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Air Source Treatment Control Components Auxiliary Components Executive Components Accessories

Product Selection Guide
百灵气动科技有限公司



BLCH
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BLCH
百灵气动
TECHNOLOGY CREATS VALUE





NEVER GIVE UP

不忘初心 ● 方得始终

BLCH Pneumatic Science and Technology Co. Ltd was founded in August 2004, it is located in the YUEQING economic development industrial zone. The company covers an area of 24000M², having 5 production bases with more than 300 employees. It's a non-regional enterprise specializing in R&D, production, sales and service maintenance of pneumatic components.

We now provide five series pneumatic products, such as air source treatment, pneumatic fittings, cylinders, solenoid valves, PU tubes and air guns, nearly 100 models and thousands items to worldwide. We have passed ISO 9001:2015 certification, ISO 14001:2015 environmental management system certification and CE mark of EU. Also we are National High-tech Enterprise, National Standards developing organization.

We always take "High Quality" as the most important thing, the key parts are all produced by automatic processing, which effectively guarantees the stable quality of the materials.

We take long time in long-life testing and insist that every single product should be checked and tested before delivery. Meanwhile, "After Service" is our commitment, because we know that the clients will fully understand our responsible attitude and create more and more win-win situation.

In pasted years, we have exported to more than 50 countries and get lots of good feedback. In the future, we expect that we can cooperate with more and more clients and have the chance to be a leading company in the world. We are growing together with you.

● **200+**
Employees

● **40+**
R&d technicians

● **50+**
Exported countries

● **50+**
Various patents

● **120Million +**
Annual output value

● **100+**
Products series



BLCH
百家气动

HONOR & CERTIFICATES



National high-tech enterprise
National industry standard developing organization
Zhejiang province high-tech R&D center

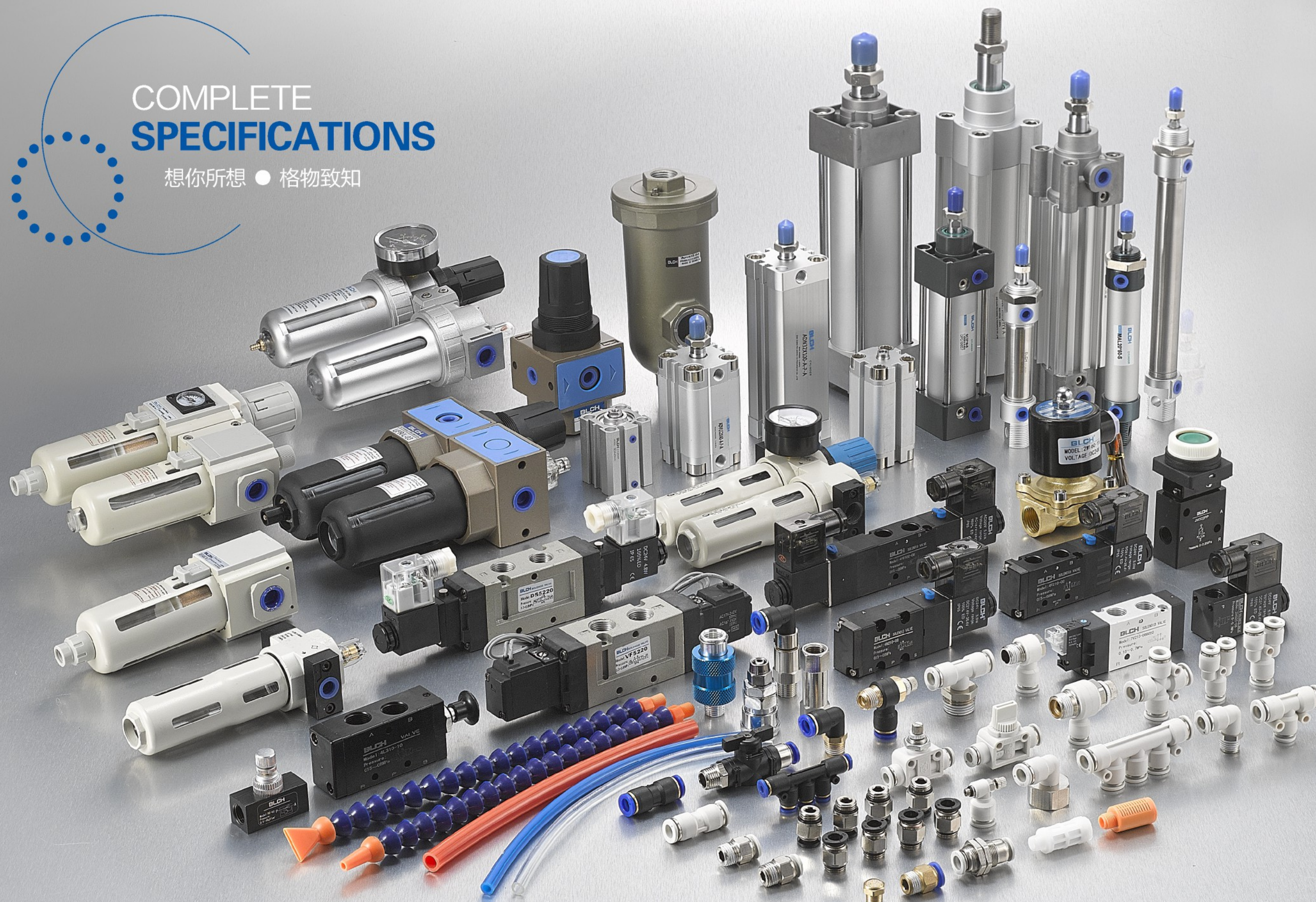


Quality embodies our dignity, outstanding quality refuses mediocrity. Meticulous, a thousand trials. Standardized management systems and systematic quality control systems allow blch's products to flow through every corner of the world.



COMPLETE SPECIFICATIONS

想你所想 ● 格物致知



BLCH

百灵气动

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Air Source Treatment



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- 124 CQ2 Series Compact Cylinder
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- 130 MAL Series Aluminum Mini Cylinder
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- 137 DSN series round cylinder
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- 150 MHY2 Series Style Air Gripper
- 152 MHC2 Series Style Air Gripper
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- 155 AC Series Shock Absorber
- 156 ACD Series Shock Absorber
- 157 RBC Series Short Shock Absorber
- 158 AD Series Shock Absorber
- 159 SR Series Adjustable Hydraulic Stabilizer

Auxiliary Components



- 97 PC Straight Male Thread
- 97 PCF Straight Female Thread
- 98 PL Elbow Male Thread
- 98 PLF Elbow Female Thread
- 99 PLL Elbow Longer Male Thread
- 99 PH External Hex Joint
- 99 PHF Joints in Series
- 100 PB T-Shape Vertical Male Thread
- 100 PD T-Shape side Male Thread
- 101 PX Y-Shape Three-Way Thread
- 101 PK Five-Way
- 101 PKG Reduced Five-Way
- 102 PM Bulkhead Union
- 102 PY Y-Shape Three-Way
- 102 PU Straight Union
- 102 PV Elbow Two-Way
- 102 PUG Reduced Straight Union
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- 103 PEG T-Shape Reduced Three-Way
- 103 SL Speed controller
- 103 LSA Pipe Speed controller
- 103 PKB Side Male Thread Five-Way
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- 104 BUC series Hand Valves
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- 109 Oil Pipe
- 110 PU Tube
- 110 Spiral Tube
- 110 Air Gun
- 111 C Type Quick Coupler
- 112 Self-locked C Type Quick Coupler

Accessories

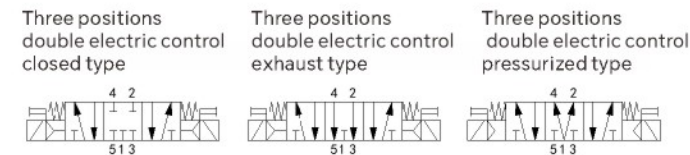
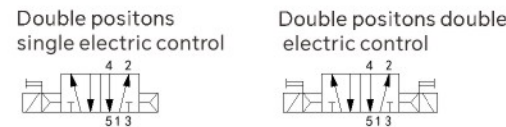


- 160 Air Combination Accessories
- 161 Cylinder Accessories
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BSY5000 series Solenoid Valve



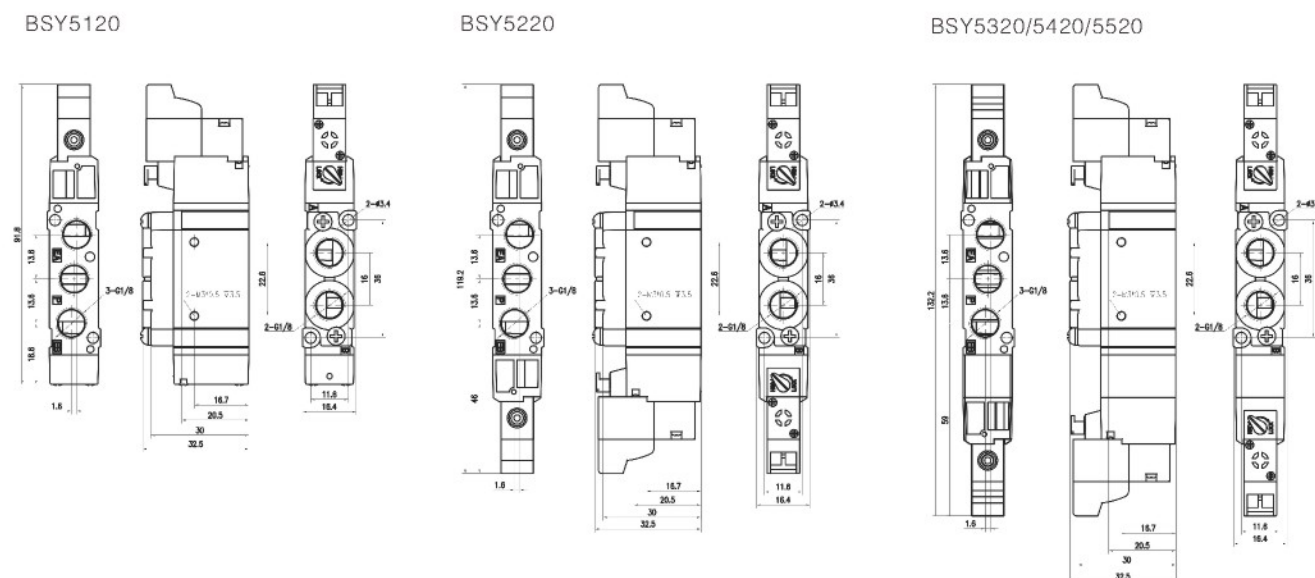
Symbol



Technical Specification

Model	CvValue (P-A/B)	Cv Value (A/B-R/S)	Port Size	Pressure Range	Working Medium	Action Mode	Max. Operating Frequency HZ	Response Time (ms/05 MPa Time)	Lubrication	Working Temperature				
5/2 way single electric control	0.67	0.69	G1/8"	0.15~0.7MPa	Compressed Air	Internal Pilot Type	8 times second	19 Below	No need	-5~60℃ (Not Frozen)				
5/2 way double electric control				0.15~0.7MPa										
5/3 way double electric control closed type	0.52	0.49		0.15~0.7MPa			5 times second				32 Below			
5/3 way double electric control exhaust type	0.46	0.75												
5/3 way double electric control pressurized type	0.89	0.50												

Dimension(mm)



ITV1000 2000 3000 Series

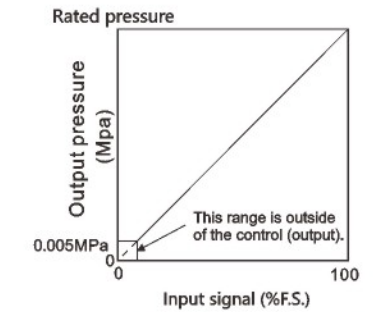
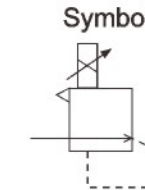
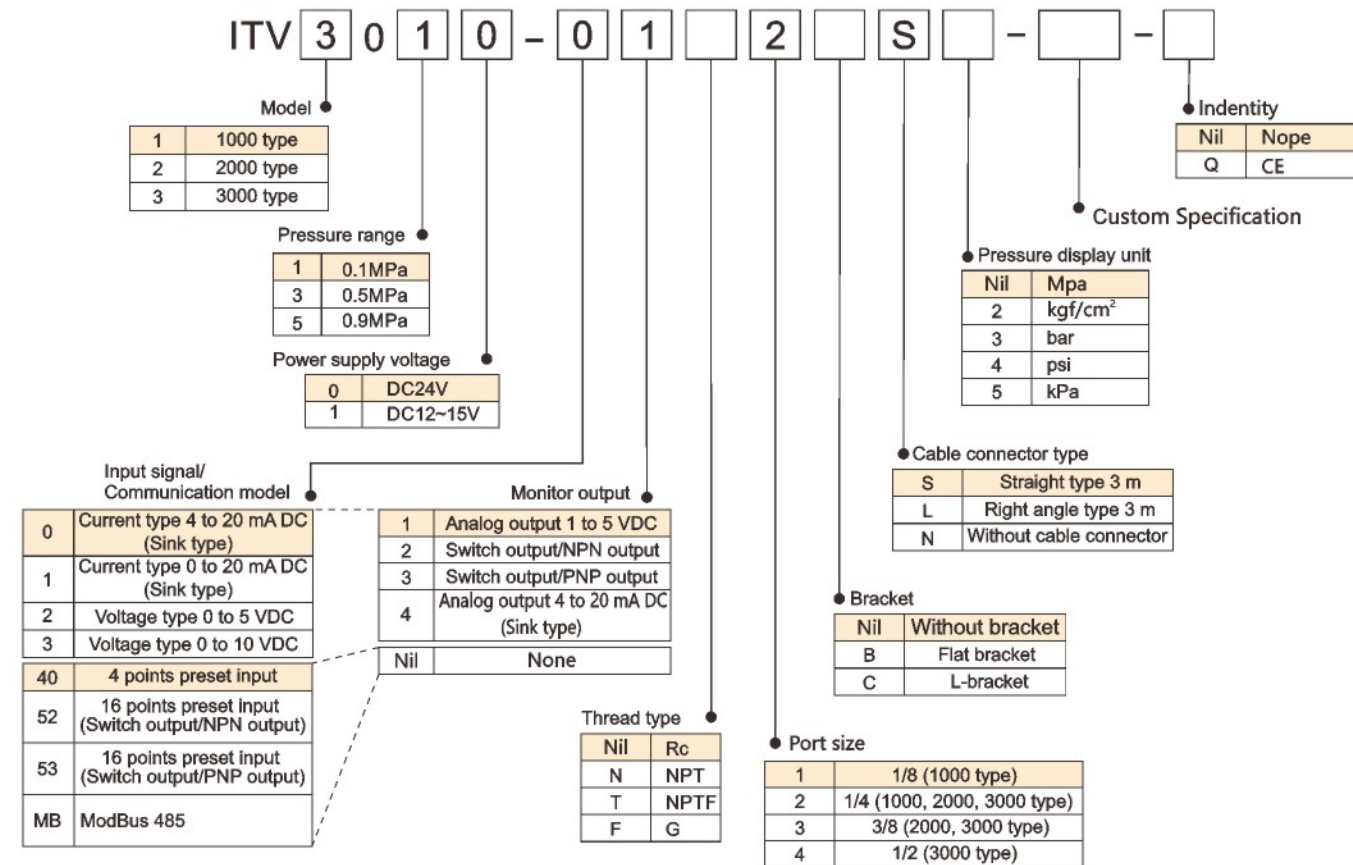


Figure 1. Input/output characteristics chart

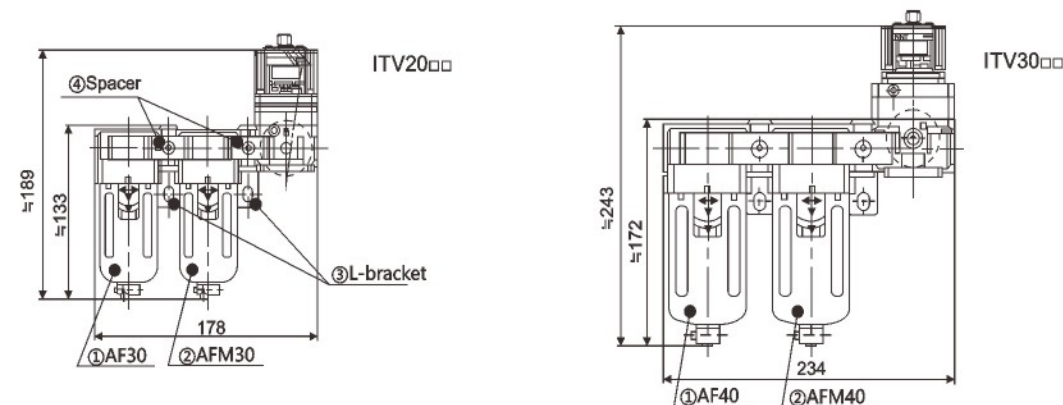
Model		ITV101□ ^{Note8)}	ITV103□ ^{Note8)}	ITV105□ ^{Note8)}
		ITV201□	ITV203□	ITV205□
		ITV301□	ITV303□	ITV305□
Minimum supply pressure		Set pressure +0.1 MPa		
Maximum supply pressure		0.2MPa	1.0MPa	
Set pressure range ^{Note 1)}		0.005 to 0.1 MPa	0.005 to 0.5 MPa	0.005 to 0.9 MPa
Power supply	Voltage	24 VDC ± 10%, 12 to 15 VDC		
	Current consumption	Power supply voltage 24 VDC type: 0.12 A or less ^{Note 9)} Power supply voltage 12 to 15 VDC type: 0.18 A or less		
Input signa ^{Note 9)}	Current type ^{Note 2)}	4 to 20 mA DC, 0 to 20 mA DC (Sink type)		
	Voltage type	0 to 5 VDC, 0 to 10 VDC		
	Preset input	4 points (Negative common), 16 points (No common polarity)		
Input impedance	Current type	250 Ω or less ^{Note 9)}		
	Voltage type	Approx. 6.5 KΩ		
	Digital input	Power supply voltage 24 VDC type: Approx. 4.7 KΩ Power supply voltage 12 VDC type: Approx. 2.0 KΩ		
Output signal output (monitor output)	Analog out	1 to 5 VDC (Output impedance: Approx. 1 kΩ) 4 to 20 mA DC (Sink type) (Output impedance: 250 Ω or less) Output accuracy ± 6% F.S. or less		
	Switch out	NPN open collector output: Max. 30 V, 80 mA PNP open collector output: Max. 80 mA		
Linearity		± 1% F.S. or less		
Hysteresis		0.5% F.S. or less		
Repeatability		± 0.5% F.S. or less		
Sensitivity		0.2% F.S. or less		
Temperature characteristics		± 0.12% F.S./°C or less		
Output pressure display ^{Note 4)}	Accuracy	± 2% F.S. ± 1 digit or less		
	Minimum unit	Mpa: 0.001, kgf/cm2: 0.01, bar: 0.01, psi: 0.1 ^{Note 5)} , kPa: 1		
Ambient and fluid temperature		0 to 50°C (No condensation)		
Enclosure		Ip65		
Weight Note 10)	ITV10□□	Approx. 250 g (without options)		
	ITV20□□	Approx. 350 g (without options)		
	ITV30□□	Approx. 645 g (without options)		

- Note 1) Please refer to Figure 1 for the relationship between set pressure and input. Because the maximum set pressure differs for each pressure display, refer to page 945.
- Note 2) 2-wire type 4 to 20 mA DC is not available. Power supply voltage (24 VDC or 12 to 15 VDC) is required.
- Note 3) Select either analog output or switch output. Further, when switch output is selected, select either NPN output or PNP output. When measuring NITV analog output from 1 to 5 VDC, if the load impedance is less than 100 kΩ, the analog output monitor accuracy of within ±6% (full span) may not be available. The product with the accuracy of within ±6% is supplied upon your request. Output pressure remains unaffected.
- Note 4) Adjustment of numerical values such as the zero/span adjustment or preset input type is set based on the minimum units for output pressure display (e.g. 0.001 to 0.500 MPa). Note that the unit cannot be changed.
- Note 5) The minimum unit for 0.9 MPa (130 psi) types is 1 psi.
- Note 6) Value for the state with no over current circuit included. If an allowance is provided for an over current circuit, the input impedance varies depending on the input current. This is 350 Ω or less for an input current of 20 mA DC.
- Note 7) The above characteristics are confined to the static state. When air is consumed on the output side, the pressure may fluctuate.
- Note 8) The NITV1000 series is a Grease-free specification (Wetted parts).

Order Code



Modular Products and Accessory Combinations



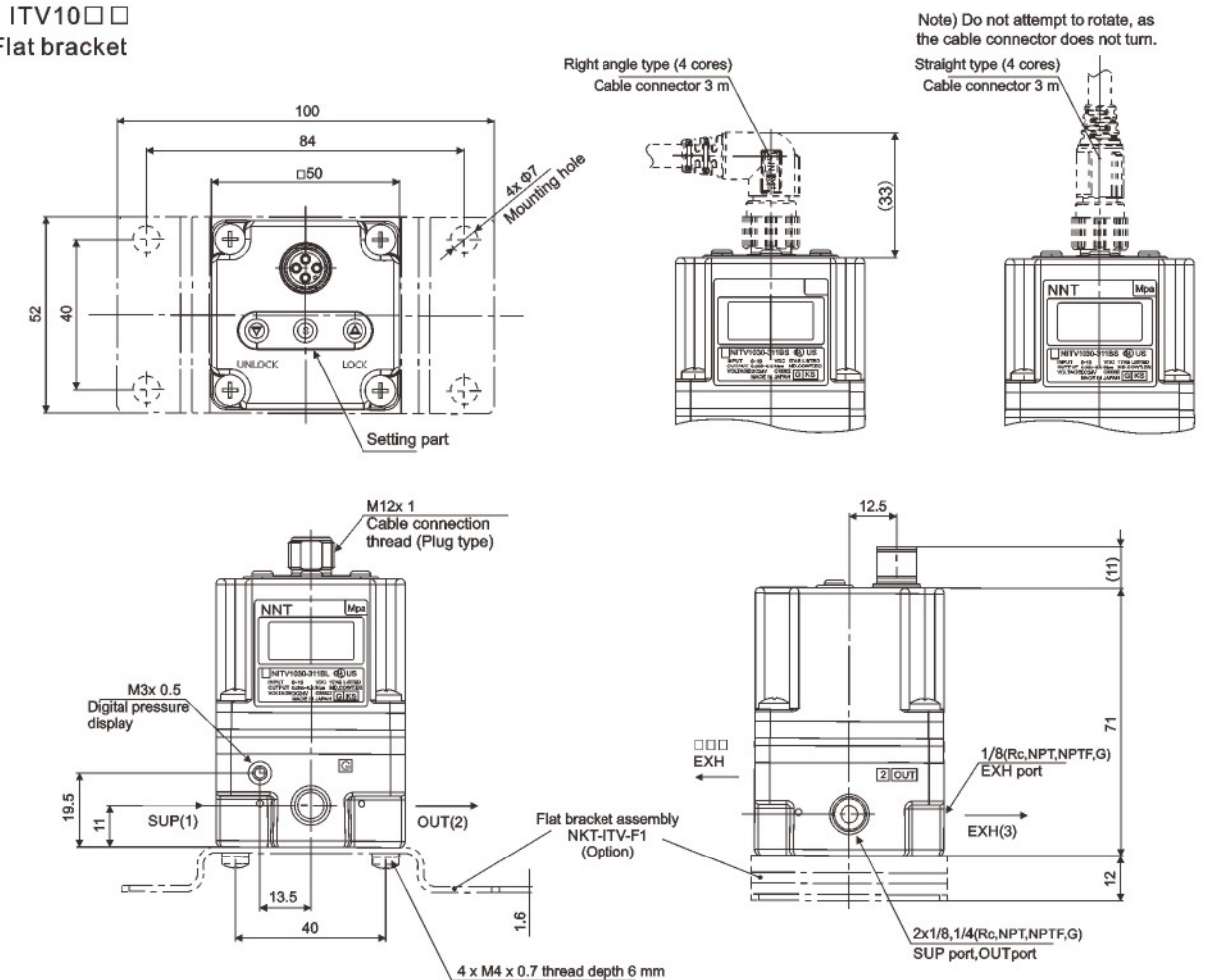
Modular Products and Accessory Combinations

For ITV10□□, use a modular adapter

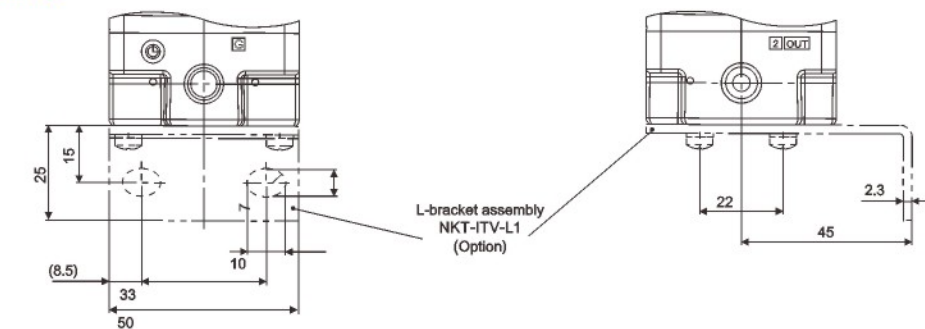
Applicable products and accessories	Applicable model	
	ITV20□□	ITV30□□
①Air filter	AF30	AF40
②Mist separator	AFM30	AFM40
③L-bracket	B310L	B410L
④Spacer	Y30	Y40
⑤Spacer with L-bracket (③+④)	Y30L	Y40L
⑥Spacer with T-bracket	-	Y40T

Dimensions

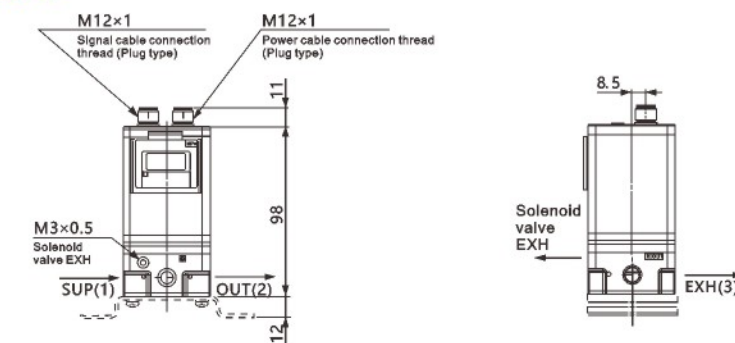
ITV10□□
Flat bracket



L-bracket assembly

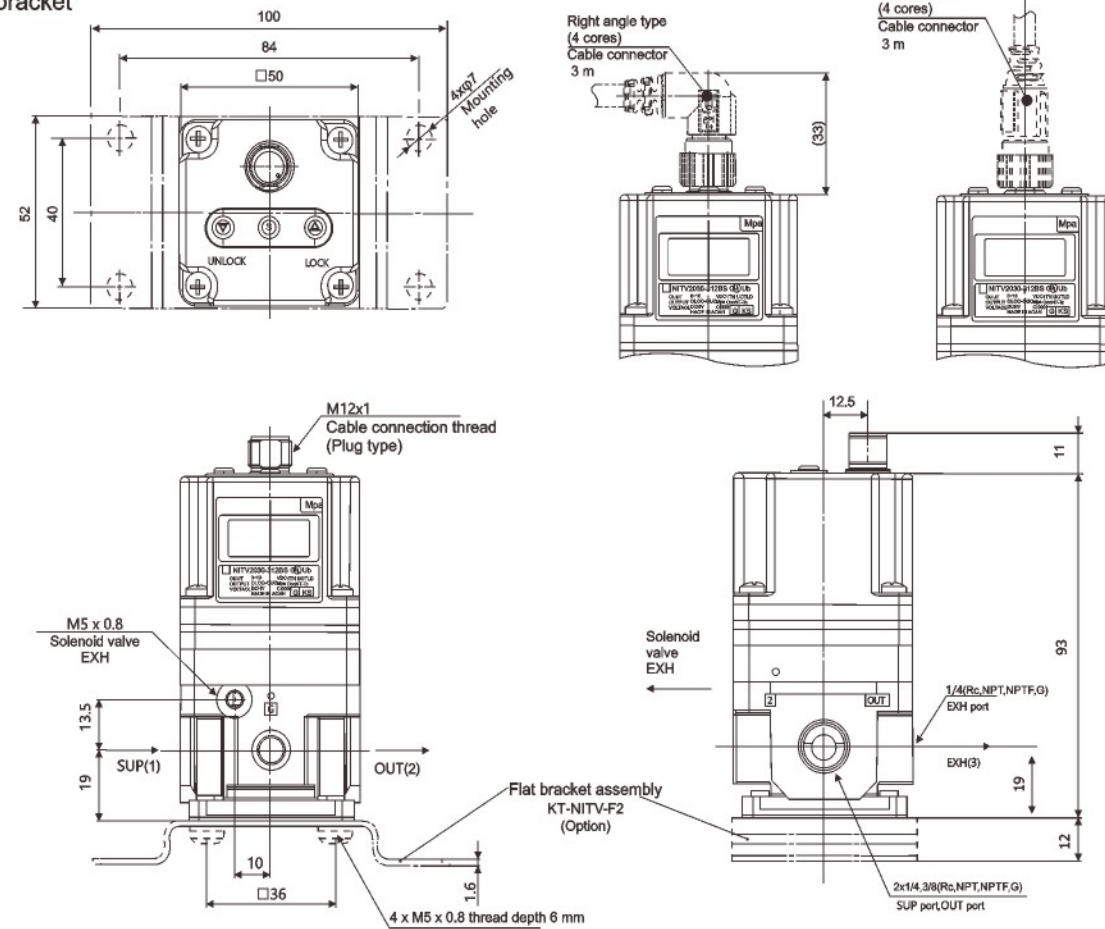


16 points preset input

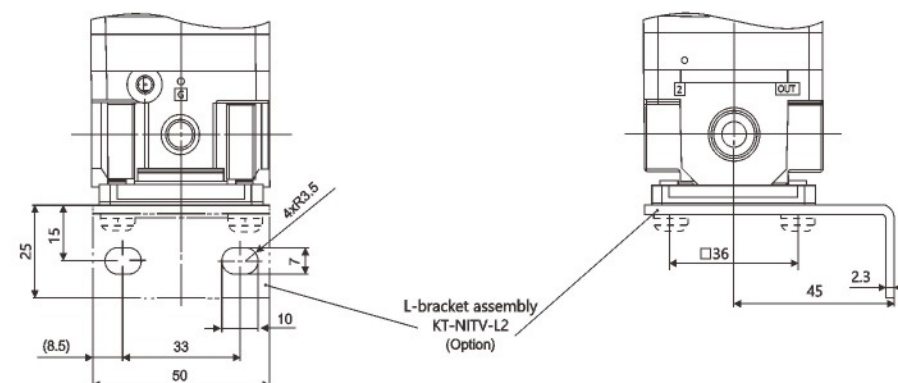


Dimensions

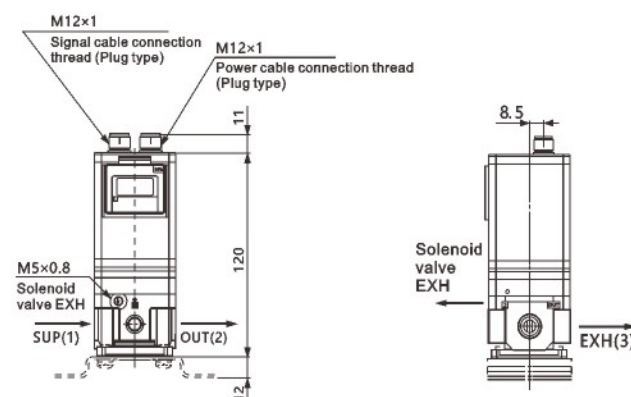
ITV20□□
Flat bracket



L-bracket

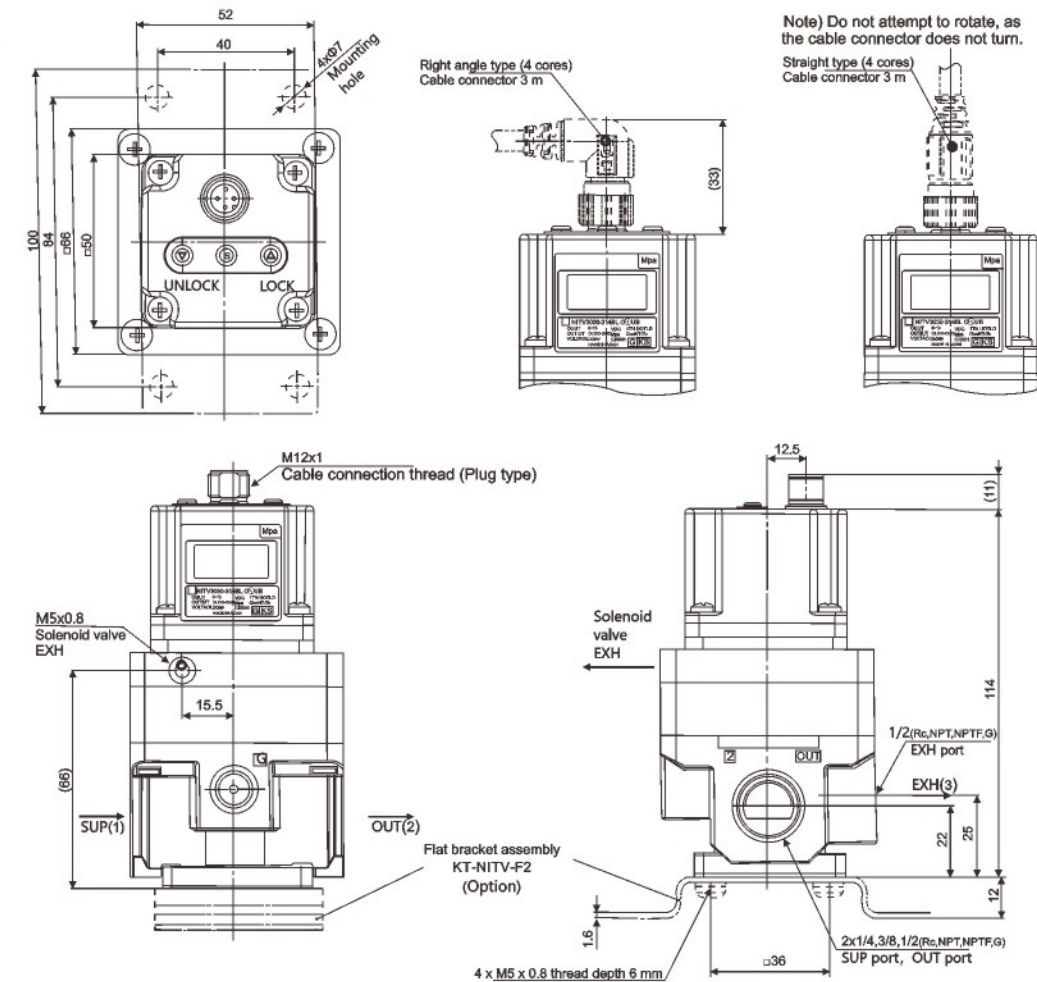


16 points preset input

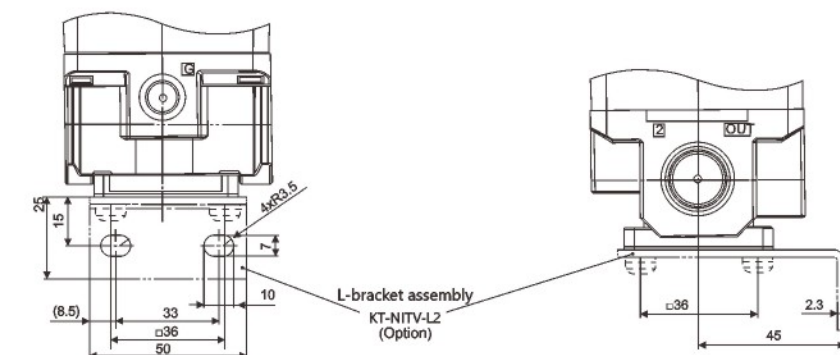


Dimensions

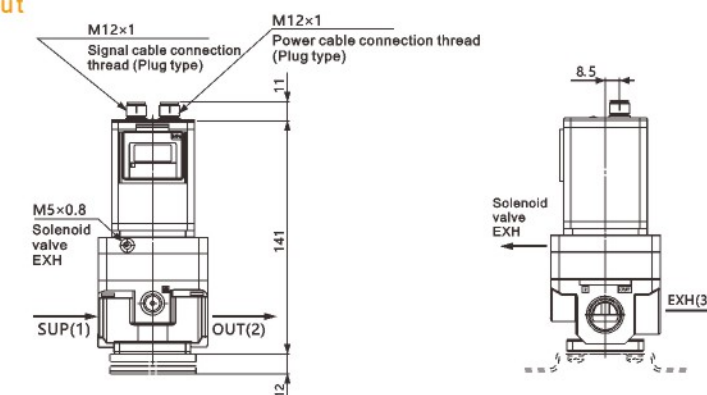
ITV30□□
Flat bracket



L-bracket



16 points preset input



AIR SOURCE TREATMENT

气源处理件



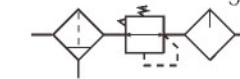
AC Series F.R.L combination



Order Code

AC	2000	-	02	□
Series	Body Size		Port Size	Drain Mode
	1000		M5	Nil
	2000		02	1/4"
	3000		03	3/8"
	4000		04	1/2"
	5000		06	3/4"
			10	1"
				Semi-Automatic Type
				Automatic Type

Symbol

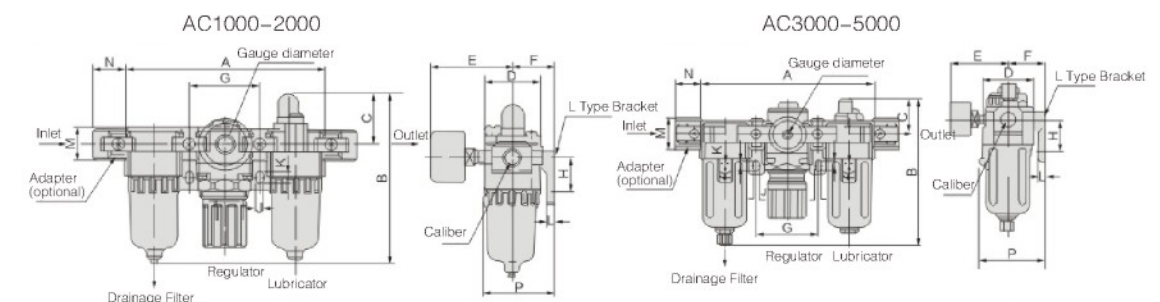


Technical Specification

Proof Pressure	1.5MPa { 15bar , 217.5psi }
Max. operating pressure	1.0MPa { 10bar, 145psi }
Ambient Temperature	-5~60°C(Not Frozen)
Filter Precision	40 μm
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)
Bowl Material	PC
Cup Cover	AC 1000-2000(Without) AC3000-5000(with)
Range of Regulation	AC 1000:0.05-0.7MPa(7.25-101.5 psi) AC2000-5000:0.05-0.85MPa(7.25-123 psi)

Model		Specifications					
Manual	Automatic	Combinations			Max. Flow (L/min)	Port Size Rp(PT)	Pressure Gauge SizeRp(PT)
		Filter	Regulator	Lubricator			
AC1000-M5	AC1000-M5D	AF1000	AR1000	AL1000	90	M5x0.8	1/16
AC2000-02	AC2000-02D	AF2000	AR2000	AL2000	500	1/4	1/8
AC3000-02	AC3000-02D	AF3000	AR3000	AL3000	2000	1/4	1/8
AC3000-03	AC3000-03D	AF3000	AR3000	AL3000	2000	3/8	1/8
AC4000-03	AC4000-03D	AF4000	AR4000	AL4000	4000	3/8	1/4
AC4000-04	AC4000-04D	AF4000	AR4000	AL4000	4000	1/2	1/4
AC4000-06	AC4000-06D	AF4000	AR4000	AL4000	4500	3/4	1/4
AC5000-06	AC5000-06D	AF5000	AR5000	AL5000	5000	3/4	1/4
AC5000-10	AC5000-10D	AF5000	AR5000	AL5000	5000	1	1/4

Dimension(mm)



Model	Port Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	With Auto Drain B
AC1000-M5	M5x0.8	89	87	25	25	33.5	25.5	31	20	4.5	7	3	18	16	41	106
AC2000-01/02	1/8 • 1/4	140	124.5	39	40	53	30	50	24	5.5	8.5	5	22	23	50	146
AC3000-02/03	1/4 • 3/8	182	158	37	53	54.5	41	64	35	6	10	7	34	26	70	197
AC4000-03/04	3/8 • 1/2	238	195	43	70	60	49	84	40	9	13	7	42	33	86	213
AC4000-06	3/4	253	197	43	70	66	51	89	40	9	13	8	48	36	88	215
AC5000-06/10	3/4 • 1	300	272	47	90	70	68	105	50	12	16	10	55	40	-	290

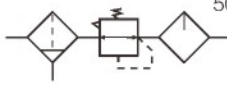
AC Series FR.L combination



Order Code

AC	2000	-	02	□
Series	Body Size	Port Size	Drain Mode	
	1010	M5	Nil	
	2010	02	Semi-Automatic Type	
	3010	03	Automatic Type	
	4010	04		
	5010	06		
		10		

Symbol

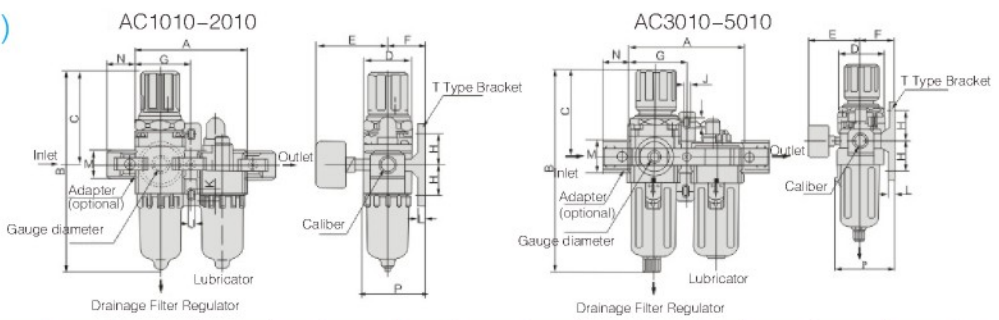


Technical Specification

Proof Pressure	1.5MPa { 15bar , 217.5psi }
Max. operating pressure	1.0MPa { 10bar,145psi }
Ambient Temperature	-5~60℃(Not Frozen)
Filter Precision	40 μ m
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)
Bowl Material	PC
Cup Cover	AC1000-2000(Without) AC3000-5000(with)
Range of Regulation	AC1010:0.05-0.7MPa { 7.25-101.5 psi} AC2010-5010:0.05-0.85MPa { 7.25-123 psi}

Model		Specifications				
		Combinations		Max. Flow (L/min)	Port Size Rp(PT)	Pressure Gauge SizeRp(PT)
Manual	Automatic	Filter	Lubricator			
AC1010-M5	AC1010-M5D	AW1000	AL1000	90	M5x0.8	1/16
AC2010-02	AC2010-02D	AW2000	AL2000	500	1/4	1/8
AC3010-02	AC3010-02D	AW3000	AL3000	1700	1/4	1/8
AC3010-03	AC3010-03D	AW3000	AL3000	1700	3/8	1/8
AC4010-03	AC4010-03D	AW4000	AL4000	3000	3/8	1/8
AC4010-04	AC4010-04D	AW4000	AL4000	3000	1/2	1/4
AC4010-06	AC4010-06D	AW4000	AL4000	3000	3/4	1/4
AC5010-06	AC5010-06D	AW5000	AL5000	4000	3/4	1/4
AC5010-10	AC5010-10D	AW5000	AL5000	4000	1	1/4

Dimension(mm)



Model	Port Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	With Auto Drain B
AC1010-M5	M5x0.8	58	108	50.5	25	33.5	25.5	28	20	4.5	7	3	18	16	41	127
AC2010-01/02	1/8 • 1/4	90	160	74	40	53	30	45	24	5.5	8.5	5	22	23	50	181
AC3010-02/03	1/4 • 3/8	117	207	89	53	54.5	41	58.5	35	6	10	7	34	26	70	245
AC4010-03/04	3/8 • 1/2	155	259	109	70	60	49	77	40	9	13	7	42	33	86	276
AC4010-06	3/4	165	263	111	70	66	51	82	40	9	13	8	48	36	88	281
AC5010-06/10	3/4 • 1	196	339	117	90	70	68	97.5	50	12	16	10	55	40	-	356

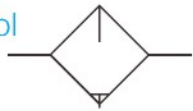
AF Series Air filter



Order Code

AF	2000	-	02	□
Series	Body Size	Port Size	Drain Mode	
	1000	M5	Nil	
	2000	02	Semi-Automatic Type	
	3000	03	Automatic Type	
	4000	04		
	5000	06		
		10		

Symbol



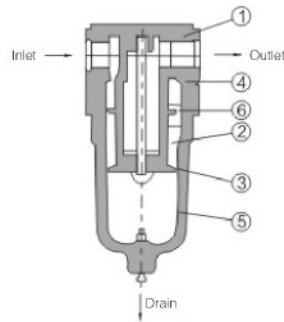
Technical Specification

Proof Pressure	1.5MPa { 15bar , 217.5psi }
Max. operating pressure	1.0MPa { 10bar,145psi }
Ambient Temperature	-5~60℃(Not Frozen)
Filter Precision	40 μ m
Bowl Material	PC
Cup Cover	AC1000-2000(Without) AC3000-5000(with)

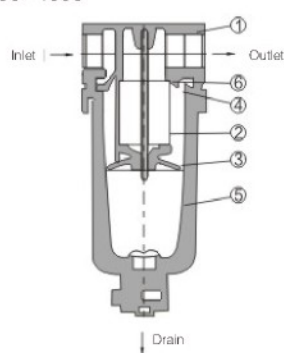
Model		Specifications		
		Max. Flow (L/min)	Port Size Rp(PT)	Cup Combination(cm²)
Manual	Automatic			
AF1000-M5	AF1000-M5D	110	M5x0.8	4
AF2000-02	AF2000-02D	750	1/4	15
AF3000-02	AF3000-02D	1500	1/4	20
AF3000-03	AF3000-03D	1500	3/8	20
AF4000-03	AF4000-03D	4000	3/8	45
AF4000-04	AF4000-04D	4000	1/2	45
AF4000-06	AF4000-06D	6000	3/4	45
AF5000-06	AF5000-06D	7000	3/4	130
AF5000-10	AF5000-10D	7000	1	130

Structure Charts

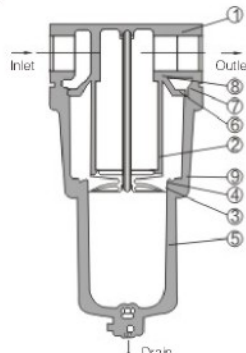
AF1000~2000



AF3000~4000

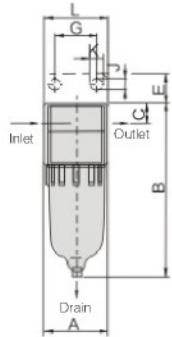


AF5000

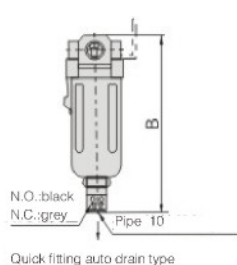
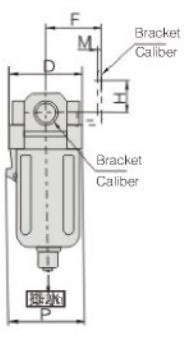
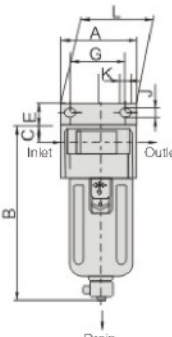


Dimension(mm)

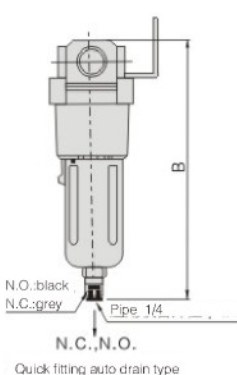
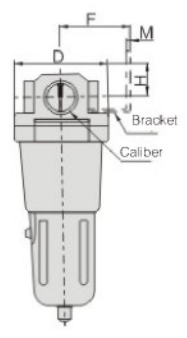
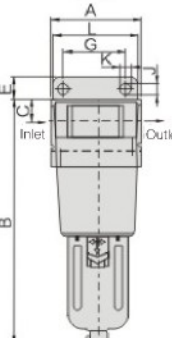
AF1000~2000



AF3000~4000



AF5000



Model	Port Size	A	B	C	D	E	F	G	H	J	K	L	M	P	With Auto Drain
															B
AF1000-M5	M5x0.8	25	68	7.5	25	-	-	-	-	-	-	-	-	25	87
AF2000-01/02	1/8 • 1/4	40	97.5	11	40	17	30	27	21	5.5	8.5	40	1.8	40	120
AF3000-02/03	1/4 • 3/8	53	134	14	53	16	41	40	24	6.5	8	53	1.8	55	173
AF4000-03/04	3/8 • 1/2	70	169	17	70	17	50	51.5	24	8.5	12	69	1.8	72	186
AF4000-06	3/4	75	173	20	70	-	-	-	-	-	-	-	-	72	191
AF5000-06/10	3/4 • 1	90	248	25	90	-	-	-	-	-	-	-	-	-	266

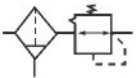
AW Series Air filter-regulator



Order Code

AW	2000	-	02	D
Series	Body Size	Port Size	Drain Mode	
	1000	M5	Nil	Semi-Automatic Type
	2000	02	D	Automatic Type
	3000	03		
	4000	04		
	5000	06		
		10		

Symbol



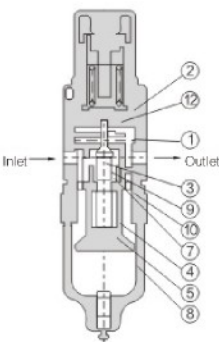
Technical Specification

Proof Pressure	1.5MPa { 15bar , 217.5psi }
Max. operating pressure	1.0MPa { 10bar, 145psi }
Ambient Temperature	-5~60°C(Not Frozen)
Filter Precision	40 μ m, 5 μ m(customized)
Bowl Material	PC
Cup Cover	AC1000-2000(Without) AC3000-5000(with)
Range of Regulation	AW1000:0.05-0.7MPa(7.25-101.5 psi) AW2000-5000:0.05-0.85MPa(7.25-123 psi)

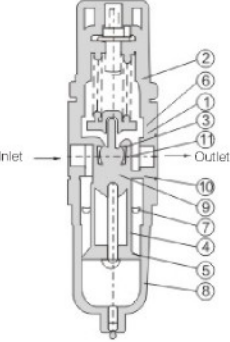
Model		Specifications		
Manual	Automatic	Max. Flow(L/min)	Port SizeRp(PT)	Pressure Gauge SizeRp(PT)
AW1000-M5	AW1000-M5D	100	M5x0.8	1/16
AW2000-02	AW2000-02D	550	1/4	1/8
AW3000-02	AW3000-02D	2000	1/4	1/8
AW3000-03	AW3000-03D	2000	3/8	1/8
AW4000-03	AW4000-03D	4000	3/8	1/4
AW4000-04	AW4000-04D	4000	1/2	1/4
AW4000-06	AW4000-06D	4500	3/4	1/4
AW5000-06	AW5000-06D	5000	3/4	1/4
AW5000-10	AW5000-10D	5000	1	1/4

Structure Charts

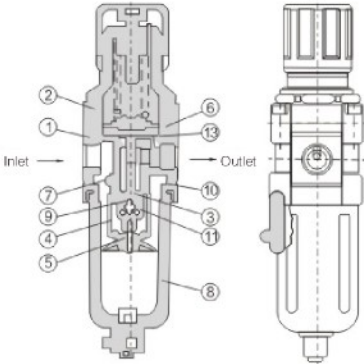
AW1000



AW2000

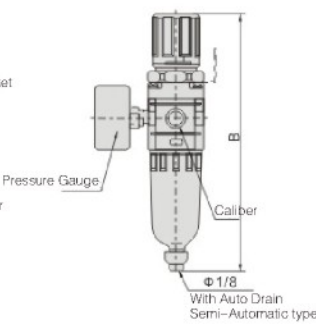
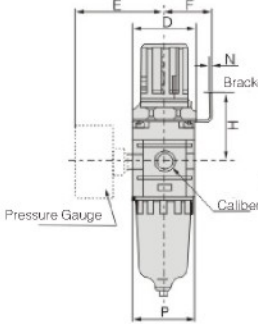
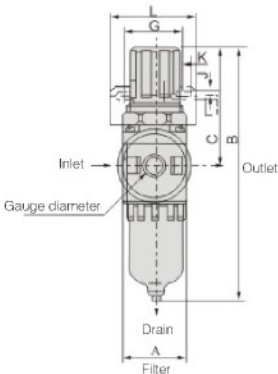


AW3000~4000

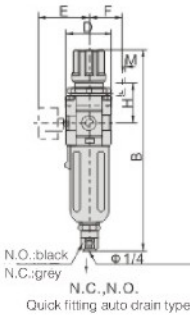
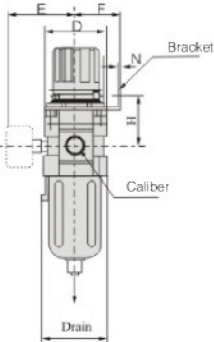
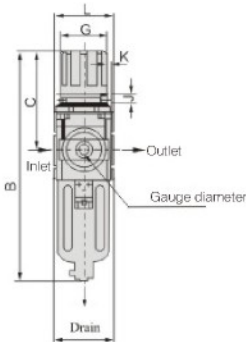


Dimension(mm)

AW1000~2000



AW3000~4000



Model	Port Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	With Auto Drain B
AW1000-M5	M5x0.8	25	108	50.5	25	33.5	25	28	30	4.5	6.5	40	1.8	18.5	25	127
AW2000-01/02	1/8 • 1/4	40	160	74	40	53	33	33.5	43	5.5	15	55	1.8	33.5	40	181
AW3000-02/03	1/4 • 3/8	53	207	89	53	54.5	41	36	47	6.5	11.5	54	1.8	42.5	55	245
AW4000-03/04	3/8 • 1/2	70	259	109	70	60	49	53	52	8.5	10.5	70	1.8	52.5	72	276
AW4000-06	3/4	75	263	111	70	66	49	53	56	8.5	10.5	70	1.8	52.5	72	281
AW5000-06/10	3/4 • 1	90	339	117	90	70	49	53	62	8.5	10.5	70	1.8	52.5	-	356

AR Series Air Regulator



Order Code

AR	2000	-	02
Series	Body Size	Port Size	
	1000	M5	M5
	2000	02	1/4"
	3000	03	3/8"
	4000	04	1/2"
	5000	06	3/4"
		10	1"

Symbol

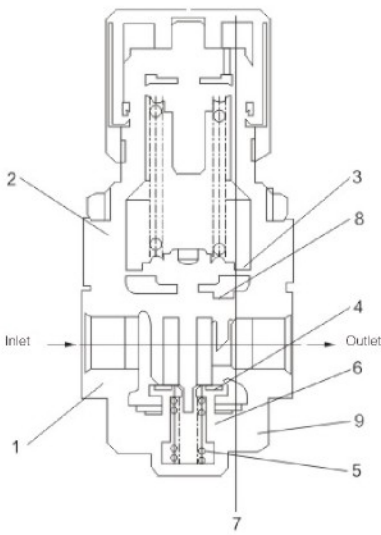


Technical Specification

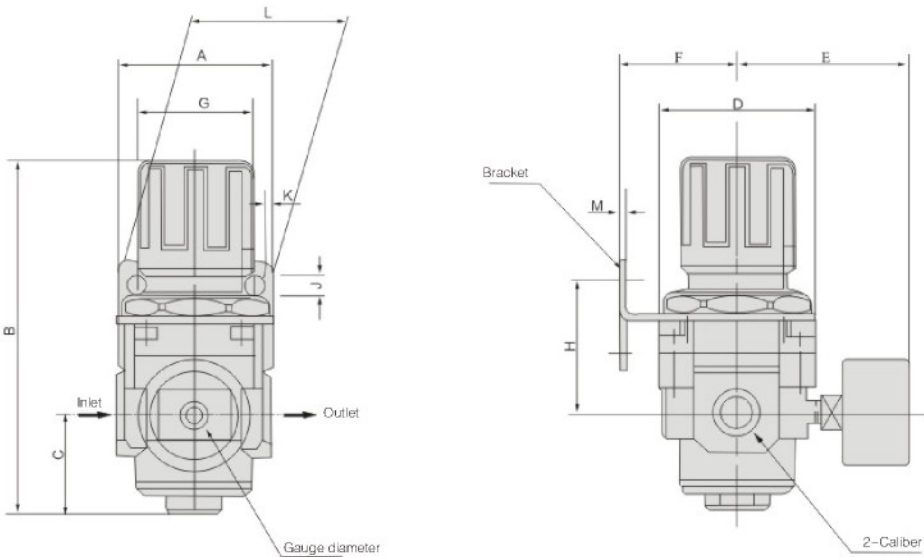
Proof Pressure	1.5MPa { 15bar , 217.5psi }
Max. operating pressure	1.0MPa { 10bar, 145psi }
Ambient Temperature	-5~60°C(Not Frozen)
Range of Regulation	AR1000:0.05~0.7MPa(7.25~101.5 psi)
	AR2000~5000:0.05~0.85MPa(7.25~123 psi)

Model	Specifications		
	Max. Flow(L/min)	Port SizeRp(PT)	Pressure Gauge SizeRp(PT)
AR1000-M5	100	M5 × 0.8	1/16
AR2000-02	550	1/4	1/8
AR3000-02	2500	1/4	1/8
AR3000-03	2500	3/8	1/8
AR4000-03	6000	3/8	1/4
AR4000-04	6000	1/2	1/4
AR4000-06	6000	3/4	1/4
AR5000-06	8000	3/4	1/4
AR5000-10	8000	1	1/4

Structure Charts



Dimension(mm)



Model	Port Size	A	B	C	D	E	F	G	H	J	K	L	M	N
AR1000-M5	M5x0.8	25	58	12	25	33.5	25	28	27.5	4.5	6.5	40	1.8	18.5
AR2000-01/02	1/8 • 1/4	40	92	17	40	53	33	33.5	43	5.5	15	55	1.8	33.5
AR3000-02/03	1/4 • 3/8	53	123.5	35	53	54.5	41	36	46	6.5	11.5	54	1.8	42.5
AR4000-03/04	3/8 • 1/2	70	145.5	37.5	70	60	49	53	52	8.5	10.5	70	1.8	52.5
AR4000-06	3/4	75	150	38.5	70	66	49	53	56	8.5	10.5	70	1.8	52.5
AR5000-06/10	3/4 • 1	90	165	48	90	70	49	53	62	8.5	10.5	70	1.8	52.5

AL Series Air Lubricator



Order Code

AL	2000	-	02
Series	Body Size	Port Size	
	1000	M5	M5
	2000	02	1/4"
	3000	03	3/8"
	4000	04	1/2"
	5000	06	3/4"
		10	1"

Symbol

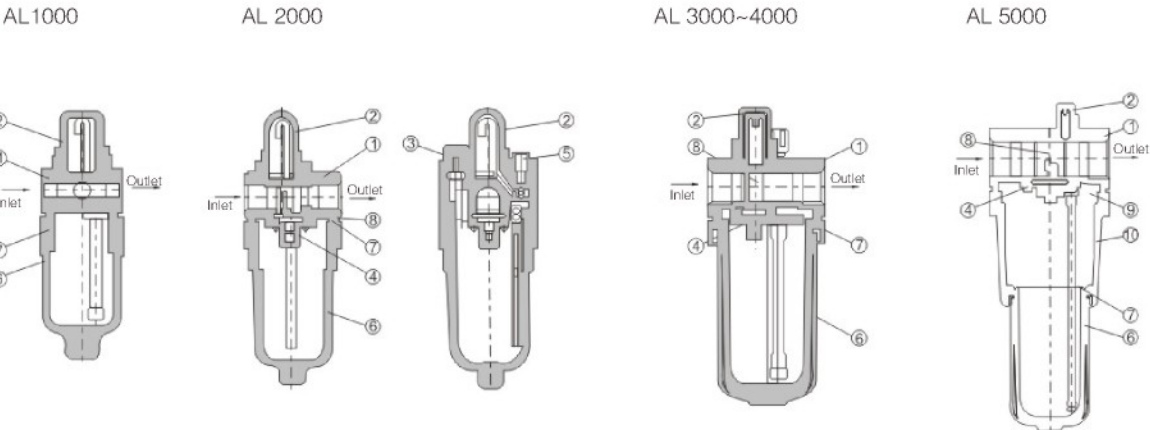


Technical Specification

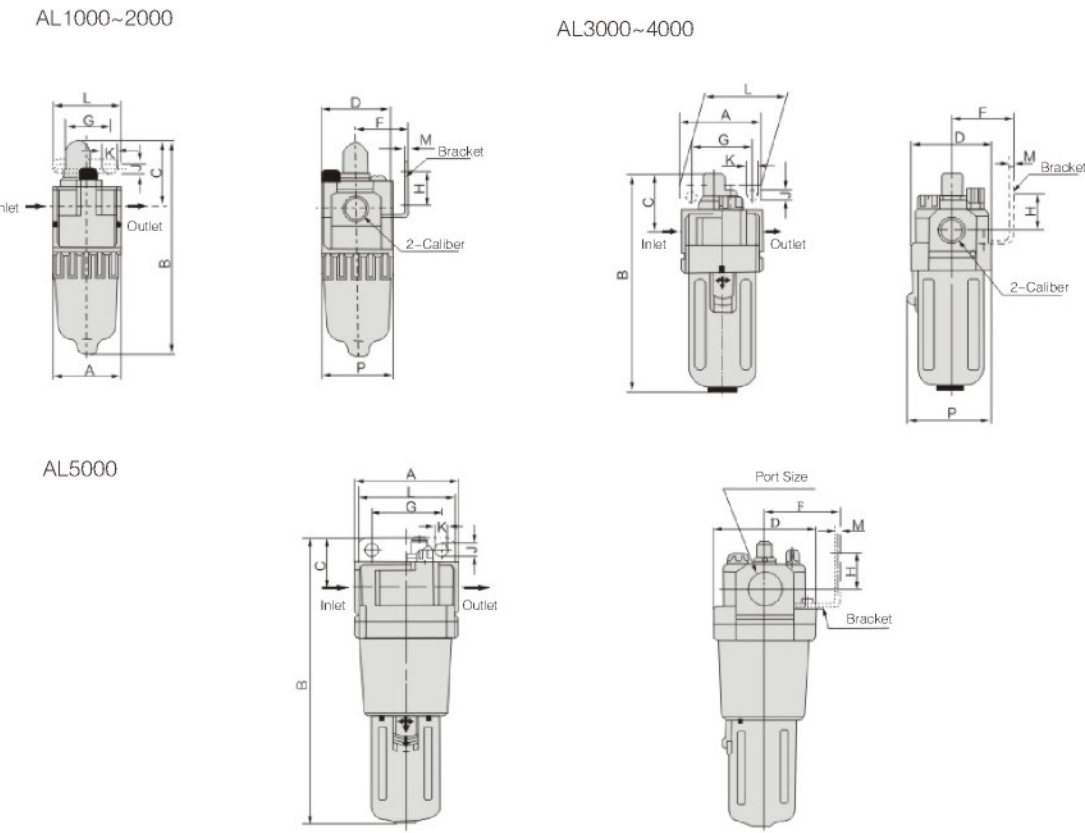
Proof Pressure	1.5MPa { 15bar , 217.5psi }
Max. operating pressure	1.0MPa { 10bar,145psi }
Ambient Temperature	-5~60℃(Not Frozen)
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)
Bowl Material	PC
Cup Cover	AC1000-2000(Without) AC3000-5000(with)

Model	Max. Flow(L/min)	Specifications		
		Max. Flow(L/min)	Port SizeRp(PT)	cup combination(cm²)
AL1000-M5	4	95	M5 × 0.8	7
AL2000-02	15	800	1/4	25
AL3000-02	30	1700	1/4	50
AL3000-03	40	5000	3/8	50
AL4000-03	40	5000	3/8	130
AL4000-04	50	5000	1/2	130
AL4000-06	50	6300	3/4	130
AL5000-06	190	7000	3/4	130
AL5000-10	190	7000	1	130

Structure Charts



Dimension(mm)



Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	N
AL1000-M5	M5x0.8	25	77	25	25	-	-	-	-	-	-	-	-	25
AL2000-01/02	1/8 • 1/4	40	118	39	40	12	30	27	21.24	5.5	8.5	40	1.8	40
AL3000-02/03	1/4 • 3/8	53	141	37	53	14	41	40	24	6.5	8	53	1.8	55
AL4000-03/04	3/8 • 1/2	70	177	43	70	17	50	51.5	24	8.5	12	69	1.8	72
AL4000-06	3/4	75	180	43	70	-	-	-	-	-	-	-	-	72
AL5000-06/10	3/4 • 1	90	255	47	90	-	-	-	-	-	-	-	-	-

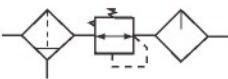
G Series F.R.L combination



Order code

GC200 - 08 - □ - F - □ - □									
Series		Drain mode		Filter Accuracy		Port Size			
GC200 series		Nil		Nil		Nil			
GC300 series		Semi-Automatic Type		40 μ M level		PT Port			
GC400 series		Automatic Type		5 μ M level		NPT Port			
Port Size		Pressure Gauge type		G Port					
06 PT1/8		F Square Gauge							
08 PT1/4		C Round Gauge							
10 PT3/8									
15 PT1/2									

Symbol



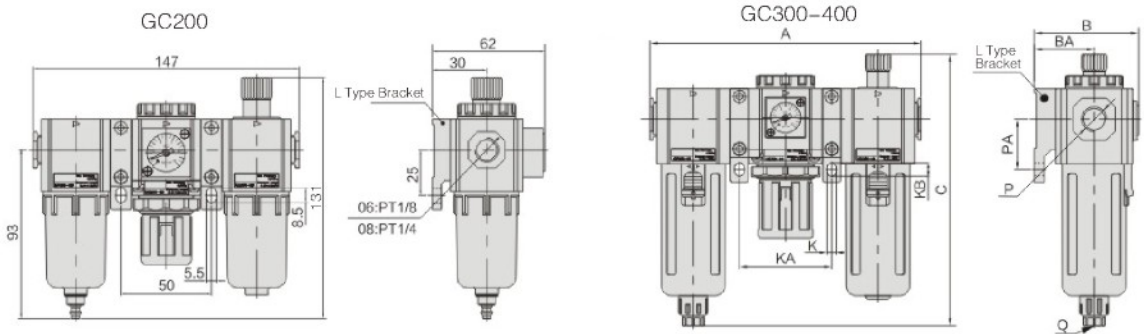
Product feature

- 1.Quick and reliable mounting clamps makes it convenient to install and use .
- 2.The performance of pressure adjustment is reliable with high precision.
- 3.The efficiency of eliminating moisture and solid grain is high.
- 4.Oil dripping adopts gas seal structure,which makes the adjustment of oil supply more reliable.

Technical 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
Filter Precision	40 μ m or 5 μ m						
Pressure Range	Automatic and Semi-Automatic:0.15~0.9MPa						
Proof Pressure	1.5MPa(215Psi)						
Temperature Range	-5~60℃(Not Frozen)						
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)						
Water Cup Capacity	10CC		40CC			80CC	
Oil Cup Capacity	25CC		75CC			160CC	
Weight(kg)	0.68kg		1.42kg			2.60kg	

Dimension(mm)



Model	A	B	BA	C	K	KA	KB	P	PA	E
GC300-08	188	72	41.5	188	6.5	64	9	PT1/4	35	G1/8
GC300-10	188	72	41.5	188	6.5	64	9	PT3/8	35	G1/8
GC300-15	188	72	41.5	188	6.5	64	9	PT1/2	35	G1/8
GC400-10	248	89	50	207	8.6	84	12	PT3/8	40	G1/4
GC400-15	248	89	50	207	8.6	84	12	PT1/2	40	G1/4

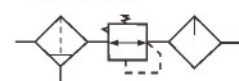
G Series FR.L combination



Order Code

GFC200	-	08	-	□	-	F	-	□	-	□
Series						Pressure Gauge type				Port Size
GFC200 series						F				Nil
GFC300 series						C				PT Port
GFC400 series										NPT Port
						Drain Mode				G Port
						Nil				
						Semi-Automatic Type				
						Automatic Type				
						Filter Accuracy				
						Nil				40 μ M level
						W				5 μ M level
Port Size										
06										PT1/8
08										PT1/4
10										PT3/8
15										PT1/2

Symbol



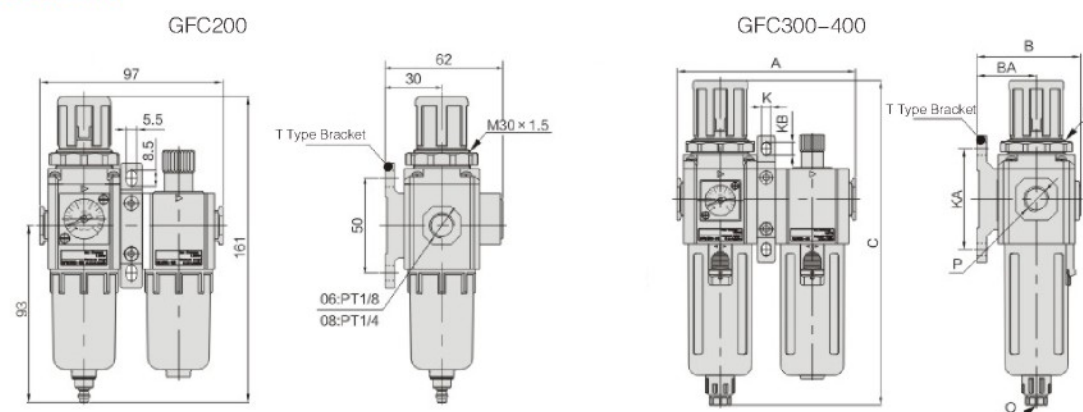
Product feature

- 1.Quick and reliable mounting clamps makes it convenient to install and use .
- 2.The performance of pressure adjustment is reliable with high precision.
- 3.The efficiency of eliminating moisture and solid grain is high.

Technical Specification

Model	GFC200-06	GFC200-08	GFC300-08	GFC300-10	GFC300-15	GFC400-10	GFC400-15
Working Medium	Air						
Port Size	PT1/8	PT1/4	PT1/4	PT3/8	PT1/2	PT3/8	PT1/2
Filter Precision	40 μ m or 5 μ m						
Pressure Range	Automatic and Semi-Automatic:0.15~0.9MPa						
Proof Pressure	1.5MPa(215Psi)						
Temperature Range	-5~60°C(Not Frozen)						
Suggested Lubricating Oil	Turbine No.1 Oil(ISO VG32)						
Water Cup Capacity	10CC		40CC			80CC	
Oil Cup Capacity	25CC		75CC			160CC	
Weight(kg)	0.44kg		1.0kg			1.95kg	

Dimension(mm)



Model	A	B	BA	C	D	K	KA	KB	P	Q
GFC300-08	124	72	41.5	225.5	M40x1.5	6.5	70	9	PT1/4	G1/8
GFC300-10	124	72	41.5	225.5	M40x1.5	6.5	70	9	PT3/8	G1/8
GFC300-15	124	72	41.5	225.5	M40x1.5	6.5	70	9	PT1/2	G1/8
GFC400-10	164	89	50	266	M55x2.0	8.6	80	12	PT3/8	G1/4
GFC400-15	164	89	50	266	M55x2.0	8.6	80	12	PT1/2	G1/4

G Series Air filter



Order Code

GF200	-	08	-	□	-	F	-	□	-	□
Series						Pressure Gauge type				Port Size
Gf200 series						F				Nil
GF300 series						C				PT Port
GF400 series										NPT Port
						Drain Mode				G Port
						Nil				
						Semi-Automatic Type				
						Automatic Type				
						Filter Accuracy				
						Nil				40 μ M level
						W				5 μ M level
Port Size										
06										PT1/8
08										PT1/4
10										PT3/8
15										PT1/2

Symbol



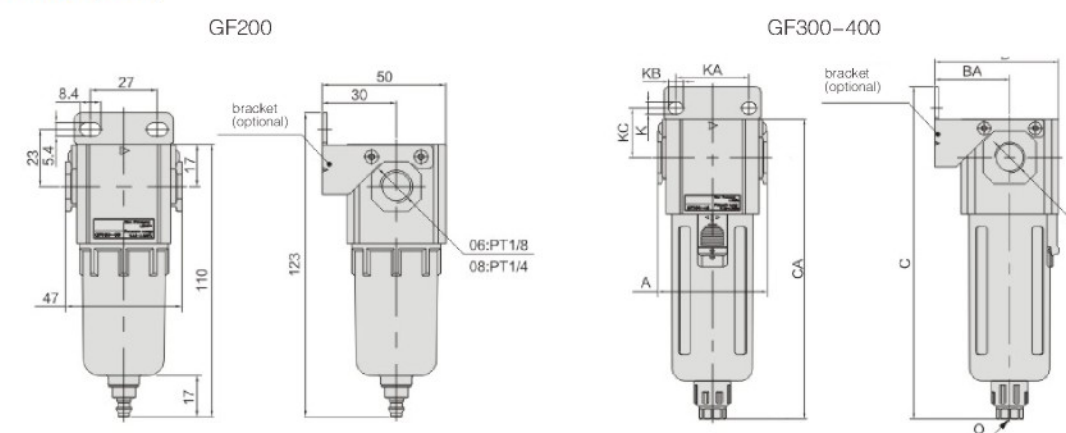
Product feature

- 1.unique diversion structure spins the air flowing through to effectively separate the liquid from the air and reliably filter the solid grain
- 2.It has low pressure loss, high efficiency in separating water and large drain bowl capacity
- 3.Filtering grade includes 5um or 40um (optional)

Technical Specification

Model	GF200-06	GF200-08	GF300-08	GF300-10	GF300-15	GF400-10	GF400-15
Working Medium	Air						
Port Size	PT1/8	PT1/4	PT1/4	PT3/8	PT1/2	PT3/8	PT1/2
Filter Precision	40 μ m or 5 μ m						
Pressure Range	Automatic and Semi-Automatic:0.15~0.9MPa						
Proof Pressure	1.5MPa						
Temperature Range	-5~60°C(Not Frozen)						
Water Cup Capacity	10CC		40CC			80CC	
Weight(kg)	0.15kg		0.36kg			0.68kg	

Dimension(mm)



Model	A	B	BA	C	CA	K	KA	KB	KC	P	Q
GF300-08	60	67.5	41	182	164	6.5	40	8	27	PT1/4	G1/8
GF300-10	60	67.5	41	182	164	6.5	40	8	27	PT3/8	G1/8
GF300-15	60	67.5	41	182	164	6.5	40	8	27	PT1/2	G1/8
GF400-10	60	85.5	50	208	185	8.6	55	11	33.5	PT3/8	G1/4
GF400-15	60	85.8	50	208	185	8.6	55	11	33.5	PT1/2	G1/4

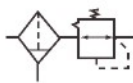
G Series Air filter-regulator



Order Code

GFR200 - 08 - □ - F - □ - □									
Series		Drain Mode		Pressure Gauge type		Port Size			
GFR200 series		Nil		F		Nil		PT Port	
GFR300 series		D		C		T		NPT Port	
GFR400 series		Semi-Automatic Type		Square Gauge		G		G Port	
		Automatic Type		Round Gauge					
Port Size						Filter Accuracy			
06 PT1/8						Nil			
08 PT1/4						W			
10 PT3/8						40 μ M level			
15 PT1/2						5 μ M level			

Symbol



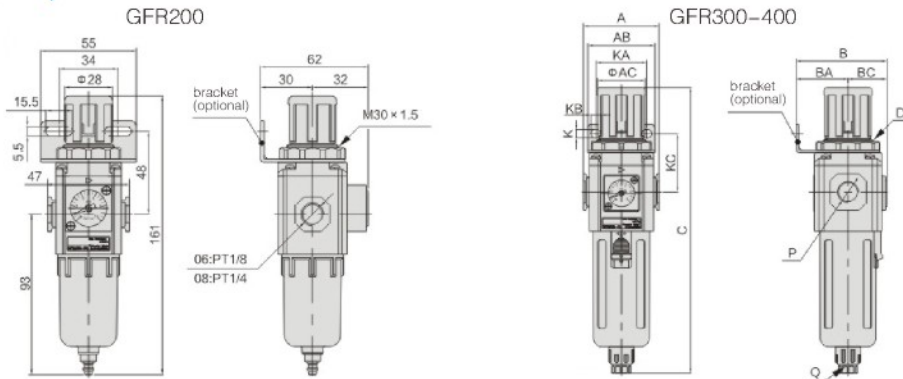
Product feature

- 1.Embedded square pressure gauge is used to save installation space.
- 2.The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
- 3.Balanced design is adopted for the pressure adjustment mechanism .
- 4.The filtering grade includes 5um and 40 um (optional).

Technical Specification

Model	GFR200-06	GFR200-08	GFR300-08	GFR300-10	GFR300-15	GFR400-10	GFR400-15
Working Medium	Air						
Port Size	PT1/8	PT1/4	PT1/4	PT3/8	PT1/2	PT3/8	PT1/2
Filter Precision	40 μ m Or 5 μ m						
Pressure Range	Automatic and Semi-Automatic:0.15-0.9MPa						
Proof Pressure	1.5MPa						
Temperature Range	-5~60℃(Not Frozen)						
Water Cup Capacity	10CC		40CC			80CC	
Weight(kg)	0.32kg		0.62kg			1.20kg	

Dimension(mm)



Model	A	AB	AC	B	BA	BC	C	D	K	KA	KB	KC	P	Q
GFR300-08	60	53	38	72	41	31	225.5	M40x1.5	6.5	40	8	46	PT1/4	G1/8
GFR300-10	60	53	38	72	41	31	225.5	M40x1.5	6.5	40	8	46	PT3/8	G1/8
GFR300-15	60	53	38	72	41	31	225.5	M40x1.5	6.5	40	8	46	PT1/2	G1/8
GFR400-10	80	72	52	90	50	40	266	M55x2.0	6.5	52	11	53	PT3/8	G1/4
GFR400-15	80	72	52	90	50	40	266	M55x2.0	8.5	52	11	53	PT1/2	G1/4

G Series Air Regulator



Order Code

GR200 - 08 - □ - F - □ - □									
Series		Drain Mode		Pressure Gauge type		Port Size			
GR200 series		Nil		F		Nil		PT Port	
GR300 series		D		C		T		NPT Po	
GR400 series		Semi-Automatic Type		Square Gauge		G		G Port	
		Automatic Type		Round Gauge					
Port Size						Filter Accuracy			
06 PT1/8						Nil			
08 PT1/4						W			
10 PT3/8						40 μ M level			
15 PT1/2						5 μ M level			

Symbol



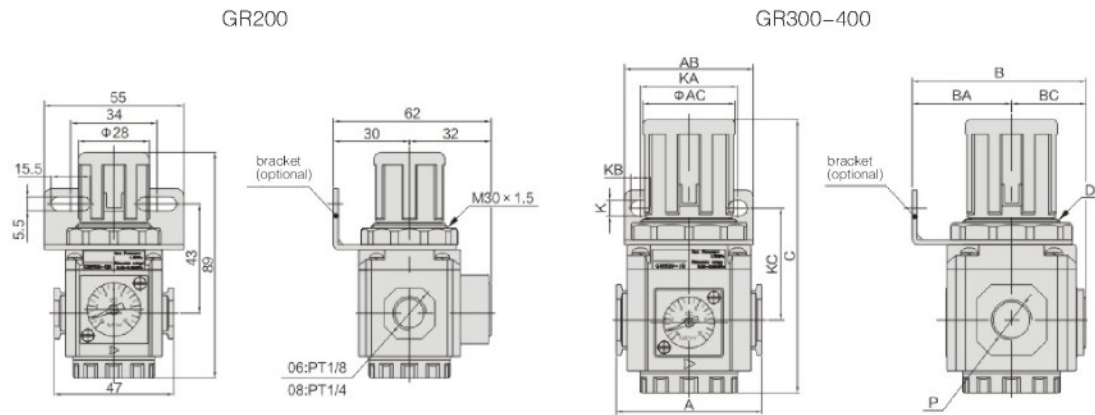
Product feature

- 1.Embedded square pressure gauge is used to save installation space.
- 2.The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
- 3.Balanced design is adopted for the pressure adjustment mechanism

Technical Specification

Model	GR200-06	GR200-08	GR300-08	GR300-10	GR300-15	GR400-10	GR400-15
Working Medium	Air						
Port Size	PT1/8	PT1/4	PT1/4	PT3/8	PT1/2	PT3/8	PT1/2
Pressure Range	0.05-0.9MPa						
Proof Pressure	1.5MPa						
Temperature Range	-5~60℃(Not Frozen)						
Weight(kg)	0.26kg		0.45kg			0.80kg	

Dimension(mm)



Model	A	AB	AC	B	BA	BC	C	D	K	KA	KB	KC	P
GR300-08	60	53	38	72	41	31	114	M40x1.5	6.5	40	8	46	PT1/4
GR300-10	60	53	38	72	41	31	114	M40x1.5	6.5	40	8	46	PT3/8
GR300-15	60	53	38	72	41	31	114	M40x1.5	6.5	40	8	46	PT1/2
GR400-10	80	72	52	90	50	40	140.5	M55x2.2	8.5	55	11	53	PT3/8
GR400-15	80	72	52	90	50	40	140.5	M55x2.2	8.5	55	11	53	PT1/2

G series Air Lubricator

Order Code



GL200 - 08 - □ - F - □ - □									
Series		Drain Mode		Pressure Gauge type		Port Size			
GL200 series		Nil		F Square Gauge		Nil		PT Port	
GL300 series		Semi-Automatic Type		C Round Gauge		T		NPT Port	
GL400 series		Automatic Type				G		G Port	
Port Size						Filter Accuracy			
06 PT1/8						Nil		40 μ M level	
08 PT1/4						W		5 μ M level	
10 PT3/8									
15 PT1/2									

Symbol



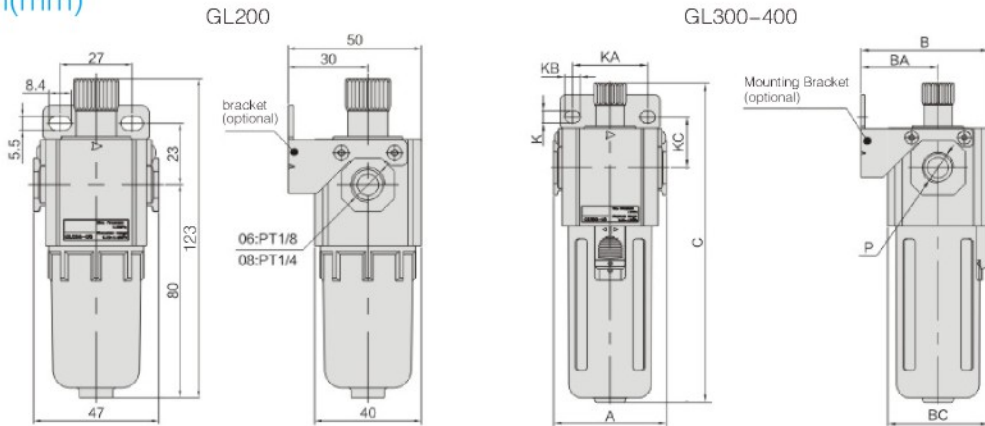
Product Feature

- 1.The structure of oil dripping adopts gap seal type, which makes the adjustment of oil supply more reliable.
- 2. Oil feed ring can only make one full turn. The quantity of oil supply basically takes on linear distribution. The quantity of oil supply can be generally calculated according to the positon of graduation ring.
- 3. Special drip nozzle structure will produce negative pressure in oil dripping outlet and mist flow is minimal.

Technical Specification

Model	GL200-06	GL200-08	GL300-08	GL300-10	GL300-15	GL400-10	GL400-15
Working Medium	Air						
Port Size	PT1/8	PT1/4	PT1/4	PT3/8	PT1/2	PT3/8	PT1/2
Pressure Range	0.05~0.9MPa						
Proof Pressure	1.5MPa						
Temperature Range	-5~60℃(Not Frozen)						
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)						
Oil Cup Capacity	25CC		75CC			160CC	
Weight(kg)	0.14kg		0.40kg			0.70kg	

Dimension(mm)



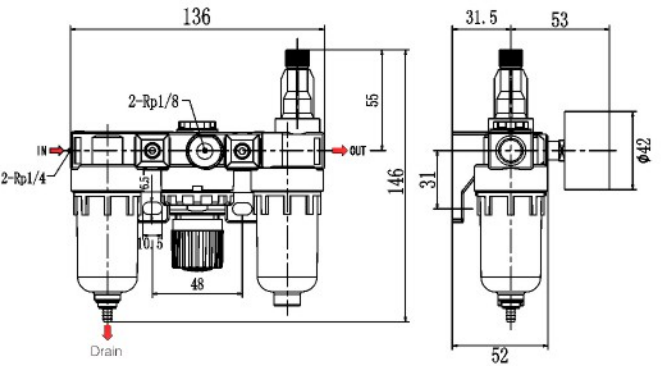
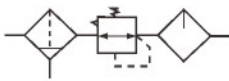
Model	A	B	BA	BC	C	K	KA	KB	KC	P
GL300-08	60	68	41	53.5	174	6.5	40	8	27	PT1/4
GL300-10	60	68	41	53.5	174	6.5	40	8	27	PT3/8
GL300-15	60	68	41	53.5	174	6.5	40	8	27	PT1/2
GL400-10	80	85.5	50	71	188	8.5	55	11	33.5	PT3/8
GL400-15	80	85.5	50	71	188	8.5	55	11	33.5	PT1/2

C Series F.R.L combination

Dimension(mm)



Symbol



Technical Specification

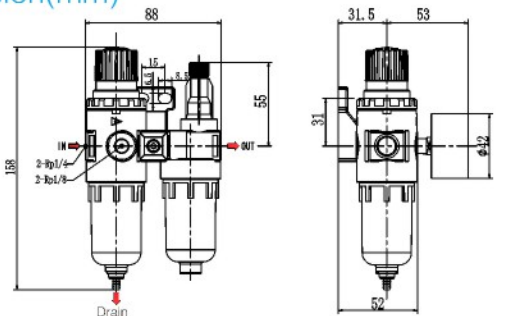
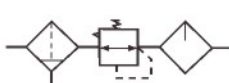
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CC2000	1/4"	650	0.15~0.85	G(with gauge) Environment current temperature -5~60℃(Not Frozen)

C Series FR.L combination

Dimension(mm)



Symbol



Technical Specification

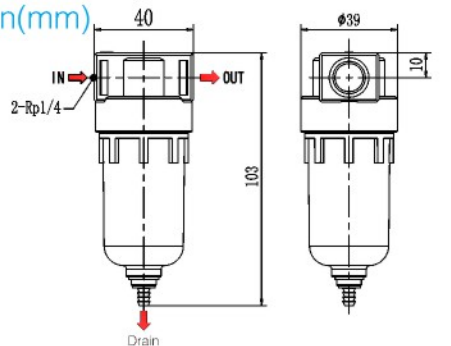
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CFC2000	1/4"	650	0.15~0.85	G(with gauge) Environment current temperature -5~60℃(Not Frozen)

C Series Air filter

Dimension(mm)



Symbol



Technical Specification

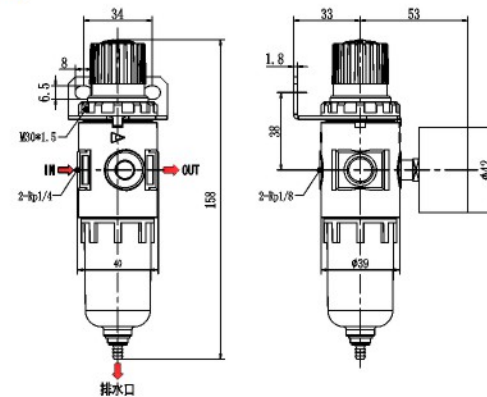
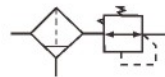
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CF2000	1/4"	650	0.15~0.85	Environment current temperature -5~60℃(Not Frozen)

C Series Air filter-regulator

Dimension(mm)



Symbol



Technical Specification

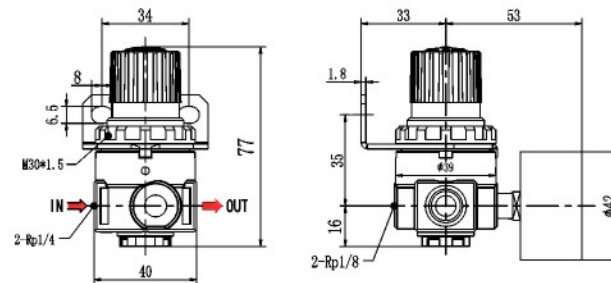
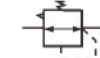
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CFR2000	1/4"	650	0.15~0.85	with mounting bracket G(with gauge) Ambient Temperature: -5~60°C(Not Frozen)

C Series Air Regulator

Dimension(mm)



Symbol



Technical Specification

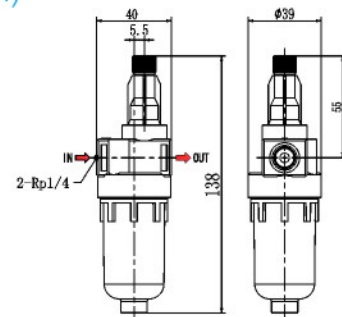
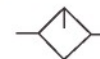
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CR2000	1/4"	650	0.15~0.85	with mounting bracket G(with gauge) Ambient Temperature: -5~60°C(Not Frozen)

C series Lubricator

Dimension(mm)



Symbol



Technical Specification

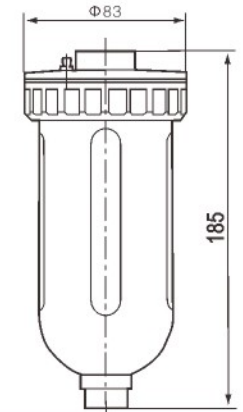
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CL2000	1/4"	650	0.15~0.85	Environment current temperature -5~60°C(Not Frozen)

AD/AH Series Automatic Drain

Dimension(mm)



Symbol



Technical Specification

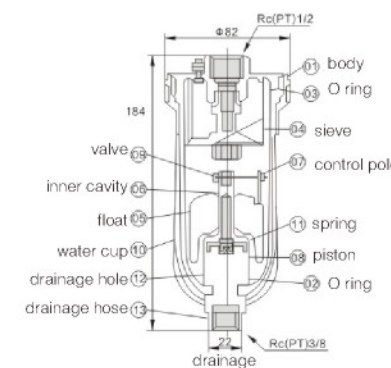
Model	Port Size Rp(PT)	Drain Size Rp(PT)	Pressure Range MPa	Options/Description
AD402	04	1/2"	3/8"	0.15~0.85 Ambient Temperature: -5~60°C(Not Frozen) No need people operating Max. Working pressure: 10MPa (10.2kgf/cm ²) 1.When installing the drainer, the diameter of pipe should be above 10mm, the length not more than 5 meters, and don't make the pipe bending upwards. 2.Compressor power should be more than 3.7kw.
AH402	04	1/2"	3/8"	

NOTICE:

When the drain connect with drainage hose, it required the hose diameter should be bigger than 10mm, the length should be shorter than 5 meters, and keep it down, not up.

The power of the compressor should be greater than 3.7KW

Structure Charts



when there have no pressure in water cup

The float (5) dropped due to the self-weight, The valve (9) closes the cavity hole. the piston (8) is pressed down by the spring (11), and the condensed water is drained through the drain hole (12).

when there have pressure in water cup

When the pressure is above 1 kgf/cm², the piston (8) overcomes the upward pressure of the spring (11), so the drain hole (12) is closed and the water cup (10) is separated from the outside world.

when there have condensed water in water cup

When the condensed water is collected to a certain extent, the float (5) rises due to buoyancy and opens the inner cavity. The piston (8) is pressed down by pressure and spring (11), and the condensed water is drained through the drainage hose (13).

Main parts

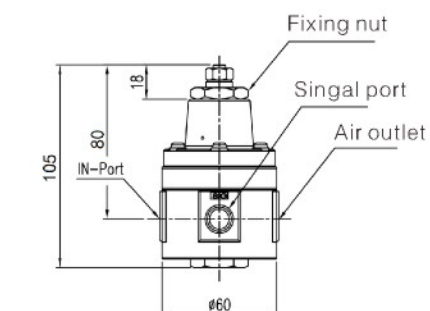
No.	Model	Standard
1	body	Die-casting aluminum

Specification

No.	Model	Model	Standard
2	O ring	NBR	JIS B2401P-8
3	O ring	NBR	113136
4	sieve	SUS	20062

YT Series Lock valve

Dimension(mm)



Technical Specification

Model	YT-400
acting type	Single-action
Signal pressure	1.0MPa ^①
Setting pressure range	0.14~0.7MPa
Working pressure	MAX0.7MPa
Hysteresis	0.01MPa ^②
Effective basal area	1.7mm ²
Ambient Temperature	-5~60°C(Not Frozen)
Port Size	Rc(PT)1/4
Weight	455g

Because of gas source or supply line fault which let to operate pneumatic control circuit accidents, tool-lock can maintain pressure until the gas source or supply lines back to normal.

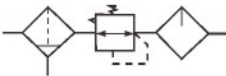
A/B Series F.R.L combination



Order Code

BC		2000	
Series	AC	Port Size	Drain Mode
	A series	2000 1/4"	Nil
	Air Filter combination	3000 3/8"	Semi-Automatic Type
	B series	4000 1/2"	D Automatic Type
	Air Filter combination		

Symbol



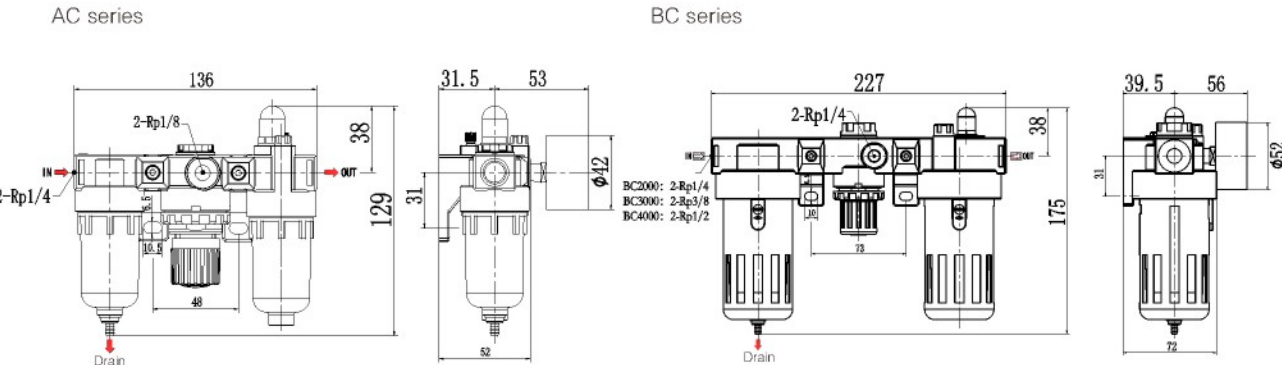
Product feature

- 1. The structure is delicate and compact, which is convenient for installation and application .
- 2.The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
- 3.The pressure loss is low and efficiency of water separating is high.
- 4.The quantity of oil dripping can be directly observed through transparent check-dome.

Technical Specification

Model		AC2000	BC2000	BC3000	BC4000
Working Medium		Air			
Port Size		PT1/4"	PT1/4"	PT3/8"	PT1/2"
Filter Precision		40 μ m Or 5 μ m			
Range of Regulation		Automatic and Semi-Automatic:0.15–0.9MPa			
Max. operating pressure		1.0MPa			
Proof Pressure		1.5MPa			
Temperature Range		–5~60°C(Not Frozen)			
Water Cup Capacity		15CC	60CC		
Oil Cup Capacity		25CC	90CC		
Suggested Lubricating Oil		Turbine No. 1 Oil(ISO VG32)			
Weight(kg)		0.50kg	1.24kg		
Components	Filter	AF2000	BF2000	BF3000	BF4000
	Regulator	AR2000	BR2000	BR3000	BR4000
	Lubricator	AL2000	BL2000	BL3000	BL4000

Dimension(mm)



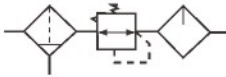
A/B Series FR.L combination



Order Code

BFC		2000	M
Series	AFC	Port Size	Drain Mode
	A series	2000 1/4"	Nil
	Air Filter combination	3000 3/8"	Semi-Automatic Type
	B series	4000 1/2"	D Automatic Type
	Air Filter combination		

Symbol



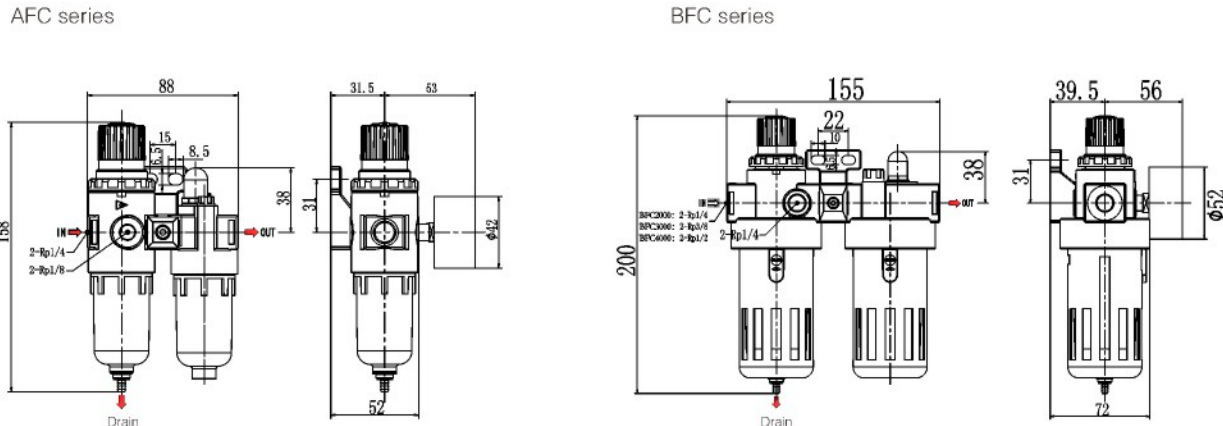
Product feature

- 1. The structure is delicate and compact, which is convenient for installation and application .
- 2.The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
- 3.The pressure loss is low and efficiency of water separating is high.
- 4.The quantity of oil dripping can be directly observed through transparent check-dome.

Technical Specification

Model		AFC2000	BFC2000	BFC3000	BFC4000
Working Medium		Air			
Port Size		PT1/4"	PT1/4"	PT3/8"	PT1/2"
Filter Precision		40 μ m Or 5 μ m			
Range of Regulation		Automatic and Semi-Automatic:0.15–0.9MPa			
Max. operating pressure		1.0MPa			
Proof Pressure		1.5MPa			
Temperature Range		–5~60℃(Not Frozen)			
Water Cup Capacity		15CC	60CC		
Oil Cup Capacity		25CC	90CC		
Suggested Lubricating Oil		Turbine No. 1 Oil(ISO VG32)			
Weight(kg)		0.44kg	1.06kg		
Components	Filter–regulator	AFR2000	BFR2000	BFR3000	BFR4000
	Lubricator	AL2000	BL2000	BL3000	BL4000

Dimension(mm)



A/B Series Air filter



Order Code

BF		2000	-	M	
Series		Port Size		Drain Mode	
AF	A series	2000	1/4"	Nil	Semi-Automatic Type
	Air Filter	3000	3/8"	M	Manual Type
BF	B series	4000	1/2"	D	Automatic Type
	Air Filter				

Symbol



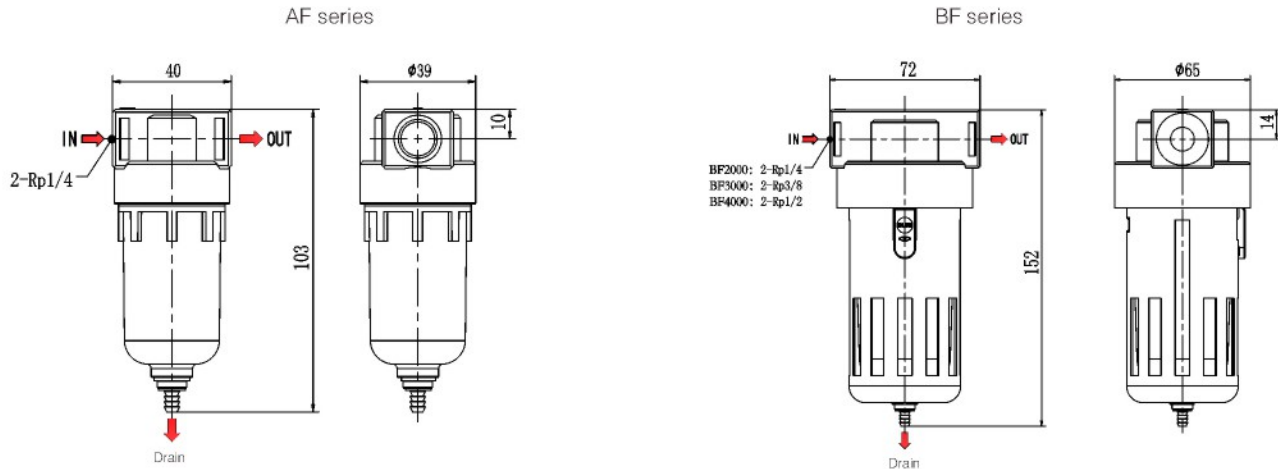
Product feature

- AF series
- BF series
1. The structure is delicate and compact, which is convenient for installation and application .
- 2.The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.

Technical Specification

Model	AF2000	BF2000	BF3000	BF4000
Working Medium	Air			
Port Size	PT1/4"	PT1/4"	PT3/8"	PT1/2"
Filter Precision	40 μ m Or 5 μ m			
Pressure Range	Automatic and Semi-Automatic:0.15-1.0MPa(20-145Psi)			
Proof Pressure	1.5MPa(215Psi)			
Temperature Range	-5~60℃(Not Frozen)			
Water Cup Capacity	15CC	60CC		
Weight(kg)	0.12kg	0.42kg		

Dimension(mm)



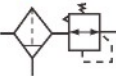
A/B Series Air filter-regulator



Order Code

BFR		2000	-	□	
Series		Port Size		Drain Mode	
AFR	A series	2000	1/4"	Nil	Semi-Automatic Type
	Filter-regulator	3000	3/8"	D	Automatic Type
BFR	B series	4000	1/2"		
	Filter-regulator				

Symbol



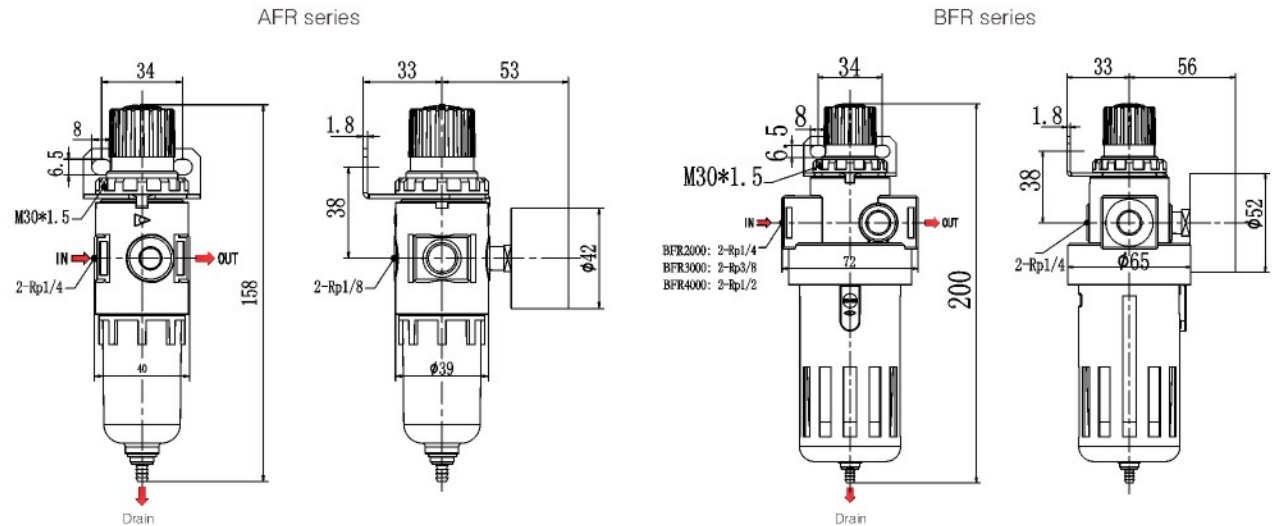
Product feature

1. The structure is delicate and compact, which is convenient for installation and application .
- 2.The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
- 3.The pressure loss is low and efficiency of water separating is high.
- 4.The quantity of oil dripping can be directly observed through transparent check-dome.

Technical Specification

Model	AFR2000	BFR2000	BFR3000	BFR4000
Working Medium	Air			
Port Size	PT1/4"	PT1/4"	PT3/8"	PT1/2"
Filter Precision	40 μ m Or 5 μ m			
Range of Regulation	Automatic and Semi-Automatic:0.15–0.9MPa(20–130Psi)			
Max. operating pressure	1.0MPa(145Psi)			
Proof Pressure	1.5MPa(215Psi)			
Temperature Range	–5~60°C(Not Frozen)			
Water Cup Capacity	15CC	60CC		
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)			
Weight(kg)	0.3kg	0.6kg		

Dimension(mm)



A/B Series Air Regulator

Order Code



BR		2000	
Series	AR	A series	2000 1/4"
	Regulator	3000	3/8"
BR	B series	4000	1/2"
	Regulator		

Symbol



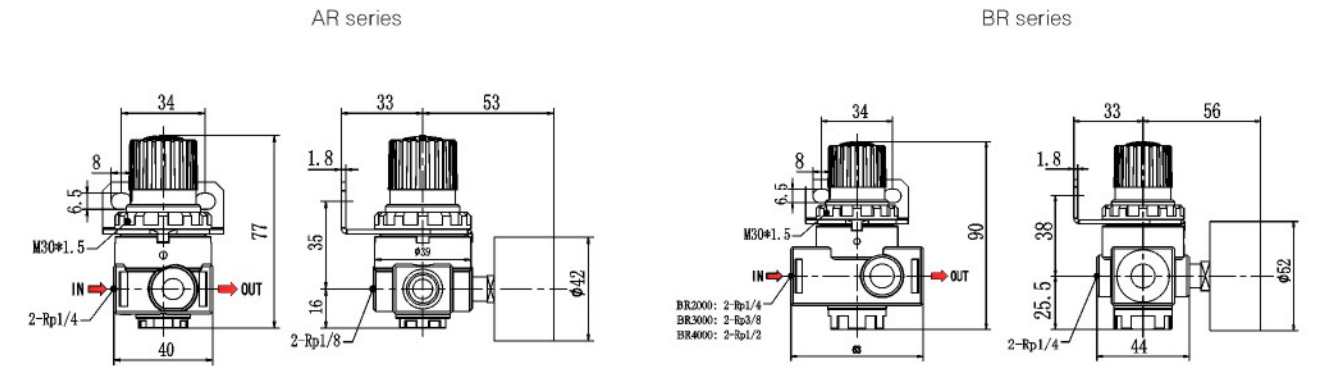
Product feature

- 1. The structure is delicate and compact, which is convenient for installation and application .
- 2.The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
- 3.The pressure loss is low and efficiency of water separating is high.

Technical Specification

Model	AR2000	BR2000	BR3000	BR4000
Working Medium	Air			
Port Size	PT1/4"	PT1/4"	PT3/8"	PT1/2"
Pressure Range	0.05–0.9MPa			
Max. operating pressure	1.0MPa			
Proof Pressure	1.5MPa			
Temperature Range	–5~60℃(Not Frozen)			
Weight(kg)	0.22kg	0.34kg		

Dimension(mm)



A/B Series Lubricator

Order Code



AL		2000	
Series	AL	A series	2000 1/4"
	Lubricator	3000	3/8"
BL	B series	4000	1/2"
	Lubricator		

Symbol



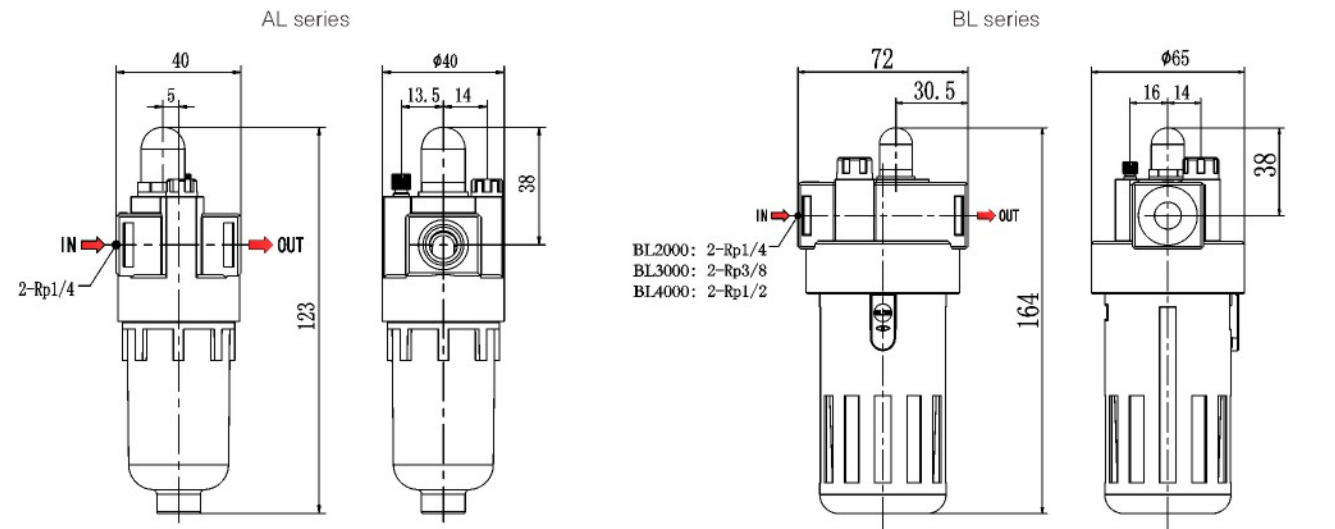
Product feature

- 1. The structure is delicate and compact, which is convenient for installation and application .
- 2.The quantity of oil dripping can be directly observed through transparent check-dome.
- 3.The pressure loss and the flow of mist is low

Technical Specification

Model	AL2000	BL2000	BL3000	BL4000
Working Medium	Air			
Port Size	PT1/4"	PT1/4"	PT3/8"	PT1/2"
Pressure Range	0.05–1.0MPa			
Proof Pressure	1.5MPa			
Temperature Range	–5~60℃(Not Frozen)			
Oil Cup Capacity	25CC	90CC		
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)			
Weight(kg)	0.17kg	0.44kg		

Dimension(mm)



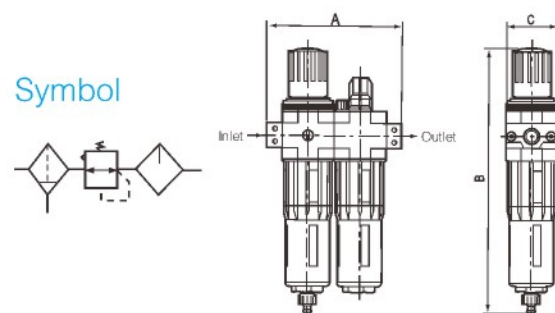
FRC Series FR.L combination



Dimension (mm)

Model	A	B	C
FRC-MIDI-02	140	268	55
FRC-MIDI-03			
FRC-MIDI-04			
FRC-MINI-01	104	210	40
FRC-MINI-02			
FRC-MINI-03			

Symbol



Technical Specification

Model	Components		Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
	Filter-Regulator	Lubricator					
FRC-MINI	01	LFR-MINI	1/8"	40 μm	700	0.15~1.2	Manual drain type Ambient Temperature: -5~60°C(Not Frozen) Suggested Lubricating Oil □ Turbine No. 1 Oil(ISO VG32) Optional filter accuracy 5 μm
	02		1/4"		1000		
	03		3/8"		1200		
FRC-MIDI	02	LFR-MIDI	1/4"		1500		
	03		3/8"		2000		
	04		1/2"		2600		

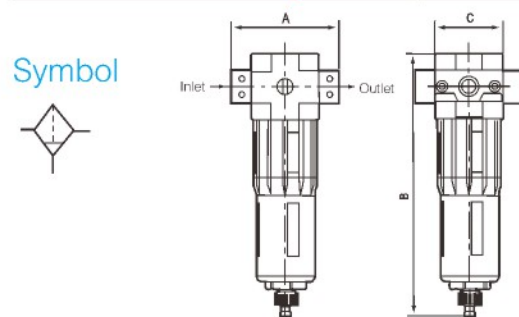
LF Series Air filter



Dimension (mm)

Model	A	B	C
LF-MIDI-02	85	195	55
LF-MIDI-03			
LF-MIDI-04			
LF-MINI-01	64	161	40
LF-MINI-02			
LF-MINI-03			

Symbol



Technical Specification

Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
LF-MINI	01	40 μm	1000	0.15~1.2	Manual drain type Ambient Temperature: -5~60°C(Not Frozen) Optional filter accuracy 5 μm
	02		1200		
	03		1400		
LF-MIDI	02		1900		
	03		2700		
	04		3000		

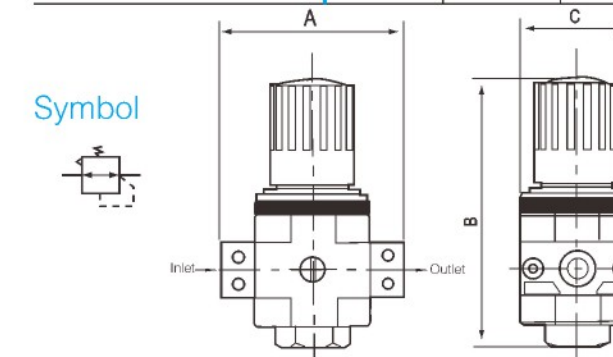
LR Series Air Regulator



Dimension (mm)

Model	A	B	C
LR-MIDI-02	85	128	55
LR-MIDI-03			
LR-MIDI-04			
LR-MINI-01	64	96	40
LR-MINI-02			
LR-MINI-03			

Symbol



Technical Specification

Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
LR-MINI	01	1000	0.15~1.2	Ambient Temperature: -5~60°C(Not Frozen)
	02	1600		
	03	1800		
LR-MIDI	02	2200		
	03	3300		
	04	4000		

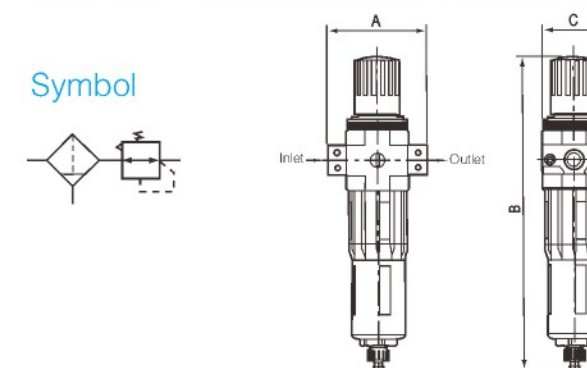
LFR Series Air filter-regulator



Dimension(mm)

Model	A	B	C
LFR-MIDI-02	85	268	55
LFR-MIDI-03			
LFR-MIDI-04			
LFR-MINI-01	64	210	40
LFR-MINI-02			
LFR-MINI-03			

Symbol



Technical Specification

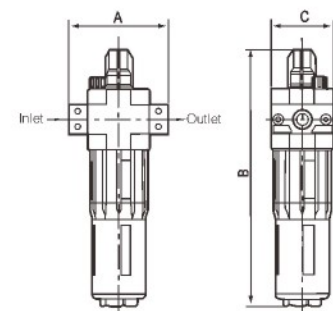
Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
LFR-MINI	01	40 μm	750	0.15~1.2	Manual drain type Ambient Temperature: -5~60°C(Not Frozen) Optional filter accuracy 5 μm
	02		1400		
	03		1600		
LFR-MIDI	02		2000		
	03		3100		
	04		3400		

LOE Series Lubricator



Dimension (mm)

Model	A	B	C
LOE -MIDI-02	85	208	55
LOE -MIDI-03			
LOE -MIDI-04			
LOE -MINI-01	64	169	40
LOE -MINI-02			
LOE -MINI-03			



Symbol



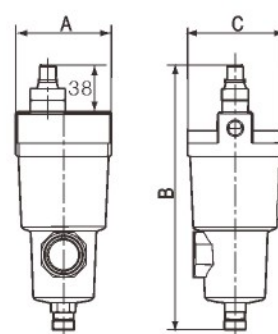
Technical Specification

Model		Port Size Rp(PT)	Max. Flow L/min(ANR)	Min.Flow L/min	Pressure Range MPa	Options/Description
LOE-MINI	01	1/8"	1300	3	0.15~1.2	Ambient Temperature: -5~60°C(Not Frozen) Suggested Lubricating Oil: Turbine No. 1 Oil(ISO VG32)
	02	1/4"	2300			
	03	3/8"	2700			
LOE-MIDI	02	1/4"	2800	8		
	03	3/8"	5500			
	04	1/2"	6100			

AMD Series Micro Mist Separator
AMG Series Water Separator

Dimension (mm)

TYPE	A	B(with T)	C
AMD150-01/02	63	195	67
AMD250-02/03	76	210	76
AMD350-03/04	90	240	90
AMD450-04/06	105	263	105
AMD550-06/10	122	295	122



Technical Specification

Model		Filter Port	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
AMD/AMG150	01/02	0.01 μm (Remove 95%)	1/8 / 1/4 "	200	0.15~0.85	Manual drain type D automatic drain type T select with indictator Ambient Temperature: -5~60℃(Not Frozen) Bracket: BM51-BM55 optional
	03		3/8 "			
AMD/AMG250	02/03		1/4 / 3/8 "	500		
	04		1/2 "			
AMD/AMG350	03/04		3/8 / 1/2 "	1000		
AMD/AMG450	04/06		1/2 / 3/4 "	2000		
AMD/AMG550	06/10		3 / 4 / 1"	3500		

When the flow is lower than 300L/min, please be sure to select normal closed type, the auto drain may always keep haust if select normal opened type.

AMDC/AMGC Series
F.F.R combination

Order Code

AMDC	2000	2	T	D
Series	Body Size	Port Size	Indicator	Type
AMDC	Micro Mist Separator	2000 02 3000 03	Blank	Without indicator
AMGC	Water Separator	4000 04 5000 06 10	T	With indicator
				Drain Mode
				Blank Manual drain type
				D Automatic drain type

Technical Specification

Technical Specification	Port size	Filter Port	Proof pressure Mpa	Pressure Range Mpa	Options/Description
AMDC/AMDG2000-02	G1/4	0.01μm	1.5	0.15-0.85	Manual drain type(Standard closed type)
AMDC/AMDG3000-03	G3/8				D automatic drain type(Normal Opened type)
AMDC/AMDG4000-04	G1/2				T select with indicator
AMDC/AMDG4000-06	G3/4				Ambient Temperature: -5~60°C
AMDC/AMDG5000-10	G1				

Model	Port size	A	B	C	D	E	F	H	J	K	L
AMDC/AMDG2000-02	G1/4	194.5	163.5	63	159.5	56	63	70	18	35	6
AMDC/AMDG3000-03	G3/8	235	195.5	76	173	66	76	84	21	40	6
AMDC/AMDG4000-04	G1/2	286	227	90	204	80	90	100	25	49.5	7
AMDC/AMDG4000-06	G3/4	326	245	105.5	226.5	8	105.5	110	35	54.6	φ 15
AMDC/AMDG5000-10	G1	381.5	285	122	258.5	100	122.5	130	36	64.8	8.5

AMDC/AMGC Series
F.R combination

Order Code

AMDC	2000	2	T	D
Series	Body Size	Port Size	Indicator	Type
AMDC	Micro Mist Separator	2010 02 3010 03	Blank	Without indicator
AMGC	Water Separator	4010 04 5010 06 10	T	With indicator
				Drain Mode
				Blank Manual drain type
				D Automatic drain type

Technical Specification

Technical Specification	Port size	Filter Port	Proof pressure Mpa	Pressure Range Mpa	Options/Description
AMDC/AMDG2000-02	G1/4	0.01μm	1.5	0.15-0.85	Manual drain type(Standard closed type)
AMDC/AMDG3000-03	G3/8				D automatic drain type(Normal Opened type)
AMDC/AMDG4000-04	G1/2				T select with indicator
AMDC/AMDG4000-06	G3/4				Ambient Temperature: -5~60°C
AMDC/AMDG5000-10	G1				

Model	Port size	A	B	C	D	E	F	H	J	K	L
AMDC/AMDG2000-02	G1/4	194.5	163.5	63	159.5	56	63	70	18	35	6
AMDC/AMDG3000-03	G3/8	235	195.5	76	173	66	76	84	21	40	6
AMDC/AMDG4000-04	G1/2	286	227	90	204	80	90	100	25	49.5	7
AMDC/AMDG4000-06	G3/4	326	245	105.5	226.5	8	105.5	110	35	54.6	φ 15
AMDC/AMDG5000-10	G1	381.5	285	122	258.5	100	122.5	130	36	64.8	8.5

IR Series Precision Regulator

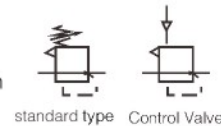
Specifications

Sensitivity	within 0.2% of full span
Repeatability	within $\pm 0.5\%$ of full span
Air consumption	IR2000 MAX flow rate 3.5L/min(ANR) under 1.0MPa pressure IR3000 Exhaust hole max flow rate 3L/min (ANR) under Max setting pressure
Ambient Temperature	-5~60°C(Not Frozen)
Max. operating pressure	1.0MPa
Pressure Gauge Port Size	G1/8

Product feature

small volume, light weight
Regulating screw space width is 0.5MM
Accurate Pressure setting
Install convenience , it can install with bracket separately , or install with modular air filter combine components AF an AFM directly

Symbol

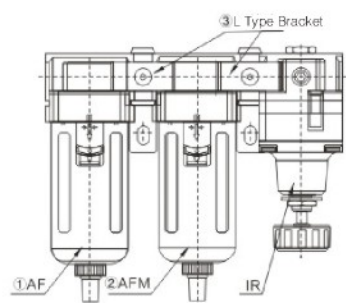


Order Code

IR	3	0	0	0	-	□	02	G	-	R
Series Code Precision Regulator				Pressure Range		Pipe Thread Type		Accessories		Remark
				IR1000/2000 series setting		R N blank	G NPT Rc	Blank B G	Without With Bracket With Gauge	
		Set Type					Port Size			
Body Size		0	1	IR3000 Series Setting	Bracket Code		01 02 03 04	1/8(ONLY IR1000) 1/4(ONLY IR2, 3000) 3/8(ONLY IR3000) 1/2(ONLY IR3000)		Blank R
1 IR1000 Series		Basic Model (manual)		0 0.01~0.2MPa	Nil					
2 IR2000 Series		Control Valve		1 0.01~0.4MPa	With Bracket					
3 IR3000 Series		(ir2000,ir3000 Series)		2 0.01~0.8MPa	Without Bracket					
										Note: The Standard Mounting Position Should Be In Side On The Left, Out Side On The Right ; Pressure Gauge And Label In Front And Back, And Mounting Bracket Back .

Technical Specification

Model	Basic Model		
	IR10□0	IR20□0	IR30□0
Max supply pressure	MAX.1.0MPa		
Min supply pressure	Set Pressure +0.05MPa		
Pressure Range	IR1000:0.005~0.2MPa IR1010:0.01~0.4MPa IR1020:0.01~0.8MPa	IR2000:0.005~0.2MPa IR2010:0.01~0.4MPa IR2020:0.01~0.8MPa	IR3000:0.01~0.2MPa IR3010:0.01~0.4MPa IR3020:0.01~0.8MPa
Input signal pressure	-		
Sensitivity	within 0.2% of full span		
Repeatability	within $\pm 0.5\%$ of full span		
Straightness	-		
Air consumption (Supply pressure)	4.4L/min(ANR)within	4.4L/min(ANR)within	11.5L/min(ANR)within
Port Size	Rc1/8	Rc1/4	Rc1/4,3/8,1/2
Pressure Gauge Port Size	Rc1/8(2point)		
Environment And Fluid Temperature	-5~60°C(Not Frozen)		
Weight(kg)	0.36kg	0.44kg	0.88kg

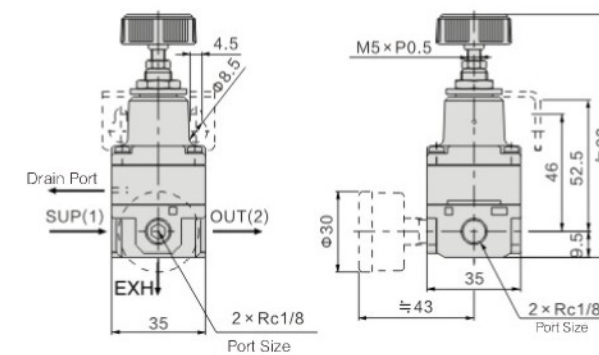
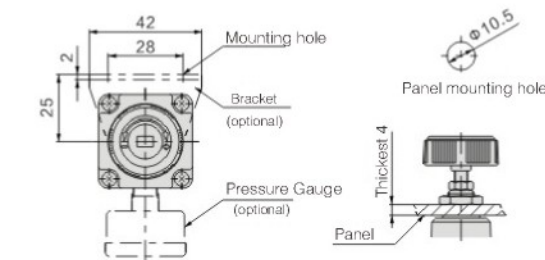


Install In Modular Air Filter Combine Components

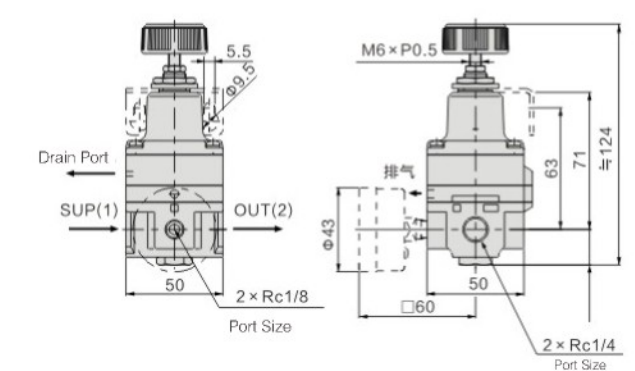
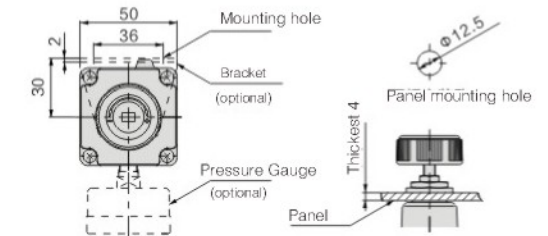
Applicable Products And Accessories	Applicable Models	
	IR20□0	IR30□0
① Air Filter	AF2000	AF3000
② Air lubricator	AFM2000	AFM3000
③ L Type Bracket	B210L	B310L
④ T Type Bracket	B210T	B310T
⑤ Spacer	Y20	Y30
⑥ L shape bracket spacer	Y20L	Y30L
⑦ T shape bracket spacer	Y20T	Y30T

Dimension (mm)

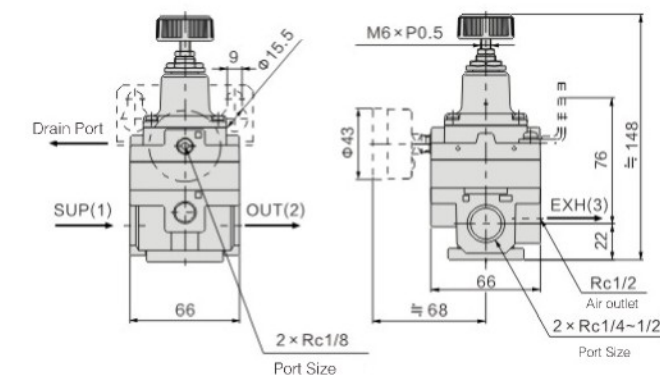
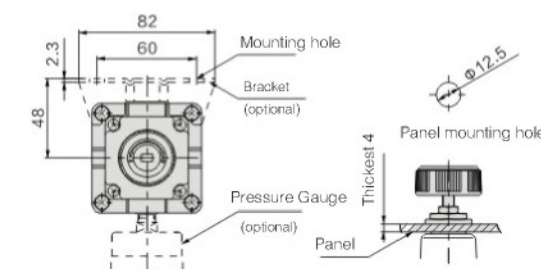
IR10□0-01



IR20□0-01



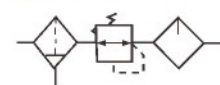
IR30□0-0□



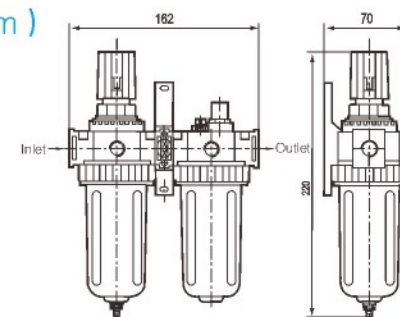
SFC Series Two-point combination



Symbol



Dimension (mm)



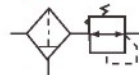
Technical Specification

Model	Components		Port Size Rp(PT)	Filter Accuracy	Proof pressure MPa	Pressure Range MPa	Options/Description
	Filter-Regulator	Lubricator					
SFC-200	SFR-200	SL-200	1/4"	40 μm	1.5	0.15~0.85	Ambient Temperature: -5~60°C(Not Frozen) Environment current temperature: Turbine No. 1 Oil(ISO VG32) Optional filter accuracy 5
SFC-300	SFR-300	SL-300	3/8"				
SFC-400	SFR-400	SL-400	1/2"				

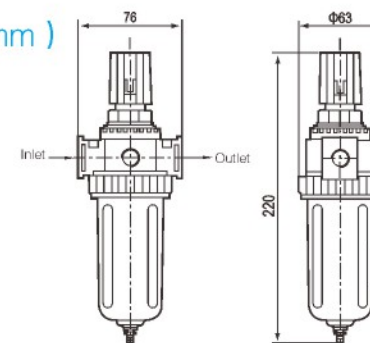
SFR Series Air filter-regulator



Symbol



Dimension (mm)



Technical Specification

Model	Port Size Rp(PT)	Filter Accuracy	Proof pressure MPa	Pressure Range MPa	Options/Description
SFR-200	1/4"	40 μm	1.5	0.15~0.85	Ambient Temperature: -5~60°C(Not Frozen) Environment current temperature: Turbine No. 1 Oil(ISO VG32) Optional filter accuracy 5
SFR-300	3/8"				
SFR-400	1/2"				

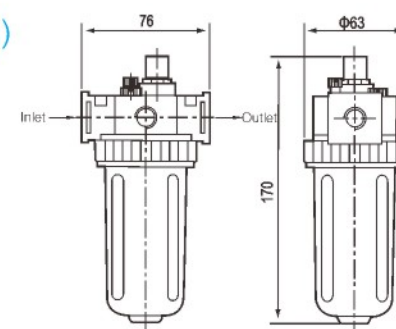
SL Series Lubricator



Symbol



Dimension(mm)



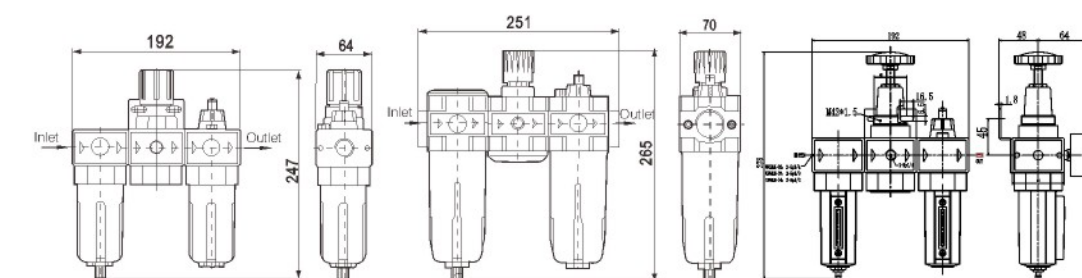
Technical Specification

Model	Port Size Rp(PT)	Oil drop amount L/min(ANR)	Proof pressure MPa	Pressure Range MPa	Options/Description
SL-200	1/4"	0~30	1.5	0.15~0.85	Environment current temperature: -5~60°C(Not Frozen)
SL-300	3/8"	0~40			
SL-400	1/2"	0~45			

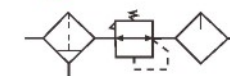
UFRL Series Three-point combination



Dimension (mm)



Symbol



UFRL-02/03/04

UFRL-06/08

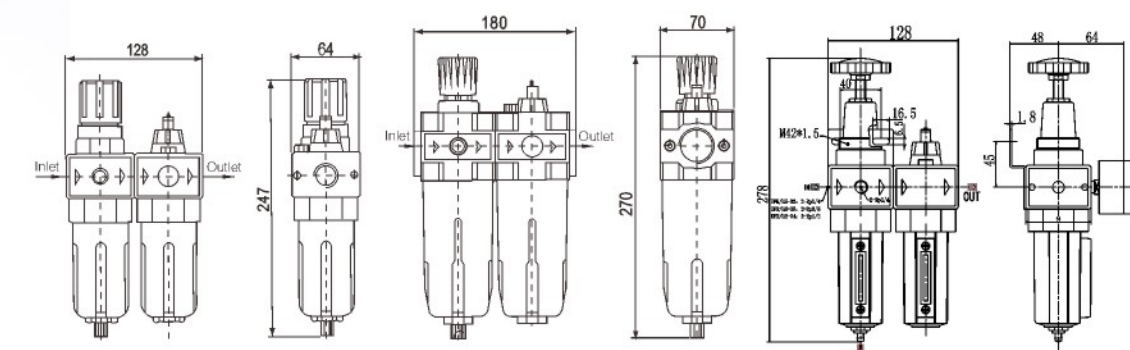
Technical Specification

Model	Components			Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
	Filter	Regulator	Lubricator				
UFRL-02	UF-02	UR-02	UL-02	1/4"	2080	0.15~0.85	Semi-Automatic Type(standard type) D:Automatic Type H: High pressure series Ambient Temperature: -5~60°C(Not Frozen) Suggested Lubricating Oil: Turbine No. 1 Oil(ISO VG32)
UFRL-03	UF-03	UR-03	UL-03	3/8"	2100		
UFRL-04	UF-04	UR-04	UL-04	1/2"	2600		
UFRL-06	UF-06	UR-06	UL-06	3/4"	7940		
UFRL-08	UF-08	UR-08	UL-08	1"	8200		

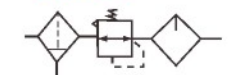
UFR/L Series Two-point combination



Dimension (mm)



Symbol



UFR/L-02/03/04

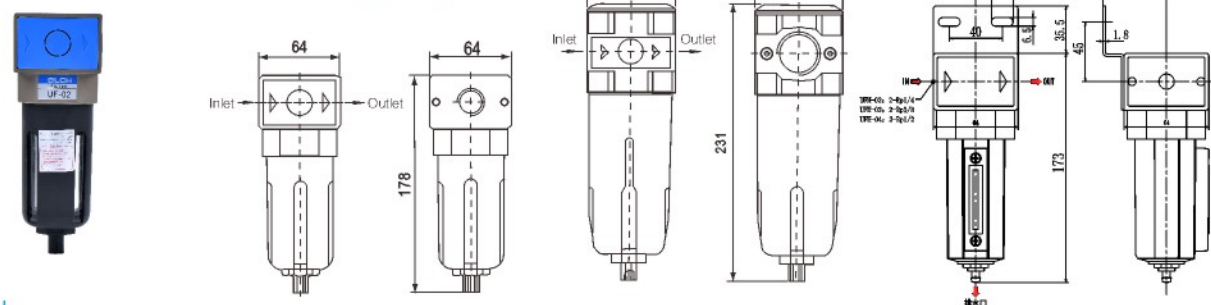
UFR/L-06/08

Technical Specification

Model	Components		Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
	Filter-Regulator	Lubricator				
UFR/L-02	UFR-02	UL-02	1/4"	2080	0.15~0.85	Semi-Automatic Type(standard type) D:Automatic Type H: High pressure series Ambient Temperature: -5~60°C(Not Frozen) Suggested Lubricating Oil: Turbine No. 1 Oil(ISO VG32)
UFR/L-03	UFR-03	UL-03	3/8"	2100		
UFR/L-04	UFR-04	UL-04	1/2"	2600		
UFR/L-06	UFR-06	UL-06	3/4"	7940		
UFR/L-08	UFR-08	UL-08	1"	8200		

UF Series Air filter

Dimension (mm)



Symbol

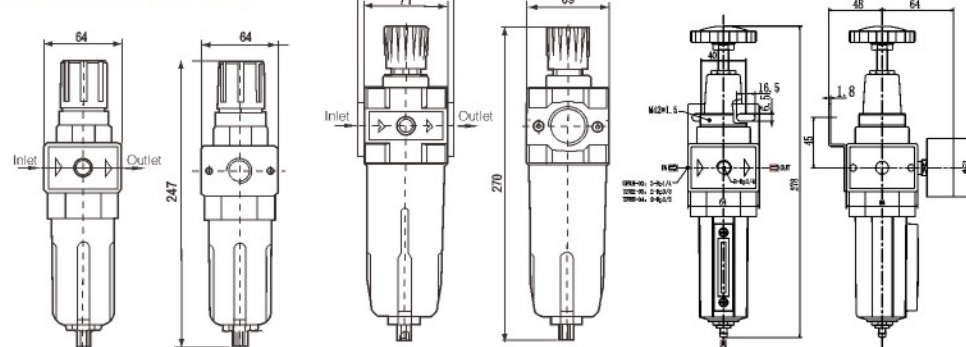


Technical Specification

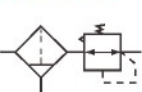
Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
UF-02	1/4"	40 μm	2440	0.15~0.85	Semi-Automatic Type(standard type) D:Automatic Type H: High pressure series Suggested Lubricating Oil: Turbine No. 1 Oil(ISO VG32)
UF-03	3/8"		2450		
UF-04	1/2"		3030		
UF-06	3/4"		8250		
UF-08	1"		8860		

UFR Series Air filter-regulator

Dimension (mm)



Symbol

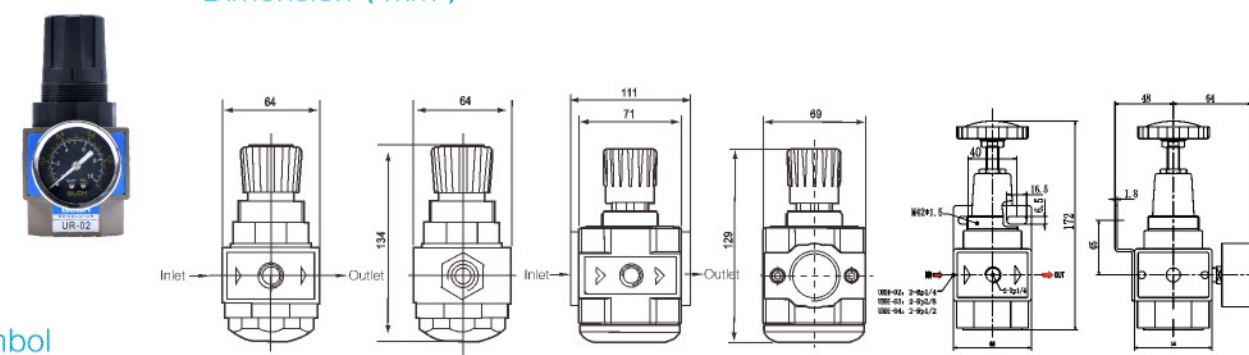


Technical Specification

Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
UFR-02	1/4"	40 μm	2080	0.15~0.85	Semi-Automatic Type(standard type) D:Automatic Type H: High pressure series Suggested Lubricating Oil: Turbine No. 1 Oil(ISO VG32)
UFR-03	3/8"		2100		
UFR-04	1/2"		2600		
UFR-06	3/4"		7940		
UFR-08	1"		8200		

UR Series Air filter-regulator

Dimension (mm)



Symbol

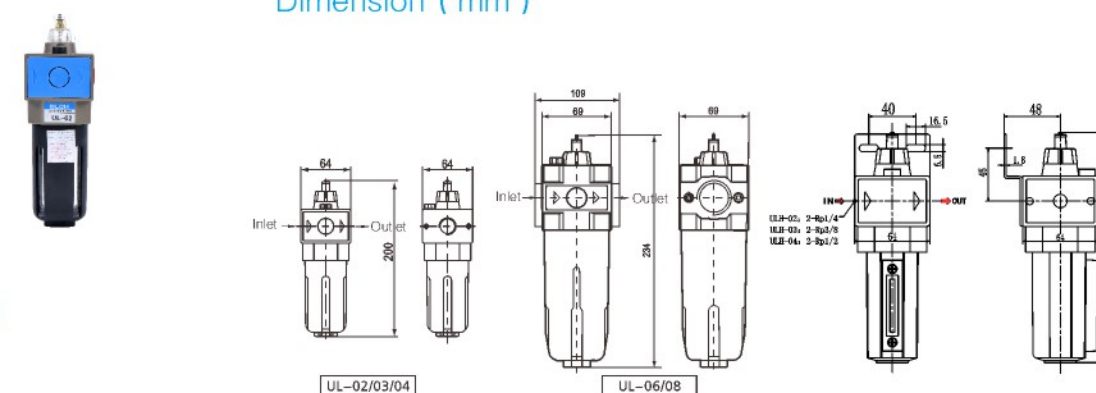


Technical Specification

Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
UR-02	1/4"	2100	0.15~0.85	Semi-Automatic Type(standard type) D:Automatic Type H: High pressure series Ambient Temperature: -5~60°C(Not Frozen)
UR-03	3/8"	2130		
UR-04	1/2"	2750		
UR-06	3/4"	8000		
UR-08	1"	8500		

UL Series Lubricator

Dimension (mm)



Symbol



Technical Specification

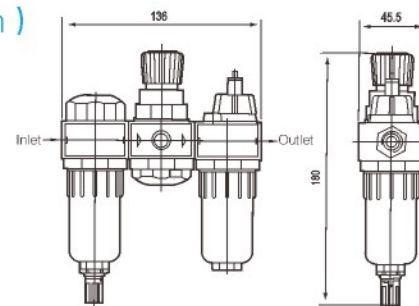
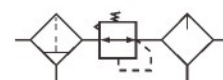
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
UL-02	1/4"	2490	0.15~0.85	H: High pressure series Ambient Temperature: -5~60°C(Not Frozen) Suggested Lubricating Oil: Turbine No. 1 Oil(ISO VG32)
UL-03	3/8"	2525		
UL-04	1/2"	4310		
UL-06	3/4"	8400		
UL-08	1"	9000		

FRL700A Three-point combination



Dimension (mm)

Symbol



Technical Specification

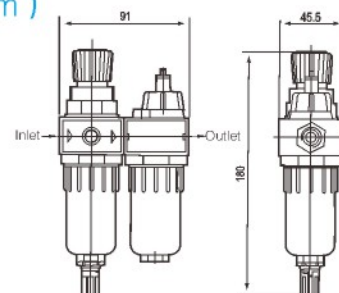
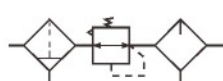
Model	Components			Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
	Filter	Regulator	Lubricator				
FRL700A-01	F200A	R200A	L200A	1/8"	1850	0.15~0.85	Semi-Automatic Type(standard type) Ambient Tem peratur: -5~60°C(Not Frozen) Suggested Lubricating Oil: Turbine No. 1 Oil(ISO VG32)
FRL700A-02	F200A	R200A	L200A	1/4"	1850		

FRL600A Two-point combination



Dimension (mm)

Symbol



Technical Specification

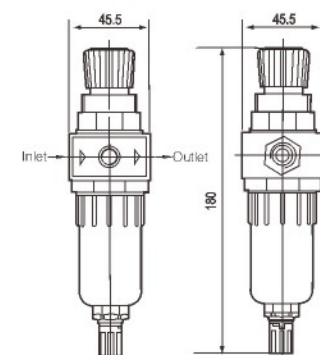
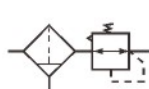
Model	Components		Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
	Filter-Regulator	Lubricator				
FRL600A-01	FR500A	L200A	1/8"	1650	0.15~0.85	Semi-Automatic Type(standard type) Ambient Tem peratur: -5~60°C(Not Frozen)
FRL600A-02	FR500A	L200A	1/4"	1850		

FR500A Air filter-regulator



Dimension (mm)

Symbol



Technical Specification

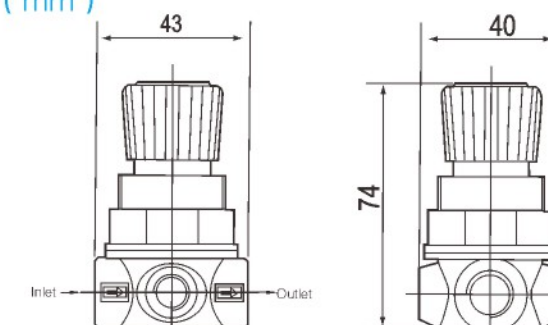
Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
FR500A-01	1/8"	40 μm	1840	0.15~0.85	Semi-Automatic Type(standard type) Optional filter accuracy 5 Ambient Tem peratur: -5~60°C(Not Frozen)
FR500A-02	1/4"		1940		

NR200/R200 Air Regulator

Dimension (mm)



Symbol



Technical Specification

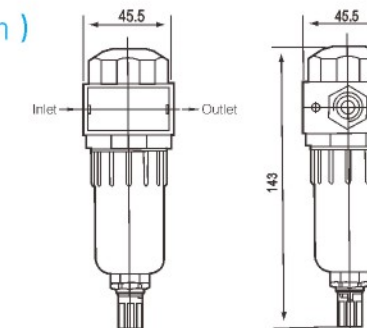
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
NR200-02	1/4"	550	0.15~0.85	B installed fixed frame G with pressure gauge Ambient Tem peratur: -5~60°C(Not Frozen) CU safety valve, when the pressure is higher than the set pressure, automatic pressure relief
NR200-CU	1/4"	1000		
R200-02	1/4"	1200		

F200A Air filter

Dimension (mm)



Symbol



Technical Specification

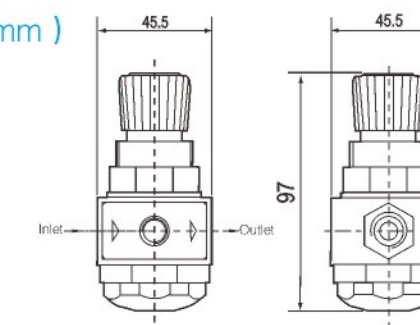
Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
F200A-01	1/8"	40 μm	1900	0.15~0.85	Semi-Automatic Type(standard type) Optional filter accuracy 5 Ambient Tem peratur: -5~60°C(Not Frozen)
F200A-02	1/4"		1900		

R200A Air Regulator

Dimension (mm)



Symbol



Technical Specification

Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
R200A-02	1/4"	1546	0.15~0.85	B installed fixed frame G with pressure gauge Ambient Tem peratur: -5~60°C(Not Frozen)

4000-5000 Explosion proof aluminum cup

SHAKO Series Aluminum cup

BP Series Automatic drain



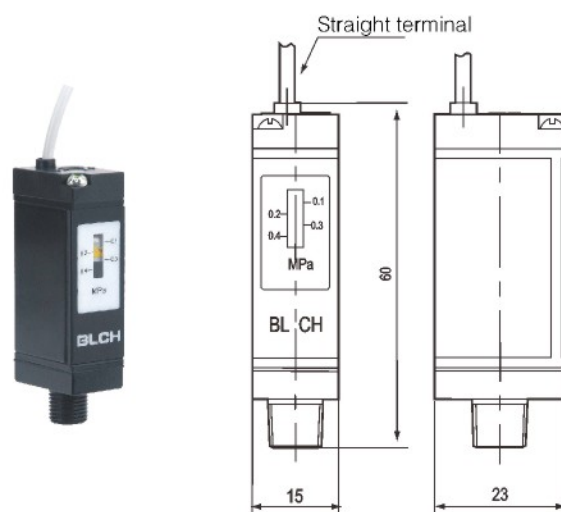
Product feature

- 1.Can replace the traditional PC cups
- 2.Applicable for PH and corrosive high places
- 3.Equipped with a safety catch and glass observation tube
- 4.4mm thickness design than the traditional PC cups of strong resistance to pressure, to ensure the safety of personnel and equipment
- 5.Removing easy to install, easy to clean

Product feature

- 1.Active cleaning of water and oil in air pipeline, prolong the service life of air parts
- 2.No need to plug in, Light weight shape, Easy to install without space constraints
- 3.Operating pressure
- 4.Operating water volume: 10-15cc/time

IS1000 Series Pressure switch

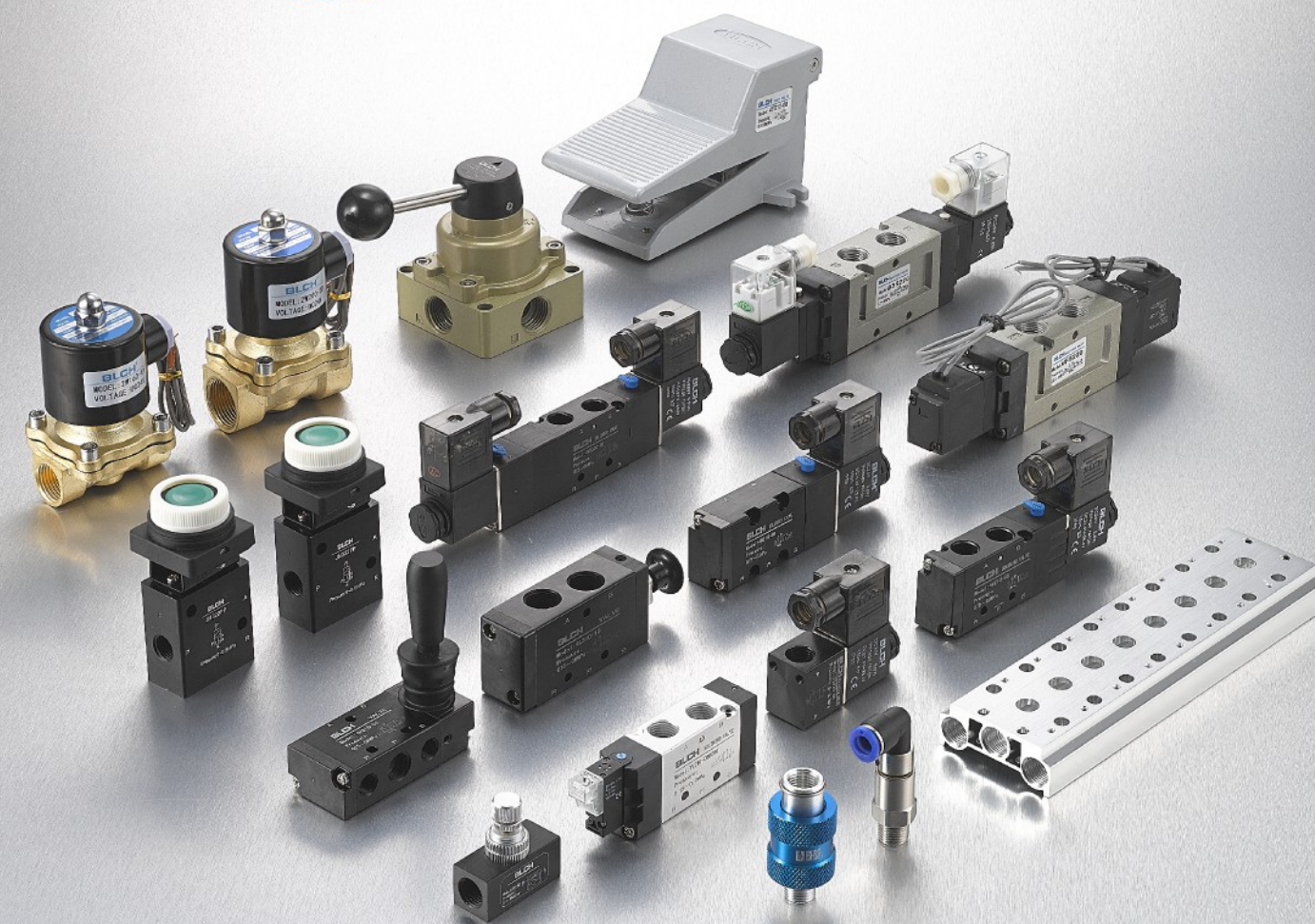


Technical Specification

Model	IS1000-01
Proof Pressure	1Mpa(10kgf/cm ²)
Max. operating pressure	0.7Mpa(7kgf/cm ²)
Setting pressure range	0.1~0.4Mpa(1~4kgf/cm ²)
Pressure difference	0.8kgf/cm ² within
Contact	1a
Electrical current temperature	Direct line type
Fluid	Air
Ambient Temperature	-5~60°C(Not Frozen)
Port Size	Rp(PT)1/8(Male thread)

Pressure switch feature

Maximum capacity of contacts	2VAC, 2WDC		
Voltage	24VAC, DC within	48VAC, DC	100VAC, DC
Maximum current	50mA	40mA	20mA
Vibration resistance	30G		



3V series Solenoid Valve

Symbol



Technical Specification

Model		Port Size Rc(G)	Coil and Positions	Ways	Pressure Range MPa
3V1	M5	M5	Single coil double positions	3/2 way	0.15~0.8
	06	1/8 "			
3V110	M5	M5	Single coil double positions		
	06	1/8 "			
3V120	M5	M5	Double coils double positions		
	06	1/8 "			
3V210	06	1/8 "	Single coil double positions		
	08	1/4 "			
3V220	06	1/8 "	Double coils double positions		
	08	1/4 "			
3V310	08	1/4 "	Single coil double positions		
	10	3/8 "			
3V320	08	1/4 "	Double coils double positions		
	10	3/8 "			
3V410	10	3/8 "	Single coil double positions		
	15	1/2 "			
3V420	10	3/8 "	Double coils double positions		
	15	1/2 "			

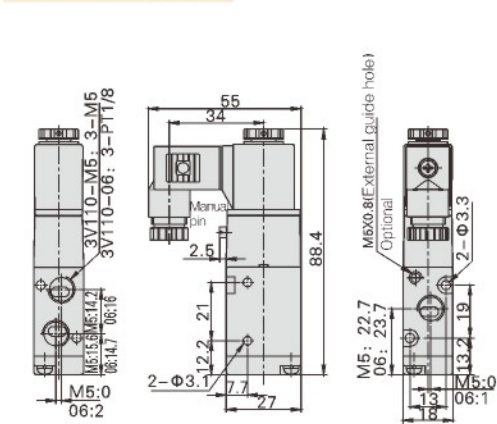
Order Code

3V 2 10 08 NO □ □ □

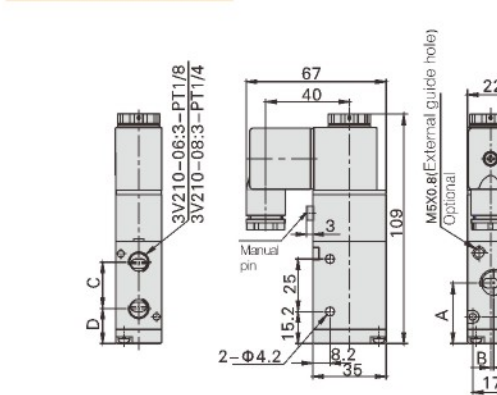
model code	Series	Electric control mode	Port Size	Initial state	Voltage	Connecting Type	Port Size
3V:3/2 way	1.100 series 2.200 series 3.300 series 4.400 series	10:Double positions single electric control	M5 M5	NC:Normally closed type NO:Normally open type	A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V	NIL:Plug Type I:Wiring type	Nil:G Port PT Port NPT
			06 1/8"				
		20:Double positions double electric control	08 1/4"				
			10 3/8"				
			15 1/2"				

Dimension (mm)

3V110DIN Plug Type

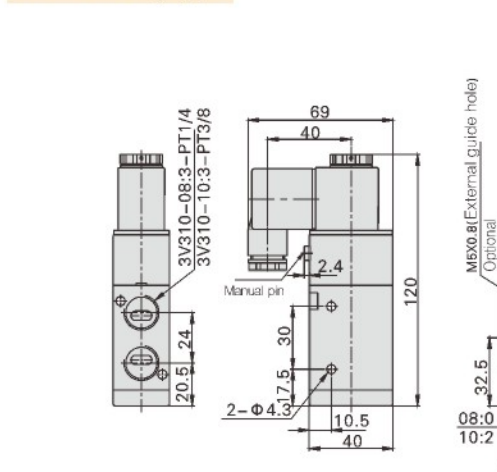


3V210DIN Plug Type

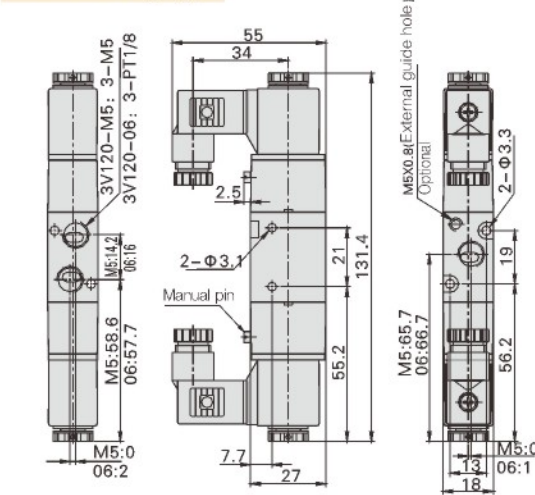


Symbol/type	3V210-06	3V210-08
A	27.7	28.7
B	0	1.5
C	22	22.5
D	16.7	16.5

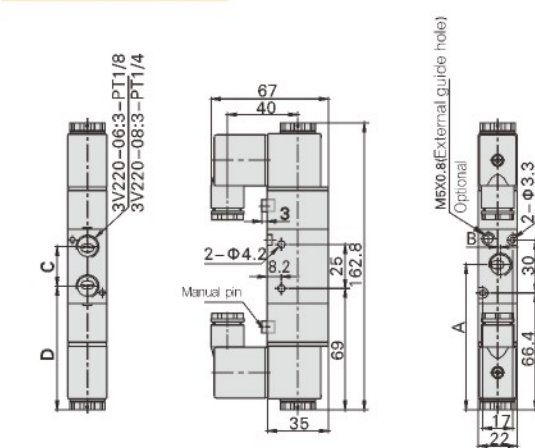
3V310DIN Plug Type



3V120DIN Plug Type

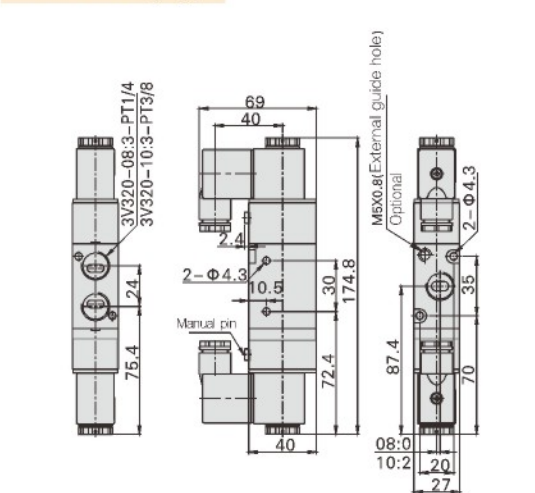


3V220DIN Plug Type



Symbol/type	3V220-06	3V220-08
A	81.4	82.4
B	0	1.5
C	22	22.5
D	70.4	70.2

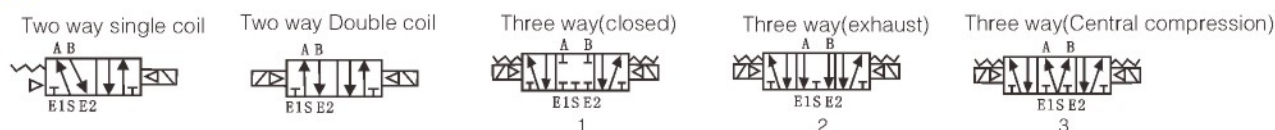
3V320DIN Plug Type



4V series Solenoid Valve



Symbol



Technical Specification

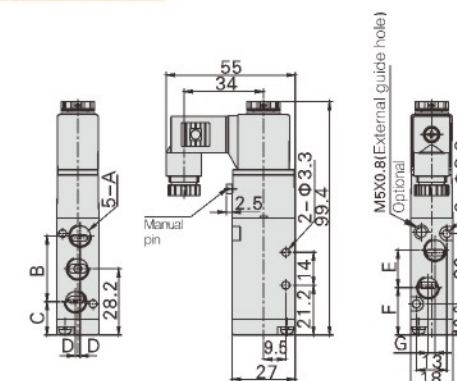
Model		Port Size Rc(G)	Coil And Positions	Ways	Pressure Range MPa
4V110	M5	M5	Single Coil Double Positions	5/2 Way	0.15~0.8
	06	1/8"			
4V120	M5	M5	Double Coils Double Positions	5/2 Way	
	06	1/8"			
4V210	06	1/8"	Single Coil Double Positions	5/2 Way	
	08	1/4"			
4V220	06	1/8"	Double Coils Double Positions	5/2 Way	
	08	1/4"			
4V310	08	1/4"	Single Coil Double Positions	5/2 Way	
	10	3/8"			
4V320	08	1/8"	Double Coils Double Positions	5/2 Way	
	10	1/4"			
4V410	10	3/8"	Single Coil Double Positions	5/2 Way	
	15	1/2"			
4V420	10	3/8"	Double Coils Double Positions	5/2 Way	
	15	1/2"			
4V130	M5	M5	Double Coil Three Positions	5/2 Way	0.15~0.8 C : Closed Type E : Exhaust type P : Pressurized Type
	06	1/8"			
4V230	06	1/8"	Double Coil Three Positions	5/2 Way	
	08	1/4"			
4V330	08	1/8"	Double Coil Three Positions	5/2 Way	
	10	3/8"			
4V430	10	3/8"	Double Coil Three Positions	5/2 Way	
	15	1/2"			

Order Code

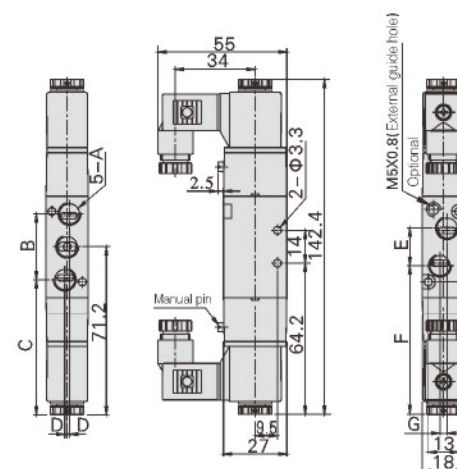
4V 2 10 08 □ □ □						
model code	Series	Electric control mode	Port Size	Voltage	Connecting Type	Port Size
4V: 5/2 way 5/3 way	1.100 series 2.200 series 3.300 series 4.400 series	10:Double positions single electric control 20:Double positions double electric control 30C:Three positions double electric control closed type 30E:Three positions double electric control exhaust type 30P:Three positions double electric control Pressurized type	M5 M5 06 1/8" 08 1/4" 10 3/8" 15 1/2"	A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V	Nil:DIN Plug Type I:Wiring type	Nil:G Port PT Port NPT

Dimension (mm)

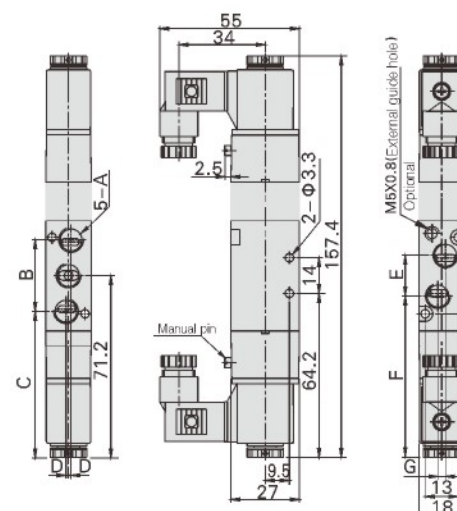
4V110DIN Plug Type



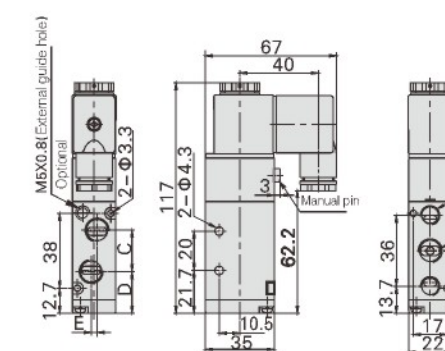
4V120DIN Plug Type



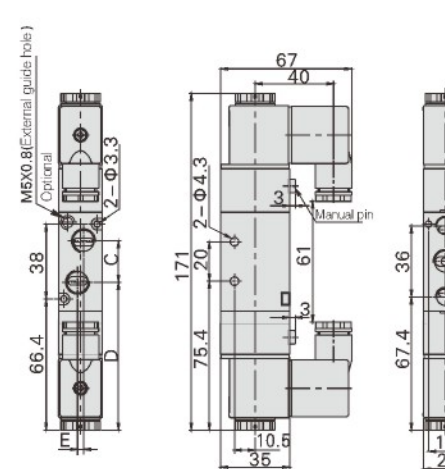
4V130DIN Plug Type



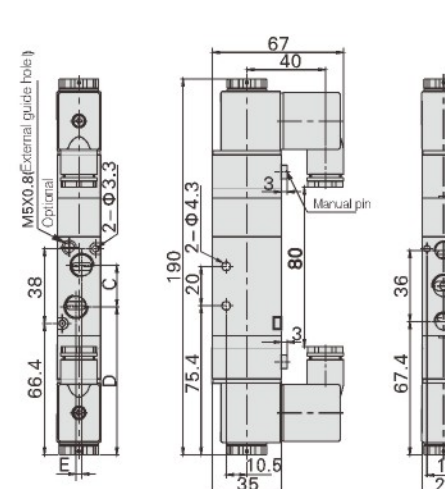
4V210DIN Plug Type

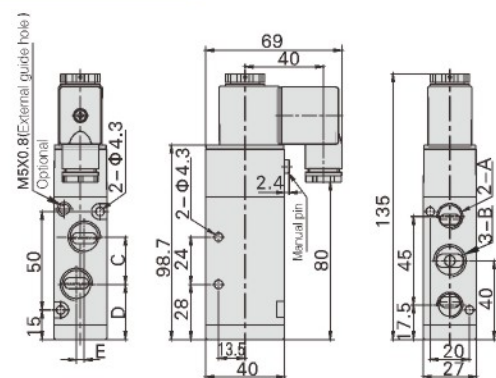


4V220DIN Plug Type

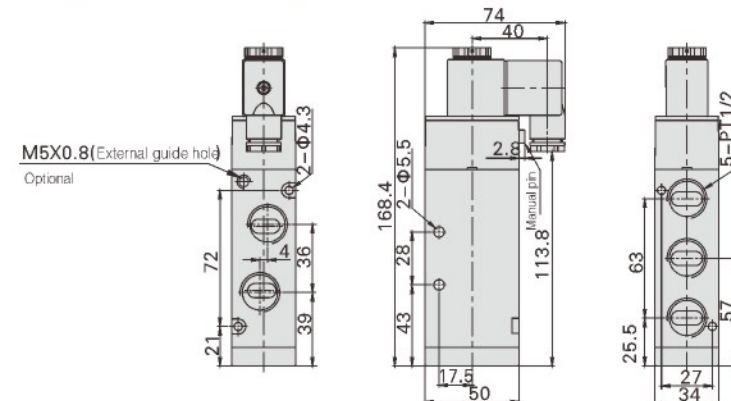


4V230DIN Plug Type

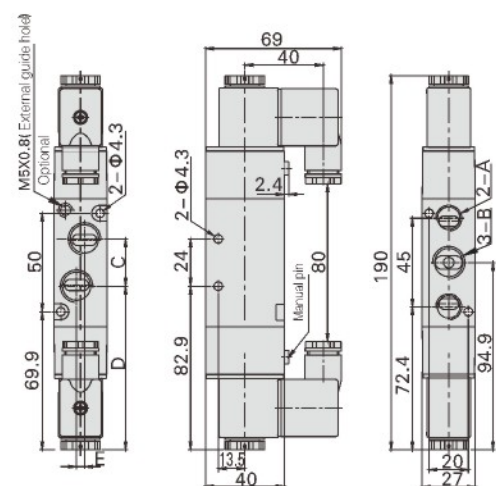




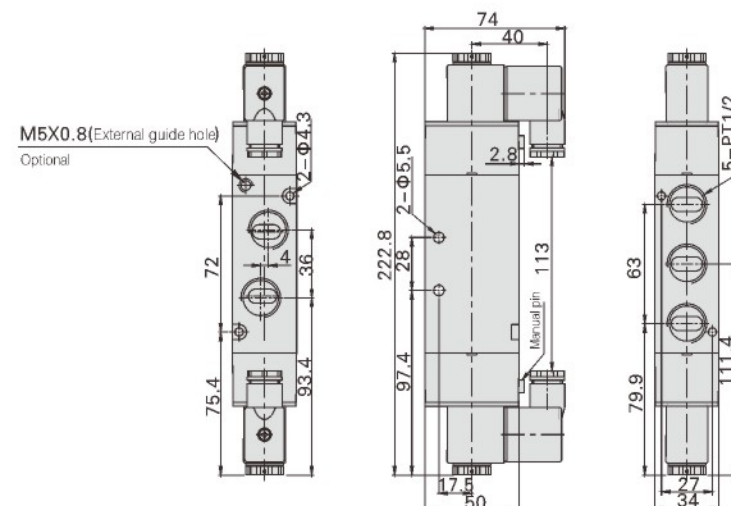
4V410DIN Plug Type



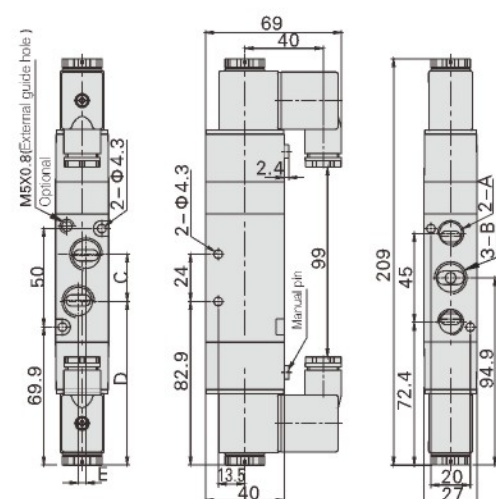
4V320DIN Plug Type



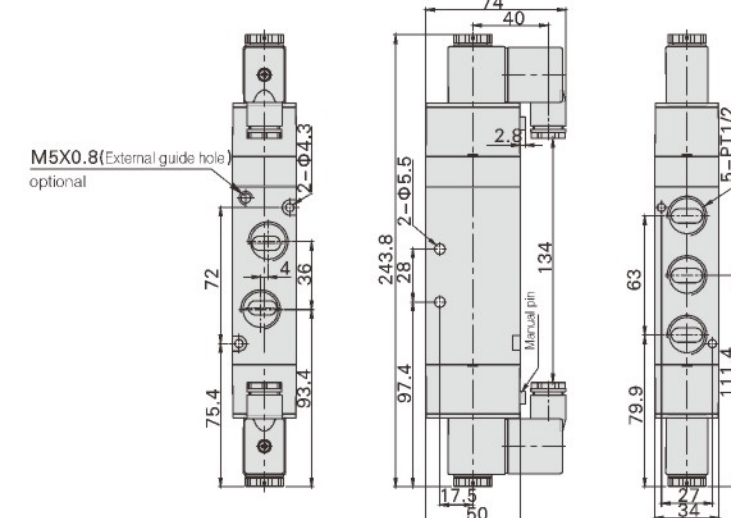
4V420DIN Plug Type



4V330DIN Plug Type



4V430DIN Plug Type



6V series Solenoid Valve

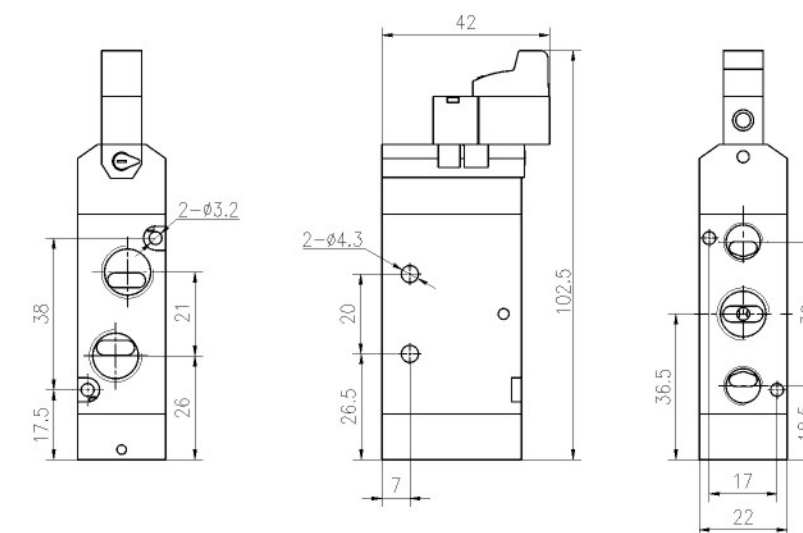
Symbol



Technical Specification

Model		Port Size	Postions	Max. Operating Frequency	Response time (ms/05 MPa Time)	Pressure Range	Working Temperature	Working Medium	Action Mode	Energy consumption value	Pressure Range	Protection level	Heat resistance grade	Lubrication
110	110	G1/8	5/2 way	5	20	0.15~0.7MPa	-5~60℃ (Not Frozen)	Air	Internal Pilot Type	1.2W (optional)	AC: ± 15% DC: ± 10%	Dustproof	B	No need
	120			5										
	130		5/3 way	3										
	130E			3										
	130P			3										
210	210	G1/4	5/2 way	5										
	220			5										
	230C		5/3 way	3										
	230E			3										
	230P			3										

Dimension (mm)



4M series Solenoid Valve

Symbol



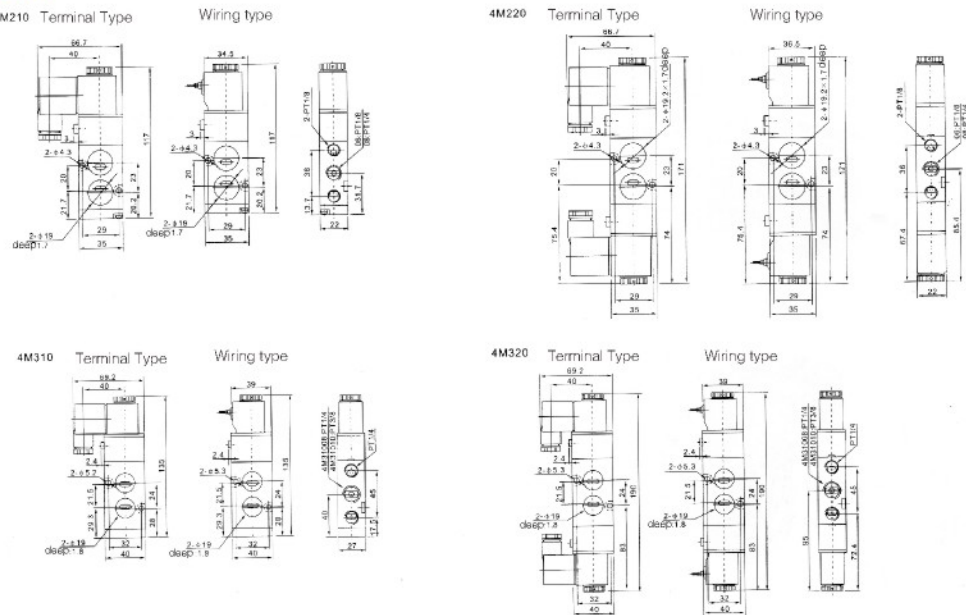
Technical Specification

Model		Port Size Rc(G)	Coil and Positions	Ways	Pressure Range MPa
4M210	06	1/8"	Single coil double positions	5/2 way	0.15~0.8
	08	1/4"			
4M220	06	1/8"	Double coils double positions	5/2 way	
	08	1/4"			
4M310	08	1/4"	Single coil double positions	5/2 way	
	10	3/8"			
4M320	08	1/4"	Double coils double positions	5/2 way	
	10	3/8"			
4M230	06	1/8"	Double Coil Three Positions	5/3 way	0.15~0.8 Closed Type Exhaust Type Pressurized Type
	08	1/4"			
4M330	08	1/4"	Double Coil Three Positions	5/3 way	
	10	3/8"			

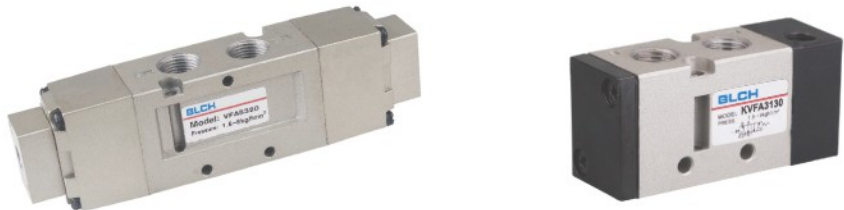
Order Code

4M 3 10 10 □ □ □						
Model Code	Series	Electric control mode	Port Size	Voltage	Connecting Type	Port Size
4M: 5/2 way 5/3 way	2.200 series	10: Double positions single electric control 20: Double positions double electric control	06: 1/8" 08: 1/4"	A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V	Nil:DIN Plug Type I:Wiring type	Nil:GPort PT Port NPT
	3.300 series		08: 1/4" 10: 3/8"			

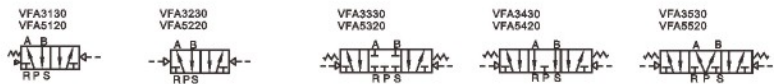
Dimension (mm)



VFA series Air Control Valve



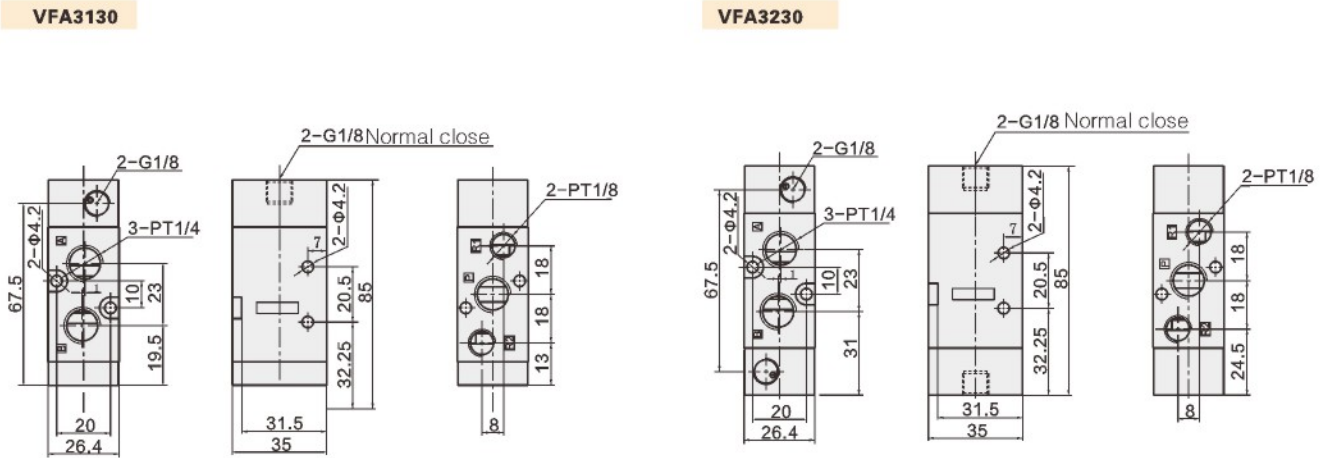
Symbol



Technical Specification

Model	specification				
	Number of positions	Pressure Range MPa(bar)	Air Control Pressure Range MPa(bar)	Port Size	Effective cross-sectional area mm ² (CV value)
VFA3130-02	single control 2 positions	0.15~0.9(1.5~9)	*(0.04xP+0.1)~0.9 (0.4xP+1)~9	PT1/4	18(1)
VFA3230-02	double control 2 positions			PT1/4	18(1)
VFA3330-02	double control 3 positions			PT1/4	18(1)
VFA3430-02	double control 3 positions			PT1/4	18(1)
VFA3530-02	double control 3 positions			PT1/4	18(1)
VFA5120-03	single control 2 positions			PT3/8	45(2.5)
VFA5220-03	double control 2 positions			PT3/8	45(2.5)
VFA5320-03	double control 3 positions			PT3/8	45(2.5)
VFA5420-03	double control 3 positions			PT3/8	45(2.5)
VFA5520-03	double control 3 positions			PT3/8	45(2.5)

Dimension(mm)



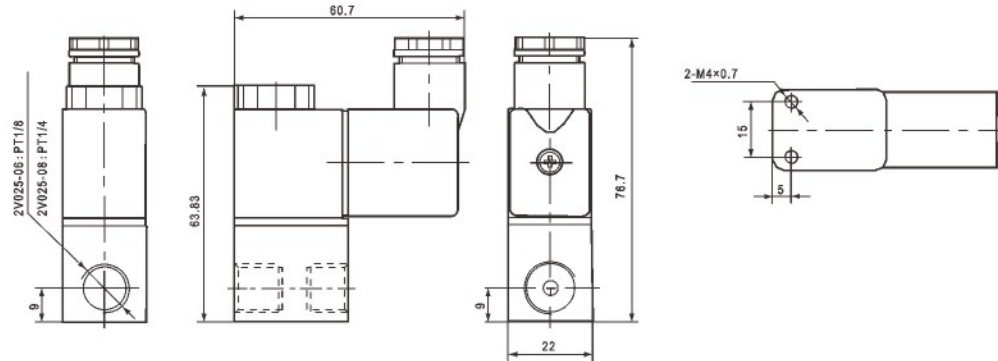
2V series Solenoid Valve



Technical Specification

Model	Port Size Rc(G)	Coils and Positions	Ways	Working pressure range MPa
2V025	06 1/8"	Single coil double positions	2/2 way	0.15~0.8
	08 1/4"			

Dimension(mm)



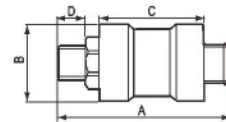
Solenoid Valve Coil



Technical Specification

Model	Max. Flow L/min(ANR)
AC220V	with terminal
	with wire
AC110	with terminal
	with wire
DC24V	with terminal
	with wire
DC12V	with terminal
	with wire

HSV series slide Valve



Order Code

HSV	-	06	SF
Series Code	Port Size	Thread Type	
MS:Aluminum	06:1/8"	SS:Double Male Thread Type	
BNS:Brass	08:1/4"	SF:Male and female Thread Type	
	10:3/8"	FF:Double Female Thread Type	
	15:1/2"		

Technical Specification

Model	HSV-06SF/SS/FF	HSV-08SF/SS/FF	HSV-10SF/SS/FF	HSV-15SF/SS/FF
Working Medium	Air			
Port Size	1/8"	1/4"	3/8"	1/2"
Proof Pressure	0~1.0MPa			
Working temperature range	-5~60°C(Not Frozen)			
Main Material	Body	HSV: Aluminum Alloy BHSV: Brass		
	O ring	NBR		

Dimension(mm)

Model	A	B	C	D
HSV-08SF	59	26	32	11.3
HSV-10SF	59	31	32	11.3
HSV-15SF	91	39	49	12

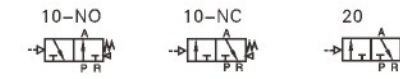
3A series Air Control Valve

Order Code



3V 2 10 08 NO □					
model code	series	Mode of air control	Port Size	Original status	Port Size
3/2 way	1.100 series	10:Double positions	M5 M5	NC:Normally closed type	blank:G Port PT Port NPT
	2.200 series	Single control	06 1/8"		
	3.300 series	20:Double positions	08 1/4"	NO:Normally open type	
	4.400 series	Double control	10 3/8"		
			15 1/2"		

Symbol

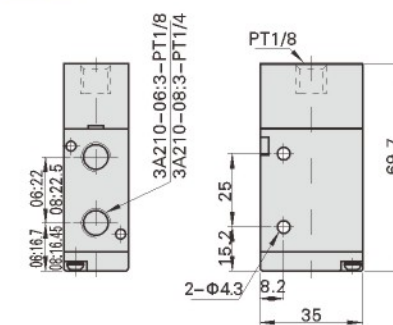


Technical Specification

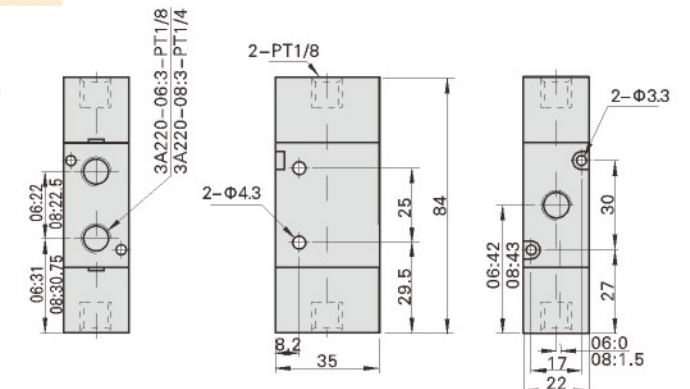
Model	Port Size Rc(G)	Switching Mode	Ways	Working pressure range MPa
3A110	M5 M5	Air	3/2 way	0.15~0.8
	06 1/8"			
3A120	M5 M5			
	06 1/8"			
3A210	06 1/8"			
	08 1/4"			
3A220	06 1/8"			
	08 1/4"			
3A310	08 1/4"			
	10 3/8"			
3A320	08 1/4"			
	10 3/8"			
3A410	10 3/8"			
	15 1/2"			
3A420	10 3/8"			
	15 1/2"			

Dimension(mm)

3A210



3A220

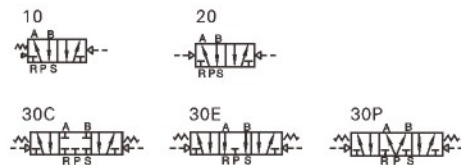


4A series Air Control Valve

Dimension (mm)

Model	4A110-M5	4A110-06
A	M5x0.8	G1/8
B	27	28
C	14.6	14.1
D	0	2
E	30	30
F	13.1	13.1
G	0	3

Symbol



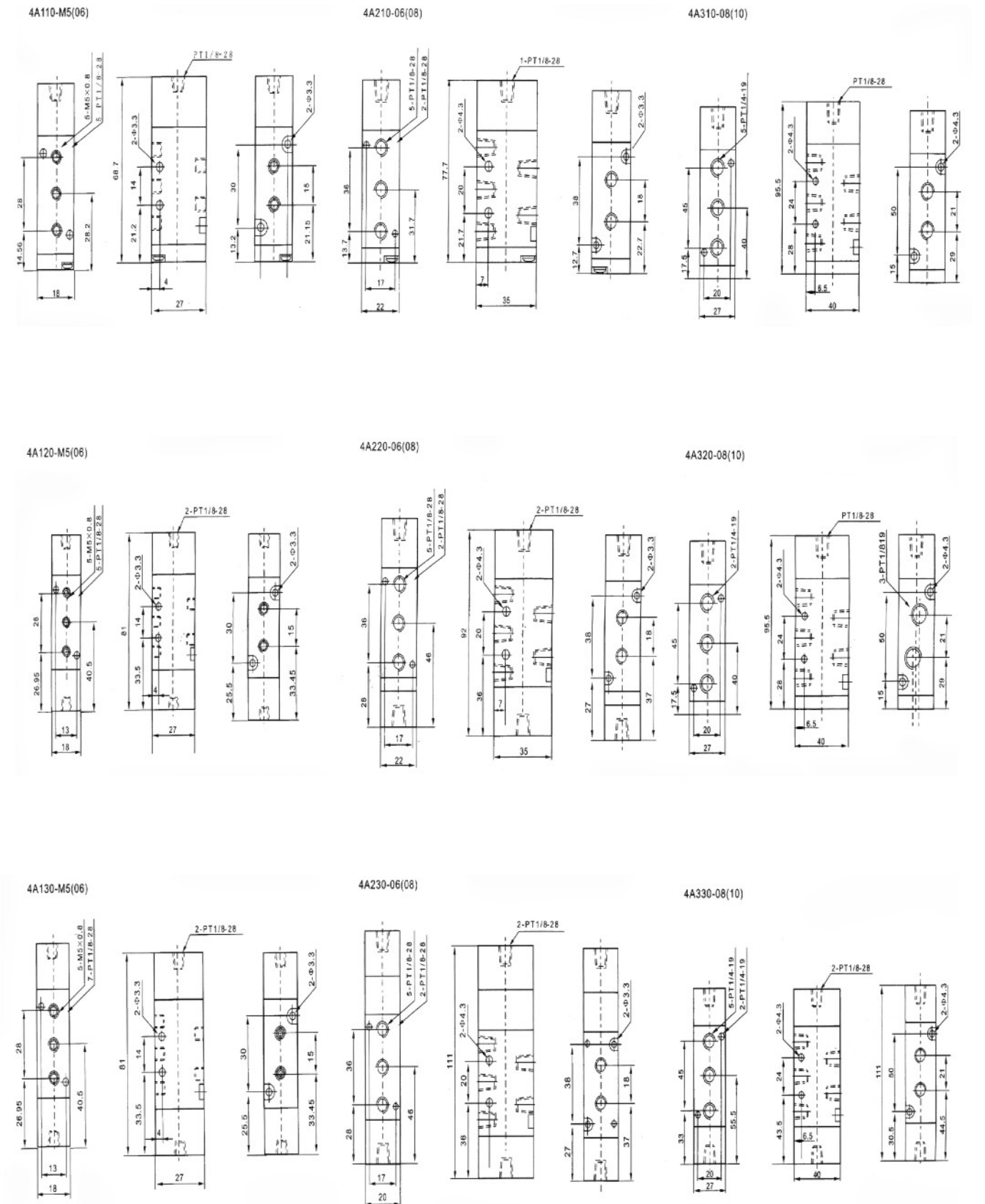
Order Code

4A 2 10 08 □

model code	series	Electric control mode	Port Size	Port Size
4A: 3/2 way 3/5 way	1.100 series 2.200 series 3.300 series 4.400 series	10:Double positions single electric control 20:Double positions double electric control 30C:Three positions double electric control closed type 30E:Three positions double electric control exhaust type 30P:Three positions double electric control Pressurized type	M5 M5 06 1/8" 08 1/4" 10 3/8" 15 1/2"	blank:G Port PT Port NPT

Technical Specification

Model	Port Size Rc(G)	Switching Mode	Ways	Working pressure range MPa
4A110	M5	Air	3/2 way	0.15~0.8
	06			
4A120	M5			
	06			
4A210	06			
	08			
4A220	06			
	08			
4A310	08			
	10			
4A320	08		5/3 way	0.15~0.8
	10			
4A410	15			
	15			
4A130	M5			
	06			
4A230	06			
	08			
4A330	08			
	10			
4A430	10			
	15			

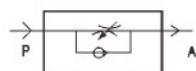


ASC series Flow Control Valve

Technical Specification

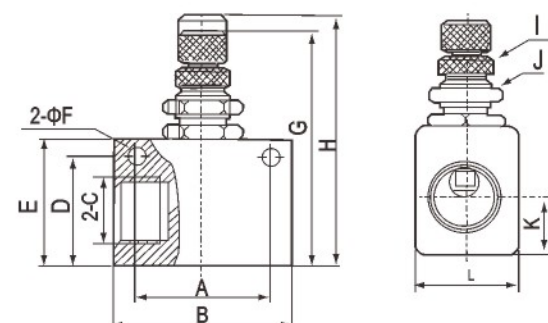


Symbol



Order Code

ASC200 - 06
Series Port Size
06:1/8"
08:1/4"
10:3/8"
15:1/2"



Dimension(mm)

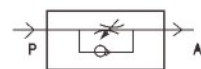
Model	A	B	C	D	E	F	G	H	K	L
ASC100-06	22	32	1/8	18	23	4.3	45.7	52.3	10	18
ASC200-08	26	36	1/4	22	27	4.3	49.7	56.3	12	18
ASC300-10	30	40	3/8	24	29	4.3	51.7	58.3	13	12
ASC300-15										

RE series Flow Control Valve

Technical Specification

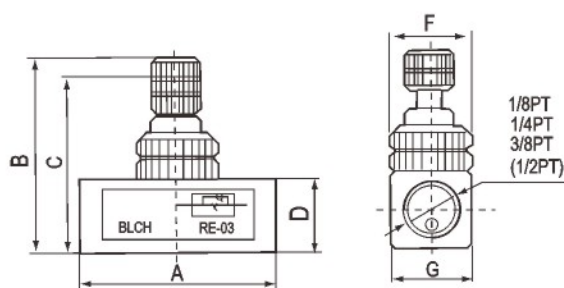


Symbol



Order Code

RE - 01
Series Port Size
01:1/8"
02:1/4"
03:3/8"
04:1/2"



Dimension(mm)

Model	A	B	C	D	F	G
RE-01	43	48	44	19	18	19
RE-02	43	48	44	19	18	19
RE-03	56.4	63	53	25	24	25
RE-04	56.4	63	53	25	24	25

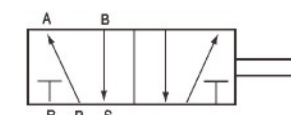
3H/4H series Hand Lever Valve

Dimension(mm)

Model	φD	A	B	C	E	F	J	R1	R2	R3
4H210-08	4	35	76.3	22	94.5	21	21	R1/4	R1/4	R3/8
4H310-10	4	40	92	27	100	28	28	R3/8	R3/8	R3/8
4H410-15	5.5	50	12.4	34	105	28.2	34.6	R3/8	R3/8	R3/8

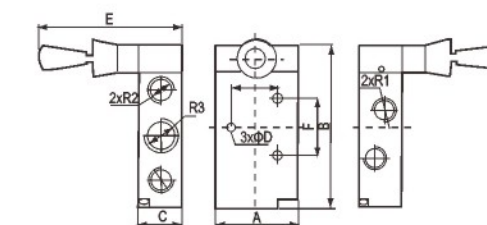


Symbol



Order Code

3H/4H 2 10 - 08
3H:2/3 Series Code Position Code Port Size
3/2 way 1:100 series 10: single and 06:1/8"
4H:2/5 2:200 series double positions 08:1/4"
5/2 way 3:300 series 10:3/8"
4:400 series 15:1/2"



Specification

Model	3H210-06/08 4H210-06/08	3H310-08/10 4H310-08/10	3H410-10/15 4H410-10/15
Working Fluid	Air		
Working Mode	Direct Acting type		
CV Value(mm ²)	16(CV=0.89)	25(CV=1.4)	30(CV=1.68)
Port Size	1/4"	3/8"	1/2"
Working pressure range	0~0.8MPa		
Working temperature range	-5~60°C(Not Frozen)		
Operating Angle	± 5		
Main Material	Aluminum Alloy		
O ring	NBR		

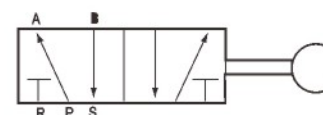
3L/4L series Hand Valve

Dimension(mm)

Model	φD	A	B	C	E	F	J	H	R1	R2	R3
4L210-08	4	35	100	22	63	20	21	17	1/8	1/4	1/4
4L310-10	4	40	116	27	95	24.3	28	19	1/4	3/8	3/8
4L410-15	5.5	50	154	34	114.3	28	35	24	3/8	1/2	1/2

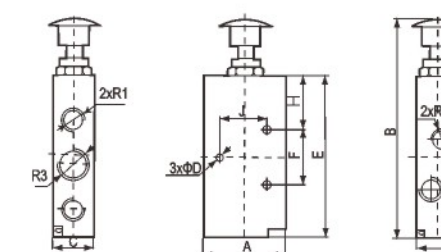


Symbol



Order Code

4L 2 100 - 08
3L:2/3 Series Code Position Code Port Size
3/2 way 1:100 series 10: single and 06:1/8"
4L:2/5 2:200 series double positions 08:1/4"
5/2 way 3:300 series 10:3/8"
4:400 series 15:1/2"



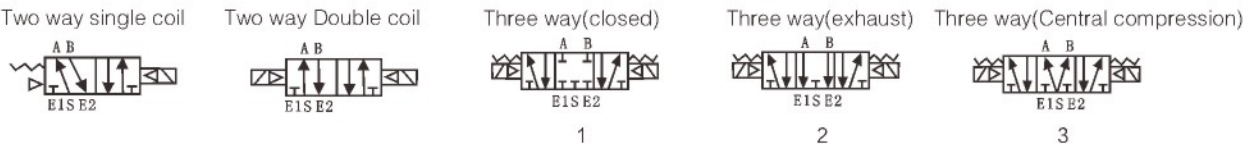
Specification

Model	3L110-M5/06 4L110-M5/06	3L210-06/08 4L210-06/08	3L310-08/10 4L310-08/10	3L410-10/15 4L410-10/15
Working Fluid	Air			
Working Mode	Direct Acting type			
CV Value(mm ²)	16(CV=0.89)	16(CV=0.89)	25(CV=1.4)	30(CV=1.68)
Port Size	1/8"	1/4"	3/8"	1/2"
Working pressure range	0~0.8MPa			
Working temperature range	-5~60°C(Not Frozen)			
Operating Angle	± 5			
Main Material	Aluminum Alloy			
O ring	NBR			

DS3000/VF3000 series Solenoid Valve



Symbol



Order Code

DS3
VF3 **130** **4** **G** **B** **02**

Series Coil and position number Standard voltage Conductive form Manual operation Port Size

130:5/2 way single-head double-position
230:5/2 way double-head double-position
330:5/3 way double-head three-position closed type
430:5/3 way double-head three-position exhaust type
530:5/3 way double-head three-position pressure type

3: 110VAC
4: 220VAC
5: 24VDC
6: 12VDC

G:Direct wiring type
D:DIN socket type
DZ:DIN socket type with light

02: PT1/4

Technical Specification

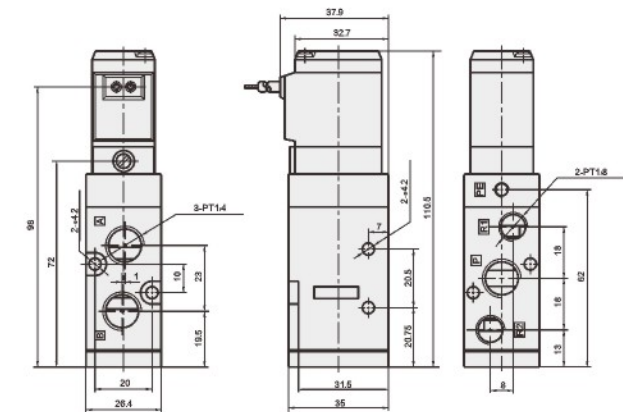
Working Medium	Air
Ambient Temperature	Max 50°C
lubrication	No need
Manual operation	Screwdriver locked type
Shock resistance	30G/5G(8.3~2000Hz)
Seal	Dust proof

Connecting Type	Direct wiring type/DIN socket type
Standard voltage	AC : 110V, 220V(50Hz) DC:12V,24V
Voltage variation range	-15%~+10% of rated voltage
Insulation over voltage	Grade B or equivalent
Power consumption	AC Start:5.6VA,Lasting:3.4VA DC 1.8W/2W(With indicator light)
Over voltage suppressor	Ac: varistor,DC: diode
Indicator light	Ac: neon lamp,DC: light emitting diode

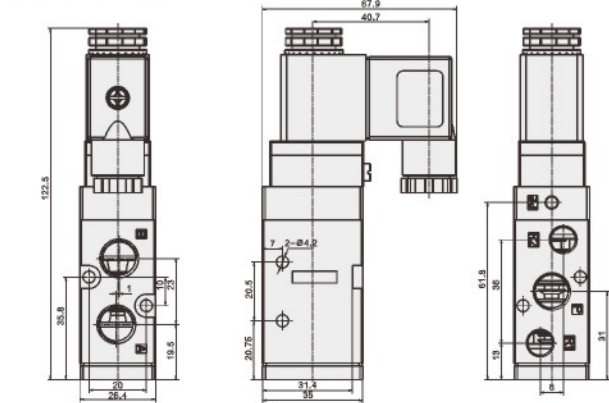
Model	Specifications							
	Number of position	Electromagnetic coil	Operating pressure range kgf/cm ² (Mpa)	Reaction time (ms)	Max operation frequency (times/second)	Port Size	Effective cross-sectional area mm ² (CV value)	Weight (Kgf)
DS/VF3130-□△B-02	2	Single coil	1.5~9(0.15~0.9)	30 or less	5	PT1/4	17.1(0.95)	0.21
DS/VF3230-□△B-02	2	Double coils	1~9(0.1~0.9)	30 or less	5	PT1/4	17.1(0.95)	0.29
DS/VF3330-□△B-02	3	Double(Central closed)	1~9(0.1~0.9)	50 or less	3	PT1/4	13.5(0.75)	0.42
DS/VF3430-□△B-02	3	Double(Central exhaust)	1~9(0.1~0.9)	50 or less	3	PT1/4	17.1(0.95)	0.42
DS/VF3530-□△B-02	3	Double(Central pressurization)	1~9(0.1~0.9)	50 or less	3	PT1/4	16.2(0.9)	0.42

Dimension(mm)

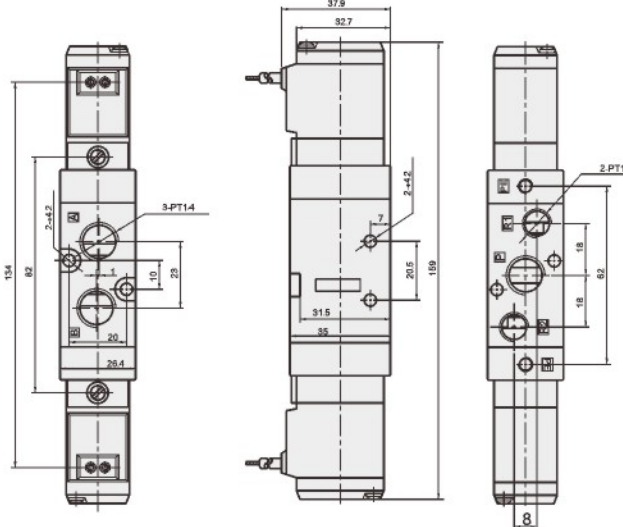
3130 Wiring type



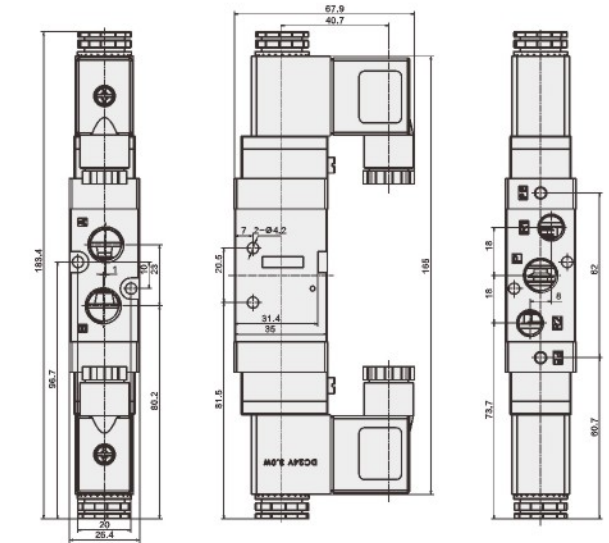
3130 Plug Type



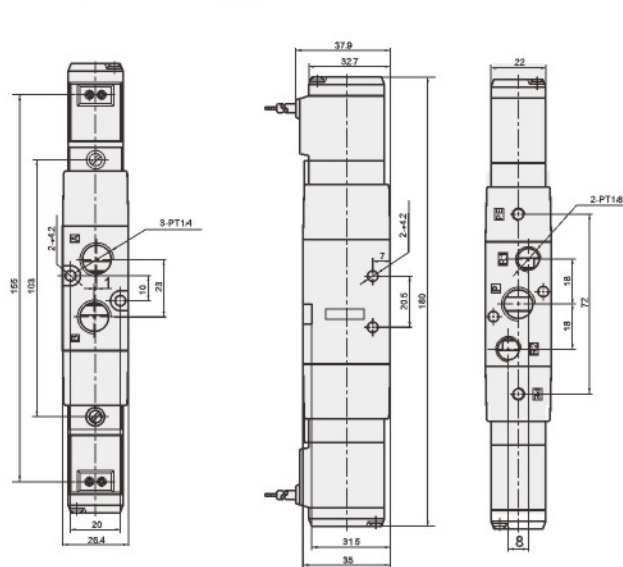
3230 Wiring type



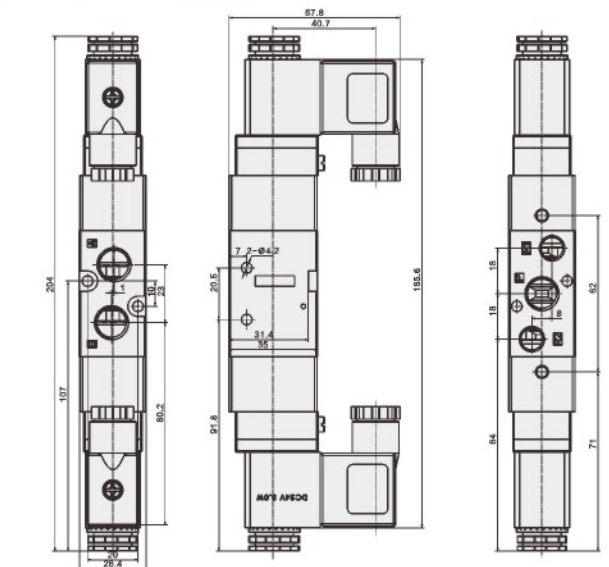
3230 Plug Type



3330/3430/3530 Wiring type



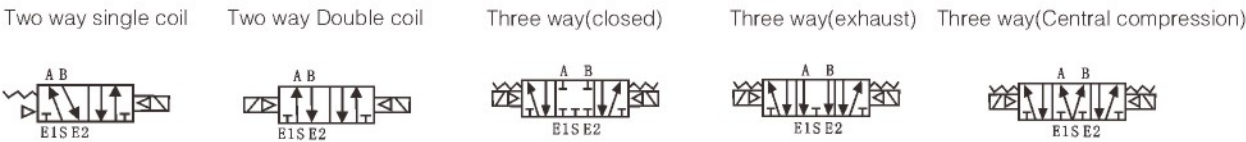
3330/3430/3530 Plug Type



DS5000/VF5000 series Solenoid Valve



Symbol



Order Code

DS5
VF5

120

4

G

B

03

Series Coil and position number Standard voltage Conductive form Manual operation Port Size

120:5/2 way single coil double position
220:5/2 way double coil double position
320:5/3 way double coil three-position closed type
420:5/3 way double coil three-position exhaust type
520:5/3 way double coil three-position pressurized type

3: 110VAC
4: 220VAC
5: 24VDC
6: 12VDC

G: Direct wiring type
D: DIN socket type
DZ: DIN socket type with light

03: PT3/8

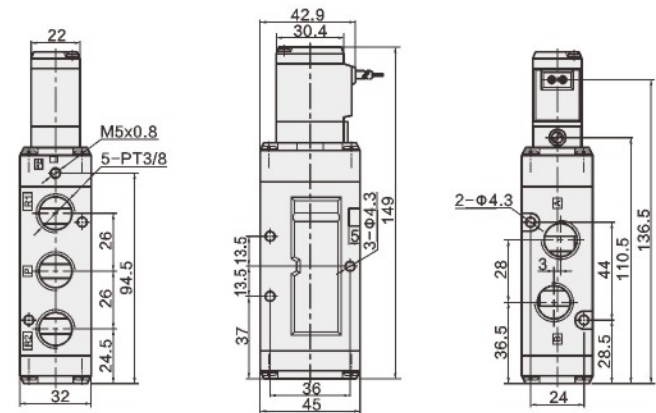
Technical Specification

Working Medium	Air	Connecting Type	Direct wiring type/DIN socket type
Ambient Temperature	Max 50°C	Standard voltage	AC : 110V, 220V(50Hz) DC:12V,24V
lubrication	No need	Voltage variation range	-15%~+10% of rated voltage
Manual operation	Screwdriver locked type	Insulation over voltage	Grade B or equivalent
Shock resistance	30G/5G(8.3~2000Hz)	Power consumption	AC Start:5.6VA, Lasting:3.4VA DC 1.8W/2W(With indicator light)
Seal	Dust proof	Over voltage suppressor	Ac: varistor, DC: diode
		Indicator light	Ac: neon lamp, DC: light emitting diode

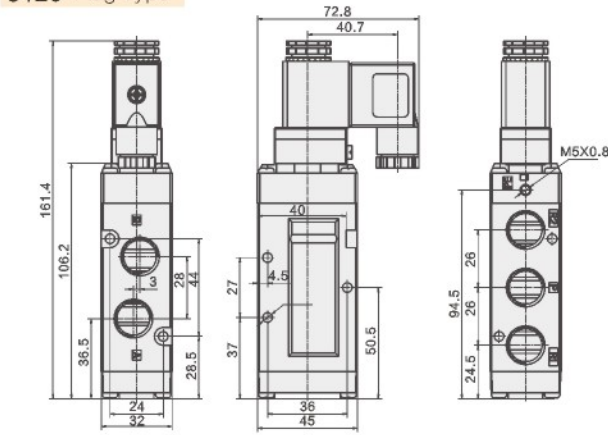
Model	Number of position	Specifications						
		Electromagnetic coil	Operating pressure range kgf/cm ² (Mpa)	Reaction time (ms)	Max operation frequency (times/second)	Port Size	Effective cross-sectional area mm ² (CV value)	Weight (Kgf)
DS5/VF5120-□AB-02	2	Single coil	1.5~9(0.15~0.8)	30 or less	5	PT3/8	45(2.5)	0.38
DS5/VF5220-□AB-02	2	Double coils	1~9(0.1~0.9)	30 or less	5	PT3/8	45(2.5)	0.45
DS5/VF5320-□AB-02	3	Double(Central closed)	1~9(0.1~0.9)	50 or less	3	PT3/8	36(2)	0.53
DS5/VF5420-□AB-02	3	Double(Central exhaust)	1~9(0.1~0.9)	50 or less	3	PT3/8	41.4(2.3)	0.53
DS5/VF5520-□AB-02	3	Double(Central pressurization)	1~9(0.1~0.9)	50 or less	3	PT3/8	36(2)	0.53

Dimension(mm)

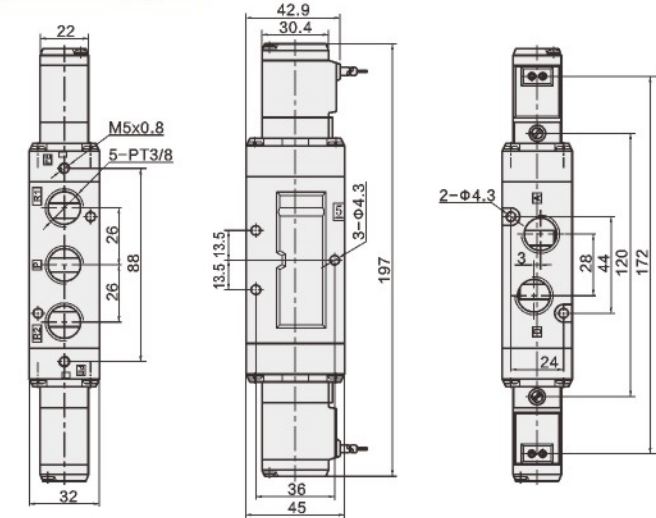
5120 Wiring type



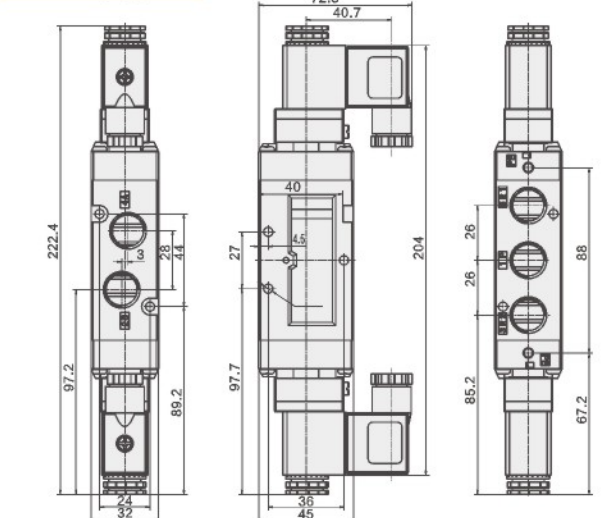
5120 Plug Type



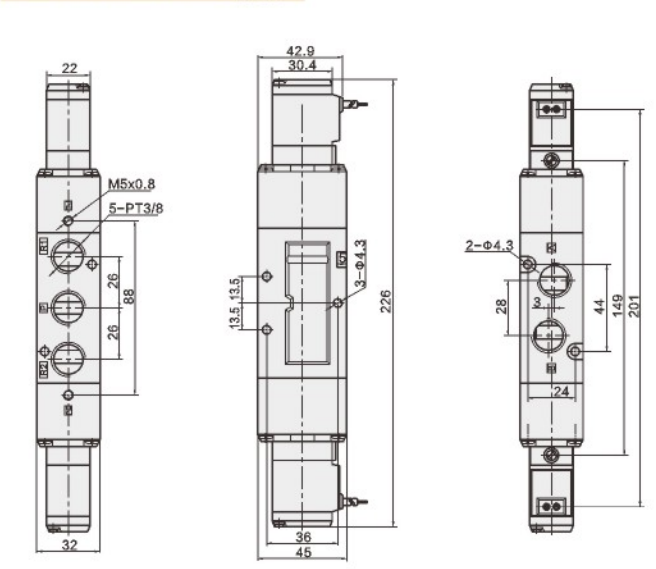
5220 Wiring type



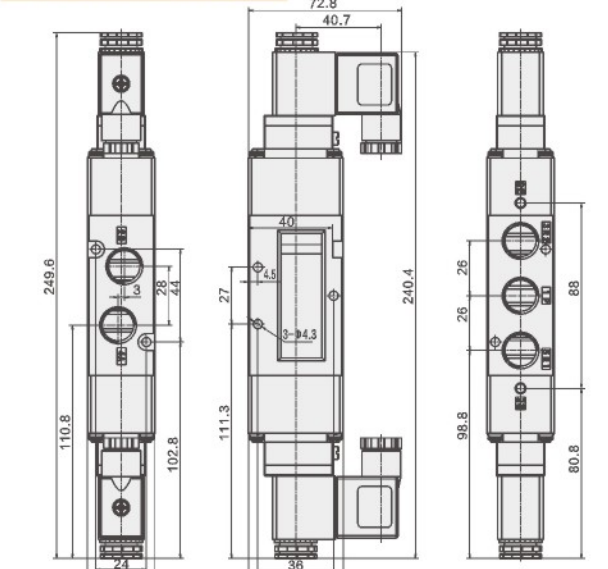
5220 Plug Type

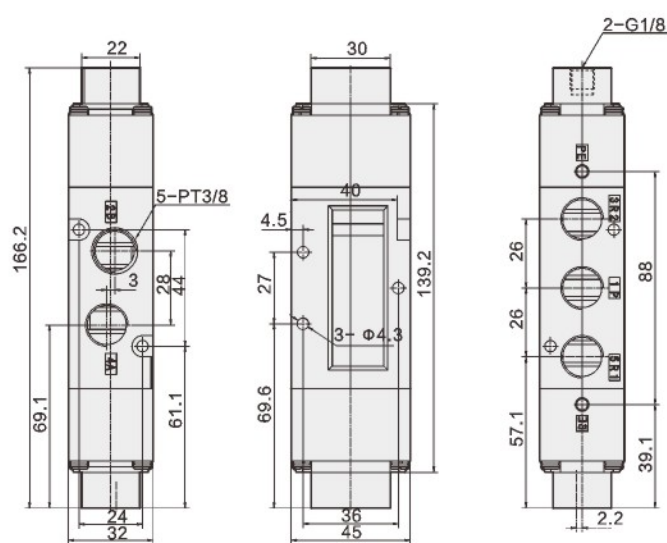
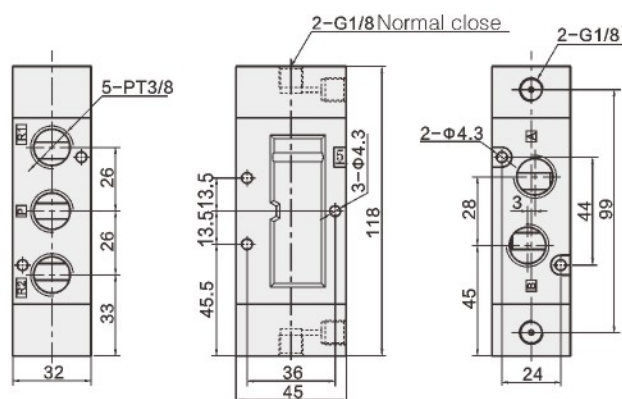
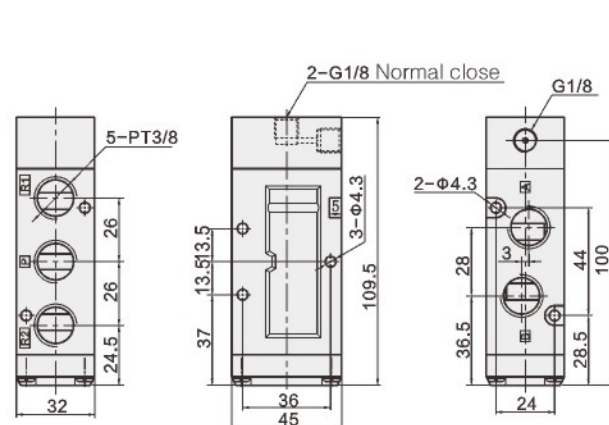
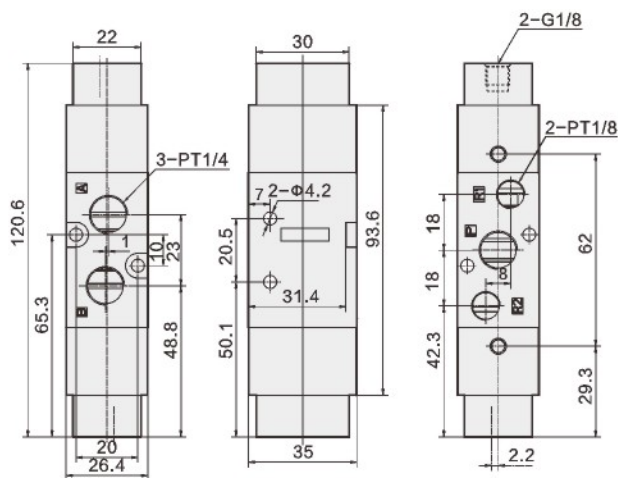


5320/5420/5520 Wiring type



5320/5420/5520 Plug Type





Manifold 4V Series



Technical Specification

Model	100M	200M	300M	400M
Working Fluid	Air(to be filtered by 40μm filter element)			
Temperature Range	-5~60℃(Not Frozen)			
Applicable Valve Body Series	4V100Series	4V200Series	4V300Series	4V400Series

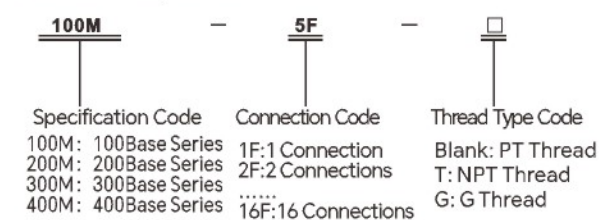
Technical Specification

- 1、The same series of directional control valves can be integrated into the valve group to save space and cost.
- 2、Unified air intake and exhaust, unified wiring, easy to find fault.
- 3、Flexible combination and strong expansibility. The number of directional control valves connected can be arbitrarily combined or expanded.

Order Code

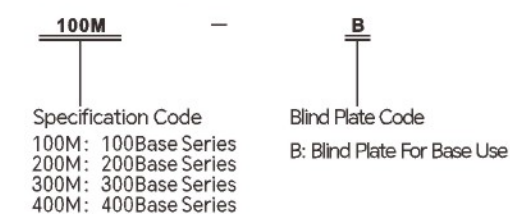
The model expression method includes base and blind plate

Base Model Representation



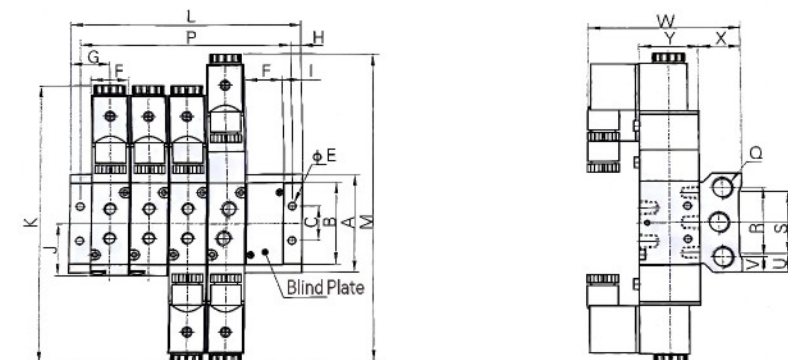
① For 100m, 200m series: up to 16 connections. For 300m: up to 12 connections. For 400m: up to 8 connections.

Blind Plate Code



Dimensions (mm)

For 4V Solenoid Valve



Model	A	B	C	D	E	F	G	H	I	J	K	M	Q	R	S	T	U	V	W	X	Y
100M□F	58	43.2	20	4.5	18.3	18.3	19	5	10	28.2	139.4	154.5	G1/4	40	30	29	14	9	79	25	27
200M□F	61	50.7	21	4.5	22.4	22.4	23	6	12	31.7	170	189	G1/4	43	32	30.5	14.5	9	93	27	35
300M□F	75	64.8	26	4.5	27.3	27.3	27	6	13.5	40	188.8	208	G3/8	53	48	37.5	13.5	11	99.5	30	45
400M□F	104	94.5	32	5.5	34.3	34.3	31.5	7	14.5	57	221.8	243	G1/2	68	63	52	18.5	18	112.5	38	50

Model	L															
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
100M□F	38	57	76	95	114	133	152	171	3190	209	228	247	266	285	304	323
200M□F	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391
300M□F	54	82	110	138	166	194	222	250	278	306	334	362	-	-	-	-
400M□F	63	98	133	168	203	238	273	308	-	-	-	-	-	-	-	-

Model	P															
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
100M□F	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313
200M□F	34	57	80	103	126	149	172	195	218	241	264	287	333	333	356	379
300M□F	42	70	98	126	154	182	210	238	266	294	322	350	-	-	-	-
400M□F	49	84	119	154	189	224	259	294	-	-	-	-	-	-	-	-

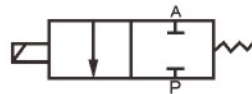
2W series Solenoid Valve



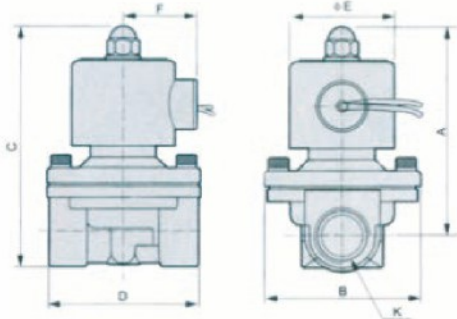
Order Code

2W	025	—	10		AC110V	—	D
flow diameter			port size		Standard Voltage		wiring Form
015:1.2mm			06:1/8"		DC12V		empty: Lead wire coil
025:2mm			08:1/4"		AC24V 50/60Hz		D: joint connector
040:4.0mm			10:3/8"		AC36V 50/60Hz		N: explosion-proof coil
160:16mm			15:1/2"		AC110V 50/60Hz		E: water-proof coil
200:20mm			20:3/4"		AC220V 50/60Hz		
250:25mm			25:1"		AC380V 50/60Hz		
350:35mm			35:1 1/4"				
400:40mm			40:1 1/2"				
500:50mm			50:2"				

Symbol



Dimension(mm)



Model	A	B	C	D	K(PT)
2W025-06	66	30.3	75	40.5	1/8"
2W025-08	66	30.3	75	40.5	1/4"
2W040-10	74	32.2	85.5	52.5	3/8"
2W160-15	101.5	57	117	69	1/2"
2W200-20	107	57	123.5	73	3/4"
2W250-25	111.5	73.5	134.5	99	1"
2W350-35	142	95	172	123	1 1/4"
2W400-40	142	95	172	123	1 1/2"
2W500-50	172	123	209	168	2"

Technical Specification

Model	Working Medium	Action type	model type	flow diameter mm	Cv value	port size	working fluid viscosity	Operating pressure kgf/cm ²	Max working pressure kgf/cm ²	working temperature °C	operating voltage range	body material	seal ring material
2W025-06	air water gas oil	Direct Acting	Normal Close Type	2.5	0.23	1/8"	20CST 以下 (Below) 50CST 以下 (Below)	0-7 water*0-7 air*0-7 oil *0-5 gas*0-7	10	5-80	± 10%	2W: Brass 2S: Stainless Steel	NBR EPDM or VITON
2W025-08				2.5	0.23	1/4"							
2W040-10				4	0.6	3/8"							
2W160-15				16	4.8	1/2"							
2W200-20				20	7.6	3/4"							
2W250-25				25	12	1"							
2W350-35				35	24	1 1/4"							
2W400-40				40	29	1 1/2"							
2W500-50				50	48	2"							

Non-standard voltage and specification pls contact us

2L series Solenoid Valve

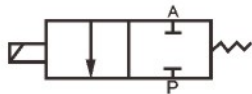


Order Code

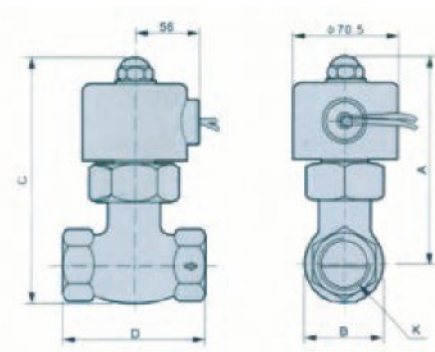
2L	170	—	15	—	AC110V	—	F
flow diameter			port size		standard voltage		Wiring Form;
170:17mm			10:3/8"		DC12V		Blank:Lead Wire Type
200:22mm			15:1/2"		AC24V 50/60Hz		F:Join Connector
300:30mm			20:3/4"		AC36V 50/60Hz		
500:50mm			25:1"		AC110V 50/60Hz		
			35:1 1/4"		AC220V 50/60Hz		
			40:1 1/2"		AC380V 50/60Hz		
			50:2"				

Specification Code:
2L:Steam type two positon two way solenoid valve

Symbol



Dimension(mm)



Model	A	B	C	D	K(PT)
2L170-10	125	42	146	82	3/8"
2L170-10	125	42	146	82	1/2"
2L170-10	125	42	146	82	3/4"
2L170-10	136	52	162	90.5	1"
2L170-10	148	74	185	111	1-1/4"
2L170-10	148	74	183	111	1-1/2"
2L170-10	176	94.5	223	163	2"

Technical Specification

Model	Working Medium	Action type	model type	flow diameter mm	Cv value	port size	working fluid viscosity	Operating pressure kgf/cm ²	Max working pressure kgf/cm ²	working temperature °C	operating voltage range	body material	seal ring material
2L170-10	Air, Water, Steam	Direct Acting	Normal Close Type	17	4.8	3/8"	20CST (Below)	1-15	22.5	-5-180℃	± 10%	Brass	(PTFE)
2L170-15				17	4.8	1/2"							
2L170-20				17	4.8	3/4"							
2L200-25				22	12	1"							
2L300-35				30	20	1-1/4"							
2L300-40				30	20	1-1/2"							
2L500-50				50	48	2"							

Non-standard voltage and specification pls contact us

2S series Solenoid Valve



Order Code

2S

050

10

AC110V

D

flow diameter
015:1.2mm
020:2mm
025:2.5mm
040:4.0mm
160:16mm
200:20mm
250:25mm
350:35mm
400:40mm
500:50mm

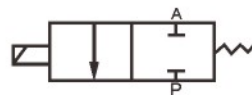
port size
06:1/8"
08:1/4"
10:3/8"
15:1/2"
20:3/4"
25:1"
35:1 1/4"
40:1 1/2"
50:2"

standard voltage
DC12V
DC24V
AC24V 50/60Hz
AC36V 50/60Hz
AC110V 50/60Hz
AC220V 50/60Hz
AC380V 50/60Hz

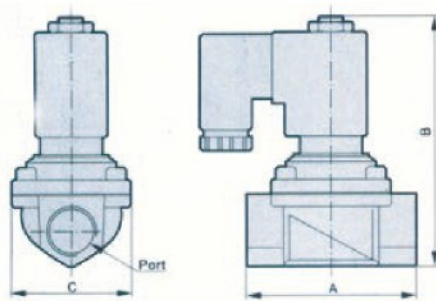
Wiring Form:
Blank: Lead Wire Type
D: Join Connector
E: Blast-proof Coil
G: Water-proof Coil

Specification Code:
2S:two positon two way solenoid valve(direct drive type)

Symbol



Dimension(mm)



Model	A	B	C	D	K(PT)
2S025-06	66	30.3	75	40.5	1/8"
2S025-08	66	30.3	75	40.5	1/4"
2S025-10	74	32.2	85.5	52.5	3/8"
2S025-15	101.5	57	117	69	1/2"
2S025-20	107	57	123.5	73	3/4"
2S025-25	111.5	373.5	134.5	99	1"
2S025-35	142	95	172	123	1 1/4"
2S025-40	142	95	172	123	1 1/2"
2S025-50	172	123	209	168	2"

Technical Specification

Model	Working Medium	Action type	model type	flow diameter mm	Cv value	port size	working fluid viscosity	Operating pressure kgf/cm ²	Max working pressure kgf/cm ²	working temperature °C	operating voltage range	body material	seal ring material
2S025-06	Air, Water, Steam	Direct Acting	Normal Close Type	2.5	0.23	1/8"	20CST (Below) 50CST (Below)	0-7 Water 0-5 Air 0-7 Oil 0-5 Gas 0-7	10	5-80°C	± 10%	2W: Brass 2S Stainless Steel	NBR EPDM OR VITON
2S025-08				2.5	0.23	1/4"							
2S040-10				4	0.6	3/8"							
2S160-15				16	4.8	1/2"							
2S200-20				20	7.6	3/4"							
2S250-25				25	12	1"							
2S350-35				35	24	1 1/4"							
2S400-40				40	29	1 1/2"							
2S500-50				50	48	2"							

Non-standard voltage and specification pls contact us

PU series Solenoid Valve



Order Code

PU

220

03

AC220V

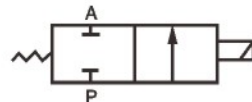
220:Guide Type

port size
03:3/8"
04:1/2"
06:3/4"
08:1"
12:1-1/4"
14:1-1/2"
20:2"

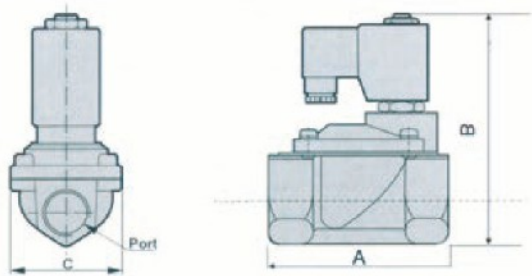
standard voltage
AC220V
AC110V
DC12V
DC24V

Specification Code:
PU:two positon two way solenoid valve
SPU:stainless steel two positon two way solenoid valve

Symbol



Dimension(mm)



Model	port size	A	B	S
PU220-03	3/8"	66.5	106.5	48
PU220-04	1/2"	66.5	106.5	48
PU220-06	3/4"	96	126	70
PU220-08	1"	96	126	70
PU220-12	1-1/4"	131	145.5	96
PU220-14	1-1/2"	131	145.5	96
PU220-20	2"	160	160.5	112

Technical Specification

Model	Working Medium	Action type	model type	flow diameter mm	Cv value	port size	body material	working fluid viscosity	Operating pressure kgf/cm ²	Max working pressure kgf/cm ²	working temperature °C
PU220-03	Air, Water, Oil	Guide Type	Normal Close Type	13	4.5	3/8"	Brass	50CST	0.5-10	15	-5-80°C
PU220-04				13	4.5	1/2"					
PU220-06				25	12	3/4"					
PU220-08				25	12	1"					
PU220-12				38	22	1-1/4"					
PU220-14				38	30	1-1/2"					
PU220-20				50	48	2"					

Non-standard voltage and specification pls contact us

Parts of Solenoid Valve

Piston series



Coil series



Iron core series



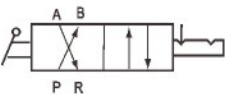
Diaphragm series



HV series Hand Rotary Valve



Symbol



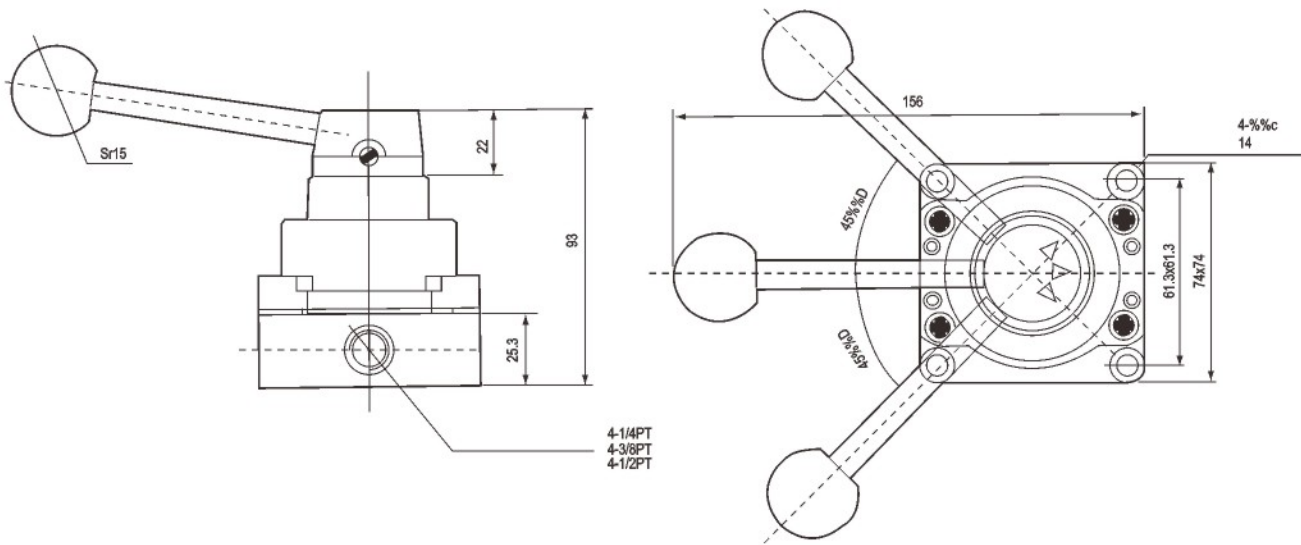
Order Code

HV	-	02
Model		Port Size
		02:1/4"
		03:3/8"
		04:1/2"

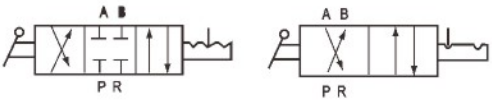
Technical Specification

Model	HV-02	HV-03	HV-04
Working Medium	Air		
Working Mode	Direct Acting type		
Port Size	1/4"	3/8"	1/2"
Working pressure range	0~0.8MPa		
Working temperature range	-5~60°C(Not Frozen)		
Lubricating	No Need		
Main Material	Body	Aluminum Alloy	
	O ring	NBR	

Dimension(mm)



4HV series Hand Valve



Order Code

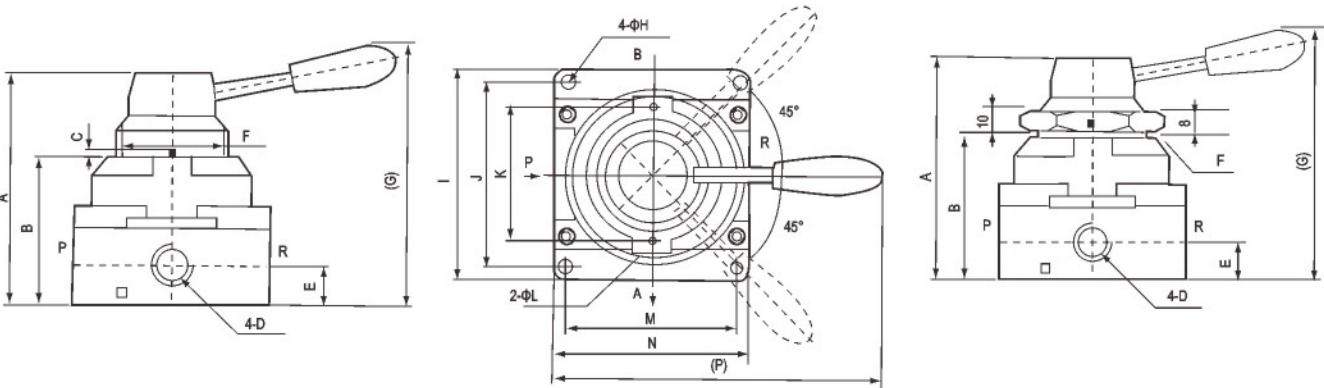
4HV	2	30
Model	Series	Positions
	2:2Series	10:4 port 2 position
	3:3Series	30:4 port 3 position
	4:4Series	

Technical Specification

Model	4HV2□□-06	4HV2□□-08	4HV3□□-08	4HV3□□-10	4HV4□□-15	4HV4□□-20
Working Medium	Air					
Positions	4 Port 3 Position/ 4 Port 2 Position					
Port Size	1/8"	1/4"	1/4"	3/8"	1/2"	3/4"
CV Valve(mm ²)	14(0.78)	16(0.89)	30(1.67)	33(1.83)	88(4.89)	95(5.27)
Working pressure range	0~1.0MPa					
Proof Pressure	15kgf/cm ²					
Working temperature range	-5~60°C(Not Frozen)					
Operating Angel	90°C					
Weight(kg)						
Main Material	Aluminum Alloy					
	Nylon					

Dimension(mm)

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
4HV2□□-06	72.6	45	1.5	PT1/8	11.5	M34 x 1.5	92.5	5	62	49	40	3	49	62	120
4HV2□□-08	72.6	45	1.5	PT1/4	11.5	M34 x 1.5	92.5	5	62	49	40	3	49	62	120
4HV3□□-08	88.5	56	1.5	PT1/4	13.5	M40 x 1.5	104	6.6	74	62	51	3	62	74	140
4HV3□□-10	88.5	56	1.5	PT3/8	13.5	M40 x 1.5	104	6.6	74	62	51	3	62	74	140
4HV4□□-15	110.3	72	2	PT1/2	18	M452 x 1.5	126	6.6	102	89	64	3	81	94	160
4HV4□□-20	110.3	72	2	PT3/4	18	M52 x 1.5	126	6.6	102	89	64	3	81	94	160



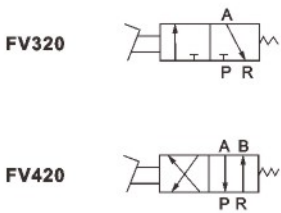
FV320/420 series Foot Valve



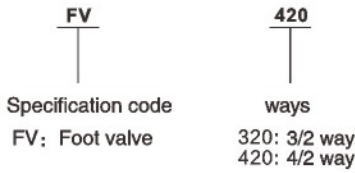
Technical Specification

Model	FV320	FV420
Working Medium	air (filtered by 40UM sieve)	
ports and positions	3/2 way	4/2 way
Action type	directly operated type	
Port size	06:G1/8	08:G1/4
Operating pressure	0~0.8Mpa	
working temperature	-5~60°C(28~140° F)	
Lubrication oil	not need	

Symbol

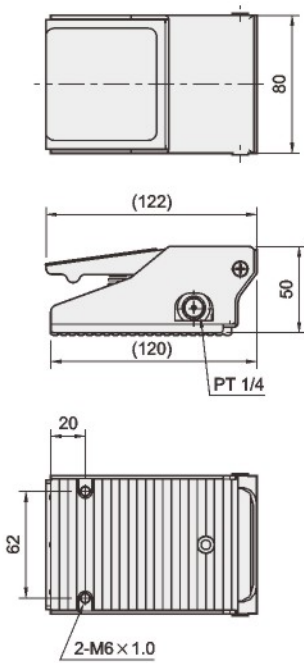


Order Code

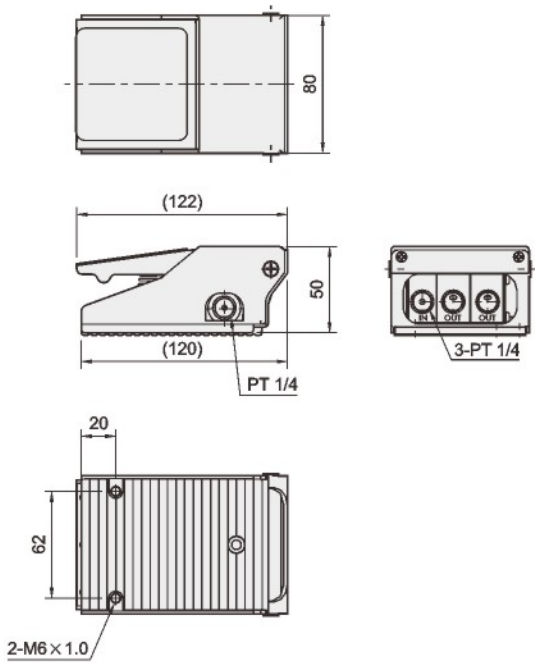


Dimension(mm)

FV320



FV320



4F/FOV series Foot Valve

Technical Specification



Model	4F210-08	4F210-08L	4F210-08F	4F210-08LF
Working Medium	Air(to be filtered by 40 μm filter element)			
Action Mode	foot control directly-action type			
Port Size①	PT1/4			
Position	5/2 way			
Pressure Range	0~0.8MPa (0~114psi)			
Proof pressure	1.5MPa(15bar)(215psi)			
Temperature Range	-5~60°C(Not Frozen)			
body material	Aluminum alloy			
lubrication	No need			

①port thread have NPT G thread option

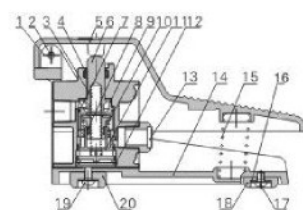
Symbol



Product feature

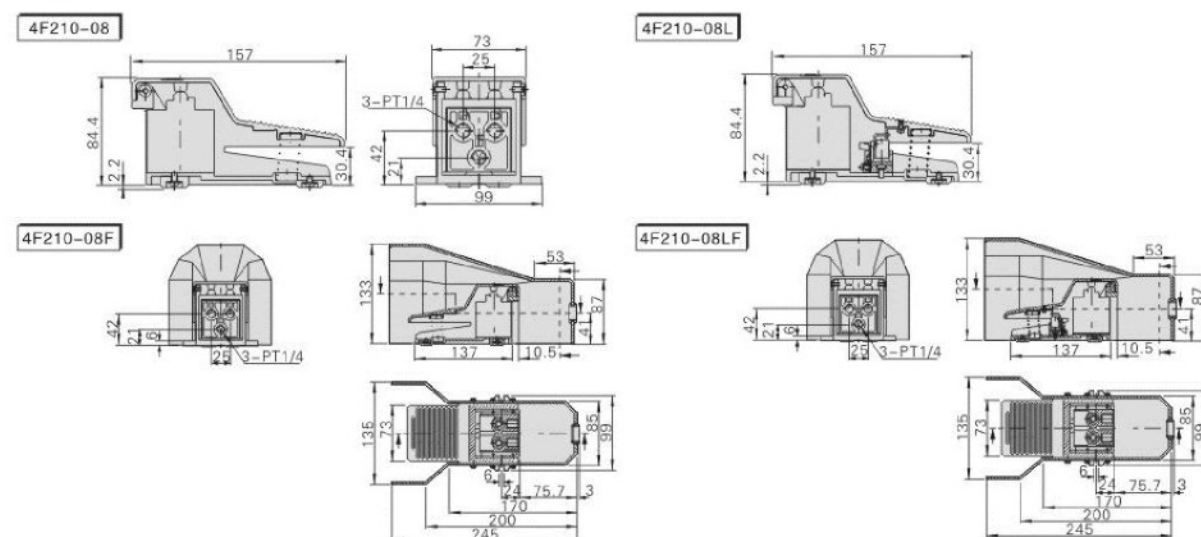
1. aluminum pedal, directly-action design, stable and reliable.
2. if the reversing time is longer, you can choose the lock type.
3. The locking mechanism is stable and reliable, and the unlocking is light and fast. But limited by the size of the structure, can not withstand frequent strong shocks
4. High strength plastic protective cover available

inner construct



No.	item	No.	item	No.	item
1	axle pin	8	O Ring	15	spring
2	countersunk screw snap ring	9	front cover	16	washer
3	spring	10	piston	17	round-head screw
4	E type snap ring	11	bottom cover	18	small foot shim
5	pedal	12	C type snap ring	19	round-head screw
6	Axis core	13	silencer	20	big foot shim
7	O Ring	14	base		

Dimension(mm)



FV/3F/3FM series Foot Valve

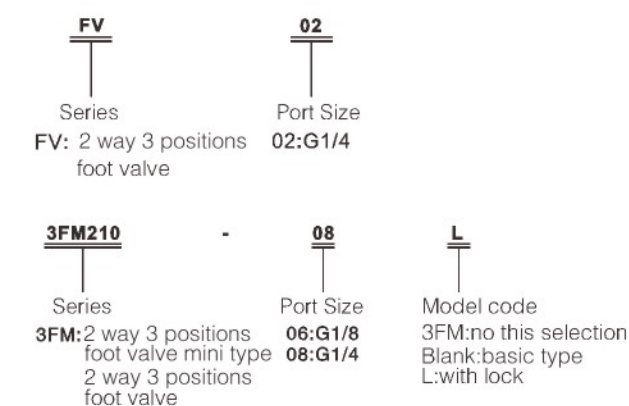
Technical Specification



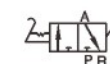
Model	FV-02	3F210-06	3FM210-06	3F210-08	3FM210-08
Working Medium	Air(to be filtered by 40 μm filter element)				
Action Mode	foot control directly-action normal closed type				
Port Size①	G1/8	PT1/8	G1/8	PT1/4	G1/4
Position	3/2 way				
Pressure Range	0~0.8MPa(0~114psi)				
Proof pressure	1.5MPa(15bar)(215psi)				
Temperature Range	-5~60°C(Not Frozen)				
body material	3FM:plastic; 3F:Aluminum alloy				
lubrication	No need				

①port thread have NPT G thread option

Order Code

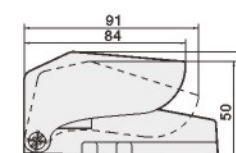


Symbol



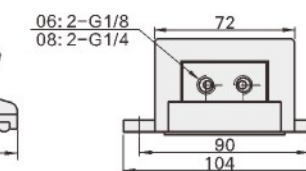
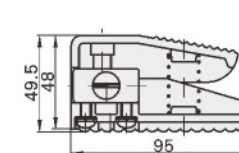
Dimension(mm)

FV-02



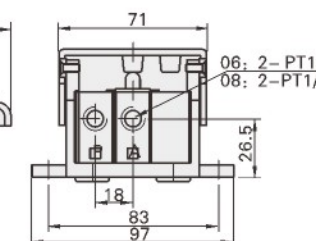
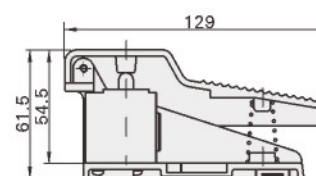
3FM210-06

3FM210-08



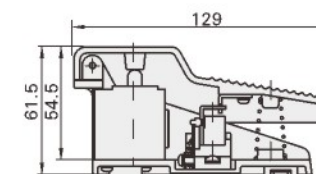
3F210-06

3F210-08



3F210-06L

3F210-08L



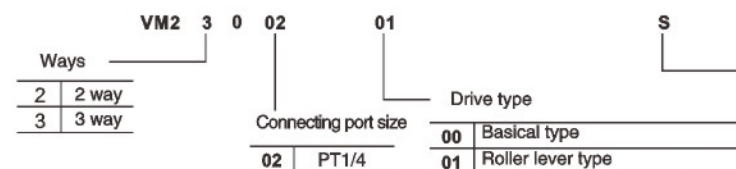
VM200 series Mechanical Valve



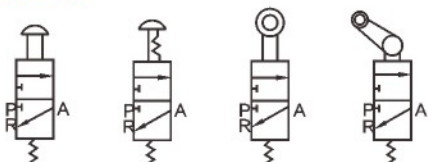
Technical Specification

Working Medium	Air, Inert gases
Working pressure Range	0 ~ 1.0MPa
Environment and Fluid temperature	-5~60℃(Not Frozen)
Effective sectional area (CV value)	19mm ² (1.0)
Port size	PT1/4
Oil Supply	No need (Oil supply using ISO VG32)

Order Codes

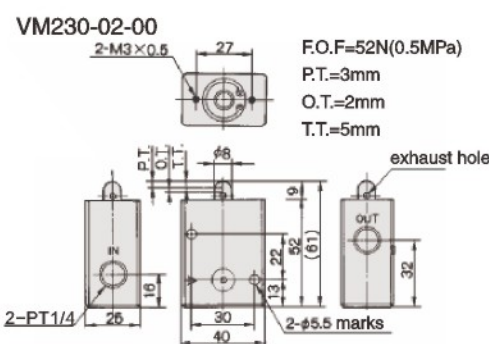


Symbol

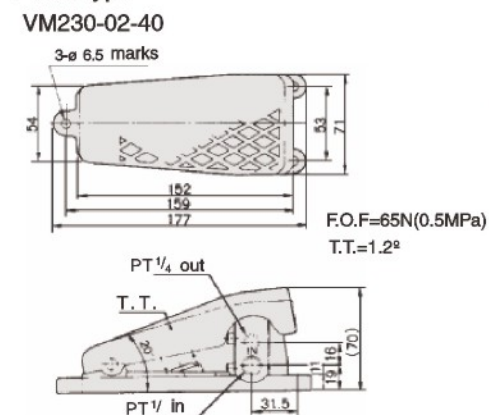


Dimension(mm)

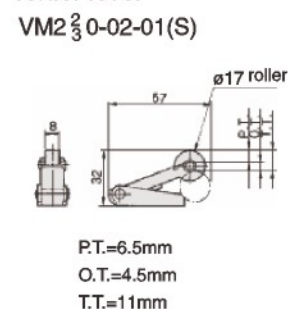
Basic type



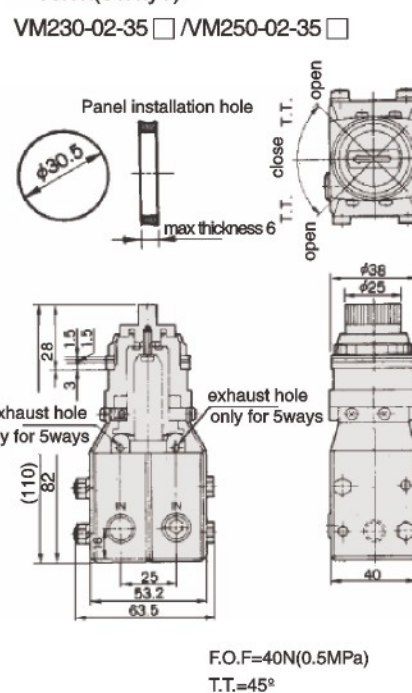
Pedal type



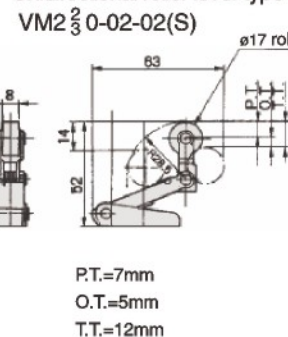
Roller lever



Kont(3ways)



Unidirectional roller lever type



S3 series Mechanical Valve



Technical Specification

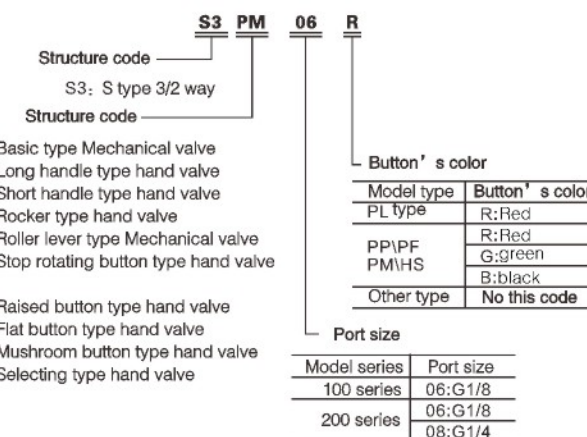
Model	S3B	S3C	S3D	S3V	S3R	S3L	S3Y	S3PM	S3PP	S3PF	S3PL	S3HS
Working Medium	Air (Filtrated by over 40um' s sieve)											
Acting type	Eeternal control direct acting											
Port size ①	05: M5; 06: G1/8; 08: G1/4											
Effective sectional area	05:2.5 mm ² (Cv=0.14); 06:8.0mm ² (Cv=0.45); 08:12.0mm ² (Cv=0.67)											
Ways number	3/2 Way											
Lubrication ②	No need											
Working pressure range	0~0.8MPa											
Guarantee pressure	1.5MPa(215psi)											
Working temperature ℃	-5~60℃(Not Frozen)											
Body material	Aluminium alloy											

- ① Port type has G type for choosing
- ② If adding lubrication, don't stop midway, lubrication is ISOVG32 or same type.

Symbol



Order Code



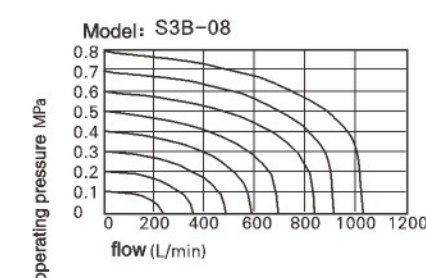
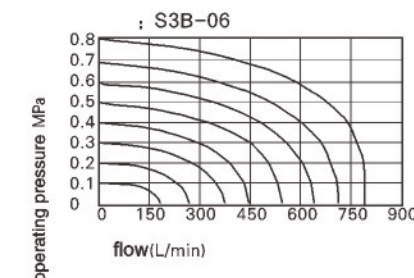
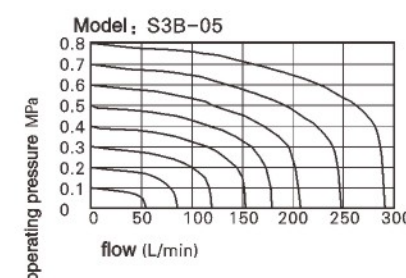
Product Feature

- 1、external force required by S3B、S3R、S3L、S3V series are Provided by external agencies; used in position detection or position switch
- 2、S3PF、S3PM、S3PP、S3PL、S3Y、S3HS、S3C、S3D series are manual type, Multiple structure shape control head, convient for using in different conditions.
- 3、Cut-off structure, Good sealing, Commutation flexibility, No need to add lubricating oil
- 4、S3C、S3D、S3Y、S3R、S3L series' control head are metal type, long life, and More reliable and stable

Product Feature

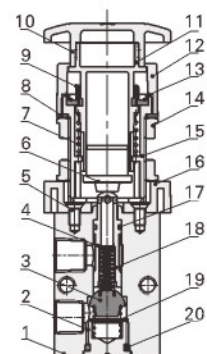
model	spool stroke	pushbutton stroke	spool stroke	pushbutton stroke	roller(hand shank)stroke
S3B	2.4~4.0	—	S3R	2.4~3.4	5.5~7.8
S3PF	2.4~4.0	3.8~5.4	S3L	2.4~3.4	6.0~8.6
S3PP	2.4~4.0	3.8~5.4	S3V	2.4~3.8	3.4~4.8
S3PM	2.4~4.0	3.8~5.4	S3C	2.4~3.8	14.4~18.4
S3PL	2.4~4.0	5.9~7.5	S3D	2.4~3.8	7.4~9.4
S3HS	2.4~4.0	5.1~6.7			

Flow characteristics



Inner construct

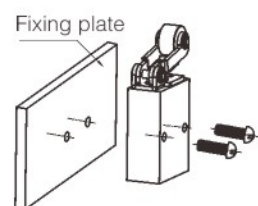
S3PM



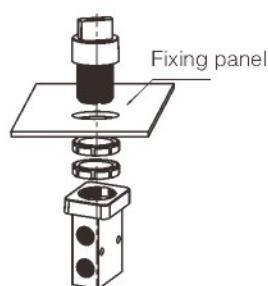
No.	Item	No.	Item	No.	Item	No.	Item
1	Valve body	6	Push button press release	11	Push button body	16	Button fixed block
2	Base	7	Spring	12	Push button cover	17	O ring
3	Nut	8	Fastening washer	13	Push button press ring	18	Spring
4	Axis core	9	Dust-proof guard	14	Fastening nut	19	Spring
5	Cross screw	10	Push button cap	15	Push button fixed	20	O ring

installing and using

Valve body fixing type



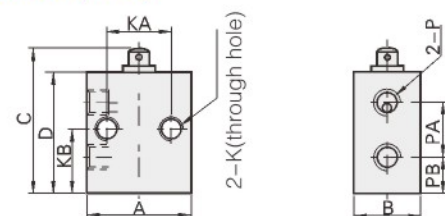
Panel fixing type



Notice:

- 1.the control part is made of engineering plastics, only manual operation is allowed. No metal impact to switch valves s3b s3c s3d s3pm s3pf s3pp series are auto return series. s3y s3hs s3pl series hand valves are manual return series, and for m3pl, when it press into position, need rotating the knob to return back.
- 2.pay attention to the reversing stroke. When any external force makes the valve reversing, the base reversing stroke should not exceed the reversing range specified in the control stroke table, otherwise the valve body will be damaged
- 3.s3l one-way rolling-wheel valve as long as one direction can make the valve switch (from right to left impact). Invalid impact in the other direction (left to right)
- 4.control head units can order separately.

Dimension(mm)



Model	A	B	C	D	K	KA	KB	P	PA	PB
05 type	26	16.5	36	30	M5x0.8	16	15	M5x0.8	13	9
06 type	30	16.5	47	41	M5x0.8	23	20.5	G1/8	17.5	11.5
08 type	34	17.5	52	46	M5x0.8	24	22.5	G1/4	21	12

Common type control head external specification

Model	Long shank type		Short shank type		shake shank type	
	Order code	Specification	Order code	Specification	Order code	Specification
Order mode	M3C210-P13A	M3C210 long shank units	M3D210-P13A	M3C210 short shank units	M3Y210-P13A	M3C210 shake shank units
Applicable products	S3C110、S3C210		S3D110、S3D210		S3Y110、S3Y210	
Outer dimension						

Vm100 series mechanical valve

Technical specification

Working Medium	Air, Inert gases
Working pressure Range	-0.1 ~ 1.0MPa
Environment and Fluid temperature	-5 ~ 60°C (Not Frozen)
Effective sectional area (CV value)	2.5mm ² (0.14)
Port size	side connected G1/8, below connected M5×0.8
Oil Supply	No need (Oil supply using ISO VG32)



Order code

Ways

2	2 way
3	3 way

connect pipe position and pipe length

0	long	side connected
1	short	below connected
2	long	below connected
3	short	below connected

VM1 3 1 01 01

Connecting port size

01	PT1/8
----	-------

S ☐

indicator light mark

Z	with small indicator light
---	----------------------------

Symbol

Drive type

00	Basic type
01	Roller lever type
02	Unidirectional roller lever type
05	Straight plunger
06	Roller plunger
07	Transverse plunger
08	Toggle type
30	Mushroom type
32	Button type lead out type
33	Flat type
34	Knot type (2位)
35	Knot type (3位)
36	Lock knot type (2位)

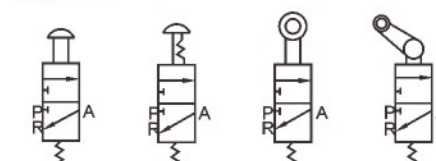
Driver marks

S	Roller material. Hard steel
R	Red
B	Black
G	Green
Y	Yellow

can combine ○, can't combine ×

Drive type	Length of rod			
	side connected long	side connected short	below connected long	below connected short
Basic type	00	○	○	○
Roller lever type	01	×	○	×
Unidirectional roller lever type	02	×	○	×
Straight plunger	05	×	○	×
Roller plunger	06	○	×	○
Transverse plunger	07	○	×	○
Toggle type	08	○	×	○
Mushroom type	30	×	○	×
lead out type	32	○	×	○
Flat type	33	○	×	○
Knot type(2ways)	34	○	×	○
Knot type(3ways)	35	×	○	×
Lock knot type(2ways)	36	○	×	○

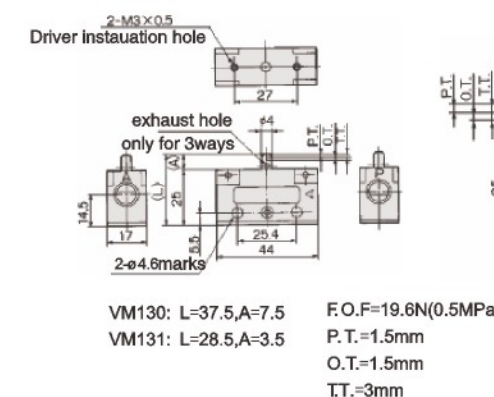
Symbol



Dimension(mm)

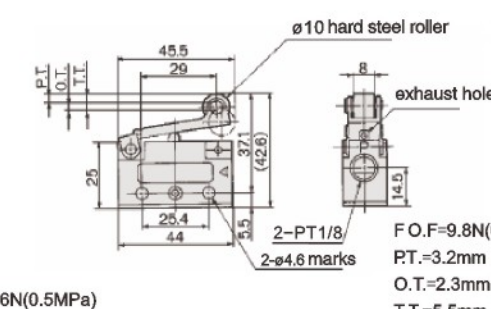
Basical type

VM130-01-00/ VM131-01-00



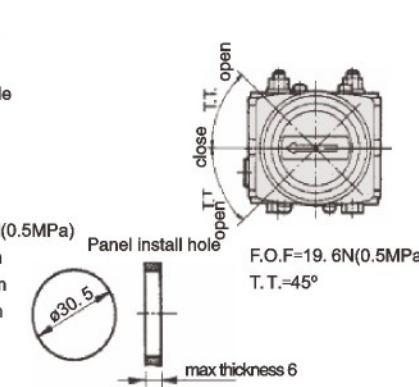
Roller lever type

VM131-01-01(S)



Knot type (3ways)

VM131-01-35□ VM151-01-35□

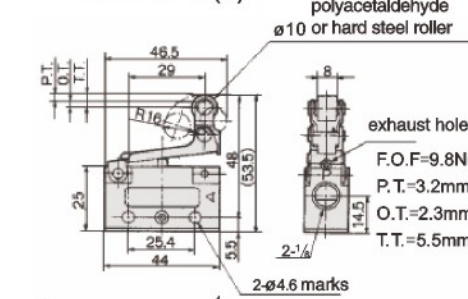


Toggle type

VM130-01-08

Unidirectional roller lever type

VM131-01-02(S)



Panel installation hole

max thickness 6

exhaust hole

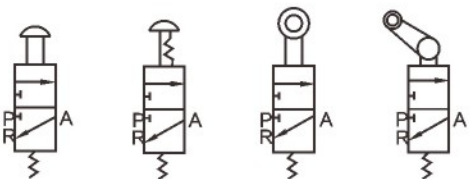
only for 5ways

3-PT1/8

JM322 series Mechanical Valve



Symbol



Order Code

JM **32** **2** **R**

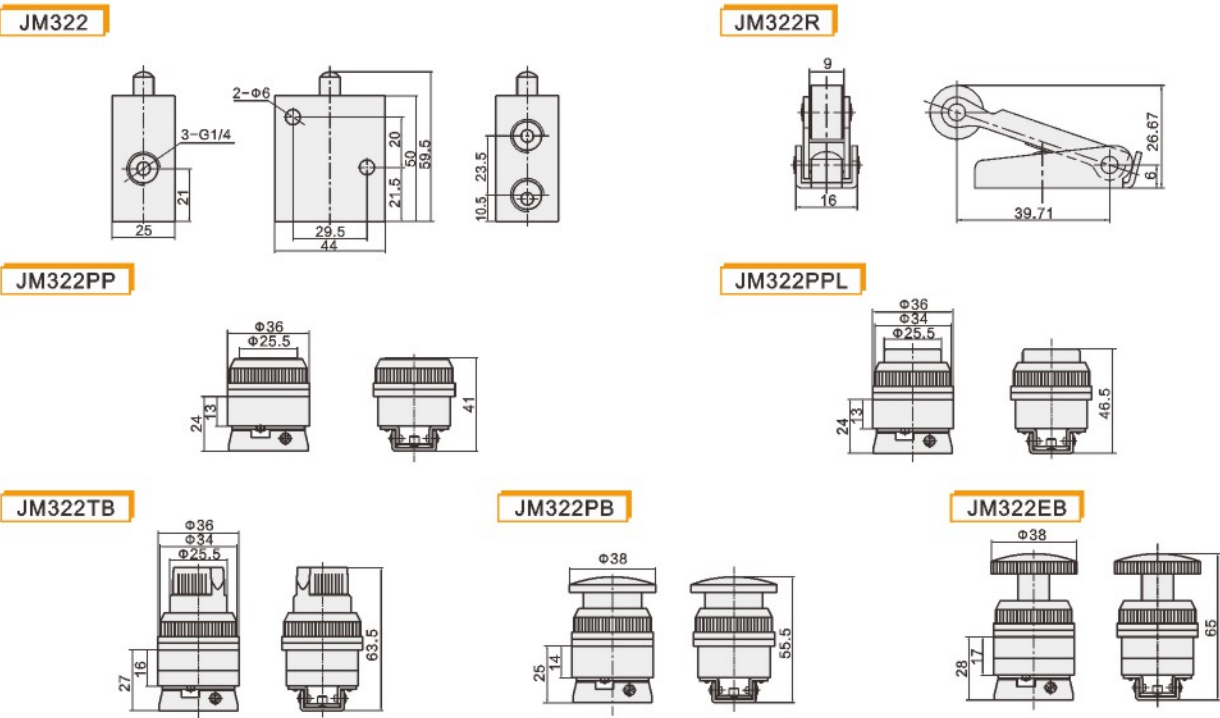
Specification code Ways code Port size Button type

JM series 32:3/2 Way 2:G1/4 Blank:Basic type
Mechanical Valve R: Roller type
TB: Selecting type button
EB: Lock type button
PP: Flat type button
PPL: Convex type button
PB: Big circle type

Technical Specification

Models	JM322	JM322R	JM322PP	JM322PPL	JM322PB	JM322EB	JM322TB
Working Medium	air (filtered by 40UM sieve)						
Acting mode	Direct type						
Port size	08:G1/4						
Working pressure	0~0.8Mpa						
Working temperature	-5~60℃(Not Frozen)						
Lubricating	No need						

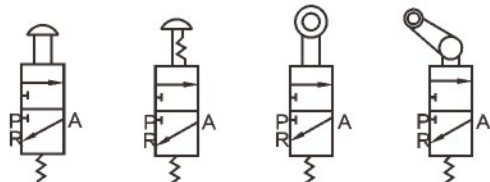
Dimension(mm)



MOV321 series Mechanical Valve



Symbol



Order Code

MOV **32** **1** **R**

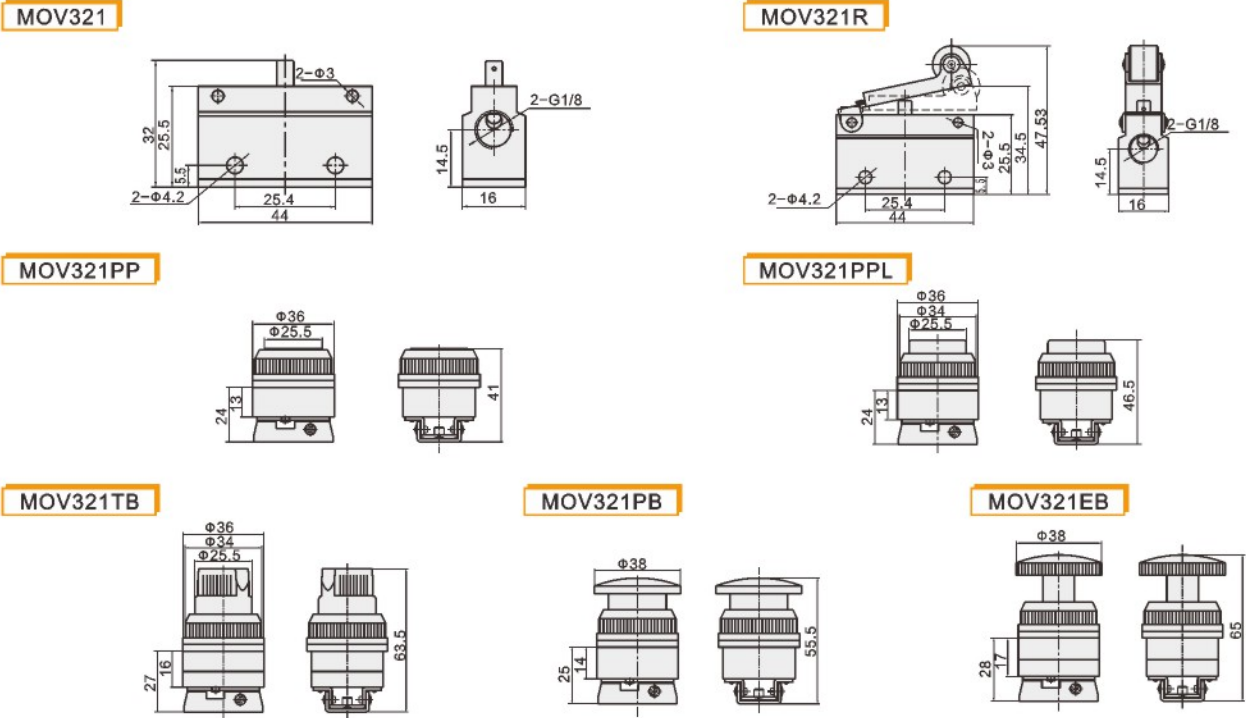
Specification code Ways code Port size Button type

Mov series 32: 3/2 Way 1:G1/8 Blank:Basic type
mechanical valve R: Roller type
TB: Selecting type button
EB: Lock type button
PP: Flat type button
PPL: Convex type button
PB: Big circle type

Technical Specification

Models	MOV321	MOV321R	MOV321PP	MOV321PPL	MOV321PB	MOV321EB	MOV321TB
Working Medium	air (filtered by 40UM sieve)						
Acting mode	Direct type						
Port size	06:G1/8						
Working pressure	0~0.8Mpa						
Working temperature	-5~60℃(Not Frozen)						
Lubricating	No need						

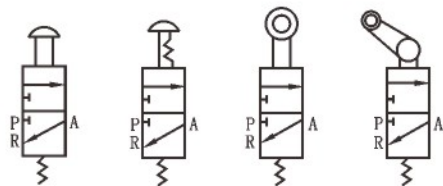
Dimension(mm)



MV322 series Mechanical Valve



Symbol



Order Code

MV

Specification code
MV series
mechanical valve

32

Ways code
32: 3/2 Way

2

Port size
2: G1/4

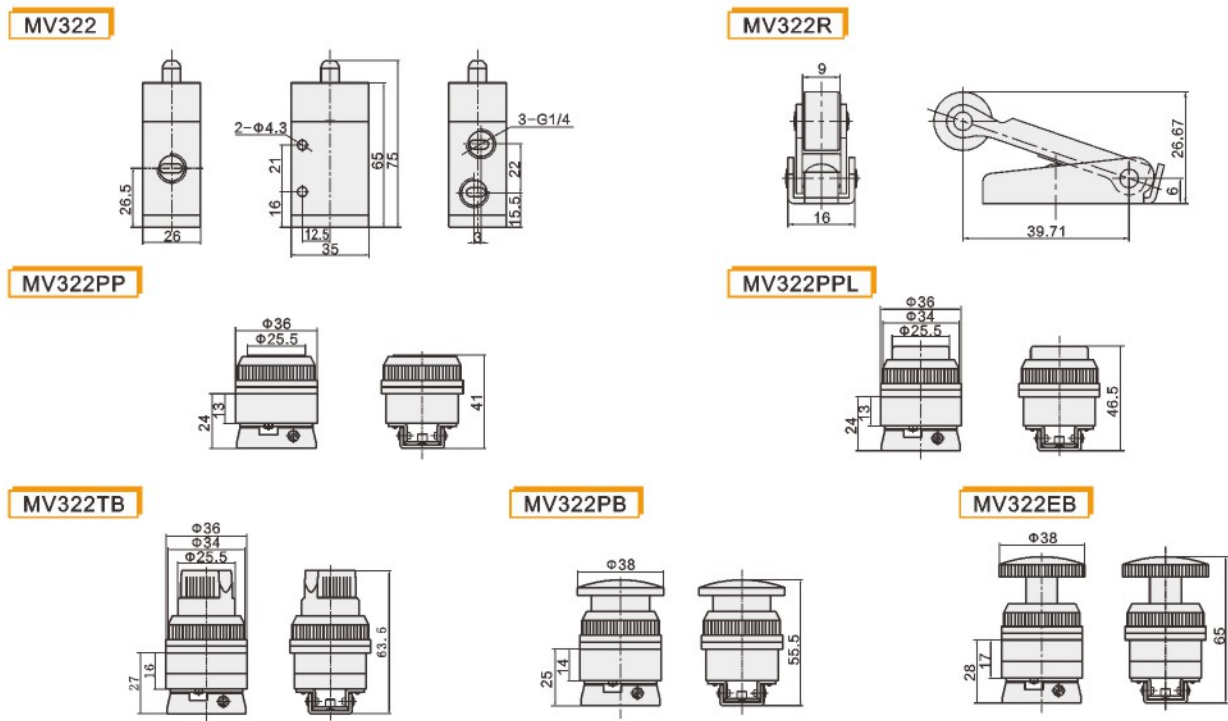
R

Button type
Blank: Basic type
R: Roller type
TB: Selecting type button
EB: Lock type button
PP: Flat type button
PPL: Convex type button
PB: Big circle type

Technical Specification

Models	MV322	MV322R	MV322PP	MV322PPL	MV322PB	MV322EB	MV322TB
Working Medium	air (filtered by 40UM sieve)						
Acting mode	Direct type						
Port size	08: G1/4						
Working pressure	0~0.8Mpa						
Working temperature	-5~60℃(Not Frozen)						
Lubricating	No need						

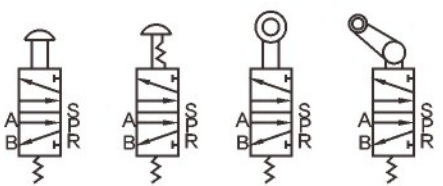
Dimension(mm)



MV522 series Mechanical Valve



Symbol



Order Code

MV

Specification code
MV series
Mechanical Valve

52

Ways code
52: 5/2Way

2

Port size
2: G1/4

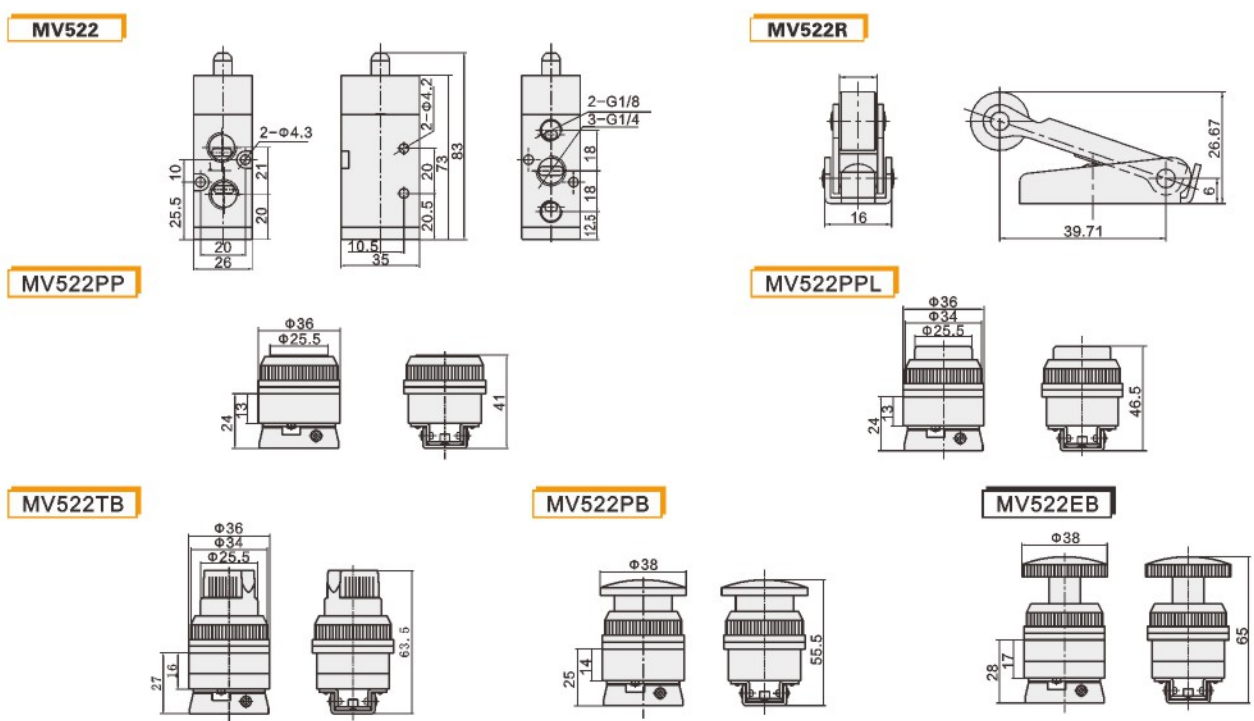
R

Button type
Blank: Basic type
R: Roller type
TB: Selecting type button
EB: Lock type button
PP: Flat type button
PPL: Convex type button
PB: Big circle type

Technical Specification

Models	MV522	MV522R	MV522PP	MV522PPL	MV522PB	MV522EB	MV522TB
Working Medium	air (filtered by 40UM sieve)						
Acting mode	Direct type						
Port size	08: G1/4						
Working pressure	0~0.8Mpa						
Working temperature	-5~60℃(Not Frozen)						
Lubricating	No need						

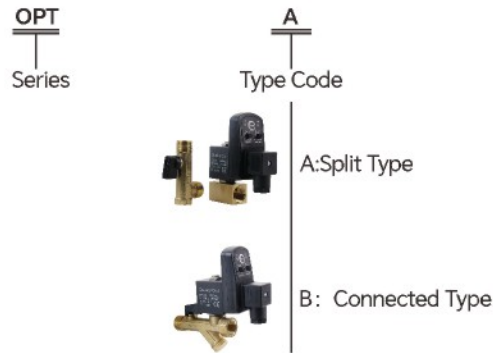
Dimension(mm)



OPT Series Electronic Drain Valve



Order Code

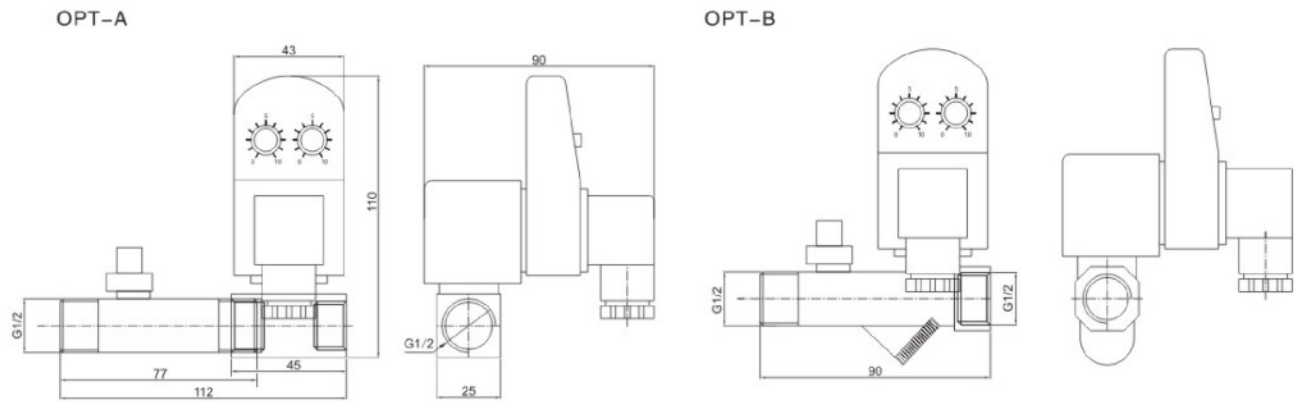


Technical Specification

Timer		OPT-A/OPT-B	
Interval Time(OFF)		0.5~45Mins	
Discharge Time(ON)		0.5~10S	
Manual Test Button		Manual Switch , Micro Switch	
Power Supply		24~240VAC/DC50/60Hz (AC380VAC can be customize)	
Current Consumption		Max.4mA	
Temperature		-40~+60°C	
Waterproofing Grade		IP65 (After correct installation)	
Shell Material		Flame Retardant ABSPI	
Electrical Connection		DIN43650A	
Indicator		LED Indicator On/Off	

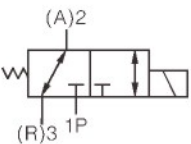
Valve		OPT-A	OPT-B
Type		2/2Port Direct-acting Solenoid Valve	2/2Port Direct-acting Solenoid Valve
Inlet/outlet interface size		G1/2	Inlet G1/2Male Thread、Output G1/2Female Thread
Max.Working Pressure		1.0MPa	
Lowest/Highest Ambient Temperature		2°C/55°C	
Highest Medium Temperature		90°C	
Valve Body		Brass(Stainless Steel can be customized)	Brass
Insulation Grade		H level	
Waterproofing Grade		IP65	
Voltage		DC24,AC220V	
Voltage Range		±10%	

Dimension



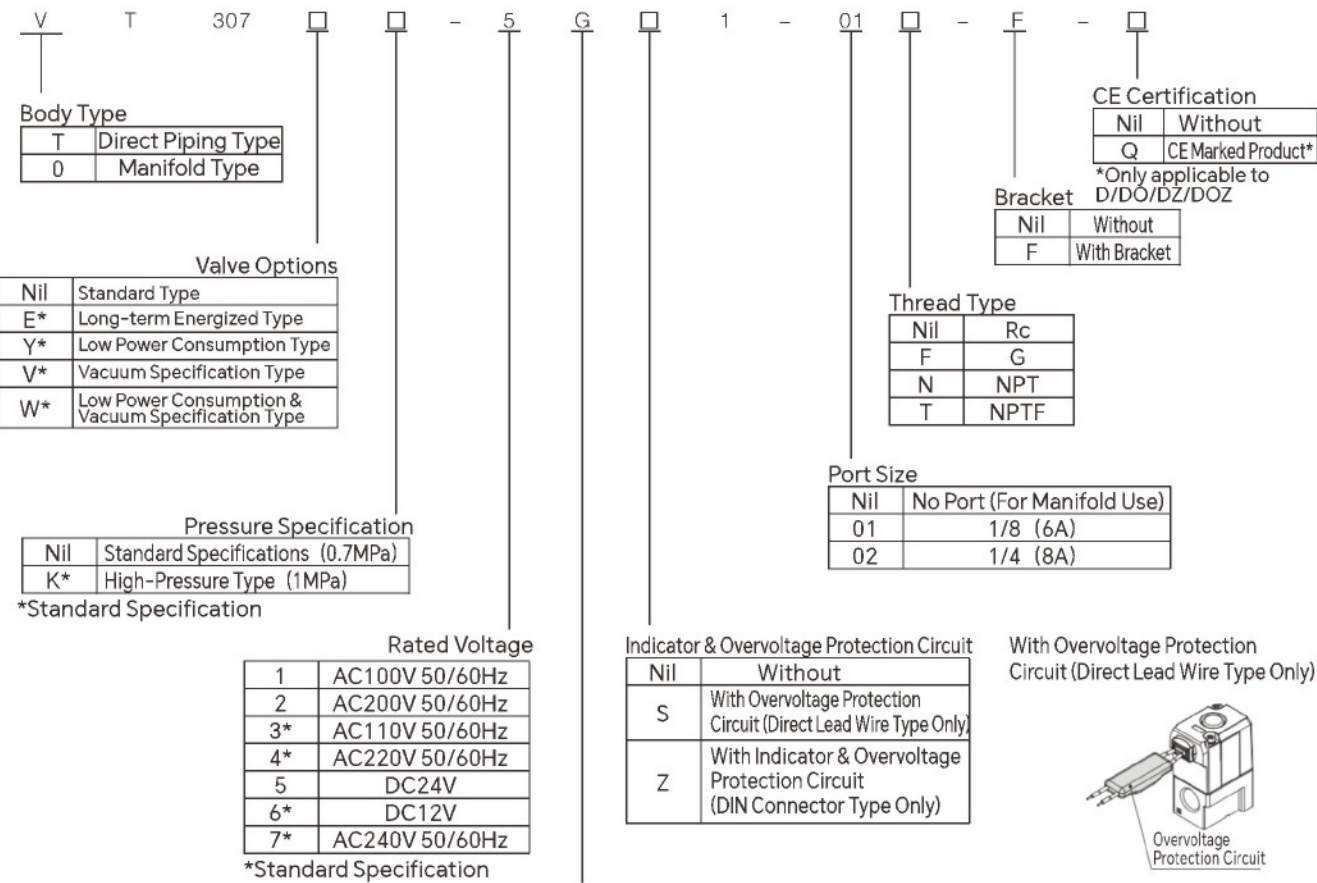
VT307 Series High-Frequency Valve

Symbol



Note:
For unused ports, please take measures to prevent dust or foreign objects from entering.

Order type



No Port (For Manifold Use)

Series	Use container form	Accessories
vo307□(-Q)	Common or Individual Exhaust Type	Switching Plate (DXT152-14-1A) Mounting Screws (NXT013-3)

(Note: Long-term energized types differ.)

Options

Product Name	Part Number
Bracket	DXT152-25-1A (With Screws)

Standard Specifications

Switching Method	Direct Acting, 2-Position, Single Coil	
Working Medium	Compressed air	
Pressure Range	0~1MPa (High-Pressure Type) 0~0.7MPa(Standard Type)	
Ambient and Fluid Temperature	-10~50°C (Unfrozen)	
Response Time	20ms以下 (0.5MPa時)	
Maximum Operating Frequency	10Hz	
Lubrication	Not Required (Use Turbine Oil ISO VG32 if lubricated)	
Manual Operation	Non-locking Push Type	
Mounting Method	Free Mounting	
Shock/Vibration Resistance	150/50 m/s ²	
Protection Class	Dustproof	

Lead Wire Method		Direct Lead Wire, DIN Connector Type	
Coil Rated Voltage V	AC(50/60Hz)	100, 200, 110※、220※、240	
	DC	24, 12	
Allowable Voltage Variation		-15%~+10% of Rated Voltage	
Apparent Power	AC	Start-up	12.7VA (50Hz) 10.7VA (60Hz)
		Excitation	7.6VA (50Hz) 5.4VA (60Hz)
Power Consumption Indicator & Overvoltage Protection Circuit(Only for DIN Connector Type)	DC	Without Indicator: 4W, With Indicator: 4.2W	
	AC	Varistor, LED	
	DC	Diode, LED	

Standard Specification
 Note 1) Based on JISB8374-1981 dynamic test. (Coil temperature 20°C, rated voltage, without overvoltage protection circuit.)
 Note 2) Shock Resistance: No malfunction after one trial in both axial and perpendicular directions of the main valve and moving core with energized and non-energized conditions using a drop shock tester. (Initial Value)
 Note 3) When inputting rated voltage.
 Note 4) For long-term energized types (VT307E) and low power consumption types (VT307Y, VT307W), values change accordingly. Please refer to the standard

specifications	Port Size	Flow Characteristics												Mass
		1→2 (P→A)			2→3 (A→R)			3→2 (R→A)			2→1 (A→P)			
		C(dm³/s-bar)	b	Cv	C(dm³/s-bar)	b	Cv	C(dm³/s-bar)	b	Cv	C(dm³/s-bar)	b	Cv	
Vt307														0.15kg
VT307V (Vacuum Specification Type)		0.71	0.35	0.18	0.68	0.27	0.17	0.65	0.36	0.17	0.63	0.35	0.17	
VT307E (Long-term Energized Type)														
VT307Y (Low Power Consumption Type)		0.41	0.26	0.10	0.44	0.35	0.11	0.48	0.27	0.12	0.35	0.33	0.10	
VT307W (Low Power Consumption TypeVacuum Specification Type)														
VT307		0.71	0.31	0.19	0.71	0.25	0.17	0.68	0.33	0.17	0.71	0.26	0.18	
VT307V (Vacuum Specification Type)														
VT307E (Long-term Energized Type)														
VT307Y (Low Power Consumption Type)		0.49	0.20	0.12	0.44	0.34	0.11	0.48	0.17	0.12	0.46	0.28	0.11	
VT307W (Low Power Consumption Type Vacuum Specification Type)														

(Note: Values differ between individual valves and manifold assemblies.)

Standard Specification

Long-term Energized Type: VT307E

For long-term continuous energization, use this specification.

Note:

1. Long-term energized types cannot be used at high frequencies, and when the frequency is less than once per day, please consult our company. 2. At least once every 30 days, switch once.

The following specifications differ from the standard product:

Apparent Power/AC	Start-up	7.9VA(50Hz), 6.2VA(60Hz)
	Excitation	5.8VA(50Hz), 3.5VA(60Hz)
Power Consumption/DC	1.8W, with indicator 2W	
Response Time	Less than 30ms (at 0.5MPa)	

(Note: Please refer to the standard specifications Note 1.)

Long-term Energized Type: VT307E

For applications like electronic control where low power consumption is required, consider using the 1.8W VT307Y(W).

The following specifications differ from the standard product:

Power Consumption/DC	1.8W, with indicator 2W
Response Time	Less than 25ms (at 0.5MPa)

(Note: Please refer to the standard specifications Note 1.)

Long-term Energized Type: VT307E

This vacuum specification solenoid valve, compared to standard products, limits air leakage under low pressure. Consider using it for vacuum applications.

Note:

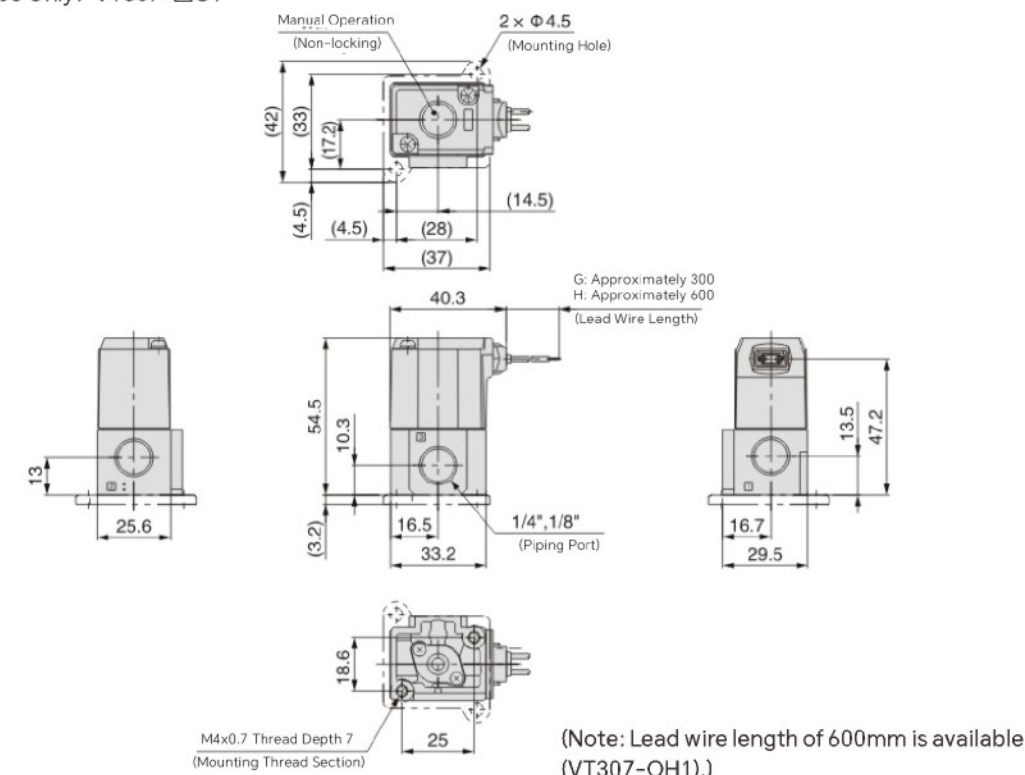
This solenoid valve has air leakage and cannot be used for vacuum retention in pressure vessels.

The following specifications differ from the standard product:

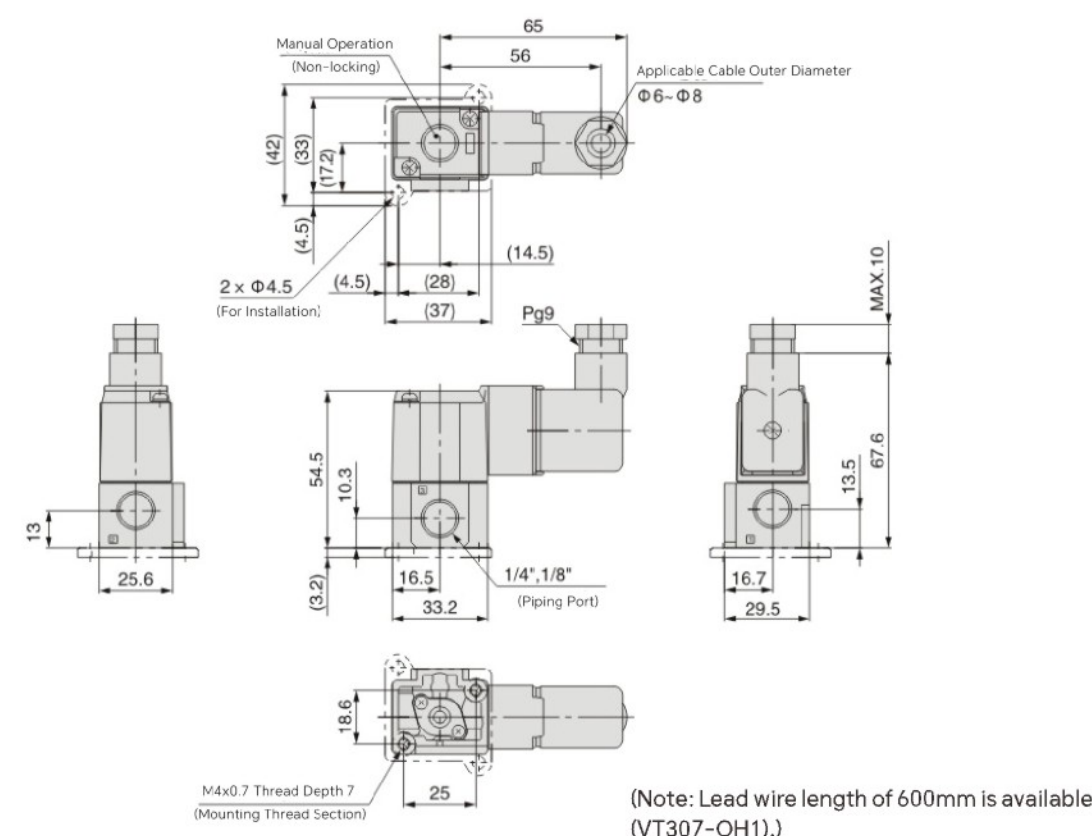
Pressure Range	-101.2kPa~0.1MPa
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Dimension Diagram

Direct Lead Wire Type Only: VT307-□G1



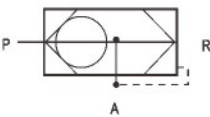
DIN Connector Type Only: VT307-□D1



QE series Quick Exhaust Valve



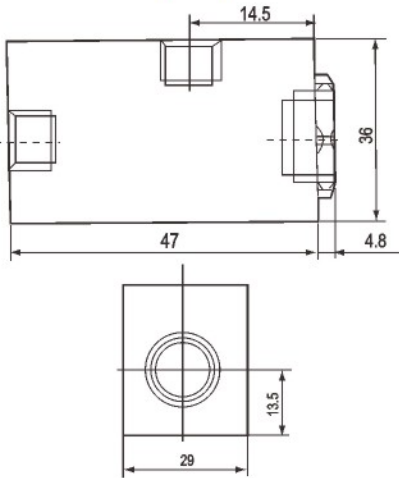
Symbol



Order Code

QE	-	02
Series Code		Port Size
		01:1/8"
		02:1/4"
		03:3/8"
		04:1/2"

Dimension(mm)



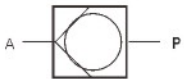
Technical Specification

Model	QE-01	QE-02	QE-03	QE-04
Working Medium	Air			
Port Size	1/8"	1/4"	3/8"	1/2"
Working pressure range	0~1.0MPa			
Working temperature range	-5~60°C(Not Frozen)			
Weight(kg)				
Main Material	Body	Aluminum Alloy		
	O ring	NBR		

CV series Non-return Valve

Color: black blue red white

Symbol



Order Code

CV	-	01
Series Code		Port Size
		01:1/8"
		02:1/4"
		03:3/8"
		04:1/2"



Technical Specification

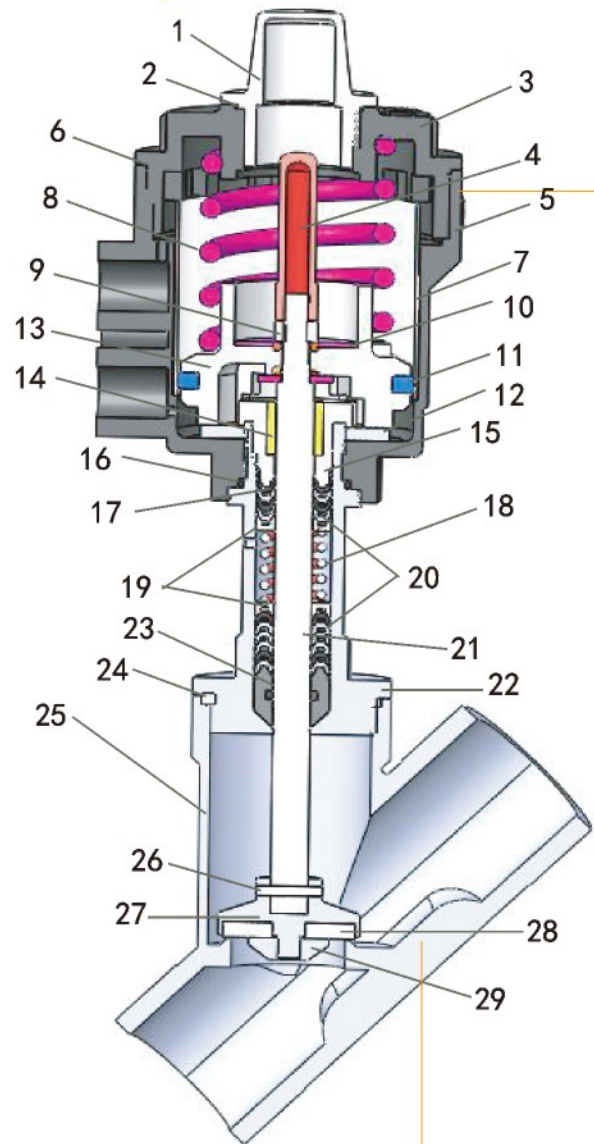
Model	CV-01	CV-02	CV-03	CV-04
Working Medium	Air			
Port Size	1/8"	1/4"	3/8"	1/2"
Working pressure range	0~1.0MPa			
Working temperature range	-5~60°C(Not Frozen)			
Weight(kg)				
Main Material	Body	Brass		
	O ring	NBR		



Ordering Illustration

 Series 100 Angle seat valve Female thread Ends; Actuator:PX NAMUR Interface; NO type; Actuator size:50mm; PV100PX02050NOSM	 Series 100 Angle seat valve Female thread Ends; Actuator:PR Clean Port; N.C. type; Actuator size:90mm; PV100PR04090NCSG	 Series 200 Angle seat valve Union Pipe Ends; Actuator:PR Clean Port N.C. type; Actuator size:50mm; PV100PR02550NCSG
 Series 301 Angle seat valve Butt weld Ends; Actuator: S.S. N.C. type; Actuator size:50mm; PV301S02550NCSG	 Series 400 Angle seat valve Flanged Ends; Actuator:PX NAMUR Inter -face; N.C. type; Actuator size:50mm; PV400PX02550NCSM	 Series 500 Angle seat valve Tri-Clamp Ends; Actuator:PX NAMUR Interface; N.C. type; Actuator size:50mm; PV500PX02550NCSM
 Series 600 Angle seat valve Gunmetal Body; Actuator:PX NAMUR Inter -face; N.C. type; Actuator size:63mm; PV600PX02563NCSM	 Series 102 Angle seat valve Female thread Ends; Actuator:SD Polished; N.C. type; Actuator size:50mm; PV102PX02550NCSM	 Series 102 Angle seat valve Female Thread Ends; Actuator: Aluminium; N.C. type; Actuator size:80mm; PV112A05080NCSG
 Series 101 Ultra-compact Angle seat valve, Female Thread Ends ; Actuator:PR Clean port; N.C. type, Single acting; Actuator size:32mm; PV101PR01532NCSG	 Series 102 Compact Angle seat valve, Female thread Ends; Adopt to series 800 compact Valve body with Mini stem Actuator: P type Classic N.C. type, Actuator size:50mm; PV122P01550NCSG	 Series 7A Filling valve, Female thread Ends; Double acting N.C. or Double Liberty; Actuator: S.S. type Actuator size:27mm; PV701S01527NC
 Series 7B Filling valve, Female thread Ends; Double acting N.C. or Double Liberty; Actuator: S.S. type Actuator size:27mm; PV702S01527NC	 Series 800 Compact Angle seat valve, Female thread Ends; Actuator: AD type Alumium Cylinder, N.C. type, Actuator size:40mm; PV800AD02540NCD	 Series 900 Compact Angle seat valve, Female thread Ends; Actuator: AX type Alumium Cylinder, N.C. type, Actuator size:32mm; PV900AD02032NCD

Materials Type





1. Transparent cap	PC
2. O-ring	NBR/FKM
3. Front Cover of actuator	PA66
4. Position indicator	Nylon
5. Body of actuator	PA66
6. O-ring	NBR/FKM
7. Lining	Stainless steel
8. Spring	60Si2MnA
9. Nut	Stainless steel
10. Pad	Stainless steel
11. Piston seal	NBR/FKM
12. Belleville spring	60Si2MnA
13. Piston	Nylon
14. Bearing	Bronze
15. Lock nut	Iron 45
16. O-ring	NBR/FKM
17. V-sealing	PTFE+graphite
18. Spring	Stainless steel
19. Spring seat	Brass
20. V-sealing	PTFE
21. Spindle	Stainless steel
22. Binding post	Stainless steel / brass
23. Wiper	PTFE/PEEK
24. Sealing ring	PTFE
25. Valve body	Stainless steel / Gunmetal
26. Pins	Stainless steel
27. Swivel plate	Stainless steel
28. Seals	PTFE/FKM
29. Traffic cone	Stainless steel

How to Order

Series

PV 1 0 0 PX 015 50 NC S M SV1

1 female thread

2 male thread

3A butt weld ends

3B socket weld ends

4 flange ends

5 tri-clamp ends

6 gunmetal body

7A filling valve

7B filling valve

7C filling valve

8 mini compact valve

9 mini compact angle valve

Type of Actuator

P nylon PA66 clean port

PX nylon PA66 built-in SS liner NAMUR port

PR nylon PA66 built-in SS liner clean port

SD S.S. polished actuator

S S.S. actuator

A aluminium actuator

AD mini cylinder actuator

AX compact cylinder actuator

Port size

08 1/4"

010 3/8"

015 1/2"

020 3/4"

025 1"

032 1-1/4"

040 1-1/2"

050 2"

065 2-1/2"

100 4"

Acting type

S Single acting

D Double acting

Control Function

NO Normally Open

NC Normally Closed

DA Liberty (double acting)

Flow Direction

M flow direction above seat

G flow direction below seat

T flow via two way

Thread type

Blank BSP(G)

N NPT

R PT(Rc)

Seal/Seat

Blank Seal Seat

B1 NBR VITON

V1 VITON PTFE

V2 VITON PEEK

Body material

Blank S.S.304

T1 S.S.316

T2 S.S316L

T3 Gunmetal (Rg5)

Solenoid Valve

SV1 AX23-06/08 S.S parts

SV2 3/2-way solenoid valve SV1-06

SV3 3/2-way solenoid valve EV25/23-31-10

SV4 5/2-way change-over NAMUR solenoid valve EV2531M-10

SV5 5/2-way NAMUR solenoid valve DX23-06/08 brass body

SV6 3/2-way solenoid valve

Actuator Size

	Standard Actuator Size mm							
	PA	S _①	A	SD	PX	PR _②	AD _③	AX _④
DN08	40,50	27,32,40,50	40,50	40,50	40,50	32,40,50	25	
DN10	40,50	27,32,40,50	40,50	40,50	40,50	32,40,50	25	32
DN15	32,40,50	27,32,40,50	40,50	40,50	40,50	32,40,50	32	32
DN20	40,50,63	40,50,63	40,50,63	40,50,63	40,50,63	32,40,50,63	32	32
DN25	50,63,80,100	50,63,90,125	50,63,80	50,63,90	50,63,90	50,63,90	40	
DN32	63,80,100	63,90,125	63,80	63,90	63,90	63,90	50	
DN40	63,80,100	63,90,125	63,80	63,90	63,90	63,90	63	
DN50	63,80,100	63,90,125	63,80	63,90	63,90	63,90	63	
DN65	80,100	90,125	80	90	90	90,110		
DN80	100,125	125,160		110	110	110		
DN100	125	125,160		110	110	110		

Accessories

Proximity Switch for Position Feedback

PVS514 **PVS414** **PVS314**

Manual Overrided for Stroke Limiting

PVM10 **PVM20**

Process Controller

PVT1000L **PVT100** **PVT200**

Position locator

PVT300 **PVT400**

Type of Stem

0 standard stem

1 midi stem

2 mini stem

3 no stem_⑤

Note:

① serie S 27/32mm is mainly used in filling valve.

② serie PR 32mm is mainly used in mini type angle seat valve.

③ serie AD 32mm is mainly used in compact angle seat valve.

④ serie AX 32mm is mainly used in mini compact angle seat valve.

⑤ this code only works with AD & AX actuators.

⑥ this code only works with Series PV500.

GENERAL FEATURES

- High flow due to angle seat design
- Anti-waterhammer design (fluid entry under the disc)
- Standard gland packing suitable for Vacuum up to 10⁻²mbar
- Wide range of piston-type operators (32 - 40 - 50- 63 - 90 - 110 mm dia.) rotatable through 360°, for maximum performance at different minimum pilot pressures
- High performance, maintenance-free stuffing box
- Valve body material: AISI 304, AISI 316, AISI316L and Gunmetal
- Valve ends: Female thread, Male thread, Butt welds, Socket welds, Flange ends, and Tri-clamp ends.
- Range available from 1/4" to 4" in the double acting versions, spring return N.C. from above and below the seat, spring return N.O. from below the seat.
- The variations in the actioning of the valve, the several combinations and the possibility to intercept the fluid from above or below the seat, originate multiple versions of the automatic valve.
- On the basis of the kind of valve and the variations of pressure that must be intercepted, the necessary control pressure can be individuated, and consequently, the code for the corresponding valve.

Characteristics

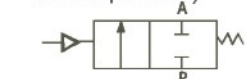
Orifice	DN08...100
Body materials	Cast stainless steel 304,316,316L, gunmetal
Actuator material	PA (Glass fibre filled PA) Stainless steel 304 Aluminium
Seal material	PTFE(NBR,FKM,EPDM on request)
Medium	Air,water, alcohol,oils, fuel, hydraulic fluids,salt solution, alkali solutions,organic solvents, steam
Pressure	0-16Bar (steam from 180°C, from 0 to 10Bar) depending on the size and model chosen (see catalogue for details)
Viscosity	Max.600cst (mm ² /s)
Packing gland (with silicone grease)	PTFE V-ring with spring compensation
Medium temperature	-10 to +180 °C with PTFE seal
Ambient temperature	PA nylon -10 to 90 °C Stainless steel -10 to 150 °C Aluminium -10 to 150 °C
Installation	As required, preferably with actuator in upright position The valves can be mounted in any position without affecting operation Pipe connections (G*) have standard combination thread according to ISO 228/1 and ISO 7/1 Installation/maintenance instructions are included with each valve
Control medium	Neutral gases, air
Max.pilot pressure	PA nylon actuator size Ø32...63 10 bar PA nylon actuator size Ø90...110 8 bar Stainless steel 10 bar Aluminium 10 bar
Connection	Female thread ends Male thread ends Butt weld ends Socket weld ends Flange ends Tri-clamp ends Gunmetal body

Options and accessories

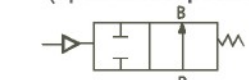
- Signaling box or compact signaling unit
- Stroke limiter for opening
- Manual safety device
- Positioner for proportional control
- Optical position indicator on 32, 40, 50, 63, 90, 110mm.
- NAMUR port mounting pilot is optional, except to 32mm
- NET-INOX passivation treatment on stainless steel body valve
- ATEX 94/9/EC versions for potentially explosive atmospheres
- Polit operated drain valve assembly with electronic timer (see solenoids, coils & Accessories sections)
- Male thread, Weld end, clamp and flange end connections are available on request
- Vacuum applications up to 9x10⁻³ mbar

Symbol

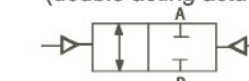
Control Function A
(closed by spring force in rest position)



Control Function B
(open in rest position)



Control Function I
(double acting actuator)

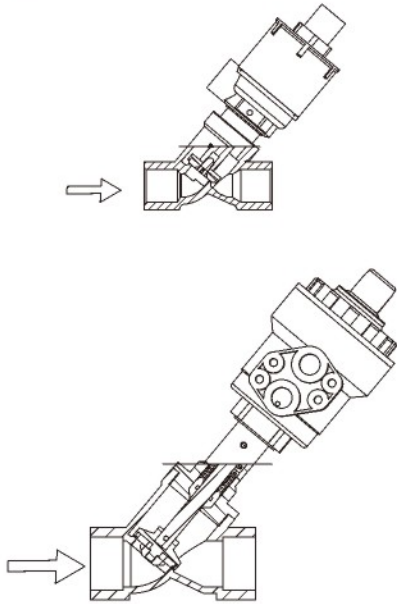


Applications

- Industrial gas compression and separation
- Biological gas generation
- Industrial steam sterilization and separation
- Heat-exchange system.
- Polystyrene foaming and packaging
- Beverage processing
- Dyeing and purification
- Filling system
- Mechanical equipment and automation machinery
- Petroleum and chemical industry



Pneumatically operated on/off valve, normally closed by spring force, flow direction below the seat



Flow direction below seat
(Waterhammer-free)

Specifications

Port size (DN)	Orifice size (in)	Actuator size (mm)	Kv	Pilot Pressure (bar) SA		Operating Pressure Differential			Max. Fluid Temp. °C
	G *		m³/h	Min.	Max.	Max.		SA ^②	
DN08	1/4"	32	1.8	4.0	10	10	10	-	180°C
		32	2.8	4.0	10	10	10	-	
DN10	3/8"	40	3.8	4.2	10	10	16	-	
		50	4.3	4.0	10	10	16	-	
DN15	1/2"	32	4.1	4.0	10	10	10	-	
		40	3.9	4.2	10	10	15	16	
		50	4.2	4.0	10	10	16	-	
DN20	3/4"	63	4.7	2.5	10	10	16	25	
		32	6.5	4.0	10	6.0	6.0	-	
		40	7.2	4.2	10	6.5	7.0	16	
DN25	1"	50	8.5	4.0	10	10	11	16	
		63	9.8	4.0	10	10	16	25	
		63	9.8	2.5	10	10	12	16	
		50	10.8	4.0	10	6.0	6.0	16	
DN32	1 1/4"	63	18.0	4.0	10	10	10	16	
		90	19.2	4.0	8.0	16	16	25	
		63	18.0	2.5	6.0	6.0	6.0	16	
		90	19.2	2.5	8.0	10	12	25	
DN40	1 1/2"	63	25	4.0	10	6.0	6.0	16	
		90	28.4	4.0	8.0	10	12	16	
		110	29	4.0	8.0	10	16	-	
		63	25	2.5	10	3.0	3.0	16	
		90	28.4	2.5	8.0	7.0	7.0	16	
DN50	2"	110	29	2.5	8.0	10	16	-	
		63	35	4.0	10	4.0	4.0	16	
		90	41.7	4.0	8.0	8.0	8.0	16	
		110	42	4.0	8.0	10	16	-	
		90	41.7	2.5	8.0	4.0	4.0	-	
DN65	2 1/2"	110	42	2.5	8.0	10	10	-	
		63	47.8	4.0	10	2.0	2.0	13	
		90	54.5	4.0	8.0	6.0	6.0	15	
		110	56	4.0	8.0	10	10	16	
		90	54.5	2.5	8.0	2.5	2.5	15	
DN80	3"	110	56	2.5	8.0	5.0	5.0	15	
		90	84	4.0	8.0	2.0	2.0	15	
DN80	3"	110	89	4.0	8.0	6.0	8.0	12.5	
DN80	3"	110	141	4.0	8.0	2.0	-		

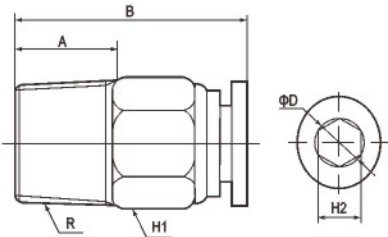
Note: ① water, oil, liquids, aggressive liquid;
② steam (≤180°C)

NOTICE:

The calibration nominal pressure of the corner seat valve must be higher than the pressure in the pipeline, otherwise the service life will be shortened or other unexpected situations will occur.



PC Straight Male Thread

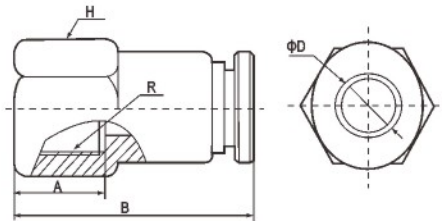


Model

PC4-M5	PC8-04
PC4-01	PC10-01
PC4-02	PC10-02
PC6-M5	PC10-03
PC6-01	PC10-04
PC6-02	PC12-01
PC6-03	PC12-02
PC6-04	PC12-03
PC8-M5	PC12-04
PC8-01	PC16-03
PC8-02	PC16-04
PC8-03	

Metric	φ D	R	A	B	H1	H2
PC4-03	4	PT3/8	8	17.6	17	4
PC4-M5	4	M5	3.5	21.8	10	3
PC4-01	4	PT1/8	65	20.5	10	3
PC4-02	4	PT1/4	8	19.5	14	4
PC6-M5	6	M5	3.5	22.8	12	4
PC6-01	6	PT1/8	6.5	22.2	12	4
PC6-02	6	PT1/4	8	22.2	14	4
PC6-03	6	PT3/8	10	21.5	17	4
PC6-04	6	PT1/2	10	23	21	4
PC8-01	8	PT1/8	7	26.8	14	6
PC8-02	8	PT1/4	9	25.2	14	6
PC8-03	8	PT3/8	10	22.2	17	6
PC8-04	8	PT1/2	11	23.7	21	4
PC10-01	10	PT1/8	7	30.7	17	6
PC10-02	10	PT1/4	10	29	17	8
PC10-03	10	PT3/8	10	29.5	17	8
PC10-04	10	PT1/2	11	25.2	21	4
PC12-01	12	PT1/8	7	31.7	19	6
PC12-02	12	PT1/4	8	33.2	19	8
PC12-03	12	PT3/8	10	28.5	19	8
PC12-04	12	PT1/2	11	29	21	8
PC14-02	14	PT1/4	9	29.3	21	6
PC14-03	14	PT3/8	10	29.3	21	8
PC14-04	14	PT1/2	11	27.3	21	12
PC16-03	16	PT3/8	10	40.5	24	10
PC16-04	16	PT1/2	12	37	24	12
PC16-06	16	PT3/4	13	38	27	12

PCF Straight Female Thread

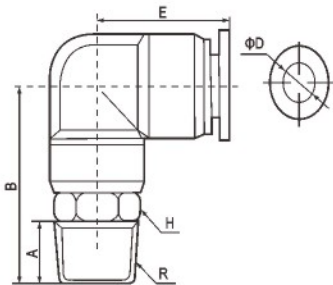


Model

PCF4-M5	PCF8-03
PCF4-01	PCF8-04
PCF4-02	PCF10-01
PCF6-M5	PCF10-02
PCF6-01	PCF10-03
PCF6-02	PCF10-04
PCF6-03	PCF12-02
PCF6-04	PCF12-03
PCF8-01	PCF12-04
PCF8-02	

Metric	φ D	R	A	B	H
PCF4-M5	4	M5	5	21	10
PCF4-01	4	PT1/8	8	24.5	12
PCF4-02	4	PT1/4	9	25.5	15
PCF6-M5	6	M5	5	20.7	12
PCF6-01	6	PT1/8	8	24.7	12
PCF6-02	6	PT1/4	9	25.5	15
PCF6-03	6	PT3/8	11	27.5	19
PCF6-04	6	PT1/2	12.5	29	24
PCF8-01	8	PT1/8	8	26	14
PCF8-02	8	PT1/4	9	27	15
PCF8-03	8	PT3/8	11	29.5	19
PCF8-04	8	PT1/2	12.5	30.5	24
PCF10-01	10	PT1/8	8	27	17
PCF10-02	10	PT1/4	10	30.5	17
PCF10-03	10	PT3/8	11	31.5	19
PCF10-04	10	PT1/2	12.5	32.5	24
PCF12-01	12	PT1/8	10	30.7	19
PCF12-02	12	PT1/4	10	32.2	19
PCF12-03	12	PT3/8	11	33.7	19
PCF12-04	12	PT1/2	12.5	34.7	24

PL Elbow Male Thread

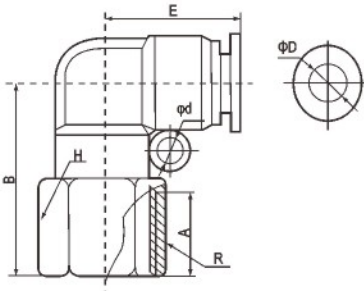


Model

PL4-M5	PL8-03
PL4-01	PL8-04
PL4-02	PL10-01
PL6-M5	PL10-02
PL6-01	PL10-03
PL6-02	PL10-04
PL6-03	PL12-01
PL6-04	PL12-02
PL8-01	PL12-03
PL8-02	PL12-04

Metric	φ D	R	A	B	H	E
PL4-M5	4	M5	3.5	25	10	19.7
PL4-01	4	PT1/8	7	20.5	10	19.7
PL4-02	4	PT1/4	9	23	14	19.7
PL6-M5	6	M5	3.5	20	10	20.8
PL6-01	6	PT1/8	7	22	10	20.8
PL6-02	6	PT1/4	9	24.5	14	20.8
PL6-03	6	PT3/8	10	25.5	17	20.8
PL6-04	6	PT1/2	11	27.5	21	20.8
PL8-01	8	PT1/8	7	22	14	23.5
PL8-02	8	PT1/4	9	24	14	23.5
PL8-03	8	PT3/8	10	26.5	17	23.5
PL8-04	8	PT1/2	11	27.5	21	23.5
PL10-01	10	PT1/8	7	28	17	25.2
PL10-02	10	PT1/4	9	30	17	25.2
PL10-03	10	PT3/8	10	31	17	25.2
PL10-04	10	PT1/2	11	32	21	25.2
PL12-01	12	PT1/8	7	31	19	30.3
PL12-02	12	PT1/4	9	33.5	19	30.3
PL12-03	12	PT3/8	10	34.5	19	30.3
PL12-04	12	PT1/2	11	35	21	30.3
PL14-02	14	PT1/4	10		21	
PL14-03	14	PT3/8	10	42.5	21	30.3
PL14-04	14	PT1/2	11	45	21	30.3
PL16-03	16	PT3/8	11	50	24	34
PL16-04	16	PT1/2	12	50.5	24	34
PL16-06	16	PT3/4	13		27	

PLF Elbow Female Thread



Model

PLF4-M5	PLF8-03
PLF4-01	PLF8-04
PLF4-02	PLF10-01
PLF6-M5	PLF10-02
PLF6-01	PLF10-03
PLF6-02	PLF10-04
PLF6-03	PLF12-02
PLF6-04	PLF12-03
PLF8-01	PLF12-04
PLF8-02	

Metric	φ D	R	A	B	H
PLF4-M5	4	M5			19.7
PLF4-01	4	PT1/8	8	19.5	19.7
PLF4-02	4	PT1/4	10	19.5	19.7
PLF6-M5	6	M5			20.8
PLF6-01	6	PT1/8	8	21	20.6
PLF6-02	6	PT1/4	10	23	20.6
PLF6-03	6	PT3/8	11	24	20.6
PLF6-04	6	PT1/2	13	25	20.6
PLF8-01	8	PT1/8	8	21	23.5
PLF8-02	8	PT1/4	10	23	23.5
PLF8-03	8	PT3/8	11	24	23.5
PLF8-04	8	PT1/2	11	24.5	23.5
PLF10-01	10	PT1/8	8	27	25.2
PLF10-02	10	PT1/4	10	28	25.2
PLF10-03	10	PT3/8	11	29	25.2
PLF10-04	10	PT1/2	11.5	30	25.2
PLF12-02	12	PT1/4	11	28	30.3
PLF12-03	12	PT3/8	11	29	30.3
PLF12-04	12	PT1/2	13	30	30.3

PLL Elbow Longer Male Thread



Model

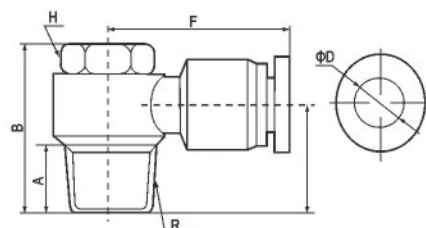
PLL4-M5	PLL6-04	PLL10-03
PLL4-01	PLL8-01	PLL10-04
PLL4-02	PLL8-02	PLL12-02
PLL6-M5	PLL8-03	PLL12-03
PLL6-01	PLL8-04	PLL12-04
PLL6-02	PLL10-01	
PLL6-03	PLL10-02	

PH External Hex Joint



Model

PH4-M5	PH8-03
PH4-01	PH8-04
PH4-02	PH10-01
PH6-M5	PH10-02
PH6-01	PH10-03
PH6-02	PH10-04
PH6-03	PH12-01
PH6-04	PH12-02
PH8-01	PH12-03
PH8-02	PH12-04



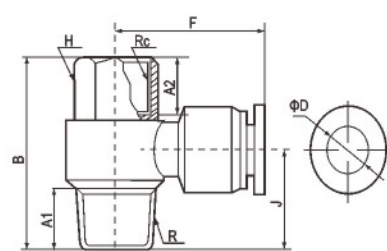
Metric	φ D	R	A	B	H	F	J
PH4-M5	4	M5	4	19	8	23.2	12.5
PH4-01	4	PT1/8	7.5	25	12	23.2	14.5
PH4-02	4	PT1/4	11	27	15	24.7	17.8
PH6-M5	6	M5	4	19	8	22.8	12.5
PH6-01	6	PT1/8	9.5	25	12	22.8	14.5
PH6-02	6	PT1/4	11	27	15	24.8	17.5
PH6-03	6	PT3/8	11	33	19	28.3	20
PH6-04	6	PT1/2	12	35	22	30	20
PH8-01	8	PT1/8	7.5	25	12	36	13.8
PH8-02	8	PT1/4	11	27	15	38.5	16.5
PH8-03	8	PT3/8	11	33	19	28.8	19.6
PH8-04	8	PT1/2	12	35	22	30.5	20.9
PH10-01	10	PT1/8	7.5	25	12	28.7	13.8
PH10-02	10	PT1/4	11	27	15	30.7	14.8
PH10-03	10	PT3/8	11	33	19	30.7	19
PH10-04	10	PT1/2	12	35	22	34	22.9
PH12-02	12	PT1/4	11	27	15	32.2	13.8
PH12-03	12	PT3/8	11	33	19	34.2	17.7
PH12-04	12	PT1/2	12	35	22	34.2	22

PHF Joints in Series



Model

PHF4-01	PHF8-04
PHF4-02	PHF10-01
PHF6-01	PHF10-02
PHF6-02	PHF10-03
PHF6-03	PHF10-04
PHF6-04	PHF12-02
PHF8-01	PHF12-03
PHF8-02	PHF12-04
PHF8-03	



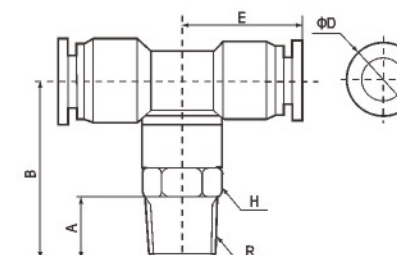
Metric	φ D	R	Rc	A1	A2	B	H	F	J
PHF4-M5	4	M5	M5	4	4	19	8	23.2	12.5
PHF4-01	4	PT1/8	R1/8	8	8	30	12	23.2	14.5
PHF4-02	4	PT1/4	R1/4	9	11	33	15	24.7	17.8
PHF6-M5	6	M5	M5	4	4	19	8	22.8	12.5
PHF6-01	6	PT1/8	R1/8	8	8	30	12	22.8	14.5
PHF6-02	6	PT1/4	R1/4	9	11	33	15	24.8	17.5
PHF6-03	6	PT3/8	R3/8	11	11	40	19	28.3	20
PHF6-04	6	PT1/2	R1/2	12	12	42.5	24	30	20
PHF8-01	8	PT1/8	R1/8	8	8	30	12	26.2	13.8
PHF8-02	8	PT1/4	R1/4	9	11	33	15	28.5	16.5
PHF8-03	8	PT3/8	R3/8	11	11	40	19	28.8	19.6
PHF8-04	8	PT1/2	R1/2	12	12	43.5	24	30.5	20.9
PHF10-01	10	PT1/8	R1/8	8	8	30	12	28.7	13.8
PHF10-02	10	PT1/4	R1/4	9	11	33	15	30.7	14.8
PHF10-03	10	PT3/8	R3/8	11	11	40	19	30.7	19
PHF10-04	10	PT1/2	R1/2	12	12	43.5	24	34	22.9
PHF12-02	12	PT1/4	R1/4	9	11	33	15	32.2	13.8
PHF12-03	12	PT3/8	R3/8	11	11	40	19	34.2	17.7
PHF12-04	12	PT1/2	R1/2	12	12	43.5	24	34.2	23

PB T-Shape Vertical Male Thread



Model

PB4-M5	PB8-03
PB4-01	PB8-04
PB4-02	PB10-01
PB6-M5	PB10-02
PB6-01	PB10-03
PB6-02	PB10-04
PB6-03	PB12-02
PB6-04	PB12-03
PB8-01	PB12-04
PB8-02	



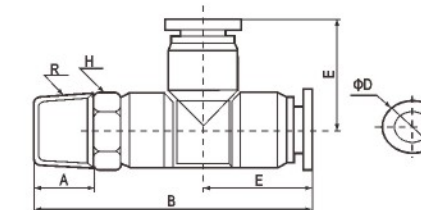
Metric	φ D	R	A	B	H	E
PB4-M5	4	M5	3.5		10	18.6
PB4-01	4	PT1/8	7		10	18.6
PB4-02	4	PT1/4	9		14	18.6
PB6-M5	6	M5	3.5		10	18.8
PB6-01	6	PT1/8	6.5		10	18.8
PB6-02	6	PT1/4	9	30	14	18.8
PB6-03	6	PT3/8	10	30.6	17	18.8
PB6-04	6	PT1/2	11	32.5	21	18.8
PB8-01	8	PT1/8	7	31.5	12	22.9
PB8-02	8	PT1/4	9	33	14	22.9
PB8-03	8	PT3/8	10	33.6	17	22.9
PB8-04	8	PT1/2	11	35	21	22.9
PB10-01	10	PT1/8	7	37	17	25.2
PB10-02	10	PT1/4	9	38	17	25.2
PB10-03	10	PT3/8	10	38	17	25.2
PB10-04	10	PT1/2	11	39	21	25.2
PB12-01	12	PT1/8	7	37.5	19	26.7
PB12-02	12	PT1/4	9	40	19	26.7
PB12-03	12	PT3/8	10	40	19	26.7
PB12-04	12	PT1/2	11	41	21	26.7
PB14-03	14	PT3/8	10	46.3	21	34.5
PB14-04	14	PT1/2	11	47.3	21	34.5

PD T-Shape side Male Thread



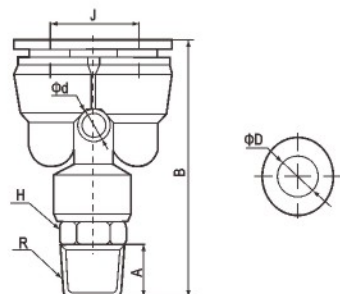
Model

PD4-M5	PD8-03
PD4-01	PD8-04
PD4-02	PD10-01
PD6-M5	PD10-02
PD6-01	PD10-03
PD6-02	PD10-04
PD6-03	PD12-02
PD6-04	PD12-04
PD8-01	
PD8-02	



Metric	φ D	R	A	B	H	E
PD4-M5	4	M5	3.5	35	10	18.7
PD4-01	4	PT1/8	7	35	10	18.7
PD4-02	4	PT1/4	9	37.5	14	18.7
PD6-M5	6	M5	3.5	38	10	20.3
PD6-01	6	PT1/8	7	38	10	20.3
PD6-02	6	PT1/4	9	40.5	14	20.3
PD6-03	6	PT3/8	10	39.5	17	20.3
PD6-04	6	PT1/2	11	43.5	21	20.3
PD8-01	8	PT1/8	7	40	12	22.8
PD8-02	8	PT1/4	9	42	14	22.8
PD8-03	8	PT3/8	10	44.5	17	22.8
PD8-04	8	PT1/2	11	45.5	21	22.8
PD10-01	10	PT1/8	7	49	17	26.2
PD10-02	10	PT1/4	9	51	17	26.2
PD10-03	10	PT3/8	10	52	17	26.2
PD10-04	10	PT1/2	11	53	21	26.2
PD12-01	12	PT1/8	7	51.5	19	28.2
PD12-02	12	PT1/4	9	53.5	19	28.2
PD12-03	12	PT3/8	10	54.5	19	28.2
PD12-04	12	PT1/2	11	55.5	21	28.2
PD14-03	14	PT3/8	10		21	35
PD14-04	14	PT1/2	11	85	21	35

PX Y-Shape Three-Way Thread

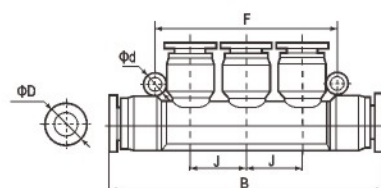


Model

PX4-M5	PX8-03
PX4-01	PX8-04
PX4-02	PX10-01
PX6-M5	PX10-02
PX6-01	PX10-03
PX6-02	PX10-04
PX6-03	PX12-02
PX6-04	PX12-03
PX8-01	PX12-04
PX8-02	

Metric	Φ D	R	A	B	H	J	E
PX4-M5	4	M5	3.5	37.7	10	10.8	2.5
PX4-01	4	PT1/8	7	37.7	10	10.8	2.5
PX4-02	4	PT1/4	9	40.2	14	10.8	2.5
PX6-M5	6	M5	3.5	41.5	10	13	3.5
PX6-01	6	PT1/8	6.5	40.3	10	13	3.5
PX6-02	6	PT1/4	9	42.8	14	13	3.5
PX6-03	6	PT3/8	10	44.8	17	13	3.5
PX6-04	6	PT1/2	11	45.8	21	13	3.5
PX8-01	8	PT1/8	7	45.5	12	15.2	4
PX8-02	8	PT1/4	9	47.5	14	15.2	4
PX8-03	8	PT3/8	10	50	17	15.2	4
PX8-04	8	PT1/2	11	51	21	15.2	4
PX10-01	10	PT1/8	7	49.7	17	19	4.2
PX10-02	10	PT1/4	9	51.7	17	19	4.2
PX10-03	10	PT3/8	10	52.7	17	19	4.2
PX10-04	10	PT1/2	11	53.7	21	19	4.2
PX12-01	12	PT1/8	8	54.2	19	20.5	4.2
PX12-02	12	PT1/4	10	56.2	19	20.5	4.2
PX12-03	12	PT3/8	10	57.2	19	20.5	4.2
PX12-04	12	PT1/2	11	58.2	21	20.5	4.2

PK Five-way

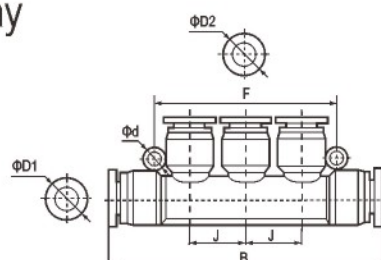


Model

PK4
PK6
PK8
PK10
PK12

Metric	Φ D	B	F	J	Φ d
PK-4	4	62.4	36.8	12	2.5
PK-6	6	68.6	54.8	17.5	4
PK-8	8	80.5	54.8	17.5	4
PK-10	10	91.4	62.5	20.4	4
PK-12	12	112	71	23	4

PKG Reduced Five-way

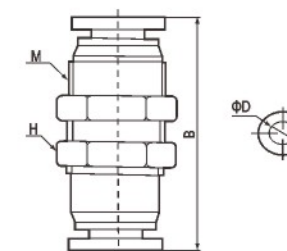


Model

PKG6-4
PKG8-4
PKG8-6
PKG10-6
PKG10-8
PKG12-8
PKG12-10

Metric	Φ D1	Φ D2	B	F	J	Φ d
PKG6-4	6	4	68.6	41.4	13.5	4
PKG8-6	8	6	80.5	52.5	17.7	4
PKG10-8	10	8	91.4	58	19.5	4
PKG12-10	12	10	101.4	67.7	22	4
PKG8-4	8	4	81	52.5	18	4.5
PKG10-6	10	6	91.4	58	19.5	4
PKG12-8	12	8	101.4	67.7	22	4

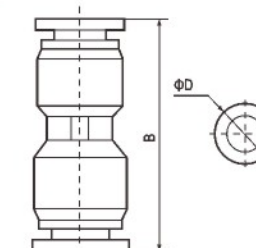
PM Bulkhead Union



Model

Model	Metric	Φ D	M	B	H
PM4	PM-4	4	M12 x 1.0	34.5	15
PM6	PM-6	6	M14 x 1.0	37	17
PM8	PM-8	8	M16 x 1.0	37	19
PM10	PM-10	10	M20 x 1.0	45	24
PM12	PM-12	12	M22 x 1.0	46.4	27

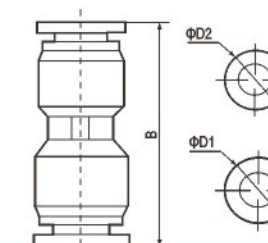
PU Straight Union



Model

Model	Metric	Φ D	H
PU4	PU-4	4	33.4
PU6	PU-6	6	35.1
PU8	PU-8	8	39
PU10	PU-10	10	44.4
PU12	PU-12	12	46.4
PU14	PU-14	14	51
PU16	PU-16	16	57.8

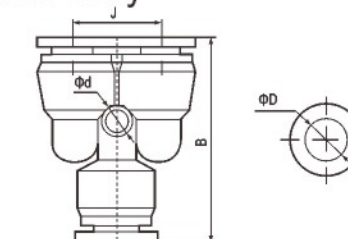
PUG Reduced Straight Union



Model

Model	Metric	Φ D1	Φ D2	B
PUG6-4	PUG6-4	6	4	35
PUG8-4	PUG8-6	8	6	36.3
PUG8-6	PUG10-8	10	8	40.2
PUG10-6	PUG12-10	12	10	44
PUG10-8	PUG16-12	16	12	47.5
PUG12-8	PUG8-4	8	4	47.5
PUG12-10	PUG10-6	10	6	67
PUG16-12	PUG12-8	12	8	67

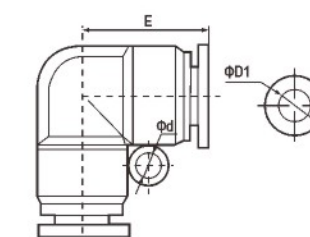
PY Y-Shape Three-Way



Model

Model	Metric	Φ D	B	J	Φ d
PY4	PY-4	4	28	11.6	2.5
PY6	PY-6	6	30	13.3	3.5
PY8	PY-8	8	33	15.5	4
PY10	PY-10	10	48	38.5	4.2
PY12	PY-12	12	54	20.5	4.2

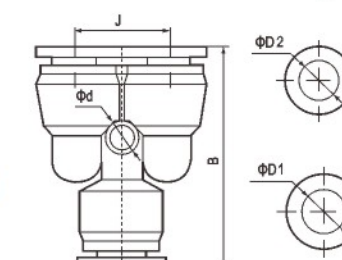
PV Elbow Two-Way



Model

Model	Metric	Φ D1	E	Φ d
PV4	PV-4	4	18.7	/
PV6	PV-6	6	20.5	3.5
PV8	PV-8	8	23	4.5
PV10	PV-10	10	27	4.5
PV12	PV-12	12	28.5	5
PV14	PV-14	14	32	
PV16	PV-16	16	33.5	4

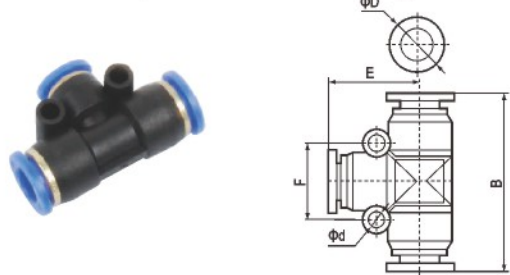
PYG Y-Shape Reduced Three-way



Model

Model	Metric	Φ D1	Φ D2	B	J	Φ d
PYG6-4	PYG6-4	6	4	38.5	13.5	3.5
PYG8-4	PYG8-6	8	6	42	16	4
PYG8-6	PYG10-8	10	8	47.2	18.4	4.5
PYG10-6	PYG12-10	12	10	52.4	20.5	4.5
PYG10-8	PYG8-4	8	4	42	16	4
PYG12-8	PYG10-6	10	6	47.2	18.4	4
PYG12-10	PYG12-8	12	8	52.2	20.2	4

PE T-Shape Three-Way



Model	Metric	φ D	B	E	F	φ d
PE4	PE-4	4	37.4	18.7	13.5	/
PE6	PE-6	6	40.6	20.5	16	3.5
PE8	PE-8	8	46	23	20	4.5
PE10	PE-10	10	55.4	27.7	24	4.5
PE12	PE-12	12	57.4	28.7	27	5
PE14	PE-14	14	64	32	28	4
PE16	PE-16	16	69	34.5	33	4

SL Speed controller



Model			
SL4-M5	SL8-01	SL12-01	
SL4-01	SL8-02	SL12-02	
SL4-02	SL8-03	SL12-03	
SL6-M5	SL8-04	SL12-04	
SL6-01	SL10-01	SL16-04	
SL6-02	SL10-02		
SL6-03	SL10-03		
SL6-04	SL10-04		

PKB Side Male Thread Five-Way



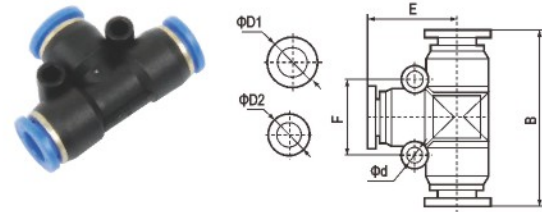
Model		
PKB4-01	PKB8-04	
PKB4-02	PKB10-01	
PKB6-01	PKB10-02	
PKB6-02	PKB10-03	
PKB6-03	PKB10-04	
PKB8-01	PKB12-02	
PKB8-02	PKB12-03	
PKB8-03	PKB12-04	

PZA Union Cross



Model
PZA4
PZA6
PZA8
PZA10
PZA12

PEG T-Shape Reduced Three-Way



Model	Metric	φ D1	φ D2	B	E	F	φ d
PEG6-4	PEG6-4	6	4	37.6	19.7	15	3.5
PEG8-4	PEG8-6	8	6	43	20.3	18	4.5
PEG8-6	PEG10-8	10	8	50.4	24.5	20	4.5
PEG10-6	PEG12-10	12	10	57.4	27.7	24.5	5
PEG10-8	PEG16-12	16	12	69	34	32.2	4
PEG12-8	PEG8-4	8	4	43	18	18	4.5
PEG12-10	PEG10-6	10	6	50.4	23.8	20	4
PEG16-12	PEG12-8	12	8	57.4	27.4	24.5	5

LSA Pipe Speed controller



Model
LSA-4
LSA-6
LSA-8
LSA-10
LSA-12

PKD Side Female Thread



Model		
PKD4-01	PKD8-04	
PKD4-02	PKD10-01	
PKD6-01	PKD10-02	
PKD6-02	PKD10-03	
PKD6-03	PKD10-04	
PKD8-01	PKD12-02	
PKD8-02	PKD12-03	
PKD8-03	PKD12-04	

HVFF series Hand Switch



Model
HVFF-4
HVFF-6
HVFF-8
HVFF-10
HVFF-12

BUC series Hand Valves



Model
BUC-6
BUC-8

BC-G series Hand Valve



Model
BC6-01G
BC6-02G
BC6-03G
BC6-04G
BC8-01G
BC8-02G
BC8-03G
BC8-04G

BUL series Hand Valve



Model
BUL-06
BUL-08

BC series Hand Valves



Model
BC6-01
BC6-02
BC6-03
BC6-04
BC8-01
BC8-02
BC8-03
BC8-04

BL-G series Hand Valve



Model
BL6-01G
BL6-02G
BL6-03G
BL6-04G
BL8-01G
BL8-02G
BL8-03G
BL8-04G

KCM Push in Check valve



Model
KCM-04
KCM-06
KCM-08
KCM-10
KCM-12

AN series Plastic Silencer



Model
AN-01
AN-02
AN-03
AN-04

AL series Plastic Silencer



Model
AL-01
AL-02
AL-03
AL-04

ST/SV series Brass Silencer



Model
PST-01
PST-02
PST-03
PST-04
PSV-01
PSV-02
PSV-03
PSV-04

PC Straight Male Thread



Model	PC4-M5B	PC8-04B
	PC4-01B	PC10-01B
	PC4-02B	PC10-02B
	PC6-M5B	PC10-03B
	PC6-01B	PC10-04B
	PC6-02B	PC12-01B
	PC6-03B	PC12-02B
	PC6-04B	PC12-03B
	PC8-01B	PC12-04B
	PC8-02B	PC16-03B
	PC8-03B	PC16-04B

PCF Straight Female Thread



Model	PCF4-M5B	PCF8-03B
	PCF4-01B	PCF8-04B
	PCF4-02B	PCF10-01B
	PCF6-M5B	PCF10-02B
	PCF6-01B	PCF10-03B
	PCF6-02B	PCF10-04B
	PCF6-03B	PCF12-01B
	PCF6-04B	PCF12-02B
	PCF8-01B	PCF12-03B
	PCF8-02B	PCF12-04B

PL Elbow Male Thread



Model	PL4-M5B	PL8-03B
	PL4-01B	PL8-04B
	PL4-02B	PL10-01B
	PL6-M5B	PL10-02B
	PL6-01B	PL10-03B
	PL6-02B	PL10-04B
	PL6-03B	PL12-01B
	PL6-04B	PL12-02B
	PL8-01B	PL12-03B
	PL8-02B	PL12-04B

PLF Elbow Female Thread



Model	PLF4-M5B	PLF8-03B
	PLF4-01B	PLF8-04B
	PLF4-02B	PLF10-01B
	PLF6-M5B	PLF10-02B
	PLF6-01B	PLF10-03B
	PLF6-02B	PLF10-04B
	PLF6-03B	PLF12-01B
	PLF6-04B	PLF12-02B
	PLF8-01B	PLF12-03B
	PLF8-02B	PLF12-04B

PY Y-Shape three-way



Model	PY4B
	PY6B
	PY8B
	PY10B
	PY12B

PYG Y-Shape reduced three-way



Model	PYG6-4B
	PYG8-4B
	PYG8-6B
	PYG10-6B
	PYG10-8B
	PYG12-8B
	PYG12-10B

PZA Cross four-way



Model	PZA4B
	PZA6B
	PZA8B
	PZA10B
	PZA12B

PM Straight with partition



Model	PM4B
	PM6B
	PM8B
	PM10B
	PM12B

PB T-Shape vertical Male Thread



Model	PB4-M5B	PB8-03B
	PB4-01B	PB8-04B
	PB4-02B	PB10-01B
	PB6-M5B	PB10-02B
	PB6-01B	PB10-03B
	PB6-02B	PB10-04B
	PB6-03B	PB12-01B
	PB6-04B	PB12-02B
	PB8-01B	PB12-03B
	PB8-02B	PB12-04B

SL Speed controller



Model	SL4-M5B	SL8-04B
	SL4-01B	SL10-01B
	SL4-02B	SL10-02B
	SL6-M5B	SL10-03B
	SL6-01B	SL10-04B
	SL6-02B	SL12-01B
	SL6-03B	SL12-02B
	SL6-04B	SL12-03B
	SL8-01B	SL12-04B
	SL8-02B	SL16-03B
	SL8-03B	SL16-04B

PE T-Shape three-way



Model	PE4B
	PE6B
	PE8B
	PE10B
	PE12B
	PE14B
	PE16B

PEG T - Shape reduced three-way



Model	PEG6-4B
	PEG8-4B
	PEG8-6B
	PEG10-6B
	PEG10-8B
	PEG12-8B
	PEG12-10B
	PEG16-12B

PU Straight union



Model	PU4B
	PU6B
	PU8B
	PU10B
	PU12B
	PU14B
	PU16B

PV Elbow two-way



Model	PV4B
	PV6B
	PV8B
	PV10B
	PV12B
	PV14B
	PV16B

LSA Pipe speed controller



Model	LSA4B
	LSA6B
	LSA8B
	LSA10B
	LSA12B

PK Five-way



Model	PK4B
	PK6B
	PK8B
	PK10B
	PK12B

Brass Nickel Plating-One Touch Fittings

PC Straight Male Thread



Model

PC4-M5DN	PC8-041DN
PC4-01DN	PC10-01DN
PC4-02DN	PC10-02DN
PC6-M5DN	PC10-03DN
PC6-01DN	PC10-04DN
PC6-02DN	PC12-02DN
PC6-03DN	PC12-03DN
PC6-04DN	PC12-04DN
PC8-01DN	PC16-03DN
PC8-02DN	PC16-04DN
PC8-03DN	

PL Elbow Male Thread



Model

PL4-M5DN	PL8-041DN
PL4-01DN	PL10-01DN
PL4-02DN	PL10-02DN
PL6-M5DN	PL10-03DN
PL6-01DN	PL10-04DN
PL6-02DN	PL12-02DN
PL6-03DN	PL12-03DN
PL6-04DN	PL12-04DN
PL8-01DN	PL16-03DN
PL8-02DN	PL16-04DN
PL8-03DN	

PB T-Shape vertical Male Thread



Model

PB4-M5DN	PB8-041DN
PB4-01DN	PB10-01DN
PB4-02DN	PB10-02DN
PB6-M5DN	PB10-03DN
PB6-01DN	PB10-04DN
PB6-02DN	PB12-02DN
PB6-03DN	PB12-03DN
PB6-04DN	PB12-04DN
PB8-01DN	PB16-03DN
PB8-02DN	PB16-04DN
PB8-03DN	

PX Y-Shape Three-Way Thread



Model

PX4-M5DN	PX8-041DN
PX4-01DN	PX10-01DN
PX4-02DN	PX10-02DN
PX6-M5DN	PX10-03DN
PX6-01DN	PX10-04DN
PX6-02DN	PX12-02DN
PX6-03DN	PX12-03DN
PX6-04DN	PX12-04DN
PX8-01DN	PX16-03DN
PX8-02DN	PX16-04DN
PX8-03DN	

Metal One Touch Fittings

KC - PC Straight Male Thread



Model

KC-PC4-M5	KC-PC10-01
KC-PC4-01	KC-PC10-02
KC-PC4-02	KC-PC10-03
KC-PC6-M5	KC-PC10-04
KC-PC6-01	KC-PC12-01
KC-PC6-02	KC-PC12-02
KC-PC6-03	KC-PC12-03
KC-PC6-04	KC-PC12-04
KC-PC8-01	KC-PC16-03
KC-PC8-02	KC-PC16-04
KC-PC8-03	
KC-PC8-04	

KC - PL Elbow Male Thread



Model

KC-PL4-M5	KC-PL10-01
KC-PL4-01	KC-PL10-02
KC-PL4-02	KC-PL10-03
KC-PL6-M5	KC-PL10-04
KC-PL6-01	KC-PL12-01
KC-PL6-02	KC-PL12-02
KC-PL6-03	KC-PL12-03
KC-PL6-04	KC-PL12-04
KC-PL8-01	KC-PL16-03
KC-PL8-02	KC-PL16-04
KC-PL8-03	
KC-PL8-04	

KC - PB T-Shape vertical Male Thread



Model

KC-PB4-M5	KC-PB10-01
KC-PB4-01	KC-PB10-02
KC-PB4-02	KC-PB10-03
KC-PB6-M5	KC-PB10-04
KC-PB6-01	KC-PB12-01
KC-PB6-02	KC-PB12-02
KC-PB6-03	KC-PB12-03
KC-PB6-04	KC-PB12-04
KC-PB8-01	KC-PB16-03
KC-PB8-02	KC-PB16-04
KC-PB8-03	
KC-PB8-04	

KC - PLF Elbow Female Thread



Model

KC-PLF4-M5	KC-PLF10-01
KC-PLF4-01	KC-PLF10-02
KC-PLF4-02	KC-PLF10-03
KC-PLF6-M5	KC-PLF10-04
KC-PLF6-01	KC-PLF12-01
KC-PLF6-02	KC-PLF12-02
KC-PLF6-03	KC-PLF12-03
KC-PLF6-04	KC-PLF12-04
KC-PLF8-01	KC-PLF16-03
KC-PLF8-02	KC-PLF16-04
KC-PLF8-03	
KC-PLF8-04	

Quick Pipe Connectors

KN - PC Straight Male Thread



Model

KN-PC4-M5	KN-PC10-01
KN-PC4-01	KN-PC10-02
KN-PC4-02	KN-PC10-03
KN-PC6-M5	KN-PC10-04
KN-PC6-01	KN-PC12-01
KN-PC6-02	KN-PC12-02
KN-PC6-03	KN-PC12-03
KN-PC6-04	KN-PC12-04
KN-PC8-01	KN-PC16-03
KN-PC8-02	KN-PC16-04
KN-PC8-03	
KN-PC8-04	

KN - PL Elbow Male Thread



Model

KN-PL4-M5	KN-PL10-01
KN-PL4-01	KN-PL10-02
KN-PL4-02	KN-PL10-03
KN-PL6-M5	KN-PL10-04
KN-PL6-01	KN-PL12-01
KN-PL6-02	KN-PL12-02
KN-PL6-03	KN-PL12-03
KN-PL6-04	KN-PL12-04
KN-PL8-01	KN-PL16-03
KN-PL8-02	KN-PL16-04
KN-PL8-03	
KN-PL8-04	

KN - PB T-Shape Vertical Male Thread



Model

KN-PB4-M5	KN-PB10-01
KN-PB4-01	KN-PB10-02
KN-PB4-02	KN-PB10-03
KN-PB6-M5	KN-PB10-04
KN-PB6-01	KN-PB12-01
KN-PB6-02	KN-PB12-02
KN-PB6-03	KN-PB12-03
KN-PB6-04	KN-PB12-04
KN-PB8-01	KN-PB16-03
KN-PB8-02	KN-PB16-04
KN-PB8-03	
KN-PB8-04	

KN - PD T-Shape Side Male Thread



Model

KN-PD4-M5	KN-PD10-01
KN-PD4-01	KN-PD10-02
KN-PD4-02	KN-PD10-03
KN-PD6-M5	KN-PD10-04
KN-PD6-01	KN-PD12-01
KN-PD6-02	KN-PD12-02
KN-PD6-03	KN-PD12-03
KN-PD6-04	KN-PD12-04
KN-PD8-01	KN-PD16-03
KN-PD8-02	KN-PD16-04
KN-PD8-03	
KN-PD8-04	

KN - PU Straight Union



Model

KN-PU4
KN-PU6
KN-PU8
KN-PU10
KN-PU12
KN-PU14
KN-PU16

KN - PV Elbow Union



Model

KN-PV4
KN-PV6
KN-PV8
KN-PV10
KN-PV12
KN-PV14
KN-PV16

KN - PM Straight with Partition



Model

KN-PM4
KN-PM6
KN-PM8
KN-PM10
KN-PM12
KN-PM14
KN-PM16

KN - SL Speed Controller



Model

KN-SL4-M5	KN-SL10-01
KN-SL4-01	KN-SL10-02
KN-SL4-02	KN-SL10-03
KN-SL6-M5	KN-SL10-04
KN-SL6-01	KN-SL12-01
KN-SL6-02	KN-SL12-02
KN-SL6-03	KN-SL12-03
KN-SL6-04	KN-SL12-04
KN-SL8-01	KN-SL16-03
KN-SL8-02	KN-SL16-04
KN-SL8-03	
KN-SL8-04	

Micro Quick Fittings



SPL-C

external diameter of pipe * thread
 3-M3 4-M5 5-M5 6-M5
 3-M5 4-01 5-01 6-01
 3-01 4-02 5-02 6-02



SPC-C

external diameter of pipe * thread
 3-M3 4-M5 5-M5 6-M5
 3-M5 4-01 5-01 6-01
 3-01 4-02 5-02 6-02

Spp Series Plug



Model

SPP-4
 SPP-6
 SPP-8
 SPP-10
 SPP-12

Rotation Fittings



Model (low Speed)	Rotation Speed	Model (high Speed)	Rotation Speed	Model (low Speed)	Rotation Speed	Model (high Speed)	Rotation Speed
NRC 04-M5	500	NHRC 04-M5	1500	NRL 04-M5	500	NHRL 04-M5	1500
NRC 04-M6		NHRC 04-M6		NRL 04-M6		NHRL 04-M6	
NRC 04-01		NHRC 04-01		NRL 04-01		NHRL 04-01	
NRC 06-01		NHRC 06-01		NRL 06-01		NHRL 06-01	
NRC 06-02	1200	NHRC 06-02	1200	NRL 06-02	400	NHRL 06-02	1200
NRC 06-03		NHRC 06-03		NRL 06-03		NHRL 06-03	
NRC 06-04		NHRC 06-04		NRL 06-04		NHRL 06-04	
NRC 08-01		NHRC 08-01		NRL 08-01		NHRL 08-01	
NRC 08-02	400	NHRC 08-02	1200	NRL 08-02	300	NHRL 08-02	1000
NRC 08-03		NHRC 08-03		NRL 08-03		NHRL 08-03	
NRC 08-04		NHRC 08-04		NRL 08-04		NHRL 08-04	
NRC 10-03		NHRC 10-03		NRL 10-03		NHRL 10-03	
NRC 10-04	300	NHRC 10-04	1000	NRL 10-04	200	NHRL 10-04	
NRC 12-03		NHRC 12-03		NRL 12-03		NHRL 12-03	
NRC 12-04		NHRC 12-04		NRL 12-04		NHRL 12-04	
NRC 12-04		NHRC 12-04		NRL 12-04		NHRL 12-04	

Oil Pipe



Model	OEL-01	OEL-02	OEL-03S小	OEL-03S大	OEL-04
Nozzle Type					
Thread Port Size	1/8"	1/4"	3/8"	3/8"	1/2"

Order Code

OEL	-	02	F
Series		Thread Port Size	Nozzle Type
		01:1/8"	O: Round
		02:1/4"	F: Flat
		03:3/8"	
		04:1/2"	

Applicable Range

It Suitable For Lathe, Hydraulic Machinery, Cnc Machine, Water Cooling System. The Product Is Assembled By Manual. Can Be Regulated The Length ,nozzle Diameter, Position Arbitrarily, It Having The Features Of Beautiful Appearance, Big Capacity, Non Conducting, Anti-corrosion, Heat-resistant. Etc.



Pu Tube

Order Code

PU	08 06	B
Series	standard specification	tube color

tube color

C	B	BU	R	Y	G	W	O
color	black	blue	red	yellow	green	white/transparent	orange

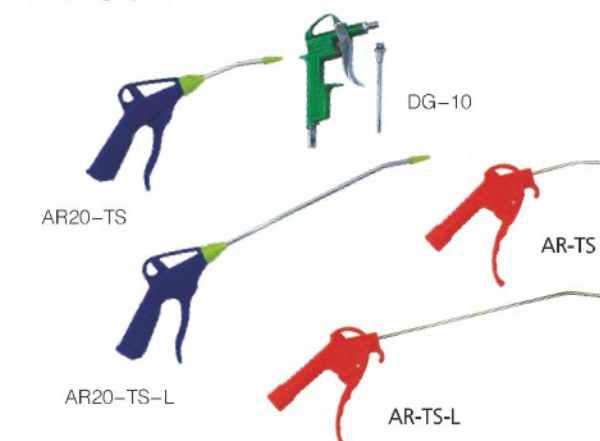
Pu tube specification sheet

Model	PU0320	PU0425	PU0530	PU0640	PU0850	PU0860	PU1065	PU1080	PU1280	PU1290	PU1410	PU1611	PU1612
outer diameter mm	φ 3.0	φ 4.0	φ 5.0	φ 6.0	φ 8.0	φ 8.0	φ 10.0	φ 10.0	φ 12.0	φ 12.0	φ 14.0	φ 16.0	φ 16.0
inner diameter mm	φ 2.0	φ 2.5	φ 3.0	φ 4.0	φ 5.0	φ 6.0	φ 6.5	φ 8.0	φ 8.0	φ 9.0	φ 10.0	φ 11.0	φ 12.0

Spiral Tube

outer diameter □ inner diameter	length
6 x 4	3、6、9、12、15
8 x 5	3、6、9、12、15
10 x 6.5	3、6、9、12、15
12 x 8	3、6、9、12、15

Air Gun



Each type of air gun provides users with safe, effective and easy to operate products for different needs of industry. Users can order different types of products according to their needs.

working fluid	compressed air
Max working pressure	10bar max
Working temperature	compressed air(dired)-20℃~+80℃
material	Wrench And Body : Engineering Plastic

C Type Quick Coupler

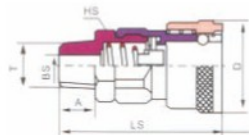
Order Code

S	M	-	20
S:Main body	M:male thread		Port size
P:Sub-body	F:female thread		10:1/8"
	H:pipe plug-in		20:1/4"
	P:pipe locking		30:3/8"
			40:1/2"

Technical Specification

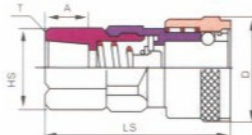
Working fluid	Air
Max withstand pressure	1.32MPa(1.35kgf/cm ²)
Max operating pressure	0~0.9MPa(0~9.2kgf/cm ²)
Ambient and fluid temperature	-5~60°C(Not Frozen)
Applicable soft pipe	PU soft pipe,Nylon pipe
Material	Zinc alloy

SM



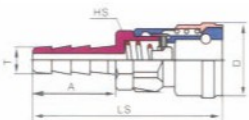
Models	A	BS	D	HS	LS	T
SM-10	9.7	6	26	19H	50.2	1/8PT
SM-20	9.4	6	26	19H	50.2	1/4PT
SM-30	15	8	26	19H	55.8	3/8PT
SM-40	16.5	11.5	26	21H	57.3	1/2PT
SM-60						

SF



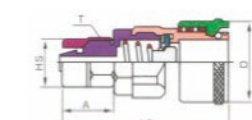
Models	A	BS	D	HS	LS	T
SF-10	9.4	6	26	19H	50.2	1/8PT
SF-20	9.4	6	26	19H	50.2	1/4PT
SF-30	15	8	26	19H	55.8	3/8PT
SF-40	16.5	11.5	26	21H	57.3	1/2PT
SF-60						

SH



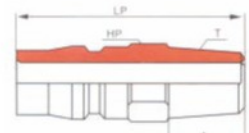
Models	Matched pipe A	D	HS	LS	T
SH-10	φ 6	26	26	19H	66.8
SH-20	φ 8	26	26	19H	66.8
SH-30	φ 10	26	26	19H	66.8
SH-40	φ 12	26	26	21H	66.8
SH-60					

SP



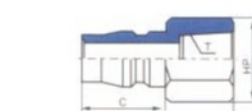
Models	Matched pipe A	D	HS	LS	T
SP-10	φ 6	14.5	26	13.3	55.3
SP-20	φ 8	14.5	26	13.3	55.3
SP-30	φ 10	15	26	13.3	57
SP-40	φ 12	17.5	26	15.8	58.8
SP-60					

PM



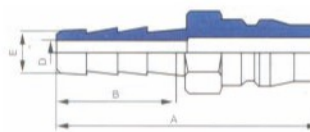
Models	A	HP	LP	T
PM-10	13.8	14H	40.8	1/8PT
PM-20	13.8	14H	40.8	1/4PT
PM-30	14.2	17H	41.2	3/8PT
PM-40	18	21H	43.8	1/2PT
PM-60				

PF



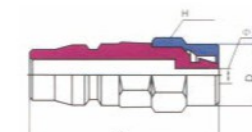
Models	HP	O	LP	T
PF-10	17H	20	36	1/8PT
PF-20	17H	20	36	1/4PT
PF-30	19H	20	36	3/8PT
PF-40	21H	20	37	1/2PT
PF-60				

PH



Models	Matched pipe	A	B	D	E
PH-10	φ 6	52.8	24	4.9	9
PH-20	φ 8	52.8	24	4.9	9
PH-30	φ 10	52.5	24	7.2	9.8
PH-40	φ 12	52.3	24	7	12.6
PH-60					

PP



Models	Matched pipe	B	D	H	LP
PP-10	φ 6	2.9	13.3	14H	44.1
PP-20	φ 8	2.9	13.3	14H	44.1
PP-30	φ 10	3	13.2	15H	44.2
PP-40	φ 12	5.2	15.8	19H	44.7
PP-60					

Self-locked C Type Quick Coupler

Order Code

L	S	M	-	20
Self locked	Main body	M:male thread F:female thread H:pipe plug-in P:pipe locking		Port size 10:1/8" 20:1/4" 30:3/8" 40:1/2"

Technical Specification

Working fluid	Air
Max withstand pressure	1.32MPa(1.35kgf/cm ²)
Max operating pressure	0~0.9MPa(0~9.2kgf/cm ²)
Ambient and fluid temperature	-5~60°C(Not Frozen)
Applicable soft pipe	PU soft pipe,Nylon pipe
Material	Zinc alloy

LSM series

Model
LSM-10
LSM-20
LSM-30
LSM-40



LSF series

Model
LSF-10
LSF-20
LSF-30
LSF-40



LSH series

Model
LSH-10
LSH-20
LSH-30
LSH-40



LSP series

Model
LSP-10
LSP-20
LSP-30
LSP-40



Multi-joint coupler

Model
SML 2
SML 3
SML 4
SML 5
SML 6



Model
SMV 2
SMY 3





BLCH EXECUTIVE COMPONENTS

执行元件



SC/SU Series Standard Cylinder



Order Code

SC/SU	50x50	- S	- FA
Series	bore size X stroke	Magnet	Mounting type
SC: Standard double acting type		Blank: without magnet	Blank: basic type
SU: Standard double acting type		S: with magnet	CA: Single Earring type
SCD: Double rod type			CB: Double Earring type
SCJ: Double rod adjustable stroke type			FA: Front flange type
SCT: Multi-position type			FB: Back flange type
			LB: Front and back type
			TC: Central trunnion type
			TC-M: Center trunnion type with foot

Calculation method of cylinder theoretical output : $F = P \times A$

F: Theoretical output of cylinder (kgf) P: working pressure (kgf/cm²) A: Pressure area of piston (cm²)

Magnetic switch options

Type \ Bore size	32	40	50	63	80	100	125	160
Auto switch	CS1-F CS1-U							
Auto switch mounting base	F-50		F-63		F-100		F-125	F-160

Specification

Bore size(mm)	32	40	50	63	80	100
Acting type	Double acting					
Working Medium	Air(to be filtered by 40 μm filter element)					
Operating pressure	0.1~0.9MPa(1~9kgf/cm ²)					
Proof pressure	1.35 MPa(13.5kgf/cm ²)					
Working Temperature range	-5~60℃(Unfreeze)					
Cushion type	Variable Cushion					
Adjustable cushion stroke (mm)	24				32	
Port size	1/8"	1/4"		3/8"		1/2"
Body material	Aluminum alloy					

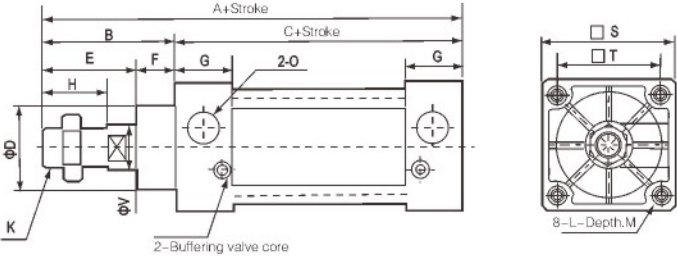
Stroke

Bore size(mm)	Standard Stroke(mm)	Max std Stroke(mm)	Max Stroke(mm)
32	25 50 75 100 125 150 175 200 250 300 350 400 500	1000	2000
40	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800	1200	2000
50	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1200	2000
63	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
80	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
100	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
125	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
160	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000

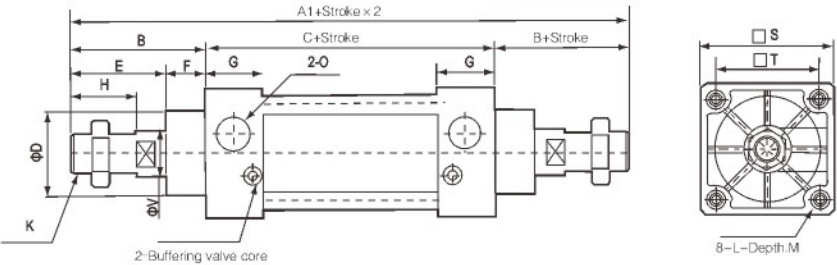
Dimensions (mm)

SC/SU

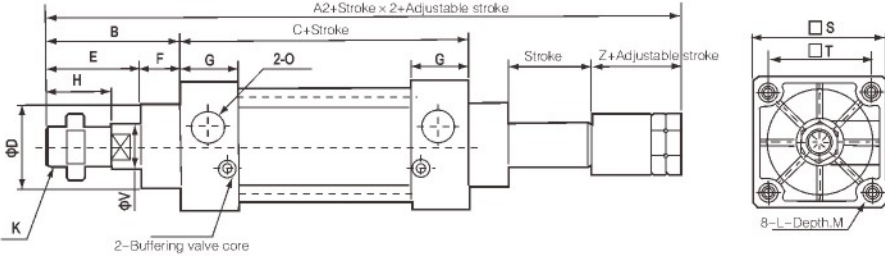
Dimensions (mm)



SCD/SUD



SCJ/SUJ



Bore size(mm)	A	A1	A2	B	C	D	E	F	G	H	K	L	O	S	T	V
32	140	187	182	47	93	28	32	15	27.5	22	M10x1.25	M6x1	G1/8	45	33	12
40	142	191	185	49	93	32	34	15	27.5	24	M12x1.25	M6x1	G1/4	50	37	16
50	150	207	196	57	93	38	42	15	27.5	32	M16x1.5	M6x1	G1/4	62	47	20
63	152	210	199	57	95	38	42	15	27.5	32	M16x1.5	M8x1.25	G3/8	75	56	20
80	183	258	243	75	108	47	54	21	33	40	M20x1.5	M10x1.5	G3/8	94	70	25
100	189	264	249	75	114	47	54	21	33	40	M20x1.5	M10x1.5	G1/2	112	84	25
125	251	357	348	106	145	60	74	32	40	54	M27x2	M12	G1/2	140	110	32
160	312	444	441	132	180	65	94	38	50	72	M36x2	M16	G1/2	180	140	40
200	347	509	472	162	185	75	112	50	50	72	M36x2	M16	G3/4	220	175	40
250	384			189	195	95	119	70	50	84	M42x2	M20	G3/4	280	225	50

DNC Series Standard Cylinder



Order Code

DNC	63x50	-	PPV	A
Series	bore size X stroke		Blank: Without cushion PPV: with cushion	Blank: Standard A: with magnet
DNC: Normal type				
HNC: axial bumpers type				
FNC: Front and back flange				
SNCB: Double earring type				
SNCL: Single earring type				

Specification

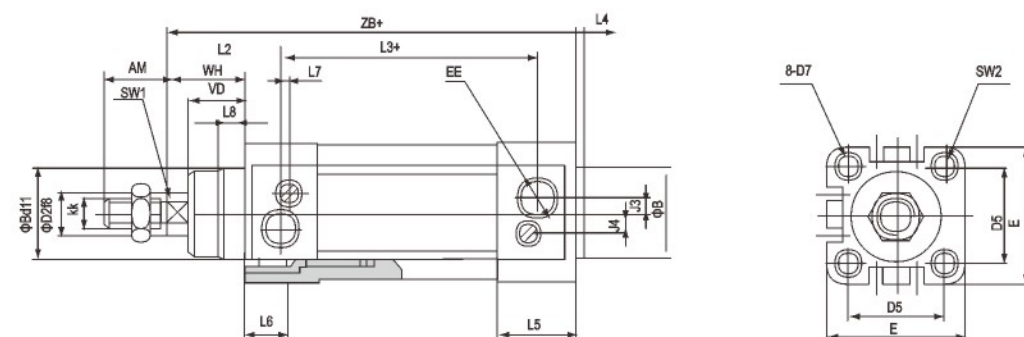
Bore size(mm)	32	40	50	63	80	100
Acting type	Double acting					
Working Medium	Air(to be filtered by 40 μ m filter element)					
Operating pressure	0.1~0.9MPa(1~9kgf/cm ²)					
Proof pressure	1.35MPa(13.5kgf/cm ²)					
Working Temperature range	-5~60℃(Unfreeze)					
Cushion type	Variable Cushion					
Adjustable cushion stroke (mm)	24			32		
Port size	1/8"	1/4"		3/8"		1/2"
Body material	Aluminum alloy					

Stroke

Bore size(mm)	Standard Stroke(mm)	Max std Stroke(mm)	Max Stroke(mm)
32	25 50 75 100 125 150 175 200 250 300 350 400 500	1000	2000
40	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800	1200	2000
50	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1200	2000
63	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
80	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
100	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
125	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000
160	25 50 75 100 125 150 175 200 250 300 350 400 500 600 700 800 900 1000	1500	2000

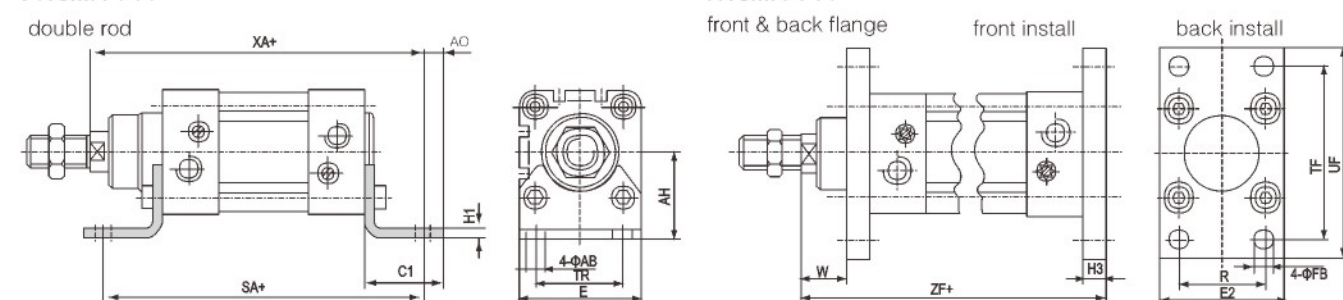
Dimensions (mm)

DNC...PPV-A
Basic type



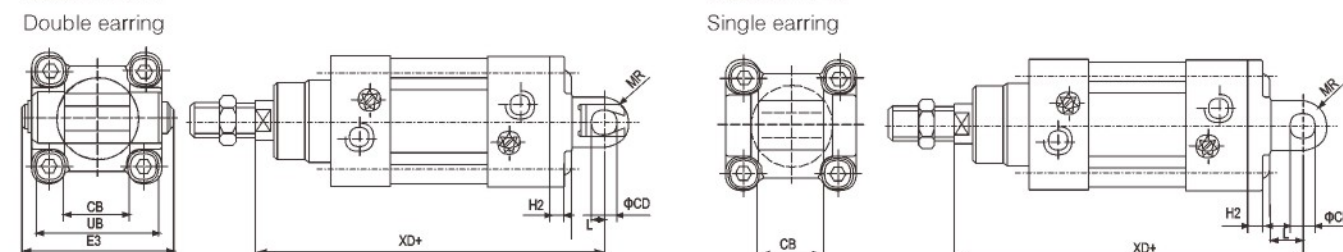
bore size(mm)	AM	E	D2	D5	D7	E	EE(G)	J3	J4	KK	L2	L3	L4	L5	L6	L7	L8	SW1	SW2	VD	WH	ZB
32	22	30	12	32.5	M6	45	1/8	6	5.2	M10x1.25	41.6	62.8	4	25.1	16	3.3	10	10	6	18	26	120
40	24	35	16	38	M6	54	1/4	8	6	M12x1.25	44	77	4	29.6	16	3.6	10.5	13	6	21.5	30	135
50	32	40	20	46.5	M8	64	1/4	10	8.5	M16x1.5	51	78	4	29.6	17	5.1	11.5	17	8	28	37	143
63	32	45	20	56.5	M8	75	3/8	12.4	10	M16x1.5	54	87	4	35.6	17	6.6	15	17	8	28.5	37	158
80	40	45	25	72	M10	93	3/8	12.5	8	M20x1.5	52.4	95.2	4	35.9	17	10.5	15.7	22	10	34.7	46	174
100	40	55	25	89	M10	100	1/2	11.8	10	M20x1.5	69.8	100.4	4	38.8	100	8	19.2	22	10	38.2	51	189

DNC...PPV-A



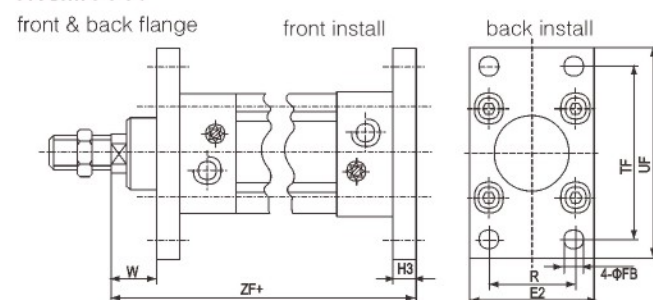
bore size(mm)	AB	AH	AO	C1	E	H1	SA	TR	XA	E2	H13	H3	R	TF	UF	W	ZF
32	7	32	6.5	30.5	45	5	142	32	144	50	7	10	32	64	80	16	130
40	10	36	9	37	54	5	161	36	163	55	9	10	36	72	90	20	145
50	10	45	10.5	41.5	64	6	170	45	175	65	9	12	45	90	110	25	155
63	10	50	12.5	44.5	75	6	185	50	190	75	9	12	50	100	125	25	170
80	12	63	15	56	93	6	210	63	215	100	12	16	63	126	154	30	190
100	14	71	17.5	58.5	100	6	220	78	230	120	14	16	75	150	186	35	205

SNCB...PPV-A

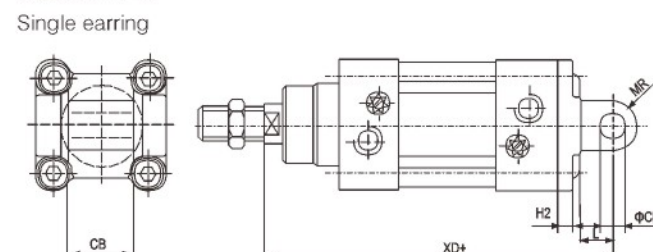


bore size(mm)	CB	DB	E3	H2	L	MR	UB	XD
32	26	10	55	6	13	10	45	142
40	28	12	63	6	16	12	52	160
50	32	12	71	7	16	12	60	170
63	40	16	83	7	21	16	70	190
80	50	16	103	10.5	22	16	90	210
100	60	20	127	10.5	27	20	110	230

FNC...PPV-A



SNCL...PPV-A

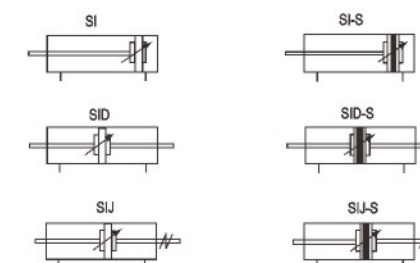


bore size(mm)	CB	DB	E3	H2	L	MR	UB	XD
32	26	10	55	6	13	10	45	142
40	28	12	63	6	16	12	52	160
50	32	12	71	7	16	12	60	170
63	40	16	83	7	21	16	70	190
80	50	16	103	10.5	22	16	90	210
100	60	20	127	10.5	27	20	110	230

SI Series Standard Cylinder



Symbol



Order Code

SIJ	-	50	x	50	-	S	-	20	-	LB*
Model		bore size		strokes		Magnet		adjustable stroke		mounting type
SI: ISO6431 Standard double acting type						Blank: without magnet		10: 10mm		
SID: ISO 6431 Standard double rod acting type						S: with magnet		20: 20mm		
SIJ: ISO6431 Standard double acting with adjustable stroke								30: 30mm		
								40: 40mm		
								50: 50mm		
								75: 75mm		
								100: 100mm		

	mounting type	suit series	remark
Blank	SI	SID	SIJ
LB	SI	SID	SIJ
FA	SI	SID	SIJ
FB	SI		
CA	SI		
CB	SI		
TC	SI	SID	SIJ
TC-M-1	SI	SID	SIJ
TC-M-2	SI	SID	SIJ

Specification

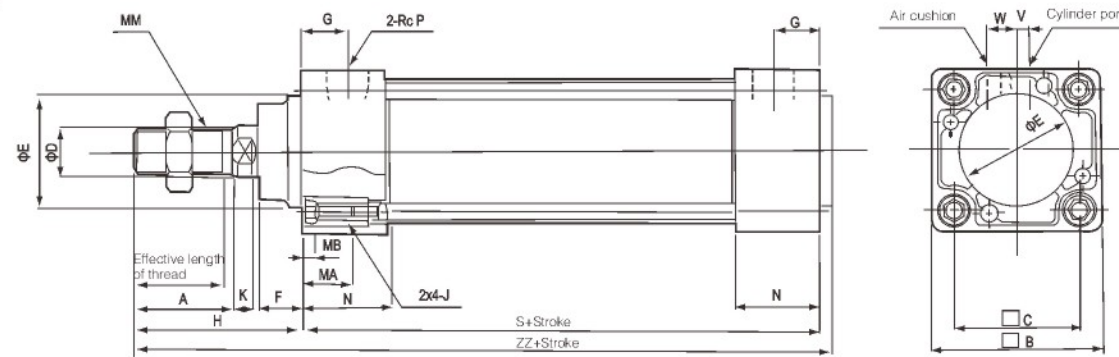
Bore size(mm)		32	40	50	63	80	100	125	160	200
Acting type		Double acting								
Working Medium		Air(to be filtered by 40 μ m filter element)								
Fixing Type	SI	Basic type FA FB CA CB LB TC TC-M-1 TC-M-2								
	SID	Basic type FA LB TC TC-M-1 TC-M-2								
	SIJ	Basic type FA LB TC TC-M-1 TC-M-2								
Operating pressure		0.1~0.9MPa(14~128Psi)								
Proof pressure		1.5MPa(213Psi)								
Working Temperature range		-5~60℃(Unfreeze)								
Using Speed Range Mm/s		SI series:50~800 other series:30~800								
Cushion type		Variable Cushion								
Adjustable cushion stroke (mm)		24							32	
Port size		PT1/8	PT1/4	PT3/8			PT1/2		PT3/4	

Stroke

Bore Size(mm)	Standard Stroke(mm)	Max std Stroke(mm)	Max Stroke(mm)
32	25 50 75 80 100 125 150 160 175 200 250 300 400 450 500	1000	2000
40	25 50 75 80 100 125 150 160 175 200 250 300 400 450 500 600 700 800	1200	2000
50	25 50 75 80 100 125 150 160 175 200 250 300 400 450 500 600 700 800 900 1000	1200	2000
63	25 50 75 80 100 125 150 160 175 200 250 300 400 450 500 600 700 800 900 1000	1500	2000
80	25 50 75 80 100 125 150 160 175 200 250 300 400 450 500 600 700 800 900 1000	1500	2000
100	25 50 75 80 100 125 150 160 175 200 250 300 400 450 500 600 700 800 900 1000	1500	2000
125	25 50 75 80 100 125 150 160 175 200 250 300 400 450 500 600 700 800 900 1000	1500	2000
160	25 50 75 80 100 125 150 160 175 200 250 300 400 450 500 600 700 800 900 1000	1500	2000
200	25 50 75 80 100 125 150 160 175 200 250 300 400 450 500 600 700 800 900 1000	1500	2000

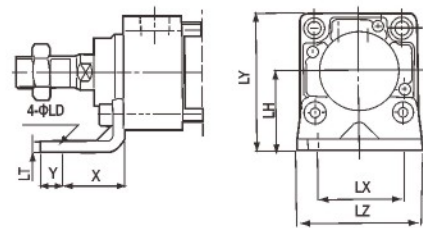
Dimensions (mm)

Basic type

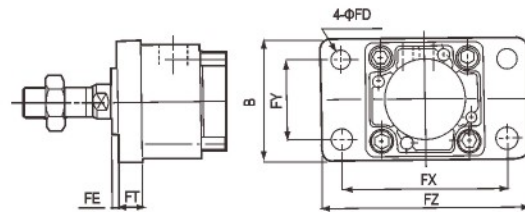


Bore size (mm)	Stroke range (mm)	Effective length of thread	A	□B	□C	φD	φE	F	G	MA	MB	J	K	MM	N	P	S	V	W	H	ZZ
32	~500	19.5	22	46	32.5	12	30	13	13	16	4	M6x1.0	6	M10x1.25	27	1/8	84	4	6.5	47	135
40	~500	27	30	52	38	16	35	13	14	16	4	M6x1.0	6	M14x1.5	27	1/4	84	4	9	51	139
50	~600	32	35	65	46.5	20	40	14	15.5	16	5	M8x1.25	7	M18x1.5	31.5	1/4	94	5	10.5	58	156
63	~600	32	35	75	56.5	20	45	14	16.5	16	5	M8x1.25	7	M18x1.5	31.5	3/8	94	9	12	58	156
80	~800	37	40	95	72	25	45	20	19	16	5	M10x1.5	10	M22x1.5	38	3/8	114	11.5	14	72	190
100	~800	37	40	114	89	30	55	20	19	16	5	M10x1.5	10	M26x1.5	38	1/2	114	17	15	72	190
125	~1000	50	54	136	110	32	60	27	19	20	6	M12x1.75	13	M27x2.0	38	1/2	120	17	15	97	223

Foot type

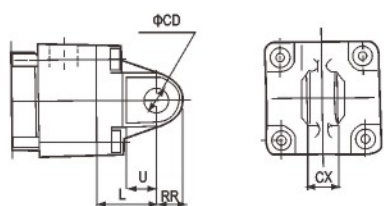


Flange type



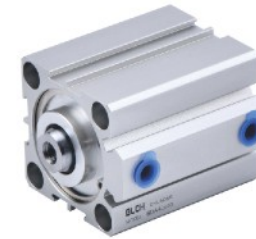
Bore size (mm)	Foot											Flange							
	Part Number	X	Y	φLD	LH	LS	LT	LX	LY	LZ	ZZ	Part Number	B	φFD	FE	FT	FX	FY	FZ
32	MB-L03	22	9	7	30	128	3.2	32	53	50	162	MB-F03	50	7	3	10	64	32	79
40	MB-L04	24	11	9	33	132	3.2	38	59	55	170	MB-F04	55	9	3	10	72	36	90
50	MB-L05	27	11	9	40	148	3.2	46	72.5	70	190	MB-F05	70	9	2	12	90	45	110
63	MB-L06	27	14	12	45	148	3.6	56	82.5	80	193	MB-F06	80	9	2	12	100	50	120
80	MB-L08	30	14	12	55	174	4.5	72	102.5	100	230	MB-F08	100	12	4	16	126	63	153
100	MB-L10	32	16	14	65	178	5	89	122	120	234	MB-F10	120	14	4	16	150	75	178
125	MB-L12	45	20	14	81	210	8	90	149	136	282	MB-F12	138	14	7	20	180	102	213

single earring type



Bore size (mm)	Single Earring					
	Part Number	L	RR	U	φCD	CX
32	MB-C03	23	10.5	13	10	14
40	MB-C04	23	11	13	10	14
50	MB-C05	30	15	17	14	20
63	MB-C06	30	15	17	14	20
80	MB-C08	42	23	26	22	30
100	MB-C10	42	23	26	22	30
125	MB-C12	50	28	30	25	32

SDA Series compact Cylinder Order Code



model code
 SDA: compact cylinder(double acting)
 SSA: compact cylinder(single acting push)①
 STA: compact cylinder(single acting pull)②
 SDAD: compact cylinder(double rod)
 SDAJ: compact cylinder(adjustable stroke)

SDA 20-30 S B □
 SDAD20-30 S B □
 SDAJ20-30-30 S B □

Thread code①
 Blank: g thread
 T: PT thread
 Rod thread
 Blank: female thread type
 B: male thread type
 Magnet
 Blank: without magnet
 S: with magnet

Product specifications	Bore size
SSA/STA	12 16 20 25 32 40 50 63
Other specification	12 16 20 25 32 40 50 63 80 100

Bore size

Stroke

Please refer to table of stroke

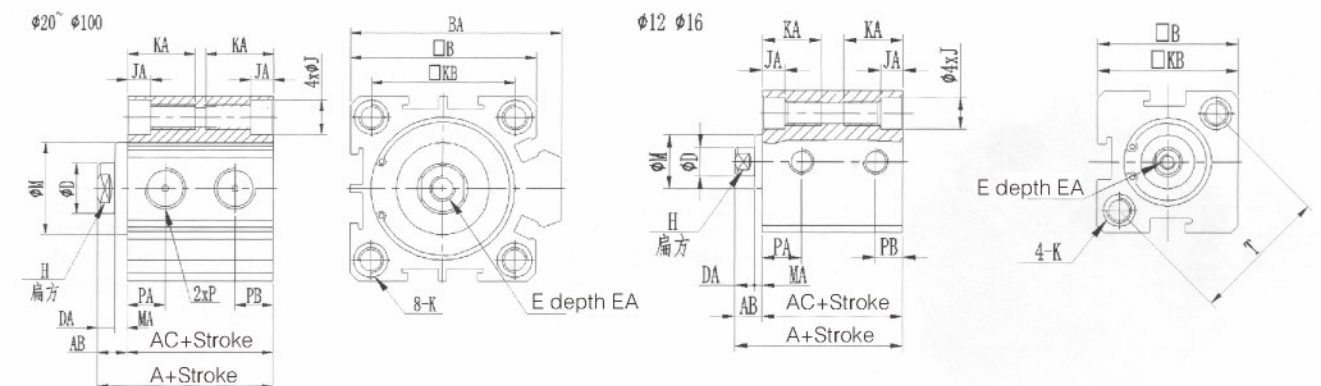
①When the interface thread is M5jf, this code is empty
 ②The single acting push type means that the piston rod extends during ventilation, the front spring is compressed, and retracts when the air is cut off.
 The single acting pull type means that the piston rod retracts when the air is ventilated, the rear spring is compressed, and extends when the air is cut off.

Product specifications	Adjustable stroke
SDAJ	10:10mm 20:20mm 30:30mm 40:40mm 50:50mm 75:75mm 100:100mm
Other Specification	Blank

Specification

Bore size(mm)	12	16	20	25	32	40	50	63	80	100
Acting type	Double acting									
Working Medium	Air(to be filtered by 40 μ m filter element)									
Operating pressure range	Double Acting: 0.1 ~ 1.0MPa(15 ~ 145psi)(1.0 ~ 10.0bar)(1 ~ 10kg/cm2) Single Acting: 0.2 ~ 1.0MPa (28 ~ 145psi)(2.0 ~ 10.0bar)									
Proof pressure	1.5MPa(215psi)(15bar)									
Working Temperature range	-5~60℃(Unfreeze)									
using speed range mm/s	double acting: 30 ~ 500、single acting: 50 ~ 500									
stroke tolerance range	0~+1.0									
Cushion type	Bumper									
Port size	M5x0.8					G1/8		G1/4		G3/8

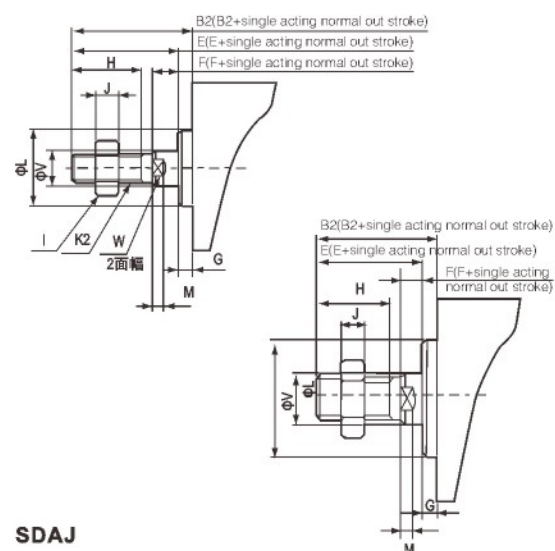
Dimensions (mm)



Bore size(mm)	A		AB	AC		B	BA	D	DA	E	EA	H	J	JA	KA	KB	M	MA	P	PA		PB		T
	standard	with magnet		standard	with magnet															St=5	St>5	St=5	St>5	
12	22	32	5	17	27	25	—	6	4	M3×0.5	6	5	6.5	4.5	12	16.3	10.2	1	M5×0.8	7.5	7.5	5	5	23
16	24	34	5.5	18.5	28.5	29	—	6	4	M3×0.5	6	5	6.5	4.5	12	19.8	11	1.5	M5×0.8	8	8	5	5.5	28
20	25	35	5.5	19.5	29.5	34	36	8	4	M4×0.7	8	6	6.5	4.5	14	24	13	1.5	M5×0.8	8	9	5	5.5	—
25	27	37	6	21	31	40	42	10	4	M5×0.8	10	8	8.2	5.5	15	28	17	2	M5×0.8	9	9	5.5	5.5	—
32	31.5	41.5	7	24.5	34.5	44	50	12	4.5	M6×1.0	12	10	8.2	5.5	16	34	22	2.5	PT1/8	9	9	6.5	9	—
40	33	43	7	26	36	52	58.5	16	4	M8×1.25	12	14	10.5	6.5	20	40	28	3	PT1/8	9.5	9.5	7.5	7.5	—
50	37	47	9	28	38	62	71.5	20	5	M10×1.5	15	17	10.5	6.5	25	48	38	4	PT1/4	8	10.5	8	10.5	—
63	41	51	9	32	42	75	84.5	20	5	M10×1.5	15	17	10.5	6.5	25	60	40	4	PT1/4	9.5	12	9.5	11	—
80	52	62	11	41	51	94	104	25	6	M14×1.5	20	22	17	11	25	74	45	5	PT3/8	11.5	14.5	11.5	14.5	—
100	63	73	12	51	61	114	124	32	7	M18×1.5	20	27	19	13	30	90	55	5	PT3/8	16	20.5	16	20.5	—

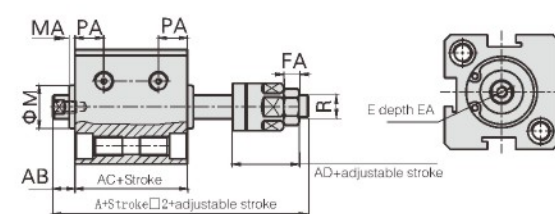
Φ12-Φ16

Φ20-Φ100

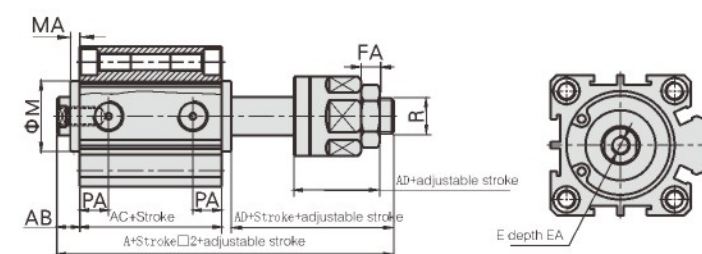


SDAJ

Φ12、Φ16



Φ20-Φ100

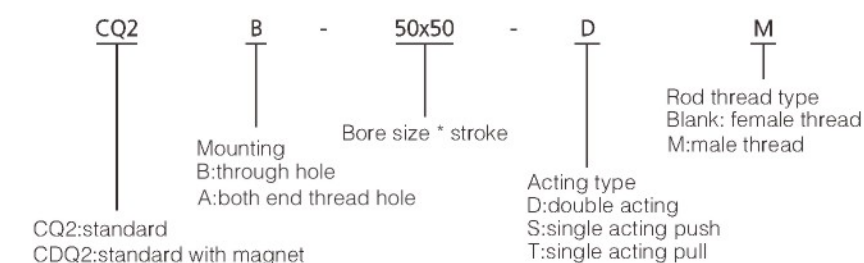


Bore size(mm)	A		AB	AC		AD	E	EA		FA	M	MA	PA		R
	standard	with magnet		standard	with magnet			St≤10	St>10				St=5	St>5	
12	40	50	5	17	27	17	M3×0.5	6	6	4	10.2	1	5.5	6.3	M5×0.8
16	42.5	52.5	5.5	18.5	28.5	17	M3×0.5	6	6	4	11	1.5	6.5	7.3	M5×0.8
20	47.5	57.5	5.5	19.5	29.5	21	M4×0.7	8(St=5時6.5)	5	15	1.5	7.5	7.5	—	M6×1.0
25	54	64	6	21	31	25	M5×0.8	10(St=5時7)	6	17	2	8	8	—	M8×1.25
32	61.5	71.5	7	24.5	34.5	27	M6×1.0	8	12	6	22	3	8	9	M10×1.25
40	64	74	7	26	36	28	M8×1.25	8	12	7	28	3	8	10	M12×1.25
50	70	80	9	28	38	29	M10×1.5	8	15	8	38	4	8	10.5	M16×1.5
63	74	84	9	32	42	29	M10×1.5	10	15	8	40	4	9.5	11.8	M16×1.5
80	92.5	102.5	11	41	51	35.5	M14×1.5	13	20	10	45	5	11.5	14.5	M20×1.5
100	110.5	120.5	12	51	61	42.5	M18×1.5	18	20	13.5	55	5	16	20.5	M27×2.0

CQ2 series compact cylinder



Order Code



criteria for selection

type	bore size	16	20	25	32	40	50	63	80	100	125	160
auto switch		D-A73L D-A93										

Specification

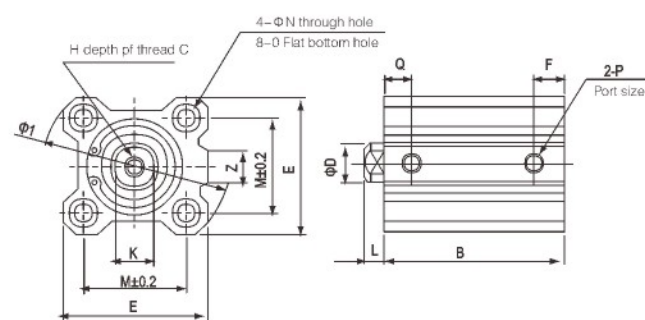
Bore size(mm)	12	16	20	25	32	40	50	63	80	100
Acting type	Double acting									
Working Medium	Air(to be filtered by 40 μ m filter element)									
Operating pressure	0.1~0.9MPa(1~9kgf/cm ²)									
Proof pressure	1.35MPa(13.5kgf/cm ²)									
Working Temperature range	-5~60℃(Unfreeze)									
Cushion type	with Cushion									
Port size	M5				1/8 "		1/4 "		3/8 "	
Body material	Aluminum alloy									

Stroke

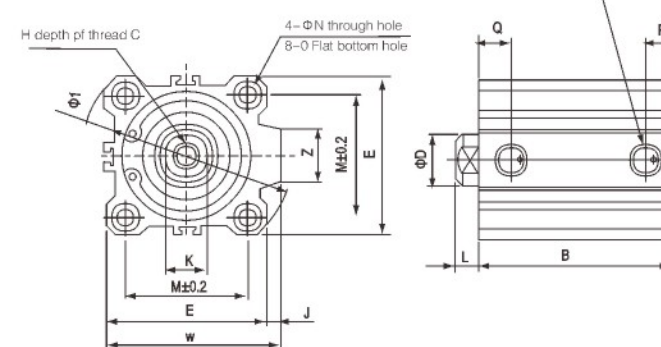
Bore size(mm)	Standard Stroke(mm)	Max std Stroke(mm)	Max Stroke(mm)
12	5 10 15 20 25 30 35 40 45 50	50	60
16	5 10 15 20 25 30 35 40 45 50	50	60
20	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80	80	90
25	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80	80	90
32	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	130	150
40	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	130	150
50	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	130	150
63	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	130	150
80	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	130	150
100	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	130	150

Dimensions (mm)

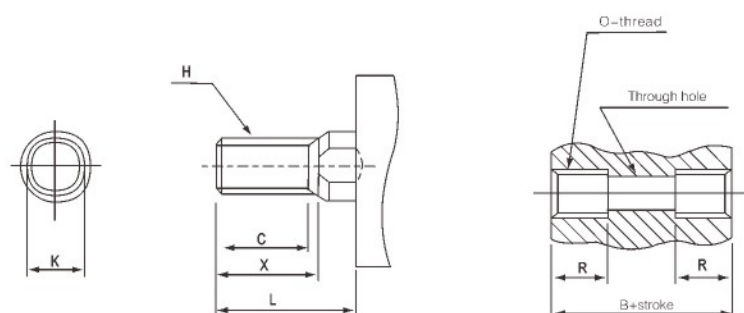
Φ12~Φ16



Φ12~Φ100



bore size(mm)	B	ΦD	E	F	H	C	I	J	K	L	M	ΦN	ΦO	P	Q	W	Z
12	17+st	6	25	5	M3x0.5	6	32	-	5	3.5	15.5	3.5	6.5depth3.5	M5x0.8	7.5	-	-
16	18.5+st	8	29	5.5	M4x0.7	8	38	-	6	3.5	20	3.5	6.5depth3.5	M5x0.8	8	-	10
20	19.5+st	10	36	5.5	M5x0.8	7	47	-	8	4.5	25.5	5.5	9depth7	M5x0.8	9	-	10
25	22.5+st	12	40	5.5	M6x1.0	12	52	-	10	5	28	5.5	9depth7	M5x0.8	11	-	10
32	23+st	16	45	7.5	M8x1.25	13	60	4.5	14	7	34	5.5	9depth7	1/8	10.5	49.5	18
40	29.5+st	16	52	8	M8x1.25	13	69	5	14	7	40	5.5	9depth7	1/8	11	57	18
50	30.5+st	20	64	10.5	M10x1.5	15	86	7	17	8	50	6.6	11depth3	1/4	10.5	74	22
63	36+st	20	77	10.5	M10x1.5	15	103	7	17	8	60	9	14depth10.5	1/4	15	84	22
80	43.5+st	25	98	12.5	M16x2.0	21	132	6	22	10	77	11	17depth13.5	3/8	16	104	26
100	53+st	30	117	13	M20x2.5	27	156	6.5	27	12	94	11	17depth13.5	3/8	23	123.5	26



Bore size(mm)	C	X	D	H	L	K	O	R
12	9	10.5	6	M5x0.8	14	5	M4x0.7	7
16	10	12	8	M6x1.0	15.5	6	M7x0.7	7
20	13	14	10	M8x1.25	18.5	8	M6x1.0	10
25	15	17.5	12	M10x1.25	22.5	10	M6x1.0	10
32	20.5	23.5	16	M14x1.5	28.5	14	M6x1.0	10
40	20.5	23.5	16	M14x1.5	28.5	14	M6x1.0	10
50	26	28.5	20	M18x1.5	33.8	17	M8x1.25	14
63	26	28.5	20	M18x1.5	33.5	17	M10x1.5	18
80	32.5	35.5	25	M22x1.5	43.5	22	M12x1.75	22
100	32.5	35.5	30	M26x1.5	43.5	27	M12x1.75	22

CQS series compact cylinder



Order Code

CQS	-	50x50	-	B	M
		bore size * stroke		Acting type D:double acting S:single acting push T:single acting pull	Rod thread type Blank: female thread M:male thread
CQS:standard CDQS:standard with magnet					

Criteria for selection

Bore size	12	16	20	25
Type				
Auto switch	D-A93			

Specification

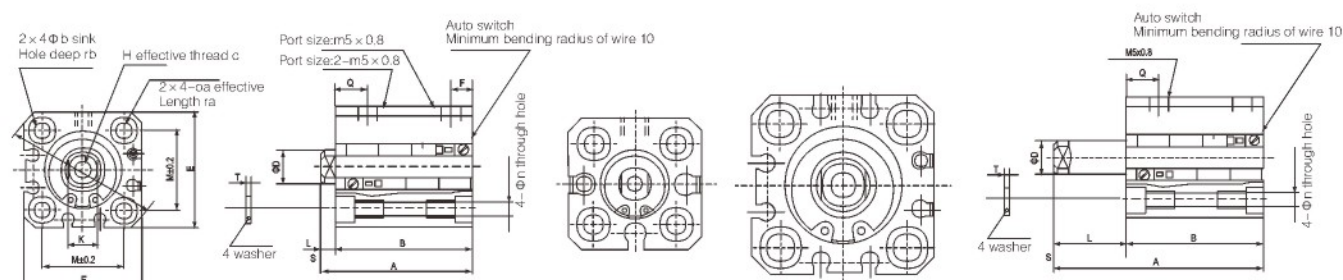
Bore size(mm)	12	16	20	25
Acting type	Double acting			
Working Medium	Air(to be filtered by 40 μ m filter element)			
Operating pressure	0.1~0.9MPa(1~9kgf/cm ²)			
Proof pressure	1.35MPa(13.5kgf/cm ²)			
Working Temperature range	-5~60℃(Unfreeze)			
Cushion type	without Cushion			
Port size	M5			
Body material	Aluminum alloy			

Stroke

bore size(mm)	Standard Stroke(mm)	Max std Stroke(mm)	Max Stroke(mm)
12	5 10 15 20 25 30	50	60
16	5 10 15 20 25 30	50	60
20	5 10 15 20 25 30 35 40 45 50	80	90
25	5 10 15 20 25 30 35 40 45 50	80	90

Dimensions (mm)

Through hole screw holes at both ends are same/cqsb cdasb



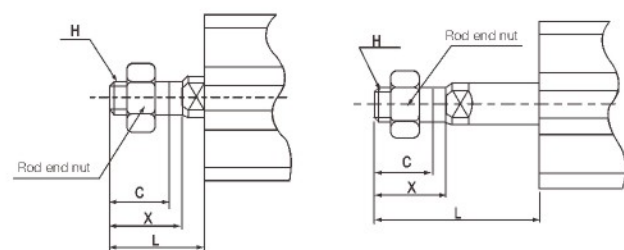
Bore size(mm)	Standard													Double acting (standard)					Built-in magnet type		
	C	D	E	H	I	K	M	N	OA	OB	RA	RB	T	Q	A	B	F	L	Q	A	B
12	6	6	25	M3x0.5	32	5	15.5	3.5	M4x0.7	6.5	7	4	0.5	7.5	20.5+st	17+st	5	3.5	7.5	25.5+st	22+st
16	8	8	29	M4x0.7	38	6	20	3.5	M4x0.7	6.5	7	4	0.5	7.5	22.5+st	17+st	5	3.5	7.5	25.5+st	22+st
20	7	10	36	M5x0.8	47	8	25.5	5.4	M6x1.0	9	10	7	1	9	24+st	19.5+st	5.5	4.5	9	34+st	29.5+st
25	12	12	40	M6x1.0	52	10	28	5.4	M6x1.0	9	10	7	1	11	27.5+st	22.5+st	5.5	5	11	37.5+st	32.5+st

Single acting spring out

Bore size(mm)	Standard						Built-in magnet type			
	A		B		F	L	A		B	
	5st	10st	5st	10st			5st	10st	5st	10st
12	25.5	30.5	22	27	5	3.5	30.5	35.5	27	32
16	25.5	30.5	22	27	5	3.5	30.5	35.5	27	32
20	29	34	24.5	29.5	5.5	4.5	39	44	34.5	39.5
25	32.5	37.5	27.5	32.5	5.5	5	42.5	47.5	37.5	42.5

Single acting spring back

Bore size(mm)	Standard							Built-in magnet type			
	A		B		L		Q	A		B	
	5st	10st	5st	10st	5st	10st		5st	10st	5st	10st
12	30.5	40.5	22	27	8.5	13.5	7.5	30.5	35.5	27	32
16	30.5	40.5	22	27	8.5	13.5	7.5	30.5	35.5	27	32
20	34	39	24.5	29	9.5	14.5	9	39	44	34.5	39.5
25	37.5	42.5	32.5	32.5	10	15	11	42.5	47.5	37.5	42.5

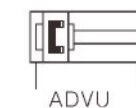


Bore size(mm)	C	H	L	X
12	90	M5x0.8	14	10.5
16	10	M6x1.0	15.5	12
20	12	M8x1.25	18.5	14
25	15	M10x1.25	22.5	17.5

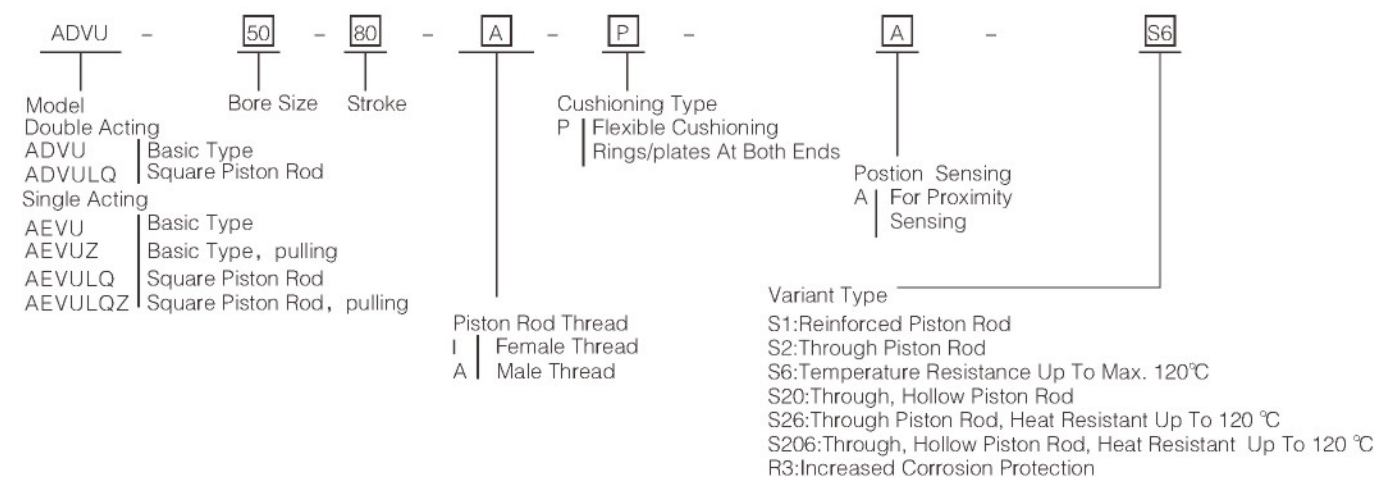
Bore size(mm)	C	H	L(5XY)	L(10XY)	X
12	90	M5x0.8	19	12	10.5
16	10	M6x1.0	20.5	16	12
20	12	M8x1.25	23.5	20	14
25	15	M10x1.25	27.5	25	17.5

ADVU seris compact cylinder

Symbol



Order Code



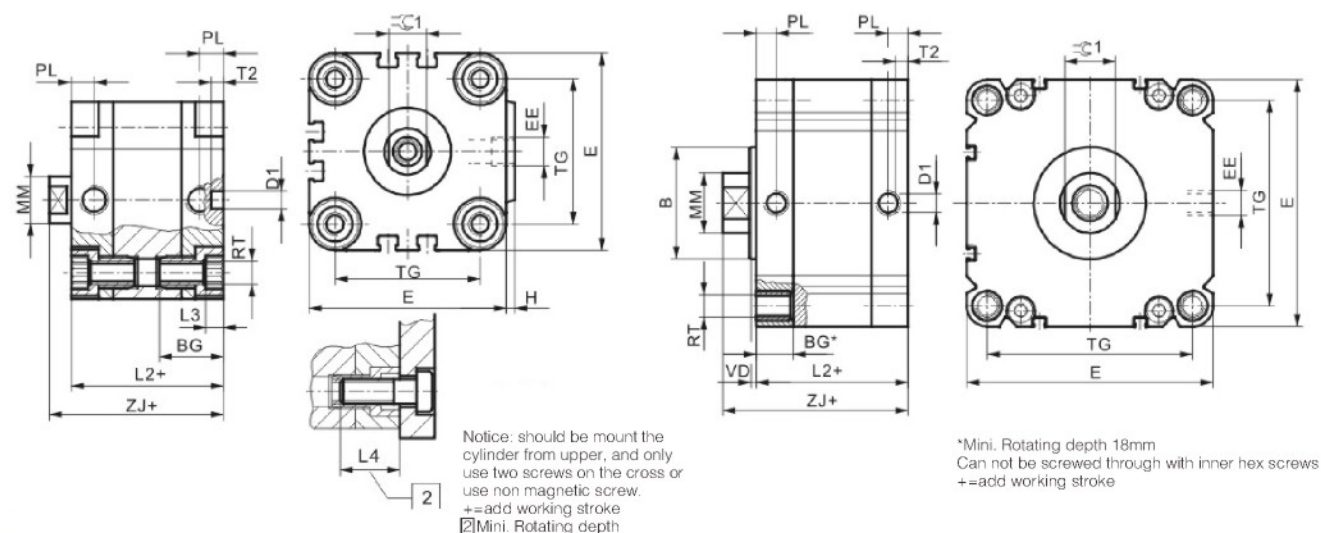
Specification

Bore size(mm)		12	16	20	25	32	40	50	63	80	100	125
Port Size		M5	M5	M5	M5	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8	G1/4
Piston Rod End	female thread	M3	M4	M4	M5	M6	M6	M8	M8	M8	M12	M12
	male thread	M6	M8	M10 × 1.5				M12 × 1.5		M16 × 1.5	M20 □ 1.5	M27 □ 2
Working Medium		Compressed air in accordance with ISO 85731:2010 [7:4:4]										
Note On Operating/pilot Medium:		Operation with lubricated medium possible (in which case lubricated operation will always be required)										
Theoretical Force At 6 Bar, Advancing		68	121	188	295	483	754	1178	1870	3016	4712	7363
	S2/S20	51	90	141	247	415	686	1057	1750	2727	4418	6881
Theoretical Force At 6 Bar, Retracting		51	90	141	247	415	686	1057	1750	2827	4418	6881
	S2/S20	51	90	141	247	415	686	1057	1750	2827	4418	6881
Max. Impact Energy At End Positions		0.09	0.10	0.14	0.30	0.40	0.52	0.64	0.70	0.75	1.00	4.00
	S20	0.01	0.01	0.01	0.01	0.04	0.05	0.06	0.07	0.08	0.10	0.40
Structure Feature		piston,piston rod										
Cushioning		spring cushioning at both ends										
Position Sensing		with position sensing										
Type of mounting	Via thought hole											
	Via female thread											
	Via mounting plate											
Mounting position		any										

Dimensions (mm)

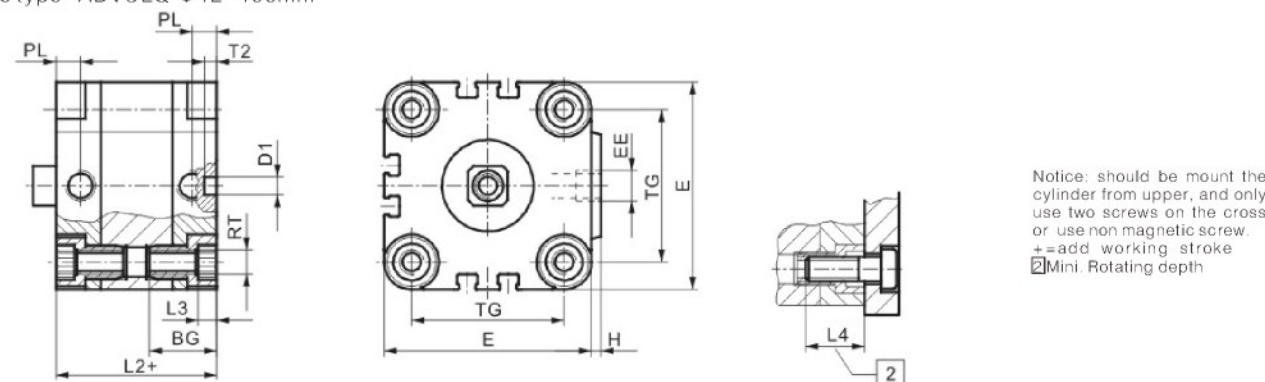
basic type-ADVU Φ 12~100mm

Φ 125mm



Φ (mm)	B d11	BG	D1 Φ H9G	E	EE	H	L2	L3	L4	MM Φ	PL	RT	T2 -0.2	TG	VD	ZJ	$\angle$ 1h13
12	-	18.5	6	29	M5	1	38	3	16	6	8	M4	4	18	-	42.5	5
16	-	18.5	6	29	M5	1	38	3	16	8	8	M4	4	18	-	42.5	7
20	-	18.5	6	36	M5	1.5	38	4	18	10	8	M5	4	22	-	42.5	9
25	-	18.5	6	40	M5	1.5	39.5	4	108	10	8	M5	4	26	-	45	9
32	-	21.5	6	50	G1/8	2	44.5	5	20	12	8	M6	4	32	-	50.5	10
40	-	21.5	6	60	G1/8	2.5	45.5	5	20	12	8	M6	4	42	-	52	10
50	-	22	6	68	G1/8	3	45.5	6	20	16	8	M8	4	50	-	53	13
63	-	24.5	8	87	G1/8	4	50	8	25	16	8	M10	4	62	-	57.5	13
80	-	27.5	8	107	G1/8	4	56	8	25	20	8.5	M10	4	82	-	64	17
100	-	32.5	8	128	G1/4	5	66.5	8	25	25	10.5	M10	4	103	-	76.5	22
125	60	19.5	10	132	G1/4	-	81	-	18	32	10.5	M12	6	110	4	99	27

basic type-ADVULQ Φ 12~100mm



Φ (mm)	BG	D1 Φ H9G	E	EE	H	L2	L3	L4	PL	RT	T2 -0.2	TG
12	18.5	6	29	m5	1	38	3	16	8	M4	4	18
16	18.5	6	29	m5	1	38	3	16	8	M4	4	18
20	18.5	6	36	m5	1.5	38	4	18	8	M5	4	22
25	18.54	6	40	m5	1.5	39.5	4	18	8	M5	4	26
32	21.5	6	50	G1/8	2	44.5	5	20	8	M6	4	32
40	21.5	6	60	G1/8	2.5	45.5	5	20	8	M6	4	42
50	22	6	68	G1/8	3	45.5	6	20	8	M8	4	50
63	24.5	8	87	G1/8	4	50	8	25	8	M10	4	62
80	27.5	8	107	G1/8	4	56	8	25	8.5	M10	4	82
100	32.5	8	128	G1/4	5	66.5	8	25	10.5	M10	4	103

MAL series aluminum mini cylinder



Order Code

MAL	CA	32x50	-	B	FA
	Back cover Blank: pivot type Cm:round type U:flat-end type	Bore size*stroke			Mounting type Blank: basic Fa:front flange type Sdb:back flange type Lb:foot bracket type
Series					Magnet Blank: without magnet S:with magnet
Mal: standard double acting type Mald: double rod double acting Malj: double rod adjustable stroke Msal: single acting push					

Criteria for selection

Type	Bore size	16	20	25	32	40
auto switch				CS1-F CS1-U		
Auto switch mounting base		MAL-16	MAL-20	MAL-25	MAL-32	MAL-40

Specification

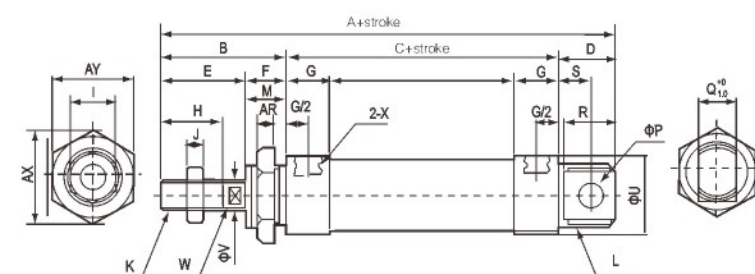
Bore size(mm)	16	20	25	32	40
Acting type	Double acting				
Working Medium	Air(to be filtered by 40 μ m filter element)				
Operating pressure	0.1~0.9MPa(1~9kgf/cm ²)				
Proof pressure	1.35MPa(13.5kgf/cm ²)				
Working temperature range	-5~60℃(unfreeze)				
Cushion type	Bumper				
Port size	M5	1/8"			
Body material	Stainless steel				

Stroke

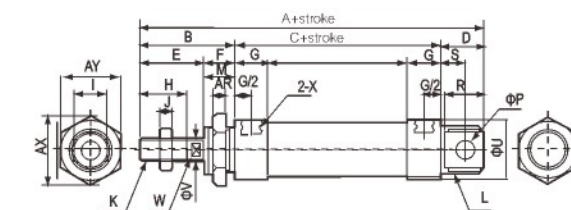
Bore size(mm)	Standard stroke(mm)	Max std stroke(mm)	Max stroke(mm)
12	25 50 75 100 125 150 175 200 250 300	500	800
16	25 50 75 100 125 150 175 200 250 300	500	800
20	25 50 75 100 125 150 175 200 250 300 350 400 500	800	1200
25	25 50 75 100 125 150 175 200 250 300 350 400 500	800	1200
40	25 50 75 100 125 150 175 200 250 300 350 400 500	1200	1500

Dimensions (mm)

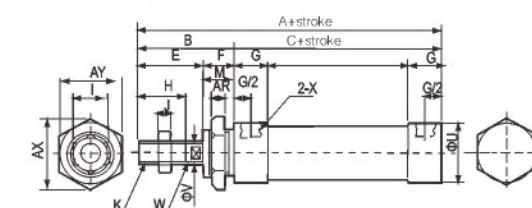
CA:blank: pivot type



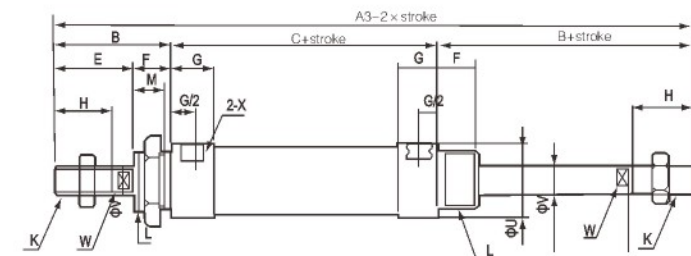
CM:round type



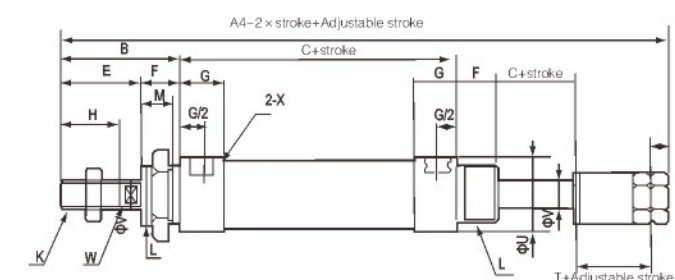
U:flat-end type



MALD:double rod double acting



MALJ:double rod adjustable stroke



bore size(mm)	A	A1	A2	A3	A4	B	C	D	D1	E	F	G	H	I	J
16	107	108	92	131	137	40	51	16	16	24	16	10	16	10	5
20	131	122	110	150	147	40	70	21	12	28	12	16	20	12	5
25	135	128	114	158	154	44	70	21	14	30	14	16	22	17	6
32	141	128	114	158	154	44	70	21	14	30	14	-	22	17	6
40	143	130	116	162	160	46	70	27	14	32	14	-	24	19	7

bore size(mm)	K	L	M	P	Q	R	S	U	V	X	AR	AX	AY
16	M6x1	M16x1.5	14	6	12	16	10	22	6	M5	6	25	22
20	M8x1.25	M22x1.5	10	8	16	19	12	30	8	RC1/8	7	33	29
25	M10x1.25	M22x1.5	12	8	16	19	12	34	10	RC1/8	7	33	29
32	M10x1.25	M24x2.0	12	10	16	25	15	39	12	RC1/8	8	37	32
40	M12x1.25	M30x2.0	12	12	20	25	15	49	16	RC1/4	9	47	41

MA Series stainless steel Mini Cylinder



Order Code

MA	CA	32x50	-	S	FA
Series	back cover	bore size*stroke		magnet	mounting type
MA: Standard double acting type	blank: pivot type			S:with magnet	blank: basic
MAD: Double rod double acting	CM:round type				FA:front flange type
MAJ: double rod adjustable stroke	U:flat-end type				FB:back flange type
MAC: double acting with cushion					LB:foot bracket type
					SDB:rotary bracket type

Criteria for selection

type	bore size	16	20	25	32	40
auto switch				CS1-F CS1-U		
auto switch mounting base		MA-16	MA-20	MA-25	MA-32	MA-40

Specification

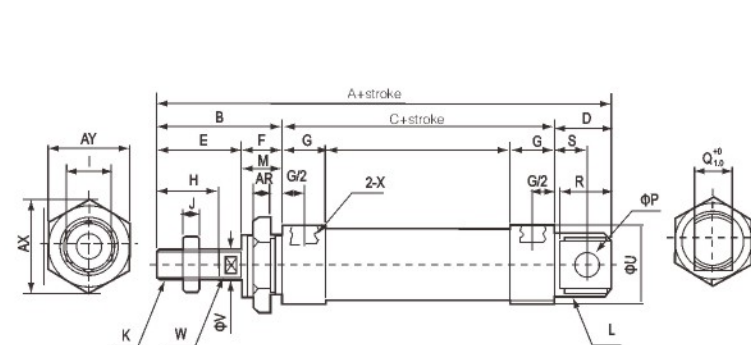
Bore size(mm)	16	20	25	32	40
Acting type	Double acting				
Working Medium	Air(to be filtered by 40 μ m filter element)				
Operating pressure	0.1~0.9MPa(1~9kgf/cm ²)				
Proof pressure	1.35MPa(13.5kgf/cm ²)				
Working Temperature range	-5~60℃(Unfreeze)				
Cushion type	without Cushion				
Port size	M5	1/8 "			
Body material	stainless steel				

Stroke

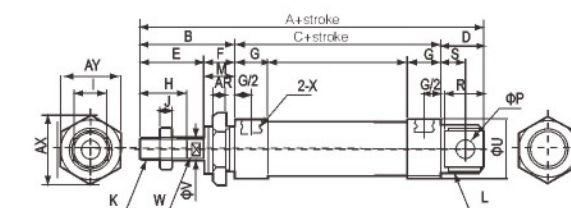
Bore size(mm)	Standard Stroke(mm)	Max std Stroke(mm)	Max Stroke(mm)
16	25 50 75 100 125 150 175 200 250 300	500	800
20	25 50 75 100 125 150 175 200 250 300	500	800
25	25 50 75 100 125 150 175 200 250 300 350 400 500	800	1200
32	25 50 75 100 125 150 175 200 250 300 350 400 500	800	1200
40	25 50 75 100 125 150 175 200 250 300 350 400 500	1200	1500

Dimensions (mm)

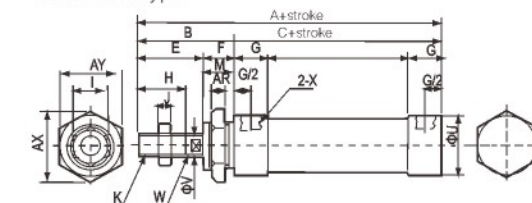
CA:blank: pivot type



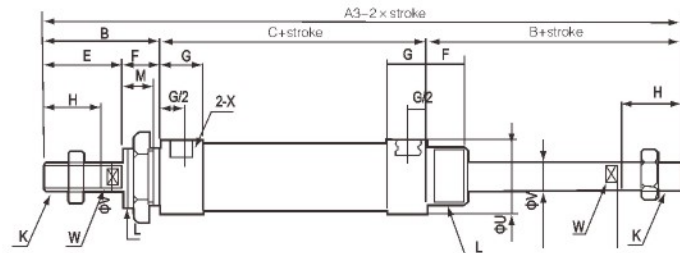
CM:round type



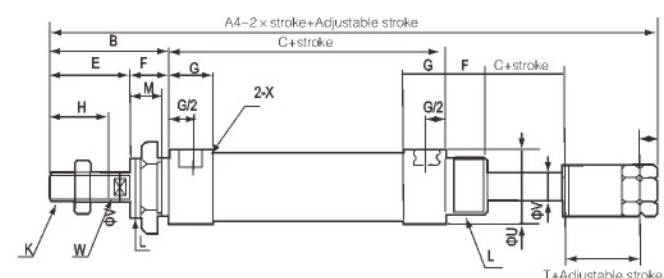
U:flat-end type



MALD:double rod double acting



MALJ:double rod adjustable stroke



bore size(mm)	A	A1	A2	A3	A4	B	C	D	D1	E	F	G	H	I	J
16	107	108	92	131	137	40	51	16	16	24	16	10	16	10	5
20	131	122	110	150	147	40	70	21	12	28	12	16	20	12	5
25	135	128	114	158	154	44	70	21	14	30	14	16	22	17	6
32	141	128	114	158	154	44	70	21	14	30	14	16	22	17	6
40	143	130	116	162	160	46	70	27	14	32	14	16	24	19	7

bore size(mm)	K	L	M	P	Q	R	S	U	V	X	AR	AX	AY
16	M6x1	M16x1.5	14	6	12	16	10	22	6	M5	6	25	22
20	M8x1.25	M22x1.5	10	8	16	19	12	30	8	RC1/8	7	33	29
25	M10x1.25	M22x1.5	12	8	16	19	12	34	10	RC1/8	7	33	29
32	M10x1.25	M24x2.0	12	10	16	25	15	39	12	RC1/8	8	37	32
40	M12x1.25	M30x2.0	12	12	20	25	15	49	16	RC1/4	9	47	41

CM2 Series stainless steel Mini Cylinder



Order Code

Series	CM2	25x50	-	D	-	FA
CM2B:Standard	bore size*stroke			acting type		mounting type
CM2WB:Double rode				D:double acting		blank: basic
CDM2B:with magnet				A:air cushion		FA:front flange type
				S:single acting spring back		FB:back flange type
				T:single acting spring out		LB:foot bracket type

Criteria for selection

type	bore size	16	20	25	32	40
auto switch				CS1-F CS1-U		
auto switch mounting base		MA-16	MA-20	MA-25	MA-32	MA-40

Specification

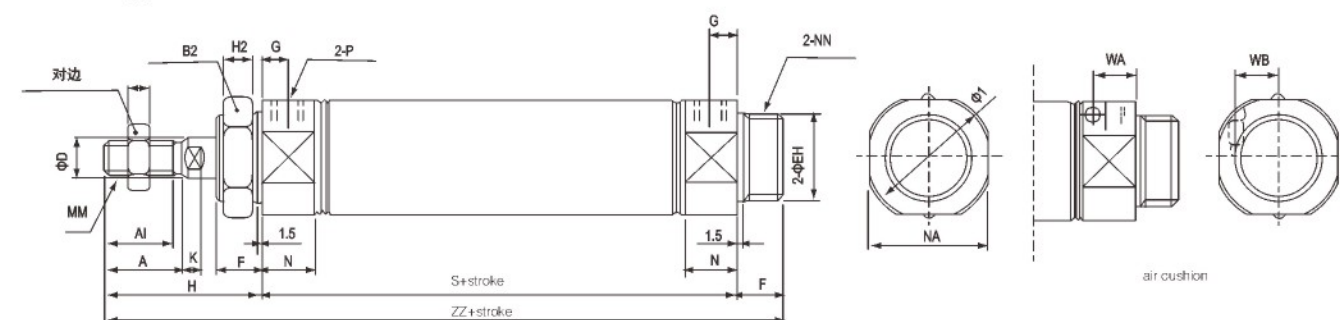
Bore size(mm)	16	20	25	32	40
Acting type	Double acting				
Working Medium	Air(to be filtered by 40 μ m filter element)				
Operating pressure	0.1~0.9MPa(1~9kgf/cm ²)				
Proof pressure	1.35MPa(13.5kgf/cm ²)				
Working Temperature range	-5~60°C(Unfreeze)				
Cushion type	without Cushion				
Port size	M5	1/8 "			1/4 "
Body material	stainless steel				

Stroke

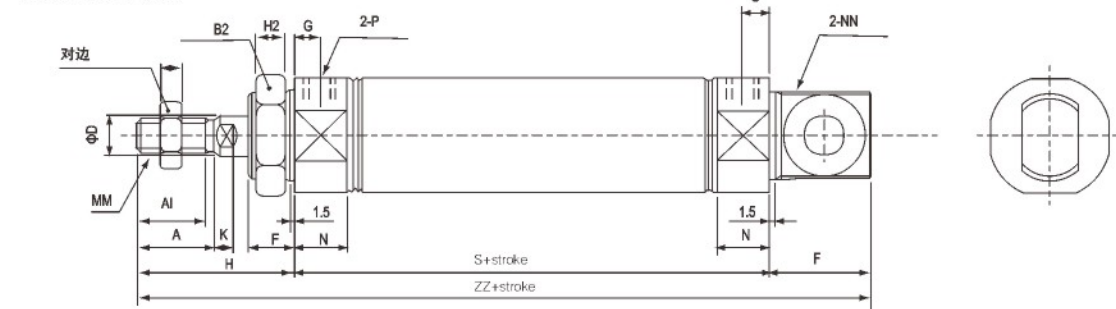
Bore size(mm)	Standard Stroke(mm)	Max std Stroke(mm)	Max Stroke(mm)
16	25 50 75 100 125 150 175 200	300	500
20	25 50 75 100 125 150 175 200	500	1000
25	25 50 75 100 125 150 175 200 250 300	500	1000
32	25 50 75 100 125 150 175 200 250 300	500	1000
40	25 50 75 100 125 150 175 200 250 300	500	1000

Dimensions (mm)

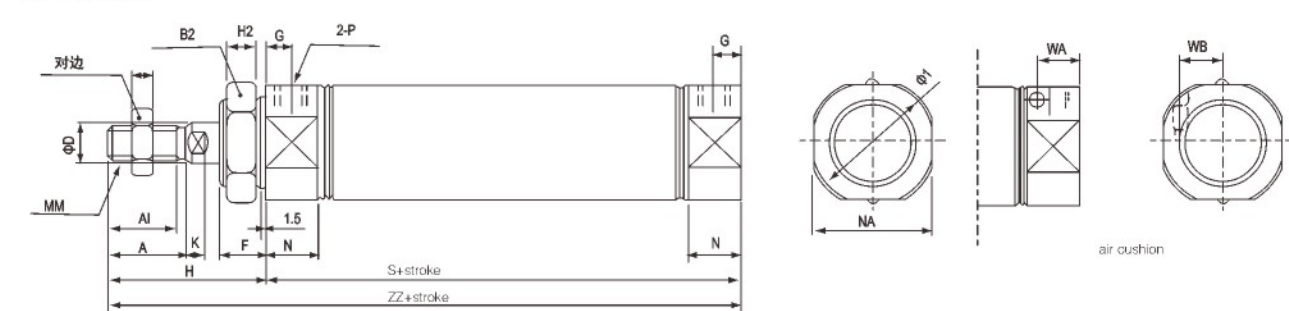
CM:round type



blank: pivot type



flat-end type



bore size(mm)	A	A1	B1	B2	D	E	F	G	H	H1	H2
16	18	15.5	13	26	8	20	13	8	41	5	8
20	18	15.5	13	26	8	20	13	8	41	5	8
25	22	19.5	17	32	10	26	13	8	45	6	8
32	22	19.5	17	32	12	26	13	8	45	6	8
40	24	21	22	41	14	32	16	11	50	8	10

bore size(mm)	K	L	I	K	N	NA	P	S	ZZ	WA	WB
16	M6x1	M20x1.5	28	5	15	24	M5	62	116	11.5	8.5
20	M8x1.25	M20x1.5	28	5	15	24	1/8	62	116	11.5	8.5
25	M10x1.25	M26x1.5	33.5	5.5	15	30	1/8	62	120	11.5	10
32	M10x1.25	M24x1.5	37.5	5.5	15	34.5	1/8	64	122	11.5	11.5
40	M14x1.5	M32x2.0	46.5	7	21.5	42.5	1/4	88	154	14	15

CJ2 Series stainless steel Mini Cylinder



Order Code

CJ2B	25x50	-	D
Series	bore size*stroke		acting type
CJ2B:Standard			D:double acting
CDJ2B:with magnet			S:single acting spring back
CDJ2D:double earing with magnet			T:single acting spring out

Criteria for selection

bore size	6	10	16
type			
auto switch	CS1-F CS1-U		

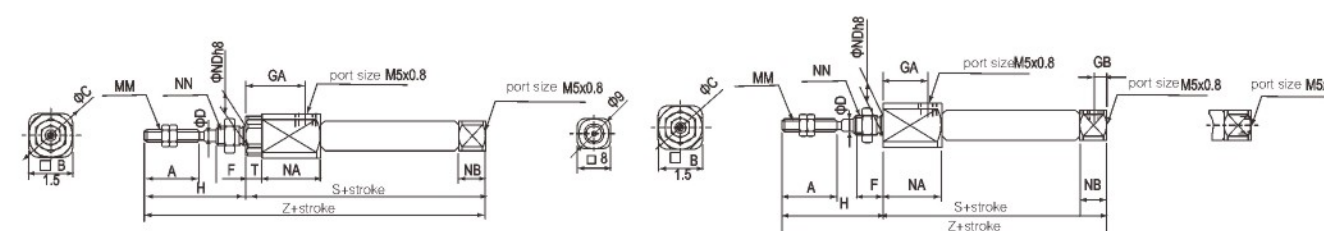
Specification

Bore size(mm)	6	10	16
Acting type	Double acting		
Working Medium	Air(to be filtered by 40 μ m filter element)		
Operating pressure	0.1~0.7MPa(1~7kgf/cm ²)		
Proof pressure	1.05MPa(10.5kgf/cm ²)		
Working Temperature	-5~60℃(Unfreeze)		
Cushion type	without Cushion		
Port size	M5		
Body material	stainless steel		

Stroke

Bore size(mm)	Standard Stroke(mm)
6	15 20 25 30 35 40 45 50 55 60
10	15 20 25 30 35 40 45 50 55 60
16	15 20 25 30 35 410 45 50 55 60 75 100 125

Dimensions (mm)



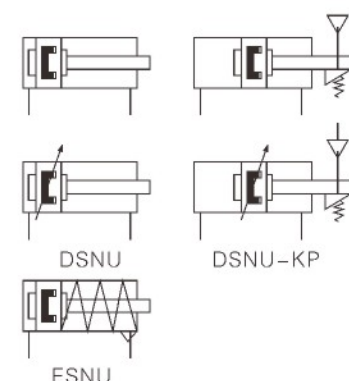
Bore size(mm)	A	B	C	D	F	GA	GB	H	MM	NA	NB	ND h8	MM	S	T	Z
6	15	12	14	3	8	14.5		28	M3x0.5	16	7	6	M6x1.0	49	3	77
10	15	12	14	4	8	8	5	28	M4x0.7	12.5	9.5	8	M8x1.0	46		74
16	15	18	20	5	8	8	5	28	M5x0.8	12.5	9.5	10	M10x1.0	47		75

DSN series round cylinder



Good running performance and long service life
Wide range of variants for customised applications
Extensive range of accessories makes it possible to install the cylinder virtually anywhere

Symbol



Order Code

DSNU	32	50	PPV	A		KP	S6
Double Acting Round Cylinder	Bore Size 32,40,50,63	Stroke 25,40,50,80, 100,125,160, 200,250,320	Position Sensing A For proximity sensing ①	Cylinder Cover Option MQ common end cover, Lateral supply port ②		Clamping Unit KP With clamping unit ③	Temperature resistance S6 Heat-resistant seals, Temperature resistance up to max. 120°C
		Cushioning Type P spring cushioning at both ends PPV adjustable cushioning at both ends PPS self-adjusting cushioning at both ends			Piston Rod Type - one end piston rod S2 both ends piston rod		

- 1)Mini. Stroke is 10mm
2)not suit for piston rod S2 cylinders
3)suit for the cylinders With clamping unit (kP)

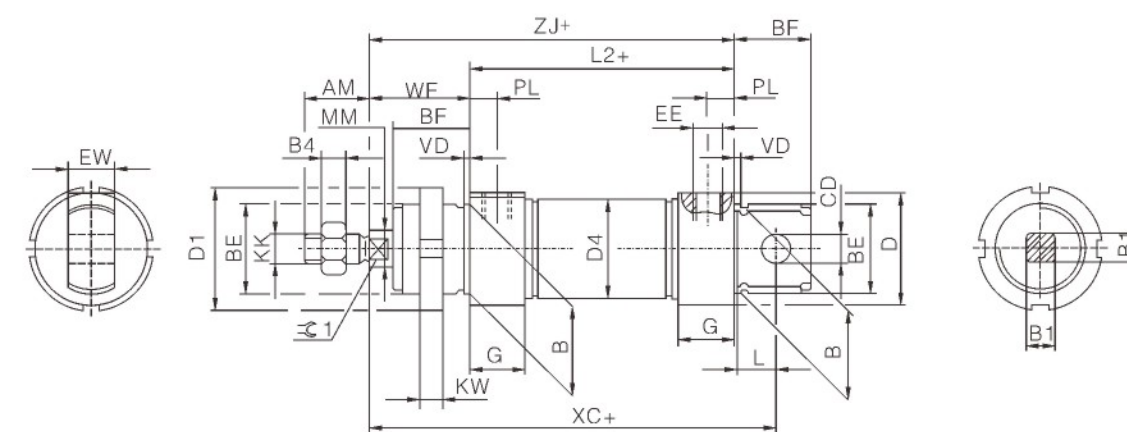
Specification

Bore size(mm)		16	20	25	32
Port Size		G1/8	G1/4	G1/4	G3/8
Gripping Holder Port Size		M5	G1/8	G1/8	G1/8
Piston Rod End		female thread			
Piston Rod Thread		M10×1.25	M12×1.25	M16×1.5	M16×1.5
Cushioning Type	P	spring cushioning at both ends			
	PPV	adjustable cushioning at both ends			
	PPS	self-adjusting cushioning at both ends			
Cushioning Length(mm)	PPV	14	18	20	21
	PPS	14	18	20	21
Theoretical force at 6 bar, advancing(N)		483	753	1178	1870
Theoretical force at 6 bar, retracting(N)		415	633	990	1682
piston rod Max. Torsion (Nm)		0.8	1.1	1.5	1.5
material		End Cover:wrought Aluminium Alloy Piston Rod:high-alloy Stainless Steel Cylinder Barrel:high-alloy Stainless Steel Seals:polyurethane, Nbr Spring:spring Steel			
		DSNU,basic type,variant type		DSNU,S6	DSNU—...—KP
Working Pressure		1...10			3...10
Ambient temperature		-20...+80		0...+120	-10...+80

Dimensions (mm)

Basic Type

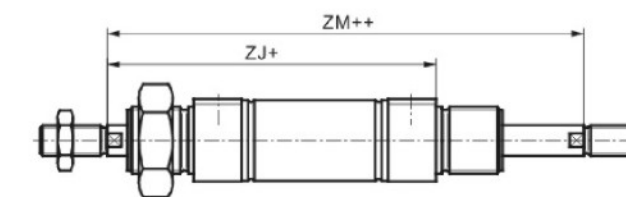
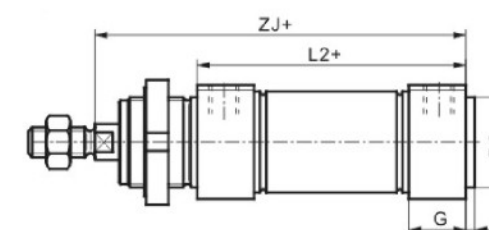
Q-square Piston Rod



+= Add Stroke Length

Mq-lateral Supply Port

S2-both Ends Piston Rod



+= add stroke length
++= add twice stroke length

Both ends of the piston rod have the same thread structure. When combined with the variant type Q, the piston rod on the left side is square and the piston rod on the right side is round.

Φ (mm)	AM	B Φ h9	B1 □	BE	BF	CD Φ E10	D Φ	D1 Φ	D4 Φ	EE	EW	G
32	22	30	10	M30 × 1.5	26	10	38	42	33.6	G1/8	16	19
40	24	38	12	M38 × 1.5	30	12	46	50	41.6	G1/4	18	25
50	32	45	16	M45 × 1.5	33	16	57	60	52.4		21	28
63							70		65.4	G3/8		

Φ(mm)	KK	KW	L	L2	MmΦ	PL	VD	WF	XC ±1	ZJ	ZM	允差
32	M10×1.25	8	13	69.5	12	9	2	34	117.5	103.5	137.5	10
40	M12×1.25	10	15	84.6	16	12	3	39	139.6	123.6	162.6	13
50	M16×1.5		16	86.2	20			44	147.2	130.2	174.2	17
63				94.2				45	156.2	139.2	184.2	

TN Series double rod Cylinder

Order Code



TN - 25x20
Series bore size X stroke

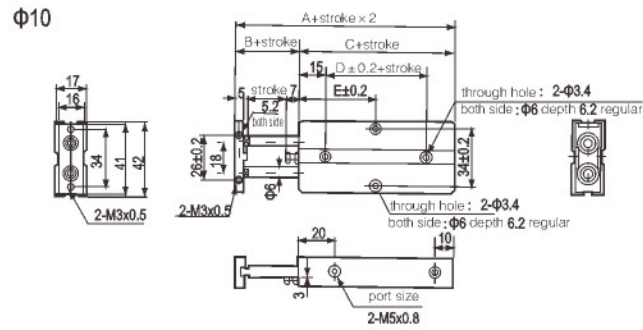
Specification

Bore size(mm)	10	16	20	25	32
Acting type	Double acting				
Working Medium	Air(to be filtered by 40 μ m filter element)				
Operating pressure	0.1~0.9MPa(1~9kgf/cm ²)				
Proof pressure	1.35MPa(13.5kgf/cm ²)				
Working Temperature	-5~60℃(Unfreeze)				
Cushion type	bumper				
Port size	M5x0.8				G1/8"
Body material	Aluminum alloy				

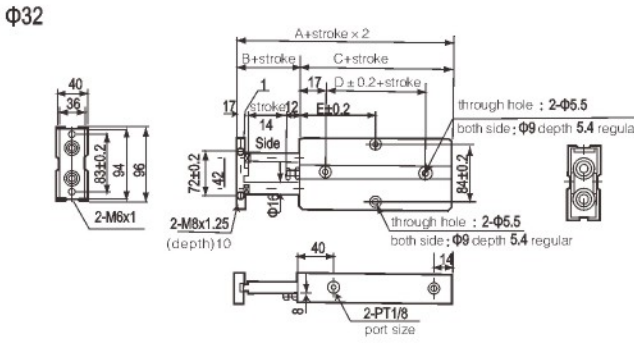
criteria for selection

Bore size(mm)	Standard Stroke(mm)	Tolerate Stoke(mm)	Max. Stroke(mm)	Sensor Switch
10	10 20 30 40 50 60 70	70	100	CS1-G
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	

Dimensions (mm)

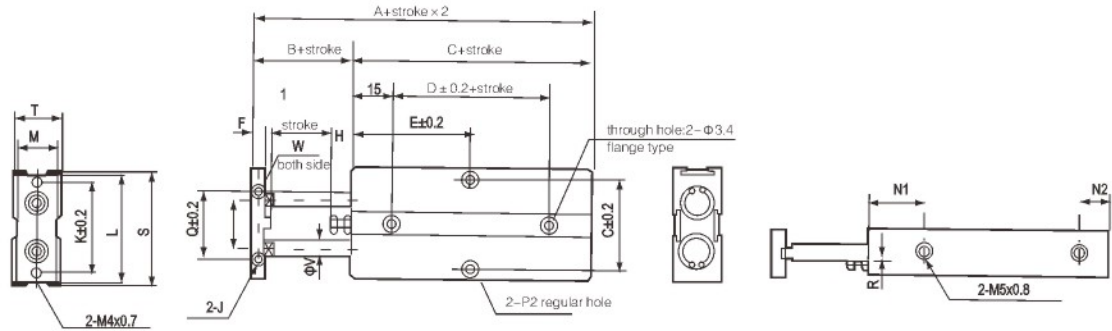


Bore size (mm)	A	B	C	D	stroke	10	20	30	40	50	60	70
10	58	12	46	10	E	30	30	35	40	45	50	55



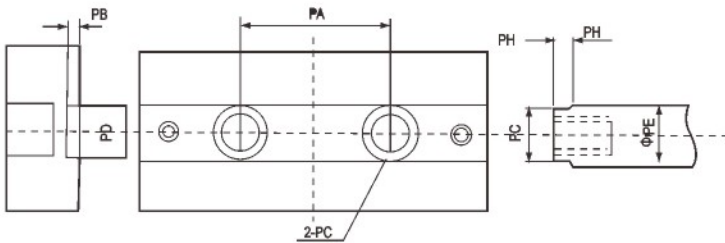
Bore size (mm)	A	B	C	D	stroke	10	20	30	40	50	60	70	80	90	100	125	150	175
10	108	30	78	35	E	45	50	55	60	65	70	75	80	85	95	102.5	115	122.5

Φ 16 Φ 25Bore size



Bore size(mm)	A	B	C	D	stroke	10	20	30	40	50	60	70	80	90	100	125	150	F	G	H	I
16	68	15	53	20	E	30	35	40	45	50	55	60	65	70	75	87.5	100	8	47	6	6
20	78	20	58	20	E	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	9	9
25	81	19	62	30	E	40	40	45	50	55	60	65	70	75	80	92.5	100	10	66	8	8

Bore size(mm)	J	K	L	M	N1	N2	P1	P2	Q	R	S	T	V	W
16	M4 x 0.7depth5	47	53	20	22	10	both side: Φ7.5depth7.2mm through hole Φ4.5	both side: Φ8depth4.4mm through hole Φ4.5	34	4	54	21	8	6.2
20	M4 x 0.7depth5	55	61	24	25	12	both side: Φ7.5depth7.2mm through hole Φ4.5	both side: Φ8depth4.4mm through hole Φ4.5	44	6	62	25	10	8.2
25	M4 x 0.7depth5	66	72	29	30	12	both side: Φ7.5depth7.2mm through hole Φ4.5	both side: Φ8depth4.4mm through hole Φ4.5	56	7	73	30	12	10.2



Bore size(mm)	PA	PB	PC	PD	PE	PF	PG	PH
10	18	0.5	Φ6.2depth3.5mm through hole Φ3.5	5.2	6	3	5.2	M3x0.5 depth 5mm
16	24	1	Φ7.8depth4.6mm through hole Φ4.5	6.2	8	3	6.2	M4x0.7 depth 6mm
20	28	1	Φ11depth6.8mm through hole Φ6.5	8.2	10	3	8.2	M6x1 depth 8mm
25	34	1	Φ11depth6.8mm through hole Φ6.5	10.5	12	3	10.5	M6x1 depth 8mm
32	42	2	Φ17depth12mm through hole Φ10.5	14	16	3	14	M10x1.5 depth 1mm

CXS Series Twin Rods Cylinder



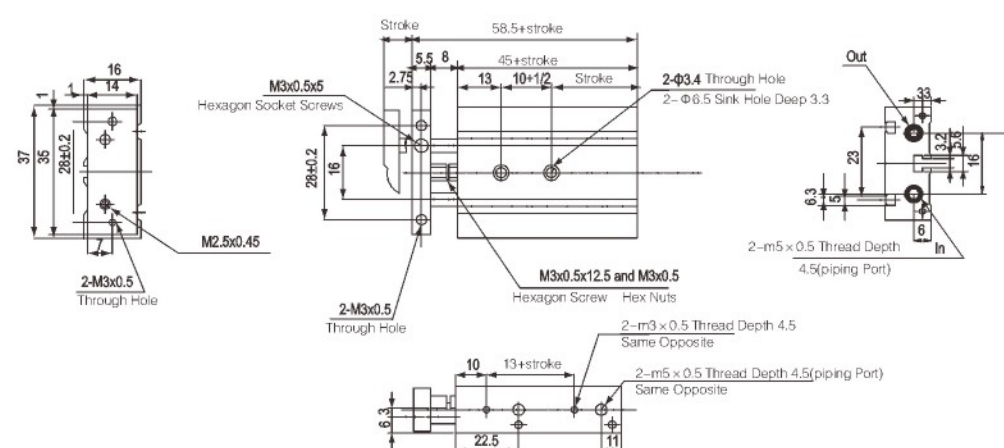
Order Code

CXSL - 25x20
Series Bore Size*stroke
M:sliding Bearing
L:ball Bearing

Specification

Bore Size(mm)	6	10	16	20	25	32
Acting Type	Double Acting					
Working Medium	Air(to Be Filtered By 40 μ m Filter Element)					
Max Working Pressure	0.7MPa					
Min Working Pressure	0.15MPa	0.1MPa			0.05MPa	
Piston Speed	30~300	30~800	30~700		30~600	
Ambient And Working Medium Temperature	-5~60℃(unfreeze)					
Cushion	Both Ends With Rubber Cushion					
Structure	Double Cylinder					
Lubrication	Not Required					
Range Of Stroke Adjustment	0~5mm					
Bearing	Sliding Oil/ball Bearing					
Piston Rod Non-rotation Accuracy	± 0.1°					
Port Size	M5x0.8				1/8"	
Body Material	Aluminum Alloy					

Dimensions (mm)



Model	Stroke	10+1/2stroke	13stroke	45+stroke	58.5+stroke
CXS□6-10	10	15	23	55	68.5
CXS□6-22	20	20	33	65	78.5
CXS□6-30	30	25	43	75	88.5
CXS□6-40	40	30	53	85	98.5
CXS□6-50	50	35	63	95	108.5

CU Series Free Mount Cylinder

Order Code



C	D	U	K	6	☐	-	30	D	-	A93	☐
Magnet						Stroke					Number Of Magnetic Switch
Blank	Without Magnet		Port Thread Type							Blank	2pcs
D	With Magnet		Sign	Type	Bore Size					S	1pcs
			Blank	M Thread	φ 6~φ 25						
				Rc							
			TN	NPT	φ 32						
			TF	G							
			Bore Size							Magnetic Switch Type	
			6	φ 6mm						Blank	Without Magnetic Switch
			10	φ 10mm							
			16	φ 16mm							
			20	φ 20mm							
			25	φ 25mm							
			32	φ 32mm							
						Acting Type					
						D	Double Acting				
						S	Single Acting Spring Back				
						T	Single Acting Spring Out				
										</	

Specification

Bore Size(mm)			6	10	16	20	25	32
Working Medium			Air					
Acting Type			Double Acting Single Acting Spring Back Spring Out					
Max Working Pressure			0.7MPa					
Min Working Pressure MPa	Double	Single Acting	0.12	0.06		0.05		
		Double Rod Non Return Air Cushion	0.15	0.10		0.08		
		Double Rod Non Return	0.18	0.13		0.11		
	Acting	Standard	0.20	0.15		0.13		
		Non Return	0.23	0.18		0.16		
Ambient And Working Medium Temperature			Without Magnetic Switch: -10℃~60℃,with Magnetic Switch: -10℃~70℃					
Cushion			Both Ends With Rubber Cushion					
Operating Speed Mm/s			50~500mm/s					
Stroke Tolerance Mm			+0.10 0					
Lubrication*			Not Required					
Mount Type			Free Mount (multi-sided Installation)					
Rod Non-rotation Accuracy			± 0.8°			± 0.5°		
Port Size			M5x0.8					1/8

*For Oil, Please Use Turbine No. 1 Oil Isovg32

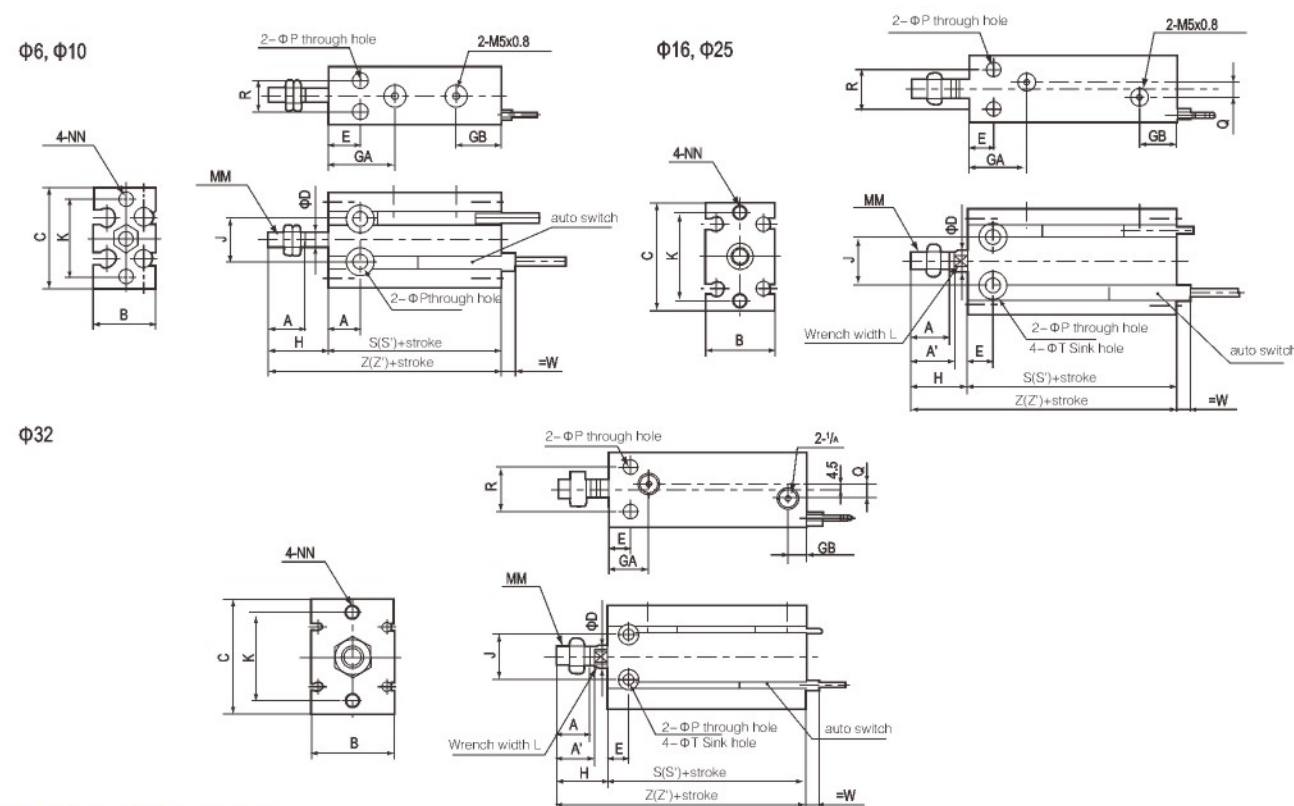
Please Refer To Table Of Stroke/magnetic Switch

Bore Size(mm)	Standard Stroke(mm)		Long Stroke (double Acting)	Magnetic Switch Type(mm) Direct Installation				
	Double Acting	Single Acting						
6	5,10,15,20,25,30	5,10,15	40,50,60	A93,A96,M9N, M9B,M9P,F9NW				
10								
16			60,70,80,90,100					
20	5,10,15,20,25, 30,40,50							
25								
32								

*Please Refer To Table Of Stroke/magnetic Switch

Wire Length Mark: No Mark- 0.5m, L - 3m, Z - 5m For Example M9N, M9NL.

Dimensions (mm)



Common Size Table

Model	A	A'	B	C	ΦD	E	GA	GB	J	K	L	MM	NN	ΦP	Q	R	ΦT
C□U6	7	-	13	22	3	7	15	10	10	17	-	M3x0.5	M3x0.5 depth 5	3.2	-	7	6 depth 4.8
C□U10	10	-	15	24	4	7	16.5	10	11	18	-	M4x0.7	M3x0.5 depth 5	3.2	-	9	6 depth 5
C□U16	11	12.5	20	32	6	7	16.5	11.5	14	25	5	M5x0.8	M4x0.7 depth 6	4.5	4	12	7.6 depth 6.5
C□U20	12	14	26	40	8	9	19	12.5	16	30	6	M6x1.0	M5x0.8 depth 8	5.5	9	16	9.3 depth 8
C□U25	15.5	18	32	50	10	10	21.5	13	20	38	8	M8x1.25	M5x0.8 depth 8	5.5	9	20	9.3 depth 9
C□U32	19.5	22	40	62	12	11	23	13	24	48	10	M10x1.25	M6x1.0 depth 9	6.6	13.5	24	11 depth 11.5

Double Acting Size Table

Model	H	Standard Type		With Magnet Type		
		S	Z	W	S'	Z'
C□U6-□D	13	33	46	2.5	33	46
C□U10-□D	16	36	52	1	36	52
C□U16-□D	16	30	46	0	40	56
C□U20-□D	19	36	55	1	46	65
C□U25-□D	23	40	63	-1	50	73
C□U32-□D	27	42	69	-4	52	79

Single Acting Spring Back Size Table

model	H	Standard Type						With Magnet Type					
		S			Z			S'			Z'		
		5st	10st	15st	5st	10st	15st	5st	10st	15st	5st	10st	15st
C□U6-□S	13	38	38	48	51	56	61	2.5	38	43	48	51	56
C□U10-□S	16	41	41	56	57	62	72	1	41	46	56	57	62
C□U16-□S	16	35	35	50	51	56	66	0	45	50	60	61	66
C□U20-□S	19	41	41	56	60	65	75	1	51	56	66	70	75
C□U25-□S	23	45	45	60	68	73	83	-1	55	60	70	78	83
C□U32-□S	27	47	47	62	74	79	89	-4	57	62	72	84	89

Single Acting Spring Out Size Table

Model	H			Standard Type						With Magnet Type					
				S			Z			W	S'			Z'	
	5st	10st	15st	5st	10st	15st	5st	10st	15st		5st	10st	15st	5st	10st
C□U6-□T	18	23	28	38	43	48	56	66	76	2.5	38	43	48	56	66
C□U10-□T	21	26	31	41	46	56	62	72	87	1	41	46	56	62	72
C□U16-□T	21	26	31	45	50	60	66	76	91	0	45	50	60	66	76
C□U20-□T	24	29	34	41	46	56	65	75	90	1	51	56	66	75	85
C□U25-□T	28	33	38	45	50	60	73	83	98	-1	55	60	70	83	93
C□U32-□T	32	37	42	47	52	62	79	89	104	-4	57	62	72	89	99

MGP Series Compact Guide Cylinder



Order Code

MPG	M	-	25x300
Series	M:Sliding bearing L:ball bearing		bore size*stroke

Magnetic switch options

Bore size	12	16	20	25	32	40	50	63	80	100
Type										
Auto switch										

Specification

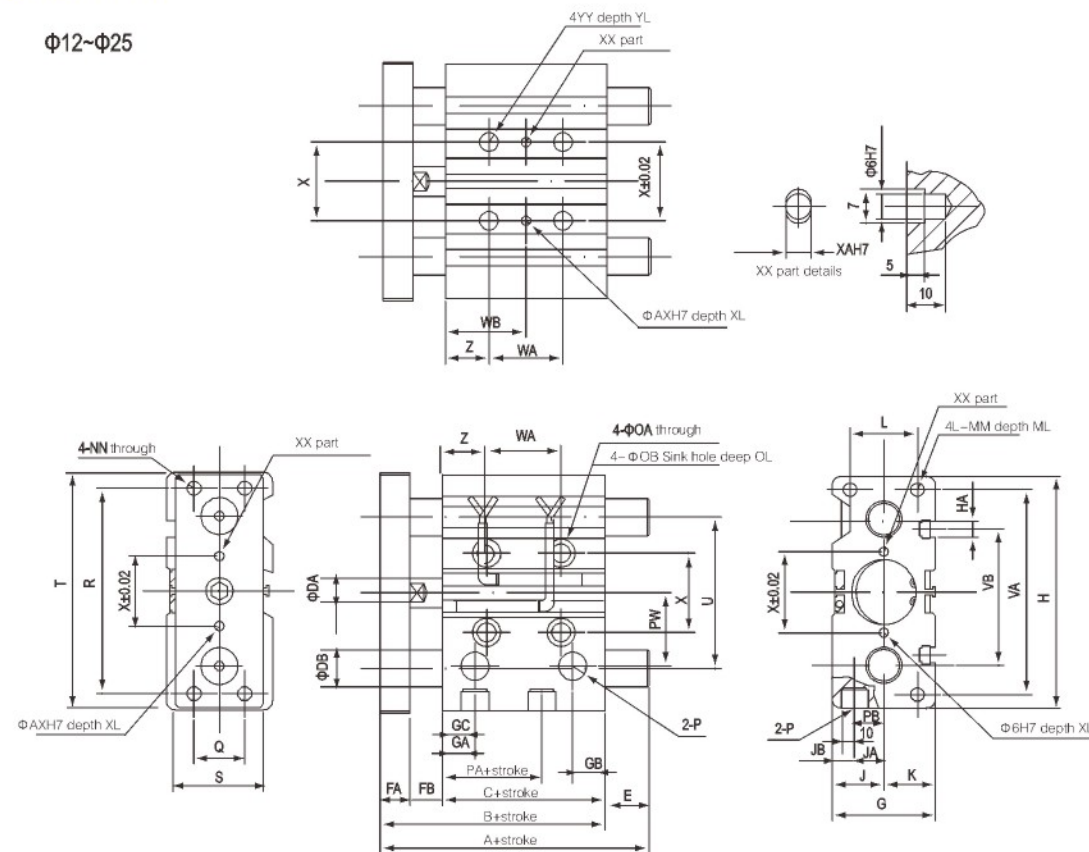
Bore size(mm)	12	16	20	25	32	40	50	63	80	100
Working Medium	Air(to be filtered by 40 μ m filter element)									
Acting type	double acting									
Max working pressure	1.0MPa									
Min working pressure	0.12 MPa									
Ambient and Working Medium temperature	-5~60°C(Unfreeze)									
Operating speed mm/s	50-1000mm/s									
Cushion	Both Ends With Rubber Cushion									
Stroke tolerance mm	0±1.5									
Lubrication*	Not Required									
bearing	Sliding oil/ball bearing									
Rod Non-rotation Accuracy	Sliding bearing	± 0.08°	± 0.07°	± 0.06°	± 0.05°	± 0.05°				
	Ball Bearing	± 0.10°	± 0.09°	± 0.08°	± 0.06°	± 0.06°				
Port size	M5x0.8									
Body Material	Aluminum alloy									

Stroke

Bore size(mm)	Standard Stroke(mm)
12	10 20 30 40 50 100
16	10 20 30 40 50 100 125 150 175 200
20	20 30 40 50 75 125 150 175 200 250 300
25	20 30 40 50 75 125 150 175 200 250 300
32	25 50 75 100 125 150 175 200 250 300
40	25 50 75 100 125 150 175 200 250 300
50	25 50 75 100 125 150 175 200 250 300
63	25 50 75 100 125 150 175 200 250 300
80	25 50 75 100 125 150 175 200 250 300 350 400
100	25 50 75 100 125 150 175 200 250 300 350 400

Dimensions (mm)

Φ12~Φ25



MGPM, MGPL Common size

Bore Size(mm)	Stroke(mm)	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NM	OA	OB	OL	P	PA	PB	PW
12	10,20,30,40,50,75,100,125	42	29	6	8	5	26	11	7.5	58	M4	13	13	18	M4x0.7	10	M4x0.7	4.3	8	4.5	M5x0.8	13	8	18
16	150,175,200,250	46	33	8	8	5	30	11	8	65	M4	15	15	22	M5x0.8	12	M5x0.8	4.3	8	4.5	M5x0.8	15	10	19
20	20,30,40,50,75,100,125,150	53	37	10	10	6	36	10.5	8.5	83	M5	18	18	24	M5x0.8	13	M5x0.8	5.6	9.5	5.5	1/8	12.5	10.5	25
25	175,200,250,300,350,400	53.5	37.5	12	10	6	42	11.5	9	93	M5	21	21	30	M6x1.0	15	M6x1.0	5.6	9.5	5.5	1/8	12.5	13.5	28.5

Bore Size(mm)	R	S	T	U	VA	VB	WA					WB					X	XA	XB	XC	XL	YY	YL	Z
							30st or less	30st~ 100st	100st~ 200st	200st~ 300st	over 300st	30st or less	30st~ 100st	100st~ 200st	200st~ 300st	over 300st								
12	48	22	56	41	50	37	20	40	110	200	-	15	25	60	105	-	23	3	3.5	3	6	M5x0.8	10	5
16	54	25	62	46	56	38	24	44	110	200	-	17	27	60	105	-	27	3	3.5	3	6	M5x0.8	10	5
20	70	30	81	54	72	44	24	44	120	200	300	29	39	77	117	167	28	3	3.5	3	6	M6x1.0	12	17
25	78	38	91	64	82	55	24	44	120	200	300	29	39	77	117	167	34	4	4.5	3	6	M6x1.0	12	17

MGPM(Sliding bearing)A,DB,E

Bore Size(mm)	A			DB	E		
	50st~ or less	50st~ 100st	over 100st		50st~ or less	50st~ 100st	over 100st
12	42	60.5	60.5	8	0	18.5	43
16	46	64.5	64.5	10	0	18.5	49

MGPM(Sliding bearing)A,DB,E

Bore Size(mm)	A			DB	E		
	50st~ or less	50st~ 100st	over 100st		50st~ or less	50st~ 100st	over 100st
12	53	84.5	122	12	0	31.5	69
16	53.5	85	122	16	0	31.5	68.5

MGPL(ball bearing)A,DB,E

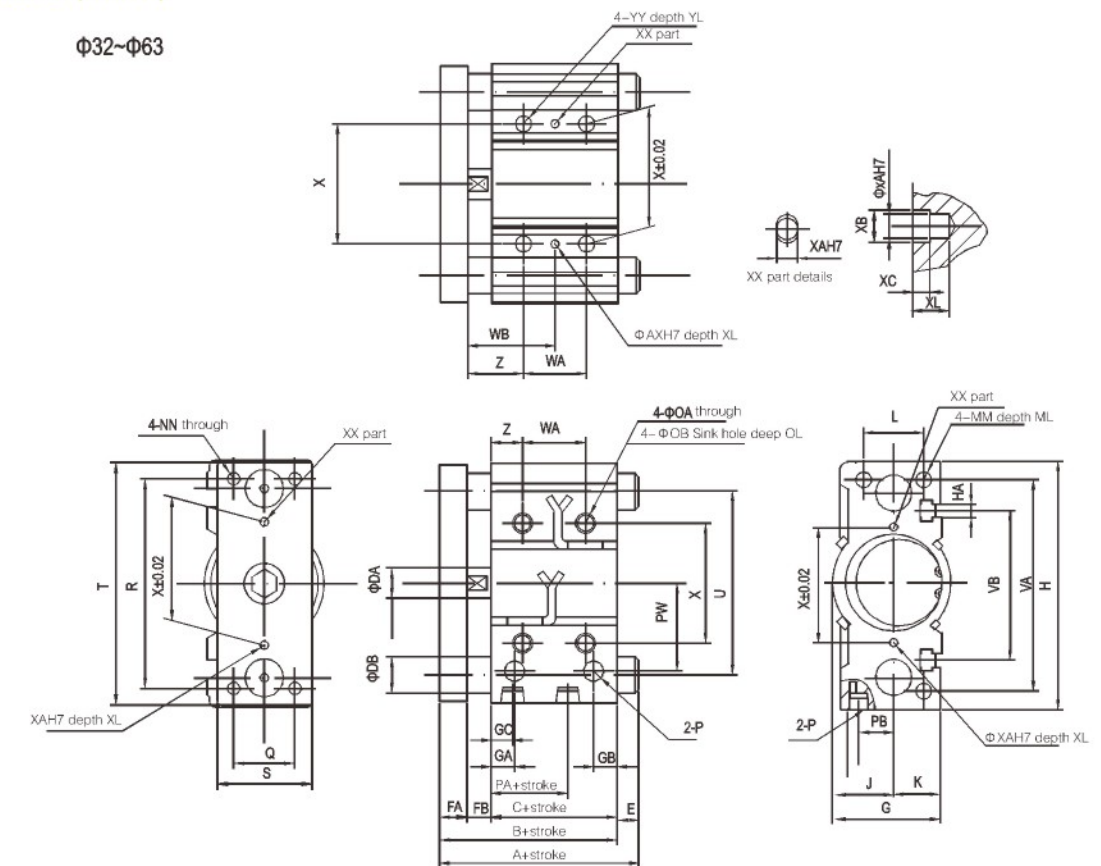
Bore Size(mm)	A			DB	E		
	50st~ or less	50st~ 100st	over 100st		50st~ or less	50st~ 100st	over 100st
12	43	55	85	6	1	13	43
16	49	65	95	8	3	19	49

MGPL(ball bearing)A,DB,E

Bore Size(mm)	A			DB	E		
	30st~ or less	30st~ 100st	over 100st		30st~ or less	30st~ 100st	over 100st
12	63	80	104	10	10	27	51
16	69.5	85.5	104.5	13	10	32	51

Dimensions (mm)

Φ32~Φ63



MGPM, MGPL Common size

Bore Size(mm)	Stroke(mm)	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NM	OA	OB	OL	P	PA	PB	PW	Q
32	10,20,30,40,50,75,100,125	59.5	37.5	16	12	10	48	12.5	9	112	M6	24	24	34	M8x1.25	20	M8x1.25	6.6	11	7.5	1/8	7	15	34	30
40	150,175,200,250	66	44	16	12	10	54	14	10	120	M6	27	27	40	M8x1.25	20	M8x1.25	6.6	11	7.5	1/8	13	18	38	30
50	20,30,40,50,75,100,125,150	72	44	20	16	12	64	14	11	148	M8	32	32	46	M10x1.5	22	M10x1.5	8.6	14	9	1/4	9	21.5	47	40
63	175,200,250,300,350,400	77	49	20	16	12	78	16.5	13.5	162	M10	39	39	58	M10x1.5	22	M10x1.5	8.6	14	9	1/4	14	28	55	50

Bore Size(mm)	R	S	T	U	VA	VB	WA					WB					X	XA	XB	XC	XL	YY	YL	Z
							30st or less	30st~ 100st	100st~ 200st	200st~ 300st	over 300st	30st or less	30st~ 100st	100st~ 200st	200st~ 300st	over 300st								
32	96	44	110	78	98	63	24	48	124	200	300	33	45	83	121	171	42	4	4.5	3	6	M8x1.25	16	21
40	104	44	118	86	106	72	24	48	124	200	300	34	46	84	122	172	50	4	4.5	3	6	M8x1.25	16	22
50	130	60	146	110	130	92	24	48	124	200	300	36	48	86	124	174	66	5	6	4	8	M10x1.5	20	24
63	130	70	158	124	142	110	28	52	128	200	300	38	50	88	124	174	80	5	6	4	8	M10x1.5	20	24

MGPM(Sliding bearing)A,DB,E

Bore Size(mm)	A			DB	E		
	50st~ or less	50st~ 100st	over 100st		50st~ or less	50st~ 100st	over 100st
32	97	102	140	20	37.5	42.5	80.5
40	97	102	140	20	31	36	71
60	106.5	118	161	25	34.5	46	89
63	106.5	118	161	25	29.5	41	84

MGPL(ball bearing)A,DB,E

Bore Size(mm)	A			DB	E		
	50st~ or less	50st~ 100st	over 100st		50st~ or less	50st~ 100st	over 100st
32	81	98	118	16	21.5	38.5	58.5
40	81	98	118	16	15	27	52
50	93	114	134	20	21	42	52
63	93	114	134	20	16	76	57

MHZ2 Series Style Air Gripper



MHZ2-25D

Ordering Code

MHZ

2

16

D

1

Model

MHZ: Parallel fingers
MHZL: Long stroke fingerFinger Quantity
2PCSBore Size
6mm~40mmAction Type
D: Double Action
S: Single Action (Normally open)
C: Single-Action (Normally closed)

Claw Form

Blank: Standard Basic Type
1: Side screw installation
2: Opening and closing direction through-hole installation
N: Narrow basic type
N1: Side screw hole installation
N2: Opening and closing direction through hole installation

Graphic Symbol



Double-acting internal grip



Double-acting External grip



Single acting normally closed Internal grip



Single acting normally closed External grip

Specification

Bore(mm)		6	10	16	20	25	32	40	
Working Medium		Air (to be filtered by 40 μm filter element)							
Operating pressure	Double-action	0.15~0.7	0.2~0.7	0.1~0.7			0.1~0.7		
	Single-action	0.3~0.7	0.35~0.7	0.25~0.7			0.25~0.7		
Ambient fluid temperature				-10~60℃					
Repeatability(mm)		±0.01					±0.02		
The highest frequency of use			180(XHZL Series 120)(c.p.m)					60(c.p.m)	
Lubrication		Not required							
Action type		Double acting·Single acting							
Auto switch(optional)		Solid state auto switch							
Port size		M3×0.5			M5×0.8				

Gripping force

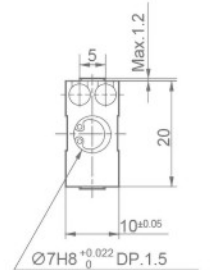
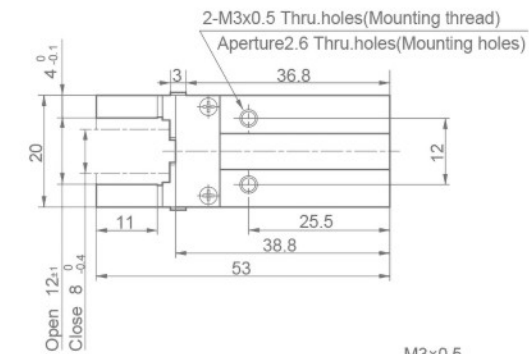
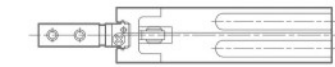
Model	Gripping force N				Opening/Closing (Both sides)mm
	RMS each finger gripping force				
	Double-acting		Single acting	Single acting	
	External	Internal	External	Internal	
MHZ2 -6□	3.3	6.1	1.9	3.7	4
MHZ2 -10□	11	17	7.1	13	4
MHZ2 -16□	34	45	27	38	6
MHZ2 -20□	42	66	33	57	10
MHZ2 -25□	65	104	45	83	14
MHZ2 -32□	158	193	131	161	22
MHZ2 -40□	254	318	217	267	30

Model	Gripping force N				Opening/ Closing (Both sides)mm
	RMS each finger gripping force				
	Double-acting		Single acting	Single acting	
	External	Internal	External	Internal	
MHZ2L-10□	11	17	7.1	13	8
MHZ2L-16□	34	45	27	38	12
MHZ2L-20□	42	66	33	57	18
MHZ2L-25□	65	104	50	85	22

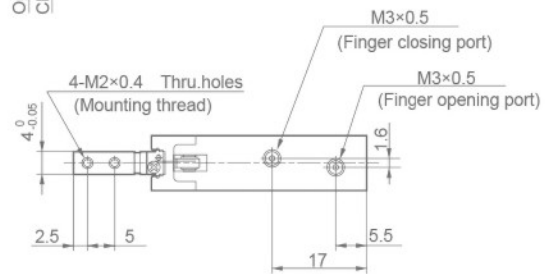
□ = Express D=Double-acting S=Single acting(normally closed) C=Single acting(normally open)

MHZ2 Series Style Air Gripper

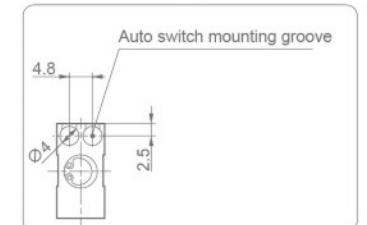
Overall Dimensions



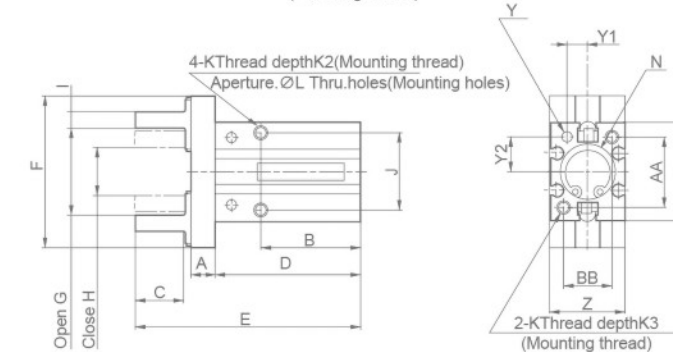
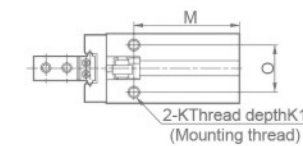
MHZ2-6 □ (Φ6)

Double acting
Single acting

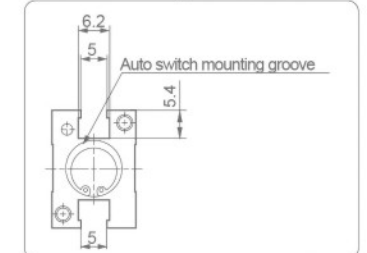
Auto switch mounting groove dimensions



For single acting, the port on one side will turn into breathing hole.

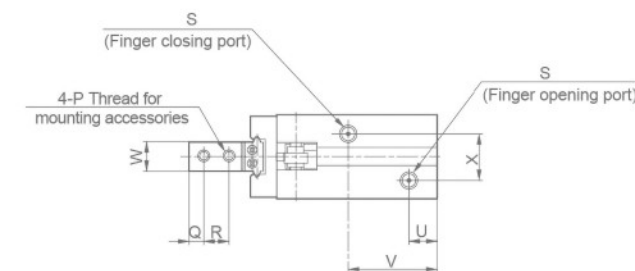


XHZ-10□ Auto Switch Mounting Groove Dimensions

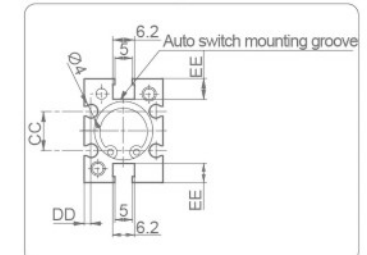


Note) Through-hole mounting is not possible when using the auto switch at the square groove.

MHZ2-□□ (Φ10~Φ40)

Double acting
Single acting

XHZ-□□ Auto Switch Mounting Groove Dimensions



Note) Through-hole mounting is not possible when using the auto switch at the square groove.

For single acting, the port on one side will turn into breathing hole.

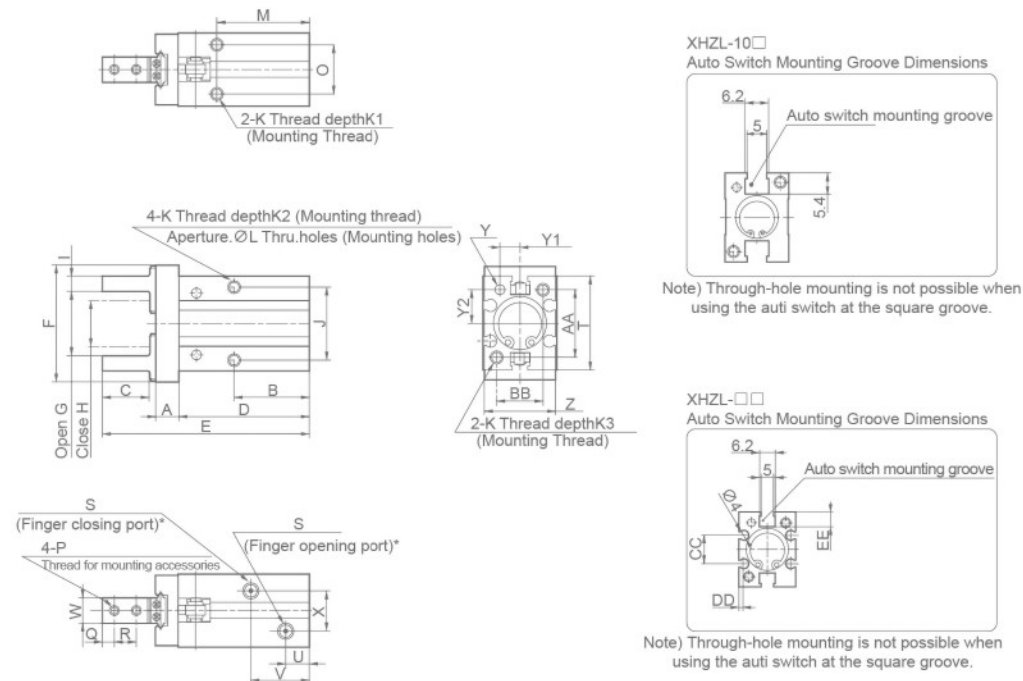
MHZ2 Series Style Air Gripper

Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N		O	P	Q
10	6	23	12	37.8	57	29	15.2 ^{+2.2} ₀	11.2 ⁰ _{-0.7}	4 ⁰ _{-0.1}	16	M3×0.5	6	5.5	6	2.6	27	Φ11H9 ^{+0.043} ₀	Dp:2	11.4	M2.5×0.45	3
16	7.5	24.5	15	42.5	67.3	38	20.9 ^{+2.2} _{0.2}	14.9 ⁰ _{-0.7}	5 ⁰ _{-0.1}	24	M4×0.7	4.5	8	8	3.4	30	Φ17H9 ^{+0.043} ₀	Dp:2	16	M3×0.5	4
20	9.5	29	20	52.8	84.8	50	26.3 ^{+2.2} _{0.2}	16.3 ⁰ _{-0.7}	8 ⁰ _{-0.1}	30	M5×0.8	8	10	10	4.3	35	Φ21H9 ^{+0.052} ₀	Dp:3	18.6	M4×0.7	5
25	11	30	25	63.6	102.7	63	33.3 ^{+2.5} _{0.2}	19.3 ⁰ _{-0.8}	10 ⁰ _{-0.1}	36	M6×1	10	12	12	5.1	36.5	Φ26H9 ^{+0.052} ₀	Dp:3.5	22	M5×0.8	6
32	12	40(49)	29	67(76)	113(122)	97	48 ^{+2.5} ₀	26 ⁰ _{-0.5}	12 ⁰ _{-0.1}	46	M6×1	10	13	13	5.1	48(57)	Φ34H9 ^{+0.062} ₀	Dp:4	26	M6×1	7
40	15	49(62)	36	83(96)	139(152)	119	60 ^{+2.7} ₀	30 ⁰ _{-0.5}	14 ⁰ _{-0.1}	56	M8×1.25	13	16	17	6.6	58(71)	Φ42H9 ^{+0.062} ₀	Dp:4	32	M8×1.25	9

Bore(mm)	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	5.7	M3×0.5	23	9	19	5 ⁰ _{-0.05}	11	Φ2H9 ^{+0.025} ₀	Dp:3	16.4±0.05	5.2±0.02	7.6±0.02	18	12	-	-
16	7	M5×0.8	30.6	7.5	19	8 ⁰ _{-0.05}	13	Φ3H9 ^{+0.025} ₀	Dp:3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1
20	9	M5×0.8	42	10	23	10 ⁰ _{-0.05}	15	Φ4H9 ^{+0.03} ₀	Dp:4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1
25	12	M5×0.8	52	10.7	23.5	12 ⁰ _{-0.05}	20	Φ4H9 ^{+0.03} ₀	Dp:4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5
32	14	M5×0.8	60	11	31(37)	15 ⁰ _{-0.05}	24	Φ5H9 ^{+0.03} ₀	Dp:5	40±0.1	12±0.02	23±0.02	46	26	24	3.3
40	17	M5×0.8	72	12	38(45)	18 ⁰ _{-0.05}	28	Φ5H9 ^{+0.03} ₀	Dp:5	48±0.1	14±0.02	29±0.02	56	32	29.4	3.7

Overall Dimensions



XHZL-□□ (Φ10~Φ25)

Double acting

Single acting

Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N	O	P	Q	
10	6	25(35)	12	37.8(47.8)	57(67)	35	19.2 ^{+2.2} ₀	11.2 ⁰ _{-0.7}	4 ⁰ _{-0.1}	16	M3×0.5	6	5.5	6	2.6	29(39)	Φ11H9 ^{+0.043} ₀	Dp:2	11.4	M2.5×0.45	3
16	7.5	31(36)	15	45.2(50.2)	70(75)	47	26.9 ^{+2.2} _{0.2}	14.9 ⁰ _{-0.7}	5 ⁰ _{-0.1}	24	M4×0.7	4.5	8	8	3.4	36(41)	Φ17H9 ^{+0.043} ₀	Dp:2	16	M3×0.5	4
20	9.5	36(42)	20	58(64)	90(96)	62	34.3 ^{+2.2} _{0.2}	16.3 ⁰ _{-0.7}	8 ⁰ _{-0.1}	30	M5×0.8	8	10	10	4.3	43(49)	Φ21H9 ^{+0.052} ₀	Dp:3	18.6	M4×0.7	5
25	11	40(50)	25	66.9(76.9)	106(116)	75	41.3 ^{+2.5} _{0.2}	19.3 ⁰ _{-0.8}	10 ⁰ _{-0.1}	36	M6×1	10	12	12	5.1	48(58)	Φ26H9 ^{+0.052} ₀	Dp:3.5	22	M5×0.8	6

Bore(mm)	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	5.7	M3×0.5	23	8	21(31)	5 ⁰ _{-0.05}	11	Φ2H9 ^{+0.025} ₀	Dp:3	16.4±0.05	5.2±0.02	7.6±0.02	18	12	-	-
16	7	M5×0.8	30.6	8	25(30)	8 ⁰ _{-0.05}	13	Φ3H9 ^{+0.025} ₀	Dp:3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1
20	9	M5×0.8	42	10	30(36)	10 ⁰ _{-0.05}	15	Φ4H9 ^{+0.03} ₀	Dp:4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1
25	12	M5×0.8	52	10	33(43)	12 ⁰ _{-0.05}	20	Φ4H9 ^{+0.03} ₀	Dp:4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5

MHY2 Series Style Air Gripper

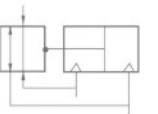


MHY2-25D

Ordering Code

MHY	—	2	—	16	—	D	—	2
Series Code XHY:180° open and close your fingers		Finger Quantity 2PCS		Bore size 10mm~25mm		Action Type D:Double Action		Claw form Blank:Standard thread installation 2:Opening and closing direction through-hole installation

Graphic Symbol



- Auto switch is attachable.
- 180°Retractable simplify pick and place operation.
- May be suitable for use under special circumstances,the finger opening and closing part specifically designed to prevent small items from entering.
- Easy to install, with positioning holes.

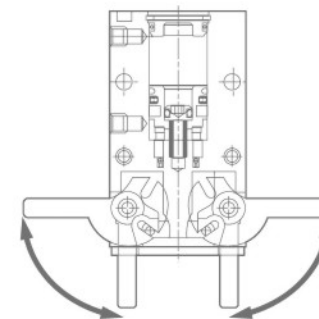
Specification

Bore(mm)	10	16	20	25
Working Medium	Air(to be filtered by 40μm filter element)			
Action Type	Double-acting			
Max.operating Pressure(Mpa)	0.6			
Min.operating Pressure(Mpa)	0.1			
Ambient Fluid Temperature	-10~+60℃			
Max.operating Frequency	60c.p.m			
Repeatability(Mm)	±0.2mm			
Holding Torque N·m Note1)	0.16	0.54	1.10	2.28
Lubrication Note2)	Not required			
Port Size	M5×0.8			

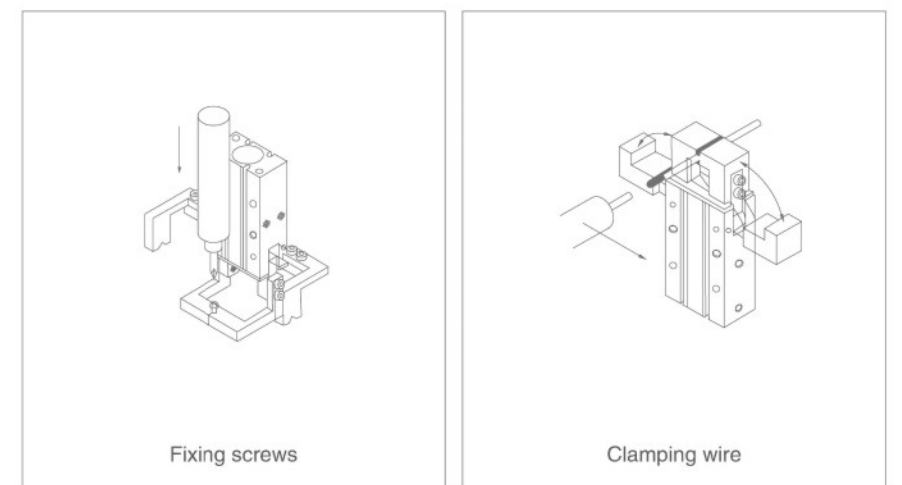
Note 1) At the pressure of 0.5 Mpa

Note 2)If you need lubrication,use turbine No.1 oil ISO VG32.

Chart

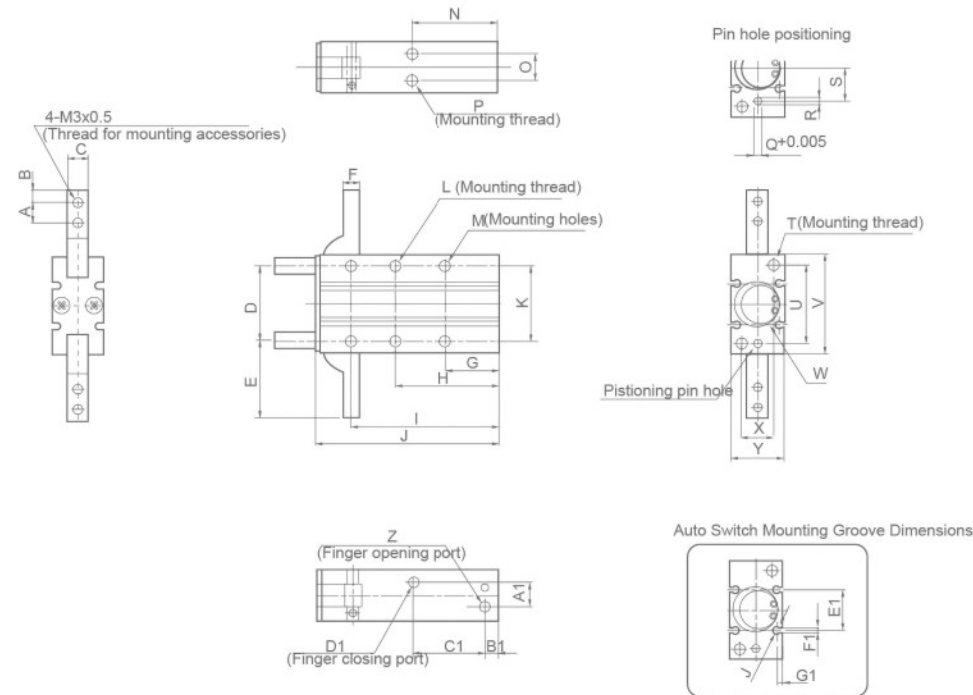


Function Example



MHY2 Series Style Air Gripper

Overall Dimensions



Dimension Sheet

Bore(mm)	A	B	C	D	E	F	G	H
10	6	3	6 ^{-0.05/-0.025}	22	23.5	4	18	35
16	7	4	8 ^{-0.05/-0.025}	28	28.5	10	20	41
20	9	5	10 ^{-0.05/-0.025}	36	37	8	25	50
25	12	6	12 ^{-0.05/-0.025}	45	45	10	30	60

Bore(mm)	I	J	K	L	M	N	O	P
10	47.5	58	24	4-M3x0.5/Thread dep 6	2-Φ3.4	30	19	2-M3x0.5/Thread dep 6
16	55.5	69	30	4-M3x0.7/Thread dep 8	2-Φ4.5	33	12	2-M4x0.7/Thread dep 5
20	69	86	36	4-M5x0.8/Thread dep 10	2-Φ5.5	42	14	2-M5x0.8/Thread dep 10
25	86	107	30	4-M6x1/Thread dep 12	2-Φ6.6	52	12	2-M6x1/Thread dep 10

Bore(mm)	Q	R	S	T	U	V	W	X
10	3H9 ^{+0.05/0}	4	9	2-M3x0.5/Thread dep 6	24	30	Φ11h9 ^{+0.043/0}	9
16	3H9 ^{+0.025/0}	4	19	2-M3x0.7/Thread dep 8	30	38	Φ17h9 ^{+0.043/0}	12
20	4h9 ^{+0.030/0}	5	19	2-M5x0.8/Thread dep 10	38	48	Φ21h9 ^{+0.052/0}	16
25	4h9 ^{+0.052/0}	5	23	2-M6x1/Thread dep 12	46	58	Φ26h9 ^{+0.052/0}	18

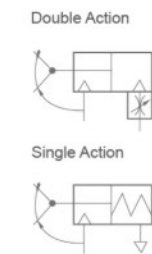
Bore(mm)	Y	Z	A1	B1	C1	D1	E1	F1	G1
10	15	M5x0.8	3	7	23	M5x0.8	13	3	2
16	20	M5x0.8	8	7	25	M5x0.8	18	3	2.5
20	26	M5x0.8	12	8	32	M5x0.8	20	3	3
25	30	M5x0.8	14	8	42	M5x0.8	24	3	3

MHC2 Series Style Air Gripper



MHC2-25D

Graphic Symbol



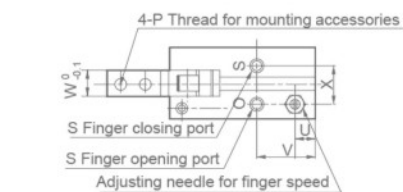
Ordering Code

MHC	2	16	D
Series Code MHC :fulcrum opening and closing fingers	Finger Quantity 2PCS	Bore Size 10mm~25mm	Action Type D:Double Action S:Single Action

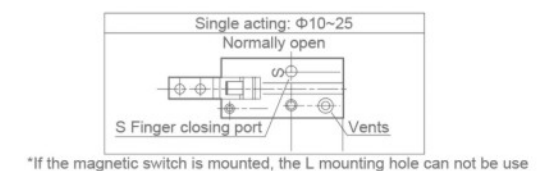
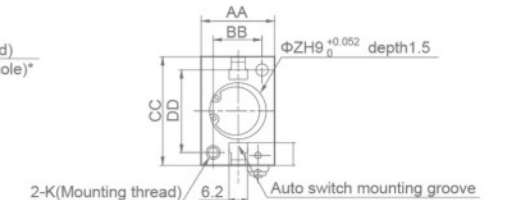
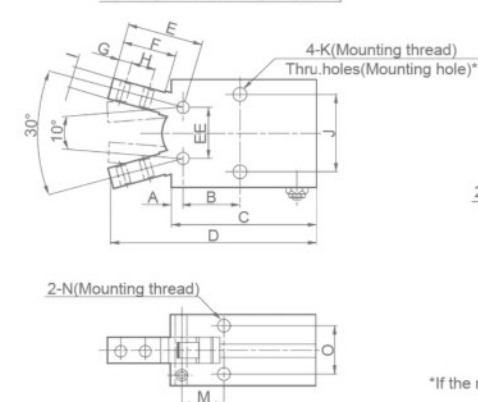
Specifcation

Bore(mm)	10	16	20	25
Working Medium	Air(to be filtered by 40μm filter element)			
Operating pressure MPa	Double-acting 0.25~0.6MPa Single acting 0.1~0.6MPa			
Ambient fluid temperature	-10~60°C			
The highest frequency of use(c.p.m)	180c.p.m			
Repeatability Precision(mm)	±0.01			
Lubrication	Not required			
Port Size	M3×0.5 M5×0.8			

Overall Dimensions



Double acting



*If the magnetic switch is mounted, the L mounting hole can not be use

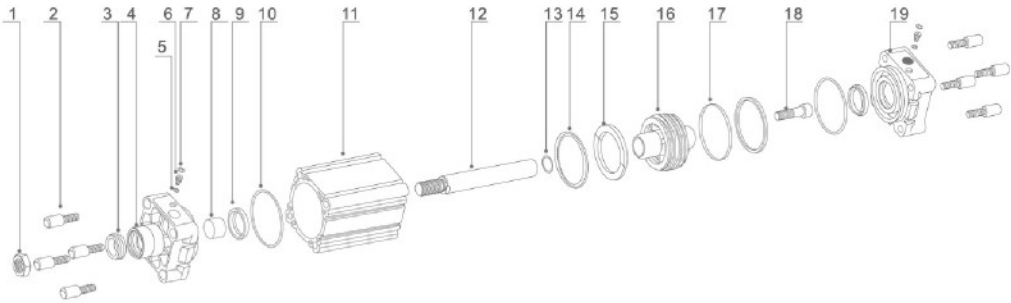
Dimension Sheet

Bore (mm)	A	B	C	D	E	F	G	H	I	J	K		L	M	N		O	P	Port size		U	V	W	X	Y	Z	AA	BB	CC	DD	EE
	S	T																													
10	2.8	12.8	38.6	52.4	17.2	12	3	5.7	4	16	M3×0.5	Dp.5	2.6	8.8	M3×0.5	Dp.6	11.4	M2.5×0.45	M3×0.25	7.2	18.8	6.4	10.4	5.4	11	16.4	12	23	18	10	
16	3.9	16.2	44.6	62.5	22.6	16	4	7	7	24	M4×0.7	Dp.8	3.4	10.7	M4×0.7	Dp.8	16	M3×0.5	M5×0.8	7	18.3	8	13	5.8	17	23.6	15	30.6	22	16	
20	4.5	21.7	55.2	78.7	28	20	5.2	9	8	30	M5×0.8	Dp.10	4.3	15.7	M5×0.7	Dp.8	18.6	M4×0.7	M5×0.8	7.5	22.2	10	15	9	21	27.6	18	42	32	20	
25	4.6	25.8	60.2	92	37.5	27	8	12	10	36	M6	Dp.12	5.1	19.3	M6	Dp.10	22	M5 Dp.0.8	M5×0.8	7.7	23.5	12	20	11.5	26	33.6	22	52	40	25	

CYLINDERS KITS

DNC Series Cylinder Kits

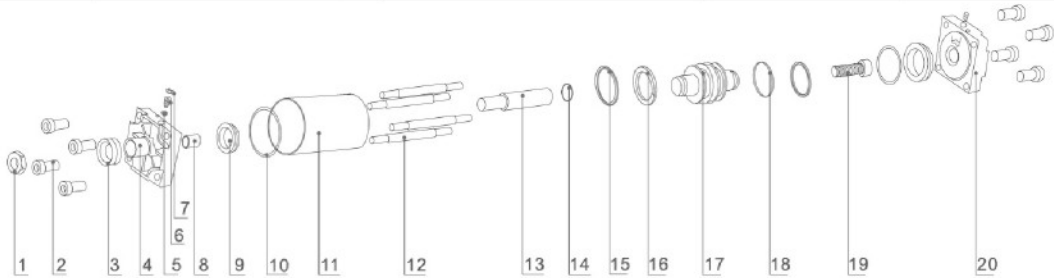
Product	Model/ Specification	Part name	Material	Part name	Material
	DNC Kits (ISO15552) Bore size: Φ32,40, 50,63,80, 100,125	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	PU	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Rod O-ring	17	Wear ring
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Piston seal	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Magnet(optional)	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Piston		

DNG Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	DNG Kits (ISO15552) Bore size: Φ160,200, 250,320	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	PU	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		

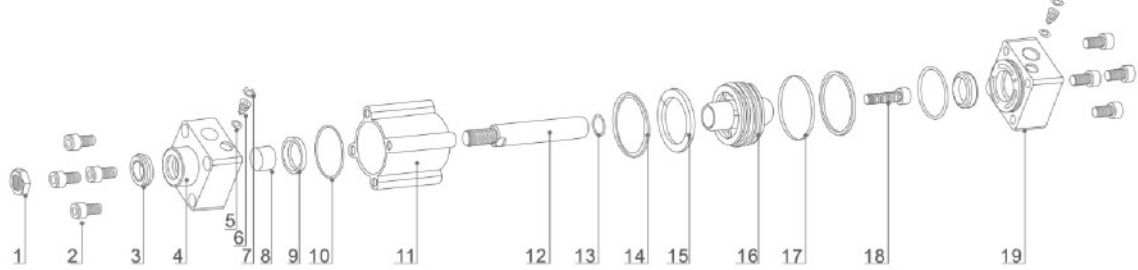


NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Tierod(Without)	17	Piston
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Rod O-ring	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Piston seal	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Magnet(optional)	20	Back cover

CYLINDERS KITS

SI Series Cylinder Kits

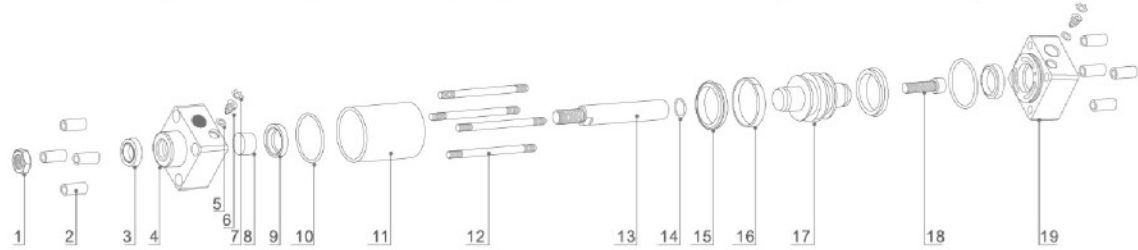
Product	Model/ Specification	Part name	Material	Part name	Material
	SI Kits (ISO6431) Bore size: Φ32,40,50, 63,80,100,125, 160,200	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Profile bolt	Carbon steel
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Rod O-ring	17	Wear ring
2	Profile bolt	6	Adjustable screw	10	Cover O-ring	14	Piston seal	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Magnet(optional)	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Piston rod(Without)	16	Piston		

SC Series Cylinder Kits

Product	Model/ Specification	Part name	Material	Part name	Material
	SC Kits Bore size: Φ32,40,50, 63,80,100,125, 160,200,	Front cover	Aluminum alloy	Piston seal	NBR
		Back cover	Aluminum alloy	Wear ring	PA66
		Piston	Aluminum alloy	Self lubricating bearing	PTFE+Brass
		Piston rod(Without)	S45C hard chrome carbon steel	Magnet(optional)	RbFeb
		Barrel(Without)	Hard anodized aluminum	Cushion needle	Brass
		Front Cover seal	NBR	Hexagon screw	Carbon steel
		Cushion seal	NBR	Nut	Carbon steel
		Piston rod O-ring	NBR	Tie-rod nut	Carbon steel
		Cover O-ring	NBR		



NO	Designation	NO	Designation	NO	Designation	NO	Designation	NO	Designation
1	Nut	5	O-ring	9	Cushion seal	13	Piston rod(Without)	17	Piston
2	Tie-rod nut	6	Adjustable screw	10	Cover O-ring	14	Rod O-ring	18	Hex Socket Screw
3	Front Cover seal	7	Block slip	11	Barrel(Without)	15	Piston seal	19	Back cover
4	Front cover	8	Self Lubricating bearing	12	Tie rod(Without)	16	Wear ring		

AC Series Shock Absorber

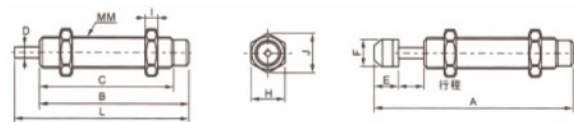
Order Code



AC	25	25	1	N
Series Code	Sleeve	Impact	Impact Speed	Buffer Cap
Auto	Female	Stroke	1.high Speed	Blank:with Buffer Cap
Compensation	Thread		2.medium Speed	N:without Buffer Cap
			3.low Speed	

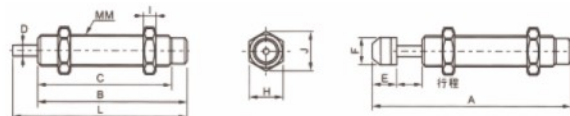
Technical Specification

Model	Thread Size	Stroke Mm	Max. Absorbing Energy Nm	Valid Weight Value Wx(kg)	Tolerance Speed M/sec	Tolerance Speed Nm	Working Temperature °C
AC0806	M8x1.0	6	2	0.5~6.0	0.8~2.0	8800	-10~+80
AC1005	M10x1.0	5	3	0.9~7.0	0.8~3.0	10800	-10~+80
AC1008	M10x1.0	8	4	2.0~9.0	0.8~3.0	15200	-10~+80
AC1210	M12x1.0	10	5	5.0~30	0.8~3.0	17640	-10~+80
AC1410	M14x1.5	10	13	8.0~100	0.8~3.0	28000	-10~+80
AC1412	M14x1.5	12	15	8.0~110	0.8~3.0	30000	-10~+80
AC1416	M14x1.5	16	20	10~150	0.8~3.0	35000	-10~+80
AC1420	M14x1.5	20	22	10~160	0.8~3.0	38000	-10~+80
AC1425	M14x1.5	25	25	12~170	0.8~3.0	40000	-10~+80
AC2015	M20x1.5	15	35	25~600	1.0~3.2	40000	-10~+80
AC2020	M20x1.5	20	40	30~700	1.0~3.5	40000	-10~+80
AC2025	M20x1.5	25	45	30~720	1.0~3.5	45000	-10~+80
AC2030	M20x1.5	30	50	30~750	1.0~3.5	48000	-10~+80
AC2050	M20x1.5	50	60	60~1200	1.0~3.5	60000	-10~+80
AC2525	M25x1.5	25	80	200~1500	1.0~4.0	54000	-10~+80
AC2530	M25x1.5	30	90	230~1800	1.0~4.0	60000	-10~+80
AC2540	M25x1.5	40	120	300~2000	1.0~4.0	75000	-10~+80
AC2550	M25x1.5	50	100	15~160	1.0~4.0	90000	-10~+80
AC2580	M25x1.5	80	150	20~200	1.0~4.0	120000	-10~+80
AC3660	M36x1.5	60	250	400~2400	1.0~4.0	120000	-10~+80
ACD2030	M20x1.5	30	45	40~900	1.0~4.0	55000	-10~+80
ACD2035	M20x1.5	35	52	10~650	1.0~4.0	63000	-10~+80

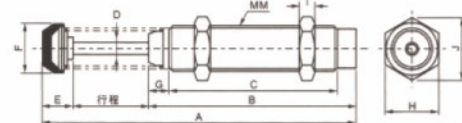


Model		Basic Type					With Hit Head			Hex Nut		
basic type	with hit head	Mm	L	B	C	D	A	E	F	H	I	J
AC1410-N	AC1410	M14x1.5	88	78	69	4	101	13	12.2	19	6.5	21.6
AC1412-N	AC1412	M14x1.5	90	78	69	4	103	13	12.2	19	6.5	21.6
AC1416-N	AC1416	M14x1.5	111	95	86	4	124	13	12.2	19	6.5	21.6
AC1420-N	AC1420	M14x1.5	115	95	86	4	128	13	12.2	19	6.5	21.6
AC1425-N	AC1425	M14x1.5	135	110	101	4	148	13	12.2	19	6.5	21.6
AC2015-N	AC2015	M20x1.5	110	95	85.5	6	125	15	18	27	8	30.7
AC2020-N	AC2020	M20x1.5	115	95	85.5	6	130	15	18	27	8	30.7
AC2025-N	AC2025	M20x1.5	137	112	102.5	6	152	15	18	27	8	30.7
AC2030-N	AC2030	M20x1.5	142	112	102.5	6	157	15	18	27	8	30.7
AC2050-N	AC2050	M20x1.5	206.5	156.5	146.5	6	221.5	15	18	27	8	30.7
AC2525-N	AC2525	M25x1.5	136	111	100	8	152.5	16.5	23	32	10	36.7
AC2530-N	AC2530	M25x1.5	141	111	100	8	157.5	16.5	23	32	10	36.7

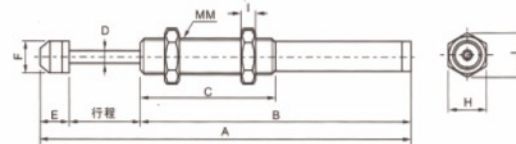
Dimensions (mm)



Model		Basic Type					With Hit Head			Hex Nut		
Basic Type	With Hit Head	Mm	L	B	C	D	A	E	F	H	I	J
AC0806-n	AC0806	M8x1.0	44	38	33	3	50.5	6.5	6.7	11	3	12.6
AC1005-n	AC1005	M10x1.0	33	28	23.5	3	39	6	8.7	12.7	3	14.5
AC1008-n	AC1008	M10x1.0	51	43	38.5	3	57	6	8.7	12.7	3	14.5
AC1210-n	AC1210	M12x1.0	60	50	45.5	3	70.3	9.5	10.3	14	4	16



Model	Basic Type								Hex Nut		
	Mm	A	B	C	D	E	F	G	H	I	J
AC2540	M25x1.5	211	137	116	8	34	22.5	10	32	10	36.7
AC3660	M36x1.5	247.8	162	134	10	25.8	35.8	17	45	15	53



Model	Basic Type							Hex Nut		
	Mm	A	B	C	D	E	F	H	I	J
AC2550	M25x1.5	238	171.5	100	8	16.5	23	32	10	36.7
AC2580	M25x1.5	333.5	237	100	8	16.5	23	32	10	36.7

ACD Series Shock Absorber

Order Code

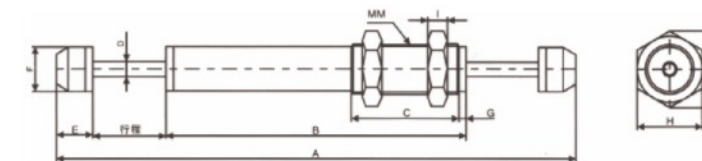


ACD	20	30	1	N
Series Code	Outer	Impact	Impact Speed	Buffer Cap
Acid:double-direction	Diameter	Stroke	1.high Speed	Blank:with Buffer Cap
Buffer			2.medium Speed	N:without Buffer Cap
			3.low Speed	

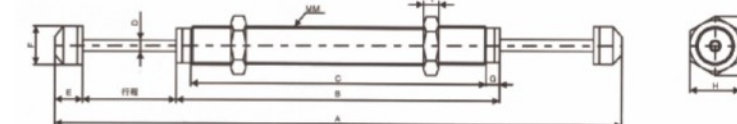
Technical Specification

Model	Stroke	Max. Absorbing Energy	Absorbing Energy / Hour	Absorbing Energy / Hour			Absorbing Energy / Hour M/s			Working Temperature °C
				1	2	3	1	2	3	
ACD-2030	30	45	54,000	40	300	900	3.5	2	1.0	-10~80
ACD-2035	30	45	54,000	40	700	650	3.5	2	1.0	-10~80
ACD-2050	50	52	62,400	40	180	500	3.5	3.5	3.5	-10~80
ACD-2050-w	50	60	15,000	40	180	500	2.0	2.0	2.0	-10~80

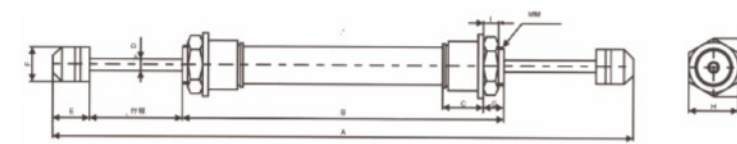
Dimensions (mm)



Model	Dimension	Hex Nut								
Model	Mm	A	B	C	D	E	F	G	H	I
ACD-2030	M20x1.5	214	123	44	6	15	18	3	27	8
ACD-2035	M20x1.5	224	123	44	6	15	18	3	27	8



Model	Dimension	Hex Nut								
Model	Mm	A	B	C	D	E	F	G	H	I
ACD-2050	M20x1.5	302	172	157	6	15	18	7.5	27	8



Model	Dimension	Hex Nut								
Model	Mm	A	B	C	D	E	F	G	H	I
ACD-2050-w	M20x1.5	313	173	23	6	15	18	10	27	8

RBC Series Short Shock Absorber

Order Code



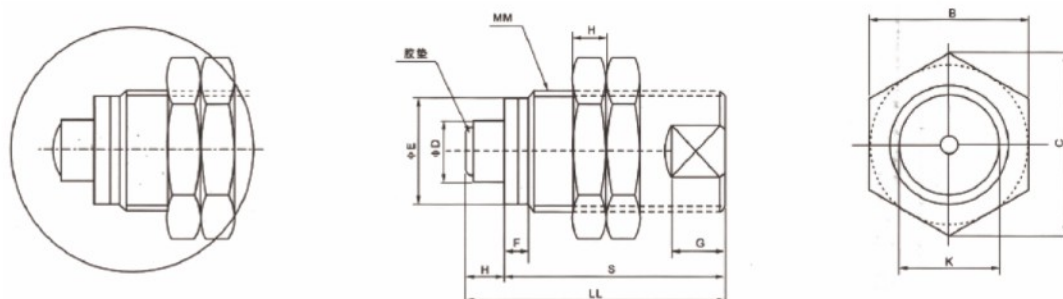
RBC	C	20	07	□
series code	No mark: basic type C: Rubber cushion	body thread	stroke	no mark:without S:with limited nut J:extra hex nut 1 PC(total 3 PCS)

Technical Specification

Model	RB1604 RBC1604	RB2007 RBC2007	RB2508 RBC2508	RB3009 RBC3009	RB3213 RBC3213
Max Absorbing Energy(J)	19.6	11.8	19.6	33.3	49
Max Absorbing Energy(mm)	4	7	8	8.5	13
Impact Speed (m/sec)	0.05~3	0.05~33	0.05~33	0.05~3	0.05~3
Max Operating Frequent(time/sec)	60	60	45	45	30
Max Tolerate Force (n)	294	490	686	981	1177
Enviroment Temperature	-10~80°C	-10~80°C	-10~80°C	-10~80°C	-10~80°C
Sping Force (n)	Push Out 6.08 Pressue Return 13.45	12.75 27.75	15.69 37.85	21.57 44.23	24.52 54.23

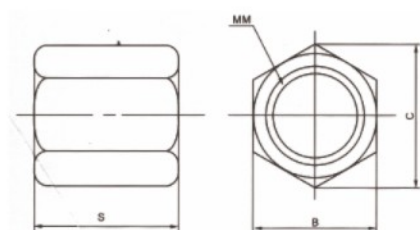
Dimensions (mm)

Basic Type



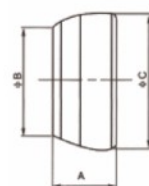
Model	Dimension	Hex Nut
Basic Type	With Glue Type	D E F H K G LL MM S B C H
RB1604	RBC1604	6 14.2 3.5 4 14 7 31 M16x1.5 27 22 25.4 6
RB2007	RBC2007	10 18.2 4 7 18 9 44.5 M20x1.5 37.5 27 31.2 6
RB2508	RBC2508	12 23.2 4 8 23 10 52 M25x1.5 44 32 37 6
RB3009	RBC3009	16 28.3 5 8.5 28 12 61.5 M30x1.5 53 41 47.3 6
RB3213	RBC3213	18 30.2 5 13 30 13 76 M32x1.5 63 41 47.3 6

limited nut



Model	B	C	S	MM
RB16S	22	25.4	12	M16x1.5
RB20S*	27	31.2	16	M20x1.5
RB25S	32	37	18	M25x1.5
RB30S	41	47.3	20	M30x1.5
RB32S	41	47.3	25	M32x1.5

PVC Material Science



Model	A	B	C
RBC16C	3.5	4	4.7
RBC20C	4.5	8	8.3
RBC25C	5	8.3	9.3
RBC30C	6	11.3	12.4
RBC32C	6.6	13.1	14.4

AD series shock absorber

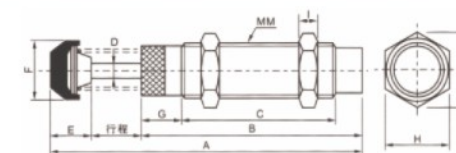
Order Code



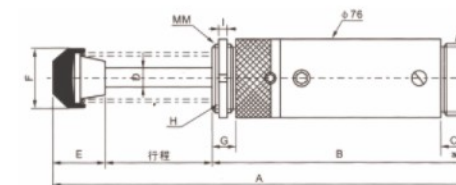
AD	25	25	1	N
series code FC:adjustable type	sleeve female thread	Impact Stroke	Impact Speed 1.high Speed 2.medium Speed 3.low Speed	Buffer Cap Blank:with Buffer Cap N:without Buffer Cap

Specification

Model	Thread Size	Stroke mm	Max. Absorbing Energy Nm	Valid Weight Value We(kg)	Tolerance Speed M/sec	Tolerance Speed Nm	Working Temperature °C
AD1410	M14x1.5	10	20	2.9~120	3.2	27000	-10~+80
AD1412	M14x1.5	12	20	2.9~120	3.2	27000	-10~+80
AD1416	M14x1.5	16	22	2.9~150	3.2	27000	-10~+80
AD1420	M14x1.5	20	22	2.9~150	3.2	27000	-10~+80
AD1425	M14x1.5	25	25	2.9~150	3.2	27000	-10~+80
AD2016	M20x1.5	16	28	5.5~224	3.2	33600	-10~+80
AD2020	M20x1.5	20	35	6.8~280	3.2	42000	-10~+80
AD2025	M20x1.5	25	40	7.9~330	3.2	50000	-10~+80
AD2030	M20x1.5	30	45	8.5~450	3.2	58000	-10~+80
AD2050	M20x1.5	50	60	12.5~500	3.2	60200	-10~+80
AD2525	M25x1.5	25	78	15.2~624	3.5	70200	-10~+80
AD2530	M25x1.5	30	105	18.4~785	3.5	79000	-10~+80
AD2540	M25x1.5	40	122	23.8~976	3.5	87800	-10~+80
AD2550	M25x1.5	50	148	24.2~1048	3.5	96700	-10~+80
AD2580	M25x1.5	80	190	16.1~1100	3.5	13000	-10~+80
AD3625	M36x1.5	25	180	21~880	3.2	81000	-10~+80
AD3650	M36x1.5	50	220	43~1760	3.2	105600	-10~+80
AD4225	M42x1.5	25	280	55~3200	3.7	125000	-10~+80
AD4250	M42x1.5	50	500	60~4000	4.5	150000	-10~+80
AD4275	M42x1.5	75	750	70~6000	4.5	180000	-10~+80

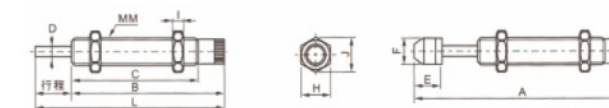


Model	Dimension	Hex Nut
MM	A B C D E F G H I J	
AD4225	M42x1.5 186.5 127.5 88 12 34 44.5 28.5 50 15 58	
AD4250	M42x1.5 241 157 117.5 12 39 44.5 28.5 50 15 58	
AD4275	M42x1.5 301.5 187.5 148 12 39 44.5 28.5 50 15 58	

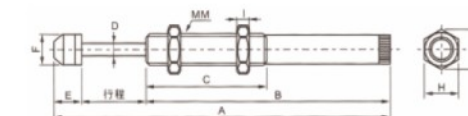


Model	Dimension	Hex Nut
MM	A B C D E F G H I	
AD64050	UNF 2 1/2-12 247.8 146 26 20 51.8 59 23 φ 76.2 9.4	
AD64100	UNF 2 1/2-12 347.8 196 26 20 51.8 59 23 φ 76.2 9.4	
AD64150	UNF 2 1/2-12 467.8 256 26 20 61.8 59 23 φ 76.2 9.4	

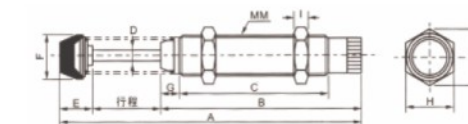
Dimensions (mm)



Model	Basic Type	With Hit Head	Hex Nut
Basic Type	With Hit Head	MM L B C D A E F H I J	
AD1410-N	FC1410	M14x1.5 90.8 80.8 69 3.5 103.8 13 12.2 19 6.5 21.6	
AD1412-N	FC1412	M14x1.5 92.8 80.8 69 4 105.8 13 12.2 19 6.5 21.6	
AD1416-N	FC1416	M14x1.5 113.8 97.8 86 4 126.8 13 12.2 19 6.5 21.6	
AD1420-N	FC1420	M14x1.5 117.8 97.8 86 4 130.8 13 12.2 19 6.5 21.6	
AD1425-N	FC1425	M14x1.5 137.8 112.8 101 4 150.8 13 12.2 19 6.5 21.6	
AD2016-N	FC2016	M20x1.5 117.5 101.5 85.5 6 132.5 15 18 27 8 30.7	
AD2020-N	FC2020	M20x1.5 121.5 101.5 85.5 6 136.5 15 18 27 8 30.7	
AD2025-N	FC2025	M20x1.5 143.5 118.5 102.5 6 158.5 15 18 27 8 30.7	
AD2030-N	FC2030	M20x1.5 148.5 118.5 102.5 6 163.5 15 18 27 8 30.7	
AD2050-N	FC2050	M20x1.5 213 163 146.5 6 228 15 18 27 8 30.7	
AD2525-N	FC2525	M25x1.5 142 117 100 8 159.5 16.5 23 32 10 36.7	
AD2530-N	FC2530	M25x1.5 147 117 100 8 163.5 16.5 23 32 10 36.7	



Model	Dimension	Hex Nut
MM	A B C D E F H I J	
AD2550	M25x1.5 244 177.5 100 8 16.5 23 32 10 36.7	
AD2580	M25x1.5 339.5 243 100 8 16.5 23 32 10 36.7	



Model	Dimension	Hex Nut
MM	A B C D E F G H I J	
AD2540	M25x1.5 217 143 116 8 34 22.5 10 32 10 36.7	
AD3625	M36x1.5 184 133 103 10 25.8 35.8 10 45 15 53	
AD3650	M36x1.5 247.5 171.5 134 10 25.8 35.8 17 45 15 53	

SR series adjustable hydraulic stabitizer



Order Code

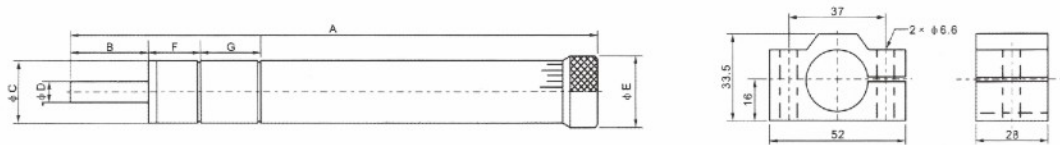
SR	-	30
Series		stroke
SR:adjustable		15:15mm
hydraulic stabitizer		30:30mm
		60:60mm
		80:80mm
		100:100mm

- 1.It can perform stable speed control for long time, reset b use of spring.
- 2.Full sealing structure, no oil leakage, and dustproof, can suit for different special conditions.
- 3.The viscosity of hydraulic oil will be stable change even if the temperature changes, consequently it has high speed stabilization function.
- 4.Small size, easy installation, it suits for mechanical hand, air compressed cylinder automatic machine, speed regulation driller, grinding machine, shearing and cutting machine, and etc.

Specification

Model	Max.stroke	Max. Load	Speed Range	Tolerate Impact Energy	Working Temperature℃
SR-15	15mm	15~350kgf/cm ²	0.5~30mm/s(Load)100kg	0.23kgf/m	-10~80
SR-30	30mm	15~350kgf/cm ²	0.5~30mm/s(Load)100kg	0.23kgf/m	-10~80
SR-60	60mm	15~350kgf/cm ²	0.5~30mm/s(Load)100kg	0.23kgf/m	-10~80
SR-80	80mm	15~350kgf/cm ²	0.5~30mm/s(Load)100kg	0.23kgf/m	-10~80
SR-100	100mm	15~350kgf/cm ²	0.5~30mm/s(Load)100kg	0.23kgf/m	-10~80

Dimensions (mm)



Model	A	B	C	D	E	F	G	Max.stroke	Working Temperature	Max. Load
HR15	151	15	24	10	28.5	18	24	15	0~60℃	15~350kgf
HR30	206	30	24	10	28.5	18	24	30	0~60℃	15~350kgf
HR60	285	60	24	10	28.5	18	24	60	0~60℃	15~350kgf
HR80	337	80	24	10	28.5	18	24	80	0~60℃	15~350kgf
HR100	398	100	24	10	28.5	18	24	100	0~60℃	15~350kgf

Air Combination Accessories
Cup Series



Model	2000-5000 Type
Cup Material	Polycarbonate
unit Material	Brass(2000 Type Can Choose Plastic)

Connect Plate/Middle Plate/Hanger



Model	2000-5000 Type
Body Material	Die-casting aluminum(2000 type zinc)

Af Series Bracket



Model	f Series 2000-5000 Type
body material	Iron With Nickel Plated

Filter Element



Model	body material	filter Accuracy
2000-5000 Type	Sintered Brass	40μm(standard)
A/B Series 2000-4000 Type		
U Series 02-08 Type		
200-400 Series		

Accessories



2000-5000 Type Auto Drain Series



Regulated Handle

