40	157.04	131.92	249.36	224.24	402.08	362.88	628.24	588.96	981.60	916.80	1608.00	1507.20	2513.60	2411.20
	9	72.36	62.10	113.04	94.95	176.67	148.41	280.53	252.27	452.34	408.24	706.77	662.58	1104.30	1031.40	1809.00	1695.60	2827.80	2712.60

Pressure Factors Convertibel Table

Unit	Pa	KPa	MPa	bar	mbar	kgf/cm ²	cmH ₂ O	mmH ₂ O	mmHg	p.s.i
Pa	1	10 ⁻³	10 ⁻⁶	10 ⁻⁵	10 ⁻²	10.2x10 ⁻⁶	1.02x10 ⁻³	101.97x10 ⁻³	7.5x10 ⁻³	0.15x10 ⁻³
KPa	10 ³	1	10 ⁻³	10 ⁻²	10	10.2x10 ⁻³	10.2	101.97	7.5	0.15
MPa	10 ⁶	10 ³	1	10	10 ⁴	10.2	1.02x10 ³	101.97x10 ³	7.5x10 ³	0.15x10 ³
bar	10 ⁵	10 ²	10 ⁻¹	1	10 ³	1.02	1.02x10 ³	102x10 ³	750.06	14.5
mbar	10 ²	10 ⁻¹	10 ⁻⁴	10	1	1.02x10 ⁻³	1.02	10.2	0.75	14.5x10 ⁻³
kgf/cm ²	98066.5	98.07	98.07x10 ⁻³	0.98	980.67	1	1000	10,000	735.56	14.22
cmH ₂ O	98.06	98.07x10 ⁻³	98.07x10 ⁻⁶	0.98x10 ⁻³	0.98	10 ⁻³	1	10	0.74	14.22x10 ⁻³
mmH ₂ O	9.806	9.807x10 ⁻³	9.807x10 ⁻⁶	9.807x10 ⁻⁶	9.807x10 ⁻³	10 ⁻⁴	0.1	1	73.56x10 ⁻³	1.42x10 ⁻³
mmHg	133.32	133.32x10 ⁻³	133.32x10 ⁻⁶	1.33x10 ⁻³	1.33	1.36x10 ⁻³	1.36	13.6	1	19.34x10 ⁻³
p.s.i	6894.76	6.89	6.89x10 ⁻³	68.95x10 ⁻³	68.95	70.31x10 ⁻³	70.31	703.07	51.71	1

Features

1. The cylinder is in accordance with the ISO15552.
2. The piston seal adopts two NBR+PA material as Y type one-way sealing structure with compensation function, long service life and low starting pressure.
3. The rod seal uses PU material with the characteristics of high strength, good toughness, wear resistance, oil resistance and aging resistance.
4. The piston rod material is made by 45C Carbon Steel with hard chrome plating on the surface, and the roughness $Ra < 0.4$, with good wear resistance and rust resistance.



Ordering Code

SI	D	50	50	10	S	LB
Series	Series Code	Bore	Stroke	Adjustable Stroke	Magnet	Mountings
SI: ISO 15552 Standard cylinder	Blank: Standard double acting D: Double-shaft double	32 40 50 63		10: 10mm 20: 20mm 30: 30mm 50: 50mm 75: 75mm 100: 100mm	S: With magnet Blank: Without magnet	Blank: Basic mountings LB: Front and back mounting
	J: Double-shaft with	80 100 125				FA: Front mounting flange FB: Back mounting flange
						CA: Back clevis (Single earring)
						CB: Back hinge (Double earring)
						YB: Back hinge

* Sensor model JEL-30, please refer to P173 for the specific ordering code.

Specification

Bore (mm)	32	40	50	63	80	100	125
Operation	Double Acting						
Working Medium	Air						
Mountings	Basic FA FB CA CB LB YB						
Operating Pressure Range	1 ~ 9.0 Kg/cm ²						
Proof Pressure	13.5 Kg/cm ²						
Operating Temperature Range	-20 ~ 80°C						
Operating Speed Range	50 ~ 800mm/s						
Cushion	Adjustable Cushion						
Adjustable Cushion Stroke	20mm			26mm			
Port Size	G1/8"	G1/4"	G3/8"		G1/2"		

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

SI Series

Standard Cylinder

(ISO15552 Standard)



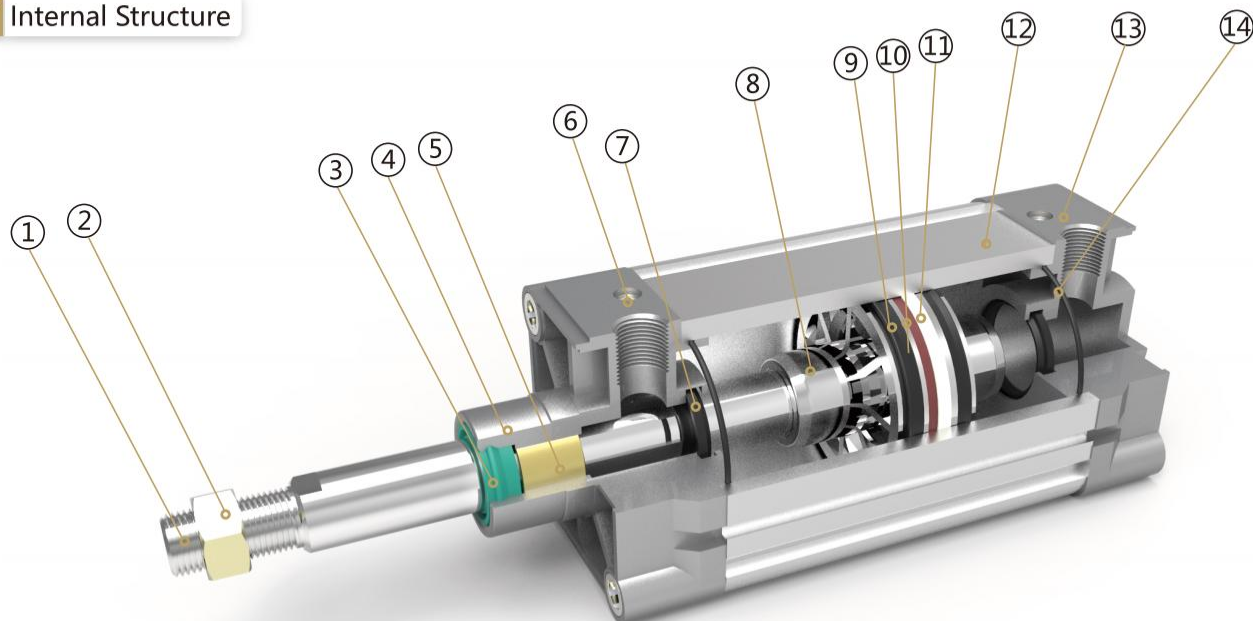
Cylinder
Calculation

SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Stroke

Bore	Standard Stroke																Max. Stroke	Allowable Stroke			
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	1000	2000			
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800		
50	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
63	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
80	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
100	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000
125	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000

Internal Structure

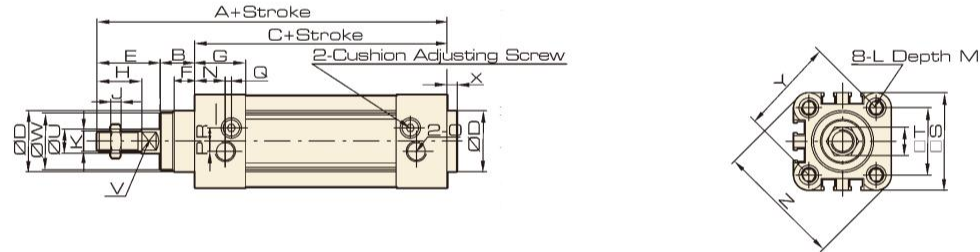


Parts

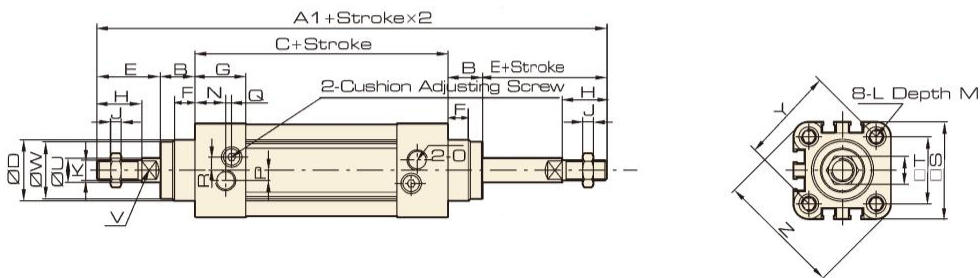
Number	Name	Number	Name
1	Piston rod	8	Piston
2	Hexagon nut	9	Y ring
3	Shaft seal	10	Magnet
4	Front cover	11	Anti-friction ring
5	Copper tube	12	Barrel
6	Cushion adjust screw	13	Back cover
7	Cushion seal	14	O ring

Overall Dimension

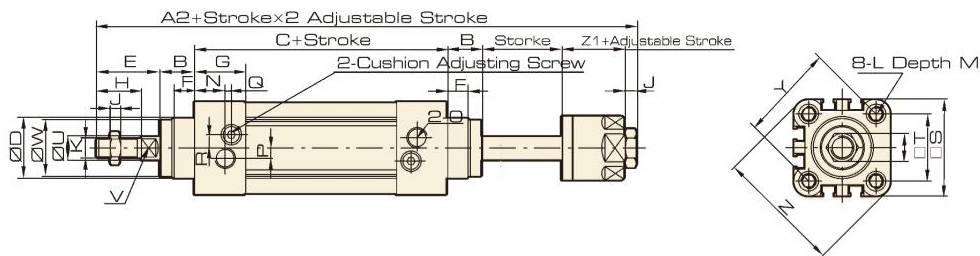
SI



SID



SIJ



Dimension

Bore/ Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	143	190	185	16	94	30	33	10	25	22	17	6	M10x1.25	M6
40	159	213	207	20	105	35	34	10	29.5	24	17	7	M12x1.25	M6
50	175	244	233	27	107	40	42	10	32	32	23	8	M16x1.5	M8
63	190	258	247	26	122	45	42	10	36	32	23	8	M16x1.5	M8
80	214	301	288	35	126	45	53	10	37	40	26	10	M20x1.5	M10
100	229	321	308	40	137	55	52	10	39	40	26	10	M20x1.5	M10
125	279	394	378	47	160	60	72	10	43	54	40	12	M27x2	M12

Bore/ Symbol	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Z1
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	28	4	46	58.7	21
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4	53.7	68	21
50	12	20	G1/4	7	3	9	65	46.5	20	17	38	4	65.8	84.5	23
63	12	22	G3/8	8	5	9	76	56.5	20	17	38	4	79.9	99.6	23
80	15	23	G3/8	10	5	12	94	72	25	22	43.5	4	101.8	123.8	29
100	15	26	G1/2	10	5	14	112	89	25	22	47	4	125.9	148.9	29
125	20	29	G1/2	10	5	14	134	110	32	27	53	6	156.9	179.6	40.5

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

SI Series

Standard Cylinder Accessory

(ISO15552 Standard)



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MAL A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

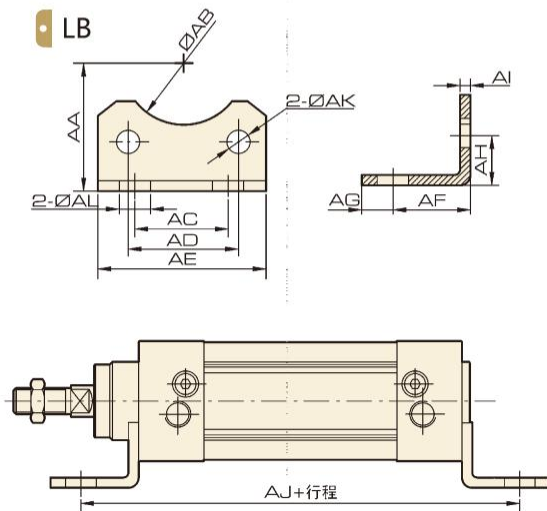
JSQB

Sensor

LB Foot

Overall Dimension

LB



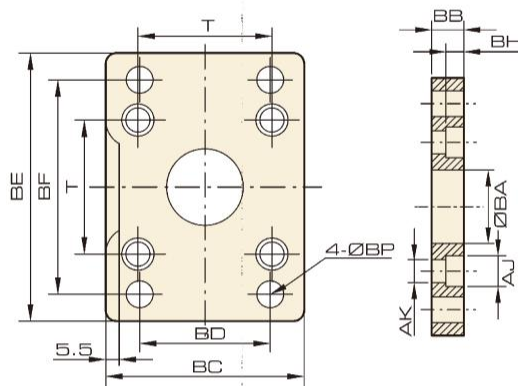
Dimension

Bore/Symbol	32	40	50	63	80	100	125
AA	32	36	45	50	63	71	90
AB	30	35	40	45	45	55	60
AC	32	36	45	50	63	75	90
AD	32.5	38	46.5	56.5	72	89	110
AE	45	52	65	75	95	115	140
AF	24	28	32	32	41	41	45
AG	11	8	15	13	14	16	18
AH	15.8	17	21.8	21.8	27	26.5	35
AI	4	4	5	5	6	6	7
AJ	142	161	170	186	208	219	250
AK	7	7	9	9	11	11	12.5
AL	7	10	10	10	12	14.5	16.5

FA / FB Flange

Overall Dimension

FA, FB

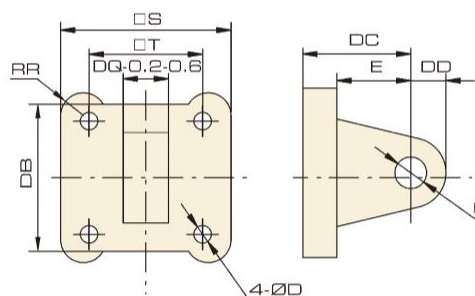


Bore/Symbol	32	40	50	63	80	100	125
BA	30.3	35.3	40.3	45.3	45.3	55.3	60.3
BB	10	10	12	12	16	16	20
BC	45	52	65	76	94	112	140
BD	32	36	45	50	63	75	90
BE	80	90	110	120	150	175	224
BF	64	72	90	100	126	150	180
BH	6.5	6.5	8.5	8.5	10.5	10.5	15
AJ	10.5	10.5	13.5	13.5	16.5	16.5	19
AK	6.5	6.5	8.5	8.5	10.5	10.5	12.5
BP	7	9	9	9	12	14	16
T	32.5	38	46.5	56.5	72	89	110

CA Hinge

Overall Dimension

CA

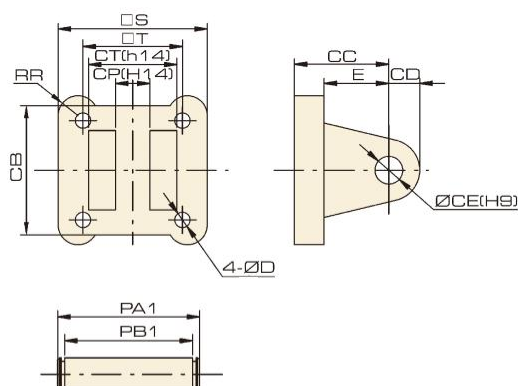


Dimension

Bore/Symbol	32	40	50	63	80	100	125
S	45	52	65	76	94	112	140
T	32.5	38	46.5	56.5	72	89	110
RR	6.5	6.5	9	9.5	11	11.5	12
DB	34	41	54	65	83	101	123
DC	22	25	27	32	36	41	50
DD	10	11	13	16	16	20	25
DE	10	12	12	16	16	20	25
DQ	26	28	32	40	50	60	70
D	6.5	6.5	8.5	8.5	10.5	10.5	12.5
E	14	17	17	22	24	25	30

CB Hinge

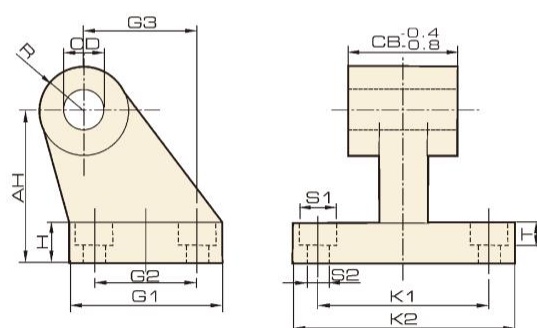
CB



Bore/Symbol	32	40	50	63	80	100	125
S	45	52	65	76	94	112	140
T	32.5	38	46.5	56.5	72	89	110
D	6.5	6.5	8.5	8.5	10.5	10.5	12.5
E	14	17	17	22	24	25	30
RR	6.5	6.5	9	9.5	11	11.5	12
CB	34	41	54	65	83	101	123
CC	22	25	27	32	36	41	50
CD	10	11	13	16	16	20	25
CE	10	12	12	16	16	20	25
CP	26	28	32	40	50	60	70
CT	45	52	60	70	90	110	120
PA1	53	60	68	78	100	120	130
PB1	46.5	53.5	61.5	71.5	91.5	111.5	121.5

YB Hinge

YB



Bore/Symbol	32	40	50	63	80	100
AH	32	36	45	50	63	71
H	8	10	12	12	14	15
CD	10	12	12	16	16	20
G1	31	35	45	50	60	70
G2	18	22	30	35	40	50
G3	21	24	33	37	47	55
CB	26	28	32	40	50	60
K1	38	41	50	52	66	76
K2	51	54	65	67	86	96
S2	6.6	6.6	9	9	11	11
R	10	11	13	15	15	19

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

SIB Series

Double Acting Booster Cylinder



Features

SIB series booster cylinder is the combination of two ISO15552 standard cylinders which share the same bore size and stroke. Its push and restoring force is two times of the standard cylinder. Two cylinders are linked by the connect base whose material is the same as the cylinder. It is compact in structure and easy for installation.



Ordering Code

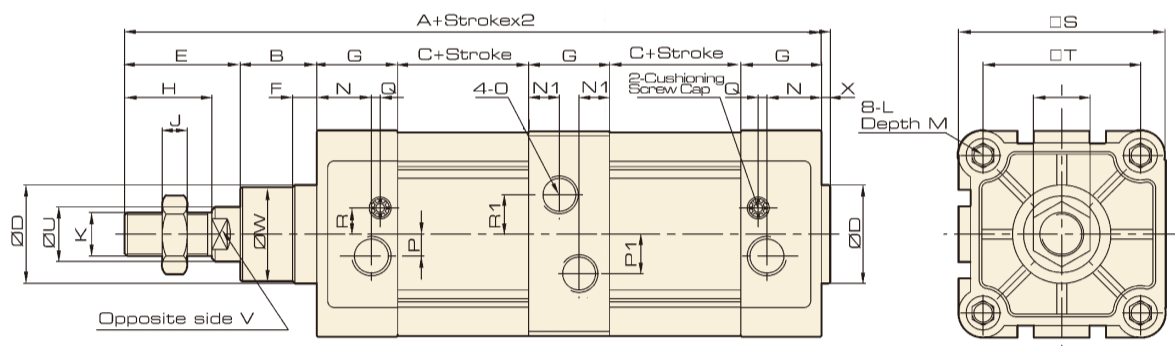
SIB	63	50	S	LB
Series Code	Bore	Stroke	Magnet	Mountings
SIB: Double acting booster cylinder	32 40 50 63 80 100 125		S: With magnet Blank: Without magnet	Blank: Basic mountings LB: Front and back mounting FA: Front mounting flange FB: Back mounting flange CA: Back clevis (Single earring) CB: Back hinge (Double earring) YB: Back hinge

* Sensor model JEL-30, please refer to P173 for the specific ordering code.

Specification

Bore (mm)	32	40	50	63	80	100	125
Operation	Double Acting						
Working Medium	Air						
Mounting	Basic FA FB CA CB LB YB						
Operating Pressure Range	1 ~ 9.0kgf/cm ²						
Proof Pressure	13.5kgf/cm ²						
Operating Temperature Range	-20 ~ 80°C						
Operating Speed Range	50 ~ 500 mm/s						
Cushion	Air Cushion						
Adjustable Cushion Stroke	20mm			26mm			
Port Size	G1/8"	G1/4"		G3/8"		G1/2"	

Overall Dimension



Dimension

Model Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M
32	214	16	43	30	33	10	25	22	17	6	M10X1.25	M6	9.5
40	236.5	20	45	35	34	10	29.5	24	17	7	M12X1.25	M6	9.5
50	252	27	41	40	42.5	10	32	32	23	8	M16X1.5	M6	9.5
63	278	26	49	45	42	10	36	32	23	8	M16X1.5	M8	9.5
80	308	35	52	45	53	10	37	40	26	10	M20X1.5	M10	11.5
100	339	40	59	55	52	10	39	40	26	10	M20X1.5	M10	11.5
125	399	46.5	72	60	71	10	43.5	54	40	10	M27X2	M12	15.5

Model Symbol	N	N1	O	P	P1	Q	R	R1	S	T	U	V	W	X
32	15	7.5	G1/8	5	6	3	6.5	6	45	32.5	12	10	28	4
40	17.5	9.5	G1/4	7	7.5	3	7	7.5	52	38	16	13	33	4
50	20	16	G1/4	7	10.5	3	9	10.5	65	46.5	20	17	38	4
63	22	13	G3/8	8	13	5	9	13	76	56.5	20	17	38	4
80	23	14	G3/8	10	18	5	12	18	94	72	25	22	43.5	4
100	26	19.5	G1/2	10	20	5	14	20	112	89	25	22	47	4
125	29	21.75	G1/2	10	30	5	14	30	134	110	32	27	53	6

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

Super Economical Type SQ Series Standard Cylinder (ISO15552 Standard)



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Feature

SQ Series cylinder is a new super economical cylinder patent product. Body and covers are latest innovated, with new structure, smart, cost reduced, material saved. The installation dimension is the same as SI, conforms to ISO 15552 standard.



Ordering Code

SQ	D	50	50	10	S	LB
Series	Series Code	Bore	Stroke	Adjustable Stroke	Magnet	Mountings
SQ: ISO 15552 Standard cylinder	Blank: Standard double acting	32	25-1000mm	10: 10mm	S: With magnet	Blank: Basic mountings
	D: Double-shaft double acting	40		20: 20mm	Blank: Without magnet	LB: Front and back mounting
		50		30: 30mm		
		63		50: 50mm		FA: Front mounting flange
	J: Double-shaft with adjustable stroke	80		75: 75mm		FB: Back mounting flange
		100		100: 100mm		
						CA: Back clevis (Single earring)
						
						CB: Back hinge (Double earring)
						
						YB: Back hinge
						

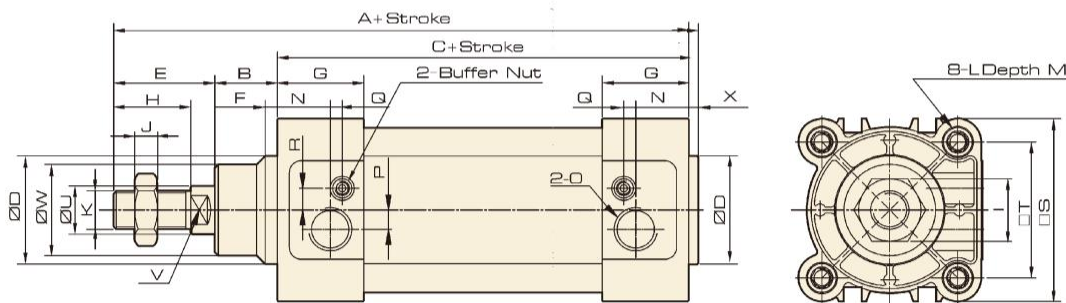
* Sensor model JEL-30, please refer to P173 for the specific ordering code.

Specification

Bore (mm)	32	40	50	63	80	100
Operation	Double Acting					
Working Medium	Air					
Mounting	Basic FA FB CA CB LB YB					
Operating Pressure Range	0.1 ~ 1MPa					
Proof Pressure	1.5MPa					
Operating Temperature Range	-20 ~ 70°C					
Operating Speed Range	50 ~ 800mm/s					
Cushion	Adjustable Cushion					
Adjustable Cushion Stroke	20mm			26mm		
Port Size	G1/8"	G1/4"		G3/8"		G1/2"

Overall Dimension

SQ32-100



Dimension

Bore /Symbol	A	B	C	D	E	F	G	H	I	J	K	L
32	143	16	94	30	33	4	25	22	17	6	M10x1.25	M6
40	159	20	105	35	34	4	29.5	24	17	7	M12x1.25	M6
50	175	27	107	40	42.5	5	32	32	23	8	M16x1.5	M8
63	190	26	122	45	42	5	36	32	23	8	M16x1.5	M8
80	214	35	127	45	53	6	37	40	26	10	M20x1.5	M10
100	229	40	137	55	52	6	39	40	26	10	M20x1.5	M10

Bore /Symbol	M	N	O	P	Q	R	S	T	U	V	W	X
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	25	4
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4
50	12	20	G1/4	7	3	9	65	46.5	20	17	36	4
63	12	22	G3/8	8	5	9	76	56.5	20	17	38	4
80	15	23	G3/8	10	5	12	94	72	25	22	43	4
100	15	26	G1/2	10	5	14	112	89	25	22	43.5	4

*The installation dimension of super economy SQ series cylinder is the same as SI series cylinder and all the cylinder accessories and sensor switch can share with SI cylinder.

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

Large Size SQ Series Standard Cylinder (ISO15552 Standard)



Features

1. The cylinder is in accordance with the ISO15552.
2. The piston seal adopts two Y type one-way seals with compensation function, long service life and low starting pressure.
3. The cylinder cushion adjustment is smooth and the cushioning distance is long.
4. The cylinder bearings and wear rings have long distances and better lateral load performance.
5. The front and rear cover and piston adopt high pressure casting technology, with beautiful appearance and stronger strength.



Ordering Code

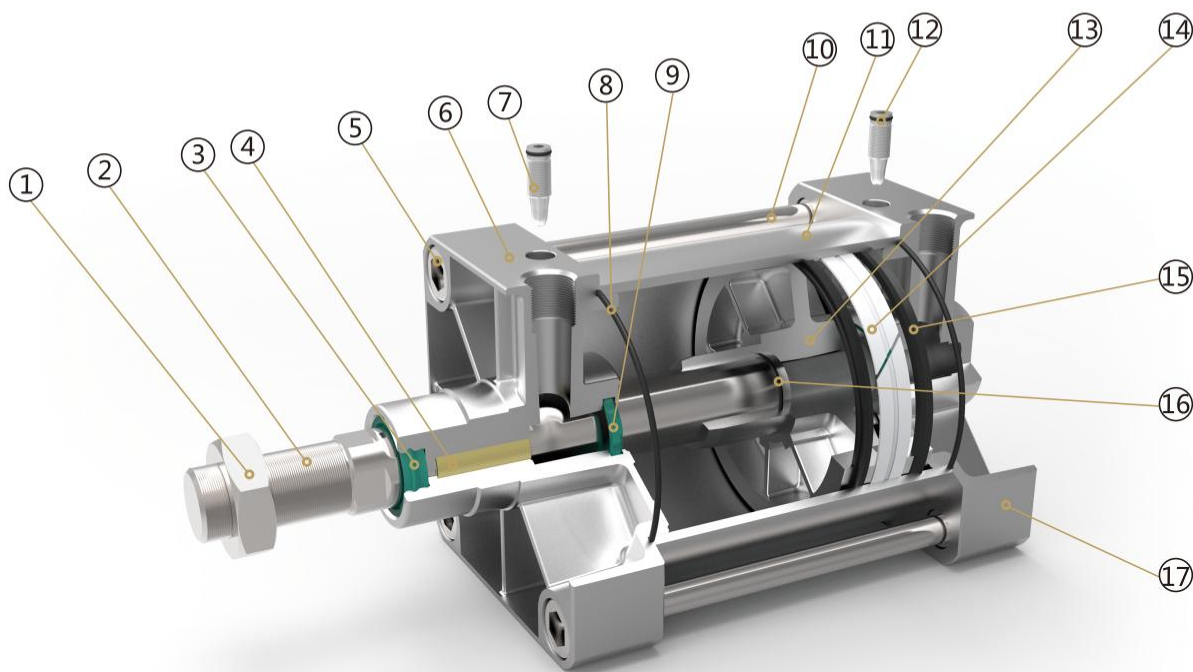
SQ	D	160	x	50	10	S	LB
Series	Series Code	Bore		Stroke	Adjustable Stroke	Magnet	Mountings
SQ: Large Size Series	Blank: Standard double acting	125		25-1000mm	10: 10mm	S: With magnet	Blank: Basic mountings
	D: Double-shaft double acting	160			20: 20mm	Blank: Without magnet	LB: Front and back mounting
	J: Double-shaft adjustable stroke	200			30: 30mm		FA: Front mounting flange
		250			50: 50mm		FB: Back mounting flange
		320			75: 75mm		CA: Back clevis (Single earring)
					100: 100mm		CB: Back hinge (Double earring)

* Sensor model JEL-11, please refer to P173 for the specific ordering code.

Specification

Bore (mm)	125	160	200	250	320
Operation	Double Acting				
Working Medium	Air				
Mounting	Basic FA FB CA CB LB				
Operating Pressure Range	0.1 ~ 1MPa				
Proof Pressure	1.5MPa				
Operating Temperature Range	-20 ~ 70°C				
Operating Speed Range	30-500mm/s				
Cushion	Adjustable Cushion				
Adjustable Cushion Stroke	40mm	50mm			
Port Size	G1/2"	G3/4"		G1"	

Internal Structure



Parts

Number	Name	Number	Name
1	Hexagon nut	10	Tie Rod
2	Piston rod	11	Barrel
3	Shaft seal	12	O ring
4	DU Bearing	13	Piston
5	Cover screw	14	Anti-friction ring
6	Front cover	15	Piston seal
7	Cushion adjust screw	16	O ring
8	O ring	17	Back cover
9	Cushion seal		

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

Large Size SQ Series Standard Cylinder (ISO15552 Standard)



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

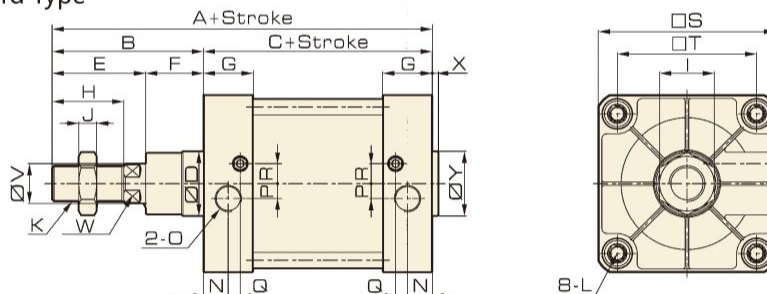
JGP

JSQB

Sensor

Overall Dimension

SQ125-320 Standard Type



Dimension

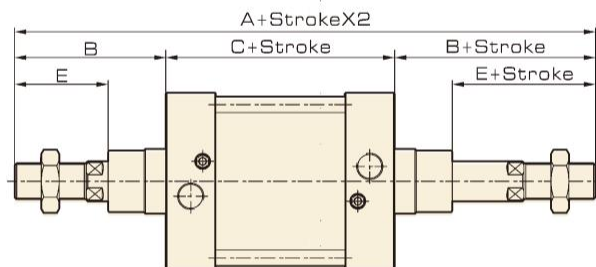
Bore /Symbol	A	B	C	D	E	F	G	H	I	J	K
125	279	119	160	60	74	45	45	54	41	13.5	M27×2
160	332	152	180	65	94	58	50	72	55	18	M36×2
200	347	167	180	75	100	67	50	72	55	18	M36×2
250	389	189	200	90	114	75	60	84	65	21	M42×2
320	436	216	220	110	126	90	65	96	75	24	M48×2

Bore /Symbol	L	N	O	P	Q	R	S	T	V	W	X	Y
125	M12	23	G1/2	14	12	14	140	110	32	27	4	60
160	M16	25	G3/4	15	12	20	178	140	40	36	6	65
200	M16	25	G3/4	15	12	20	220	175	40	36	5	75
250	M20	30	G1	20	10	25	270	220	50	45	8	90
320	M24	31	G1	35	15	35	350	270	63	55	10	110

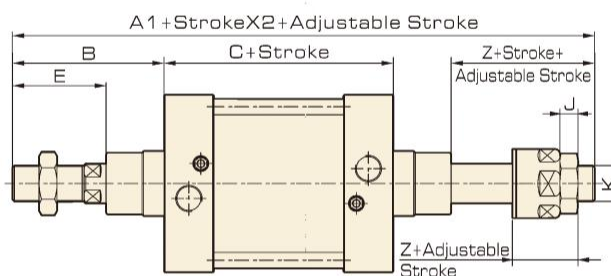
* Cylinder with or without magnet is the same size.

Overall Dimension

SQD125-200 Double Rods Type



SQJ125-200 Double Rods with Adjustable Type



Dimension

Bore /Symbol	A	A1	B	C	E	Z	J	K
125	398	366.5	119	160	74	42.5	13.5	M27×2
160	484	449	152	180	94	55	18	M36×2
200	514	473	167	180	100	55	18	M36×2

* 1. Cylinder with or without magnet is the same size. 2. The no marked size is same with SQ standard.

with the same
ms to ISO15552
structure, compact

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MA

MAL

MALC

MAL/MALCA.

SDA

CO2

TCO2

ADN

TADN

RRPM

$$\frac{11 \text{ km}}{141.2}$$
$$\frac{JHE2}{JHE2}$$
$$\frac{2112}{1172}$$
$$\frac{JHZZ}{JHYZ}$$
$$\frac{JHYZ}{JH62}$$
JALZ

JMU
$$\frac{JXH}{IXO}$$
$$\frac{JXQ}{JXQ}$$

JGP

JSQB

Senso

Barrel of DNT Cylinder

The image contains two technical drawings. On the left is a top-down view of a circular flange with four mounting holes. On the right is a perspective view of a cylindrical component with a flange and a central bore.

SC / SU Series

Standard Cylinder



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor



Ordering Code

SC	D	50	x	50	-	10	-	S	-	LB
Series	Series Code	Bore	Stroke	Adjustable Stroke	Magnet	Mountings				
SC: Tie rod type 	Blank: Standard double acting 	32 40 50		10: 10mm 20: 20mm 30: 30mm 50: 50mm 75: 75mm 100: 100mm	S: With magnet Blank: Without magnet	Blank: Basic mounting LB: Foot 				
SU: Profile type 	D: Double-shaft double acting  J: Double-shaft with adjustable stroke type 	63 80 100 125				FA: Front flange FB: Back flange 				
						CA: Back hinge 				
						CB: Back hinge 				
						TC-M: Center trunnion 				

* Sensor model JEL-21, please refer to P173 for the specific ordering code.

Specification

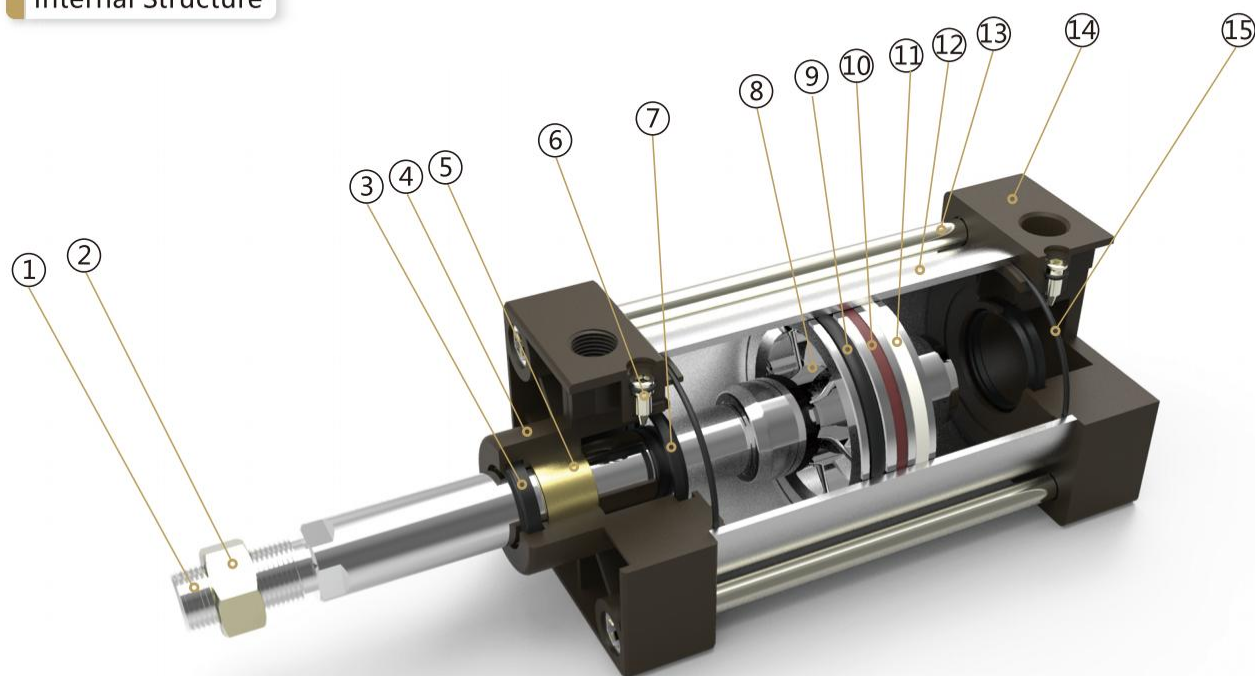
Bore (mm)	32	40	50	63	80	100	125
Operation	Double Acting						
Working Medium	Air						
**Mountings	Basic FA FB CA CB LB TC TC-M						
Operating Pressure Range	1 ~ 9.0Kgf/cm ²						
Proof Pressure	13.5Kgf/cm ²						
Operating Temperature Range	-20 ~ 80°C						
Operating Speed Range	50 ~ 800mm/s						
Cushion	Adjustable Cushion						
Adjustable Cushion Stroke	20mm			26mm			
Port Size	G1/8"	G1/4"		G3/8"		G1/2"	

* SCD, SCJ mountings: FA, FB, LB, TC and TC-M type.

Stroke

Bore	Standard Stroke																		Max. Stroke	Allowable Stroke					
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500							1000	2000	
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800					1200	2000
50	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000			1200	2000
63	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000			1500	2000
80	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000			1500	2000
100	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000			1500	2000
125	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000			1500	2000

Internal Structure



Parts

Number	Name	Number	Name
1	Piston rod	9	Piston seal
2	Hexagon nut	10	Magnet
3	Shaft seal	11	Anti-friction ring
4	Front cover	12	Barrel
5	Copper tube	13	Pull rod
6	Cushion adjust screw	14	Back cover
7	Cushion seal	15	O ring
8	Piston		

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

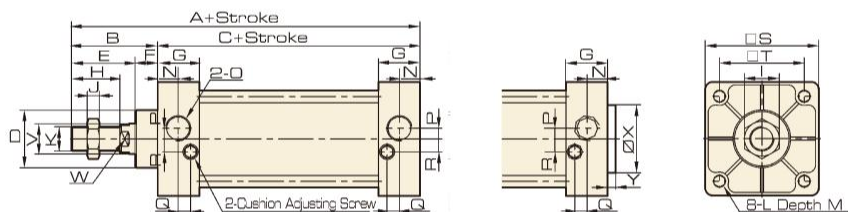
SC / SU Series

Standard Cylinder

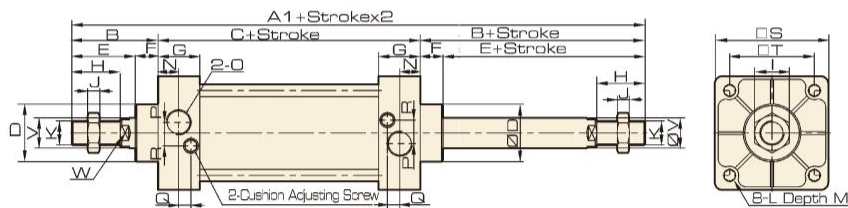


Overall Dimension

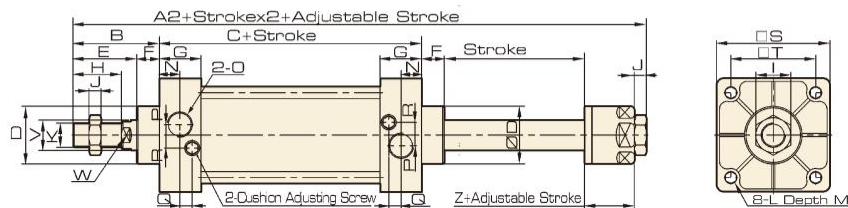
SC



SCD



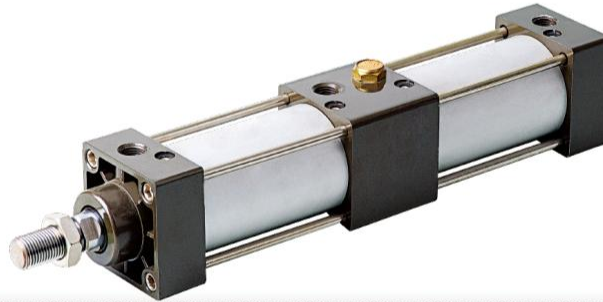
SCJ



Dimension

Bore/ Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L
32	140	187	182	47	93	28	32	15	27.5	22	17	6	M10×1.25	M6
40	141	191	185	48	93	32	34	15	27.5	24	17	7	M12×1.25	M6
50	150	207	196	57	93	38	42	15	27.5	32	23	8	M16×1.5	M6
63	153	210	199	57	96	38	42	15	27.5	32	23	8	M16×1.5	M8
80	183	258	243	75	108	47	54	21	33	40	26	10	M20×1.5	M10
100	189	264	249	75	114	47	54	21	33	40	26	10	M20×1.5	M10
125	226	330	313	104	122	55	70	34	33	54	40	10	M27×2	M12

Bore/ Symbol	M	N	O	P	Q	R	S	T	V	W	Z
32	9.5	13.5	G1/8	3.5	7.5	7	45	33	12	10	21
40	9.5	1.5	G1/4	6	8.2	9	50	37	16	14	21
50	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	17	23
63	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	17	23
80	11.5	16.5	G3/8	10	9.5	14	94	70	25	22	25.5
100	11.5	16.5	G1/2	11	9.5	14	112	84	25	22	25.5
125	15.5	16.5	G1/2	10	10	11	140	110	32	27	30



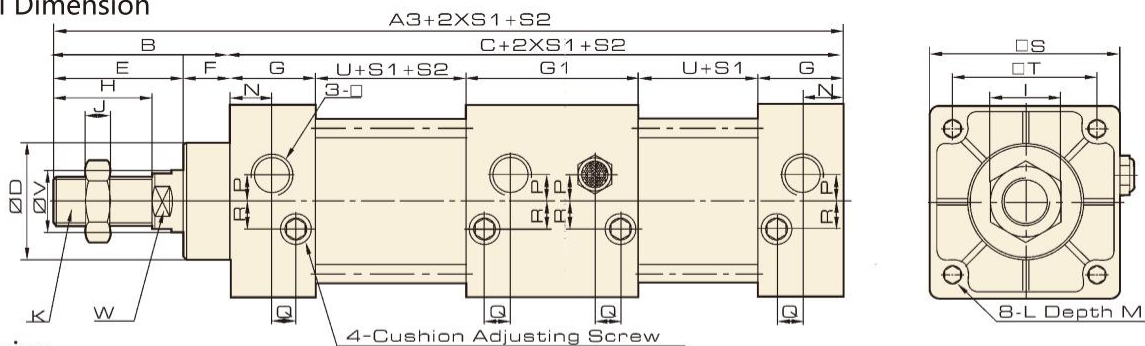
Ordering Code

SCT	63	x	30	x	50	-	S	-	LB
Series	Bore		Stroke 1		Stroke 2		Magnet		Mountings
SCT: Muti-position cylinder	32						S: With magnet Blank: Without magnet		Blank: Basic mounting LB: Foot FA: Front flange FB: Back flange CA: Back hinge CB: Back hinge
	40								
	50								
	63								
	80								
	100								

*It is booster cylinder
while second stroke is 0.

Overall Dimension

SCT



Dimension

Bore/ Symbol	A3	B	C	D	E	F	G	G1	H	I	J	K
32	233	47	186	28	32	15	27.5	55	22	17	6	M10x1.25
40	235	49	186	32	34	15	27.5	55	24	17	7	M12x1.25
50	243	57	186	38	42	15	27.5	55	32	23	8	M16x1.5
63	249	57	192	38	42	15	27.5	55	32	23	8	M16x1.5
80	296	75	221	47	54	21	33	66	40	26	10	M20x1.5
100	310	75	235	47	54	21	33	66	40	26	10	M20x1.5
125	350	104	122	55	70	34	33	66	54	40	10	M27x2

Bore/ Symbol	L	M	N	O	P	Q	R	S	T	V	U	W
32	M6x1	9.5	13.7	G1/8	3.5	7.5	7	45	33	12	38	10
40	M6x1	9.5	13.5	G1/4	6	8.2	9	50	37	16	38	14
50	M6x1	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	38	17
63	M8x1.25	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	41	17
80	M10x1.5	11.5	16.5	G3/8	10	9.5	14	94	70	25	41	22
100	M10x1.5	11.5	16.5	G1/2	10	9.5	14	112	84	25	47	22
125	M12x1.75	15.5	16.5	G1/2	10	10	11	140	110	32	57	27

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

SC/SU Series Standard Cylinder & SQ Series Large Size Cylinder Accessory

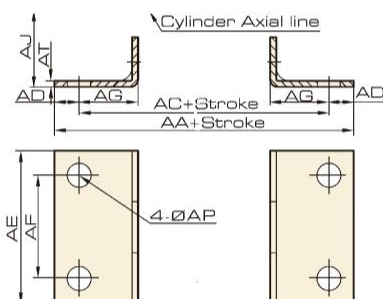


Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

LB Foot

Overall Dimension

LB

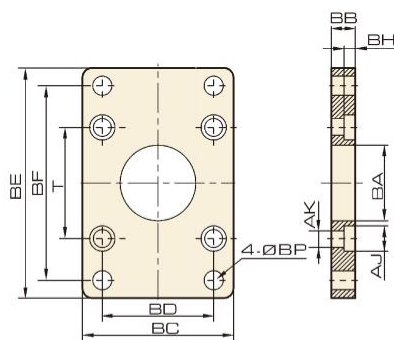


Dimension

Bore/Symbol	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	200	210	249	328	380
AC	134	140	149	158	168	174	249	288	320
AD	9.5	14.5	12	12	16	18	18	20	28
AE	50	57	68	80	97	112	140	180	220
AF	33	36	47	56	70	84	90	115	135
AG	20.5	23.5	28	31	30	30	45	60	70
AJ	28	30	36.5	41	49	57	90	115	135
AP	9	12	12	12	14	14	16	18	22
AT	3	3	3	3	4	4	7	7	9

FA / FB Flange

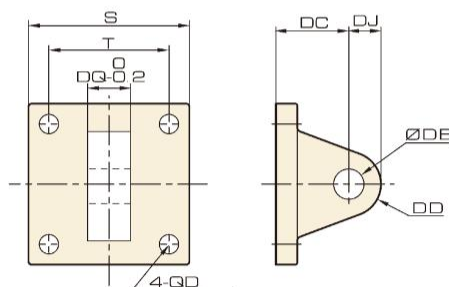
FA, FB



Bore/Symbol	32	40	50	63	80	100	125	160	200
BA	28.3	32.3	38.3	38.3	47.3	47.3	62	72	82
BB	10	10	10	12	16	16	20	20	25
BC	47	52	65	76	95	115	141	180	220
BD	33	36	47	56	70	84	90	115	135
BE	72	84	104	116	143	162	218	278	322
BF	58	70	86	98	119	138	180	230	270
BH	6.5	6.5	6.5	8.5	10.5	10.5	13	15	18
AJ	10.5	10.5	10.5	13.5	16.6	16.6	19	25	25
AK	6.5	6.5	6.5	8.5	10.5	10.5	12.5	18	18
BP	7	7	9	9	12	12	16	18	22
T	33	37	47	56	70	84	110	140	175

CA Clevis

CA

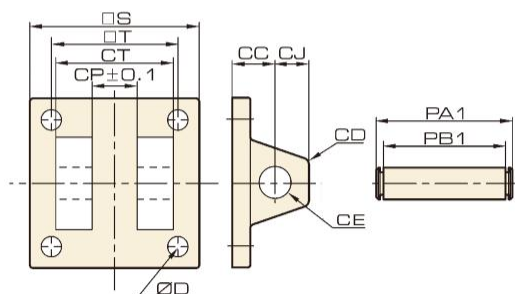


Bore/Symbol	32	40	50	63	80	100	125	160	200
S	45	50	62	75	94	112	140	177	217
T	33	37	47	56	70	84	110	140	175
DC	34	34	34	34	48	48	50	55	60
DD	14	14	15	15	20	20	25	30	30
DE	12	14	14	14	20	20	25	30	30
DJ	14	14	15	15	20	20	25	28	25
DQ	16	20	20	20	32	32	70	90	90
D	6.5	6.5	6.5	8.5	10.5	10.5	12.5	18	18

CB Double Earring

Overall Dimension

CB

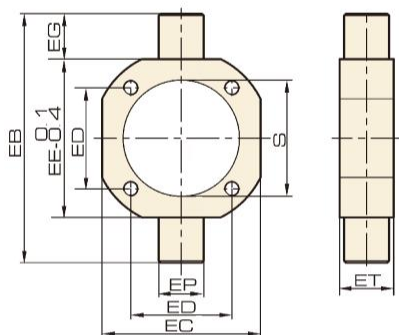


Dimension

Bore/Symbol	32	40	50	63	80	100	125	160	200
CC	19	19	19	19	32	32	50	55	60
CD	5	5	3	3	8	8	25	30	35
CE	12	14	14	14	20	20	25	30	30
CJ	13	13	15	15	21	21	25	25	33
CP	16.3	20.5	20.3	20.3	32.3	32.3	70	90	90
CT	32	44	52	52	64	64	120	162	75
PA1	41	53	61	61	75	75	136	176	188
PB1	34	46	54	54	66	66	124	162	177
S	48	50	62	75	94	112	140	176	217
T	33	37	47	56	70	84	110	140	175
D	6.5	6.5	6.5	8.5	10.5	10.5	12.5	18	18

Overall Dimension

TC



TC Center Trunnion

Bore/Symbol	32	40	50	63	80	100	125	160	200
EB	87	113	126	138	164	182	210	276	320
EC	53	63	76	88	114	132	150	94	244
ED	33	37	47	56	70	84	110	140	175
EE	55	63	76	88	114	132	160	200	245
EG	16	25	25	25	25	25	25	36	36
EP	16	25	25	25	25	25	30	32	32
ET	30	30	30	30	35	40	36	40	46
S	37.5	45.5	55.5	68.5	87.5	107.5	135	72	210

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

SC/SU Series Standard Cylinder & SQ Series Large Size Cylinder Accessory



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

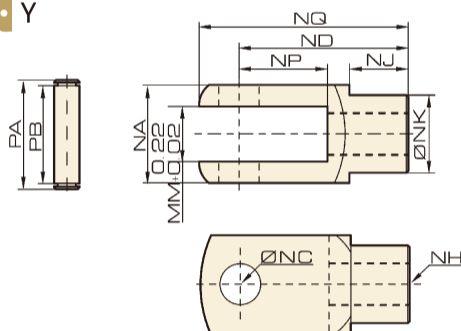
JGP

JSQB

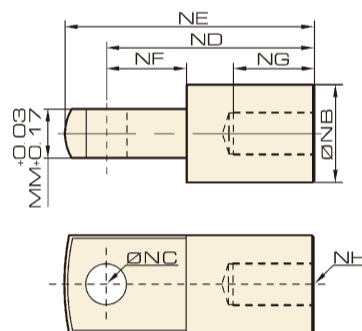
Sensor

Overall Dimension

Y

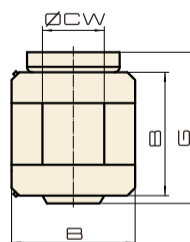
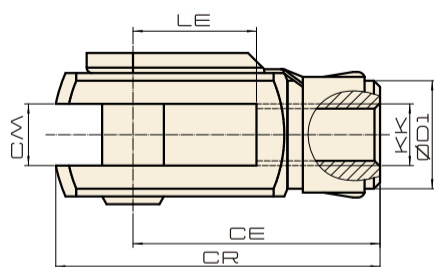


I



Dimension

Model	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	MM	NP	NQ	PA	PB
F-M10125I/Y	19	20	10	40	52	15	20	M10×1.25	15.5	16	10	20	52	30	21
F-M12125I/Y	24	24	12	48	62	24	20	M12×1.25	20.5	20	12	24	62	36	27
F-M16150I/Y	32	32	16	64	89	32	23	M16×1.5	26	30	16	32	83	44	34
F-M16150I/Y	32	32	16	64	89	32	23	M16×1.5	26	30	16	32	83	44	34
F-M20150I/Y	40	40	20	80	112	40	30	M20×1.5	30	38	20	39.5	105	52	42
F-M20150I/Y	40	40	20	80	112	40	30	M20×1.5	30	38	20	39.5	105	52	42
F-M27200I/Y	62	49	20	99	122	54	50	M27×2	28	38	30	43	120	75	66
F-M36200I/Y	70	61	30	125	155	43	70	M36×2	40	53	40	43	153	96	82
F-M36200I/Y	70	61	30	125	155	43	70	M36×2	40	53	40	43	153	96	82

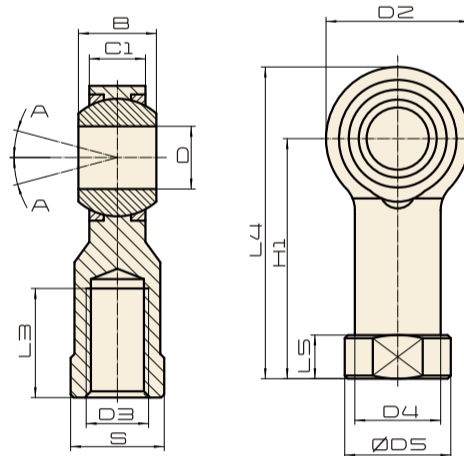


CK Type Y Knuckle

Dimension

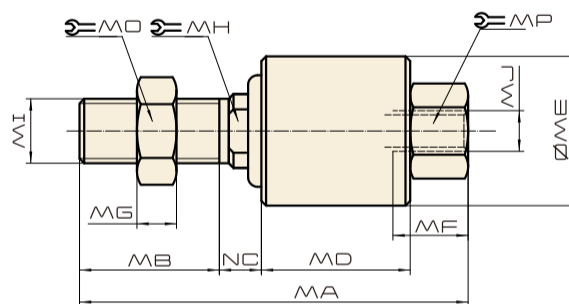
Model	KK	B	CE	CM	CR	CW	D1	G	LE
F-M04070CK	M4X0.7	8	16	4	21	4	8	11	8
F-M05080CK	M5X0.8	10	20	5	26	5	9	13	10
F-M06100CK	M6×1	12	24	6	31	6	10	16	12
F-M08125CK	M8×1.25	16	32	8	42	8	14	20	16
F-M10125CK	M10×1.25	20	40	10	52	10	18	25.5	20
F-M12125CK	M12×1.25	24	48	12	62	12	20	29.5	24
F-M14150CK	M14×1.5	27	56	14	72	14	24	29.5	28
F-M16150CK	M16×1.5	32	64	16	83	16	26	38.5	32
F-M18150CK	M18×1.5	36	72	18	94	18	30	42	36
F-M20150CK	M20×1.5	40	80	20	105	20	34	47	40
F-M27200CK	M27×2	55	112	30	148	30	48	63	56

Overall Dimension

PHSA Universal
Piston Rod Eye

Dimension

Model	D3	D	D2	D5	S	B	L5	C1	H1	L3	D4	L4	A°
F-M05070PHSA	M5X0.8	5	18	11	9	8	4	6	27	10	8.5	36	13
F-M06100PHSA	M6X1	6	20	13	11	9	5	6.75	30	12	10	40	13
F-M08125PHSA	M8X1.25	8	24	16	14	12	5	9	36	16	12.5	48	14
F-M10125PHSA	M10X1.25	10	28	19	17	14	6.5	10.5	43	20	15	57	13
F-M12125PHSA	M12X1.25	12	32	22	19	16	6.5	12	50	22	17.5	66	13
F-M14125PHSA	M14X1.5	14	36	25	22	19	8	13.5	57	25	20	75	16
F-M16125PHSA	M16X1.5	16	40	27	24	21	8	15	64	28	22	84	15
F-M18150PHSA	M18X1.5	18	44	31	27	23	10	16.5	71	32	25	93	15
F-M20150PHSA	M20X1.5	20	50	34	30	25	10	18	77	33	27.5	102	14
F-M27200PHSA	M27X2	30	70	50	41	37	15	25	110	51	40	145	17

FDJT Piston
Floating Joint

Dimension

Model	MI	MJ	MA	MB	MD	ME	MF	MH	MP	MC	MO	MG
F-M06100FDJT	M6X1	M6X1	35	13	12	16	8	6	10	5	10	5
F-M08125FDJT	M8X1.25	M8X1.25	53	20	18	24	12	8	13	6	14	6
F-M10125FDJT	M10X1.25	M10X1.25	58	22	21	26	13	10	17	7	17	6
F-M12125FDJT	M12X1.25	M12X1.25	64	22	24	32	15	12	19	8	19	7
F-M16150FDJT	M16X1.5	M16X1.5	90	27	36	45	23	17	27	12	24	8
F-M20150FDJT	M20X1.5	M20X1.5	102	32	40	53	28	22	32	13	30	10
F-M27200FDJT	M27X2	M27X2	120	37	48	60	35	26	41	15	36	12

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

DN Series

Stainless Steel Mini Cylinder

(ISO6432 Standard)



Features

1. Improving for adapting wide range applications, using precisepolishing of piston rod, more sense of products quality and longer life of front seal.
2. Optima design and improve the production efficiency.
3. Combined with enterprise color planning and new structure design, stainless steel series cylinder integrated as the semicircular groove cramping.
4. Using embedded gasket, increase the pressured area of pistons after collision.



DN25X75

Ordering Code

DN	32	x 50	10	S	U	E	LB
Series	Bore	Stroke	Adjustable Stroke	Magnet	Back Form	Piston Rod Material	Mountings
DN: Double Acting	8		10: 10mm	S: With magnet	Blank: Standard with eye mounting	Blank: Carbon steel	Blank: Basic mountings
	10		20: 20mm	Blank: Without magnet		E: Stainless steel	LB: Front and back mounting
	12		30: 30mm				
DS: Single acting, Spring-Return	16		50: 50mm		CM: Standard with round back cover		FA: Front mounting flange
	20		75: 75mm				FB: Back mounting flange
	25		100: 100mm		U: Standard with flat back cover		SDB: Back
DT: Single acting, Spring-Extend	32						
	40						
DND: Double-shaft							
DNJ: Double-shaft with adjustable stroke							

* Sensor model JEL-01, Strap type "SKB-Bore" , please refer to P173 for the specific ordering code.

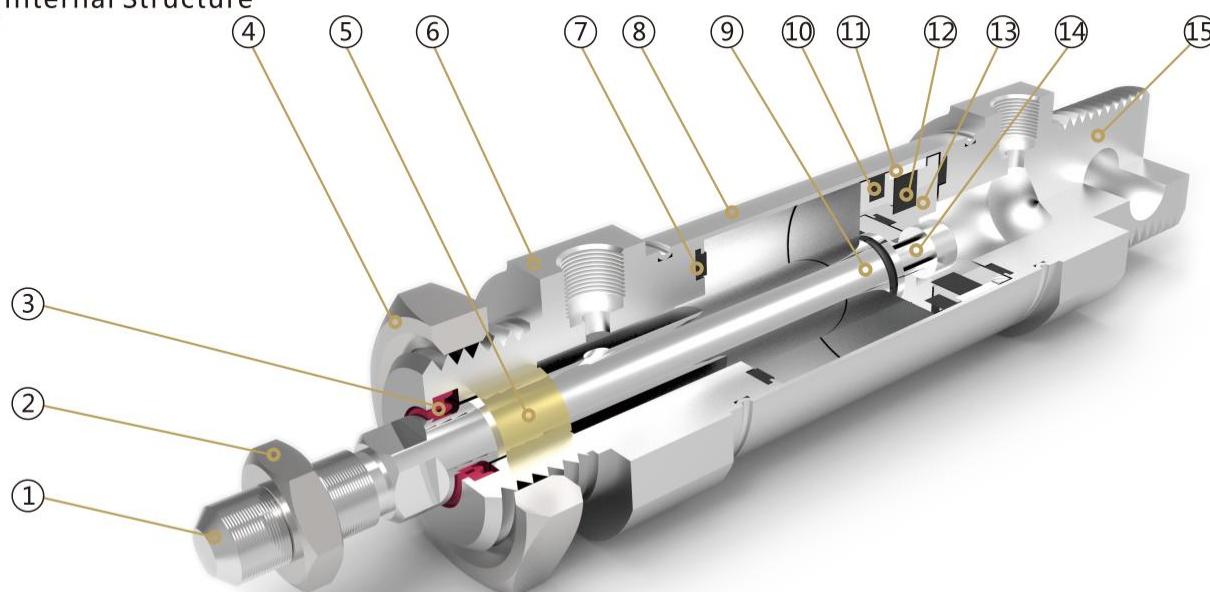
Specification

Bore (mm)	08	10	12	16	20	25	32	40
Operation	Double Acting or Single Acting							
Working Medium	Air							
Mountings	Basic LB FA FB SDB							
Operating Pressure	0.1 ~ 1.0MPa							
Proof Pressure	1.5 MPa							
Operating Temperature Range	-20 ~ 80°C							
Operating Speed Range	50 ~ 800mm/s							
Cushion	Gasket Cushion							
Port Size	M5x0.8				G1/8"			

Stroke

Bore		Standard Stroke																		Max. Stroke			
DN	8	15	20	25	30	40	50	60	75	80	100	125	150							150			
	10	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200				200			
	12	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250				250		
DN/DSN	16/20/25/32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300			500	
DND/DNJ	8	15	20	25	30	40	50	60	75	80	100											100	
	10	15	20	25	30	40	50	60	75	80	100											100	
	12	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200						250	
DND/DNJ	16/20/25	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300			300	
DSND/DSNJ	32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300			300	
DS/DT	8/10/12	15	20	25	30	40	50																50
	16	15	20	25	30	40	50	60	75	80	100											100	
	20/25/32/40	15	20	25	30	40	50	60	75	80	100	125	150									150	

Internal Structure



Parts

Number	Name	Number	Name
1	Piston rod	9	O ring
2	Hexagon nut	10	Piston seal
3	Shaft seal	11	Anti-friction seal
4	Hexagon nut	12	Magnet
5	DU bearing	13	Piston
6	Front cover	14	Socket head cap screw
7	Anti-collision gasket	15	Back cover
8	Barrel		

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

DN Series

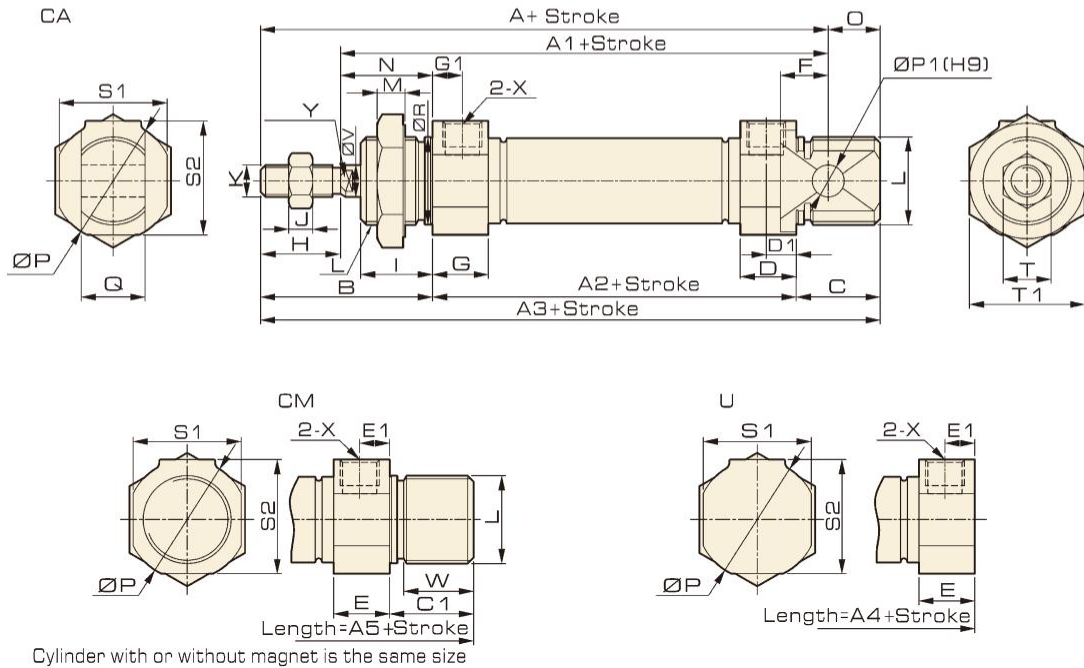
Stainless Steel Mini Cylinder

(ISO6432 Standard)



Overall Dimension

DN



Dimension

Bore Symbol	A	A1	A2	A3	A4	A5	B	C	C1	D	D1	E	E1	F	G	G1	H	I
8	76	64	46	86	74	86	28	12	12	10	5.5	10	5.5	6	10	5.5	12	12
10	76	64	46	86	74	86	28	12	12	10	5.5	10	5.5	6	10	5.5	12	12
12	91	74	50	105	88	105	38	17	17	10	6	10	6	9	10	6	16	17
16	98	82	55	111	92	111	37	19	19	10.5	6	10.5	6	9	10.5	6	16	16
20	115	95	64	128	107	128	43	21	21	14	7.5	14	7.5	12	14	7.5	20	18
25	126	104	66	137	116	137	50	21	21	15	8	15	8	12	15	8	22	22
32	135	113	72	147	120	132	48	27	12	17	8.5	17	8.5	15	17	8.5	22	18
40	138	115	72	150	123	136	51	27	14	16	8	16	8	15	16	8	23	20

Bore Symbol	J	K	L	M	N	O	P	P1	Q	R	S1	S2	T	T1	X	V	W	Y
8	6	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	15	7	17	M5×0.8	4	9.3	-
10	6	M4×0.7	M12×1.25	6	16	10	17	4	8	12	15	15	7	17	M5×0.8	4	9.3	-
12	5	M6×1	M16×1.5	6	22	14	21	6	12	16	19	19	10	24	M5×0.8	6	14	5
16	5	M6×1	M16×1.5	6	21	13	21	6	12	16	19	19	10	24	M5×0.8	6	15.5	5
20	6	M8×1.25	M22×1.5	7	23	13	30	8	16	22	27	28.5	14	29	G1/8	8	17.5	6
25	6	M10×1.25	M22×1.5	7	28	11	30	8	16	22	27	28.5	17	29	G1/8	10	17.5	8
32	6	M10×1.25	M27×2	9	26	12	38	10	20	27	35	36.5	17	36	G1/8	12	8	10
40	8	M14×1.5	M33×2	9	28	12	45	10	20	33	42	43.5	22	45	G1/4	16	10	14

CA

CM

U

Dimension

Bore/Symbol	M	N	O	P	P1	Q	R	S1	S2	T	T1	X	V	W	Y
8	6	16	10	17	4	8	12	15	15	7	17	M5×0.8	4	9.3	-
10	6	16	10	17	4	8	12	15	15	7	17	M5×0.8	4	9.3	-
12	6	22	14	21	6	12	16	19	19	10	24	M5×0.8	6	14	5
16	6	21	13	21	6	12	16	19	19	10	24	M5×0.8	6	15.5	5
20	7	23	13	30	8	16	22	27	28.5	14	29	G1/8	8	17.5	6
25	7	28	11	30	8	16	22	27	28.5	17	29	G1/8	10	17.5	8
32	9	26	12	38	10	20	27	35	36.5	17	36	G1/8	12	8	10
40	9	28	12	45	10	20	33	42	43.5	22	45	G1/4	16	10	14

Sensor

DT



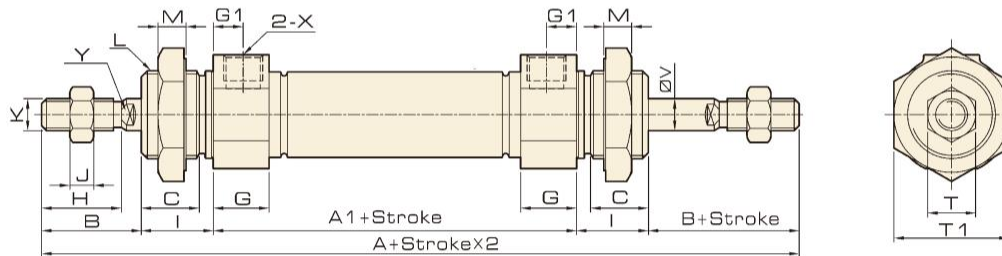
Symbol	A			A1			A2			A3			A4			A5		
Bore/Stroke	0-50	50-100	100-150	0-50	50-100	100-150	0-50	50-100	100-150	0-50	50-100	100-150	0-50	50-100	100-150	0-50	50-100	100-150
8	101	-	-	89	-	-	71	-	-	111	-	-	99	-	-	111	-	-
10	101	-	-	89	-	-	71	-	-	111	-	-	99	-	-	111	-	-
12	116	-	-	99	-	-	75	-	-	130	-	-	113	-	-	130	-	-
16	123	148	-	107	132	-	80	105	-	136	161	-	117	142	-	136	161	-
20	140	165	190	120	145	170	89	114	139	153	178	203	132	157	182	153	178	203
25	151	176	201	129	154	179	91	116	141	162	187	212	141	166	191	162	187	212
32	160	185	210	138	163	188	97	122	147	172	197	222	145	170	195	157	182	207
40	163	188	213	140	165	190	97	122	147	175	200	225	148	173	198	161	186	211

Bore/Symbol	B	C	C1	D	D1	E	E1	F	G	G1	H	I	J	K	L
8	28	12	12	10	5.5	10	5.5	6	10	5.5	12	12	6	M4×0.7	M12×1.25
10	28	12	12	10	5.5	10	5.5	6	10	5.5	12	12	6	M4×0.7	M12×1.25
12	38	17	17	10	6	10	6	9	10	6	16	17	5	M6×1	M16×1.5
16	37	19	19	10.5	6	10.5	6	9	10.5	6	16	16	5	M6×1	M16×1.5
20	43	21	21	14	7.5	14	7.5	9	14	7.5	20	18	6	M8×1.25	M22×1.5
25	50	21	21	15	8	15	8	12	15	8	22	22	6	M10×1.25	M22×1.5
32	48	27	12	17	8.5	17	8.5	15	17	8.5	22	18	6	M10×1.25	M27×2
40	51	27	14	16	8	16	8	15	16	8	23	20	8	M14×1.5	M33×2

Bore/Symbol	M	N	O	P	P1	Q	R	S1	S2	T	T1	X	V	W	Y
8	6	16	10	17	4	8	12	15	15	7	17	M5×0.8	4	9.3	-
10	6	16	10	17	4	8	12	15	15	7	17	M5×0.8	4	9.3	-
12	6	22	14	21	6	12	16	19	19	10	24	M5×0.8	6	14	5
16	6	21	13	21	6	12	16	19	19	10	24	M5×0.8	6	15.5	5
20	7	23	13	30	8	16	22	27	28.5	14	29	G1/8	8	17.5	6
25	7	28	11	30	8	16	22	27	28.5	17	29	G1/8	10	17.5	8
32	9	26	12	38	10	20	27	35	36.5	17	36	G1/8	12	8	10
40	9	28	12	45	10	20	33	42	43.5	22	45	G1/4	16	10	14

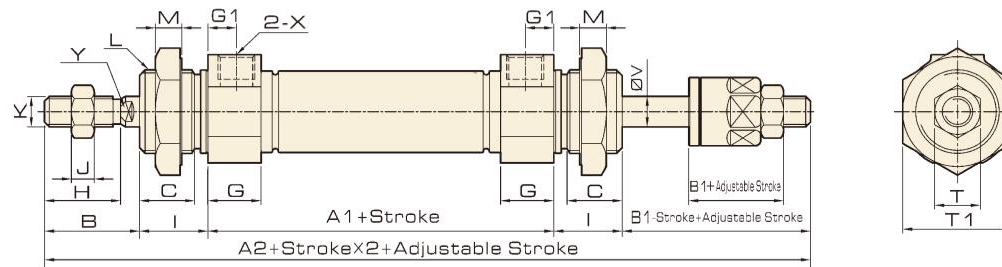
Overall Dimension

DND



Cylinder with or without magnet is the same size

DNJ



Cylinder with or without magnet is the same size

Dimension

Bore Symbol	A	A1	A2	B	B1	C	D	G	G1	H	I	J	K	L	M	T	T1	V	X
8	102	46	100.5	16	14.5	9.3	-	10	5.5	12	12	6	M4×0.7	M12×1.25	6	7	17	4	M5×0.8
10	102	46	100.5	16	14.5	9.3	-	10	5.5	12	12	6	M4×0.7	M12×1.25	6	7	17	4	M5×0.8
12	126	50	126	21	21	14	5	10	6	16	17	5	M6×1	M16×1.5	6	10	24	6	M5×0.8
16	129	55	129	21	21	13	5	10.5	6	16	16	5	M6×1	M16×1.5	6	10	24	6	M5×0.8
20	150	64	150	27	25	14.5	6	14	7.5	20	18	6	M8×1.25	M22×1.5	7	14	29	8	G1/8
25	166	66	165	28	27	18.5	8	15	8	22	22	6	M10×1.25	M22×1.5	7	17	29	10	G1/8
32	168	72	165	30	27	14	10	17	8.5	22	18	6	M10×1.25	M27×2	9	17	36	12	G1/8
40	174	72	172	31	29	16	14	16	8	23	20	8	M14×1.5	M33×2	9	22	45	16	G1/4

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

1. Improving for adapting wide range applications, using precise polishing of piston rod, more sense of products quality and longer life of front seal.
2. Optima design and improve the production efficiency.
3. Combined with enterprise color planning and new structure design, stainless steel series cylinder integrated as the semicircular groove cramping.
4. Change processing technology of cylinder cushion structure to ensure buffering function in stabilization.
5. Improved the range of buffering fine-tune, enable customers to more easily adjust the buffer throttling speed.



DSN	32	x	50	-	10	-	S	-	U	-	E	-	LB
Series	Bore		Stroke		Adjustable Stroke		Magnet		Back Form		Piston Rod Material		Mountings
DSN: Double Acting	16				10: 10mm		S: With magnet		Blank: Standard with eye mounting		Blank: Carbon steel		Blank: Basic mountings
	20				20: 20mm		Blank: Without magnet				E: Stainless steel		LB: Front and back mounting
DSND: Double-shaft	25				30: 30mm								
	32				50: 50mm								FA: Front mounting flange
DSNJ: Double-shaft with adjustable stroke	40				75: 75mm								FB: Back mounting flange
					100: 100mm								
													SDB: Back hinge

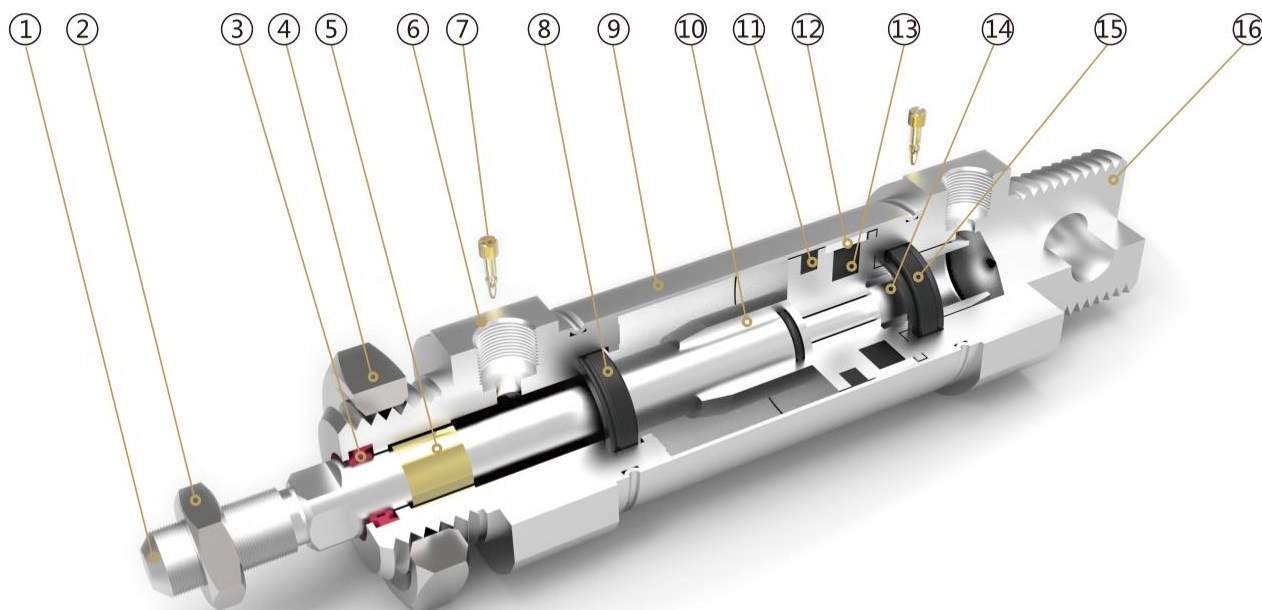
Sensor model JEL-01, Strap type "SKB-Bore", please refer to P173 for the specific ordering code.

Bore (mm)	16	20	25	32	40
Operation	Double Acting				
Working Medium	Air				
Mountings	Basic LB FA FB SDB				
Operating Pressure Range	0.1 ~ 1.0MPa				
Proof Pressure	1.5 MPa				
Operating Temperature Range	-20 ~ 80°C				
Operating Speed Range	50 ~ 800mm/s				
Cushion	Adjustable Air Cushion				
Port Size	M5X0.8	G1/8"			

Stroke

Bore		Standard Stroke																			Max. Stroke
DSN	16/20/25/32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	500	
	16/20/25	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	300	
DSND/DSNJ	32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	300	

Internal Structure

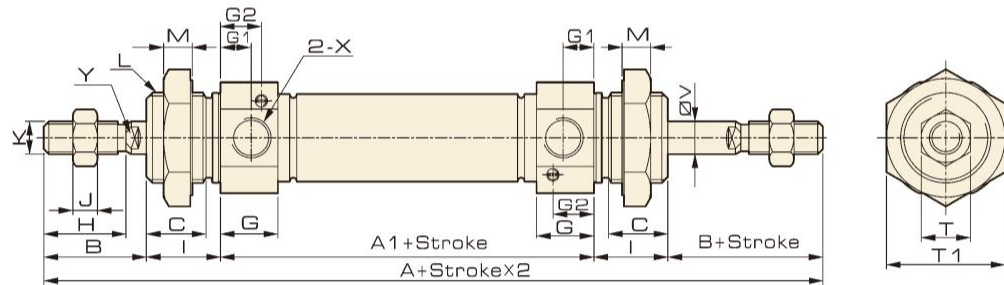


Parts

Number	Name	Number	Name
1	Piston rod	9	Barrel
2	Hexagon nut	10	Piston
3	Shaft seal	11	Piston seal
4	Hexagon nut	12	Anti-friction seal
5	DU bearing	13	Magnet
6	Front cover	14	Socket head cap screw
7	Anti-collision gasket	15	Cushion
8	Cushion	16	Back cover

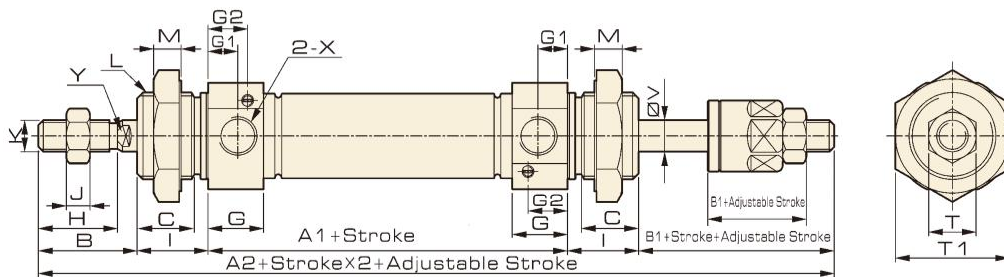
Overall Dimension

DSND



Cylinder with or without magnet is the same size

DSNJ



Cylinder with or without magnet is the same size

Dimension

Bore Symbol	A	A1	A2	B	B1	C	D	G	G1	G2	H	I	J	K	L	M	T	T1	V	X
16	129	55	129	21	21	13	5	10.5	6	7	16	16	5	M6×1	M16×1.5	6	10	24	6	M5×0.8
20	150	64	150	27	25	14.5	6	14	7.5	10	20	18	6	M8×1.25	M22×1.5	7	14	29	8	G1/8
25	166	66	165	28	27	18.5	8	15	8	10.5	22	22	6	M10×1.25	M22×1.5	7	17	29	10	G1/8
32	168	72	165	30	27	14	10	17	8.5	12	22	18	6	M10×1.25	M27×2	9	17	36	12	G1/8
40	174	72	172	31	29	16	14	16	8	11.5	23	20	8	M14×1.5	M33×2	9	22	45	16	G1/4

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

DN / DSN

Mini Cylinder Accessory



Cylinder
Calculation

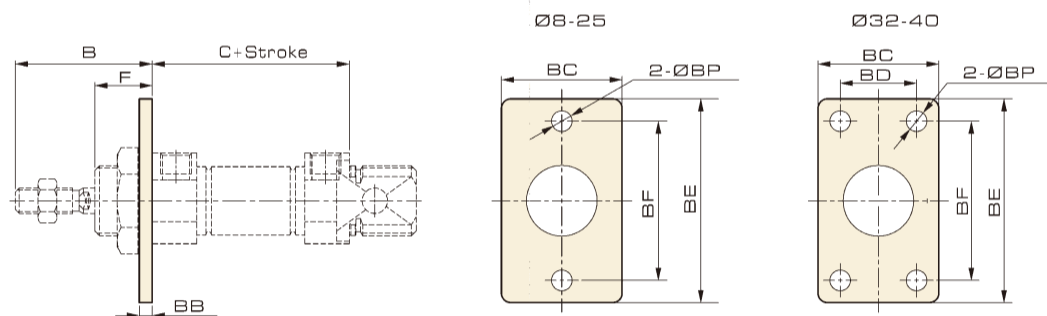
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.

MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.

SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Overall Dimension

FA

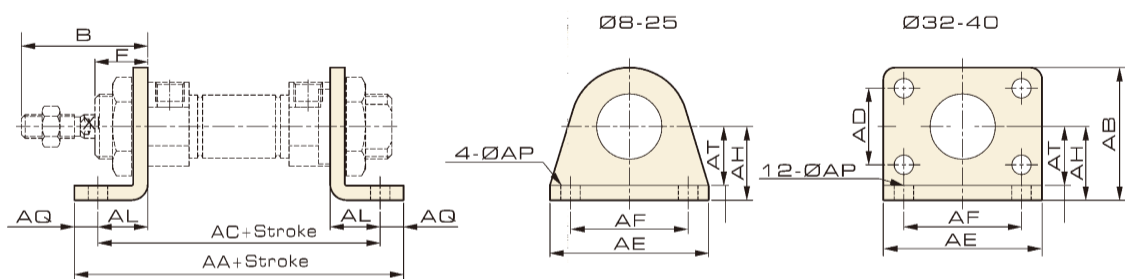


Dimension

Symbol Bore Stroke	B	C (DN, DSN Series)	C (DS/DT Series)			BB	BC	BD	BE	BF	BP	F
			0-50	50-100	100-150							
8	28	46	71	-	-	3	22	-	40	30	4.5	12
10	28	46	71	-	-	3	22	-	40	30	4.5	12
12	38	50	75	-	-	4	30	-	52	40	5.5	17
16	37	55	80	105	-	4	30	-	52	40	5.5	16
20	43	64	89	114	139	5	40	-	66	50	6.6	16
25	50	66	91	116	141	5	40	-	66	50	6.6	22
32	48	72	97	122	147	5	45	20	80	60	7	18
40	51	72	97	122	147	5	50	30	100	80	9	20

Overall Dimension

LB

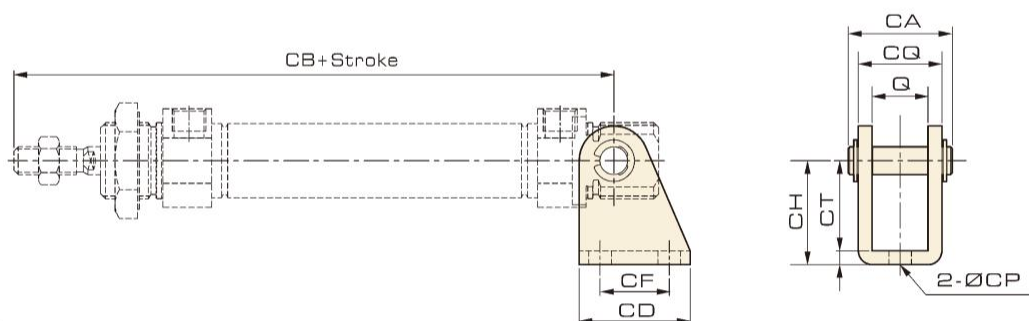


Dimension

Symbol Bore Stroke	B	AA (DN, DSN Series)	AA (DS/DT Series)			AB	AC (DN, DSN Series)	AC (DS/DT Series)			AD	AE	AF	AH	AL	AP	AQ	AT	F
			0-50	50-100	100-150			0-50	50-100	100-150									
8	28	78	103	-	-	-	68	93	-	-	-	35	25	16	11	4.5	5	3	12
10	28	78	103	-	-	-	68	93	-	-	-	35	25	16	11	4.5	5	3	12
12	38	90	115	-	-	-	78	103	-	-	-	42	32	20	14	5.5	6	4	17
16	37	95	120	145	-	-	83	108	133	-	-	42	32	20	14	5.5	6	4	16
20	43	114	139	164	189	-	98	123	148	173	-	54	40	25	17	6.6	8	5	16
25	50	116	141	166	191	-	100	125	150	175	-	54	40	25	17	6.6	8	5	22
32	48	118	143	168	193	49	104	129	154	179	28	66	52	28	16	7	7	5	18
40	51	132	157	182	207	58	112	137	162	187	30	80	60	33	20	9	10	5	20

Overall Dimension

SDB

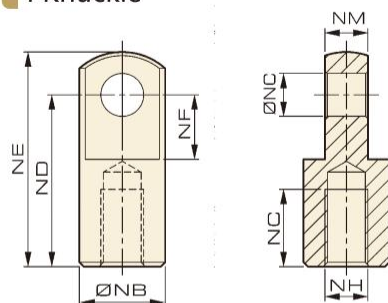


Dimension

Symbol Bore Stroke	D	Q	CA	CB (MAL Series)	CB(MSAL/MTAL Series)			CD	CF	CH	CT	CP	CQ
					0-50	50-100	100-150						
8	11.3	8.1	17.3	76	101	-	-	20	12.5	24	2.5	4.5	13.1
10	11.3	8.1	17.3	76	101	-	-	20	12.5	24	2.5	4.5	13.1
12	13	12.1	23.3	91	116	-	-	25	15	27	3	5.5	18.1
16	13	12.1	23.3	98	123	148	-	25	15	27	3	5.5	18.1
20	16	16.1	30	115	140	165	190	32	20	30	4	6.5	24.1
25	16	16.1	30	126	151	176	201	32	20	30	4	6.5	24.1
32	19.5	20.1	34.6	135	160	185	210	41	24	35	4	9	28.1
40	26	20.1	36.6	138	163	188	213	52	30	40	5	9	30.1

Overall Dimension

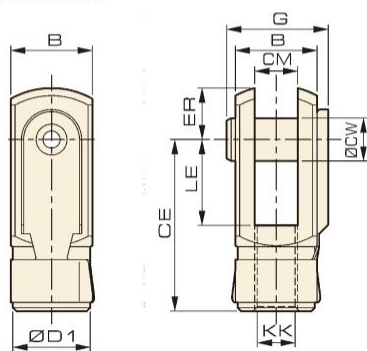
I Knuckle



Dimension

Model	NB	NC	ND	NE	NF	NG	NH	NM	Bore	8	10	12	16	20	25	32	40
F-M04070I	10	4	16	21	7	6	M4×0.7	4	Adapted fitting form	√	√						
F-M06100I	12	5	21	28	8.5	8	M6×1	6			√	√					
F-M08125I	16	8	30	40	11	15	M8×1.25	8					√				
F-M10125I	20	10	40	52	15	18	M10×1.25	10						√	√		
F-M12125I	24	12	48	62	24	18	M12×1.25	12									
F-M14150I	28	14	56	72	28	21	M14×1.5	14									√

CK Knuckle



Model	KK	B	CE	CM	CR	CW	D1	G	LE	
F-M04070CK	M4X0.7	8	16	4	21	4	8	11	8	DSN8, DSN10
F-M06100CK	M6×1	12	24	6	31	6	10	16	12	DSN12, DSN16
F-M08125CK	M8×1.25	16	32	8	42	8	14	20	16	DSN20
F-M10125CK	M10×1.25	20	40	10	52	10	18	25.5	20	DSN25, DSN32
F-M12125CK	M12×1.25	24	48	12	62	12	20	29.5	24	
F-M14150CK	M14×1.5	27	56	14	72	14	24	29.5	28	DSN40
F-M16150CK	M16×1.5	32	64	16	83	16	26	38.5	32	
F-M20150CK	M20×1.5	40	80	20	105	20	34	47	40	

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

MA Series

Stainless Steel Mini Cylinder



Features

1. Improving for adapting wide range applications, using precise polishing of piston rod, more sense of products quality and longer life of front seal.
2. Optima design and improve the production efficiency.
3. Combined with enterprise color planning and new structure design, stainless steel series cylinder integrated as the semicircular groove cramping.
4. Using embedded gasket, increase the pressured area of pistons after collision.



MA16X100

Ordering Code

MA	32	50	10	S	U	E	LB
Series	Bore	Stroke	Adjustable Stroke	Magnet	Back Form	Piston Rod Material	Mountings
MA: Double Acting	12		10: 10mm	S: With magnet	Blank: Standard with eye mounting	Blank: Carbon steel	Blank: Basic mountings
	16		20: 20mm	Blank: Without magnet		E: Stainless steel	LB: Front and back mounting
	20		30: 30mm				
MSA: Single Acting Spring-Return	25		50: 50mm		CM: Standard with round back cover		FA: Front mounting flange
	32		75: 75mm				FB: Back mounting flange
	40		100: 100mm		U: Standard with flat back cover		SDB: Back hinge
MTA: Single Acting Spring-Extend							
MAD: Double-shaft							
MAJ: Double-shaft with adjustable stroke							

*Sensor model JEL-01, Strap type "SKB-Bore", please refer to P173 for the specific ordering code.

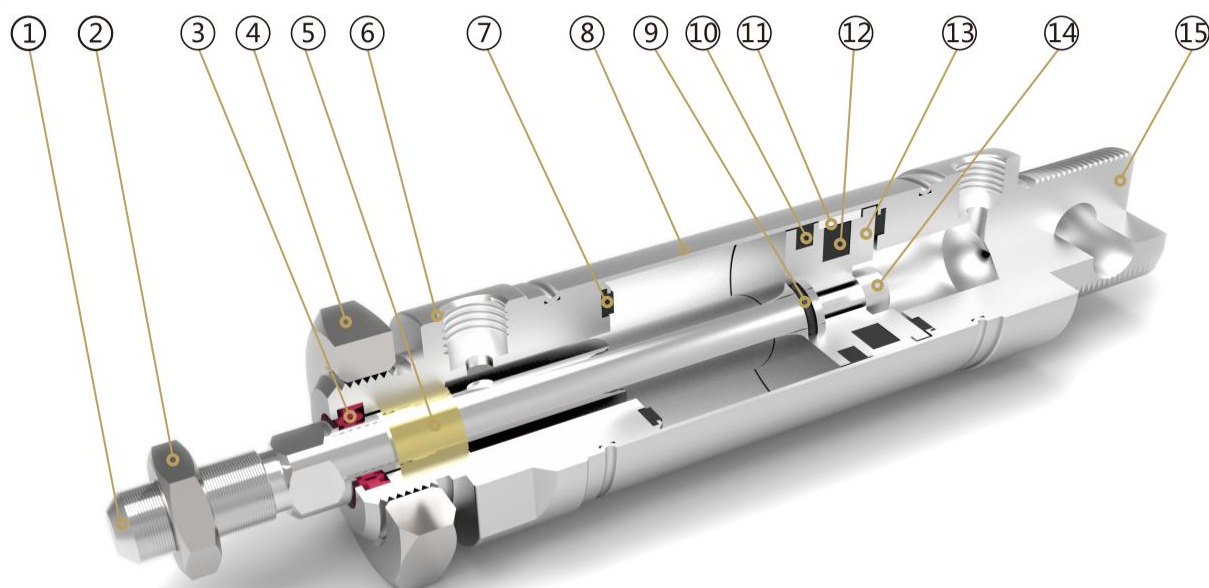
Specification

Bore (mm)	12	16	20	25	32	40
Operation	Double Acting or Single Acting					
Working Medium	Air					
Mountings	Basic LB FA FB SDB					
Operating Pressure Range	0.1 ~ 1.0MPa					
Proof Pressure	1.5 MPa					
Operating Temperature Range	-20 ~ 80°C					
Operating Speed Range	50 ~ 800mm/s					
Cushion	Gasket Cushion					
Port Size	M5×0.8			G1/8"		

Stroke

Bore		Standard Stroke																		Max. Stroke
MA	12	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250		200	
MA/MAC	16/20/25/32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	500
MAD/MAJ	12	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250		250	
MAD/MAJ MACD/MACJ	16/20/25/32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	300
MSA/MTA	12	15	20	25	30	40	50												50	
	16	15	20	25	30	40	50	60	75	80	100								100	
	25/32/40	15	20	25	30	40	50	60	75	80	100	125	150						150	

Internal Structure



Parts

Number	Name	Number	Name
1	Piston rod	9	O ring
2	Hexagon nut	10	Piston seal
3	Shaft seal	11	Anti-friction seal
4	Hexagon nut	12	Magnet
5	DU bearing	13	Piston
6	Front cover	14	Socket head cap screw
7	Anti-collision gasket	15	Back cover
8	Barrel		

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

MA Series

Stainless Steel Mini Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

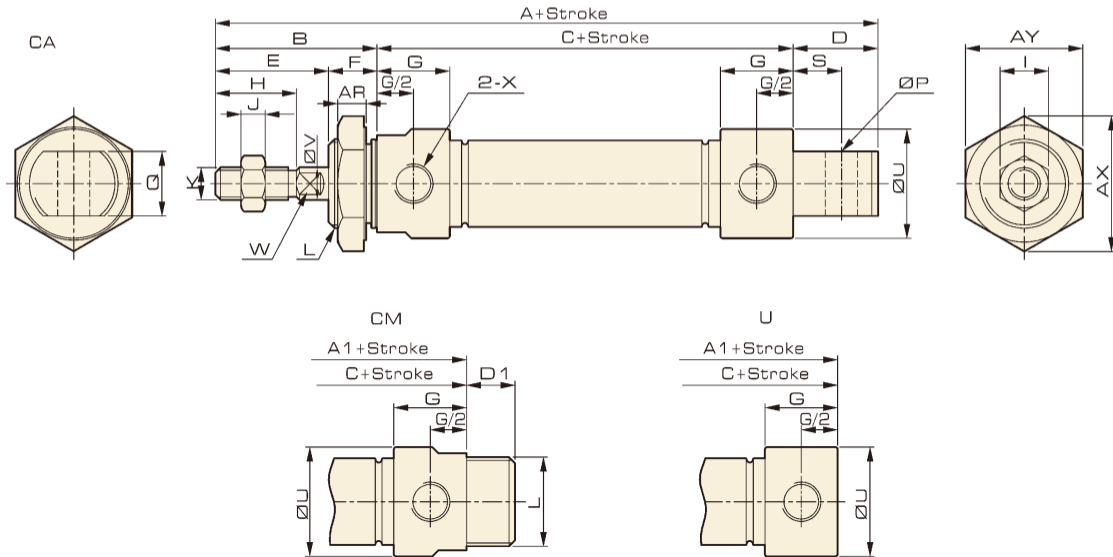
JGP

JSQB

Sensor

Overall Dimension

MA



Cylinder with or without magnet is the same size

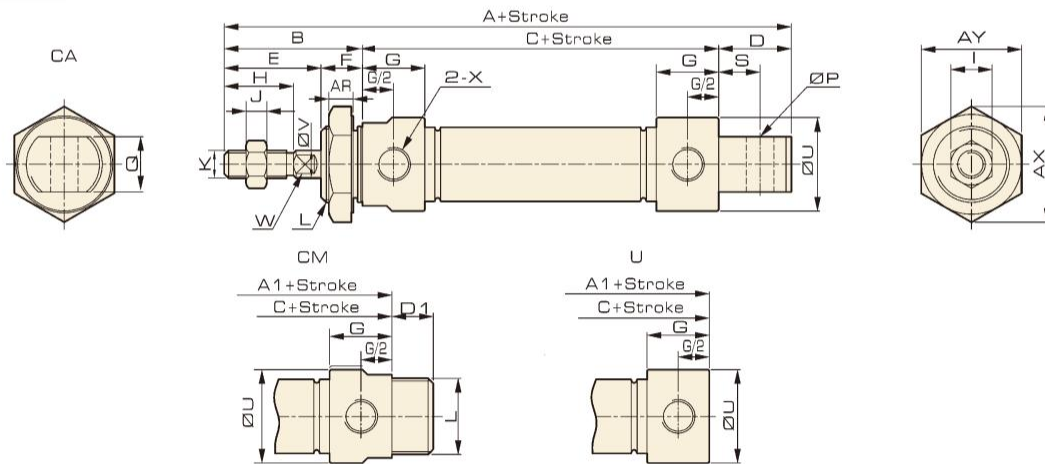
Dimension

Bore / Stroke	A	A1	B	C	D	D1	E	F	G	H	I	J	K
12	113	97	38	59	16	12	22	16	12	16	10	5	M6×1
16	114	98	38	60	16	12	22	16	12	16	10	5	M6×1
20	137	116	40	76	21	12	28	12	18	20	12	6	M8×1.25
25	141	120	44	76	21	14	30	14	16	22	17	6	M10×1.25
32	147	120	44	76	27	14	30	14	16	22	17	6	M10×1.25
40	150	123	46	77	27	14	32	14	16.7	24	19	7	M12×1.25

Bore / Stroke	L	P	Q	S	U	V	W	X	AR	AX	AY
12	M16×1.5	6	12	9.5	21	6	5	M5×0.8	6	27.8	24
16	M16×1.5	6	12	9	21	6	5	M5×0.8	6	27.8	24
20	M22×1.5	8	16	12	27	8	6	G1/8	7	33.5	29
25	M22×1.5	8	16	12	30	10	8	G1/8	7	33.5	29
32	M24×2	10	16	15	35	12	10	G1/8	9	37	32
40	M30×2	12	20	15	42	16	14	G1/8	9	46	40

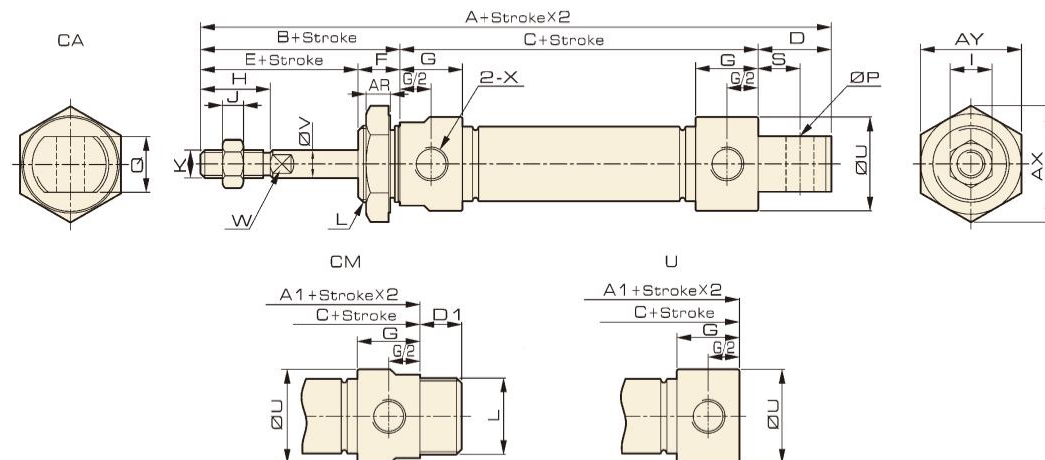
Overall Dimension

MSA



Cylinder with or without magnet is the same size

MTA



Cylinder with or without magnet is the same size

Dimension

Symbol	A			A1			B	C			D	D1	E	F	G
Bore/Stroke	0-50	50-100	100-150	0-50	50-100	100-150		0-50	50-100	100-150					
12	138	-	-	122	-	-	38	84	-	-	16	12	22	16	12
16	139	164	-	123	148	-	38	85	110	-	16	12	22	16	12
20	162	187	212	141	166	191	40	101	126	151	21	12	28	12	18
25	166	191	216	145	170	195	44	101	126	151	21	14	30	14	16
32	172	197	222	145	170	195	44	101	126	151	27	14	30	14	16
40	175	200	225	148	173	198	46	102	127	152	27	14	32	14	16.7

Bore/Symbol	H	I	J	K	L	P	Q	S	U	V	W	X	AR	AX	AY
12	16	10	5	M6×1	M16×1.5	6	12	9.5	21	6	5	M5×0.8	6	27.8	24
16	16	10	5	M6×1	M16×1.5	6	12	9	21	6	5	M5×0.8	6	27.8	24
20	20	12	6	M8×1.25	M22×1.5	8	16	12	27	8	6	G1/8	7	33.5	29
25	22	17	6	M10×1.25	M22×1.5	8	16	12	30	10	8	G1/8	7	33.5	29
32	22	17	6	M10×1.25	M24×2	10	16	15	35	12	10	G1/8	9	37	32
40	24	19	7	M12×1.25	M30×2	12	20	15	42	16	14	G1/8	9	46	40

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

MA Series

Stainless Steel Mini Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

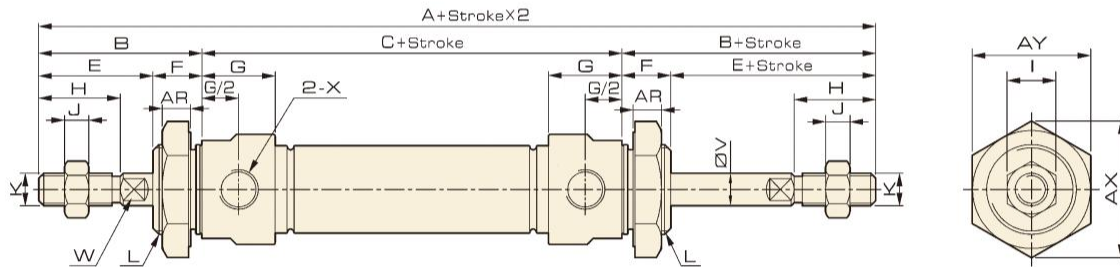
JGP

JSQB

Sensor

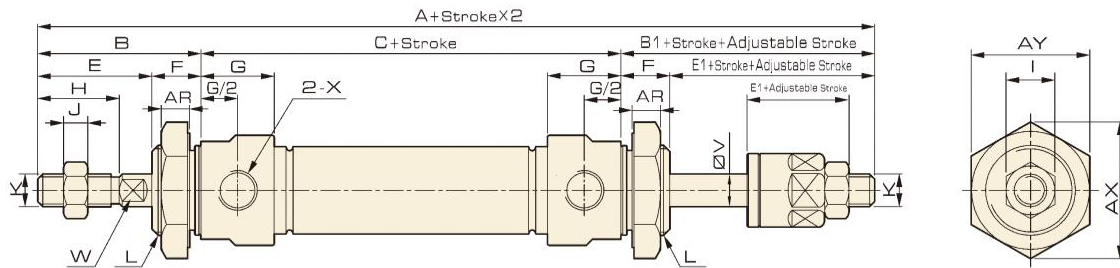
Overall Dimension

MAD



Cylinder with or without magnet is the same size

MAJ



Cylinder with or without magnet is the same size

Dimension

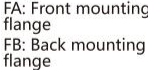
Bore Symbol	A	A1	B	B1	C	E	E1	F	G	H	I	J	K	L	U	V	W	X	AR	AX	AY	Y
12	135	135	38	37	59	22	21	16	12	16	10	5	M6×1	M16×1.5	21	6	5	M5×0.8	6	27.8	24	6
16	136	135	38	37	60	22	21	16	12	16	10	5	M6×1	M16×1.5	21	6	5	M5×0.8	6	27.8	24	6
20	156	153	40	37	76	28	25	12	18	20	12	6	M8×1.25	M22×1.5	27	8	6	G1/8	7	33.5	29	8.5
25	164	161	44	41	76	30	27	14	16	22	17	6	M10×1.25	M22×1.5	30	10	8	G1/8	7	33.5	29	9.5
32	164	161	44	41	76	30	27	14	16	22	17	6	M10×1.25	M24×2	35	12	10	G1/8	9	37	32	11.5
40	169	166	46	42	77	32	28	14	16.7	24	19	7	M12×1.25	M30×2	42	16	14	G1/8	9	46	40	14

Features

1. Improving for adapting wide range applications, using precise polishing of piston rod, more sense of products quality and longer life of front seal.
2. Optima design and improve the production efficiency.
3. Combined with enterprise color planning and new structure design stainless steel series cylinder integrated as the semicircular groove cramping.
4. Change processing technology of cylinder cushion structure to ensure buffering function in stabilization.
5. Improved the range of buffering fine-tune, enable customers to more easily adjust the buffer throttling speed.



 Ordering Code

MAC	32	x	50	-	10	-	S	-	U	-	E	-	LB
Series	Bore		Stroke		Adjustable Stroke		Magnet		Back Form		Piston Rod Material		Mountings
MAC: Double Acting 	16 20 25				10: 10mm 20: 20mm 30: 30mm		S: With magnet Blank: Without magnet		Blank: Standard with eye mounting  CM: Standard with round back cover 		Blank: Carbon steel E: Stainless steel		Blank: Basic mountings LB: Front and back mounting  FA: Front mounting flange FB: Back mounting flange 
MACD: Double-shaft 	32 40				50: 50mm 75: 75mm 100: 100mm				U: Standard with flat back cover 				SDB: Back hinge 
MACJ: Double-shaft with adjustable stroke 													

Sensor model JEL-01. Strap type "SKB-Bore". please refer to P173 for the specific ordering code.

* Sensor model JEL-01, Strap type "SKB-Bore" , please refer to P173 for the specific ordering code.

Specification

Bore (mm)	16	20	25	32	40
Operation	Double Acting				
Working Medium	Air				
Mountings	Basic LB FA FB SDB				
Operating Pressure Range	0.1 ~ 1.0MPa				
Proof Pressure	1.5 MPa				
Operating Temperature Range	-20 ~ 80℃				
Operating Speed Range	50 ~ 800mm/s				
Cushion	Adjustable Air Cushion				
Port Size	M5X0.8	G1/8"			

Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

MAC Series

Stainless Steel Mini Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MAL A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

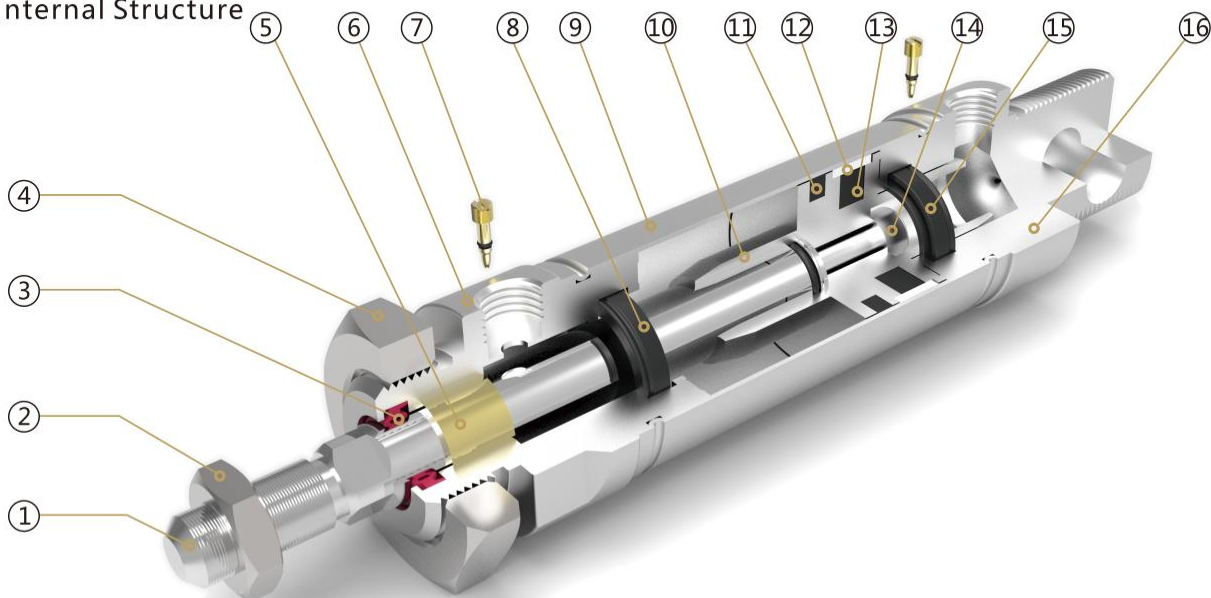
JSQB

Sensor

Stroke

Bore		Standard Stroke																		Max. Stroke
MAC	16/20/25/32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	500
MACD/MACJ	16/20/25/32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	300

Internal Structure

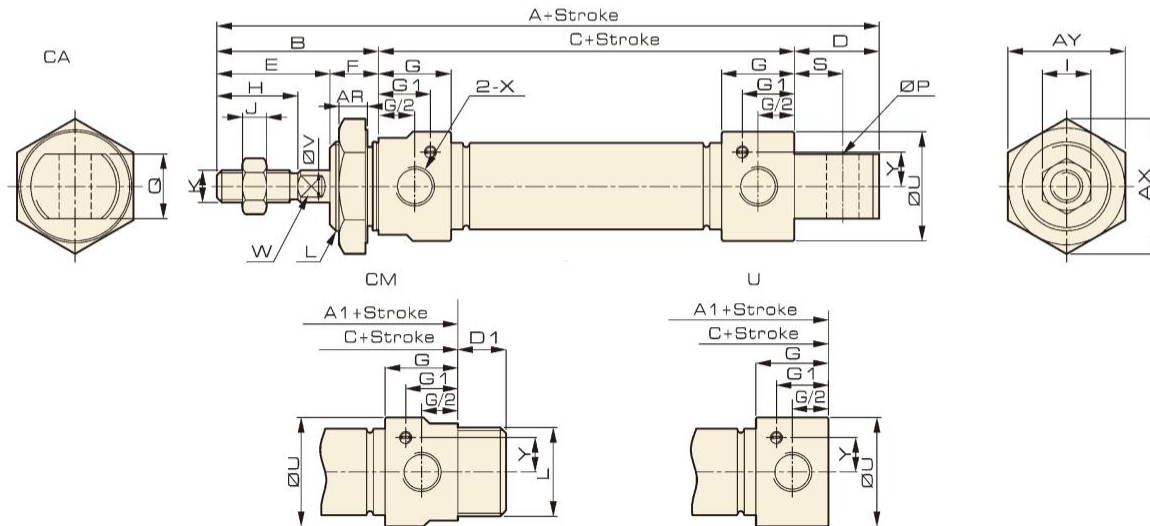


Parts

Number	Name	Number	Name
1	Piston rod	9	Barrel
2	Hexagon nut	10	Piston
3	Shaft seal	11	Piston seal
4	Hexagon nut	12	Anti-friction seal
5	DU bearing	13	Magnet
6	Front cover	14	Socket head cap screw
7	Anti-collision gasket	15	Cushion
8	Cushion	16	Back cover

Overall Dimension

MAC



Cylinder with or without magnet is the same size

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

Dimension

Bore Symbol	A	A1	B	C	D	D1	E	F	G	G1	H	I	J	K
16	114	98	38	60	16	12	22	16	12	8	16	10	5	M6×1
20	137	116	40	76	21	12	28	12	18	13	20	12	6	M8×1.25
25	141	120	44	76	21	14	30	14	16	11	22	17	6	M10×1.25
32	147	120	44	76	27	14	30	14	16	11.5	22	17	6	M10×1.25
40	150	123	46	77	27	14	32	14	16.7	12	24	19	7	M12×1.25

Bore Symbol	L	P	Q	S	U	V	W	X	AR	AX	AY	Y
16	M16×1.5	6	12	9	21	6	5	M5×0.8	6	27.8	24	6
20	M22×1.5	8	16	12	27	8	6	G1/8	7	33.5	29	8.5
25	M22×1.5	8	16	12	30	10	8	G1/8	7	33.5	29	9.5
32	M24×2	10	16	15	35	12	10	G1/8	9	37	32	11.5
40	M30×2	12	20	15	42	16	14	G1/8	9	46	40	14

MAC Series

Stainless Steel Mini Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

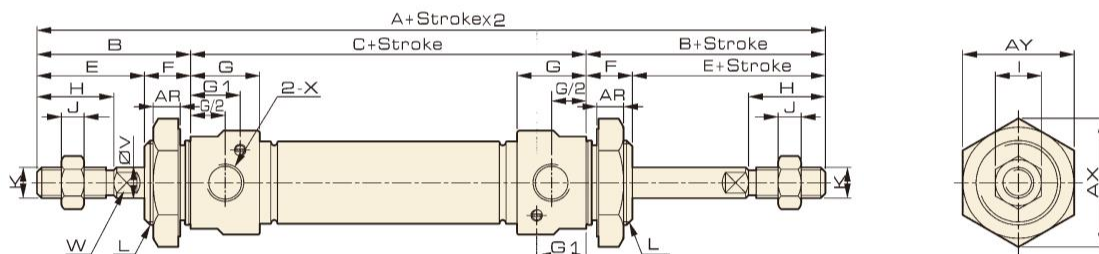
JGP

JSQB

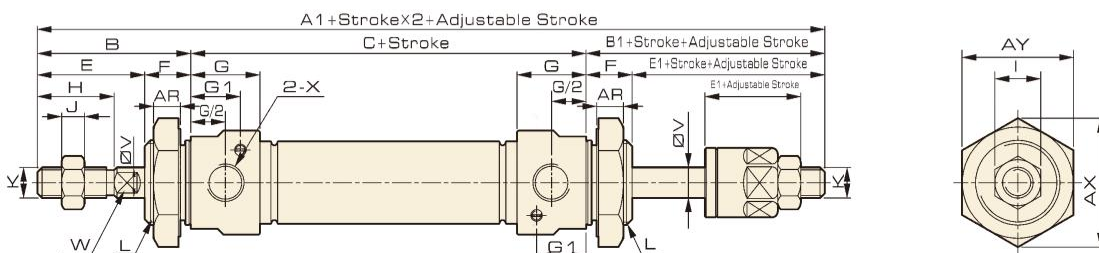
Sensor

Overall Dimension

MACD



MACJ



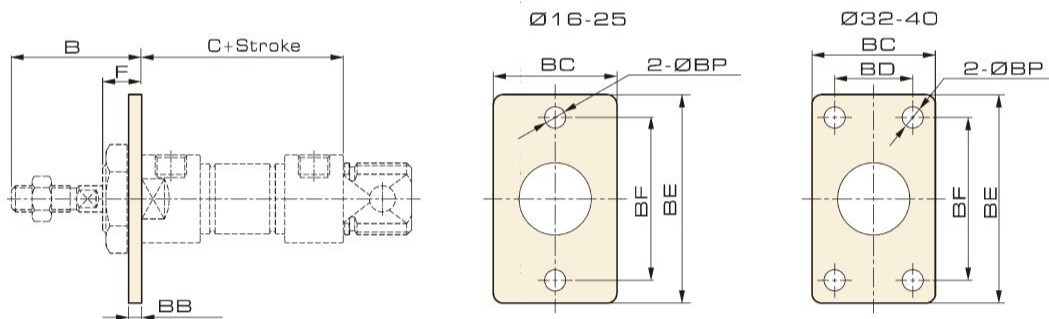
Cylinder with or without magnet is the same size

Dimension

Bore Symbol	A	A1	B	B1	C	E	E1	F	G	G1	H	I	J	K	L	U	V	W	X	AR	AX	AY	Y
16	136	135	38	37	60	22	21	16	12	8	16	10	5	M6×1	M16×1.5	21	6	5	M5×0.8	6	27.8	24	6
20	156	153	40	37	76	28	25	12	18	13	20	12	6	M8×1.25	M22×1.5	27	8	6	G1/8	7	33.5	29	8.5
25	164	161	44	41	76	30	27	14	16	11	22	17	6	M10×1.25	M22×1.5	30	10	8	G1/8	7	33.5	29	9.5
32	164	161	44	41	76	30	27	14	16	11.5	22	17	6	M10×1.25	M24×2	35	12	10	G1/8	9	37	32	11.5
40	169	166	46	42	77	32	28	14	16.7	12	24	19	7	M12×1.25	M30×2	42	16	14	G1/8	9	46	40	14

Overall Dimension

FA

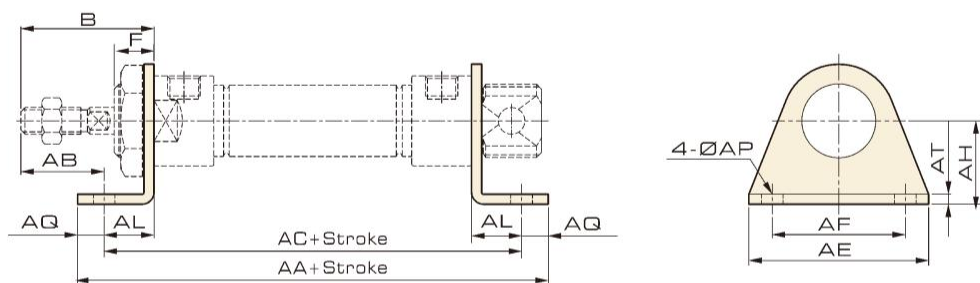


Dimension

Symbol Bore/ Stroke	B	C (MA Series)	C (MSA/MTA Series)			BB	BC	BD	BE	BF	BP	F
			0-50	50-100	100-150							
16	38	60	85	110	-	3	26	-	52	40	5.5	16
20	40	76	101	126	151	4	38	-	64	50	6.5	12
25	44	76	101	126	151	4	38	-	64	50	6.5	14
32	44	76	101	126	151	4	47	33	72	58	6.5	14
40	46	77	102	127	152	4	50	36	84	70	6.5	14

Overall Dimension

LB



Dimension

Symbol Bore/ Stroke	B	AA (MA Series)	AA (MSA/MTA Series)			AB	AC (MAL Series)	AC (MSAL/MTAL Series)			AE	AF	AH	AL	AP	AQ	AT	F
			0-50	50-100	100-150			0-50	50-100	100-150								
16	38	98	123	148	-	25	86	111	136	-	44	32	20	13	5.5	6	3	16
20	40	122	147	172	197	25	106	131	156	181	54	40	25	15	6.5	8	3	12
25	44	122	147	172	197	29	106	131	156	181	54	40	25	15	6.5	8	3	14
32	44	142	167	192	217	19	126	151	176	201	59	45	32	25	6.5	8	4	14
40	46	143	168	193	218	21	127	152	177	202	64	50	36	25	6.5	8	4	14

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

MA / MAC

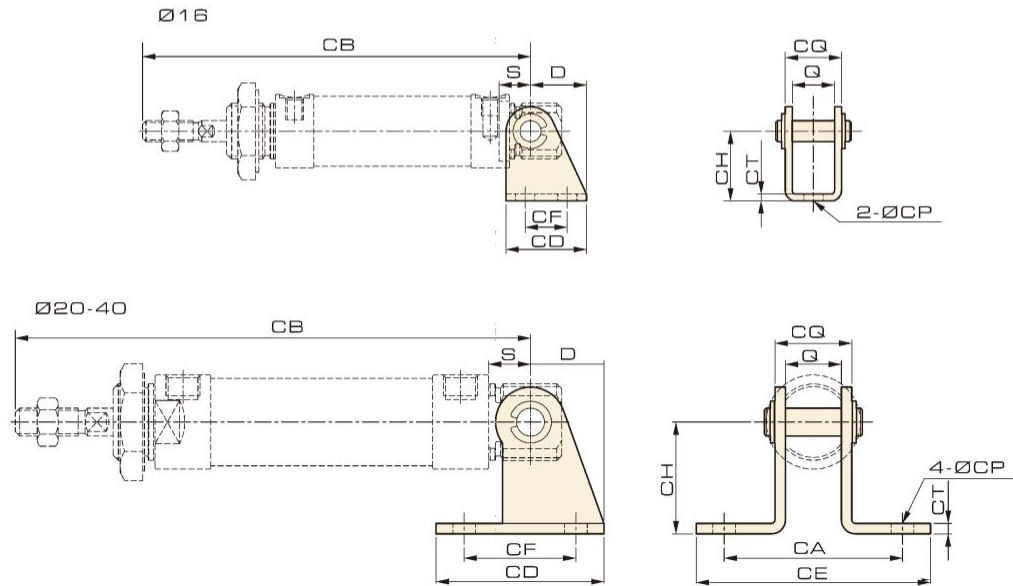
Mini Cylinder Accessory



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHY2
JHF2
JHZ2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Overall Dimension

SDB

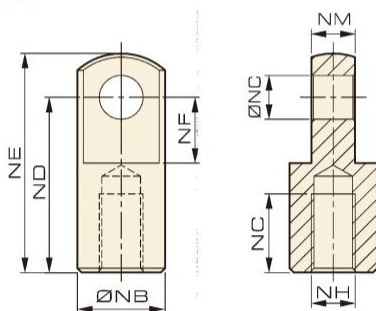


Dimension

Symbol Bore/ Stroke	D	S	Q	CA	CB Series)	CB (MSA/MTA Series)			CD	CE	CF	CH	CT	CP	CQ
						0-50	50-100	100-150							
16	16	9	12	-	107	132	157	-	23	-	12	20	2	5.5	16
20	21	12	16	51	128	153	178	203	48	67	32	32	3	6.5	22
25	21	12	16	51	132	157	182	207	48	67	32	32	3	6.5	22
32	27	15	16	51	135	160	185	210	52	67	36	36	4	6.5	24
40	27	15	20	55	138	163	188	213	56	71	40	40	4	6.5	28

Overall Dimension

I Knuckle



Dimension

Model	NB	NC	ND	NE	NF	NG	NH	NM	Bore	16	20	25	32	40
F-M04070I	10	4	16	21	7	6	M4×0.7	4	Adapted fitting form	√				
F-M06100I	12	5	21	28	8.5	8	M6×1	6			√			
F-M08125I	16	8	30	40	11	15	M8×1.25	8				√	√	
F-M10125I	20	10	40	50	15	18	M10×1.25	10						√
F-M12125I	24	12	48	62	24	18	M12×1.25	12						√

Features

1. Improving for adapting wide range applications, using precise polishing of piston rod, more sense of products quality and longer life of front seal.
2. Optima design and improve the production efficiency.
3. Combined with enterprise color planning and new structure design.
4. Using embedded gasket, increase the pressured area of pistons after collision.



MAL16X100



MAL25X100



MAL32X100

Ordering Code

MAL	32	x	50	-	10	-	S	-	U	-	E	-	LB
Series	Bore		Stroke		Adjustable Stroke		Magnet		Back Form		Piston Rod Material		Mountings
MAL: Double Acting	16				10: 10mm		S: With magnet		Blank: Standard with eye mounting		Blank: Carbon steel		Blank: Basic mountings
	20				20: 20mm		Blank: Without magnet				E: Stainless steel		LB: Front and back mounting
MSAL: Single Acting Spring-Return	25				30: 30mm								
	32				50: 50mm								
	40				75: 75mm								
MTAL: Single Acting Spring-Extend					100: 100mm								
MALD: Double-shaft													
with adjustable stroke													

*Sensor model JEL-01, Strap type "SKL-Bore", please refer to P173 for the specific ordering code.

Specification

Bore (mm)	16	20	25	32	40
Operation	Double Acting or Single Acting				
Working Medium	Air				
Mountings	Basic LB FA FB SDB				
Operating Pressure Range	0.1 ~ 1.0MPa				
Proof Pressure	1.5 MPa				
Operating Temperature Range	-20 ~ 80°C				
Operating Speed Range	50 ~ 800mm/s				
Cushion	Gasket Cushion				
Port Size	M5×0.8	G1/8"			G1/4"

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

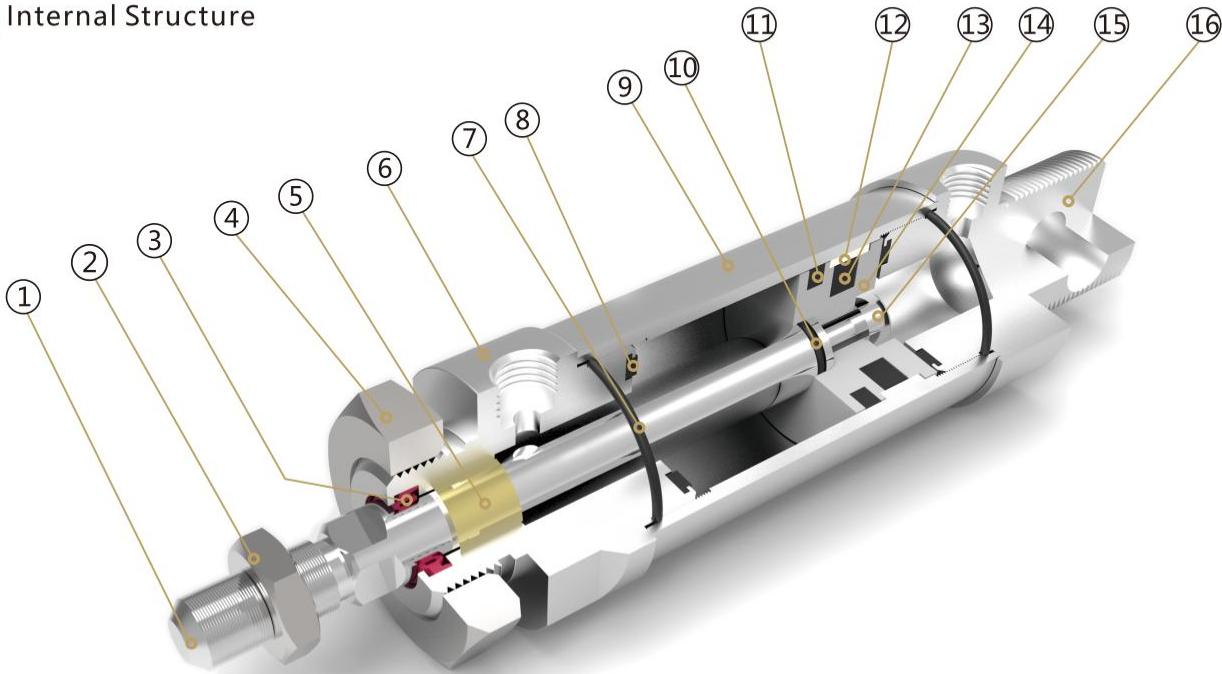
MAL Series
Aluminum Alloy Mini Cylinder

- Cylinder
- Calculation
- SI
- SI A.
- SIB
- SQ
- DNT
- SC/SU
- SCT
- SC A.
- DN
- DSN
- DN/DSN A.
- MA
- MAC
- MA/MAC A.
- MAL
- MALC
- MAL/MALC A.
- SDA
- CQ2
- TCQ2
- ADN
- TADN
- PPRM
- JHL2
- JHF2
- JHZ2
- JHY2
- JHC2
- JXH
- JXQ
- JXS
- TN
- JGP
- JSQB
- Sensor

Stroke

Bore		Standard Stroke																			Max. Stroke
MAL/MALC	16/20/25 32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	500	
MALD/MALJ MALCD/MALCJ	16/20/25 32/40	15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300	300	
MSAL/MTAL	16	15	20	25	30	40	50	60	75	80	100									100	
	20/25 32/40	15	20	25	30	40	50	60	75	80	100	125	150							150	

Internal Structure

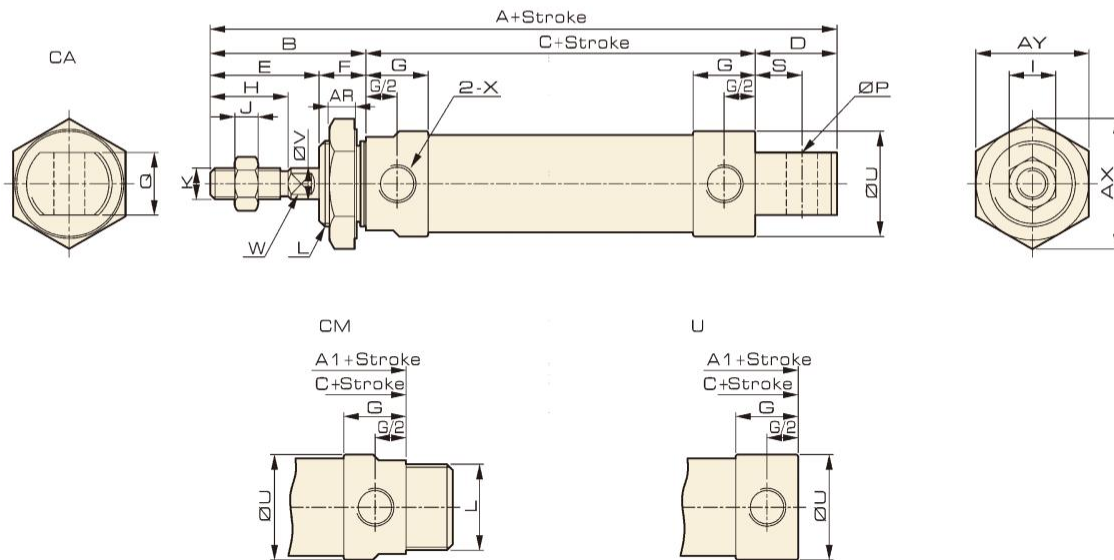


Parts

Number	Name	Number	Name
1	Piston rod	9	Barrel
2	Hexagon nut	10	O ring
3	Shaft seal	11	Piston seal
4	Hexagon nut	12	Anti-friction seal
5	DU bearing	13	Magnet
6	Front cover	14	Piston
7	O ring	15	Socket head cap screw
8	Anti-collision gasket	16	Back cover

Overall Dimension

MAL



Cylinder with or without magnet is the same size

Dimension

Bore Symbol	A	A1	B	C	D	D1	E	F	G	G1	H	I	J	K
16	105	90	38	52	15	12	24	14	11	6.5	16	10	5	M6×1
20	131	110	40	70	21	12	28	12	16	12	20	12	6	M8×1.25
25	135	114	44	70	21	14	30	14	16	11	22	17	6	M10×1.25
32	141	114	44	70	27	14	30	14	16	11.5	22	17	6	M10×1.25
40	165	138	46	92	27	14	32	14	22	15	24	19	7	M12×1.25

Bore Symbol	L	P	Q	S	U	V	W	X	AR	AX	AY	Y
16	M16×1.5	6	12	6	21	6	5	M5×0.8	6	27.8	24	6
20	M22×1.5	8	16	12	27	8	6	G1/8	7	33.5	29	9
25	M22×1.5	8	16	12	32	10	8	G1/8	7	33.5	29	9
32	M24×2	10	16	15	39.5	12	10	G1/8	9	37	32	11.5
40	M30×2	12	20	15	47	16	14	G1/4	9	46	40	14

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

MAL Series

Aluminum Alloy Mini Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

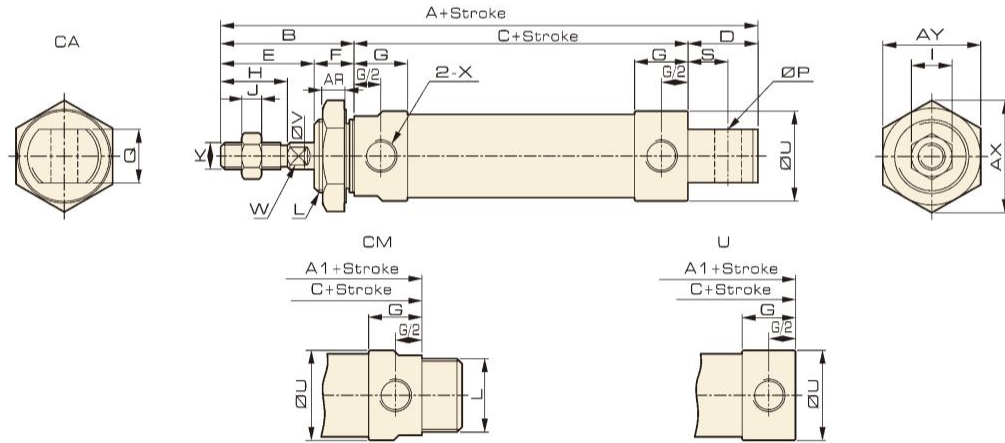
JGP

JSQB

Sensor

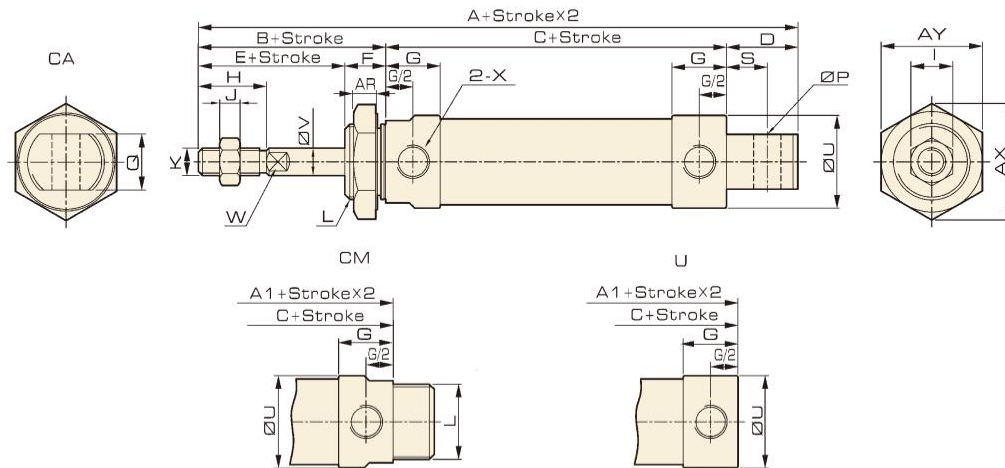
Overall Dimension

MSAL



Cylinder with or without magnet is the same size

MTAL



Cylinder with or without magnet is the same size

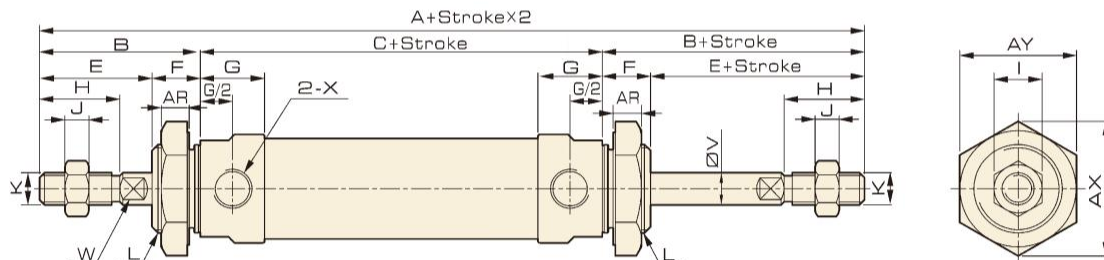
Dimension

Symbol	A			A1			B	C			D	D1	E	F	G
Bore/Stroke	0-50	50-100	100-150	0-50	50-100	100-150		0-50	50-100	100-150					
16	130	155	-	115	140	-	38	77	102	-	15	12	24	14	11
20	156	181	206	135	160	185	40	95	120	145	21	12	28	12	16
25	160	185	210	139	164	189	44	95	120	145	21	14	30	14	16
32	166	191	216	139	164	189	44	95	120	145	27	14	30	14	16
40	190	215	240	163	188	213	46	117	142	167	27	14	32	14	22

Bore/Symbol	H	I	J	K	L	P	Q	S	U	V	W	X	AR	AX	AY
16	16	10	5	M6×1	M16×1.5	6	12	6	21	6	5	M5×0.8	6	27.8	24
20	20	12	6	M8×1.25	M22×1.5	8	16	12	27	8	6	G1/8	7	33.5	29
25	22	17	6	M10×1.25	M22×1.5	8	16	12	32	10	8	G1/8	7	33.5	29
32	22	17	6	M10×1.25	M24×2	10	16	15	39.5	12	10	G1/8	9	37	32
40	24	19	7	M12×1.25	M30×2	12	20	15	47	16	14	G1/4	9	46	40

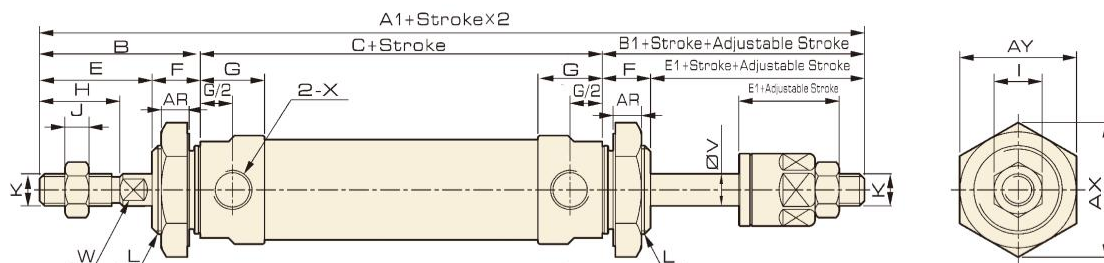
Overall Dimension

MALD



Cylinder with or without magnet is the same size

MALJ



Cylinder with or without magnet is the same size

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

Dimension

Bore Symbol	A	A1	B	B1	C	E	E1	F	G	G1	H	I	J	K	L	U	V	W	X	AR	AX	AY	Y
16	128	125	38	35	52	24	21	14	11	6.5	16	10	5	M6×1	M16×1.5	21	6	5	M5×0.8	6	27.8	24	6
20	150	147	40	37	70	28	25	12	16	12	20	12	6	M8×1.25	M22×1.5	27	8	6	G1/8	7	33.5	29	9
25	158	155	44	41	70	30	27	14	16	11	22	17	6	M10×1.25	M22×1.5	32	10	8	G1/8	7	33.5	29	9
32	158	155	44	41	70	30	27	14	16	11.5	22	17	6	M10×1.25	M24×2	39.5	12	10	G1/8	9	37	32	11.5
40	184	180	46	42	92	32	28	14	22	15	24	19	7	M12×1.25	M30×2	47	16	14	G1/4	9	46	40	14

MALC Series

Aluminum Alloy Mini Cylinder



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Features

1. Improving for adapting wide range applications, using precise polishing of piston rod, more sense of products quality and longer life of front seal.
2. Optima design and improve the production efficiency.
3. Combined with enterprise color planning and new structure design.
4. Change processing technology of cylinder cushion structure to ensure buffering function in stabilization.
5. Improved the range of buffering fine-tune, enable customers to more easily adjust the buffer throttling speed.



MALC16X100



MALC25X100



MALC32X100

Ordering Code

MALC	32	x	50	-	10	-	S	-	U	-	E	-	LB
Series	Bore		Stroke		Adjustable Stroke		Magnet		Back Form		Piston Rod Material		Mountings
MALC: Double Acting	16				10: 10mm		S: With magnet		Blank: Standard with eye mounting		Blank: Carbon steel		Blank: Basic mountings
	20				20: 20mm		Blank: Without magnet				E: Stainless steel		LB: Front and back mounting
	25				30: 30mm								
MALCD: Double-shaft	32				50: 50mm				CM: Standard with round back cover				FA: Front mounting flange
	40				75: 75mm								FB: Back mounting flange
					100: 100mm				U: Standard with flat back cover				SDB: Back hinge
MALCJ: Double-shaft with adjustable stroke													

* Sensor model JEL-01, Strap type "SKL-Bore", please refer to P173 for the specific ordering code.

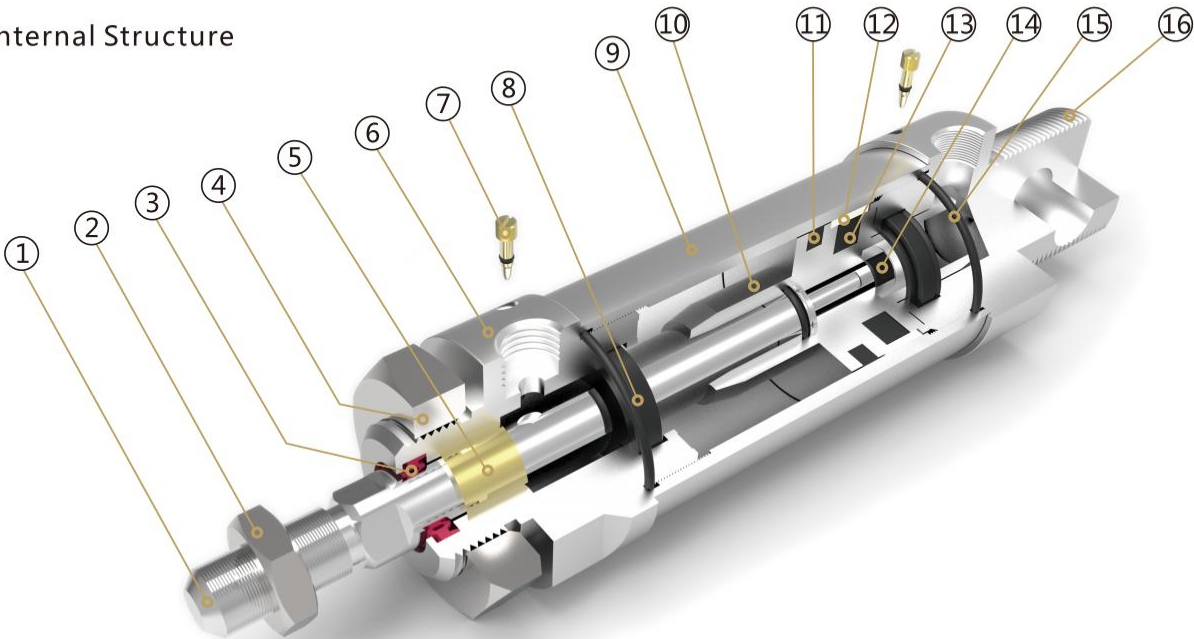
Specification

Bore (mm)	16	20	25	32	40
Operation	Double Acting				
Working Medium	Air				
Mountings	Basic LB FA FB SDB				
Operating Pressure Range	0.1 ~ 1.0MPa				
Proof Pressure	1.5 MPa				
Operating Temperature Range	-20 ~ 80°C				
Operating Speed Range	50 ~ 800mm/s				
Cushion	Adjustable Air Cushion				
Port Size	M5×0.8	G1/8"			G1/4"

Stroke

Bore		Standard Stroke																			Max. Stroke
MALC	16/20/25 32/40																				500
		15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300		
MALCD/MALCJ	16/20/25 32/40																				300
		15	20	25	30	40	50	60	75	80	100	125	150	160	175	200	250	275	300		

Internal Structure



Parts

Number	Name	Number	Name
1	Piston rod	9	Barrel
2	Hexagon nut	10	Piston
3	Shaft seal	11	Piston seal
4	Hexagon nut	12	Anti-friction seal
5	DU bearing	13	Magnet
6	Front cover	14	Screw
7	Anti-collision gasket	15	O ring
8	Cushion	16	Back cover

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

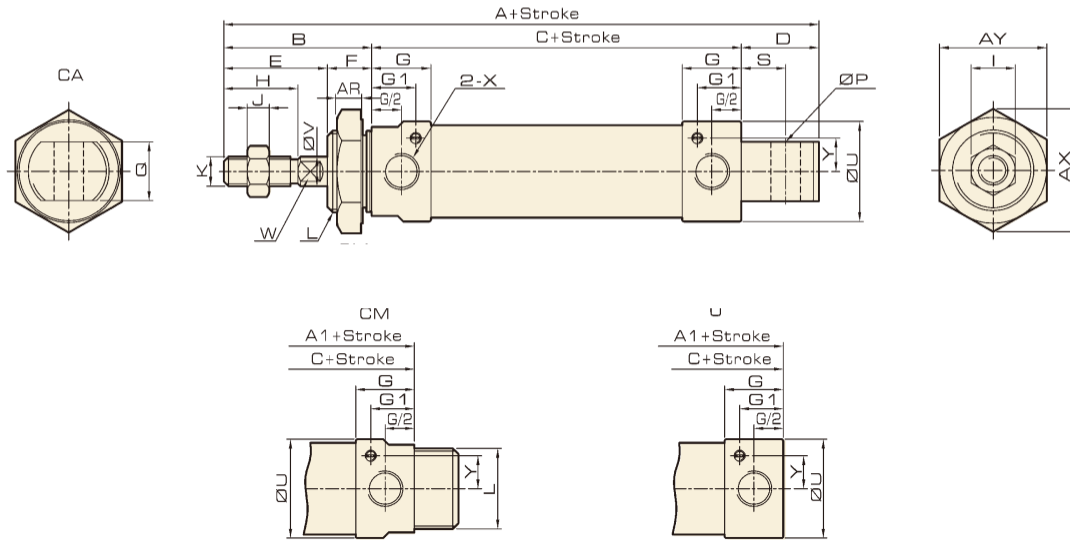
MALC Series

Aluminum Alloy Mini Cylinder



Overall Dimension

MALC



Cylinder with or without magnet is the same size

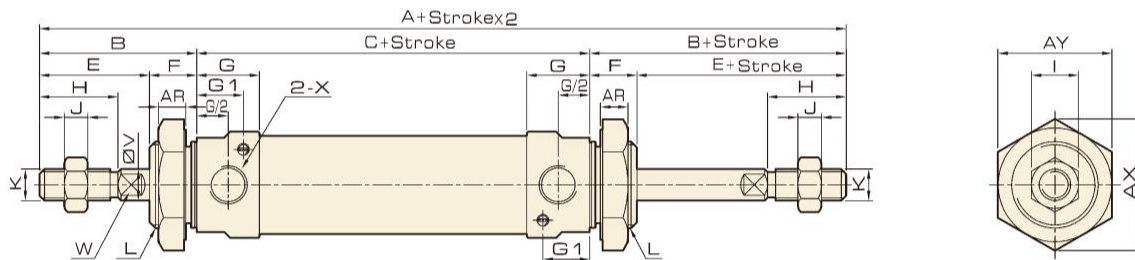
Dimension

Bore / Stroke	A	A1	B	C	D	D1	E	F	G	G1	H	I	J	K
16	105	90	38	52	15	12	24	14	11	6.5	16	10	5	M6×1
20	131	110	40	70	21	12	28	12	16	12	20	12	6	M8×1.25
25	135	114	44	70	21	14	30	14	16	11	22	17	6	M10×1.25
32	141	114	44	70	27	14	30	14	16	11.5	22	17	6	M10×1.25
40	165	138	46	92	27	14	32	14	22	15	24	19	7	M12×1.25

Bore / Stroke	L	P	Q	S	U	V	W	X	AR	AX	AY	Y
16	M16×1.5	6	12	6	21	6	5	M5×0.8	6	27.8	24	6
20	M22×1.5	8	16	12	27	8	6	G1/8	7	33.5	29	9
25	M22×1.5	8	16	12	32	10	8	G1/8	7	33.5	29	9
32	M24×2	10	16	15	39.5	12	10	G1/8	9	37	32	11.5
40	M30×2	12	20	15	47	16	14	G1/4	9	46	40	14

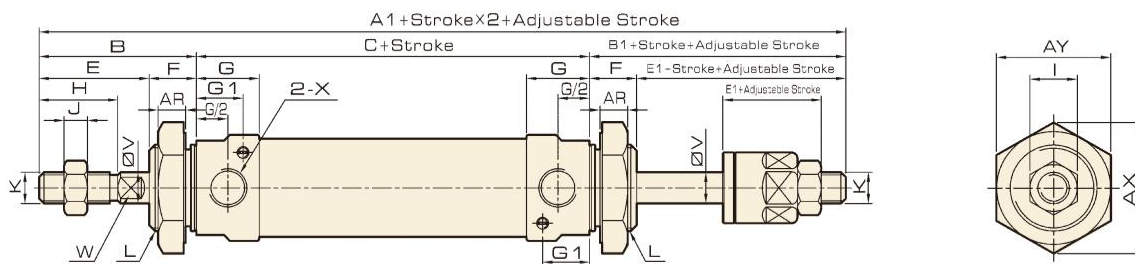
Overall Dimension

MALCD



Cylinder with or without magnet is the same size

MALCJ



Cylinder with or without magnet is the same size

Dimension

Bore Symbol	A	A1	B	B1	C	E	E1	F	G	G1	H	I	J	K	L	U	V	W	X	AR	AX	AY	Y
16	128	125	38	35	52	24	21	14	11	6.5	16	10	5	M6×1	M16×1.5	21	6	5	M5×0.8	6	27.8	24	6
20	150	147	40	37	70	28	25	12	16	12	20	12	6	M8×1.25	M22×1.5	27	8	6	G1/8	7	33.5	29	9
25	158	155	44	41	70	30	27	14	16	11	22	17	6	M10×1.25	M22×1.5	32	10	8	G1/8	7	33.5	29	9
32	158	155	44	41	70	30	27	14	16	11.5	22	17	6	M10×1.25	M24×2	39.5	12	10	G1/8	9	37	32	11.5
40	184	180	46	42	92	32	28	14	22	15	24	19	7	M12×1.25	M30×2	47	16	14	G1/4	9	46	40	14

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

MAL / MALC

Mini Cylinder Accessory



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

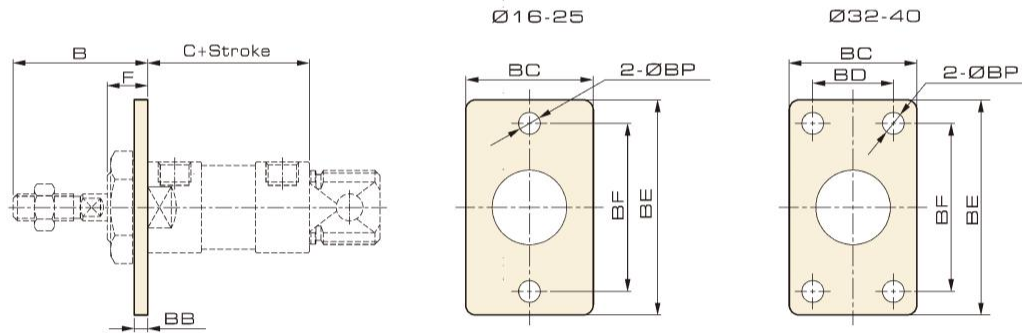
JGP

JSQB

Sensor

Overall Dimension

FA

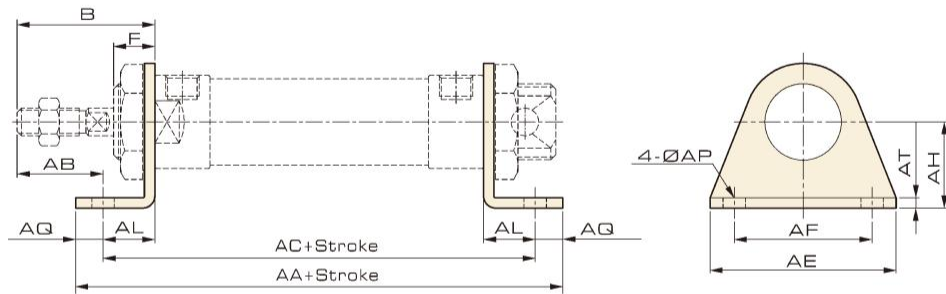


Dimension

Symbol	B	C	C (MSAL/MTAL Series)			BB	BC	BD	BE	BF	BP	F
Bore/Stroke	(MAL Series)	(MAL Series)	0-Ø50	50-100	100-150							
16	38	52	77	102	-	3	26	-	52	40	5.5	14
20	40	70	95	120	145	4	38	-	64	50	6.5	12
25	44	70	95	120	145	4	38	-	64	50	6.5	14
32	44	70	95	120	145	4	47	33	72	58	6.5	14
40	46	92	117	142	167	4	50	36	84	70	6.5	14

Overall Dimension

LB

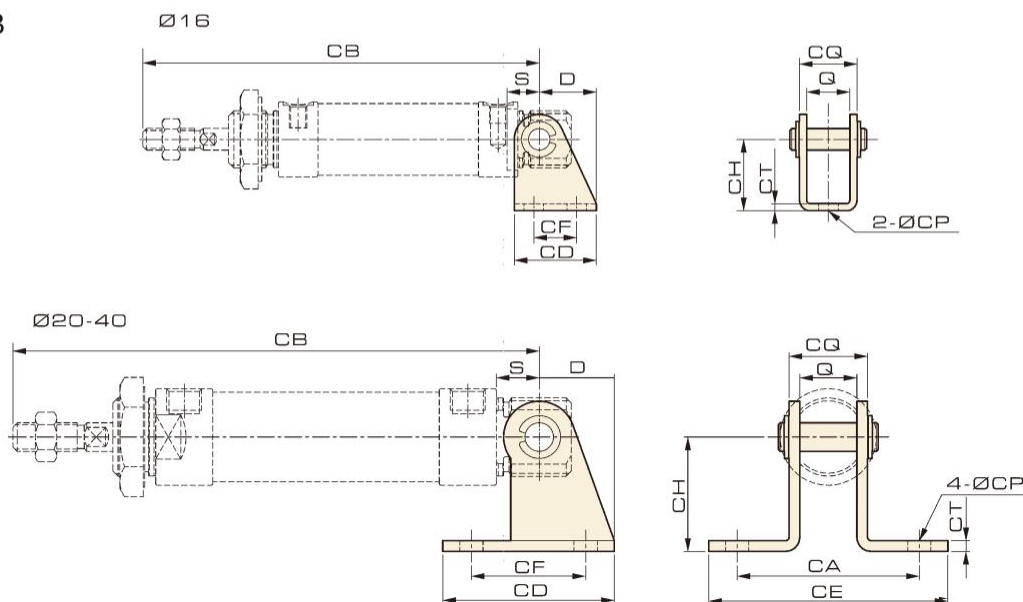


Dimension

Symbol	B	AA	AA (MSAL/MTAL Series)			AB	AC	AC (MSAL/MTAL Series)			AE	AF	AH	AL	AP	AQ	AT	F
Bore/Stroke	(MAL Series)	(MAL Series)	0-50	50-100	100-150		(MAL Series)	0-50	50-100	100-150								
16	38	90	115	140	-	25	78	103	128	-	44	32	20	13	5.5	6	3	14
20	40	116	141	166	191	25	100	125	150	175	54	40	25	15	6.5	8	3	12
25	44	116	141	166	191	29	100	125	150	175	54	40	25	15	6.5	8	3	14
32	44	136	161	186	211	19	120	145	170	195	59	45	32	25	6.5	8	4	14
40	46	158	183	208	233	21	142	167	192	217	64	50	36	25	6.5	8	4	14

Overall Dimension

SDB

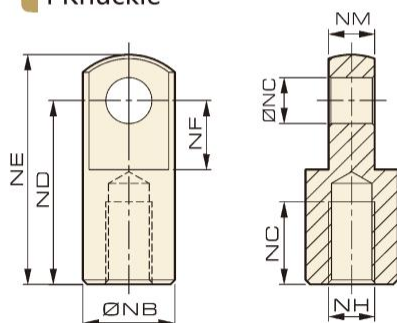


Dimension

Symbol Bore/ Stroke	D	S	Q	CA	CB (MAL Series)	CB (MSAL/MTAL Series)			CD	CE	CF	CH	CT	CP	CQ
						0-50	50-100	100-150							
16	16	9	12	-	96	121	146	-	23	-	12	20	2	5.5	16
20	21	12	16	51	122	147	172	197	48	67	32	32	3	6.5	22
25	21	12	16	51	126	151	176	201	48	67	32	32	3	6.5	22
32	27	15	16	51	129	154	179	204	52	67	36	36	4	6.5	24
40	27	15	20	55	153	178	203	228	56	71	40	40	4	6.5	28

Overall Dimension

I Knuckle



Dimension

Model	NB	NC	ND	NE	NF	NG	NH	NM	Bore	16	20	25	32	40
F-M04070I	10	4	16	21	7	6	M4×0.7	4	Adapted fitting form	√				
F-M06100I	12	5	21	28	8.5	8	M6×1	6			√			
F-M08125I	16	8	30	40	11	15	M8×1.25	8				√	√	
F-M10125I	20	10	40	52	15	18	M10×1.25	10						√
F-M12125I	24	12	48	62	24	18	M12×1.25	12						√

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

SDA Series

Compact Cylinder



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Features

1. Improving for adapting wide range applications, using precise polishing of piston rod, more sense of products quality and longer life of front seal.
2. Adjust the structure to the optimal state, and ensure the smooth operation of the product.
3. The piston rod and the back cover cramping technology, improving product quality.
4. Combined with enterprise color planning, it is redesigned by new color system and precise treatment of particulars.



The back cover cramping



SDA32X5



SDA16X30



SDA50X60-B



SDA25X60-B



SDA50X60

Ordering Code

SDA	20	30	10	S	B
Series	Bore	Stroke	Adjustable Stroke	Magnet	Thread Type
SDA: Double acting	12 16 20 25 32 40	5-130mm	10: 10mm 20: 20mm 30: 30mm 50: 50mm 75: 75mm 100: 100mm	S: With magnet Blank: Without magnet	Blank: Female thread B: Male thread
SSA: Single acting, Spring-Return	50 63 80 100				
STA: Single acting, Spring-Extend					
SDAD: Double-shaft type					
SDAJ: Double-shaft with adjustable stroke					

* Sensor model JEL-01/ JEL-11, please refer to P173 for the specific ordering code.

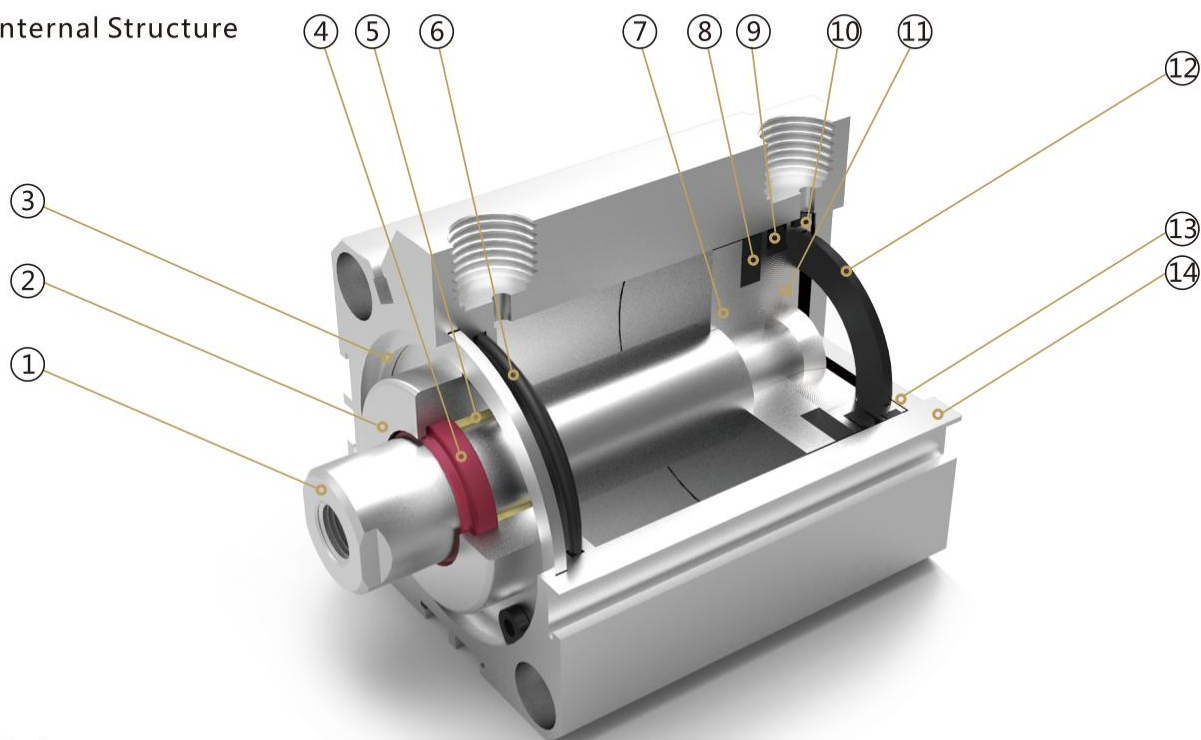
Specification

Bore (mm)		12	16	20	25	32	40	50	63	80	100
Operation		Double Acting									
		Single Acting Spring-out / Single Acting Spring-in									-
Working Medium		Air									
Operating Pressure Range	Double Acting	0.1 ~ 1.0MPa									
	Single Acting	0.2 ~ 0.9MPa									-
Proof Pressure		1.5 MPa									
Operating Temperature Range		-20 ~ 80℃									
Operating Speed Range	Double Acting	30 ~ 500 mm/s					30 ~ 350 mm/s		30 ~ 250 mm/s		
	Single Acting	50 ~ 500 mm/s									-
Port Size		M5×0.8				G1/8"		G1/4"		G3/8"	

Stroke

Bore		Standard Stroke																			Max. Stroke				
SDA	12/16	Magnetic	5	10	15	20	25	30	35	40	45	50											50		
		Non-magnetic	5	10	15	20	25	30	35	40	45	50	55	60											60
	20	Magnetic	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90			90		
		Non-magnetic	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	100			100	
	25/32/40/50 63/80/100	Magnetic	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120			120
		Non-magnetic	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130		
SSA/STA	12/16/20/25 32/40/50/63	Single acting	5	10	15	20	25	30																50	

Internal Structure



Parts

Number	Name	Number	Name
1	Piston rod	8	Magnet
2	Front cover	9	Piston seal
3	C clip	10	Anti-friction seal
4	Shaft seal	11	Magnet base
5	DU bearing	12	Anti-collision gasket
6	O ring	13	Back cover
7	Piston	14	Body

SDA Series

Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

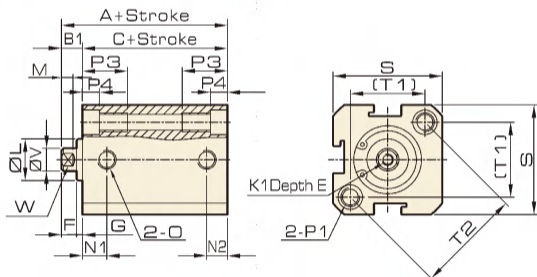
JGP

JSQB

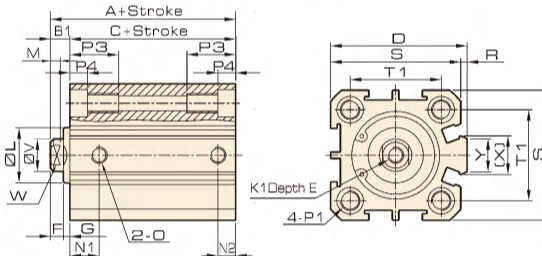
Sensor

Overall Dimension

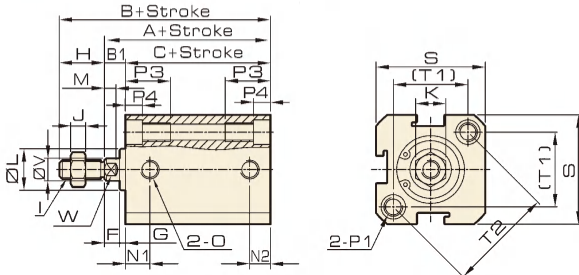
SDA12-16 Female Thread



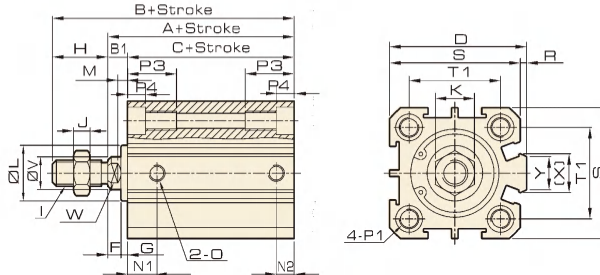
SDA20-100 Female Thread



SDA12-16 Male Thread



SDA20-100 Male Thread



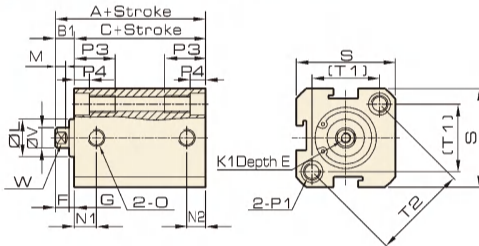
Dimension

Bore/ Symbol Type	A		B		C		B1	D	E	F	G	H	I	J	K	K1	L	M
	Standard	With Magnet	Standard	With Magnet	Standard	With Magnet												
12	22	32	34	44	17	27	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	10	3
16	24	34	36	46	18.5	28.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	11	3
20	25	35	40	50	19.5	29.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7	13	3
25	27	37	44	54	21	31	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8	17	3
32	31.5	41.5	49.5	59.5	24.5	34.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0	22	3
40	33	43	61	71	26	36	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25	28	3
50	37	47	65	75	28	38	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5	38	3
63	41	51	69	79	32	42	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5	40	3
80	52	62	85	95	41	51	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5	45	4
100	63	73	101	111	51	61	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5	55	4

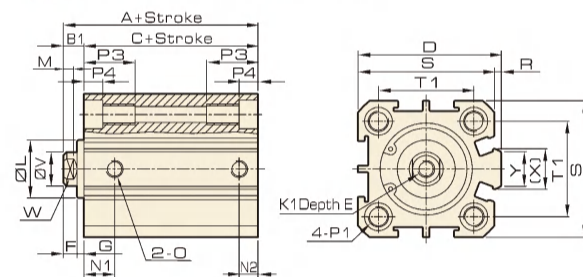
Bore/ Symbol Stroke	N1		N2		O	P1			P3	P4	R	S	T1	T2	V	W	X	Y
	S=5	S>5	S=5	S>5														
12	7.5		5		M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2			12	4.5	-	25	16.3	23	6	5	-	-
16	8		5	5.5	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2			12	4.5	-	29	19.8	28	6	5	-	-
20	8.5		5.5		M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2			14	4.5	2	34	24	-	8	6	11.2	10
25	9		5.5		M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6			15	5.5	2	40	28	-	10	8	12	10
32	9		6.5	8	G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6			16	5.5	6	44	34	-	12	10	18	14
40	9		7.5		G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7			20	7.5	6.5	52	40	-	16	14	21	14
50	8	10.5	8	10.5	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7			25	8.5	9.5	62	48	-	20	17	29.5	19
63	9.5	11	9.5	11	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7			25	8.5	9.5	75	60	-	20	17	26	19
80	11.5	14	11.5	14	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3			25	10.5	10	94	74	-	25	22	36	26
100	15	20	15	18	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3			30	13	10	114	90	-	32	27	35.5	26

Overall Dimension

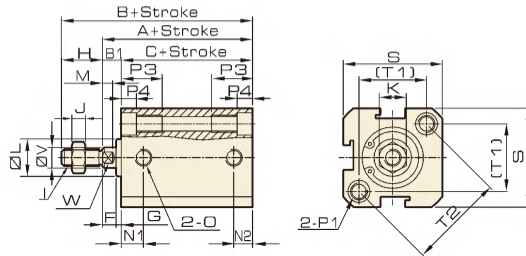
SSA12-16 Female Thread



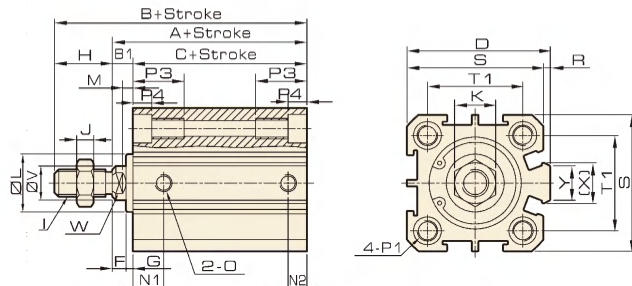
SSA20-63 Female Thread



SSA12-16 Male Thread



SSA20-63 Male Thread



Dimension

Bore/ Symbol	A				B				C				B1	D	E	F	G	H	I	J	K	K1
Type	Standard		With Magnet		Standard		With Magnet		Standard		With Magnet											
Stroke	0 <S≤10	10 <S≤30	0 <S≤10	10 <S≤30	0 <S≤10	10 <S≤30	0 <S≤10	10 <S≤30	0 <S≤10	10 <S≤30	0 <S≤10	10 <S≤30										
12	32	42	42	52	44	54	54	64	27	37	37	47	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5
16	34	44	44	54	46	56	56	66	28.5	38.5	38.5	48.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5
20	35	45	45	55	50	60	60	70	29.5	39.5	39.5	49.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7
25	37	47	47	57	54	64	64	74	31	41	41	51	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8
32	41.5	51.5	51.5	61.5	59.5	69.5	69.5	79.5	34.5	44.5	44.5	54.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0
40	43	53	53	63	71	81	81	91	36	46	46	56	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25
50	47	57	57	67	75	85	85	95	38	48	48	58	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5
63	51	61	61	71	79	89	89	99	42	52	52	62	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5
80	62	72	72	82	95	105	105	115	51	61	61	71	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5
100	73	83	83	93	111	121	121	131	61	71	71	81	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5

Bore/ Symbol Stroke	L	M	N1		N2		O	P1	P3	P4	R	S	T1	T2	V	W	X	Y
			S=5	S>5	S=5	S>5												
12	10	3	7.5		5		M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	25	16.3	23	6	5	-	-
16	11	3	8		5	5.5	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	29	19.8	28	6	5	-	-
20	13	3	8.5		5.5		M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	14	4.5	2	34	24	-	8	6	11.2	10
25	17	3	9		5.5		M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	15	5.5	2	40	28	-	10	8	12	10
32	22	3	9		6.5	8	G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	16	5.5	6	44	34	-	12	10	18	14
40	28	3	9		7.5		G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7	20	7.5	6.5	52	40	-	16	14	21	14
50	38	3	8	10.5	8	10.5	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	62	48	-	20	17	29.5	19
63	40	3	9.5	11	9.5	11	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	75	60	-	20	17	26	19
80	45	4	11.5	14	11.5	14	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3	25	10.5	10	94	74	-	25	22	36	26
100	55	4	15	20	15	18	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3	30	13	10	114	90	-	32	27	35.5	26

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

SDA Series

Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

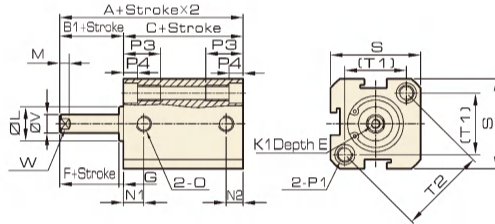
JGP

JSQB

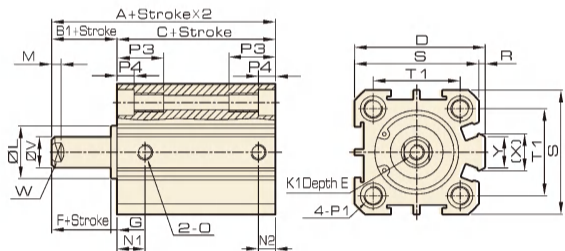
Sensor

Overall Dimension

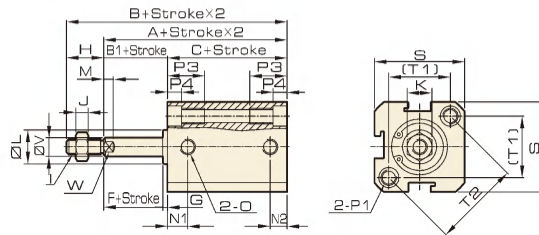
STA12-16 Female Thread



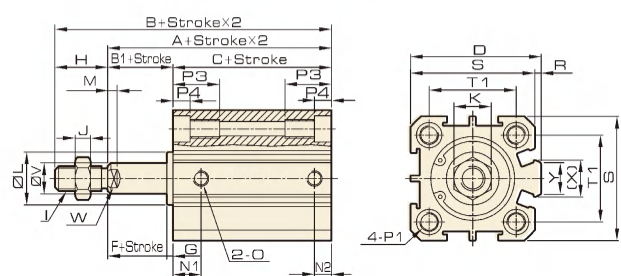
STA20-63 Female Thread



STA12-16 Male Thread



STA20-63 Male Thread



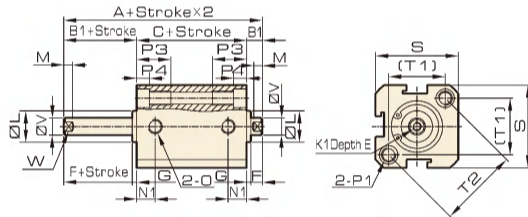
Dimension

Bore/ Symbol Type	A				B				C				B1	D	E	F	G	H	I	J	K	K1
	Standard		With Magnet		Standard		With Magnet		Standard		With Magnet											
	Stroke	0 <S≤10	10 <S≤30	0 <S≤10	10 <S≤30	0 <S≤10	10 <S≤30	0 <S≤10	10 <S≤30	0 <S≤10	10 <S≤30	0 <S≤10										
12	32	42	42	52	44	54	54	64	27	37	37	47	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5
16	34	44	44	54	46	56	56	66	28.5	38.5	38.5	48.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5
20	35	45	45	55	50	60	60	70	29.5	39.5	39.5	49.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7
25	37	47	47	57	54	64	64	74	31	41	41	51	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8
32	41.5	51.5	51.5	61.5	59.5	69.5	69.5	79.5	34.5	44.5	44.5	54.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0
40	43	53	53	63	71	81	81	91	36	46	46	56	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25
50	47	57	57	67	75	85	85	95	38	48	48	58	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5
63	51	61	61	71	79	89	89	99	42	52	52	62	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5
80	62	72	72	82	95	105	105	115	51	61	61	71	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5
100	73	83	83	93	111	121	121	131	61	71	71	81	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5

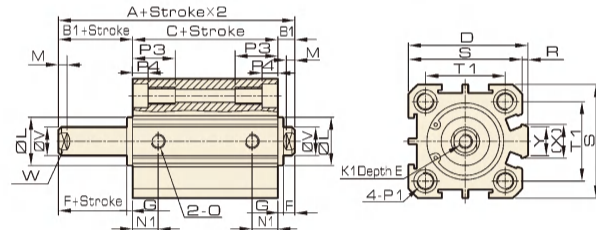
Bore/ Symbol Stroke	L	M	N1		N2		O	P1	P3	P4	R	S	T1	T2	V	W	X	Y
			S=5	S>5	S=5	S>5												
12	10	3	7.5		5		M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	25	16.3	23	6	5	-	-
16	11	3	8		5	5.5	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	29	19.8	28	6	5	-	-
20	13	3	8.5		5.5		M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	14	4.5	2	34	24	-	8	6	11.2	10
25	17	3	9		5.5		M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	15	5.5	2	40	28	-	10	8	12	10
32	22	3	9		6.5	8	G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	16	5.5	6	44	34	-	12	10	18	14
40	28	3	9		7.5		G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7	20	7.5	6.5	52	40	-	16	14	21	14
50	38	3	8	10.5	8	10.5	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	62	48	-	20	17	29.5	19
63	40	3	9.5	11	9.5	11	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	75	60	-	20	17	26	19
80	45	4	11.5	14	11.5	14	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3	25	10.5	10	94	74	-	25	22	36	26
100	55	4	15	20	15	18	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3	30	13	10	114	90	-	32	27	35.5	26

Overall Dimension

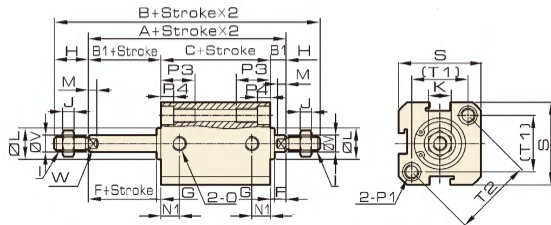
SDAD12-16 Female Thread



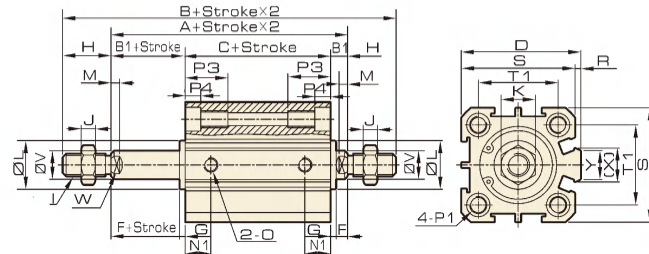
SDAD20-100 Female Thread



SDAD12-16 Male Thread



SDAD20-100 Male Thread



Dimension

Bore/ Symbol	A		B		C		B1	D	E	F	G	H	I	J	K	K1	L	M	N1	
	Standard	With Magnet	Standard	With Magnet	Standard	With Magnet													S=5	S>5
12	27	37	51	61	17	27	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	10	3	5.5	6.5
16	29.5	39.5	53.5	63.5	18.5	28.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	11	3	6.5	7.5
20	30.5	40.5	60.5	70.5	19.5	29.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7	13	3	7.5	
25	33	43	67	77	21	31	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8	17	3	8	
32	38.5	48.5	74.5	84.5	24.5	34.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0	22	3	8	9
40	40	50	96	106	26	36	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25	28	3	8	10
50	46	56	102	112	28	38	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5	38	3	8	10.5
63	50	60	106	116	32	42	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5	40	3	9.5	11
80	63	73	129	139	41	51	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5	45	4	11.5	14
100	75	85	151	161	51	61	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5	55	4	15	20

Bore/ Symbol	O	P1	P3	P4	R	S	T1	T2	V	W	X	Y
12	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	25	16.3	23	6	5	-	-
16	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	29	19.8	28	6	5	-	-
20	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	14	4.5	2	34	24	-	8	6	11.2	10
25	M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	15	5.5	2	40	28	-	10	8	12	10
32	G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	16	5.5	6	44	34	-	12	10	18	14
40	G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7	20	7.5	6.5	52	40	-	16	14	21	14
50	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	62	48	-	20	17	29.5	19
63	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	75	60	-	20	17	26	19
80	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3	25	10.5	10	94	74	-	25	22	36	26
100	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3	30	13	10	114	90	-	32	27	35.5	26

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

JGP

JSQB

Sensor

SDA Series

Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

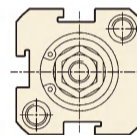
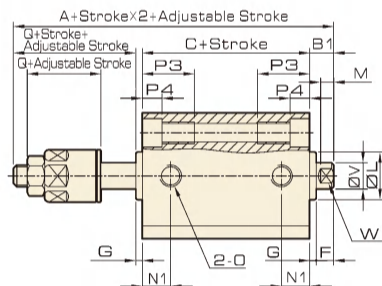
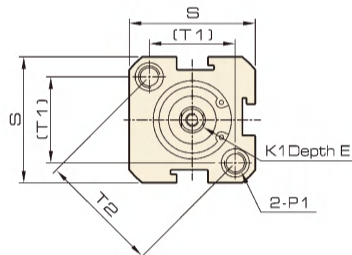
TN

JSQB

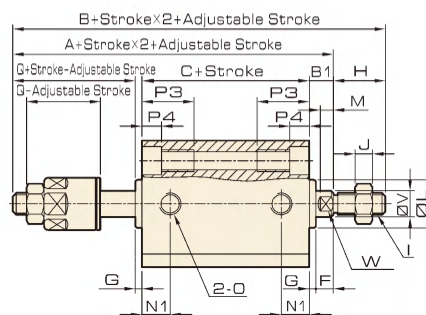
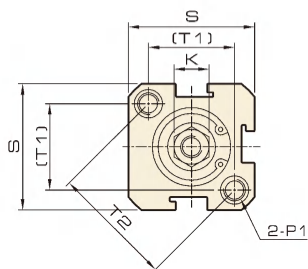
Sensor

Overall Dimension

SDAJ12-16 Female Thread



SDAJ12-16 Male Thread



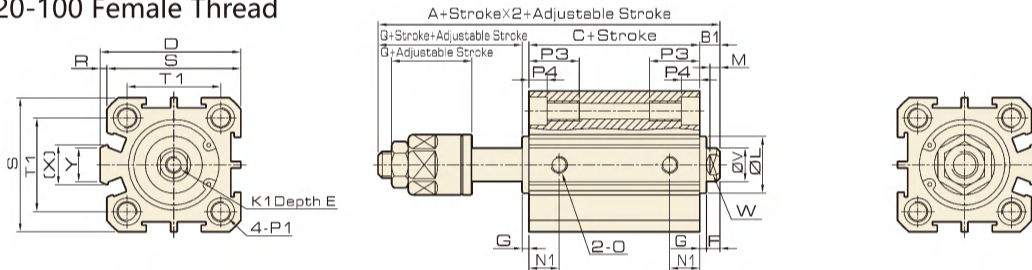
Dimension

Bore/ Symbol Type	A		B		C		B1	D	E	F	G	H	I	J	K	K1	L	M	N1	
	Standard	With Magnet	Standard	With Magnet	Standard	With Magnet													S=5	S>5
12	41	51	53	63	17	27	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	10	3	5.5	6.5
16	43	53	55	65	18.5	28.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	11	3	6.5	7.5
20	47.5	57.5	62.5	72.5	19.5	29.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7	13	3	7.5	
25	53	63	70	80	21	31	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8	17	3	8	
32	61.5	71.5	79.5	89.5	24.5	34.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0	22	3	8	9
40	64	74	92	102	26	36	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25	28	3	8	10
50	70	80	98	108	28	38	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5	38	3	8	10.5
63	74	84	102	112	32	42	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5	40	3	9.5	11
80	92.5	102.5	125.5	135.5	41	51	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5	45	4	11.5	14
100	110.5	120.5	148.5	158.5	51	61	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5	55	4	15	20

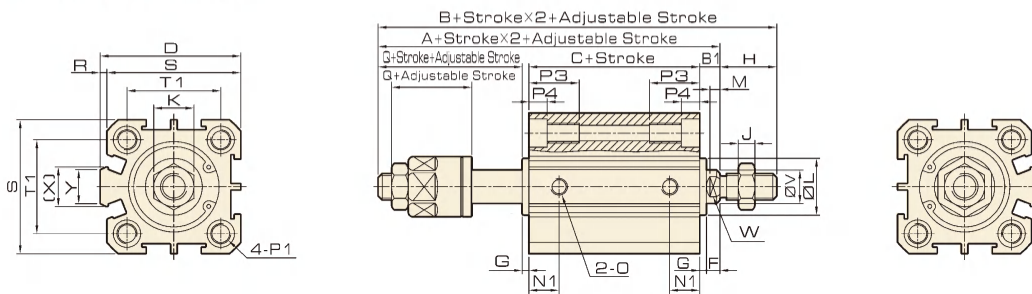
Bore/ Symbol	O	P1	P3	P4	Q	R	S	T1	T2	V	W	X	Y
12	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	17	-	25	16.3	23	6	5	-	-
16	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	17	-	29	19.8	28	6	5	-	-
20	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	14	4.5	21	2	34	24	-	8	6	11.2	10
25	M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	15	5.5	24	2	40	28	-	10	8	12	10
32	G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	16	5.5	27	6	44	34	-	12	10	18	14
40	G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7	20	7.5	28	6.5	52	40	-	16	14	21	14
50	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	29	9.5	62	48	-	20	17	29.5	19
63	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	29	9.5	75	60	-	20	17	26	19
80	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3	25	10.5	35.5	10	94	74	-	25	22	36	26
100	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3	30	13	42.5	10	114	90	-	32	27	35.5	26

Overall Dimension

SDAJ20-100 Female Thread



SDAJ20-100 Male Thread



Dimension

Bore/ Symbol Type	A		B		C		B1	D	E	F	G	H	I	J	K	K1	L	M	N1	
	Standard	With Magnet	Standard	With Magnet	Standard	With Magnet													S=5	S>5
12	41	51	53	63	17	27	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	10	3	5.5	6.5
16	43	53	55	65	18.5	28.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	11	3	6.5	7.5
20	47.5	57.5	62.5	72.5	19.5	29.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7	13	3	7.5	
25	53	63	70	80	21	31	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8	17	3	8	
32	61.5	71.5	79.5	89.5	24.5	34.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0	22	3	8	9
40	64	74	92	102	26	36	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25	28	3	8	10
50	70	80	98	108	28	38	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5	38	3	8	10.5
63	74	84	102	112	32	42	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5	40	3	9.5	11
80	92.5	102.5	125.5	135.5	41	51	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5	45	4	11.5	14
100	110.5	120.5	148.5	158.5	51	61	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5	55	4	15	20

Bore/ Symbol	O	P1	P3	P4	Q	R	S	T1	T2	V	W	X	Y
12	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	17	-	25	16.3	23	6	5	-	-
16	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	17	-	29	19.8	28	6	5	-	-
20	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	14	4.5	21	2	34	24	-	8	6	11.2	10
25	M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	15	5.5	24	2	40	28	-	10	8	12	10
32	G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	16	5.5	27	6	44	34	-	12	10	18	14
40	G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7	20	7.5	28	6.5	52	40	-	16	14	21	14
50	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	29	9.5	62	48	-	20	17	29.5	19
63	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	29	9.5	75	60	-	20	17	26	19
80	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3	25	10.5	35.5	10	94	74	-	25	22	36	26
100	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3	30	13	42.5	10	114	90	-	32	27	35.5	26

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

JGP

JSQB

Sensor

CQ2 Series Compact Cylinder



Features

1. The adaptability of the product to various applications and environments has been improved, and adopts precision polished piston rod to improve the service life of the front dust ring.
2. Adjust the structure to the best state and ensure smooth operation of the product.

3. New piston rod and body riveting process to improve product texture.
4. Cooperate with enterprise color planning, endow it with new enterprise color system and appearance details.

Ordering Code

C D Q2	W	B	32	x	30	10	M
Inner Magnet	Operation	Mountings	Bore		Stroke	Adjustable Stroke	Thread
Blank: Without magnet	Blank: Standard Double acting	B: Thru hole (Standard)	12			10: 10mm	Blank: Female thread
D: With magnet	S: Single acting, Spring-Return	A: Both end thread hole	16			20: 20mm	M: Male thread
	T: Single acting, Spring-Extend	C: Thru hole+Thread	20			30: 30mm	
	W: Double shaft		25			50: 50mm	
	J: Adjustable		32			75: 75mm	
			40			100: 100mm	
			50				
			63				
			80				
			100				

* Sensor model JEL-07, please refer to P173 for the specific ordering code.

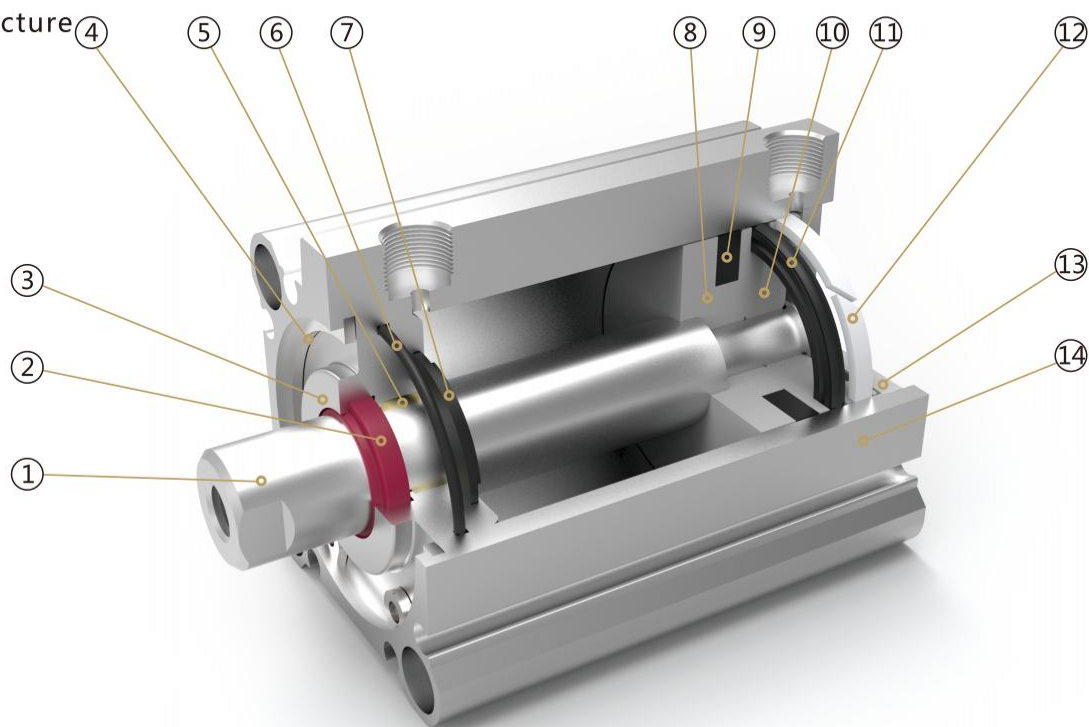
Specification

Bore (mm)		12	16	20	25	32	40	50	63	80	100
Operation		Double Acting									
		Single Acting Spring-out / Single Acting Spring-in									-
Working Medium											
Operating Pressure Range	Double Acting	0.1 ~ 1.0MPa									
	Single Acting	0.2 ~ 0.9MPa									-
Proof Pressure		1.5MPa									
Operating Temperature Range		-20 ~ 80°C									
Operating Speed Range	Double Acting	30 ~ 500mm/s					30 ~ 350mm/s			30 ~ 250mm/s	
	Single Acting	50 ~ 500mm/s									
Port Size		M5x0.8				G1/8			G1/4		G3/8

Stroke

Bore			Standard Stroke																	Max. Stroke	
CQ2	12/16	Magnetic	5	10	15	20	25	30											30		
	20/25		5	10	15	20	25	30	35	40	45	50								50	
CQ2/TCQ2	32/40/50 63/80/100		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	100
CQ2S/CQ2T	12/16	Single acting	5	10	15	20															20
	20/25/32 40/50/63		5	10	15	20	25	30												30	
CQ2A	32/40/50 63/80/100	Long stroke	125	150	175	200	225	250	275	300											300

Internal Structure



Parts

Number	Name	Number	Name
1	Piston rod	8	Piston
2	Shaft seal	9	Magnet
3	Front cover	10	Magnet base
4	C clip	11	Piston seal
5	DU bearing	12	Anti-friction seal
6	O ring	13	Back cover
7	Anti-collision gasket	14	Body

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

CQ2 Series Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

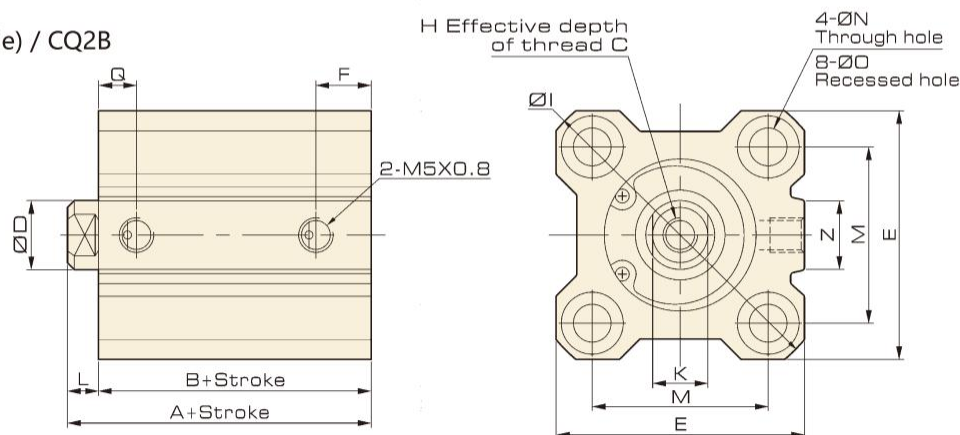
JSQB

Sensor

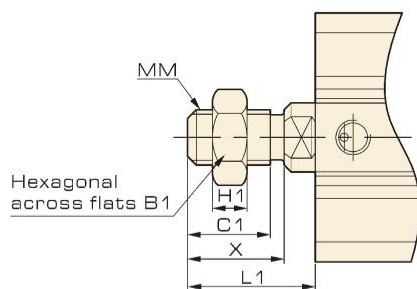
Overall Dimension

Ø12~Ø25 Without Magnet

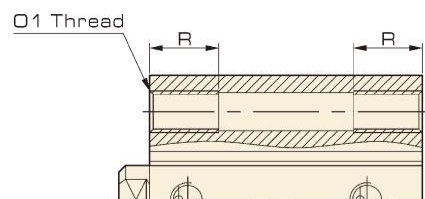
Standard (Thru Hole) / CQ2B



Male Piston Rod Thread



Both Ends Of Thread / CQ2A



Dimension

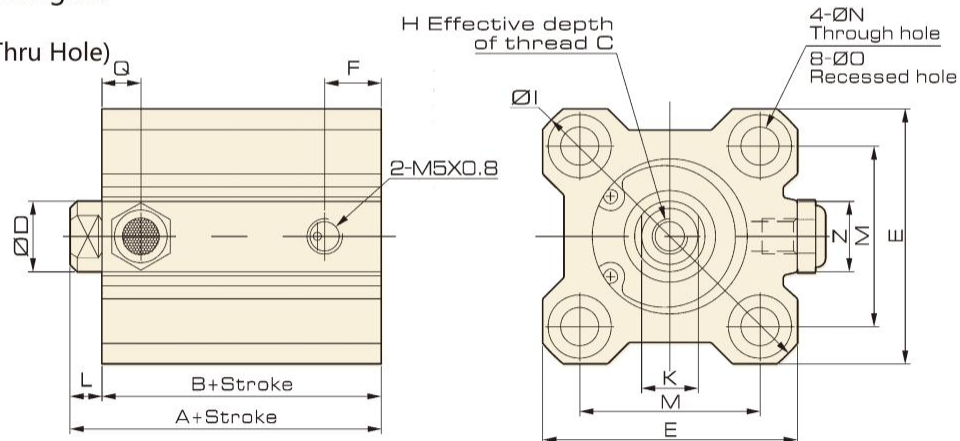
Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	F	H	I	K	L	M
12	5~30	20.5	17	6	6	25	5	M3×0.5	32	5	3.5	15.5
16	5~30	22	18.5	8	8	29	5.5	M4×0.7	38	6	3.5	20
20	5~50	24	19.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5
25	5~50	27.5	22.5	12	12	40	5.5	M6×1	52	10	5	28

Bore/Symbol	N	O	Q	Z	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	7.5	-	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	8	10	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	10	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	10	17	15	6	22.5	M10×1.25	17.5	M6×1	10

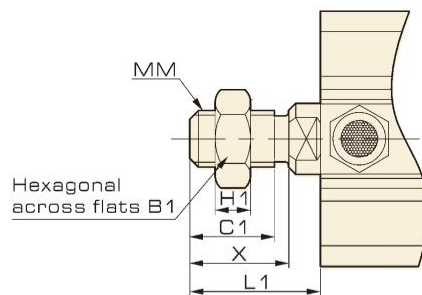
Overall Dimension

Ø12~Ø25 Without Magnet

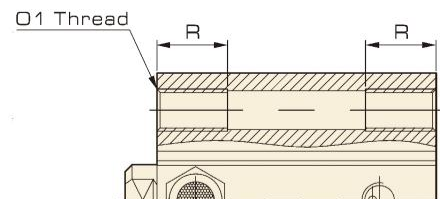
Spring-Return (Thru Hole) CQ2SB



Male Piston Rod Thread



Both Ends Of Thread / CQ2SA



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	F	H	I	K	L	M
12	5/10	30.5	27	6	6	25	5	M3×0.5	32	5	3.5	15.5
	15/20	40.5	37									
16	5/10	32	28.5	8	8	29	5.5	M4×0.7	38	6	3.5	20
	15/20	42	38.5									
20	5/10	34	29.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5
	15/20/25/30	44	39.5									
25	5/10	37.5	32.5	12	12	40	5.5	M6×1	52	10	5	28
	15/20/25/30	47.5	42.5									

Bore/Symbol	N	O	Q	Z	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	7.5	-	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	8	10	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	10	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	10	17	15	6	22.5	M10×1.25	17.5	M6×1	10

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

CQ2 Series Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

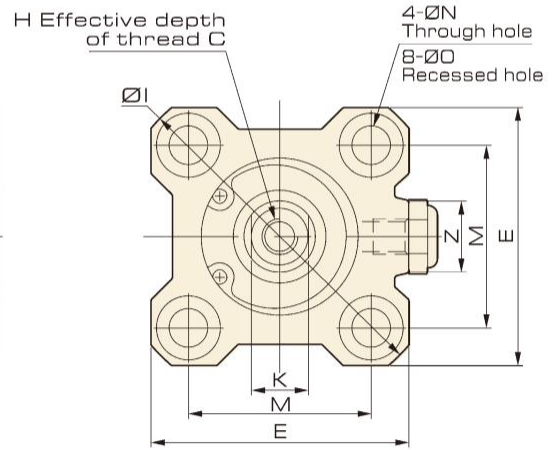
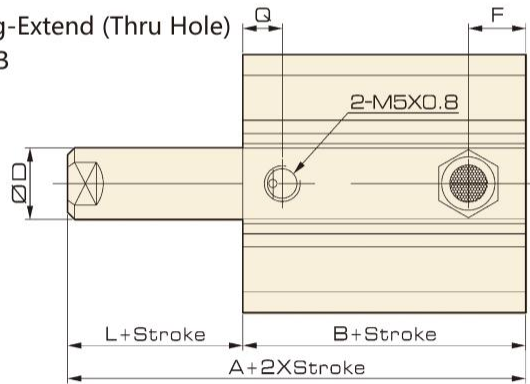
JSQB

Sensor

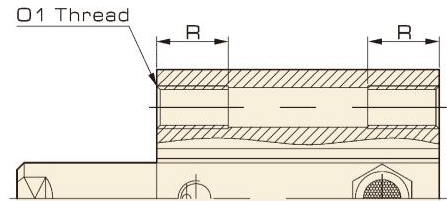
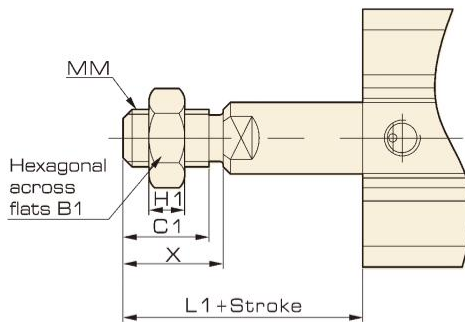
Overall Dimension

Ø12~Ø25 Without Magnet

Spring-Extend (Thru Hole) CQ2TB



Male Piston Rod Thread



Dimension

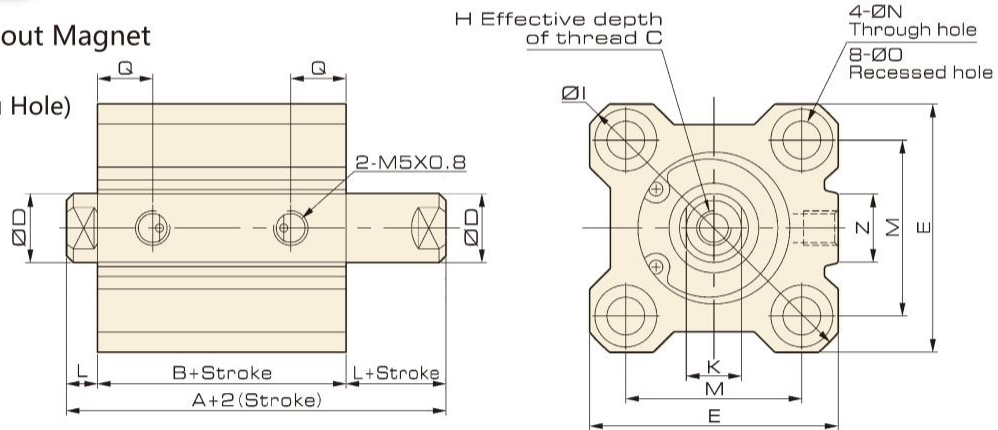
Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	F	H	I	K	L	M
12	5/10	30.5	27	6	6	25	5	M3×0.5	32	5	3.5	15.5
	15/20	40.5	37									
16	5/10	32	28.5	8	8	29	5.5	M4×0.7	38	6	3.5	20
	15/20	42	38.5									
20	5/10	34	29.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5
	15/20/25/30	44	39.5									
25	5/10	37.5	32.5	12	12	40	5.5	M6×1	52	10	5	28
	15/20/25/30	47.5	42.5									

Bore/Symbol	N	O	Q	Z	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	7.5	-	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	8	10	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	10	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	10	17	15	6	22.5	M10×1.25	17.5	M6×1	10

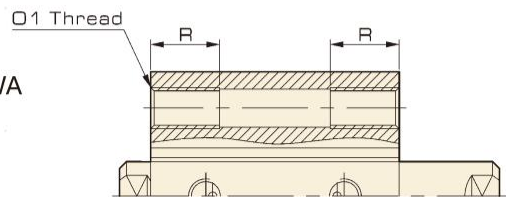
Overall Dimension

Ø12~Ø25 Without Magnet

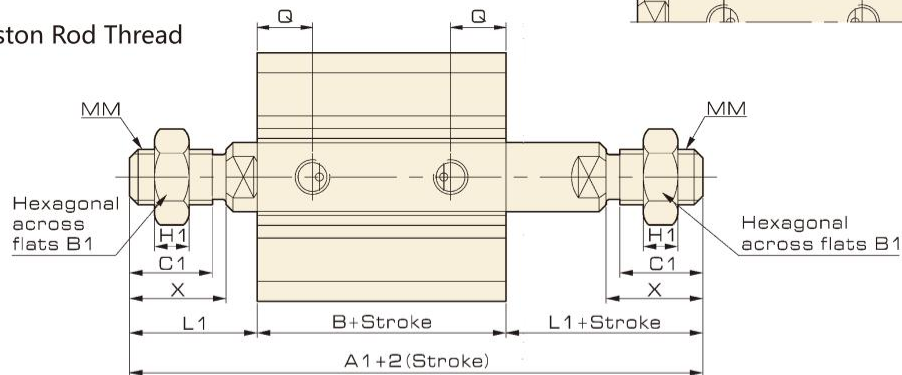
Standard (Thru Hole) CQ2WB



Both Ends Of Thread / CQ2WA



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	H	I	K	L	M	N
12	5~30	32.2	25.2	6	6	25	M3×0.5	32	5	3.5	15.5	3.5
16	5~30	33	26	8	8	29	M4×0.7	38	6	3.5	20	3.5
20	5~50	35	26	7	10	36	M5×0.8	47	8	4.5	25.5	5.5
25	5~50	39	29	12	12	40	M6×1	52	10	5	28	5.5

Bore/Symbol	O	Q	Z	A1	B1	C1	H1	L1	MM	X	O1	R
12	6.5 deep 3.5	9	-	43.2	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	6.5 deep 3.5	9.5	10	57	10	10	5	15.5	M6×1	12	M4×0.7	7
20	9 deep 7	8	10	63	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9 deep 7	9	10	74	17	15	6	22.5	M10×1.25	17.5	M6×1	10

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

CQ2 Series Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

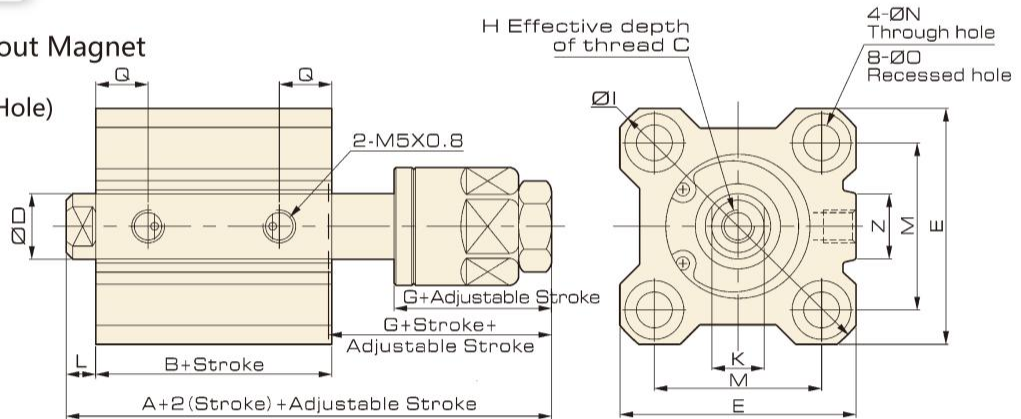
JSQB

Sensor

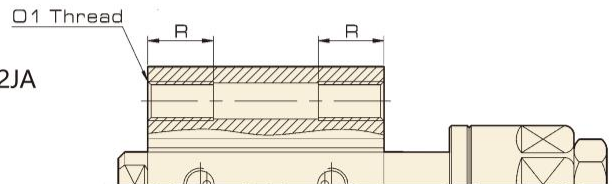
Overall Dimension

Ø12~Ø25 Without Magnet

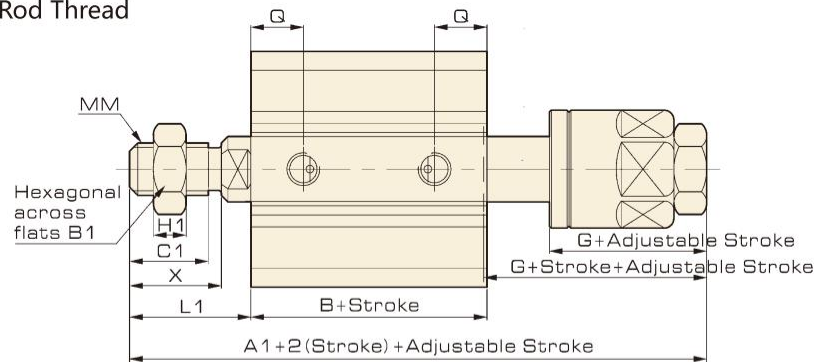
Standard (Thru Hole) CQ2JB



Both Ends Of Thread / CQ2JA



Male Piston Rod Thread



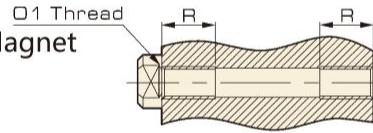
Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	G	H	I	K	L	M	N
12	5~30	45.2	25.2	6	6	25	17	M3×0.5	32	5	3.5	15.5	3.5
16	5~30	50	26	8	8	29	21	M4×0.7	38	6	3.5	20	3.5
20	5~50	54	26	7	10	36	24	M5×0.8	47	8	4.5	25.5	5.5
25	5~50	60.5	29	12	12	40	27	M6×1	52	10	5	28	5.5

Bore/Symbol	O	Q	Z	A1	B1	C1	H1	L1	MM	X	O1	R
12	6.5 deep 3.5	9	-	55.7	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	6.5 deep 3.5	9.5	10	62	10	10	5	15.5	M6×1	12	M4×0.7	7
20	9 deep 7	8	10	68	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9 deep 7	9	10	78	17	15	6	22.5	M10×1.25	17.5	M6×1	10

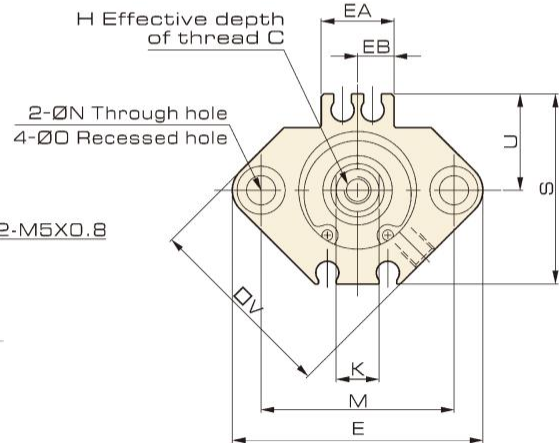
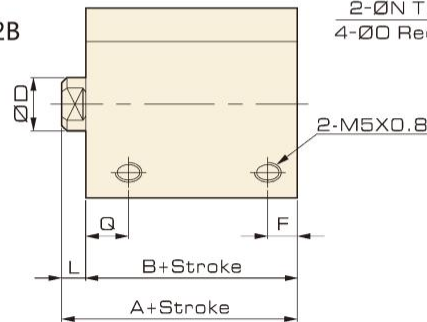
Overall Dimension

- Ø12~Ø25 Without Magnet

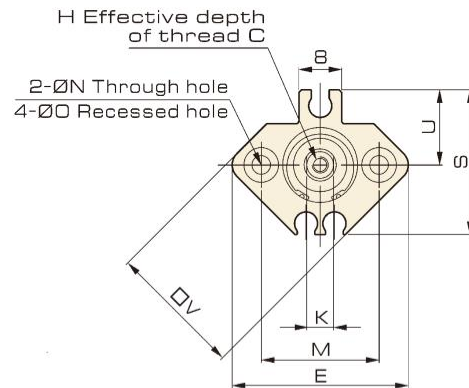
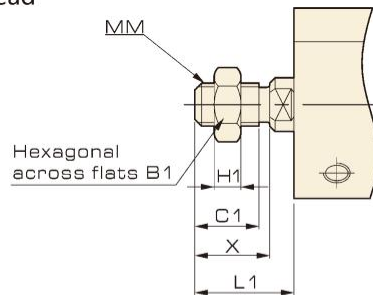


- Both Ends Of Thread / CDQ2A

- Standard (Thru Hole) / CDQ2B
Ø16~Ø25



- Male Piston Rod Thread
Ø12



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	F	H	K	L	M	N
12	5~30	31.5	28	6	6	33	-	-	7	M3×0.5	5	3.5	22	3.5
16	5~30	34	30.5	8	8	37	13.2	6.6	5.5	M4×0.7	6	3.5	28	3.5
20	5~50	36	31.5	7	10	47	13.6	6.8	5.5	M5×0.8	8	4.5	36	5.5
25	5~50	37.5	32.5	12	12	52	13.6	6.8	5.5	M6×1	10	5	40	5.5

Bore/Symbol	O	Q	S	U	V	B1	C1	H1	L1	MM	X	O1	R
12	6.5 deep 3.5	9	27.5	14	25	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	6.5 deep 3.5	9.5	29.5	15	29	10	10	5	15.5	M6×1	12	M4×0.7	7
20	9 deep 7	8	35.5	18	36	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9 deep 7	9	40.5	21	40	17	15	6	22.5	M10×1.25	17.5	M6×1	10

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

CQ2 Series Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

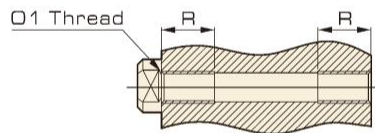
JSQB

Sensor

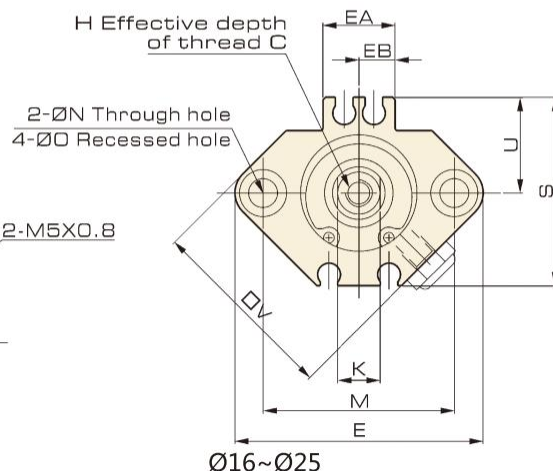
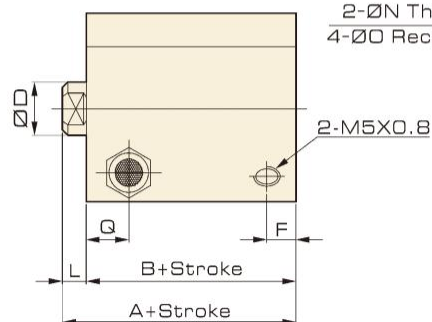
Overall Dimension

Ø12~Ø25 With Magnet

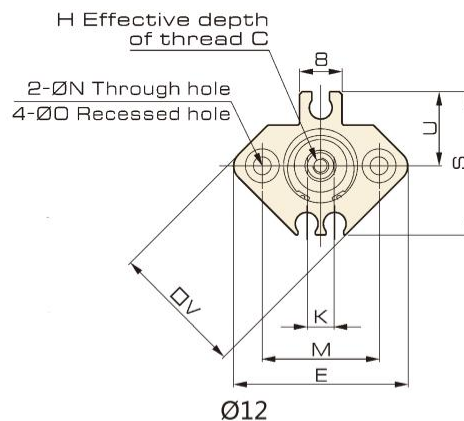
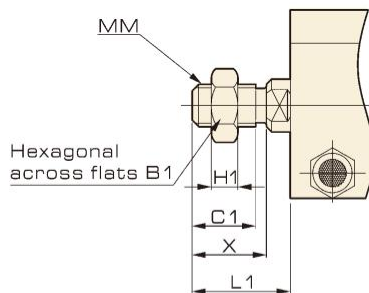
- Both Ends Of Thread CDQ2SA



- Spring-Return (Thru Hole) CDQ2SB Ø16~Ø25



- Male Piston Rod Thread



Dimension

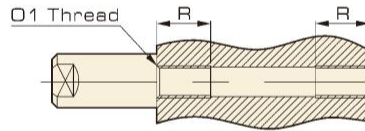
Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	F	H	K	L	M
12	5/10	41.5	38	6	6	33	-	-	7	M3×0.5	5	3.5	22
	15/20	51.5	48										
16	5/10	44	40.5	8	8	37	13.2	6.6	5.5	M4×0.7	6	3.5	28
	15/20	54	50.5										
20	5/10	46	41.5	7	10	47	13.6	6.8	5.5	M5×0.8	8	4.5	36
	15/20/25/30	56	51.5										
25	5/10	47.5	42.5	12	12	52	13.6	6.8	5.5	M6×1	10	5	40
	15/20/25/30	57.5	52.5										

Bore/Symbol	N	O	Q	S	U	V	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	9	27.5	14	25	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	9.5	29.5	15	29	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	35.5	18	36	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	40.5	21	40	17	15	6	22.5	M10×1.25	17.5	M6×1	10

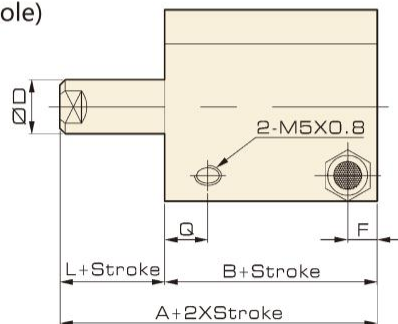
Overall Dimension

Ø12~Ø25 With Magnet

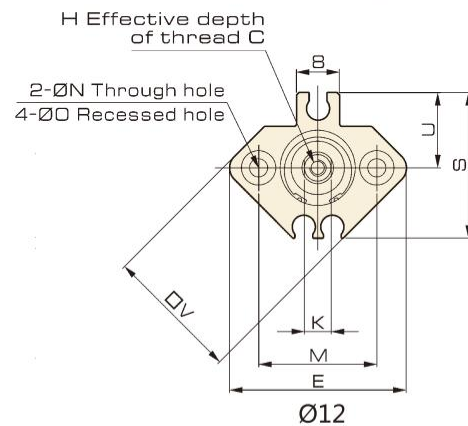
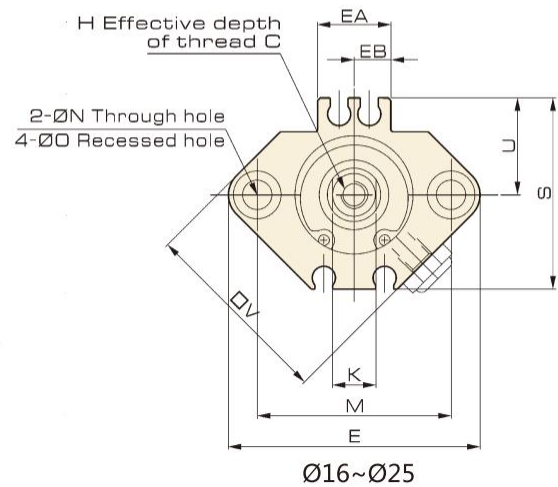
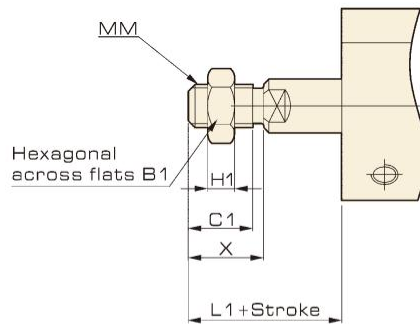
- Both Ends Of Thread CDQ2TA



- Spring-Extend (Thru Hole) CDQ2TB Ø16~Ø25



- Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	F	H	K	L	M
12	5/10	41.5	38	6	6	33	-	-	7	M3×0.5	5	3.5	22
	15/20	51.5	48										
16	5/10	44	40.5	8	8	37	13.2	6.6	5.5	M4×0.7	6	3.5	28
	15/20	54	50.5										
20	5/10	46	41.5	7	10	47	13.6	6.8	5.5	M5×0.8	8	4.5	36
	15/20/25/30	56	51.5										
25	5/10	47.5	42.5	12	12	52	13.6	6.8	5.5	M6×1	10	5	40
	15/20/25/30	57.5	52.5										

Bore/Symbol	N	O	Q	S	U	V	B1	C1	H1	L1	MM	X	O1	R
12	3.5	6.5 deep 3.5	9	27.5	14	25	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	3.5	6.5 deep 3.5	9.5	29.5	15	29	10	10	5	15.5	M6×1	12	M4×0.7	7
20	5.5	9 deep 7	8	35.5	18	36	13	12	5	18.5	M8×1.25	14	M6×1	10
25	5.5	9 deep 7	9	40.5	21	40	17	15	6	22.5	M10×1.25	17.5	M6×1	10

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

CQ2 Series Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

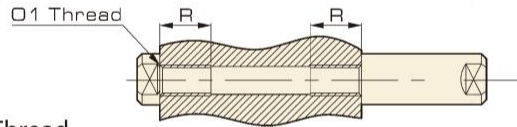
JGP

JSQB

Sensor

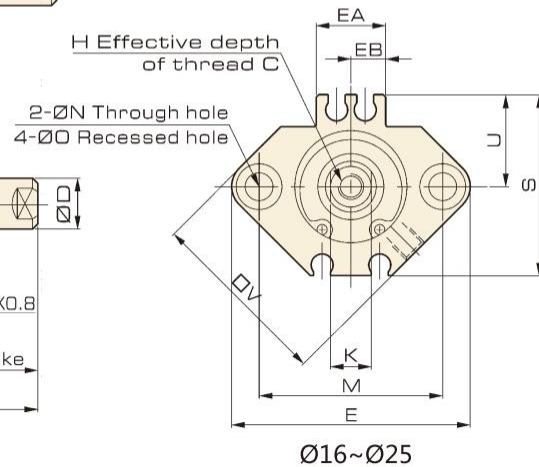
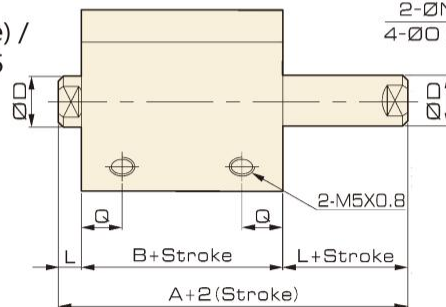
Overall Dimension

- Ø12~Ø25
With Magnet

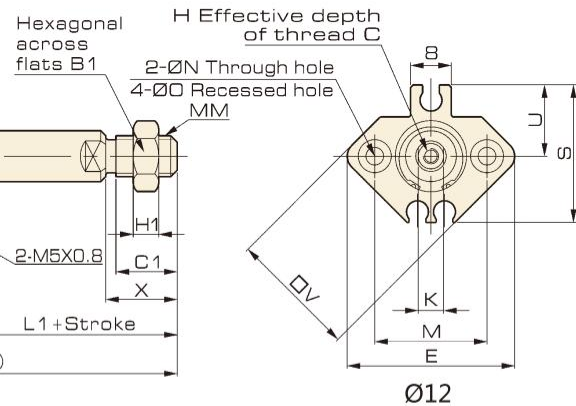
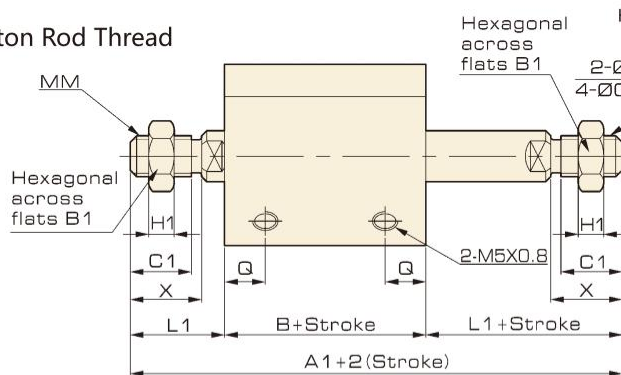


- Both Ends Of Thread
CDQ2WA

- Standard (Thru Hole) /
CDQ2WB Ø16~Ø25



- Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	H	K	L	M	N	O
12	5~30	39.4	32.4	6	6	33	-	-	M3×0.5	5	3.5	22	3.5	6.5 deep 3.5
16	5~30	43	36	8	8	37	13.2	6.6	M4×0.7	6	3.5	28	3.5	6.5 deep 3.5
20	5~50	47	38	7	10	47	13.6	6.8	M5×0.8	8	4.5	36	5.5	9 deep 7
25	5~50	49	39	12	12	52	13.6	6.8	M6×1	10	5	40	5.5	9 deep 7

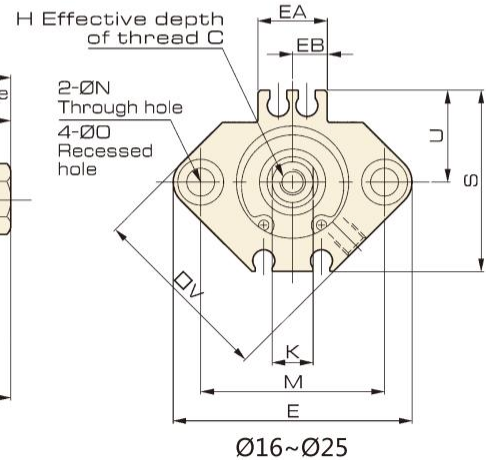
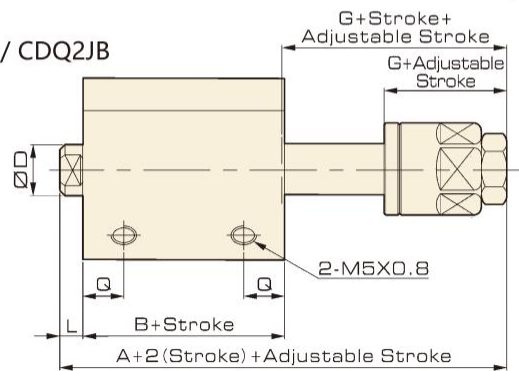
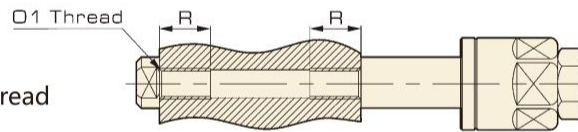
Bore/Symbol	Q	S	U	V	A1	B1	C1	H1	L1	MM	X	O1	R
12	9	27.5	14	25	60.4	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	9.5	29.5	15	29	67	10	10	5	15.5	M6×1	12	M4×0.7	7
20	8	35.5	18	36	75	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9	40.5	21	40	84	17	15	6	22.5	M10×1.25	17.5	M6×1	10

Overall Dimension

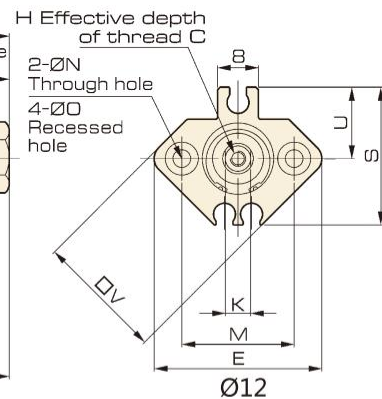
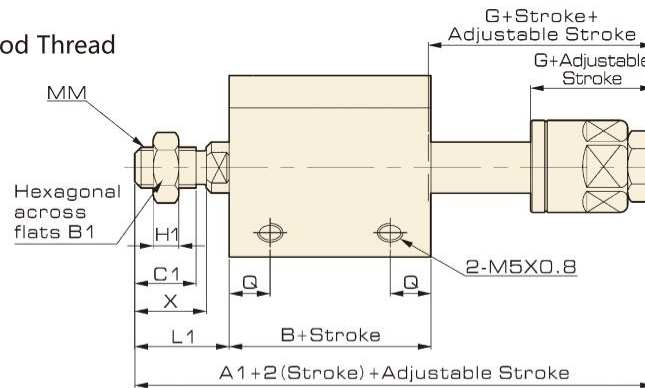
- Ø12~Ø25
With Magnet

- Both Ends Of Thread
CDQ2JA

- Standard (Thru Hole) / CDQ2JB
Ø16~Ø25



- Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	EA	EB	G	H	K	L	M	N
12	5~30	52.4	32.4	6	6	33	-	-	17	M3×0.5	5	3.5	22	3.5
16	5~30	60	36	8	8	37	13.2	6.6	21	M4×0.7	6	3.5	28	3.5
20	5~50	66	38	7	10	47	13.6	6.8	24	M5×0.8	8	4.5	36	5.5
25	5~50	70.5	39	12	12	52	13.6	6.8	27	M6×1	10	5	40	5.5

Bore/Symbol	O	Q	S	U	V	A1	B1	C1	H1	L1	MM	X	O1	R
12	6.5 deep 3.5	9	27.5	14	25	62.9	8	9	4	14	M5×0.8	10.5	M4×0.7	7
16	6.5 deep 3.5	9.5	29.5	15	29	72	10	10	5	15.5	M6×1	12	M4×0.7	7
20	9 deep 7	8	35.5	18	36	80	13	12	5	18.5	M8×1.25	14	M6×1	10
25	9 deep 7	9	40.5	21	40	88	17	15	6	22.5	M10×1.25	17.5	M6×1	10

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

CQ2 Series Compact Cylinder

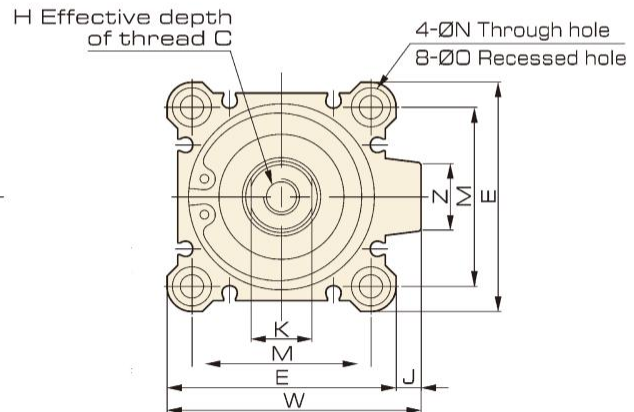
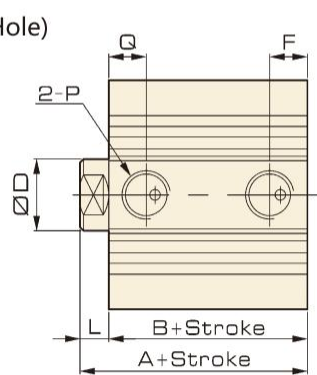


Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

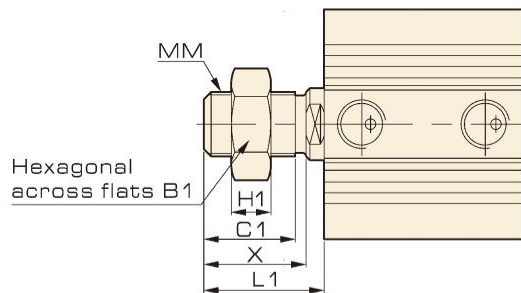
Overall Dimension

Ø32~Ø100 Without Magnet / With Magnet

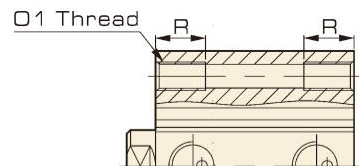
Standard (Thru Hole) CQ2B / CDQ2B



Male Piston Rod Thread



CQ2A / CDQ2A



Dimension

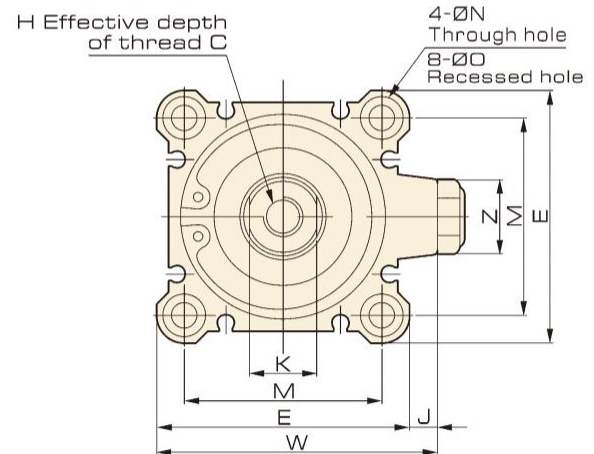
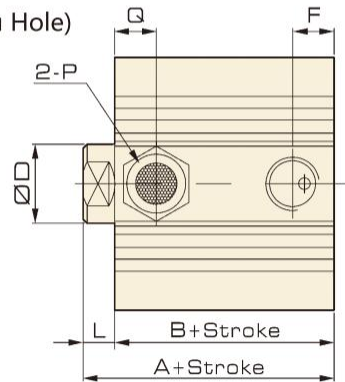
Bore/Symbol	Stroke Range (mm)	Without Magnet				With Magnet				C	D	E	H	J	K
		A	B	F	Q	A	B	F	Q						
32	5	30	23	6.5	7.5	40	33	7.5	10	13	16	45	M8×1.25	4.5	14
	10-50	40	33	7.5	10	46.5	39.5	7.5	12.5	13	16	52	M8×1.25	5	14
	50-100	46.5	39.5	7.5	12.5	48.5	40.5	10.5	10.5	15	20	64	M10×1.5	7	17
40	5	36.5	29.5	8	11	46.5	39.5	7.5	12.5	13	16	52	M8×1.25	5	14
	10-50	46.5	39.5	7.5	12.5	48.5	40.5	10.5	10.5	15	20	64	M10×1.5	7	17
	50-100	48.5	40.5	10.5	10.5	54	46	10.5	15	15	20	77	M10×1.5	7	17
50	5	38.5	30.5	9	9	48.5	40.5	10.5	10.5	15	20	64	M10×1.5	7	17
	10-50	48.5	40.5	10.5	10.5	54	46	10.5	15	15	20	77	M10×1.5	7	17
	50-100	53.5	43.5	12.5	16	63.5	53.5	12.5	16	21	25	98	M16×2	6	22
63	5	44	36	9.5	14	54	46	10.5	15	15	20	77	M10×1.5	7	17
	10-50	54	46	10.5	15	63.5	53.5	12.5	16	21	25	98	M16×2	6	22
	50-100	63.5	53.5	12.5	16	75	63	13	23	27	32	117	M20×2.5	6.5	27
80	5	65	53	13	23	75	63	13	23	27	32	117	M20×2.5	6.5	27
	10-50	75	63	13	23	75	63	13	23	27	32	117	M20×2.5	6.5	27
	50-100	75	63	13	23	75	63	13	23	27	32	117	M20×2.5	6.5	27
100	5	65	53	13	23	75	63	13	23	27	32	117	M20×2.5	6.5	27
	10-50	75	63	13	23	75	63	13	23	27	32	117	M20×2.5	6.5	27
	50-100	75	63	13	23	75	63	13	23	27	32	117	M20×2.5	6.5	27

Bore/Symbol	L	M	N	O	P	W	Z	B1	C1	H1	L1	MM	X	O1	R
32	7	34	5.5	9 deep 7	1/8	49.5	14	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
40	7	40	5.5	9 deep 7	1/8	57	15	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
50	8	50	6.6	11 deep 8	1/4	71	19	27	26	11	33.5	M18×1.5	28.5	M8×1.25	14
63	8	60	9	14 deep 10.5	1/4	84	19	27	26	11	33.5	M18×1.5	28.5	M10×1.5	18
80	10	77	11	17.5 deep 13.5	3/8	104	25	32	32.5	13	43.5	M22×1.5	35.5	M12×1.75	22
100	12	94	11	17.5 deep 13.5	3/8	123.5	25	41	32.5	13	43.5	M26×1.5	35.5	M12×1.75	22

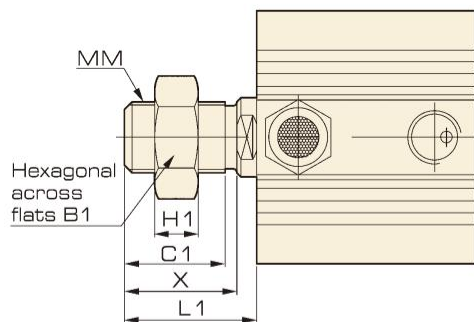
Overall Dimension

Ø32~Ø100 Without Magnet / With Magnet

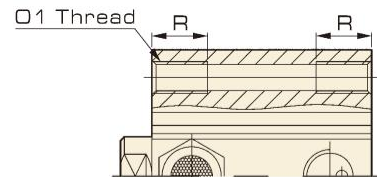
Spring-Return (Thru Hole) CQ2SB / CDQ2SB



Male Piston Rod Thread



Both Ends Of Thread CQ2SA / CDQ2SA



Dimension

Bore/Symbol	Stroke Range (mm)	Without Magnet				With Magnet				C	D	E	H	J	K
		A	B	F	Q	A	B	F	Q						
32	5/10	40	33	7.5	10	50	43	7.5	10	13	16	45	M8×1.25	4.5	14
	15/20/25/30	50	43			60	53								
40	5/10	46.5	39.5	7.5	12.5	56.5	49.5	7.5	12.5	13	16	52	M8×1.25	5	14
	15/20/25/30	56.5	49.5			66.5	59.5								
50	5/10	48.5	40.5	10.5	10.5	58.5	50.5	10.5	10.5	15	20	64	M10×1.5	7	17
	15/20/25/30	58.5	50.5			68.5	60.5								
63	5/10	54	46	10.5	15	64	56	10.5	15	15	20	77	M10×1.5	7	17
	15/20/25/30	64	56			74	66								

Bore/Symbol	L	M	N	O	P	W	Z	B1	C1	H1	L1	MM	X	O1	R
32	7	34	5.5	9 deep 7	1/8	49.5	14	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
40	7	40	5.5	9 deep 7	1/8	57	15	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
50	8	50	6.6	11 deep 8	1/4	71	19	27	26	11	33.5	M18×1.5	28.5	M8×1.25	14
63	8	60	9	14 deep 10.5	1/4	84	19	27	26	11	33.5	M18×1.5	28.5	M10×1.5	18

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

CQ2 Series

Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

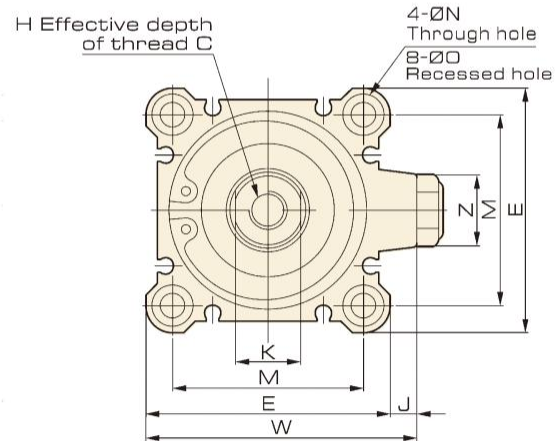
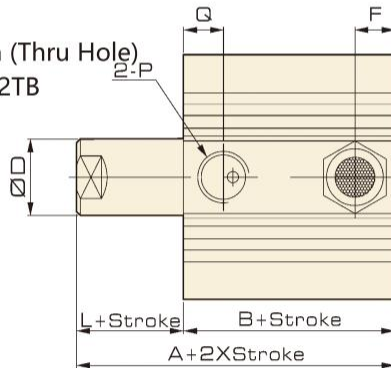
JSQB

Sensor

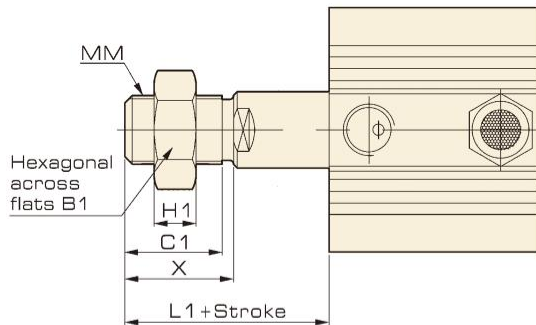
Overall Dimension

Ø32~Ø100 Without Magnet / With Magnet

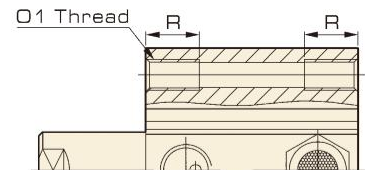
Spring-Return (Thru Hole) CQ2TB / CDQ2TB



Male Piston Rod Thread



Both Ends Of Thread CQ2TA / CDQ2TA



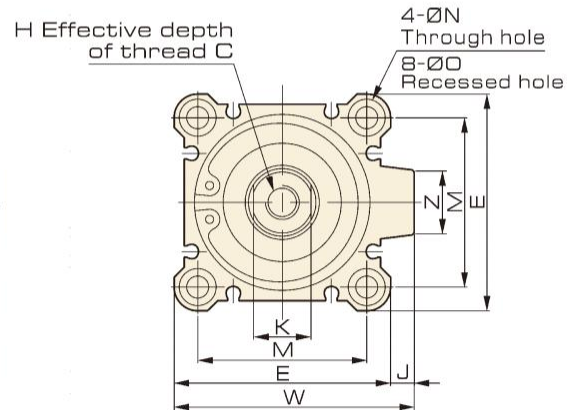
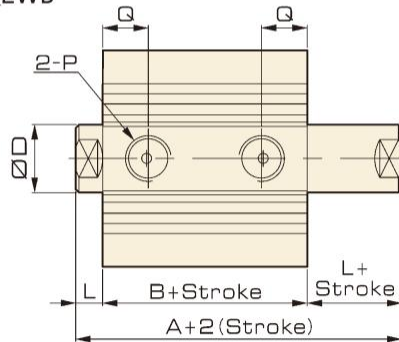
Dimension

Bore/Symbol	Stroke Range (mm)	Without Magnet				With Magnet				C	D	E	H	J	K
		A	B	F	Q	A	B	F	Q						
32	5/10	40	33	7.5	10	50	43	7.5	10	13	16	45	M8×1.25	4.5	14
	15/20/25/30	50	43			60	53								
40	5/10	46.5	39.5	7.5	12.5	56.5	49.5	7.5	12.5	13	16	52	M8×1.25	5	14
	15/20/25/30	56.5	49.5			66.5	59.5								
50	5/10	48.5	40.5	10.5	10.5	58.5	50.5	10.5	10.5	15	20	64	M10×1.5	7	17
	15/20/25/30	58.5	50.5			68.5	60.5								
63	5/10	54	46	10.5	15	64	56	10.5	15	15	20	77	M10×1.5	7	17
	15/20/25/30	64	56			74	66								
Bore/Symbol	L	M	N	O	P	W	Z	B1	C1	H1	L1	MM	X	O1	R
32	7	34	5.5	9 deep 7	1/8	49.5	14	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
40	7	40	5.5	9 deep 7	1/8	57	15	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
50	8	50	6.6	11 deep 8	1/4	71	19	27	26	11	33.5	M18×1.5	28.5	M8×1.25	14
63	8	60	9	14 deep 10.5	1/4	84	19	27	26	11	33.5	M18×1.5	28.5	M10×1.5	18

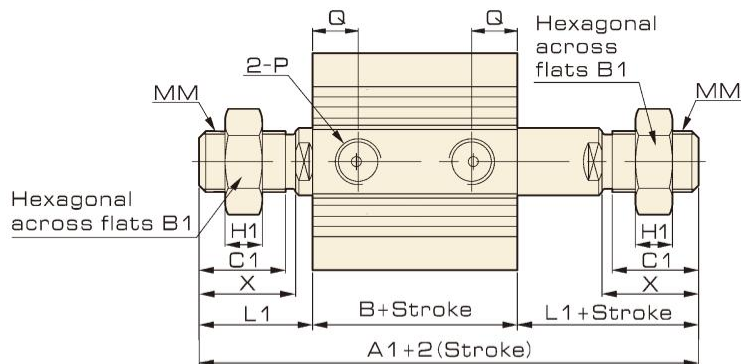
Overall Dimension

• Ø32~Ø100 Without Magnet / With Magnet

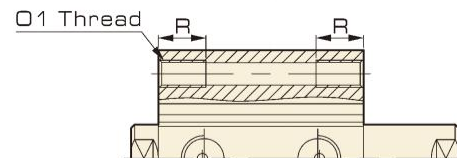
• Standard (Thru Hole) CQ2WB / CDQ2WB



• Male Piston Rod Thread



• Both Ends Of Thread CQ2WA / CDQ2WA



Dimension

Bore/Symbol	Stroke Range (mm)	Without Magnet			With Magnet			C	D	E	H	J	K	L	M	N	o
		A	A1	B	A	A1	B										
32	5~50	44.5	87.5	30.5	54.5	97.5	40.5	13	16	45	M8×1.25	4.5	14	7	34	5.5	9 deep 7
	50~100	54.5	97.5	40.5	64	107	50	13	16	52	M8×1.25	5	14	7	40	5.5	9 deep 7
40	5~50	54	97	40	64	107	50	13	16	52	M8×1.25	5	14	7	40	5.5	9 deep 7
	50~100	64	107	50	64	107	50	13	16	52	M8×1.25	5	14	7	40	5.5	9 deep 7
50	5~50	56.5	107.5	40.5	66.5	117.5	50.5	15	20	64	M10×1.5	7	17	8	50	6.6	11 deep 8
	50~100	66.5	117.5	50.5	66.5	117.5	50.5	15	20	64	M10×1.5	7	17	8	50	6.6	11 deep 8
63	5~50	58	109	42	68	119	52	15	20	77	M10×1.5	7	17	8	60	9	14 deep 10.5
	50~100	68	119	52	68	119	52	15	20	77	M10×1.5	7	17	8	60	9	14 deep 10.5
80	5~50	71	138	51	81	148	61	21	25	98	M16×2	6	22	10	77	11	17 deep 13.5
	50~100	81	148	61	81	148	61	21	25	98	M16×2	6	22	10	77	11	17 deep 13.5
100	5~50	84.5	147.5	60.5	94.5	157.5	70.5	27	32	117	M20×2.5	6.5	27	12	94	11	17 deep 13.5
	50~100	94.5	157.5	70.5	94.5	157.5	70.5	27	32	117	M20×2.5	6.5	27	12	94	11	17 deep 13.5

Bore/Symbol	P	Q	W	Z	B1	C1	H1	L1	MM	X	O1	R
32	1/8	10	49.5	14	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
40	1/8	13	57	15	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
50	1/4	13	71	19	27	26	11	33.5	M18×1.5	28.5	M8×1.25	14
63	1/4	Stroke 5mm: 14.5	84	19	27	26	11	33.5	M18×1.5	28.5	M10×1.5	18
		Stroke 10~50mm and 50~100mm: 16										
80	3/8	16	104	25	32	32.5	13	43.5	M22×1.5	35.5	M12×1.75	22
100	3/8	20	123.5	25	41	32.5	16	43.5	M26×1.5	35.5	M12×1.75	22

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

CQ2 Series Compact Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

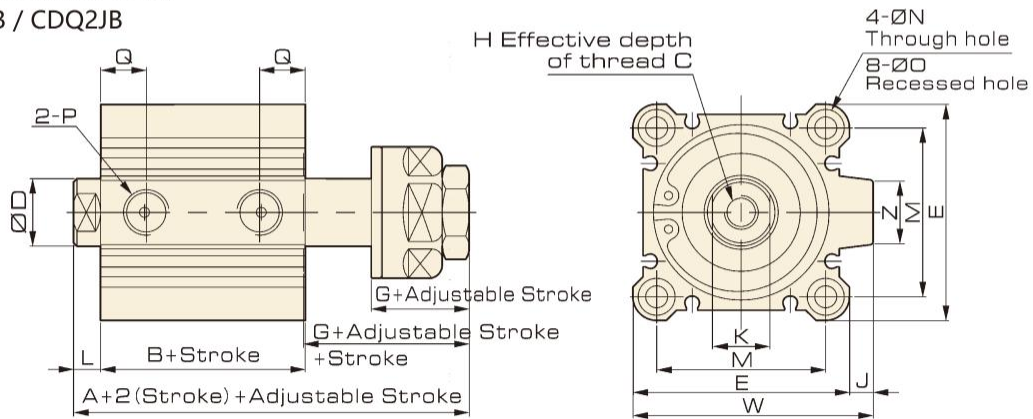
JSQB

Sensor

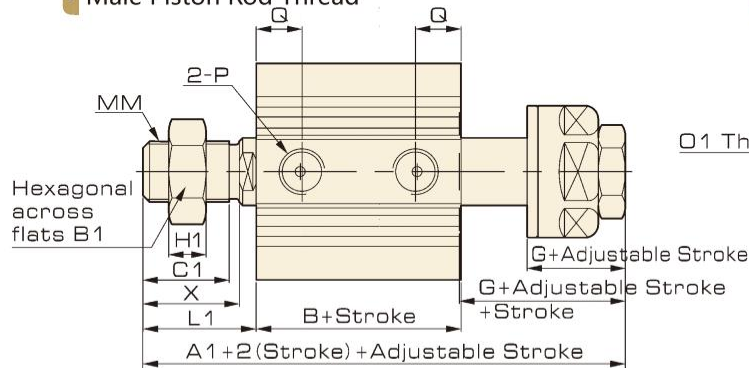
Overall Dimension

Ø32~Ø100 Without Magnet / With Magnet

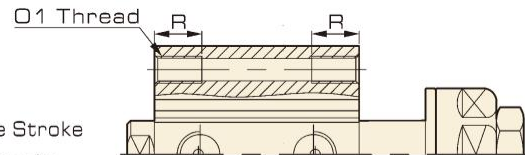
Standard (Thru Hole) CQ2JB / CDQ2JB



Male Piston Rod Thread



Both Ends Of Thread CQ2JA / CDQ2JA



Dimension

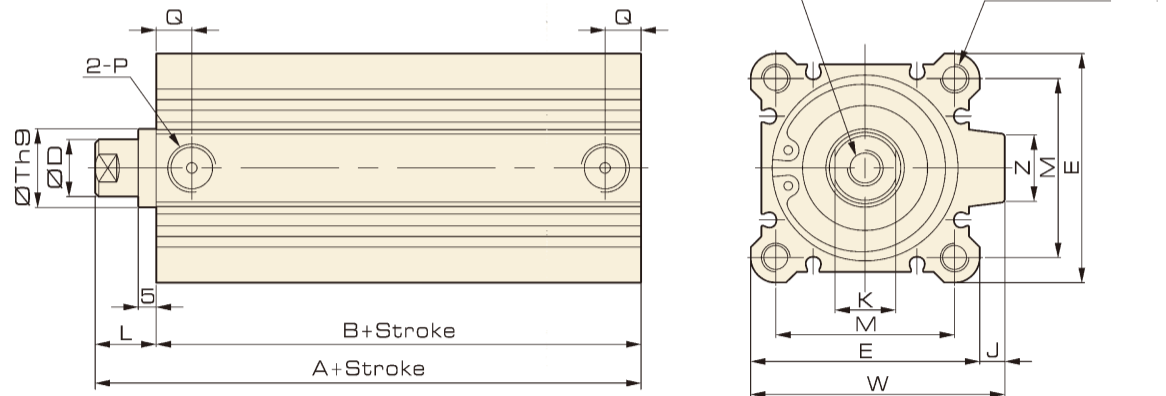
Bore/Symbol	Stroke Range (mm)	Without Magnet			With Magnet			C	D	E	G	H	J	K	L	M	N
		A	A1	B	A	A1	B										
32	5~50	65	86.5	30.5	75	96.5	40.5	13	16	45	28	M8×1.25	4.5	14	7	34	5.5
	50~100	75	96.5	40.5	84.5	106	50	13	16	52	28	M8×1.25	5	14	7	40	5.5
40	5~50	74.5	96	40	84.5	106	50	13	16	52	28	M8×1.25	5	14	7	40	5.5
	50~100	84.5	106	50	84.5	106	50	13	16	52	28	M8×1.25	5	14	7	40	5.5
50	5~50	77	102.5	40.5	87	112.5	50.5	15	20	64	29	M10×1.5	7	17	8	50	6.6
	50~100	87	112.5	50.5	87	112.5	50.5	15	20	64	29	M10×1.5	7	17	8	50	6.6
63	5~50	78.5	104	42	88.5	114	52	15	20	77	29	M10×1.5	7	17	8	60	9
	50~100	88.5	114	52	88.5	114	52	15	20	77	29	M10×1.5	7	17	8	60	9
80	5~50	96	129.5	51	106	139.5	61	21	25	98	35.5	M16×2	6	22	10	77	11
	50~100	106	139.5	61	106	139.5	61	21	25	98	35.5	M16×2	6	22	10	77	11
100	5~50	114.5	146	60.5	124.5	156	70.5	27	32	117	42.5	M20×2.5	6.5	27	12	94	11
	50~100	124.5	156	70.5	124.5	156	70.5	27	32	117	42.5	M20×2.5	6.5	27	12	94	11

Bore/Symbol	O	P	Q	W	Z	B1	C1	H1	L1	MM	X	O1	R
32	9 deep 7	1/8	10	49.5	14	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
40	9 deep 7	1/8	13	57	15	22	20.5	8	28.5	M14×1.5	23.5	M6×1	10
50	11 deep 8	1/4	13	71	19	27	26	11	33.5	M18×1.5	28.5	M8×1.25	14
63	14 deep 10.5	1/4	Stroke 5~50mm: 14.5 Stroke 50~100mm: 16	84	19	27	26	11	33.5	M18×1.5	28.5	M10×1.5	18
80	17 deep 13.5	3/8	16	104	25	32	32.5	13	43.5	M22×1.5	35.5	M12×1.75	22
100	17 deep 13.5	3/8	20	123.5	25	41	32.5	16	43.5	M26×1.5	35.5	M12×1.75	22

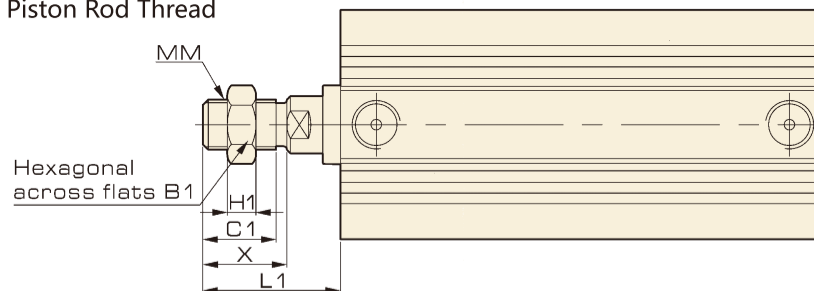
Overall Dimension

Ø32~Ø100 Without Magnet / With Magnet

Both Ends Of Thread CQ2A / CDQ2A



Male Piston Rod Thread



Dimension

Bore/Symbol	Stroke Range (mm)	A	B	C	D	E	H	J	K	L	M	P	Q
32	100~300	62.5	45.5	13	16	45	M8×1.25	4.5	14	17	34	1/8	12.5
40		72	55	13	16	52	M8×1.25	5	14	17	40	1/8	14
50		73.5	55.5	15	20	64	M10×1.5	7	17	18	50	1/4	14
63		75	57	15	20	77	M10×1.5	7	17	18	60	1/4	16.5
80		86	66	21	25	98	M16×2	6	22	20	77	3/8	19
100		97.5	75.5	27	32	117	M20×2.5	6.5	27	22	94	3/8	23
Bore/Symbol	W	Z	B1	C1	H1	L1	MM	X	O	R	Th9		
32	49.5	14	22	20.5	8	38.5	M14×1.5	23.5	M6×1	10	22 ⁰ _{-0.052}		
40	57	15	22	20.5	8	38.5	M14×1.5	23.5	M6×1	10	28 ⁰ _{-0.052}		
50	71	19	27	26	11	43.5	M18×1.5	28.5	M8×1.25	14	35 ⁰ _{-0.052}		
63	84	19	27	26	11	43.5	M18×1.5	28.5	M10×1.5	18	35 ⁰ _{-0.052}		
80	104	25	32	32.5	13	53.5	M22×1.5	35.5	M12×1.75	22	43 ⁰ _{-0.052}		
100	123.5	25	41	32.5	16	53.5	M26×1.5	35.5	M12×1.75	22	59 ⁰ _{-0.052}		

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

TCQ2 Series Guide Cylinder



Features

1. Front cover with DU bearing, good guiding performance and wear resistance.
2. The shaft sealing material used PU material, PU material has high strength, good toughness, wear resistance, oil resistance, aging resistance, etc.
3. Riveting technology for the piston rod and piston to improve concentricity.
4. There are two reverse bar positioning on each side to enhance the load capacity for smoother operation.
5. Reduced noise when running inside with rubber crash pad.

Ordering Code

T	C D Q2	C	32	x	30
┆	┆	┆	┆	┆	┆
Function Code	Inner Magnet	Mounting	Bore		Stroke
Thin type with guide cylinder	Blank: Without magnet D: With magnet	Counterbore with thread type	32 40 50 63 80 100		5-50 75, 100

* Sensor model JEL-07, please refer to P173 for the specific ordering code.

Specification

Bore (mm)	32	40	50	63	80	100
Operation	Double Acting					
Working Medium	Air					
Operating Pressure Range	0.1 ~ 1.0MPa					
Proof Pressure	1.5MPa					
Operating Temperature Range	-20 ~ 80°C					
Operating Speed Range	30 ~ 500mm/s	30 ~ 350mm/s		30 ~ 250mm/s		
Port Size	G1/8		G1/4		G3/8	

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

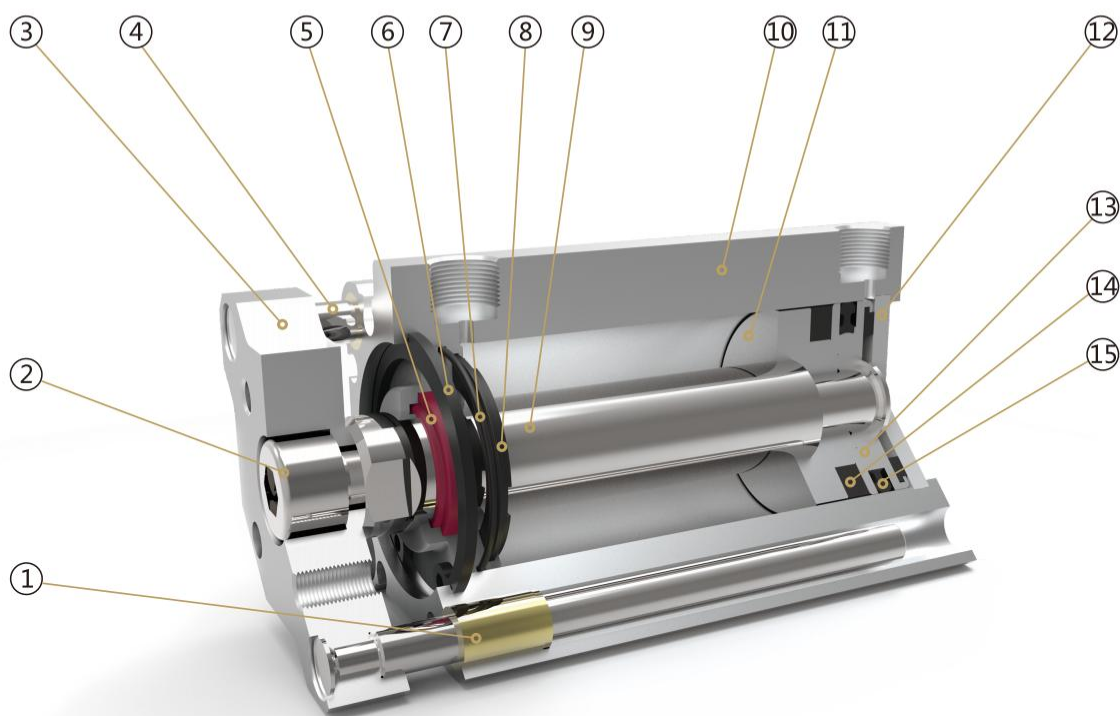
TN

JGP

JSQB

Sensor

Internal Structure



Parts

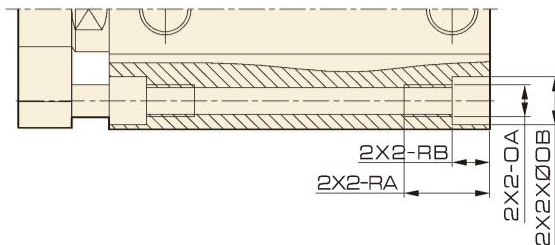
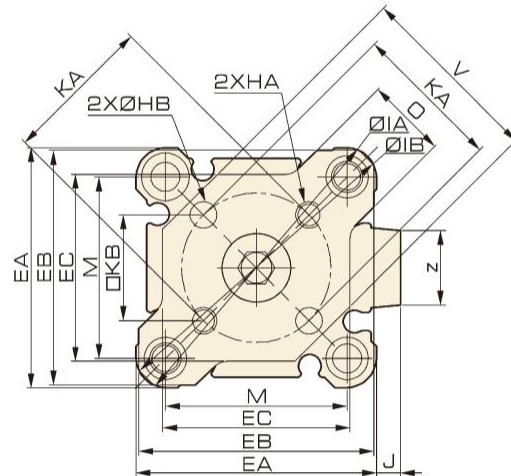
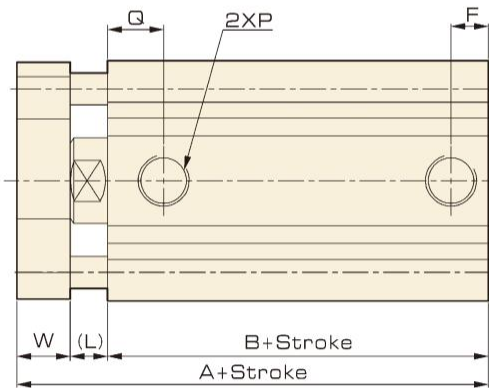
Number	Name	Number	Name
1	Copper tube	9	Piston rod
2	Socket head screw	10	Barrel
3	Fixed plate	11	Magnet base
4	Guide rod	12	Back cover
5	Dust ring	13	Piston
6	Circlips for holes	14	Magnet
7	O ring	15	C ring
8	Anti-collision gasket		

TCQ2 Series

Guide Cylinder



Overall Dimension



Dimension

Bore/ Symbol	Stroke Range (mm)	Without magnet							With magnet							EA	EB	EC
		A	B	F	Q	P			A	B	F	Q	P					
						—	IN	TF					—	IN	TF			
32	5	40	23	5.5	11.5	M5X0.8	—	—	50	33	7.5	10.5	G1/8	PT1/8	NPT1/8	45	44	35
	10-50			7.5	10.5	G1/8	PT1/8	NPT1/8										
	75、100	50	33	7.5	10.5	G1/8	PT1/8	NPT1/8	56.5	39.5	8	11	G1/8	PT1/8	NPT1/8	52	51.5	38
40	5-50	46.5	29.5	8	11	G1/8	PT1/8	NPT1/8	56.5	39.5	8	11	G1/8	PT1/8	NPT1/8	52	51.5	38
	75、100	56.5	39.5															
50	5-50	50.5	30.5	10.5	10.5	G1/4	PT1/4	NPT1/4	60.5	40.5	10.5	10.5	G1/4	PT1/4	NPT1/4	62	61	48.5
	75、100	60.5	40.5															
63	5-50	56	36	10.5	15	G1/4	PT1/4	NPT1/4	66	46	10.5	15	G1/4	PT1/4	NPT1/4	77	76	59
	75、100	66	46															
80	5-50	67.5	43.5	12.5	16	G3/8	PT3/8	NPT3/8	77.5	53.5	12.5	15	G3/8	PT3/8	NPT3/8	98	97	75
	75、100	77.5	53.5															
100	5-50	79	53	13	23	G3/8	PT3/8	NPT3/8	89	63	13	23	G3/8	PT3/8	NPT3/8	117	116	92.5
	75、100	89	63															

Bore/Symbol	HA	OA	HB	IA	IB	J	KA	KB	L	M	N	OB	RA	RB	V	W	Z	O
32	M5X0.8	M6X1.0	5 ^{+0.2} ₀	60	58.5	4.5	28±0.02	19.8	7	34	5.5	9	17	7	35	10	14	15
40	M5X0.8	M6X1.0	5 ^{+0.2} ₀	69	67.5	5	33±0.02	23.3	7	40	5.5	9	17	7	42	10	14	15
50	M6X1.0	M8X1.25	6 ^{+0.2} ₀	86	84.5	7	42±0.02	29.7	8	50	6.6	11	22	8	54.5	12	19	16
63	M6X1.0	M10X1.5	6 ^{+0.2} ₀	103	100	7	50±0.02	35.4	8	60	9	14	28.5	10.5	68	12	19	19
80	M8X1.25	M12X1.75	8 ^{+0.2} ₀	132	129	6	65±0.02	46	10	77	11	17.5	35.5	13.5	86	14	25	22
100	M10X1.5	M12X1.75	10 ^{+0.2} ₀	156	153	6.5	80±0.02	56.6	10	94	11	17	35.5	13.5	108	16	25	25



ADN32x30-S



ADN40x30-S



ADN50x30-S

Features

1. ADN series compact cylinder accord with ISO21287 standard.
2. ADN series cylinder with compact structure, derived lots of variety types, and wide range of applications.
3. Both end use rubber gasket to absorb the remaining energy of the high speed movement and the machine cycle.
4. Every assembly way has large number of accessories, so it is very sample.

Ordering Code

ADN	25	30	10	S	B	LB
Series	Bore	Stroke	Adjustable Stroke	Magnet	Thread Type	Mountings
ADN: Double acting	20	5-200mm	10: 10mm	S: With magnet	Blank: Female thread	Blank: Basic mountings
	25		20: 20mm	Blank: Without magnet		LB: Front and back mounting 
	32		30: 30mm			
	40		50: 50mm			
ADND: Double-shaft type	50		75: 75mm		B: Male thread 	FA: Front mounting flange 
	63		100: 100mm			FB: Back mounting flange 
	80					CA: Back clevis (Single earring) 
ADNJ: Double-shaft with adjustable stroke	100					CB: Back hinge (Double earring) 
						YB: Back hinge 

* Sensor model JEL-30, please refer to P173 for the specific ordering code.

Specification

Bore (mm)	20	25	32	40	50	63	80	100
Operation	Double Acting							
Working Medium	Air							
Operating Pressure Range	0.1 ~ 1.0MPa							
Proof Pressure	1.5MPa							
Operating Temperature Range	-20 ~ 80°C							
Operating Speed Range	30 ~ 500mm/s							
Port Size	M5x0.8			G1/8"				

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

ADN Series

New Compact Cylinder (ISO21287 Standard)



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

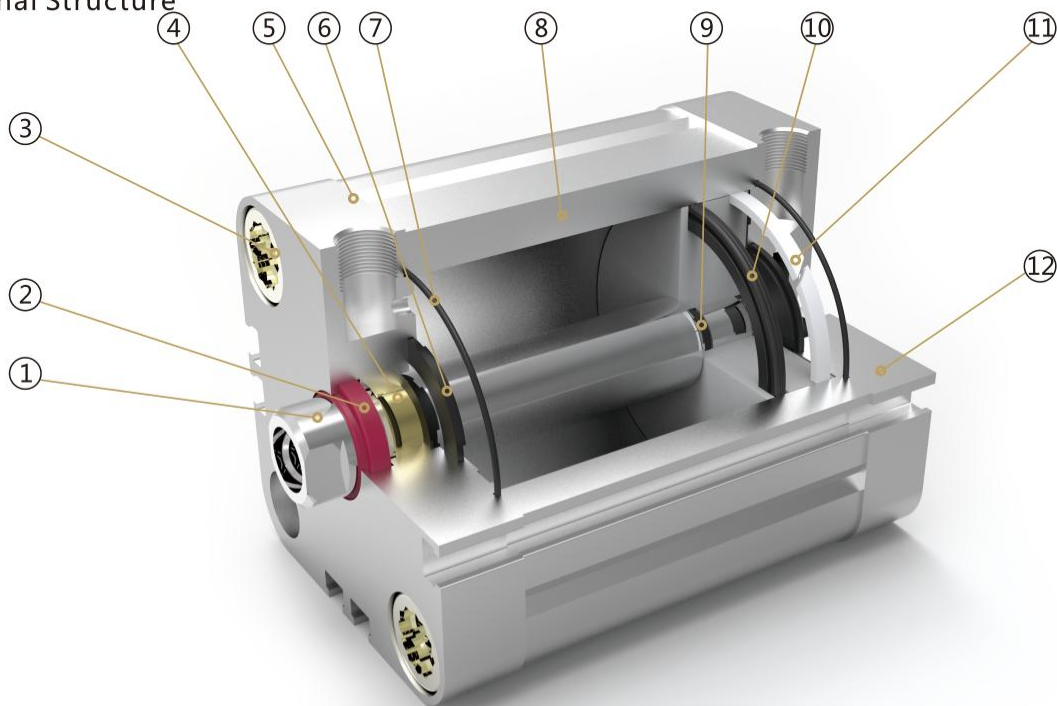
JSQB

Sensor

Stroke

Bore		Standard Stroke	Max. Stroke
ADN/ADNJ ADND	20	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100	100
	25	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 150	150
	32/40	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 150 160 175 200	200
	50/63	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 150 160 175 200 225 250	250
	80/100	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 150 160 175 200 225 250 275 300	300
TADN	20/25/32 40/50/63 80	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100	100

Internal Structure



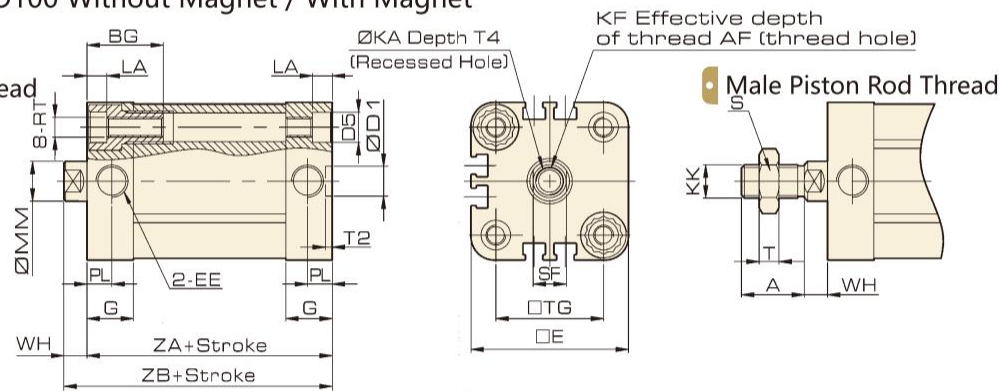
Parts

Number	Name	Number	Name
1	Piston rod	7	O ring
2	Shaft seal	8	Barrel
3	Cover screw	9	O ring
4	DU bearing	10	Piston seal
5	Front cover	11	Anti-friction seal
6	Anti-collision gasket	12	Back cover

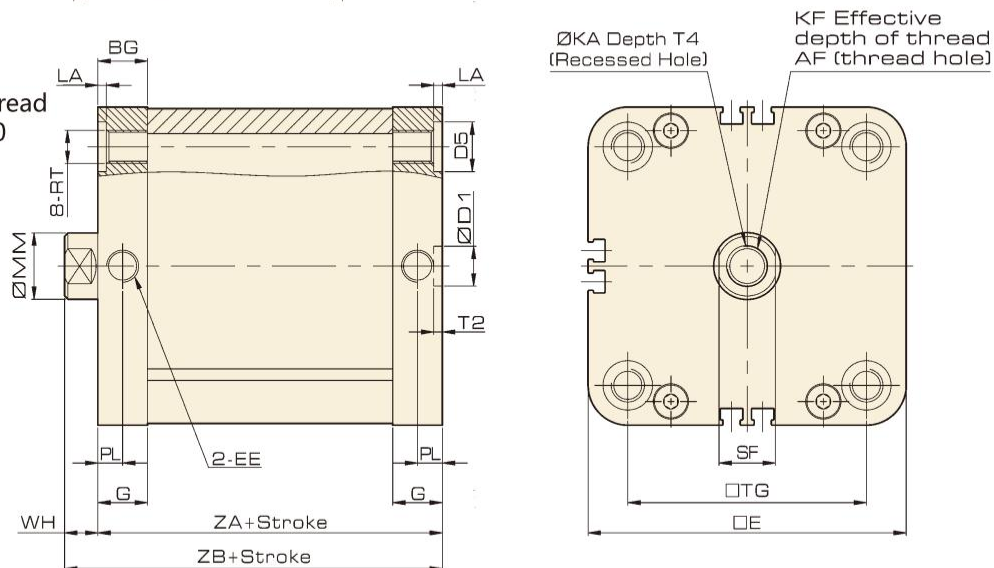
Overall Dimension

ADN Ø20~Ø100 Without Magnet / With Magnet

Standard Female Thread Ø20~Ø63



Standard Female Thread Ø80~Ø100



Dimension

Bore/Symbol	Stroke Range (mm)	A	AF	BG Min.	D1	D5	E	EE	G	KA	KF	KK	LA	
20	5~200	16	14	15	9	9	36	M5	10.5	6.5	M6×1	M8×1.25	5	
25							40		11					
32							47.5							
40		19	16	16	12	12	55	G1/8	14	8.5	M8×1.25	M10×1.25		
50							66							
63		22					78.3							
80			20	17	-	-	96		15	12.5	M10×1.5	M12×1.25		
100		28					116		21			-		

Bore/Symbol	MM	PL	RT	S	SF	T	T2	T4	TG	WH	ZA	ZB
20	10	5	M5×0.8	12	9	5	2.1	2.6	22	6	37	43
25									26		39	45
32	12	7.5	M6×1	17	10	6		3.3	32.5	7	44	51
40									38		45	52
50	16		M8×1.25		13	7	4.7	46.5	8	49	53	
63								56.5		54	57	
80			20	M10×1.5	23	17	8	6.1	72	10	54	64
100	89	67							77			

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

ADN Series

New Compact Cylinder (ISO21287 Standard)



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

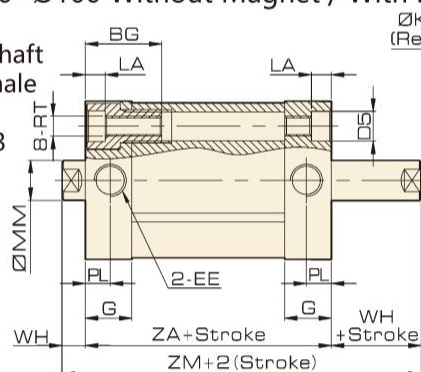
JSQB

Sensor

Overall Dimension

ADND Ø20~Ø100 Without Magnet / With Magnet

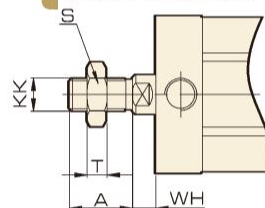
Double Shaft With Female Thread Ø20~Ø63



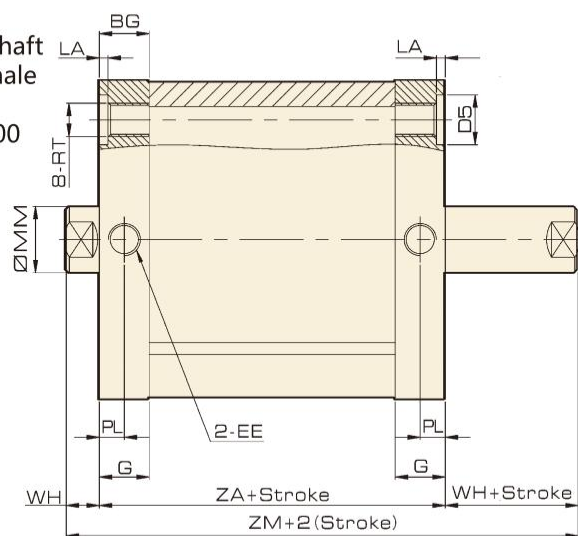
ØKA Depth T4 (Recessed Hole)

KF Effective depth of thread AF (thread hole)

Male Piston Rod Thread

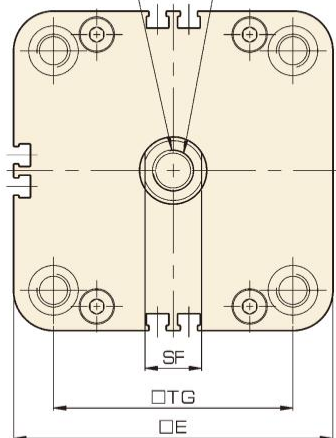


Double Shaft With Female Thread Ø80~Ø100



ØKA Depth T4 (Recessed Hole)

KF Effective depth of thread AF (thread hole)



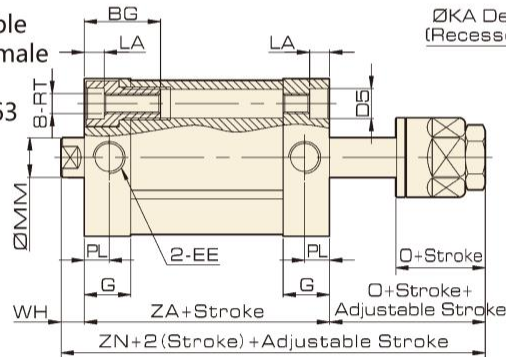
Dimension

Bore/Symbol	Stroke Range (mm)	A	AF	BG Min.	D5	E	EE	G	KA	KF	KK	LA
20	5~200	16	14	15	9	36	M5	10.5	6.5	M6×1	M8×1.25	5
25		19	16	16		12		40				
32								47.5	14	8.5	M8×1.25	
40					55		G1/8	10.5				
50		66	15	12.5	M12×1.75	M16×1.5						
63		78.3						21				
80		96										
100		116										
Bore/Symbol	MM	PL	RT	S	SF	T	T4	TG	WH	ZA	ZM	
20	10	5	M5×0.8	12	9	5	2.6	22	6	37	43	
25								26		39	45	
32	12	7.5	M6×1	17	10	6	3.3	32.5	7	44	58	
40								38		45	59	
50	16		M8×1.25		13	7	4.7	46.5	61			
63								56.5	49	65		
80	20		M10×1.5	23	17	8	6.1	72	54	74		
100								89	67	87		

Overall Dimension

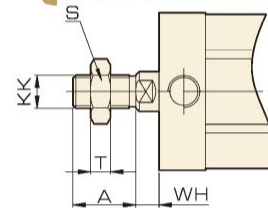
ADNJ Ø20~Ø100 Without Magnet / With Magnet

Adjustable With Female Thread Ø20~Ø63

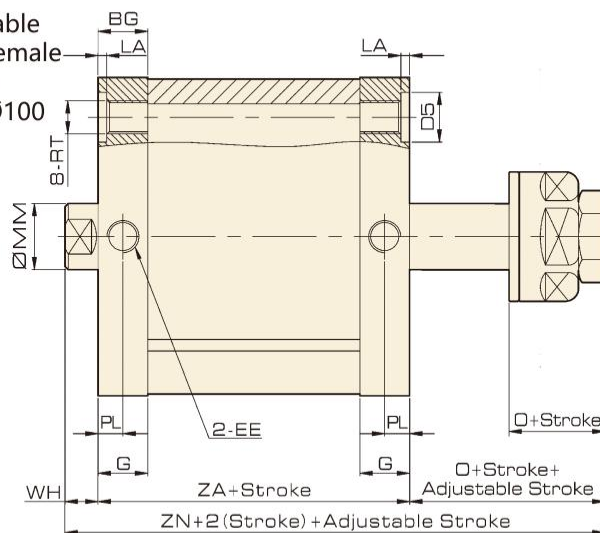


KF Effective depth of thread AF (thread hole)

Male Piston Rod Thread

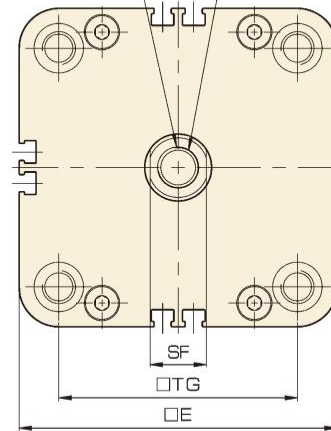


Adjustable With Female Thread Ø80~Ø100



ØKA Depth T4 (Recessed Hole)

KF Effective depth of thread AF (thread hole)



Dimension

Bore/Symbol	Stroke Range (mm)	A	AF	BG Min.	D5	E	EE	G	KA	KF	KK	LA
20	5~200	16	14	15	9	36	M5	10.5	6.5	M6×1	M8×1.25	5
25						40		11				
32		19	16	16		47.5		14	8.5	M8×1.25	M10×1.25	
40					55							
50		22	20		66	10.5	M10×1.5		M12×1.25			
63				78.3								
80		28		17	-	96	15	12.5	M12×1.75	M16×1.5		
100					116	21				-		

Bore/Symbol	MM	O	PL	RT	S	SF	T	T4	TG	WH	ZA	ZN	
20	10	19	5	M5×0.8	12	9	5	2.6	22	6	37	62	
25									26		39	64	
32				12					27		7.5	M6×1	17
40			M8×1.25	13	7	4.7	46.5	8	45	79			
50	16	28		56.5	49	81							
63	20	29		M10×1.5	23	17	8	6.1	72	10	54	93	
80											89	67	96
100													

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

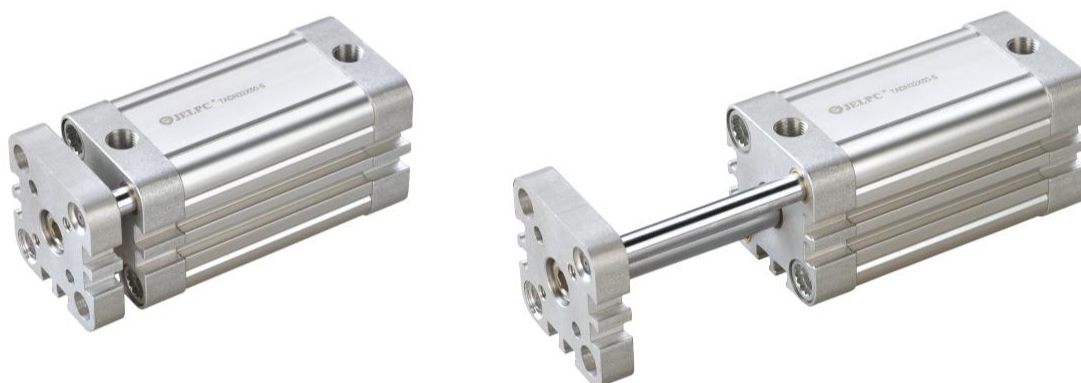
JGP

JSQB

Sensor

TADN Series

Guide Cylinder



Features

1. TADN series compact cylinder accord with ISO21287 standard.
2. TADN series cylinder with compact structure, derived lots of variety types, and wide range of applications.
3. Both end use rubber gasket to absorb the remaining energy of the high speed movement and the machine cycle.
4. Every ammseby way has large number of accessories, so it is very simple.
5. There are two reverse bar positioning on each side to enhance the load capacity for smoother operation.

Ordering Code

TADN	25	x	30	-	S
Series	Bore		Stroke		Magnet
TADN: Double acting type guide	20				Blank: Without magnet
	25				S: With magnet
	32				
	40				
	50				
	63				
	80				
	100				

* Sensor model JEL-30, please refer to P173 for the specific ordering code.

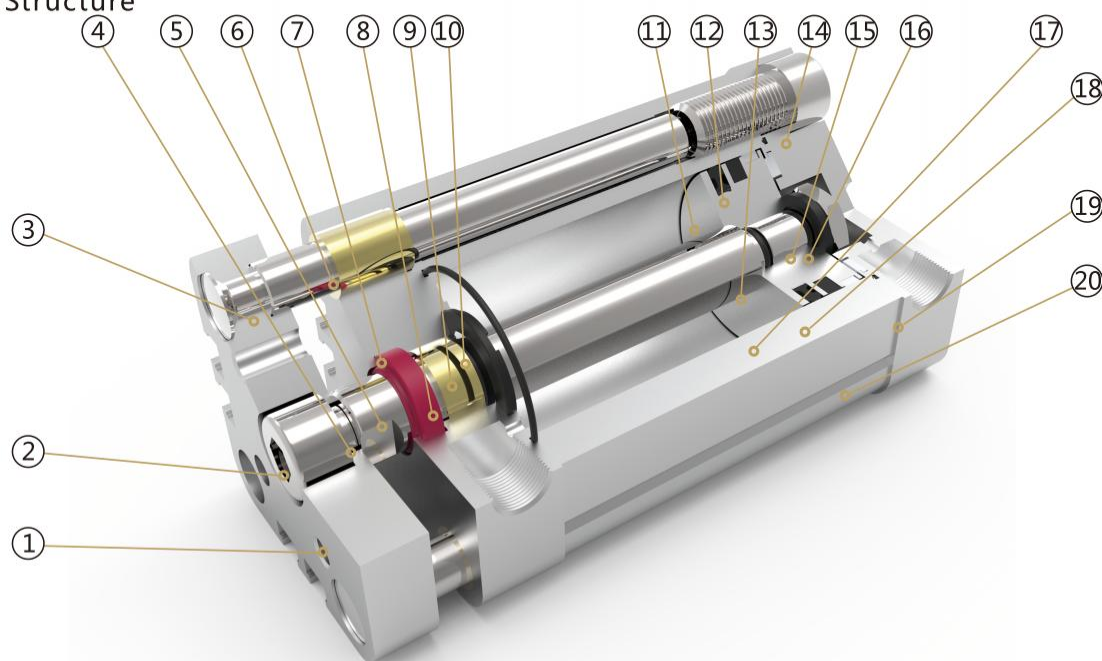
Specification

Bore (mm)	20	25	32	40	50	63	80	100
Operation	Double Acting							
Working Medium	Air							
Standard Stroke	5 ~ 100mm							
Operating Pressure Range	0.1 ~ 1.0MPa							
Proof Pressure	1.5MPa							
Operating Temperature Range	-20 ~ 80°C							
Operating Speed Range	30 ~ 500mm/s							
Port Size	M5x0.8				G1/8			

Stroke

Bore		Standard Stroke																				Max. Stroke
ADN/ADNJ ADND	20	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100																				100
	25	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 150																				150
	32/40	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 150 160 175 200																				200
	50/63	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 150 160 175 200 225 250																				250
	80/100	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 150 160 175 200 225 250 275 300																				300
TADN	20/25/32 40/50/63 80	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100																				100

Internal Structure



Parts

Number	Name	Number	Name
1	Fixed plate	11	C ring
2	Socket head screw	12	Anti-friction seal
3	Guide rod	13	O ring
4	Piston rod	14	Cover screw
5	Dust ring	15	Small gasket
6	Copper tube	16	Hexagon nut
7	Front cover	17	Piston
8	Bearing	18	Magnet
9	Anti-collision gasket	19	Back cover
10	O ring	20	Barrel

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

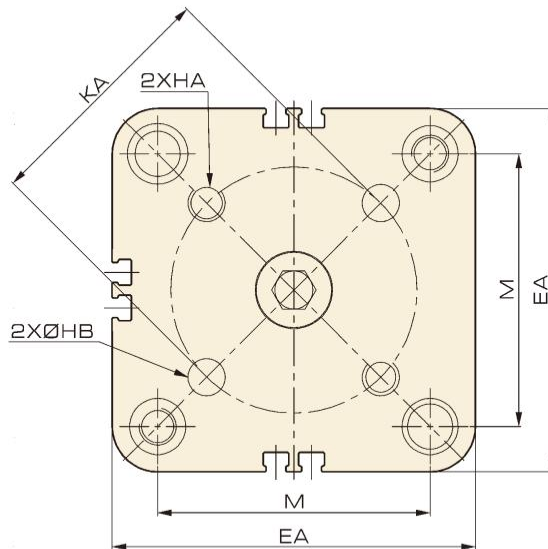
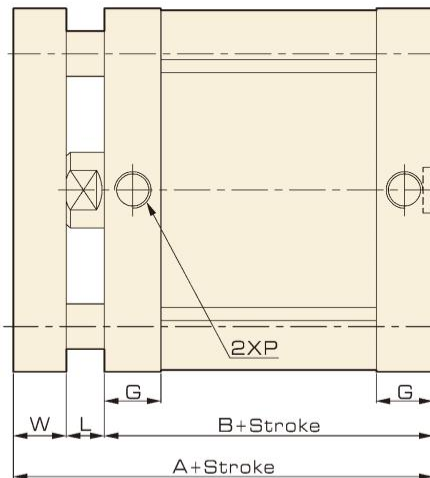
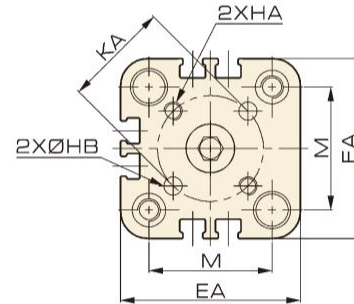
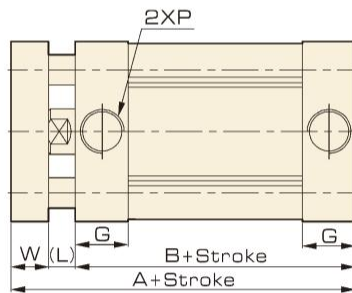
JSQB

Sensor

TADN Series Guide Cylinder



Overall Dimension



Dimension

Bore Symbol	Stroke Range (mm)	With Magnet					EA	M	HA	HB	KA	L	W
		A	B	P									
				—	IN	TF							
20	5-100	51	37	M5X0.8			36	22	M4X0.7	4 ^{+0.2 0}	17±0.02	6	8
25	5-100	53	39	M5X0.8			40	26	M5X0.8	5 ^{+0.2 0}	22±0.02	6	8
32	5-100	61	44	G1/8	PT1/8	NPT1/8	47.5	32.5	M5X0.8	5 ^{+0.2 0}	28±0.02	7	10
40	5-100	62	45	G1/8	PT1/8	NPT1/8	55	38	M5X0.8	5 ^{+0.2 0}	33±0.02	7	10
50	5-100	65	45	G1/8	PT1/8	NPT1/8	66	46.5	M6X1.0	6 ^{+0.2 0}	42±0.02	8	12
63	5-100	69	49	G1/8	PT1/8	NPT1/8	78.3	56.5	M6X1.0	6 ^{+0.2 0}	50±0.02	8	12
80	5-100	78	54	G1/8	PT1/8	NPT1/8	96	72	M8X1.25	8 ^{+0.2 0}	65±0.02	10	14
100	5-100	91	67	G1/8	PT1/8	NPT1/8	116	89	M10X1.5	10 ^{+0.2 0}	80±0.02	10	14



Features

1. Rotation angle 90+.
2. The cylinder stretched out the double force, effectively increase the cylinder output requirements.
3. The new power connection mechanism reduces the connecting pipe.
4. The front piston shaft hole is pressed with an engineering plastic bearing, which can effectively reduce the friction between the shaft and the shaft hole.
5. Piston seals adopt special composite materials to provide a longer service life when the cylinder expectancy of the load.
6. The connecting plate adopts a stainless steel screw sleeve, which can effectively increase the service life of the screw hole.

Ordering Code

PPRM	32	WL	MT
Specification	Bore	Type	Sensor
PPRM: Elbow cylinder	32 40 50	Blank: Without Lock WL: With Lock	KT-07DH 
* Standard wire length is 1 meter, please specify for other length			

Specification

Model	PPRM-32WL	PPRM-40WL	PPRM-50WL
Port Size	M5×0.8		
Working Medium	40 Micron Filtered Air		
Operating Pressure	0.2~0.8MPa		
Max. Test Pressure	20MPa		
Operating Temperature	-20~80℃		
Rotation Angle	90°		
Adjustable Angle	±2°	±4°	±3°
When The Pressure 0.6 Mpa, The Torque Of The Cylinder	> 9.5Nm	> 24Nm	> 45Nm
Weight	500g	1050g	1635g

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

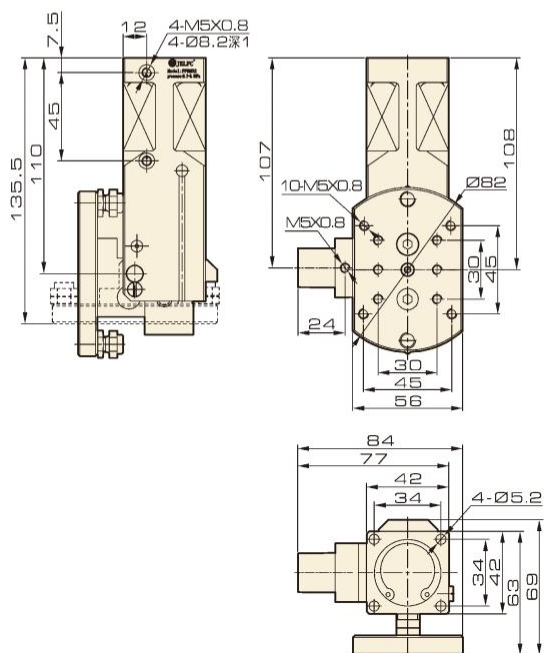
Sensor

This diagram shows an exploded view of a mechanical assembly, likely a pump or motor component. The assembly is composed of several main parts, including a housing, a central shaft, and a base. The components are numbered 1 through 20, indicating their relative positions and assembly sequence. The housing is shown in a cutaway view to reveal internal features. The central shaft is supported by bearings and seals. The base is a mounting plate with a central hole and several smaller holes. The exploded view shows the relationship between the housing, the shaft, and the base, as well as the placement of various seals, bearings, and fasteners.

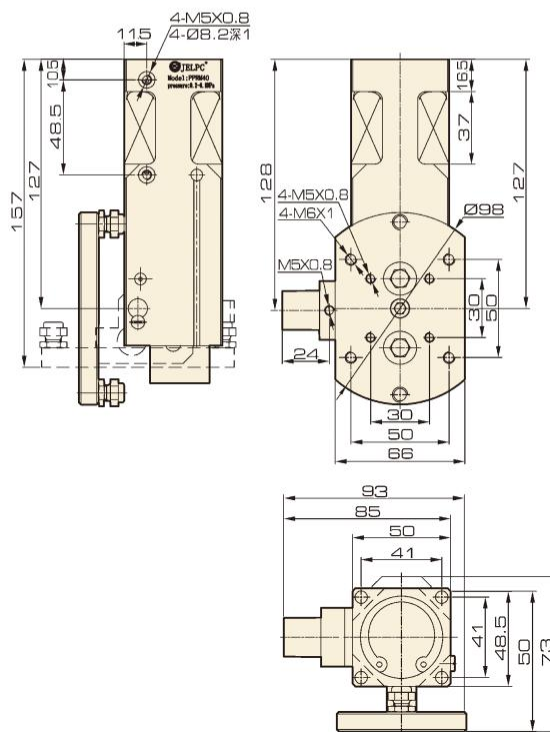
Number	Name	Number	Name	Number	Name
1	Back cover	8	Bearing	15	Long pin
2	Circlips for holes	9	Lock	16	Connecting base
3	O ring	10	Socket head cap screw	17	Spacer
4	Small piston	11	Barrel	18	Anti-collision gasket
5	C ring	12	Y ring	19	Anti-collision screw
6	Piston rod	13	Magnet	20	Connecting plate
7	Big piston	14	Pin		

Overall Dimension

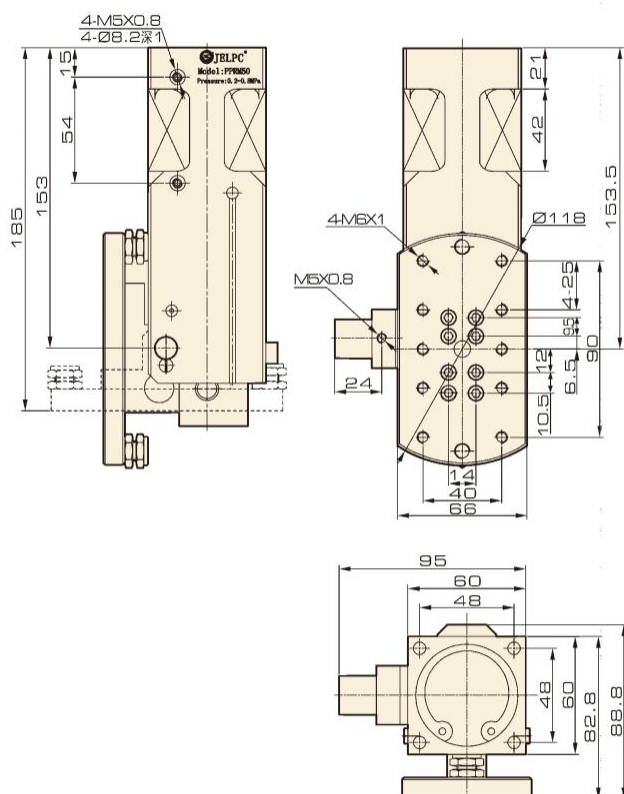
PPRM-32WL



PPRM-40WL



PPRM-50WL



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

PPRM Series Elbow Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

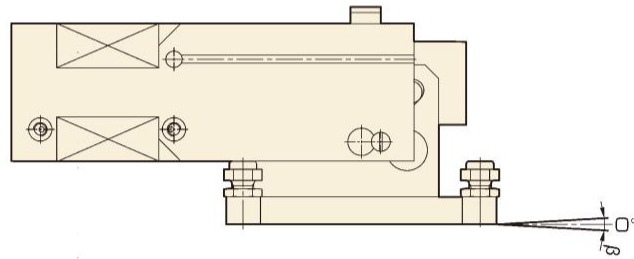
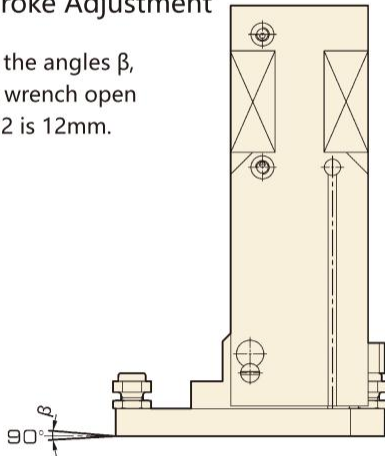
JGP

JSQB

Sensor

End Stroke Adjustment

Adjusts the angles β ,
Use the wrench open
CH1 CH2 is 12mm.



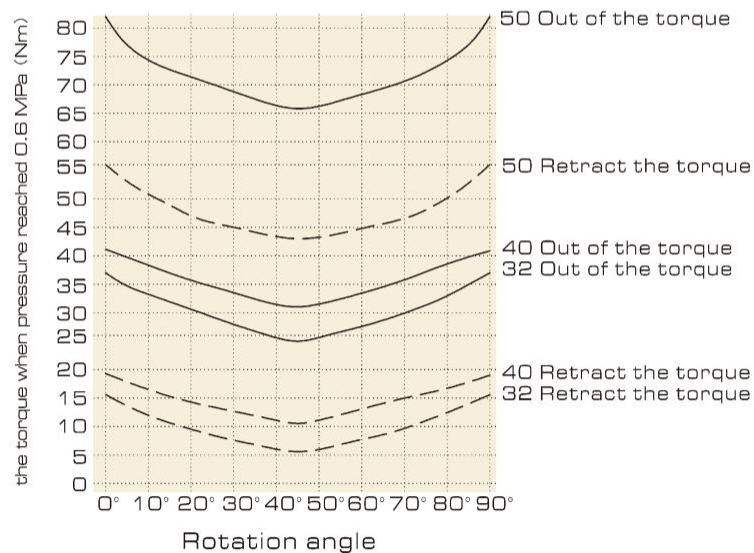
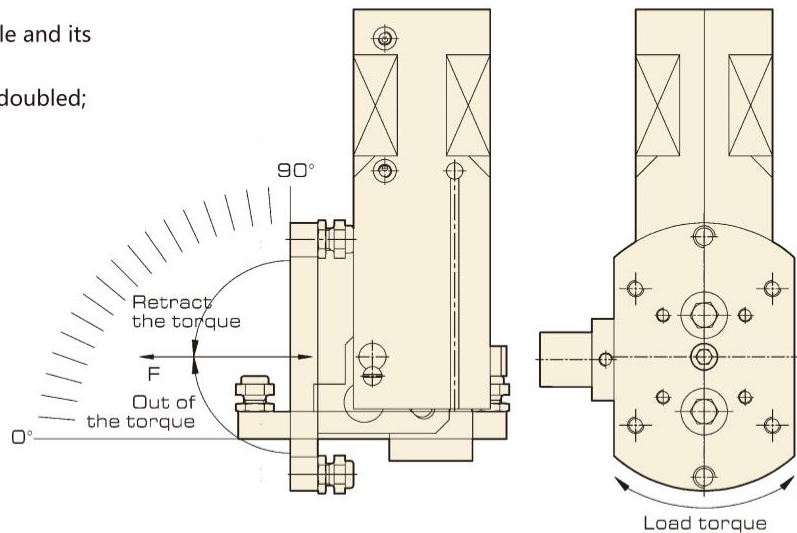
Torque And Safety Load

Torque depends on the rotation Angle and its
maximum value between 0 ° to 90 °;
From 90 to 0 double torque, output doubled;
Torque decreases from 0 to 90.

Maximum load force (F)

Maximum load torque (Mf)

	PPRM -32WL	PPRM -40WL	PPRM -50WL
Mf	4Nm	7Nm	10Nm
F	1000N	1000N	1000N



Features

1. Long stroke, suitable for bulky objects.
2. Double piston rod design to increase the holding force.
3. Gear rod operation to make finger open and close synchronously.
4. A scraper with a dust lip is adopted for all rod rotating parts.
5. Many options for different working conditions.



Specification

Bore size	10	16	20	25	32	40
Operation	Double Acting					
Working Medium	Air					
Max.operating Pressure	0.6{6.1}					
Min.operating Pressure	0.15{1.5}	0.1{1.0}				
Ambient And Fluid Temperature	-10-60°C with no (condensation)					
Repeatability	±0.1					
Holding Power	14{1.4}	45{4.6}	74{7.5}	131{13.4}	228{23.4}	396{40.4}
Port Size	M5×0.8				1/8	

[Note] Under the pressure of 0.5MPa and the holding point 40mm(Ø10~Ø25),80mm(Ø32/Ø40)

Ordering Code



1 Bore Size	2 Opening/Closing Stroke	3 Gripper Type	4 Load Capacity
Ø10	Nil	Short stroke	N/A Standard
Ø16			
Ø20	1	Short stroke	N/A Standard
Ø25			
Ø32	2	Short stroke	B Side gripping
Ø40			A Sleeve extension

[Note] Sensor model please refer to P173 for the specific ordering code.

[Note] Extended bearing type has same installation size with the standard type. Extended shaft sleeve has stronger load capacity but no dustproof function.

Stroke/Weight Table

Model	Bore Size (mm)	Max.Operating Frequency(c.p.m)	Opening/ Closing Stroke(mm) (L2-L1)	Closing Width(mm)(L1)	Opening Width(mm)(L2)	Weight(g)
JHL2-10D□-□	10	60	20	56	76	280
JHL2-10D1□-□		40	40	78	118	345
JHL2-10D2□-□		40	40	96	156	425
JHL2-16D□-□	16	60	30	68	98	585
JHL2-16D1□-□		40	60	110	170	795
JHL2-16D2□-□		40	80	130	210	935
JHL2-20D□-□	20	60	40	82	122	1025
JHL2-20D1□-□		40	80	142	222	1495
JHL2-20D2□-□		40	100	162	262	1690
JHL2-25D□-□	25	60	50	100	150	1690
JHL2-25D1□-□		40	100	182	282	2560
JHL2-25D2□-□		40	120	200	320	2775
JHL2-32D□-□	32	30	70	150	220	2905
JHL2-32D1□-□		20	120	198	318	3820
JHL2-32D2□-□		20	160	242	402	4655
JHL2-40D□-□	40	30	100	188	288	5270
JHL2-40D1□-□		20	160	246	406	6830
JHL2-40D2□-□		20	200	286	486	7905

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JHL2 Series

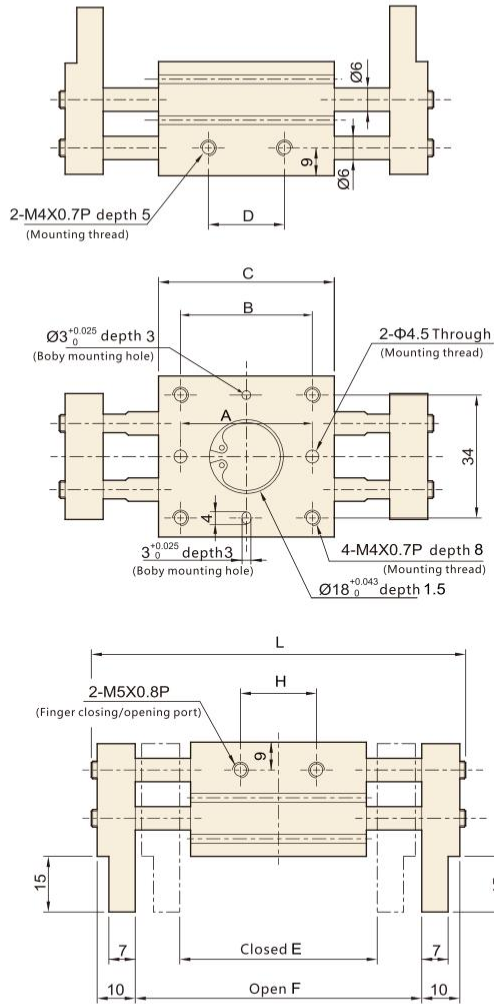
Cylinder element



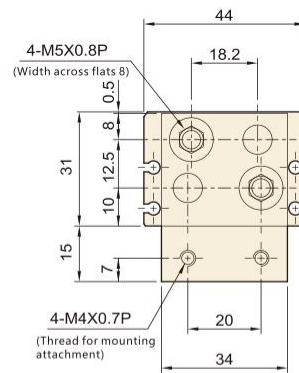
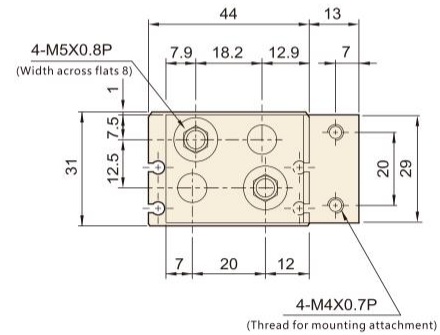
Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Overall Dimension

JHL2-10D □□-□



JHL2-10D □B-□ (Side Clamping Of Gripper Type)

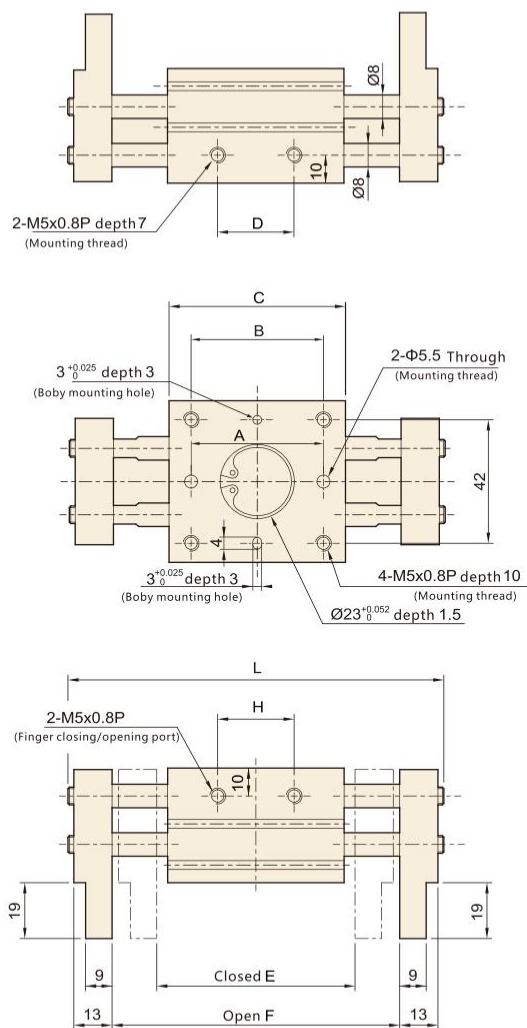


Dimension

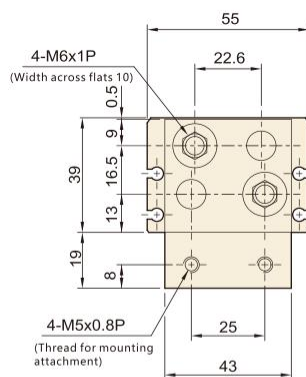
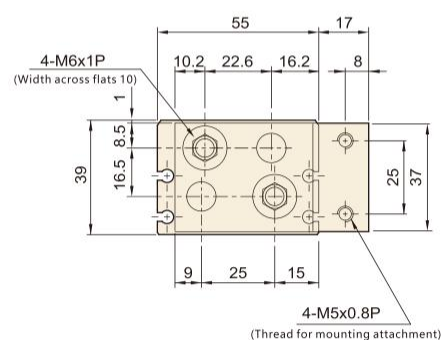
Model	A	B	C	D	L	E	F	H
JHL2-10D □□-□	38	36	51	26	100(80)	56	76	20
JHL2-10D1 □□-□	72	70	85	60	180(146)	96	156	50
JHL2-10D2 □□-□	54	52	67	42	142(108)	78	118	32

Overall Dimension

JHL2-16D □□-□



JHL2-16D □B-□ (Side Clamping Of Gripper Type)



Dimension

Model	A	B	C	D	L	E	F	H
JHL2-16D □□-□	40	45	60	28	128(98)	68	98	23
JHL2-16D1 □□-□	70	75	90	58	200(152)	110	170	41
JHL2-16D2 □□-□	90	95	110	78	240(192)	130	210	61

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JHL2 Series

Cylinder element



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

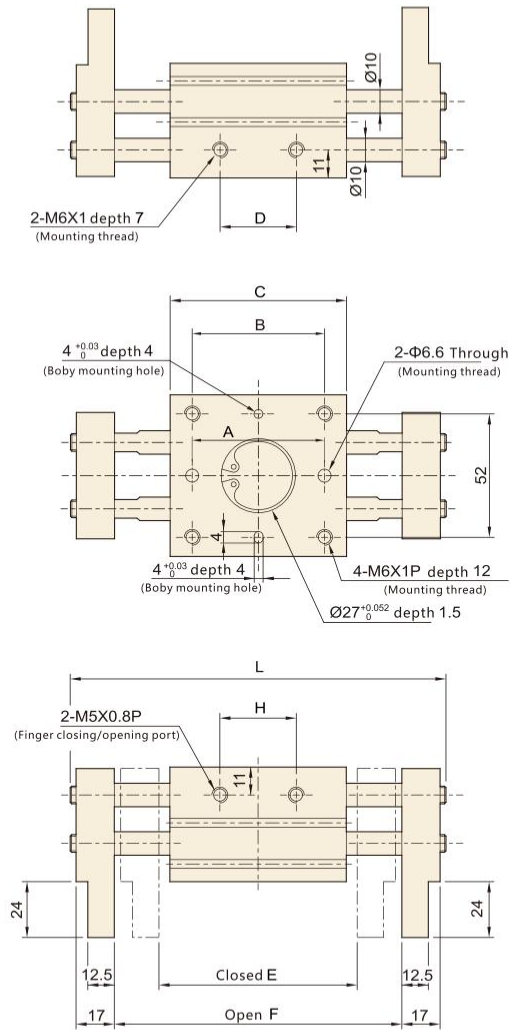
JGP

JSQB

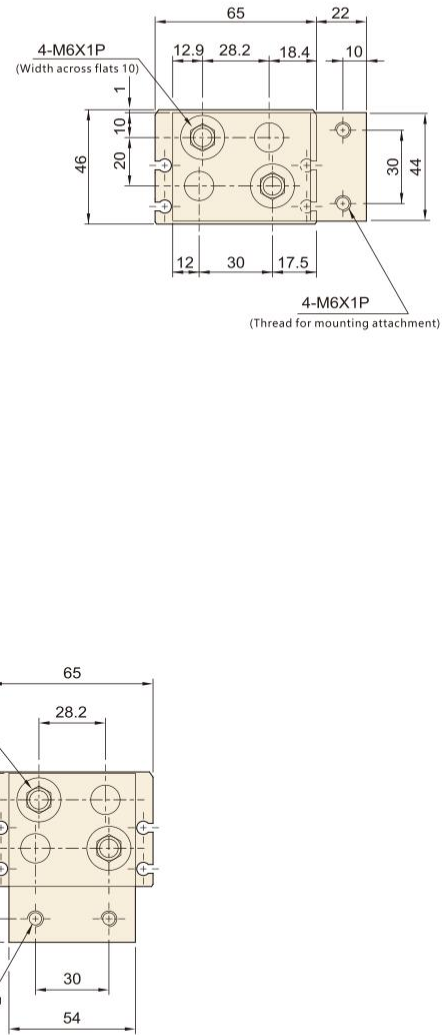
Sensor

Overall Dimension

JHL2-20D □□-□



JHL2-20D □B-□ (Side Clamping Of Gripper Type)

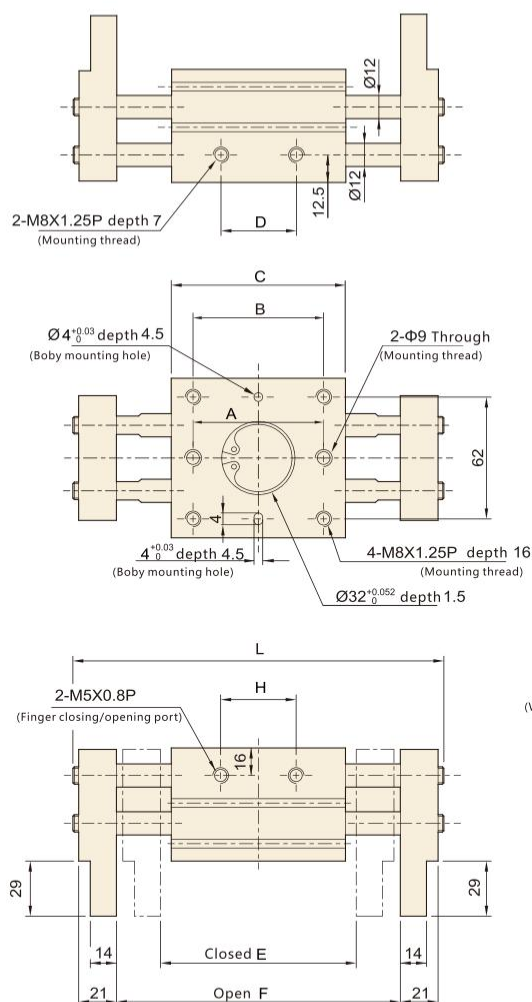


Dimension

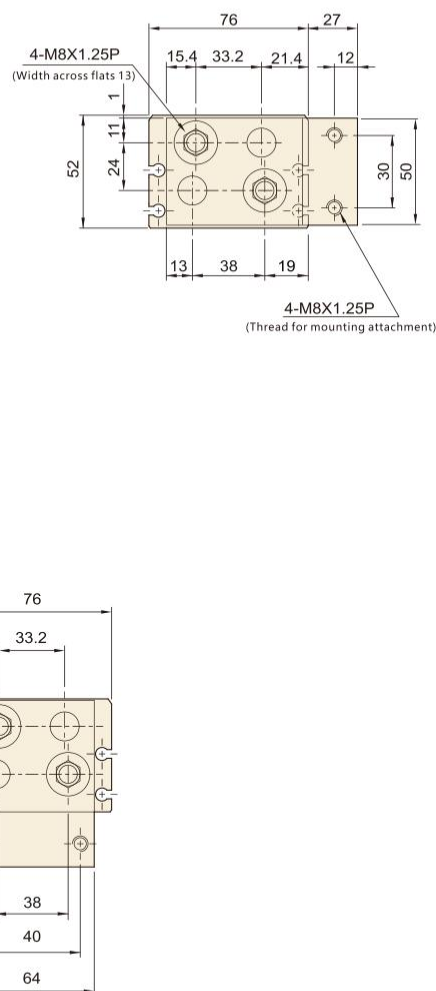
Model	A	B	C	D	L	E	F	H
JHL2-20D □□-□	54	58	71	38	160(120)	82	122	32
JHL2-20D1 □□-□	96	100	113	80	260(195)	142	222	60
JHL2-20D2 □□-□	116	120	133	100	300(235)	162	262	80

Overall Dimension

JHL2-25D □□-□



JHL2-25D □B-□ (Side Clamping Of Gripper Type)



Dimension

Model	A	B	C	D	L	E	F	H
JHL2-25D □□-□	66	70	88	48	196(146)	100	150	38
JHL2-25D1 □□-□	120	124	142	102	328(244)	182	282	76
JHL2-25D2 □□-□	138	142	160	120	366(282)	200	320	94

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JHL2 Series

Cylinder element



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

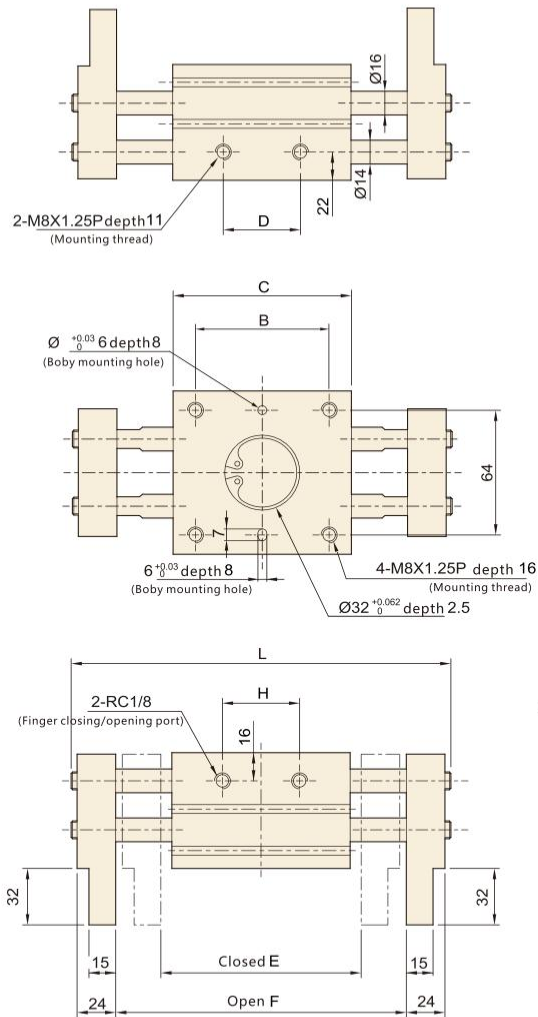
JGP

JSQB

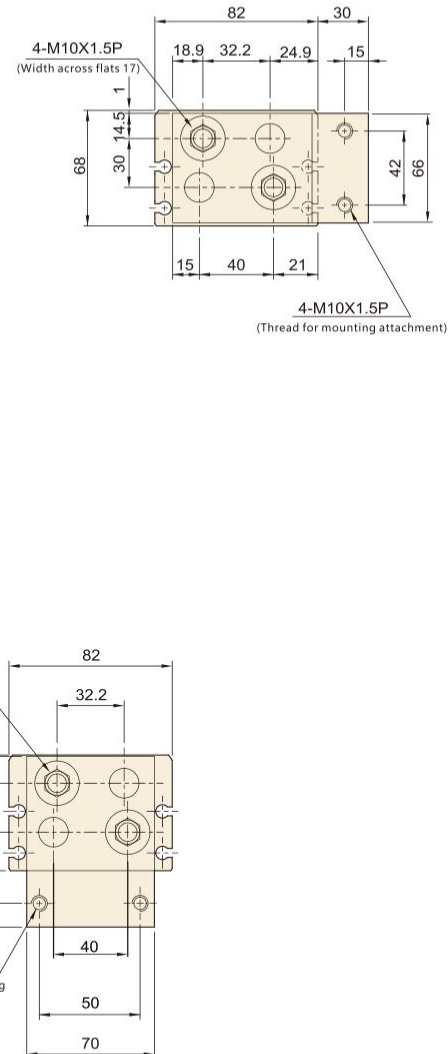
Sensor

Overall Dimension

JHL2-32D □□-□



JHL2-32D □□B-□ (Side Clamping Of Gripper Type)

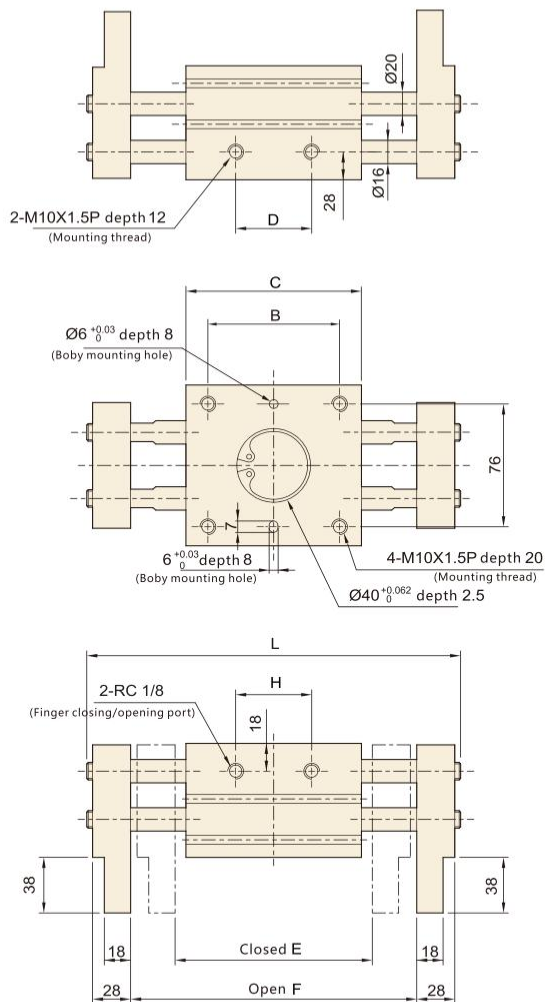


Dimension

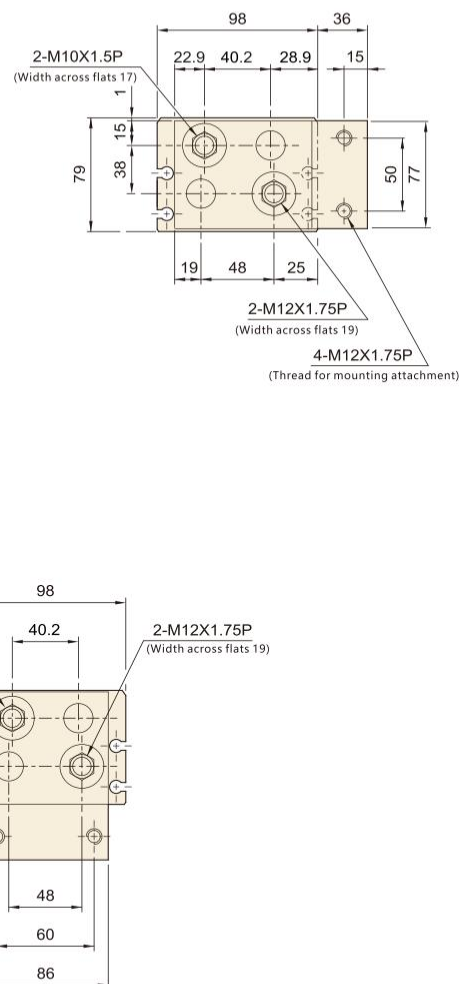
Model	A	B	C	D	L	E	F
JHL2-32D □□-□	86	110	60	48	272(202)	150	220
JHL2-32D1 □□-□	134	158	108	76	370(282)	198	318
JHL2-32D2 □□-□	178	202	152	120	454(366)	242	402

Overall Dimension

JHL2-40D □□-□



JHL2-40D □B-□ (Side Clamping Of Gripper Type)



Dimension

Model	A	B	C	D	L	E	F
JHL2-40D □□-□	116	148	80	70	348(252)	188	288
JHL2-40D1 □□-□	174	206	138	108	466(370)	246	406
JHL2-40D2 □□-□	214	246	178	148	546(450)	286	486

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JHF2 Series

Compact Air Gripper



JHF2 Series (Ø8~Ø25)

Specification

Bore Size(mm)			8	12	16	20	25
Operation			Double Acting				
Working Medium			Air				
Operating Pressure Range(Mpa)			0.15~0.7		0.1~0.7		
Ambient And Fluid Temperature			-10~60°C(with no condensation)				
Repeatability(mm)			±0.05*				
Max. Operating Frequency(c.p.m)			Short stroke、Medium stroke:120 Long stroke:60				
Sensor Model	Contactless	2-Wire	JEL-07D				
		3-Wire NPN	JEL-07N				

*[Note] When cylinder side mount and not full stroke used,the minmun operating pressure can' t be less than 0.4Mpa

Ordering Code



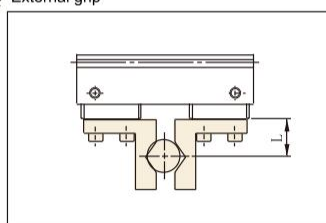
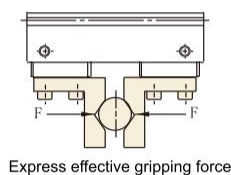
1 2/π	2 Bore Size	3 Double Acting	4 Stroke		5 Boby Option	
2/π	Bore size	Double acting	Nil	Short stroke	Boby option	
			1	Medium stroke	Nil	Axial piping type
			2	Long stroke	R	Side piping type

[Note] Sensor model please refer to P173 for the specific ordering code.

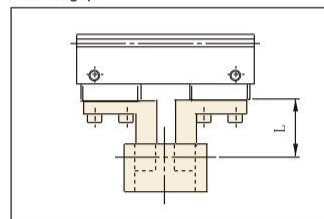
Operation	Model	Bore Size (mm)	Gripping Force Effective Gripping Force Per Finger	Opening/Closing Stroke (Both Sides) (mm)	Weight	Unobstructe Capacity (cm ³)	
						Finger Open Side	Finger Close Side
Difunctional	JHF2-8D	8	19	8	65	0.7	0.6
	JHF2-8D1			16	85	1.1	1.0
	JHF2-8D2			32	120	2.0	1.9
	JHF2-12D	12	48	12	155	1.9	1.6
	JHF2-12D1			24	190	3.3	3.0
	JHF2-12D2			48	275	6.1	5.8
	JHF2-16D	16	90	16	350	4.9	4.1
	JHF2-16D1			32	445	8.2	7.4
	JHF2-16D2			64	650	14.9	14.0
	JHF2-20D	20	141	20	645	8.47	7.3
	JHF2-20D1			40	850	15.1	13.7
	JHF2-20D2			80	1225	28.0	26.6
	JHF2-25D	25	236	60	1650	30.0	27.3

*[Note] At the pressure of 0.5MPawhen gripping point L is 20mm.

Effective Gripping Force



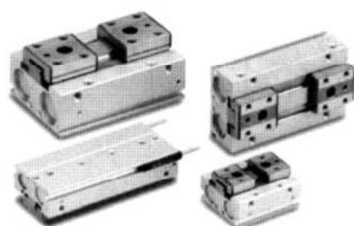
Internal grip



Specifications/ Model Bore

Model	Bore Size (mm)	Operation	Fuild	Operating Pressure RangeMpa (Mpa)	Ambient And Fluid Temperature (°C)	Repeatability (mm)	Max. Operating Frequency (c.p.m)	Gripping Force (N)	Opening/ Closing Stroke (mm)	Sensor Model
JHF2-8D	8	Double acting	Air	0.15~0.7	-10~60 (with no condensation)	±0.05	120	19	8	JEL-07D
JHF2-8D1							120		16	
JHF2-8D2							60		32	
JHF2-12D	12			0.1~0.7			120	48	12	
JHF2-12D1							120		24	
JHF2-12D2							60		48	
JHF2-16D	16						120	90	16	
JHF2-16D1							120		32	
JHF2-16D2							60		64	
JHF2-20D	20						120	141	20	
JHF2-20D1							120		40	
JHF2-20D2							60		80	
JHF2-25D	25			120			236	60		

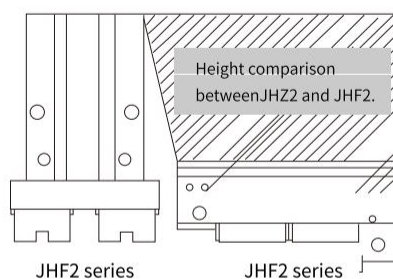
[Note] At the pressure of 0.5MPa when gripping point L is 10mm.



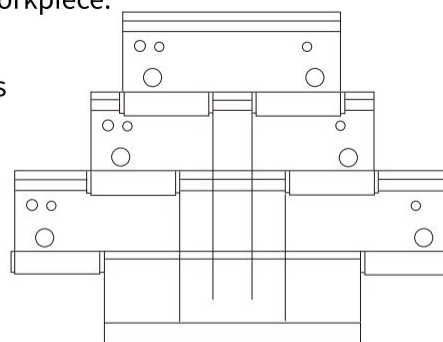
- Space-saving design.
- Strong gripping force.
- Centralized wiring and piping.
- Three standard stroke lengths: short/medium/long.

[Note] JHF2-25D only have short stroke

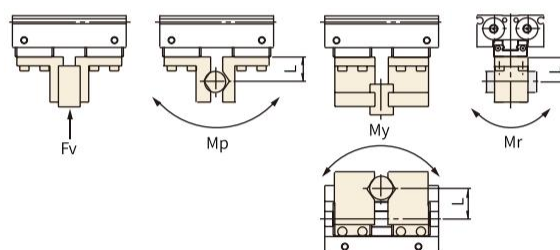
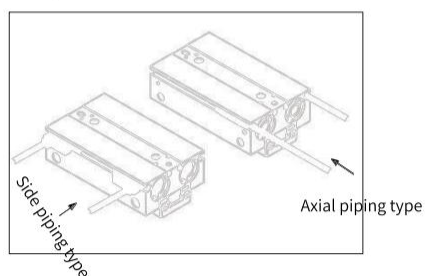
► Much shorter than JHZ2 series



► Standard stroke lengths for each bore size. Stroke can be selected to suit the workpiece.



► Centralized wiring and piping are possible.



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

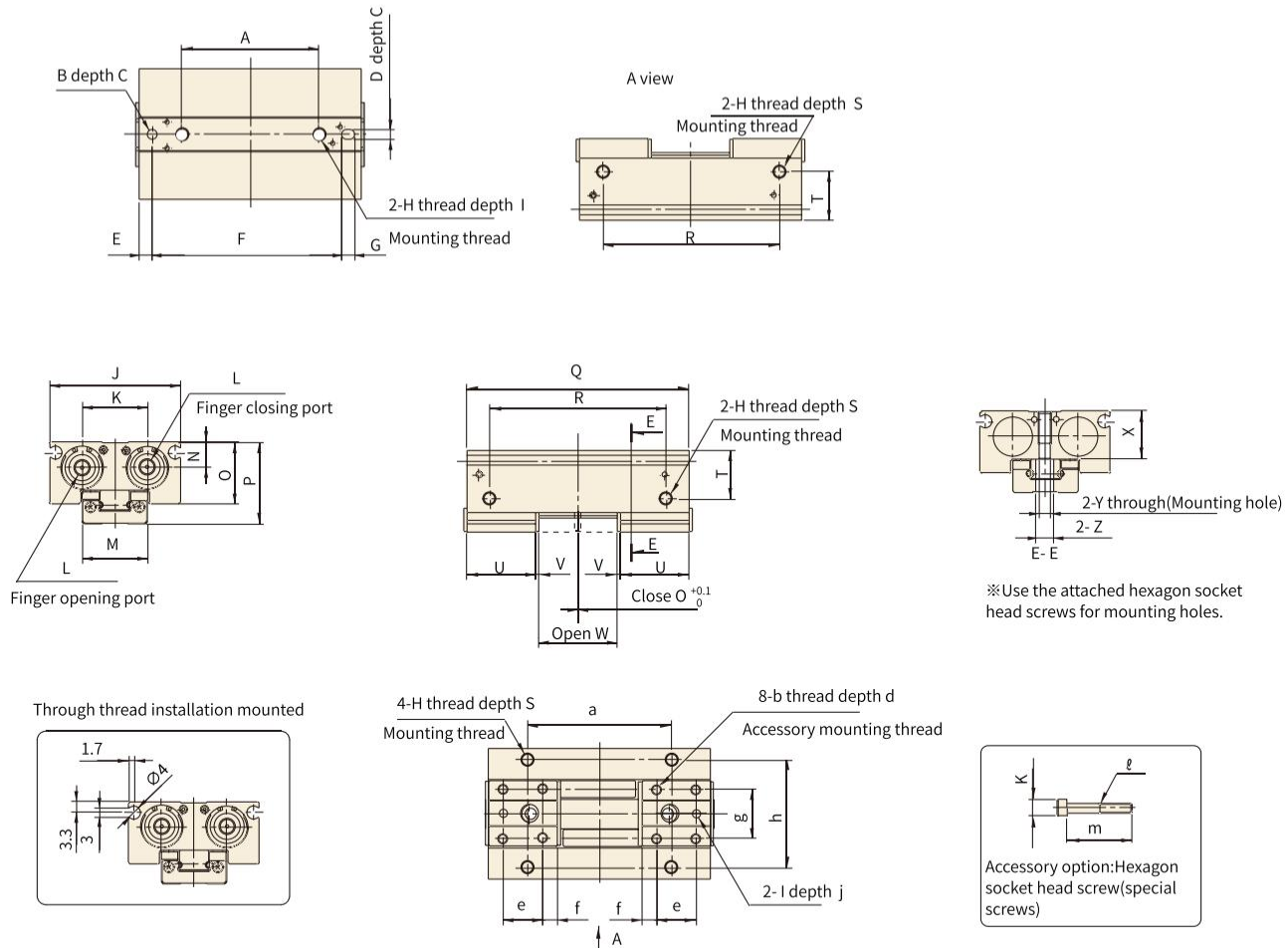
Sensor

Accessory option: Hexagon socket head screw (special screws)

[Note] JHF2-12D uses mounting thread M4×0.7 and the depth is 5mm.

Overall Dimension

JHF2-12D1 16D 16D1 20D 20D1



Dimension

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
JHF2-12D1	42	Ø3H9 ^{+0.030} ₀	3	Ø3H9 ^{+0.025} ₀	4	58	4	M4x 0.7	10	40	20	M5x 0.8	20 ⁰ _{-0.1}	7.7	19	25	68	54	5
JHF2-16D	38	Ø4H9 ^{+0.030} ₀	3	Ø4H9 ^{+0.030} ₀	6	57.5	5	M5x 0.8	12	50	26	M5x 0.8	27 ⁰ _{-0.1}	10.6	24	33	72	52	5.5
JHF2-16D1	60	Ø4H9 ^{+0.030} ₀	3	Ø4H9 ^{+0.030} ₀	6	79.5	5	M5x 0.8	12	50	26	M5x 0.8	27 ⁰ _{-0.1}	10.6	24	33	94	74	5.5
JHF2-20D	38	Ø5H9 ^{+0.030} ₀	4	Ø5H9 ^{+0.030} ₀	6	71	6	M6x 1	15	62	33	M5x 0.8	32 ⁰ _{-0.1}	13	30	41	86	56	6
JHF2-20D1	66	Ø5H9 ^{+0.030} ₀	4	Ø5H9 ^{+0.030} ₀	6	99	6	M6x 1	15	62	33	M5x 0.8	32 ⁰ _{-0.1}	13	30	41	114	84	6

Model	T	U	V	W	X	Y	Z	a	b	d	e	f	g	h	i	j	k	l	m
JHF2-12D1	15	21	1	24±1	14.8	Ø3.4	Ø5.5	44	M3 x 0.5	4	12	4.5	15	33	Ø2.5H9 ^{+0.025} ₀	2.5	Ø5	M3x 0.5	20
JHF2-16D	20	25	1.2	16±1	20	Ø4.3	Ø7.5	36	M4 x 0.7	4	15	5	20	43	Ø3H9 ^{+0.025} ₀	3	-	-	-
JHF2-16D1	20	29	1.2	32±1	20	Ø4.3	Ø7.5	58	M4 x 0.7	4	18	5.5	20	43	Ø3H9 ^{+0.025} ₀	3	-	-	-
JHF2-20D	25	31	1.2	20±1	25	Ø5.2	Ø10	40	M4 x 0.7	4	16	7.5	24	52	Ø3H9 ^{+0.025} ₀	3	-	-	-
JHF2-20D1	25	36	1.2	40±1	25	Ø5.2	Ø10	68	M4 x 0.7	4	20	8	24	52	Ø3H9 ^{+0.025} ₀	3	-	-	-

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

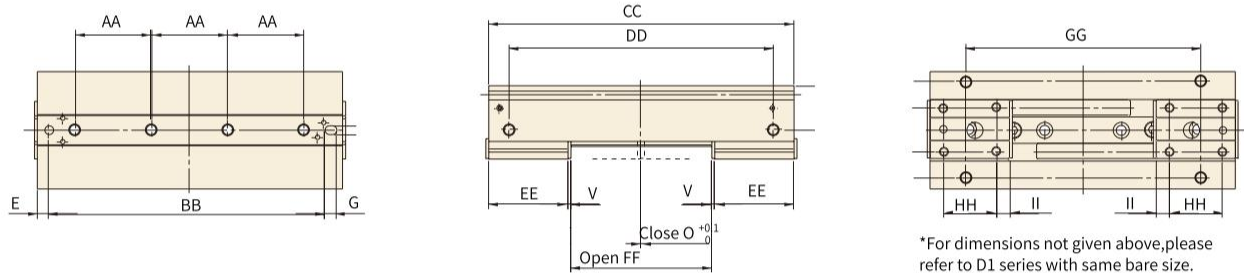
JHF2 Series

Compact Air Gripper



Overall Dimension

JHF2-8D2 12D2 16D2 20D2



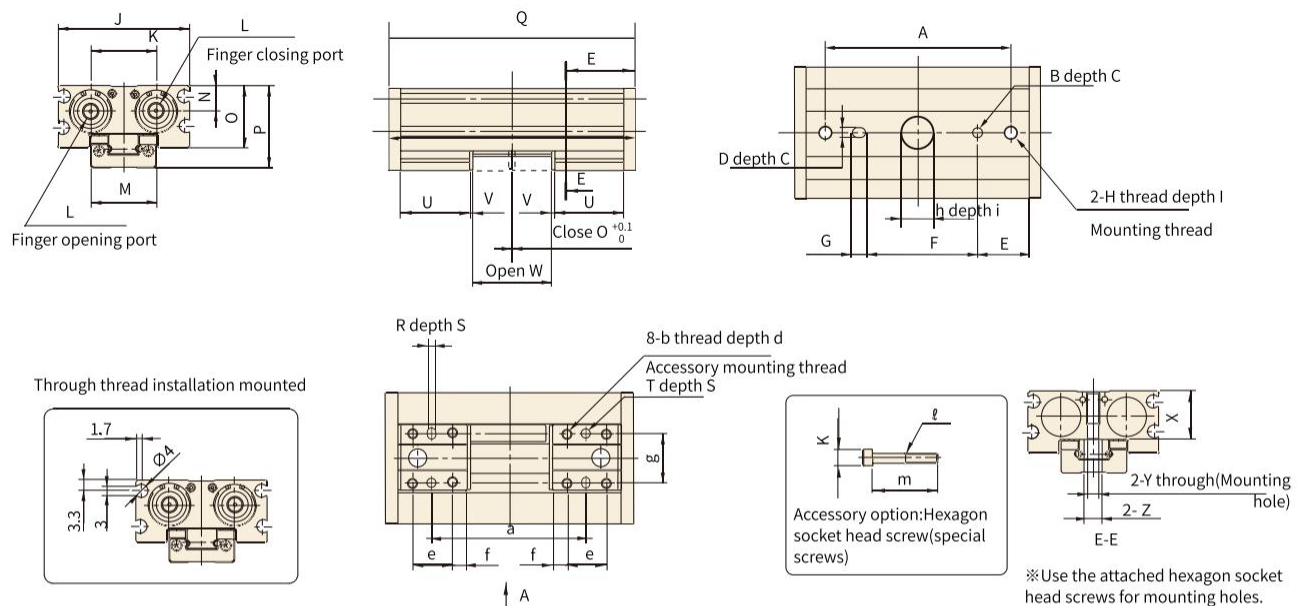
*For dimensions not given above, please refer to D1 series with same bore size.

*For dimensions not given above, please refer to D1 series with same bore size.

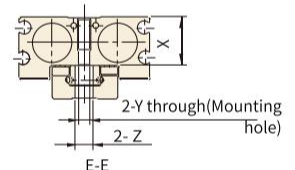
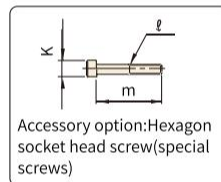
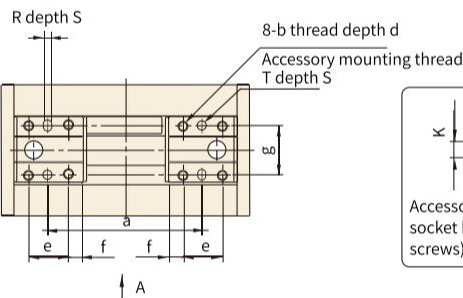
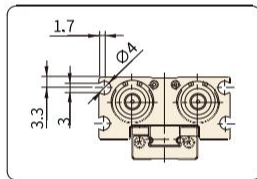
Dimension

Model	AA	BB	CC	DD	EE	FF	GG	HH	II
JHF2-8D	17	64.3	72	58	18	32	50	8	8
JHF2-12D2	26	94	104	90	27	48	80	18	4.5
JHF2-16D2	36	127.5	142	122	37	64	106	26	5.5
JHF2-20D2	42	159	174	144	46	80	128	30	8

JHF2-25D



Through thread installation mounted



※Use the attached hexagon socket head screws for mounting holes.

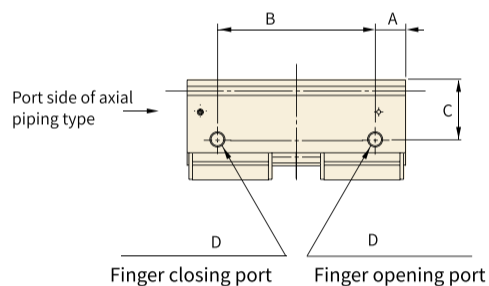
Dimension

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
JHF2-25D	122	Ø5H9 ^{+0.030} ₀	5	Ø5H9	38	77	6	M8x1.25	16	80	42.5	M5x0.8	52 ^{+0.1} ₀	22	41	63.5	156	4	4

Model	T	U	V	W	X	Y	Z	a	b	d	e	f	g	h	i	k	f	m
JHF2-25D	Ø4H9 ^{+0.030} ₀	38	1.5	60 ^{±1}	38	12	6.5	101	M5 x 0.8	10.5	29	4.5	24	15	4	5	M3x0.5	6

Body Option: Side Piping Type

JHF2-□D□R



*For dimensions not given above, please refer to the table of dimensions above
 *25 bore without lateral piping

Model	A	B	C	D
JHF2-8DR	5.5	25	11	M3 x 0.5
JHF2-8D1R		37		
JHF2-8D2R		61		
JHF2-12DR	7	38	14.8	M5 x 0.8
JHF2-12D1R		54		
JHF2-12D2R		90		
JHF2-16DR	9	54	19	M5 x 0.8
JHF2-16D1R		76		
JHF2-16D2R		124		
JHF2-20DR	10	66	23	M5 x 0.8
JHF2-20D1R		94		
JHF2-20D2R		154		

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JHZ2 Series

Air Gripper (Parallel Type)



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor



JHZ2 Series (Ø6~Ø40)

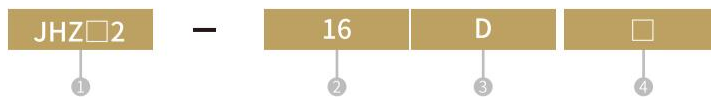
Specification

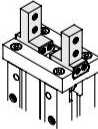
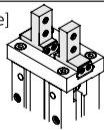
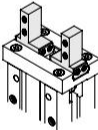
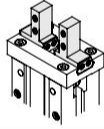
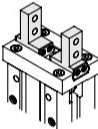
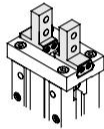
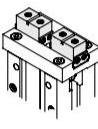
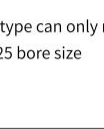
Bore Size(mm)	6	10	16	20	25	32	40
Working Medium	Air						
Operating Pressure Range	Double Acting	0.15~0.7MPa	0.2~0.7MPa	0.1~0.7MPa			0.1~0.7MPa
Ambient And Fluid Temperature	-10~60℃(with no condensation)						
Repeatability	± 0.01mm					± 0.02mm	
Max. Operating Frequency(c.p.m)	180					60	
Lubrication	No need						
Operation	Double acting · Single acting						
Sensor Model	JEL-07						
Piping Size	M3 x 0.5		M5 x 0.8				

Features

1. Linear guide with integrated design, high rigidity, high precision.
2. A positioning dowel pin hole is arranged at the bottom of the guide rail to prevent the guide rail deviating from the cylinder block.
3. Cylinder block has multiple dowel pin hole, which make high installation positioning accuracy.
4. The initial position of the gripper can be selected according to the actual situation of customers to meet different working conditions.

Ordering Code

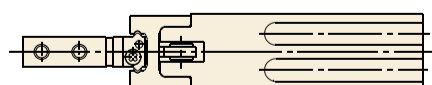
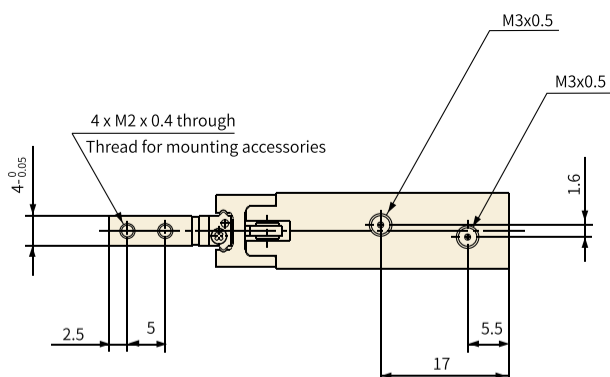
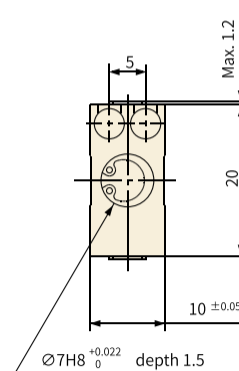
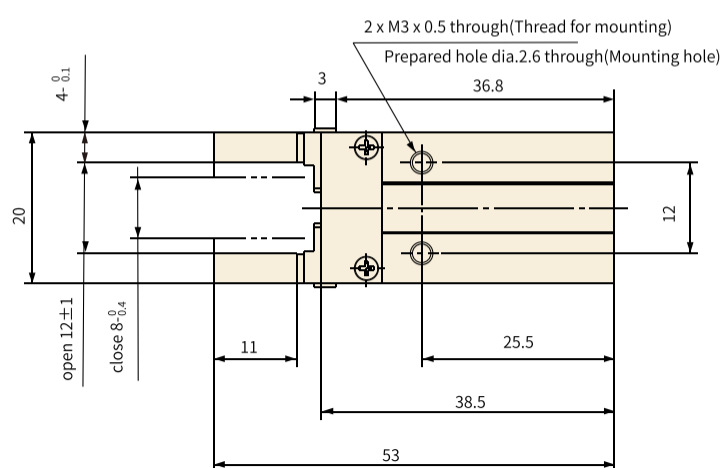


① Option		② Bore Size		③ Operation		④ Finger Option	
Nil	Standard type	6	6mm	D	Double acting	[Standard] Nil: Basic type	[Narrow type] Basic type
		10	10mm				
		16	16mm				
L	Long stroke	20	20mm	S	Single acting (Normally open)	1:Side tapped mounting	N1:Side tapped mounting
		25	25mm				
		32	32mm	C	Single acting (Normally close)	2:Through-holes	N2:Through-holes
		40	40mm				
							3:Flat type

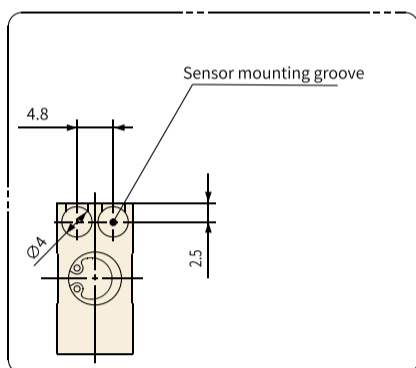
[Note]Sensor model please refer to P173 for the specific ordering code.

Overall Dimension

Standard Type (Double Acting) JHZ2-6D



Sensor Mounting Groove Dimensions



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JHZ2 Series

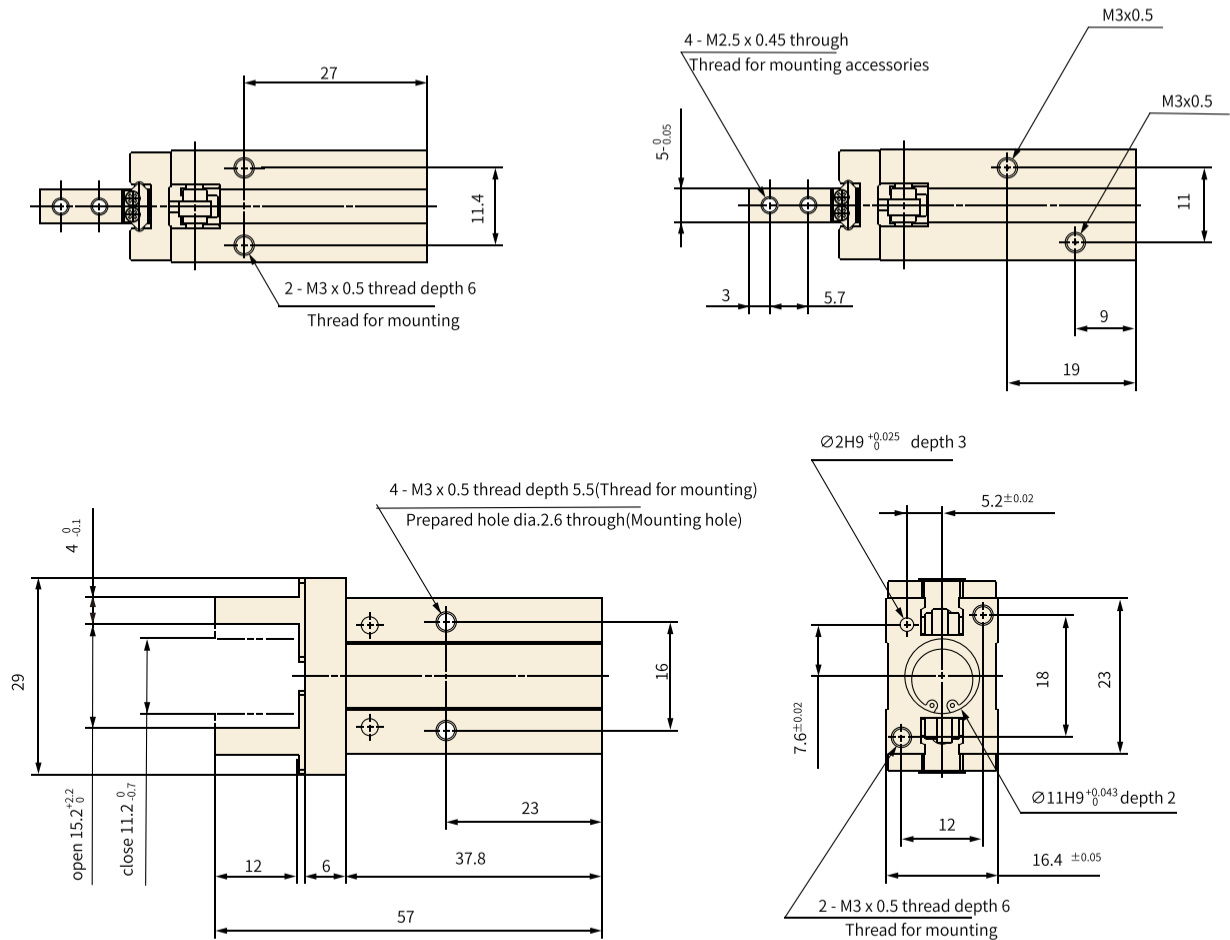
Air Gripper (Parallel Type)



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

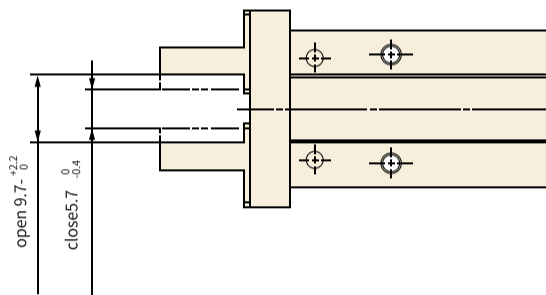
Overall Dimension

Standard Type (Double Acting) JHZ2-10D

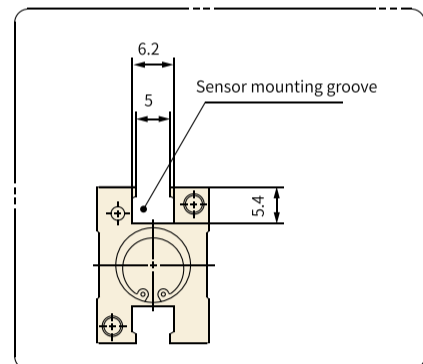


Flat Type Fingers

AHZ2-10DN

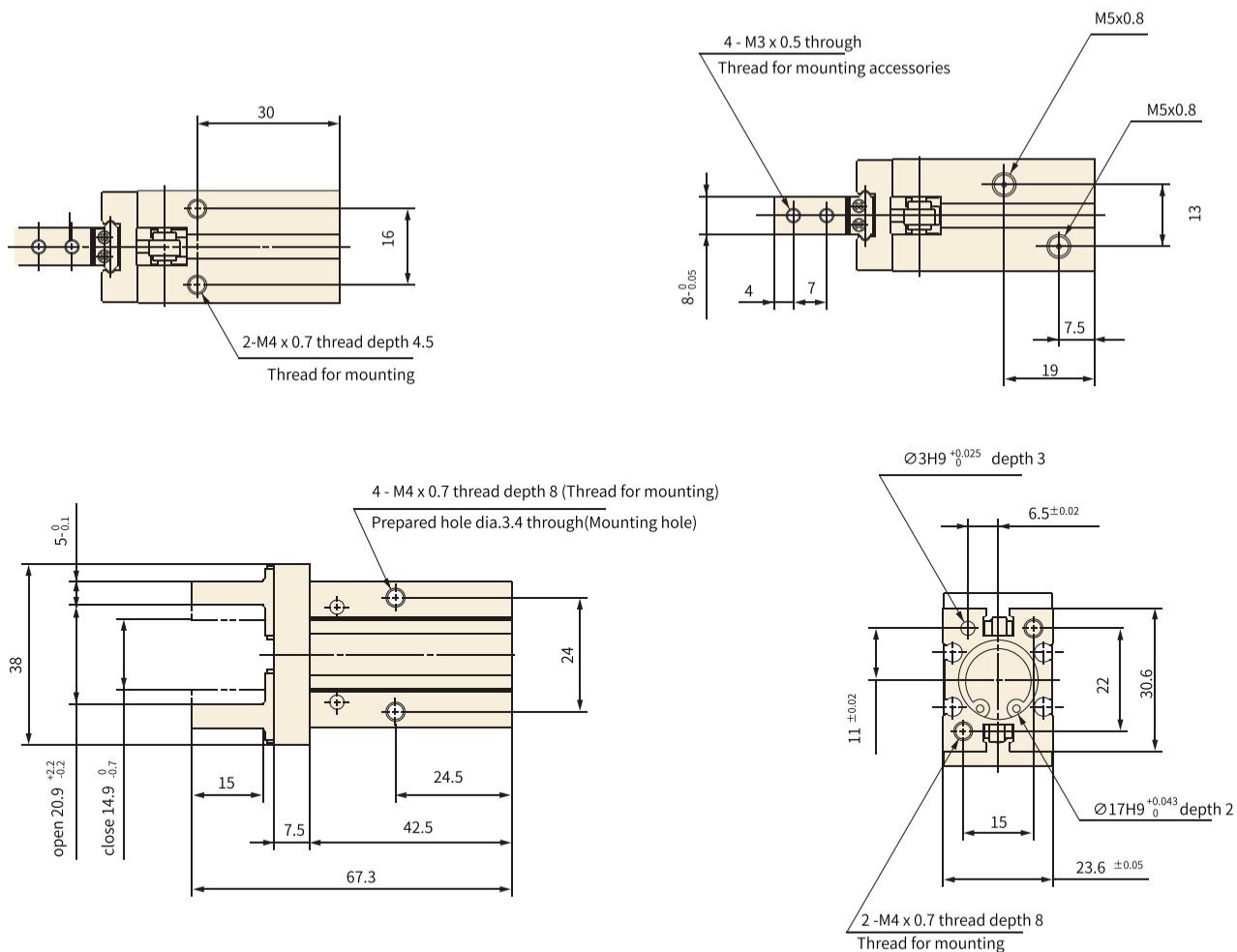


Sensor mounting groove dimensions

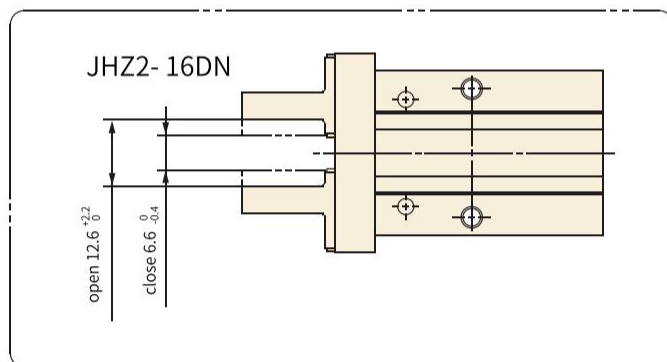


Overall Dimension

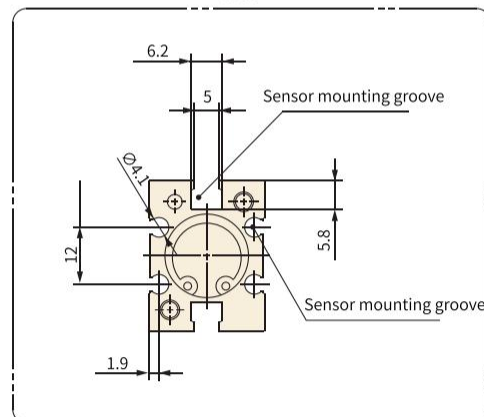
Standard Type (Double Acting) JHZ2-16D



Flat Type Fingers



Sensor mounting groove dimensions



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

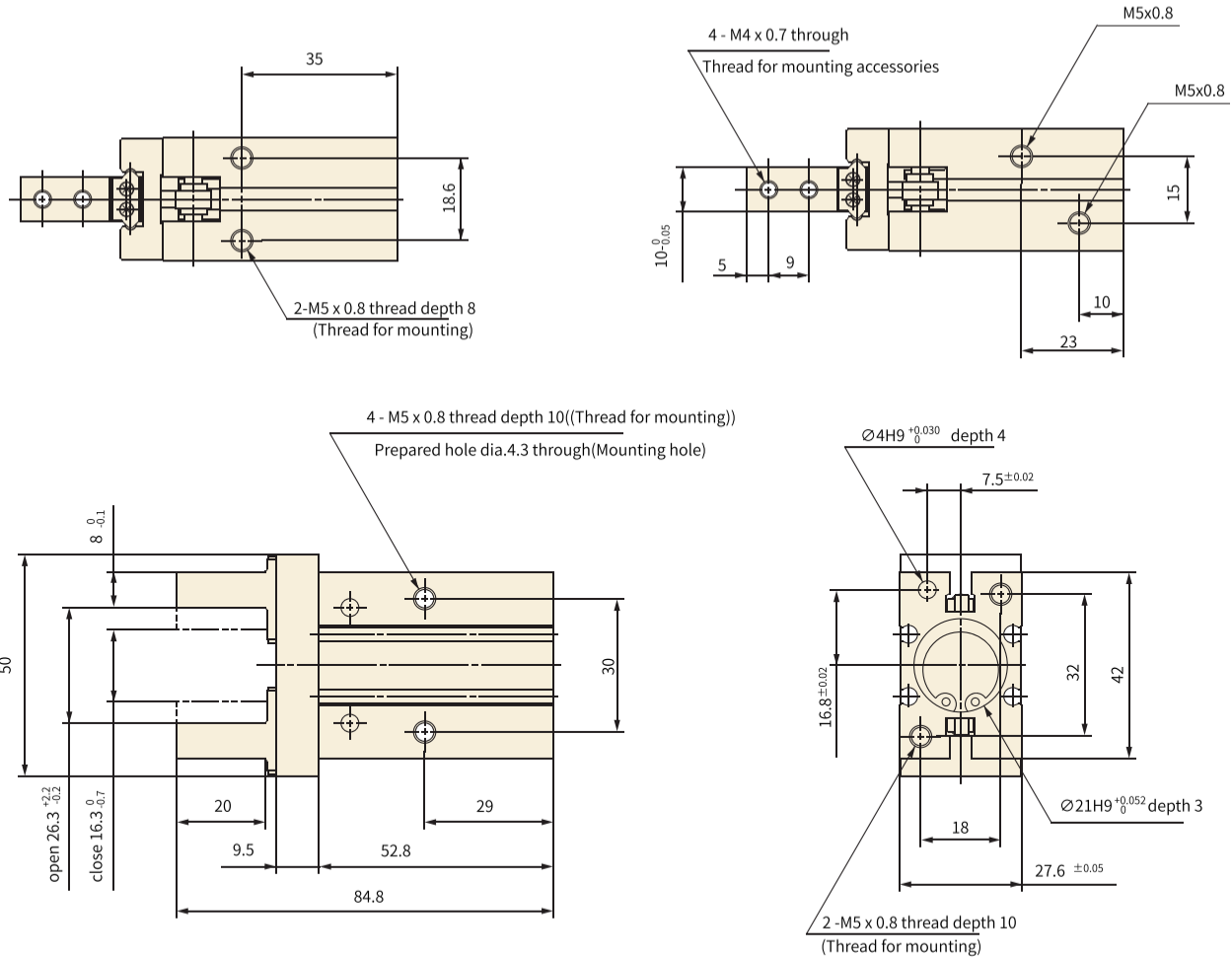
JHZ2 Series

Air Gripper (Parallel Type)



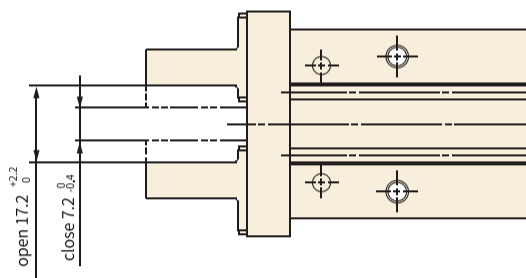
Overall Dimension

Standard Type (Double Acting) JHZ2-20D

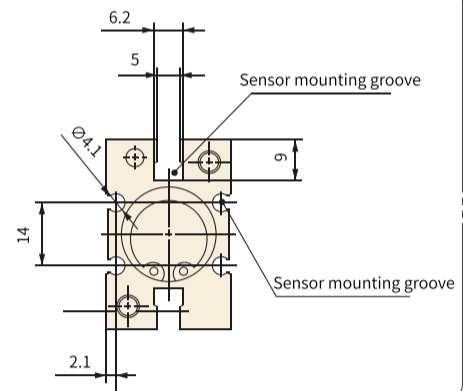


Flat Type Fingers

JHZ2-20DN

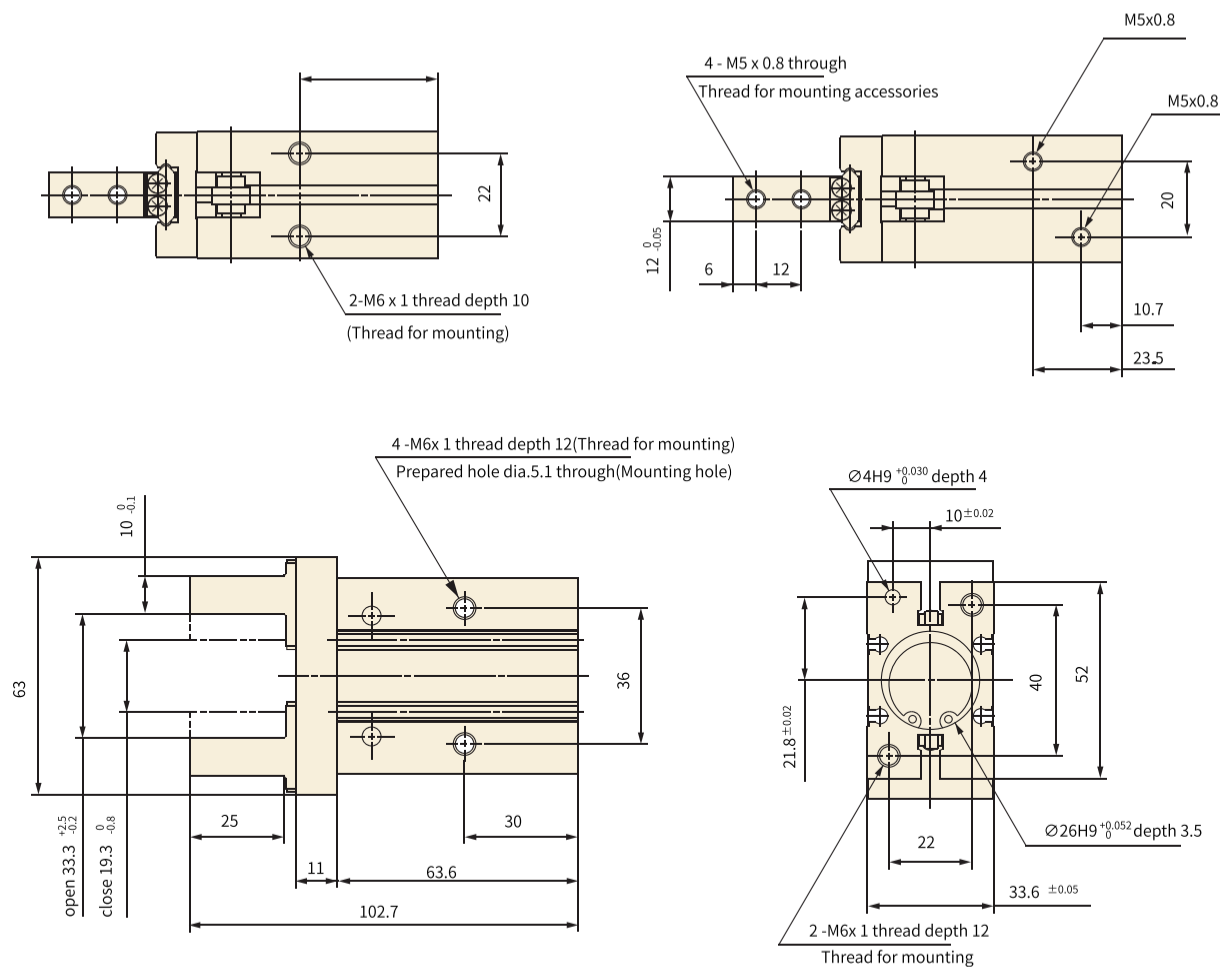


Sensor mounting groove dimensions

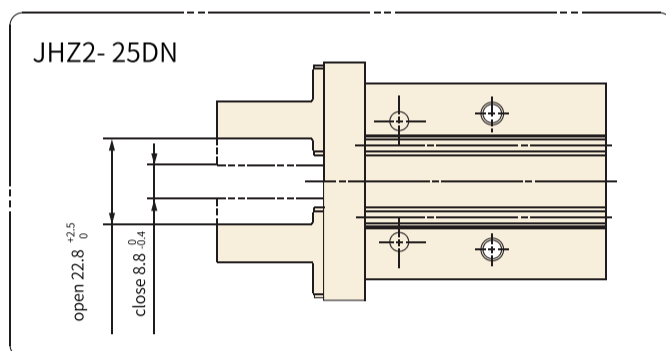


Overall Dimension

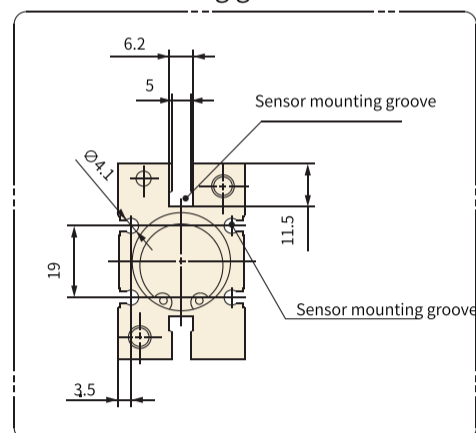
Standard Type (Double Acting) JHZ2-25D



Flat Type Fingers



Sensor mounting groove dimensions



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

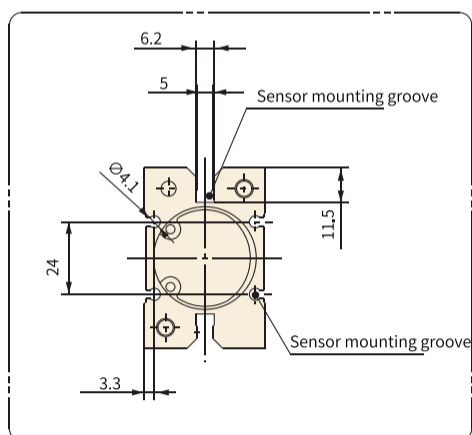
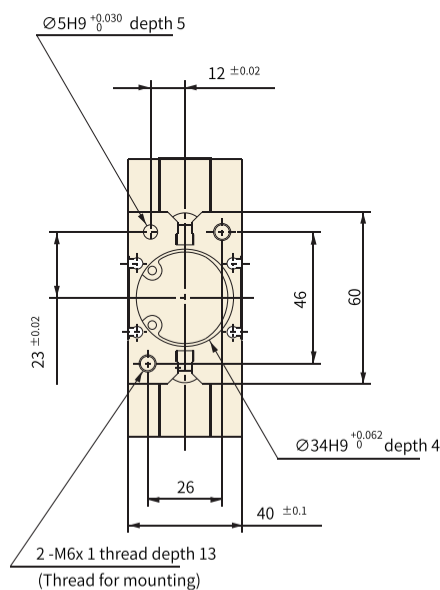
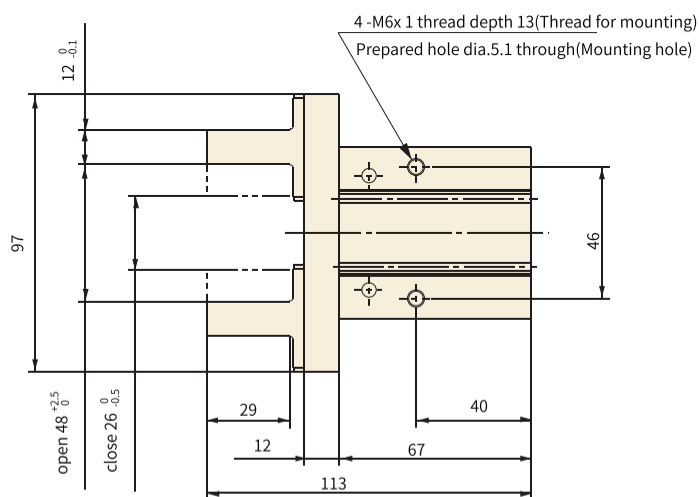
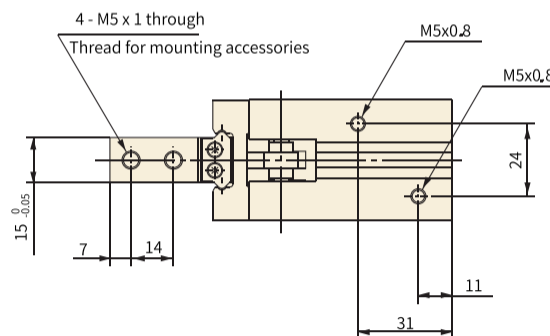
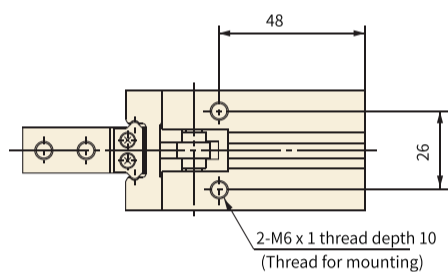
JHZ2 Series

Air Gripper (Parallel Type)



Overall Dimension

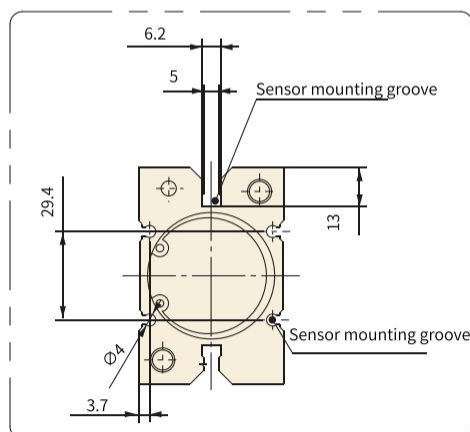
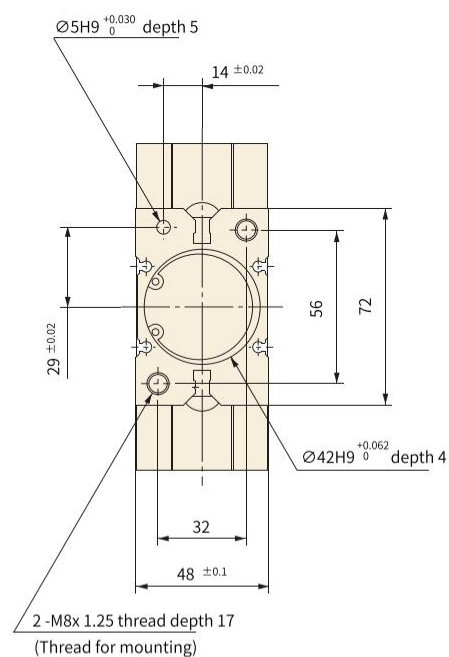
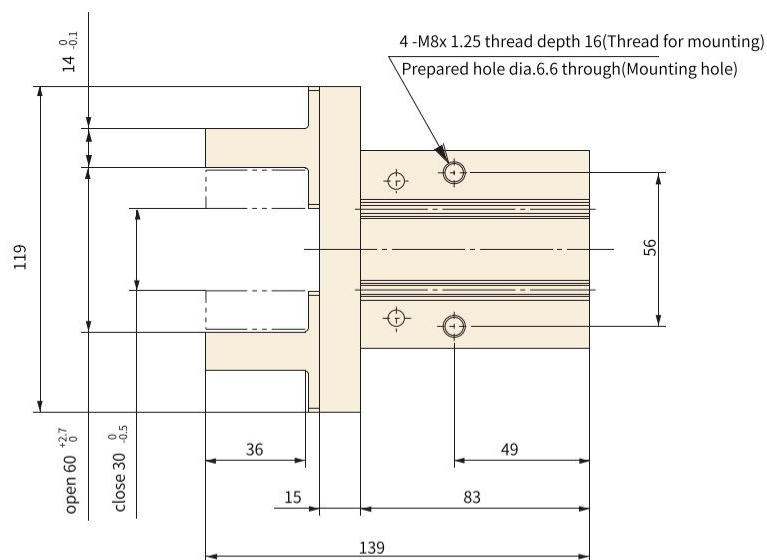
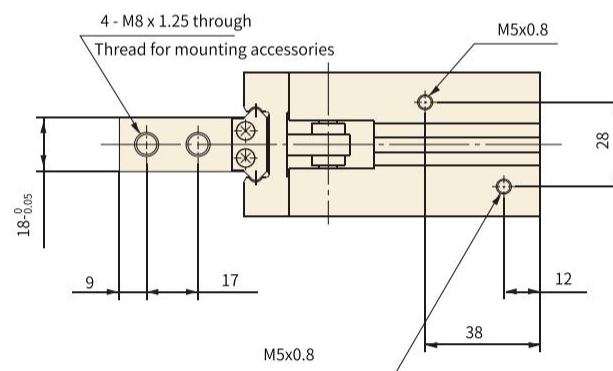
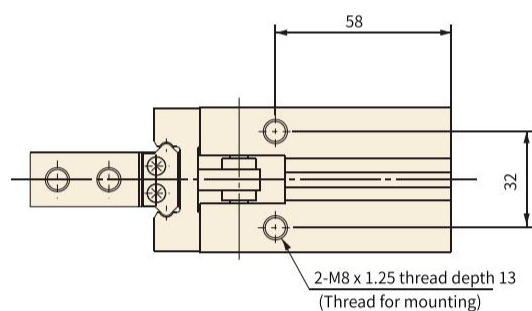
Standard Type (Double Acting) JHZ2-32D



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Overall Dimension

Standard Type (Double Acting) JHZ2-32D



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

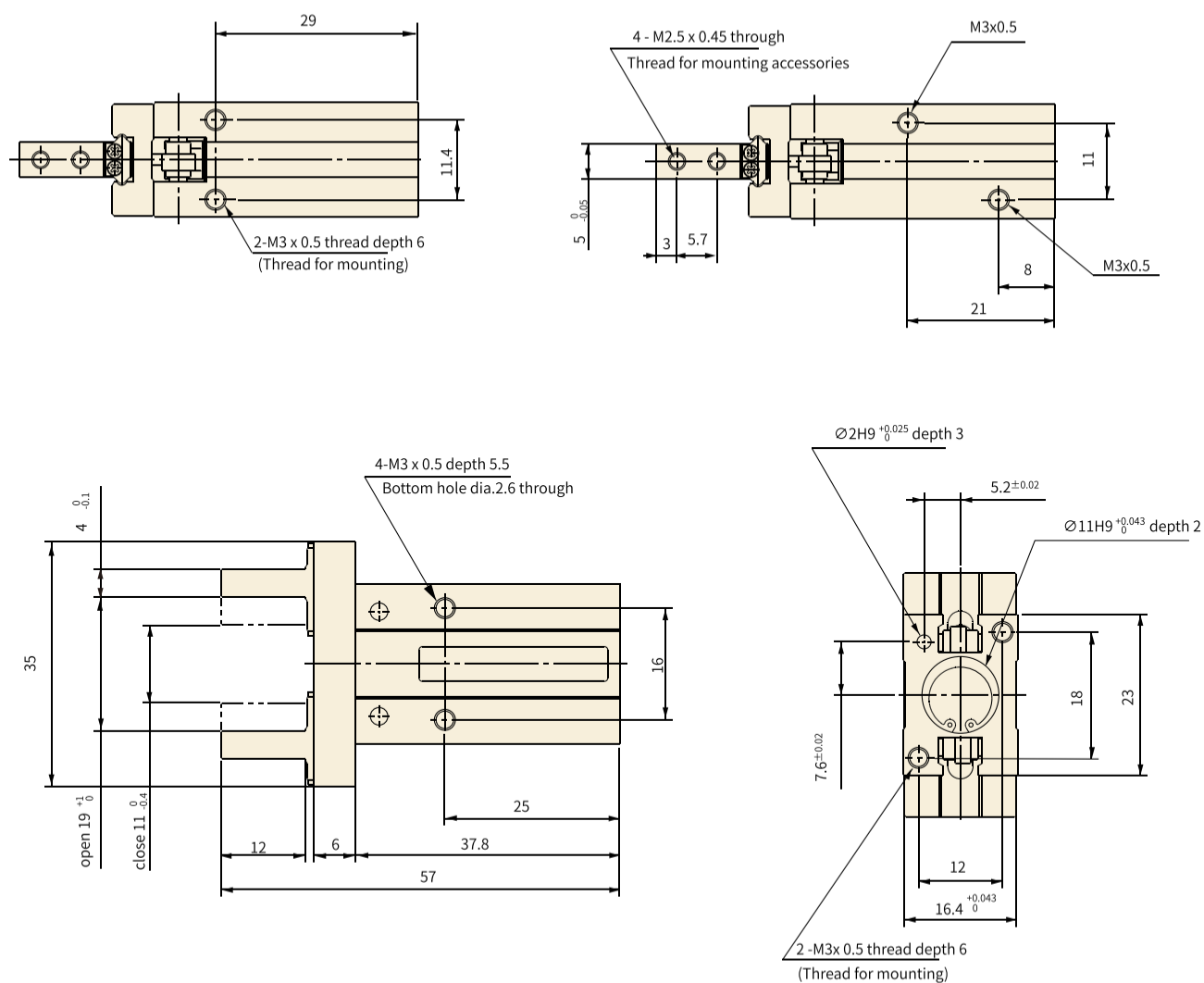
JHZ2 Series

Air Gripper (Parallel Type)



Overall Dimension

Double Acting/Single Acting JHZL2-10

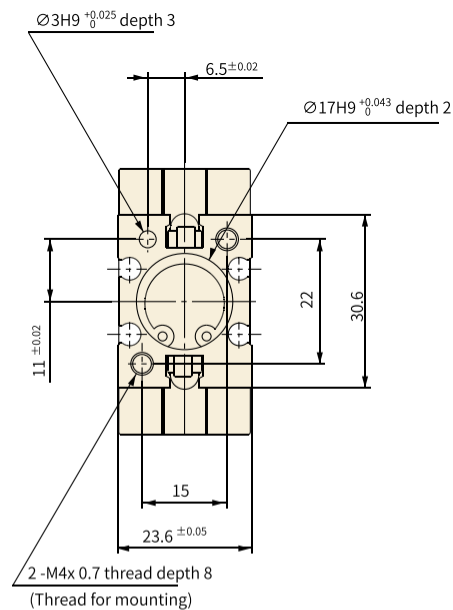
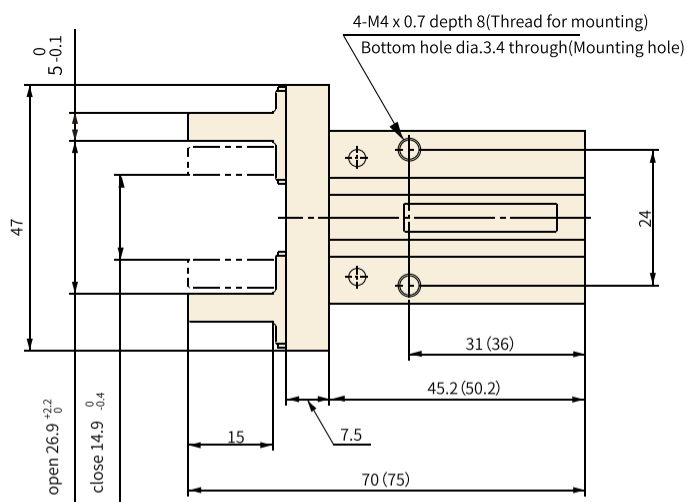
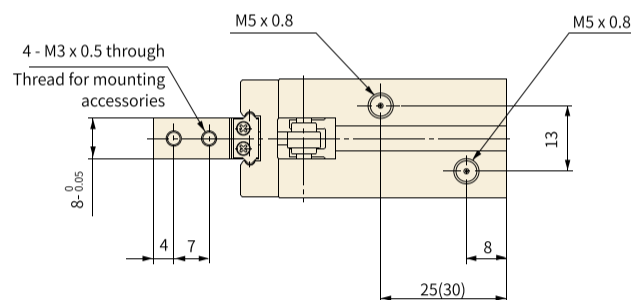
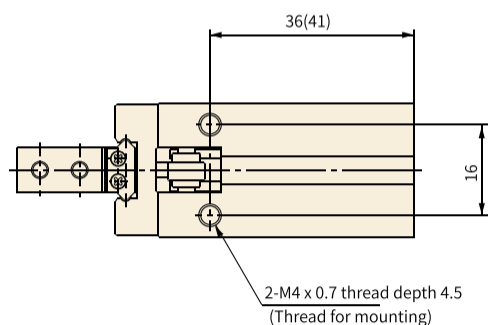


Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Overall Dimension

Double Acting/Single Acting JHZL2-16

The values inside () are dimensions for single acting type.



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

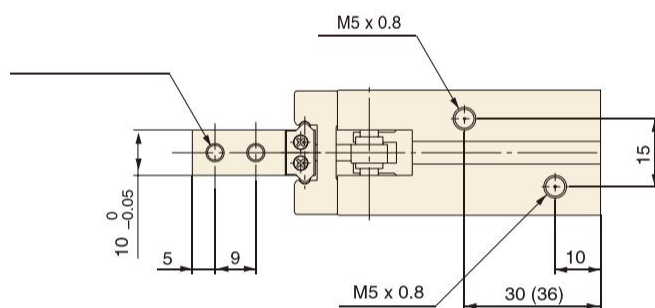
TN

JGP

JSQB

Sensor

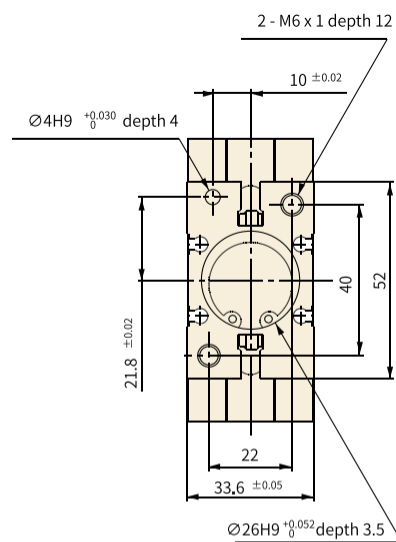
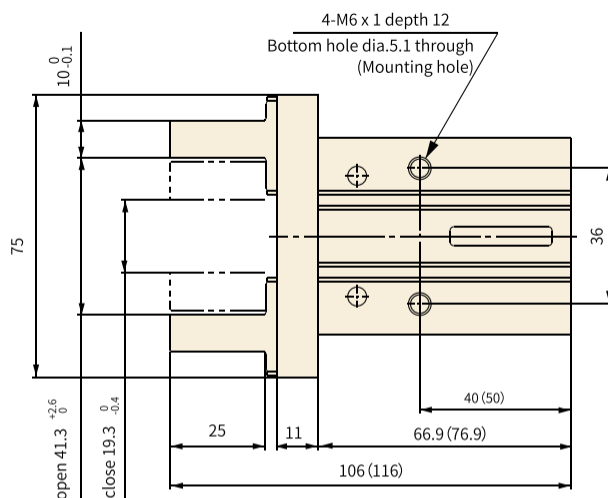
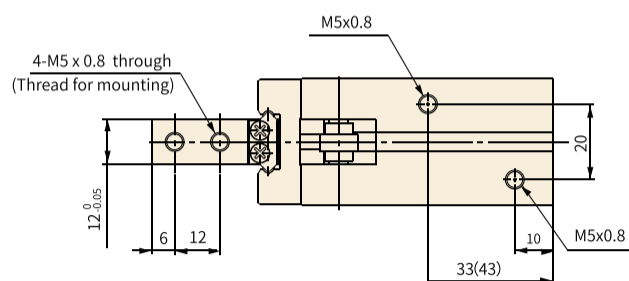
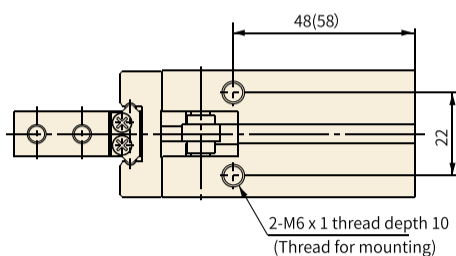
The values inside () are dimensions for single acting type.



Overall Dimension

Double Acting/Single Acting JHZL2-16

The values inside () are dimensions for single acting type.



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JHY2 Series

Air Gripper(Fulcrum open and close type)/ Cam Type 180°



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

JHY2 Series

Specification



Bore Size(mm)	10	16	20	25
Operation	Double Acting			
Working Medium	Air			
Max. Operating Pressure(Mpa)(kgf/cm ²)	0.6{6.1}			
Min. Operating Pressure(Mpa)(kgf/cm ²)	0.15{1.5}	0.1{1.0}		
Ambient And Fluid Temperature	-10~60°C(with no condensation)			
Max. Operating Frequency(c.p.m)	60			
Repeatability(mm)	±0.2			
Holding Power(N)(kg)	0.16{1.6}	0.54{5.5}	1.10{11.2}	2.28{23.3}
Weight(g)	70	150	320	560
Lubrication	No need			
Piping Size	M5×0.8			

[Note] At the pressure of 0.5MPa(kgf/cm²).

Features

1. Built-in magnetic ring, and sensor can be placed.
2. 180°angular clamping type, simplify holding and placing.
3. Can be suitable for special environment use, finger opening and closing part is specially designed to prevent small objects from entering.
4. Easy to install, with positioning dowel pin hole.

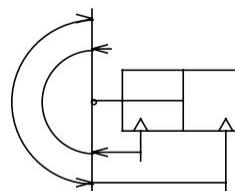
Ordering Code



①	② Air Gripper	
Bore size	Nil	thread
	2	through-hole

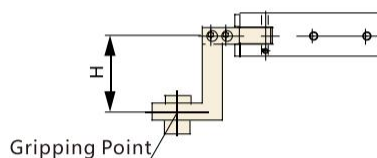
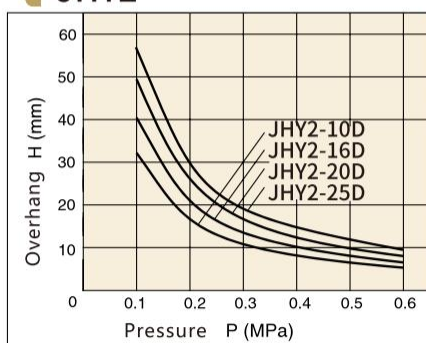
[Note] Sensor model please refer to P173 for the specific ordering code.

Symbol



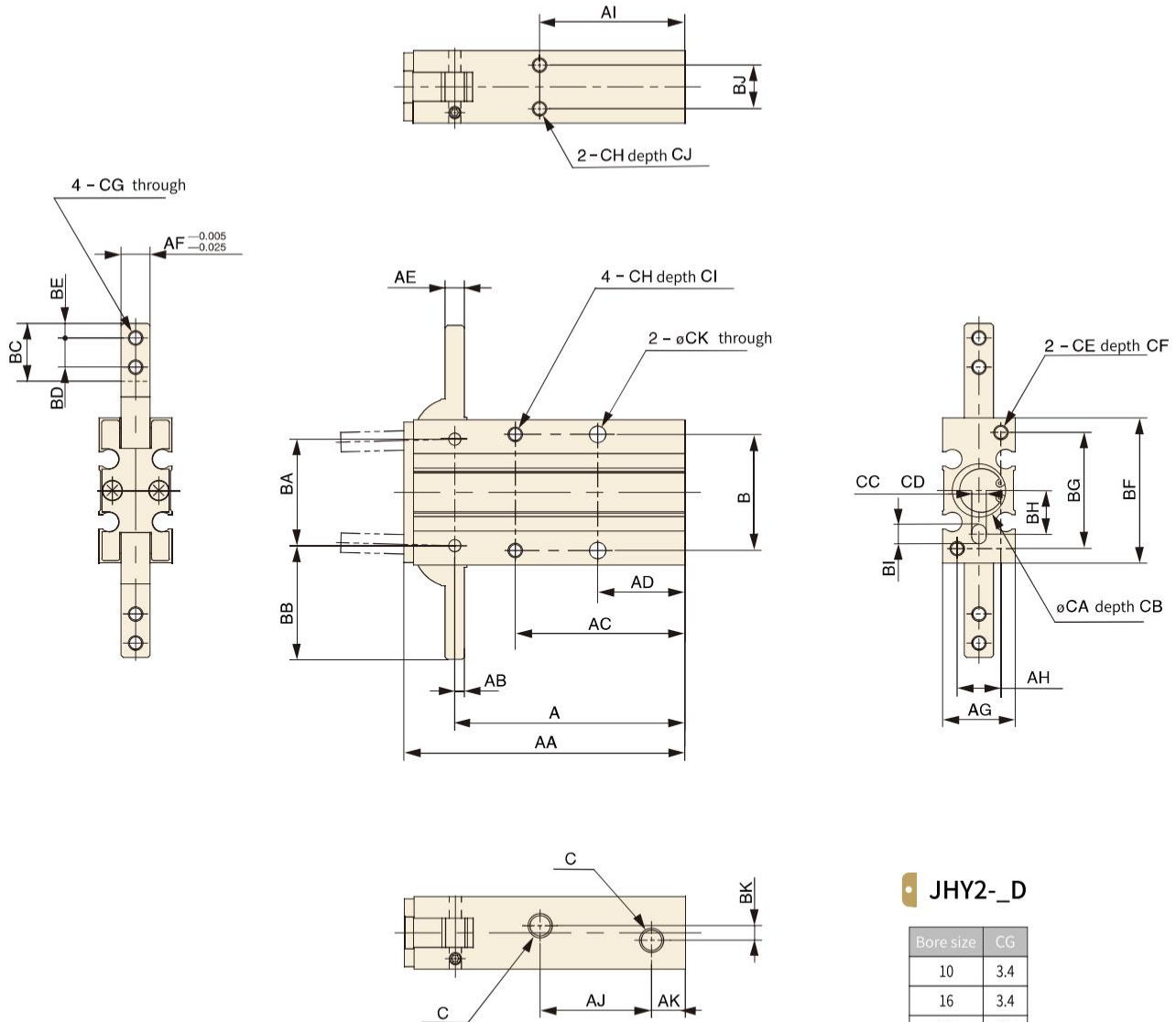
Gripping Point

JHY2



If operated with the workpiece gripping point beyond the indicated range H, the lifetime of the product will be affected.

Overall Dimension



JHY2-_D

Bore size	CG
10	3.4
16	3.4
20	4.5
25	5.5

[Note] Please refer to the table left for other sizes.

JHY2-_D

Bore size	A	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK
10	47.5	58	2	35	18	4	6	15	9	30	23	7	24	22	23.5	12	6	3	30	24	9	4	9	3
16	55.5	69	2.5	41	20	5	8	20	12	33	25	7	30	28	28.5	14	7	4	38	30	15	4	12	8
20	69	86	4	50	25	8	10	26	16	42	32	8	36	36	37	18	9	5	48	38	19	5	14	12
25	86	107	5	60	30	10	12	30	18	50	42	8	42	45	45	22.5	12	6	58	46	23	5	16	14

Bore size	C	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK
10	M5×0.8	11 ^{+0.043} ₀	1.5	3 ^{+0.043} ₀	3	M3×0.5	6	M3×0.5	M3×0.5	6	4	3.4
16	M5×0.8	17 ^{+0.043} ₀	1.5	3 ^{+0.043} ₀	3	M4×0.7	8	M3×0.5	M4×0.7	8	5	4.5
20	M5×0.8	21 ^{+0.052} ₀	1.5	4 ^{+0.043} ₀	4	M5×0.8	10	M4×0.7	M5×0.8	10	8	5.5
25	M5×0.8	26 ^{+0.052} ₀	1.5	4 ^{+0.043} ₀	4	M6×1	12	M5×0.8	M6×1	12	10	6.6

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

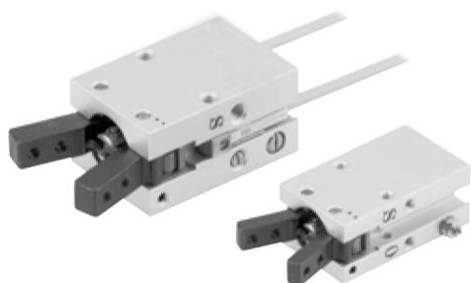
Sensor

JHC2 Series

Air Gripper (Angle Open and Close Type)



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor



*Multi-sided free installation, compact structure design, space saving
*Built-in flow regulator

*Built-in magnetic ring, can install auto switch on multiple sides
*High positioning accuracy

JHC2 Series

Specification

Bore Size(mm)	10	16	20	25
Working Medium	Air			
Operation	Double acting			
Min. Operating Pressure	0.15MPa			
Max. Operating Pressure	0.7MPa			
Ambient And Fluid Temperature	-10~60°C (with no condensation)			
Max. Operating Frequency	180 (C.P.M)			
Sensor	JEL-07D			
*Grease	No need			
Cushion	Rubber cushion on both ends			
Piping Size	M3X0.5	M5X0.8		

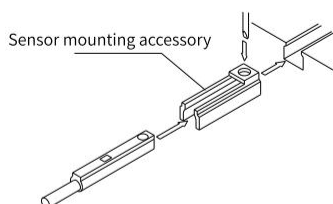
Ordering Code

JHC2	—	□	D
		1	2
1 Bore Size	2 Double Acting		
10			
16			
20			
25			

Sensor Mounting Accessory and model

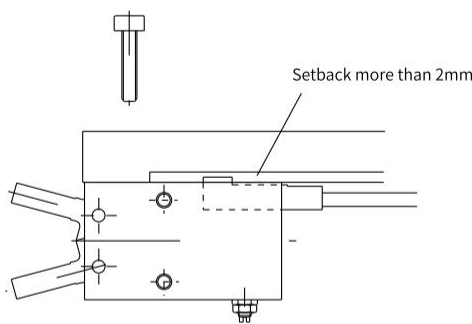
Sensor Model	Sensor Mounting Accessory Model
JEL-07D/JEL-07N	BMG2-012

Fixing Method Of Sensor



- ① Insert the sensor mounting accessory into the mounting groove on the cylinder as shown in the picture, and generally set the position of the sensor
- ② Insert the sensor in the mounting groove of the mounting accessory
- ③ After the detection position is confirmed, fix the sensor with the stopscrew (M2.5) attached to the sensor
- ④ The change of the detection position is carried out according to the step ②

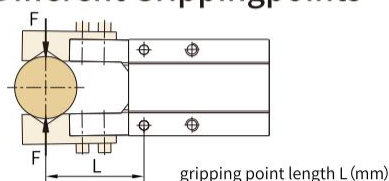
[Note] Use the horologic driver with a grip diameter of 5-6mm when fastening the mounting screws. And the tightening moment is about 0.05~0.1 N·m, with a rough tightening feeling, then turn it 90°.



Note for using mounting accessory

When the sensor is used on the side of the mounting surface as shown in the above figure, due to the protrusion of the sensor mounting accessory from the end face, so the mounting plate should be designed with a setback of more than 2mm.

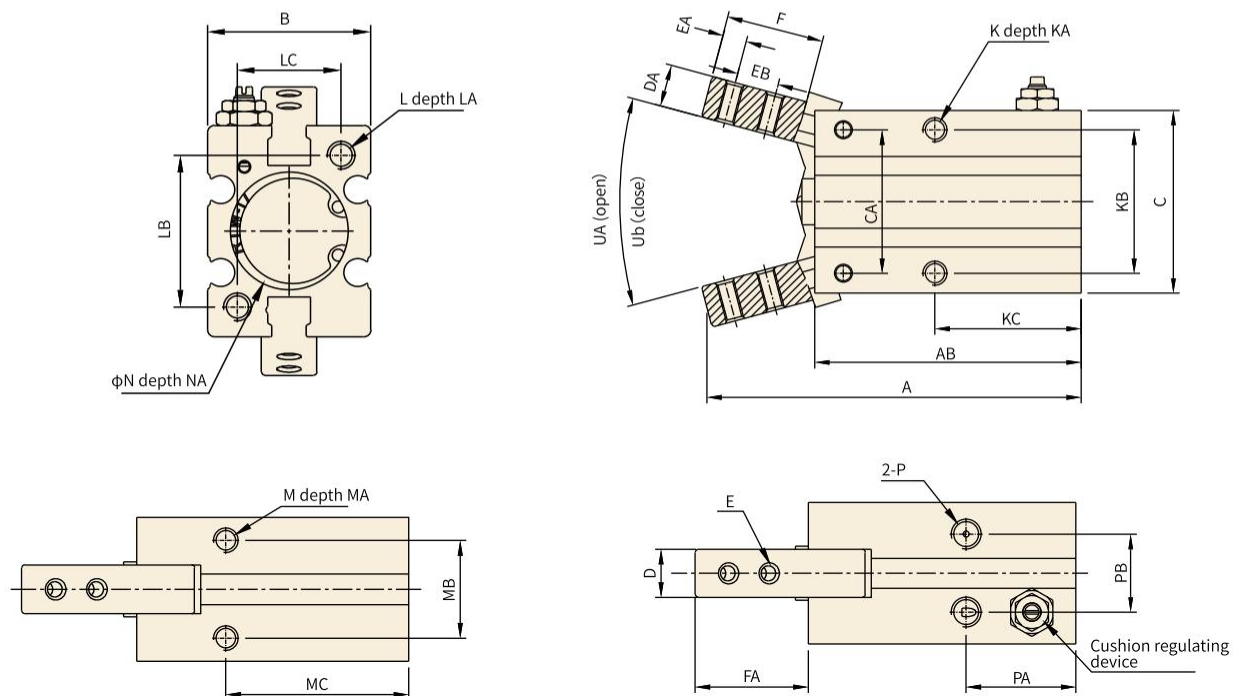
Gripping Forces Correspond To Different Gripping points



Theoretical Gripping Moment

		10	16	20	25
Theoretical Gripping Moment At 0.5Mpa Pressure	Closing Gripping Moment	0.088	0.45	0.76	1.52
	Opening Gripping Moment	0.147	0.645	1.26	2.365
Max. Gripping Point Length(mm)		30	40	60	70
Opening Angle (°)		30			
Losing Angle (°)		-10			

Overall Dimension



Specification

Bore Size	A	AB	B	C	CA	D	DA	E	EA	EB	F	FA	K	KA	KB	KC	L
10	52.5	38.5	16.5	23	14	6.4	4	M2.5×0.45	3	5.7	12	14.5	M3×0.5	5	16	23	M3×0.5
16	62.5	44.5	23.6	30.5	24	8	7	M3×0.5	4	7	16	19	M4×0.7	7	24	24.5	M4×0.7
20	78	55	27.6	42	30	10	8	M4×0.7	5	9	20	23.5	M5×0.8	8	30	29	M5×0.8
25	92	60.5	33.6	52	36	12	10	M5×0.8	8	12	27	33	M6×1.0	10	36	30	M6×1.0

Bore Size	LA	LB	LC	M	MA	MB	MC	N	NA	P	PA	PB	UK (张开)	UK (张开)
10	6	18	12	M3×0.5	6	11.4	27	$11^{+0.05}_0$	1.5	M3×0.5	19	10	30°	10°
16	8	22	15	M4×0.7	4.5	16	30	$17^{+0.05}_0$	1.5	M5×0.8	18.5	13	30°	10°
20	10	32	18	M5×0.8	8	18.6	35	$21^{+0.05}_0$	1.5	M5×0.8	22	15	30°	10°
25	12	40	22	M6×1.0	10	22	36.5	$26^{+0.05}_0$	1.5	M5×0.8	23.5	20	30°	10°

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JXH Series

Compact Slide Table Cylinder



Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor



JXH Series

Specifications

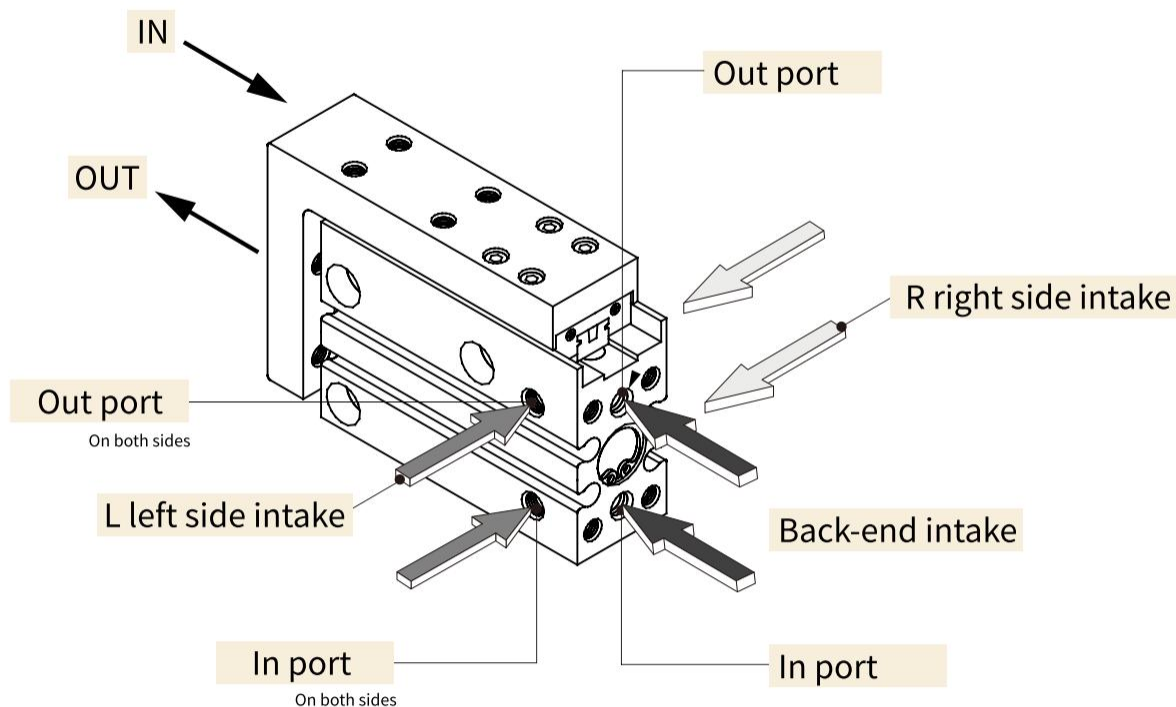
Bore Size(mm)	6	10	16	20
Working Medium	Air			
Action	Double acting			
Min. Operating Pressure	0.15MPa	0.1MPa		
Max. Operating Pressure	0.7MPa			
Ambient And Fluid Temperature	-10~60°C (with no condensation)			
Piston Speed	50 ~ 500 mm/s			
Allowable Kinetic Energy J	0.0125	0.025	0.05	0.1
Lubrication*	No need			
Cushing	Rubber cushion on both ends			
Stroke Length Tolerance(mm)	+1.0 0			
Sensor Model	JEL-07D			
Piping Size	M5 × 0.8			

Feature

1. Adopt high rigidity and elongated guide rail to improve cylinder rigidity and guiding accuracy.
2. Standard built-in magnetic ring, can be installed stroke sensing switch.
3. Piping is possible in 3 directions.
4. Sensor can be mounted on both sides.
5. Standard rubber buffer on both ends.

Model Representation

Piping Is Possible In 3 Directions



Ordering Code

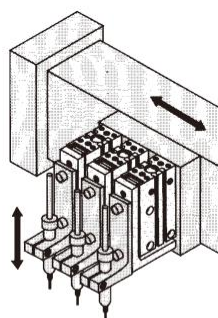
JXH	10	x	30	□
①	②		③	④
① Model	② Bore Size	③ Stroke	④ Stroke	
JXH	See the stroke/sensor table for details		Nil	
			L	
			R	

[Note] Sensor model please refer to P173 for the specific ordering code.

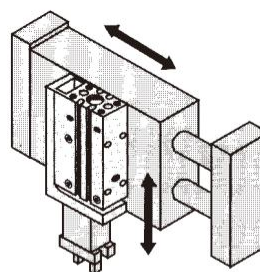
Stroke/sensor

Model	Bore Size(mm)	Standard Stroke (mm)	Direct Mounting Sensor
JXH	6	5 10 15 20 25 30 40 50 60	JEL-07D
	10		
	16		
	20		

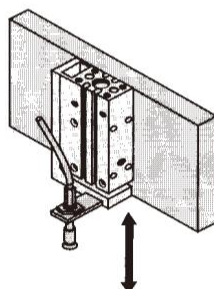
Application



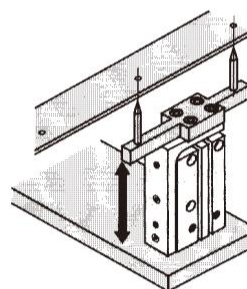
Parallel distributor



Work piece delivery



Work with vacuum chuck



Pinhole locator

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

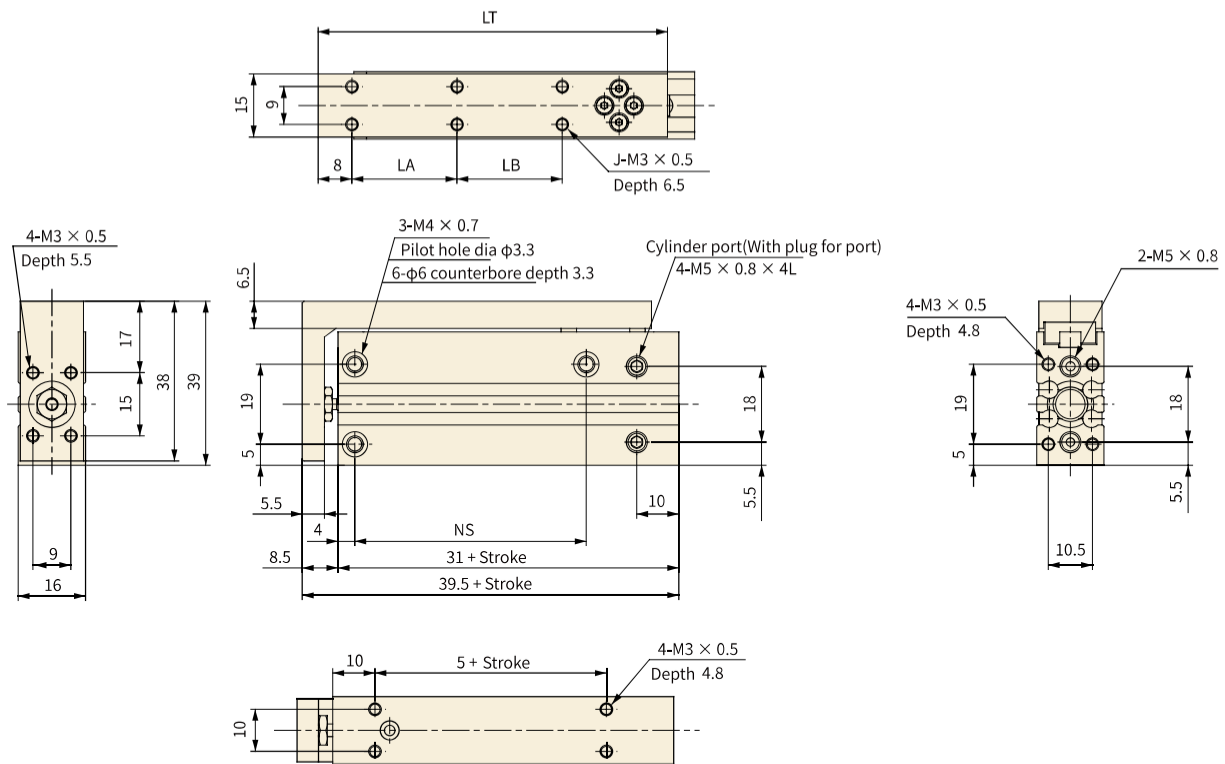
JXH Series

Compact Slide Table Cylinder



Overall Dimension

JXH6



Stroke	J	LA	LB	LT	NS
5	4	10	—	42	14
10	4	10	—	42	14
15	4	20	—	52	24
20	4	20	—	52	24
25	4	30	—	62	30
30	4	30	—	62	30
40	6	20	20	72	45
50	6	25	25	82	55
60	6	30	30	92	60

JXH10

2-|P130

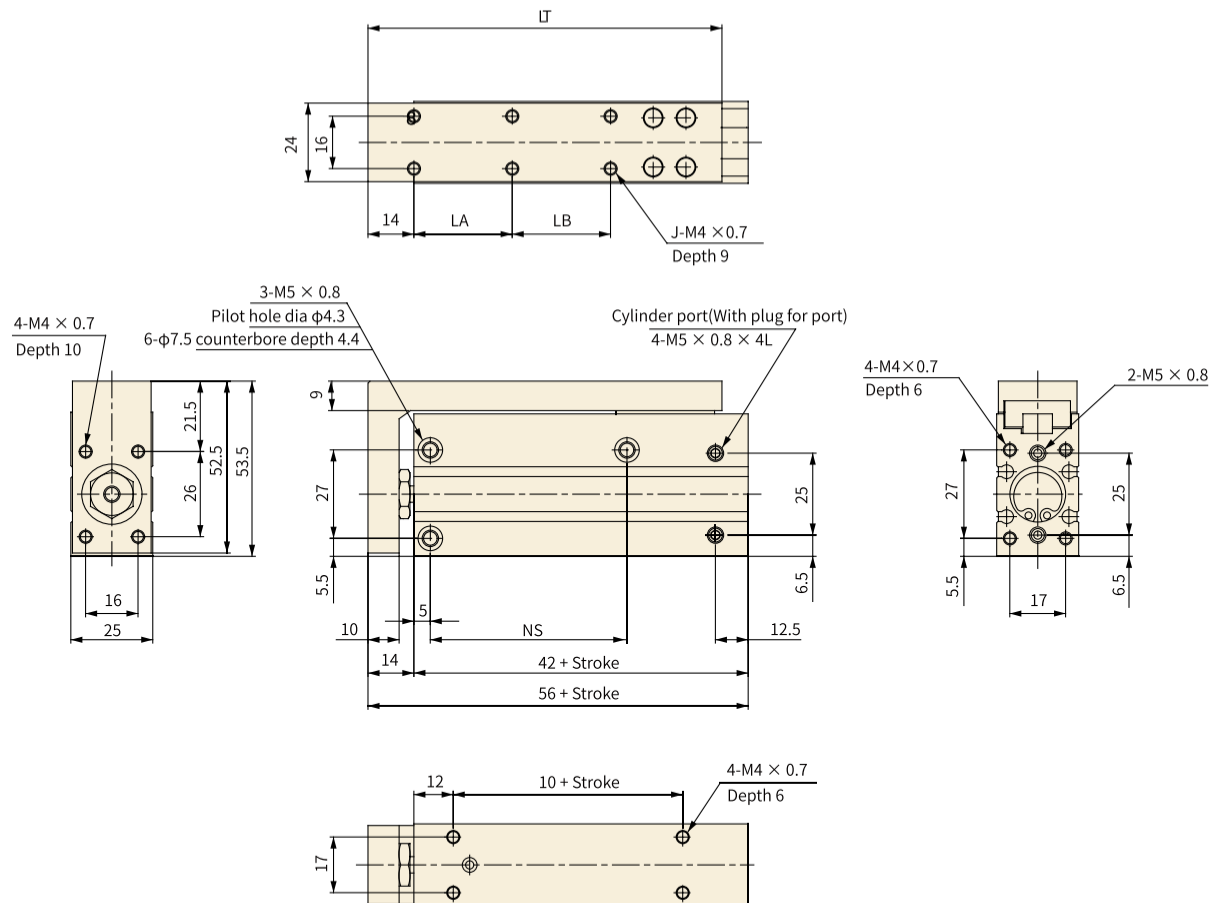
JXH Series

Compact Slide Table Cylinder



Overall Dimension

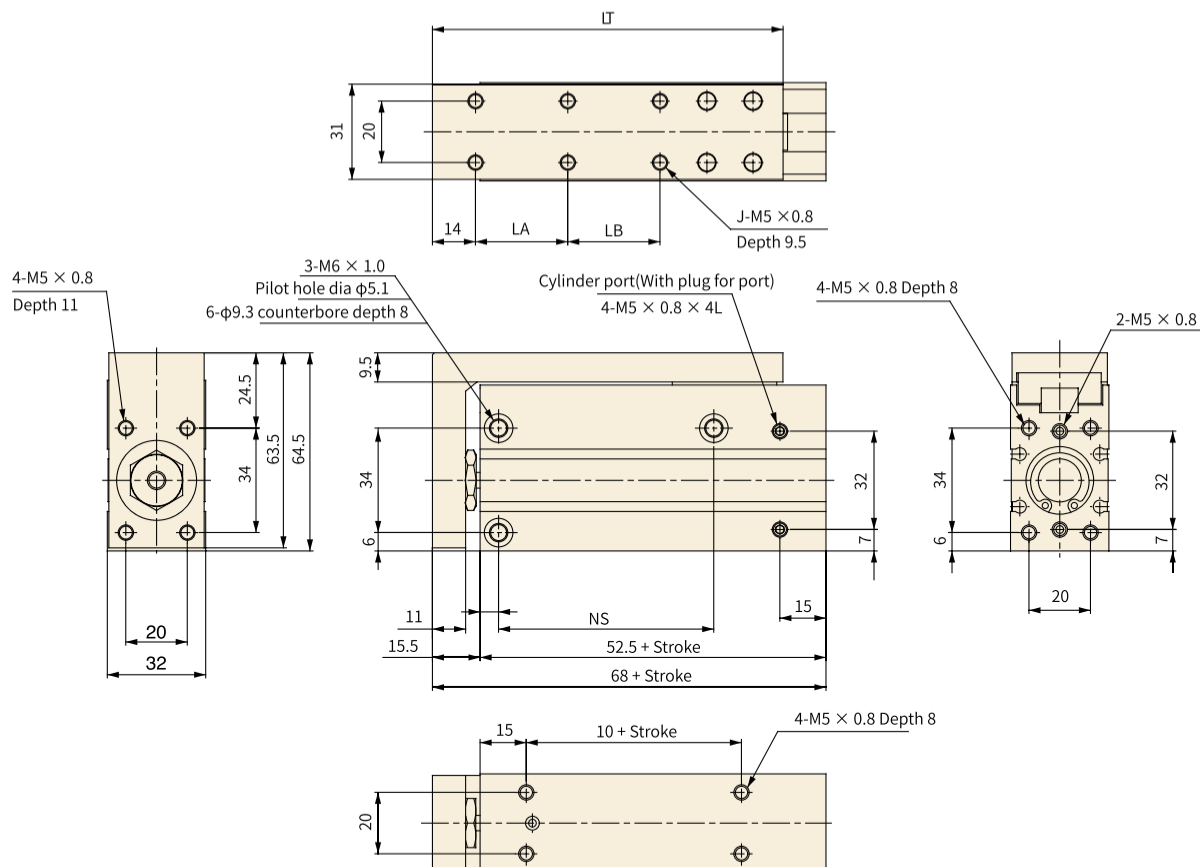
JXH16



Stroke	J	LA	LB	IT	NS
5	4	10	—	58	20
10	4	10	—	58	20
15	4	20	—	68	30
20	4	20	—	68	30
25	4	30	—	78	40
30	4	30	—	78	40
40	6	20	20	88	50
50	6	25	25	98	60
60	6	30	30	108	60

Overall Dimension

JXH20



Stroke	J	LA	LB	IT	NS
5	4	10	—	64	20
10	4	10	—	64	20
15	4	20	—	74	25
20	4	20	—	74	25
25	4	30	—	84	40
30	4	30	—	84	40
40	6	20	20	94	50
50	6	25	25	104	70
60	6	30	30	114	70

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JXH Series

Compact Slide Table Cylinder

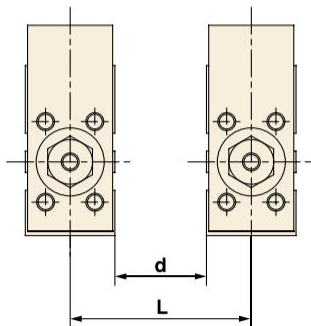


Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Overall Dimension

Operating Precautions ⚠

1. When multiple cylinders are installed, a certain distance between the cylinders is required to avoid misoperation. For details, see the following table



Model	D	L
JXH6	5	21
JXH10	5	25
JXH16	10	35
JXH20	15	47

2. If the cylinder is moving by the external limit, the reaction force generated at the limit should coincide with the axial direction of the cylinder piston rod (as shown in Figure 1), if it does not coincide, it will produce a large torque and reduce the service life, such as the guide rail will be damaged (as shown in Figure 2).

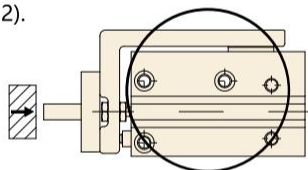


Figure 1

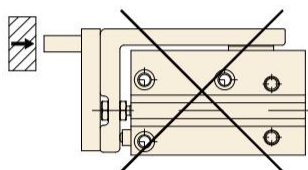
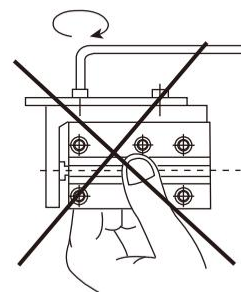
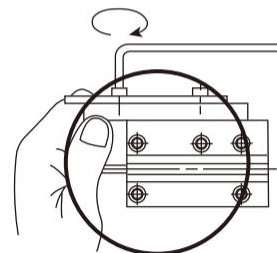
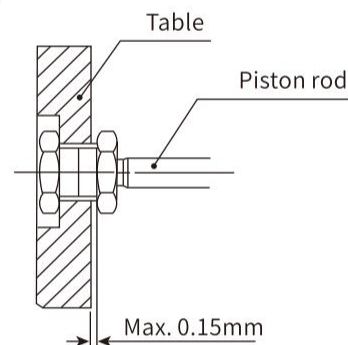


Figure 2

3. Hold the table when fastening work pieces to it with bolts etc. If the body is held while tightening bolts etc., the guide section will be subjected to a large moment, and there may be a loss of precision.



4. Since the connection between the piston rod and table is a floating mechanism, the table has backlash of 0.15mm or less in the stroke direction. (Refer to the figure below.)





JXQ Series Specifications

Bore Size(mm)	6	8	12	16	20	25
	φ6x2 amount to φ8	φ8x2 amount to φ11	φ16x2 amount to φ17	φ16x2 amount to φ22	φ20x2 amount to φ28	φ25x2 amount to φ35
Working Medium	Air					
Action	Double acting					
Max. Operating Pressure	0.7MPa					
Min. Operating Pressure	0.15MPa					
Ambient And Fluid Temperature	-10~60°C (with no condensation)					
Piston Speed	50~500mm/s					
Cushing	Rubber buffer (standard)					
Stroke Length Tolerance	+1 0					
Lubrication	No need, if needed, please use Turbine oil No.1 ISOVG32					
Sensor Model	JEL-07					
Piping Size	M5×0.8				1/8	

Feature

1. Small size, strong, high precision.
2. Combination of compact cylinder and linear guide.
3. Double cylinder design, double power output.
4. Adjustable stroke (with adjusting stroke device).
5. Mountable sensor.

Cylinder Theoretical Output Sheet (Double Cylinder Design)

Bore Size (mm)	Action Direction	Compression Area (mm ²)	Operating Pressure(Mpa)					
			0.2	0.3	0.4	0.5	0.6	0.7
Ø6×2	OUT	57	11	17	23	29	34	40
	IN	42	8	13	17	21	25	29
Ø8×2	OUT	101	20	30	40	51	61	71
	IN	75	15	23	30	38	45	53
Ø12×2	OUT	226	45	68	90	113	136	158
	IN	170	34	51	68	85	102	119
Ø16×2	OUT	402	80	121	161	201	241	281
	IN	302	60	91	121	151	181	211
Ø20×2	OUT	628	126	188	251	314	377	440
	IN	471	94	141	188	236	283	330
Ø25×2	OUT	982	196	295	393	491	589	687
	IN	756	151	227	302	378	454	

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JXQ Series

Slide Table Cylinder(Linear Guide)



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

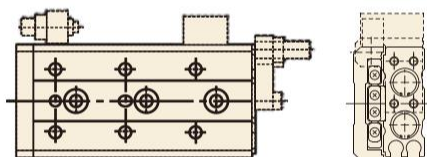
JGP

JSQB

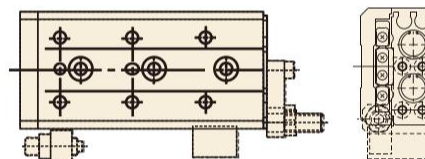
Sensor

Ordering Code

Standard Type (Nil)



Symmetric Type (with L)



JXQ

12



X

50

AS

1

2

3

4

1 Bore Size	2 Model	3 Stroke	4 Adjusting Device	
	Nil-standard L-symmetric		Nil	Nil
			AS	Stroke adjuster at extension end
			AT	Stroke adjuster at retraction end
			A	Stroke adjuster at both sides
			*BS	Hydraulic buffer at extension end
			*BT	Hydraulic buffer at retraction end
			*B	Hydraulic buffer at both sides
			AB	Stroke adjuster at extension end and hydraulic buffer at retraction end
			BA	Stroke adjuster at retraction end and hydraulic buffer at extension end

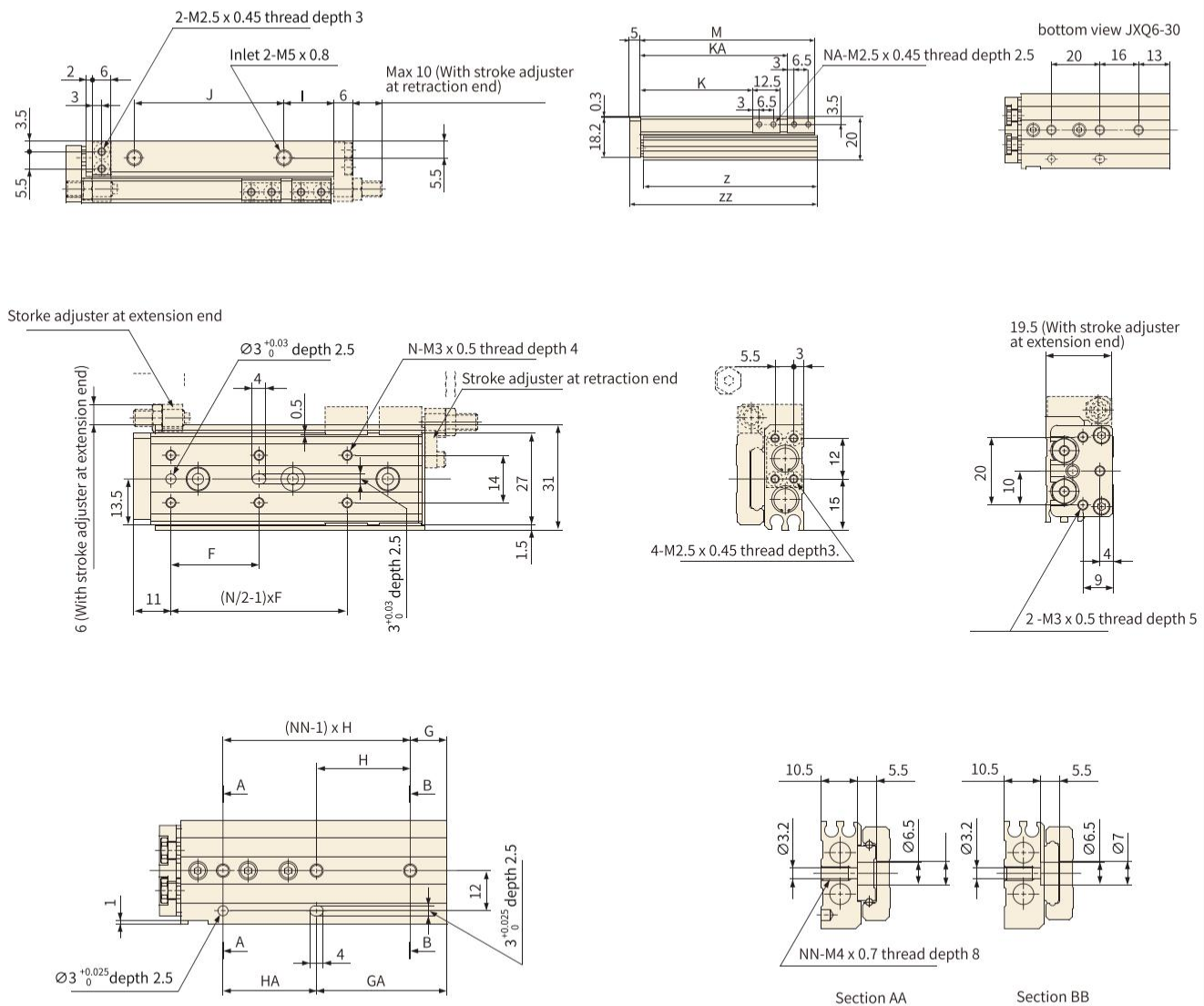
Stroke/Sensor Option

Bore Size(mm)	Standard Stroke	Sensor
6	10,20,30,40,50	JEL-07D
8	10,20,30,40,50,75	
12	10,20,30,40,50,75,100	
16	10,20,30,40,50,75,100,125	
20,25	10,20,30,40,50,75,100,125,150	

[Note] Sensor model please refer to P173 for the specific ordering code.

Overall Dimension

JXQ6



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXQ6-10	22	4	6	23	2	13	16	9	17	21.5	—	4	42	41.5	48
JXQ6-20	25	4	13	26	2	13	26	9	27	31.5	—	4	52	51.5	58
JXQ6-30	21	6	—	—	3	29	20	9	37	41.5	—	4	62	61.5	68
JXQ6-40	26	6	11	28	3	39	28	16	48	51.5	67.5	8	80	79.5	86
JXQ6-50	27	6	21	28	3	49	28	9	65	61.5	77.5	8	90	89.5	96

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

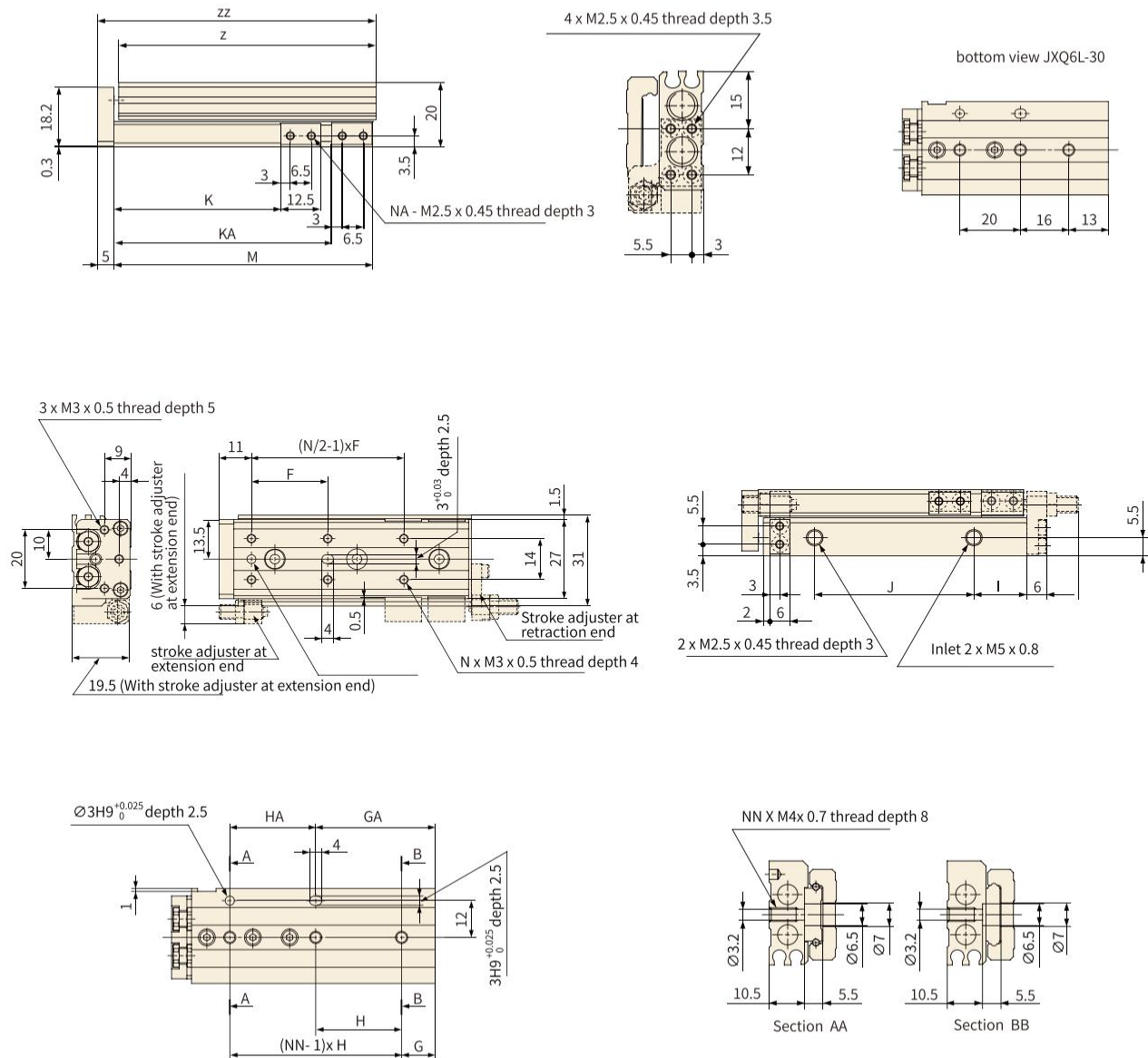
JXQ Series

Slide Table Cylinder(Linear Guide)



Overall Dimension

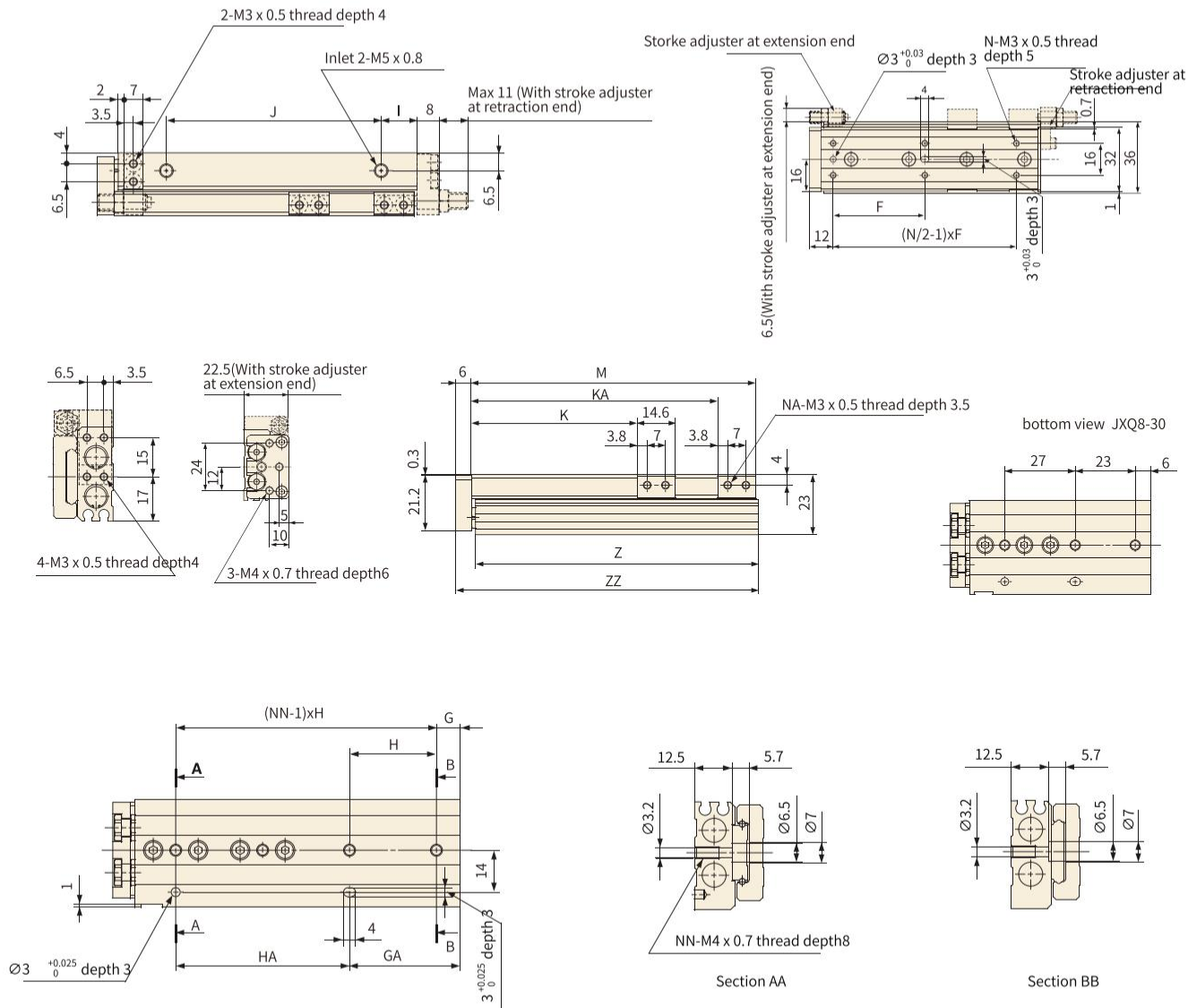
JXQ6L



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXQ6L-10	22	4	6	23	2	13	16	9	17	21.5	—	4	42	41.5	48
JXQ6L-20	25	4	13	26	2	13	26	9	27	31.5	—	4	52	51.5	58
JXQ6L-30	21	6	—	—	3	29	20	9	37	41.5	—	4	62	61.5	68
JXQ6L-40	26	6	11	28	3	39	28	16	48	51.5	67.5	8	80	79.5	86
JXQ6L-50	27	6	21	28	3	49	28	9	65	61.5	77.5	8	90	89.5	96

Overall Dimension

JXQ8



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXQ8-10	25	4	7	25	2	13	19	11	17	23.5	—	4	46	45.5	53
JXQ8-20	25	4	14	28	2	14	28	10	28	33.5	—	4	56	55.5	63
JXQ8-30	26	6	—	—	3	29	27	12	40	43.5	—	4	70	69.5	77
JXQ8-40	32	6	8	31	3	39	31	14	52	53.5	69.4	8	84	83.5	91
JXQ8-50	46	6	8	29	4	37	58	13	78	63.5	94.4	8	109	108.5	116
JXQ8-75	50	6	31	30	4	61	60	12	105	88.5	120.4	8	135	134.5	142

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

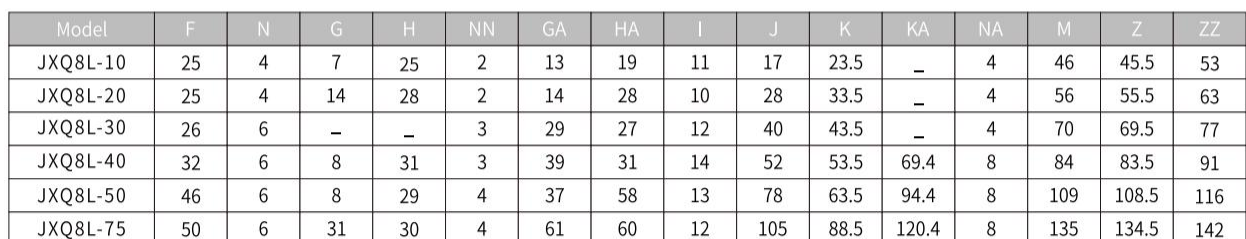
JXS

TN

JGP

JSQB

Sensor

 JXQ8L

 JXQ12

2-|P140

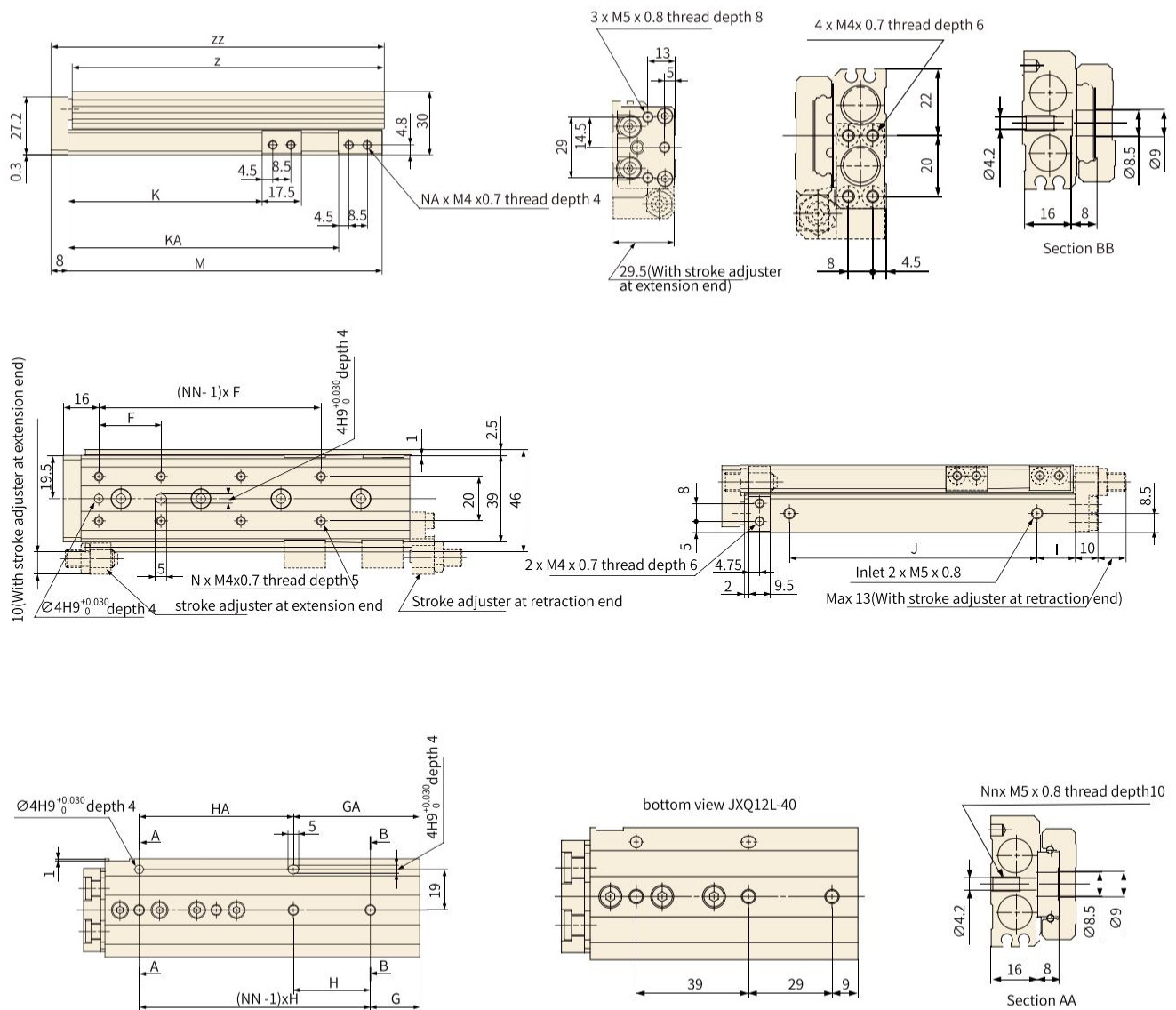
JXQ Series

Slide Table Cylinder(Linear Guide)



Overall Dimension

JXQ12L



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXQ12L-10	28	4	18	32	2	18	32	12	17	27	49	8	67	66	76
JXQ12L-20	28	4	18	32	2	18	32	12	27	37	—	4	67	66	76
JXQ12L-30	38	4	20	40	2	20	40	14	37	47	—	4	77	76	86
JXQ12L-40	34	6	—	—	3	38	39	15	48	57	76	8	94	93	103
JXQ12L-50	34	6	9	39	3	48	39	13	65	67	86	8	104	103	113
JXQ12L-75	36	8	23	36	4	59	72	17	65	92	130	8	148	147	157
JXQ12L-100	36	10	12	36	5	84	72	17	65	117	155	8	173	172	182

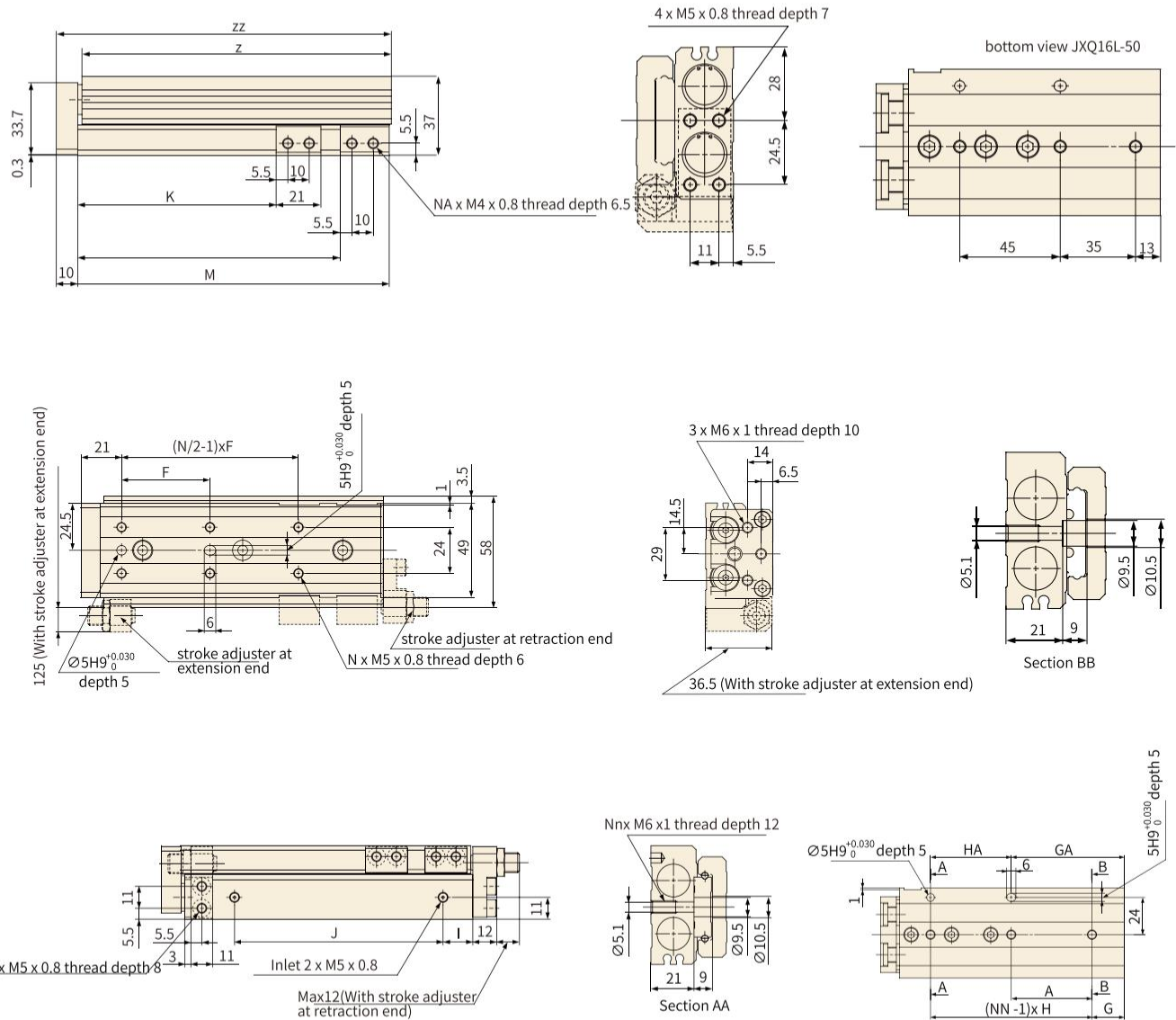
JXQ Series

Slide Table Cylinder(Linear Guide)



Overall Dimension

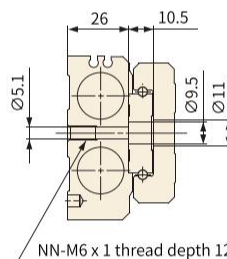
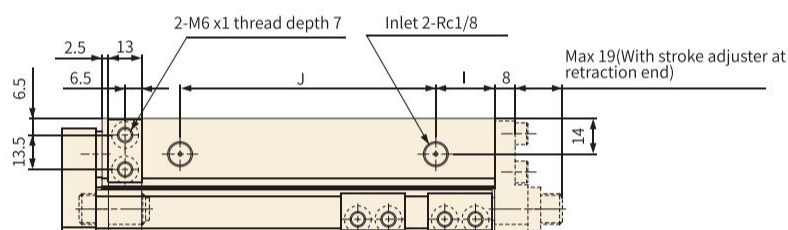
JXQ16L



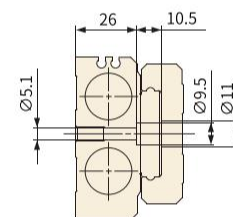
Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXQ16L-10	38	4	18	39	2	18	39	12	40	28	57	8	78	77	89
JXQ16L-20	38	4	18	39	2	18	39	12	40	38	—	4	78	77	89
JXQ16L-30	48	4	19	48	2	19	48	12	50	48	—	4	88	87	99
JXQ16L-40	58	4	19	58	2	19	58	12	60	58	—	4	987	97	109
JXQ16L-50	40	6	—	—	3	48	45	20	68	68	93	8	114	113	125
JXQ16L-75	46	6	21	52	3	73	52	15	105	93	125	8	146	145	157
JXQ16L-100	44	8	36	44	4	80	88	18	145	118	168	8	189	188	200
JXQ16L-125	44	10	17	44	5	105	88	23	165	143	193	8	214	213	225

Overall Dimension

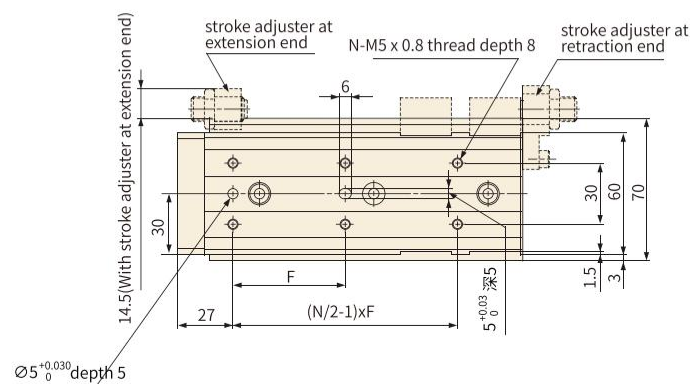
JXQ20



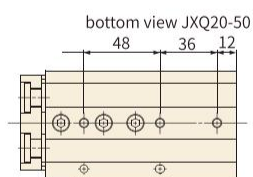
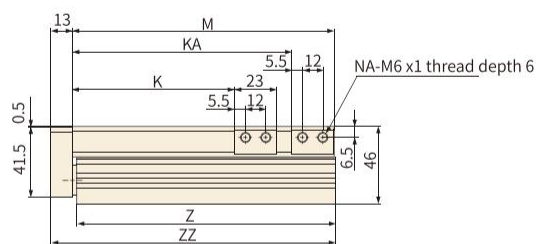
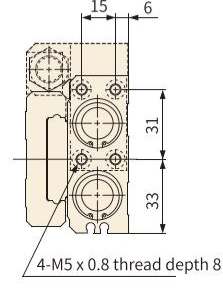
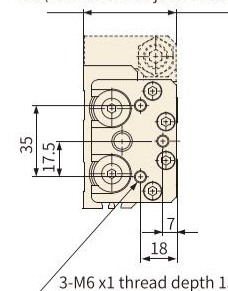
Section AA



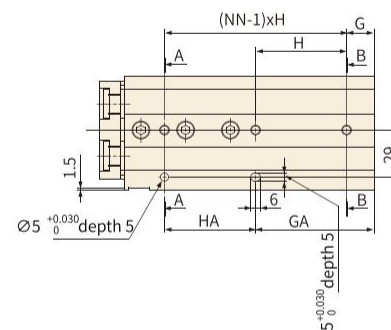
Section BB



45.5(With stroke adjuster at extension end)



bottom view JXQ20-50



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXQ20-10	45	4	22	46	2	18	50	16	46	32	70	8	94	92.5	108
JXQ20-20	40	4	22	46	2	18	50	16	46	42	70	8	94	92.5	108
JXQ20-30	48	4	22	46	2	18	50	16	46	52	—	4	94	92.5	108
JXQ20-40	58	4	22	56	2	22	56	16	56	62	—	4	104	102.5	118
JXQ20-50	42	6	—	—	3	48	48	18	72	72	98	8	122	120.5	136
JXQ20-75	55	6	17	56	3	73	56	23	100	97	131	8	155	153.5	169
JXQ20-100	50	8	18	56	4	74	112	25	155	122	188	8	212	210.5	226
JXQ20-125	55	8	37	59	4	96	118	18	190	147	216	8	240	238.5	254
JXQ20-150	62	8	56	62	4	118	124	21	215	172	244	8	268	266.5	282

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JXQ Series

Slide Table Cylinder(Linear Guide)



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

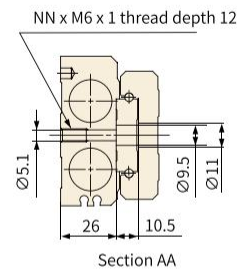
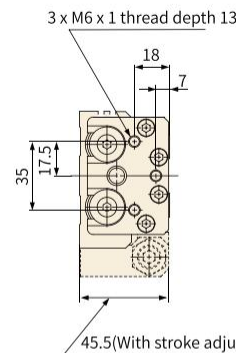
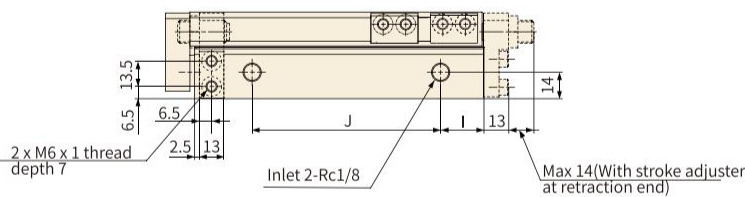
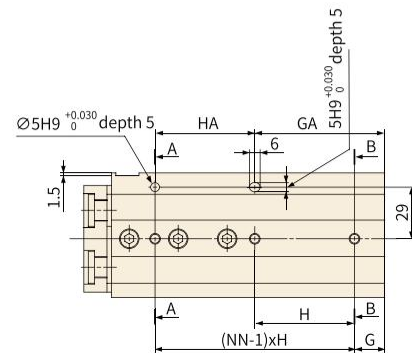
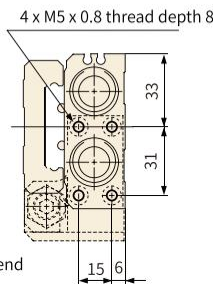
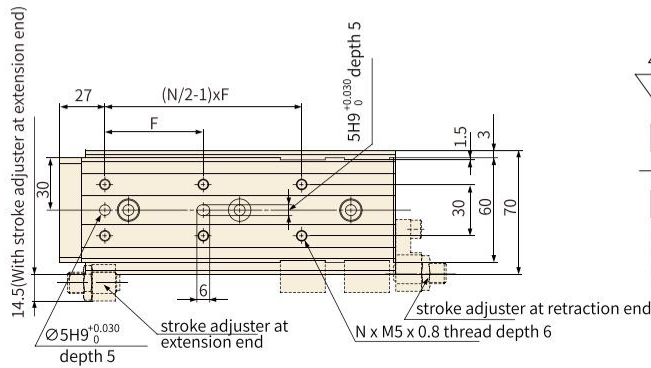
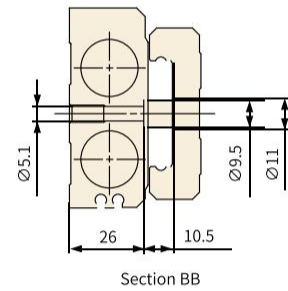
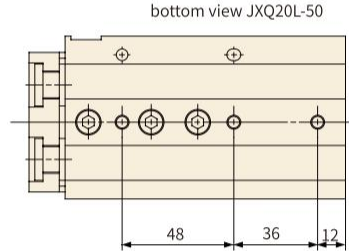
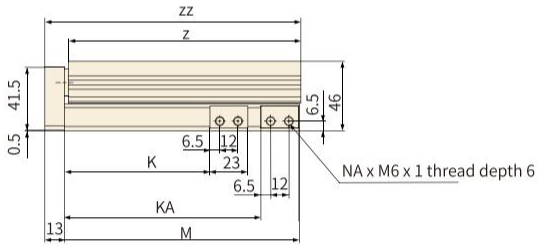
JGP

JSQB

Sensor

Overall Dimension

JXQ20L



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXQ20L-10	45	4	22	46	2	18	50	16	46	32	70	8	94	92.5	108
JXQ20L-20	40	4	22	46	2	18	50	16	46	42	70	8	94	92.5	108
JXQ20L-30	48	4	22	46	2	18	50	16	46	52	—	4	94	92.5	108
JXQ20L-40	58	4	22	56	2	22	56	16	56	62	—	4	104	102.5	118
JXQ20L-50	42	6	—	—	3	48	48	18	72	72	98	8	122	120.5	136
JXQ20L-75	55	6	17	56	3	73	56	23	100	97	131	8	155	153.5	169
JXQ20L-100	50	8	18	56	4	74	112	25	155	122	188	8	212	210.5	226
JXQ20L-125	55	8	37	59	4	96	118	18	190	147	216	8	240	238.5	254
JXQ20L-150	62	8	56	62	4	118	124	21	215	172	244	8	268	266.5	282

JXQ Series

Slide Table Cylinder(Linear Guide)



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

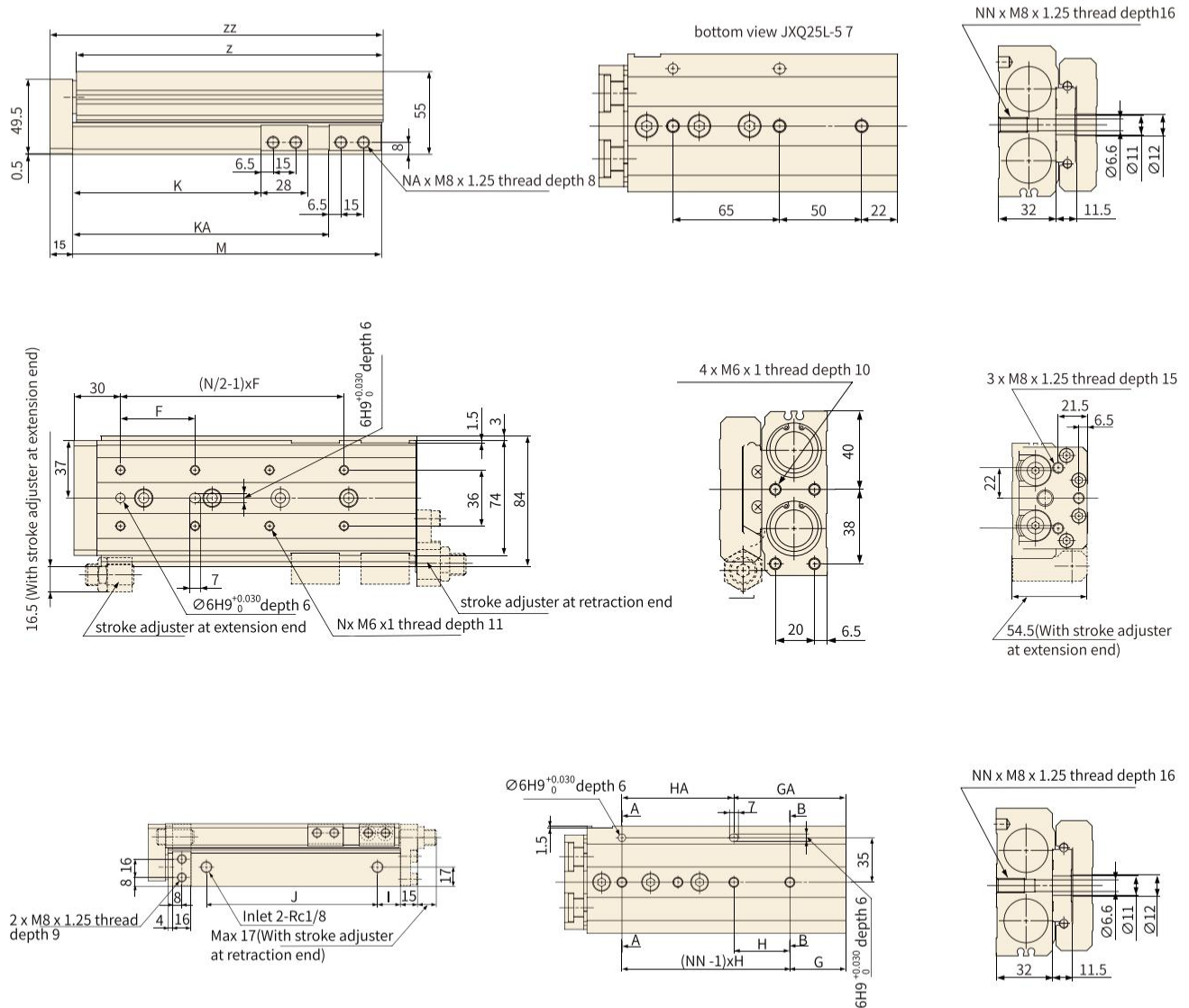
JGP

JSQB

Sensor

Overall Dimension

JXQ25L



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXQ25L-10	55	4	23	55	2	23	55	16	56	36.5	77.5	8	107	105.5	123
JXQ25L-20	46	4	23	55	2	23	55	16	56	46.5	77.5	8	107	105.5	123
JXQ25L-30	55	4	23	55	2	23	55	16	56	56.5	—	4	107	105.5	123
JXQ25L-40	65	4	23	65	2	23	65	16	66	66.5	—	4	117	115.5	133
JXQ25L-50	75	4	32	80	2	32	80	16	90	76.5	111.5	8	141	139.5	157
JXQ25L-75	60	6	—	—	3	72	65	31	100	101.5	136.5	8	166	164.5	182
JXQ25L-100	48	8	44	44	4	88	88	20	150	126.5	175.5	8	205	203.5	221
JXQ25L-125	60	8	31	66	4	97	132	18	205	151.5	228.5	8	258	256.5	274
JXQ25L-150	65	8	56	66	4	122	132	18	230	176.5	253.5	8	283	281.5	299

JXS Series

Specification



Bore Size(mm)	6	8	12	16	20	25
	φ6x2 amount to φ8	φ8x2 amount to φ11	φ12x2 amount to φ17	φ16x2 amount to φ22	φ20x2 amount to φ28	φ25x2 amount to φ35
Working Medium	Air					
Operation	Double acting					
Max. Operating Pressure	0.7MPa					
Min. Operating Pressure	0.15MPa					
Ambient And Fluid Temperature	-10~+60°C (with no condensation)					
Piston Velocity	50~500mm/s					
Cushing	Rubber buffer on both ends					
Lubrication	Turbine oil No.1 ISOVG32					
Piping Size	M3×0.5		M5×0.8			1/8

Feature

1. Double cylinder design, double power output, thin volume
2. The combination of cylinder and worktable reduces the overall size
3. Use cross roller design, low friction, without gap between cylinder and working table, suitable precision installation
4. Can be mounted from three directions
5. Built-in magnetic ring, can be installed sensor
6. Stroke adjusters are available (0~5mm), djuster on extension end/retraction end/both ends

Selection Reference Table (Double Cylinder Design)

Bore Size (mm)	Operating Direction	Piston Area (mm ²)	Operating Pressure (Mpa)					
			0.2	0.3	0.4	0.5	0.6	0.7
Ø6×2	OUT	57	11	17	23	29	34	40
	IN	42	8	13	17	21	25	29
Ø8×2	OUT	101	20	30	40	51	61	71
	IN	75	15	23	30	38	45	53
Ø12×2	OUT	226	45	68	90	113	136	158
	IN	170	34	51	68	85	102	119
Ø16×2	OUT	402	80	121	161	201	241	281
	IN	302	60	91	121	151	181	211
Ø20×2	OUT	628	126	188	251	314	377	440
	IN	471	94	141	188	236	283	330
Ø25×2	OUT	982	196	295	393	491	589	687
	IN	756	151	227	302	378	454	529

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JXS Series

Air Slide Table Cylinder (Cross Roller Type)



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

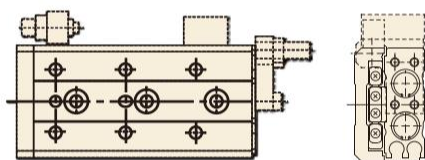
JGP

JSQB

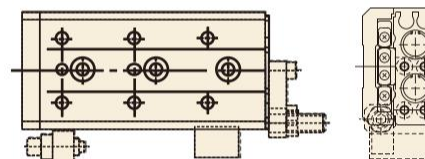
Sensor

Ordering Code

Standard Type (Nil)



Symmetric Type (with L)



JXS

12



X

50

AS

1 Bore Size	2 Model	3 Stroke	4 Adjusting Device	
	Nil-standard L-symmetric		Nil	Nil
			AS	Stroke adjuster at extension end
			AT	Stroke adjuster at retraction end
			A	Stroke adjuster at both sides
			*BS	Hydraulic buffer at extension end
			*BT	Hydraulic buffer at retraction end
			*B	Hydraulic buffer at both sides
			AB	Stroke adjuster at extension end and hydraulic buffer at retraction end
			BA	Stroke adjuster at retraction end and hydraulic buffer at extension end

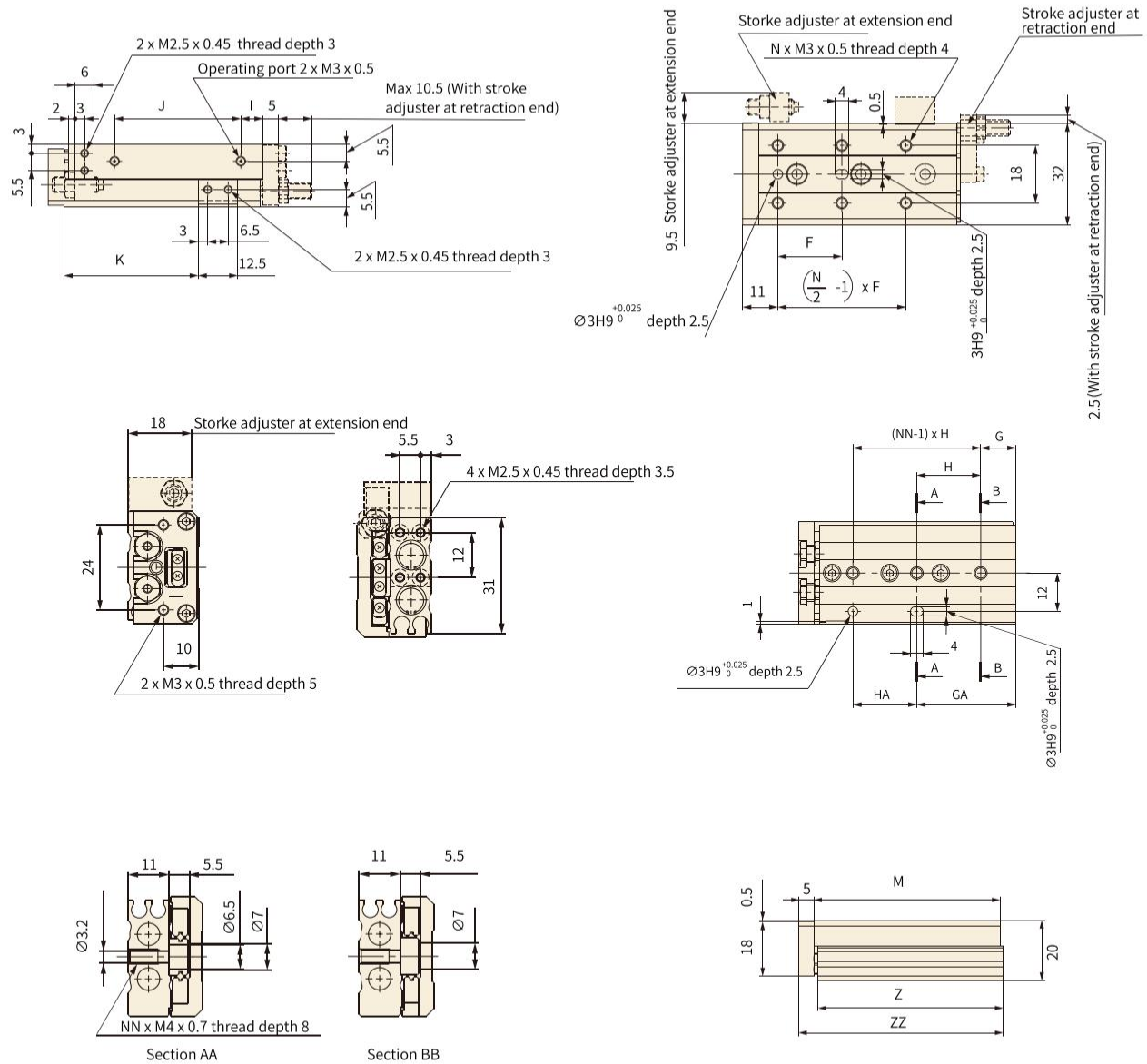
Sensor option

Bore Size	Stroke										Function Optional	Sensor
	10	20	30	40	50	75	100	125	150		Stroke Adjuster	Direct Mounting
Ø6×2	●	●	●	●	●						●	JEL-07D
Ø8×2	●	●	●	●	●	●					●	
Ø12×2	●	●	●	●	●	●	●				●	
Ø16×2	●	●	●	●	●	●	●	●			●	
Ø20×2	●	●	●	●	●	●	●	●	●		●	
Ø25×2	●	●	●	●	●	●	●	●	●	●	●	

[Note] Sensor model please refer to P173 for the specific ordering code.

Overall Dimension

JXS6



Model	F	N	G	H	NN	GA	HA	I	J	K	M	Z	ZZ
JXS6-10	20	4	6	25	2	11	20	10	17	22.5	42	41.5	48
JXS6-20	30	4	6	35	2	21	20	10	27	32.5	52	51.5	58
JXS6-30	20	6	11	20	3	31	20	7	40	42.5	62	61.5	68
JXS6-40	28	6	13	30	3	43	30	19	50	52.5	84	83.5	90
JXS6-50	38	6	17	24	4	41	48	25	60	62.5	100	99.5	106

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

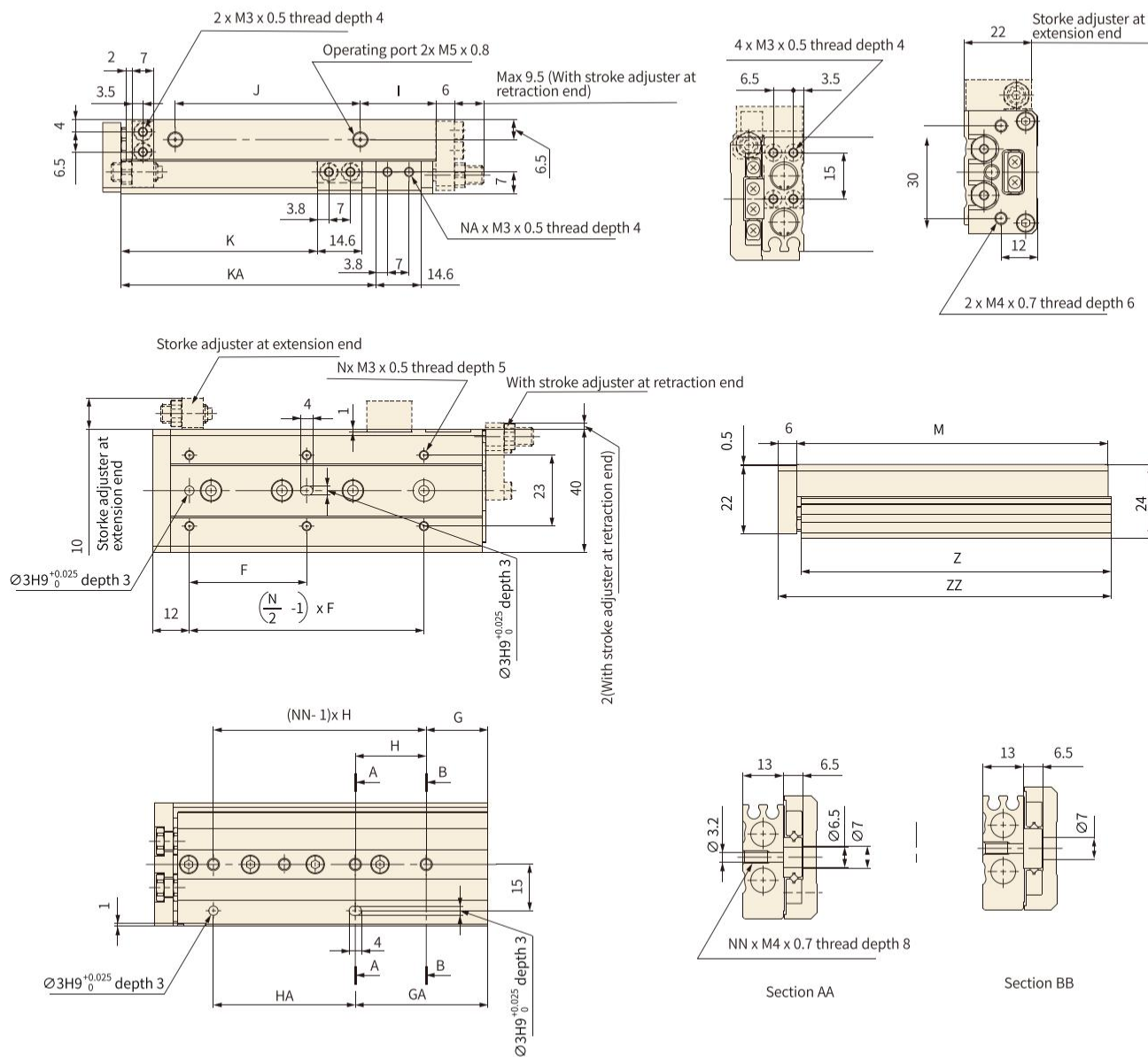
JXS Series

Air Slide Table Cylinder (Cross Roller Type)



Overall Dimension

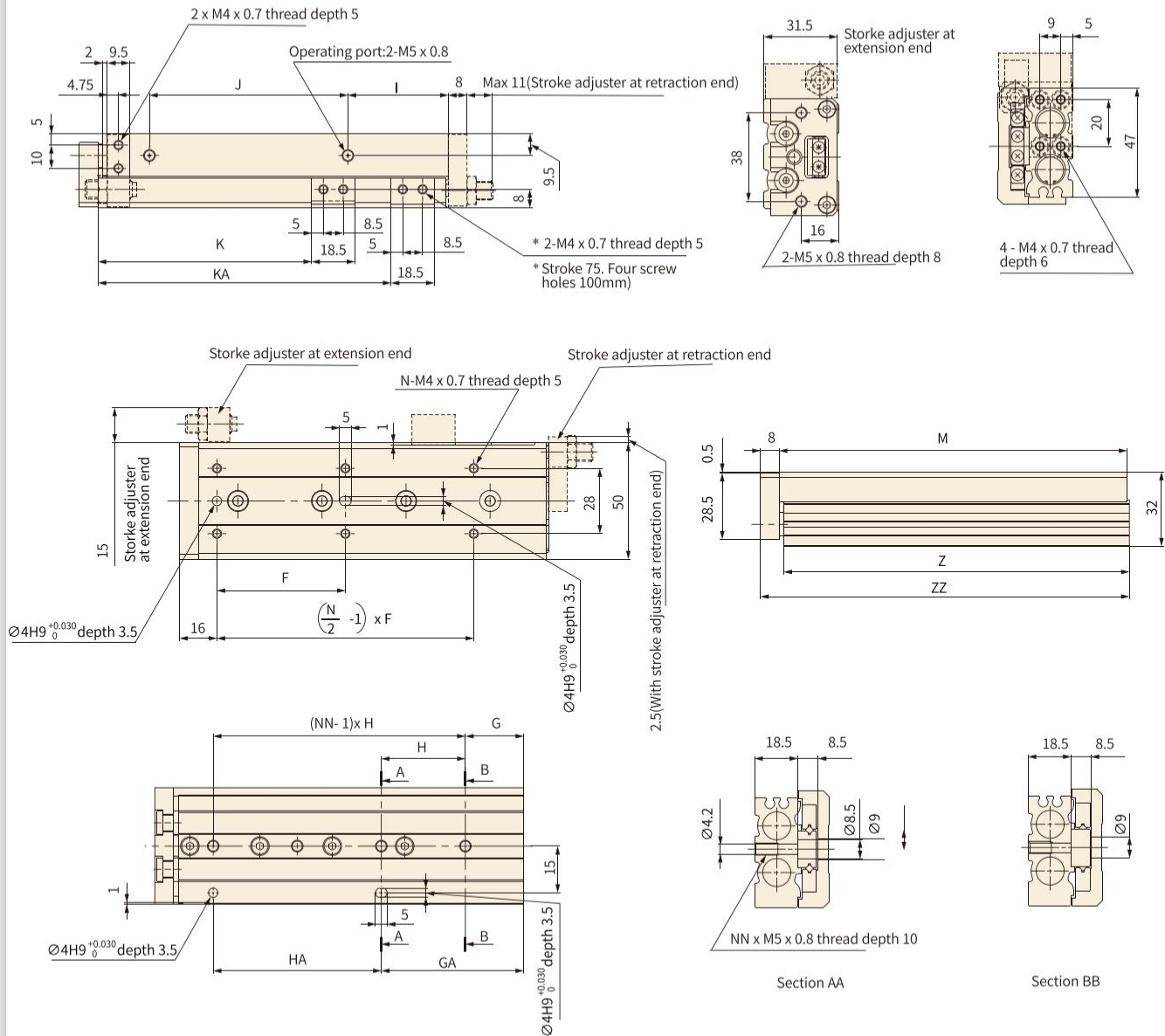
JXS8



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXS8-10	25	4	9	28	2	17	20	13	20	23.5	—	2	49	48.5	56
JXS8-20	30	4	12	30	2	12	30	8.5	29.5	33.5	—	2	54	53.5	61
JXS8-30	40	4	13	20	3	33	20	9.5	439	43.5	—	2	65	64.5	72
JXS8-40	50	6	15	28	3	43	28	10.5	56	53.5	—	2	83	82.5	90
JXS8-50	38	6	20	23	4	43	46	24.5	60	63.5	82.5	4	101	100.5	108
JXS8-75	50	6	27	28	5	83	56	38.5	96	88.5	132.5	4	151	150.5	158

Overall Dimension

JXS12



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXS12-10	25	4	15	40	2	15	40	10	40	26.5	—	2	71	70	80
JXS12-20	35	4	15	40	2	15	40	10	40	36.5	—	2	71	70	80
JXS12-30	35	4	15	40	2	15	40	10	40	46.5	—	2	71	70	80
JXS12-40	50	6	17	25	3	42	25	10	52	56.5	—	2	83	82.5	92
JXS12-50	35	6	15	36	3	51	36	22	60	66.5	—	2	103	102	112
JXS12-75	55	6	25	36	4	61	72	43	85	91.5	125.5	4	149	148	158
JXS12-100	65	6	35	38	5	111	76	52	130	116.5	179.5	4	203	202	212

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

JXS Series

Air Slide Table Cylinder (Cross Roller Type)



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

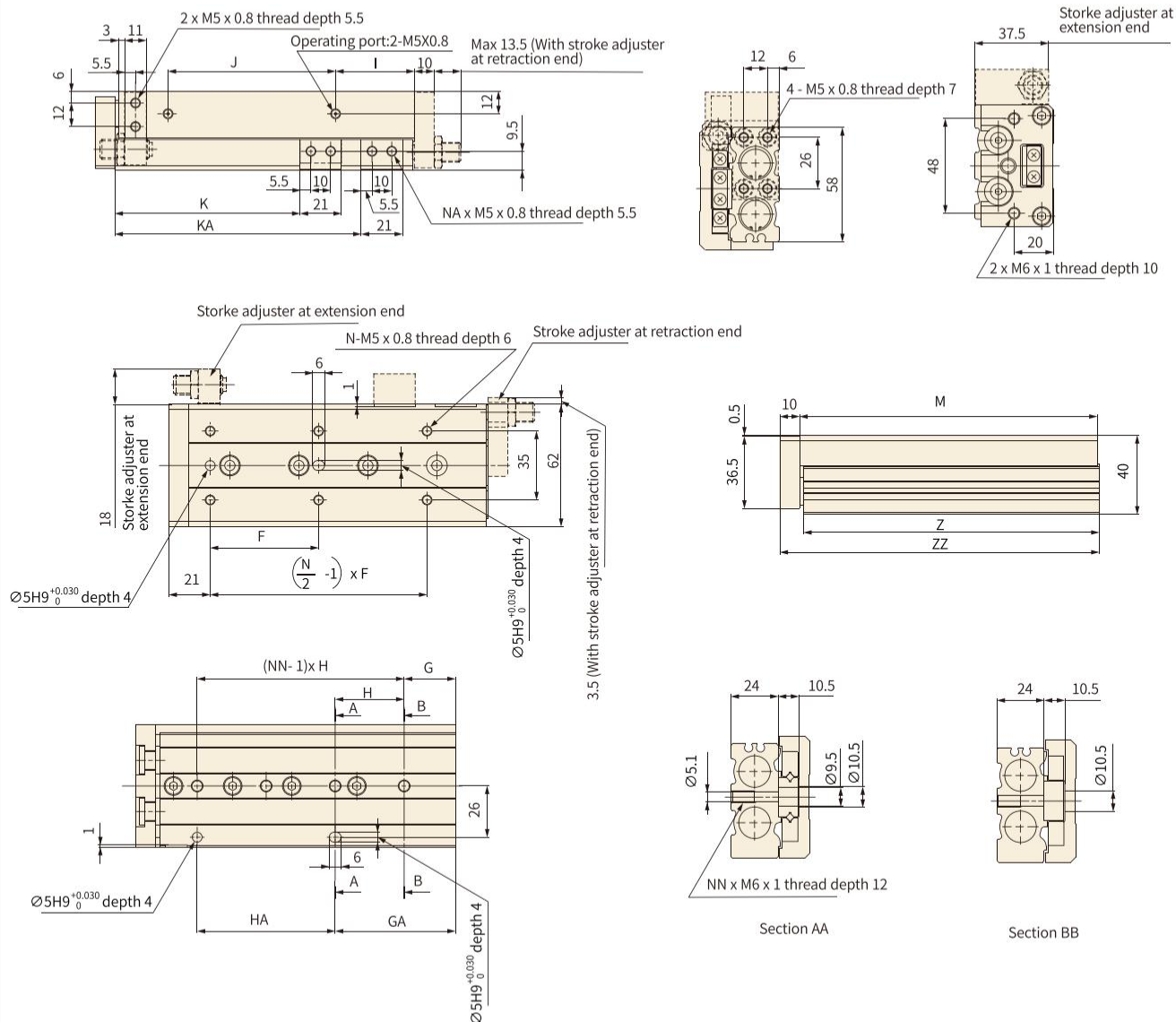
JGP

JSQB

Sensor

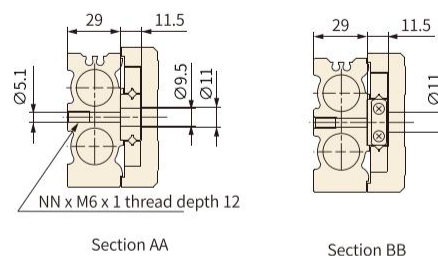
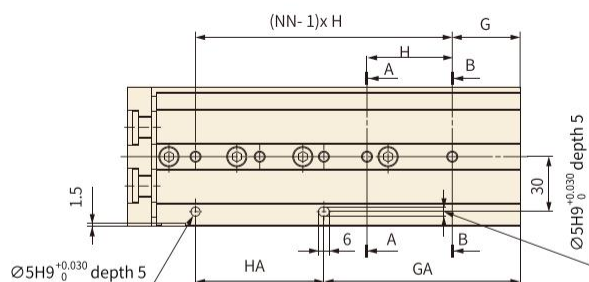
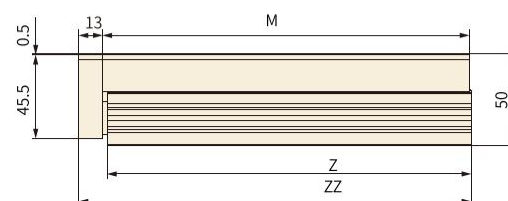
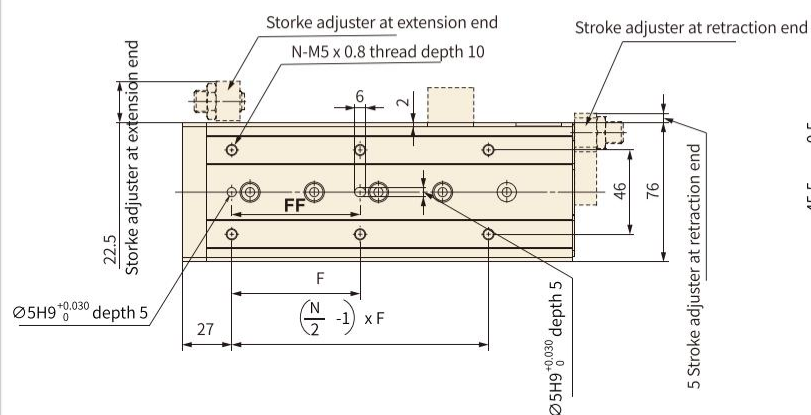
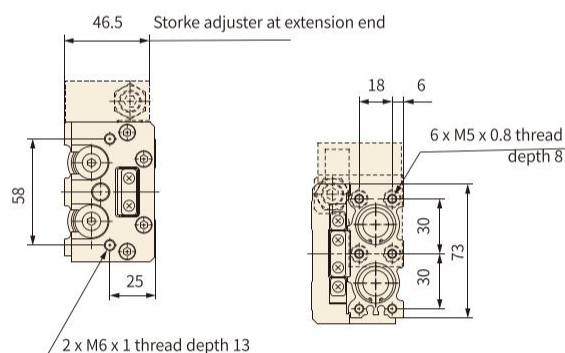
Overall Dimension

JXS16



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXS16-10	35	4	16	40	2	16	40	10	40	29	—	2	76	75	87
JXS16-20	35	4	16	40	2	16	40	10	40	39	—	2	76	75	87
JXS16-30	35	4	16	40	2	16	40	10	40	49	—	2	76	75	87
JXS16-40	40	4	16	50	3	16	50	10	50	59	—	2	86	75	97
JXS16-50	30	6	21	30	3	51	30	15	60	69	—	2	101	100	112
JXS16-75	55	6	26	35	4	61	70	40	85	94	125	4	151	150	162
JXS16-100	65	6	39	35	5	109	70	55	118	119	173	4	199	198	210
JXS16-125	70	8	19	35	7	159	70	68	155	144	223	4	249	248	260

JXS20



Model	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXS20-10	50	40	4	15	45	2	25	35	10	44	31	—	2	83	81.5	97
JXS20-20	50	40	4	15	45	2	25	35	10	44	41	—	2	83	81.5	97
JXS20-30	50	40	4	15	45	2	25	35	10	44	51	—	2	83	81.5	97
JXS20-40	60	50	4	15	55	3	35	35	10	54	61	—	2	93	91.5	107
JXS20-50	35	35	6	45	35	3	50	35	10	69	71	—	2	108	106.5	122
JXS20-75	60	60	6	19	35	4	54	70	10	108	96	—	2	147	145.5	161
JXS20-100	70	70	6	37	35	5	107	70	58	113	121	169	4	200	198.5	214
JXS20-125	70	70	8	41	38	6	155	76	70	155	146	223	4	254	152.5	268
JXS20-150	80	80	8	19	44	7	195	88	87	190	171	275	4	306	304.5	320

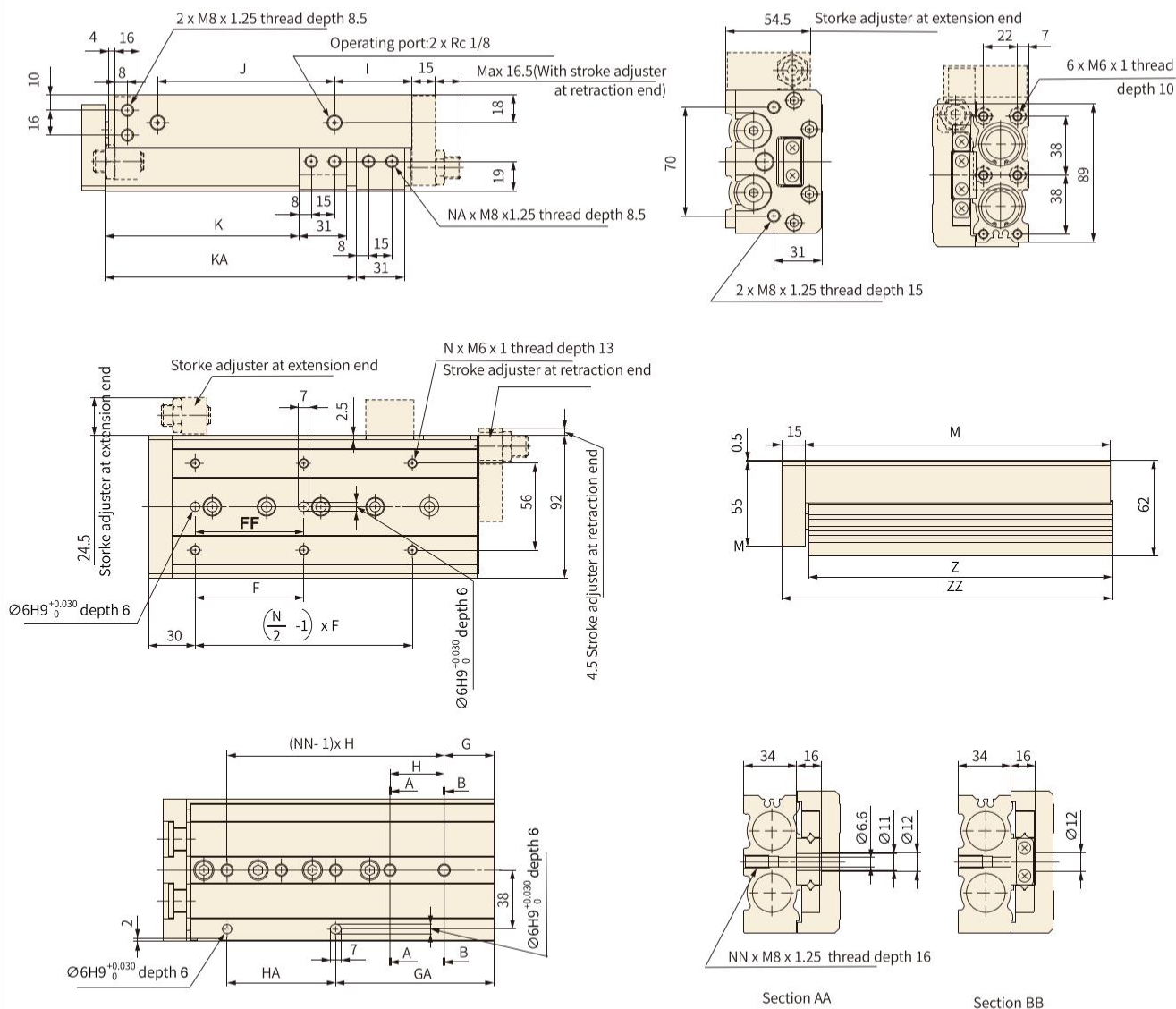
JXS Series

Air Slide Table Cylinder (Cross Roller Type)



Overall Dimension

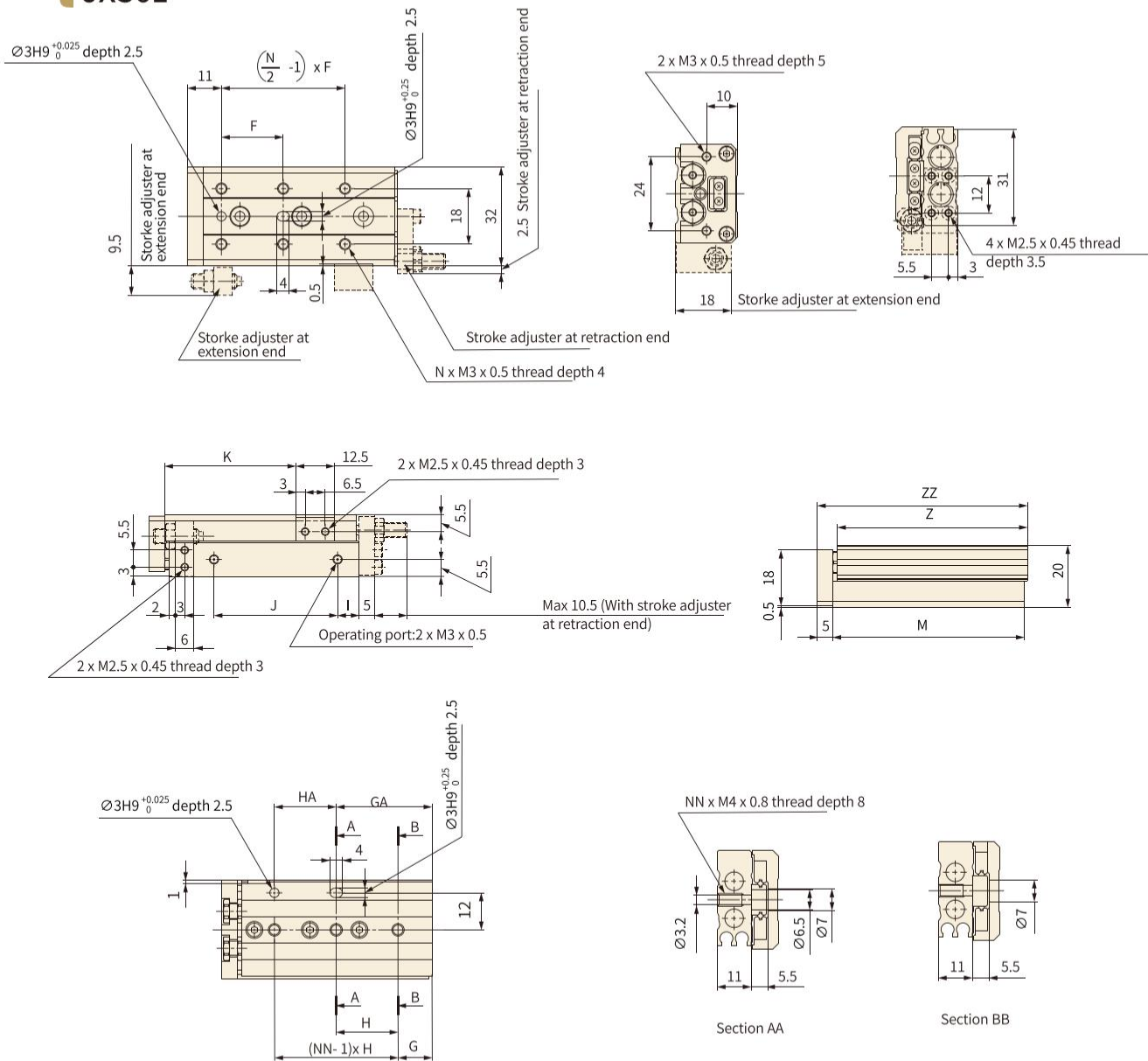
JXS25



Model	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXS25-10	50	40	4	22	45	2	22	45	12	47	35	—	2	92	90.5	108
JXS25-20	50	40	4	22	45	2	22	45	12	47	45	—	2	92	90.5	108
JXS25-30	50	40	4	22	45	2	22	45	12	47	55	—	2	92	90.5	108
JXS25-40	60	50	4	22	55	3	22	55	12	57	65	—	2	102	100.5	118
JXS25-50	35	35	6	20	35	3	55	35	12	70	75	—	2	115	113.5	131
JXS25-75	60	60	6	26	35	4	61	70	33	90	100	—	2	156	154.5	172
JXS25-100	70	70	6	32	35	5	102	70	50	114	125	162	4	197	195.5	213
JXS25-125	70	70	8	40	38	6	154	70	67	155	150	218	4	255	253.5	271
JXS25-150	80	80	8	30	40	7	190	80	82	180	175	258	4	295	293.5	311

Overall Dimension

JXS6L



Model	F	N	G	H	NN	GA	HA	I	J	K	M	Z	ZZ
JXS6-10	20	4	6	25	2	11	20	10	17	22.5	42	41.5	48
JXS6-20	30	4	6	35	2	21	20	10	27	32.5	52	51.5	58
JXS6-30	20	6	11	20	3	31	20	7	40	42.5	62	61.5	68
JXS6-40	28	6	13	30	3	43	30	19	50	52.5	84	83.5	90
JXS6-50	38	6	17	24	4	41	48	25	60	62.5	100	99.5	106

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

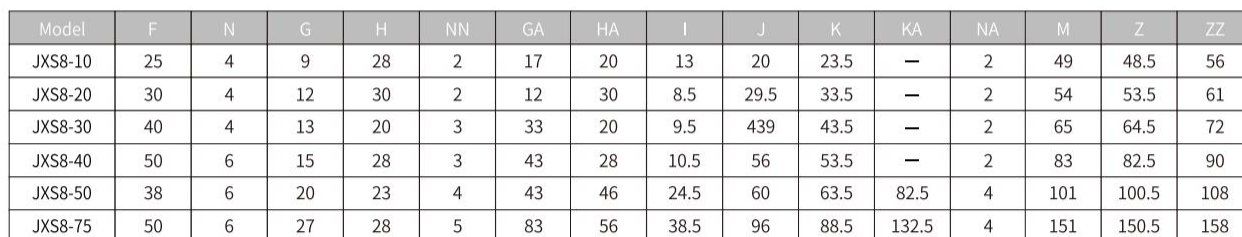
TN

JGP

JSQB

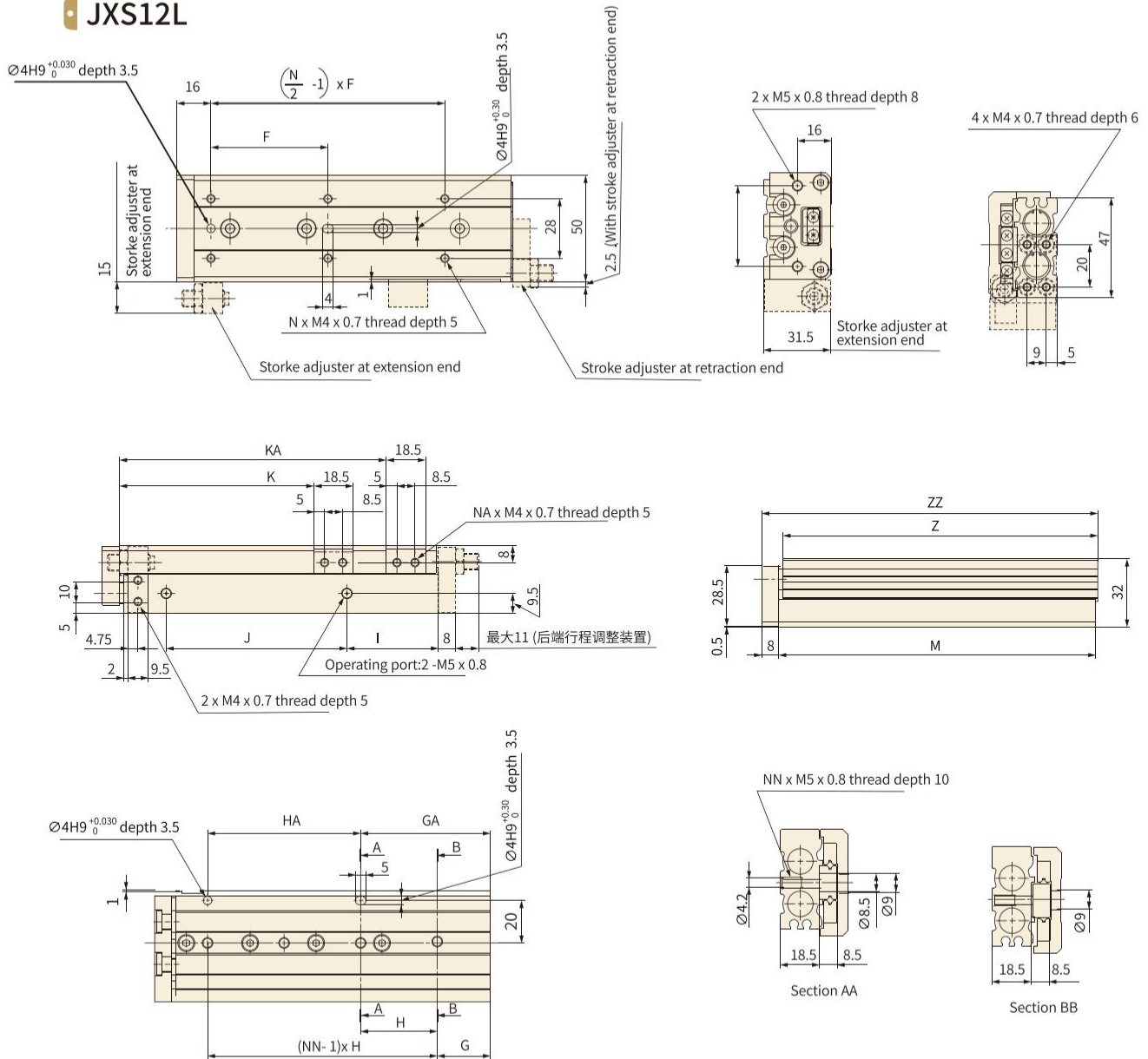
Sensor

JXS8L



Overall Dimension

JXS12L



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXS12-10	25	4	15	40	2	15	40	10	40	26.5	—	2	71	70	80
JXS12-20	35	4	15	40	2	15	40	10	40	36.5	—	2	71	70	80
JXS12-30	35	4	15	40	2	15	40	10	40	46.5	—	2	71	70	80
JXS12-40	50	6	17	25	3	42	25	10	52	56.5	—	2	83	82.5	92
JXS12-50	35	6	15	36	3	51	36	22	60	66.5	—	2	103	102	112
JXS12-75	55	6	25	36	4	61	72	43	85	91.5	125.5	4	149	148	158
JXS12-100	65	6	35	38	5	111	76	52	130	116.5	179.5	4	203	202	212

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

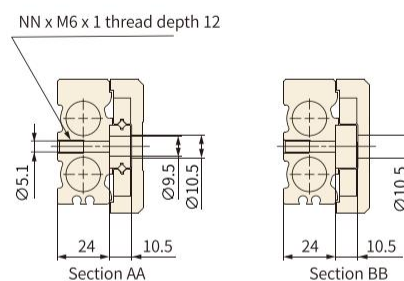
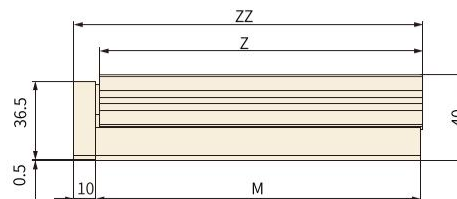
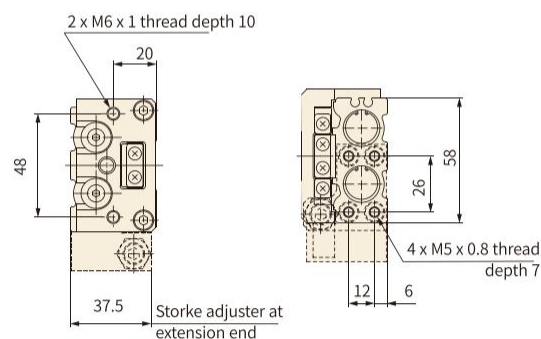
TN

JGP

JSQB

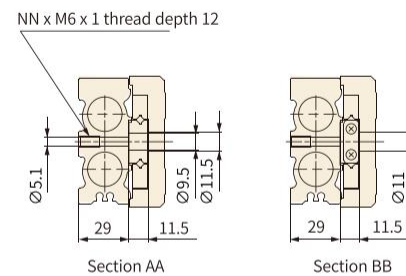
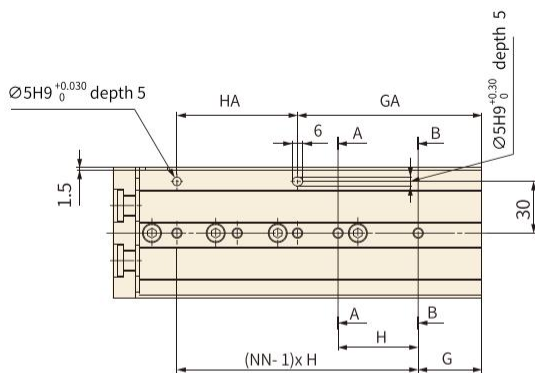
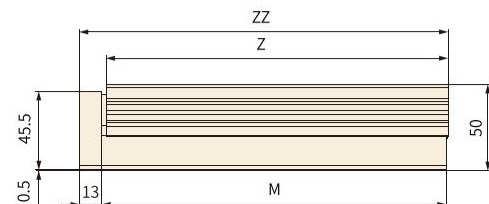
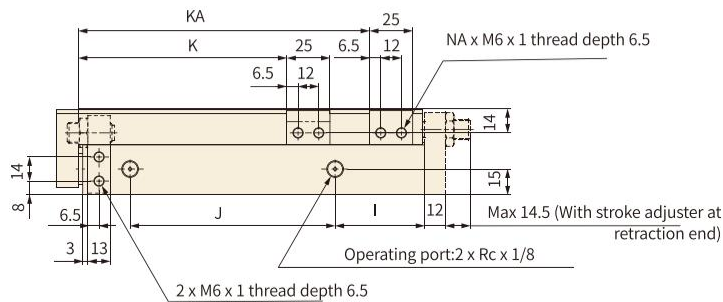
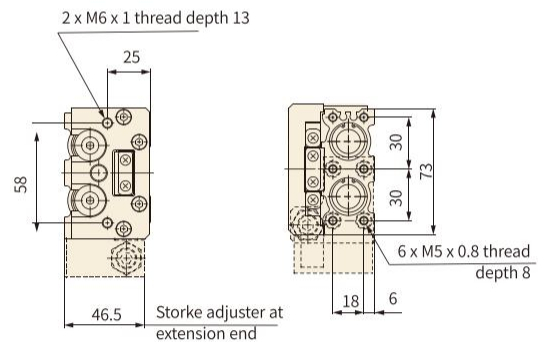
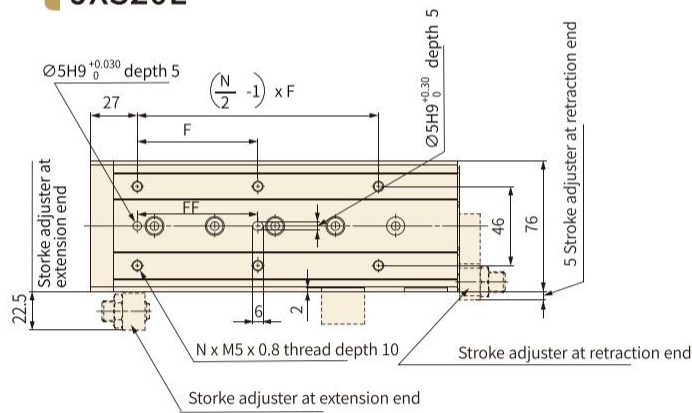
Sensor

 JXS16L

2-|P159

Overall Dimension

JXS20L



Model	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
JXS20-10	50	40	4	15	45	2	25	35	10	44	31	—	2	83	81.5	97
JXS20-20	50	40	4	15	45	2	25	35	10	44	41	—	2	83	81.5	97
JXS20-30	50	40	4	15	45	2	25	35	10	44	51	—	2	83	81.5	97
JXS20-40	60	50	4	15	55	3	35	35	10	54	61	—	2	93	91.5	107
JXS20-50	35	35	6	45	35	3	50	35	10	69	71	—	2	108	106.5	122
JXS20-75	60	60	6	19	35	4	54	70	10	108	96	—	2	147	145.5	161
JXS20-100	70	70	6	37	35	5	107	70	58	113	121	169	4	200	198.5	214
JXS20-125	70	70	8	41	38	6	155	76	70	155	146	223	4	254	152.5	268
JXS20-150	80	80	8	19	44	7	195	88	87	190	171	275	4	306	304.5	320

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor





Features

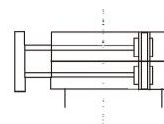
Double rod with double force for higher anti-bending and anti-twisted strength ensured durable life and perfect directional characteristic.

Ordering Code

TN	20	x	50
Type	Bore		Stroke
TN: Double-shaft double acting	10		
	16		
	20		
	25		
	32		

*TN Series attached magnetic ring
*Sensor model JEL-11, please refer to P173 for the specific ordering code.

Symbol



Specification

Bore (mm)	10	16	20	25	32
Working Medium	Air				
Operation	Double Acting				
Operation Pressure Range	0.15~1.0MPa				
Ensure Pressure Resistance	1.5MPa				
Operation Temperature Range	-10~70°C				
Operation Speed Range	30~500 mm/s				
Adjustable Stroke	-10~0 mm				
Cushion	Not Available	Cushion Gasket			
Presion Of Non-Rotating	± 0.4°	± 0.3°			
Port Size	M5x0.8				1/8

The Max. operating pressure is subject to the Max. load of hydraulic buffer.

Stroke

Bore (mm)	Standard Stroke														Max. Stroke	Allowable Stroke
10	10	20	30	40	50	60	70								70	100
16	10	20	30	40	50	60	70	80	90	100	125	150			150	200
20	10	20	30	40	50	60	70	80	90	100	125	150			150	200
25	10	20	30	40	50	60	70	80	90	100	125	150			150	200
32	10	20	30	40	50	60	70	80	90	100	125	150			150	200

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

TN Series

Double Rod Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

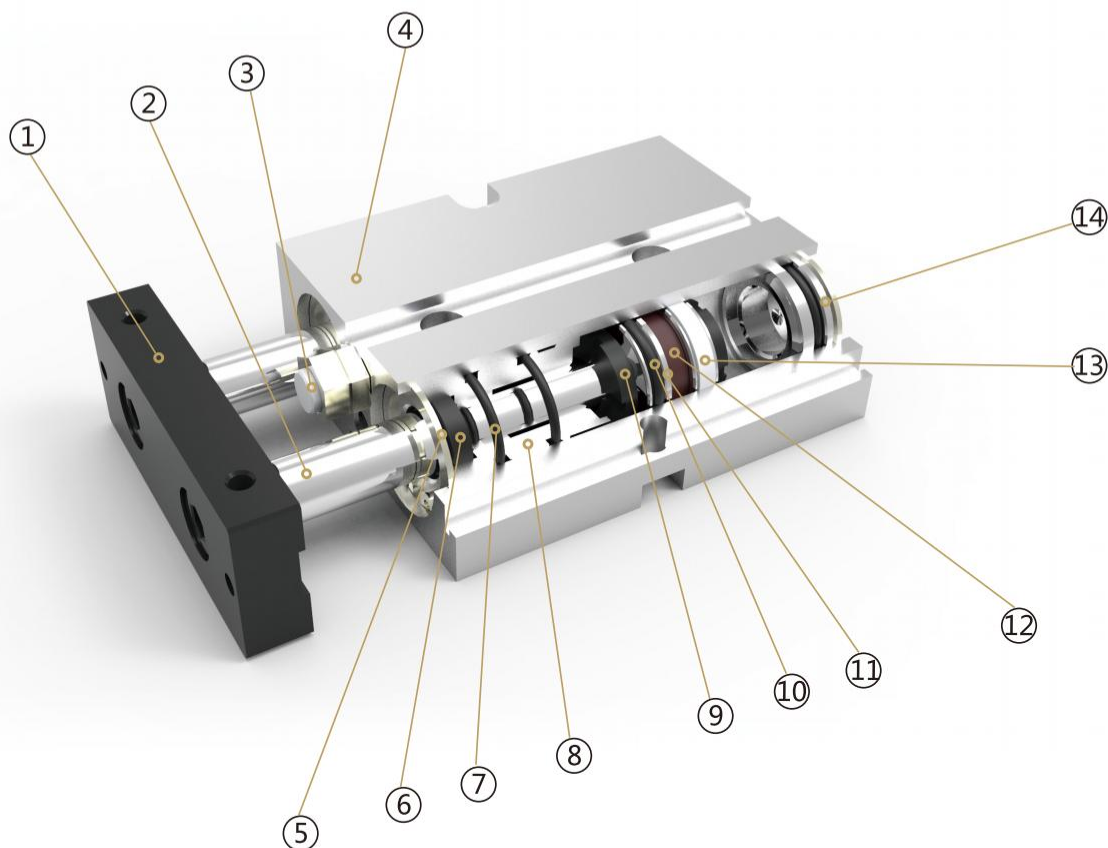
TN

JGP

JSQB

Sensor

Internal Structure



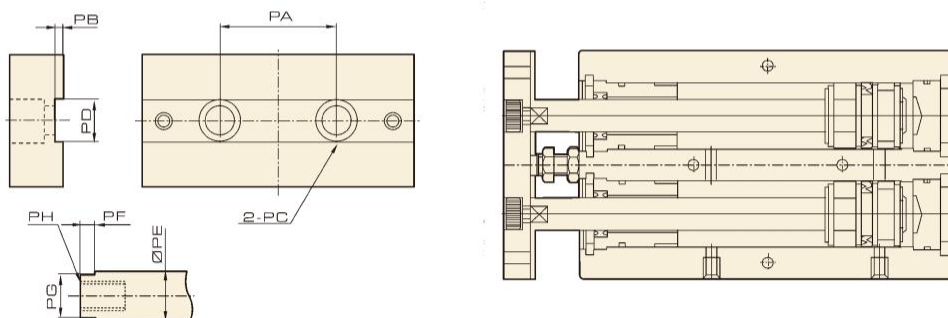
Parts

Number	Name	Number	Name
1	Fixing plate	8	Front cover
2	Piston rod	9	Anti-collision washer
3	Anti-collision head	10	Piston seal
4	Cylinder body	11	Piston
5	Circlips for holes	12	Magnet
6	Shaft seal	13	Anti-friction ring
7	O ring	14	Back cover

Overall Dimension

TN

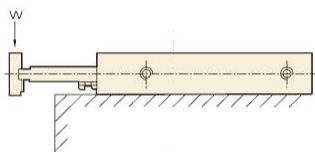
Ø10~Ø25



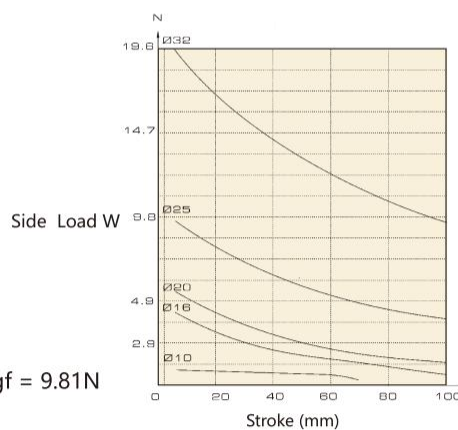
Dimension

Bore / Symbol	PA	PB	PC	PD	PE	PF	PG	PH
10	18	0.5	Φ6.2 deep 3.5 mm, Through Hole: Φ4.5	5.2	6	3	5	M3 × 0.5 deep 5 mm
16	24	1	Φ7.8 deep 4.6 mm, Through Hole: Φ4.5	6.2	8	3	6	M4 × 0.7 deep 46 mm
20	28	1	Φ11 deep 6.8 mm, Through Hole: Φ4.5	8.2	10	3	8	M6 × 1 deep 48 mm
25	34	1	Φ11 deep 6.8 mm, Through Hole: Φ4.5	10.2	12	3	10	M6 × 1 deep 48 mm
32	42	2	Φ17 deep 12 mm, Through Hole: Φ4.5	14.2	16	3	14	M10 × 1.5 deep 14 mm

Allowable size load



*1Kgf = 9.81N



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

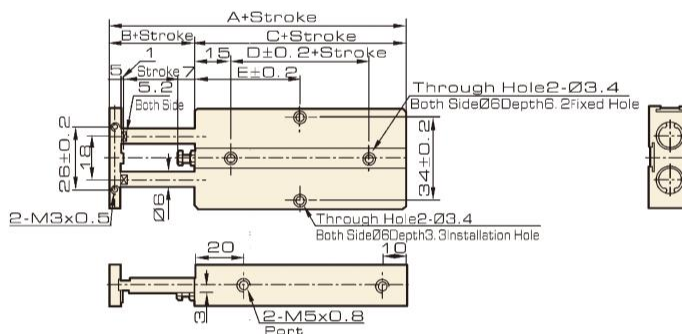
TN

JGP

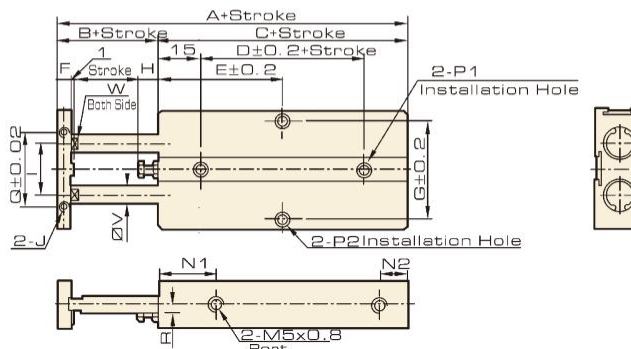
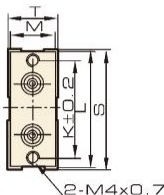
JSQB

Sensor

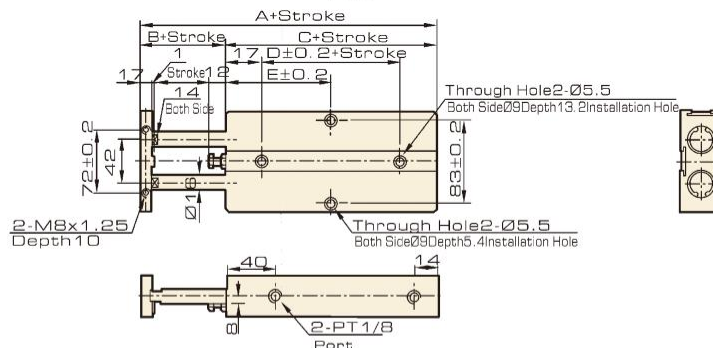
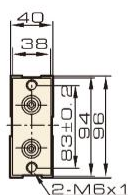
Ø10



● Ø16~Ø25



Ø32



Bore Symbol	A	B	C	D	E												F	G	H	I			
					10	20	30	40	50	60	70	80	90	100	125	150							
16	68	15	53	20	30	35	40	45	50	55	60	65	70	75	87.5	100	8	47	6	24			
20	78	20	58	20	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	9	28			
25	81	19	62	30	40	40	45	50	55	60	65	70	75	80	92.5	105	10	66	8	34			
Bore Symbol	J		K	L	M	N1	N2	P1					P2					Q	R	S	T	V	W
16	M4×0.7 deep 5		47	53	20	22	10	Double side: Ø7.5 Deep: 7.2mm, Through Hole: Ø4.5					Double side: Ø8 Deep: 4.4mm, Through Hole: Ø4.5					34	3	54	21	8	6.2
20	M4×0.7 deep 5		55	61	24	25	12	Double side: Ø7.5 Deep: 7.2mm, Through Hole: Ø4.5					Double side: Ø8 Deep: 4.4mm, Through Hole: Ø4.5					44	3.5	62	25	10	8.1
25	M4×0.8 deep 6		66	72	27	30	12	Double side: Ø7.5 Deep: 7.2mm, Through Hole: Ø4.5					Double side: Ø8 Deep: 4.4mm, Through Hole: Ø4.5					56	7	73	30	12	10.2
Bore Symbol	A	B	C	D	E																		
					10		20		30		40		50		60		70						
10	63	12	51	10	30		30		35		40		45		50		50		55				
32	108	30	78	35	10	20	30	40	50	60	70	80	90	100	125	150	10	125	150				
					45	50	55	60	65	70	75	80	85	90	102.5	115							

[illegible]

1. Small axial size and more compact structure
2. Strong lateral load resistance
3. Strong load capacity and torque force.
4. Two ways to connect the pipes, convenient installation and use

Bore Size (mm)	Piston Rod Size (mm)	Operating Direction		Piston Area (mm²)	Air Pressure (Mpa)					
					0.1	0.2	0.3	0.4	0.5	0.6
12	6	Double acting	OUT	113.0	11.3	22.6	33.9	45.2	56.5	67.8
			IN	84.8	8.5	17.0	25.4	33.9	42.4	50.9
16	8	Double acting	OUT	201.0	20.1	40.2	60.3	80.4	100.5	120.6
			IN	150.7	15.1	30.1	45.2	60.3	75.4	90.4
20	10	Double acting	OUT	314.0	31.4	62.8	94.2	125.6	157.0	188.4
			IN	235.5	23.6	47.1	70.7	94.2	117.8	141.3
25	12	Double acting	OUT	490.6	49.1	98.1	147.2	196.3	245.3	294.4
			IN	377.6	37.8	75.5	113.3	151.0	188.8	226.6
32	16	Double acting	OUT	803.8	80.4	160.8	241.2	321.5	401.9	482.3
			IN	602.9	60.3	120.6	180.9	241.2	301.4	361.7
40	16	Double acting	OUT	1256.0	125.6	251.2	376.8	502.4	628.0	753.6
			IN	1055.0	105.5	211.0	613.5	422.0	527.5	633.0
50	20	Double acting	OUT	1962.5	196.3	392.5	588.8	785.0	981.3	1177.5
			IN	1648.5	164.9	329.7	494.6	659.4	824.3	989.1
63	20	Double acting	OUT	3115.7	311.6	623.1	934.7	1246.3	1557.8	1869.4
			IN	2801.7	280.2	560.3	840.5	1120.7	1400.8	1681.0
80	25	Double acting	OUT	5024.0	502.4	1004.8	1507.2	2009.6	2512.0	3014.4
			IN	4533.4	453.3	906.7	1360.0	1360.0	2266.7	2720.0

JGP	M	25	X	30
①	②	③		④

①	② Bearing Type	③ Bore Size			⑤ Stroke
Compact Guide Cylinder	M Slide bearing	12	12mm	40	40mm
		16	16mm	50	50mm
		20	20mm	63	63mm
	L Linear bearing	25	25mm	80	80mm
		32	32mm		
					Refer to "Standard Stroke"

Bore Size (mm)	Standard Stroke	Sensor
12,16	10,20,30,40,50,75,100,125,150,175,200,250	JEL-07R JEL-07D
20,25	20,30,40,50,75,100,125,150,175,200,250,300,350,400	
32~80	25,50,75,100,125,150,175,200,250,300,350,400	

Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

JGP Series

Compact Guide Cylinder



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

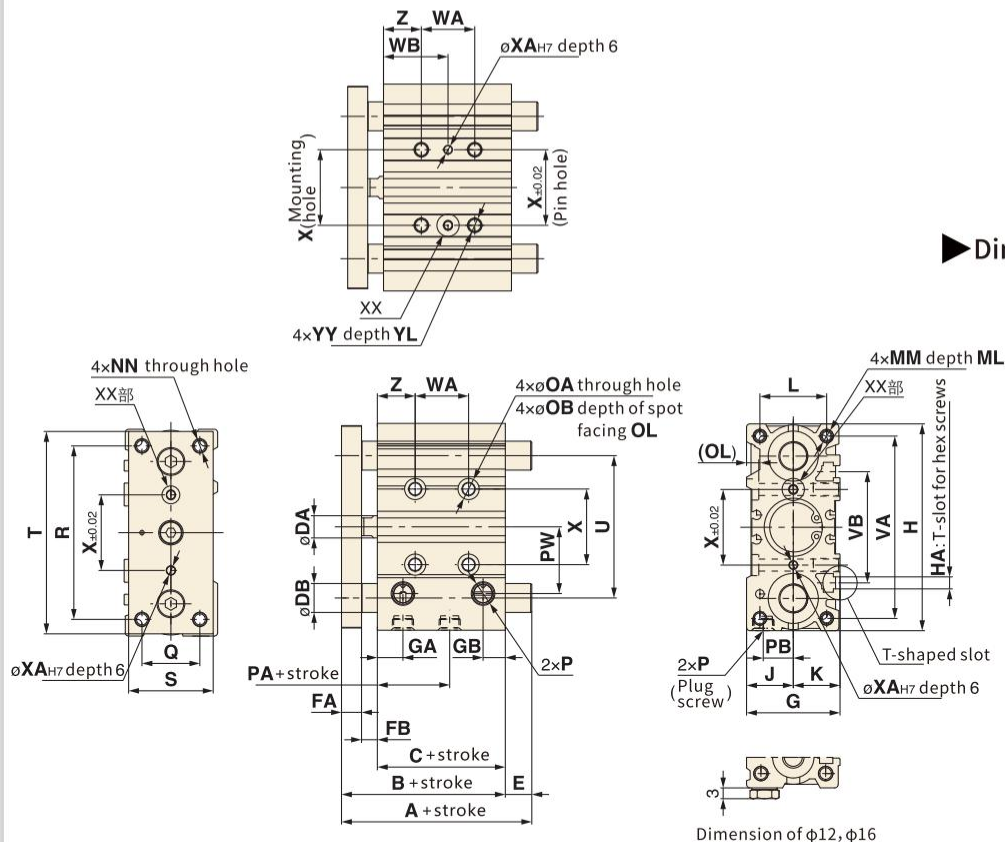
JGP

JSQB

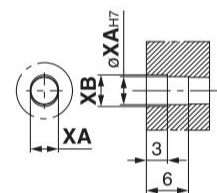
Sensor

Overall Dimension

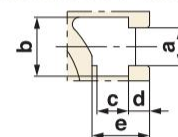
JGPM/JGPL Ø12~Ø25



Dimension Of XX



Dimension Of T-Shaped Slot



Bore Size	a	b	c	d	e
12	4.4	7.4	3.7	2	6.2
16	4.4	7.4	3.7	2.5	6.7
20	5.4	8.4	4.5	2.8	7.8
25	5.4	8.4	4.5	3	8.2

JGPM, JGPL Common Dimensions

Bore Size (mm)	Standard Stroke (mm)	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA
12	10,20,30,40,50,75,100	42	29	6	7	6	26	10	7	58	M4	13	13	18	M4×0.7	10	M4×0.7	4.3	8	4.5	M5×0.8	13
16	125,150,175,200,250	46	33	8	7	6	30	10.5	7.5	64	M4	15	13	22	M5×0.8	12	M5×0.8	4.3	8	4.5	M5×0.8	14.5
20	20,30,40,50,75,100,125,150	53	37	10	8	8	36	11.5	9	83	M5	18	18	24	M5×0.8	13	M5×0.8	5.4	9.5	5.5	Rc1/8	13.5
25	175,200,250,300,350,400	53.5	37.5	12	9	7	42	11.5	10	93	M5	21	21	30	M6×1.0	15	M6×1.0	5.4	9.5	5.5	Rc1/8	12.5

Bore Size (mm)	PB	PW	Q	R	S	T	U	VA	VB	WA					WB					X	XA	XB	YY	YL	Z
										Below 30st	Over 30st Below 100st	Over 100st Below 200st	Over 200st Below 300st	Over 300st	Below 30st	Over 30st Below 100st	Over 100st Below 200st	Over 200st Below 300st	Over 300st						
12	8	18	14	48	22	56	41	50	37	20	40	110	200	-	15	25	60	105	-	23	3	3.5	M5×0.8	10	5
16	10	19	16	54	25	62	46	56	38	24	44	110	200	-	17	27	60	105	-	24	3	3.5	M5×0.8	10	5
20	10.5	25	18	70	30	81	54	72	44	24	44	120	200	300	29	39	77	117	167	28	3	3.5	M6×1.0	12	17
25	13.5	30	26	78	38	91	64	82	50	24	44	120	200	300	29	39	77	117	167	34	4	4.5	M6×1.0	12	17

JGPM (Slide Bearing) /A, DB, E Dimensions

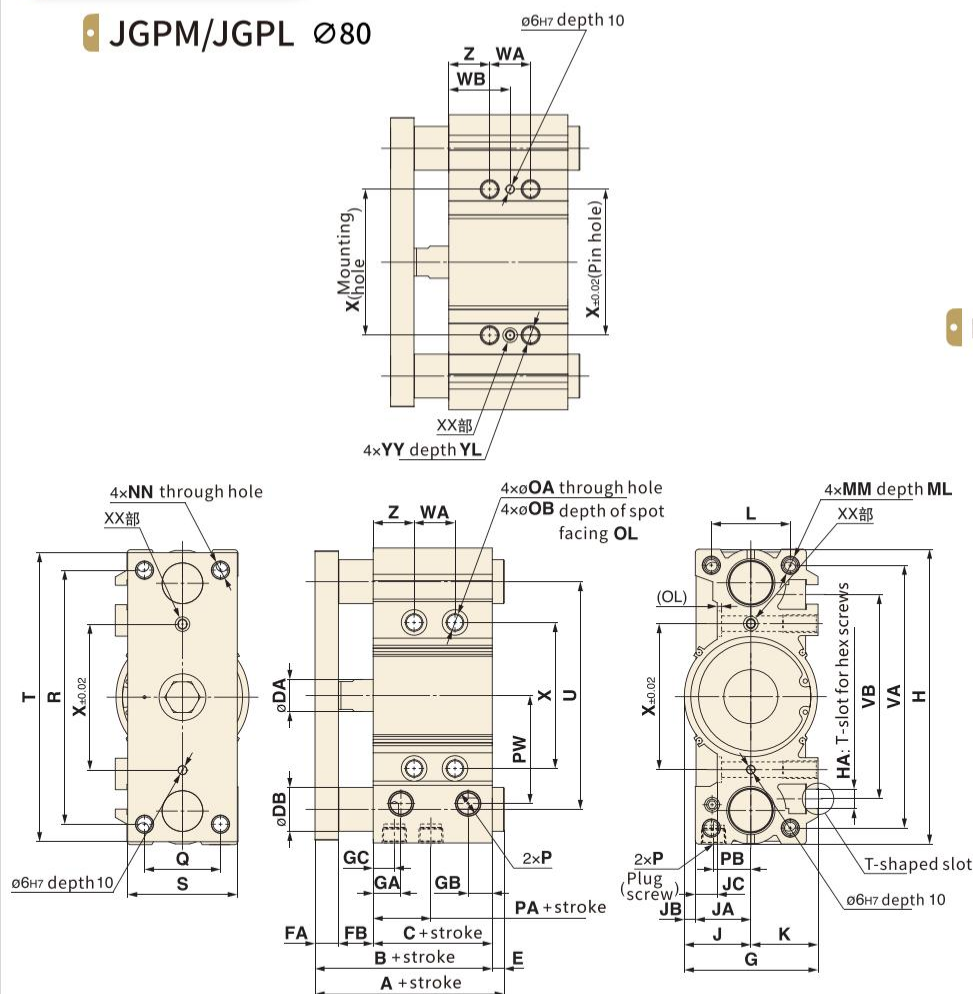
Bore Size (mm)	A				DB	E			
	Below 50st	Over 50st Below 100st	Over 100st Below 200st	Over 200st		Below 50st	Over 50st Below 100st	Over 100st Below 200st	Over 200st
12	42	60.5	82.5	82.5	8	0	18.5	40.5	40.5
16	46	64.5	92.5	92.5	10	0	18.5	46.5	46.5
20	53	77.5	110	110	12	0	24.5	57	57
25	53.5	77.5	109.5	109.5	16	0	24	56	56

JGPL (Ball Bearing) /A, DB, E Dimensions

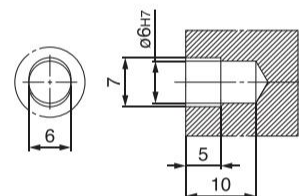
Bore Size (mm)	A				DB	E			
	Below 50st	Over 50st Below 100st	Over 100st Below 200st	Over 200st		Below 50st	Over 50st Below 100st	Over 100st Below 200st	Over 200st
12	43	55	84.5	84.5	6	1	13	42.5	42.5
16	49	65	94.5	94.5	8	3	19	48.5	48.5
20	59	76	100	117.5	10	6	23	47	64.5
25	65.5	81.5	100.5	117.5	13	12	28	47	64

Overall Dimension

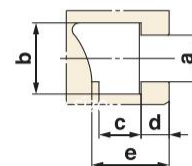
JGPM/JGPL Ø80



• Dimension Of XX



Dimension Of T-Shaped Slot



Bore Size	a	b	c	d	e
80	13.3	20.3	12	8	22.

JGPM, JGPL Common Dimensions

Bore Size (mm)	Standard Stroke (mm)	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	JA	JB	JC	K	L	MM	ML	NN	OA	OB
80	25 50 75 100 125 150 175 200 250 300 350 400	96.5	56.5	25	16	24	91.5	19	16.5	14.5	202	M12	45.5	38	7.5	15	46	54	M12×1.75	25	M12×1.75	10.6	17.5

Bore Size	PB	PW	Q	R	S	T	U	VA	VB	OL	P	PA	WA					WB					X	YL	Z
													Below 30st	Over 30st Below 100st	Over 100st Below 200st	Over 200st Below 300st	Over 300st	Below 30st	Over 30st Below 100st	Over 100st Below 200st	Over 200st Below 300st	Over 300st			
80	25.5	74	52	174	75	198	156	180	140	3	Rc3/8	14.5	28	52	128	200	300	42	54	92	128	178	100	24	28

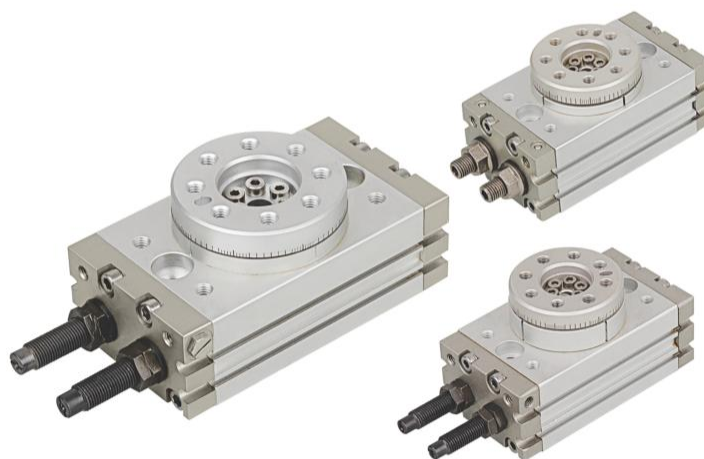
Bore Size (mm)	YY
80	M12×1.75

JGPM (Slide Bearing) /A, DB, E Dimensions

Bore Size (mm)	A			DB	E		
	Below 50st	Over 50st Below 200st	Over 200st		Below 50st	Over 50st Below 200st	Over 200st
80	104.5	131.5	180.5	30	8	35	84

Features

1. Rotary table type, easy to install the workpiece
2. Hollow shafts can be used to introduce wires or air pipes
3. Standard Angle adjustment device, adjustment Angle range is large (0~190°)
4. Built-in magnetic ring, sensor can be installed



Ordering Code

JSQB	10	A
Series	Specification	Bore Size
	10 70	A: With adjusting screw
	20 100	R: With hydraulic buffer
	30	
	50	

Stroke/Sensor Model

Code	Sensor Model
10	JEL-07D
20	
30	
50	
70	
100	

[Note] Sensor please refer to P173 for the specific ordering code.

Specification

Bore Size		10	20	30	50	70	100
Working Medium		Air (non-lubrication)					
Operation		Double Acting					
Operation Pressure Range		0.15~0.7MPa					
Ambient And Fluid Temperature		-10~60℃ (with no condensation)					
Cushion		Rubber Buffer (Standard) / Hydraulic buffer (optional)					
Enabling Function	With Adjusting Screw	0.007J	0.025J	0.048J	0.081J	0.24J	0.32J
	With Hydraulic Buffer	0.039J	0.116J		0.294J	1.1J	1.6J
Angle Adjustment Range		0~190°					
Max. Swing Angle		190°					
Stable Shaking Time Range	With Adjusting Screw	0.2~1.0s/90°				0.2~1.5s/90°	0.2~2.0s/90°
	With Hydraulic Buffer	0.2~0.7s/90°				0.2~1.0s/90°	
Port Size		M5x0.8			1/8		

[Note]: The maximum allowable thrust of the buffer determines the maximum operating pressure of the actuator

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

JSQB
10.20.30.50



Model	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	液压缓冲器型号
JSQB10□	46	45	20	M8x1.25	12	M8x1	50	45	20	12	4	27.8	15.5	34.5	9	13	M5x0.8	31.5	8.6	M8x1	RBA0805-X692
JSQB20□	61	60	28	M10x1.5	15	M10x1	65	60	27.5	14	5	28.8	16	51	10	12	M5x0.8	34.7	10.6	M10x1	RBA1006-X692
JSQB30□	67	65	32	M10x1.5	15	M10x1	70	65	29	14	5	32	18.5	50	11.5	14	1/8	34.7	10.6	M10x1	RBA1006-X692
JSQB50□	77	75	35	M12x1.75	18	M14x1.5	80	75	38	19	6	37.5	22	63	14.5	15	1/8	51.7	14	M14x1.5	RBA1411-X692

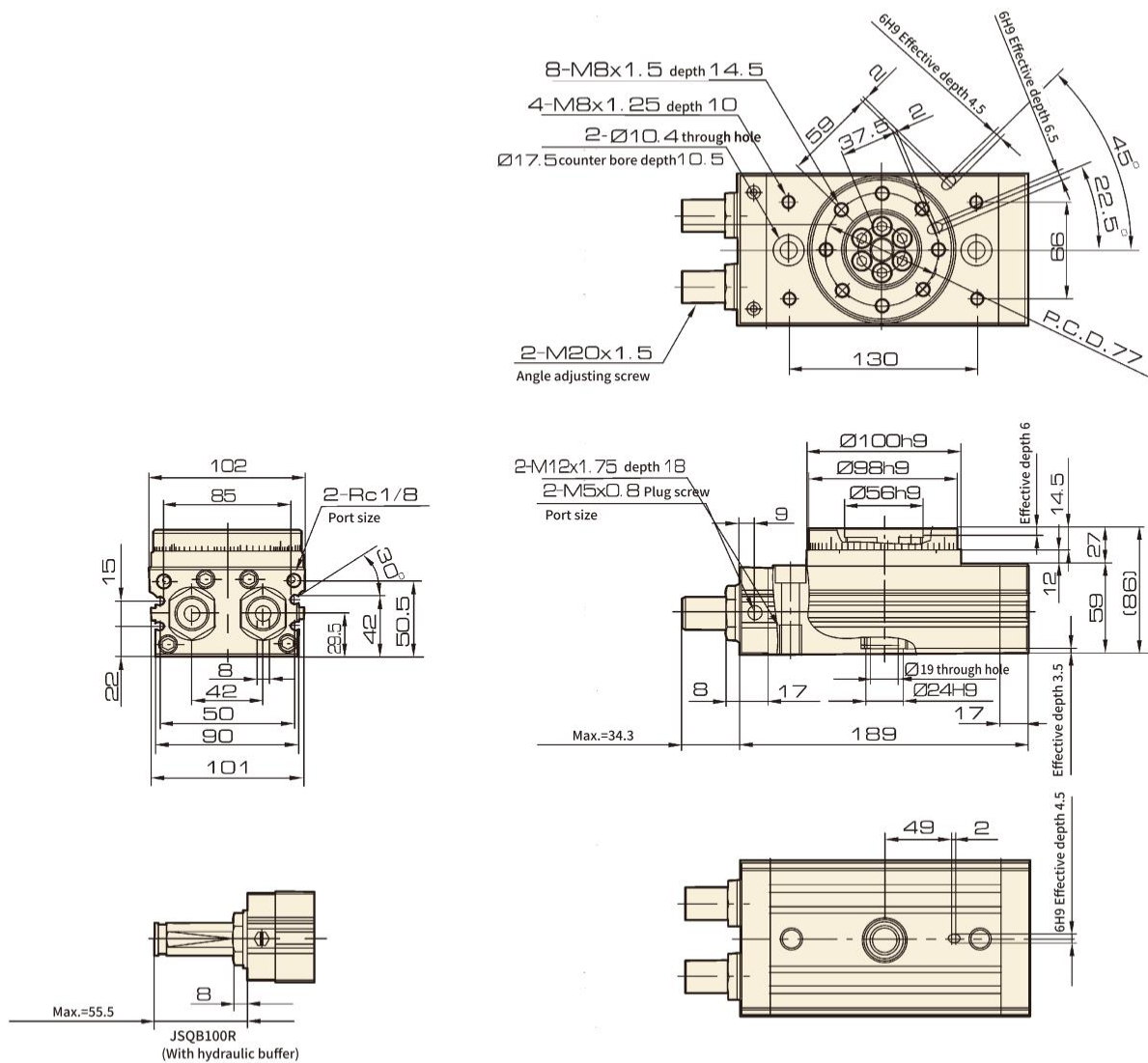
[Note]: The maximum size is when the swing Angle is the largest(190°)

JSQB70



Overall Dimension

JSQB100



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor



JEL-01



JEL-07



JEL-11



JEL-21



JEL-30

Ordering Code

JEL	-	07	D	200	-	□
Series		Specification	Output	Wiring Method		Special Code
JEL sensor		01	R (Magnetic reed two-wire)	015(0.15m)		Blank (Normal)
		07	D (Electronic two-wire)	100(1m)		L (Right angle)
		11	N (NPN electronic three-wire)	200(2m)		T (Drag chain)
		21	P (PNP electronic three-wire)	300(3m)		W (Waterproof)
		30		QD015(M8 two-wire)		V (High temp)
				QD015(M8 three-wire)		B (Normal close)
				EQD015(M8 European three-wire)		F (Anticorrosive)

Specification

Series	R	D	N	P
Wiring Diagram				
Characteristic				
Wiring Mode	Two-wire		Three-wire	
Switching Logic	SPST Normally open	Solid state output. Normally open		
Switch Type	Reed switch	Solid state	Current sinking	Current Sourcing
Operating Voltage	5-240V DC/AC	10-28V DC	5-30V DC	
Max. Switching Current	100mA max	4-40mA max	200mA max	
Switching Range	10W max	1.5W max	6W max	
Current Consumption	--		8mA @24V DC max	
Internal Voltage Drop	3.0V max		1.5V max	
Leakage Current	--	1mA max	0.01mA max	
Indicator	Red LED		Red LED	Green LED
Cable	φ 3.2 2C PVC		φ 3.2 3C PVC	
Temperature Range	-10~70°C			
Enclosure Classification	IEC 529 IP 67			

Code Specification

Sensor Model		JEL-01	JEL-07	JEL-11	JEL-21	JEL-30	Accessories
Cylinder Groove Diagram					Need Install Accessories		
Cylinder Model							
SI	All series					●	
SQ/DNT	All series					●	
SQ	125				●		PMA12
	160				●		PMA16
	200				●		PMA16
	250				●		PI5
	320				●		PI7
SC	32				●		PMA6
	40				●		PMA6
	50				●		PMA6
	63				●		PMA8
	80				●		PMA10
	100				●		PMA10
	125				●		PMA12
SU	32				●		PI2
	40				●		PI2
	50				●		PI2
	63				●		PI3
	80				●		PI4
	100				●		PI4
DN/DSN	125				●		PI5
	8	●					SKB-8
	10	●					SKB-10
	12	●					SKB-12
	16	●					SKB-16
	20	●					SKB-20
	25	●					SKB-25
	32	●					SKB-32
MA/MAC	40	●					SKB-40
	12	●					SKB-12
	16	●					SKB-16
	20	●					SKB-20
	25	●					SKB-25
	32	●					SKB-32
MAL/MALC	40	●					SKB-40
	16	●					SKL-16
	20	●					SKL-20
	25	●					SKL-25
SDA	32	●		●			SKL-32
	40	●		●			SKL-40
	50	●		●			
	63	●		●			
	80	●		●			
	100	●		●			
	12	●		●			
	16	●		●			
CQ2/TCQ2	All series		●				
ADN/TADN	All series					●	
TN	All series			●			
JGP	All series		●				
JXH	All series		●				
JXQ	All series		●				
JXS	All series		●				
JHF2	All series		●				
JHL2	All series		●				
JHY2	All series		●				
JHZ2	All series		●				
JHC2	All series		●				

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

1

Control Component

2

Execution Component

3

 **JELPC[®]**

4

Pneumatic Accessory

AIR SOURCE UNIT



CONTENTS OF AIR SOURCE UNIT



3-01 AC, BC Series Three-devices Combination (F.R.L. Combination)



3-03 AFC, BFC Series Two-devices Combination (FR.L. Combination)



3-05 AF, BF Series Filter



3-06 AR, BR Series Regulator



3-07 AFR, BFR Series Filter & Regulator



3-08 AL, BL Series Lubricator



3-09 JAC Series 1000~5000 Air Filter Combination (F.R.L. Combination)



3-10 JAC Series 1010~5010 Air Filter Combination (FR.L. Combination)



3-12 JAF Series 1000~5000 Air Filter



3-13 JAR Series 1000~5000 Regulator



3-15 JAW Series 1000~5000 Filter & Regulator



3-16 JAL Series 1000~5000 Lubricator



3-18 FE Series Air Filter Combination (2 Combination)



3-22 GC Series Air Source Unit (3 or 2 Combination)



3-24 ZYR10 Series Oxygen Supply Regulator



3-25 JAD Series Auto-drain



3-26 MPX Series Digital Pressure Sensor



3-30 EPX Series Digital Pressure Sensor

AC, BC Series

Three-devices Combination
(F.R.L. Combination)



FRL

AC,BC

AF,BC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX



AC(1500-2000)

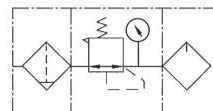


BC(2000-4000)

Ordering Code

BC	3000	D
Model	Port Size	Drain Type
AC: Small	1500: G1/8"	Blank: Semi-automatic
	2000: G1/4"	D: Automatic
	3000: G3/8"	* Not applied to AC
BC: Medium	4000: G1/2"	

Symbol

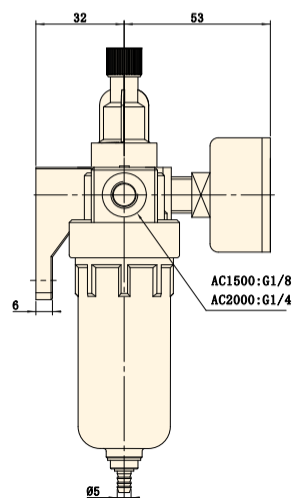
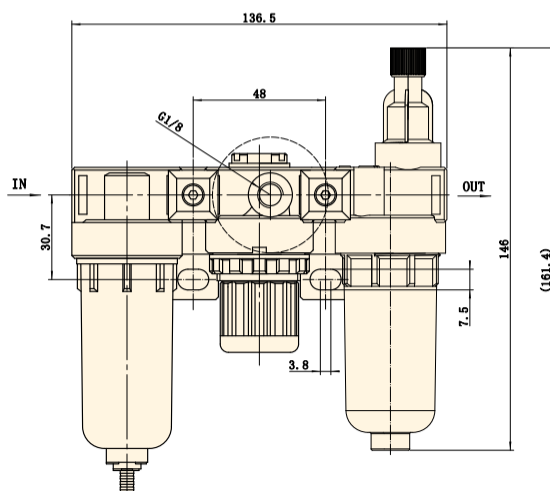


Specification

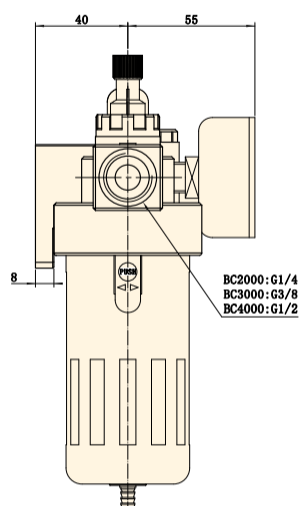
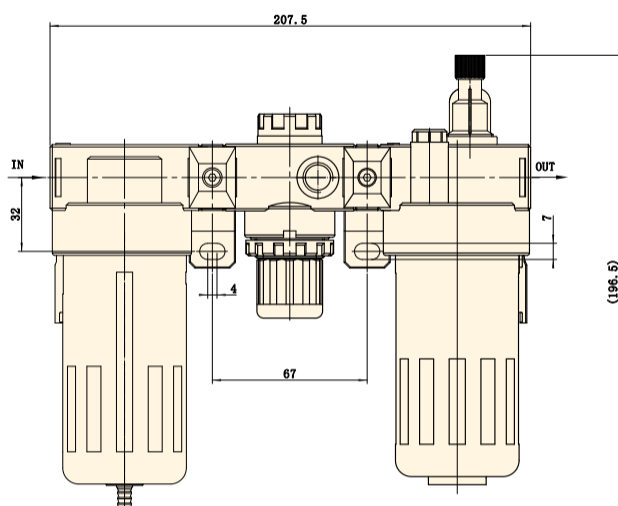
Model		AC1500	AC2000	BC2000	BC3000	BC4000
Operating Fluid		Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filter Precision		40 μ				
Range of Adjustable Pressure		0.05 ~ 0.85 MPa				
Max. Adjustable Pressure		0.95 MPa				
Proof Pressure Resistance		1.5 MPa				
Operating Temperature Range		5 ~ 60℃				
Capacity of Filter Cup		15 cc		60 cc		
Capacity of oil Cup		25 cc		90 cc		
Recommended Lubricant		ISO VG 32 or Same Grade Oil				
Weight		0.7 KG		0.9 KG		
Material	Body	Aluminum Alloy Die-casting Forming				
	Container Cup	PC				
	Protective Cover	-		Iron		
Components	Filter Regulator	AF1500	AF2000	BF2000	BF3000	BF4000
	Regulator	AR1500	AR2000	BR2000	BR3000	BR4000
	Lubricator	AL1500	AL2000	BL2000	BL3000	BL4000

Overall Dimension

AC



BC



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

AFC, BFC Series

Two-devices Combination
(FR.L. Combination)



FRL
AC,BC
AFC,BFC
AF,BF
AR,BR
AFR,BFR
AL,BL
JAC
JAF
JAR
JAW
JAL
FE
GC
ZYR10
JAD
MPX
EPX



AFC(1500-2000)

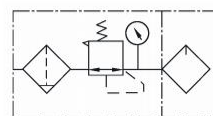


BFC(2000-4000)

Ordering Code

BFC	3000	D
Model	Port size	Drain Type
AFC: Small	1500: G1/8"	Blank: Semi-automatic
	2000: G1/4"	D: Automatic
	3000: G3/8"	* Not applied to AFC
BFC: Medium	4000: G1/2"	

Symbol

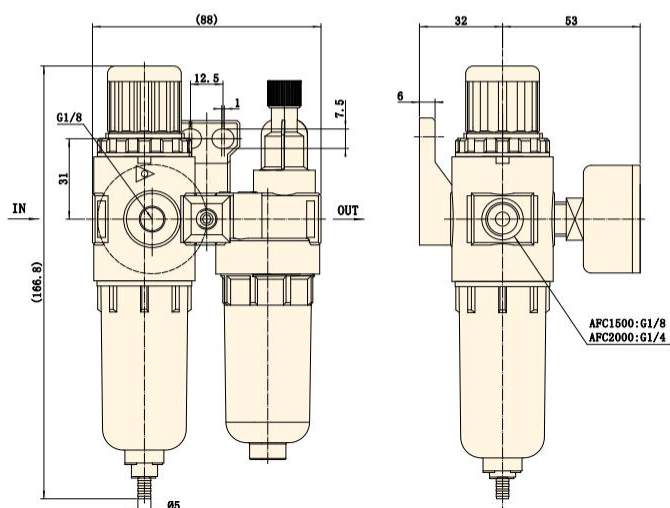


Specification

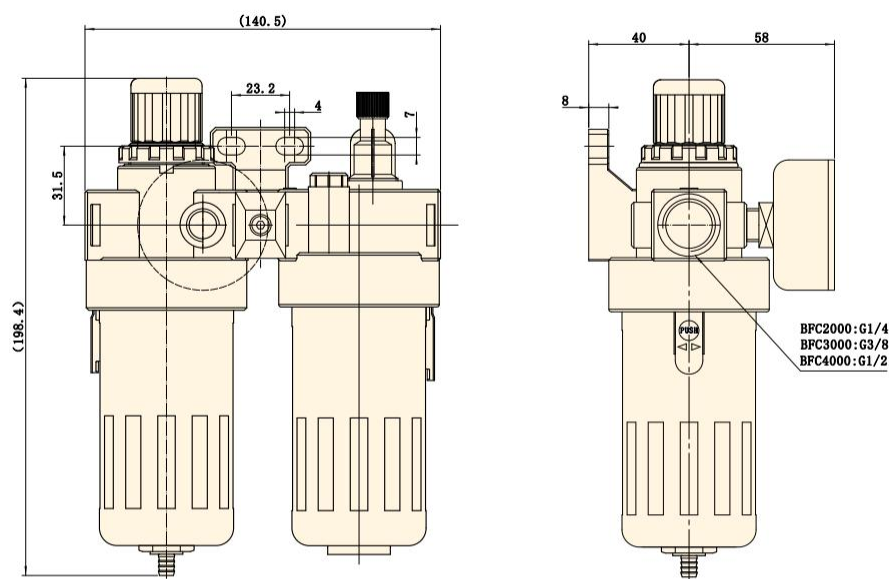
Model		AFC1500	AFC2000	BFC2000	BFC3000	BFC4000
Operating Fluid		Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filter Precision		40 μ				
Range of Adjustable Pressure		0.05 ~ 0.85 MPa				
Max. Adjustable Pressure		0.95 MPa				
Proof Pressure Resistance		1.5 MPa				
Operating Temperature Range		5 ~ 60°C				
Capacity Of Filter Cup		15 cc			60 cc	
Capacity Of Oil Cup		25 cc			90 cc	
Recommended Lubricant		ISO VG 32 or Same Grade Oil				
Weight		0.5 KG			0.7 KG	
Material	Body	Aluminum Alloy Die-casting Forming				
	Container Cup	PC				
	Protective Cover	Iron				
Components	Filter Regulator	AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
	Lubricator	AL1500	AL2000	BL2000	BL3000	BL4000

Overall Dimension

AFC



BFC



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

AF, BF Series Filter



FRL
AC,BC
AFC,BFC
AF,BF
AR,BR
AFR,BFR
AL,BL
JAC
JAF
JAR
JAW
JAL
FE
GC
ZYR10
JAD
MPX
EPX



AF(1500-2000)

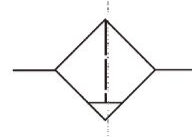


BF(2000-4000)

Ordering Code

BF	3000	D
Model	Port Size	Drain Type
AF: Small	1500: G1/8"	Blank: Semi-automatic
	2000: G1/4"	D: Automatic
	3000: G3/8"	* Not applied to AF
BF: Medium	4000: G1/2"	

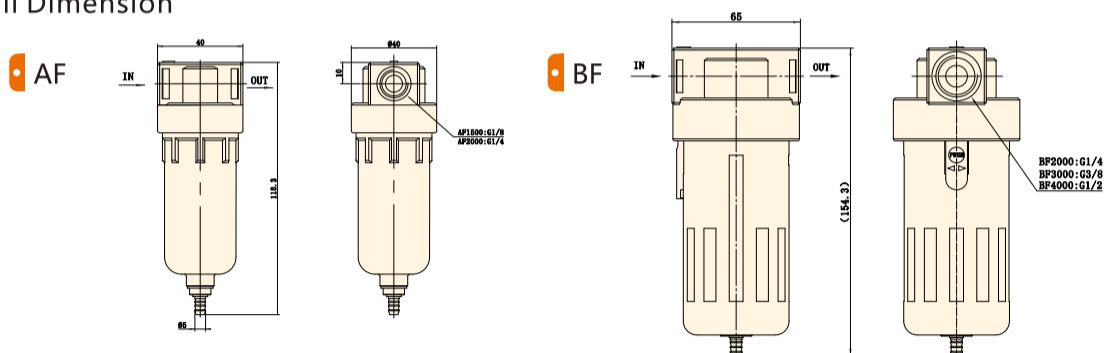
Symbol



Specification

Model		AF1500	AF2000	BF2000	BF3000	BF4000
Operating Fluid		Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Filter Precision		40 μ				
Proof Pressure Resistance		1.5 MPa				
Operating Temperature Range		5 ~ 60°C				
Capacity of Filter Cup		15 cc		60 cc		
Weight		0.14 KG		0.33 KG		
Material	Body	Aluminum Alloy Die-casting Forming				
	Container Cup	PC				
	Protective Cover	-		Iron		

Overall Dimension





AR(1500-2000)

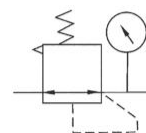


BR(2000-4000)

Ordering Code

BR	3000
Model	Port Size
AR: Small	1500: G1/8"
	2000: G1/4"
	3000: G3/8"
BR: Medium	4000: G1/2"

Symbol

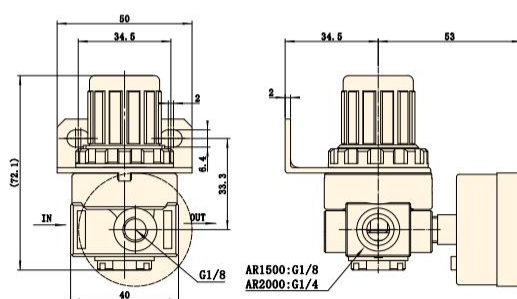


Specification

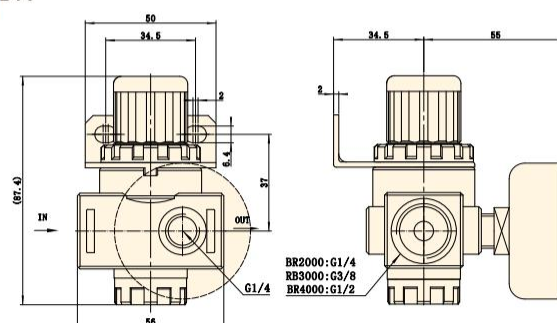
Model	AR1500	AR2000	BR2000	BR3000	BR4000
Operating Fluid	Air				
Port Size	G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Range of Adjustable Pressure	0.05 ~ 0.85MPa				
Max. Adjustable Pressure	0.95 MPa				
Proof Pressure Resistance	1.5 MPa				
Operating Temperature Range	5 ~ 60°C				
Weight	0.20 KG		0.23 KG		
Body Material	Aluminum alloy, Die-casting Forming				

Overall Dimension

AR



BR



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

AFR、BFR Series Filter & Regulator



FRL
AC,BC
AFC,BFC
AF,BF
AR,BR
AFR,BFR
AL,BL
JAC
JAF
JAR
JAW
JAL
FE
GC
ZYR10
JAD
MPX
EPX



AFR(1500-2000)

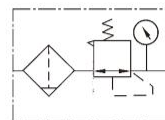


BFR(2000-4000)

Ordering Code

BFR	2000	D
Model	Port Size	Drain Type
AFR: Small	1500: G1/8"	Blank: Semi-automatic
	2000: G1/4"	D: Automatic
	3000: G3/8"	* Not applied to AFR
BFR: Medium	4000: G1/2"	

Symbol

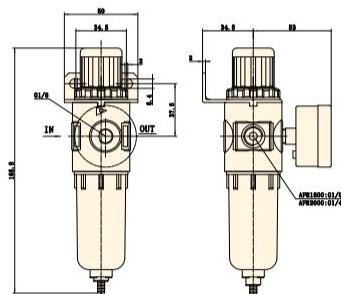


Specification

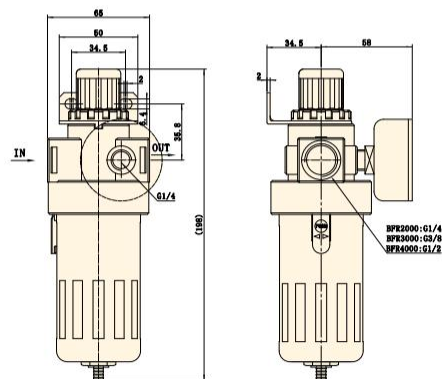
Model		AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
Operating Fluid		Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Range of Adjustable Pressure		0.05 ~ 0.85MPa				
Max. Adjustable Pressure		0.95 MPa				
Proof Pressure Resistance		1.5 MPa				
Operating Temperature Range		5 ~ 60°C				
Capacity of Filter Cup		15 cc			60 cc	
Weight		0.26 KG			0.4 KG	
Material	Body	Aluminum Alloy , Die-casting Forming				
	Container Cup	PC				
	Protective Cover	-			Iron	

Overall Dimension

AFR



BFR



AL,BL Series

Lubricator

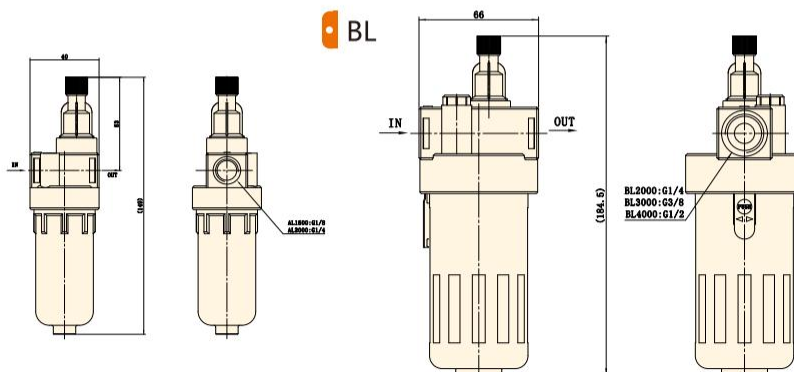


BL(2000-4000)

 Symbol

A diagram of a diamond-shaped network element. It consists of a central diamond shape with two horizontal lines extending from its left and right vertices, representing input and output ports. A vertical line passes through the center of the diamond, with a small tick mark at the top vertex.

Model		AL1500	AL2000	BL2000	BL3000	BL4000
Operating Fluid		Air				
Port Size		G1/8"	G1/4"	G1/4"	G3/8"	G1/2"
Range of Adjustable Pressure		1.5MPa				
Proof Pressure Resistance		5 ~ 60°C				
Operating Temperature Range		ISO VG 32 or Same Grade Oil				
Capacity of Filter Cup		25 cc			90 cc	
Weight		0.17 KG			0.25 KG	
Material	Body	Aluminum Alloy , Die-casting Forming				
	Container Cup	PC				
	Protective Cover	-			Iron	



EPX

JAC Series 1000~5000

Air Filter Combination
(F.R.L. Combination)



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX



JAC2000

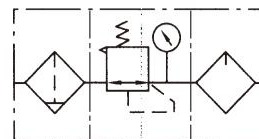


JAC4000

Ordering Code

JA	C	4000	04	D	N
Series	Function	Specification	Port Size	Drain Type	Wiring Form
JAC2000-02	F.R.L. Combination	1000	M5: M5 x 0.8	Blank: Differential Drain	Blank: Standard
		2000	01: G1/8"	D: Lever Auto Drain	N: Metal cup
		2500	02: G1/4"		
JAC3000-03		3000	03: G3/8"		
		4000	04: G1/2"		
		5000	06: G3/4"		
			10: G1"		

Symbol



Specification

Model		JAC1000-M5	JAC2000-01	JAC2000-02	JAC2500-02	JAC2500-03	JAC3000-02	JAC3000-03	JAC4000-03	JAC4000-04	JAC4000-06	JAC5000-06	JAC5000-10
Rated Flow		90	500	500	1500	1500	2000	2000	4000	4000	4500	5000	5000
Port Size		M5	1/8	1/4	1/4	3/8	1/4	3/8	3/8	1/2	3/4	3/4	1
Filter Precision		25 μm											
Max. Adjustable Pressure		1.0 MPa											
Proof Pressure Resistance		1.5 MPa											
Operating Temperature Range		5 ~ 60℃											
Range of Adjustable Pressure		0.05 ~ 0.7MPa	0.05 ~ 0.85 MPa										
Recommended Lubricant		ISO VG 32											
Container Material													
Protective Cup Cover		Unavailable				Iron							
Drain Function		Differential Drain	Differential Drain, Automatic Drain										
Valve Type		With Overflow											
Assembly	Filter	JAF1000-M5	JAF2000-01	JAF2000-02	JAF3000-02	JAF3000-02	JAF3000-02	JAF3000-03	JAF4000-03	JAF4000-04	JAF4000-06	JAF5000-06	JAF5000-10
	Regulator	JAR1000-M5	JAR2000-01	JAR2000-02	JAR2500-02	JAR2500-02	JAR3000-02	JAR3000-03	JAR4000-03	JAR4000-04	JAR4000-06	JAR5000-06	JAR5000-10
	Lubricator	JAL1000-M5	JAL2000-01	JAL2000-02	JAL3000-02	JAL3000-02	JAL3000-02	JAL3000-03	JAL4000-03	JAL4000-04	JAL4000-06	JAL5000-06	JAL5000-10



JAC3010-N



JAC2010

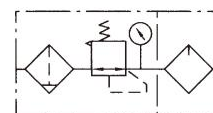


JAC4010

Ordering Code

JA	C	4010	04	D	N
Series	Function	Specification	Port Size	Drain Type	Wiring Form
JAC2010-02	F.R.L. Combination	1010	M5: M5 x 0.8	Blank: Differential Drain D: Lever Auto Drain	Blank: Standard N: Metal cup
		2010	01: G1/8"		
		3010	02: G1/4"		
JAC3010-03		4010	03: G3/8"		
		5010	04: G1/2"		
JAC3010-03N			06: G3/4"		
			10: G1"		

Symbol



Specification

Model		JAC1010-M5	JAC2010-01	JAC2010-02	JAC3010-02	JAC3010-03	JAC4010-03	JAC4010-04	JAC4010-06	JAC5010-06	JAC5010-10
Rated Flow		90	500	500	1700	1700	3000	3000	3000	4000	4000
Port Size		M5	1/8	1/4	1/4	3/8	3/8	1/2	3/4	3/4	1
Filter Precision		25 μm									
Max. Adjustable Pressure		1.0 MPa									
Proof Pressure Resistance		1.5 MPa									
Operating Temperature Range		5 ~ 60°C									
Range of Adjustable Pressure		0.05 ~ 0.7MPa	0.05 ~ 0.85 MPa								
Recommended Lubricant		ISO VG 32									
Container Material		Poly Carbonate									
Protective Cup Cover		Unavailable				Iron					
Drain Function		Differential Drain	Differential Drain, Automatic Drain								
Valve Type		With Overflow									
Assembly	Filter Regulator	JAW1000-M5	JAW2000-01	JAW2000-02	JAW3000-02	JAW3000-03	JAW4000-03	JAW4000-04	JAW4000-06	JAW5000-06	JAW5000-10
	Lubricator	JAL1000-M5	JAL2000-01	JAL2000-02	JAL3000-02	JAL3000-03	JAL4000-03	JAL4000-04	JAL4000-06	JAL5000-06	JAL5000-10

FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

JAC Series

Air Filter Combination (F.R.L. Combination / FR.L. Combination)

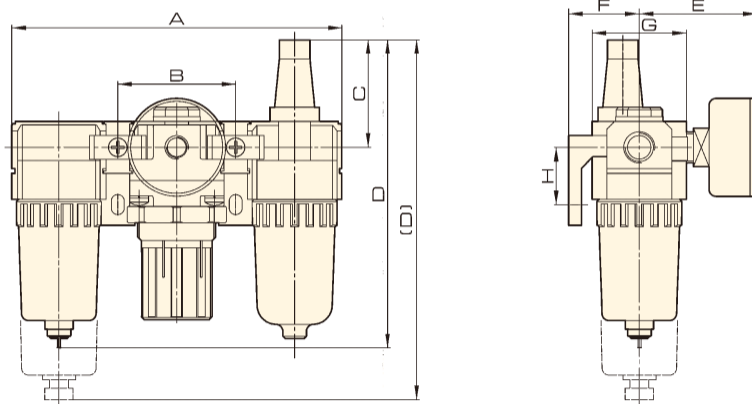


FRL
AC,BC
AFC,BFC
AF,BF
AR,BR
AFR,BFR
AL,BL
JAC
JAF
JAR
JAW
JAL
FE
GC
ZYR10
JAD
MPX
EPX

JAC Series 1000~5000 Air Filter Combination (F.R.L. Combination)

Overall Dimension

JAC1000 ~ JAC5000



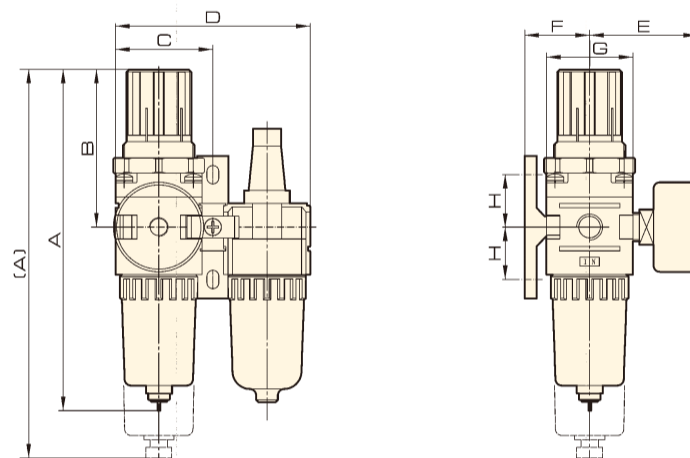
Dimension

Model	Bore	A	B	C	D	E	F	G	H
JAC1000	M5	91	33	25.5	84.5	26	25	25	20
JAC2000	1/8 - 1/4	140	50	45.5	130.5 (152.5)	56.8	30	40	24
JAC2500	1/4 - 3/8	181	64	38	156.5	60.8	41	53	35
JAC3000	1/4 - 3/8	181	64	38	156.5	60.8	41	53	35
JAC4000	3/8 - 1/2	238	84	41	191.5	65.5	50	70	40
JAC4000-06	3/4	253	89	41	193	69.5	50	70	40
JAC5000	3/4 - 1	300	105	48	271.5	75.5	69.8	90	50

JAC Series 1010~5010 Air Filter Combination (FR.L. Combination)

Overall Dimension

JAC1010 ~ JAC5010



Dimension

Model	Bore	A	B	C	D	E	F	G	H
JAC1010	M5	109.5	50.5	29	58	26	25	25	20
JAC2010	1/8 - 1/4	158 (180)	73	45	90	56.8	30	40	24
JAC3010	1/4 - 3/8	211	92.5	58.5	117	60.8	41	53	35
JAC4010	3/8 - 1/2	262	112	77	154	70.5	50	70	40
JAC4010-06	3/4	267	114	82	164	70.5	50	70	40
JAC5010	3/4 - 1	338	116	97.5	195	75.5	69.8	90	50



JAF2000



JAF4000

FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

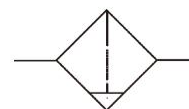
MPX

EPX

Ordering Code

JA	F	4000	04	D	N
Series	Function	Specification	Port Size	Drain Type	Wiring Form
JAF2000-02	Filter	1000	M5: M5 x 0.8	Blank: Differential Drain	Blank: Standard
		2000	01: G1/8"	D: Lever Auto Drain	N: Metal cup
		3000	02: G1/4"		
JAF3000-03		4000	03: G3/8"		
		5000	04: G1/2"		
			06: G3/4"		
			10: G1"		

Symbol



Specification

Model	JAF1000-M5	JAF2000-01	JAF2000-02	JAF3000-02	JAF3000-03	JAF4000-03	JAF4000-04	JAF4000-06	JAF5000-06	JAF5000-10
Rated Flow	110	750	750	1500	1500	4000	4000	6000	7000	7000
Port Size	M5	1/8	1/4	1/4	3/8	3/8	1/2	3/4	3/4	1
Filter Precision	25 μm									
Max. Adjustable Pressure	1.0 MPa									
Proof Pressure Resistance	1.5 MPa									
Ambient Temperature Range	5 ~ 60°C									
Container Material	Poly Carbonate									
Container Cup	Unavailable			Iron						
Drain Function	Differential Drain	Differential Drain, Automatic Drain								

JAR Series

1000~5000 Regulator



JAR2000

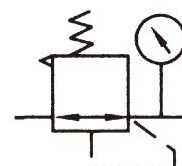


JAR4000

Ordering Code

JA	R	4000	04
Series	Function	Specification	Port Size
JAR2000-02	Regulator	1000	M5: M5 x 0.8
		2000	01: G1/8"
		2500	02: G1/4"
JAR3000-03		3000	03: G3/8"
		4000	04: G1/2"
		5000	06: G3/4"
			10: G1"

Symbol



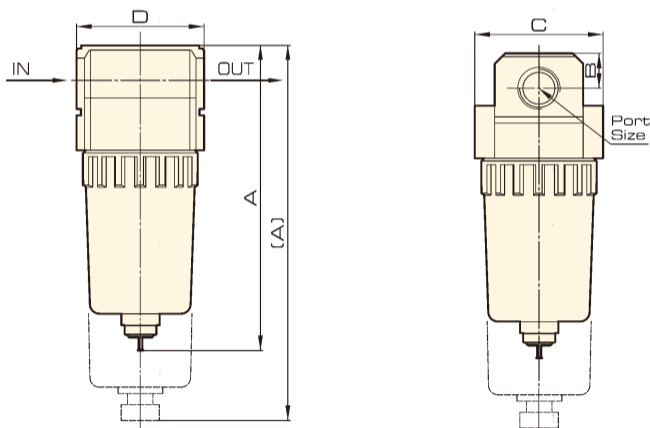
Specification

Model	JAR1000-M5	JAR2000-01	JAR2000-02	JAR2500-02	JAR2500-03	JAR3000-02	JAR3000-03	JAR4000-03	JAR4000-04	JAR4000-06	JAR5000-06	JAR5000-10
Rated Flow	110	550	550	2000	2000	2500	2500	6000	6000	6000	8000	8000
Port Size	M5	1/8	1/4	1/4	3/8	1/4	3/8	3/8	1/2	3/4	3/4	1
Max. Adjustable Pressure	1.0 MPa											
Proof Pressure Resistance	1.5 MPa											
Range of Adjustable Pressure	5 ~ 60℃											
Range of Adjustable Pressure	0.05 ~ 0.7 MPa	0.05 ~ 0.85 MPa										
Valve Type	With Overflow											

Overall Dimension

JAF Series
1000~5000 Air Filter

JAF



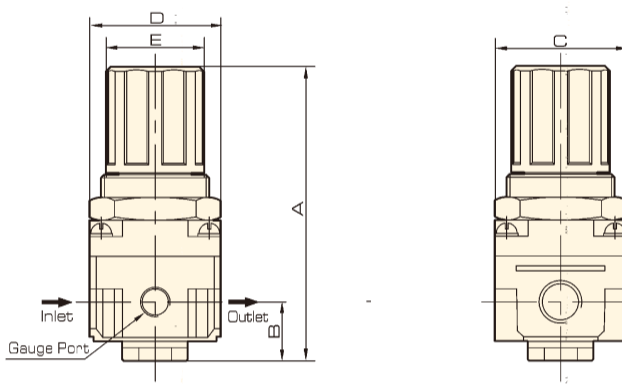
Dimension

Model	Bore	A	B	C	D
JAF1000	M5	66	7	25	-
JAF2000	1/8 - 1/4	96 (118)	11	40	40
JAF3000	1/4 - 3/8	132.5	14	53	53
JAF4000	3/8 - 1/2	168.5	18	70	70
JAF4000-06	3/4	172.5	20	70	70
JAF5000	3/4 - 1	247.5	24	90	90

Overall Dimension

JAR Series
1000~5000 Regulator

JAR



Dimension

Model	Bore	A	B	C	D	E
JAR1000	M5	61.5	11	25	25	28
JAR2000	1/8 - 1/4	95	17	40	40	34
JAR2500	1/4 - 3/8	102.5	25	48	53	34
JAR3000	1/4 - 3/8	127.5	35	53	53	40
JAR4000	3/8 - 1/2	149.5	37.5	70	70	54
JAR4000-06	3/4	154	40.5	70	75	54
JAR5000	3/4 - 1	168	48	90	90	54

FRL
AC,BC
AFC,BFC
AF,BF
AR,BR
AFR,BFR
AL,BL
JAC
JAF
JAR
JAW
JAL
FE
GC
ZYR10
JAD
MPX
EPX

JAW Series

1000~5000 Filter & Regulator



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX



JAW2000

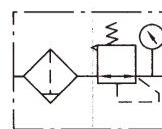


JAW3000

Ordering Code

JA	W	4000	04	D	N
Series	Function	Specification	Port Size	Drain Type	Wiring Form
JAW2000-02	Filter & Regulator	1000	M5: M5 x 0.8	Blank: Differential Drain	Blank: Standard
		2000	01: G1/8"	D: Lever Auto Drain	N: Metal cup
		3000	02: G1/4"		
JAW3000-03		4000	03: G3/8"		
		5000	04: G1/2"		
			06: G3/4"		
			10: G1"		

Symbol



Specification

Model	JAW1000-M5	JAW2000-01	JAW2000-02	JAW3000-02	JAW3000-03	JAW4000-03	JAW4000-04	JAW4000-06	JAW5000-06	JAW5000-10
Rated Flow	100	550	550	2000	2000	4000	4000	4500	5500	5500
Port Size	M5	1/8	1/4	1/4	3/8	3/8	1/2	3/4	3/4	1
Filter Precision	25μm									
Max. Adjustable Pressure	1.0 MPa									
Proof Pressure Resistance	1.5 MPa									
Operating Temperature Range	5 ~ 60℃									
Range of Adjustable Pressure	0.05 ~ 0.7 MPa		0.05 ~ 0.85 MPa							
Container Material	Poly Carbonate									
Container Cup	Unavailable			Iron						
Drain Function	Differential Drain	Differential Drain, Automatic Drain								
Valve Type	With Overflow									



JAL2000

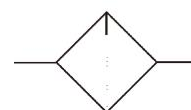


JAL4000

Ordering Code

JA	L	4000	04	N
Series	Function	Specification	Port Size	Wiring Form
JAL2000-02	Lubricator	1000	M5: M5 x 0.8	Blank: Standard
		2000	01: G1/8"	N: Metal cup
		3000	02: G1/4"	
JAL3000-03		4000	03: G3/8"	
		5000	04: G1/2"	
			06: G3/4"	
			10: G1"	

Symbol



Specification

Model	JAL1000-M5	JAL2000-01	JAL2000-02	JAL3000-02	JAL3000-03	JAL4000-03	JAL4000-04	JAL4000-06	JAL5000-06	JAL5000-10
Rated Flow	95	800	800	1700	1700	5000	5000	6300	7000	7000
Port Size	M5	1/8	1/4	1/4	3/8	3/8	1/2	3/4	3/4	1
Max. Adjustable Pressure	1.0 MPa									
Proof Pressure Resistance	1.5 MPa									
Operating Temperature Range	5 ~ 60°C									
Recommended Lubricant	ISO VG 32									
Container Material	Poly Carbonate									
Container Cup	Unavailable				Iron					

FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

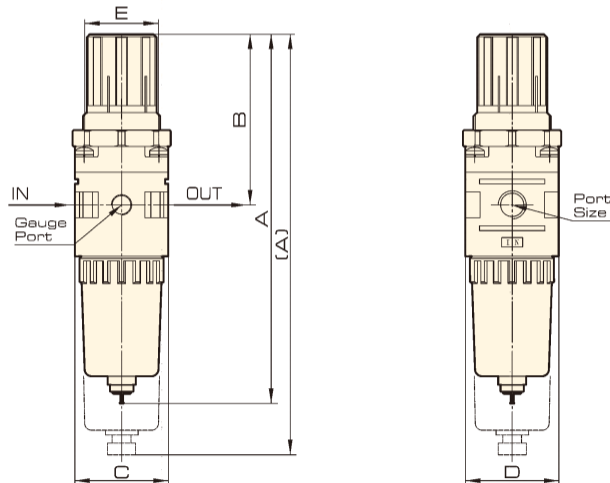
EPX

JAW Series

1000~5000 Filter & Regulator

Overall Dimension

JAW



Dimension

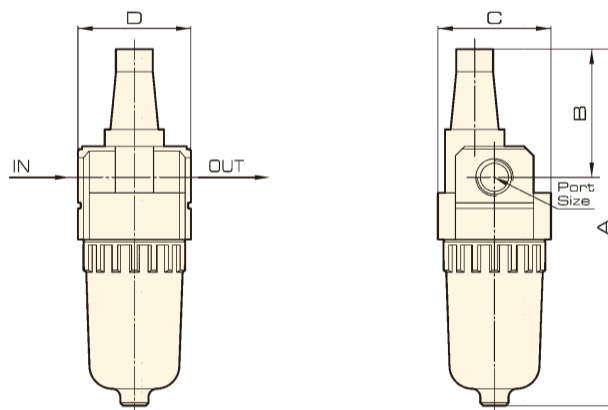
Model	Bore	A	B	C	D	E
JAW1000	M5	109.5	50.5	25	28	28
JAW2000	1/8 - 1/4	158 (180)	73	40	40	34
JAW3000	1/4 - 3/8	211	92.5	53	53	40
JAW4000	3/8 - 1/2	262	112	70	70	54
JAW4000-06	3/4	267	114	70	70	54
JAW5000	3/4 - 1	338	116	90	90	54

JAL Series

1000~5000 Lubricator

Overall Dimension

JAL



Dimension

Model	Bore	A	B	C	D
JAL1000	M5	81.5	25.5	25	-
JAL2000	1/8 - 1/4	126.5	45.5	40	40
JAL3000	1/4 - 3/8	142	38	53	53
JAL4000	3/8 - 1/2	177	41	70	70
JAL4000-06	3/4	177	39	70	70
JAL5000	3/4 - 1	254	45	90	90



FRC



LFR



LR



LF

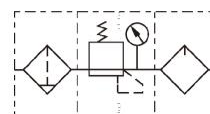


LOE

Ordering Code

FRC	3/4	7	5M	O	MAXI	A
Standard	Port Size	Pressure Range	Filter Range	Gauge	Size	Drain Type
FRC: 2 Combination	G1/8	Blank: 0.5 ... 12 bar	Blank: 40 µm	Blank: With Gauge	MINI: Mini	Blank: Hand
LFR: Filter regulator	G1/4	7: 0.5 ... 7 bar	5M: 5 µm	O: Without Gauge	MIDI: Mid	H: Semi Automatic
LR: Regulator	G3/8				MAXI: Max	A: Automatic
LF: Filter	G1/2					
LOE: Lubricator	G3/4					
	G1					

Symbol



Specification

Specification		Mini			Midi			Maxi	
Port Size		G1/8	G1/4	G3/8	G3/8	G1/2	G3/4	G3/4	G1
Working Medium		Compressed Air							
Structure Features		Filter regulator, with/without gauge proportional Lubricator							
Install Way		By Accessories							
Install Position		Tube							
Regulator Lock		Vertical ±5							
Filter Class	[µm]	Rotary handle, with lock							
Max Hysteresis	[bar]	Rotary handle, with itergrated locks							
Preessure Range	[bar]	5 or 40							
Preessure Display		0.2							
Water Capacity	[cm³]	0.5 ... 7							
Input Pressure	[bar]	0.5 ... 12							
Water	Hand	By Gauge							
Exhaust	Semi Automatic	G1/8 Preset							
	Automatic	G1/4 Preset							
		G1/4 Preset							
		22							
		43							
		80							
		1 ... 16							
		1.5 ... 16							
		2 ... 12							

FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

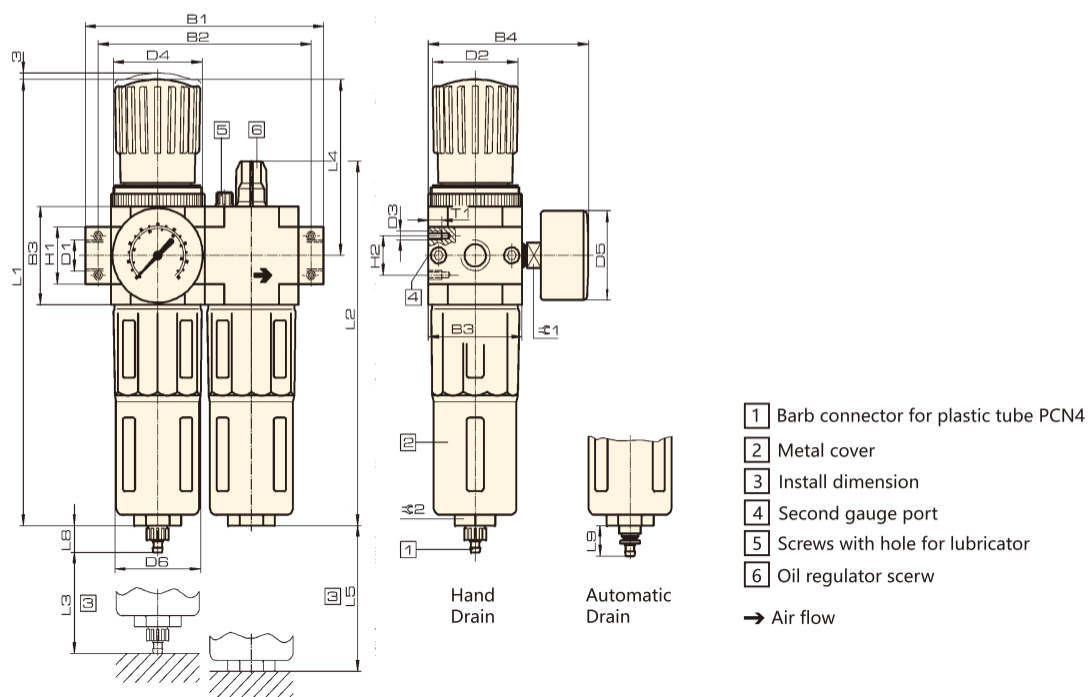
EPX

FE Series

Air Filter Combination (2 Combination)



Overall Dimension

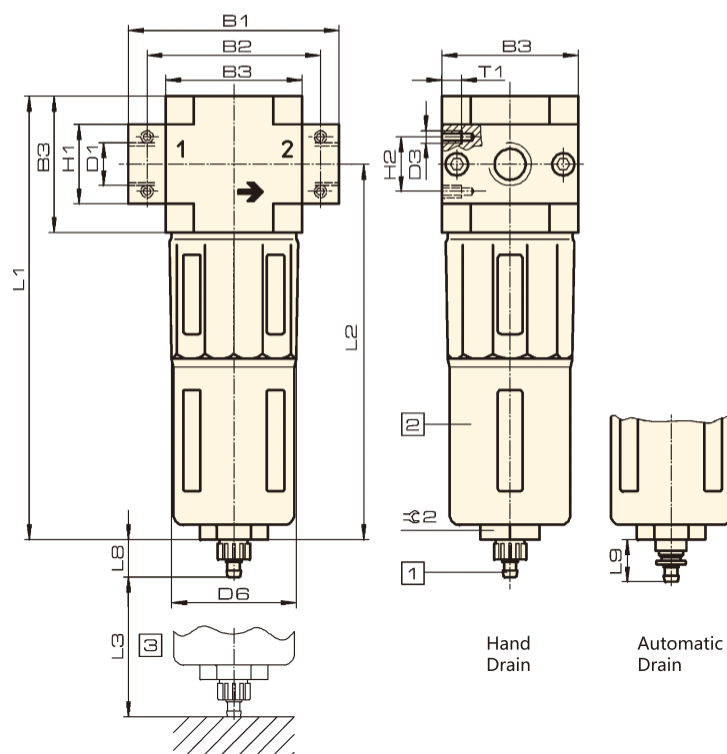


Dimension

Model	B1	B2	B3	B4	D1	ΦD2	D3	D4	ΦD5	ΦD6
Mini										
FRC-1/8-MINI	104				G1/8					
FRC-1/4-MINI		92	40	76	G1/4	31	M4	M36x1.5	41	38
FRC-3/8-MINI	110				G3/8					
Midi										
FRC-3/8-MIDI					G3/8					
FRC-1/2-MIDI	140	125	55	95	G1/2	48.5	M5	M52x1.5	50	52
FRC-3/4-MIDI					G3/4					
Maxi										
FRC-3/4-MAXI	162	146	66	107	G3/4	48.5	M5	M52x1.5	50	65
FRC-1-MAXI	182	157			G1					

Model	H1	H2	L1	L2	L3	L4	L5	L8	L9	T1	≈C 1	≈C 2
Mini												
FRC-1/8-MINI												
FRC-1/4-MINI	20	11	193	169	60	69	100	15	19	7	14	22
FRC-3/8-MINI												
Midi												
FRC-3/8-MIDI												
FRC-1/2-MIDI	32	22	250	204	80	99	120	15	19	8	14	24
FRC-3/4-MIDI												
Maxi												
FRC-3/4-MAXI	32											
FRC-1-MAXI	40	22	252	228	90	102	150	15	19	8	14	24

Overall Dimension



1 Barb connector for plastic tube PCN-4

2 Metal cover

3 Install dimension

→ Air flow

Dimension

Model	B1	B2	B3	D1	D3	ΦD6	H1	H2	L1	L2	L3	L8	L9	T1	T2	≈C 2
Mini																
LF-1/8-MINI	64	52	40	G1/8	M4	38	20	11	144	124	60	15	19	7	-	22
LF-1/4-MINI				G1/4												
LF-3/8-MINI				G3/8												
Midi																
LF-3/8-MIDI	85	70	55	G3/8	M5	52	32	22	179	151	80	15	19	8	-	24
LF-1/2-MIDI				G1/2												
LF-3/4-MIDI				G3/4												
Maxi																
LF-3/4-MAXI	116	91	66	G3/4	M5	65	32	22	203	170	90	15	19	8	-	24
LF-1-MAXI				G1												

FRL

AC,BC

AF,BC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

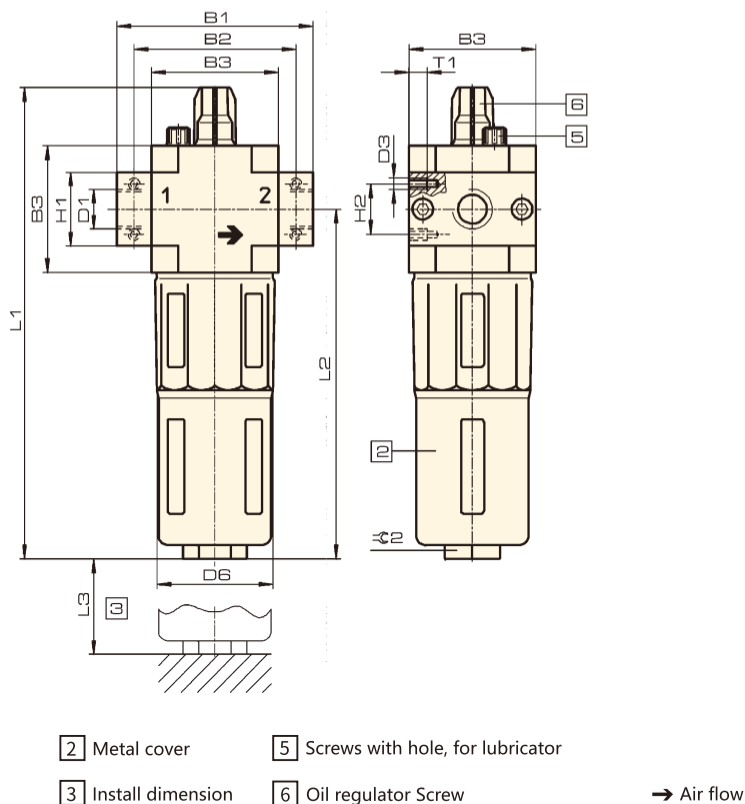
EPX

FE Series

Air Filter Combination (2 Combination)



Overall Dimension



Dimension

Model	B1	B2	B3	B4	B5	D1	ΦD2	D3	ΦD6	H1	H2	L1	L2	L3	T1	T2	≈C2
Mini																	
LOE-1/8-MINI						G1/8											
LOE-1/4-MINI	64	52	40	30	-	G1/4	-	M4	38	20	11	169	124	100	7	-	22
LOE-3/8-MINI						G3/8											
Midi																	
LOE-3/8-MIDI						G3/8											
LOE-1/2-MIDI	85	70	55	43	-	G1/2	-	M5	52	32	22	204	151	120	8	-	24
LOE-3/4-MIDI						G3/4											
Maxi																	
LOE-3/4-MAXI	116	91	66	46	-	G3/4	-	M5	65	40	22	228	170	150	8	-	24
LOE-1-MAXI						G1											



GC200-08



GFC200-08



GFC300-10



GFR300-10



GR300-10

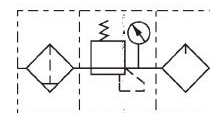
Ordering Code

GC	200	08	M	F	1	W	G
Code	Series	Port Size	Drain	Pressure Gauge	Scale	Filter Accuracy	Thread
GC: 3 Combination	200 Series	06: PT 1/8	Blank: Semi-auto drain	F: Square type	1: MPa	Blank: 40 μ	Blank: PT
GFC: 2 Combination	300 Series	08: PT 1/4	M: Manual drain	C: Traditional type	2: Psi	W: 5 μ	G: PS
GFR: Filter-regulator combination	400 Series	10: PT 3/8	A: Auto drain				T: NPT
GF: Filter		15: PT 1/2					
GR: Regulator							
GL: Lubricator							

*Note: No Auto Drain type is available on GC 200 Series.

*Note: Max. adjustable pressure is at 0.4 MPa on Low pressure type.

Symbol



Specification

Model		GC200-06	GC200-08	GC300-08	GC300-10	GC300-15	GC400-10	GC400-15
Working medium		Air						
Port Size		PT1/8	PT1/4	PT1/4	PT3/8	PT1/2	PT3/8	PT1/2
Filtration		40 μ or 5 μ						
Adjustable pressure range		0.15-0.9MPa						
Maximum working pressure		1.0MPa						
Proof Pressure		1.5MPa						
Operating Temperature Range		5-60°C						
Capacity of Filter Cup		10CC		40CC			80CC	
Capacity of Oil Cup		25CC		75CC			160CC	
Recommended Lubrication		ISO VG 32 or Same Grade						
Weight		580g		1300g			2358g	
Components	Filter	GF200-06	GF200-08	GF300-08	GF300-10	GF300-15	GF400-10	GF400-15
	Regulator	GR200-06	GR200-08	GR300-08	GR300-10	GR300-15	GR400-10	GR400-15
	Lubricator	GL200-06	GL200-08	GL300-08	GL300-10	GL300-15	GL400-10	GL400-15

FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

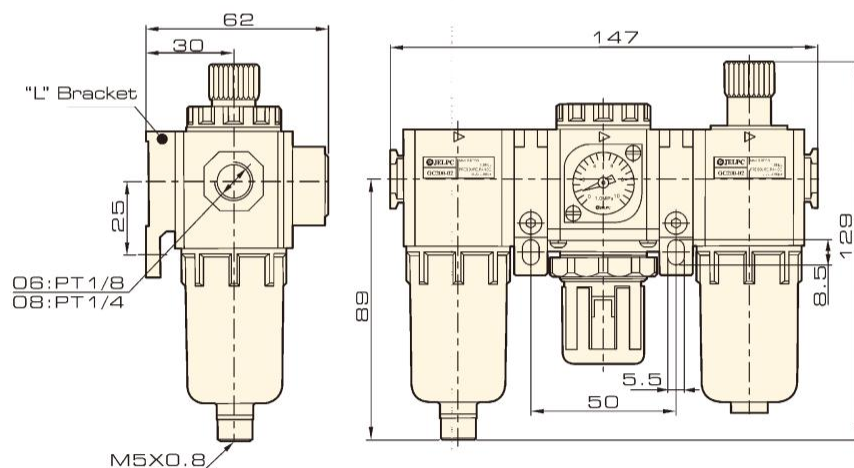
GC Series

Air Source Unit (3 or 2 Combination)



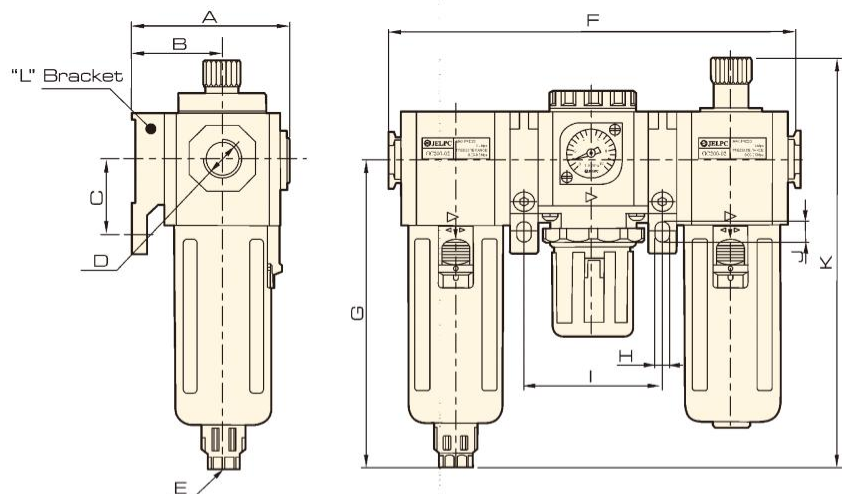
Overall Dimension

GC200



GC300

GC400



Dimension

Model / Symbol	A	B	C	D	E	F	G	H	I	J	K
GC300-08	71	41.5	35	PT1/4	PS1/8	188	143	6.5	64	9	188
GC300-10	71	41.5	35	PT3/8	PS1/8	188	143	6.5	64	9	188
GC300-15	71	41.5	35	PT1/2	PS1/8	188	143	6.5	64	9	188
GC400-10	85.5	50	40	PT3/8	PS1/4	248	166.5	8.6	84	12	216
GC400-15	85.5	50	40	PT1/2	PS1/4	248	166.8	8.6	84	12	216

ZYR10 Series

Oxygen Supply Regulator



Ordering Code

ZYR10**KR**

Model

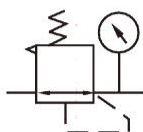
ZYR10

Valve Type

KR: With Overflow

XD: Without Overflow

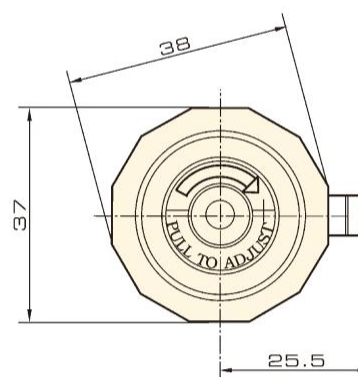
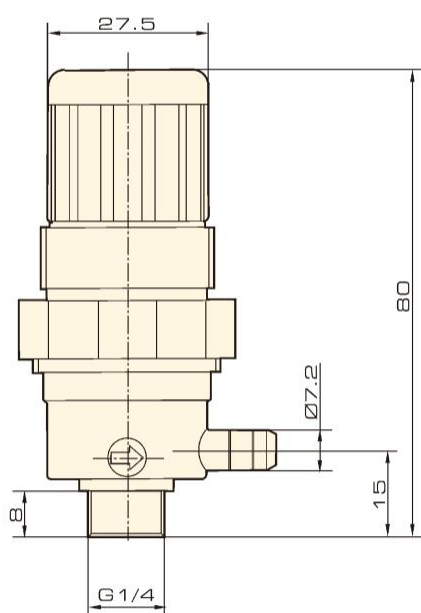
Symbol



Specification

Model	ZYR10
Orifice	4mm
Working Medium	Compressed Air
Working Pressure Range	0-0.08MPa
Medium Temperature	5-+60°C
Ambient Temperature	5-+60°C
Port Size	G1/4"

Overall Dimension



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

JAD Series

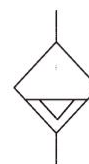
Auto-drain



Ordering Code

JAD	402	02
Specification	Series	Inlet Port Size
JAD: Auto-drain	402 Series	02: G1/4 03: G3/8 04: G1/2

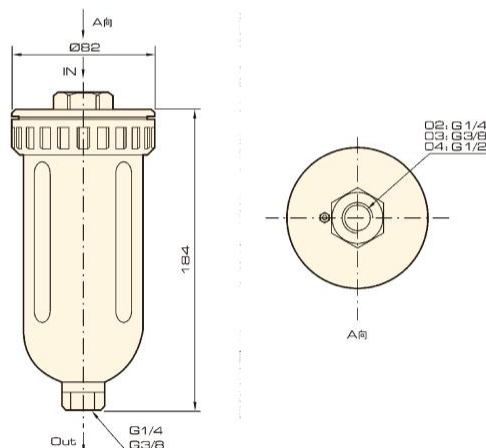
Symbol



Specification

Model	JAD402-02	JAD402-03	JAD402-04
Working Medium	Air		
Inlet Port Size	G1/4	G3/8	G1/2
Outlet Port Size	G1/4	G1/4	G3/8
Proof Pressure	1.5MPa		
Max. Test Pressure	1.0MPa		
Ambient Temperature Range	5~60°C		

Overall Dimension



MPX Series

Digital Pressure Sensor



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

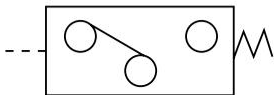
ZYR10

JAD

MPX

EPX

Symbol



Ordering Code

MPX	R01	N		6M		KA	
Pressure Range	Output Type	Measuring Liquid	Piping Size	cable	Unit Switching	Display Angle	
R01 -101.3~101.3kPa	N P NH PH -485	blank: Air or non-corrosive gas R: Non-corrosive fluid for SUS-316 stainless steel and Viton	R1/8 6M: M5 Female Thread	2 meter blank: cable with connector	With unit KA: switching function	Blank: At standard 12 o'clock D6: Display direction from bottom to top	

MPX Series

Digital Pressure Sensor



FRL
AC,BC
AFC,BFC
AF,BF
AR,BR
AFR,BFR
AL,BL
JAC
JAF
JAR
JAW
JAL
FE
GC
ZYR10
JAD
MPX
EPX

Specification

Item		Standard Type	
		Low pressure Application MPX-R01	High pressure Application MPX-R01
Pressure Sensing Element		Diffusion Semiconductor Pressure Sensor	
Applicable Fluid		Air or Non-Corrosive Gas	
Pressure Form		Gauge Pressure	
Rated Pressure Range		-101.3~+101.3kPa	-101.3kPa~+1MPa
Set Pressure Range		-101.3~+101.3kPa	-101.3kPa~+1MPa
Unit Representation		kPa	MPa
Minimum Unit of Representation		0.1kPa	0.001MPa
Unit Switching Function		Mpa, kPa, kgf/cm ² , bar, psi, mmHg, inchHg	
Guaranteed Withstand Pressure		200kPa	1.5MPa
Repeatability Precision		±0.1% Full Scale (Within ±2-digit)	±0.2% Full Scale (Within ±2-digit)
Temperature Characteristics (20° as the benchmark)		Within ±0.5 full scale	Within ±1 full scale
Display		4-digit+4-digit tri-color LED display (Display update cycle: 250ms, 1000ms select with the operation keys)	
Display Light		Red, green and orange LED (Comparison output 1 action display light, comparison output 2 action display light: when the comparison output is ON, the light is on.)	
Power supply voltage		12~24V, DC±10%, Fluctuation below P-P10%	
Power		Usually: below 840mW (under 35nW in voltage 24V) Energy-saving mode: below 600mW in standard time (under 25mW in voltage 24V) and below 480mW in full scale (under 20mW in voltage 24V)	
Comparative Output (Switched Output)	NPN Output Type	NPN Diode, open Connector, maximum Inflow Current: 100mA, additional Voltage: below 30DC (When comparison output 0V), residual voltage: below 2V (when the outflow current is 100mA)	
	Output Action	Normally open/Normal close select with the operation keys	
	Output Mode	Simple Mode / Hysteresic mode / Window Comparison Mode	
	Response Deviation (Hysteresis)	Minimum 1-digit (variable)	
	Response Time	2.5ms, 5ms, 10ms, 25ms, 50ms, 100ms, 250ms, 500ms, 1000ms, 5000ms select with the operation keys	
	Short Circuit Protection	Standard	
Environmental Resistance	Enclosure	IP40 (IEC)	
	Operating Temperature Range	-10~+50°C, stored: -10~+60°C	
	Operating Humidity Range	35~85%RH ((No condensation or freezing), stored: 35~85%RH)	
	Voltage Withstand	AC1000V for 1 minute, between terminals and housing	
	Insulation Resistance	Below DC500V, more than 50MΩ measured via megohmmeter, between terminals and housing	
	Vibration Resistance	10~500 Hz, amplitude 3mm, XYZ in each direction for 2 hours (When installing the panel: 10~15 Hz, amplitude 0.75mm, XYZ in each direction for 2 hours)	
	Impact Resistance	100m/S2 (about 10G), XYZ in each direction for 3 times	
Connecting Mode		Connector	
Connecting Port		M5 female thread+R (PT) 1/8 male thread	
Weight		Body weight: about 40g, Whole package: about 135g	
Accessories		MPX-C2 wiring (2M cable with connector) : 1 pcs	

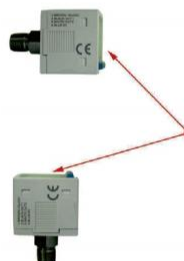
Accessories Model

MPX — C2

Symbol	Content
C2	2M cable with connector
KL	Mounting bracket (With mounting screw
KHS	With panel bracket
KCB	Transparent panel protective cover

*MPX-R□□R-6M-KA, R stands for corrosion resistance sensor.

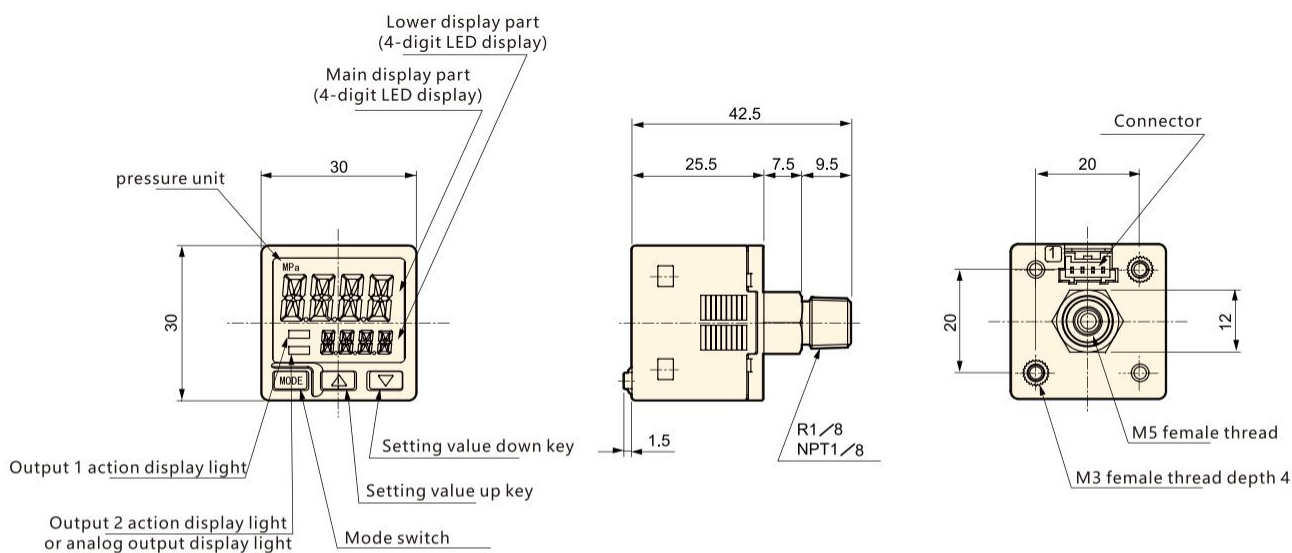
Notice



*If use the picture on the left to see the direction, please use products of D6 display direction.

Dimension

► MPX-R□□-6M(R thread)



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

MPX Series

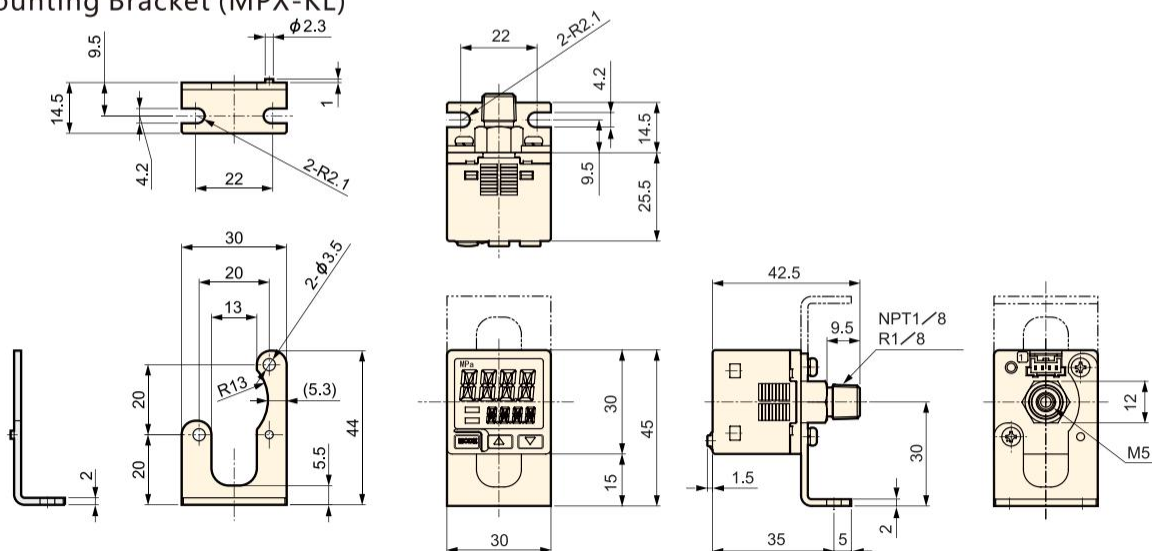
Digital Pressure Sensor



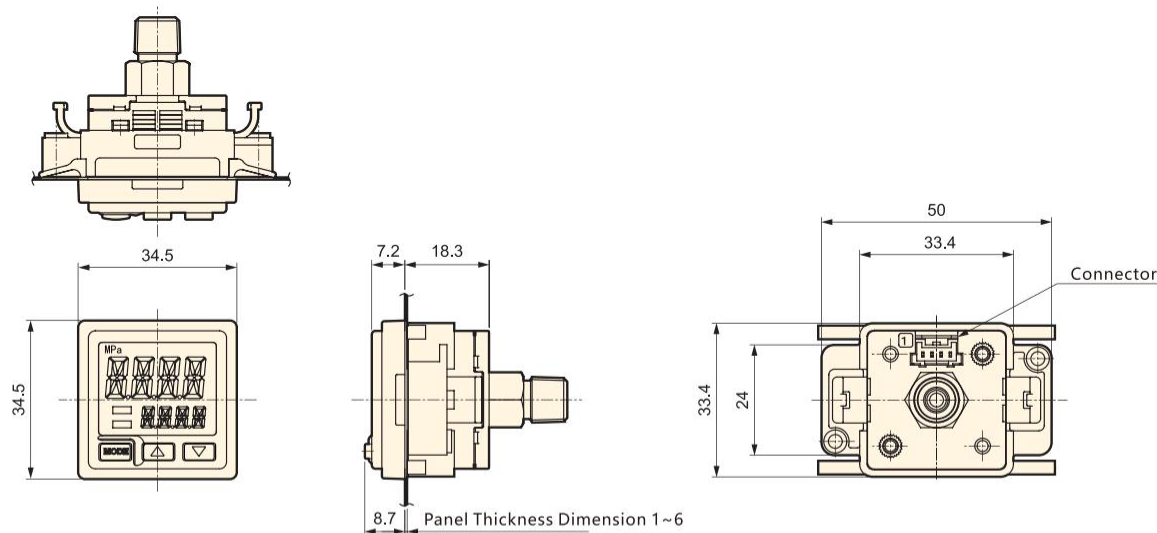
FRL
AC,BC
AFC,BFC
AF,BF
AR,BR
AFR,BFR
AL,BL
JAC
JAF
JAR
JAW
JAL
FE
GC
ZYR10
JAD
MPX
EPX

Dimension with accessories

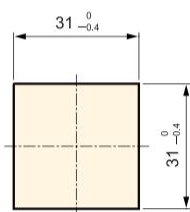
► Mounting Bracket (MPX-KL)



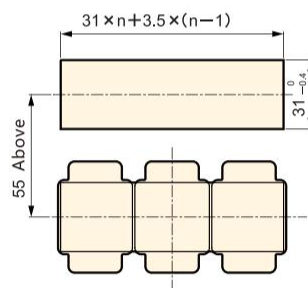
► Panel Mounting Bracket (MPX-KHS) Assembly Dimension



► Dimensions of panel openings The situation of installing 1 pcs

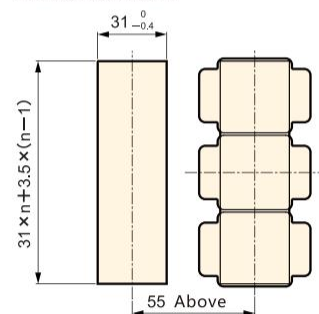


► Multiple horizontally continuous installations



*Please set the panel thickness to 5~6mm.

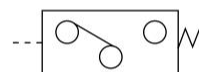
► Multiple vertically continuous installations



*Please set the panel thickness to 5~6mm.



Symbol



Specification

Item		Standard Type	
		Low pressure Application EPX-R01	High pressure Application EPX-R10
Pressure Sensing Element		Diffusion Semiconductor Pressure Sensor	
Applicable Fluid		Air or non-corrosive SUS316L fluids	
Pressure Form		Gauge Pressure	
Rated Pressure Range		-101.3~+101.3kPa	-101.3kPa~+1MPa
Set Pressure Range		-101.3~+101.3kPa	-101.3kPa~+1MPa
Unit Representation		kPa	MPa
Minimum Unit of Representation		0.1kPa	0.001MPa
Unit Switching Function		Mpa, kPa, kgf/cm ² , bar, psi, mmHg, inchHg	
Guaranteed Withstand Pressure		200kPa	1.5MPa
Repeatability Precision		±0.2% Full Scale(Within ±2-digit)	±0.2% Full Scale(Within ±2-digit)
Temperature Characteristics (20° as the benchmark)		Within ±0.5 full scale	Within ±1 full scale
Display		4-digit+4-digit tri-color LED display(Display update cycle: 250ms,1000ms select with the operation keys)	
Display Light		Red, green and orange LED (Comparison output 1 action display light, comparison output 2 action display light: When the comparison output is ON, the light is on.	
Power supply voltage		12~24V,DC±10%,Fluctuation below P-P10%	
Power		Usually: below 840mW (under 35nW in voltage 24V) Energy-saving mode: below 600mW in standard time (under 25mW in voltage 24V) and below 480mW in full scale (under 20mW in voltage 24V).	
Comparative Output (Switched Output)	NPN Output Type	NPN Diode, open Connector, maximum Inflow Current: 100mA, additional Voltage: below 30VDC (When comparison output 0V), residual voltage: below 2V (when the outflow current is 100mA)	
	Output Action	Normally open/Normal close select with the operation keys	
	Output Mode	Simple Mode / Hysteretic mode / Window Comparison Mode	
	Response Deviation(Hysteresis)	Minimum 1-digit (variable)	
	Response Time	2.5ms, 5ms, 10ms, 25ms, 50ms, 100ms, 250ms, 500ms, 1000ms, 5000ms select with the operation keys	
Short Circuit Protection		Standard	
Environmental Resistance	Enclosure	IP65	
	Operating Temperature Range	-10~+50°C, stored: -10~+60°C	
	Operating Humidity Range	35~85%RH(But not dew or ice), stored: 35~85%RH	
	Voltage Withstand	AC1000V for 1 minute, between terminals and housing	
	Insulation Resistance	Below DC500V, more than 50MΩ measured via megohmmeter, between terminals and housing	
	Vibration Resistance	10~500Hz, amplitude 3mm, XYZ in each direction for 2 hours	
Impact Resistance		100m/S2 (about 10G), XYZ in each direction for 3 times	
Connecting Mode		Connector	
Connecting Port		M5 female thread+R (PT) 1/4 male thread	
Weight		Body weight: about 40g, Whole package: about 135g	
Accessories		EPX wiring (2M cable with connector): 1 pcs	

FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

EPX Series

Digital Pressure Sensor



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

EPX	R01	N		8M		KA	
	Pressure Range	Output Type	Measuring Liquid	Piping size	Cable	Unit Switching	Display Angle
	R01 -101.3~-101.3kPa	N P NH PH -485	R: Non-corrosive fluid for SUS-316 stainless steel and Viton R1: Special type for electrolyte resistance *	R1/4 8M: M5 Female Thread	2 meter blank: cable with connector	With unit KA: switching function	Blank: At standard 12 o'clock D6: Display direction from bottom to top

*Our company used MJS-LBE01-180101 electrolyte for immersion test, and there was no abnormality. There was no data support for other electrolytes.

Accessories Model

Symbol	Content
EPX-KL	Mounting bracket (With mounting screw)
CPX-ZJT	Adapter (RC1/4 to RC1/8,M5)

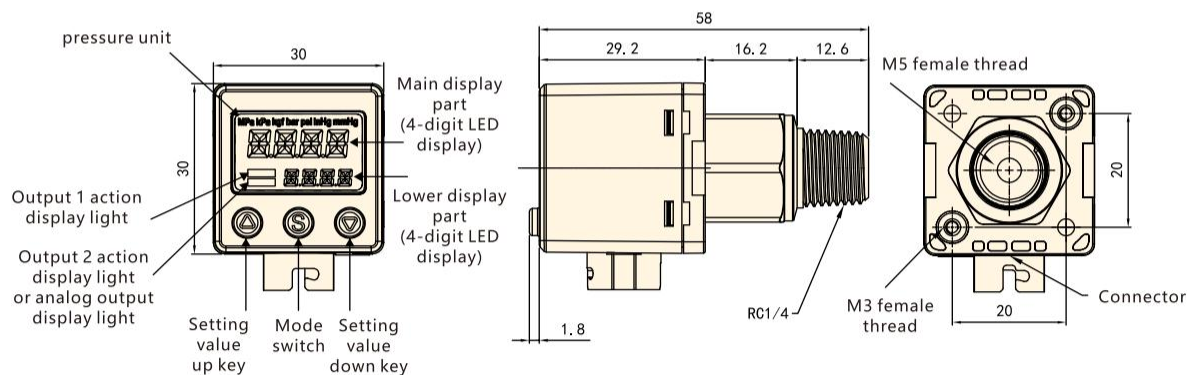
Notice



*If use the picture on the left to see the direction, please use products of D6 display direction.

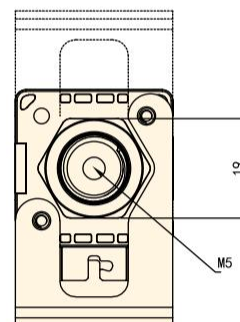
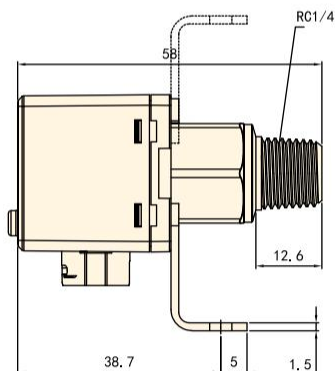
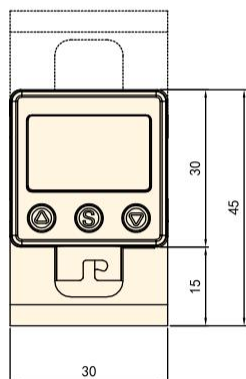
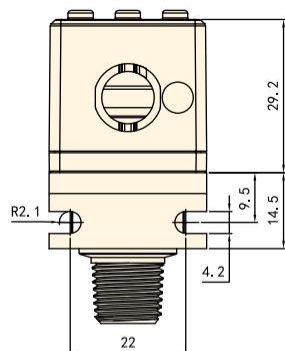
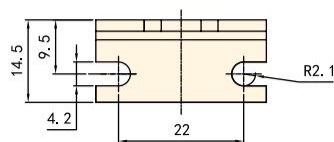
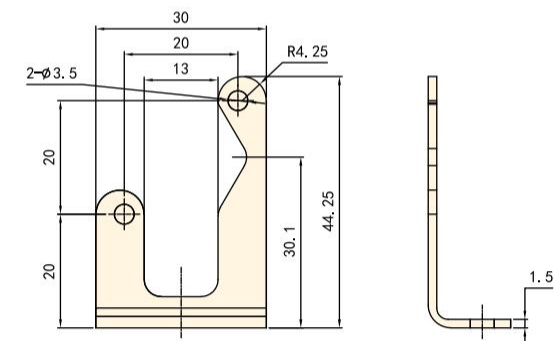
Dimension

► EPX-R□□-8M(R thread)



Dimension with accessories

► Mounting Bracket (EPX-KL)



FRL

AC,BC

AFC,BFC

AF,BF

AR,BR

AFR,BFR

AL,BL

JAC

JAF

JAR

JAW

JAL

FE

GC

ZYR10

JAD

MPX

EPX

1

Control Component

2

Execution Component

3

Air Source Unit

4

 JELPC®

PNEUMATIC ACCESSORY



CONTENTS OF PNEUMATIC ACCESSORY



4-01 HAC, HAD Series Shock Absorber



4-05 HR Series Hydraulic Speed Regulator



4-06 HAC, HAD Series Shock Absorber Accessories



4-07 Pneumatic Accessories



4-13 Metal Fast Fitting



4-13 Silencer



4-13 PU Spiral Fitting / Nylon / Polyurethane / PU Tube

HAC, HAD Series

Shock Absorber



- Accessories
- HAC/ HAD
- HR
- HAC/D A.
- Accessories



Ordering Code

HAD	25	x	50	2	N
Series Code	Male Size		Stroke	Impact Speed	Cushion Cap
HAC: Multi-hole Non-adjustable mode			6-150mm	1: High impact speed 2: Medium impact speed 3: Low impact speed	Blank: With cushion cap N: Without cushion cap
HAD: Adjustable mode					
HACD: Multi directional cushion mode					

HAC Series

Accessories

HAC/ HAD

HR

HAC/D A.

Accessories

Specification

Item	Stroke (mm)	Max. absorbing Energy (Nm)	Absorbing Energy/Hour (Nm)	Max. Availability Weight (Kg)			The highest impact Speed (m/s)		
				1	2	3	1	2	3
HAC-0806	6	2	7,200	0.5	2	6	2	1	0.5
HAC-1005	5	3	10,800	1	3	7	3	1.5	0.8
HAC-1008	8	4	14,400	2	4	9	3	1.5	0.8
HAC-1210	10	5	18,000	5	10	30	2	1.5	0.8
HAC-1412	12	15	36,000	8	50	100	3	1.5	0.8
HAC-1416	16	20	40,000	10	70	150	3	1.5	0.8
HAC-1420	20	25	48,000	12	80	160	3	1.5	0.8
HAC-2020	20	40	48,000	30	200	700	3.5	2	1
HAC-2030	30	50	54,000	30	200	700	3.5	2	1
HAC-2050	50	60	66,000	60	400	1200	3.5	2	1
HAC-2525	25	80	60,000	200	800	1500	4	2.5	1
HAC-2540	40	120	84,000	300	1200	2000	4	2.5	1
HAC-2550	50	98	98,000	15	40	160	4	2.5	1
HAC-2580	80	150	127,500	20	50	200	4	2.5	1
HAC-3660	60	250	125,000	400	1500	2400	4	2.5	1
HACD-2030	30	45	54,000	40	300	900	3.5	2	1
HACD-2035	35	52	62,400	40	200	650	3.5	2	1

* Working Temperature -10 ~ 80 °C

HAD Series

Specification

Item	Stroke (mm)	Max. absorbing Energy (Nm)	Absorbing Energy/ Hour (Nm)	Max. Availability Weight (Kg)	The highest impact Speed (m/s)
HAD-1410	10	20	24,000	80	3.2
HAD-1415	15	22	26,400	120	3.2
HAD-2016	16	25	32,000	200	3.6
HAD-2025	25	39	39,000	312	3.6
HAD-2525	25	85	51,000	400	3.6
HAD-2530	30	95	57,000	480	3.6
HAD-2540	40	100	84,000	700	3.6
HAD-2550	50	98	98,000	720	4.2
HAD-2580	80	150	127,500	800	4.2
HAD-3625	25	150	90,000	1,400	3.2
HAD-3650	50	300	108,000	1,400	3.2
HAD-4225	25	260	130,000	3,000	3.6
HAD-4250	50	500	155,000	4,000	4.8
HAD-4275	75	750	187,000	6,000	4.8
HAD-64050	50	12,000	1,560,000	12,727	1.6
HAD-64100	100	24,000	1,920,000	18,181	1.6
HAD-64150	150	36,000	2,520,000	23,636	1.6

* Working Temperature -10 ~ 80 °C

HAC, HAD Series

Shock Absorber



Accessories

HAC/ HAD

HR

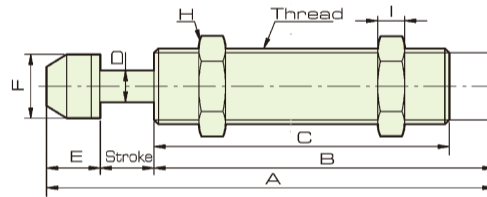
HAC/D A.

Accessories

Overall Dimension

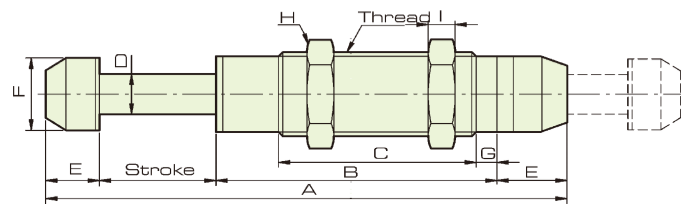
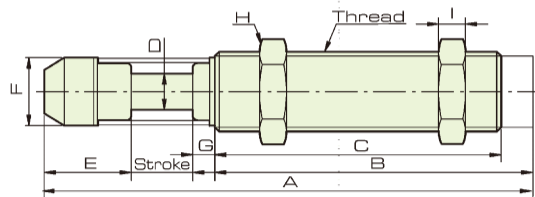
HAC-2540

HAC-3660



HAC-2030

HAC-2035

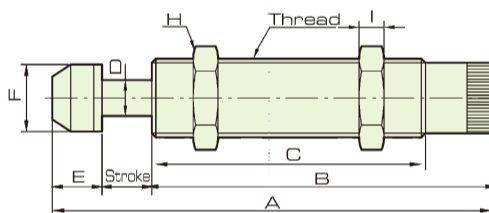


Dimension

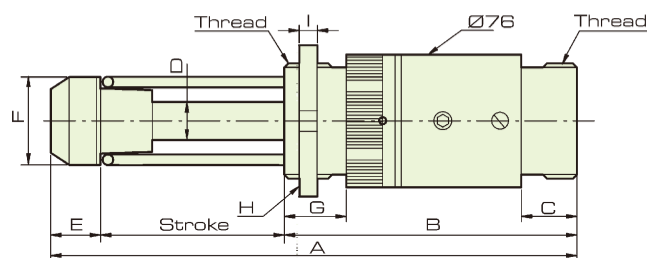
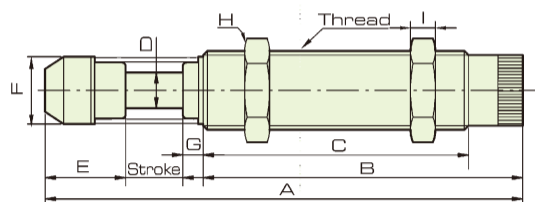
Specification/ Symbol	Thred	A	B	C	D	E	F	G	H	I
HAC-0806	M8×1.0	50	38	33	2.8	6	6.6	-	11	3
HAC-1005	M10×1.0	38.7	27.7	22.9	3	6	8.6	-	12.7	3
HAC-1008	M10×1.0	57	43	38	3	6	8.6	-	12.7	3
HAC-1210	M12×1.0	69.5	50	45.5	3	9.5	10.3	-	14	4
HAC-1412	M14×1.5	102.3	76	67	4	14.3	12	-	19	6
HAC-1416	M14×1.5	125.3	95	86	4	14.3	12	-	19	6
HAC-1420	M14×1.5	129.3	95	86	4	14.3	12	-	19	6
HAC-2020	M20×1.5	148	110	101	6	18	18	-	26	8
HAC-2030	M20×1.5	158	110	101	6	18	18	-	26	8
HAC-2050	M20×1.5	235	167	158	6	18	18	-	26	8
HACD-2030	M20×1.5	189	123	44	6	18	18	5	26	8
HACD-2035	M20×1.5	223	123	40	6	15	18	3	26	8
HAC-2525	M25×1.5	155.5	111	101	6	19.5	22	-	32	10
HAC-2540	M25×1.5	213	137	117	8	36	22	10	32	10
HAC-2550	M25×1.5	240	170.5	100	8	19.5	22	-	32	10
HAC-2580	M25×1.5	336.5	237	100	8	19.5	22	-	32	10
HAC-3660	M36×1.5	248	162	134	10	26	35	17	46	15

Overall Dimension

- HAD-2540
- HAD-3625
- HAD-3650



- HAD-64050
- HAD-64100
- HAD-64150



Specification

Specification/ Symbol	Thred	A	B	C	D	E	F	G	H	I
HAD-1410-N	M14×1.5	-	88.5	72.5	4	-	-	-	19	6
HAD-1410	M14×1.5	112.8	88.5	72.5	4	14.3	12	-	19	6
HAD-1415-N	M14×1.5	-	88.5	72.5	4	-	-	-	19	6
HAD-1415	M14×1.5	117.8	88.5	72.5	4	14.3	12	-	19	6
HAD-2016-N	M20×1.5	-	117	101	6	-	-	-	26	8
HAD-2016	M20×1.5	151	117	101	6	18	18	-	26	8
HAD-2025-N	M20×1.5	-	117	101	6	-	-	-	26	8
HAD-2025	M20×1.5	160	117	101	6	18	18	-	26	8
HAD-2525-N	M25×1.5	-	118.5	101	8	-	-	-	32	10
HAD-2525	M25×1.5	163	118.5	101	8	19.5	22	-	32	10
HAD-2530-N	M25×1.5	-	118.5	101	8	-	-	-	32	10
HAD-2530	M25×1.5	168	118.8	101	8	19.5	22	-	32	10
HAD-2540	M25×1.5	220	144.5	117	8	36	-	10	32	10
HAD-2550	M25×1.5	247.5	178	100	8	19.5	22	-	32	10
HAD-2580	M25×1.5	344	244.5	100	8	19.5	-	12.5	32	10
HAD3625	M36×1.5	183.8	133	103	10	25.8	35.5	10	46	10
HAD-3650	M36×1.5	246.8	171	134	10	25.8	35.5	17	46	15
HAD-4225	M42×1.5	186.4	127.5	88	12	33.9	44.5	28.5	50	15
HAD-4250	M42×1.5	240.9	157	117.5	12	33.9	44.5	28.5	50	15
HAD-4275	M42×1.5	301.4	187.5	148	12	33.9	44.5	28.5	50	15
HAD-64050	UNF21/2-12	247.8	146	26	20	51.8	59	23	76.2	9.4
HAD-64100	UNF21/2-12	247.8	196	26	20	51.8	59	23	76.2	9.4
HAD-64150	UNF21/2-12	467.8	256	26	20	51.8	59	23	76.2	9.4

Accessories

HAC/ HAD

HR

HAC/D A.

Accessories

HR Series

Hydraulic Speed Regulator



Accessories

HAC/ HAD

HR

HAC/D A.

Accessories



HR15

HR30

Ordering Code

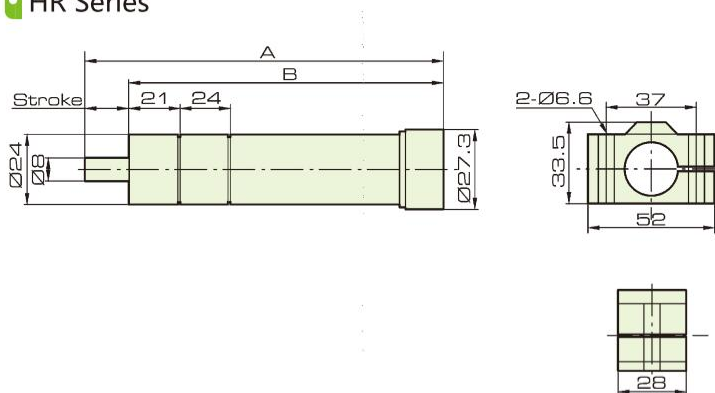
HR	30	x	F
Series Code	Stroke		Bracket

HR: Adjustable hydraulic speed regulator



Overall Dimension

HR Series



Dimension

Specification/ Symbol	A	B	Max. Stroke (mm)	Working Temperature (°C)	Max. Charge (kgf)
HR15	151	136	15	-10 ~ 85	550
HR30	203	172	30	-10 ~ 85	550
HR60	280	219	60	-10 ~ 85	550
HR80	336	256	80	-10 ~ 85	550
HR100	390	290	100	-10 ~ 85	550

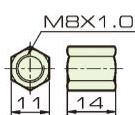
Ordering Code

HSC	12
Series Code	Specification
HSC: Shock Absorber Orientation Nut	F: M36 ~ M64

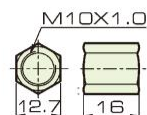


Overall Dimension

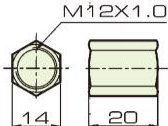
HSC-08



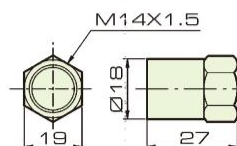
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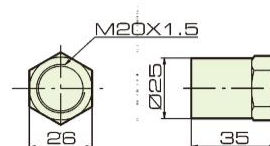
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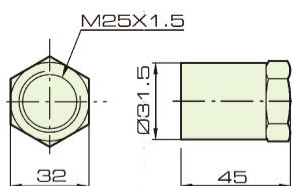
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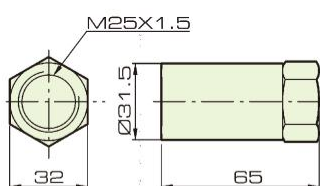
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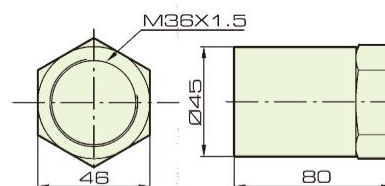
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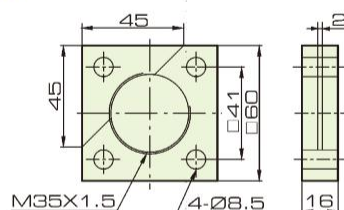
HSC-40



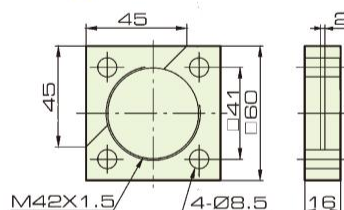
HSC-50



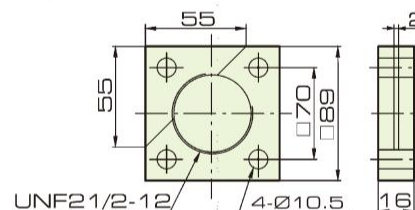
F-36



F-42



F-64



Selection

Specification	HSC-08	HSC-10	HSC-12	HSC-14	HSC-20	HSC-25	HSC-40	HSC-50	F36	F42	F64
选用项目	HAC-0806	HAC-1005 HAC-1007 HAC-1008	HAC-1210	HAC-1412 HAC-1415 HAC-1416 HAC-1420 HAD-1410 HAD-1415	HAC-2015 HAC-2020 HAC-2030 HAC-2050 HACD-2030 HAD-2016 HAD-2025	HAC-2525 HAC-2550 HAC-2580 HAD-2525 HAD-2530 HAD-2550 HAD-2580	HAC-2540 HAD-2540	HAC-3660 HAD-3625 HAD-3650	HAC-3660 HAD-3650	HAD-4225 HAD-4250 HAD-4275	HAD-46015 HAD-64100 HAD-64150

Pneumatic Accessories



Accessories

HAC/ HAD

HR

HAC/D A.

Accessories

Push-in Fittings Quick Type for Pneumatic Tubing

IPC-(G) Male Straight

	Model (ΦD-T)				
	Tube Dia(mm) - Thread Size (R)/(G)		Tube Dia(inch) - Thread Size (NPT)		
	IPC4-M5	IPC6-(G)04	IPC12-(G)02	IPC5/32-N01	IPC5/16-N03
	IPC4-M6	IPC8-(G)01	IPC12-(G)03	IPC5/32-N02	IPC5/16-N04
	IPC4-(G)01	IPC8-(G)02	IPC12-(G)04	IPC3/16-N01	IPC3/8-N01
	IPC4-(G)02	IPC8-(G)03	IPC14-(G)03	IPC3/16-N02	IPC3/8-N02
	IPC4-(G)03	IPC8-(G)04	IPC14-(G)04	IPC1/4-N01	IPC3/8-N03
	IPC6-M5	IPC10-(G)01	IPC15-(G)03	IPC1/4-N02	IPC3/8-N04
	IPC6-M6	IPC10-(G)02	IPC15-(G)04	IPC1/4-N03	IPC1/2-N01
	IPC6-(G)01	IPC10-(G)03	IPC16-(G)03	IPC1/4-N04	IPC1/2-N02
	IPC6-(G)02	IPC10-(G)04	IPC16-(G)04	IPC5/16-N01	IPC1/2-N03
	IPC6-(G)03	IPC12-(G)01	IPC16-(G)06	IPC5/16-N02	IPC1/2-N04

IPCF-(G) Female Straight

	Model (ΦD-T)				
	Tube Dia(mm) - Thread Size (R)/(G)		Tube Dia(inch) - Thread Size (NPT)		
	IPCF4-M5	IPCF6-(G)04	IPCF12-(G)02	IPCF5/32-N01	IPCF5/16-N03
	IPCF4-M6	IPCF8-(G)01	IPCF12-(G)03	IPCF5/32-N02	IPCF5/16-N04
	IPCF4-(G)01	IPCF8-(G)02	IPCF12-(G)04	IPCF3/16-N01	IPCF3/8-N01
	IPCF4-(G)02	IPCF8-(G)03		IPCF3/16-N02	IPCF3/8-N02
	IPCF4-(G)03	IPCF8-(G)04		IPCF1/4-N01	IPCF3/8-N03
	IPCF6-M5	IPCF10-(G)01		IPCF1/4-N02	IPCF3/8-N04
	IPCF6-M6	IPCF10-(G)02		IPCF1/4-N03	IPCF1/2-N01
	IPCF6-(G)01	IPCF10-(G)03		IPCF1/4-N04	IPCF1/2-N02
	IPCF6-(G)02	IPCF10-(G)04		IPCF5/16-N01	IPCF1/2-N03
	IPCF6-(G)03	IPCF12-(G)01		IPCF5/16-N02	IPCF1/2-N04

IPB-(G) Male Branch Tee

	Model (ΦD-T)				
	Tube Dia(mm) - Thread Size (R)/(G)		Tube Dia(inch) - Thread Size (NPT)		
	IPB4-M5	IPB6-(G)04	IPB12-(G)02	IPB5/32-N01	IPB5/16-N03
	IPB4-M6	IPB8-(G)01	IPB12-(G)03	IPB5/32-N02	IPB5/16-N04
	IPB4-(G)01	IPB8-(G)02	IPB12-(G)04	IPB3/16-N01	IPB3/8-N01
	IPB4-(G)02	IPB8-(G)03	IPB14-(G)03	IPB3/16-N02	IPB3/8-N02
	IPB4-(G)03	IPB8-(G)04	IPB14-(G)04	IPB1/4-N01	IPB3/8-N03
	IPB6-M5	IPB10-(G)01	IPB15-(G)03	IPB1/4-N02	IPB3/8-N04
	IPB6-M6	IPB10-(G)02	IPB15-(G)04	IPB1/4-N03	IPB1/2-N01
	IPB6-(G)01	IPB10-(G)03	IPB16-(G)03	IPB1/4-N04	IPB1/2-N02
	IPB6-(G)02	IPB10-(G)04	IPB16-(G)04	IPB5/16-N01	IPB1/2-N03
	IPB6-(G)03	IPB12-(G)01		IPB5/16-N02	IPB1/2-N04

IPL-(G) Male Elbow

	Model (ΦD-T)				
	Tube Dia(mm) - Thread Size (R)/(G)		Tube Dia(inch) - Thread Size (NPT)		
	IPL4-M5	IPL6-(G)04	IPL12-(G)02	IPL5/32-N01	IPL5/16-N03
	IPL4-M6	IPL8-(G)01	IPL12-(G)03	IPL5/32-N02	IPL5/16-N04
	IPL4-(G)01	IPL8-(G)02	IPL12-(G)04	IPL3/16-N01	IPL3/8-N01
	IPL4-(G)02	IPL8-(G)03	IPL14-(G)03	IPL3/16-N02	IPL3/8-N02
	IPL4-03	IPL8-(G)04	IPL14-(G)04	IPL1/4-N01	IPL3/8-N03
	IPL6-M5	IPL10-(G)01	IPL15-(G)03	IPL1/4-N02	IPL3/8-N04
	IPL6-M6	IPL10-(G)02	IPL15-(G)04	IPL1/4-N03	IPL1/2-N01
	IPL6-(G)01	IPL10-(G)03	IPL16-(G)03	IPL1/4-N04	IPL1/2-N02
	IPL6-(G)02	IPL10-(G)04	IPL16-(G)04	IPL5/16-N01	IPL1/2-N03
	IPL6-(G)03	IPL12-(G)01		IPL5/16-N02	IPL1/2-N04

IPD-(G) Male Run Tee

	Model (ΦD-T)				
	Tube Dia(mm) - Thread Size (R)/(G)		Tube Dia(inch) - Thread Size (NPT)		
	IPD4-M5	IPD6-(G)04	IPD12-(G)02	IPD5/32-N01	IPD5/16-N03
	IPD4-M6	IPD8-(G)01	IPD12-(G)03	IPD5/32-N02	IPD5/16-N04
	IPD4-(G)01	IPD8-(G)02	IPD12-(G)04	IPD3/16-N01	IPD3/8-N01
	IPD4-(G)02	IPD8-(G)03	IPD14-(G)03	IPD3/16-N02	IPD3/8-N02
	IPD4-03	IPD8-(G)04	IPD14-(G)04	IPD1/4-N01	IPD3/8-N03
	IPD6-M5	IPD10-(G)01	IPD15-(G)03	IPD1/4-N02	IPD3/8-N04
	IPD6-M6	IPD10-(G)02	IPD15-(G)04	IPD1/4-N03	IPD1/2-N01
	IPD6-(G)01	IPD10-(G)03	IPD16-(G)03	IPD1/4-N04	IPD1/2-N02
	IPD6-(G)02	IPD10-(G)04	IPD16-(G)04	IPD5/16-N01	IPD1/2-N03
	IPD6-(G)03	IPD12-(G)01		IPD5/16-N02	IPD1/2-N04

IPX-(G) Male Branch Y

	Model (ΦD-T)				
	Tube Dia(mm) - Thread Size (R)/(G)		Tube Dia(inch) - Thread Size (NPT)		
	IPX4-M5	IPX6-(G)04	IPX12-(G)02	IPX5/32-N01	IPX5/16-N04
	IPX4-M6	IPX8-(G)01	IPX12-(G)03	IPX5/32-N02	IPX3/8-N01
	IPX4-(G)01	IPX8-(G)02	IPX12-(G)04	IPX3/16-N01	IPX3/8-N02
	IPX4-(G)02	IPX8-(G)03		IPX3/16-N02	IPX3/8-N03
	IPX4-(G)03	IPX8-(G)04		IPX1/4-N01	IPX3/8-N04
	IPX6-M5	IPX10-(G)01		IPX1/4-N02	IPX1/2-N01
	IPX6-M6	IPX10-(G)02		IPX1/4-N03	IPX1/2-N02
	IPX6-(G)01	IPX10-(G)03		IPX5/16-N01	IPX1/2-N03
	IPX6-(G)02	IPX10-(G)04		IPX5/16-N02	IPX1/2-N04
	IPX6-(G)03	IPX12-(G)01		IPX5/16-N03	

IPOC-(G) Inner Hex. Straight

	Model (ΦD-T)				
	Tube Dia(mm) - Thread Size (R)/(G)				
	IPOC4-M5	IPOC6-M6	IPOC8-(G)01	IPOC10-(G)02	IPOC12-(G)03
	IPOC4-M6	IPOC6-(G)01	IPOC8-(G)02	IPOC10-(G)03	IPOC12-(G)04
	IPOC4-(G)01	IPOC6-(G)02	IPOC8-(G)03	IPOC10-(G)04	
	IPOC4-(G)02	IPOC6-(G)03	IPOC8-(G)04	IPOC12-(G)01	
	IPOC6-M5	IPOC6-(G)04	IPOC10-(G)01	IPOC12-(G)02	

IPLN-(G) New Elbow

	Model (ΦD-T)				
	Tube Dia(mm) - Thread Size (R)/(G)				
	IPLN4-M5	IPLN6-M5	IPLN6-(G)04	IPLN10-(G)01	IPLN12-(G)02
	IPLN4-M6	IPLN6-M6	IPLN8-(G)01	IPLN10-(G)02	IPLN12-(G)03
	IPLN4-(G)01	IPLN6-(G)01	IPLN8-(G)02	IPLN10-(G)03	IPLN12-(G)04
	IPLN4-(G)02	IPLN6-(G)02	IPLN8-(G)03	IPLN10-(G)04	
	IPLN4-03	IPLN6-(G)03	IPLN8-(G)04	IPLN12-(G)01	

*Default without (G) for PT thread, e.g. IPC4-01 (G): G thread with O-ring fittings, e.g. IPC4-G01

*Blank: black body and blue button, e.g. IPC4-01 -A: gray body and gray button, e.g. IPC4-01-A

Push-in Fittings Quick Type for Pneumatic Tubing

IPY Union Y

Model (ΦD-T)			
Tube Dia(mm)		Tube Dia(inch)	
IPY4	IPW6-4	IPY5/32	IPW3/16-5/32
IPY6	IPW8-4	IPY3/16	IPW1/4-3/16
IPY8	IPW8-6	IPY1/4	IPW3/8-5/16
IPY10	IPW10-6	IPY5/16	IPW1/2-3/8
IPY12	IPW10-8	IPY3/8	
	IPW12-8	IPY1/2	
	IPW12-10		

IPE Union Tee

Model (ΦD-T)			
Tube Dia(mm)		Tube Dia(inch)	
IPE4	IPEG6-4-6	IPEW4-6-4	IPE5/32
IPE6	IPEG8-4-8	IPEW4-8-4	IPEG3/16-5/32-3/16
IPE8	IPEG8-6-8	IPEW6-8-6	IPE3/16
IPE10	IPEG10-6-10	IPEW6-10-6	IPEG1/4-3/16-1/4
IPE12	IPEG10-8-10	IPEW8-10-8	IPEG5/16-1/4-5/16
IPE14	IPEG12-8-12	IPEW8-12-8	IPEG3/8-5/16-3/8
IPE15	IPEG12-10-12	IPEW10-12-10	IPEG1/2-3/8-1/2
IPE16			

IPV Union Elbow

Model (ΦD-T)	
Tube Dia(mm)	Tube Dia(inch)
IPV4	IPV5/32
IPV6	IPV3/16
IPV8	IPV1/4
IPV10	IPV5/16
IPV12	IPV3/8
IPV14	IPV1/2
IPV15	
IPV16	

IPMF Female Bulkhead Straight

Model (ΦD-T)	
Tube Dia(mm)	Thread Size (R)
IPMF4-01	IPMF8-04
IPMF4-02	IPMF10-01
IPMF6-01	IPMF10-02
IPMF6-02	IPMF10-03
IPMF6-03	IPMF10-04
IPMF6-04	IPMF12-01
IPMF8-01	IPMF12-02
IPMF8-02	IPMF12-03
IPMF8-03	IPMF12-04

IPKD-(G) Male Triple Run Tee

Model (ΦD-T)	
Tube Dia(mm)	Thread Size (R)/(G)
IPKD4-M5	IPKD8-(G)01
IPKD4-(G)01	IPKD8-(G)02
IPKD4-(G)02	IPKD8-(G)03
IPKD4-03	IPKD8-(G)04
IPKD6-M5	IPKD10-(G)01
IPKD6-(G)01	IPKD10-(G)02
IPKD6-(G)02	IPKD10-(G)03
IPKD6-(G)03	IPKD10-(G)04
IPKD6-(G)04	

IPK Unequal Triple Tee

Model (ΦD-T)	
Tube Dia(mm)	Tube Dia(inch)
IPK4	IPKG3/16-5/32
IPK6	IPKG1/4-3/16
IPK8	IPKG5/16-1/4
IPK10	IPKG3/8-5/16
IPKG6-4	
IPKG8-4	
IPKG8-6	
IPKG10-6	
IPKG10-8	

IPXG Unequal Double Branch Y

Model (ΦD-T)	
Tube Dia(mm)	Tube Dia(inch)
IPXG6-4	
IPXG8	
IPXG8-4	
IPXG8-6	

IPLL-(G) Male Long Elbow

Model (ΦD-T)	
Tube Dia(mm)	Thread Size (R)/(G)
IPLL4-M5	IPLL8-(G)02
IPLL4-M6	IPLL8-(G)03
IPLL4-(G)01	IPLL8-(G)04
IPLL4-(G)02	IPLL10-(G)01
IPLL6-M5	IPLL10-(G)02
IPLL6-M6	IPLL10-(G)03
IPLL6-(G)01	IPLL10-(G)04
IPLL6-(G)02	IPLL12-(G)01
IPLL6-(G)03	IPLL12-(G)02
IPLL6-(G)04	IPLL12-(G)03
IPLL8-(G)01	IPLL12-(G)04

IPLF Female Elbow

Model (ΦD-T)	
Tube Dia(mm)	Thread Size (R)
IPLF4-M5	IPLF8-02
IPLF4-M6	IPLF8-03
IPLF4-01	IPLF8-04
IPLF4-02	IPLF10-01
IPLF6-M5	IPLF10-02
IPLF6-M6	IPLF10-03
IPLF6-01	IPLF10-04
IPLF6-02	IPLF12-01
IPLF6-03	IPLF12-02
IPLF6-04	IPLF12-03
IPLF8-01	IPLF12-04

IPXT-(G) Male Double Branch Y

Model (ΦD-T)	
Tube Dia(mm)	Thread Size (R)/(G)
IPXT4-(G)01	
IPXT4-(G)02	
IPXT6-(G)01	
IPXT6-(G)02	
IPXT6-(G)03	
IPXT6-(G)04	
IPXT8-(G)01	
IPXT8-(G)02	
IPXT8-(G)03	
IPXT8-(G)04	

IPU Union Straight

Model (ΦD-T)		
Tube Dia(mm)	Tube Dia(inch)	
IPU4	IPG6-4	IPU5/32
IPU6	IPG8-4	IPU3/16
IPU8	IPG8-6	IPU1/4
IPU10	IPG10-6	IPU5/16
IPU12	IPG10-8	IPU3/8
IPU14	IPG12-6	IPU1/2
IPU15	IPG12-8	IPG3/16-5/32
IPU16	IPG12-10	IPG1/4-3/16
		IPG5/16-1/4
		IPG3/8-5/16
		IPG1/2-3/8

IPM Bulkhead Union

Model (ΦD-T)	
Tube Dia(mm)	
IPM4	
IPM6	
IPM8	
IPM10	
IPM12	

IPZ Union Cross

Model (ΦD-T)	
Tube Dia(mm)	Tube Dia(inch)
IPZ4	IPZ5/32
IPZ6	IPZ1/4
IPZ8	IPZ5/16
IPZ10	IPZ3/8
IPZ12	

IPLM Bulkhead Union Elbow

Model (ΦD-T)	
Tube Dia(mm)	
IPLM4	
IPLM6	
IPLM8	
IPLM10	
IPLM12	

IPP Plug

Model (ΦD-T)	
Tube Dia(mm)	
IPP4	
IPP6	
IPP8	
IPP10	
IPP12	

IPPF Cap

Model (ΦD-T)	
Tube Dia(mm)	
IPPF4	
IPPF6	
IPPF8	
IPPF10	
IPPF12	

*Default without (G) for PT thread, e.g. IPKD4-01 (G): G thread with O-ring fittings, e.g. IPKD-G01 *Blank: black body and blue button, e.g. IPKD4-01 -A: gray body and gray button, e.g. IPKD4-01-A

Accessories

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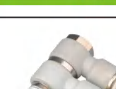
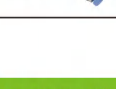
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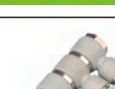
Accessories

Push-in Fittings Quick Type for Pneumatic Tubing

IPH-(G) Single Banjo

	Model (ΦD-T)			
	Tube Dia(mm) - Thread Size (R)/(G)	Tube Dia(mm) - Thread Size (R)/(G)	Tube Dia(inch) - Thread Size (NPT)	Tube Dia(inch) - Thread Size (NPT)
	IPH4-M5	IPH8-(G)03	IPH5/32-N01	IPH5/16-N04
	IPH4-(G)01	IPH8-(G)04	IPH3/16-N01	IPH3/8-N01
	IPH4-(G)02	IPH10-(G)01	IPH3/16-N02	IPH3/8-N02
	IPH6-M5	IPH10-(G)02	IPH1/4-N01	IPH3/8-N03
	IPH6-(G)01	IPH10-(G)03	IPH1/4-N02	IPH3/8-N04
	IPH6-(G)02	IPH10-(G)04	IPH1/4-N03	IPH1/2-N02
	IPH6-(G)03	IPH12-(G)02	IPH5/16-N01	IPH1/2-N03
	IPH8-(G)01	IPH12-(G)03	IPH5/16-N02	IPH1/2-N04
	IPH8-(G)02	IPH12-(G)04	IPH5/16-N03	

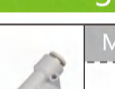
IPHF-(G) Link-up Banjo

	Model (ΦD-T)			
	Tube Dia(mm) - Thread Size (R)/(G)	Tube Dia(mm) - Thread Size (R)/(G)	Tube Dia(inch) - Thread Size (NPT)	Tube Dia(inch) - Thread Size (NPT)
	IPHF4-M5	IPHF8-(G)03	IPHF5/32-N01	IPHF3/8-N02
	IPHF4-(G)01	IPHF8-(G)04	IPHF3/16-N01	IPHF3/8-N03
	IPHF4-(G)02	IPHF10-(G)02	IPHF3/16-N02	IPHF3/8-N04
	IPHF6-M5	IPHF10-(G)03	IPHF1/4-N01	IPHF1/2-N02
	IPHF6-(G)01	IPHF10-(G)04	IPHF1/4-N02	IPHF1/2-N03
	IPHF6-(G)02	IPHF12-(G)02	IPHF5/16-N01	IPHF1/2-N04
	IPHF6-(G)03	IPHF12-(G)03	IPHF5/16-N02	
	IPHF8-(G)01	IPHF12-(G)04	IPHF5/16-N03	
	IPHF8-(G)02		IPHF5/16-N04	

IPHT(2)-(G) Double Link-up Banjo

	Model (ΦD-T)	
	Tube Dia(mm) - Thread Size (R)/(G)	Tube Dia(mm) - Thread Size (R)/(G)
	IPHT4-(G)01(2)	IPHT8-(G)04(2)
	IPHT4-(G)02(2)	IPHT10-(G)01(2)
	IPHT6-(G)01(2)	IPHT10-(G)02(2)
	IPHT6-(G)02(2)	IPHT10-(G)03(2)
	IPHT6-(G)03(2)	IPHT10-(G)04(2)
	IPHT8-(G)01(2)	IPHT12-(G)02(2)
	IPHT8-(G)02(2)	IPHT12-(G)03(2)
	IPHT8-(G)03(2)	IPHT12-(G)04(2)

IPHT(3)-(G) Triple Link-up Banjo

	Model (ΦD-T)	
	Tube Dia(mm) - Thread Size (R)/(G)	Tube Dia(mm) - Thread Size (R)/(G)
	IPHT4-(G)01(3)	IPHT4-(G)01(3)
	IPHT4-(G)02(3)	IPHT4-(G)02(3)
	IPHT6-(G)01(3)	IPHT6-(G)01(3)
	IPHT6-(G)02(3)	IPHT6-(G)02(3)
	IPHT6-(G)03(3)	IPHT6-(G)03(3)
	IPHT8-(G)01(3)	IPHT8-(G)01(3)
	IPHT8-(G)02(3)	IPHT8-(G)02(3)
	IPHT8-(G)03(3)	IPHT8-(G)03(3)

IPXJ Plug-in Double Y

Model (ΦD-T)	
Tube Dia(mm)	
IPXJ4-4	IPXJ10-4
IPXJ6-4	IPXJ10-6
IPXJ8-4	IPXJ10-8
IPXJ8-6	
IPXJ8-8	

IPGJ Plug-in Reducer

Model (ΦD-T)	
Tube Dia(mm)	
IPGJ6-4	IPGJ12-6
IPGJ8-4	IPGJ12-8
IPGJ8-6	IPGJ12-10
IPGJ10-6	
IPGJ10-8	

IPYJ Plug-in Y

Model (ΦD-T)	
Tube Dia(mm)	
IPYJ4	IPYJ6-4
IPYJ6	IPYJ8-6
IPYJ8	IPYJ10-8
IPYJ10	IPYJ12-10
IPYJ12	

IPDJ Plug-in Run Tee

Model (ΦD-T)	
Tube Dia(mm)	
IPDJ4	IPDJ6-4
IPDJ6	IPDJ8-6
IPDJ8	IPDJ10-8
IPDJ10	IPDJ12-10
IPDJ12	

IPBJ Plug-in Tee

Model (ΦD-T)	
Tube Dia(mm)	
IPBJ4	IPBJ6-4
IPBJ6	IPBJ8-6
IPBJ8	IPBJ10-8
IPBJ10	IPBJ12-10
IPBJ12	

IPLJ Plug-in Elbow

Model (ΦD-T)	
Tube Dia(mm)	
IPLJ4	IPLJ6-4
IPLJ6	IPLJ8-6
IPLJ8	IPLJ10-8
IPLJ10	IPLJ12-10
IPLJ12	

IPKJ Plug-in Triple

Model (ΦD-T)	
Tube Dia(mm)	
IPKJ4	IPKJ6-4
IPKJ6	IPKJ8-4
IPKJ8	IPKJ8-6
IPKJ10	IPKJ10-6
	IPKJ10-8

IPGT Double Banjo

Model (ΦD-T)	
Tube Dia(mm) - Thread Size (R)/(G)	
	IPGT4-(G)01
	IPGT6-(G)01
	IPGT6-(G)02
	IPGT8-(G)01
	IPGT8-(G)02
	IPGT10-(G)02

*Default without (G) for PT thread, e.g. IPC4-01 (G): G thread with O-ring fittings, e.g. IPC4-G01

*Blank: black body and blue button, e.g. IPC4-01 -A: gray body and gray button, e.g. IPH4-01-A

Speed Controller

Accessories

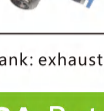
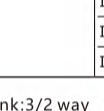
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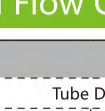
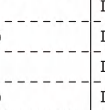
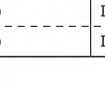
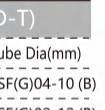
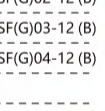
Accessories

ISL-(G) Male Elbow

	Model (ΦD-T)			
	Tube Dia(mm) - Thread Size (R)/(G)	Tube Dia(inch) - Thread Size (NPT)		
	ISL4-M5(B)	ISL08-(G)04(B)	ISL5/32-U10(B)	ISL5/16-N02(B)
	ISL4-(G)01(B)	ISL10-(G)01(B)	ISL5/32-N01(B)	ISL5/16-N03(B)
	ISL4-(G)02(B)	ISL10-(G)02(B)	ISL3/16-U10(B)	ISL5/16-N04(B)
	ISL6-M5(B)	ISL10-(G)03(B)	ISL3/16-N01(B)	ISL3/8-N01(B)
	ISL6-(G)01(B)	ISL10-(G)04(B)	ISL3/16-N02(B)	ISL3/8-N02(B)
	ISL6-(G)02(B)	ISL12-(G)01(B)	ISL1/4-U10(B)	ISL3/8-N03(B)
	ISL6-(G)03(B)	ISL12-(G)02(B)	ISL1/4-N01(B)	ISL3/8-N04(B)
	ISL6-(G)04(B)	ISL12-(G)03(B)	ISL1/4-N02(B)	ISL1/2-N02(B)
	ISL8-(G)01(B)	ISL12-(G)04(B)	ISL1/4-N03(B)	ISL1/2-N03(B)
	ISL8-(G)02(B)		ISL1/4-N04(B)	ISL1/2-N04(B)
	ISL8-(G)03(B)		ISL5/16-N01(B)	

*Blank: exhaust throttle B: intake throttle

ISS-(G) Rotatable Body

	Model (ΦD-T)		
	Tube Dia(mm) - Thread Size (R)/(G)	Tube Dia(inch)	
	ISS4-(G)01(B)	ISS1/4-N01(B)	
	ISS4-(G)02(B)	ISS1/4-N02(B)	
	ISS6-(G)01(B)	ISS5/16-N01(B)	
	ISS6-(G)02(B)	ISS5/16-N02(B)	
	ISS8-(G)01(B)	ISS3/8-N02(B)	
	ISS8-(G)02(B)	ISS3/8-N03(B)	
	ISS10-(G)02(B)	ISS1/2-N02(B)	
	ISS10-(G)03(B)	ISS1/2-N03(B)	
	ISS12-(G)02(B)		
	ISS12-(G)03(B)		

ISA Rotatable Body

	Model (ΦD-T)	
	Tube Dia(mm)	Tube Dia(inch)
	ISA4	ISA5/32
	ISA6	ISA3/16
	ISA8	ISA1/4
	ISA10	ISA5/16
	ISA12	ISA3/8
		ISA1/2

ISCA-(G) Slot-head Flow Controller

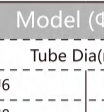
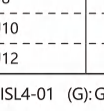
	Model (ΦD-T)		
	Tube Dia(mm) - Thread Size (R)/(G)		
	ISCA4-M5(B)	ISCA8-(G)01(B)	ISCA12-(G)01(B)
	ISCA4-(G)01(B)	ISCA8-(G)02(B)	ISCA12-(G)02(B)
	ISCA6-M5(B)	ISCA8-(G)03(B)	ISCA12-(G)03(B)
	ISCA6-(G)01(B)	ISCA10-(G)01(B)	
	ISCA6-(G)02(B)	ISCA10-(G)02(B)	
	ISCA6-(G)03(B)	ISCA10-(G)03(B)	

Manual Valve

IHVFF Tube type

	Model (ΦD-T)
	Tube Dia(mm) - Thread Size (R)/(G)
	IHVFF6-6(B)
	IHVFF8-6(B)
	IHVFF8-8(B)
	IHVFF10-8(B)
	IHVFF10-10(B)
	IHVFF12-10(B)
	IHVFF12-12(B)

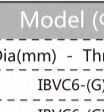
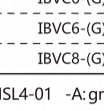
IHVSS-(G) Thread type

	Model (ΦD-T)
	Tube Dia(mm) - Thread Size (R)/(G)
	IHVSS01-(G)01(B)
	IHVSS02-(G)01(B)
	IHVSS02-(G)02(B)
	IHVSS03-(G)02(B)
	IHVSS03-(G)03(B)
	IHVSS04-(G)03(B)
	IHVSS04-(G)04(B)

IHVSF-(G) From thread to tube end

	Model (ΦD-T)	
	Thread Size (R)/(G) - Tube Dia(mm)	
	IHVSF(G)01-6(B)	IHVSF(G)04-10 (B)
	IHVSF(G)02-6(B)	IHVSF(G)02-12 (B)
	IHVSF(G)03-6(B)	IHVSF(G)03-12 (B)
	IHVSF(G)01-8(B)	IHVSF(G)04-12 (B)
	IHVSF(G)02-8(B)	
	IHVSF(G)03-8(B)	
	IHVSF(G)02-10(B)	
	IHVSF(G)03-10(B)	

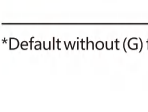
IHVFS-(G) From tube to thread end

	Model (ΦD-T)	
	Tube Dia(mm) - Thread Size (R)/(G)	
	IHVFS6-(G)01(B)	IHVFS10-(G)04(B)
	IHVFS6-(G)02(B)	IHVFS12-(G)02(B)
	IHVFS6-(G)03(B)	IHVFS12-(G)03(B)
	IHVFS8-(G)01(B)	IHVFS12-(G)04(B)
	IHVFS8-(G)02(B)	
	IHVFS8-(G)03(B)	
	IHVFS10-(G)02(B)	
	IHVFS10-(G)03(B)	

Blank:3/2 way B:2/2 way

Ball Valve

IBVU Ball Valve

	Model (ΦD-T)	
	Tube Dia(mm)	
	IBVU6	IBVU8-06
	IBVU8	IBVU12-10
	IBVU10	
	IBVU12	

IBVC-(G) Ball Valve

	Model (ΦD-T)		
	Tube Dia(mm) - Thread Size (R)/(G)		
	IBVC8-(G)02	IBVC6-(G)01	IBVC6-(G)01
	IBVC8-(G)03	IBVC6-(G)02	IBVC6-(G)02
	IBVC10-(G)02	IBVC6-(G)03	IBVC6-(G)03
	IBVC10-(G)03	IBVC8-(G)01	IBVC8-(G)01

*Default without (G) for PT thread, e.g. ISL4-01 (G): G thread with O-ring fittings, e.g. ISL4-G01 *Blank: black body and blue button, e.g. ISL4-01 -A: gray body and gray button, e.g. ISL4-01-A

Brass Push-In Tube Fitting & Nut Lock Tube Fitting

IPCT-(G) Male Straight

Model (ΦD-T)	
Tube Dia(mm) - Thread Size (R)/(G)	
IPCT4-M5	IPCT8-(G)03
IPCT4-(G)01	IPCT8-(G)04
IPCT4-(G)02	IPCT10-(G)01
IPCT6-M5	IPCT10-(G)02
IPCT6-(G)01	IPCT10-(G)03
IPCT6-(G)02	IPCT10-(G)04
IPCT6-(G)03	IPCT12-(G)02
IPCT6-(G)04	IPCT12-(G)03
IPCT8-(G)01	IPCT12-(G)04
IPCT8-(G)02	

IPBT-(G) Male Branch Tee

Model (ΦD-T)	
Tube Dia(mm) - Thread Size (R)/(G)	
IPBT4-M5	IPBT8-(G)03
IPBT4-(G)01	IPBT8-(G)04
IPBT4-(G)02	IPBT10-(G)01
IPBT6-M5	IPBT10-(G)02
IPBT6-(G)01	IPBT10-(G)03
IPBT6-(G)02	IPBT10-(G)04
IPBT6-(G)03	IPBT12-(G)02
IPBT6-(G)04	IPBT12-(G)03
IPBT8-(G)01	IPBT12-(G)04
IPBT8-(G)02	

IPCFT-(G) Female Straight

Model (ΦD-T)	
Tube Dia(mm) - Thread Size (R)/(G)	
IPCFT4-M5	IPCFT8-(G)03
IPCFT4-(G)01	IPCFT8-(G)04
IPCFT4-(G)02	IPCFT10-(G)01
IPCFT6-M5	IPCFT10-(G)02
IPCFT6-(G)01	IPCFT10-(G)03
IPCFT6-(G)02	IPCFT10-(G)04
IPCFT6-(G)03	IPCFT12-(G)02
IPCFT6-(G)04	IPCFT12-(G)03
IPCFT8-(G)01	IPCFT12-(G)04
IPCFT8-(G)02	

IPDT-(G) Male Run Tee

Model (ΦD-T)	
Tube Dia(mm) - Thread Size (R)/(G)	
IPDT4-M5	IPDT8-(G)03
IPDT4-(G)01	IPDT8-(G)04
IPDT4-(G)02	IPDT10-(G)01
IPDT6-M5	IPDT10-(G)02
IPDT6-(G)01	IPDT10-(G)03
IPDT6-(G)02	IPDT10-(G)04
IPDT6-(G)03	IPDT12-(G)02
IPDT6-(G)04	IPDT12-(G)03
IPDT8-(G)01	IPDT12-(G)04
IPDT8-(G)02	

IPLT-(G) Male Elbow

Model (ΦD-T)	
Tube Dia(mm) - Thread Size (R)/(G)	
IPLT4-M5	IPLT8-(G)03
IPLT4-(G)01	IPLT8-(G)04
IPLT4-(G)02	IPLT10-(G)01
IPLT6-M5	IPLT10-(G)02
IPLT6-(G)01	IPLT10-(G)03
IPLT6-(G)02	IPLT10-(G)04
IPLT6-(G)03	IPLT12-(G)02
IPLT6-(G)04	IPLT12-(G)03
IPLT8-(G)01	IPLT12-(G)04
IPLT8-(G)02	

IPMFT Bulkhead Female Straight

Model (ΦD-T)	
Tube Dia(mm) - Thread Size (R)	
IPMFT4-01	IPMFT10-02
IPMFT4-02	IPMFT10-03
IPMFT6-01	IPMFT10-04
IPMFT6-02	IPMFT12-02
IPMFT6-03	IPMFT12-03
IPMFT8-01	IPMFT12-04
IPMFT8-02	
IPMFT8-03	
IPMFT8-04	
IPMFT10-01	

IPUT Union Straight

Model (ΦD-T)	
Tube Dia(mm)	
IPUT4	IPUT8-6
IPUT6	IPUT10-8
IPUT8	
IPUT10	
IPUT12	

IPVT Union Elbow

Model (ΦD-T)	
Tube Dia(mm)	
IPVT4	
IPVT6	
IPVT8	
IPVT10	
IPVT12	

IPET Union Tee

Model (ΦD-T)	
Tube Dia(mm)	
IPET4	
IPET6	
IPET8	
IPET10	
IPET12	

IPGJT Plug-in Reducer

Model (ΦD-T)	
Tube Dia(mm)	
IPGJT6-4	
IPGJT8-6	
IPGJT10-8	
IPGJT12-10	

IPZT Union Cross

Model (ΦD-T)	
Tube Dia(mm)	
IPZT4	
IPZT6	
IPZT8	
IPZT10	
IPZT12	

IPMT Bulkhead Union

Model (ΦD-T)	
Tube Dia(mm)	
IPMT4	
IPMT6	
IPMT8	
IPMT10	
IPMT12	

IPKT Union Triple Tee

Model (ΦD-T)	
Tube Dia(mm)	
IPKT4	
IPKT6	
IPKT8	
IPKT10	
IPKT12	

IBA Female Screw Union

Model	
IBA-01	
IBA-02	
IBA-03	
IBA-04	
IBA-02-01	
IBA-03-02	

IBD Bush

Model	
IBD01-02	
IBD01-03	
IBD01-04	
IBD02-03	
IBD02-04	
IBD03-04	

IPHT-(G) Single Banjo

Model (ΦD-T)	
Tube Dia(mm) - Thread Size (R)/(G)	
IPHT4-M5	IPHT6-(G)02
IPHT4-(G)01	IPHT8-(G)01
IPHT4-(G)02	IPHT8-(G)02
IPHT6-M5	IPHT8-(G)03
IPHT6-(G)01	IPHT10-(G)03

* Default without (G) for PT thread, e.g. IPCT4-01 (G): G thread with O-ring fittings, e.g. IPCT4-G01

Brass Push-In Tube Fitting & Nut Lock Tube Fitting

Accessories

HAC/ HAD

HR

HAC/D A.

Accessories

ISLT-(G) Flow Controller

	Model (ΦD-T)				
	Tube Dia(mm) - Thread Size (R)/(G)				
	ISLT4-M5	ISLT4-(G)02	ISLT6-(G)01	ISLT8-(G)01	ISLT8-(G)03
	ISLT4-(G)01	ISLT6-M5	ISLT6-(G)02	ISLT8-(G)02	ISLT10-(G)03

IBP-(G) Plug

	Model	
	IBP-(G)01	IBP-(G)04
	IBP-(G)02	
	IBP-(G)03	

IBZ Plug

	Model	
	IBZ-01	IBZ-04
	IBZ-02	
	IBZ-03	

IBB Union Stem

	Model	
	IBB01-01	IBB02-04
	IBB01-02	IBB03-03
	IBB01-03	IBB03-04
	IBB02-02	IBB04-04
	IBB02-03	

IBC Male Straight

	Model		
	IBC4-01	IBC8-01	IBC10-04
	IBC4-02	IBC8-02	IBC12-02
	IBC6-01	IBC8-03	IBC12-03
	IBC6-02	IBC10-02	IBC12-04
	IBC6-03	IBC10-03	

IBU Union Straight

	Model
	IBU-4
	IBU-6
	IBU-8
	IBU-10
	IBU-12

IBE Union Tee

	Model
	IBE-4
	IBE-6
	IBE-8
	IBE-10
	IBE-12

*空白:滚花螺母 S:六角螺母

IBV Union Elbow

	Model
	IBV-4
	IBV-6
	IBV-8
	IBV-10
	IBV-12

IBT Branch Tee

	Model	
	IBT4-01	IBT10-02
	IBT6-01	IBT10-03
	IBT6-02	IBT10-04
	IBT8-01	IBT12-02
	IBT8-02	IBT12-03
	IBT8-03	IBT12-04

IBF Female Straight

	Model	
	IBF4-01	IBF10-02
	IBF6-01	IBF10-03
	IBF6-02	IBF10-04
	IBF8-01	IBF12-02
	IBF8-02	IBF12-03
	IBF8-03	IBF12-04

IBL Male Elbow

	Model	
	IBF4-01	IBF10-02
	IBF6-01	IBF10-03
	IBF6-02	IBF10-04
	IBF8-01	IBF12-02
	IBF8-02	IBF12-03
	IBF8-03	IBF12-04

IKC Male Straight

	Model		
	IKC4-01	IKC8-01	IKC10-03
	IKC4-02	IKC8-02	IKC10-04
	IKC6-01	IKC8-03	IKC12-02
	IKC6-02	IKC8-04	IKC12-03
	IKC6-03	IKC10-02	IKC12-04

IKL Male Union Elbow

	Model		
	IKL4-01	IKL8-01	IKL10-03
	IKL4-02	IKL8-02	IKL10-04
	IKL6-01	IKL8-03	IKL12-02
	IKL6-02	IKL8-04	IKL12-03
	IKL6-03	IKL10-02	IKL12-04

IKLF Female Elbow

	Model		
	IKLF4-01	IKLF4-01	IKLF10-04
	IKLF6-01	IKLF6-01	IKLF12-02
	IKLF6-02	IKLF6-02	IKLF12-03
	IKLF6-03	IKLF6-03	IKLF12-04
	IKLF8-01	IKLF8-01	

IKF Female Straight

	Model		
	IKF4-01	IKF8-01	IKF10-03
	IKF4-02	IKF8-02	IKF10-04
	IKF6-01	IKF8-03	IKF12-02
	IKF6-02	IKF8-04	IKF12-03
	IKF6-03	IKF10-02	IKF12-04

IKT Male Branch Tee

	Model		
	IKT4-01	IKT8-01	IKT10-03
	IKT4-02	IKT8-02	IKT10-04
	IKT6-01	IKT8-03	IKT12-02
	IKT6-02	IKT8-04	IKT12-03
	IKT6-03	IKT10-02	IKT12-04

IKST Male Run Tee

	Model		
	IKST4-01	IKST8-01	IKST10-04
	IKST4-02	IKST8-02	IKST12-02
	IKST6-01	IKST8-03	IKST12-03
	IKST6-02	IKST8-04	IKST12-04
	IKST6-03	IKST10-02	

IKU Union Straight

	Model	
	IKU-4	IKU-10
	IKU-6	IKU-12
	IKU-8	

IKV Union Elbow

	Model	
	IKV-4	IKV-10
	IKV-6	IKV-12
	IKV-8	

IKE Union Tee

	Model	
	IKE-4	IKE-10
	IKE-6	IKE-12
	IKE-8	

*Default without (G) for PT thread, e.g. IBC4-01 (G): G thread with O-ring fittings, e.g. IBC4-G01

Pneumatic Accessories



Accessories

HAC/ HAD

HR

HAC/D A.

Accessories

Metal Push-In Tube Fitting

CN	Model	CM	Model	HN	Model	HM	Model
	CN8×5 CN10×6.5 CN12×8		CM02 CM03 CM04		HN8×5 HN10×6.5 HN12×8		HM02 HM03 HM04
CH	Model	CF	Model	HH	Model	HF	Model
	CH8×5 CH10×6.5 CH12×8		CF02 CF03 CF04		HH8×5 HH10×6.5 HH12×8		HF02 HF03 HF04

Silencer

Silencer	Model	Flow Control Silencer	Model	Miniature Silencer	Model	Plastic Silencer	Model
	BSL-M5 BSL-01 BSL-02 BSL-03 BSL-04 BSL-06		BESL-01 BESL-02 BESL-03 BESL-04 BESL-06 BESL-10		BSLM-01 BSLM-02 BSLM-03 BSLM-04 BSLM-06 BSLM-10		PSL-01 PSL-02 PSL-03 PSL-04 PAL-01 PAL-02 PAL-03 PAL-04

PU/Nylon/PA Tubes

PU Spiral Fitting



Code	EUC8-2	EUC8-4	EUC8-6	EUC8-8
External	8	8	8	8
Length	2	4	6	8
Code	EUC10-2	EUC10-4	EUC10-6	EUC10-8
External	10	10	10	10
Length	2	4	6	8

Nylon / Polyurethane / PU Tube



Code	0320	0425	0640	0850	0860	1065
External	Φ 3.0	Φ 4.0	Φ 6.0	Φ 8.0	Φ 8.0	Φ 10.0
Bore	Φ 2.0	Φ 2.5	Φ 4.0	Φ 5.0	Φ 6.0	Φ 6.5
Code	1070	1280	1290	1611	1613	
External	Φ 10.0	Φ 12.0	Φ 12.0	Φ 16.0	Φ 16.0	
Bore	Φ 7.0	Φ 8.0	Φ 9.0	Φ 11.0	Φ 13.0	

Thread Name	Thread Code	Thread Type	Thread angle (α)	Matching type	Standard	Standard code	Standard organization
Inch non-threaded seal	Parallel pipe threads	G	55°	Column/Column coordination	ISO 228-1 2003	ISO	ISO International standard organization
		BSPP			GB/T 7307 2001	GB	SAC China national standardization administration
		PF			BS 228-1 2003	BS	BSI British Standard Institute
					JIS B 0202	JIS	JISC Japan industry standards
					KS B 0221	KS	KATS Korea technical standards agency
Inch threaded seal	Taper pipe thread	Rp	55°	Column/Cone coordination	ISO 7-1	ISO	ISO International standard organization
		Rc		Cone/Cone coordination	GB/T 7306-1987	GB	SAC China national standardization administration
		R			BS 21 1985	BS	BSI British Standard Institute
		BSPT			JIS B 0203	JIS	JISC Japan industry standards
		PT			KS B 0222	KS	KATS Korea technical standards agency
American general seal pipe thread	Parallel internal pipe thread	NPSC	60°	Column/Cone coordination	ANSI B1.20.1-1983	ANSI	ANSI American national standards institute
					GB/T 12716-2002M	GB	SAC China national standardization administration
	Taper screw thread	NPT		Cone/Cone coordination	ANSI B1.20.1-1983	ANSI	ANSI American national standards institute
					GB/T 12716-2002M	GB	SAC China national standardization administration
Metric plain thread	M	Male thread Female thread	60°	Column/Column coordination	ISO 261-1998	ISO	ISO International standard organization
					GB/T 1193-2003	GB	SAC China national standardization administration

Product Related Standards

ISO-International standard organization: ISO 6432 ISO 6430 ISO 15552
 VDMA-German mechanical engineering association: VDMA 24562
 DIN-German standardization institute: DIN 24335 DIN 648 DIN71751
 CETOP-European hydraulic and pneumatics commission: CETOP RP52P