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**BLCH**

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**BLCH**

**PNEUMATIC COMPONENTS**

Air Source Treatment Control Components Auxiliary Components Executive Components Accessories

Product Selection Guide  
百灵气动科技有限公司



**BLCH**  
**百灵气动**  
TECHNOLOGY CREATES 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 24000M<sup>2</sup>, 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.



● **300+**  
Employees

● **40+**  
R&d technicians

● **50+**  
Exported countries

● **50+**  
Various patents

● **120Million +**  
Annual output value

● **100+**  
Products series

# HONOR & CERTIFICATES



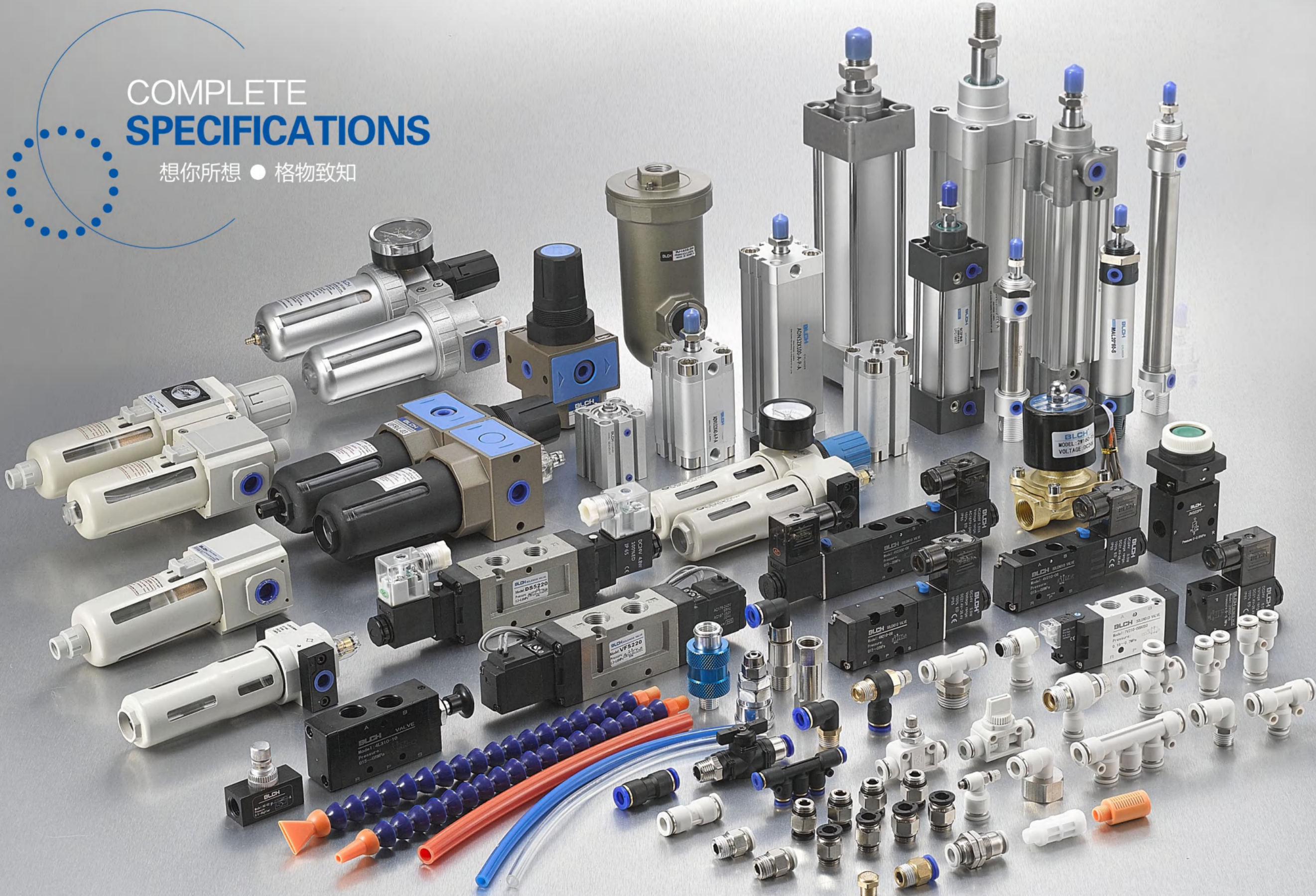
National high-tech enterprise  
National industry standard developing organization  
Zhejiang province high-tech R&D center

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

BLCH PNEUMATIC  
SCIENCE & TECHNOLOGY  
CO., LTD.

www.blch.cn  
www.bipneumatic.com

Air Source Treatment



- |                                    |   |
|------------------------------------|---|
| 02 AC Series F.R.L combination     | 27 LF Series Air filter                   |
| 03 AC Series FR.L combination      | 28 LR Series Air Regulator                |
| 04 AF Series Air filter            | 28 LFR Series Air filter-regulator        |
| 06 AW Series Air filter-regulator  | 29 LOE Series Lubricator                  |
| 08 AR Series Air Regulator         | 29 AMD Series Micro Mist Separator        |
| 10 AL Series Air Lubricator        | AMG Series Water Separator                |
| 12 G Series F.R.L combination      | 30 IR Series Precision Regulator          |
| 13 G Series FR.L combination       | 32 SFC Series Two-point combination       |
| 14 G Series Air filter             | 32 SFR Series Air filter-regulator        |
| 15 G Series Air filter-regulator   | 32 SL Series Lubricator                   |
| 16 G Series Air Regulator          | 33 UFRL Series Three-point combination    |
| 17 G Series Air Lubricator         | 33 UFR/L Series Two-point combination     |
| 18 C Series F.R.L combination      | 34 UF Series Air filter                   |
| 18 C Series FR.L combination       | 34 UFR Series Air filter-regulator        |
| 18 C Series Air filter             | 35 UR Series Air filter-regulator         |
| 19 C Series Air filter-regulator   | 35 UL Series Lubricator                   |
| 19 C Series Air Regulator          | 36 FRL700A Three-point combination        |
| 19 C series Lubricator             | 36 FRL700A Two-point combination          |
| 20 AD/AH Series Automatic Drain    | 36 FR500A Air filter-regulator            |
| 20 YT Series Lock valve            | 37 NR200/R200 Air Regulator               |
| 21 A/B Series F.R.L combination    | 37 F200A Air filter                       |
| 22 A/B Series FR.L combination     | 37 R200A Air Regulator                    |
| 23 A/B Series Air filter           | 38 4000-5000 Explosion proof aluminum cup |
| 24 A/B Series Air filter-regulator | 38 SHAKO Series Aluminum cup              |
| 25 A/B Series Air Regulator        | 38 BP Series Automatic drain              |
| 26 A/B Series Lubricator           | 38 IS1000 Series Pressure switch          |
| 27 FRC Series FR.L combination     |   |

Control Components



- |                                |  |
|--------------------------------|--|
| 40 3V series Solenoid Valve    | 51 VT307 series Solenoid Valve         |
| 42 4V series Solenoid Valve    | 52 ASC series Flow Control Valve       |
| 45 6V series Solenoid Valve    | 52 RE series Flow Control Valve        |
| 46 4M series Solenoid Valve    | 53 3H/4H series Hand Valve             |
| 47 2V series Solenoid Valve    | 53 3L/4L series Hand Valve             |
| 47 Solenoid Valve Coil         | 54 DS3000/VF3000 series Solenoid Valve |
| 47 HSV series Slide Valve      | 56 DS5000/VF5000 series Solenoid Valve |
| 48 3A series Air Control Valve | 58 VFA series Air Control Valve        |
| 49 4A series Air Control Valve | 60 Manifold series                     |

Control Components



- |                                   |
|-----------------------------------|
| 61 2W series Solenoid Valve       |
| 62 2L series Solenoid Valve       |
| 63 2S series Solenoid Valve       |
| 64 PU series Solenoid Valve       |
| 65 Parts of Solenoid Valve        |
| 66 HV series Hand Valve           |
| 67 4HV series Hand Valve          |
| 68 FV320/420 series Foot Valve    |
| 69 4F/FOV series Foot Valve       |
| 70 FV/3F/3FM series Foot Valve    |
| 71 VM200 series Mechanical Valve  |
| 72 S3 series Mechanical Valve     |
| 74 VM100 series Mechanical Valve  |
| 75 JM322 series Mechanical Valve  |
| 76 MOV321 series Mechanical Valve |
| 77 MV322 series Mechanical Valve  |
| 78 MV522 series Mechanical Valve  |
| 79 QE series Quick Exhaust Valve  |

Executive Components



- |   |
|---|
| 98 SC/SU Series Standard Cylinder             |
| 100 DNC Series Standard Cylinder              |
| 102 SI Series Standard Cylinder               |
| 104 MB Series Standard Cylinder               |
| 106 SDA Series Compact Cylinder               |
| 108 CQ2 Series Compact Cylinder               |
| 110 CQS Series Compact Cylinder               |
| 112 ADVU series compact cylinder              |
| 114 MAL Series Aluminum Mini Cylinder         |
| 116 MA Series Stainless Steel Mini Cylinder   |
| 118 CM2 Series Stainless Steel Mini Cylinder  |
| 120 CJ2 Series Stainless Steel Mini Cylinder  |
| 121 DSN series round cylinder                 |
| 123 TN Series Double Rods Cylinder            |
| 125 CXS Series Twin Rods Cylinder             |
| 126 CU Series Free Mounting Cylinder          |
| 128 MGP Series Compact Guide Cylinder         |
| 131 AC Series Shock Absorber                  |
| 132 ACD Series Shock Absorber                 |
| 133 RBC Series Short Shock Absorber           |
| 134 AD Series Shock Absorber                  |
| 135 SR Series Adjustable Hydraulic Stabilizer |

Auxiliary Components



- |  |
|--|
| 79 CV series Non-return Valve              |
| 81 PC Straight Male Thread                 |
| 81 PCF Straight Female Thread              |
| 82 PL Elbow Male Thread                    |
| 82 PLF Elbow Female Thread                 |
| 83 PLL Elbow Longer Male Thread            |
| 83 PH External Hex Joint                   |
| 83 PHF Joints in Series                    |
| 84 PB T-Shape Vertical Male Thread         |
| 84 PD T-Shape side Male Thread             |
| 85 PX Y-Shape Three-Way Thread             |
| 85 PK Five-Way                             |
| 85 PKG Reduced Five-Way                    |
| 86 PM Bulkhead Union                       |
| 86 PY Y-Shape Three-Way                    |
| 86 PU Straight Union                       |
| 86 PV Elbow Two-Way                        |
| 86 PUG Reduced Straight Union              |
| 86 PYG Y-Shape Reduced Three-Way           |
| 87 PE T-Shape Three-Way                    |
| 87 PEG T-Shape Reduced Three-Way           |
| 87 SL Speed controller                     |
| 87 LSA Pipe Speed controller               |
| 87 PKB Side Male Thread Five-Way           |
| 87 PKD Side Female Thread                  |
| 87 PZA Union Cross                         |
| 87 HVFF series Hand Switch                 |
| 88 BUC series Hand Valves                  |
| 88 BC series Hand Valves                   |
| 88 BC-G series Hand Valves                 |
| 88 BL-G series Hand Valves                 |
| 88 BUL series Hand Valves                  |
| 88 KCM Push in Check valve                 |
| 88 AN series Plastic Silencer              |
| 88 AL series Plastic Silencer              |
| 88 ST/SV series Brass Silencer             |
| 89-90 White fittings                       |
| 91 Brass Nickel Plating-One Touch Fittings |
| 91 Metal One Touch Fittings                |
| 92 Quick Pipe Connectors                   |
| 93 Micro Quick Fittings                    |
| 93 SPP Series Plug                         |
| 93 Rotation Fittings                       |
| 93 Oil Pipe                                |
| 94 PU Tube                                 |
| 94 Spiral Tube                             |
| 94 Air Gun                                 |
| 95 C Type Quick Coupler                    |
| 96 Self-locked C Type Quick Coupler        |

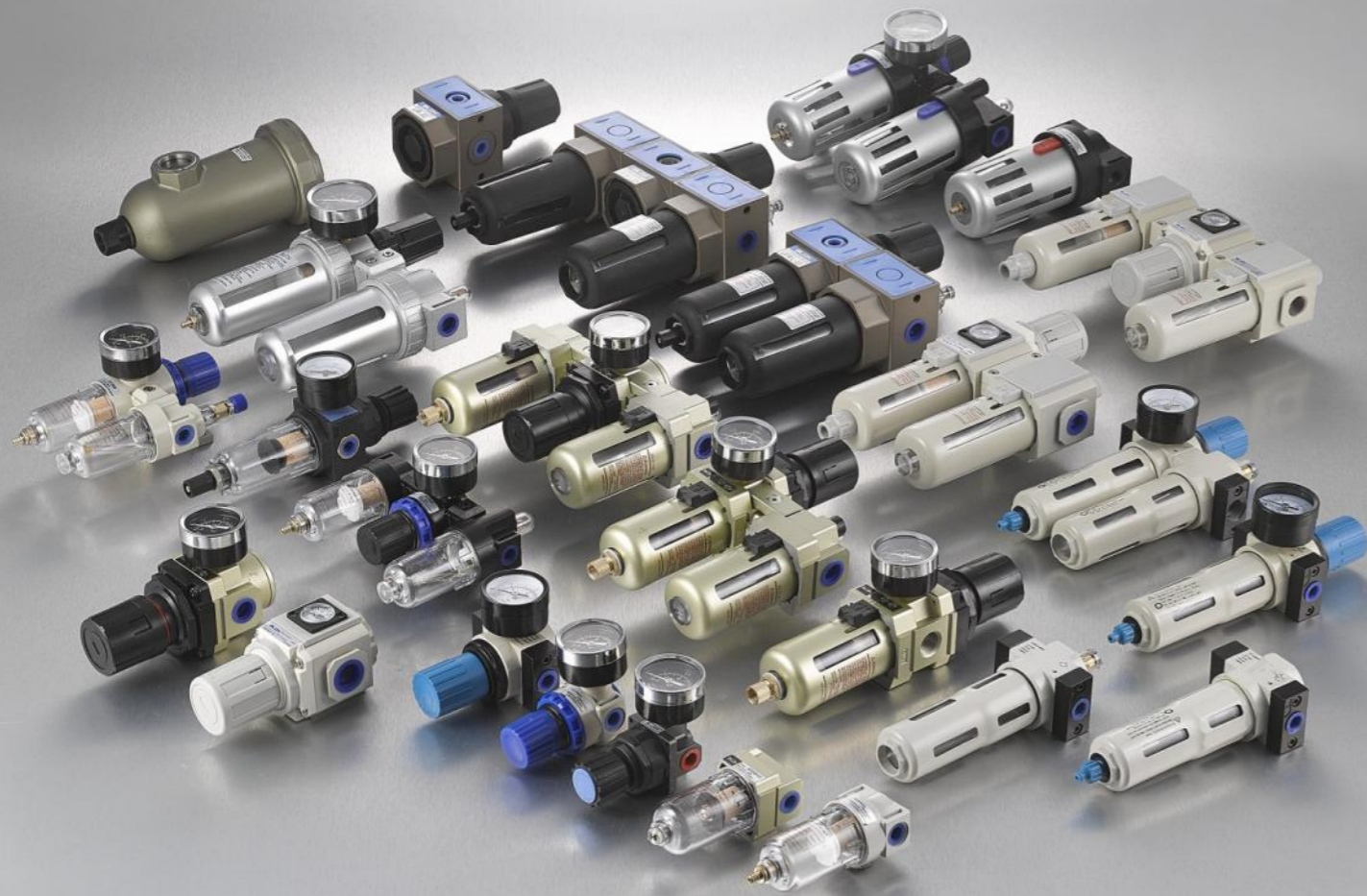
Accessories



- |   |
|---|
| 136 Air Combination Accessories             |
| 137 Cylinder Accessories                    |
| 138 SC Series Standard Cylinder Accessories |

# AIR SOURCE TREATMENT

气源处理件



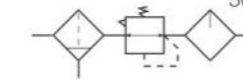
## AC Series F.R.L combination



### Order Code

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

### Symbol

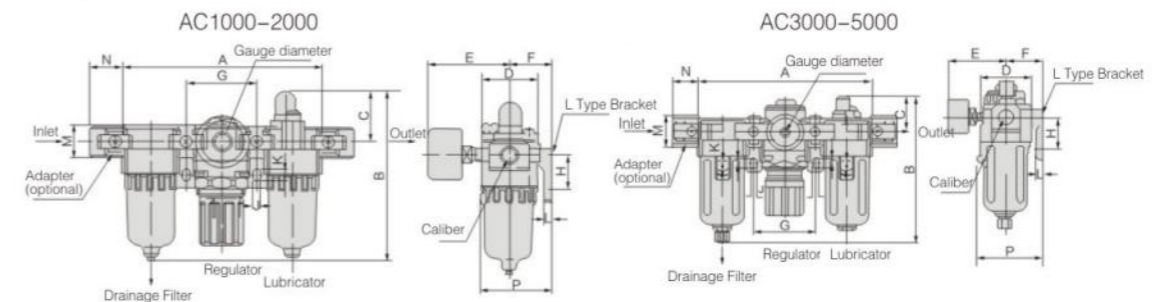


### Technical Specification

Proof Pressure	1.5Mpa   15bar , 217.5psi
Max. operating pressure	1.0Mpa   10bar, 145psi
Ambient Temperature	5~60°C(Not Frozen)
Filter Precision	40 μm
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)
Bowl Material	PC
Cup Cover	AC1000-2000(Without) AC3000-5000(with)
Range of Regulation	AC1000:0.05-0.7Mpa(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

Air Source Treatment  
Control Components  
Auxiliary Components  
Executive Components  
Accessories

AC Series FR.L combination

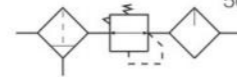


Order Code

AC	2000	-	02	□
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Series: AC, Body Size: 2000, Port Size: M5, Drain Mode: Nil

Symbol



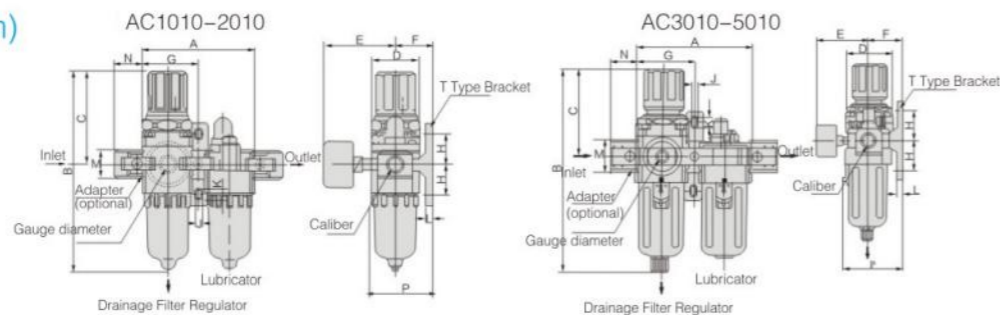
Body Size: 1010, 2010, 3010, 4010, 5010  
 Port Size: M5, 1/4", 3/8", 1/2", 3/4", 1"

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
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				
Manual	Automatic	Filter	Lubricator	Max. Flow (L/min)	Port Size Rp(PT)	Pressure Gauge SizeRp(PT)
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

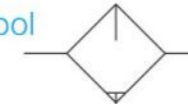


Order Code

AF	2000	-	02	□
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Series: AF, Body Size: 2000, Port Size: M5, Drain Mode: Nil

Symbol



Body Size: 1000, 2000, 3000, 4000, 5000  
 Port Size: M5, 1/4", 3/8", 1/2", 3/4", 1"

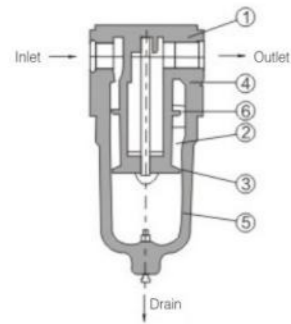
Technical Specification

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
Bowl Material	PC
Cup Cover	AC1000-2000(Without) AC3000-5000(with)

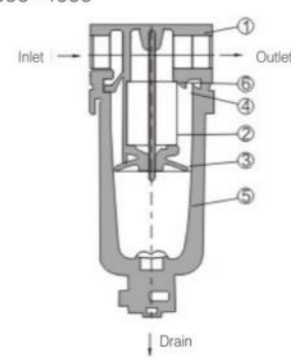
Model		Specifications		
Manual	Automatic	Max. Flow (L/min)	Port Size Rp(PT)	Cup Combination(cm³)
AF1000-M5	AF1000-M5D	110	M5x0.8	4
AF2000-02	AF2000-02D	750	1/4	15
AF3000-02	AF3000-02D	1500	1/4	20
AF3000-03	AF3000-03D	1500	3/8	20
AF4000-03	AF4000-03D	4000	3/8	45
AF4000-04	AF4000-04D	4000	1/2	45
AF4000-06	AF4000-06D	6000	3/4	45
AF5000-06	AF5000-06D	7000	3/4	130
AF5000-10	AF5000-10D	7000	1	130

### Structure Charts

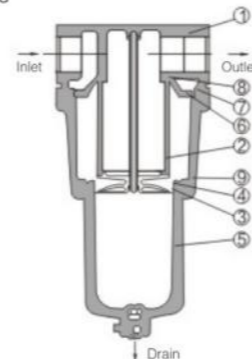
AF1000~2000



AF3000~4000

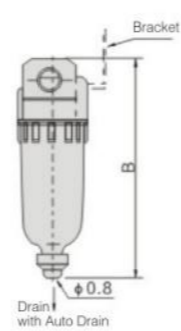
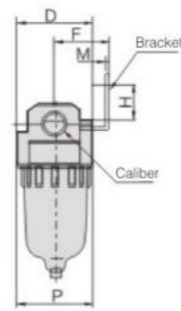
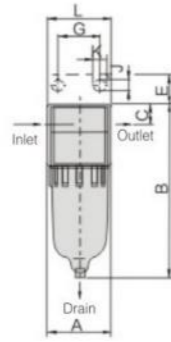


AF5000

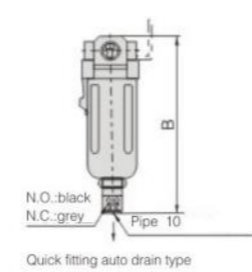
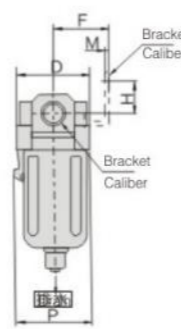
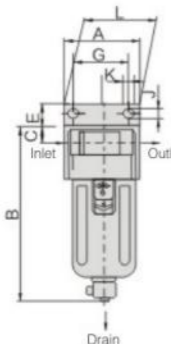


### Dimension(mm)

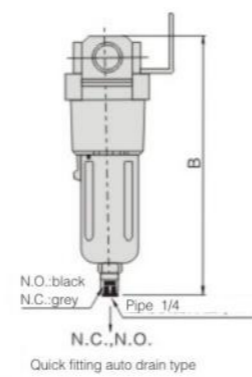
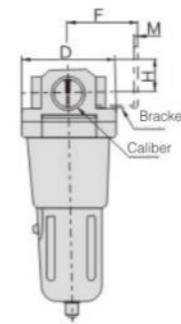
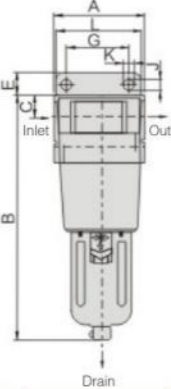
AF1000~2000



AF3000~4000



AF5000

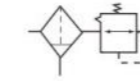


Model	Port Size	A	B	C	D	E	F	G	H	J	K	L	M	P	With Auto Drain
															B
AF1000-M5	M5x0.8	25	68	7.5	25	-	-	-	-	-	-	-	-	25	87
AF2000-01/02	1/8 · 1/4	40	97.5	11	40	17	30	27	21	5.5	8.5	40	1.8	40	120
AF3000-02/03	1/4 · 3/8	53	134	14	53	16	41	40	24	6.5	8	53	1.8	55	173
AF4000-03/04	3/8 · 1/2	70	169	17	70	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



Symbol



### Order Code

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

### Technical Specification

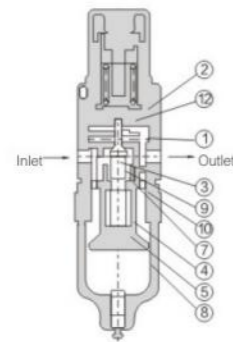
Proof Pressure	1.5Mpa   15bar , 217.5psi
Max. operating pressure	1.0Mpa   10bar, 145psi
Ambient Temperature	5~60°C(Not Frozen)
Filter Precision	40 μ m, 5 μ m(customized)
Bowl Material	PC
Cup Cover	AC1000-2000(Without) AC3000-5000(with)
Range of Regulation	AW1000:0.05-0.7Mpa(7.25-101.5 psi) AW2000-5000:0.05-0.85Mpa(7.25-123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

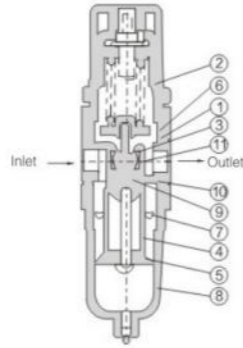


Structure Charts

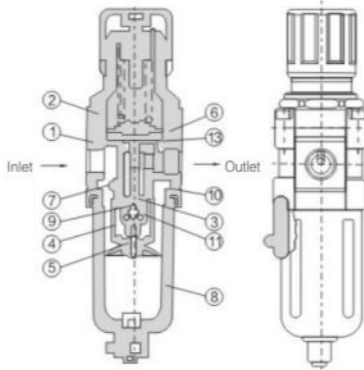
AW1000



AW2000

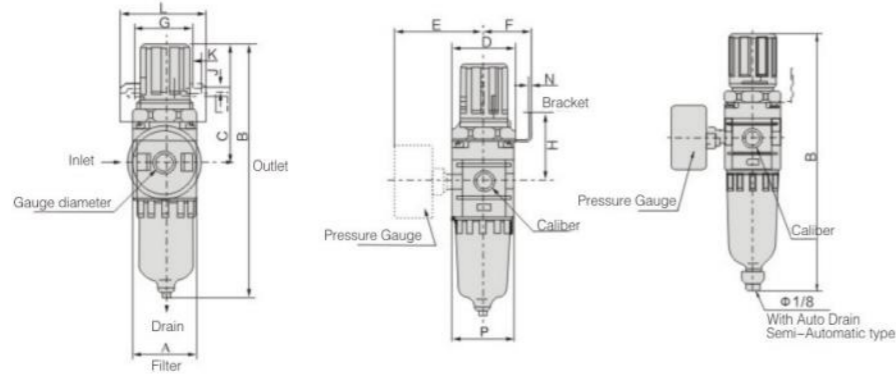


AW3000~4000

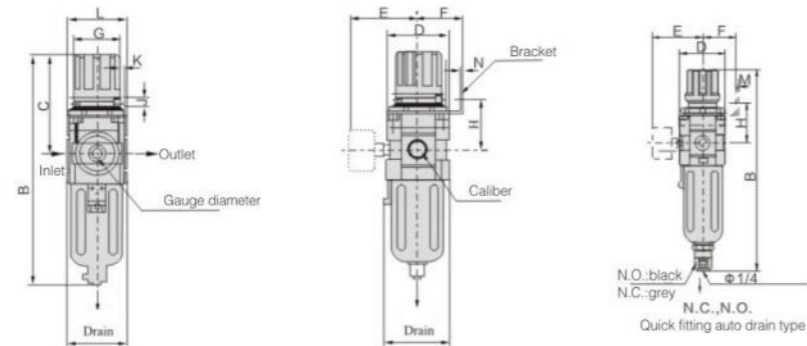


Dimension(mm)

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

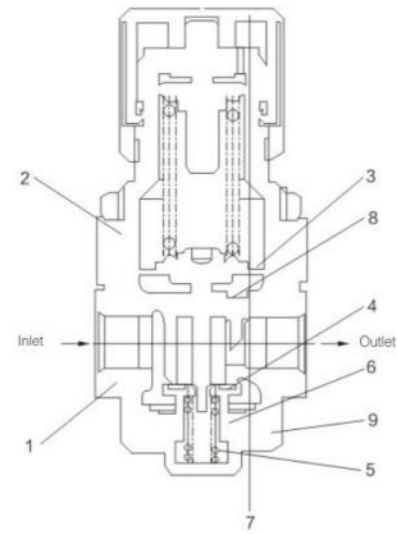


Technical Specification

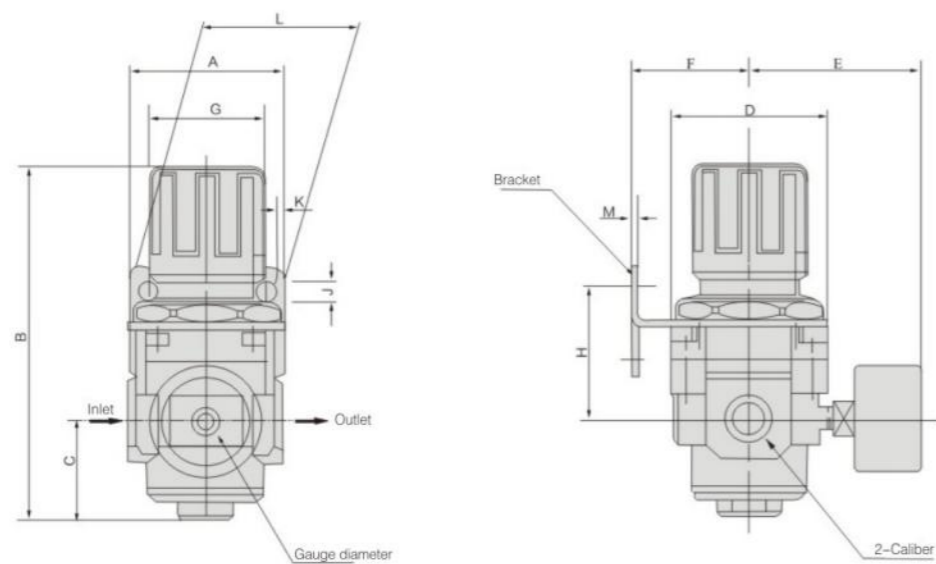
Proof Pressure	1.5Mpa   15bar , 217.5psi
Max. operating pressure	1.0Mpa   10bar, 145psi
Ambient Temperature	5~60°C(Not Frozen)
Range of Regulation	AR1000:0.05~0.7Mpa(7.25~101.5 psi) AR2000~5000:0.05~0.85Mpa(7.25~ 123 psi)

Model	Specifications		
	Max. Flow(L/min)	Port SizeRp(PT)	Pressure Gauge SizeRp(PT)
AR1000-M5	100	M5 x 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

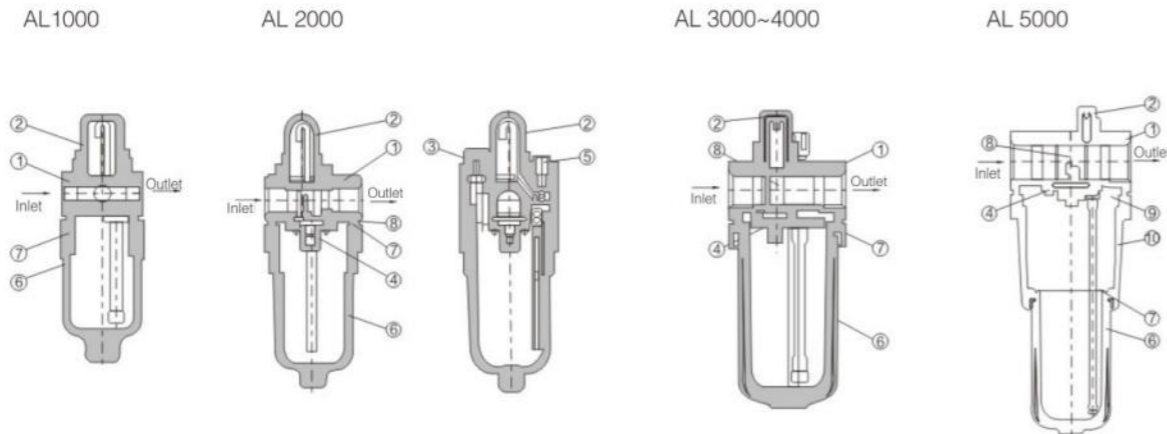


Technical Specification

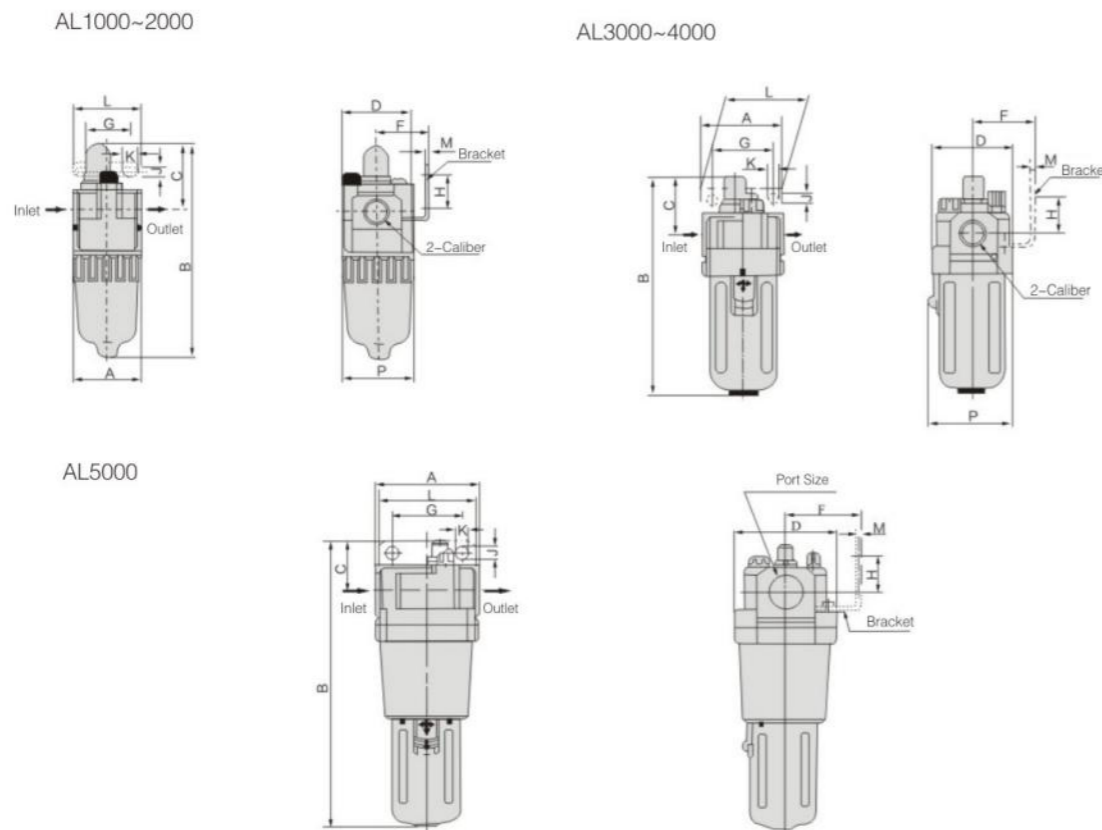
Proof Pressure	1.5Mpa [ 15bar , 217.5psi ]
Max. operating pressure	1.0Mpa [ 10bar, 145psi ]
Ambient Temperature	5-60°C(Not Frozen)
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)
Bowl Material	PC
Cup Cover	AC1000-2000(Without) AC3000-5000(with)

Model	Max. Flow(L/min)	Specifications		
		Max. Flow(L/min)	Port SizeRp(PT)	cup combination(cm <sup>3</sup> )
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	-	-	-	-	-	-	-	-	-

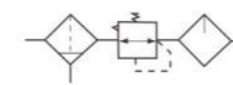
G Series F.R.L combination



Order code

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

Symbol



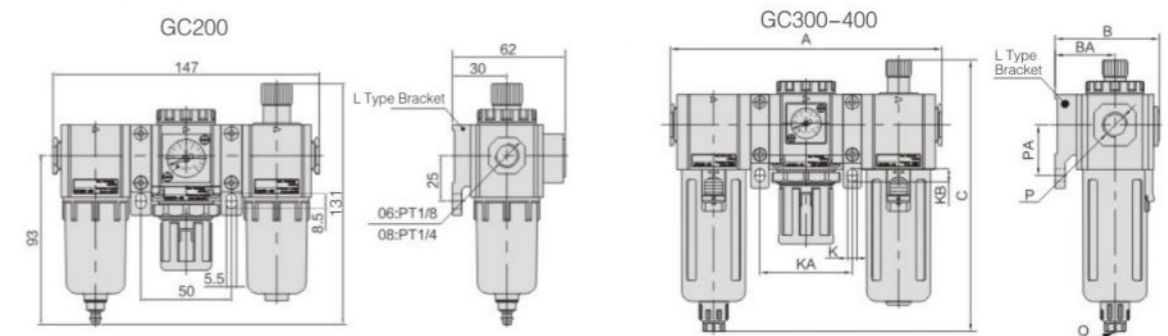
Product feature

- 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 μm or 5 μm						
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)	0.68kg			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

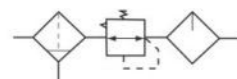
G Series FR.L combination



Order Code

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

Symbol



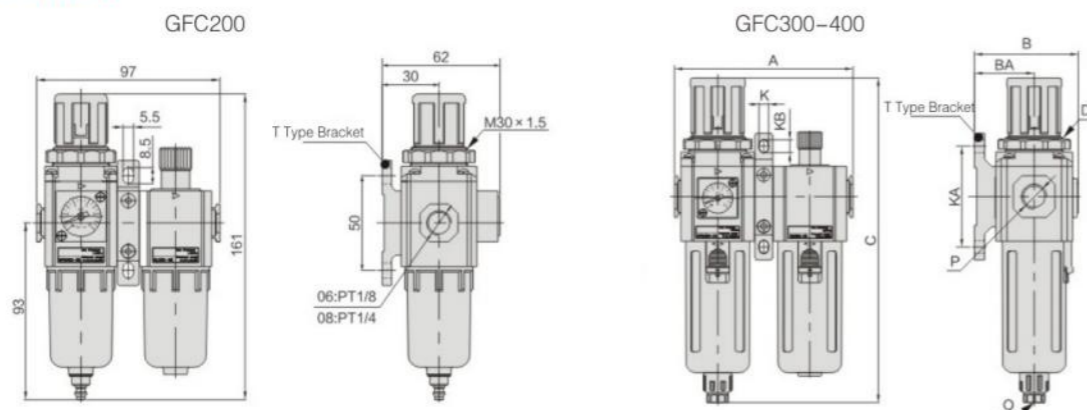
Product feature

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

Symbol



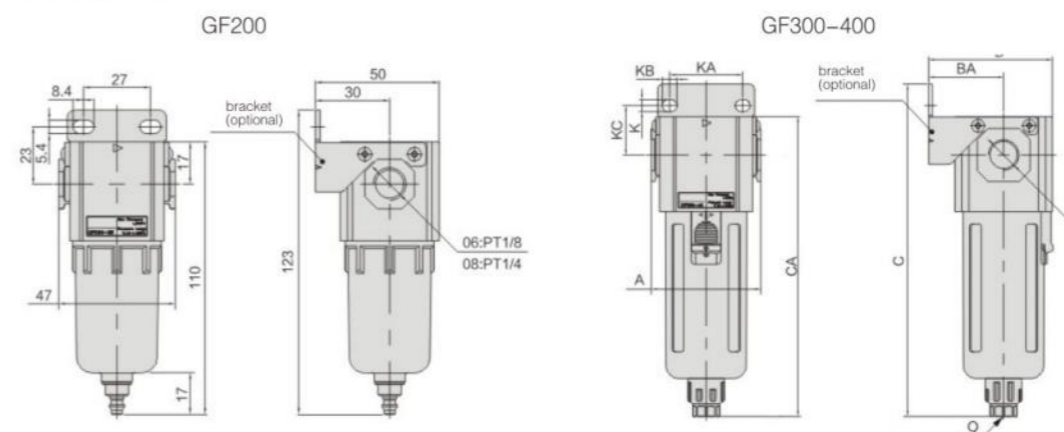
Product feature

- 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

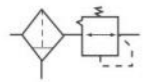
G Series Air filter-regulator



Order Code

GFR200 - 08 - □ - F - □ - □									
Series	Drain Mode	Pressure Gauge type	Port Size						
GFR200 series	Nil D	F   Square Gauge	Nil   PT Port						
GFR300 series		C   Round Gauge	T   NPT Port						
GFR400 series			G   G Port						
				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



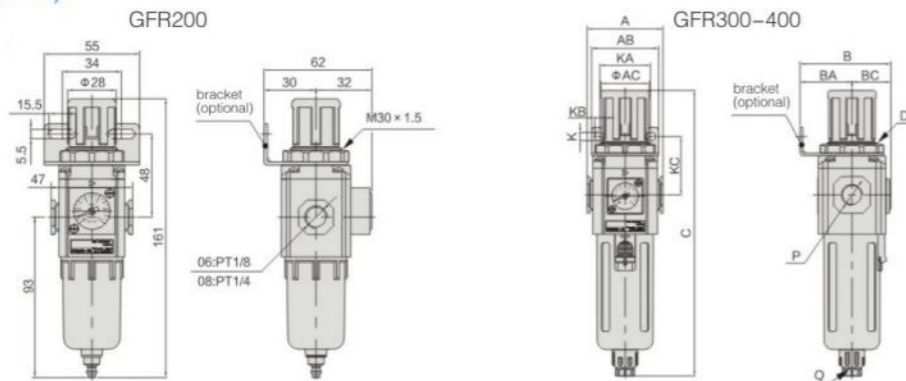
Product feature

- 1.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°C(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 D	F   Square Gauge	Nil   PT Port						
GR300 series		C   Round Gauge	T   NPT Port						
GR400 series			G   G Port						
				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



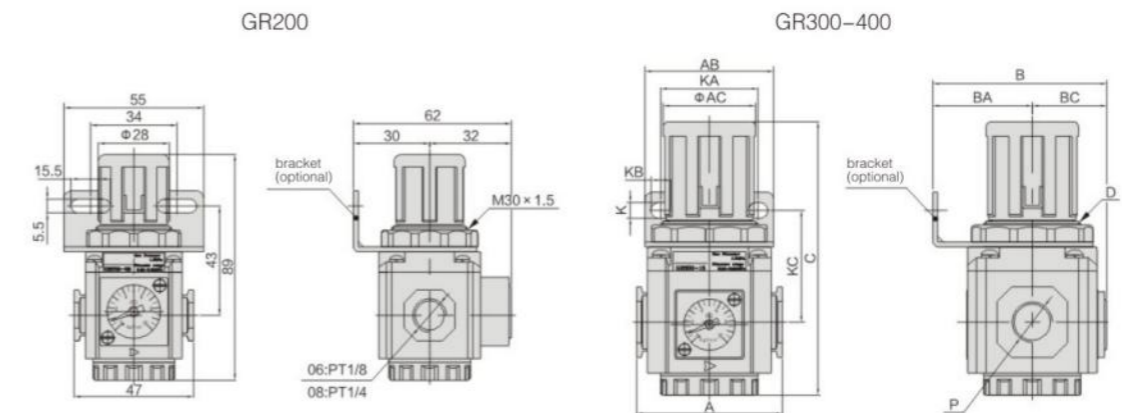
Product feature

- 1.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°C(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

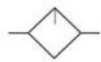
### G series Air Lubricator

#### Order Code

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



#### Symbol



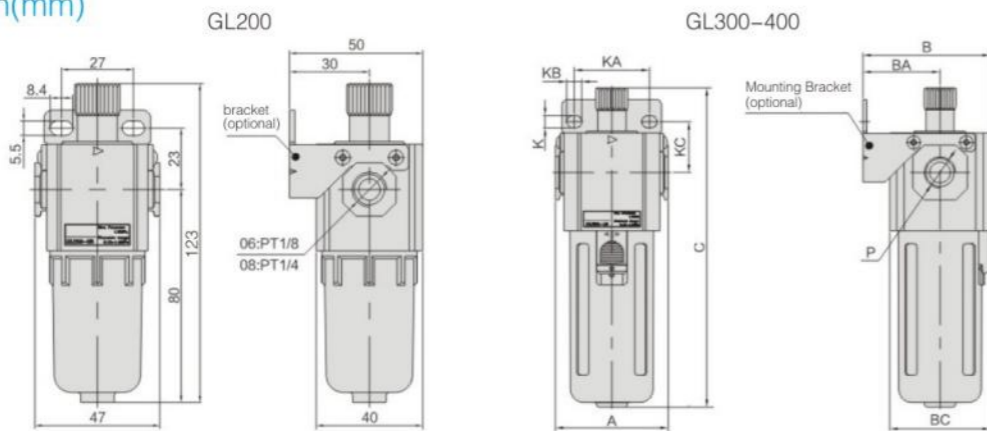
#### Product Feature

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 position 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°C(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	

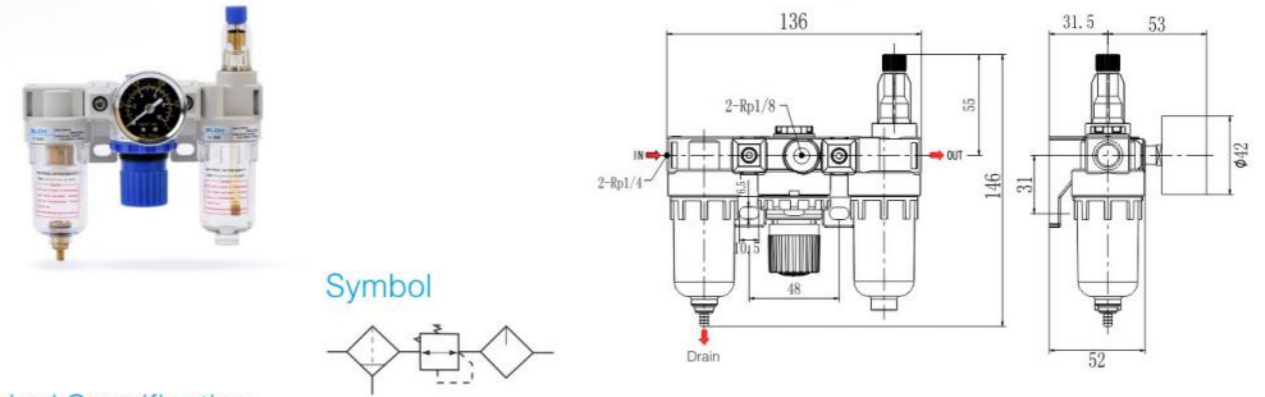
#### Dimension(mm)



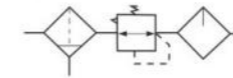
Model	A	B	BA	BC	C	K	KA	KB	KC	P
GL300-08	60	68	41	53.5	174	6.5	40	8	27	PT1/4
GL300-10	60	68	41	53.5	174	6.5	40	8	27	PT3/8
GL300-15	60	68	41	53.5	174	6.5	40	8	27	PT1/2
GL400-10	80	85.5	50	71	188	8.5	55	11	33.5	PT3/8
GL400-15	80	85.5	50	71	188	8.5	55	11	33.5	PT1/2

### C Series F.R.L combination

#### Dimension(mm)



#### Symbol

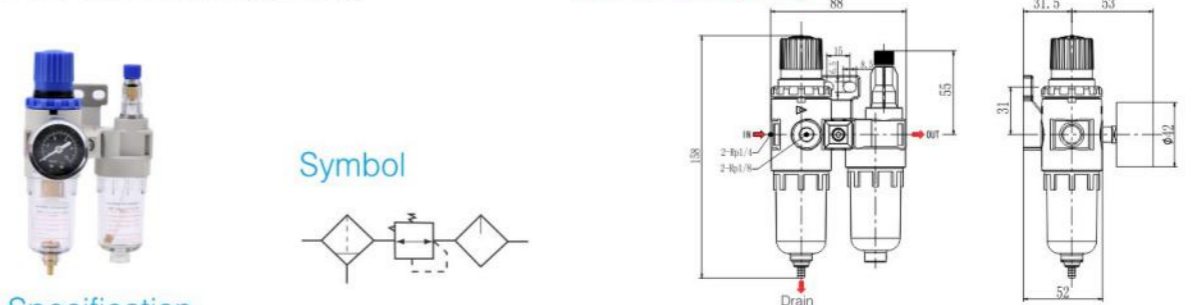


#### Technical Specification

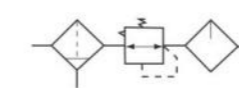
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CC2000	1/4"	650	0.15~0.85	G(with gauge) Environment current temperature -5~60°C(Not Frozen)

### C Series FR.L combination

#### Dimension(mm)



#### Symbol

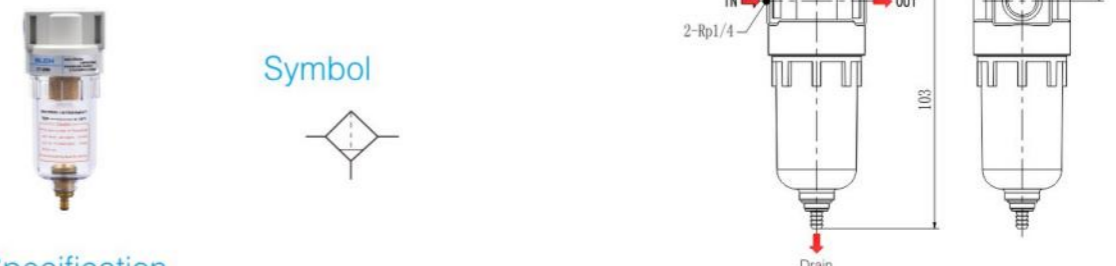


#### Technical Specification

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°C(Not Frozen)

### C Series Air filter

#### Dimension(mm)



#### Symbol



#### Technical Specification

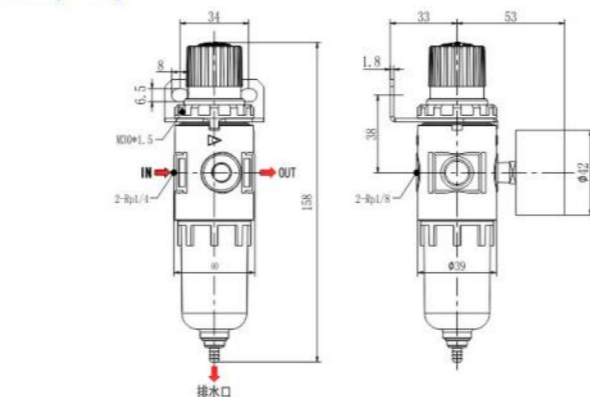
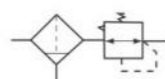
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CF2000	1/4"	650	0.15~0.85	Environment current temperature -5~60°C(Not Frozen)

C Series Air filter-regulator

Dimension(mm)



Symbol



Technical Specification

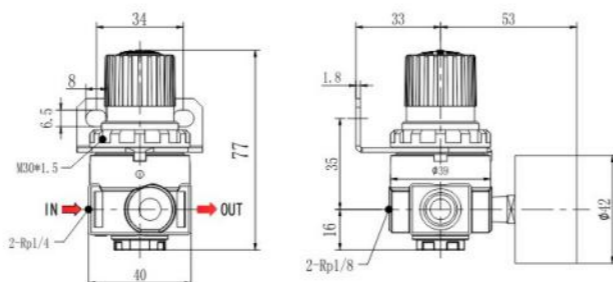
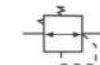
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CFR2000	1/4"	650	0.15~0.85	with mounting bracket G(with gauge) Ambient Temperature: -5~60°C(Not Frozen)

C Series Air Regulator

Dimension(mm)



Symbol



Technical Specification

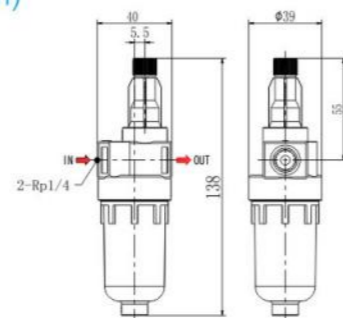
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CR2000	1/4"	650	0.15~0.85	with mounting bracket G(with gauge) Ambient Temperature: -5~60°C(Not Frozen)

C series Lubricator

Dimension(mm)



Symbol



Technical Specification

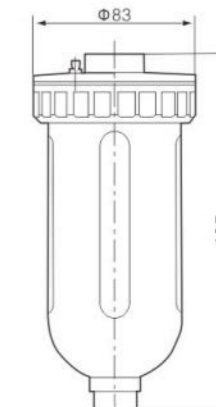
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
CL2000	1/4"	650	0.15~0.85	Environment current temperature -5~60°C(Not Frozen)

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"	0.15~0.85	Ambient Temperature: -5~60°C(Not Frozen) No need people operating Max. Working pressure: 10Mpa (10.2kgf/cm2) 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	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.

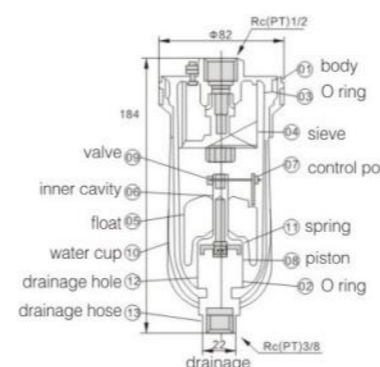
The power of the compressor should be greater than 3.7KW

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).

Structure Charts



Main parts

No.	Model	Standard
1	body	Die-casting aluminum

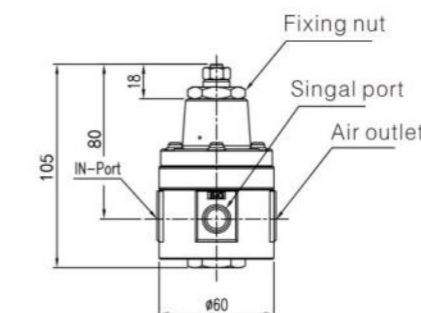
Specification

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 <sup>①</sup>
Setting pressure range	0.14~0.7Mpa
Working pressure	MAX0.7Mpa
Hysteresis	0.01Mpa <sup>②</sup>
Effective basal area	1.7mm <sup>2</sup>
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.

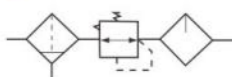
A/B Series F.R.L combination



Order Code

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

Symbol



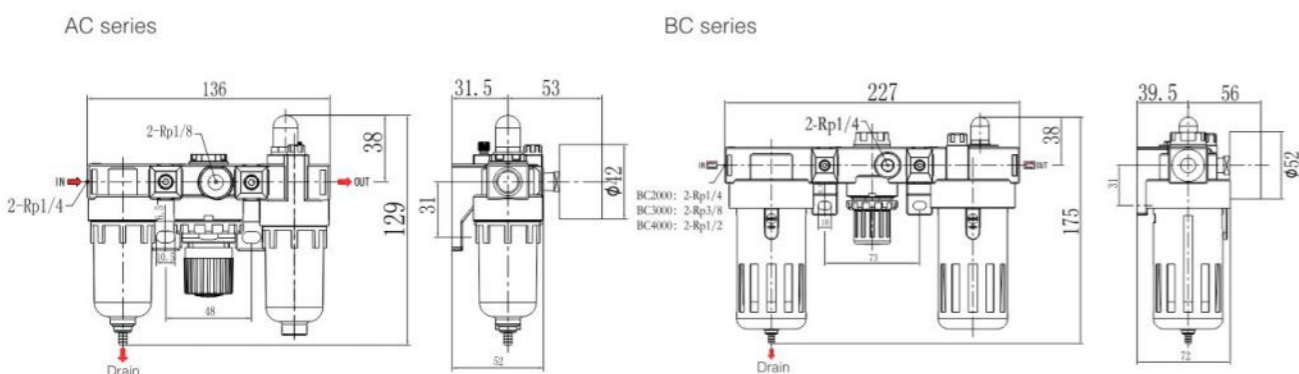
Product feature

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)



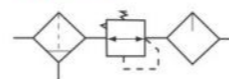
A/B Series FR.L combination



Order Code

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

Symbol



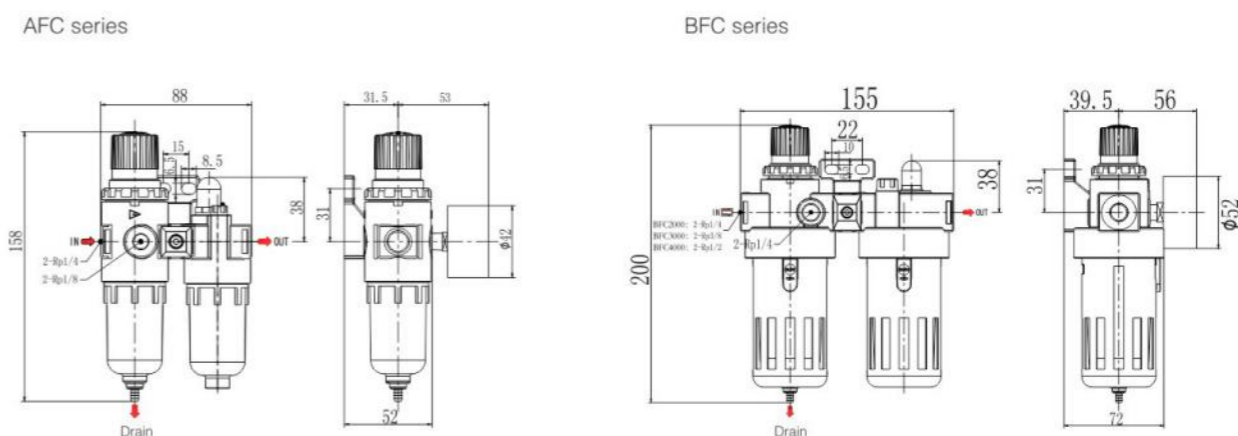
Product feature

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°C(Not Frozen)				
Water Cup Capacity	15CC	60CC			
Oil Cup Capacity	25CC	90CC			
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)				
Weight(kg)	0.44kg	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	AF A series Air Filter	Port Size	2000 1/4" 3000 3/8" 4000 1/2"	Drain Mode
	BF B series Air Filter			Nil   Semi-Automatic Type M   Manual Type D   Automatic Type

Symbol



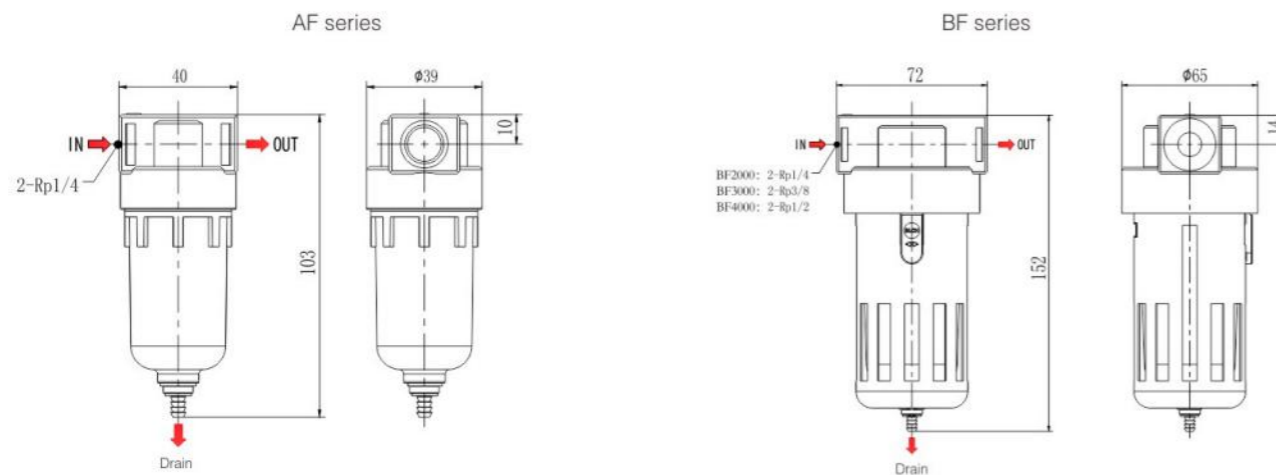
Product feature

- |  |  |
|--|--|
| AF series  | BF series  |
| 1. The structure is delicate and compact, which is convenient for installation and application .                             | 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. | 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 μm Or 5 μm			
Pressure Range	Automatic and Semi-Automatic:0.15-1.0MPa(20-145Psi)			
Proof Pressure	1.5MPa(215Psi)			
Temperature Range	-5~60°C(Not Frozen)			
Water Cup Capacity	15CC	60CC		60CC
Weight(kg)	0.12kg	0.42kg		0.42kg

Dimension(mm)



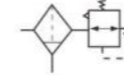
A/B Series Air filter-regulator



Order Code

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

Symbol



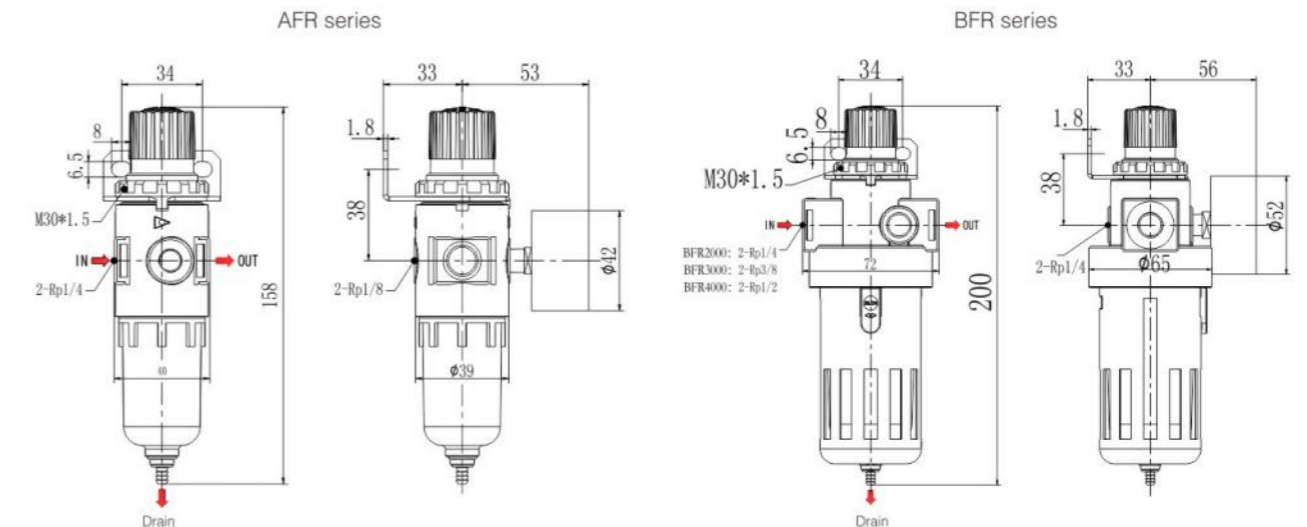
Product feature

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 μm Or 5 μm			
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		60CC
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)			
Weight(kg)	0.3kg	0.6kg		0.6kg

Dimension(mm)



A/B Series Air Regulator

Order Code



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

Symbol



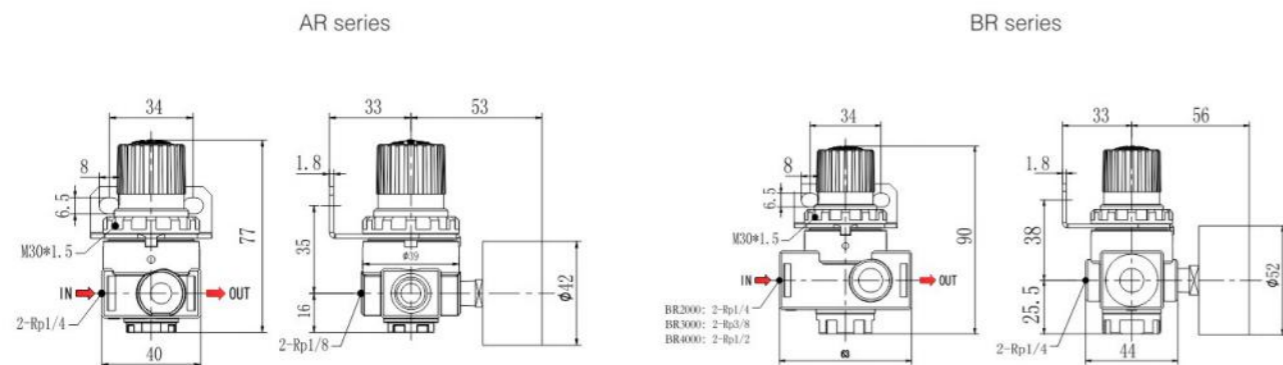
Product feature

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°C(Not Frozen)			
Weight(kg)	0.22kg	0.34kg		

Dimension(mm)



A/B Series Lubricator

Order Code



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

Symbol



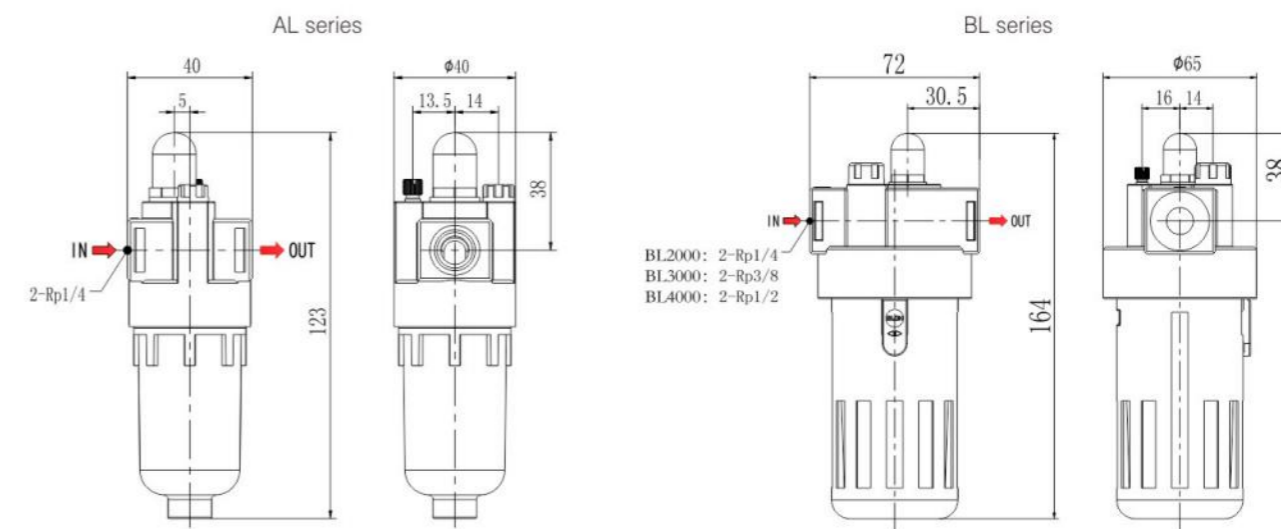
Product feature

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 inspection sheet.
3. The pressure loss and the flow of miststart 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°C(Not Frozen)			
Oil Cup Capacity	25CC	90CC		
Suggested Lubricating Oil	Turbine No. 1 Oil(ISO VG32)			
Weight(kg)	0.17kg	0.44kg		

Dimension(mm)



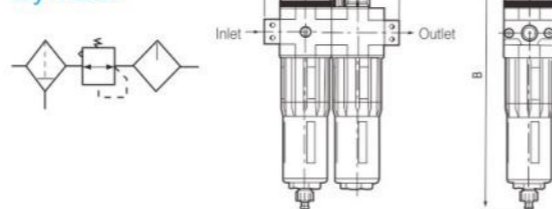
FRC Series FR.L combination



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				1000		
	03				1200		
FRC-MIDI	02	LFR-MIDI	1/4"	1500	2000	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
	03		3/8"	2000			
	04		1/2"	2600			

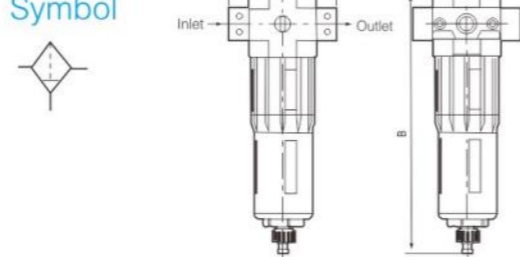
LF Series Air filter



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	40 μm	1900	0.15~1.2	Manual drain type Ambient Temperature: -5~60°C(Not Frozen) Optional filter accuracy 5 μm
	03		2700		
	04		3000		

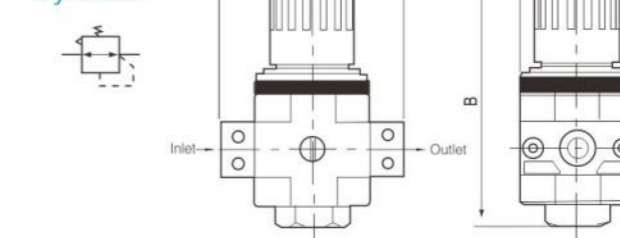
LR Series Air Regulator



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	0.15~1.2	Ambient Temperature: -5~60°C(Not Frozen)
	03	3300		
	04	4000		

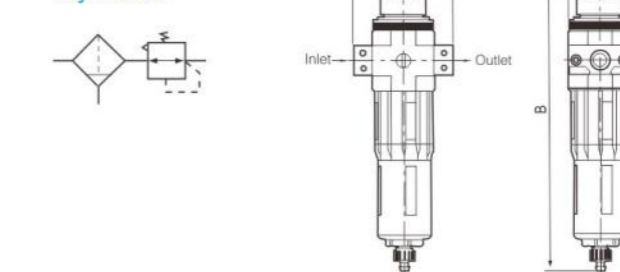
LFR Series Air filter-regulator



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

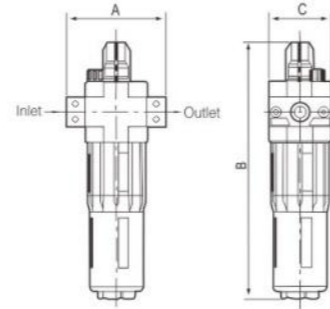
Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
LFR-MINI	01	40 μm	750	0.15~1.2	Manual drain type Ambient Temperature: -5~60°C(Not Frozen) Optional filter accuracy 5 μm
	02		1400		
	03		1600		
LFR-MIDI	02	40 μm	2000	0.15~1.2	Manual drain type Ambient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

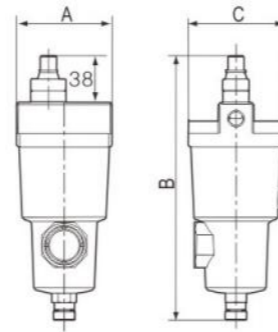
Model	Port Size Rp(PT)	Max. Flow L/min(ANR)	Min.Flow L/min	Pressure Range MPa	Options/Description
LOE-MINI	01 1/8"	1300	3	0.15~1.2	Ambient Temperature: -5~60°C(Not Frozen) Suggested Lubricating Oil: Turbine No. 1 Oil(ISO VG32)
	02 1/4"	2300			
	03 3/8"	2700			
LOE-MIDI	02 1/4"	2800	8		
	03 3/8"	5500			
	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	0.01 μm (Remove 95%)	01/02 1/8 / 1/4"	200	0.15~0.85	Manual drain type D automatic drain type T select with indicator Ambient Temperature: -5~60°C(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.

IR Series Precision Regulator



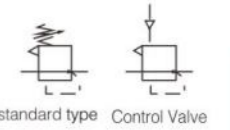
Specifications

Sensitivity	within 0.2% of full span	
Repeatability	within +- 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

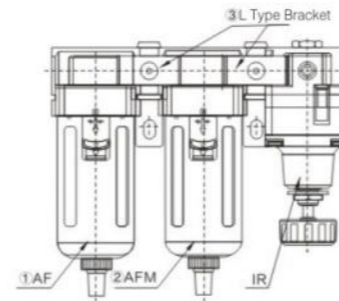


Order Code

IR	3	0	0	0	-	□	02	G	-	R
Series Code Precision Regulator	Body Size 1 IR1000 Series 2 IR2000 Series 3 IR3000 Series	Set Type 0 Basic Model (manual) 1 Control Valve (ir2000, ir3000 Series)	Pressure Range IR1000/2000 series setting 0 0.005-0.2MPa 1 0.01-0.4MPa 2 0.01-0.8MPa IR3000 Series Setting 0 0.01-0.2MPa 1 0.01-0.4MPa 2 0.01-0.8MPa	Pipe Thread Type R blank NPT Rc G Rc	Bracket Code Nil With Bracket J Without Bracket	Port Size 01 1/8(ONLY IR1000) 02 1/4(ONLY IR2, 3000) 03 3/8(ONLY IR3000) 04 1/2(ONLY IR3000)	Accessories Blank B With Bracket G With Gauge	Remark Blank R Standard Mounting Pressure Gauge, bracket Label Stick In Back 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

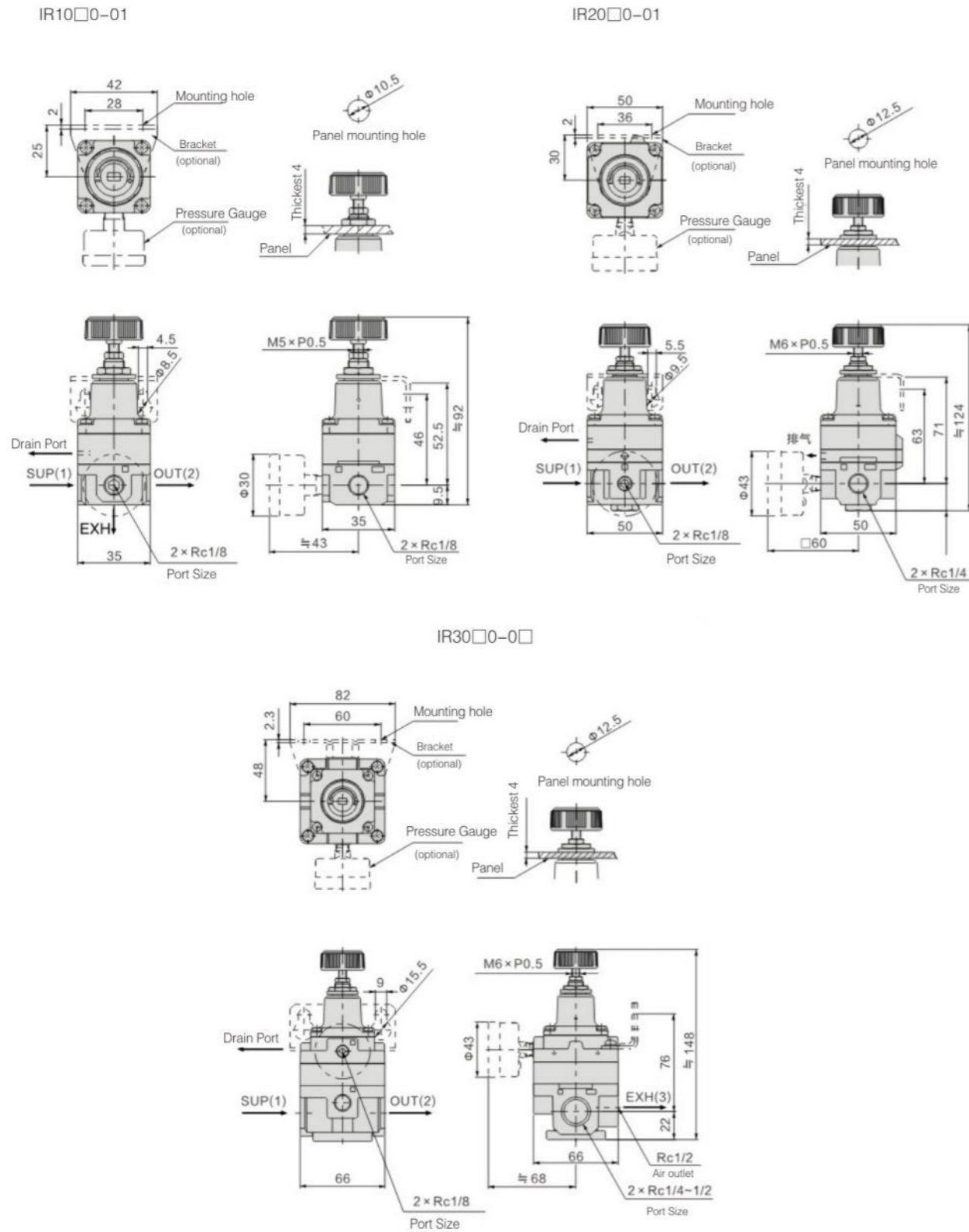
Model	Basic Model		
	IR10□0	IR20□0	IR30□0
Max supply pressure	MAX.1.0MPa		
Min supply pressure	Set Pressure +0.05mpa		
Pressure Range	IR1000:0.005-0.2MPa	IR2000:0.005-0.2MPa	IR3000:0.01-0.2MPa
	IR1010:0.01-0.4MPa	IR2010:0.01-0.4MPa	IR3010:0.01-0.4MPa
	IR1020:0.01-0.8MPa	IR2020:0.01-0.8MPa	IR3020:0.01-0.8MPa
Input signal pressure	-		
Sensitivity	within 0.2% of full span		
Repeatability	within +- 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)

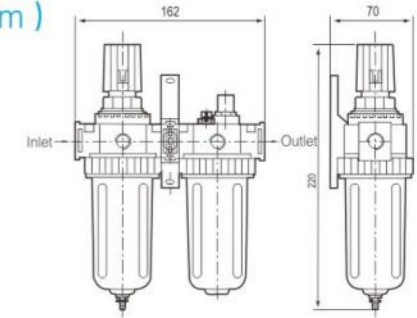
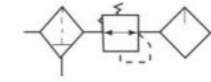


SFC Series Two-point combination

Dimension (mm)



Symbol



Technical Specification

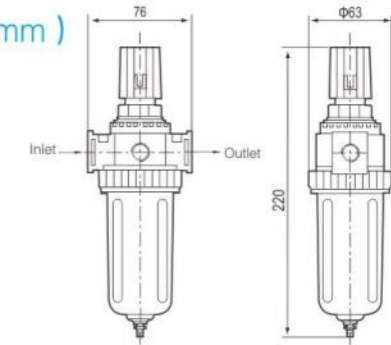
Model	Components		Port Size Rp(PT)	Filter Accuracy	Proof pressure MPa	Pressure Range MPa	Options/Description
	Filter-Regulator	Lubricator					
SFC-200	SFR-200	SL-200	1/4"	40 μm	1.5	0.15~0.85	Ambient Temperature: -5~60°C(Not Frozen) Environment current temperature: Turbine No. 1 Oil(ISO VG32) Optional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

SFR Series Air filter-regulator

Dimension (mm)



Symbol



Technical Specification

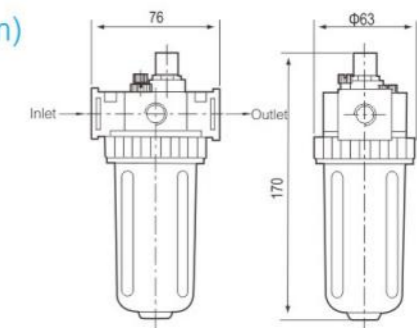
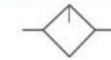
Model	Port Size Rp(PT)	Filter Accuracy	Proof pressure MPa	Pressure Range MPa	Options/Description
SFR-200	1/4"	40 μm	1.5	0.15~0.85	Ambient Temperature: -5~60°C(Not Frozen) Environment current temperature: Turbine No. 1 Oil(ISO VG32) Optional filter accuracy 5
SFR-300	3/8"				
SFR-400	1/2"				

SL Series Lubricator

Dimension(mm)



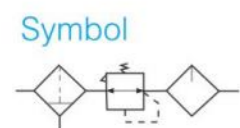
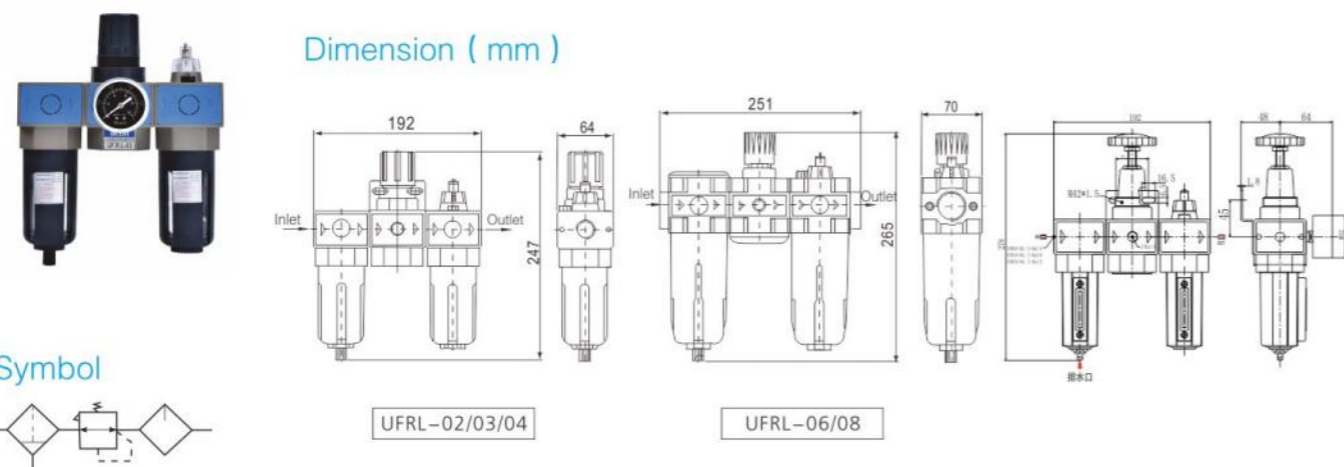
Symbol



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			

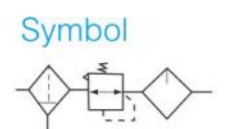
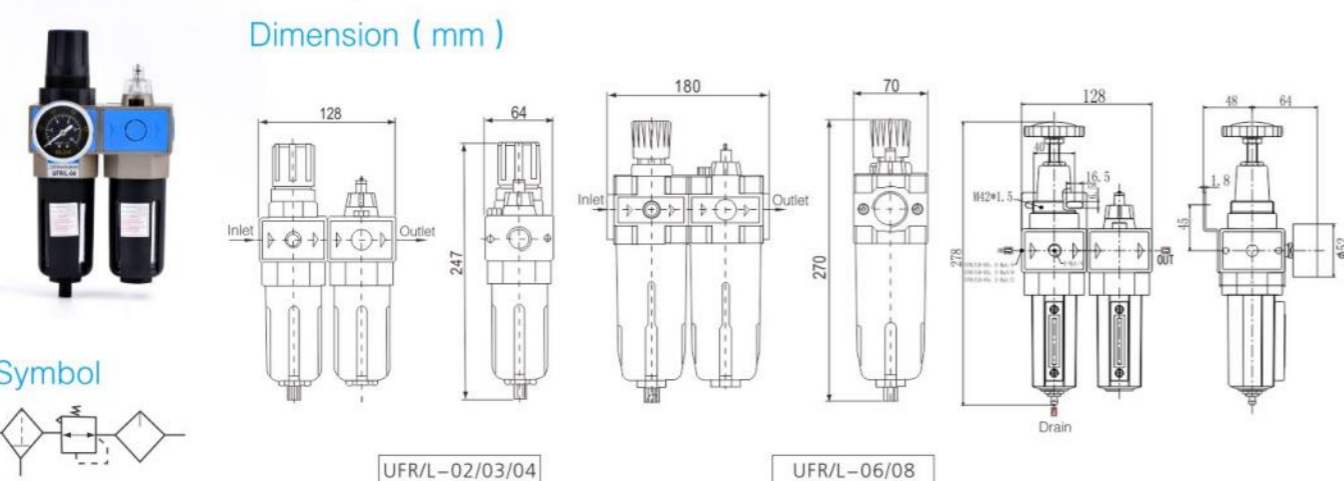
UFRL Series Three-point combination



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 Tem peratur; -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		

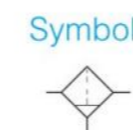
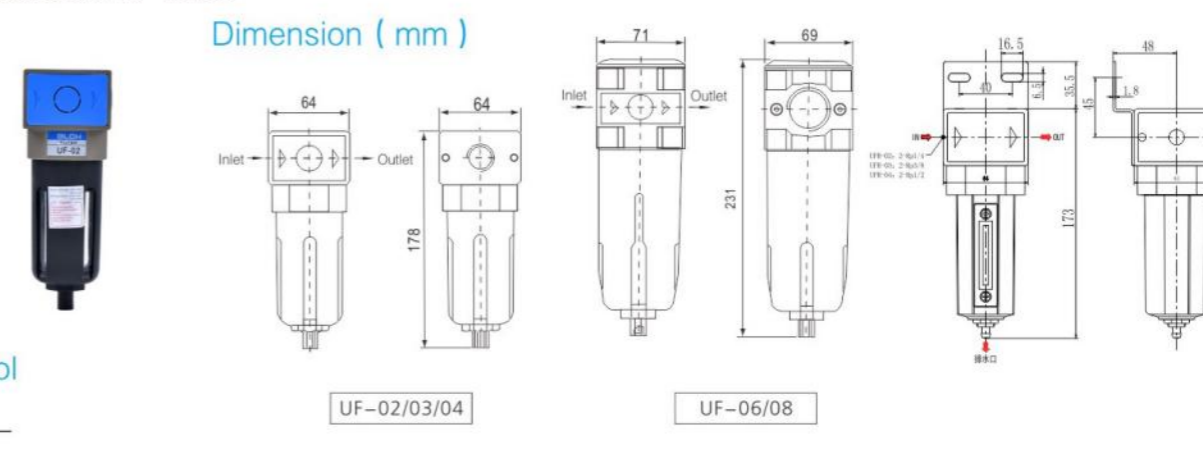
UFR/L Series Two-point combination



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 Tem peratur; -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		

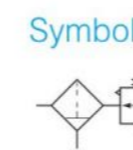
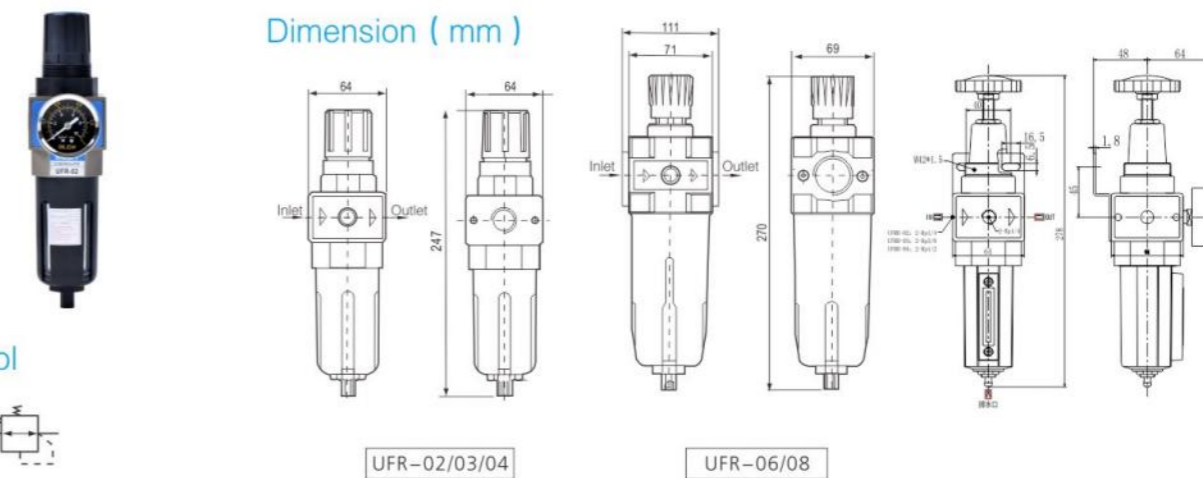
UF Series Air filter



Technical Specification

Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
UF-02	1/4"	40 μ m	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

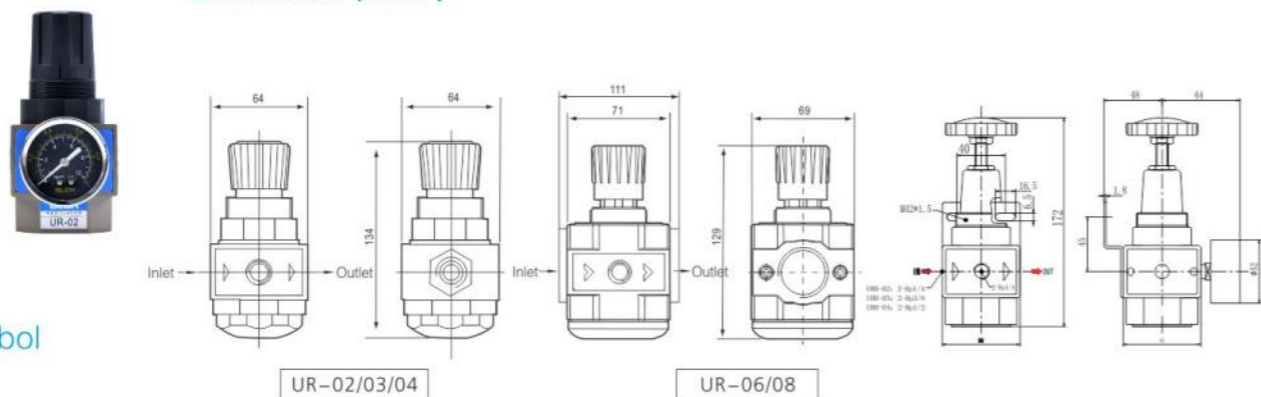


Technical Specification

Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
UFR-02	1/4"	40 μ m	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

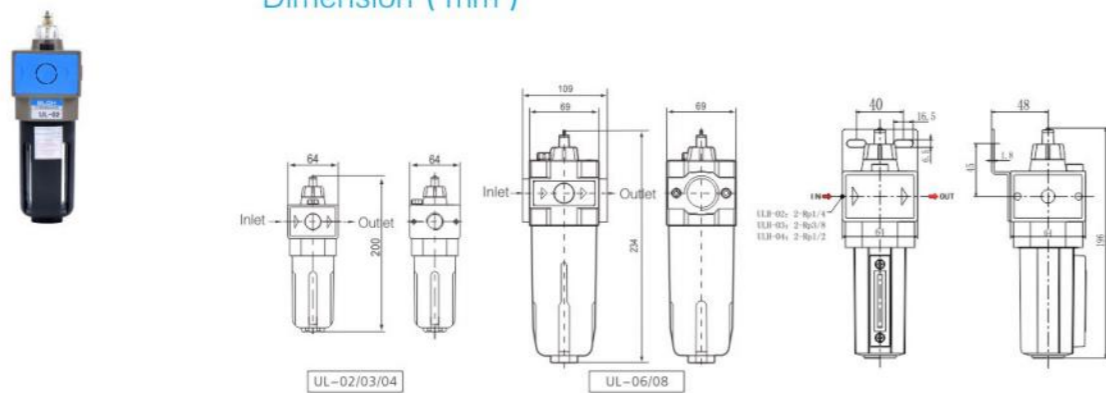


Technical Specification

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 Tem peratur : -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

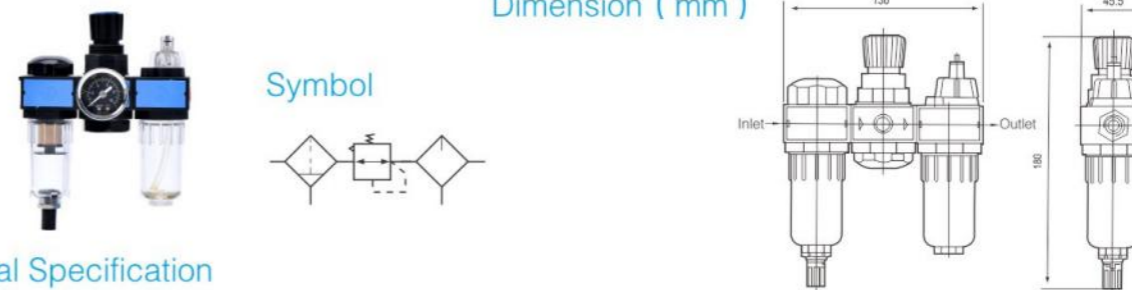


Technical Specification

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 Tem peratur : -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 )

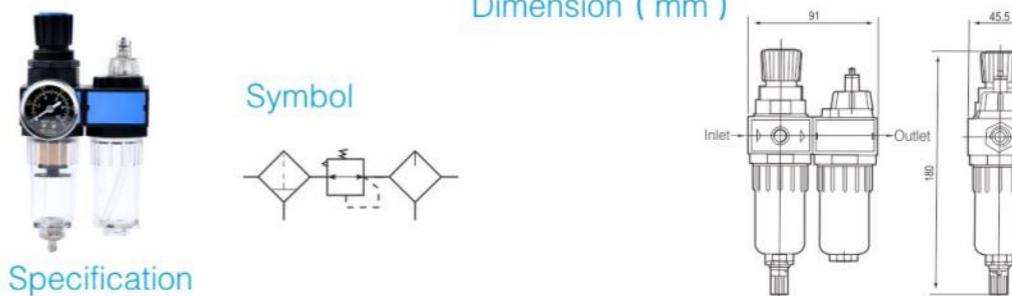


Technical Specification

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 )



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 )



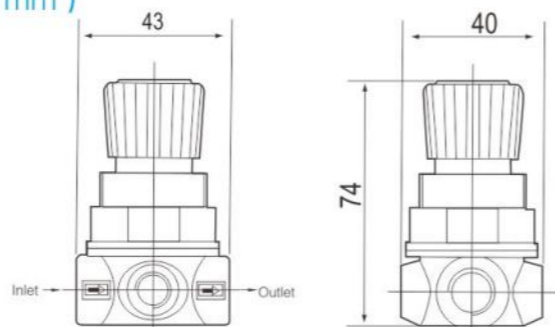
Technical Specification

Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
FR500A-01	1/8"	40 μ m	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



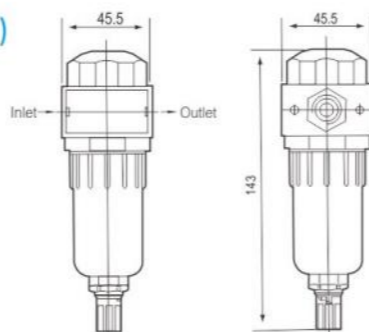
Technical Specification

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



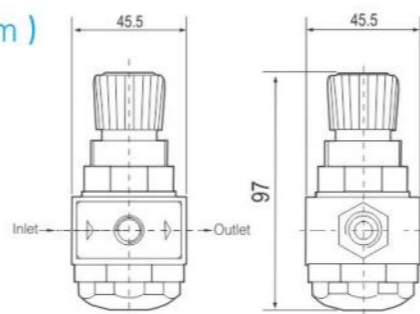
Technical Specification

Model	Port Size Rp(PT)	Filter Accuracy	Max. Flow L/min(ANR)	Pressure Range MPa	Options/Description
F200A-01	1/8"	40 μ m	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



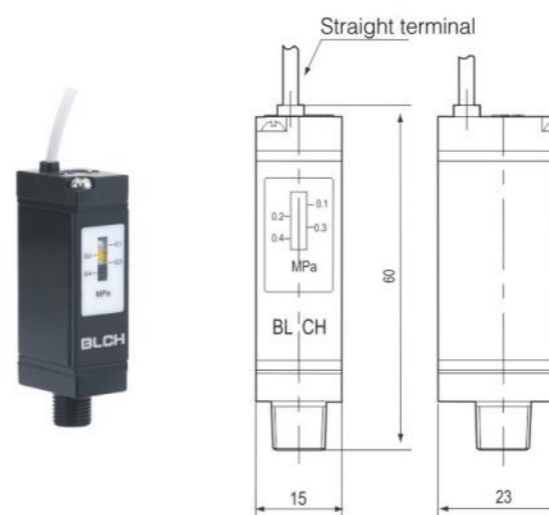
Product feature

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

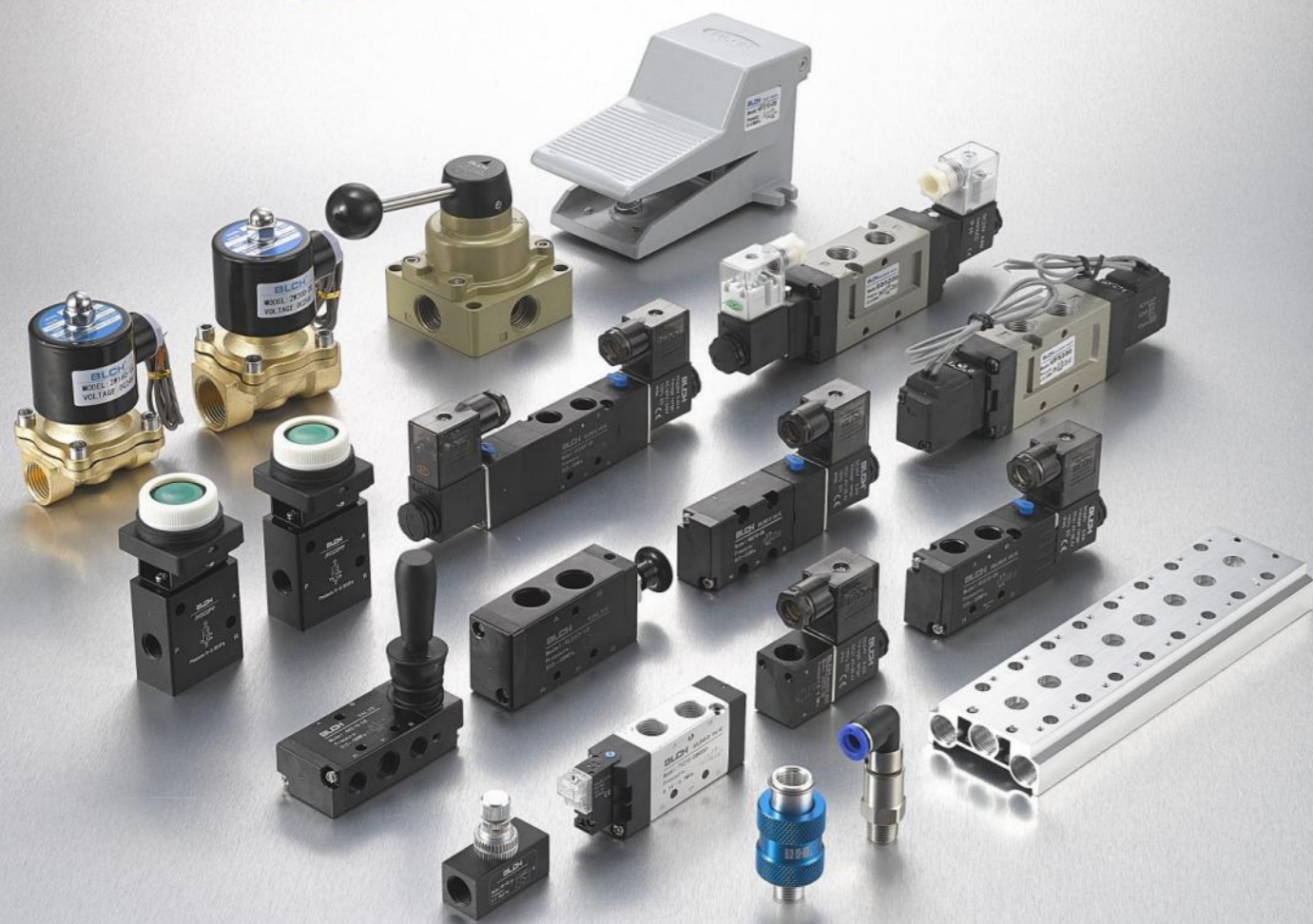
Pressure switch feature

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



# BLCH CONTROL COMPONENTS

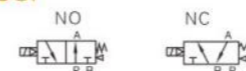
控制元件



## 3V series Solenoid Valve



### Symbol



### Technical Specification

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

### Order Code

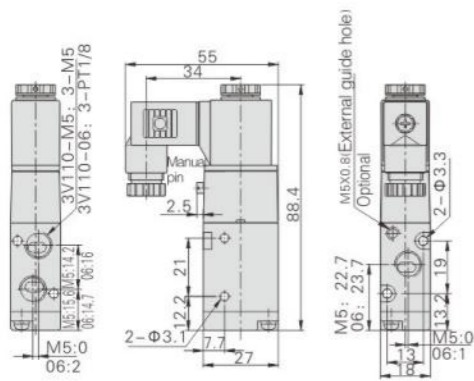
3V 2 10 08 NO □ □ □

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 06 1/8" 08 1/4" 10 3/8" 15 1/2"	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
		20:Double positions double electric control					

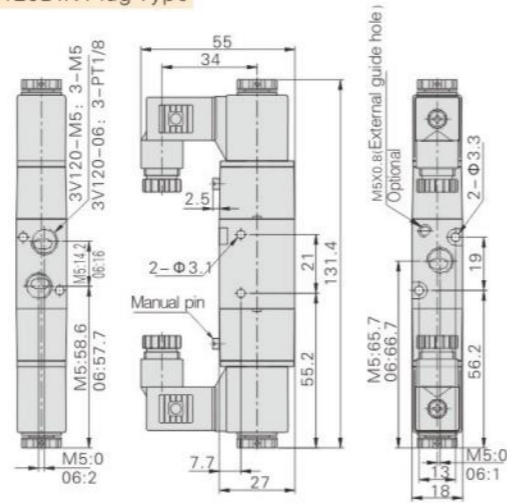
Air Source Treatment  
Control Components  
Auxiliary Components  
Executive Components  
Accessories

Dimension ( mm )

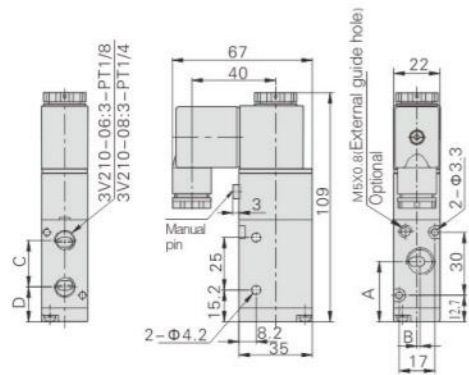
3V110DIN Plug Type



3V120DIN Plug Type

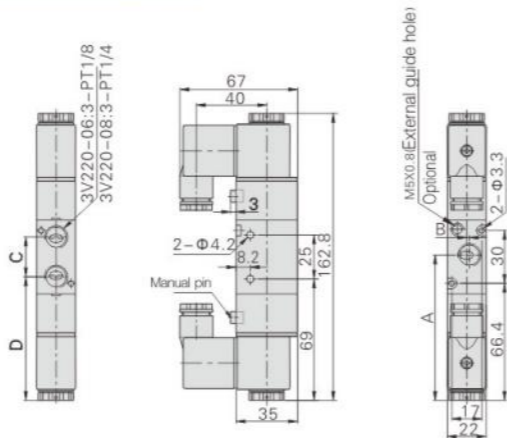


3V210DIN Plug Type



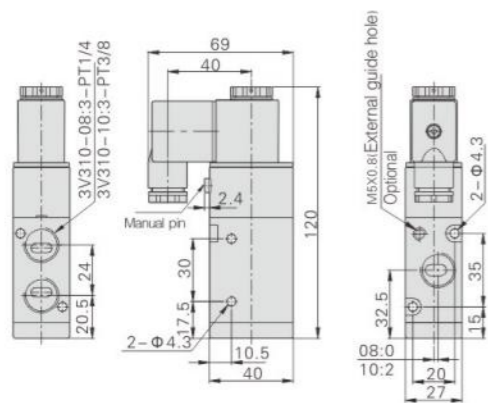
Symbol/type	3V210-06	3V210-08
A	27.7	28.7
B	0	1.5
C	22	22.5
D	16.7	16.5

3V220DIN Plug Type

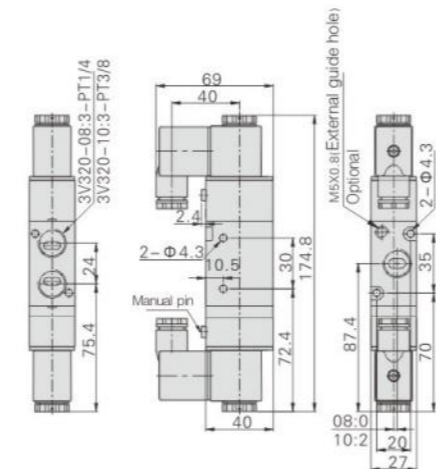


Symbol/type	3V220-06	3V220-08
A	81.4	82.4
B	0	1.5
C	22	22.5
D	70.4	70.2

3V310DIN Plug Type



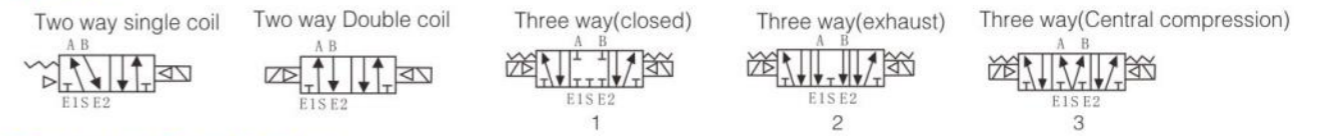
3V320DIN Plug Type



4V series Solenoid Valve



Symbol



Technical Specification

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

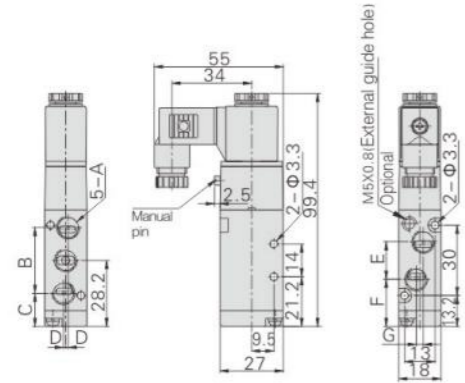
Order Code

4V 2 10 08 □ □ □

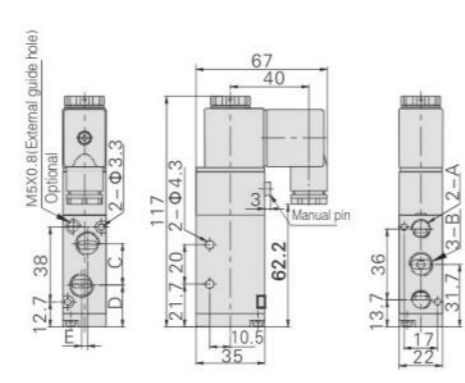
model code	Series	Electric control mode	Port Size	Voltage	Connecting Type	Port Size
4V: 5/2 way 5/3 way	1.100 series 2.200 series 3.300 series 4.400 series	10:Double positions single electric control 20:Double positions double electric control 30C:Three positions double electric control closed type 30E:Three 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 )

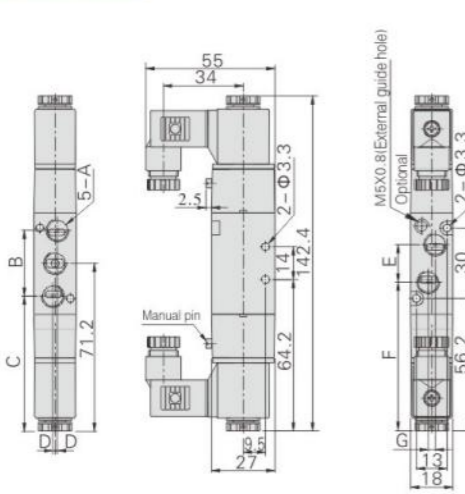
4V110DIN Plug Type



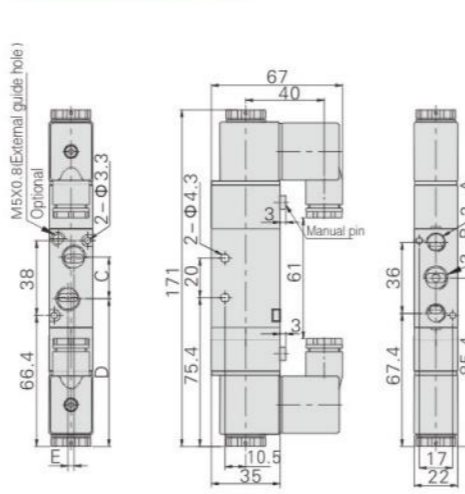
4V210DIN Plug Type



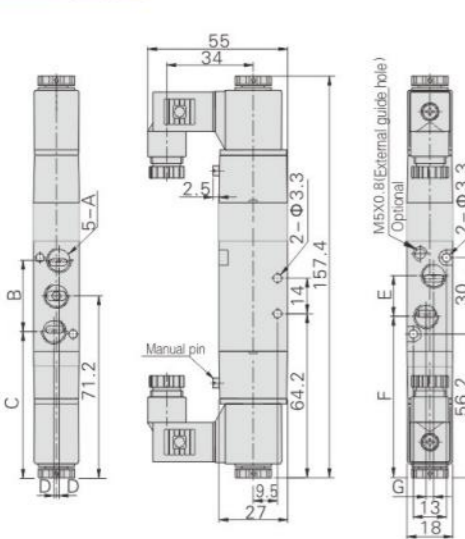
4V120DIN Plug Type



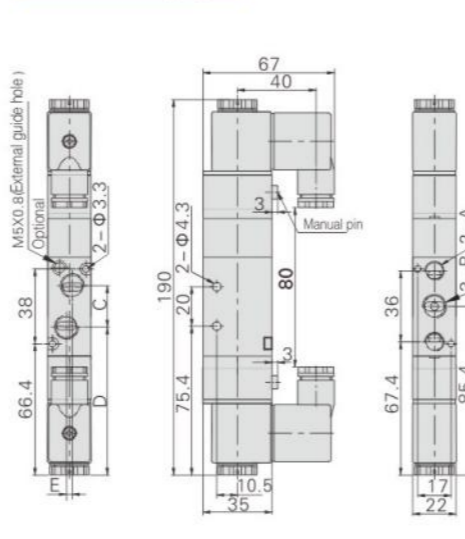
4V220DIN Plug Type



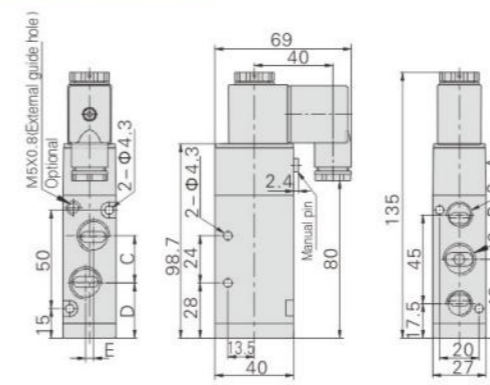
4V130DIN Plug Type



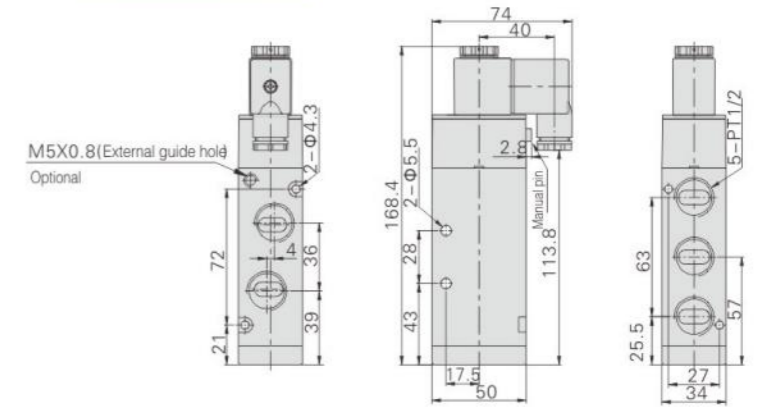
4V230DIN Plug Type



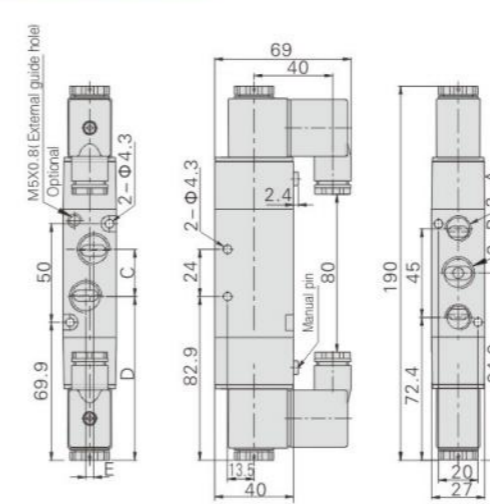
4V310DIN Plug Type



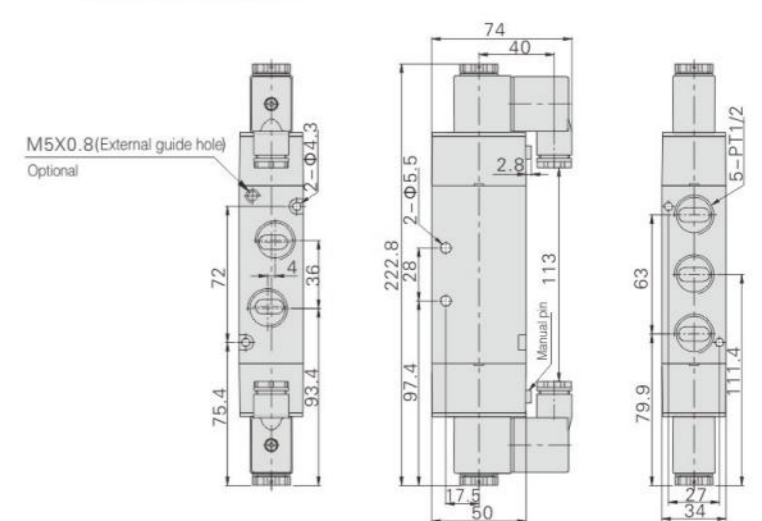
4V410DIN Plug Type



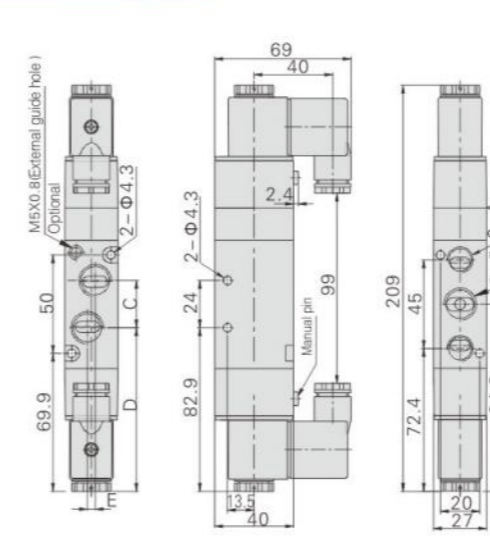
4V320DIN Plug Type



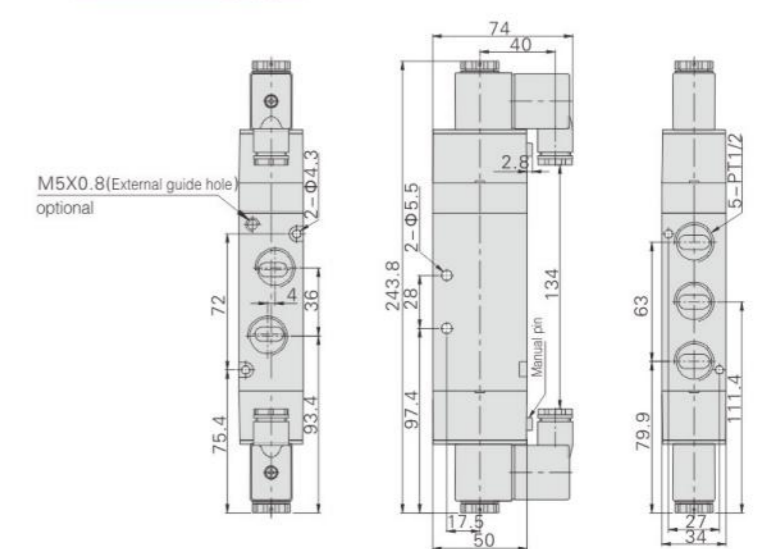
4V420DIN Plug Type



4V330DIN Plug Type



4V430DIN Plug Type



6V series Solenoid Valve

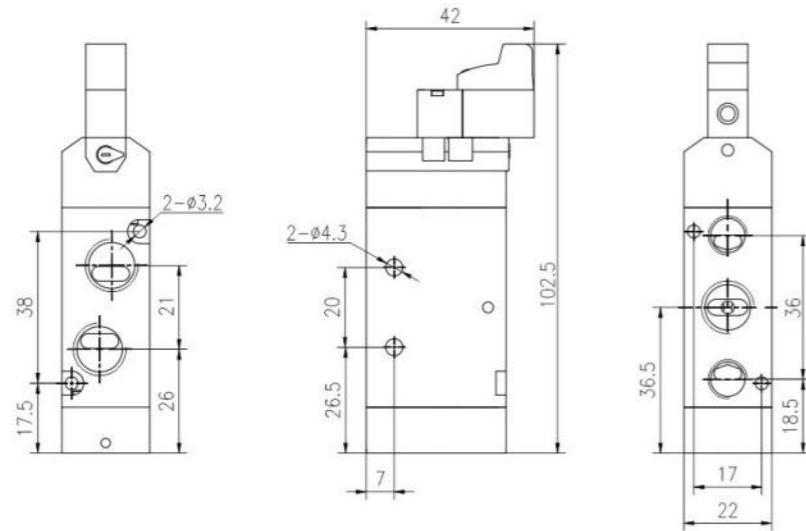
Symbol



Technical Specification

Model	Port Size	Positions	Max. Operating Frequency	Response time (ms/0.5 Mpa Time)	Pressure Range	Working Temperature	Working Medium	Action Mode	Energy consumption value	Pressure Range	Protection level	Heat resistance grade	lubrication
110	G1/8	5/2 way	5	20	0.15~0.7MPa	-5~60°C (Not Frozen)	Air	Internal Pilot Type	1.2W (optional)	AC: ± 15% DC: ± 10%	Dustproof	B	No need
			5										
		5/3 way	3										
			3										
			3										
210	G1/4	5/2 way	5										
			5										
210	G1/4	5/3 way	3										
			3										
		3	3										
			3										

Dimension ( mm )



4M series Solenoid Valve

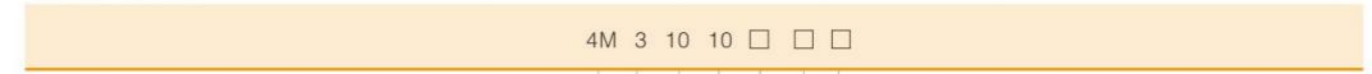
Symbol



Technical Specification

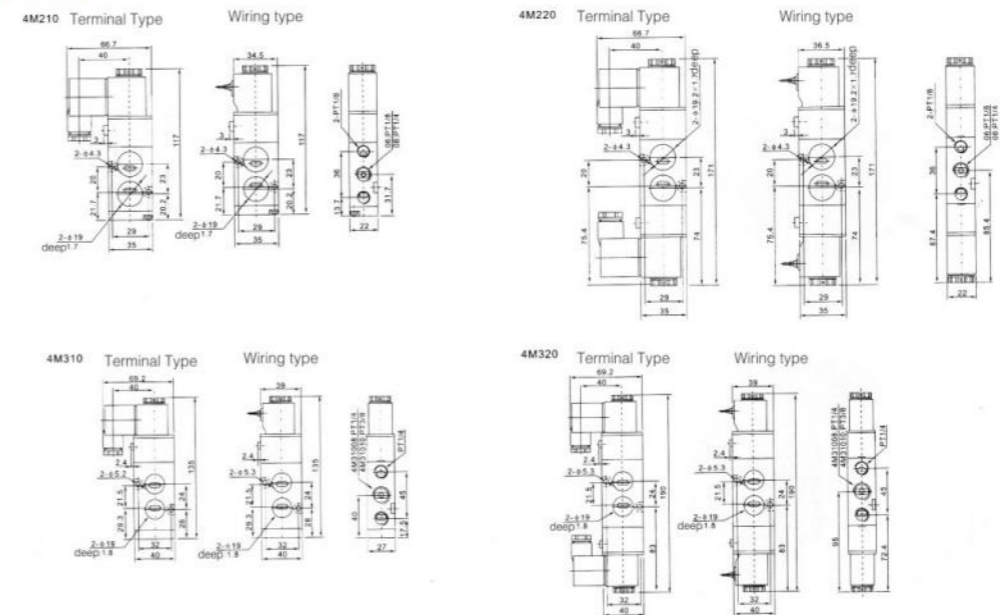
Model	Port Size Rc(G)	Coil and Postions	Ways	Pressure Range MPa	
4M210	06	Single coil double positions	5/2 way	0.15~0.8	
	08				1/4"
4M220	06	Double coils double positions	5/2 way		
	08				1/4"
4M310	08	Single coil double positions	5/2 way		
	10				3/8"
4M320	08	Double coils double positions	5/2 way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

Order Code



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

Dimension ( mm )



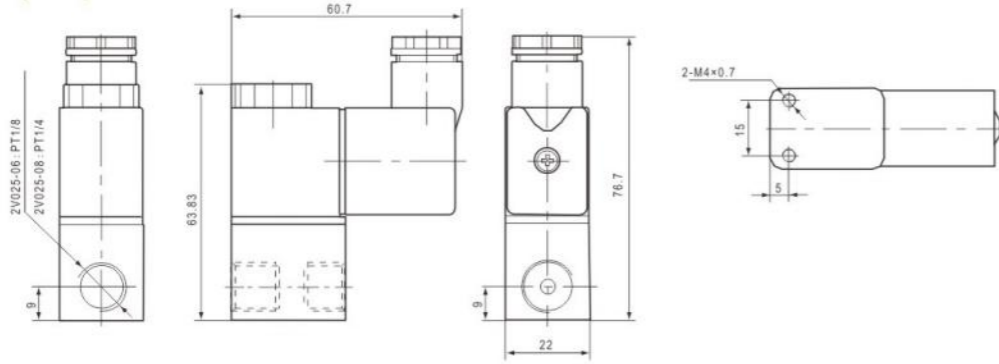
2V series Solenoid Valve



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)



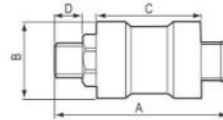
Solenoid Valve Coil



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	MS:Aluminum	Port Size 06:1/8"	Thread Type 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"	

Dimension(mm)

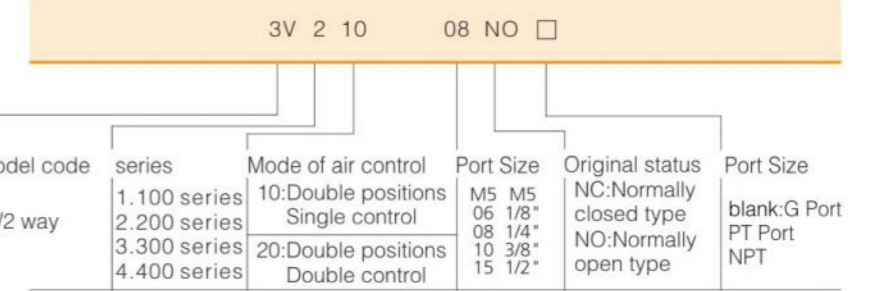
Model	A	B	C	D
HSV-08SF	59	26	32	11.3
HSV-10SF	59	31	32	11.3
HSV-15SF	91	39	49	12

Technical Specification

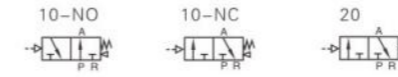
Model	HSV-06SF/SS/FF	HSV-08SF/SS/FF	HSV-10SF/SS/FF	HSV-15SF/SS/FF
Fluid	Air			
Port Size	1/8"	1/4"	3/8"	1/2"
Proof Pressure	0~1.0MPa			
Working temperature range	-5~60°C(Not Frozen)			
Main Material	Body HSV: Aluminum Alloy BHSV: Brass			
	O ring NBR			

3A series Air Control Valve

Order Code



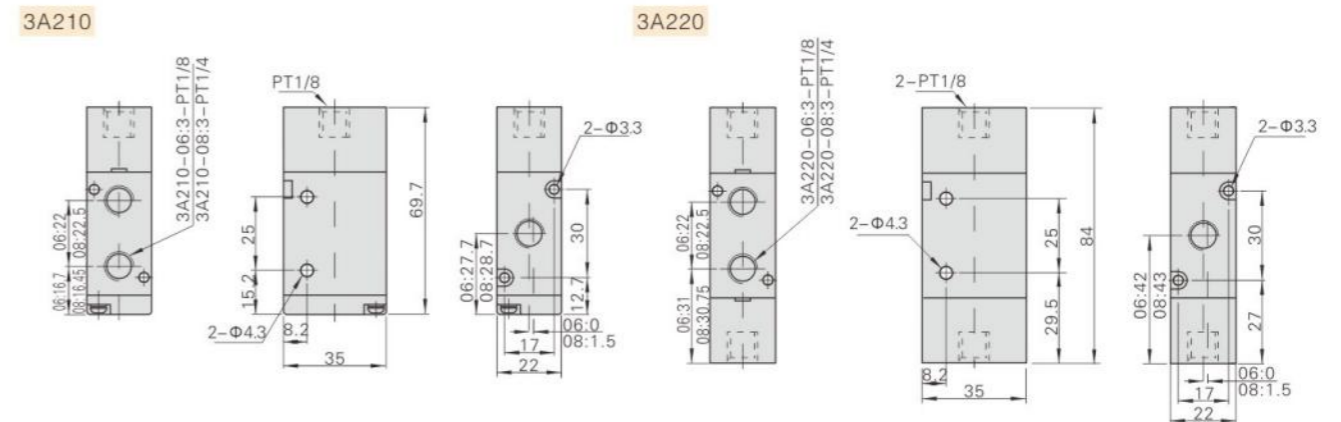
Symbol



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)



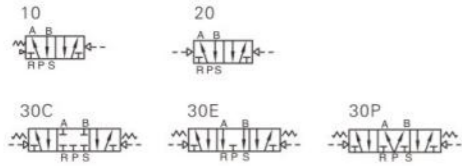
4A series Air Control Valve



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



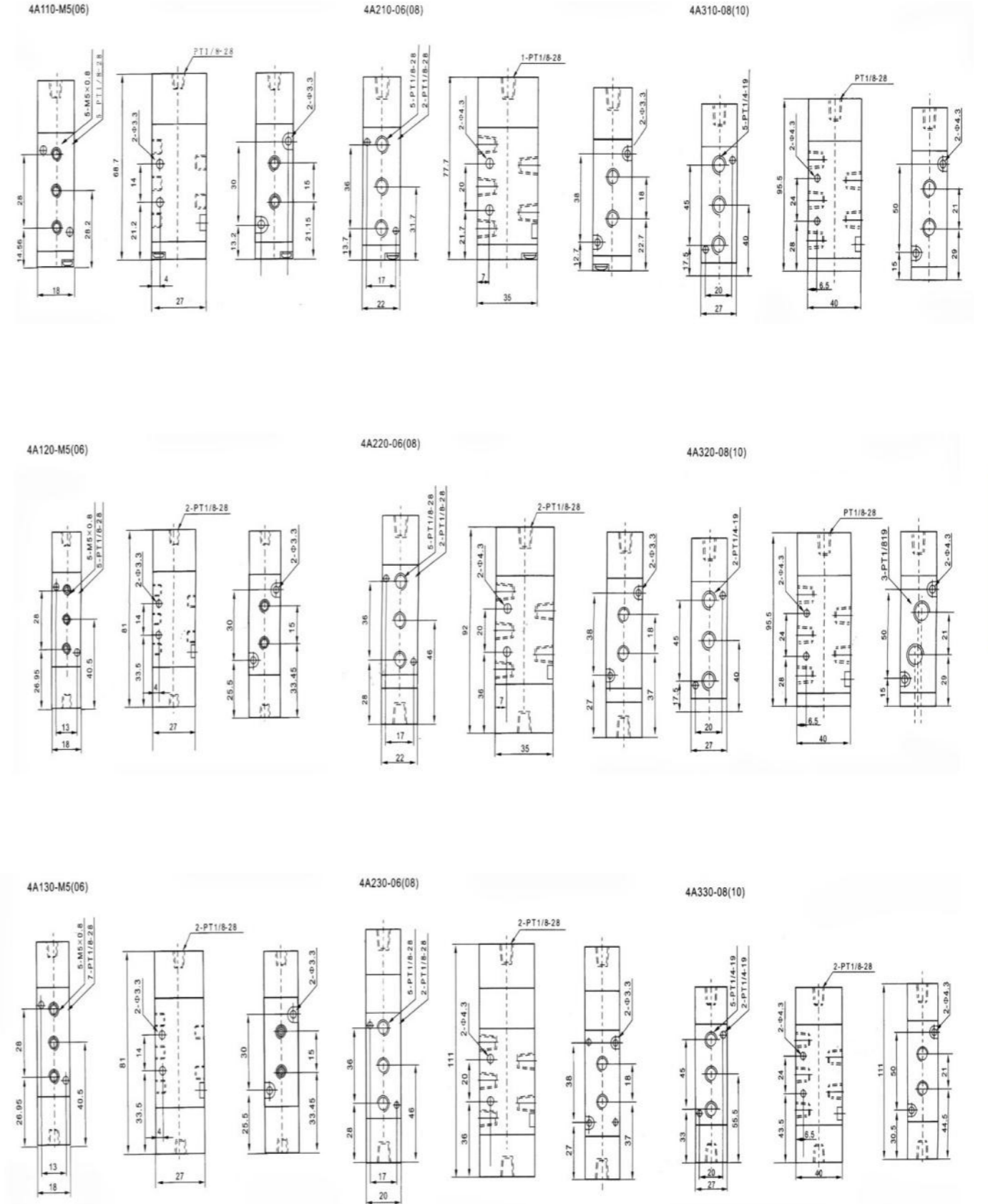
Order Code

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

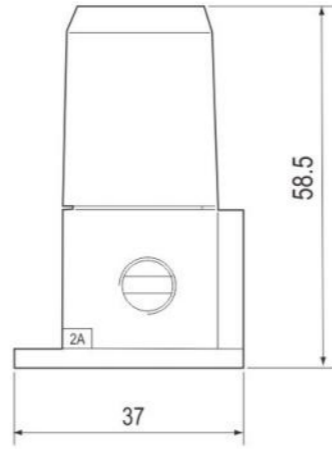
Technical Specification

Model	Port Size Rc(G)	Switching Mode	Ways	Working pressure range MPa			
4A110	M5 06	Air	3/2 way	0.15~0.8			
4A120	M5 06						
4A210	06 08						
4A220	06 08						
4A310	08 10						
4A320	08 10						
4A410	15						
4A420	15						
4A130	M5 06				5/3 way		0.15~0.8 C:Closed Type E:Exhaust Type P:Pressurized Type
4A230	06 08						
4A330	08 10						
4A430	10 15						



### VT307 series Solenoid Valve

Dimension(mm)



#### Technical Specification

Model	Using Fluid	Pressure Range	Port Size	Effective cross sectional area ( CV value )	Tripod
VT307-□△-01	Compressed Air	0~0.9Mpa(0~9kgf/cm <sup>2</sup> )	1/4 1/8	3.9(0.21)	DXT152-25-1A
VT307-□△-02					

□-Means using voltage △-Means mode of power connection  
G=Direct outlet type

Ordering example:Order 3/2 way solenoid valve  
Voltage:110VAC,Direct outlet type,Port size 1/8  
The right model

- 3=110VAC
- 4=22VAC
- 5=24VDC
- 6=12VDC

#### Technical Specification

Working Medium	Compressed air, inert gas
Switch mode	Normal closed or normal open
environment and fluid temperature	-5~60°C(Not Frozen)
Reaction time	Maximum 20ms
Max operating frequency	10 times/second
lubrication	No need
Manual operation	Button type without lock
Shock resistance	15G/5G(40~1000Hz)
Seals	Dust proof

#### Coil specification

Connection mode	Direct outlet type	
Connection mode	Alternating current:110V,220V(50Hz) Direct current: 12V,24V	
Voltage variation range	-15%~+10% of rated voltage	
Insulation degree	Grade B or equivalent	
Temperature rising	-5~60°C(Not Frozen)	
Power consumption	Alternating current	Start:12.7VA Lasting:7.6VA
	Direct current	4.8W
Over voltage suppressor	Ac: varistor DC: diode	

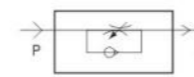
### ASC series Flow Control Valve

#### Technical Specification

Model	ASC -06	ASC -08	ASC -10	ASC -15
Working Fluid	Air			
Port Size	1/8"	1/4"	3/8"	1/2"
Pressure Range	0~1.0MPa			
Temperature Range	-5~60°C(Not Frozen)			
Main Material	Body	Aluminum alloy		
	Oring	NBR		

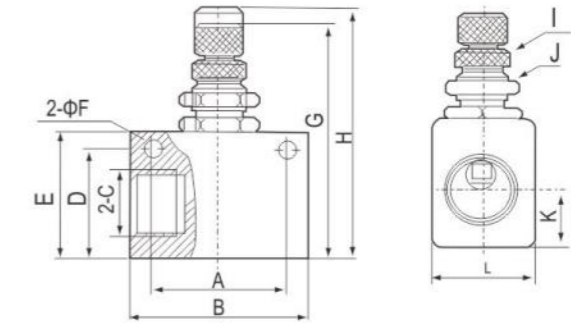


#### Symbol



#### 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

Model	RE-01	RE-02	RE-03	RE-04
Working Fluid	Air			
Port Size	1/8"	1/4"	3/8"	1/2"
Pressure Range	0~1.0MPa			
Temperature Range	-5~60°C(Not Frozen)			
Main Material	Body	Aluminum alloy		
	Oring	NBR		

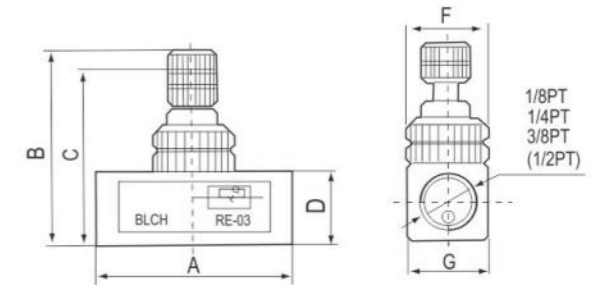


#### Symbol



#### Order Code

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



#### Dimension(mm)

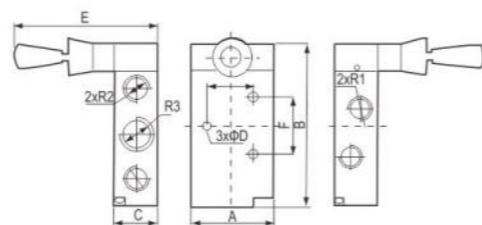
Model	A	B	C	D	F	G
RE-01	43	48	44	19	18	19
RE-02	43	48	44	19	18	19
RE-03	56.4	63	53	25	24	25
RE-04	56.4	63	53	25	24	25

### 3H/4H series Hand Lever Valve

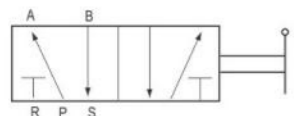


#### Dimension(mm)

Model	φ D	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

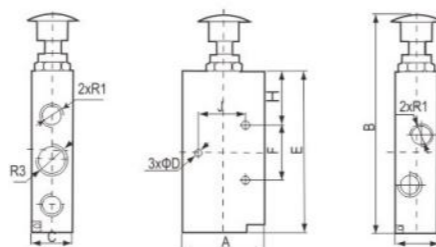
Model	3H210-06/08 4H210-06/08	3H310-08/10 4H310-08/10	3H410-10/15 4H410-10/15
Working Fluid	Air		
Working Mode	Direct Acting type		
CV Value(mm <sup>2</sup> )	16(CV=0.89)	25(CV=1.4)	30(CV=1.68)
Port Size	1/4"	3/8"	1/2"
Working pressure range	0~0.8MPa		
Working temperature range	-5~60°C(Not Frozen)		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

### 3L/4L series Hand Valve

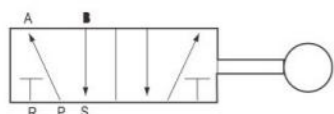


#### Dimension(mm)

Model	φ D	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"

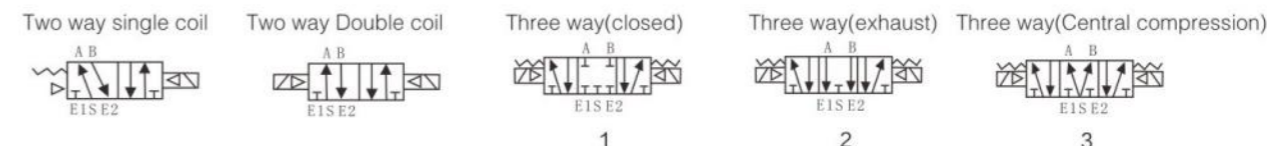
#### Specification

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 <sup>2</sup> )	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

<b>DS3</b>								
<b>VF3</b>	<b>130</b>	<b>4</b>	<b>G</b>	<b>B</b>	<b>02</b>			
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

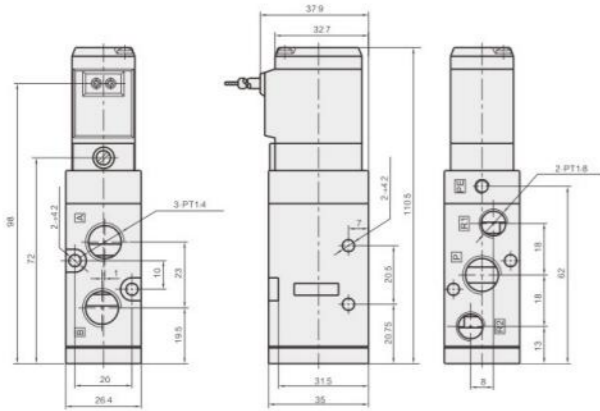
Fluid	Air	Connecting Type	Direct wiring type/DIN socket type
Ambient Temperature	Max 50°C	Standard voltage	AC : 110V, 220V(50Hz) DC:12V,24V
lubrication	No need	Voltage variation range	-15%~+10% of rated voltage
Manual operation	Screwdriver locked type	Insulation over voltage	Grade B or equivalent
Shock 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	Specifications							
	Number of position	Electromagnetic coil	Operating pressure range kgf/cm <sup>2</sup> (Mpa)	Reaction time (ms)	Max operation frequency ( times/second)	Port Size	Effective cross-sectional area mm <sup>2</sup> ( CV value )	Weight (Kg)
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

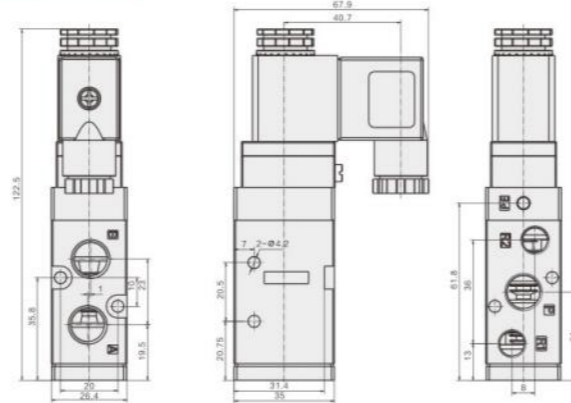


Dimension(mm)

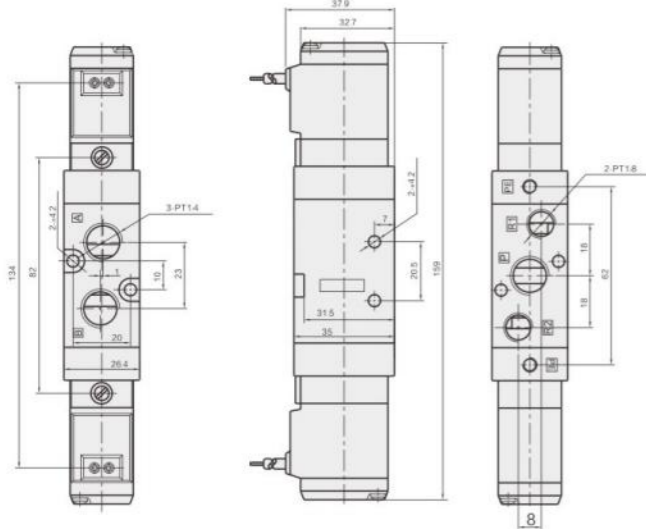
3130 Wiring type



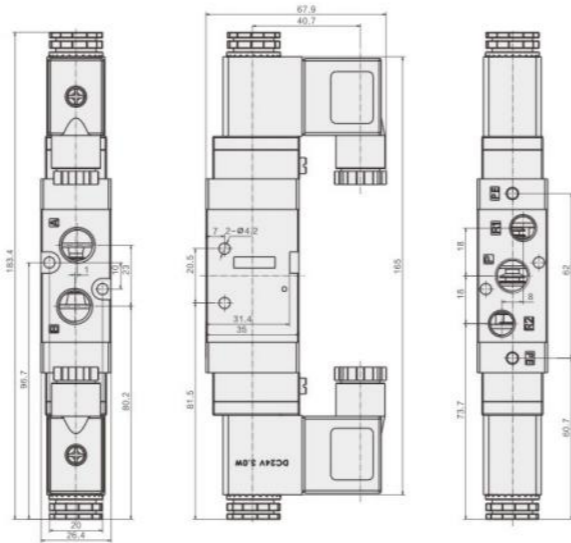
3130 Plug Type



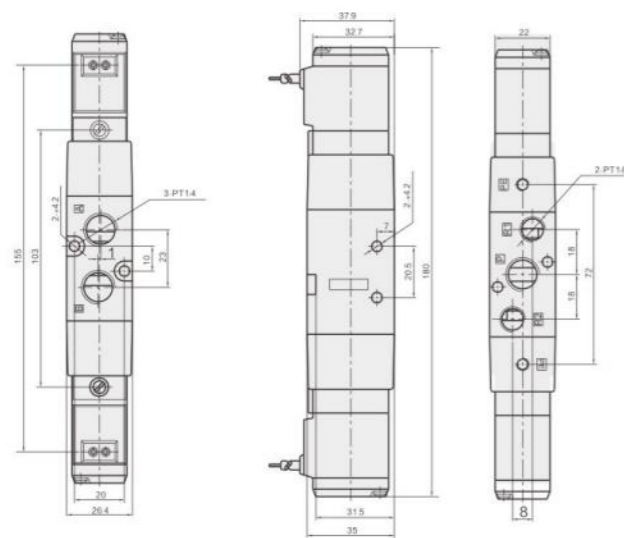
3230 Wiring type



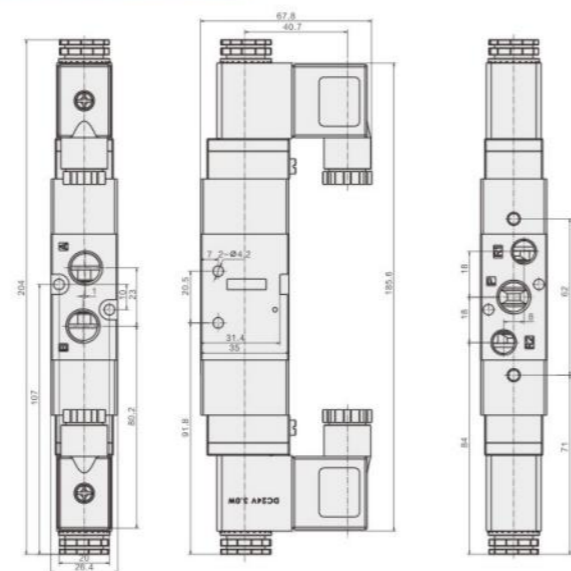
3230 Plug Type



3330/3430/3530 Wiring type



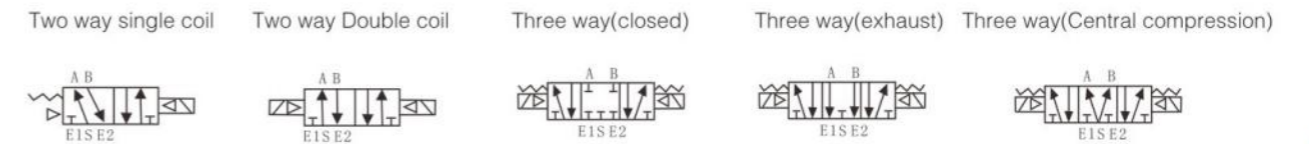
3330/3430/3530 Plug Type



DS5000/VF5000 series Solenoid Valve



Symbol



Order Code

<b>DS5</b>					
<b>VF5</b>	<b>120</b>	<b>4</b>	<b>G</b>	<b>B</b>	<b>03</b>
Series	Coil and position number	Standard voltage	Conductive form	Manual operation	Port Size
	120:5/2 way single coil double position	3: 110VAC	G:Direct wiring type		03: PT3/8
	220:5/2 way double coil double position	4: 220VAC	D:DIN socket type		
	320:5/3 way double coil three-position closed type	5: 24VDC	DZ:DIN socket type with light		
	420:5/3 way double coil three-position exhaust type	6: 12VDC			
	520:5/3 way double coil three-position pressurized type				

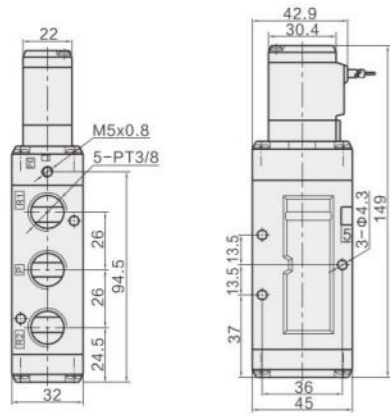
Technical Specification

Fluid	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
Seal	Dust proof	DC consumption	1.8W/2W(With indicator light)
		Over voltage suppressor	Ac: varistor,DC: diode
		Indicator light	Ac: neon lamp,DC: light emitting diode

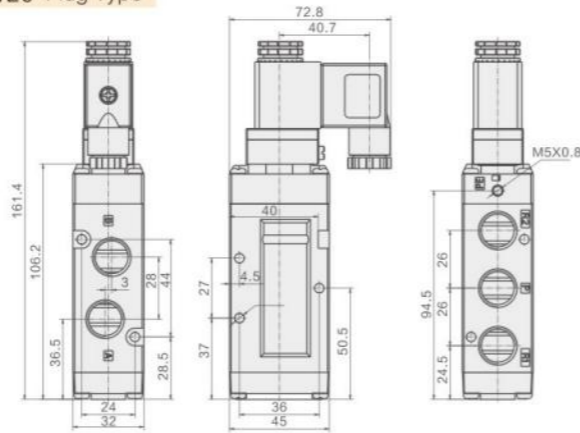
Model	Specifications							
	Number of position	Electromagnetic coil	Operating pressure range kgf/cm <sup>2</sup> (Mpa)	Reaction time (ms)	Max operation frequency (times/second)	Port Size	Effective cross-sectional area mm <sup>2</sup> ( CV value )	Weight (Kgf)
DS5/VF5120-□□B-02	2	Single coil	1.5~9(0.15~0.8)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

Dimension(mm)

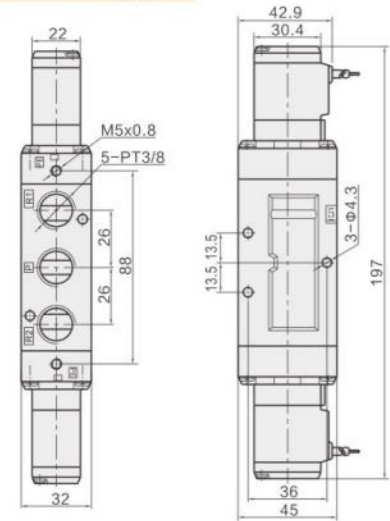
5120 Wiring type



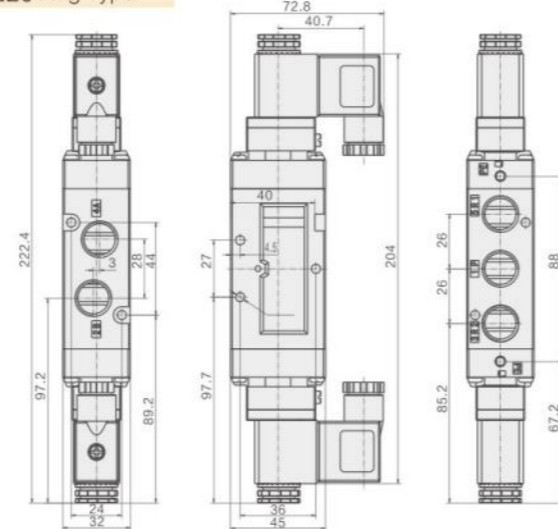
5120 Plug Type



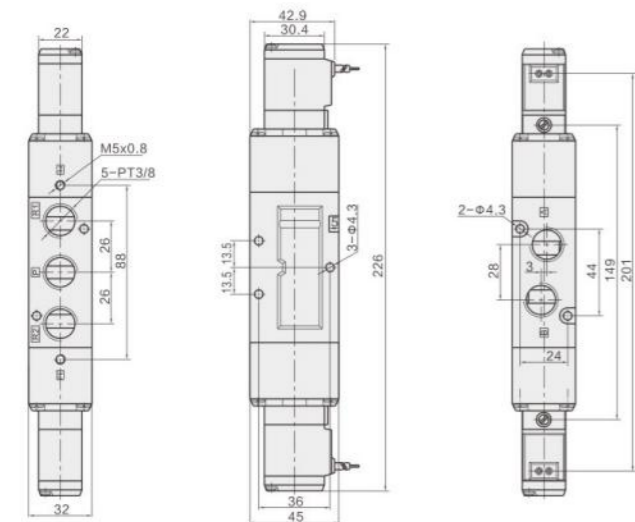
5220 Wiring type



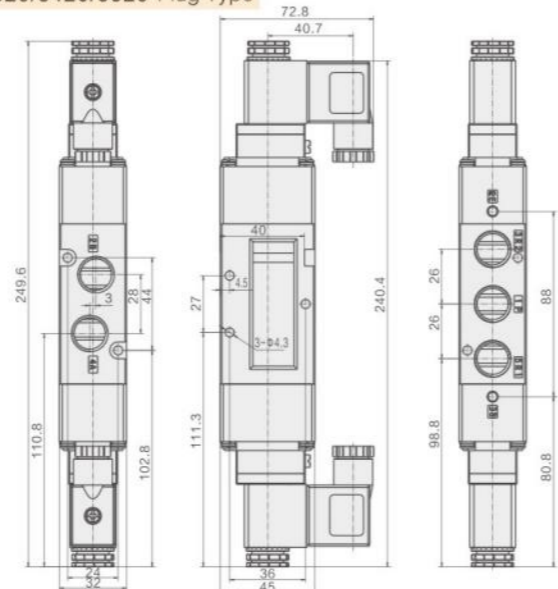
5220 Plug Type



5320/5420/5520 Wiring type



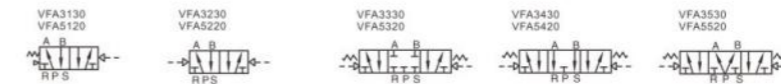
5320/5420/5520 Plug Type



VFA series Air Control Valve



Symbol

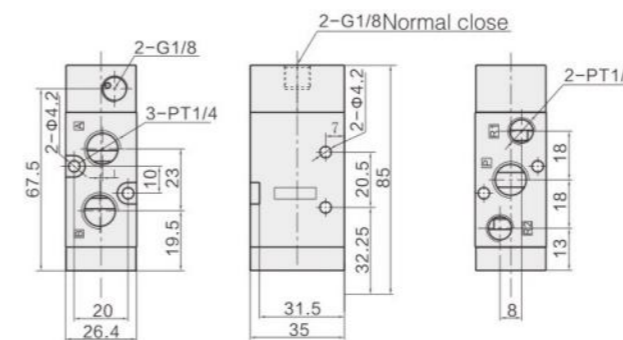


Technical Specification

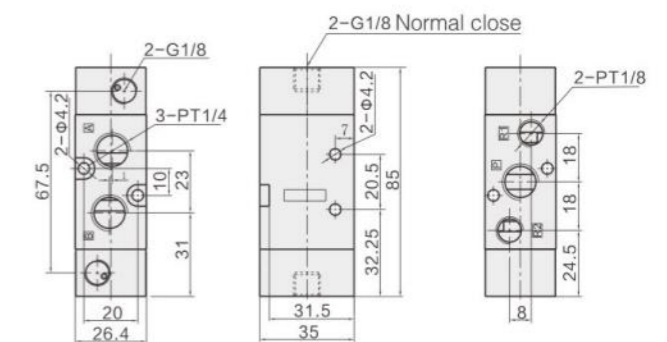
Model	specification				
	Number of positions	Pressure Range MPa(bar)	Air Control Pressure Range Mpa(bar)	Port Size	Effective cross-sectional area mm <sup>2</sup> (CV value)
VFA3130-02	single control 2 positions	0.15~0.9(1.5~9)	*(0.04xP+0.1)~0.9 (0.4xP+1)~9	PT1/4	18(1)
VFA3230-02	double control 2 positions			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)

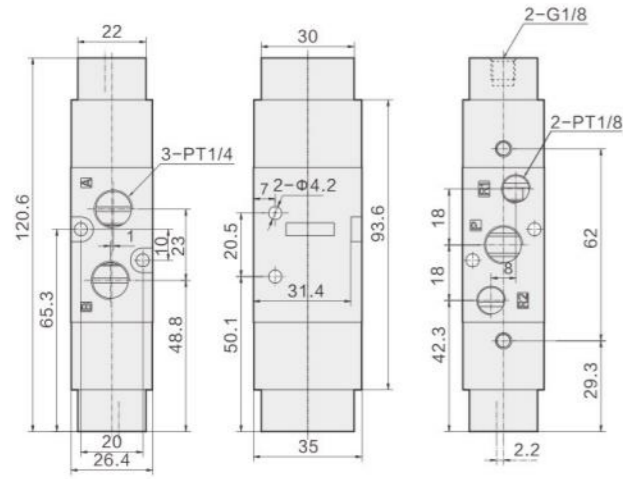
VFA3130



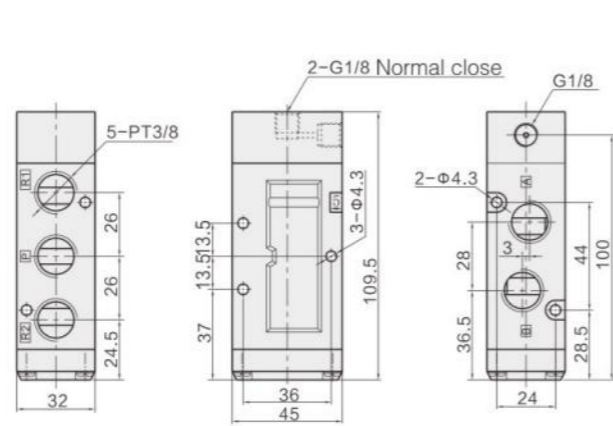
VFA3230



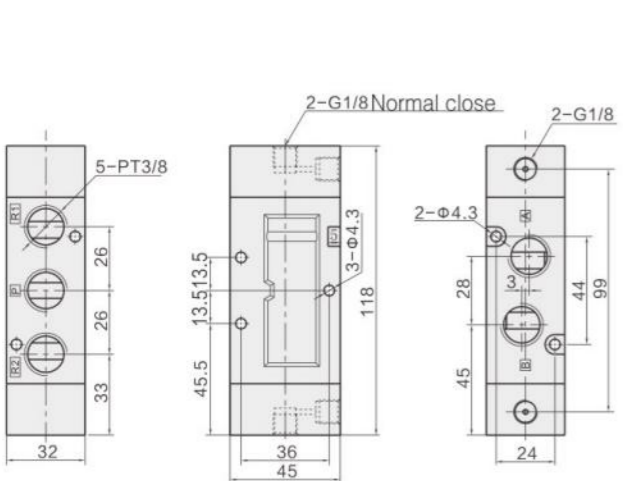
VFA3330/3430/3530



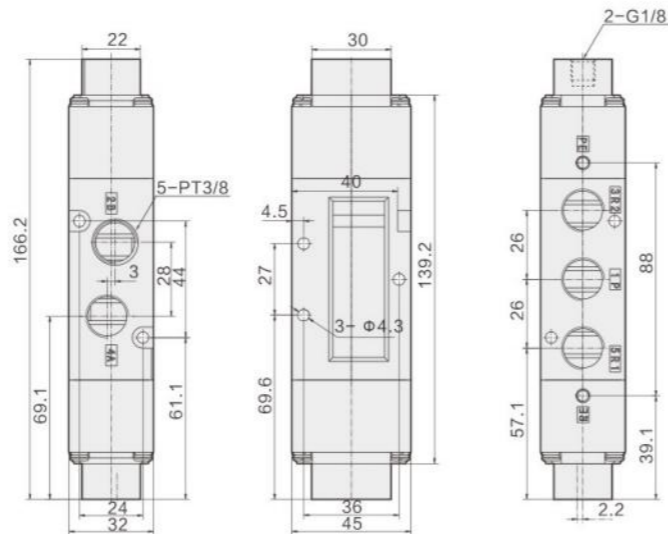
VFA5120



VFA5220



VFA5320/5420/5520



Manifold series



Technical Specification

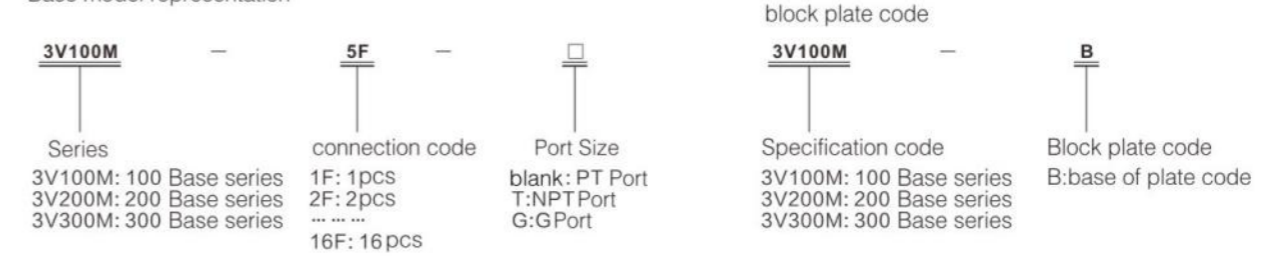
Model	3V100M	3V200M	3V300M
Working Fluid	Air(to be filtered by 40 μm filter element)		
Temperature Range	-5~60°C(Not Frozen)		
Applicable valve body series	3V100Series	3V200 Series	3V300 Series

Product Feature

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

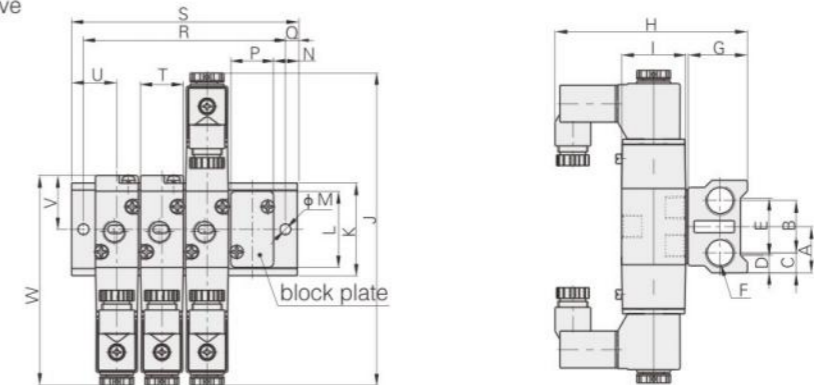
The model expression method includes base and block plate  
Base model representation



- remarks: 1. The base assembly includes base, gasket and screw  
2. The bloke plate assembly includes base, gasket and screw

Dimension(mm)

For 3v series solenoid valve



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	T	U	V	W
3V100M	19.5	22	8.5	7.5	24	G1/4	25	81	27	131.4	39	32	4.5	10	18	5	18	19	22.7	88.4
3V200M	22.5	25	10	8	29	G1/4	25	92.7	35	162.4	45	40	4.5	12	22	6	22	23	27.7	109.4
3V300M	26	28	12	8	36	G3/8	29	99.2	40	174.8	52	47	4.5	13.5	27	6	27	27	32.5	119.9

Model	R															
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
3V100M	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313
3V200M	34	57	80	103	126	149	172	195	218	241	264	287	310	333	356	379
3V300M	42	70	98	126	154	182	210	238	266	294	322	350	378	406	434	462

Model	S															
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
3V100M	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323
3V200M	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391
3V300M	54	82	110	138	166	194	222	250	278	306	334	390	390	418	446	474

2W series Solenoid Valve



Order Code

**2W 025** — **10** — **AC110V** — **D**

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

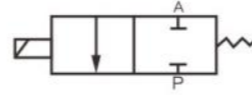
port size  
06:1/8"  
08:1/4"  
10:3/8"  
15:1/2"  
20:3/4"  
25:1"  
35:1 1/4"  
40:1 1/2"  
50:2"

No: Normal opened  
Nc: Normal closed

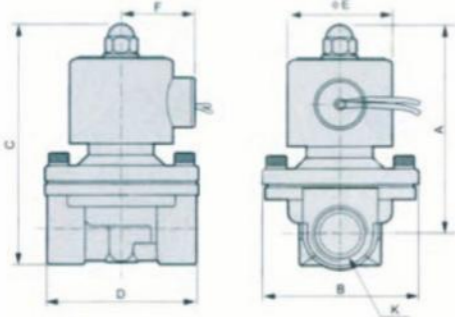
Standard Voltage  
DC12V  
DC24V  
AC24V 50/60Hz  
AC36V 50/60Hz  
AC110V 50/60Hz  
AC220V 50/60Hz  
AC380V 50/60Hz

wiring Form  
empty: Lead wire coil  
D: joint connector  
N: explosion-proof coil  
E: water-proof coil

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 Fluid	Action type	model type	flow diameter mm	Cv value	port size	working fluid viscosity	Operating pressure kgf/cm <sup>2</sup>	Max working pressure kgf/cm <sup>2</sup>	working temperature °C	operating voltage range	body material	seal ring material
2W025-06	air water gas oil	direct current type	normal closed	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**

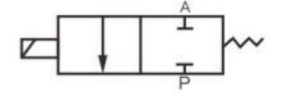
flow diameter  
170:17mm  
200:22mm  
300:30mm  
500:50mm

port size  
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

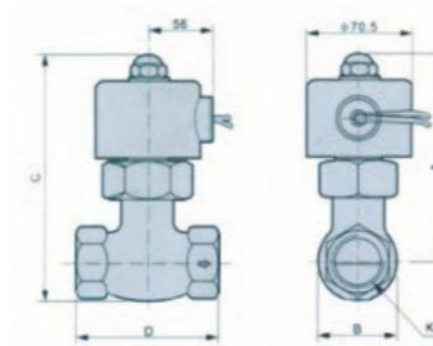
Wiring Form;  
Blank:Lead Wire Type  
F:Join Connector

Symbol



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

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 Fluid	Action type	model type	flow diameter mm	Cv value	port size	working fluid viscosity	Operating pressure kgf/cm <sup>2</sup>	Max working pressure kgf/cm <sup>2</sup>	working temperature °C	operating voltage range	body material	seal ring material
2L170-10	Air, Water, Steam	Guide Drive	Normal Close Type	17	4.8	3/8"	20CST (Below)	1-15	22.5	-5-180°C	±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**

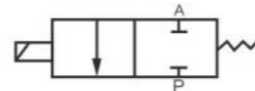
flow diameter  
015:1.2mm  
020:2mm  
025:2.5mm  
040:4.0mm  
160:16mm  
200:20mm  
250:25mm  
350:35mm  
400:40mm  
500:50mm

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

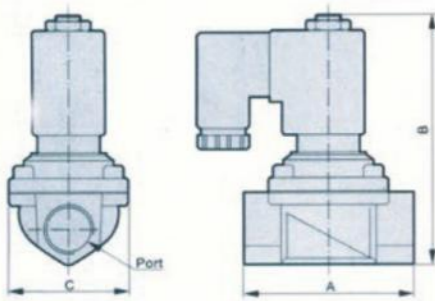
Wiring Form:  
Blank: Lead Wire Type  
D: Join Connector  
E: Blast-proof Coil  
G: Water-proof Coil

Symbol



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

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 Fluid	Action type	model type	flow diameter mm	Cv value	port size	working fluid viscosity	Operating pressure kgf/cm <sup>2</sup>	Max working pressure kgf/cm <sup>2</sup>	working temperature °C	operating voltage range	body material	seal ring material
2S025-06	Air, Water, Steam	Guide Drive	Normal Close Type	2.5	0.23	1/8"	20CST (Below) 50CST (Below)	0-7 Wrtter *0-5 Air *0-7 Oil *0-5 Gas *0-7	10	5-80	± 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**

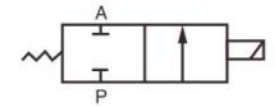
220:Guide Type

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

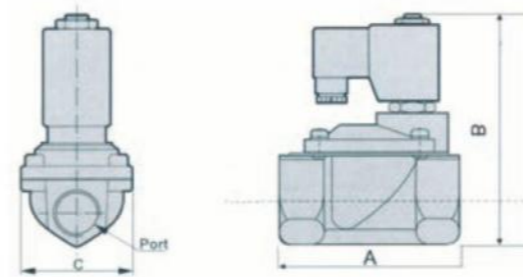
standard voltage  
AC220V  
AC110V  
DC12V  
DC24V

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 Fluid	Action type	model type	flow diameter mm	Cv value	port size	body material	working fluid viscosity	Operating pressure kgf/cm <sup>2</sup>	Max working pressure kgf/cm <sup>2</sup>	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



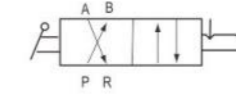
Diaphragm series



HV series Hand Rotary Valve



Symbol



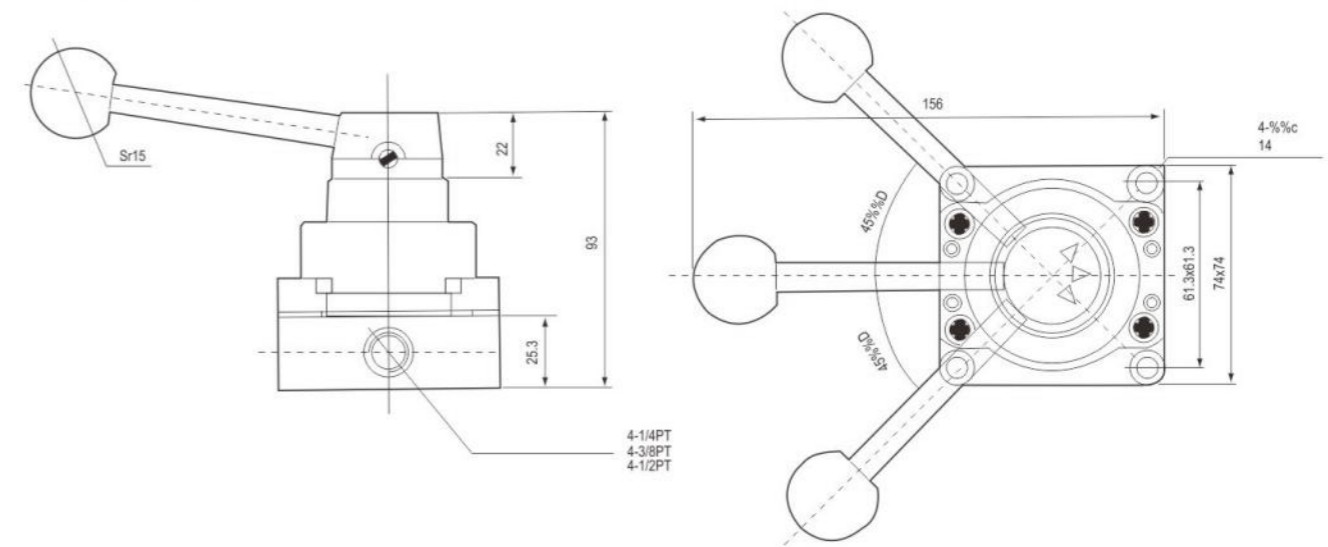
Order Code

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

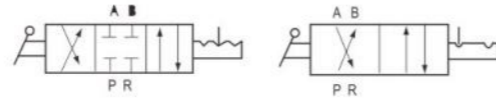
Technical Specification

Model	HV-02	HV-03	HV-04
Working Fluid	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

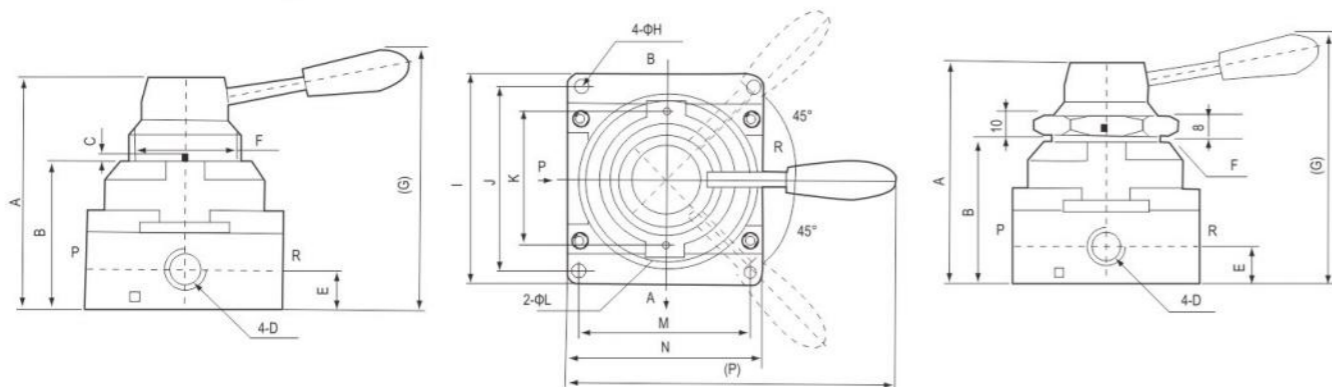
4HV	2	30
Model	Series	Positions
	2:2Series	10:4 port 2 position
	3:3Series	30:4 port 3 position
	4:4Series	

#### Technical Specification

Model	4HV2□□-06	4HV2□□-08	4HV3□□-08	4HV3□□-10	4HV4□□-15	4HV4□□-20
Working Fluid	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 <sup>2</sup> )	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 <sup>2</sup>					
Working temperature range	-5~60°C(Not Frozen)					
Operating Angel	90°C					
Weight(kg)						
Main Material	Aluminum Alloy					
	O ring 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



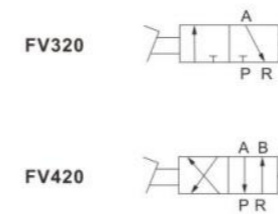
### FV320/420 series Foot Valve



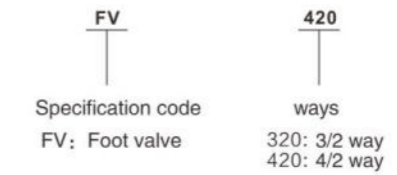
#### Technical Specification

Model	FV320	FV420
Working Fluid	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

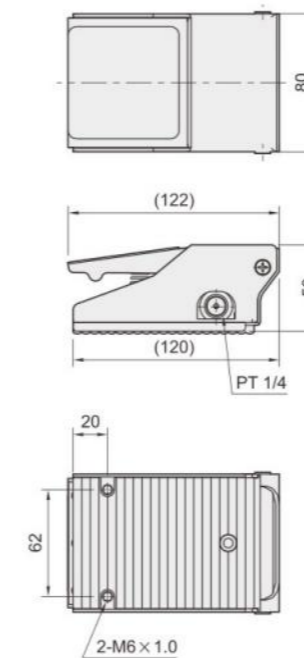


#### Order Code

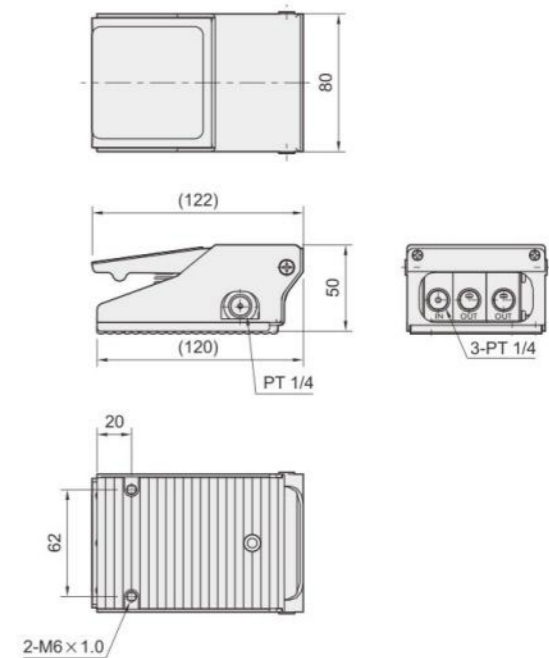


#### Dimension(mm)

FV320



FV320



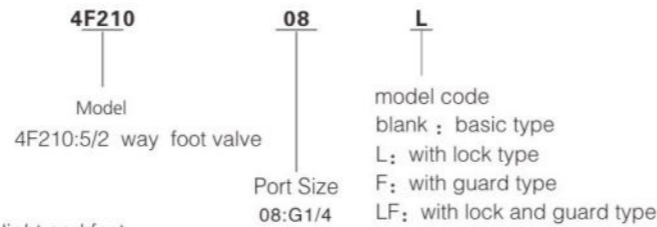
### 4F/FOV series Foot Valve

#### Technical Specification

Model	4F210-08	4F210-08L	4F210-08F	4F210-08LF
Working Fluid	Air(to be filtered by 40 μ m 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

#### Order Code



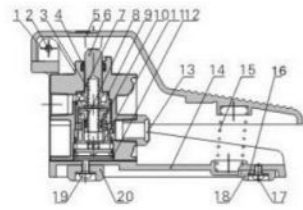
#### Symbol



#### Product feature

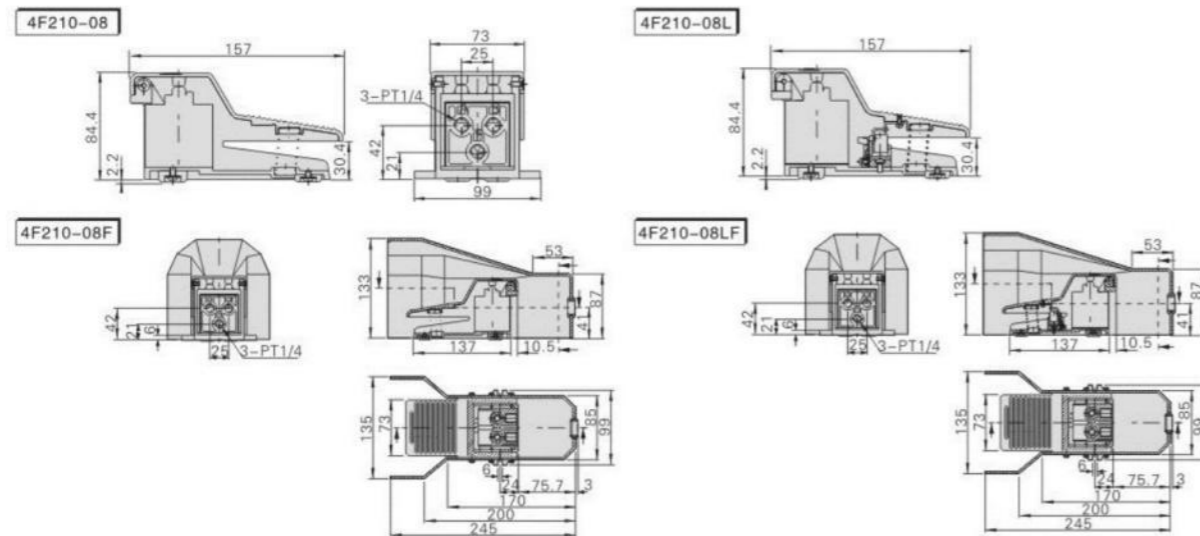
1. aluminum pedal, directly-action design, stable and reliable.
2. if the reversing time is longer, you can choose the lock type.
3. The locking mechanism is stable and reliable, and the unlocking is light and fast. But limited by the size of the structure, can not withstand frequent strong shocks
4.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



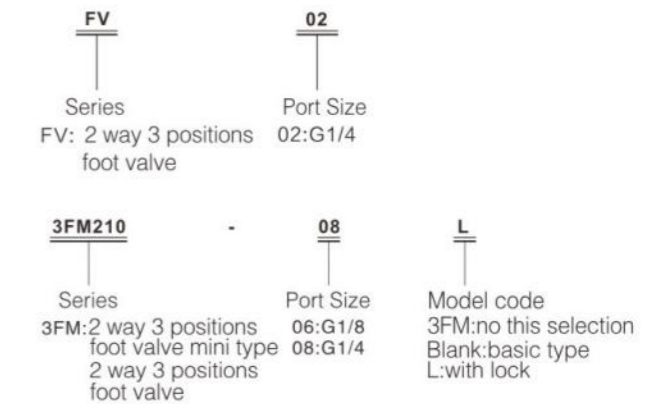
### FV/3F/3FM series Foot Valve

#### Technical Specification

Model	FV-02	3F210-06	3FM210-06	3F210-08	3FM210-08
Working Fluid	Air(to be filtered by 40 μ m 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

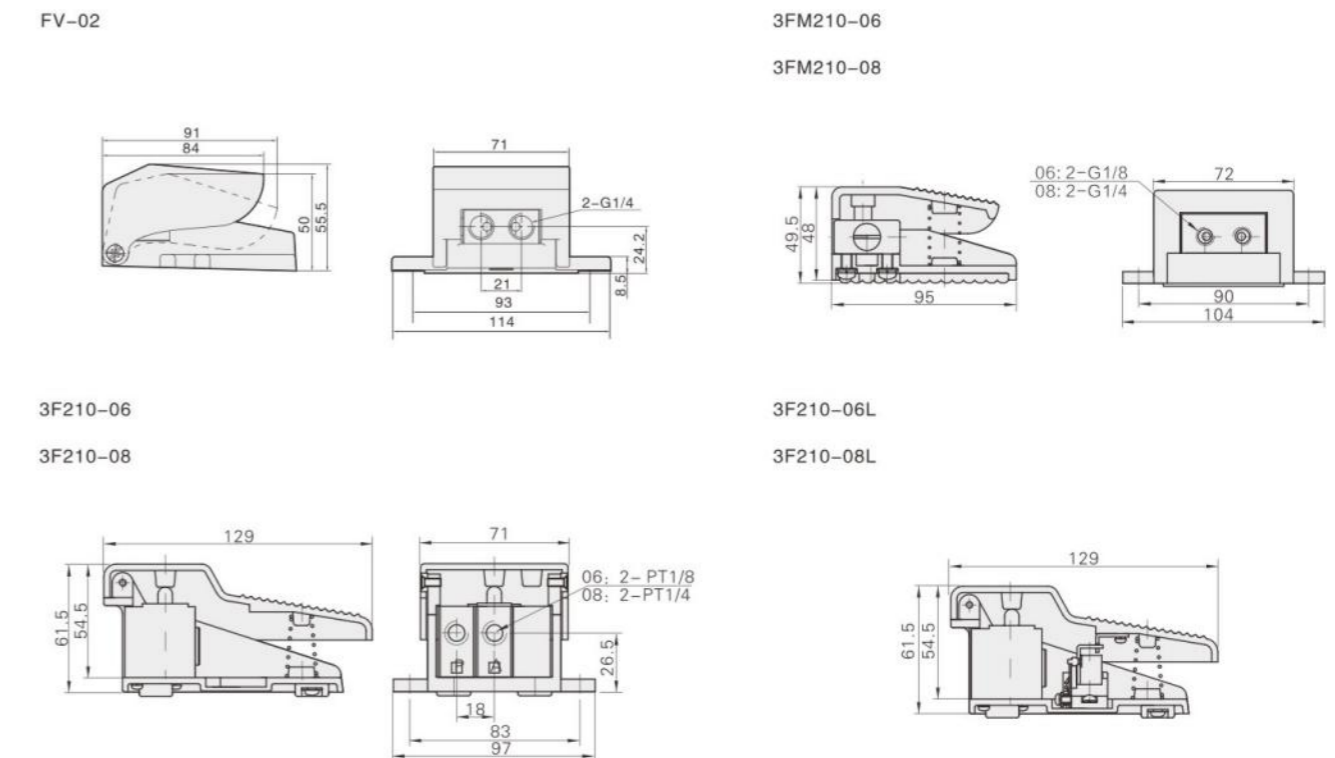
#### Order Code



#### Symbol



#### Dimension(mm)





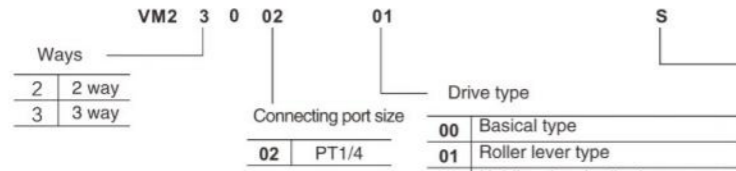
VM200 series Mechanical Valve



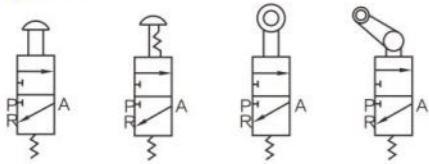
Technical Specification

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

Model codes



Symbol



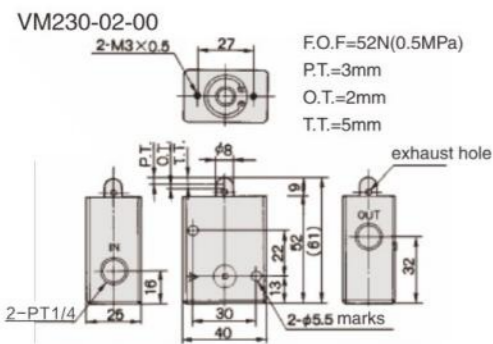
Drive type	
00	Basical type
01	Roller lever type
02	Unidirectional roller lever type
05	Straight plunger
06	Roller plunger
07	Transverse plunger
08	Toggle type
Button type	
30	Mushroom type
32	Head out type
33	Flat type
34	Knot type(2)
35	Knot type(3)
36	Lock knot type(2)
40	Foot lever type

Driver marks

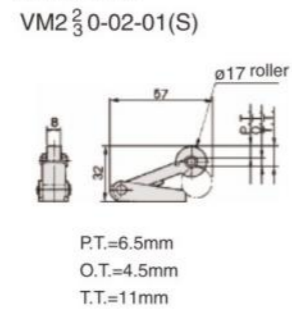
S	Roller material. Hard steel
R	Button color Red
B	Button color Black
G	Button color Green
Y	Button color Yellow

Dimension(mm)

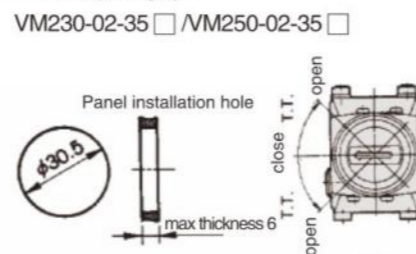
Basic type



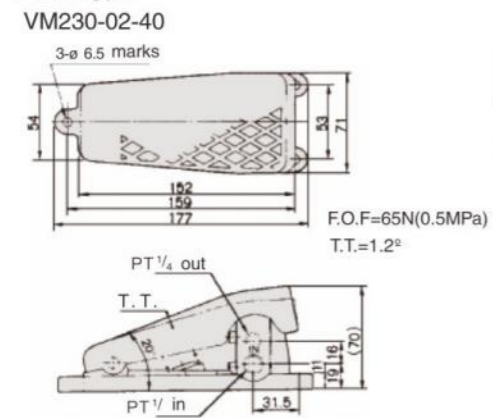
Roller lever



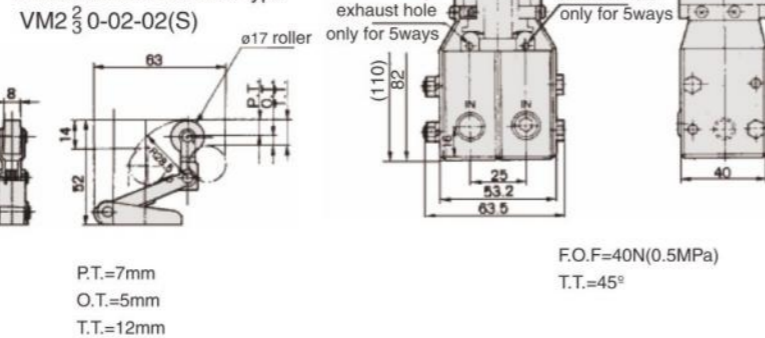
Kont(3ways)



Pedal type



Unidirectional roller lever type



S3 series Mechanical Valve

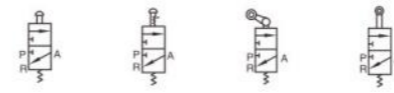


Technical Specification

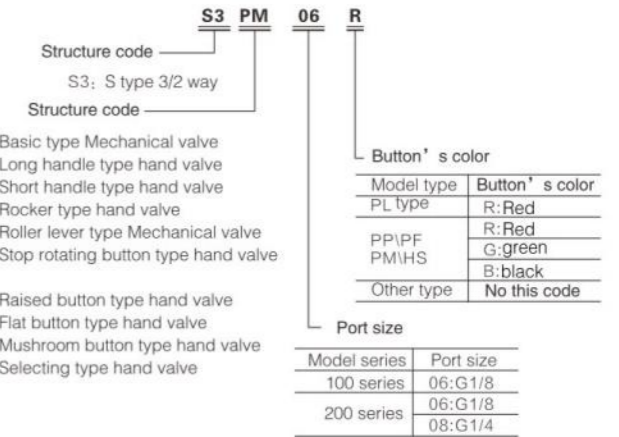
Model	S3B	S3C	S3D	S3V	S3R	S3L	S3Y	S3PM	S3PP	S3PF	S3PL	S3HS
Working Medium	Air ( Filtrated by over 40um' s sieve )											
Acting type	External control direct acting											
Port size ①	05: M5; 06: G1/8; 08: G1/4											
Effective sectional area	05:2.5 mm <sup>2</sup> (Cv=0.14); 06:8.0mm <sup>2</sup> (Cv=0.45); 08:12.0mm <sup>2</sup> (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 °C	-5~60°C(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



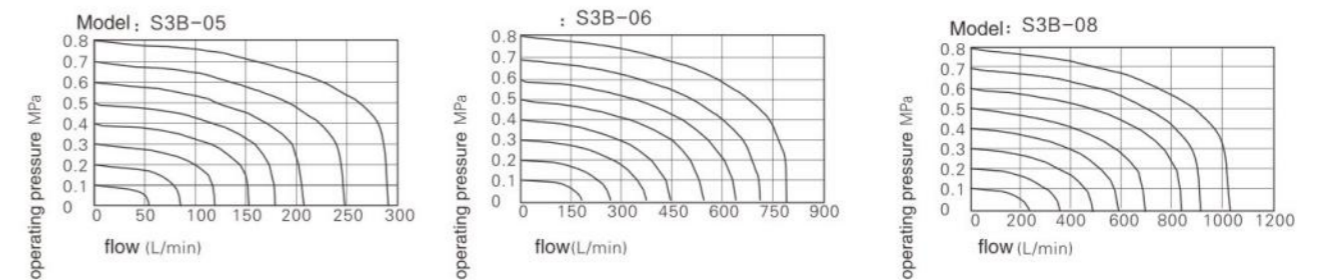
Resersing stroke

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

Resersing stroke

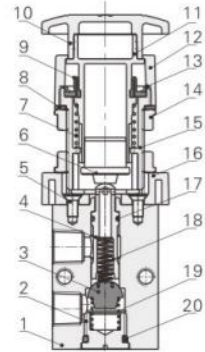
model	spool stroke	pushbutton stroke	spool stroke	pushbutton stroke	roller(hand shank)stroke
S3B	2.4~4.0	-	S3R	2.4~3.4	5.5~7.8
S3PF	2.4~4.0	3.8~5.4	S3L	2.4~3.4	6.0~8.6
S3PP	2.4~4.0	3.8~5.4	S3V	2.4~3.8	3.4~4.8
S3PM	2.4~4.0	3.8~5.4	S3C	2.4~3.8	14.4~18.4
S3PL	2.4~4.0	5.9~7.5	S3D	2.4~3.8	7.4~9.4
S3HS	2.4~4.0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

Flow characteristics



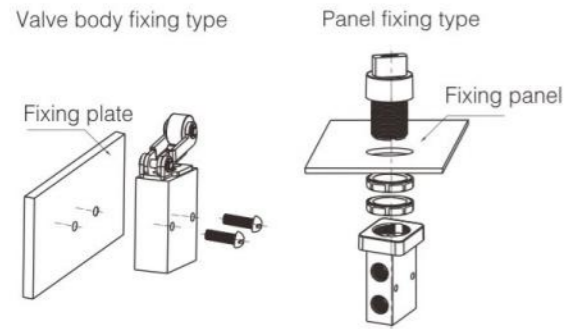
Inner construct

S3PM



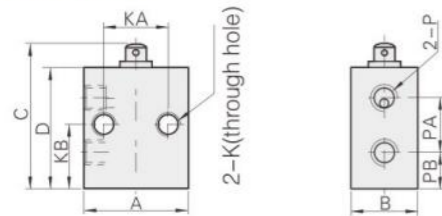
No.	Item	No.	Item	No.	Item	No.	Item
1	Valve body	6	Push button press release	11	Push button body	16	Button fixed block
2	Base	7	Spring	12	Push button cover	17	O ring
3	Nut	8	Fastening washer	13	Push button press ring	18	Spring
4	Axis core	9	Dust-proof guard	14	Fastening nut	19	Spring
5	Cross screw	10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

installing and using



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 Fluid	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 <sup>2</sup> (0.14)
Port size	side connected G1/8, below connected M5 x 0.8
Oil Supply	No need ( Oil supply using ISO VG32 )

Order code

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	○	×	×
Knob type	32	○	×	×
Knob type (2ways)	34	○	×	×
Knob type (3ways)	35	×	×	×
Lock knob type (2ways)	36	○	×	×

Symbol

Driver marks

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

Dimension(mm)

Basical type  
VM130-01-00/ VM131-01-00

Roller lever type  
VM131-01-01(S)

Knob type (3ways)  
VM131-01-35 □ VM151-01-35 □

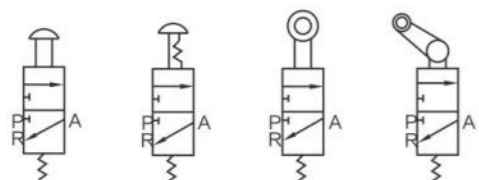
Toggle type  
VM-130-01-08

Unidirectional roller lever type  
VM131-01-02(S)

JM322 series Mechanical Valve



Symbol



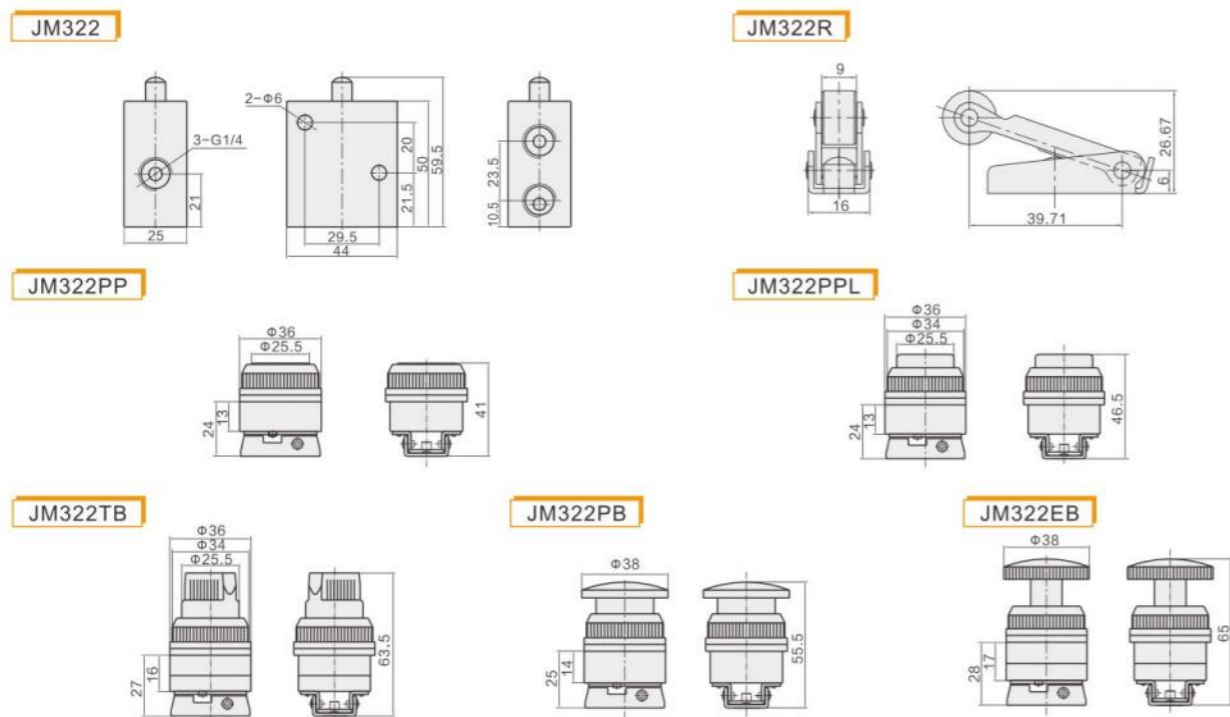
Order Code

**JM** Specification code  
 JM 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	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°C(Not Frozen)						
Lubricating	No need						

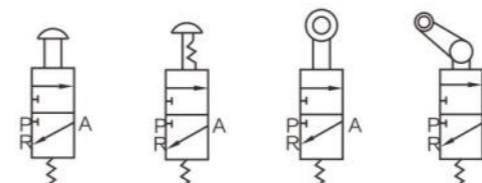
Dimension(mm)



MOV321 series Mechanical Valve



Symbol



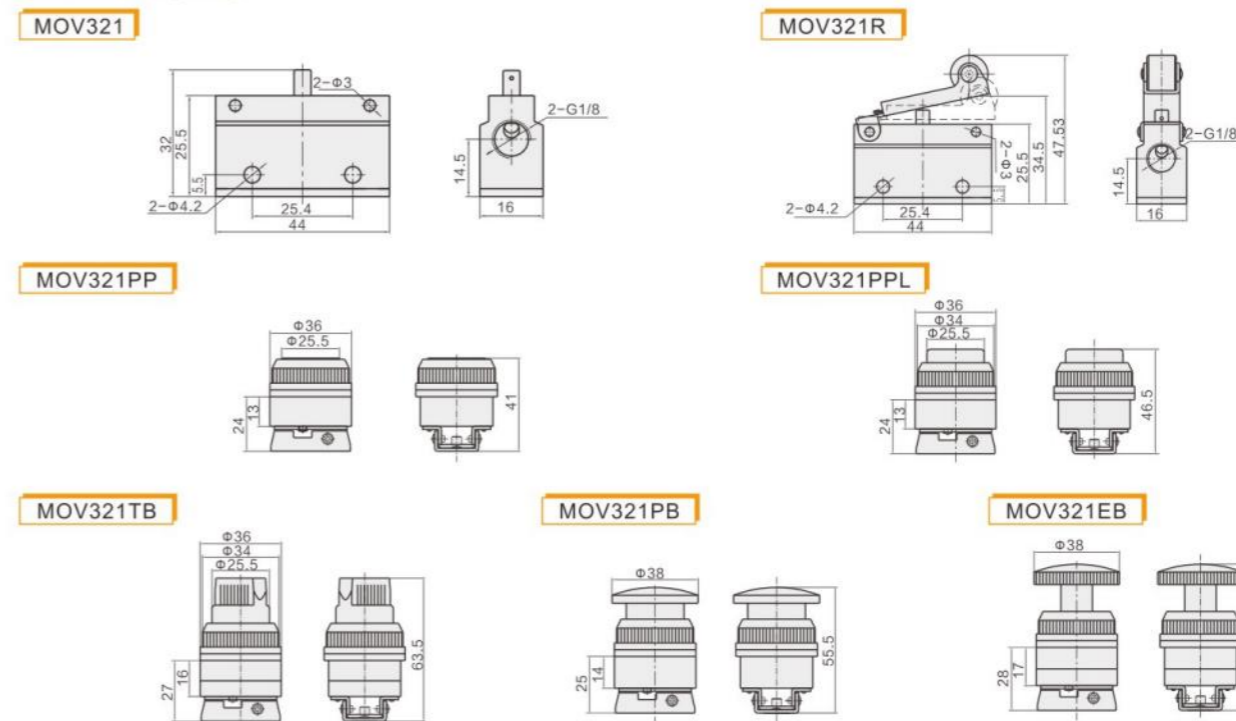
Order Code

**MOV** Specification code  
 Mov series mechanical valve  
**32** Ways code  
 32: 3/2 Way  
**1** Port size  
 1: G1/8  
**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	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°C(Not Frozen)						
Lubricating	No need						

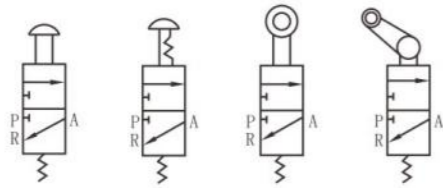
Dimension(mm)



MV322 series Mechanical Valve



Symbol



Order Code

**MV** Specification code  
MV series mechanical valve

**32** Ways code  
32: 3/2 Way

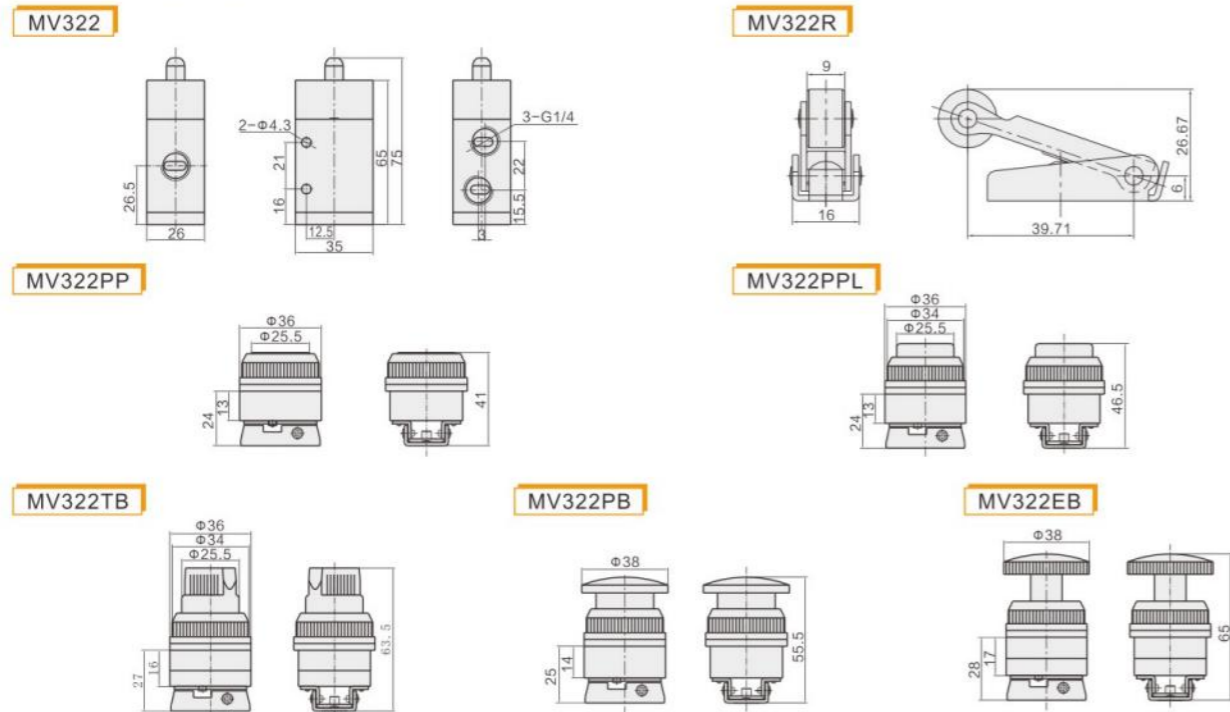
**2** Port size  
2: G1/4

**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°C(Not Frozen)						
Lubricating	No need						

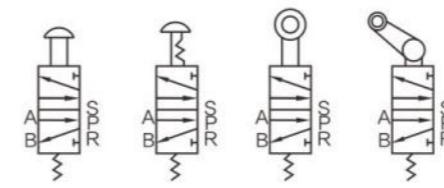
Dimension(mm)



MV522 series Mechanical Valve



Symbol



Order Code

**MV** Specification code  
MV series Mechanical Valve

**52** Ways code  
52: 3/2 Way

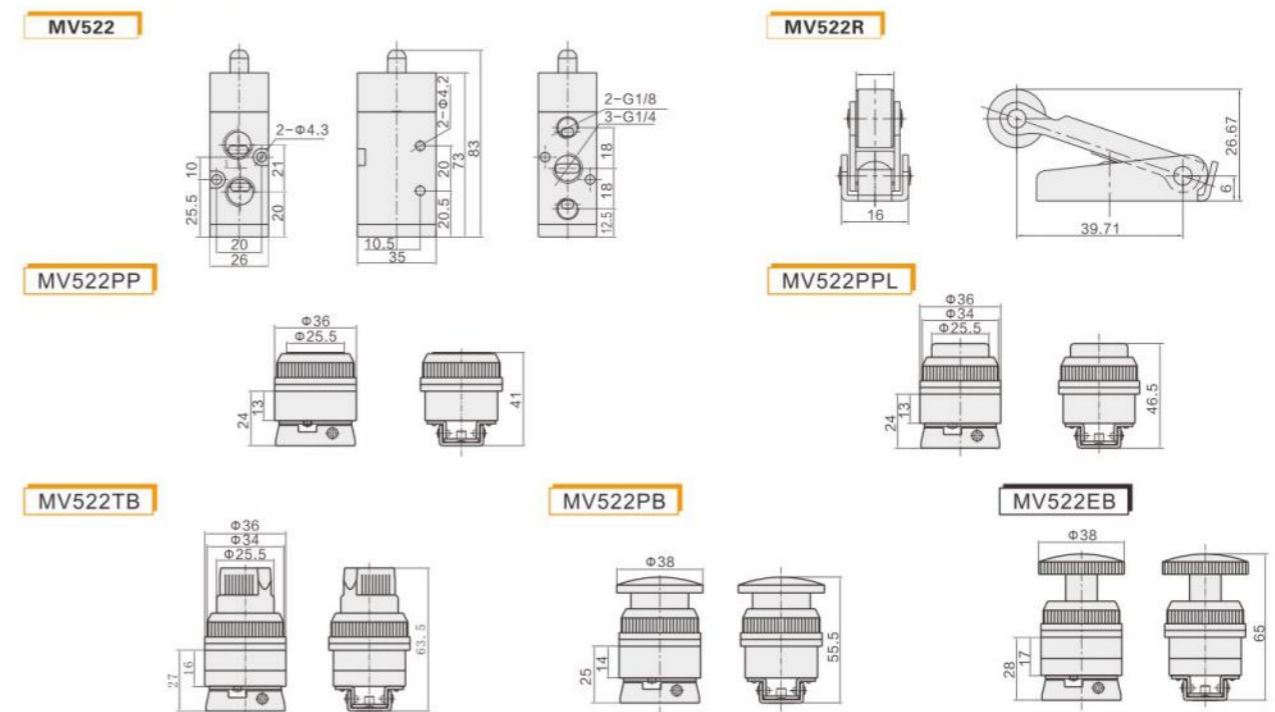
**2** Port size  
2: G1/4

**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	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°C(Not Frozen)						
Lubricating	No need						

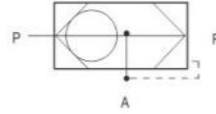
Dimension(mm)



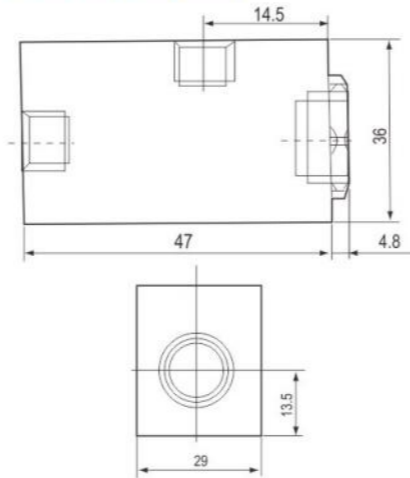
QE series Quick Exhaust Valve



Symbol



Dimension(mm)



Order Code

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

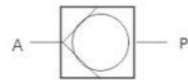
Technical Specification

Model	QE-01	QE-02	QE-03	QE-04
Working Fluid	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"

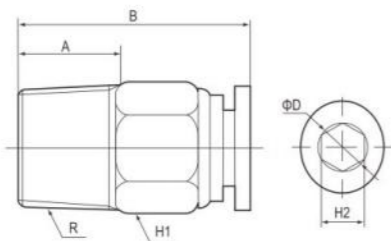


Technical Specification

Model	CV-01	CV-02	CV-03	CV-04
Working Fluid	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		



PC Straight Male Thread

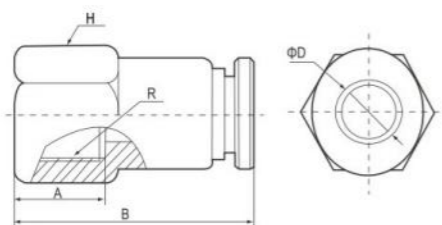


Model

- 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

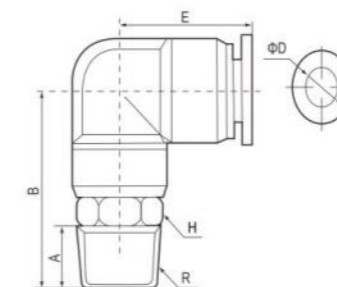


Model

- 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

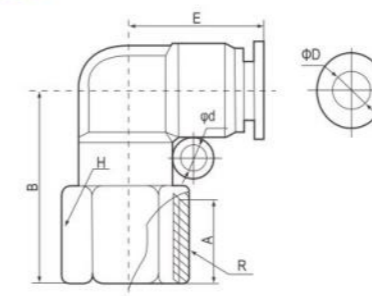


Model

- 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

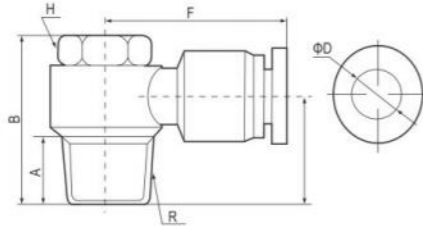
PLL4-M5	PLL6-04	PLL10-03
PLL4-01	PLL8-01	PLL10-04
PLL4-02	PLL8-02	PLL12-02
PLL6-M5	PLL8-03	PLL12-03
PLL6-01	PLL8-04	PLL12-04
PLL6-02	PLL10-01	
PLL6-03	PLL10-02	

## 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



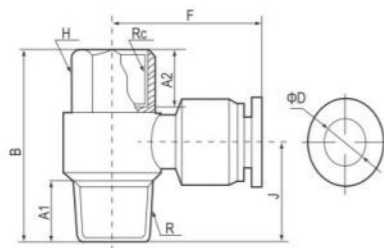
Metric	φ D	R	A	B	H	F	J
PH4-M5	4	M5	4	19	8	23.2	12.5
PH4-01	4	PT1/8	7.5	25	12	23.2	14.5
PH4-02	4	PT1/4	11	27	15	24.7	17.8
PH6-M5	6	M5	4	19	8	22.8	12.5
PH6-01	6	PT1/8	9.5	25	12	22.8	14.5
PH6-02	6	PT1/4	11	27	15	24.8	17.5
PH6-03	6	PT3/8	11	33	19	28.3	20
PH6-04	6	PT1/2	12	35	22	30	20
PH8-01	8	PT1/8	7.5	25	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	



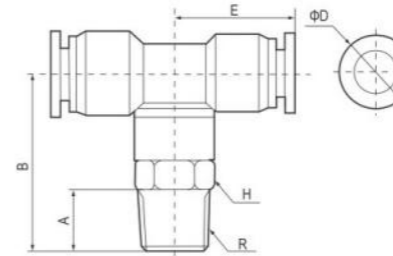
Metric	φ D	R	Rc	A1	A2	B	H	F	J
PHF4-M5	4	M5	M5	4	4	19	8	23.2	12.5
PHF4-01	4	PT1/8	R1/8	8	8	30	12	23.2	14.5
PHF4-02	4	PT1/4	R1/4	9	11	33	15	24.7	17.8
PHF6-M5	6	M5	M5	4	4	19	8	22.8	12.5
PHF6-01	6	PT1/8	R1/8	8	8	30	12	22.8	14.5
PHF6-02	6	PT1/4	R1/4	9	11	33	15	24.8	17.5
PHF6-03	6	PT3/8	R3/8	11	11	40	19	28.3	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	



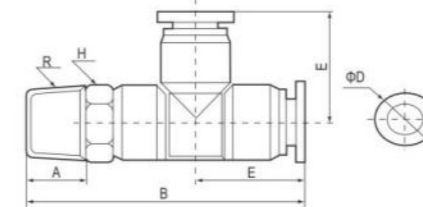
Metric	φ D	R	A	B	H	E
PB4-M5	4	M5	3.5		10	18.6
PB4-01	4	PT1/8	7		10	18.6
PB4-02	4	PT1/4	9		14	18.6
PB6-M5	6	M5	3.5		10	18.8
PB6-01	6	PT1/8	6.5		10	18.8
PB6-02	6	PT1/4	9	30	14	18.8
PB6-03	6	PT3/8	10	30.6	17	18.8
PB6-04	6	PT1/2	11	32.5	21	18.8
PB8-01	8	PT1/8	7	31.5	12	22.9
PB8-02	8	PT1/4	9	33	14	22.9
PB8-03	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



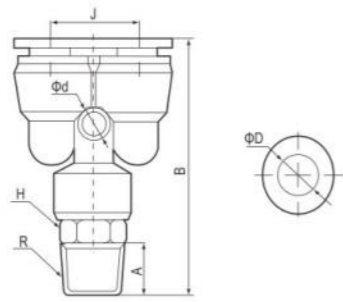
### Model

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

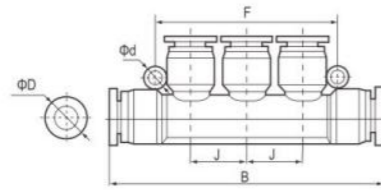


### Model

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

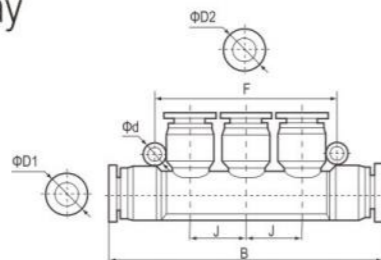


### Model

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

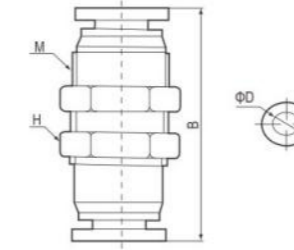


### Model

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
PKG8-4	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

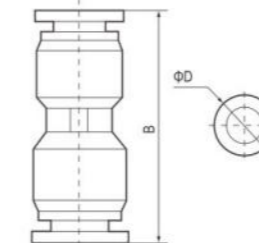
## PM Bulkhead Union



### 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

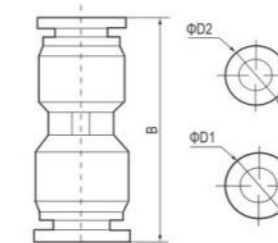
## PU Straight Union



### 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

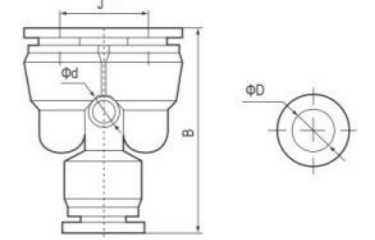
## PUG Reduced Straight Union



### 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

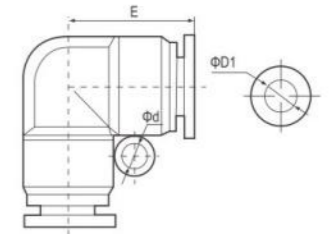
## PY Y-Shape Three-Way



### 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

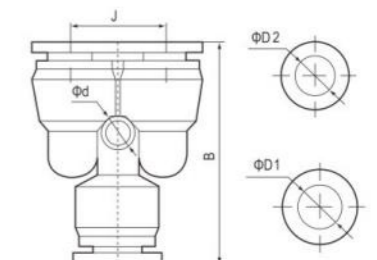
## PV Elbow Two-Way



### 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

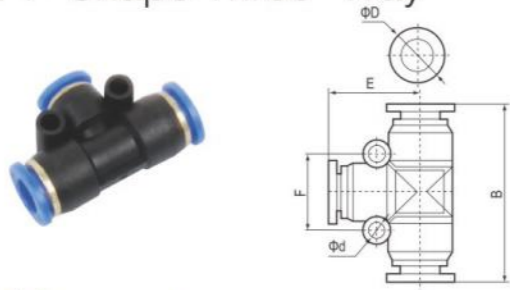


### Model

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

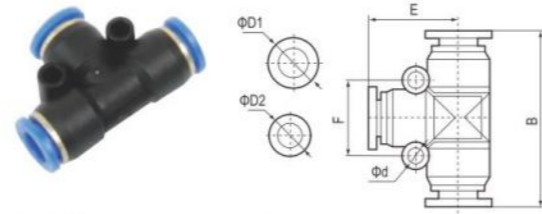


PE T-Shape Three-Way



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

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

SL Speed controller



Model	Model	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	

LSA Pipe Speed controller



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

PKB Side Male Thread Five-Way



Model	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

PKD Side Female Thread



Model	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

PZA Union Cross



Model
PZA4
PZA6
PZA8
PZA10
PZA12

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 series Hand Valves



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

BC-G series Hand Valve



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

BL-G series Hand Valve



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

BUL series Hand Valve



Model
BUL-06
BUL-08

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	1000	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	300	NHRL 10-04	1000
NRC 12-03		NHRC 12-03		NRL 12-03		NHRL 12-03	
NRC 12-04	200	NHRC 12-04		NRL 12-04	200	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.

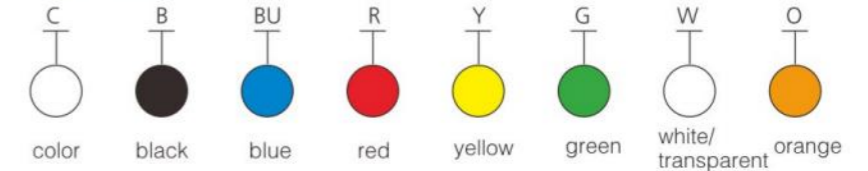


Pu Tube

Order Code

PU 08 06 B  
 Series standard specification tube color

tube color



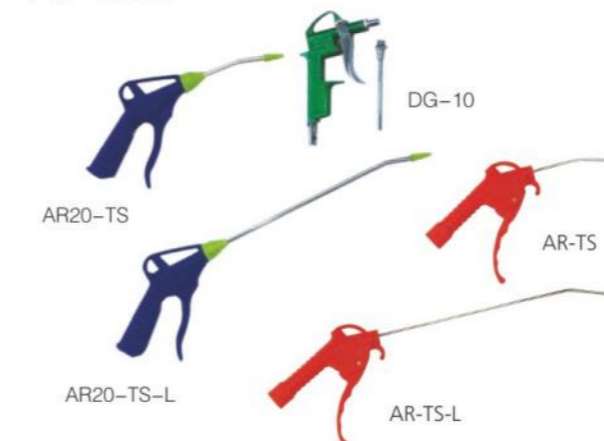
Pu tube specification sheet

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°C~+80°C
material	Wrench And Body : Engineering Plastic

### C Type Quick Coupler

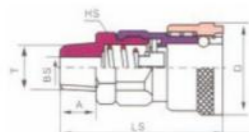
#### Order Code

**S** - Main body  
**M** - male thread  
**-** - female thread  
**20** - Port size  
 P: pipe locking  
 H: pipe plug-in  
 F: female thread  
 M: male thread

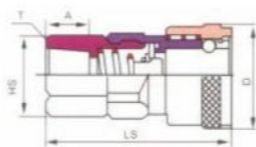
#### Technical Specification

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

#### SM



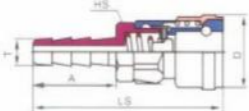
#### SF



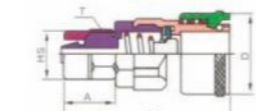
Models	A	BS	D	HS	LS	T
SM-10	9.7	6	26	19H	50.2	1/8PT
SM-20	9.4	6	26	19H	50.2	1/4PT
SM-30	15	8	26	19H	55.8	3/8PT
SM-40	16.5	11.5	26	21H	57.3	1/2PT
SM-60						

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



#### SP



Models	Matched pipe A	D	HS	LS	T
SH-10	φ6	26	19H	66.8	7
SH-20	φ8	26	19H	66.8	9
SH-30	φ10	26	19H	66.8	11
SH-40	φ12	26	21H	66.8	13.5
SH-60					

Models	Matched pipe A	D	HS	LS	T
SP-10	φ6	14.5	26	13.3	55.3
SP-20	φ8	14.5	26	13.3	55.3
SP-30	φ10	15	26	13.3	57
SP-40	φ12	17.5	26	15.8	58.8
SP-60					

#### PM



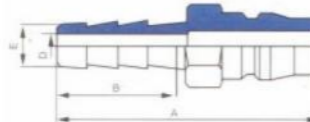
#### PF



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				

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



#### PP



Models	Matched pipe	A	B	D	E
PH-10	φ6	52.8	24	4.9	9
PH-20	φ8	52.8	24	4.9	9
PH-30	φ10	52.5	24	7.2	9.8
PH-40	φ12	52.3	24	7	12.6
PH-60					

Models	Matched pipe	B	D	H	LP
PP-10	φ6	2.9	13.3	14H	44.1
PP-20	φ8	2.9	13.3	14H	44.1
PP-30	φ10	3	13.2	15H	44.2
PP-40	φ12	5.2	15.8	19H	44.7
PP-60					

### Self-locked C Type Quick Coupler

#### Order Code

**L** - Self locked  
**S** - Main body  
**M** - male thread  
**-** - female thread  
**20** - Port size  
 P: pipe locking  
 H: pipe plug-in  
 F: female thread  
 M: male thread

#### Technical Specification

Working fluid	Air
Max withstand pressure	1.32Mpa(1.35kgf/cm <sup>2</sup> )
Max operating pressure	0~0.9Mpa(0~9.2kgf/cm <sup>2</sup> )
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 :  $F = P * A$

F: Theoretical output of cylinder ( kgf ) P: working pressure ( kgf/cm<sup>2</sup> ) A: Pressure area of piston (cm<sup>2</sup>)

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

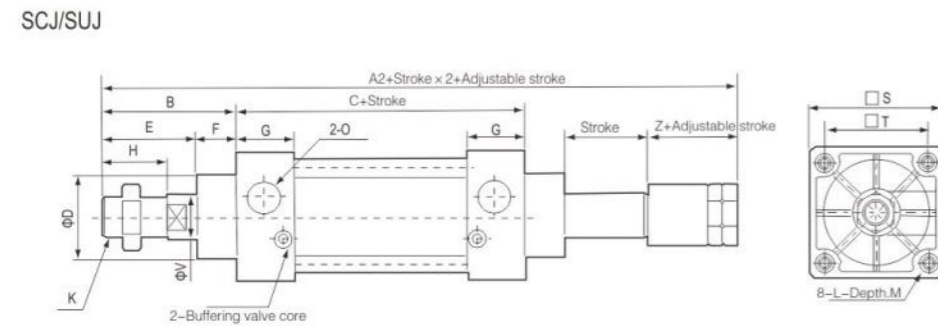
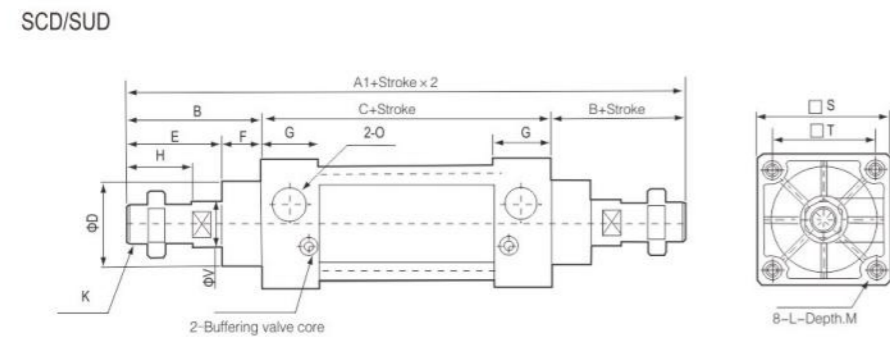
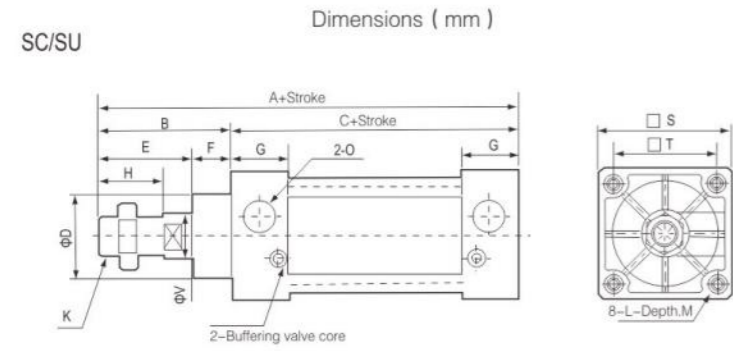
Specification

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 <sup>2</sup> )					
Proof pressure	1.35Mpa(13.5kgf/cm <sup>2</sup> )					
Working Temperature range	-5~60°C(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 )



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
<p>DNC: Normal type                  HNC: axial bumpers type                  FNC: Front and back flange                  SNCB: Double earring type                  SNCL: Single earring type</p>				

Specification

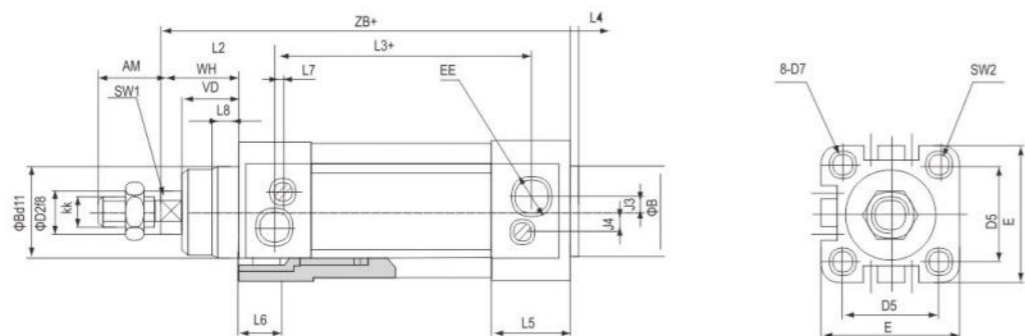
Bore size(mm)	32	40	50	63	80	100
Acting type	Double acting					
Working Medium	Air(to be filtered by 40 μ m filter element)					
Operating pressure	0.1~0.9Mpa(1~9kgf/cm <sup>2</sup> )					
Proof pressure	1.35Mpa(13.5kgf/cm <sup>2</sup> )					
Working Temperature range	-5~60°C(Unfreeze)					
Cushion type	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

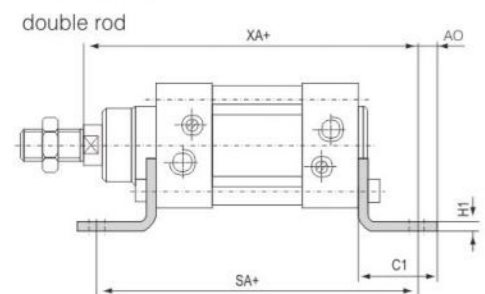
Dimensions ( mm )

DNC...PPV-A  
Basic type

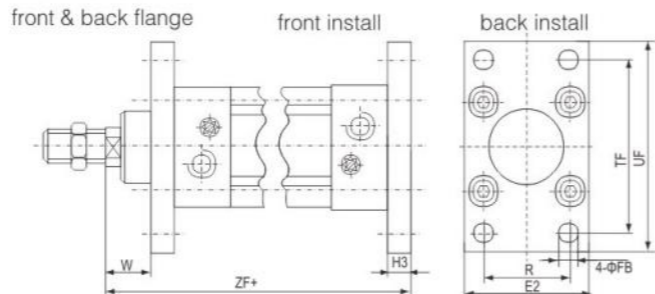


bore size(mm)	AM	E	D2	D5	D7	E	EE(G)	J3	J4	KK	L2	L3	L4	L5	L6	L7	L8	SW1	SW2	VD	WH	ZB
32	22	30	12	32.5	M6	45	1/8	6	5.2	M10x1.25	41.6	62.8	4	25.1	16	3.3	10	6	18	26	120	
40	24	35	16	38	M6	54	1/4	8	6	M12x1.25	44	77	4	29.6	16	3.6	10.5	13	6	21.5	30	135
50	32	40	20	46.5	M8	64	1/4	10	8.5	M16x1.5	51	78	4	29.6	17	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

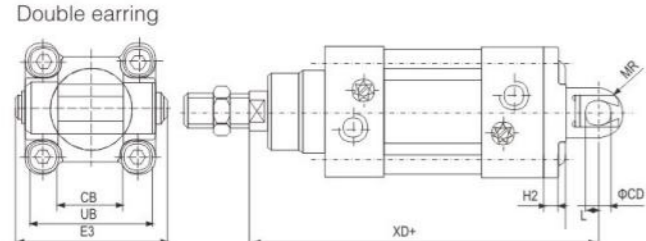


FNC...PPV-A

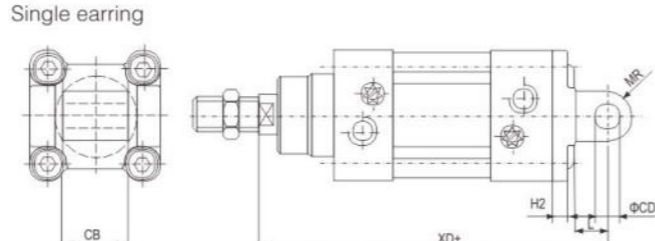


bore size(mm)	AB	AH	AO	C1	E	H1	SA	TR	XA	E2	H13	H3	R	TF	UF	W	ZF
32	7	32	6.5	30.5	45	5	142	32	144	50	7	10	32	64	80	16	130
40	10	36	9	37	54	5	161	36	163	55	9	10	36	72	90	20	145
50	10	45	10.5	41.5	64	6	170	45	175	65	9	12	45	90	110	25	155
63	10	50	12.5	44.5	75	6	185	50	190	75	9	12	50	100	125	25	170
80	12	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



SNCL...PPV-A

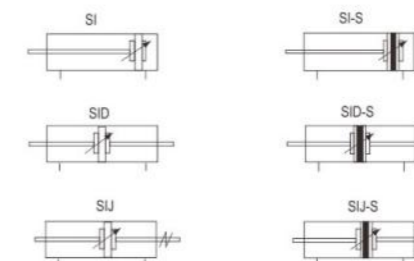


bore size(mm)	CB	DB	E3	H2	L	MR	UB	XD
32	26	10	55	6	13	10	45	142
40	28	12	63	6	16	12	52	160
50	32	12	71	7	16	12	60	170
63	40	16	83	7	21	16	70	190
80	50	16	103	10.5	22	16	90	210
100	60	20	127	10.5	27	20	110	230

SI Series Standard Cylinder



Symbol



Order Code

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

	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	suitable for bore size φ32~φ100
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 μm filter element)								
Fixing Type	Basic type FA FB CA CB LB TC TC-M-1 TC-M-2								
	Basic type FA LB TC TC-M-1 TC-M-2								
	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°C(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				

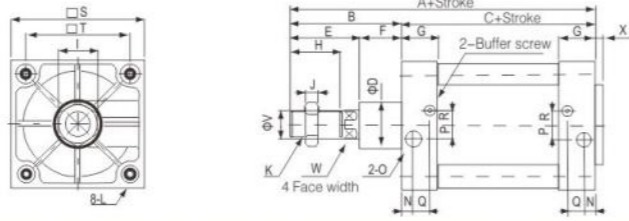
Stroke

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



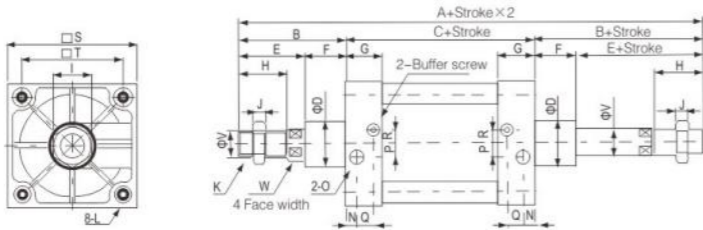
Dimensions ( mm )

SI



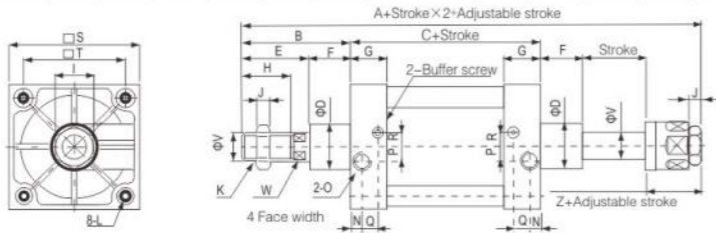
Bore Size(mm)	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	X
32	142	48	94	30	28	20	27.5	22	17	6	M10x1.25	M6	13.5	PT1/8	4	7.5	7	47	32.5	12	10	3
40	159	54	105	35	34	22	32	24	19	7	M12x1.25	M6	16	PT1/4	6	8.5	9	53	38	16	13	3.5
50	175	69	106	40	42	27	31	32	24	8	M16x1.5	M8	15.5	PT1/4	8.5	7.5	7.5	65	46.5	20	17	3.5
63	190	69	121	45	40	29	33	32	24	8	M16x1.5	M8	16.5	PT3/8	7.5	8.5	9	75	56.5	20	17	4
80	214	86	128	45	53	33	33	40	30	10	M20x1.5	M10	16.5	PT3/8	11	8.5	13.5	95	72	25	22	4
100	229	91	138	55	55	36	37	40	30	10	M20x1.5	M10	18.5	PT1/2	13.5	9.5	14.5	115	89	25	22	4
125	279	119	160	60	74	45	46	54	41	13.5	M27x2	M12	23	PT1/2	14	12	14	140	110	32	27	4
160	332	152	180	65	94	58	50	72	55	18	M36x2	M16	25	PT3/4	15	12	20	180	140	40	36	4
200	347	167	180	75	100	67	50	72	55	18	M36x2	M16	25	PT3/4	15	12	20	220	175	40	36	5

SID



Bore Size(mm)	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W
32	190	48	94	30	28	20	27.5	22	17	6	M10x1.25	M6	13.5	PT1/8	4	7.5	7	47	32.5	12	10
40	213	54	105	35	32	22	32	24	19	7	M12x1.25	M6	16	PT1/4	6	8.5	9	53	38	16	13
50	244	69	106	40	42	27	31	32	24	8	M16x1.5	M8	15.5	PT1/4	7.5	8.5	8.5	65	46.5	20	17
63	259	69	121	45	40	29	33	32	24	8	M16x1.5	M8	16.5	PT3/8	7.5	8.5	9	75	56.5	20	17
80	300	86	128	45	53	33	33	40	30	10	M20x1.5	M10	16.5	PT3/8	11	8.5	13.5	95	72	25	22
100	320	91	138	55	55	36	37	40	30	10	M20x1.5	M10	18.5	PT1/2	13.5	9.5	14.5	115	89	25	22
125	398	119	160	60	74	45	46	54	41	13.5	M27x2	M12	23	PT1/2	14	12	14	140	110	32	27
160	484	152	180	65	94	58	50	72	55	18	M36x2	M16	25	PT3/4	15	12	20	180	140	40	36
200	514	167	180	75	100	67	50	72	55	18	M36x2	M16	25	PT3/4	15	12	20	220	175	40	36

SIJ



Bore Size(mm)	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	Z
32	189	48	94	30	28	20	27.5	22	17	6	M10x1.25	M6	13.5	PT1/8	4.5	6.5	6.5	47	32.5	12	10	21
40	209	54	105	35	34	22	32	24	19	7	M12x1.25	M6	16	PT1/4	6	8.5	9	53	38	16	13	21
50	234	69	106	40	42	27	31	32	24	8	M16x1.5	M8	15.5	PT1/4	8.5	7.5	7.5	65	46.5	20	17	23
63	250	69	121	45	40	29	33	32	24	8	M16x1.5	M8	16.5	PT3/8	7.5	8.2	9	75	56.5	20	17	23
80	286	86	128	45	53	33	33	40	30	10	M20x1.5	M10	16.5	PT3/8	11	8.5	13.5	95	72	25	22	29
100	304	91	138	55	55	36	37	40	30	10	M20x1.5	M10	18.5	PT1/2	13.5	9.5	14.5	115	89	25	22	29
125	378	119	160	60	74	45	46	54	41	13.5	M27x2	M12	23	PT1/2	14	12	14	140	110	32	27	40.5
160	458	152	180	65	94	58	50	72	55	18	M36x2	M16	25	PT3/4	15	12	20	180	140	40	36	50
200	486	167	180	75	100	67	50	72	55	18	M36x2	M16	25	PT3/4	15	12	20	220	175	40	36	54

MB Series Standard Cylinder



Order Code

Order Code structure: **M** **D** **B** **L** **32** - **50** - **273**

With magnet: Blank, without built-in magnet, with built-in magnet

Port thread: Blank, Rc, TN, NPT, TF, G

Stroke: 50

Number of Magnetic switch: Blank, 2个, S, 1个, n, n个

Magnetic switch type: Blank, Without magnetic switch

\*please refer to table of stroke/magnetic switch  
\*the type without inner magnetic ring didn't have this item

Mounting type: B, L, F, G, C, D, T

Bore size: 32, 40, 50, 63, 80, 100, 125

Cylinder sign: Air, Cushion

Air: Blank, Without, J, Nylon Canvas

Cushion: K, Heat-resistance Canvas, N\*, Rubber Cushion, Blank, Both Ends With Air Cushion

\*The total length of cylinder should increase as following when use rubber cushion:  $\phi 32, \phi 40$  increase 6mm;  $\phi 50, \phi 63$  increase 8mm;  $\phi 80, \phi 100$  increase 10mm;  $\phi 125$  increase 12mm

Specification

Bore size(mm)	32	40	50	63	80	100	125
Working Medium	Air						
Acting type	double acting						
Max working pressure	1.0MPa						
Min working pressure	0.05MPa						
Ambient and Working Medium temperature	without magnetic switch:-10℃~+70℃, with magnetic switch:-10℃~+60℃						
Operating speed mm/s	50~1000						50~700
Cushion	both ends with air cushion						
Stroke tolerance mm	~250: $^{+1.0}_0$ 251~1000: $^{+1.4}_0$ 1001~1500: $^{+1.8}_0$						
Lubrication*	not required						
Port size Rc	1/8	1/4	1/4	3/8	3/8	1/2	1/2

\*For oil, please use Turbine No. 1 oil ISOVG32

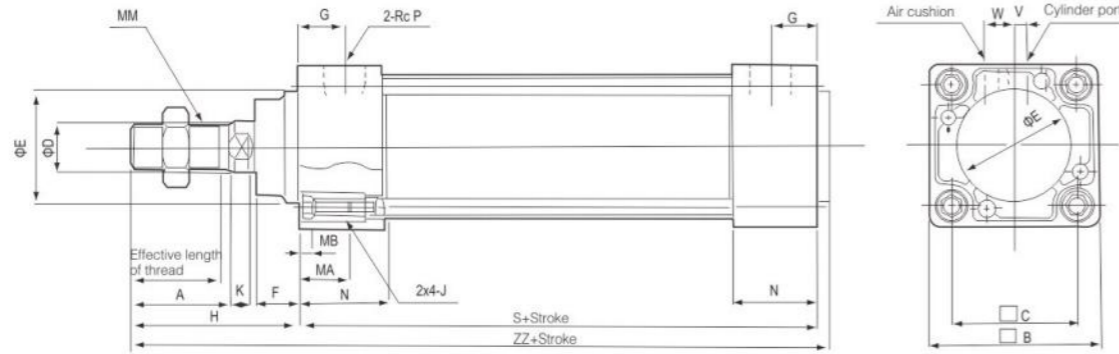
Please refer to table of stroke/magnetic switch

Bore size(mm)	Max std Stroke(mm) <sup>1)</sup>	Magnetic switch type(mm) <sup>2)</sup> Tie-rod	Magnetic switch parts
32	25,50,75,100,125,150,175,200,250,300,	273, 276, Y59A, Y59B Y7NW, Y7BA,	BMB4-032
40	350,400,450,500		BMB4-050
50	25,50,75,100,125,150,175,200,250,300,		BA4-060
63	350,400,450,500,600		BA4-080
80	25,50,75,100,125,150,175,200,250,300,		
100	350,400,450,500,600,700,800		
125			

1): Has Non-standard stroke  
2): Wire length mark: no mark

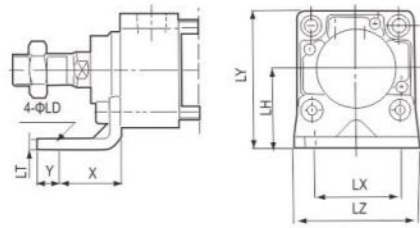
Dimensions ( mm )

Basic type

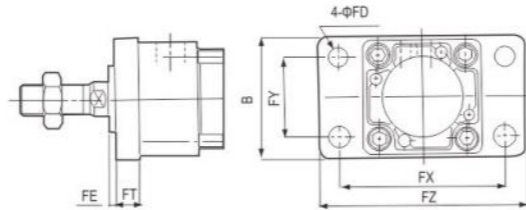


Bore size (mm)	Stroke range (mm)	Effective length of thread	A	B	C	φD	φE	F	G	MA	MB	J	K	MM	N	P	S	V	W	H	ZZ
32	~500	19.5	22	46	32.5	12	30	13	13	16	4	M6x1.0	6	M10x1.25	27	1/8	84	4	6.5	47	135
40	~500	27	30	52	38	16	35	13	14	16	4	M6x1.0	6	M14x1.5	27	1/4	84	4	9	51	139
50	~600	32	35	65	46.5	20	40	14	15.5	16	5	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

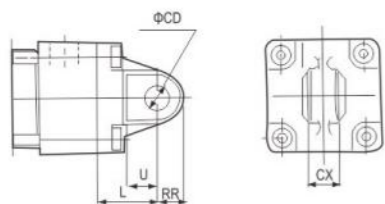


Flange type



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

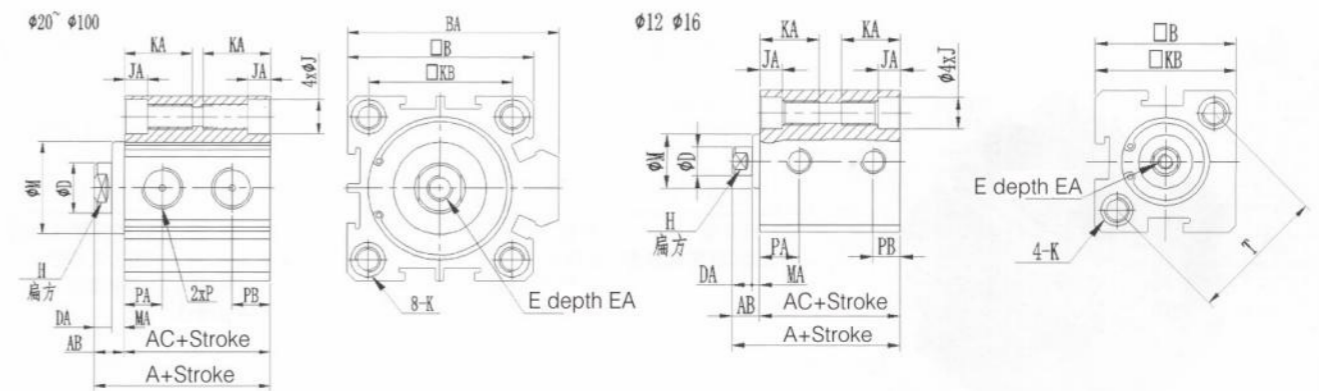
①When the interface thread is M5jf, this code is empty  
 ②The single acting push type means that the piston rod extends during ventilation, the front spring is compressed, and retracts when the air is cut off.  
 The single acting pull type means that the piston rod retracts when the air is ventilated,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

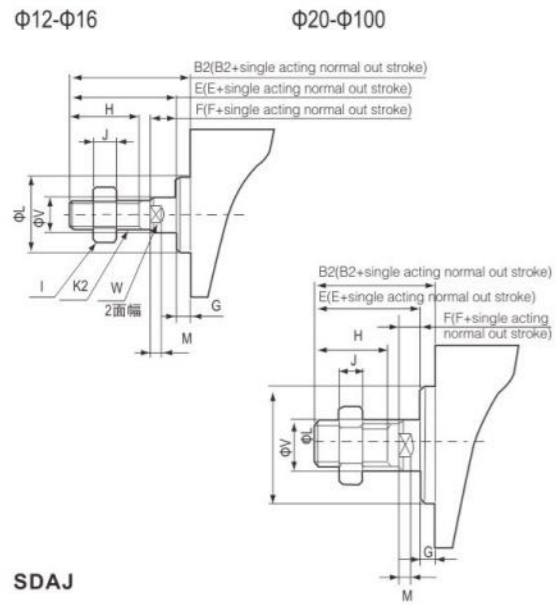
Specification

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 μm 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°C(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		

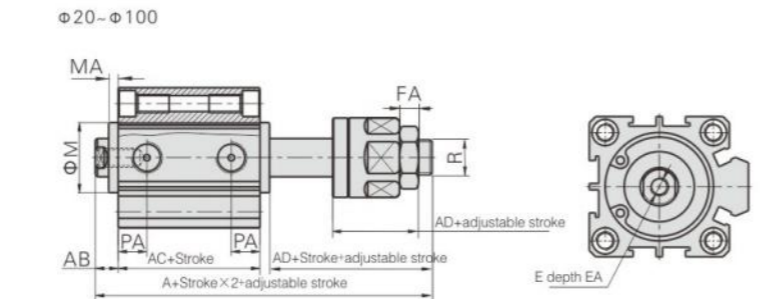
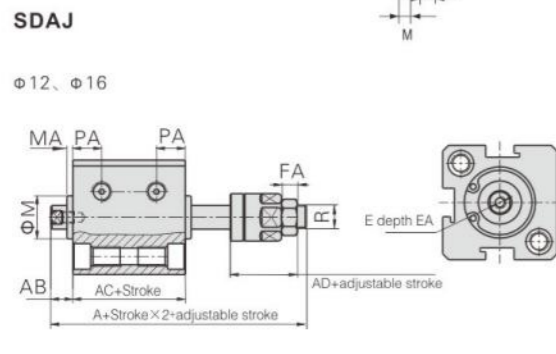
Dimensions ( mm )



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	-

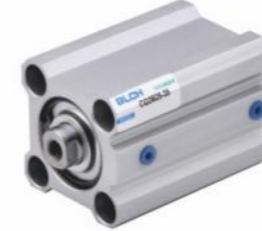


Bore size(mm)	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	10	8	4	M5x0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	10	8	4	M5x0.8	11	2.8	6	5
20	20.5	19	4	1.5	13	10	5	M6x1.0	15	2.8	8	6
25	23	21	4	2	15	12	6	M8x1.25	17	2.8	10	8
32	25	22	4	3	15	17	6	M10x1.25	22	2.8	12	10
40	35	32	4	3	25	19	8	M14x1.5	28	2.8	16	14
50	37	33	5	4	25	27	11	M18x1.5	38	2.8	20	17
63	37	33	5	4	25	27	11	M18x1.5	40	2.8	20	17
80	44	39	6	5	30	32	13	M22x1.5	45	4	25	22
100	50	45	7	5	35	36	13	M22x1.5	55	4	25	27

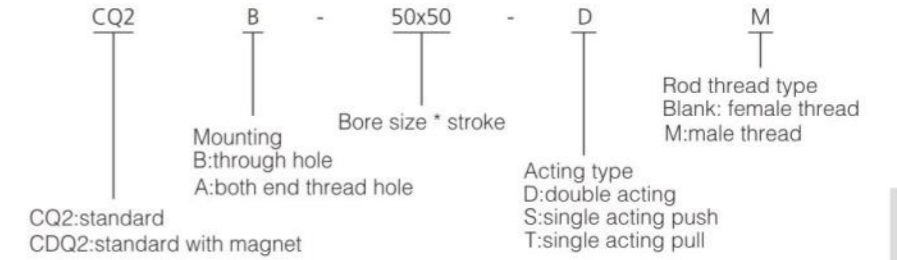


Bore size(mm)	A		AB	AC		AD	E	EA		FA	M	MA	PA		R
	standard	with magnet		standard	with magnet			St≤10	St>10				St=5	St>5	
12	40	50	5	17	27	17	M3×0.5	6	6	4	10.2	1	5.5	6.3	M5×0.8
16	42.5	52.5	5.5	18.5	28.5	17	M3×0.5	6	6	4	11	1.5	6.5	7.3	M5×0.8
20	47.5	57.5	5.5	19.5	29.5	21	M4×0.7	8(St=5時6.5)	8	5	15	1.5	7.5	7.5	M6×1.0
25	54	64	6	21	31	25	M5×0.8	10(St=5時7)	10	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											

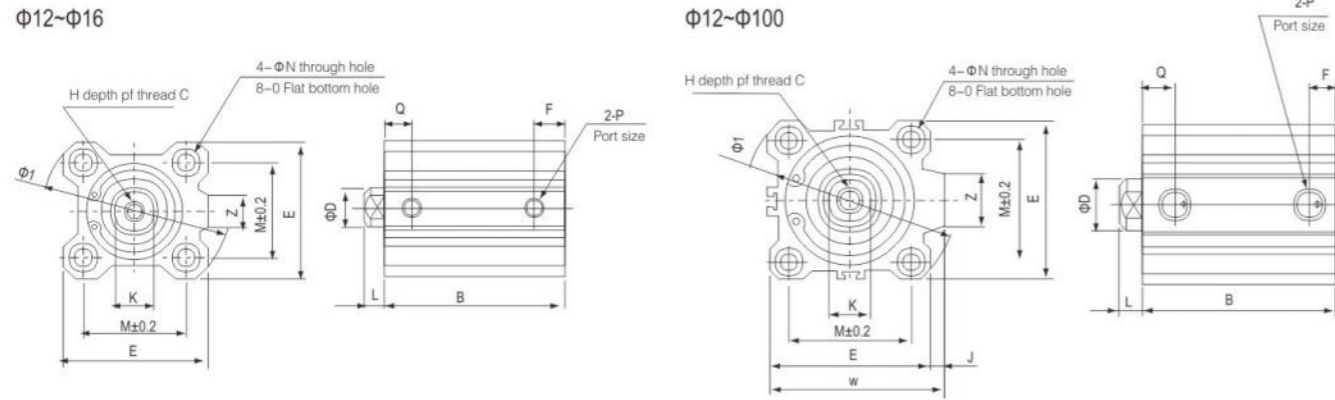
### Specification

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 <sup>2</sup> )									
Proof pressure	1.35Mpa(13.5kgf/cm <sup>2</sup> )									
Working Temperature range	-5~60°C(Unfreeze)									
Cushion type	with Cushion									
Port size	M5			1/8"			1/4"		3/8"	
Body material	Aluminum alloy									

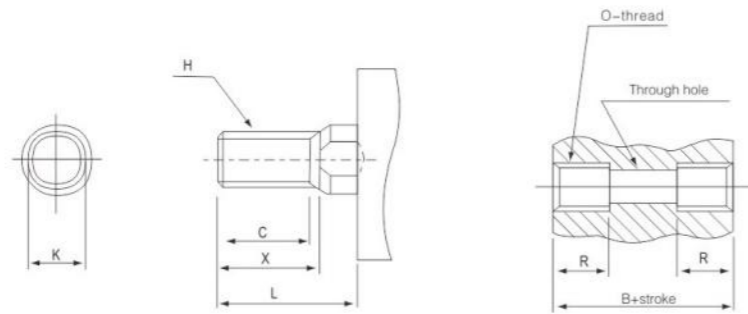
### Stroke

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	90			
25	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90			
32	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
40	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
50	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
63	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
80	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
100	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100

Dimensions (mm)



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



Criteria for selection

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

Specification

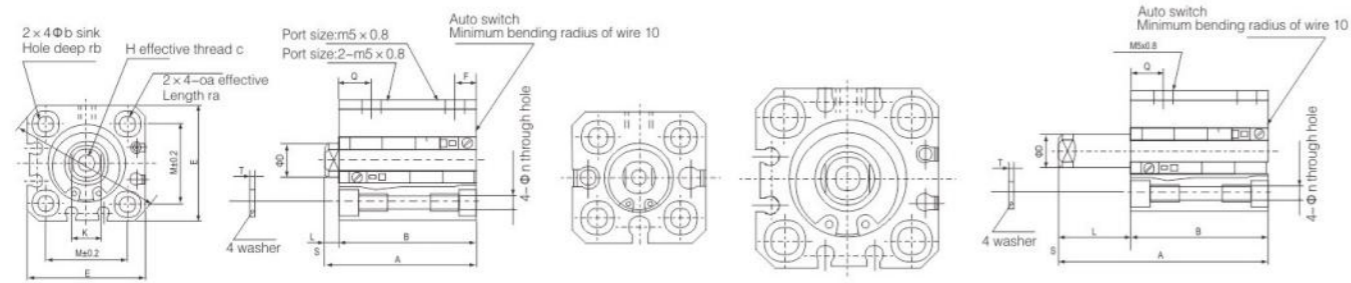
Bore size(mm)	12	16	20	25
Acting type	Double acting			
Working Medium	Air(to be filtered by 40 μ m filter element)			
Operating pressure	0.1~0.9Mpa(1~9kgf/cm <sup>2</sup> )			
Proof pressure	1.35Mpa(13.5kgf/cm <sup>2</sup> )			
Working Temperature range	-5~60°C(Unfreeze)			
Cushion type	without Cushion			
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



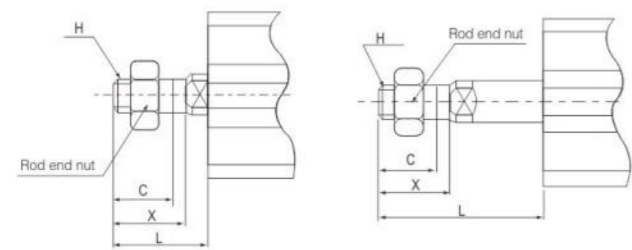
Bore size(mm)	Standard													Double acting (standard)					Built-in magnet type		
	C	D	E	H	I	K	M	N	OA	OB	RA	RB	T	Q	A	B	F	L	Q	A	B
12	6	6	25	M3x0.5	32	5	15.5	3.5	M4x0.7	6.5	7	4	0.5	7.5	20.5+st	17+st	5	3.5	7.5	25.5+st	22+st
16	8	8	29	M4x0.7	38	6	20	3.5	M4x0.7	6.5	7	4	0.5	7.5	22.5+st	17+st	5	3.5	7.5	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

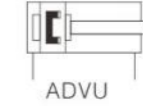


Bore size(mm)	C	H	L	X
12	90	M5x0.8	14	10.5
16	10	M6x1.0	15.5	12
20	12	M8x1.25	18.5	14
25	15	M10x1.25	22.5	17.5

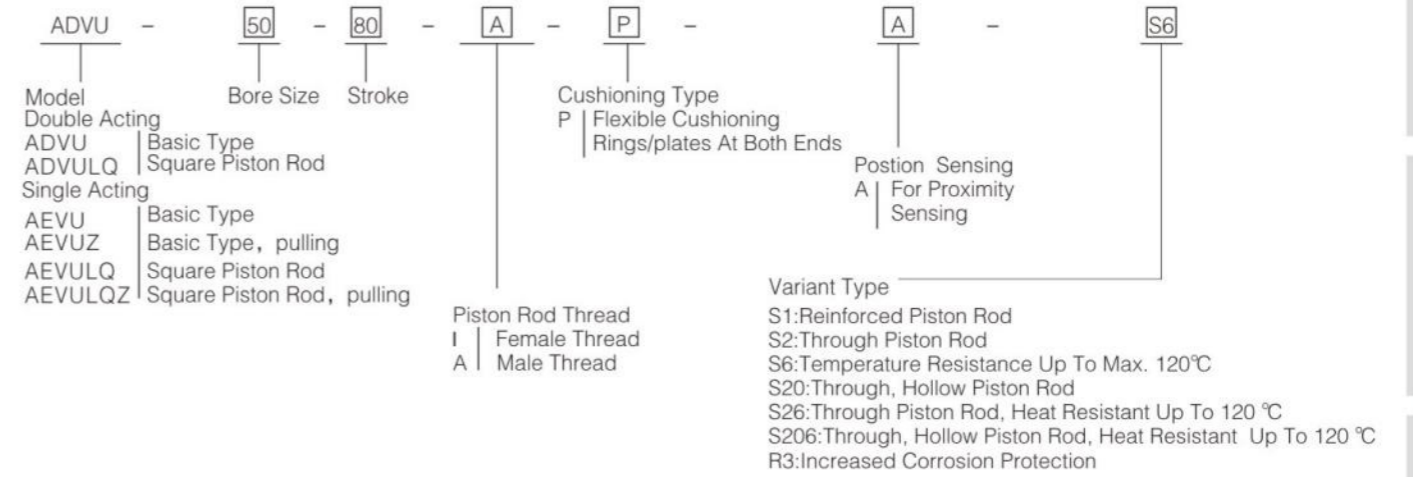
Bore size(mm)	C	H	L(5XY)	L(10XY)	X
12	90	M5x0.8	19	12	10.5
16	10	M6x1.0	20.5	16	12
20	12	M8x1.25	23.5	20	14
25	15	M10x1.25	27.5	25	17.5

ADVU seris compact cylinder

Symbol



Order Code



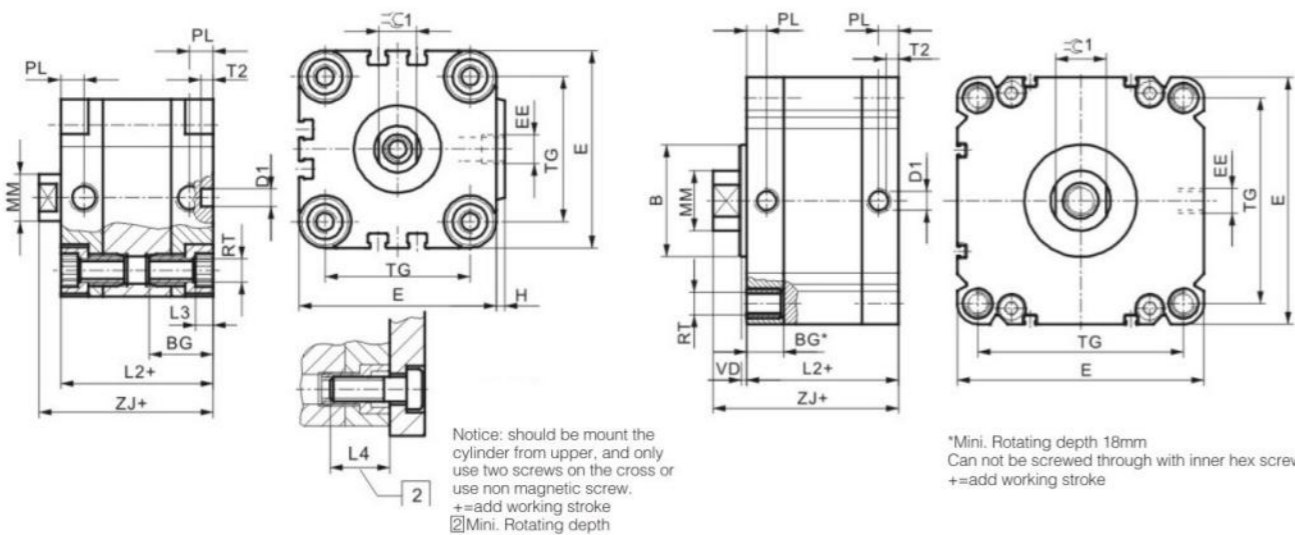
Specification

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
	male thread	M6	M8	M10 x 1.5			M12 x 1.5	M16 x 1.5	M20 x 1.5	M27 x 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	S2/S20	68	121	188	295	483	754	1178	1870	3016	4712
	S2/S20	51	90	141	247	415	686	1057	1750	2727	4418
Theoretical Force At 6 Bar, Retracting	S2/S20	51	90	141	247	415	686	1057	1750	2827	4418
	S2/S20	51	90	141	247	415	686	1057	1750	2827	4418
Max. Impact Energy At End Positions	S20	0.09	0.10	0.14	0.30	0.40	0.52	0.64	0.70	0.75	1.00
	S20	0.01	0.01	0.01	0.01	0.04	0.05	0.06	0.07	0.08	0.10
Structure Feature	piston,piston rod										
Cushioning	spring cushioning at both ends										
Position Sensing	with position sensing										
Type of mounting	Via through hole										
	Via female thread										
	Via mounting plate										
Mounting position	any										

Dimensions (mm)

basic type-ADVU  $\Phi$  12~100mm

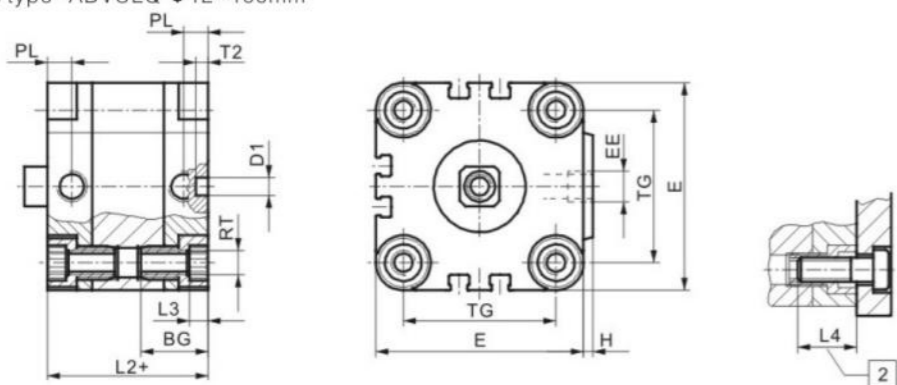
$\Phi$  125mm



\*Mini. Rotating depth 18mm  
Can not be screwed through with inner hex screws  
+=add working stroke

$\Phi$ (mm)	B d11	BG	D1 $\Phi$ H9G	E	EE	H	L2	L3	L4	MM $\Phi$	PL	RT	T2 -0.2	TG	VD	ZJ	$\approx$ 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  $\Phi$  12~100mm



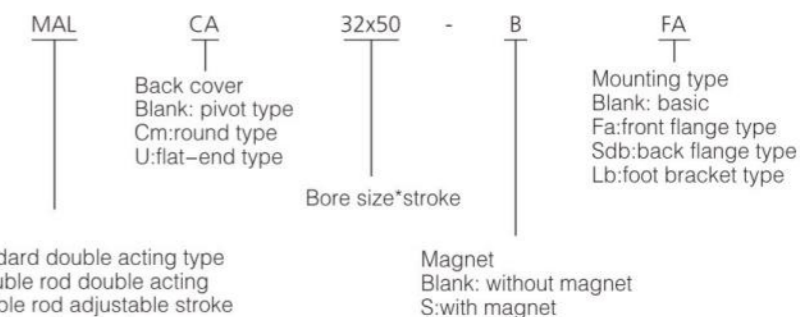
Notice: should be mount the cylinder from upper, and only use two screws on the cross or use non magnetic screw. +=add working stroke [2]Mini. Rotating depth

$\Phi$ (mm)	BG	D1 $\Phi$ 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



Series  
Mal: standard double acting type  
Mald: double rod double acting  
Malj: double rod adjustable stroke  
Msal: single acting push

Magnet  
Blank: without magnet  
S:with magnet

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

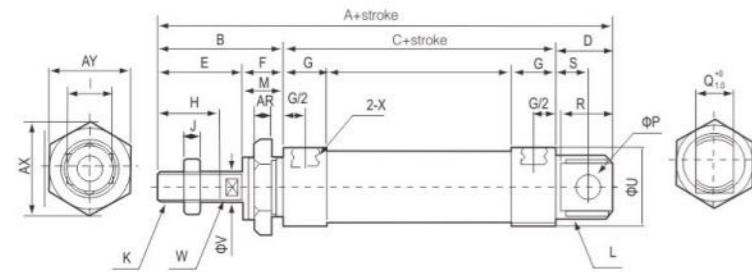
Bore size(mm)	16	20	25	32	40
Acting type	Double acting				
Working Medium	Air(to be filtered by 40 $\mu$ m filter element)				
Operating pressure	0.1~0.9Mpa(1~9kgf/cm <sup>2</sup> )				
Proof pressure	1.35Mpa(13.5kgf/cm <sup>2</sup> )				
Working temperature range	-5~60°C(unfreeze)				
Cushion type	Bumper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

Stroke

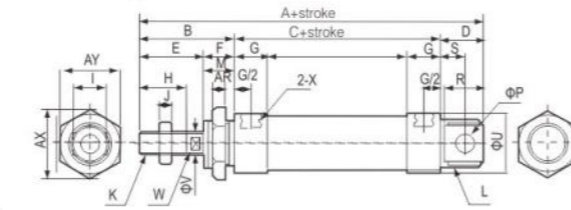
Bore size(mm)	Standard stroke(mm)	Max std stroke(mm)	Max stroke(mm)
12	25 50 75 100 125 150 175 200 250 300	500	800
16	25 50 75 100 125 150 175 200 250 300	500	800
20	25 50 75 100 125 150 175 200 250 300 350 400 500	800	1200
25	25 50 75 100 125 150 175 200 250 300 350 400 500	800	1200
40	25 50 75 100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

Dimensions (mm)

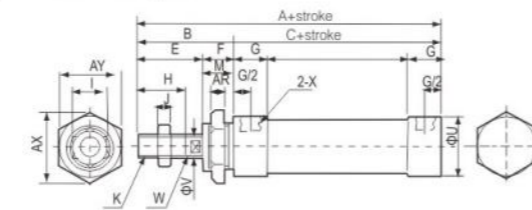
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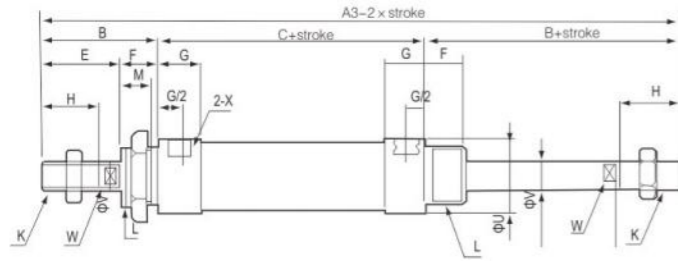
CM:round type



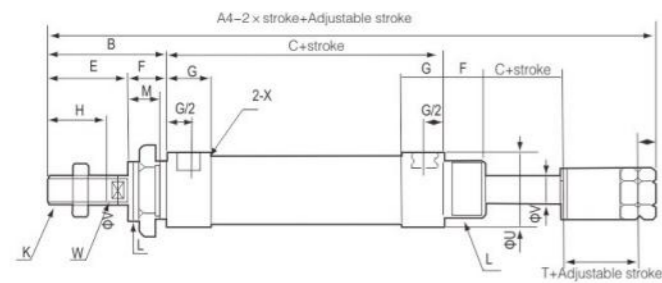
U:flat-end type



MALD:double rod double acting



MALJ:double rod adjustable stroke



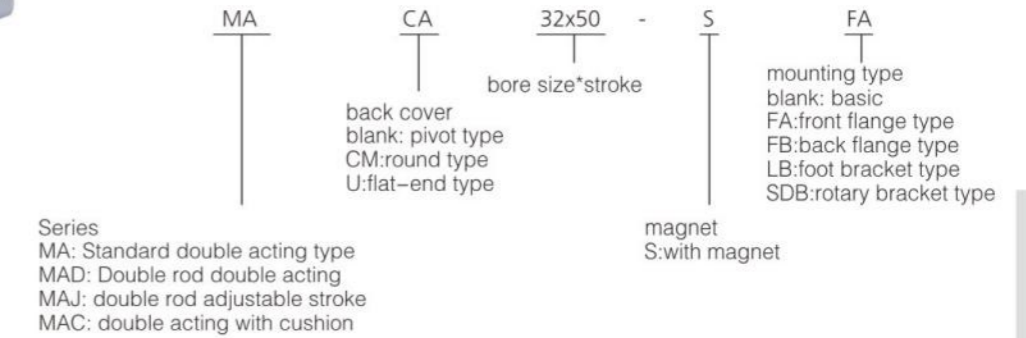
bore size(mm)	A	A1	A2	A3	A4	B	C	D	D1	E	F	G	H	I	J
16	107	108	92	131	137	40	51	16	16	24	16	10	16	10	5
20	131	122	110	150	147	40	70	21	12	28	12	16	20	12	5
25	135	128	114	158	154	44	70	21	14	30	14	16	22	17	6
32	141	128	114	158	154	44	70	21	14	30	14	-	22	17	6
40	143	130	116	162	160	46	70	27	14	32	14	-	24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



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

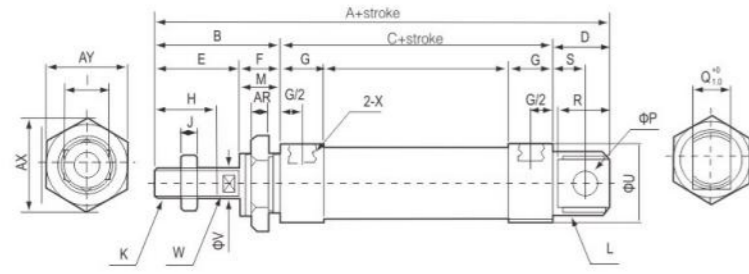
Bore size(mm)	16	20	25	32	40
Acting type	Double acting				
Working Medium	Air(to be filtered by 40 μ m filter element)				
Operating pressure	0.1~0.9Mpa(1~9kgf/cm <sup>2</sup> )				
Proof pressure	1.35Mpa(13.5kgf/cm <sup>2</sup> )				
Working Temperature range	-5~60°C(Unfreeze)				
Cushion type	without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

Stroke

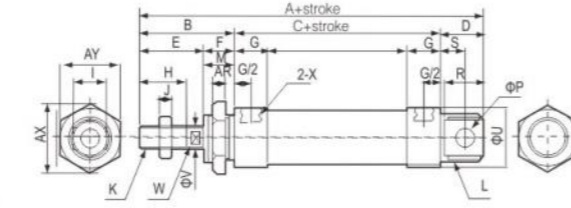
Bore size(mm)	Standard Stroke(mm)										Max std Stroke(mm)	Max Stroke(mm)	
16	25	50	75	100	125	150	175	200	250	300	500	800	
20	25	50	75	100	125	150	175	200	250	300	500	800	
25	25	50	75	100	125	150	175	200	250	300	350	400	500
32	25	50	75	100	125	150	175	200	250	300	350	400	500
40	25	50	75	100	125	150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

Dimensions (mm)

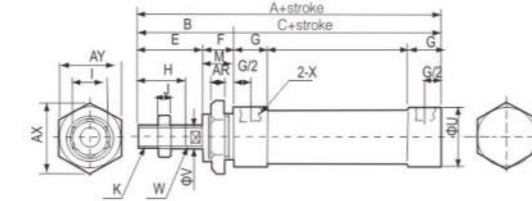
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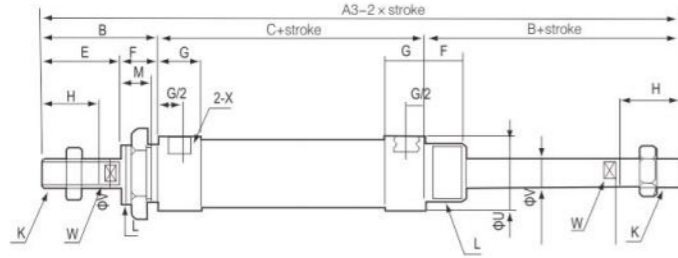
CM:round type



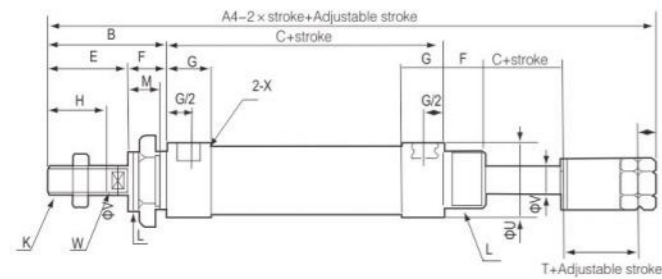
U:flat-end type



MALD:double rod double acting



MALJ:double rod adjustable stroke



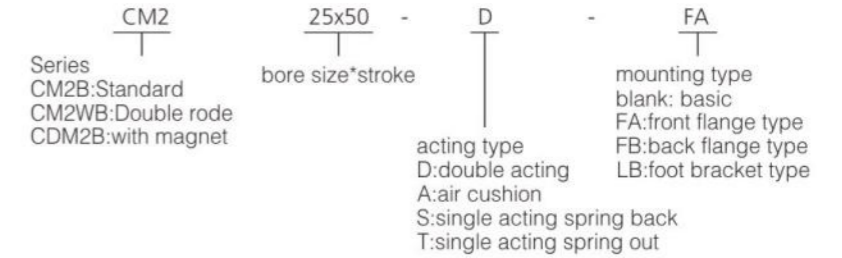
bore size(mm)	A	A1	A2	A3	A4	B	C	D	D1	E	F	G	H	I	J
16	107	108	92	131	137	40	51	16	16	24	16	10	16	10	5
20	131	122	110	150	147	40	70	21	12	28	12	16	20	12	5
25	135	128	114	158	154	44	70	21	14	30	14	16	22	17	6
32	141	128	114	158	154	44	70	21	14	30	14	16	22	17	6
40	143	130	116	162	160	46	70	27	14	32	14	16	24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



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 μm filter element)				
Operating pressure	0.1~0.9Mpa(1~9kgf/cm <sup>2</sup> )				
Proof pressure	1.35Mpa(13.5kgf/cm <sup>2</sup> )				
Working Temperature range	-5~60°C(Unfreeze)				
Cushion type	without Cushion				
Port size	M5	1/8"			1/4"
Body material	stainless steel				

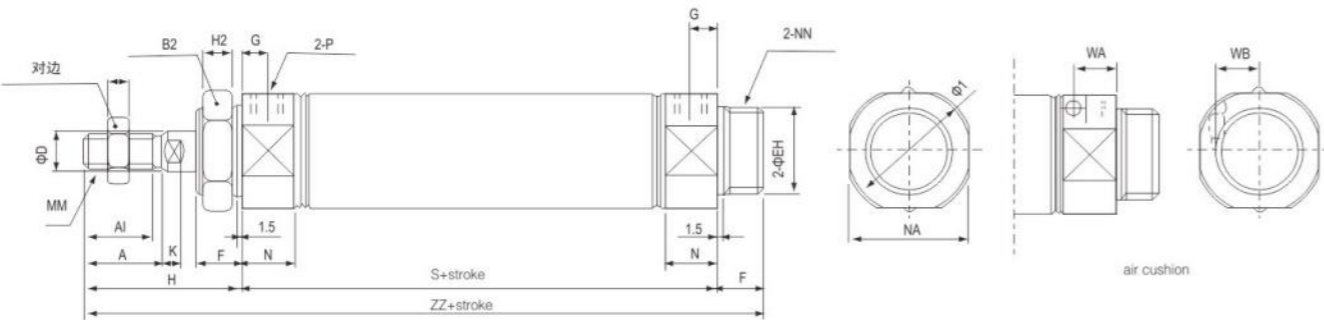
Stroke

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

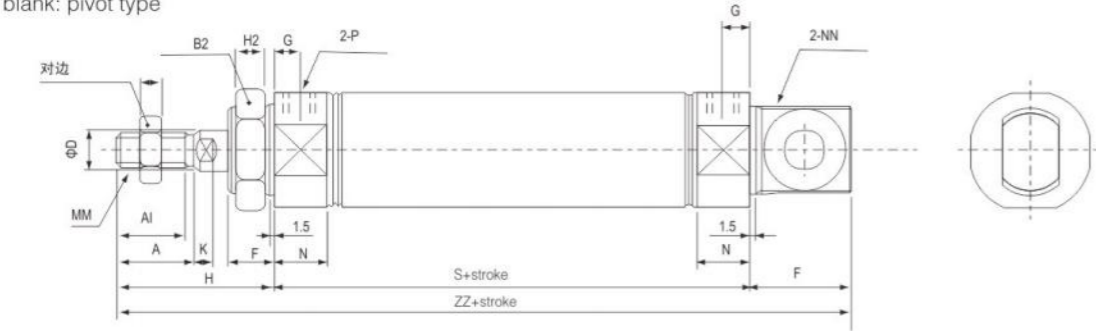


Dimensions (mm)

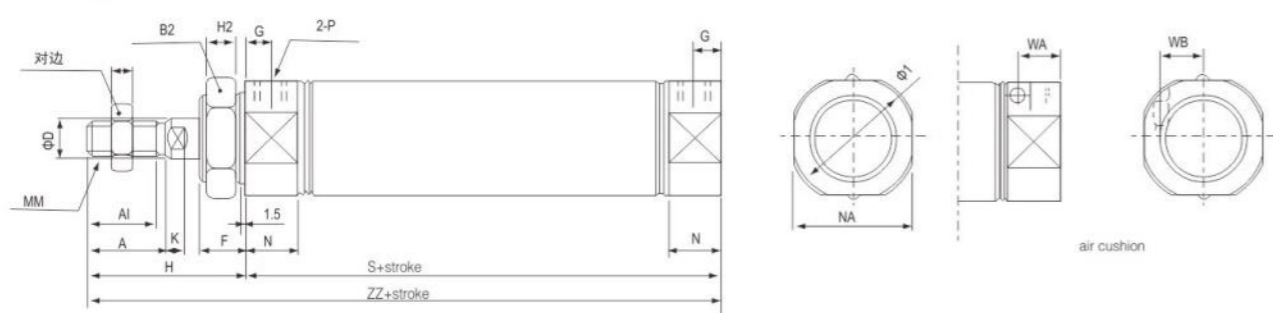
CM:round type



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		

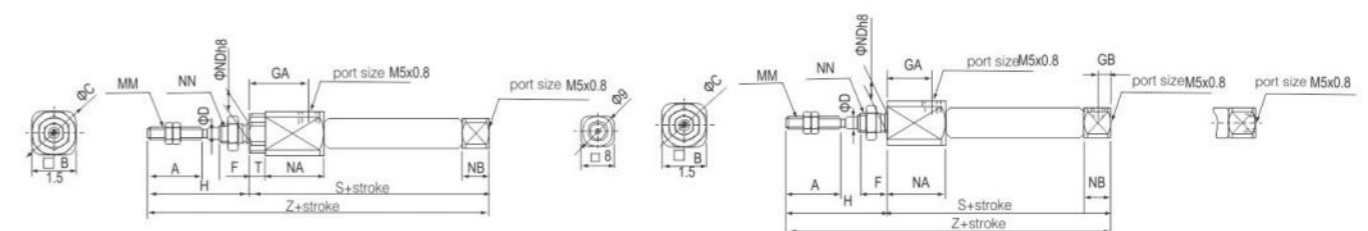
Specification

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 <sup>2</sup> )		
Proof pressure	1.05Mpa(10.5kgf/cm <sup>2</sup> )		
Working Temperature	-5~60°C(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 41 45 50 55 60 75 100 125

Dimensions (mm)



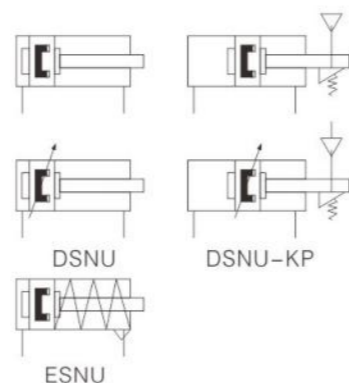
Bore size(mm)	A	B	C	D	F	GA	GB	H	MM	NA	NB	ND h8	MM	S	T	Z
6	15	12	14	3	8	14.5		28	M3x0.5	16	7	6	M6x1.0	49	3	77
10	15	12	14	4	8	8	5	28	M4x0.7	12.5	9.5	8	M8x1.0	46		74
16	15	18	20	5	8	8	5	28	M5x0.8	12.5	9.5	10	M10x1.0	47		75

DSN series round cylinder

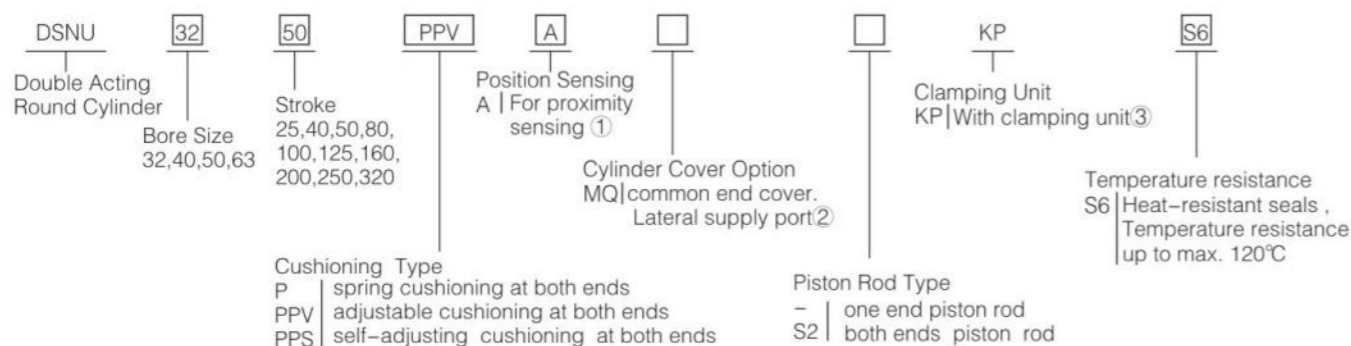


Good running performance and long service life  
Wide range of variants for customised applications  
Extensive range of accessories makes it possible to install the cylinder virtually anywhere

Symbol



Order Code



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

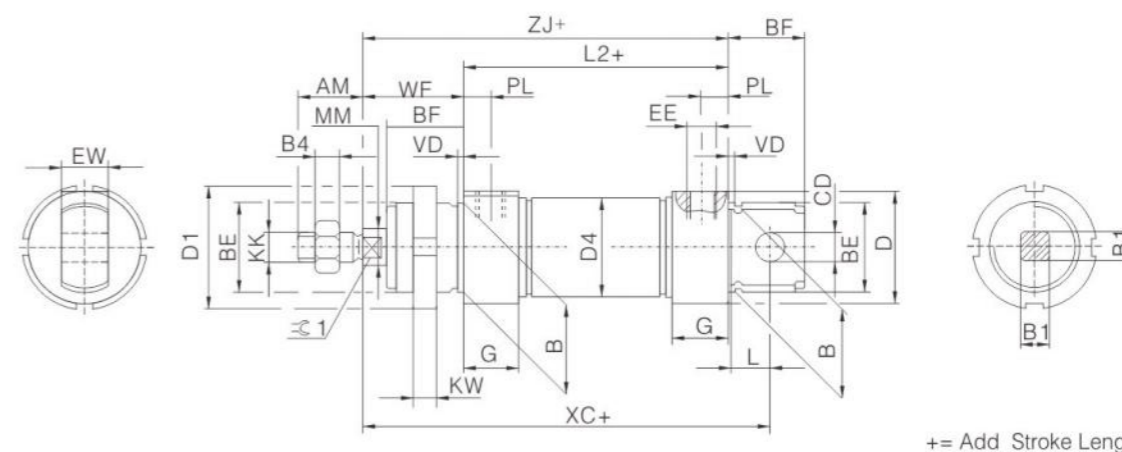
Specification

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 x 1.25	M12 x 1.25	M16 x 1.5	M16 x 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		
Working Pressure	DSNU,basic type,variant type 1...10		DSNU,S6	DSNU-...-KP 3...10	
Ambient temperature	-20...+80		0...+120	-10...+80	

Dimensions (mm)

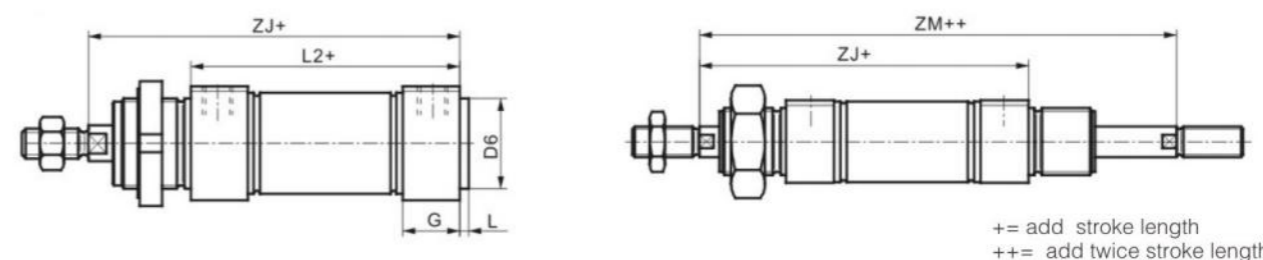
Basicx Type

Q-square Piston Rod



Mq-lateral Supply Port

S2-both Ends Piston Rod



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	D1Φ	D4 Φ	EE	EW	G
32	22	30	10	M30 x 1.5	26	10	38	42	33.6	G1/8	16	19
40	24	38	12	M38 x 1.5	30	12	46	50	41.6	G1/4	18	25
50	32	45	16	M45 x 1.5	33	16	57	60	52.4			
63							70	65.4				

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

TN Series double rod Cylinder

Order Code



TN Series - 25x20 bore size X stroke

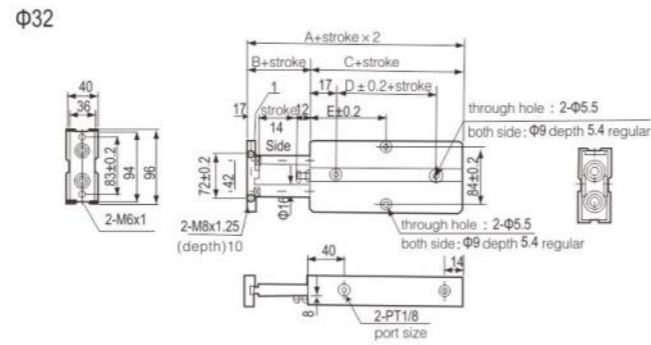
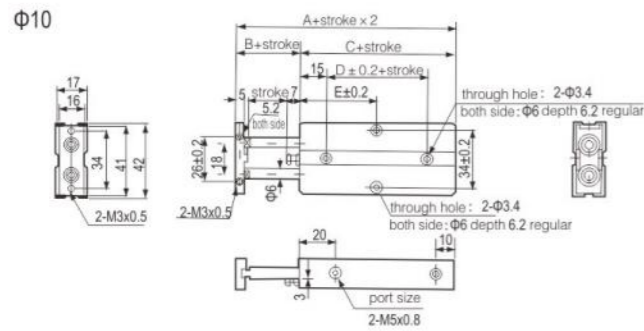
Specification

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 <sup>2</sup> )				
Proof pressure	1.35Mpa(13.5kgf/cm <sup>2</sup> )				
Working Temperature	-5~60°C(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	

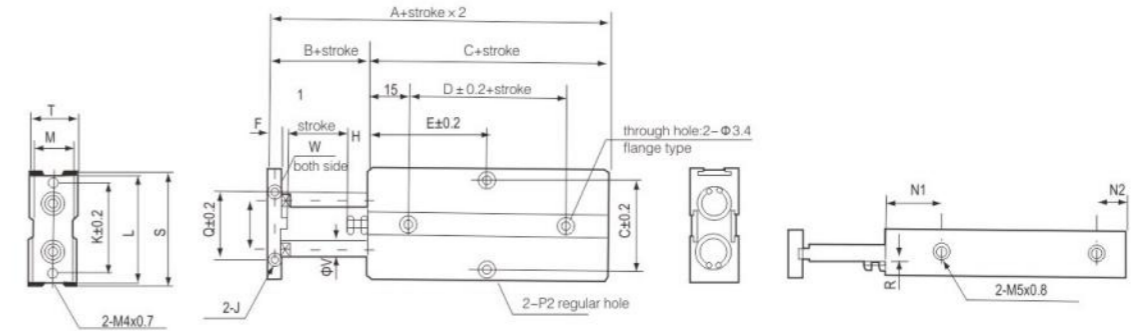
Dimensions ( mm )



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

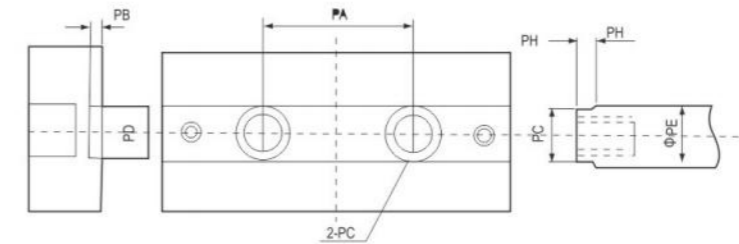
Bore size (mm)	A	B	C	D	stroke	10	20	30	40	50	60	70	80	90	100	125	150	175
10	108	30	78	35	E	45	50	55	60	65	70	75	80	85	95	102.5	115	122.5

Φ 16 Φ 25 Bore 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 × 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 × 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 × 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



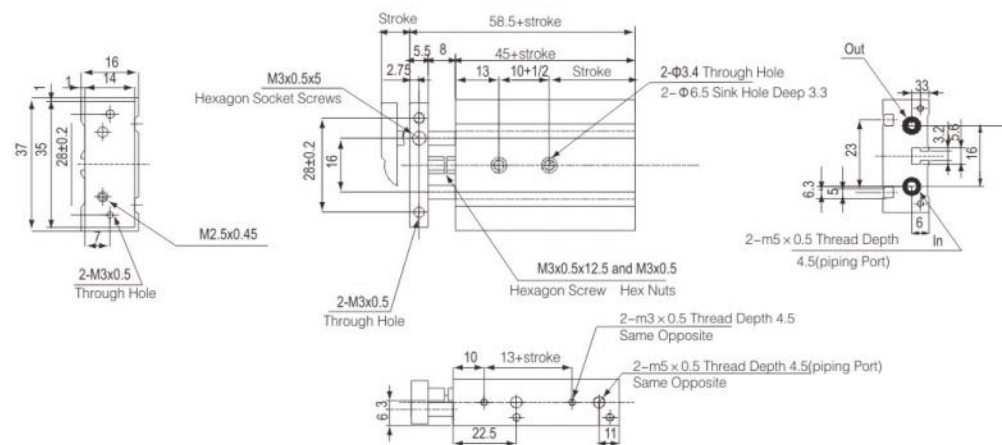
Order Code

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°C(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

Order Code: C D U K 6 □ - 30 D - A93 □

Magnet: Blank Without Magnet, D With Magnet

Stroke: 30

Port Thread Type: Sign Type Bore Size  
 Blank M Thread φ 6~ φ 25  
 TN NPT φ 32  
 TF G

Number Of Magnetic Switch: Blank 2pcs, S 1pcs

Magnetic Switch Type: Blank Without Magnetic Switch

Type: Blank Basic Type, K Non Return Type, W Double Rod Type, KW Double Rod Non Return Type

Bore Size: 6 φ 6mm, 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

\*single Acting Cylinder And Long Stroke Double Acting Cylinder Without W And Kw Type

\*please Refer To Table Of Stroke/magnetic Switch 'the Type Without Inner Magnetic Ring Didn' T Have This Item

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	
	Acting	Double Rod Non Return Air Cushion	0.15	0.10	0.08	
		Double Rod Non Return	0.18	0.13	0.11	
Mpa	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°C~60°C, with Magnetic Switch: -10°C~70°C					
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	

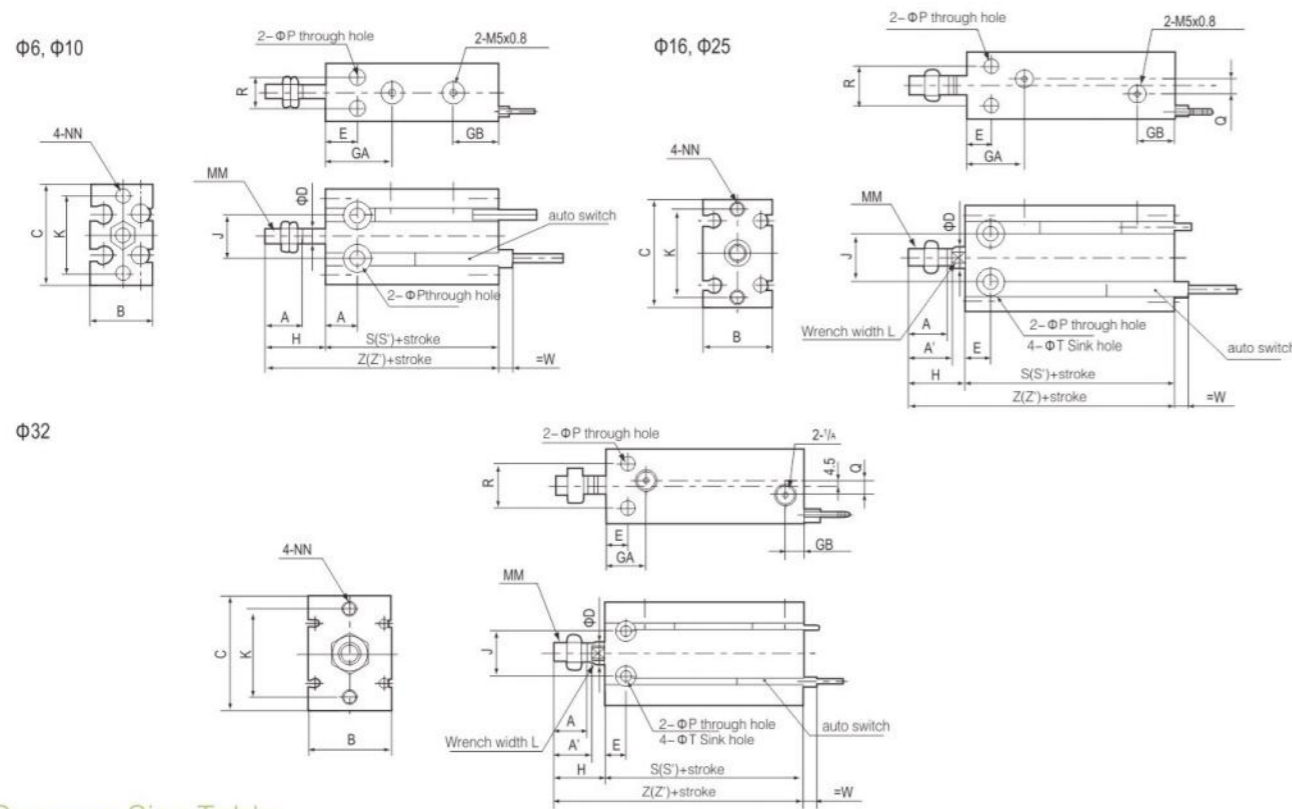
\*For Oil, Please Use Turbine No. 1 Oil Isovg32

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				
20	5, 10, 15, 20, 25, 30, 40, 50	60, 70, 80, 90, 100		
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	M3×0.5 depth 5	3.2	-	7	6 depth 4.8
C□U10	10	-	15	24	4	7	16.5	10	11	18	-	M4x0.7	M3×0.5 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	M4×0.7 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	M5×0.8 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	M5×0.8 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	M6×1.0 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'
		5st	10st	15st	5st	10st
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	W	5st	10st	15st	5st	10st	15st
C□U6-□S	13	38	38	48	51	56	61	2.5	38	43	48	51	56	61
C□U10-□S	16	41	41	56	57	62	72	1	41	46	56	57	62	72
C□U16-□S	16	35	35	50	51	56	66	0	45	50	60	61	66	76
C□U20-□S	19	41	41	56	60	65	75	1	51	56	66	70	75	85
C□U25-□S	23	45	45	60	68	73	83	-1	55	60	70	78	83	93
C□U32-□S	27	47	47	62	74	79	89	-4	57	62	72	84	89	99

Single Acting Spring Out Size Table

Model	H		Standard Type						With Magnet Type							
			S			Z			S'			Z'				
			5st	10st	15st	5st	10st	15st	W	5st	10st	15st	5st	10st	15st	
C□U6-□T	18	23	28	38	43	48	56	66	76	2.5	38	43	48	56	66	76
C□U10-□T	21	26	31	41	46	56	62	72	87	1	41	46	56	62	72	87
C□U16-□T	21	26	31	45	50	60	66	76	91	0	45	50	60	66	76	91
C□U20-□T	24	29	34	41	46	56	65	75	90	1	51	56	66	75	85	100
C□U25-□T	28	33	38	45	50	60	73	83	98	-1	55	60	70	83	93	108
C□U32-□T	32	37	42	47	52	62	79	89	104	-4	57	62	72	89	99	114

MGP Series Compact Guide Cylinder



Order Code

MPG Series      M      -      25x300  
 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	D-Z73									
Auto switch	D-Z73									

Specification

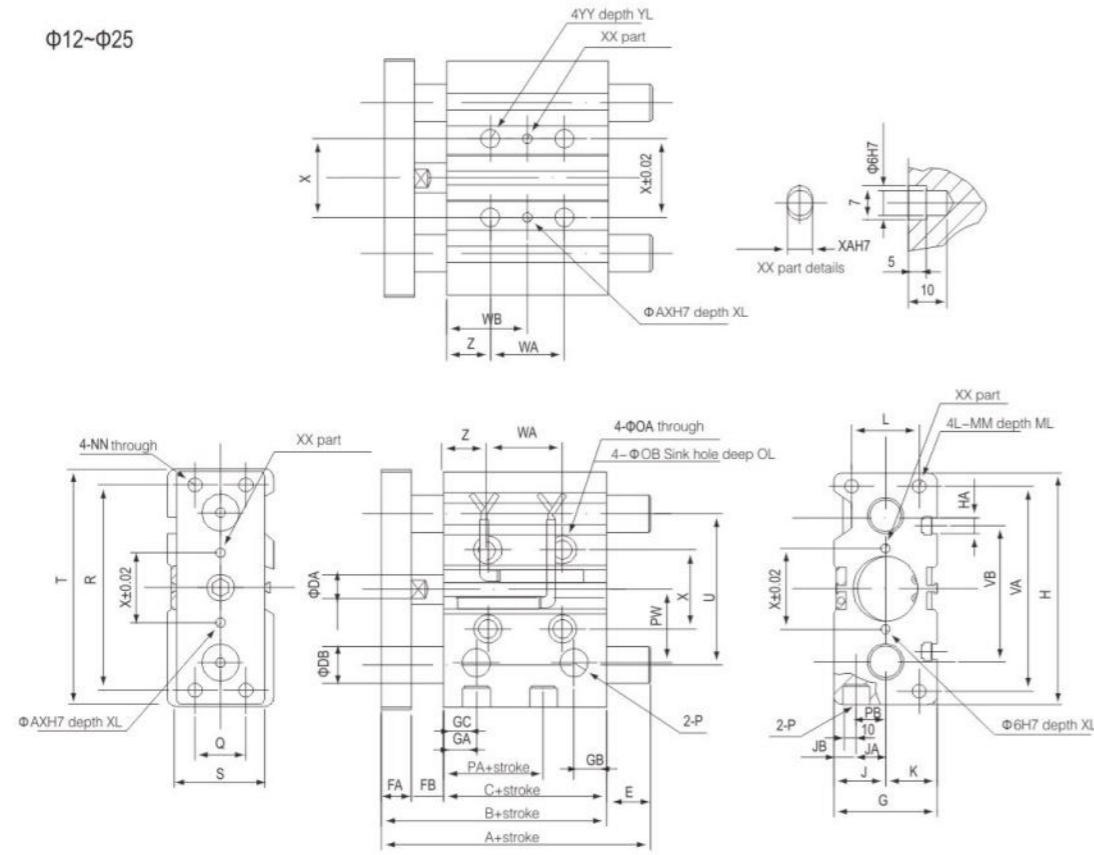
Bore size(mm)	12	16	20	25	32	40	50	63	80	100
Working Medium	Air(to be filtered by 40 μ m filter element)									
Acting type	double acting									
Max working pressure	1.0Mpa									
Min working pressure	0.12Mpa					0.1Mpa				
Ambient and Working Medium temperature	-5~60°C(Unfreeze)									
Operating 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°	± 0.05°	± 0.05°	± 0.05°	± 0.05°
	Ball Bearing	± 0.10°	± 0.09°	± 0.08°	± 0.06°	± 0.06°	± 0.06°	± 0.06°	± 0.06°	± 0.06°
Port size	M5x0.8			1/8			1/4		3/8	
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

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

MGPM(Sliding bearing)A,DB,E

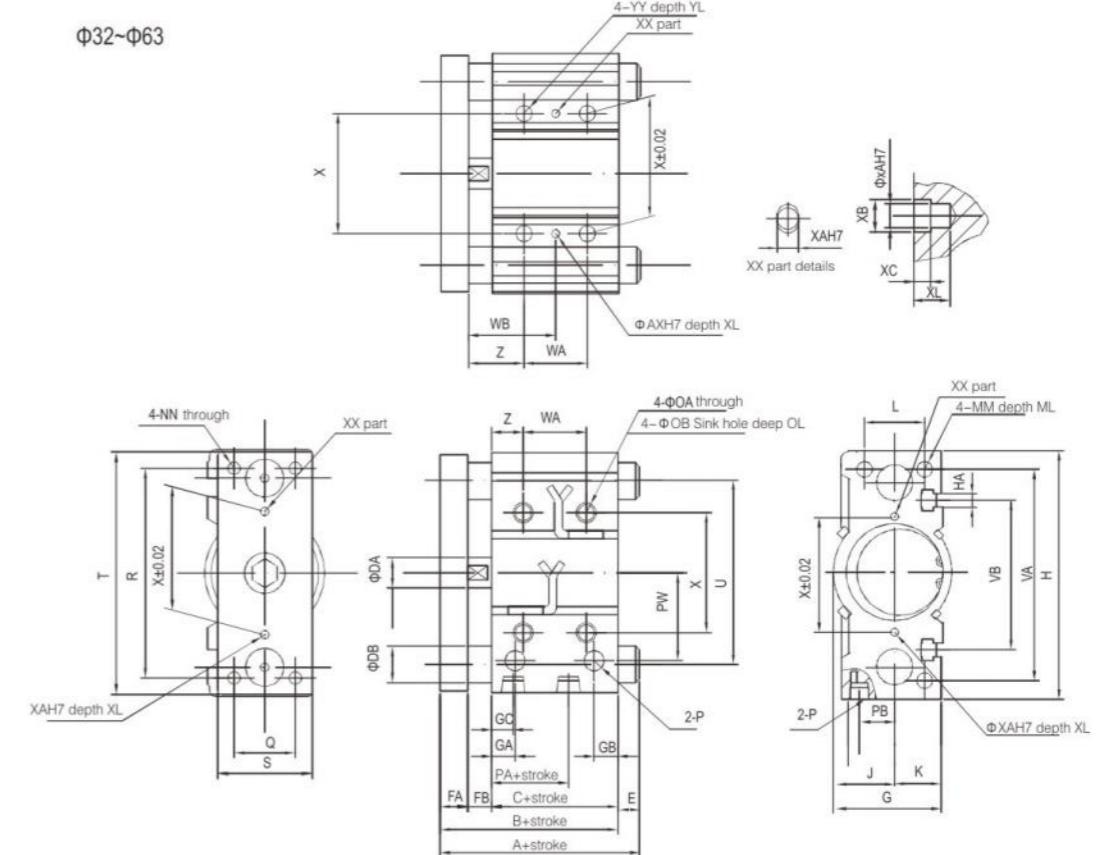
Bore Size(mm)	A			DB	E		
	50st- or less	50st~ 100st	over 100st		50st- or less	50st~ 100st	over 100st
12	53	84.5	122	12	0	31.5	69
16	53.5	85	122	16	0	31.5	68.5

MGPL(ball bearing)A,DB,E

Bore Size(mm)	A				DB	E			
	30st- or less	30st- 100st	100st- 200st	over 200st		30st- or less	30st- 100st	100st- 200st	over 200st
12	63	80	104	122	10	10	27	51	69
16	69.5	85.5	104.5	122	13	10	32	51	68.5

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	100st- 200st	over 200st		50st- or less	50st~ 100st	100st- 200st	over 200st
32	81	98	118	140	16	21.5	38.5	58.5	50.8
40	81	98	118	140	16	15	27	52	74
50	93	114	134	161	20	21	42	52	89
63	93	114	134	161	20	16	76	57	84

## AC Series Shock Absorber



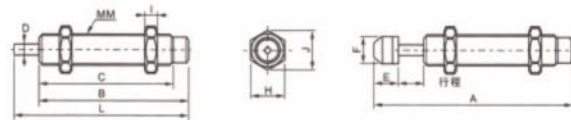
### Order Code

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

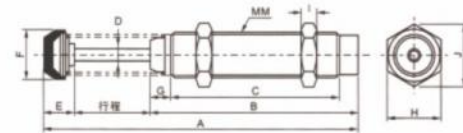
### Technical Specification

Model	Thread Size	Stroke Mm	Max. Absorbing Energy Nm	Valid Weight Value We(kg)	Tolerance Speed M/sec	Tolerance Speed Nm	Working Temperature °C
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

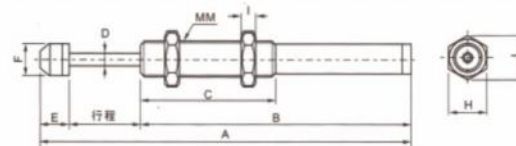
### Dimensions (mm)



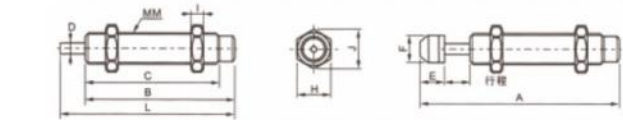
Model	Basic Type	With Hit Head	Hex Nut									
Basic Type	With Hit Head Mm	L	B	C	D	A	E	F	H	I	J	
AC0806-n	AC0806	M8x1.0	44	38	33	3	50.5	6.5	6.7	11	3	12.6
AC1005-n	AC1005	M10x1.0	33	28	23.5	3	39	6	8.7	12.7	3	14.5
AC1008-n	AC1008	M10x1.0	51	43	38.5	3	57	6	8.7	12.7	3	14.5
AC1210-n	AC1210	M12x1.0	60	50	45.5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



Model	Basic Type	Hex Nut									
Model	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								
Model	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



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

## ACD Series Shock Absorber



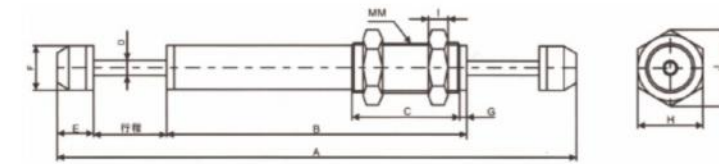
### Order Code

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

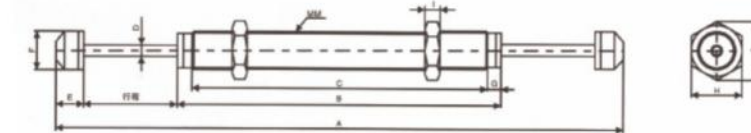
### Technical Specification

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

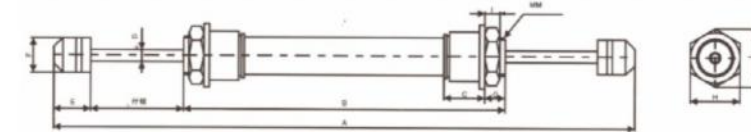
### Dimensions (mm)



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



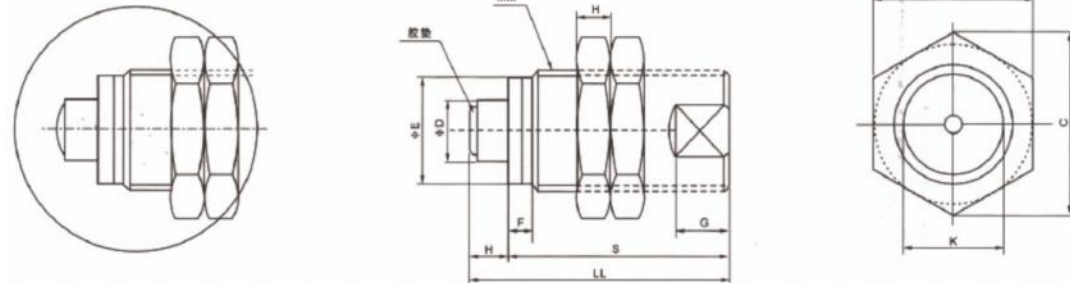
RBC	C	20	07	□
series code	No mark: basic type C: Rubber cushion	body thread	stroke	no mark:without S:with limited nut J:extra hex nut 1 PC(total 3 PCS)

#### 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

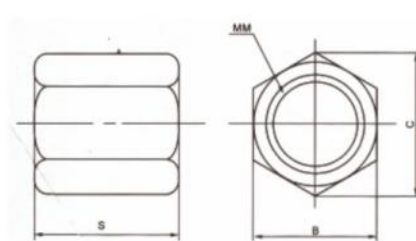
#### Dimensions ( mm )

Basic Type



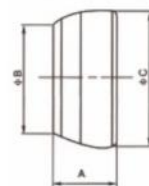
Model	Dimension										Hex Nut			
	Basic Type	With Glue Type	D	E	F	H	K	G	LL	MM	S	B	C	H
RB1604	RBC1604	6	14.2	3.5	4	14	7	31	M16x1.5	27	22	25.4	6	
RB2007	RBC2007	10	18.2	4	7	18	9	44.5	M20x1.5	37.5	27	31.2	6	
RB2508	RBC2508	12	23.2	4	8	23	10	52	M25x1.5	44	32	37	6	
RB3009	RBC3009	16	28.3	5	8.5	28	12	61.5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

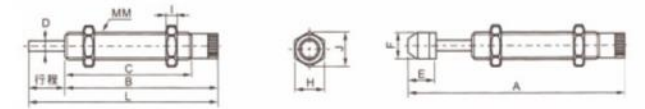


AD	25	25	1	N
series code FC:adjustable type	sleeve female thread	Impact Stroke	Impact Speed 1.high Speed 2.medium Speed 3.low Speed	Buffer Cap Blank:with Buffer Cap N:without Buffer Cap

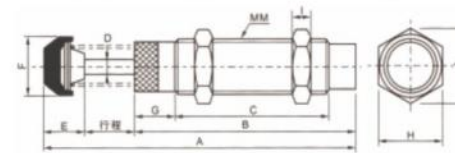
#### Specification

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	29~120	3.2	27000	-10~+80
AD1412	M14x1.5	12	20	29~120	3.2	27000	-10~+80
AD1416	M14x1.5	16	22	29~150	3.2	27000	-10~+80
AD1420	M14x1.5	20	22	29~150	3.2	27000	-10~+80
AD1425	M14x1.5	25	25	29~150	3.2	27000	-10~+80
AD2016	M20x1.5	16	28	55~224	3.2	33600	-10~+80
AD2020	M20x1.5	20	35	68~280	3.2	42000	-10~+80
AD2025	M20x1.5	25	40	79~330	3.2	50000	-10~+80
AD2030	M20x1.5	30	45	85~450	3.2	58000	-10~+80
AD2060	M20x1.5	50	60	125~500	3.2	60200	-10~+80
AD2525	M25x1.5	25	78	152~624	3.5	70200	-10~+80
AD2530	M25x1.5	30	105	184~785	3.5	79000	-10~+80
AD2540	M25x1.5	40	122	238~976	3.5	87800	-10~+80
AD2550	M25x1.5	50	148	242~1048	3.5	96700	-10~+80
AD2580	M25x1.5	80	190	161~1100	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

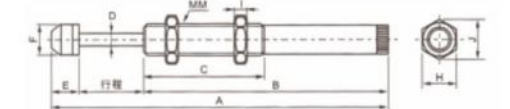
#### Dimensions ( mm )



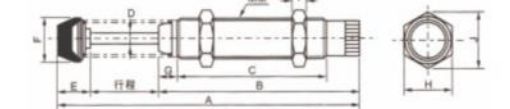
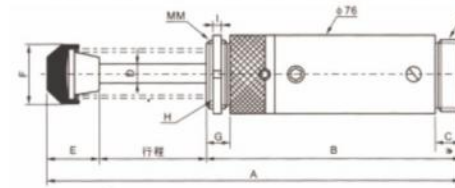
Model	Basic Type	With Hit Head	Basic Type						With Hit Head						Hex Nut		
			With Hit Head	MM	L	B	C	D	A	E	F	H	I	J			
AD1410-N	FC1410	M14x1.5	90.8	80.8	69	3.5	103.8	13	12.2	19	6.5	21.6					
AD1412-N	FC1412	M14x1.5	92.8	80.8	69	4	105.8	13	12.2	19	6.5	21.6					
AD1416-N	FC1416	M14x1.5	113.8	97.8	86	4	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					
AD2060-N	FC2060	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	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	MM	Dimension						Hex Nut				
		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		
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		

Model	MM	Dimension						Hex Nut				
		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

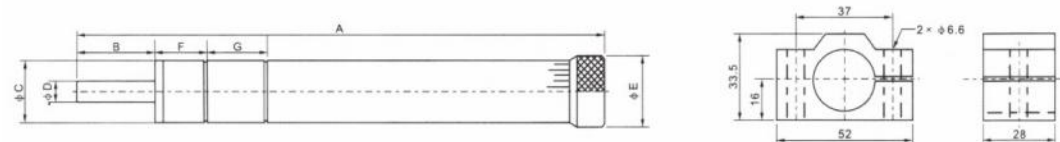
SR	-	30
Series		stroke
SR:adjustable hydraulic stabitizer		15:15mm 30:30mm 60:60mm 80:80mm 100:100mm

- 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°C
SR-15	15mm	15~350kgf/cm <sup>2</sup>	0.5~30mm/s(Load)100kg	0.23kgf/m	-10~80
SR-30	30mm	15~350kgf/cm <sup>2</sup>	0.5~30mm/s(Load)100kg	0.23kgf/m	-10~80
SR-60	60mm	15~350kgf/cm <sup>2</sup>	0.5~30mm/s(Load)100kg	0.23kgf/m	-10~80
SR-80	80mm	15~350kgf/cm <sup>2</sup>	0.5~30mm/s(Load)100kg	0.23kgf/m	-10~80
SR-100	100mm	15~350kgf/cm <sup>2</sup>	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°C	15~350kgf
HR30	206	30	24	10	28.5	18	24	30	0~60°C	15~350kgf
HR60	285	60	24	10	28.5	18	24	60	0~60°C	15~350kgf
HR80	337	80	24	10	28.5	18	24	80	0~60°C	15~350kgf
HR100	398	100	24	10	28.5	18	24	100	0~60°C	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	40 μm(standard)
AVB Series 2000~4000 Type		
U Series 02~08 Type		
200~400 Series		

Accessories



2000~5000 Type Auto Drain Series

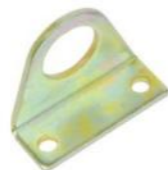


Regulated Handle

Cylinder Accessories

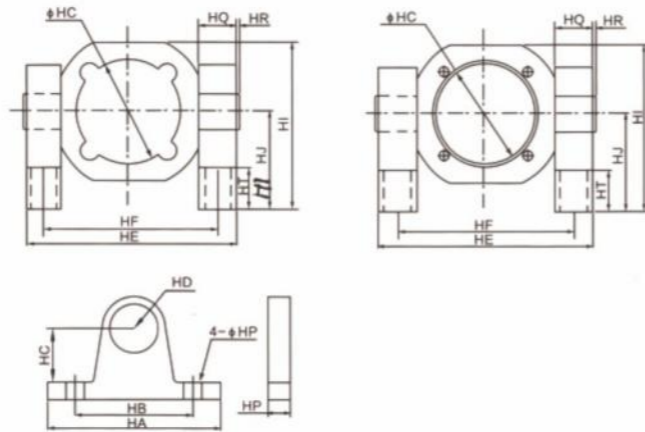


Model	Model	Model	Model
CS1 Series Sensor Switch	D Series Sensor Switch	Sensor Switch Bracket	Sensor Switch Bangle



Model	Model	Model	Model	Model
Floating Joint	Fisheye Joint	LB type bracket	SDB Single earring with base (MAL type)	LB bracket

SCSeries TC-M

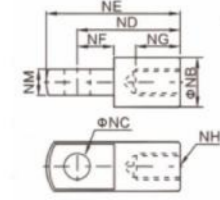
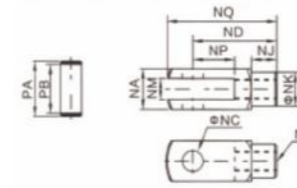


bore size/mark	32	40	50	63	80	100	125	160	200
HA	110	112	112	112	121	121	146	187	187
HB	80	83	83	83	86	86	110	140	140
HP	11	11	11	11	14	14	16	22	22
HD	12	25	25	25	25	25	30	32	32
HC	50	50	50	50	70	70	85	132	132
HI	23	23	23	23	23	23	24	32	32

SC Series Standard Cylinder Accessories

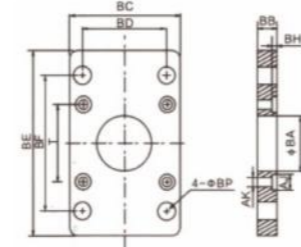
Y Joint TIE-IN

I Joint TIE-IN



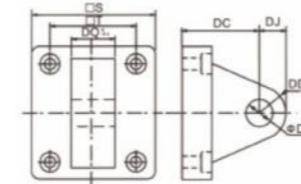
Bore Size/mark	NA	NC	ND	NH	NJ	NK	NM	NP	NQ	PA	PB	NB	NC	ND	NE	NF	NG	NH	NM
32	19	Φ10	40	M10X1.25	14	17	10	20	52	28	19.5	18	10	43	52	16	20	M10X1.25	10
40	23	Φ12	48	M12X1.25	17	22	12	24	62	32	26	22	12	52	63	21	20	M12X1.25	12
50/63	31	Φ16	64	M16X1.5	24	26	16	31	80	41	33	26	16	59	73	23	23	M16X1.5	16
80/100	39	Φ20	80	M20X1.5	31	32	21	39	100	48	45	32	20	86	102	35	30	M20X1.5	20
125	60	Φ25	98	M27X2	31	38	36	40	119	71	51	49	25	100	127	44	45	M27X2	34
160/200	75	Φ30	125	M36X2	45	51	43	43	150	86	81	67	30	133	167	40	50	M36X2	40
250	90	Φ40	130	M42X2	60	69	52	50	170	107		80	40	135	175	50	70	M42X2	50

FA/FB Flange



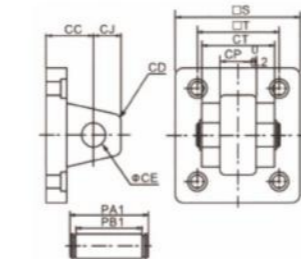
Bore Size/mark	32	40	50	63	80	100	125	160	200	250
BA	29.5	34	40	40	50	50	62	66	81	93
BB	10	10	10	12	15	16	18	20	25	30
BC	47	50	65	75	95	115	140	180	220	280
BD	33	36	47	56	70	84	90	115	135	165
BE	72	84	104	116	143	162	224	280	320	385
BF	58	70	86	98	119	138	180	230	270	330
BH	6.5	6.5	6.5	8.5	10.5	10.5	15	20	20	-
AJ	10.5	10.5	10.5	13.5	16.5	16.5	19	25	25	-
AK	6.5	6.5	6.5	8.5	10.5	10.5	12.5	16.5	16.5	M20
BP	7	7	9	9	11	11	16	18	19	26
T	33	37	47	56	70	84	110	140	175	220

CA Single Earring



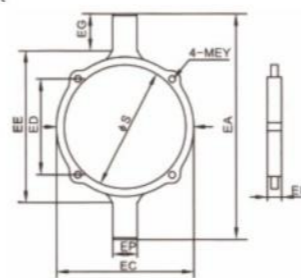
Bore Size/mark	32	40	50	63	80	100	125	160	200	250
S	48	50	62	75	94	112	140	180	220	280
T	33	37	47	56	70	84	110	145	180	225
DC	34	34	34	34	48	48	50	55	60	70
DD	14	14	15	15	20	20	25	30	30	40
DE	12	14	14	14	20	20	25	30	30	40
DJ	14	14	15	15	20	20	25	30	30	40
DQ	16	20	20	20	32	32	70	90	90	110

CB Double Earring



Bore Size/mark	32	40	50	63	80	100	125	160	200	250
CC	19	19	19	19	32	32	50	55	60	70
CD	5	5	3	3	8	8	25	30	30	40
CE	12	14	14	14	20	20	25	30	30	40
CJ	13	13	15	15	21	21	25	30	30	40
DQ	16.3	20.3	20.3	20.3	32.3	32.3	70	90	90	110
CT	32	44	52	52	64	64	120	160	160	200
PA1	4.1	52	59	63	71	71	128	180	182	240
S	48	50	62	75	94	112	140	180	220	280
T	33	37	47	56	70	84	110	145	180	225

TC Middle Swaying Shaft



Bore Size/mark	EA	EC	ED	EP	S	EG	EI	EY	EE
32	87	53	33	12	38	16	20	M6	54
40	108	60	37	25	46	24	30	M6	57
50	115	70	47	25	55	24	30	M6	67
63	138	86	56	25	70	25	30	M8	81
80	163	111	70	25	87	25	30	M10	100
100	180	130	84	25	108	25	30	M10	124
125	213	161	110	30	134	26	36	M12	146
160	266	202	145	32	174	32	40	M16	195
200	322	250	180	32	216	36	50	M16	243
250	396	300	225	40	273	40	51	M20	313