



» Air Filter, Regulator & Lubricator

- Adjust the spring force on the diaphragm to set the appropriate regulated pressure.
- The design of the FRL allows you to refill the lubricator without ever stopping your device.
- The polycarbonate, water and oil bowl offers better resistance.
- The E/EI series FRL supports more than 9Bar and offers an extended lifecycle during use while typical FRL oilers degrade in high pressure environments.

How to Use and Maintain

- 1. Before use,check the unit to see if there is some damage during the transportation,or if the joint connection is loose.If everything be ok,then start to use.
- 2. When installing ,please pay attention to the direction of airflow and keep the unit upright.
- 3. When the inlet and outlet are in reduced connection,the airflow rate will be reduced approx by 10%.If with higher rate of precision,the airflow rate will be reduced approx by 7%.
- 4. For units with bowl guards,make sure to fixed them before use.
- 5. When use the regulator or filter and regulator.Firstly, we need to adjust the hand wheel to the zero position.
Fix the pressure gauge and plugs on the right positions and ensure no leakage.
(positions of the pressure gauge and plug can be exchanged) Then compressed air in and adjust the air to a proper pressure.
- 6. When using the lubricator ,we need to adjust the oil valve needle to the zero position and add oil to the oil level line first.Then adjust to a proper postion when compressed air in .Pay attention to the brand and grade of the lubricating oil.Never use spindle oil and lubricating oil containing lower ketone or aromatic hydrocabon.
- 7. When using metal tubes for connection,remember to remove the metal grains,dusts and oil stains in the tubes.
- 8. Please attention whether the working condition meet the technical details of the units.(Such as the working pressure,working temperature)
- 9. Please change the filter element when filter's function not goes well.
- 10.When remove the units from the system,pls pay attention to protect the units by the dust plug on the threads.

How to Order

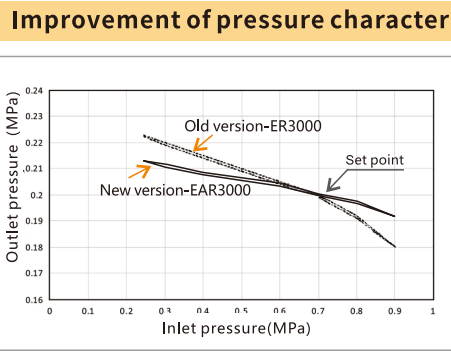
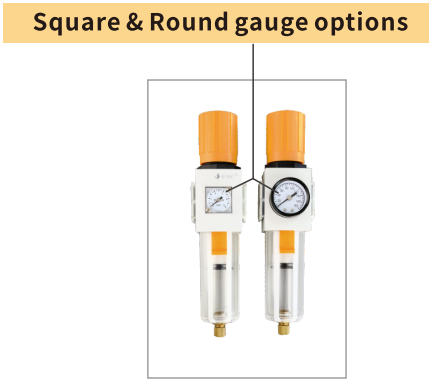
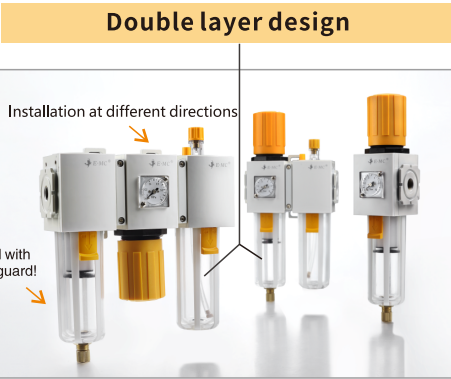
- 1. Please let us know the item No,order number,specifications and quantity when placing an order.
- 2. For orders of filter,regulator and regulator+filter etc., please specify the filter precision and pressure range.
Otherwise,we will provide the our normal standard products to you.
- 3. For special requirements,you can contact us by e-mail,fax and so on. We can discuss together and arrange specially.

Remarks

- 1. The regulator and lubricator not with the drain type code and filter precision code.
- 2. The filter and lubricator without pressure scale unit code.
- 3. The three units and two units, without bracket code
- 4. When with type code of "C" , combination quantity code "10" is for two units and "00" for three units, others all with "00".

EA

Air Preparation Unit

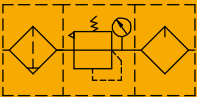


Product Features

- 1. Unique diversion structure, greatly improve the efficiency of water distribution
- 2. The transparent plastic cover brings convenient observation, rustless and anti-corrosion .
- 3. Special diaphragm design leads the pressure adjustment to a reliable and high precise performance.
- 4. Special drip nozzle design offers stable oil dripping and mist creating at low flow rate.
- 5.Adding oil even if air supplying.
- 6. Round gauge and Square gauge are optional.
- 7. Manual Drain, Semi-auto drain, and Auto-drain are optional.

EAC2000 EAC3000 EAC4000

F.R.L Unit



Specifications

Model	EAC2000-01	EAC2000-02	EAC3000-02	EAC3000-03	EAC3000-04	EAC4000-03	EAC4000-04	EAC4000-06
Working Medium	Clean Air(after 40 μm filtration)							
Proof Pressure(MPa)	1.5							
Working Pressure Range(MPa)	0.15~1.0							
Pressure Adjustment Range(MPa)	0.05~0.9,Low pressure type 0.05~0.4							
Working Temperature(℃)	-5~60 (No freezing)							
Filter Precision	40 μm/5 μm optional							
Recommended Oil	Turbine No.1 Oil, ISO VG32							
Bowl Material	PC(Polycarbonate)							
Water Bowl Capacity(CC)	11		40			75		
Oil Bowl Capacity(CC)	30		76			183		
Weight(g)	551		1245			2284		
Component	Filter	EAF2000-01	EAF2000-02	EAF3000-02	EAF3000-03	EAF3000-04	EAF4000-03	EAF4000-04
	Regulator	EAR2000-01	EAR2000-02	EAR3000-02	EAR3000-03	EAR3000-04	EAR4000-03	EAR4000-04
	Lubricator	EAL2000-01	EAL2000-02	EAL3000-02	EAL3000-03	EAL3000-04	EAL4000-03	EAL4000-04

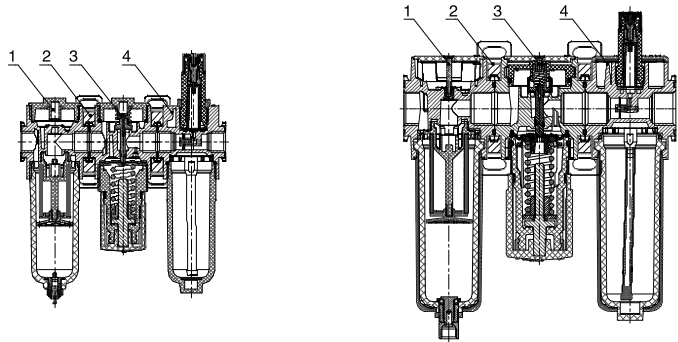
How to Order?

Series No.	Port Size	Drain Type	Type No.	Pressure Gauge	Pressure Gauge Type	Scale Unit	Filter Precision	Thread Type
EAC2000:EA2000 series F.R.L Unit EAC3000:EA3000 series F.R.L Unit EAC4000:EA4000 series F.R.L Unit	2000 01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2" 06: 3/4"	Blank: Manual drain type C: Semi-auto drain D: Auto Drain type①	Blank: Standard type	Blank: With pressure gauge N: No pressure gauge	F: Square pressure gauge Y: Round pressure gauge	② Square pressure gauge optional Round pressure gauge optional	Blank: 40 μm 5M: 5 μm	Blank: G P: PT T: NPT
						1: MPa 2: Bar 3: Psi 4: Mpa/Psi 5: Bar/Psi		

Order Example:

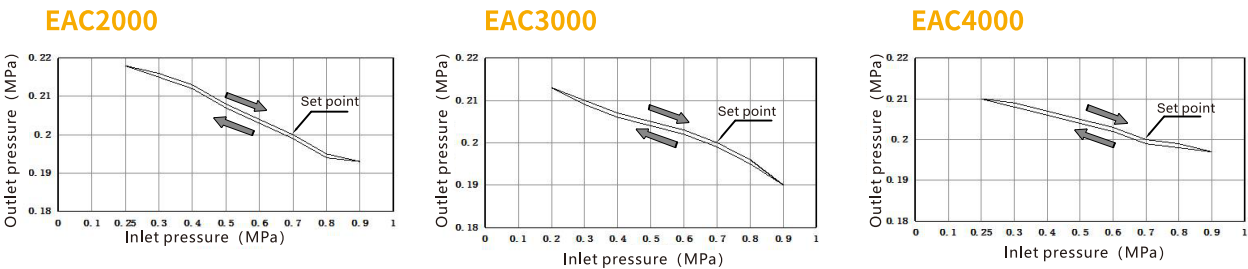
EA series F.R.L unit, port size of 1/2", differential pressure drain type, with square pressure gauge, Mpa, 5 μm, G thread, the ERP code: EAC3000-04CF15M
Remark: ①2000 series without automatic drainage type
②Square pressure gauge is single scale, round pressure gauge is double scale.

Internal Structure

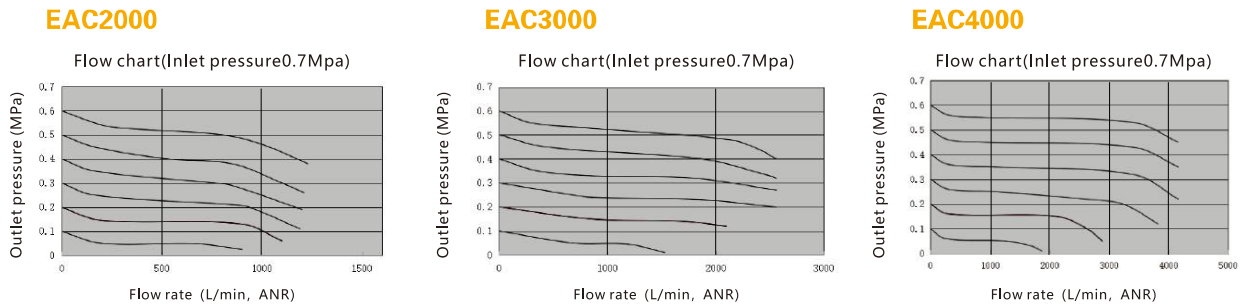


No.	Part Name
1	EA series filter
2	T type bracket
3	EA series regulator
4	EA series lubricator

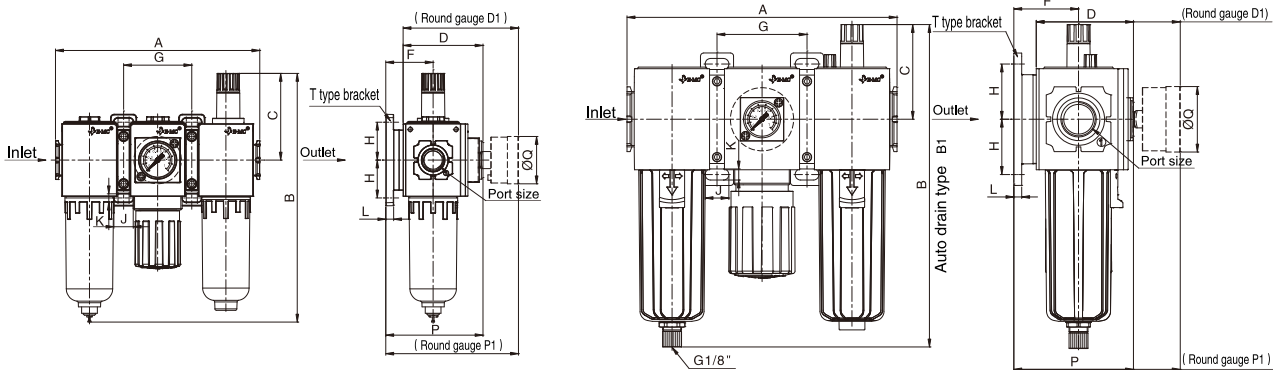
Pressure Feature



Flow Chart



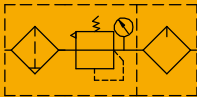
Main Dimensions



Model	Port Size	A	B	B1	C	D	D1	F	G	H	J	K	L	P	P1	Q
EAC2000	1/8", 1/4"	129	157.5	-	54.9	73	73	30	43	24	12.5	5.5	5	61.6	84	30
EAC3000	1/4", 3/8", 1/2"	171	204.2	201.5	60	61.6	91.2	41	57	35	15	7	5	75.8	105.4	41.5
EAC4000	3/8", 1/2", 3/4"	240	227.8	222.1	63	82.1	110.7	50	80	40	18	9	7	95.3	123.8	41.5

EAC2010 EAC3010 EAC4010

FR.L Unit



Specifications

Model		EAC2010-01	EAC2010-02	EAC3010-02	EAC3010-03	EAC3010-04	EAC4010-03	EAC4010-04	EAC4010-06
Working Medium		Clean Air(after 40 μ m filtration)							
Proof Pressure(MPa)		1.5							
Working Pressure Range(MPa)		0.15~1.0							
Pressure Adjustment Range(MPa)		0.05~0.9,Low pressure type 0.05~0.4							
Working Temperature(°C)		-5~60 (No freezing)							
Filter Precision		40 μ m/5 μ m optional							
Recommended Oil		Turbine No.1 Oil, ISO VG32							
Bowl Material		PC(Polycarbonate)							
Water Bowl Capacity(CC)		11		40			75		
Oil Bowl Capacity(CC)		30		76			183		
Weight(g)		388		585			1628		
Component	Filter regulator	EAW2000-01	EAW2000-02	EAW3000-02	EAW3000-03	EAW3000-04	EAW4000-03	EAW4000-04	EAW4000-06
	Lubricator	EAL2000-01	EAL2000-02	EAL3000-02	EAL3000-03	EAL3000-04	EAL4000-03	EAL4000-04	EAL4000-06

How to Order?

Series No.	Port Size	Drain Type	Type No.	Pressure Gauge	Pressure Gauge Type	Scale Unit	Filter Precision	Thread Type
EAC2010:EA2000 series FR.L Unit EAC3010:EA3000 series FR.L Unit EAC4010:EA4000 series FR.L Unit	2000 01: 1/8" 02: 1/4" 3000 03: 3/8" 04: 1/2" 4000 03: 3/8" 04: 1/2" 06: 3/4"	Blank: Manual drain type C: Semi-anto drain D: Auto Drain type①	Blank: With pressure gauge N: No pressure gauge	Blank: Standard type	F:Square pressure gauge Y:Round pressure gauge	② Square pressure gauge optional Round pressure gauge optional	Blank: 40 μ m 5M: 5 μ m	Blank: G P: PT T: NPT
						1: MPa 2: Bar 3: Psi 4: Mpa/Psi 5: Bar/Psi		

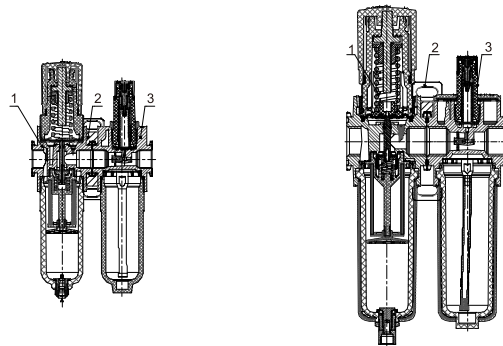
Order Example:

EA series FR.L unit, port size of 1/2", differential pressure drain type,with square pressure gauge, Mpa, 5 μ m, G thread, the ERP code is: EAC3010-04CF15M

Remark: ①2000 series without automatic drainage type

②Square pressure gauge is single scale, round pressure gauge is double scale.

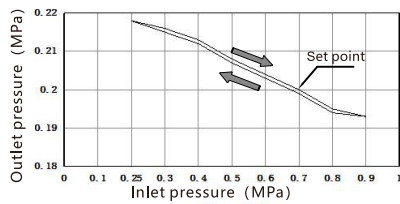
Internal Structure



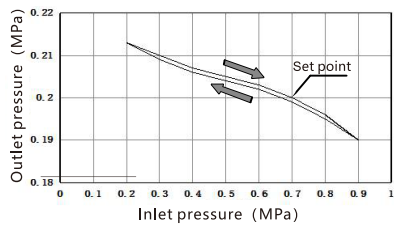
No.	Part Name
1	EA series filter regulator
2	T type bracket
3	EA series lubricator

Pressure Feature

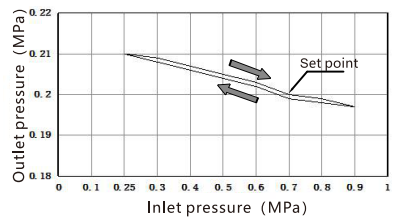
EAC2010



EAC3010

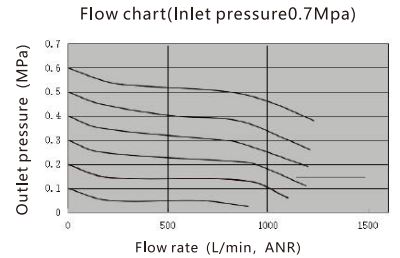


EAC4010

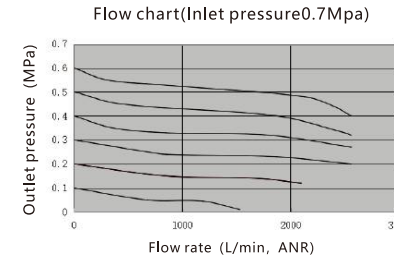


Flow Chart

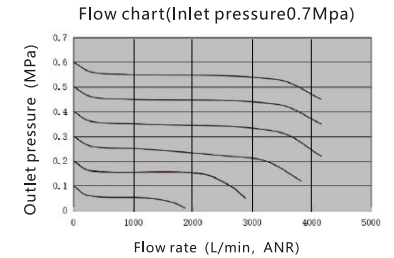
EAC2010



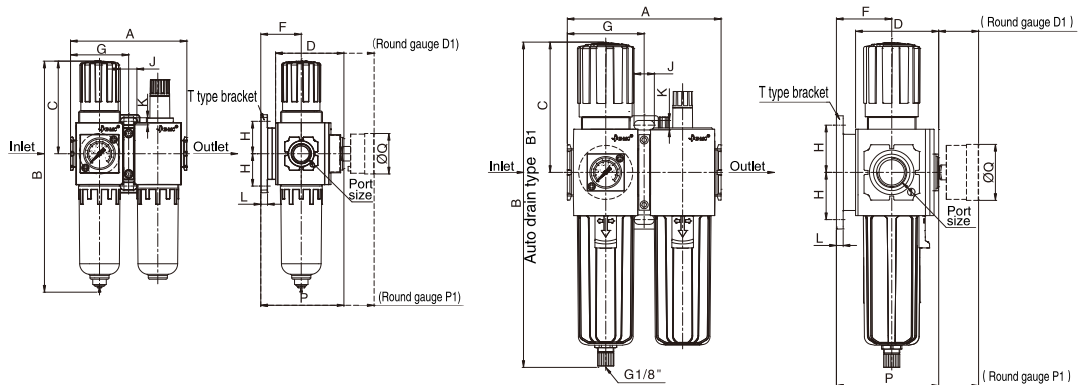
EAC3010



EAC4010

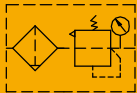


Main Dimensions



Model	Port Size	A	B	B1	C	D	D1	F	G	H	J	K	L	P	P1	Q
EAC2010	1/8", 1/4"	86	171.2	-	68.6	50.6	73	30	43	24	12.5	5.5	5	61.6	84	30
EAC3010	1/4", 3/8", 1/2"	114	239.6	236.6	96.6	61.6	91.2	41	57	35	15	7	5	75.8	105.4	41.5
EAC4010	3/8", 1/2", 3/4"	160	270.2	264.5	105.4	82.1	110.7	50	80	40	17.5	8.5	7	95.3	123.8	41.5

EAW2000 EAW3000 EAW4000
Filter Regulator



Specifications

Model	EAW2000-01	EAW2000-02	EAW3000-02	EAW3000-03	EAW3000-04	EAW4000-03	EAW4000-04	EAW4000-06
Working Medium	Clean Air(after 40 μ m filtration)							
Proof Pressure(MPa)	1.5							
Working Pressure Range(MPa)	0.15~1.0							
Pressure Adjustment Range(MPa)	0.05~0.9							
Working Temperature(°C)	-5~60 (No freezing)							
Filter Precision	40 μ m/5 μ m optional							
Recommended Oil	Turbine No.1 Oil, ISO VG32							
Container Material	PC(Polycarbonate)							
Water Bowl Capacity(CC)	11		40		75			
Weight(g)	197		477		853			

How to Order?

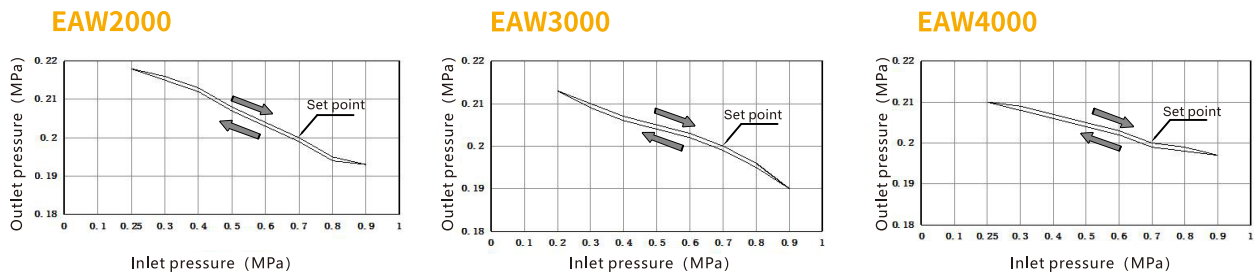
Series No.	Port Size	Drain Type	Type No.	Pressure Gauge	Pressure Gauge Type	Bracket Code	Scale Unit	Filter Precision	Thread Type
EAW2000:EA2000 series Filter regulator	Blank: Manual drain type C: Semi-anto drain D: Auto Drain type①	Blank: With pressure gauge N: No pressure gauge	Blank: Standard type	F:Square pressure gauge Y:Round pressure gauge	Blank: 40 μ m 5M: 5 μ m	Blank: G P: PT T: NPT	Blank: 1: MPa 2: Bar 3: Psi Round pressure gauge optional 4: Mpa/Psi 5: Bar/Psi		
EAW3000:EA3000 series Filter regulator	2000 01: 1/8" 02: 1/4" 02: 1/4"								
EAW4000:EA4000 series Filter regulator	3000 03: 3/8" 04: 1/2" 4000 03: 3/8" 04: 1/2" 06: 3/4"								

Order Example:
EA series FR unit, port size of 1/2", differential pressure drain type, with square pressure gauge, with bracket, Mpa, 5 μ m,
G thread, the ERP code is: EAW3000-04CF15M
Remark: ①2000 series without automatic drainage type
②Square pressure gauge is single scale, round pressure gauge is double scale.

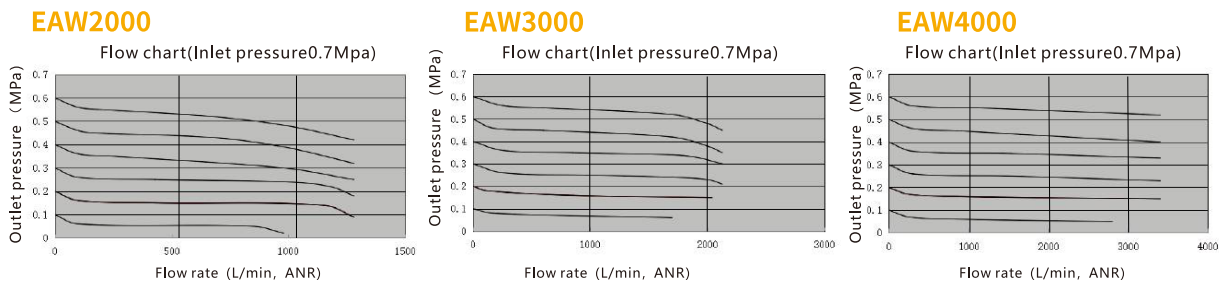
Internal Structure

No.	Part Name	Material	No.	Part Name	Material
1	Pressure regulating handle	Plastics	1	Pressure regulating handle	Plastics
2	Pressure regulating valve cover	Plastics	2	Pressure regulating valve cover	Plastics
3	Marking ring	Plastics	3	Marking ring	Plastics
4	Diaphragm	SUS304+NBR	4	Pressure regulating spring seat	Plastics
5	Gaskets	6061	5	Cover plate	Plastics
6	Valve body	Aluminum alloy	6	Valve body	Aluminum alloy
7	Seal	NBR	7	Seal	NBR
8	Water bowl	Plastics	8	Water bowl	Plastics
9	Protection guard	Plastics	9	Protection guard	Plastics
10	Pressure regulating screw/Screw set	Free-cutting steel	10	Pressure regulating screw/Screw set	Free-cutting steel
11	Spring	SWC	11	Spring	SWC
12	Octagonal caps	Aluminum alloy	12	Octagonal caps	POM with glass fiber/Zinc alloy
13	Spring	SUS304	13	Diaphragm	NBR
14	Water separator propeller	Plastics	14	Interline	Plastics
15	Valve core	Plastics	15	Valve stem	Brass
16	Water baffle	Plastics	16	Valve core	6061+NBR
			17	Spring	SUS304
			18	Water separator propeller	Plastics
			19	Filter element	Plastics
			20	Water baffle	Plastics

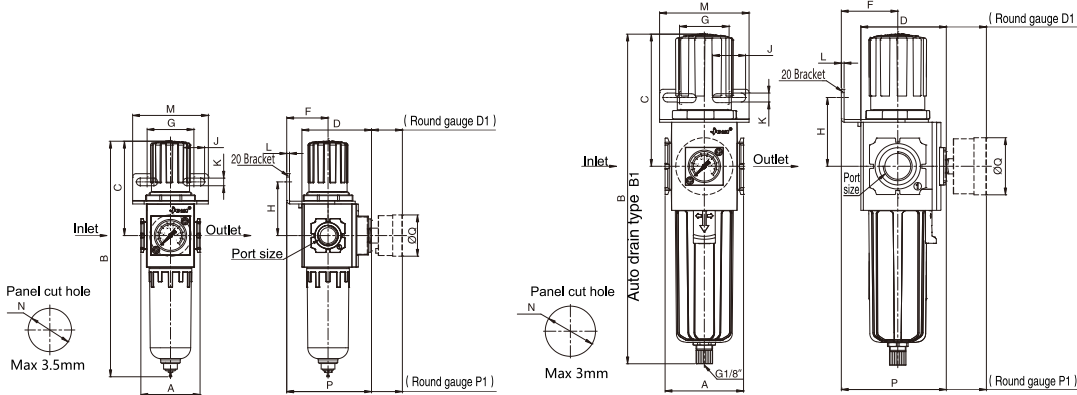
Pressure Feature



Flow Chart



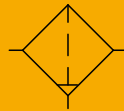
Main Dimensions



Model	Port Size	A	B	B1	C	D	D1	F	G	H	J	K	L	M	N	P	P1	Q
EAW2000	1/8", 1/4"	43	171.2	—	68.6	50.6	73	30	34	39	15.5	5.5	2	55	31.5	61.6	84	30
EAW3000	1/4", 3/8", 1/2"	57	239.6	236.6	96.6	62.1	91.2	41	36	50	24	6.5	2	65	36.5	76.3	105.4	41.5
EAW4000	3/8", 1/2", 3/4"	80	270.2	264.5	105.4	82.1	110.7	50	38	53	28	8.5	2.5	72	52.5	95.3	123.9	41.5



EAF2000 EAF3000 EAF4000
Filter



Specifications

Model	EAF2000-01	EAF2000-02	EAF3000-02	EAF3000-03	EAF3000-04	EAF4000-03	EAF4000-04	EAF4000-06
Working Medium	Clean Air(after 40 μ m filtration)							
Proof Pressure(MPa)	1.5							
Working Pressure Range(MPa)	0.15~1.0							
Working Temperature(℃)	-5~60 (No freezing)							
Filter Precision	40 μ m/5 μ m optional							
Container Material	Turbine No.1 Oil, ISO VG32							
Bowl Material	PC(Polycarbonate)							
Water Bowl Capacity(CC)	11		40		75			
Weight(g)	117		315		578			

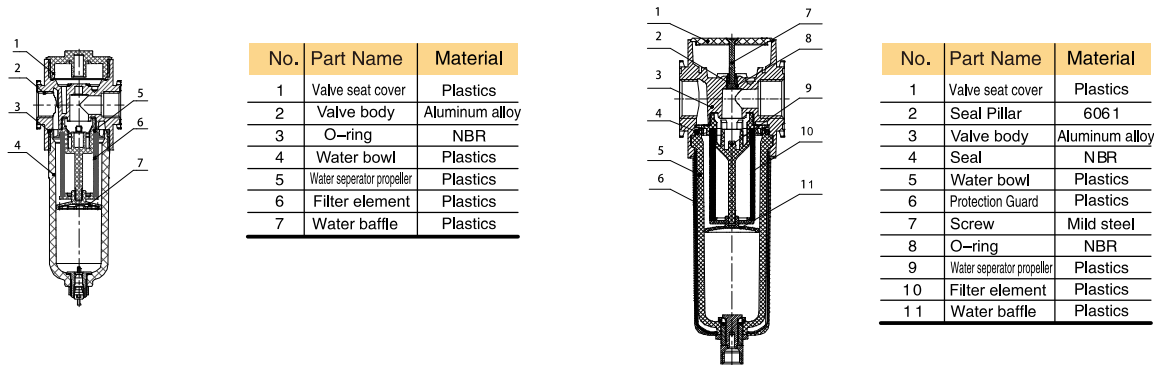
How to Order?

Series No.	Port Size	Drain Type	Bracket Code	Filter Precision	Thread Type
EAF2000:EA2000 series filter EAF3000:EA3000 series filter EAF4000:EA4000 series filter	2000 01: 1/8" 02: 1/4" 3000 03: 3/8" 04: 1/2" 4000 03: 3/8" 04: 1/2" 06: 3/4"	Blank: Manual drain type C: Semi-anto drain D: Auto Drain type①	Blank: With bracket J: No bracket	Blank: 40 μ m 5M: 5 μ m	Blank: G P : PT T : NPT

Order Example:

EA series Filter, port size of 1/2", differential pressure drain type, with bracket, filter precision 5 μ m, G thread, the ERP code is: EAF3000-04C5M
Remark: ①2000 series without automatic drainage type

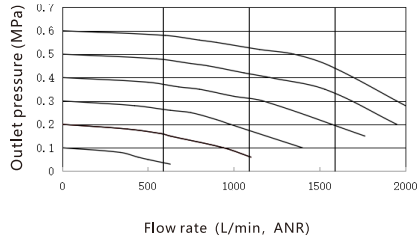
Internal Structure



Flow Chart

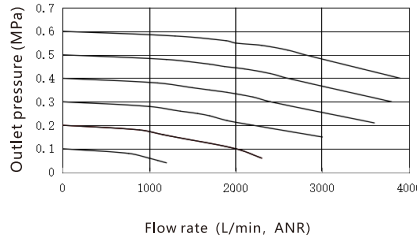
EAF2000

Flow chart(Inlet pressure0.7Mpa)



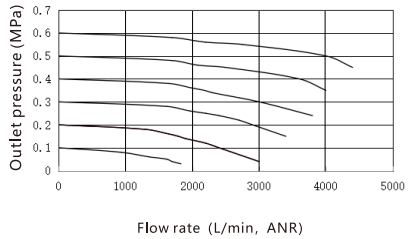
EAF3000

Flow chart(Inlet pressure0.7Mpa)

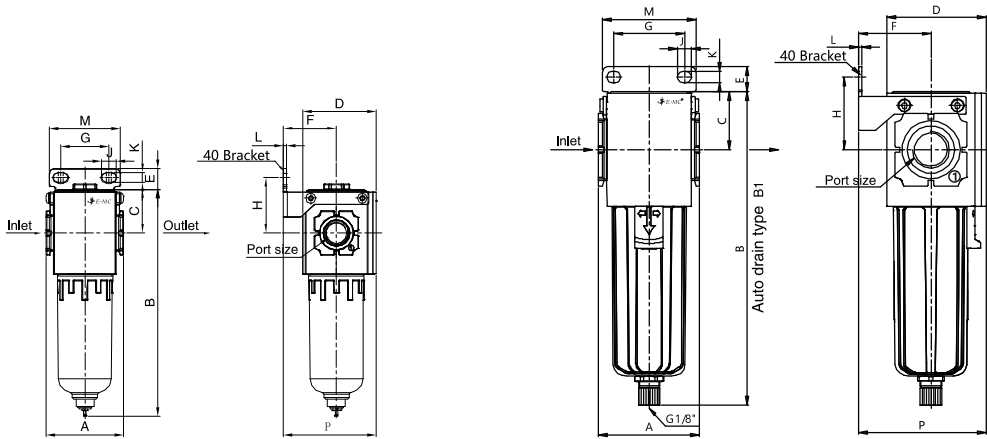


EAF4000

Flow chart(Inlet pressure0.7Mpa)



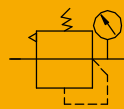
Main Dimensions



Model	Port Size	A	B	B1	C	D	E	F	G	H	J	K	L	M	P
EAF2000	1/8", 1/4"	43	127.1	-	24.5	41	11.5	30	27	31	8.4	5.4	2	40	52
EAF3000	1/4", 3/8", 1/2"	57	176.5	173.5	33	58.2	14	41	40	41	8	6.5	2	53	72.4
EAF4000	3/8", 1/2", 3/4"	80	200.8	195.1	36	78.9	17	50	54	44	12	8.5	2.5	73	92.1

EAR2000 EAR3000 EAR4000

Regulator



Specifications

Model	EAR2000-01	EAR2000-02	EAR3000-02	EAR3000-03	EAR3000-04	EAR4000-03	EAR4000-04	EAR4000-06
Working Medium	Clean Air(after 40 μ m filtration)							
Proof Pressure(MPa)	1.5							
Max. Working Pressure(MPa)	1.0							
Pressure Adjustment Range(Mpa)	0.05~0.9							
Working Temperature(°C)	-5~60 (No freezing)							
Weight(g)	166		380			684		

How to Order?

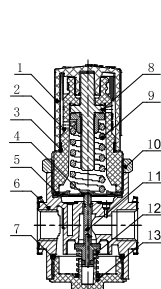
Series No.	Port Size	Type No.	Pressure Gauge	Pressure Gauge Type	Bracket Code	Scale Unit	Thread Type
EAR2000:EA2000 series Regulator EAR3000:EA3000 series Regulator EAR4000:EA3000 series Regulator			Blank: With pressure gauge N: No pressure gauge		Blank: With bracket J: No bracket	①	Blank: G P: PT T: NPT
	2000 01: 1/8" 02: 1/4" 03: 1/4"	Blank: Standard type	F:Square pressure gauge Y:Round pressure gauge			Square pressure gauge optional Round pressure gauge optional	1: MPa 2: Bar 3: Psi 4: Mpa/Psi 5: Bar/Psi
	3000 03: 3/8" 04: 1/2" 03: 3/8"						
	4000 04: 1/2" 06: 3/4"						

Order Example:

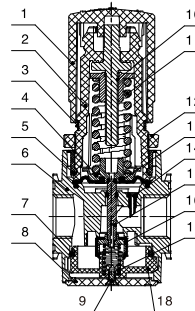
EA series Regulator, port size of 1/2", with square pressure gauge, with bracket, Mpa, G thread, the ERP code is: EAR3000-04F1

Remark: ①Port of round pressure gauge is M6;It is not allowed to distribute pressure guages to customers.

Internal Structure



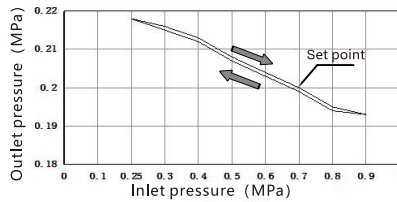
No.	Part Name	Material
1	Pressure regulating handle	Plastics
2	Pressure regulating valve cover	Plastics
3	Marking ring	Plastics
4	Diaphragm	SUS304+NBR
5	Gaskets	6061
6	Valve body	Aluminum alloy
7	Seal	NBR
8	Water bowl	Plastics
9	Pressure regulating screw/ Screw set	Free-cutting steel
10	Spring	SWC
11	Octagonal caps	Aluminum alloy
12	Valve stem	Brass
13	Spring	SUS304
14	Water separator propeller	Plastics
15	Valve core	Plastics
16	Water baffle	Plastics



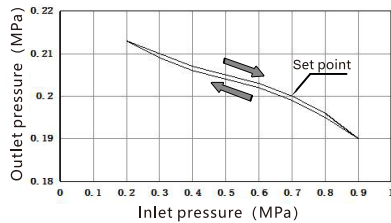
No.	Part Name	Material
1	Pressure regulating handle	Plastics
2	Pressure regulating valve cover	Plastics
3	Marking ring	Plastics
4	Pressure regulating spring seat	Plastics
5	Cover plate	Plastics
6	Valve body	Aluminum alloy
7	Seal	NBR
8	Valve seat cover	Plastics
9	Screw	Mild steel
10	Pressure regulating screw/ Screw set	Free-cutting steel
11	Spring	SWC
12	Octagonal caps	Plastics
13	Diaphragm	NBR
14	Interline	Plastics
15	Valve stem	Brass
16	Valve core	6061+NBR
17	Spring	Plastics
18	Pressure regulating valve seat	Plastics

Pressure Feature

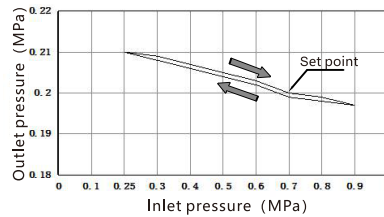
EAR2000



EAR3000

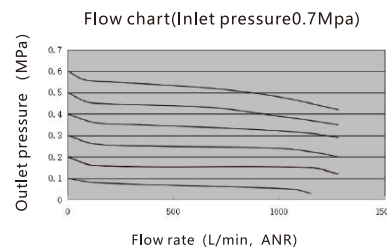


EAR4000

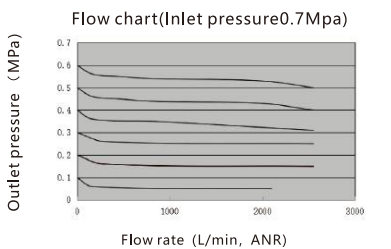


Flow Chart

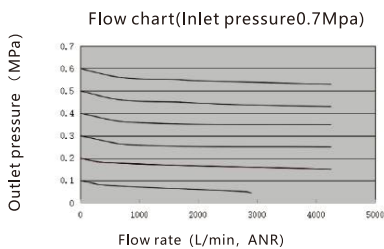
EAR2000



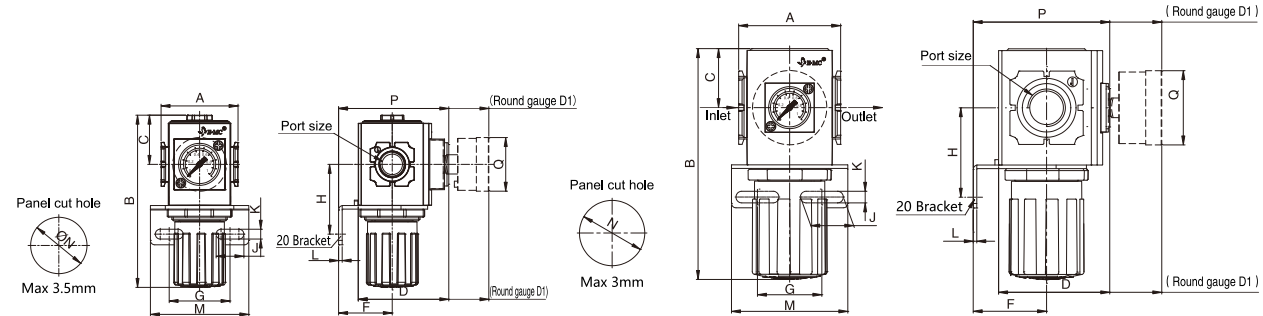
EAR3000



EAR4000



Main Dimensions

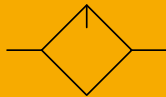


Model	Port Size	A	B	C	D	D1	F	G	H	J	K	L	M	N	P	P1	Q
EAR2000	1/8", 1/4"	43	96.3	27.5	50.6	73	30	34	39	15.5	5.5	2	55	31.5	61.6	84	30
EAR3000	1/4", 3/8", 1/2"	57	129.1	33	62.1	91.2	41	36	50	24	6.5	2	65	36.5	76.3	105.4	41.5
EAR4000	3/8", 1/2", 3/4"	80	141.6	36	82.1	110.7	50	38	53	28	8.5	2.5	72	52.5	95.3	123.9	41.5



EAL2000 EAL3000 EAL4000

Lubricator



Specifications

Model	EAL2000-01	EAL2000-02	EAL3000-02	EAL3000-03	EAL3000-04	EAL4000-03	EAL4000-04	EAL4000-06
Working Medium	Clean Air(after 40 μ m filtration)							
Proof Pressure(MPa)	1.5							
Working Pressure Range(MPa)	0.05~1.0							
Working Temperature(℃)	-5~60 (No freezing)							
Recommended Oil	Turbine No.1 Oil ISO VG32							
Bowl Material	PC(Polycarbonate)							
Oil Bowl Capacity(CC)	30		76		183			
Weight(g)	114		279		528			

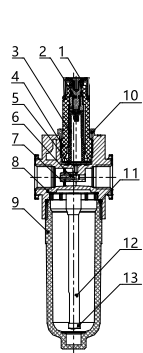
How to Order?

Series No.	Port Size	Bracket Code	Thread Type
EAL2000:EA2000 series lubricator	2000 01: 1/8"	Blank: With bracket J: No bracket	Blank: G P : PT T : NPT
EAL3000:EA3000 series lubricator	02: 1/4"		
EAL4000:EA4000 series lubricator	02: 1/4"		
	3000 03: 3/8"		
	04: 1/2"		
	03: 3/8"		
	4000 04: 1/2"		
	06: 3/4"		

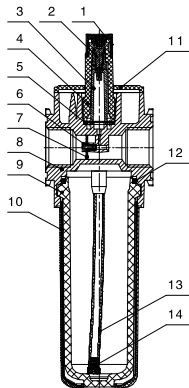
Order Example:

EA series lubricator, port size of 1/2", with bracket, G thread, the ERP code is: EAL3000-04

Internal Structure



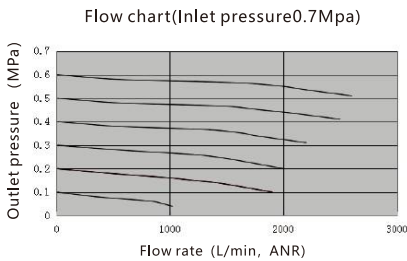
No.	Part Name	Material
1	Adjusting screw cap	Plastics
2	Oil flow adjusting unit	Brass
3	Oil dripping tube	Plastics
4	Oil window	Plastics
5	Seal	NBR
6	Bolt brass	Brass
7	Baffle	NBR
8	Valve body	Aluminum alloy
9	Water bowl	Plastics
10	Lubricator cover plate	Plastics
11	Sealing	NBR
12	Pipe	PU
13	Filter element	Brass



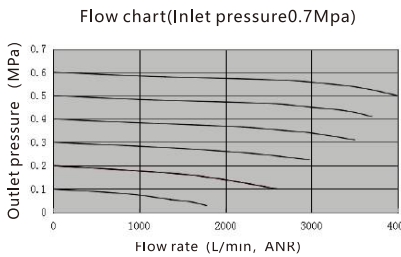
No.	Part Name	Material
1	Adjusting screw cap	Plastics
2	Oil flow adjusting unit	Brass
3	Oil dripping tube	Plastics
4	Oil window	Plastics
5	Seal	NBR
6	Bolt brass	Brass
7	Baffle	NBR
8	Valve body	Aluminum alloy
9	Water bowl	Plastics
10	Protection guard	Plastics
11	Lubricator cover plate	Plastics
12	Sealing	NBR
13	Pipe	PU
14	Filter element	Brass

Flow Chart

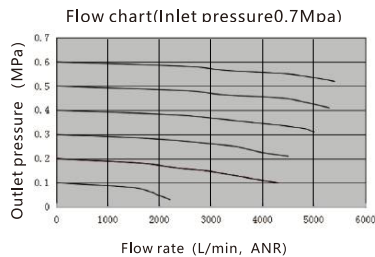
EAL2000



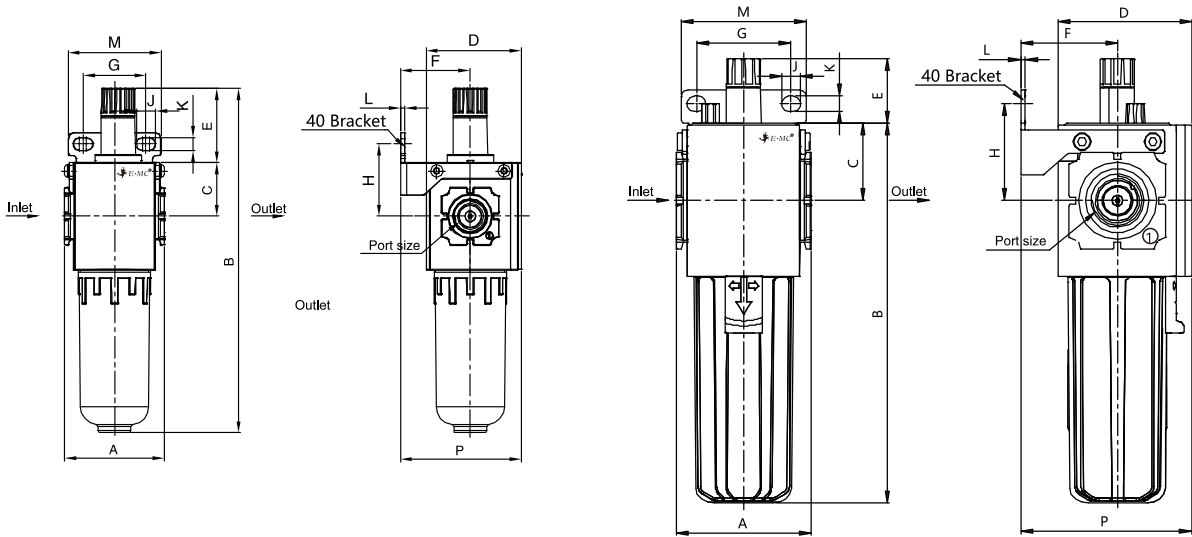
EAL3000



EAL4000



Main Dimensions



Model	Port Size	A	B	C	D	E	F	G	H	J	K	L	M	P
EAL2000	1/8", 1/4"	43	147.9	23	41	31.9	30	27	31	8.4	5.4	2	40	52
EAL3000	1/4", 3/8", 1/2"	57	188	33	58.2	27	41	40	41	8	6.5	2	53	72.4
EAL4000	3/8", 1/2", 3/4"	80	216.5	36	78.9	27	50	54	44	12	8.5	2.5	73	92.1

EA Series Air Preparation Unit- Accessories

How to Order?

Square pressure gauge

Series No.	Pressure Range	Scale Unit
EAC2000-FB: EA2000 series special square pressure gauges	010: 0~1.0 Mpa 0~10 Bar 0~150 Psi	1: MPa 2: Bar 3: Psi
EAC-FB: EA3000/ EA4000series special square pressure gauges		

Order Example:
EA 3000 series special square pressure gauge, pressure range: 0~1.0Mpa, scale:MPa, the ERP code is EAC-FB0101

Round pressure gauge

Series No.	Dial Diameter	Pressure Range	Scale Unit	Case Material	Case Molor	Fitting Material	Port Size
EAC-EYZ: EA series special round pressure gauges	26 : 26.5mm (Used in the EA2000 series) 40 : 40mm (Used in the EA3000 /4000series)	010:0~1.0MPa/0~150Psi 0~10Bar/0~150Psi	4:MPa/Psi 5:Bar/Psi	1: The plastic shell(26) 2: The iron shell(40)		Blank:Brass	M6:M6
					B:Black		

Order Example:
EA series special round pressure gauge, diameter is 40mm, pressure range:0-1.0Mpa/0-150psi, scale is Mpa/Psi, black metal shell, brass fitting, port size is M6, the ERP code is EAC-EYZ4001041B-M6

Cross Spacer

Series No.	Type No.	Port Size	Thread Type
EA200:EA2000 series spacer	1: 1000 series ①	2000 01: 1/8"	Blank: G
EA300:EA3000 series spacer	2: 2000 series	02: 1/4"	P: PT
EA400:EA4000 series spacer	3: 3000 series	02: 1/4"	T: NPT
	4: 4000 series	3000 03: 3/8"	
		04: 1/2"	
		4000 03: 3/8"	
		04: 1/2"	
		06: 3/4"	

Order Example:
EA 3000 series cross spacer, 2 way,port size of 1/4", G thread, the ERP code is: EA3002-02

Note: ①It means cross spacer prot qty,not including inlet/outlet port;
If use cross spacer together with EAC series F.R.L or FR.L should mount together with T type bracket.
②Refer to the order code of T type bracket for details

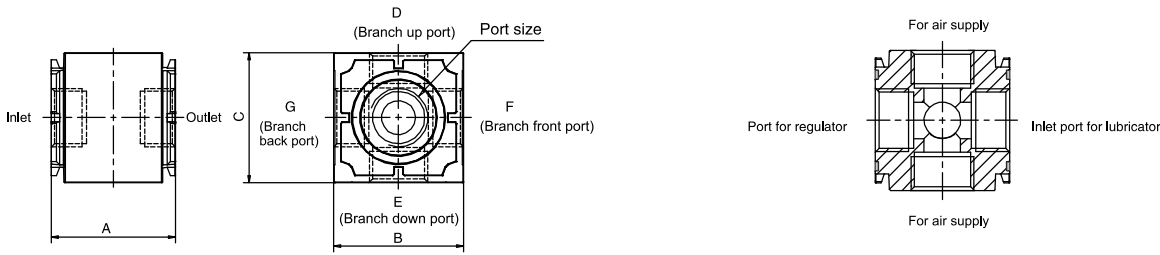
Specifications

Model	EA200□	EA300□	EA400□
Working Medium	Clean Air(after 40 μ m filtration)		
Guaranteed Pressure(MPa)		1.5	
Max. Working Pressure(MPa)		1.0	
Weight(g)	70	180	350

Product Features

- Mount between filter regulator/regulator and lubricator of EA series, to branch air supply line;
- Could be used with T type bracket or used seperately

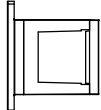
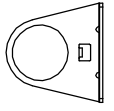
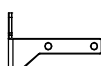
Internal Structure



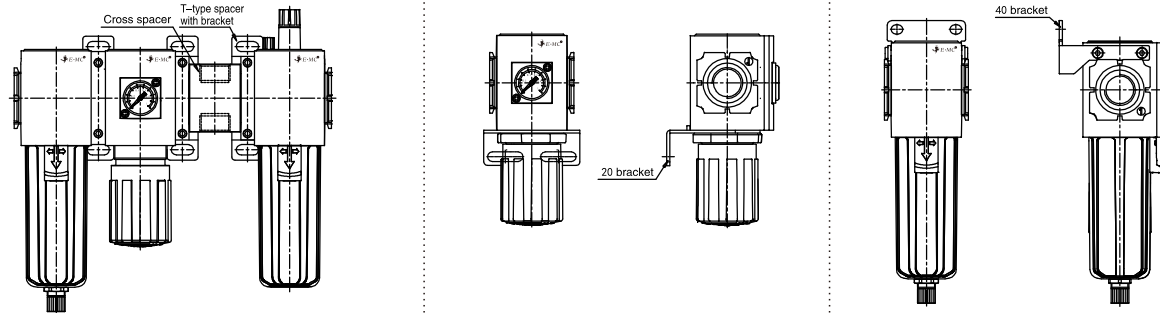
Dimensions and Ports

Model	Port size	A	B	C	Model	D	E	F	G
EA200	1/8", 1/4"	34	34	34	EA2001	Through hole	Blind hole	Blind hole	Blind hole
EA300	1/4",3/8",1/2"	44	46	46	EA2002	Through hole	Through hole	Blind hole	Blind hole
EA400	3/8",1/2",3/4"	56	58	58	EA2003	Through hole	Through hole	Through hole	Blind hole
					EA2004	Through hole	Through hole	Through hole	Through hole

Mounting Accessories

Model	Code	Dimensions	Applicable product specifications	
T-type spacer with bracket	EAC20T-P01		EAC2000	EAC2010
	EAC30T-P01		EAC3000	EAC3010
	EAC40T-P01		EAC4000	EAC4010
20-type bracket	EAC220-P01		EAW2000	EAR2000
	EAC320-P01		EAW3000	EAR3000
	EAC420-P01		EAW4000	EAR4000
40-type bracket	EAC240-P01		EAF2000	EAL2000
	EAC340-P01		EAF3000	EAL3000
	EAC440-P01		EAF4000	EAL4000

Accessories Application Example





EAFM/EAFD
High Cleaning Mist Seperator



Product Features

- 1.Low pressure loss,filtration efficiency over 99%.
- 2. Filter precision 0.3μm、 0.01μm optional.
- 3. Manual、 Semi-auto、 Auto three drain type optional.
- 4. Single unit optional use fixed bracket installation, combination unit can match with EMC EA sereis F.R.L or F.R.L

Specification

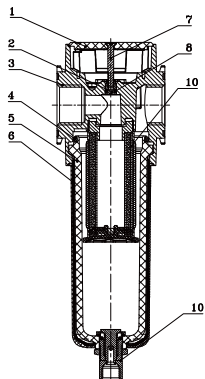
Model	EAFM/EAFD2000-01	EAFM/EAFD2000-02	EAFM/EAFD3000-02	EAFM/EAFD3000-03	EAFM/EAFD3000-04	EAFM/EAFD4000-03	EAFM/EAFD4000-04	EAFM/EAFD4000-06
Working Medium	Air							
Port Size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"
Guaranteed Pressure(Mpa)	1.5							
Max.Working Pressure(Mpa)	0.15~1.0							
Filter precision (μm)	EAFM	0.3 μ m						
	EAFD	0.01 μ m						
Working Temperature(°C)	-5~60(No freezing)							
Weight (g)	120		330			610		

How to order

Series No.	Body Size — Port Size	Drain Type	Bracket Code	Thread Code
EAFM:EAFM Series high cleaning mist seperator (Filter precision 0.3 μ m)	2000	01: 1/8"	Blank: With bracket J: No bracket	Blank: G P: PT T: NPT
EAFD:EAFD Series high cleaning mist seperator (Filter precision 0.01 μ m)	3000	02: 1/4"		
		03: 3/8"		
		04: 1/2"		
		03: 3/8"		
		04: 1/2"		
	4000	06: 3/4"		

How to order: EAFM Series high cleaning mist seperator, body size 3000, port size 1/4,manual drain type,with bracket,G thread,
order code: EAFM3000-02
Note①:The EAFM/EAFD2000 series is only available in manual drainage models.

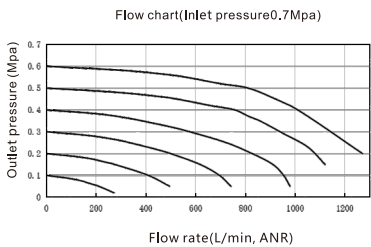
Internal Structure



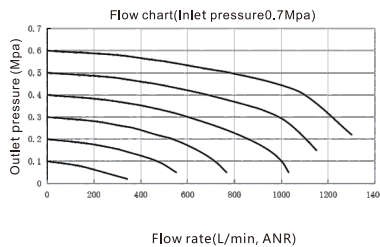
NO.	Part Name	Material
1	Valve	Plastics
2	Seal pillar	Aluminumalloy
3	Valve body	Aluminumalloy
4	O-ring	NBR
5	Water bowl	Plastics
6	Protection guard	Plastics
7	Screw	Mild steel
8	O-ring	NBR
9	Filter element	Modular
10	Drain modular	Modular

Flow Chart (Typical Value)

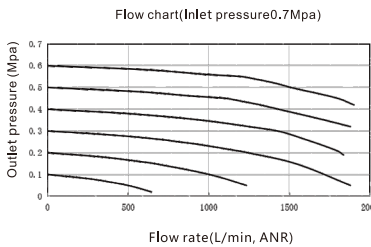
EAFD2000



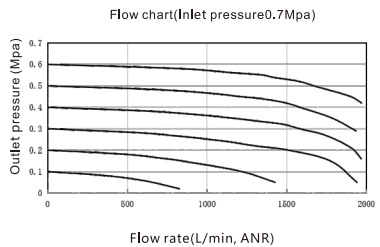
EAFM2000



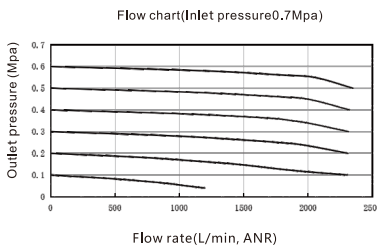
EAFD3000



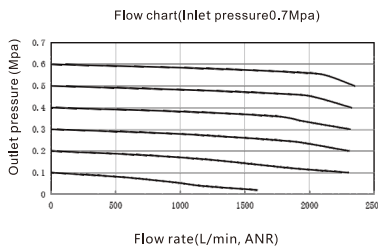
EAFM3000



EAFD4000



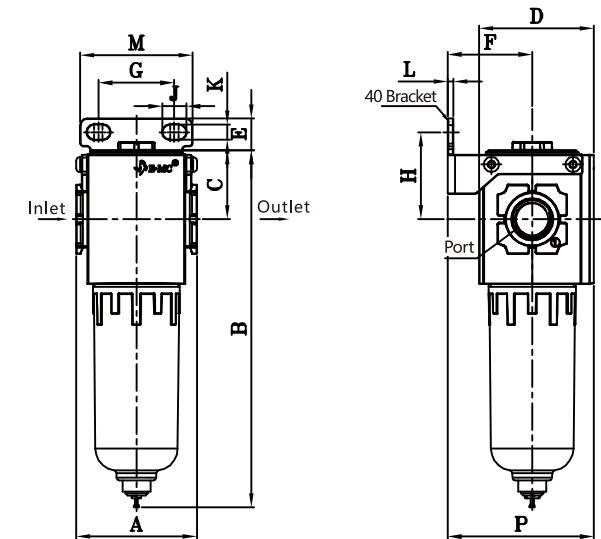
EAFM4000



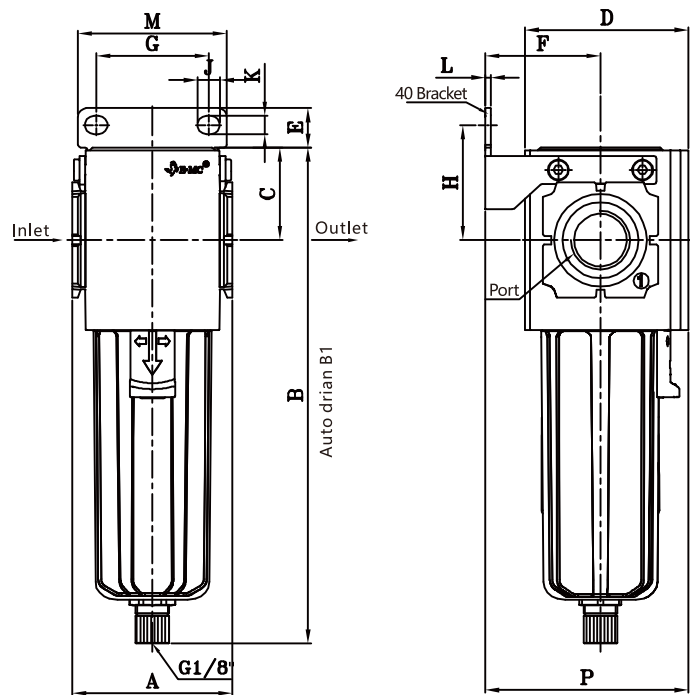


Main Dimension

EAFM/EAFD2000



EAFM4000/EAFD3000



Model	Port Size	A	B	B1	C	D	E	F	G	H	J	K	L	M	P
EAFM/EAFD2000	1/8"-1/4"	43	127.1	-	24.5	41	11.5	30	27	31	8.4	5.4	2	40	52
EAFM/EAFD3000	1/4"-1/2"	57	176.5	173.5	33	58.2	14	41	40	41	8	6.5	2	53	72.4
EAFM/EAFD4000	3/8"-3/4"	80	200.8	195.1	36	78.9	17	50	54	44	12	8.5	2.5	73	92.1

EAS

Manually Operated Check Valve



Product Features

- Modular Design, could combine with EA3000 series by using the bracket.
- This valve can be used as a manual 3/2 ways check valve
- Switching position (EXH./SUP.) is immediately recognizable
- Standards for operator installation: when repairing and maintaining machinery, Residual pressure relief valve can be used to eliminate residual pressure while closing the air source. In this case, unintentional manipulation by a third party can cause a sudden movement of the rear line pressure, cylinders, etc., which can lead to injury. Therefore, the provisions: all used for this purpose must be locked, to prevent the third party unintentional operation resulting in damage to the operator;
- In addition to the standard type, a pressure gauge type is available (square or round), If needs, please contact E.MC for customization

How to Order?

Series No.	Port size	Bracket Code	Thread Type
EAS2000 EAS3000 EAS4000	2000 01:1/8" 02:1/4" 02:1/4" 3000 03:3/8" 04:1/2" 03:3/8" 4000 04:1/2" 06:3/4"	Blank: with bracket J: No bracket	Blank: G P: PT T: NPT

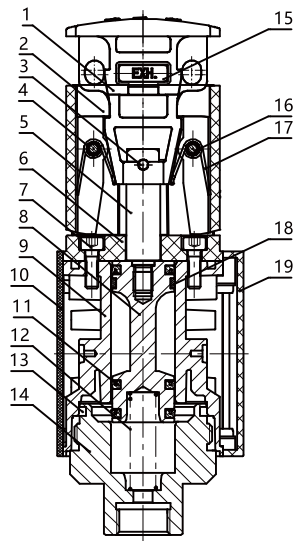
Order Example:
EAS3000 manually operated check valve, 1/4" port size, with bracket , G thread
ERP code is EAS3000-02

Specifications

Model	EAS2000-01	EAS2000-02	EAS3000-02	EAS3000-03	EAS3000-04	EAS4000-03	EAS4000-04	EAS4000-06
Working medium	Clean air(After 40 μ m filtration)							
Port size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"
EXH. port size	1/4		3/8			1/2		
Guaranteed pressur(MPa)	1.5							
Working pressure range(MPa)	0 ~ 0.9							
Acting type	Manual							
Positions	3/2ways							
Working temperature(℃)	-5~60(No freezing)							
Weight(g)	144	141	284	277	270	669	659	639

EAS2000 series and EAS4000 series are coming soon.

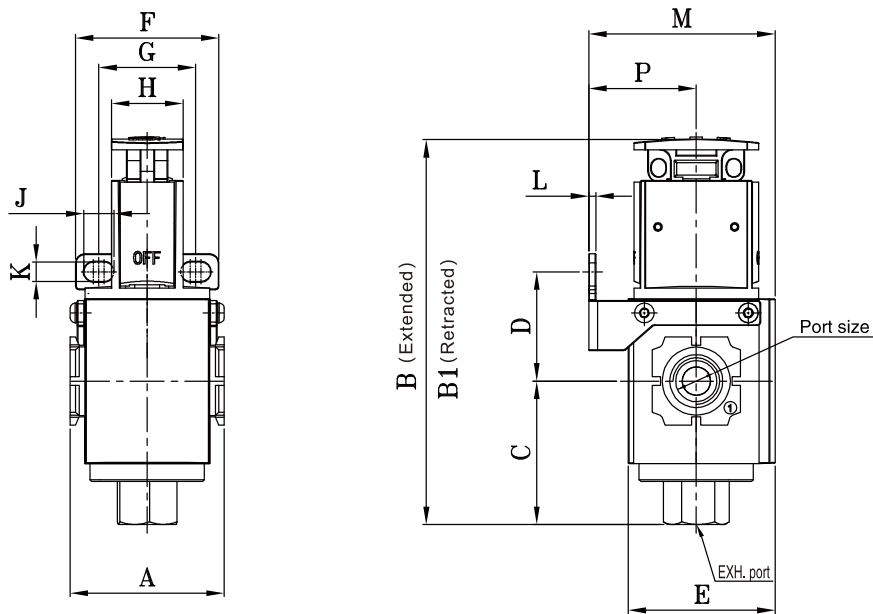
Internal Structure



No.	Name	Materials
1	The locking handle	ABS
2	Push Button	ABS
3	Handle pin	Stainless steel
4	Scroll casing	Stainless steel
5	Connecting rod	Aluminium Alloy
6	Handle bracket	ABS
7	Hexagon socket cap screws	Medium Carbon Steel
8	Spool	Aluminium Alloy
9	Valve body	Aluminium Alloy
10	Rear panel	ABS
11	Piston seal	NBR
12	Return spring	Stainless steel
13	O-ring	NBR
14	Seal set	Aluminium Alloy
15	Sticker	Plastics
16	Button pin	Stainless steel
17	Returning torsion spring	Stainless steel
18	Wear Ring	ABS
19	Plate	ABS

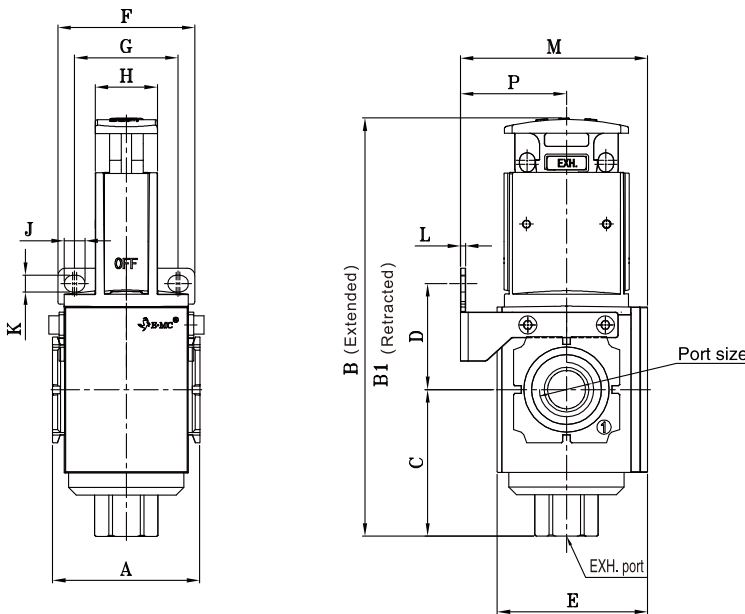
Main Dimension

EAS2000

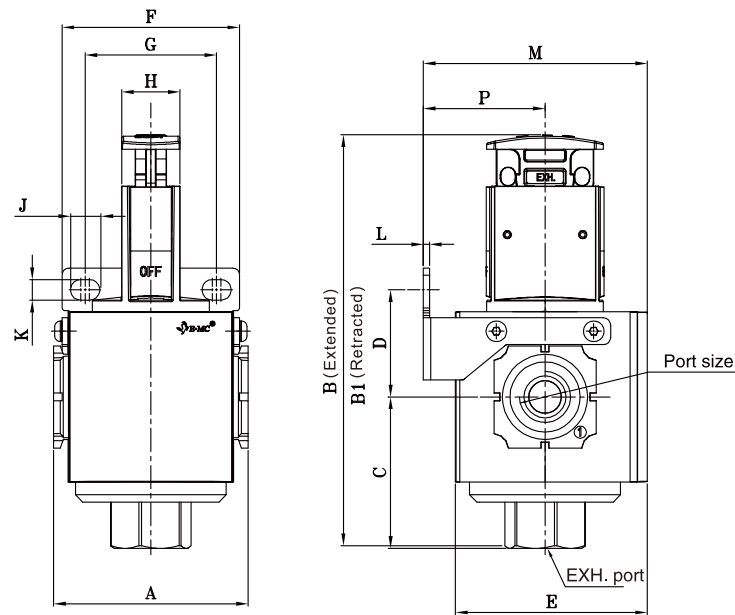


Main Dimension

EAS3000



EAS4000



Model	Port size	A	B	B1	C	D	E	F	G	H	J	K	L	M	P	EXH. port
EAS2000	1/8"-1/4"	43	107.5	99.5	40	30.5	41	40	27	20	8.4	5.4	2	52	30	1/4"
EAS3000	1/4"-1/2"	56.8	161.7	146.7	56.7	41	58.2	53	40	24	8	6.5	2	72.4	41	3/8"
EAS4000	3/8"-3/4"	80	169.7	154.7	62.2	44	78.9	73	54	24	12	8.5	2.5	92.1	50	1/2"



EAS
Electric control check valve



Product Features

- Modular design, combined with the EA series using brackets;
- Standards for operator installation: When repairing and maintaining machinery, a residual pressure relief valve can be used to eliminate residual pressure while shutting off the air source. In this scenario, unintentional manipulation by a third party can cause sudden movement of the rear line pressure, cylinders, etc., which can lead to injury. Therefore, the provisions state: all devices used for this purpose must be locked to prevent unintentional operation by a third party that could result in damage to the operator.

How to Order?

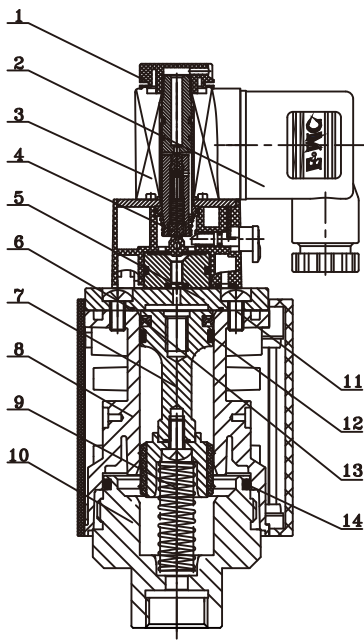
Series No.	Port size		Bracket Code	Voltage	Connection Mode	Cover Color	Patchcord	Thread Type																			
EAS2100: EAS2100 Series	EAS 2100	01	1/8"	Blank: with bracket J: No bracket	Blank: Junction Box Style L: Plug-in Style F: Lead Wire Style (Without Junction Box)	Blank: Brown		Blank: G																			
EAS3100: EAS3100 Series		02	1/4"					P: PT																			
EAS4100: EAS4100 Series	EAS 3100	02	1/4"	<table><tr><td>E1</td><td>AC110V</td><td>E6</td><td>AC36V</td></tr><tr><td>E2</td><td>AC220V</td><td>E7</td><td>AC24V</td></tr><tr><td>E3</td><td>AC380V</td><td>E8</td><td>DC110V</td></tr><tr><td>E4</td><td>DC24V</td><td>E9</td><td>DC48V</td></tr><tr><td>E5</td><td>DC12V</td><td>E10</td><td>DC36V</td></tr></table>	E1	AC110V	E6	AC36V	E2	AC220V	E7	AC24V	E3	AC380V	E8	DC110V	E4	DC24V	E9	DC48V	E5	DC12V	E10	DC36V	Blank: Patchcord length is 0.3 M 0.6M: Patchcord length is 0.6 M 1M: Patchcord length is 1 M (1: This order code is only for L and F power supply solutions. 2: Other lengths can be ordered according to customer requirements.)		T: NPT
E1		AC110V	E6		AC36V																						
E2	AC220V	E7	AC24V																								
E3	AC380V	E8	DC110V																								
E4	DC24V	E9	DC48V																								
E5	DC12V	E10	DC36V																								
	03	3/8"																									
	04	1/2"																									
	03	3/8"																									
	04	1/2"																									
	06	3/4"																									

Order example: EAS2100 electric control check valve, port size 1/8',with bracket, DC24V, Junction Box Style, cover color: Brown , G thread, the ERP code is EAS2100-01E4.

Product specifications

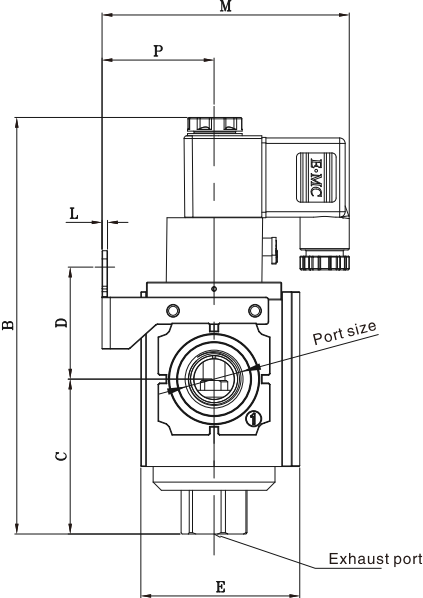
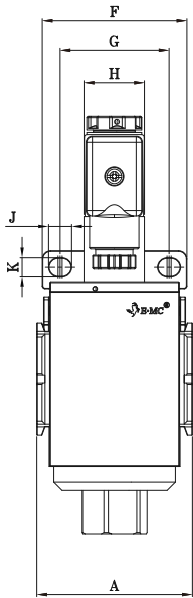
Model	EAS2100-01	EAS2100-02	EAS3100-02	EAS3100-03	EAS3100-04	EAS4100-03	EAS4100-04	EAS4100-06
Working medium	Clean air(After 40 μ m filtration)							
Port size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"
EXH. port size	1/4"		3/8"			1/2"		
Guaranteed pressur(MPa)	1.5							
Working pressure range(MPa)	0.2~1.0							
Working voltage	AC24V AC36V AC110V AC220V AC380V DC12V DC24V DC36V DC48V DC110V							
Acting type	Electric control, pilot type							
Positions	3/2 ways							
Working temperature(℃)	-5~60(No freezing)							
Weight(g)	325	320	553	549	541	755	750	728

Internal Structure



No.	Name	Quantity	Material
1	Coil Nut	1	Plastic
2	Connector	1	Assembly
3	Coil	1	Assembly
4	Pilot Seat Component	1	Assembly
5	Pilot Seat Adapter Block	1	Aluminium Alloy
6	Irregular Sealing Ring	1	Rubber
7	Valve Stem	1	Assembly
8	Valve Body	1	Aluminium Alloy
9	Reset Spring	1	Spring Steel
10	Sealing Seat	1	Aluminium Alloy
11	Short head hexagonal cylindrical head screw	2	Stainless Steel
12	Wear Resistant Ring	1	Plastic
13	Piston Sealing Ring	1	Rubber
14	O-ring	1	Rubber

Main dimension



Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	P	EXH
EAS2100	1/8"-1/4"	43	128.2	40	30.5	41	40	27	22	8.4	5.4	2	79.2	30	1/4"
EAS3100	1/4"-1/2"	57	152.9	56.7	41	58.2	53	40	22	8	6.5	2	90.2	41	3/8"
EAS4100	3/8"-3/4"	80	161.1	62.2	44	78.9	73	54	22	12	8.5	2.5	99.2	50	1/2"



EPR2000/3000/4000

Precision Pressure Regulator



Product Features

- High precision , sensitive response.
- Steady output pressure.
- Large flow rate and steady flow output.
- Easy installation : Independent installation by bracket ; Bottom installation; Direct installation with existing modular air preparation.
- High pressure type, medium pressure type and low pressure type optional.

How to Order?

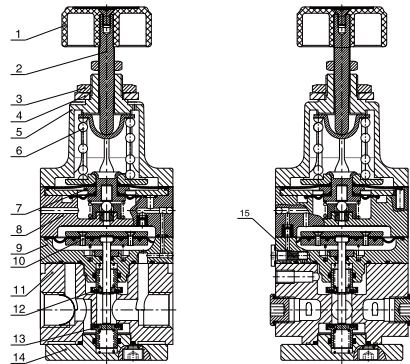
Series No.	Port Size	Pressure Range	Pressure Gauge Code	Bracket Code	Scale Unit	Thread Type
EPR2000	2000 01:1/8"	L: 0.005 ~ 0.2MPa	Blank: With pressure gauge N: No pressure gauge	Blank: With bracket J: No bracket	4: MPa/psi	Blank: G P: PT T: NPT
EPR3000	3000 02:1/4"	M: 0.01 ~ 0.4MPa				
EPR4000	4000 02:1/4" 03:3/8" 04:1/2"	L: 0.01 ~ 0.2MPa M: 0.01 ~ 0.4MPa H: 0.01 ~ 0.8MPa				

Order Example: EPR3000 high precision regulator , 1/4" port, pressure range 0.01~0.8MPa ,with gauge,with bracket, scale unit MPa/psi, G thread.
ERP code is EPR3000-02H

Specifications

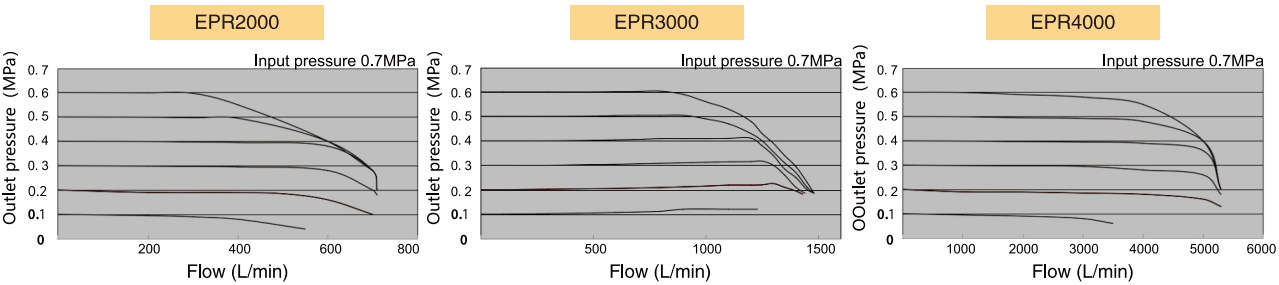
Model No.		EPR2000-01	EPR3000-02	EPR4000-02	EPR4000-03	EPR4000-04
Working Medium		Clean air(After 5 μ m filtration)				
Max. Supply Pressure(Mpa)		1.0				
Min. Supply Pressure(Mpa)		Setting pressure+0.05		Setting pressure+0.1		
Proof Pressure(Mpa)		1.5				
Set Pressure	Low Pressure	L:0.005 ~ 0.2MPa		L:0.01 ~ 0.2MPa		
	Medium Pressure			M:0.01 ~ 0.4MPa		
	High Pressure			H:0.01 ~ 0.8MPa		
Sensitivity		Within 0.2% of full scale				
Repeatability		Within±0.5% of full scale				
Air Consumption		≤4.4L/min (ANR)		≤11.5L/min (ANR)		
Port Size		1/8"	1/4"	1/4"	3/8"	1/2"
Pressure Gauge Port Size		G1/8(2 locations)				
Working Temperature(℃)		-20~70 (No freezing)				
Weight(g)		140	420	710		

Internal Structure

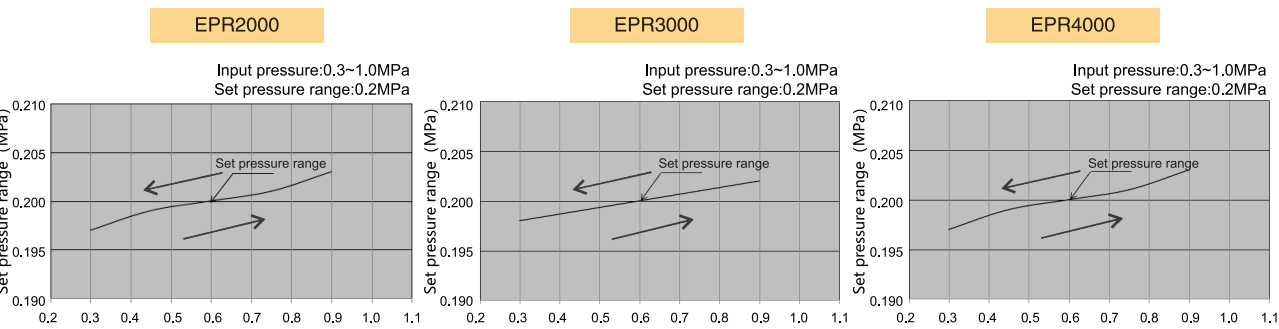


No.	Part Name	Material
1	Pilot regulate button	Plastic
2	Pilot regulate axle	Carbon steel
3	Hex nut	Free Machining Steel
4	Flat washer	SPCC
5	Pilot regulate seat	Aluminum
6	Spring	Spring steel
7	Pilot diaphragm assy	Assy
8	Nozzle	Aluminum
9	Middle valve body	Aluminum
10	Main regulate diaphragm	Assy
11	Main valve body	Aluminum
12	Exhaust valve core	Assy
13	Inlet valve core	Assy
14	Bottom cover	Aluminum
15	Filter element	High polymer material

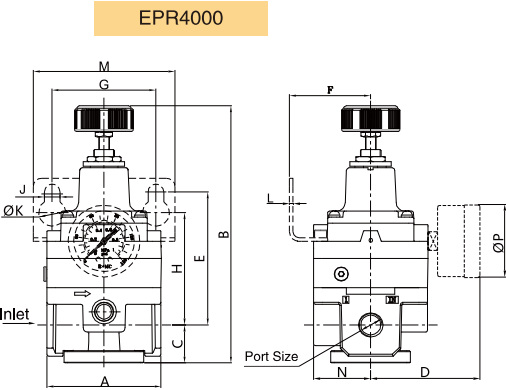
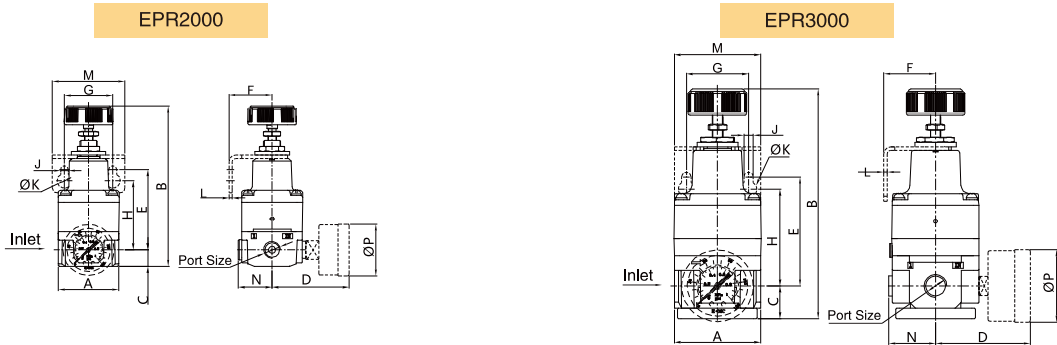
Flow Chart



Pressure Characteristic Diagram



Main Dimension



Model	Port Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P
EPR2000	1/8"	35	93	9.5	44.5	46.5	25	28	40	4.5	8.5	2	42	19.5	30
EPR3000	1/4"	50	133	19	55	63	30	36	56	5.5	9.5	2	50	27	42
EPR4000	1/4", 3/8", 1/2"	66	149	22	63.5	77	47	60	65	9	15.5	2	82	33	42

ETV3000/4000

Electro-Pneumatic Proportional Regulator



Product Features

- Adopt 32-bits CPU , special closed-loop control algorithm to realize the rapid response and precise control effectively;
- Control precision is $\leq \pm 0.5\%$;
- Adopt high-precision built-in pressure sensor to improve control precision effectively;
- Three-color digital display LCD, real-time display actual pressure and setting pressure simultaneously , convenient to confirm and adjust on site;
- Easy to change 4 pressure units(Mpa,Bar,Psi,Kpa)at any time;
- Self-diagnosis;
- Error indication failure alarm;
- 4-pins M12A standard (male) fieldbus connector;
- Easy assembling and operating;
- The built-in filter can be easily removed for cleaning or replacement;
- The valve body made by microdiecast technology;
- Large flow rate;
- Protection class IP65;

How to order?

Series No.	Valve body size	Port size	Pressure range	Input signal	Monitor output	Port size	Bracket	Cable connector type
3000: 3000 Series	02: 1/4"	03: 3/8"	10: 0.1MPa	0: 4-20mA (confluent)	1: 1-5V	Blank: G	Blank: Without bracket	Blank: Without cable connector
4000: 4000 Series	03: 3/8"	04: 1/2"	30: 0.5MPa	2: 0-5V	4: 4-20mA(confluent)	P: PT	B: Flat bracket	L: Right angle type 2m
			50: 0.9MPa	1: 1-5V	2: 24V NPN	T: NPT	C: L- bracket	S: Straight type 2m
				3: 0-10V	3: 24V PNP			

ETV:ETV series
Electro-Pneumatic
proportional regulator

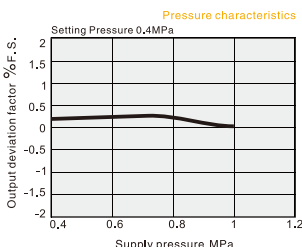
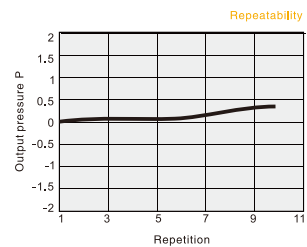
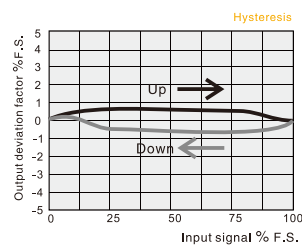
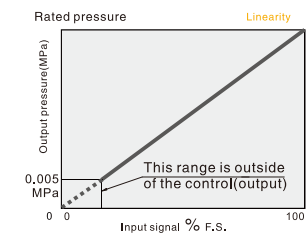
Order Example: ETV series Electro-Pneumatic Proportional Regulator, valve body3000, port size1/4" ,output pressure 0-0.9MPa,input signa 0-10V, Monitor output1-5V,port size G,Flat bracket,straight type 2m, ERP code is: ETV3000-025031-BS.

ETV Series Assessories Order Code

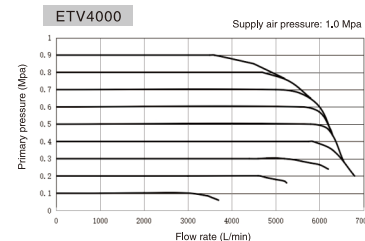
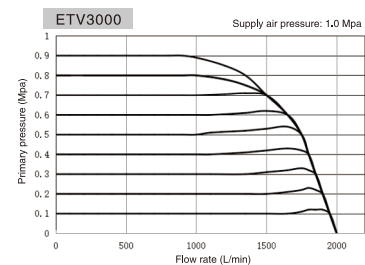
Cable connector Name	Order code	Bracket Name	Order code
4-pins M12A standard Straight type 2m	M124R-PVC-2M	Flat bracket	FJ-ETV-FA
4-pins M12A standard Right angle type 2m	M124RL-PVC-2M	L- bracket	FJ-ETV-LB

Note: Normal cable connector length is 2m,any other model need to be customized production,max length 10m.

Characteristic Parameters Curve



Characteristic Parameters Curve



Specifications

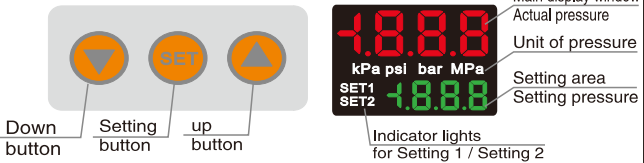
Model	ETV3000-02	ETV3000-03	ETV4000-03	ETV4000-04
Port size	G1/4	G3/8	G3/8	G1/2
Flow rate (Cv)	1.5	2.0	2.5	3.0
Weight	365g	358g	641g	632g
Pressure range	0.005-0.1MPa / 0.005-0.5MPa / 0.005-0.9MPa			
Input signal	0-10V or 0-5V or 4-20mA(sink)			
Monitor output	4-20mA (sink) / 1-5V / 1 digital switch output			
Connector type	4-pins M12A standard(Male)			
Supply Voltage	DC24V $\pm 10\%$			
Power	$\leq 5W$			
Enclosure	IP65 (DIN40050)			
Working temperature	0-50°C			
Working medium	Clear air(After 5 μ m filtration)			
LCD display	Set pressure and actual pressure display at the same time			
Valve body	Aluminium alloy			
Installation position	Random direction			
Max input pressure	1.0MPa (Output 0.1MPa, Max. 0.2MPa)			
Min input pressure	Set pressure +0.1MPa			
Accuracy	$\leq \pm 0.5\%$ F.S.			
Linearity	$\leq 1.0\%$ F.S.			
Repeatability	$\leq \pm 0.5\%$ F.S.			
Hysteresis	$\leq 0.5\%$ F.S.			
Weight (g)	365	358	641	632

Wiring

Definition	Electrical connection
PIN number	Cable color
PIN1	Brown
PIN2	White
PIN3	Blue
PIN4	Black
	Analog input type
	+24VDC
	Positive pole of control singa
	Negative pole of power
	Monitor singal

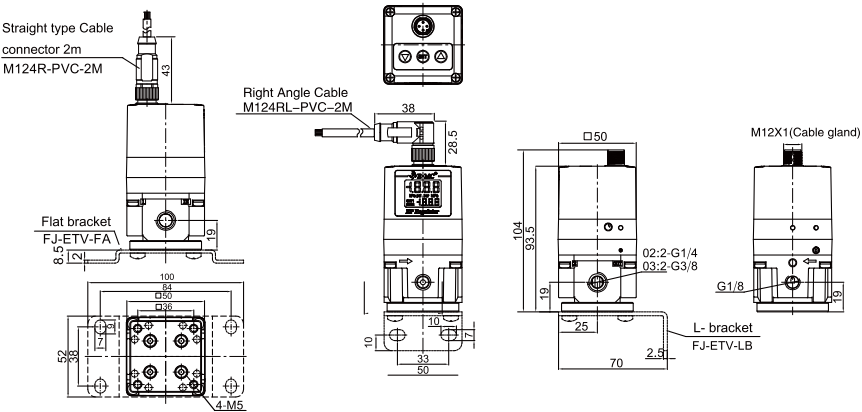


Button & LCD Screen

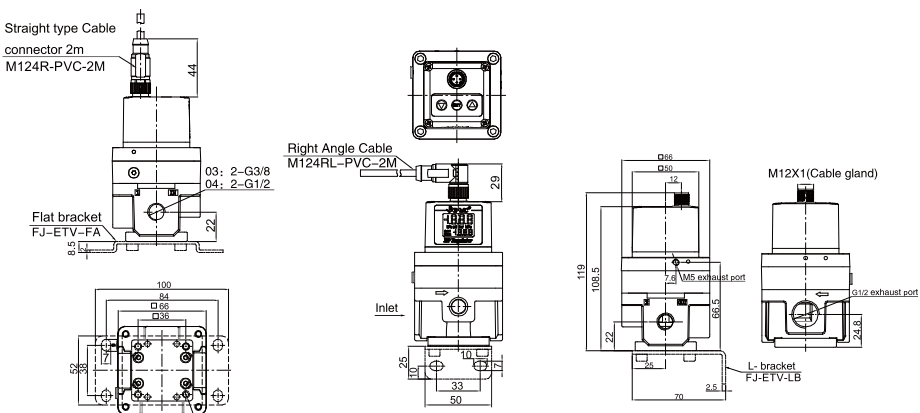


Main Dimension

ETV3000



ETV4000





ETVM3000

Integrated proportional valve



Product Features

- Adopt integrated row installation, proportional valve plate design, easy installation, more efficient centralized gas supply;
- The exhaust muffler ensures a quiet working environment, and the side nozzle makes maintenance easy and simple;
- High-strength aluminum alloy bus bar, which is hard oxidized and durable;
- 2 ~ 8 standard specifications are optional, supporting non-standard customization to meet the needs of different applications;
- Inherit the excellent quality characteristics of standard ETV series to ensure stable performance and excellent quality.

How to order

Series No.	Valve body size	Port Size	Output pressure range	Input signal	Monitor output	Thread Type	Cable	Qty
ETVM: Integrated proportional valve	3000: 3000 Series	02: 1/4" 03: 3/8"	10: 0.1MPa 30: 0.5MPa 50: 0.9MPa	0: 4-20mA (confluent) 2: 0-5V 3: 0-10V	1: 1-5V 4: 4-20mA(confluent) 1: 1-5V 2: 24V NPN 3: 24V PNP	Blank: G P: PT T: NPT	Blank: Without cable L: Right angle type 2m S: Straight type 2m	2F: 2 stations 3F: 3 stations 8F: 8 stations

Order Example:

ETVM series integrated proportional valve, valve body 3000, port size 1/4", output pressure 0-0.9MPa , input signa 0-10V, Monitor output1-5V, thread type G, straight type 2m,3stations, ERP code is ETVM3000-025031-S-3F.

Manifold: How to order

Series No.	Port Size	Stations	Thread type
ETVM3000: Tandem proportional valve	02: 1/4" 03: 3/8"	2F: 2 stations 3F: 3 stations 8F: 8 stations	Blank: G P: PT T: NPT

Order Example:

ETVM series Integrated proportional valve, valve body 3000port size 1/4",3 statoion, thread type GERP code is ETVM3000-02-2F.

How to order: Proportional Valve (Single Valve)

Series No.	Valve body size	Output pressure range	Input signal	Monitor output	Cable
ETVM: Integrated proportional valve	3000: 3000 Series	10: 0.1MPa 30: 0.5MPa 50: 0.9MPa	0: 4-20mA 2: 0-5V 3: 0-10V	1: 1-5V 4: 4-20mA 1: 1-5V 2: 24V NPN 3: 24V PNP	Blank: Without cable L: Right angle type 2m S: Straight type 2m

Order Example:

ETVM series integrated proportional valve, valve body 3000, output pressure 0-0.9MPa , input signa 0-10V, Monitor output1-5V, without cable, ERP code is ETVM3000-5031

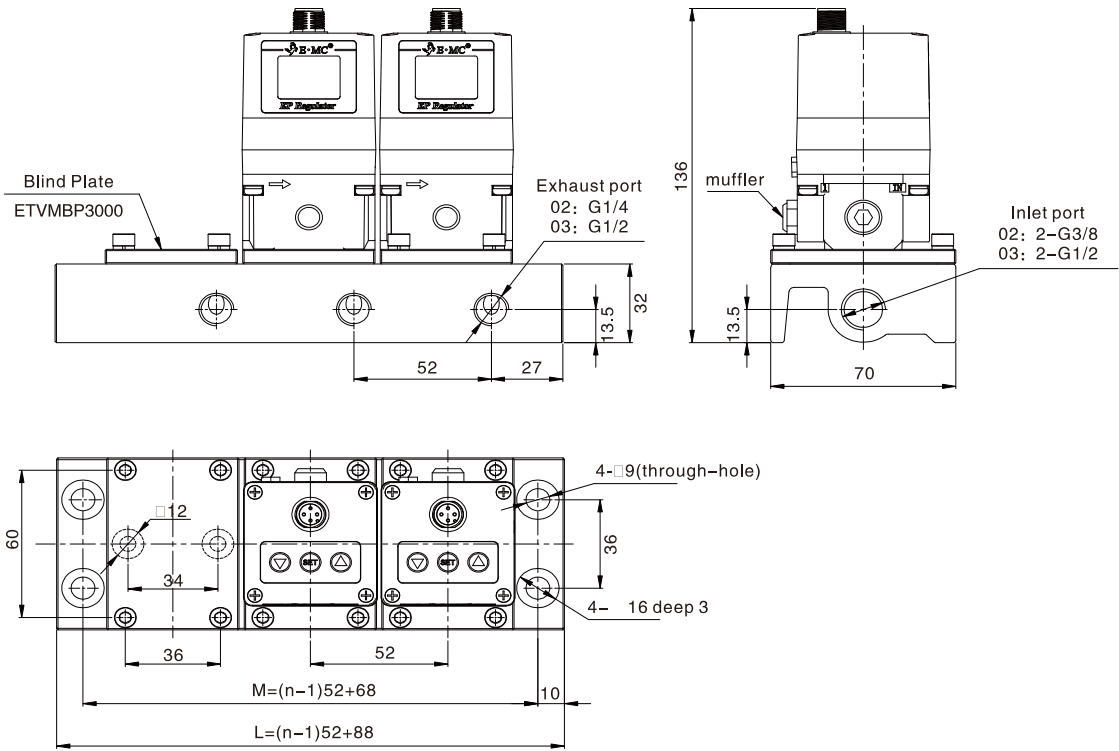
How to order of assessories

Accessory name	Order Code
4-pins M12A standard Straighttype 2m	M124R-PVC-2M
4-pins M12A standard Right angletype 2m	M124RL-PVC-2M
Blind Plate	ETVMBP3000

Remark:

The length of standard cable is 2m
Any other length can be customized,
the maximum length is 10 meters

Main Dimension



Model Symbol	2 Stations	3 Stations	4 Stations	5 Stations	6 Stations	7 Stations	8 Stations
L	140	192	244	296	348	400	452
M	120	172	224	276	328	380	432

EAVR
Vacuum Regulator



Product Feature

- Stable pressure regulation, small drift, good pressure characteristics, large flow.
- Multiple installation modes, Common with EA series bracket
- Press-in self-locking mechanism, prevent the change of prssure regulation caused by external interference.

How to Order?

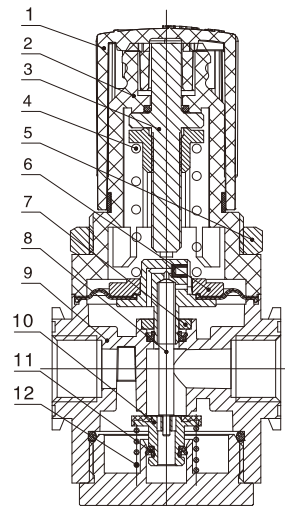
Code	—	Joint Pipe Bore	Pressure Gague	Bracket	Thread Type Code
EAVR2000:EAVR2000 Vacuum Regulator		01:1/8" 02:1/4"	Blank: Not gauge (kPa&psi) N: without gauge	Blank: with bracket J:without bracket	Blank: G P: PT T: NPT
EAVR3000:EAVR3000 Vacuum Regulator		02:1/4" 03:3/8" 04:1/2"			

Order Example: EAVR2000 Vacuum Regulator, Joint pipe bore: 1/8 " , with attached with bracket , G teeth. Order code is:EAVR2000-01

Specifications

models	EAVR2000-01	EAVR2000-02	EAVR3000-02	EAVR3000-03	EAVR3000-04
Use the medium	Clean air(After 40 μ m filtration)				
Use the medium	1/8"	1/4"	1/4"	3/8"	1/2"
Maximum operating	-1.0Kpa				
Pressure range	-100~-1.3Kpa				
Ambient temperature and use fluid temperature	-20~70° C(No freezing)				
Atmospheric suction consumption	<0.6L/min(ANR)				
Mass(g)	185.5		437		

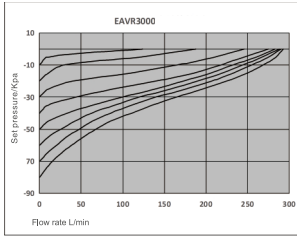
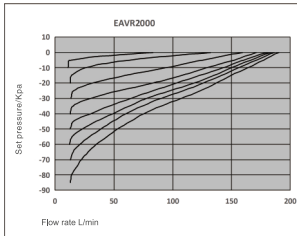
Internal Structure



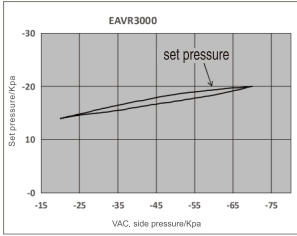
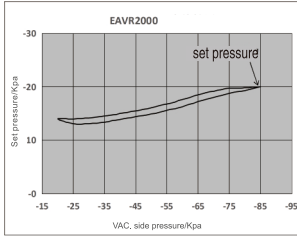
NO.	Part Name	Material
1	Pressure regulator handle	Pressure regulator handle
2	Pressure regulator cover	Pressure regulator cover
3	Adjusting screw assembly	Adjusting screw assembly
4	Pressure regulating spring	Pressure regulating spring
5	Octagonal hat	Octagonal hat
6	Main pressure regulating diaphragm component	Main pressure regulating diaphragm component
7	Baffle	Baffle
8	Valve stem	Valve stem
9	Valve body	Valve body
10	Valve core coating diagram	Valve core coating diagram
11	Piston seal ring	Piston seal ring
12	Spool spring	Spool spring

Characteristic Parameter Curve

Pressure characteristic curve

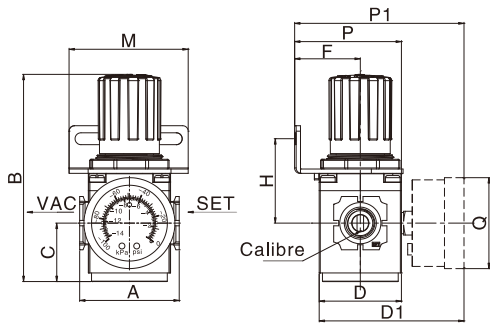


Flow rate characteristic curve

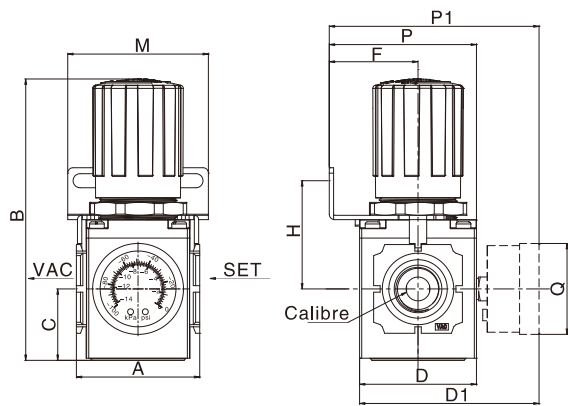


Overall Dimension

EAVR2000



EAVR3000



Model	Joint pipe bore	A	B	C	D	D1	F	H	M	P	Q	Overall dimension
EAVR2000	1/8"1/4"	46	96	27	38	67	30.5	39	55	49.5	42	1/8"
EAVR3000	1/4" 3/8"1/2"	57	130	33	54	83	41	50	65	68	42	1/8"

Installation and Use

1. Use it together with the safety circuit to avoid accidents in the event of power failure or vacuum pump,vacuum regulator failure.
2. During the check, please reduce the set pressure to 0 (atmospheric pressure), and the pressure of the vacuum pump is completely cut off before pulling down the pressure regulator guide.
3. The vacuum regulator cannot be used to adjust the pressure of the vacuum pump, such as the flow of the vacuum generator is smaller than the flow of the vacuum regulator, it is not suitable for use as a vacuum source.
4. The pressure button turns clockwise, atmospheric pressure changes to vacuum pressure, counterclockwise rotation, vacuum pressure changes to atmospheric pressure.
5. After the pressure is set, the pressure regulator needs to be locked, and the pressure regulator should be pressed down until the "click" sound is heard.
6. The pressure regulator is special for negative pressure, and positive pressure cannot be applied.

ERM
Mini Regulator



Product Features

- Unique structural design, good pressure characteristics, large flow
- Variety of piping options are available
- Two ports position (Ø4 , Ø6) are available
- Multiple installation methods

How to Order ?

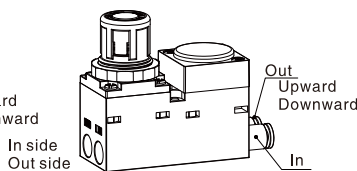
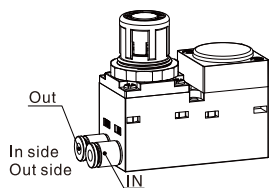
Series NO.	Piping Position	Port Size	Bracket Code	Scale Unit
ERM1000F: ERM series mini pressure regulator single front handwheel type	1. Downward Downward 2. Upward Upward 3. Downward Upward 4. Upward Downward	0404 0606 0604	J: No bracket	1:Mpa 2:Bar 3:Psi

Order Example: ERM series mini pressure regulator single front handwheel type, piping position in downward, out downward, port size in out Ø4~Ø4, no bracket, scale unit Mpa, the ERP code is : ERM1000F-1-0404-J-1

Piping Position

Position Mark	In Downward	In Upward	Out Downward	Out Upward
1	●		●	
2		●		●
3	●			●
4		●	●	

Piping Direction Diagram

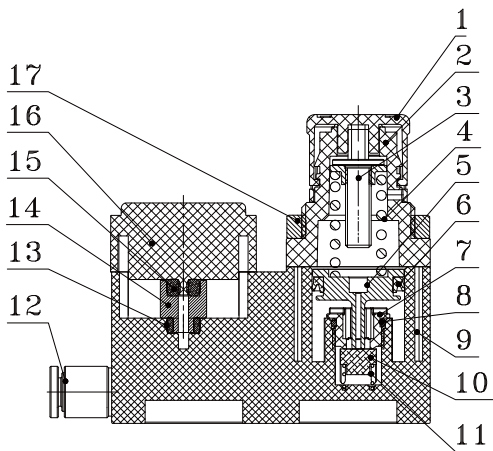


Piping Joint

Portsize Mark	In 4	In 6	Out 4	Out 6
0404	●		●	
0606		●		●
0604			●	●

All joint are straight joint

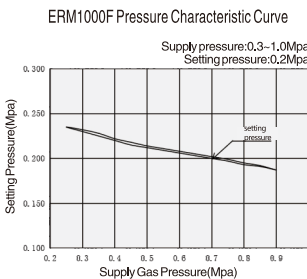
Internal Structure



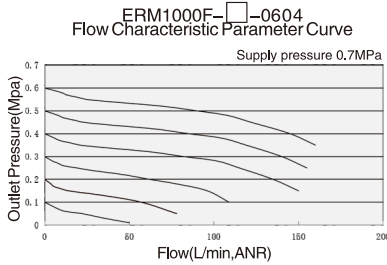
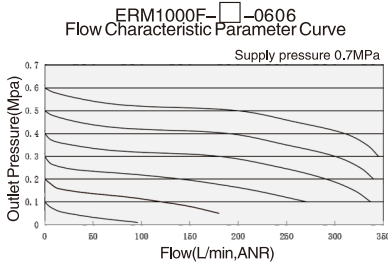
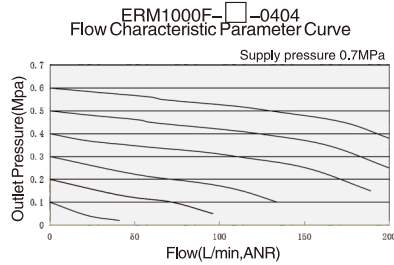
Specifications

Model	ERM1000F
Working Medium	Clean Air
Pressure Regulating Valve Structure	Directly Operated Type
Overflow Structure	Overflow Mode
In External Port	Ø 4 Ø 6
Out External Port	Ø 4 Ø 6
Proof Pressure (Mpa)	1.5
Maximum Working Pressure	1.0
Output pressure range (Mpa)	0.05 ~ 0.85
Working Temperature (°C)	5 ~ 60
Weight (g)	97

Pressure Characteristic Parameter Curve

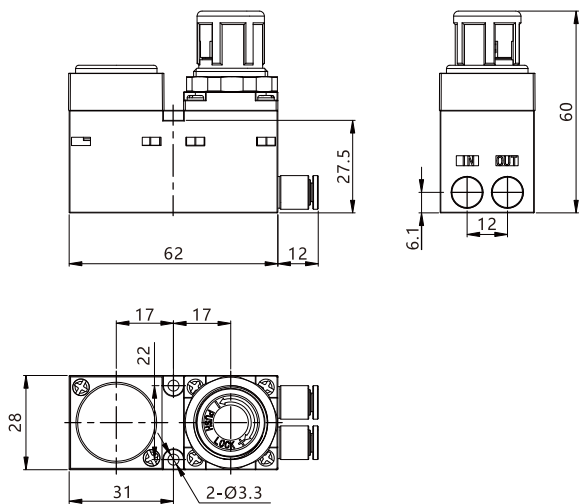


Flow Characteristic Parameter Curve

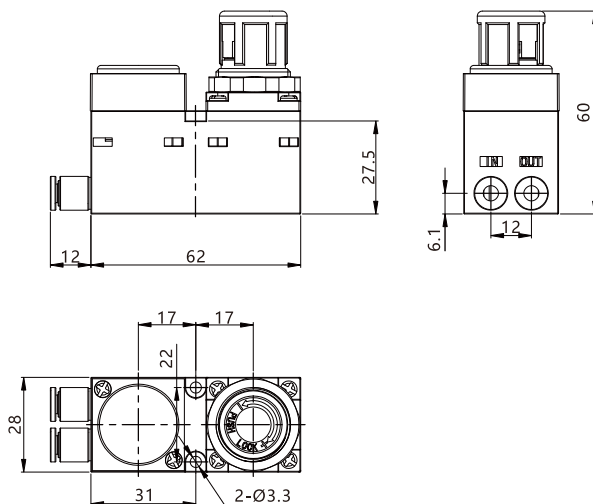


ERM1000F Outline Dimensional Drawing

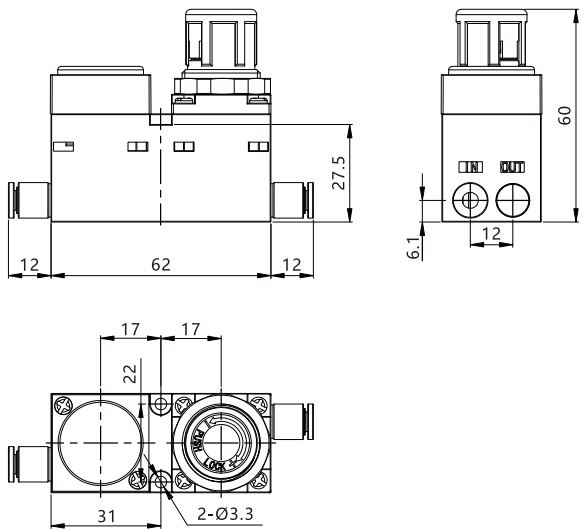
ERM1000F-1-□



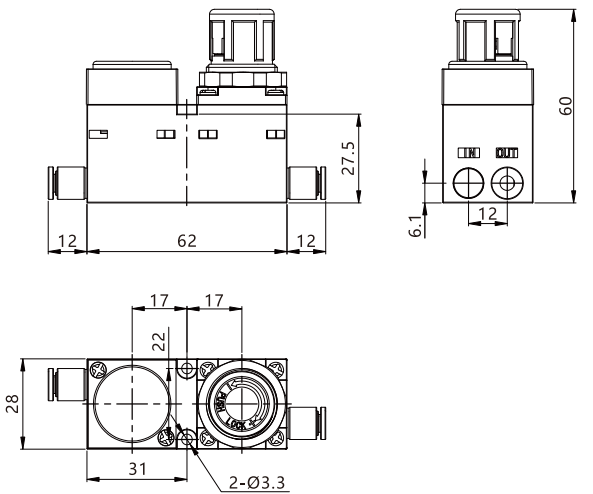
ERM1000F-2-□



ERM1000F-3-□



ERM1000F-4-□





ERM1100

Compact Manifold MINI Pressure Regulator



Product Features

- The integrated design makes installation easier and saves space.
- There are many options for piping position and port size.
- Good pressure characteristics, large flow.
- Pressure sensing and one-click on-off functions are available.

How to Order?

ERM1100AF

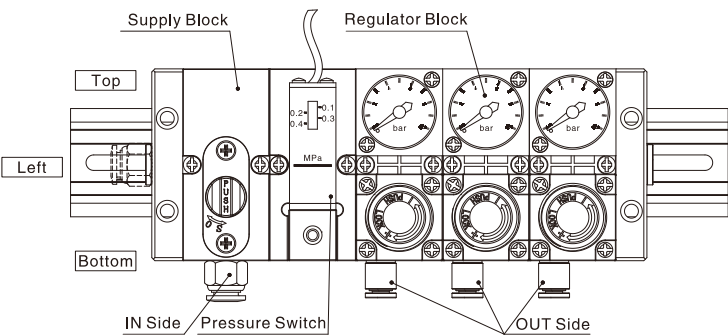
Series NO.	IN/OUT Piping Position	Pipe Size	Regulator Block Stations	Mounting Type	Unit Representation	Accessories																																													
ERM1100AF: Compact Manifold MINI Pressure Regulator Common Supply Type with Front Knob Position																																																			
		<table><tr><td>Pipe size</td><td>IN side</td><td>OUT side</td></tr><tr><td>Symbol</td><td>Ø6</td><td>Ø8</td><td>Ø10</td><td>Ø4</td><td>Ø6</td></tr><tr><td>0604</td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><td>0606</td><td>●</td><td></td><td></td><td></td><td>●</td></tr><tr><td>0804</td><td></td><td>●</td><td></td><td></td><td>●</td></tr><tr><td>0806</td><td></td><td>●</td><td></td><td></td><td>●</td></tr><tr><td>1004</td><td></td><td></td><td>●</td><td></td><td>●</td></tr><tr><td>1006</td><td></td><td></td><td>●</td><td></td><td>●</td></tr></table>	Pipe size	IN side	OUT side	Symbol	Ø6	Ø8	Ø10	Ø4	Ø6	0604	●					0606	●				●	0804		●			●	0806		●			●	1004			●		●	1006			●		●		Blank: with DIN rail J: without DIN rail (Direct mounting type)	1: MPa 2: bar 3: psi	
Pipe size	IN side	OUT side																																																	
Symbol	Ø6	Ø8	Ø10	Ø4	Ø6																																														
0604	●																																																		
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1004			●		●																																														
1006			●		●																																														
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1		●	●	with Supply Block																																															
2		●		with Supply Block																																															
3	●		●	without Supply Block																																															
4	●		●	without Supply Block																																															

Fitting type: Straight

≥2 Station 6:6 Station
2:2 Station 7:7 Station
3:3 Station 8:8 Station
4:4 Station 9:9 Station
5:5 Station 10:10 Station

Accessories	without Accessories	Supply Block	Pressure Switch
Symbol			
N	●		
K			●
L		●	
M		●	●

Note: Factory default set pressure range 0.1~0.4Mpa, wire length 0.5m, scale plate pressure unit Mpa; If you need other specifications, please consult with E-MC.



Order Example:

Compact manifold MINI pressure regulator common supply type with front knob position, IN side pipe position on the bottom, OUT side pipe position on the bottom, pipe size IN-OUT Ø6-Ø4, the quantity of regulator block is 3 stations, with DIN rail, scale unit is MPa, with supply block and pressure switch. Order code is: ERM1100AF-1-0606-3-1-M

ERM1100BF

Series NO.	IN/OUT Piping Position	Pipe Size	Regulator Block Stations	Mounting Type	Unit Representation																																								
ERM1100BF: Compact Manifold MINI Pressure Regulator Individual Supply Type with Front Knob Position																																													
	<table><tr><td>Position</td><td>IN side</td><td>OUT side</td></tr><tr><td>Symbol</td><td>Bottom</td><td>Top</td></tr><tr><td>1</td><td>●</td><td>●</td></tr><tr><td>2</td><td></td><td>●</td></tr><tr><td>3</td><td>●</td><td></td></tr><tr><td>4</td><td></td><td>●</td></tr></table>	Position	IN side	OUT side	Symbol	Bottom	Top	1	●	●	2		●	3	●		4		●	<table><tr><td>Pipe size</td><td>IN side</td><td>OUT side</td></tr><tr><td>Symbol</td><td>Ø4</td><td>Ø6</td><td>Ø4</td><td>Ø6</td></tr><tr><td>0404</td><td>●</td><td></td><td></td><td></td></tr><tr><td>0606</td><td></td><td>●</td><td></td><td>●</td></tr><tr><td>0604</td><td></td><td>●</td><td></td><td>●</td></tr></table>	Pipe size	IN side	OUT side	Symbol	Ø4	Ø6	Ø4	Ø6	0404	●				0606		●		●	0604		●		●	Blank: with DIN rail J: without DIN rail (Direct mounting type)	1: MPa 2: bar 3: psi
Position	IN side	OUT side																																											
Symbol	Bottom	Top																																											
1	●	●																																											
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3	●																																												
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Pipe size	IN side	OUT side																																											
Symbol	Ø4	Ø6	Ø4	Ø6																																									
0404	●																																												
0606		●		●																																									
0604		●		●																																									

Fitting type: Straight

≥2 Station 6:6 Station
2:2 Station 7:7 Station
3:3 Station 8:8 Station
4:4 Station 9:9 Station
5:5 Station 10:10 Station

Order Example: Compact Manifold MINI Pressure Regulator Individual Supply Type with Front Knob Position, IN side pipe position on the bottom, OUT side pipe position on the bottom, pipe size IN-OUT Ø6-Ø4, the quantity of regulator block is 5 stations, without DIN rail, scale unit is Bar. Order code is: ERM1100BF-1-0604-5-J-2

ERM1100AF Serie Compact Manifold MINI Pressure Regulator Individual Module Ordering

Series NO.	IN/OUT Piping Position	Pipe Size	Unit Representation	R
ERM1100AF: Compact Manifold MINI Pressure Regulator Common Supply Type with Front Knob Position	1: Bottom 2: Top	04: Ø4 06: Ø6	1: MPa 2: bar 3: psi	

ERM1100AF-1-□-2

ERM1100AF-2-□-2

Note: 1. This common supply type valve block cannot be used alone, and requires a specific assembly method to be used.
2. The air inlet of this common supply type valve block is fixed. The pipe position and pipe size cannot be selected.

ERM1100BF Serie Compact Manifold MINI Pressure Regulator Individual Module Ordering

Series NO.	IN/OUT Piping Position	Pipe Size	Unit Representation	R																																									
ERM1100BF: Compact Manifold MINI Pressure Regulator Individual Supply Type with Front Knob Position																																													
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Position	IN side	OUT side																																											
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Symbol	Ø4	Ø6	Ø4	Ø6																																									
0404	●																																												
0606		●		●																																									
0604		●		●																																									

Fitting type: Straight

ERM1100BF-1-□

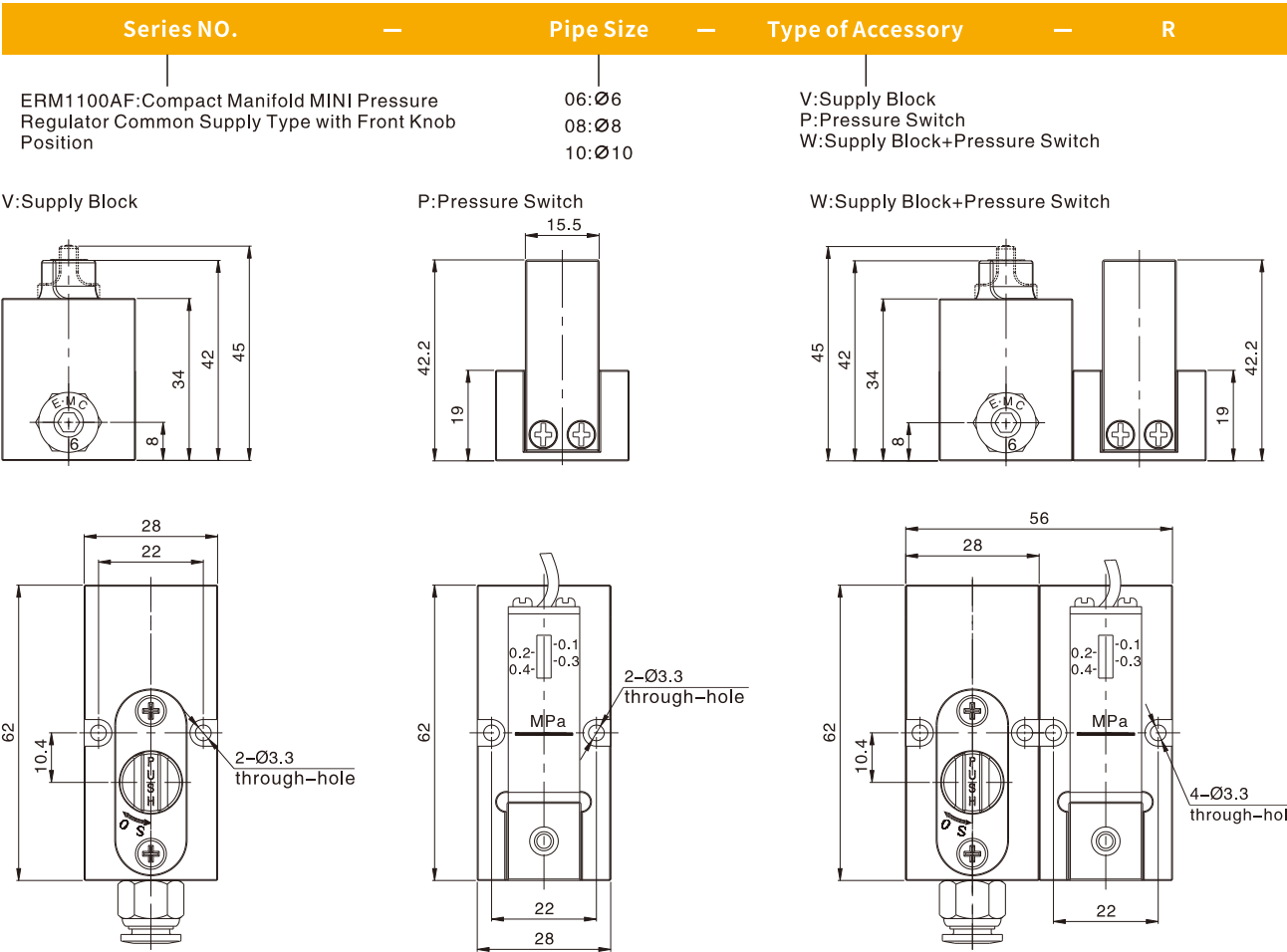
ERM1100BF-2-□

ERM1100BF-3-□

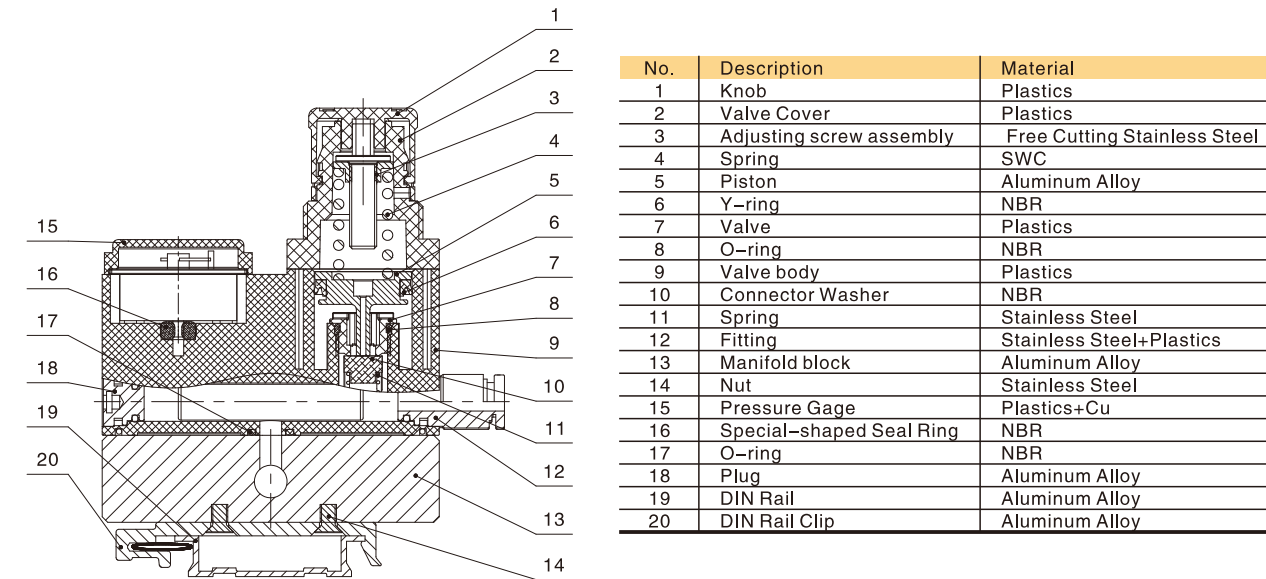
ERM1100BF-4-□



ERM1100AF Serie Supply Block and Pressure Switch



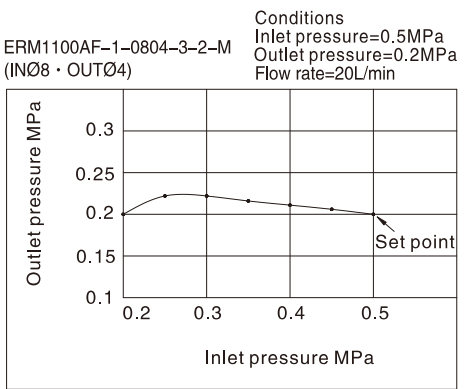
Interior Structure



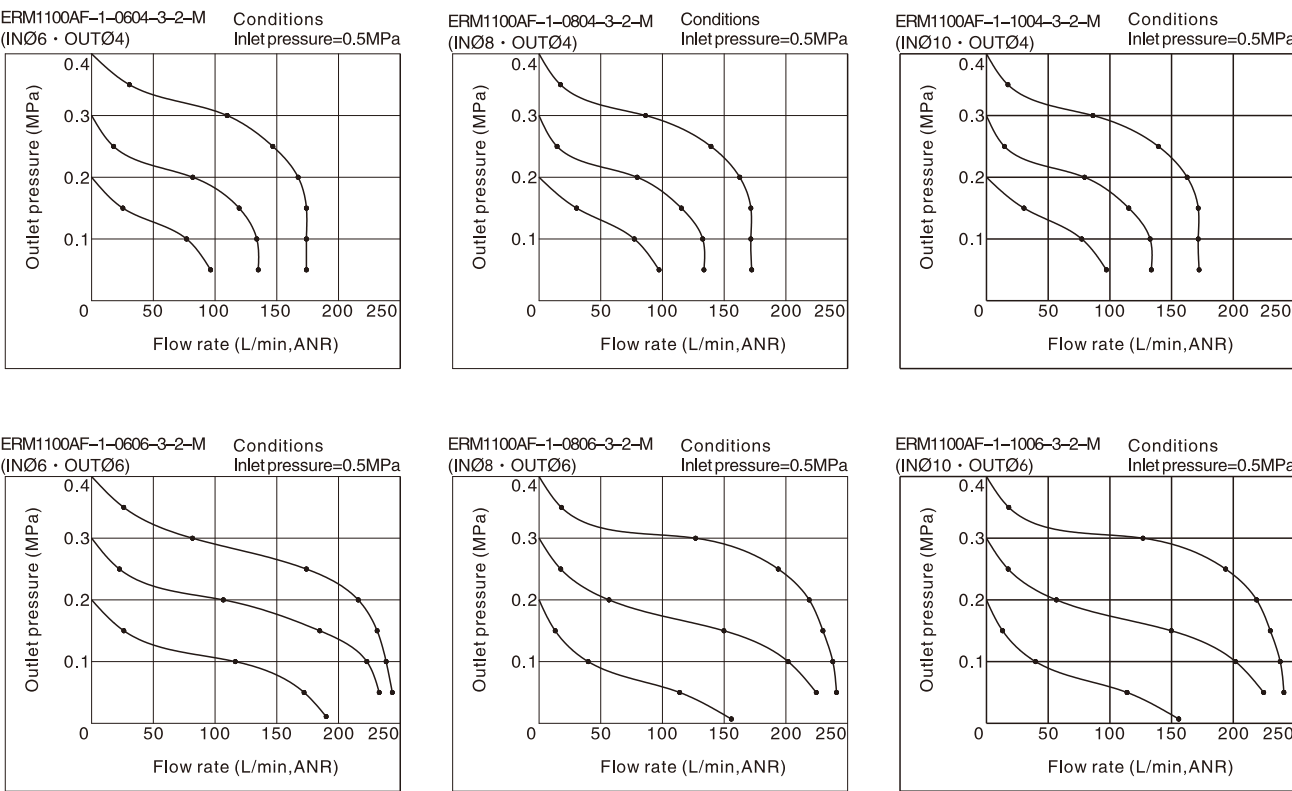
Specification

Model	ERM1100AF	ERM1100BF
Working Medium	Air	
Regulator construction	Direct acting	
Working principal	Piston type	
Relief mechanism	Relief type	
IN side tubing O.D.	Ø6 Ø8 Ø10	Ø4 Ø6
OUT side tubing O.D.	Ø4 Ø6	
Proof pressure(MPa)	1.5	
Maximum operating pressure(MPa)	1.0	
Set pressure range(MPa)	0.05 ~ 0.7	
Work Temperature(°C)	5 ~ 60	

Pressure Characteristics



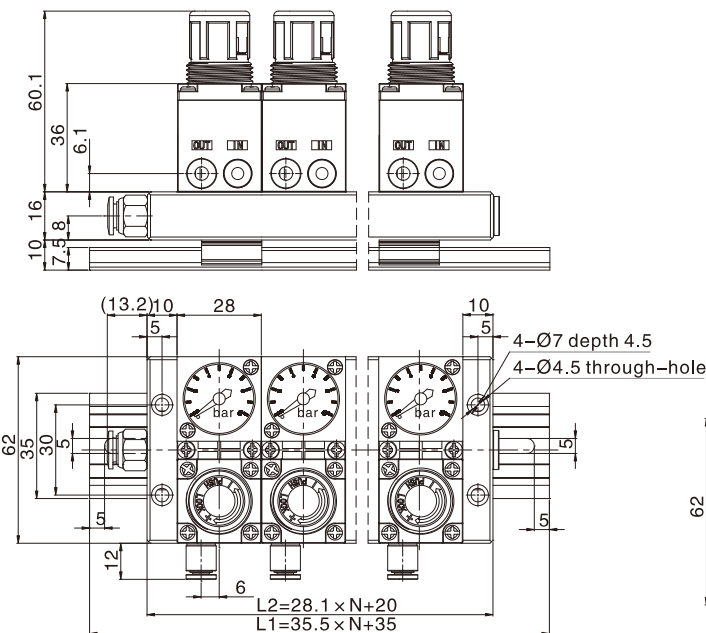
Flow Rate Characteristics



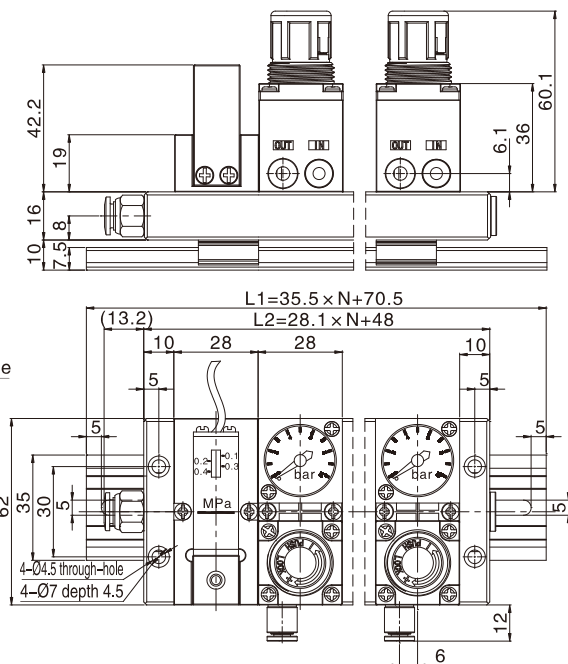


○ Dimensions

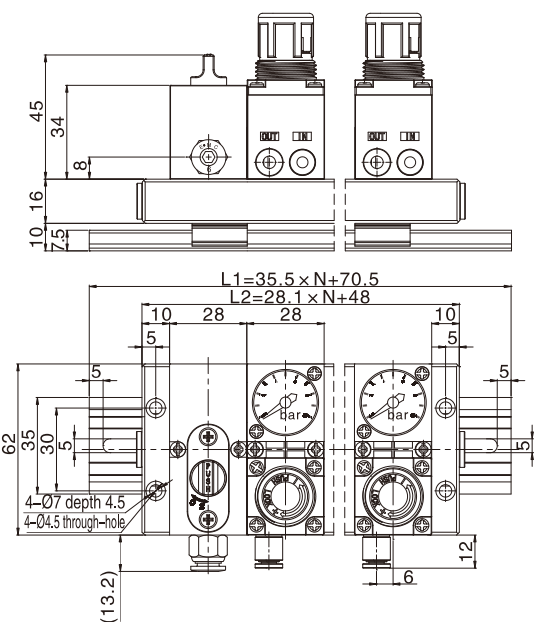
ERM1100AF—without Accessory



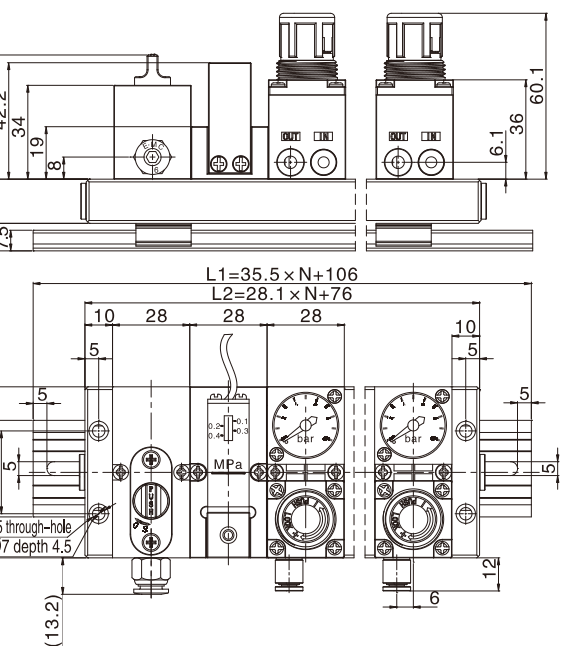
ERM1100AF—with Pressure Switch



ERM1100AF—with Supply Block



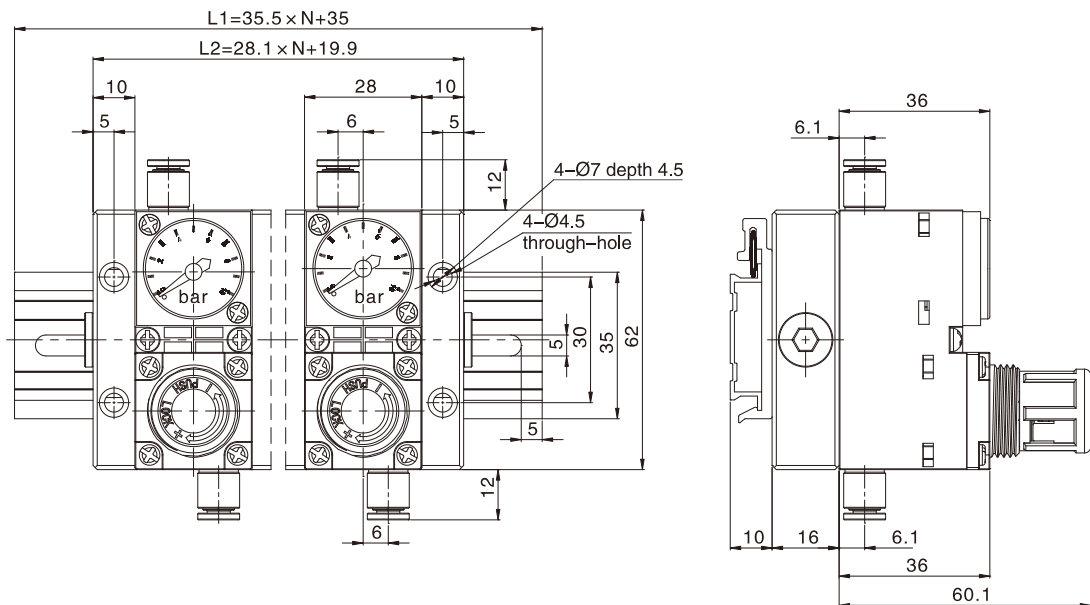
ERM1100AF—with Supply Block+Pressure Switch



Note: N means regulator block stations

○ Dimensions

ERM1100BF—3-□-□-2



Note: Compact manifold regulator individual supply Type of other containerized types only has different piping positions, and the other dimensions are the same.

PS30

Digital Display Pressure Switch



Product Features

- Compact appearance and easy to assemble.
- The current value and reference value are displayed simultaneously, and the reference value can be directly set.
- Dual screen, three color display of red, green, and orange.
- Digital display, more recognizable.

How to Order?

Series No.	Pressure Type	Output Type	Port Size
PS30: Economical type	P: Positive pressure C: Continuous pressure	NP: 1-circuit switching value, adjustable, its factory default NPN NPV: 1-circuit switching value, adjustable, its factory default NPN)+ 1-analog voltage output(1~5V) NPA: 1-circuit switching value, adjustable, its factory default NPN)+ 1-analog current output(4~20mA)	01: PT1/8(M5)

Installation Accessories: Sold Separately

Panel Installation bracket	MS-PS-01	PS30 and PS42 are intercha-ngeable
Front protective cover	MS-PS-02	
Front protective cover	MS-PS-03	
L-shaped bracket	MS-PS-04	
Z-shaped bracket	MS-PS-05	

Product Profile

Type	Positive pressure	Continuous pressure
1000kPa		
100kPa		
-100kPa		
Rated pressure range	-0.1MPa~1.0MPa	-100kPa~100kPa
Set pressure range	-0.1MPa~1.0MPa	-100kPa~100kPa

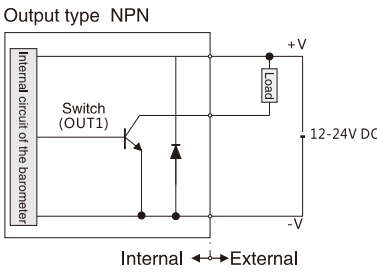
Specifications

Models	Positive Pressure	Continuous Pressure
Type of pressure	Standard pressure	
Rated pressure range*	-0.1MPa~1.0MPa	-100kPa~100kPa
Set pressure range*	-0.1MPa~1.0MPa	-100kPa~100kPa
Pressure resistance	1.5MPa	500kPa
Applicable fluid	Non corrosive gas	
Supply voltage	12~24V DC ± 5%	
Consumption current	24V 30mA Max	12V 60mA Max
Switch output	NPN O.C output:80mA/24VDCMax or PNP O.C output :80mA/24VDC	
Repetitive accuracy	± 0.2%F.S.	± 0.5%F.S.
Reaction time	Select through key operation:2.5ms,5ms,10ms,25ms,50ms,100ms,250ms,500ms,1000ms,5000ms	
Analog output	Voltage output	0.6V~5V (or slightly lower) Linearity: ± 1%F.S. Output impedance: 1K Ω
	Current output	2.4mA~20mA(or slightly lower) 4mA~20mA(or slightly lower) Linearity: ± 1%F.S. Maximum load impedance, when the supply voltage is 12V:300 Ω; 24V power supply: 600 Ω minimum load impedance :50 Ω
	Range of temperature	Working temperature :0~50℃ Storage temperature :-10~60℃(no condensation, no icing)
Range of humidity	35~85%RH	
Temperature characteristics	± 1%F.S.(25℃)	
Protection level	IP40	
Material	Outer shell: Nylon + glass fiber LCD display: Propylene Pressure port: External thread POM+ inlaid N5 copper Seal ring: H-NBR Keys: Silicone rubber	
Overall dimensions	30 x 30 x 25mm(plastic part)/30 x 30 x 43mm (including connectors)	
Weight	Approx 80g (barometer body + user interface connector)	

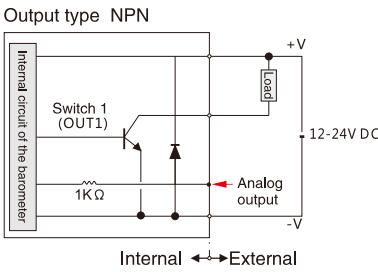
※ Note: Due to the influence of temperature and linear compensation, there may be slight fluctuation near the upper/lower range of the barometer, which is positive Panel description

I/O Circuit Diagram and Wiring Diagram

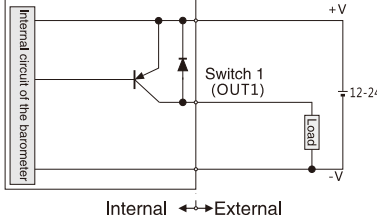
Output type without analog



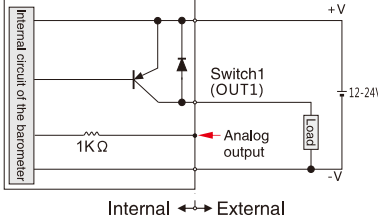
Output type with analog



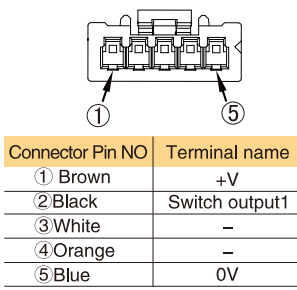
Outout type PNP



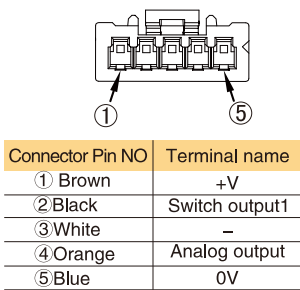
Outout type PNP



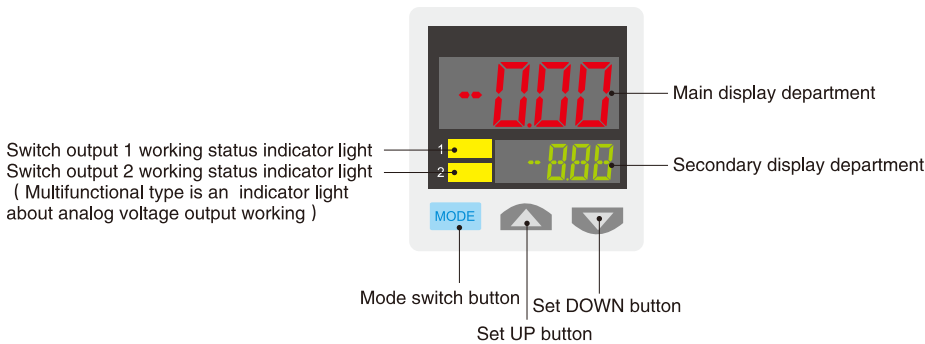
Terminal arrangement diagram



Terminal arrangement diagram



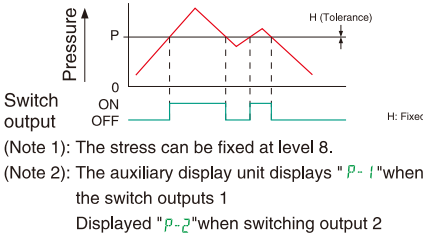
Panel Description



Input Mode and Output Mode

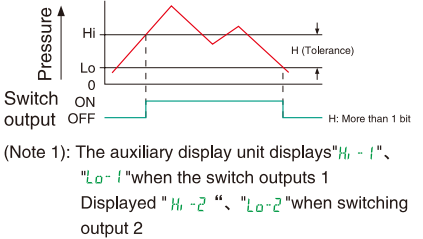
① EASYmode

Mode for switch output ON/OFF control



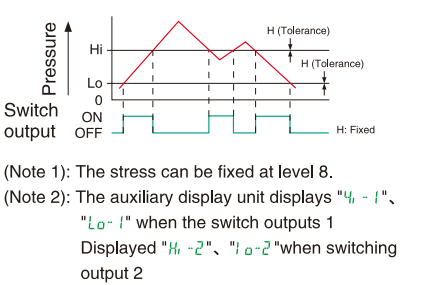
② Lag mode

Mode for switch output ON/OFF control

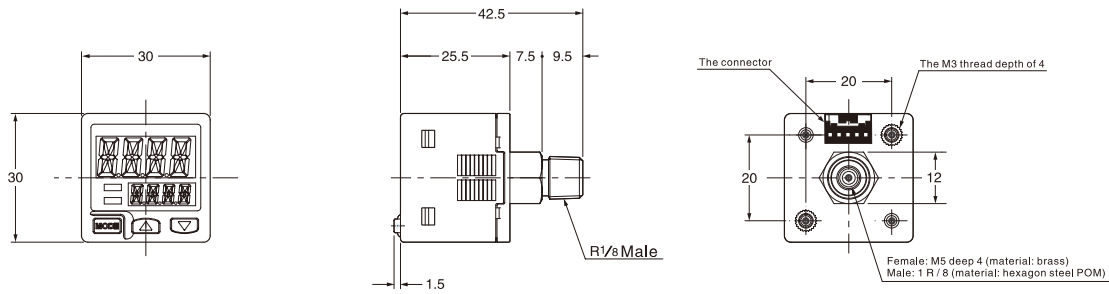


③ Window comparison mode

Set the switch to ON or OFF mode according to the pressure within the set range

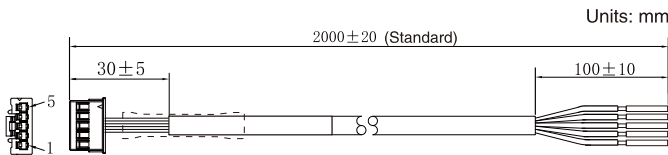


Outline Dimensional Drawing



Accessories Parts

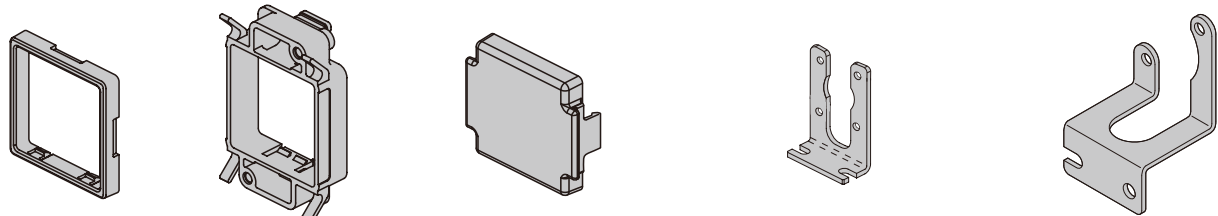
Accessories parts(1): cables



Please use the attached form a complete set of connecting cable with plug.

Note: remove, please hold the connection head part to be removed, otherwise it will cause cable bolt, connecting cable damage.

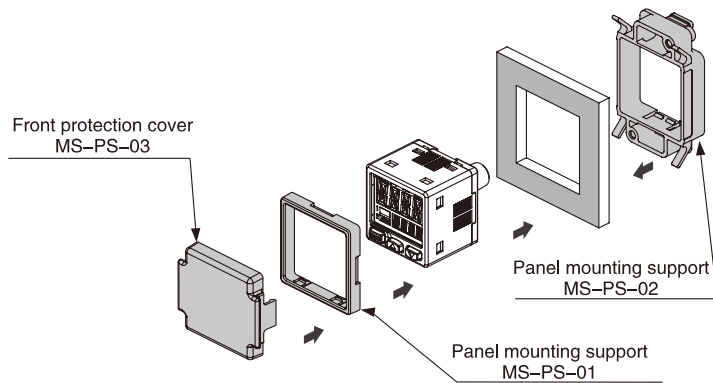
Accessories parts(2): the mounting bracket (sold separately)



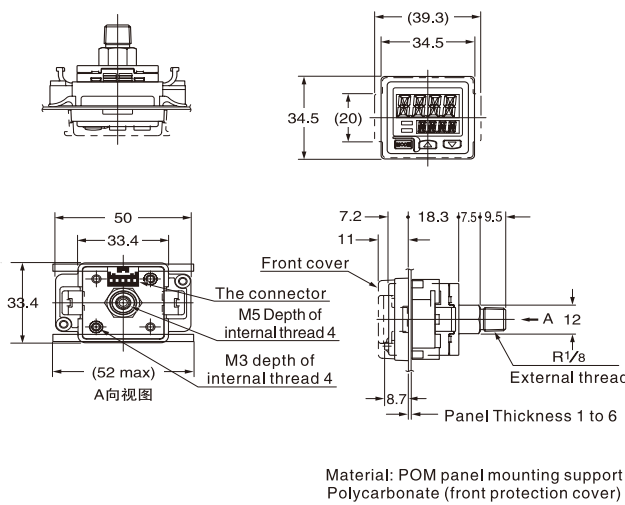
Type 01 panel support (MS-PS-01) Type 02 panel support (MS-PS-02) Type 03 front protection cover (MS-PS-03) Type 04 sensor mounting support (MS-PS-04) Type 05 sensor mounting support (MS-PS-05)

Product name	Type number	Type number
Sensor mounting bracket	MS-PS-04	Sensors can be mounted on the bottom or top side, or multiple sensors can be installed closely.
	MS-PS-05	The sensor can be mounted in the rear direction, or multiple sensors can be installed closely.
Panel mounting bracket	MS-PS-02	When used together, the sensor can be mounted on a panel with a thickness of 1 to 6mm, or multiple sensors can be installed closely.
	MS-PS-01	
Panel mounting bracket	MS-PS-03	Protect the adjusting surface of the sensor. (This protective cover can be installed when mounting the bracket using the panel.)

Insyallation Instruction

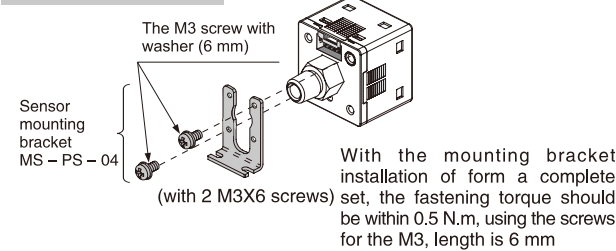


Bracket Size

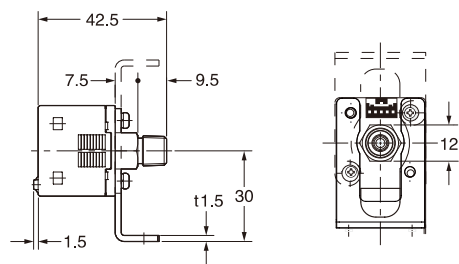


Bracket Installation (MS - PS - 04)

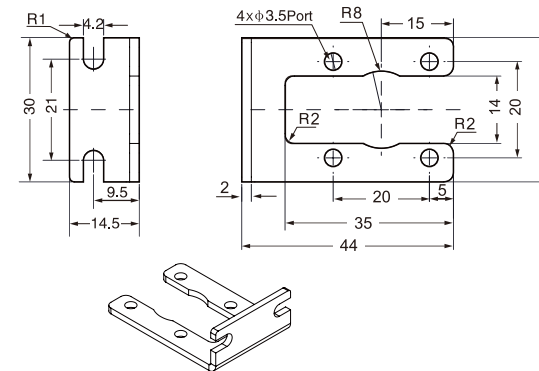
Installation instructions



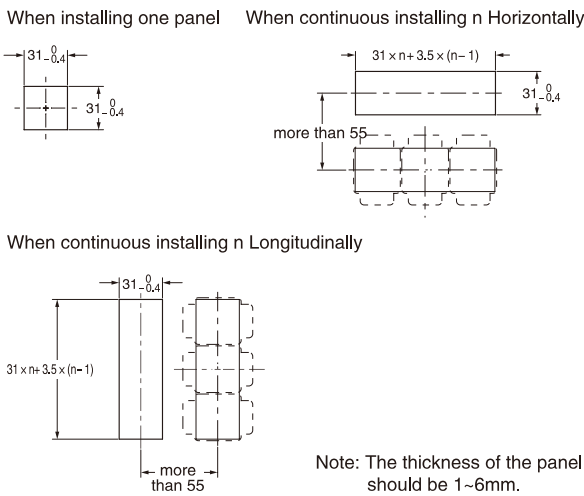
Installation effect



Bracket size

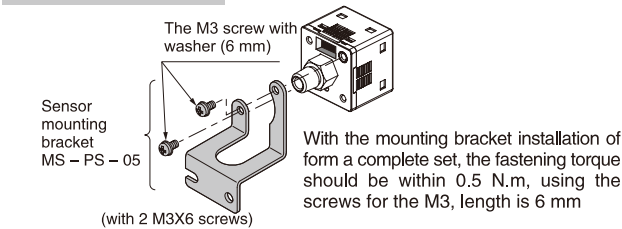


Panel Dimensions

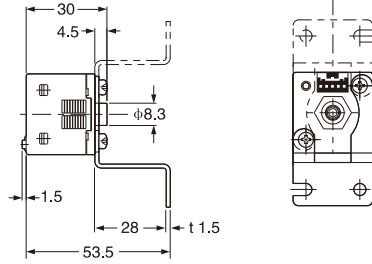


Bracket Installation (MS - PS - 05)

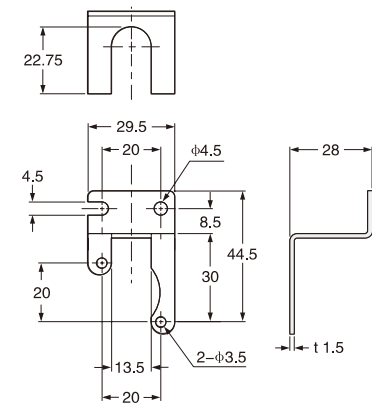
Installation instructions



Installation effect



Bracket size



PS42

Digital Display Pressure Switch (RS485)



Product Features

- RS485 communication.
- Compact shape,easy installation.
- "Current value" and "reference value" display at the same time, reference value can be directly set.
- Double screen, 3 color display (red, green, orange).
- Digital display,More legible.

How to Order?

Series No.	Category Code	Output Type	Port Size
PS42: Compact type	P: Positive pressure (−0.1MPa~1.0MPa) C: Continuous pressure (−100kPa~100kPa)		01: PT1/8(M5)
2NPV: 2 channel switching quantity (NPN/PNP adjustable, factory default NPN)+1 channel analog voltage output (1~5V) 2NPA: 2 channel switching quantity (NPN/PNP adjustable, factory default NPN)+1 channel analog current output (4~20mA) NPR: 1 channel switching quantity (NPN/PNP adjustable, factory default NPN)+RS485 communication			

Specifications

Models		Positive Pressure	Continuous Pressure
Type of pressure		Standard pressure	
Rated pressure range※		−0.1MPa~1.0MPa	−100kPa~100kPa
Set pressure range※		−0.1MPa~1.0MPa	−100kPa~100kPa
Resistance to pressure		1.5MPa	500kPa
Applicable fluid		Non corrosive gas	
Non-corrosive gases		12~24V DC ± 5%	
Consumption current		24V 30mA Max	12V 60mA Max
Switch output		NPN O.C Output: 80mA/24VDC Max or PNP O.C output:	
Repeat accuracy		± 0.2%F.S.	± 0.5%F.S.
Reaction time		Select through key operation:2.5ms,5ms,10ms,25ms,50ms,100ms,250ms,500ms,1000ms,5000ms	
Analog quantity output	Voltage output	0.6V~5V(or slightly lower)	1V~5V(or slightly lower)
	Current output	2.4mA~20mA(or slightly lower)	4mA~20mA(or slightly lower)
Linearity: ± 1%F.S. Maximum load impedance, power supply voltage 12V: 300Ω; 24V power supply: 600Ω minimum load impedance: 50Ω		Straightness: ± 1%F.S. Output impedance: 1KΩ	
Temperature range		Operating temperature: 0~50℃ Storage temperature: −10~60℃(no condensation, no icing)	
Humidity range		35~85%RH	
Temperature characteristic		± 0.5%F.S.(25℃)	
Protection class		IP40	
Material		1 Case: Nylon + fiberglass 2 LCD Display: Propylene 3 pressure port: External thread POM+ inlaid N5 Copper nut 4 seal ring :H-NBR 5 Keys: Silicone rubber	
Overall dimensions		30x 30x25mm(plastic part) /30x30x43mm (including fittings)	
Weight		About 80g (barometer body + user interface connector)	

※ Note: Due to the influence of temperature and linear compensation, there may be slight fluctuations around the upper/lower range of the barometer, which is normal.

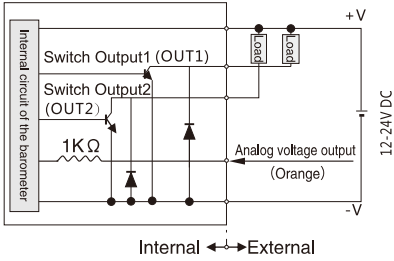
Product Profile

Type	Positive pressure	Continuous pressure
1000kPa		
100kPa		
−100kPa		
Rated pressure range	−0.1MPa~1.0MPa	−100kPa~100kPa
Set pressure range	−0.1MPa~1.0MPa	−100kPa~100kPa

I/O Circuit Diagram and Circuit Diagram

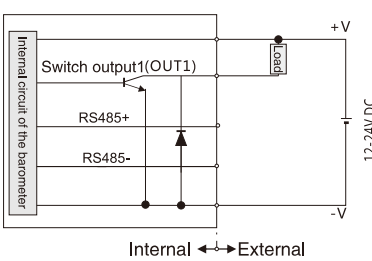
Non-RS485 models

NPN output type

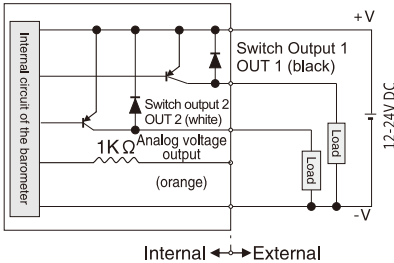


RS485 model

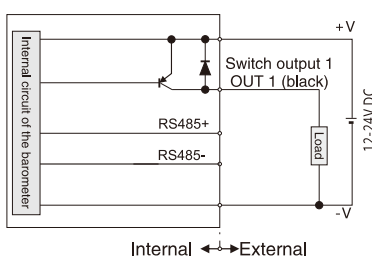
NPN output type



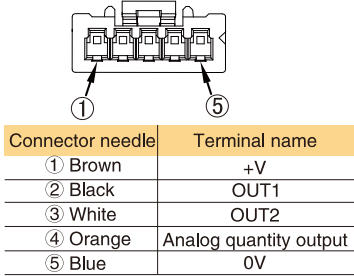
PNP output type



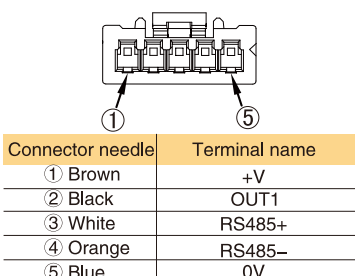
PNP output type



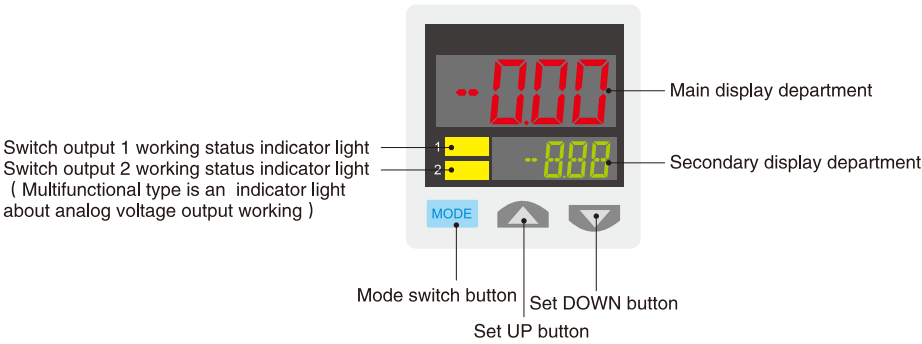
Terminal arrangement diagram



Terminal arrangement diagram



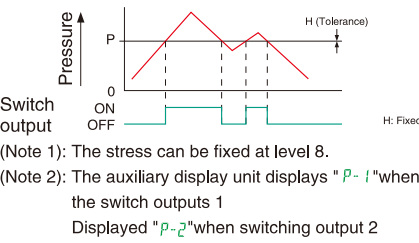
Panel Description



Input Mode and Output Mode

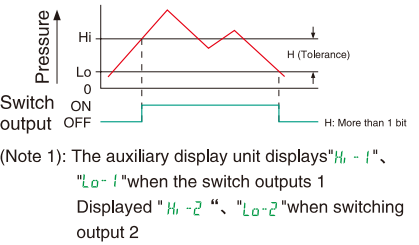
① EASYmode

Mode for switch output ON/OFF control



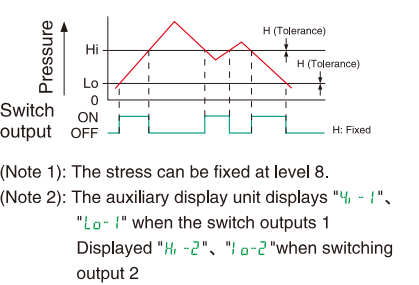
② Lag mode

Mode for switch output ON/OFF control

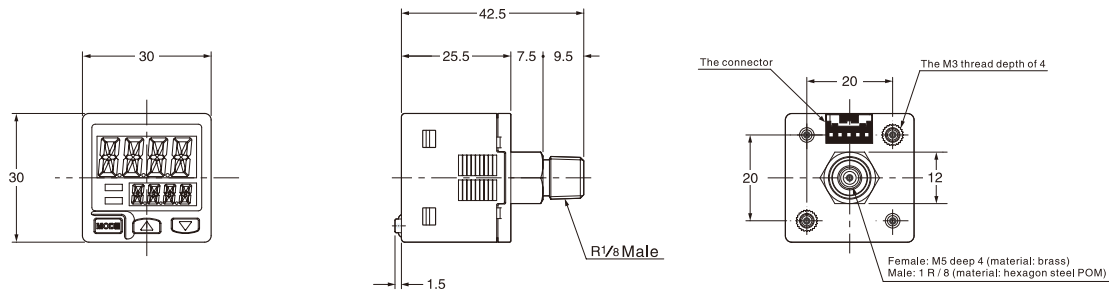


③ Window comparison mode

Set the switch to ON or OFF mode according to the pressure within the set range

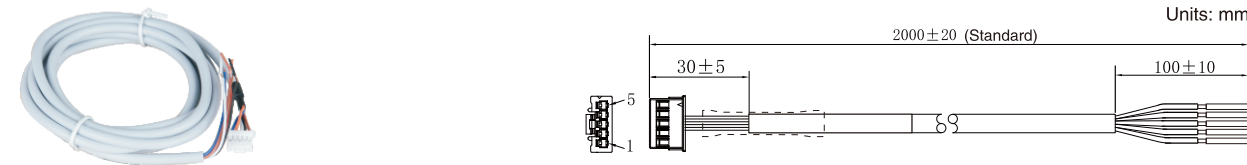


Outline Dimensional Drawing



Accessories Parts

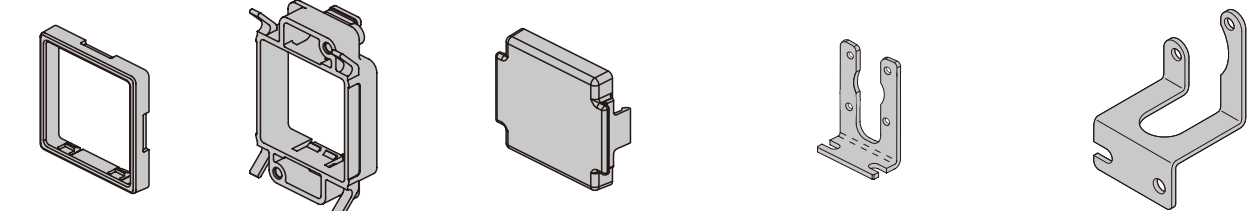
Accessories parts(1): cables



Please use the attached form a complete set of connecting cable with plug.

Note: remove, please hold the connection head part to be removed, otherwise it will cause cable bolt, connecting cable damage.

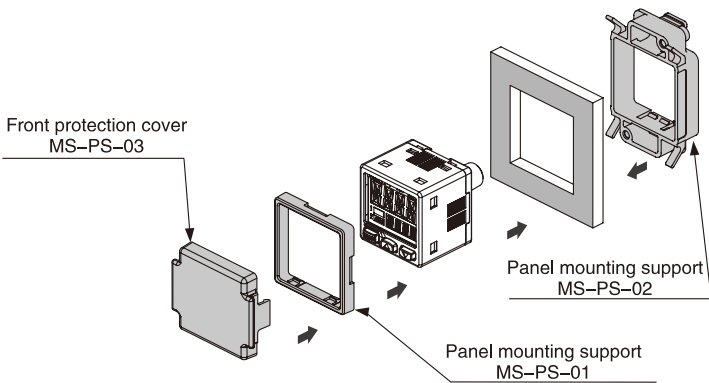
Accessories parts(2): the mounting bracket (sold separately)



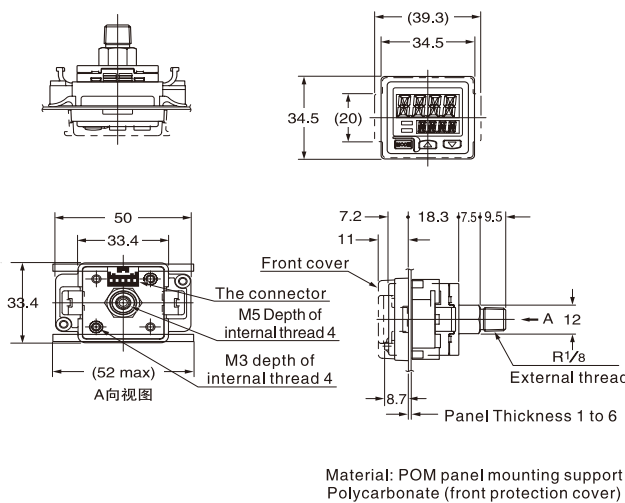
Type 01 panel support (MS-PS-01) Type 02 panel support (MS-PS-02) Type 03 front protection cover (MS-PS-03) Type 04 sensor mounting support (MS-PS-04) Type 05 sensor mounting support (MS-PS-05)

Product name	Type number	Type number
Sensor mounting bracket	MS-PS-04	Sensors can be mounted on the bottom or top side, or multiple sensors can be installed closely.
	MS-PS-05	The sensor can be mounted in the rear direction, or multiple sensors can be installed closely.
Panel mounting bracket	MS-PS-02	When used together, the sensor can be mounted on a panel with a thickness of 1 to 6mm, or multiple sensors can be installed closely.
	MS-PS-01	
Panel mounting bracket	MS-PS-03	Protect the adjusting surface of the sensor. (This protective cover can be installed when mounting the bracket using the panel.)

Installation Instructions

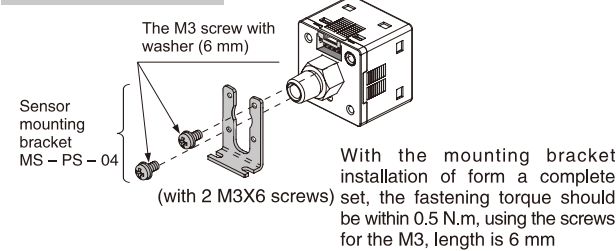


Bracket Size

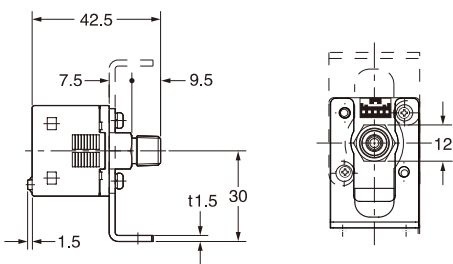


Bracket Installation (MS - PS - 04)

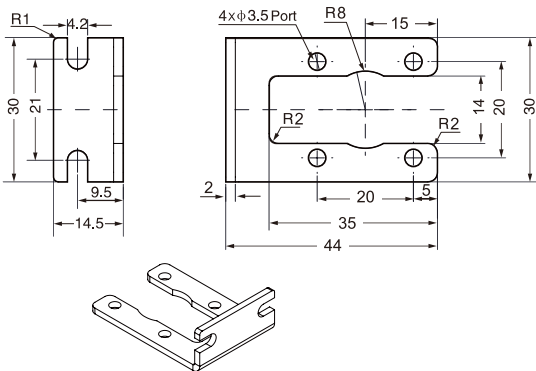
Installation instructions



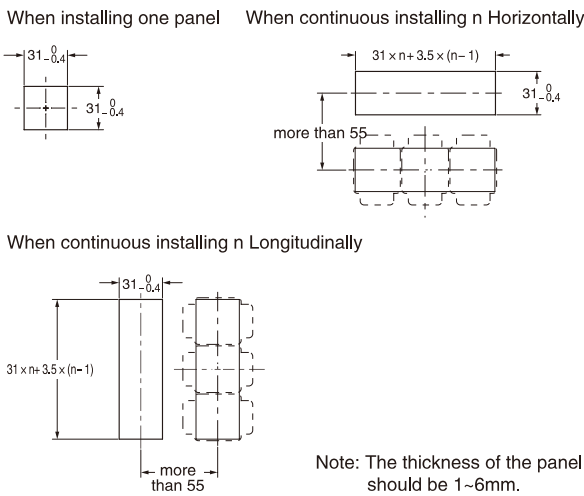
Installation effect



Bracket size

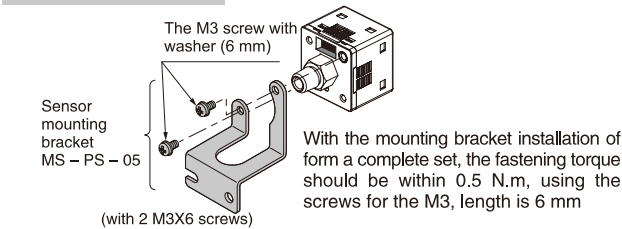


Panel Dimensions

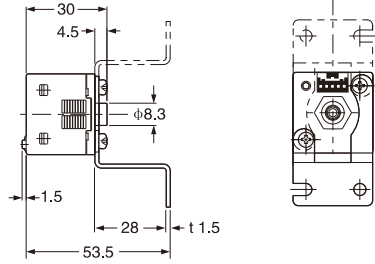


Bracket Installation (MS-PS-05)

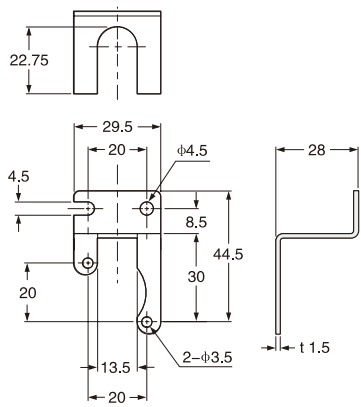
Installation instructions



Installation effect



Bracket size



PS43

Digital Display Pressure Switch (RS485)



Product Features

- **RS485 communication.**
- Product features;Use HD display, highlighting no ghosting.
- Using imported chip, higher stability.
- Ultra-thin design, easy to install.
- Three color digital intelligent LCD display, easy to distinguish.
- Copy the function, operation more convenient.
- Built-in four units, show more clearlyLash, show more intuitive.
- Picture in Picture,show more intuitive;Can be set up power saving mode.
- Key lock, non-professional personnel operation.
- Multiplexed output, can be individually controlled multiplexing equipment.
- Single-channel output current is 200 ma, can control large load.
- Built-in over current, short circuit protection function.
- Built-in automatic fault diagnosis and fault code alarm.

How to Order?

Installation Accessories: Sold Separately

Series No.	Pressure Type	Output type	Port Size
------------	---------------	-------------	-----------

PS43:
Standard Type

C: Continuous pressure (–100 Kpa–100 kpa)
P: Positive pressure (–0.1MPa–1.0MPa)
V: Negative pressure (–100kPa–0kPa)
M: micro pressure (–10kPa–10kPa)

01: PT1/8(M5)
06: NPT1/8(10–32UNF)
04: M5

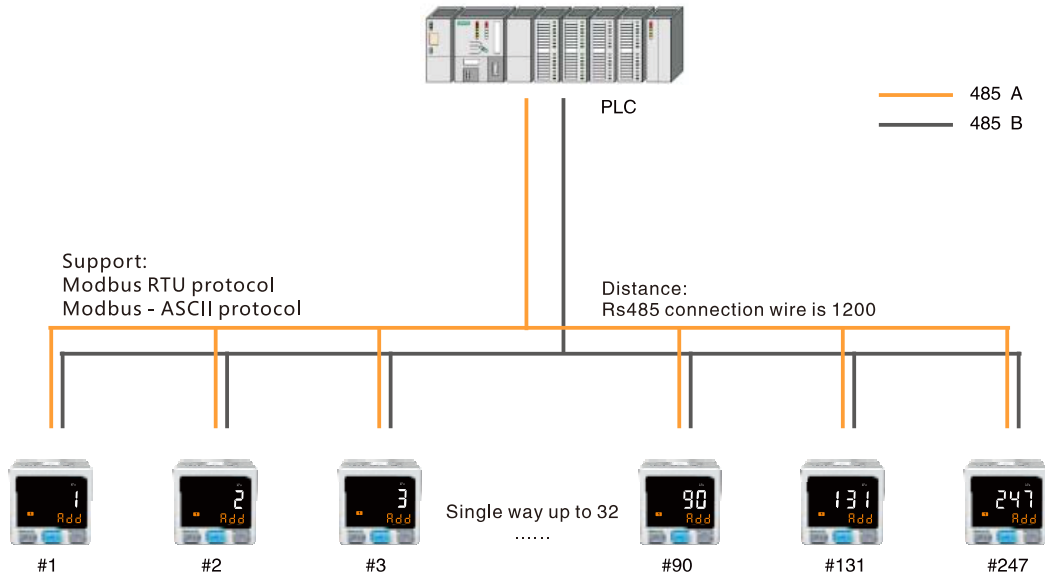
N: 1 way NPN output
NV: 1 channel NPN+1 channel analog voltage output (1–5V)
2N: 2 channel NPN output
2NV: 2 channel NPN+1 channel analog voltage output (1–5V)
NA: 1 channel NPN+1 channel analog current output (4–20mA)
P: 1 channel PNP output
PV: 1 channel PNP+1 channel analog voltage output (1–5V)
2P: 2 channel PNP output
2PV: 2 channels PNP+1 channel analog voltage output (1–5V)
PA: 1 channel PNP+1 channel analog current output (4–20mA)
NR: One NPN+RS485 communication
PR: 1 channel PNP+RS485 communication

Panel mounting bracket:	MS-PS43-01	PS43 special
Front cover:	MS-PS43-03	
L-shaped support:	MS-PS43-04	
Z-bracket:	MS-PS43-05	

Specifications

Models	Micropress	Continuous press	Positive pressure
Rated pressure range	–10~10KPa	–100~100kPa	–0.1~1.0MPa
Set pressure range	–10~10KPa	–103~103KPa	–0.103~1.03MPa
Resistance to pressure	30KPa	500KPa	1.5MPa
Protection class	IP40		
Display refresh rate	5 times per second		
Environment temperature	0~50℃		
Load current	≤200mA		
Internal voltage drop	≤1.0V		
Consumes current	≤40mA without load		
Linearity	±1F.s		
Weight	About 28g (without cable)		
Unit minimum scale value	KPa(0.01) mmHg(1) kgfa/cm²(0.01) bar(0.001) psi(0.01) inHg(0.1) MPa(0.001) kgfa/cm²(0.01) bar(0.01) psi(0.1)		
Shock resistance	The vibration amplitude is 1.5mm,10Hz–55Hz–10Hz per minute, 2 hours in each direction X, Y and Z		
RS485 communication distance	Connection for maximum distance <1200 m		
Color	3 colors (white, red, orange)		
Humidity	Action and preservation: 35~85%(no water dew)		
Wire specification	Oil resistant PVC Cable (0.15mm)		
Repeat accuracy	0.3%F.S Idigit		
Action indication	Orange OUT1		
Applicable gases	Air, non-storage, non-combustible (normal type)		
Storage temperature	Storage:–10℃~60℃ (without water dew and non-freezing state)		
Temperature characteristics	3%F.s comparison reference temperature 25℃(0–50℃ temperature range)		
Baud rate	9600bps,19200bps,38400bps,57600bps,115200bps		
Insulation resistance	50MΩ 以上 (DC 500V)(between the lead and the plastic case)		
Output voltage	0.6V–5V 2%FS(rated voltage)		
Display accuracy	%FS Idigit(temperature 25 3℃)		
Voltage resistance	AC1000V1 min (between lead and plastic case)		
Impact resistance	100m/s(10G)x, Y, Z 3 times in each direction		
Output type	Open collector output (NPN or PNP, up to 1 way output)		
Port size	PT1/8"+M5 NPT1/8"#10–32UNF M5		
Response time	≤2.5ms(25,100,250,500,1000,1500ms) can be set up		

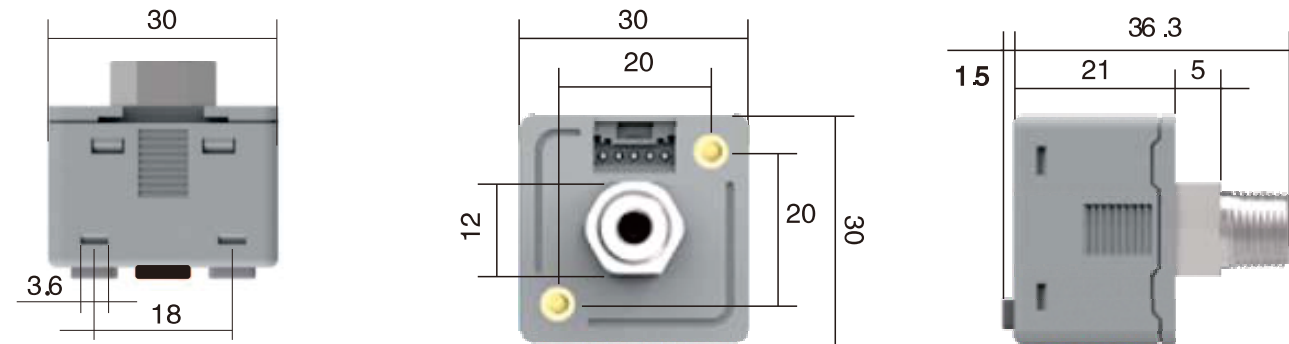
Connection Diagram



Panel Description



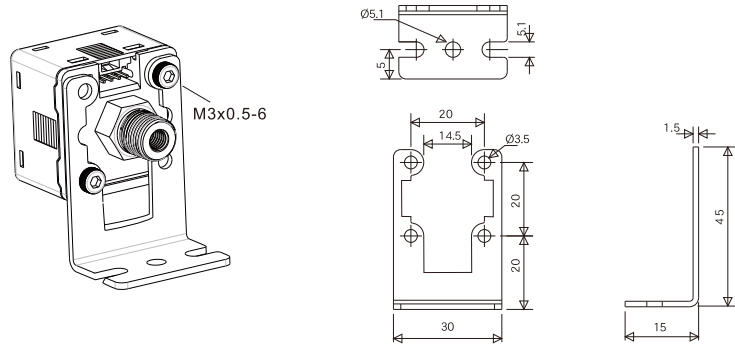
Main Dimensions



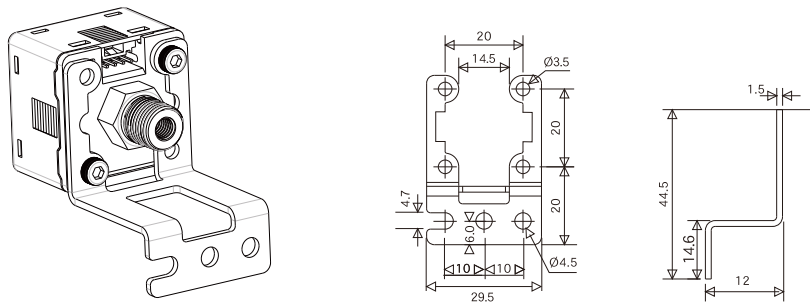
Optional Accessories

Fixing bracket installation mode

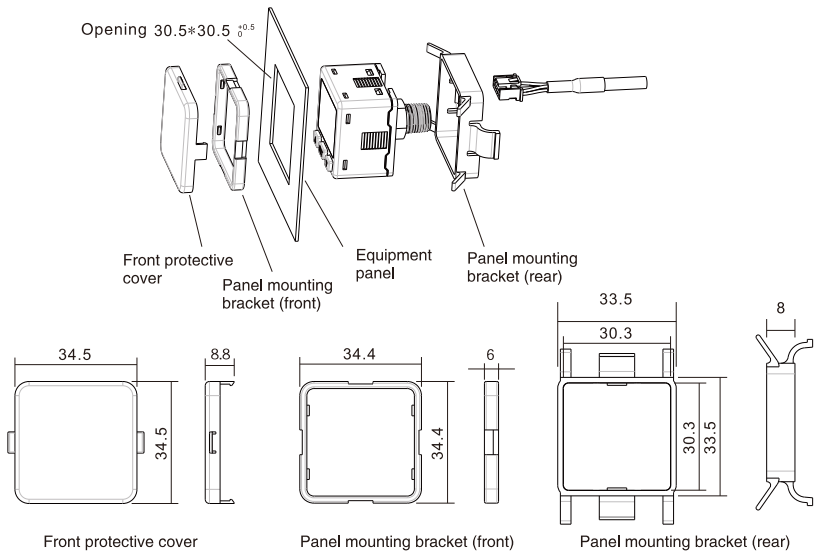
L-Bracket



Z-Bracket



Panel Installation



PS41

Waterproof Digital Display Pressure Switch



Product Features

- Waterproof housing design, protection class IP65;
- 2 way switching output, NPN/PNP adjustable;
- 7 kinds of pressure units can be converted;
- Support analog voltage or analog current;
- Dual screen, 3 color display (red, green, orange);
- "Current value" and "reference value" are displayed at the same time, and the reference value can be set directly;
- Compact size, easy to install;
- Digital display, easy to recognize;

How to Order?

Series No.	Pressure Type	Output Type	Port Size
PS41: Waterproof Type	P: Positive pressure (-0.1MPa~1.0MPa) C: Continuous pressure (-100kPa~100kPa)	2NPV: 2-way switching (NPN/PNP adjustable, factory default NPN) +1 analog voltage output (1~5V) 2NPA: 2-way switching (NPN/PNP adjustable, factory default NPN) +1 analog current output (4~20mA)	01: PT1/8(M5) 02: G1/8 (M5) Note: Connectors are made of copper

Installation Accessories: Sold Separately

Panel Installation bracket	MS-PS-01	PS41 CATEGORICAL
Front protective cover	MS-PS-02	
Front protective cover	MS-PS-03	
PS41-shaped bracket 1	MS-PS41-01	
PS41-shaped bracket 2	MS-PS41-02	

Product Profile

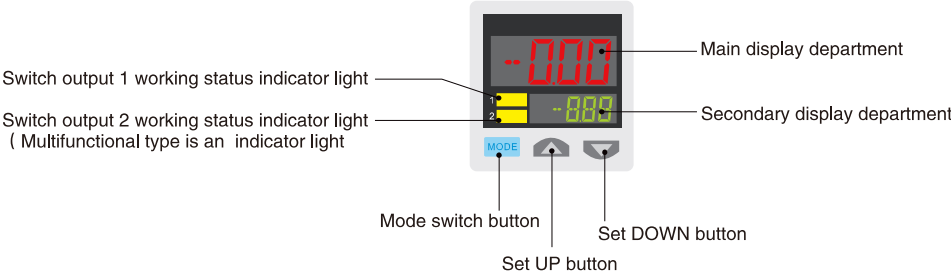
Style	Positive pressure	Continuous pressure
Type	PS41P	PS41C
1000kPa—		
100kPa—		
-100kPa—		
Rated pressure range	-0.1MPa~1.0MPa	-100kPa~100kPa
Set pressure range	-0.1MPa~1.0MPa	-100kPa~100kPa

Specifications

Models	Positive Pressure	Continuous Pressure
Type of pressure	Standard pressure	
Rated pressure range*	-0.1MPa~1.0MPa	-100kPa~100kPa
Set pressure range*	-0.1MPa~1.0MPa	-100kPa~100kPa
Pressure resistance	1.5MPa	500kPa
Applicable fluid	Non corrosive gas	
Supply voltage	12~24V DC ±5%	
Consumption current	24V 30mA Max	12V 60mA Max
Switch output	NPN O.C output:80mA/24VDCMax or PNP O.C output :80mA/24VDC	
Repetitive accuracy	±0.2%F.S. ±1 digit	±0.5%F.S. ±1 digit
Reaction time	Select through key operation:2.5ms,5ms,10ms,25ms,50ms,100ms,250ms,500ms,1000ms,5000ms	
Analog output	Voltage output	0.6V~5V (or slightly lower) Linearity: ± 1%F.S. Output impedance: 1K Ω
	Current output	2.4mA~20mA(or slightly lower) Linearity: ± 1%F.S. Maximum load impedance, when the supply voltage is 12V :300 Ω; 24V power supply: 600 Ω minimum load impedance :50 Ω
Range of temperature	Working temperature :0~50℃ Storage temperature : -10~60℃(no condensation, no icing)	
Range of humidity	35~85%RH	
Temperature characteristics	± 3%F.S. (25℃)	
Protection level	IP65	
Material	Outer shell: Nylon + glass fiber	Keys: Silicone rubber Seal ring: H-NBR
	Pressure port: External thread POM+ inlaid N5 copper	LCD display: Propylene
Overall dimensions	30 x 30 x 27.2mm(plastic part) / 30 x 30 x 42.6mm (including connectors)	
Weight	Appro 115g (barometer body + user interface connector)	

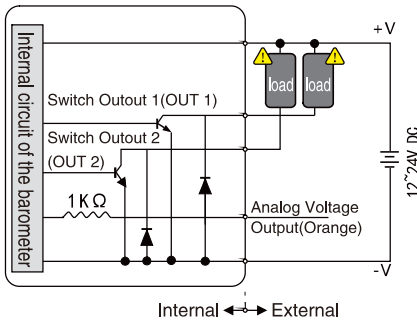
※1: Note: Due to the influence of temperature and linear compensation, there may be slight fluctuation near the upper/lower range of the barometer, which is positivePanel description
※2: Factory default NPN output.

Panel Description

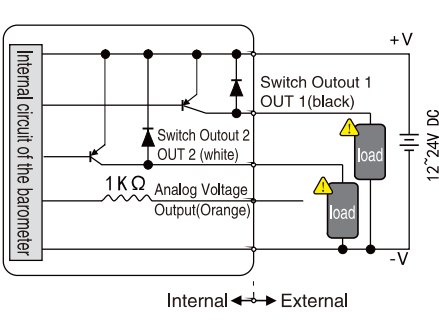


Circuit diagrams and wiring diagrams

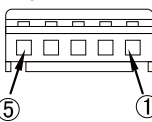
Outout type PNP



Outout type PNP



Terminal arrangement diagram



Connector Pin NO	Terminal name
① Brown	+V
② Black	OUT1
③ White	OUT2
④ Orange	Analog Output
⑤ Blue	0V

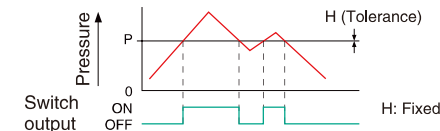


Please be sure to pay attention!
Be sure to connect the load in series before use,
other wise it will cause the air pressure gauge to burn out!

Input Mode and Output Mode

① EASY mode

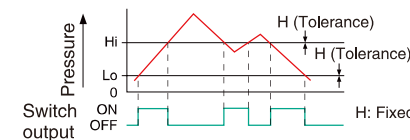
Mode for switch output ON/OFF control



(Note 1): The stress can be fixed at level 8.
(Note 2): The auxiliary display unit displays "P-1" when the switch outputs 1
Displayed "P-2" when switching output 2

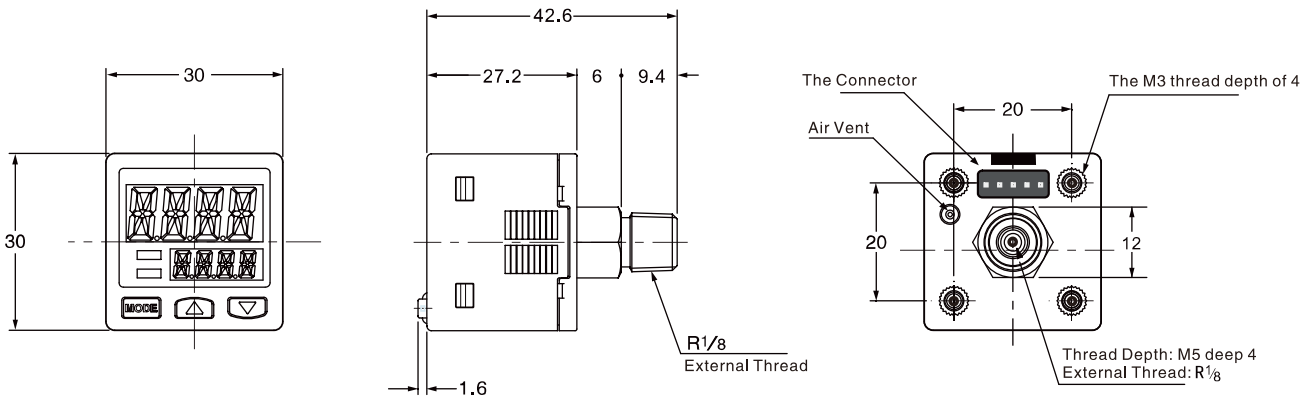
③ Window comparison mode

Set the switch to ON or OFF mode according to the pressure within the set range



(Note 1): The stress can be fixed at level 8.
(Note 2): The auxiliary display unit displays "Hi-1" and "Lo-1" when the switch outputs 1
Displayed "Hi-2" and "Lo-2" when switching output 2

Dimensional

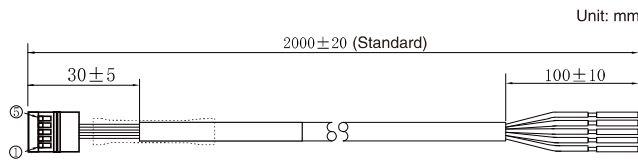
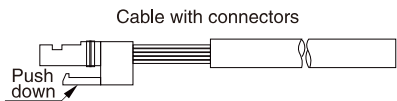


Accessories

Cables



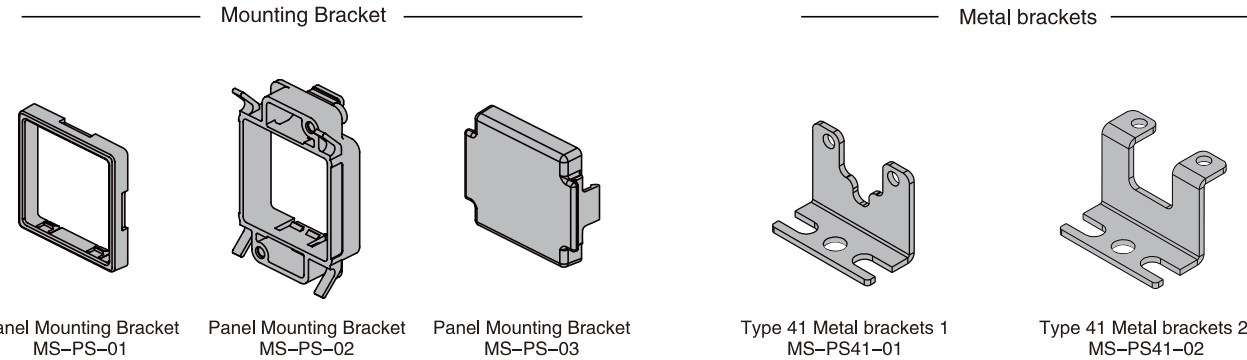
Please use the connecting cable with plug provided in the accessories.



Plugging and unplugging

- To insert the plug, grasp the lever and the plug body with your hand and insert it straight into the socket, then press the jaws of the lever into the groove of the housing to lock it in place.
- To pull out the plug, press the lever down with your thumb and pull the jaws straight out of the groove.

Mounting bracket (sold separately)



Panel Mounting Bracket MS-PS-01

Panel Mounting Bracket MS-PS-02

Panel Mounting Bracket MS-PS-03

Type 41 Metal brackets 1 MS-PS41-01

Type 41 Metal brackets 2 MS-PS41-02

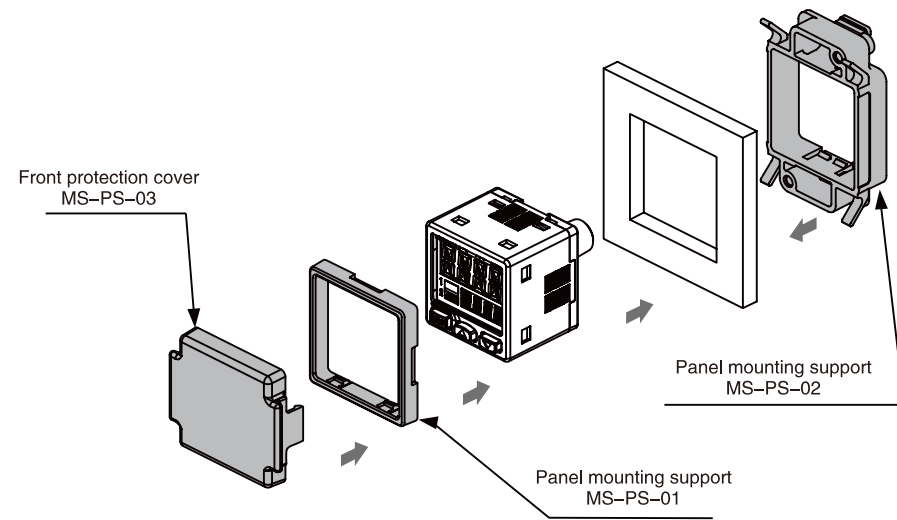
Used in conjunction with both, the sensor can be mounted on a panel with a thickness of 1~6mm, or multiple sensors can be mounted close together.

Protects the adjustment surface of the sensor.

Sensors can be mounted in the bottom or top direction, or multiple sensors can be mounted in close proximity.

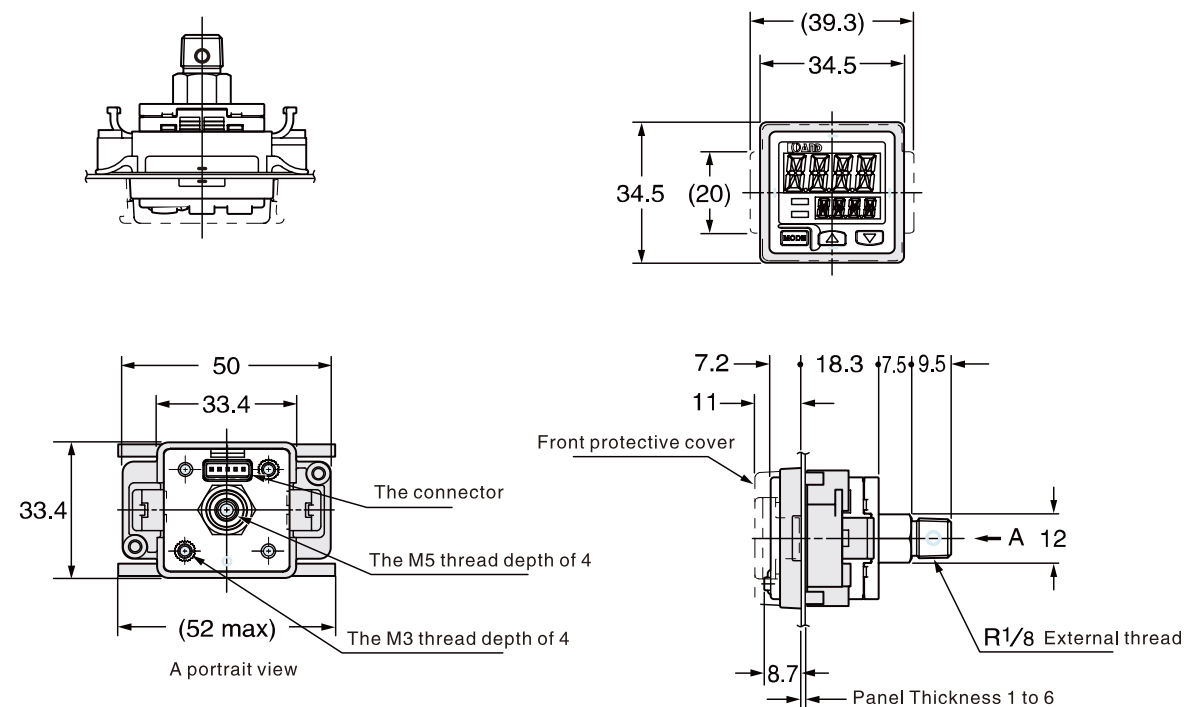
Sensors can be mounted in the back direction or in close proximity to each other.

Insyallation Instruction



Panel Mount Bracket, Front Protective Cover

Mounting effect and bracket size

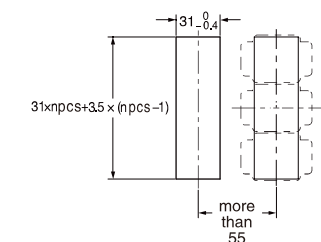
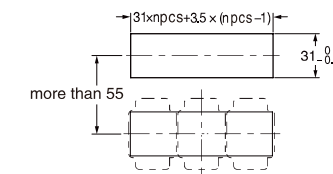
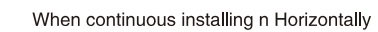
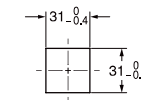


Material:
POM panel mounting support
Polycarbonate (front protection cover)

Panel Mount Bracket, Front Protective Cover

Panel processing size

Note: The thickness of the panel should be 1~6mm.



© Mounting Bracket

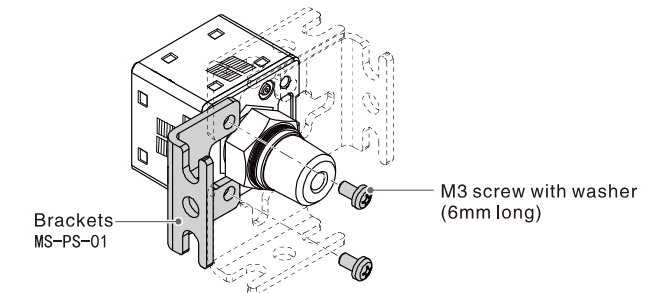
Sensor Mounting Bracket

- Use the optional special bracket or panel mount connector for mounting.
- When using the unit in a place where water, dust, etc. may adhere to the body, insert the separately sold hose into the atmospheric opening and connect the hose to a place free of water and dust.

Mounting method of the bracket:

Please use the mounting screws to mount the bracket to the body.

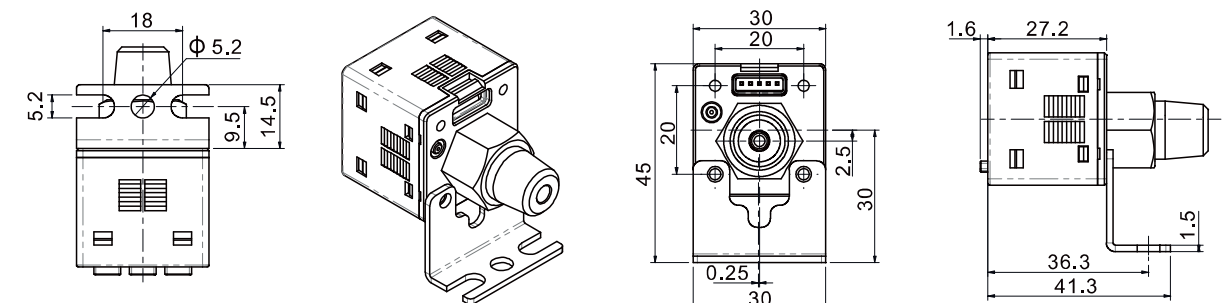
※: The tightening torque of the bracket mounting screws is $\leq 0.5\text{N.m}$.



Note: The bracket is an optional accessory and must be ordered separately.

Bracket mounting dimensions

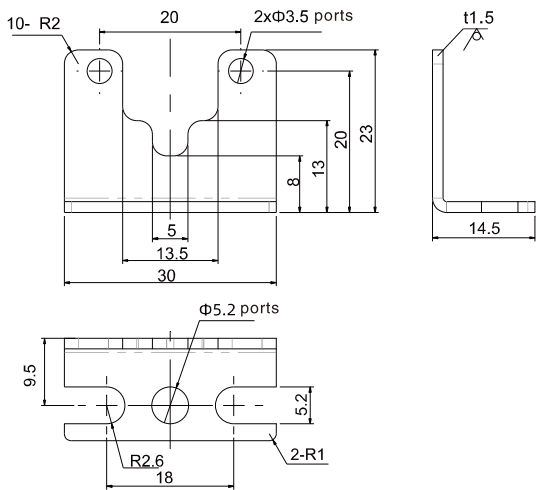
Bracket Model: MS-PS41-01



Mounting Bracket

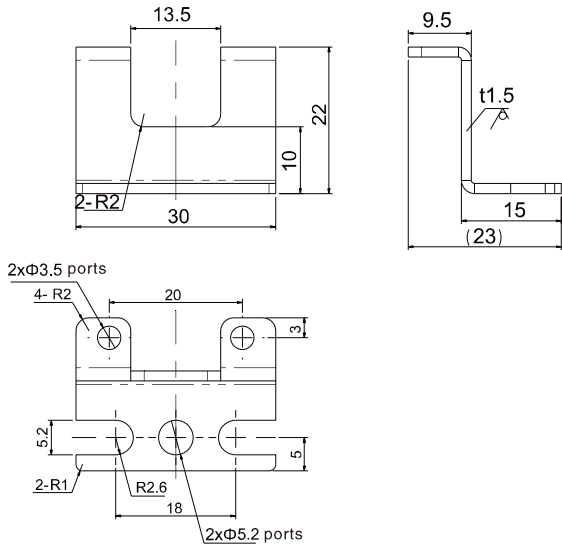
Sensor Mounting Bracket Dimensions

Bracket Model: MS-PS41-01



Bracket size

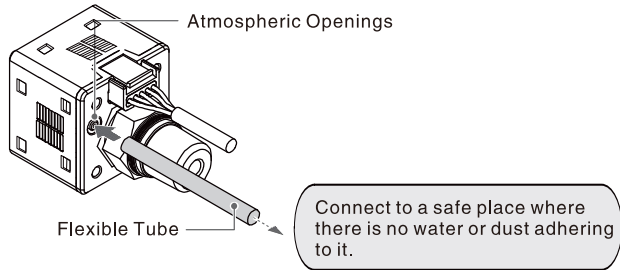
Bracket Model: MS-PS41-02



Hose installation

- If the switch's atmospheric vent may become clogged with water, dust, etc., use a separately sold hose inserted into the atmospheric opening up to the bottom, with the other end connected to a location free of water and dust. (Refer to the figure on the right.)

※:Please Verify that the hose is inserted into the atmospheric opening up to the bottom.



PS80

Digital Display Pressure Switch



Product Features

- Products can be used in SUS316 no corrosive fluid environment
- Induction and over stainless steel 316L
- Waterproof design, protection grade IP65
- Using imported chip, higher stability
- Intelligent LED display, easy to distinguish
- Large font display, clearly visible
- Built-in switching multiple units
- Can be set up power saving mode
- Key lock, operation by professional staff excluded
- Multiplexed output operation, Control multiple devices separately
- Single-channel output current is 200 mA, can control large load
- Built-in over current, short circuit protection function
- Built-in automatic fault diagnosis and fault code alarm

How to Order?

Series No.	Pressure Type	Output Type	Port Size
PS80: anti-corrosion type	C: connect pressure (- 103 kpa to 103 kpa) P: positive pressure (0.1 MPa to 1.0 MPa) H: high pressure (0.1 MPa to 2.0 MPa)	N: 1 way NPN output 2N: 2 channel NPN output 2NV: 2 channel NPN+1 channel analog voltage output (1-5V) 2NA: 2 channel NPN+1 channel analog voltage output (4-20mA) P: 1 channel PNP output 2P: 2 channel PNP output 2PV: 2 channels PNP+1 channel analog voltage output (1-5V)PA: 1 channel PNP+1 channel analog current output (1-5V) 2PA: 2 channels PNP+1 channel analog voltage output (1-5V)PA: 1 channel PNP+1 channel analog current output (4-20mA) NR: 1 channel NPN+RS485 communication PR: 1 channel PNP+RS485 communication	07: PT1/8 (Internal Thread) 08: VCR1/4 09: PT1/4 (M5) 10: 1/4 (Bite type fitting)

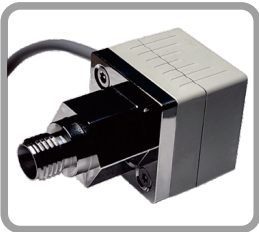
Product Display



PT1/8 (The internal thread fitting)



VCR1/4 (End face seal fitting)

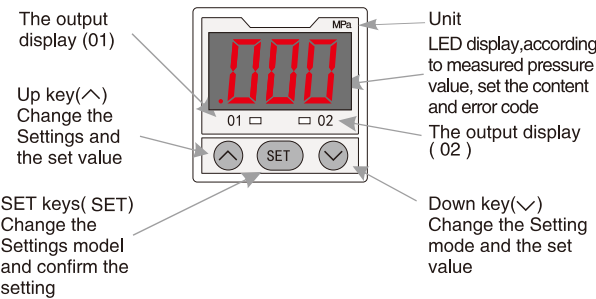


1/4 (Bite type fitting)

Installation Accessories (Sold Separately)

Panel Installation bracket:	MS-PS80-01	PS80
L-shaped bracket:	MS-PS80-04	special

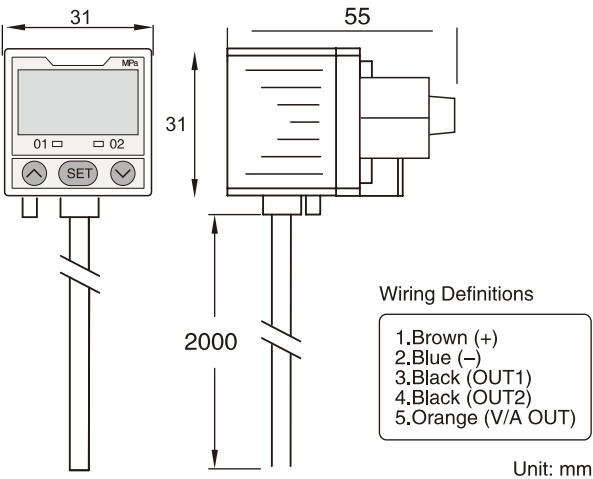
Panel Description



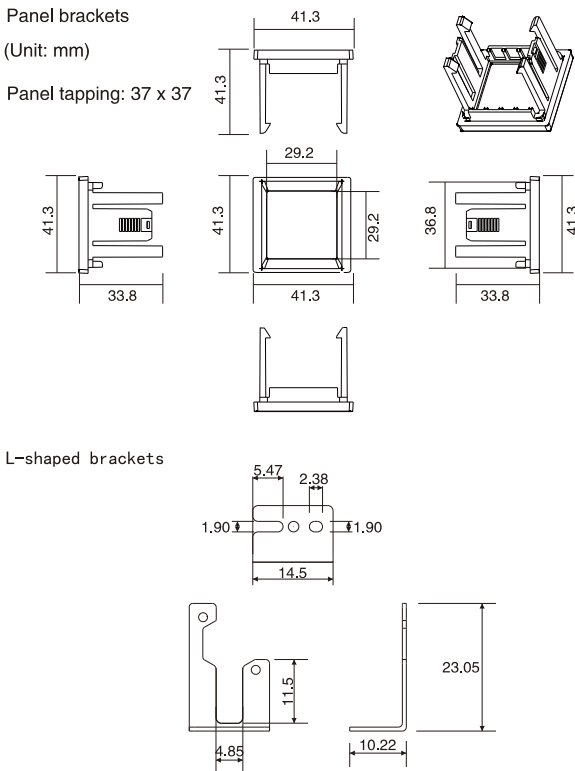
Specifications

Models		High pressure	Positive pressure	Continuous pressure
Rated pressure range		0.1~2.0MPa	-0.1~1.0MPa	0~1.0kPa
Set pressure range		-0.103~2.03MPa	-0.103~1.03MPa	-103~103kPa
Pressure resistance		3.0MPa	1.5MPa	300kPa
Applicable fluid		Non-corrosive fluid to SUS316, SUS304		
Supply voltage		less than 10% DC12~24V ± 10% Ripple peak value		
Current consumption		≤40mA when not loaded		
Minimum scale value of pressure unit	kPa	-	-	0.1
	MPa	0.001	0.001	-
	kgfa/cm2	0.01	0.01	0.001
	bar	0.01	0.01	0.001
	psi	0.1	0.1	0.01
	inHg	-	-	0.1
	mmHg	-	-	1
Switching output	Output type	Open collector output (NPN or PNP, up to 2 outputs)		
	Load current	Max 200mA		
	Internal voltage drop	1.0V		
	Response time	<2.5ms(can be set 25, 100, 250, 500, 1000, 1500ms)		
Linear voltage output	Output voltage	0.6V~5V ± 2.5%F.S	1V~5V ± 2.5%F.S(within rated voltage)	
	Output impedance	Approx 1 KΩ		
	Linearity	± 1%F.S		
Linear current output	Current output	4~20mA(± 2.5%F.S)(Impedance: DC12V maximum impedance 250 Ω DC24 maximum impedance 600 Ω)		
Display	Color \ Speed	Red (Display refresh rate: 5 times/SEC)		
	Display accuracy	± 1%F.S ± 1 digit(temperature 25 ± 3 ° C)		
Hysteresis	Repeat accuracy	± 0.3%F.S ± 1 digit		
	Action Indication	OUT1 OUT2		
	Single point mode	1~8 adjustable		
	Window Mode	None		
Environment	Hysteresis Mode	IP65		
	Protection Class	0~ 50℃		
	Temperature around	Storage: -10℃~60℃(no water dew and no freezing state)		
	Storage Temperature	± 3%F.S comparison reference temperature 25℃(0~50℃ temperature range)		
	Temperature Characteristics	Action and storage :35~85%K dewless)		
	Humidity around	AC 1000V 1 min (between leads and plastic housing)		
	Voltage resistance	More than 50M2 (DC 500V)(between the lead and the plastic housing)		
	Insulation resistance	Vibration amplitude 1.5mm,10Hz~55Hz~10Hz per minute, X, Y, Z each direction 2 hours		
	Shock resistance	100m/s(10G)X, Y, Z 3 times in each direction		
	Impact resistance	07: PT1/8(internal thread) 08: VCR1/4 09: PT1/4(M5) 10: 1/4(jacking type connector)		
Port size	Oil resistant PVC cable (0.2mm)			
Wire specifications		Approx 270g (including 2 meters of cable)		
Weight				

Product Size



Optional Accessories



IO-Link Pressure Switch



Product Features

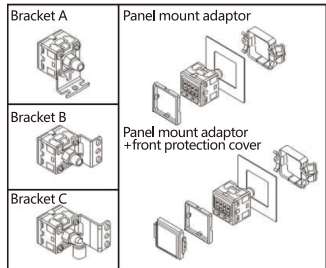
1. IO-Link V1.1 communication interface and COM2 communication rate are supported.
2. Dual switch output, support NPN, PNP and push-pull output mode.
3. Data batch menu setting is supported, convenient for parameter setting.
4. Save wiring and reduce long-distance installation costs.
5. Support traditional pressure switch, Basic, hysteresis and window comparison functions, response time < 3ms.
6. Different overcurrent values (50mA to 250mA) can be set.
7. Dual interface, red/green display process value.
8. Support hot swap, data parameters are stored in the IO-Link master station, no need to reconfigure parameters to replace the pressure switch. The newly replaced pressure switch is automatically recognized and put into work immediately, which can reduce equipment downtime and maintenance costs, and improve production efficiency.
9. IO-Link protocol is independent of Fieldbus, has strong industrial network compatibility, supports mainstream Fieldbus and industrial Ethernet;
10. The pressure value can be read without an external analog module, and the communication is completely digitally transmitted. Reducing the loss of analog-to-digital conversion accuracy, with strong anti-interference ability, and the max transmission distance is 20 meters.

How to Order?

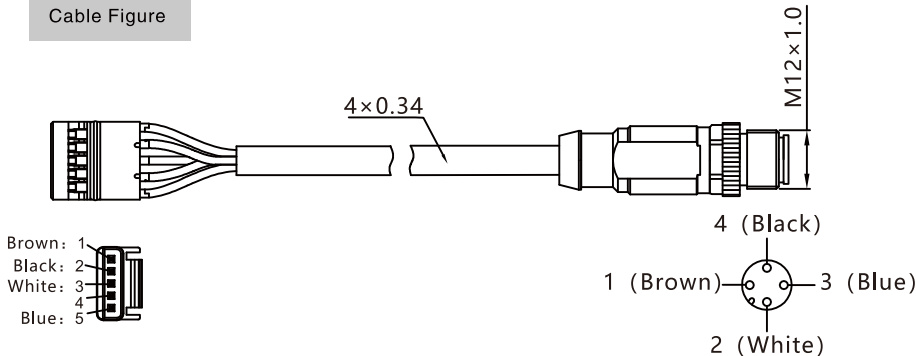
Pressure Type	Output Type	Port Size	Lead Wire
NISE20B: -0.1~1MPa (Positive pressure) NZSE20BF: -100~100KPa (Compound pressure)	LK:IO-Link / Switch 1 output+Switch 2 output(When switching output, NPN, PNP and push-pull output modes are supported.)	01:PT1/8+M5 02:G1/8+M5 03:NPT1/8+M5	Blank: Lead wire with M12 connector 0.3M 2M: Lead wire with M12 connector 2M 5M: Lead wire with M12 connector 5M (Other lengths can be customized)

How To Order (For Accessories)

Name	Model	Description
Bracket A	NZS-38-A1	Mounting bracket with 2 mounting screw (M3X5L)
Bracket B	NZS-38-A2	
Bracket C	NZS-38-A3	
Panel1	NZS-27-C	Panel mount adaptor with 2 mounting screw (M3X8L)
Panel2	NZS-27-D	Panel mount adaptor+Front protection cover with 2 mounting screw (M3X8L)
Lead Wire	NZS-20-2M	Lead wire with M12 connector 2M, straight, 4 Core
	NZS-20-5M	Lead wire with M12 connector 2M, straight, 4 Core



Cable Figure

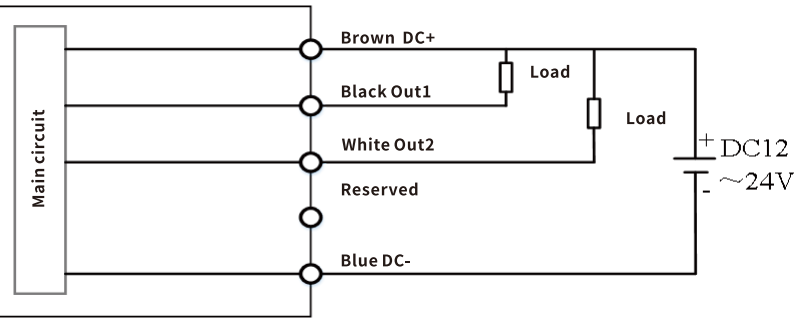


Specification

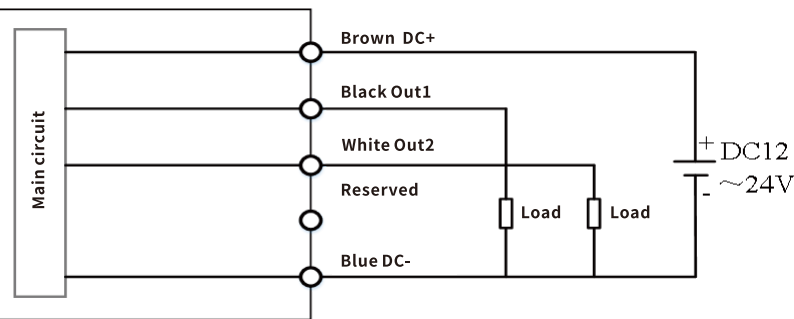
Model	NZSE20BF (Compound Pressure)	NISE20B (Positive Pressure)
Rated Pressure Range	-100.0~100.0KPa	0.000~1.000MPa
Set Pressure Range	-101.0~101.0KPa	-0.100~1.000MPa
Smallest Settable Increment	0.1KPa	0.001MPa
Withstand Pressure	200kPa	1.5MPa
Unit	kPa, kgf/cm ² , bar, psi, inHg, mmHg	MPa, kgf/cm ² , bar, psi
Fluid	Air, Non-corrosive gas, Non-flammable gas	
Power Supply Voltage	When Used As A Switch Output Device When Used As An IO-Link Device	12~24VDC ± 10% without isolation 18~30VDC ± 10%
Current Consumption	≤40mA (no load)	
Response Time	<3ms (Malfunction prevention function: 2.5, 25, 100, 250, 500, 1000, 1500ms optional)	
Switch output (SIO mode)	Output Type	NPN open collector, PNP open collector, PP push-pull output mode can be selected
	Output Mode	Basic Mode, Hysteresis Mode, Window Comparator Mode
	Switch Operation	N.O./N.C.
	Max. Load Current	125mA
	Max. Applied Voltage	30VDC (NPN output)
Output Short Circuit Protection	Internal Voltage Drop	≤1.5V
	Yes	Yes
	Display Accuracy	2%F.S. ± 1digit (Ambient temperature of 25 ± 3° C)
Repeatability	± 0.2%F.S. ± 1digit	
Action Indicator	Lights up when switch output is turned ON(OUT1, OUT2:Orange)	
Display	4 digits, 7 segments LCD display (red/green/orange) (sampling rate: 5 times/sec)	
Environmental Resistance	Enclosure	IP40
	Withstand Voltage	AC1000V 1 minute (charging part and shelling)
	Insulation Resistance	≥ 50MΩ (500VDC, between the charging part and the shell)
	Operating Temperature Range	-10~+50° C, storage environment -10~+60° C (without dew and freezing)
Communication Specifications (IO-Link Port Type mode)	Operating Humidity Range	35~85%RH (under the condition of no water and no freezing)
	IO-Link Type	Equipment
	IO-Link Version	V1.1
	Communication Speed	COM2(38.4kbps)
	Configuration File	IODD file
	Port Type	Class A
	Minimum Cycle Time	2.5ms
	Process Data Length	Input data: 4Byte, output data: 0Byte
	Vendor ID	1084 (0x043C)

Output Wiring Diagram

NPN Open Collector 1 and 2 Outputs:

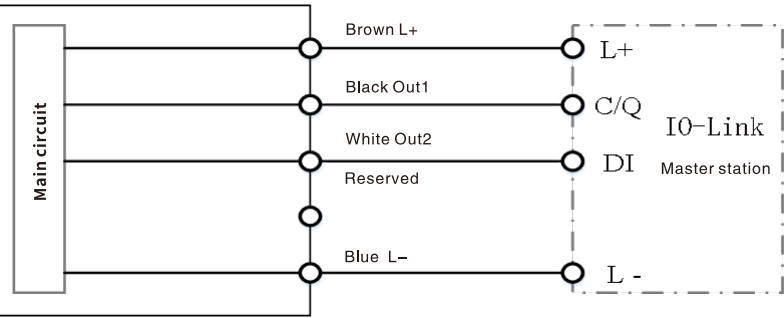


PNP Open Collector 1 and 2 Outputs:



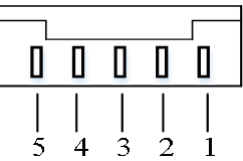
Output Wiring Diagram

When Used As An IO-Link Device:



Note: When the pressure switch is used as a common sensor, the C/Q output terminal is the same as the DO output terminal as a switching value output.

Terminal Arrangement Diagram

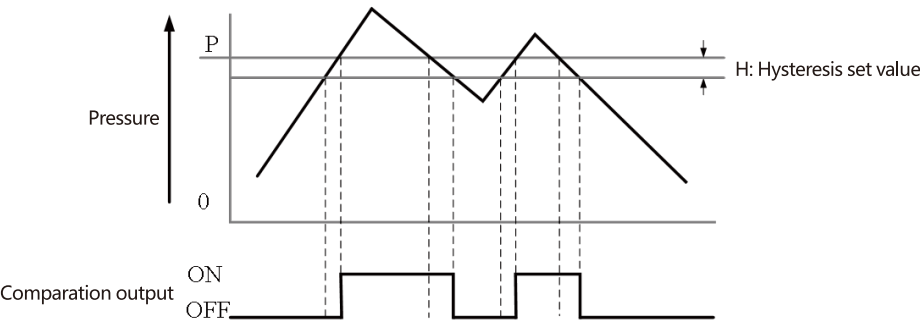


Terminal name	Terminal Definition
1	24V+(Brown)
2	SwitchoutputOUT1orIO-Link(C/QLine)(Black)
3	SwitchoutputOUT2/D0signal(White)
4	Reserve
5	0V(Blue)

Output Mode

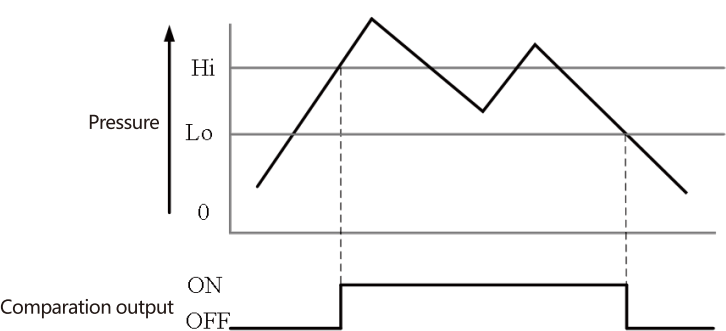
① Basic Mode

When the pressure is large than (P) value, the output is ON. When the pressure is less than the (P) value, the output is OFF.



② Hysteresis Mode

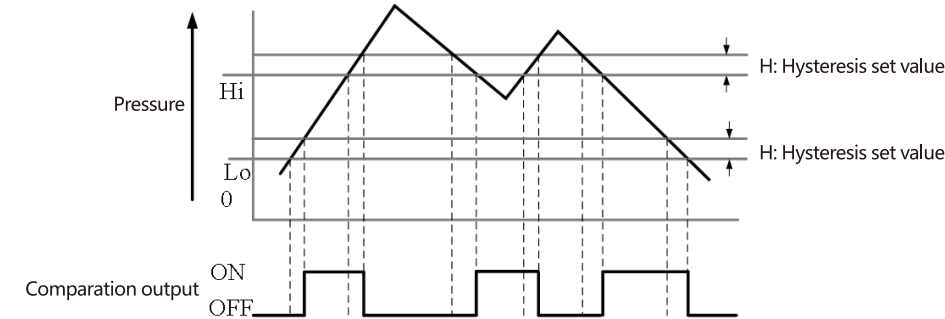
When the pressure is large than Hi value, the output is ON. When the pressure is less than the Lo value, the output is OFF.



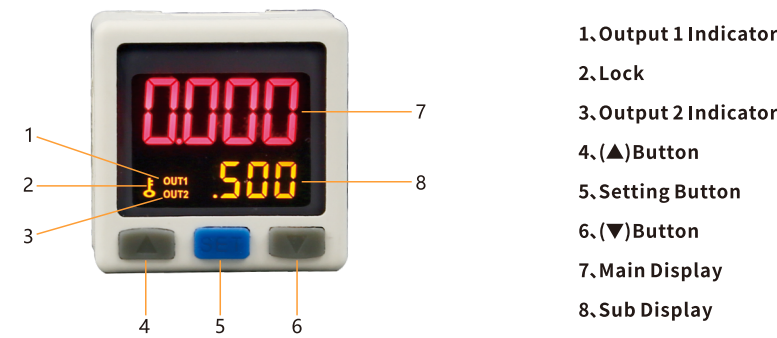
Output Mode

Window Comparator Mode

When the pressure large than value 'Hi' or less than value 'Lo' , the output is 'OFF'.When pressure large than value 'Lo' and less than value 'Hi', the output is 'ON'.



Panel Description

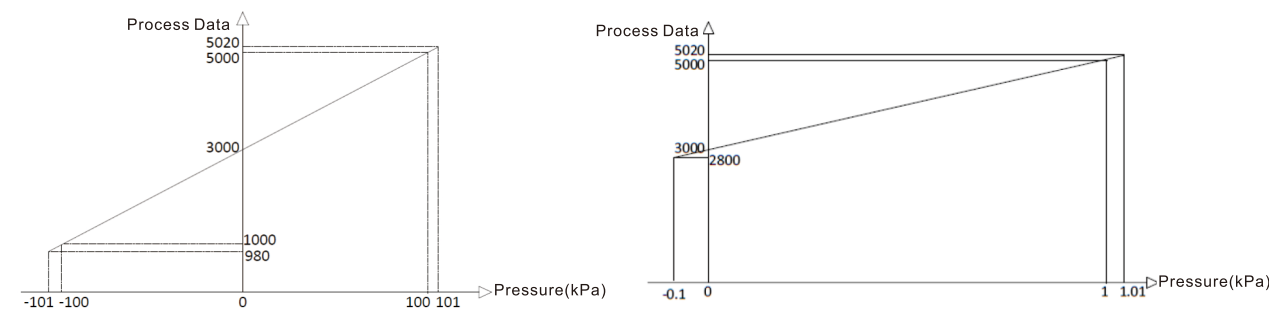


IO-Link: Process Data

Relationship between the process data and pressure value

NZSE20BF (Compound Pressure)

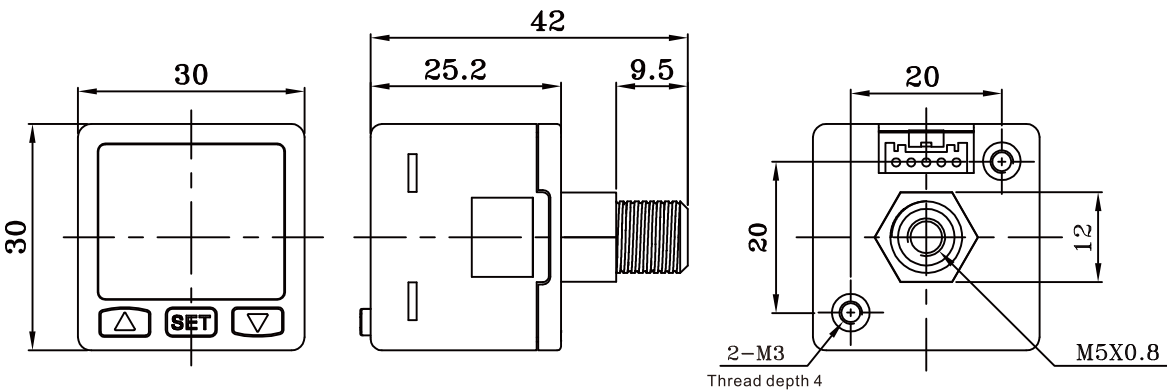
NISE20B (Postive Presure)



Function

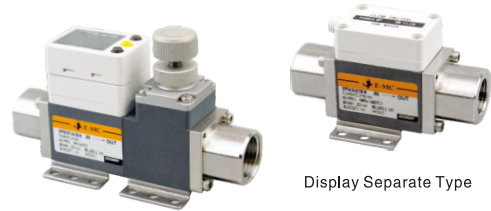
Display value fine adjustment function.	Evens out deviations in the displayed value.
Power saving mode	Reduces power consumption.
Key-lock function	The keyboard can be locked to prevent the accidental operation of the operation switch.
Zero-clear function	The pressure display can be set to zero when the pressure is open to the atmosphere.
Maximum /minimum value indication function	Can record maximum or minimum output pressure valve.
Units selection function	Can convert the display value.

Main Dimension



EPF

Digital Flow Switch for Water



Display One-piece Type

Display Separate Type

Product Features

- Excellent repeatability, high precision; Low pressure loss, pollution resistance; Vortex street measurement principle.
- Suitable for fluids: water and glycol;
- Detection method: Karman vortex street type;
- Use pressure range: 0~1.0MPa;
- Pressure loss (without flow adjusting valve): the maximum flow rate is less than 45kPa;
- The display can be rotated: clockwise90° , counterclockwise 225° ;
- The flow rate can be adjusted.

How to order

Series.No	Type	Rated Flow Range	Flow Adjustment Valve	Piping Diameter	Output Specifications	Temperature Sensor	Wire	Bracket	Thread Type																																																																																																																																																	
EPF	5: Display separation type 7: Display monotype	04: 0.5~4 L/min 20: 2~16 L/min 40: 5~40 L/min 11: 10~100 L/min 21: 50~250 L/min	<table><tr><td colspan="2">The presence or absence of a flow control valve</td><td>04</td><td>20</td><td>40</td><td>11</td><td>21</td></tr><tr><td>NO</td><td>Without Flow Control Valve</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr><tr><td>S</td><td>With Flow Control Valve</td><td>●</td><td>●</td><td>●</td><td>/</td><td>/</td></tr></table>	The presence or absence of a flow control valve		04	20	40	11	21	NO	Without Flow Control Valve	●	●	●	●	●	S	With Flow Control Valve	●	●	●	/	/	<table><tr><td></td><td>size</td><td>04</td><td>20</td><td>40</td><td>11</td><td>21</td></tr><tr><td>03</td><td>3/8"</td><td>●</td><td>●</td><td>/</td><td>/</td><td>/</td></tr><tr><td>04</td><td>1/2"</td><td>/</td><td>●</td><td>●</td><td>/</td><td>/</td></tr><tr><td>06</td><td>3/4"</td><td>/</td><td>/</td><td>●</td><td>●</td><td>/</td></tr><tr><td>10</td><td>1 1/4"</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td></tr><tr><td>12</td><td>1 1/4"</td><td>/</td><td>/</td><td>/</td><td>/</td><td>●</td></tr><tr><td>14</td><td>1 1/2"</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td></tr></table>		size	04	20	40	11	21	03	3/8"	●	●	/	/	/	04	1/2"	/	●	●	/	/	06	3/4"	/	/	●	●	/	10	1 1/4"	/	/	/	/	/	12	1 1/4"	/	/	/	/	●	14	1 1/2"	/	/	/	/	/	<table><tr><td>Type</td><td>OUT1</td><td>OUT2</td><td>Temperature Sensor</td></tr><tr><td>1</td><td>Flow Rate</td><td>Flow/Temperature</td><td></td></tr><tr><td>2</td><td>Analog 1-5V</td><td>/</td><td>NO</td></tr><tr><td>1W</td><td>Analog 4-20mA</td><td>/</td><td></td></tr><tr><td>2W</td><td>Analog 1-5V</td><td>Analog 1-5V</td><td>YES</td></tr><tr><td></td><td>Analog 4-20mA</td><td>Analog 4-20mA</td><td></td></tr><tr><td>Type</td><td>OUT1</td><td>OUT2</td><td>Temperature Sensor</td></tr><tr><td>C</td><td>Flow Rate</td><td>Flow/Temperature</td><td></td></tr><tr><td>D</td><td>PNP</td><td>Analog 4-20mA / -</td><td></td></tr><tr><td>E</td><td>NPN</td><td>NPN / -</td><td>NO</td></tr><tr><td>F</td><td>PNP</td><td>PNP / -</td><td></td></tr><tr><td>T/Display</td><td>NPN</td><td>Analog 4-20mA / -</td><td></td></tr><tr><td>One-piece</td><td>PNP</td><td>Analog 1-5V/ Analog 1-5V</td><td></td></tr><tr><td>CW</td><td>PNP</td><td>PNP / NPN</td><td></td></tr><tr><td>DW</td><td>NPN</td><td>NPN / NPN</td><td></td></tr><tr><td>EW</td><td>PNP</td><td>PNP / PNP</td><td>YES</td></tr><tr><td>FW</td><td>NPN</td><td>Analog 1-5V/ Analog 1-5V</td><td></td></tr><tr><td>GW</td><td>NPN</td><td>Analog 4-20mA/ Analog 4-20mA</td><td></td></tr><tr><td>HW</td><td>Analog 4-20mA</td><td>Analog 4-20mA</td><td></td></tr></table>	Type	OUT1	OUT2	Temperature Sensor	1	Flow Rate	Flow/Temperature		2	Analog 1-5V	/	NO	1W	Analog 4-20mA	/		2W	Analog 1-5V	Analog 1-5V	YES		Analog 4-20mA	Analog 4-20mA		Type	OUT1	OUT2	Temperature Sensor	C	Flow Rate	Flow/Temperature		D	PNP	Analog 4-20mA / -		E	NPN	NPN / -	NO	F	PNP	PNP / -		T/Display	NPN	Analog 4-20mA / -		One-piece	PNP	Analog 1-5V/ Analog 1-5V		CW	PNP	PNP / NPN		DW	NPN	NPN / NPN		EW	PNP	PNP / PNP	YES	FW	NPN	Analog 1-5V/ Analog 1-5V		GW	NPN	Analog 4-20mA/ Analog 4-20mA		HW	Analog 4-20mA	Analog 4-20mA		None: M8 plug has no cable L: Lead with M8 plug (3m)	None: Thread P: PT Thread T: NPT Thread	None: No horizontal mounting bracket by default L: With horizontal mounting bracket
The presence or absence of a flow control valve		04	20	40	11	21																																																																																																																																																				
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HW	Analog 4-20mA	Analog 4-20mA																																																																																																																																																								

Order Example: EPF water digital flow switch, separate sensor part, rated flow range: 2~16L/min, with flow adjustment valve, caliber :1/2" , output specification With temperature sensor, NPT thread. The ERP code is EPF520-S041W-T

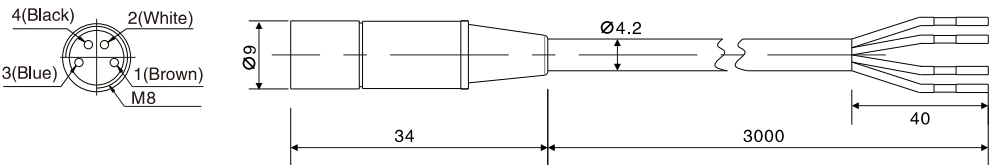
Specifications (Separation type)

Type	EPF504	EPF520	EPF540	EPF511	EPF521
Suitable fluid	Water and glycol solution				
Detection mode	Karman Vortex Street style				
Rated flow range	0.5~4 L/min	2~16 L/min	2~16 L/min	10~100 L/min	50~250 L/min
Operating fluid temperature	0~90°C (unfrozen/uncondensation)				
Precision	± 3%F.S.				
Repeatability	± 2%F.S.				
Temperature characteristic	± 5%F.S.(25°C basis)				
Service pressure range	0~1 MPa				
Withstand pressure test pressure	1.5 MPa				
Pressure loss (without flow regulating valve)	The maximum flow rate is below 45kPa				The maximum flow rate is below 60kPa
Response time	1 S				
Voltage	Output voltage: 1~5 V Output impedance: 1 KΩ				
Output Current	Output current:4~20 mA Maximum load impedance: DC12 V时300 Ω 、 DC24 V时600 Ω				
Output action indicator Power	Power supply confirmation, flow indication (corresponding flow, the speed of the lamp flashing changes), other error display				
Supply voltage	DC 12~24 V ± 10%				
Current consumption	Below 30 mA				
Protection structure	Ip65				
Operating temperature range	0~50°C(not frozen, not dew)				
Operating humidity range	During operation and storage : 35~85%R.H.(no condensation)				
Withstand voltage	AC1000V 1 min charging part together with housing				
Insulation resistance	More than 50M Ω (DC500V megohm meter) charging part together with the bright body				
Certification, standards, etc	CE marking (EMC Directive)				
Contact liquid material	PPS、 SUS304				
	No grease specifications				

Product specifications (Show a body type)

Model number	EPF704	EPF720	EPF740	EPF711	EPF721
Suitable fluid	Water and glycol solution				
Detection mode	Karman Vortex Street style				
Rated flow range	0.5~4 L/min	2~16 L/min	5~40 L/min	10~100 L/min	50~250 L/min
Display flow range	0.35~5.50 L/min (Displays 0 if below 0.35 L/min)	1.7~22.0 L/min (Displays 0 if below 1.7 L/min)	3.5~55.0 L/min (Displays 0 if below 3.5 L/min)	7~140 L/min (Displays 0 if below 7 L/min)	20~350 L/min (Displays 0 if below 20 L/min)
Set flow range	0.35~5.50 L/min	1.7~22.0 L/min	3.5~55.0 L/min	7~140 L/min	20~350 L/min
Set minimum unit	0.01 L/min	0.1 L/min	0.1 L/min	1 L/min	2 L/min
Cumulative pulse conversion value (pulse width =50 ms)	0.05 L/pulse	0.1 L/pulse	0.5 L/pulse	1 L/pulse	2 L/pulse
Operating fluid temperature	0~90 ℃(unfrozen/uncondensation)				0~70℃ (unfrozen/uncongealed)
Display unit	Instantaneous flow L/min, cumulative flow L				
precision	Display value ± 3%F.S. Analog output ± 3%F.S.				
repeatability	± 2%F.S.				
Temperature characteristic	+5%F.S.(25℃ basis)				
Service pressure range	0~1 MPa				
Withstand pressure test pressure	1.5 MPa				
Pressure loss (without flow control valve)	The maximum flow rate is below 45kPa				The maximum flow rate is below 60kPa
Cumulative flow range	99999999.9 L		999999999 L		
	Every 0.1L	Every 0.5L	Every 1 L		
Switching output	NPN or PNP collector open output				
	80 mA				
	DC28 V				
	NNPN: less than 1V (load current 80mA) PNP: less than 1.5V (load current 80mA)				
	0.5 S/1 S/2 S				
Output protection		Short circuit protection			
Output mode	Flow	Select hysteresis mode, upper and lower limit comparison mode, cumulative output mode, and cumulative pulse output mode			
	Temperature	Select the hysteresis mode and lower limit comparison mode			
simulate exporation	0.5 S/1 S/2 S(Linkage with switch output)				
	Output voltage :1~5V Output impedance :1KQ				
	Output current: 4~20 mA ; Maximum load impedance: 300 Ω at DC 12 V, 600 Ω at DC 24 V				
Retardation	changeable				
Display mode	2 Screen display (top 4 bits, 7 paragraphs :2 color display, red and green; Next 6 digits and 11 paragraphs: white) The update period is displayed 5 times per second				
Supply voltage	DC12~24 V ± 10%				
Current consumption	< 50 mA				
Environmental proof	Ip65				
	0~50℃(not frozen and not dew)				
	During operation and storage: 35~85%R.H.(no condensation)				
	AC1000V 1 min charging part together with housing				
	50 M Ω or more (DC500 V megohmmeter) charging part together with housing				
Certification, standards, etc	CE marking (EMC Directive)				
Contact liquid material	PPS、 SUS304				
	No grease specifications				

Attachments

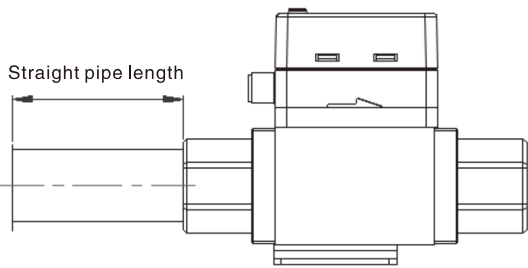


Pin Number	Pin Name	Line Color
1	DC(+)	BROWN
2	OUT 2	WHITE
3	DC(-)	BLUE
4	OUT1	BLACK

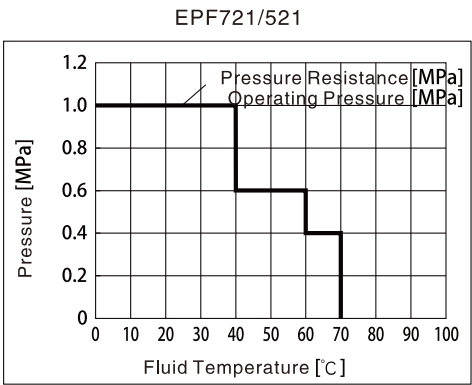
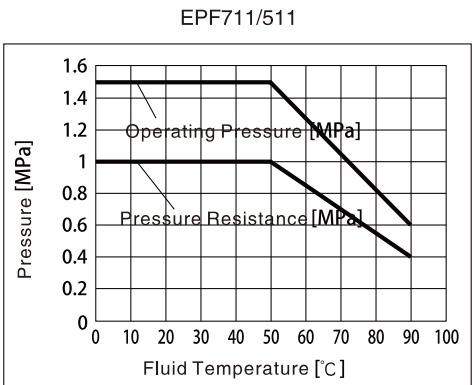
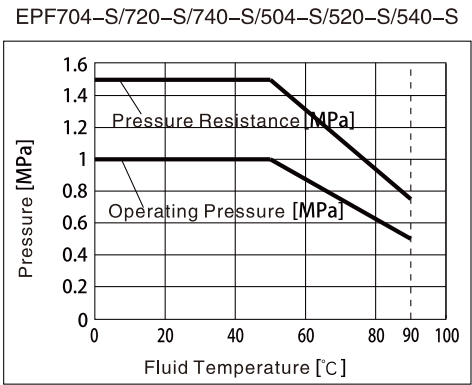
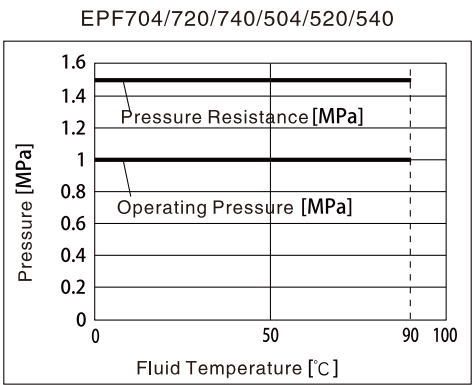
Conductor	Nominal cross-sectional area	0.25 mm²X4C
	Outside diameter	0.65mm
Insulator	Material	Heat-resisting PVC
	About	1.2 mm
Sheath	Material	Heat and oil resistant PVC
	Finished Outside Diameter	Ø4.5

⦿ Straight pipe length and accuracy (reference value)

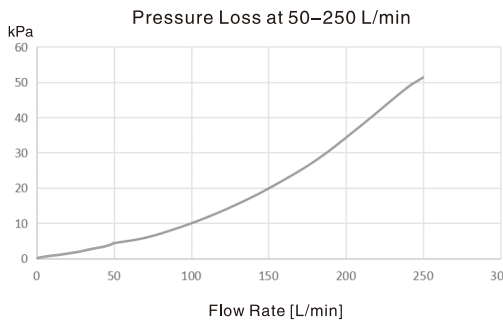
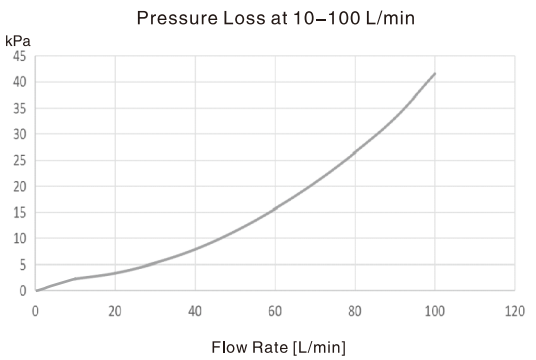
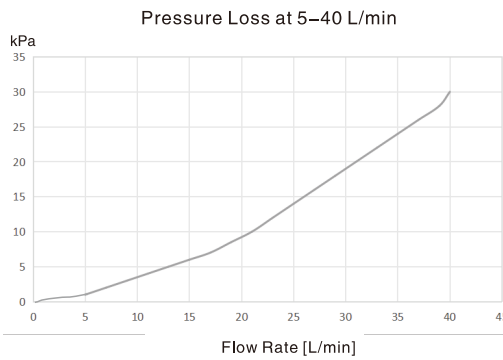
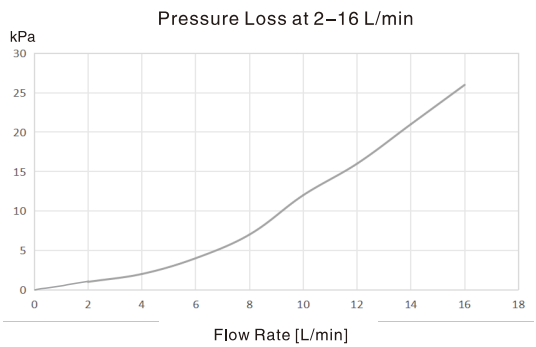
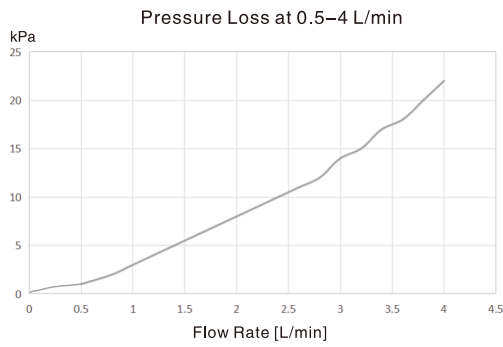
- The smaller the pipe diameter, the more susceptible it is to the influence of straight pipe length.
- It is almost unaffected by pressure.
- At low flow rates, the impact of straight pipe length is less significant.
- To maintain the specification within $\pm 3\%$ of the full scale (F.S.), the straight pipe length should be set to at least 11 cm.



⦿ Operating Pressure and Pressure Resistance

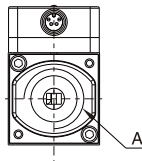
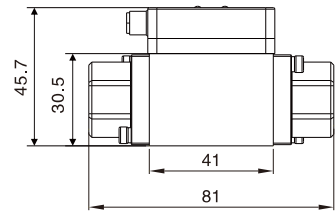


⦿ Flow characteristics (pressure drop: without flow control valve)



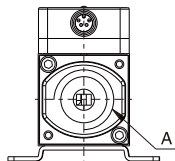
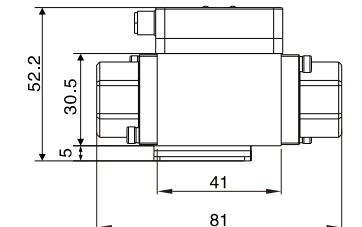
☉ Main dimensions (mm)

EPF504-1WL-



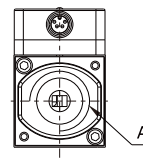
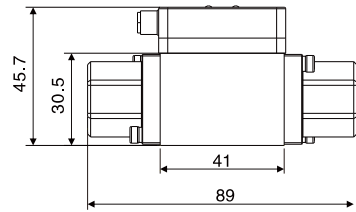
Diameter (A)
NPT3/8
G3/8
PT3/8

EPF504-1WLB-



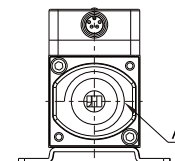
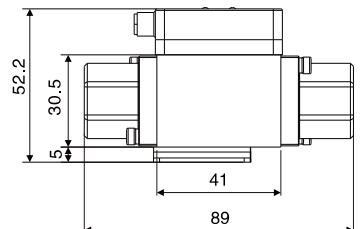
Diameter (A)
NPT3/8
G3/8
PT3/8

EPF520-1WL-



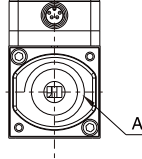
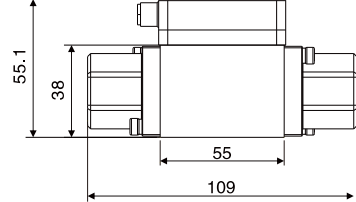
Diameter (A)
NPT3/8
G3/8
PT3/8
NPT1/2
G1/2
PT1/2

EPF520-1WLB-



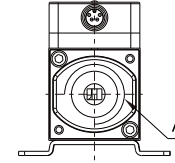
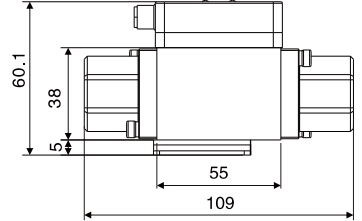
Diameter (A)
NPT3/8
G3/8
PT3/8
NPT1/2
G1/2
PT1/2

EPF540-1WL-



Diameter (A)
NPT3/4
G3/4
PT3/4
NPT1/2
G1/2
PT1/2

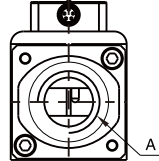
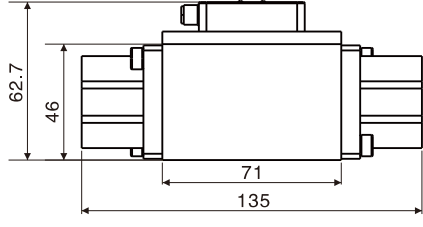
EPF540-1WLB-



Diameter (A)
NPT3/4
G3/4
PT3/4
NPT1/2
G1/2
PT1/2

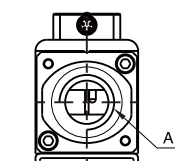
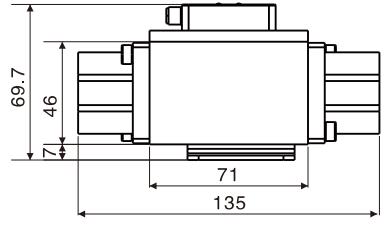
☉ Main dimensions (mm)

EPF511-1WL-



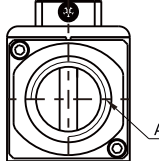
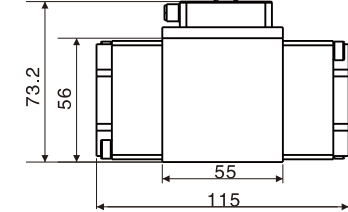
Diameter (A)
NPT3/4
G3/4
PT3/4
NPT1
G1
PT1

EPF511-1WLB-



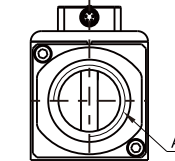
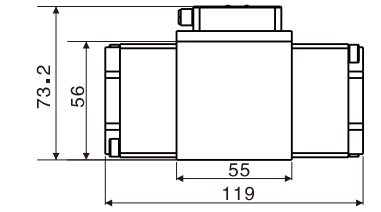
Diameter (A)
NPT3/4
G3/4
PT3/4
NPT1
G1
PT1

EPF521-1WL-



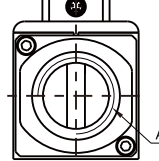
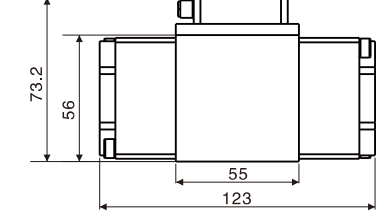
Diameter (A)
NPT1 1/4
PT1 1/4
NPT1 1/2
PT1 1/2

EPF521-121WL



Diameter (A)
G1 1/2

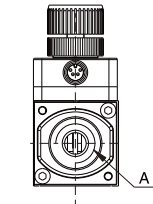
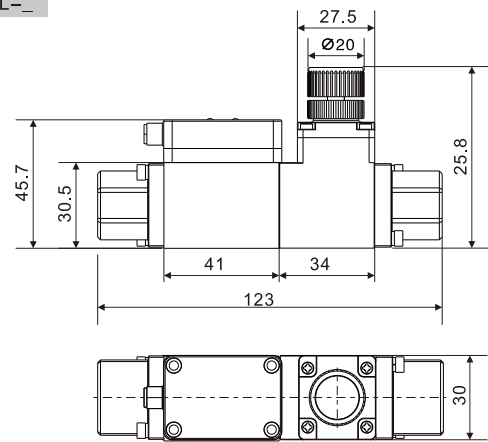
EPF521-141WL



Diameter (A)
G1 1/4

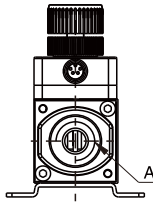
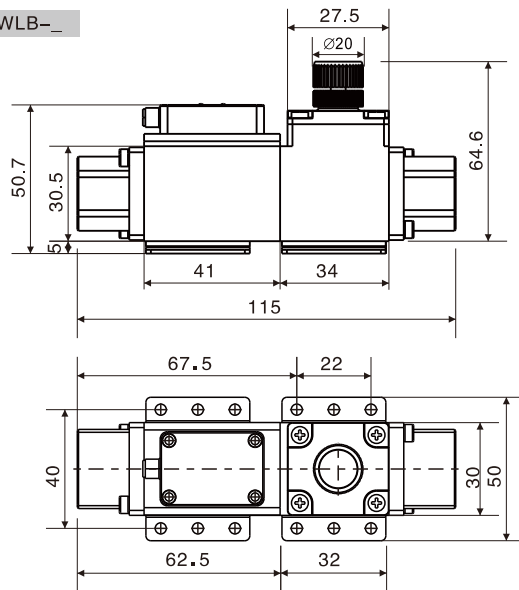
☉ Main dimensions (mm)

EPF504-S_1WL-_-



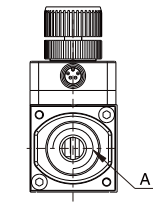
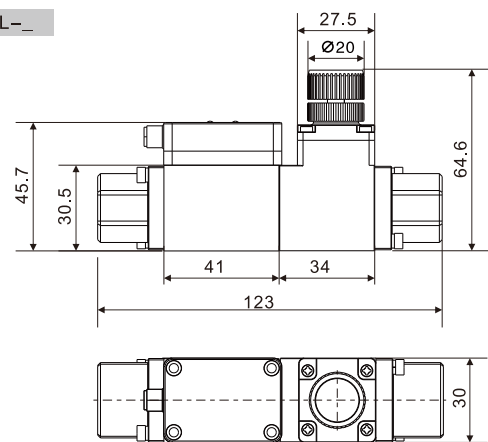
Diameter (A)
NPT3/8
G3/8
PT3/8

EPF504-S_1WLB-_-



Diameter (A)
NPT3/8
G3/8
PT3/8

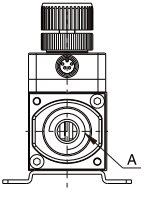
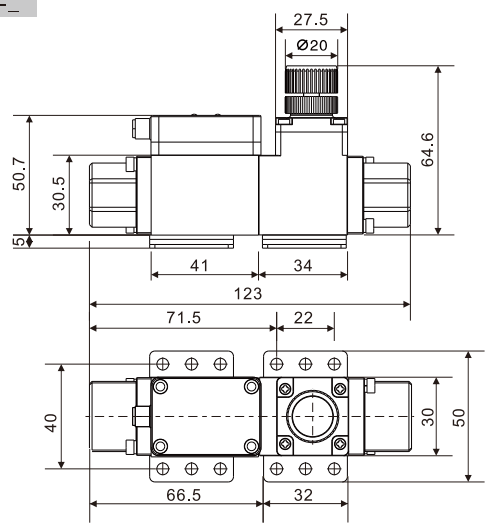
EPF520-S_1WL-_-



Diameter (A)
NPT3/8
G3/8
PT3/8
NPT1/2
G1/2
PT1/2

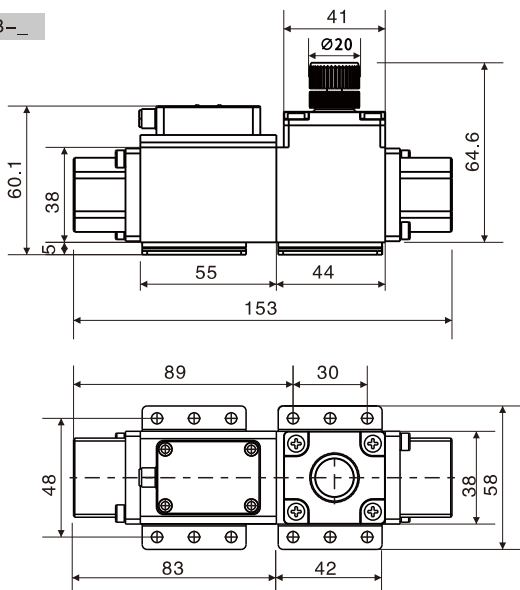
☉ Main dimensions (mm)

EPF520-S_1WLB-_-



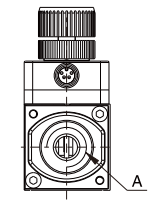
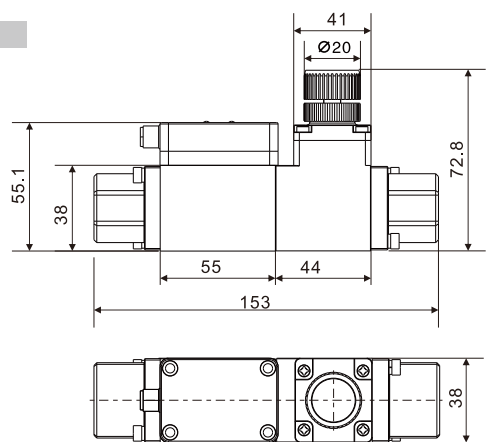
Diameter (A)
NPT3/8
G3/8
PT3/8
NPT1/2
G1/2
PT1/2

EPF540-S_1WLB-_-



Diameter (A)
NPT3/4
G3/4
PT3/4
NPT1/2
G1/2
PT1/2

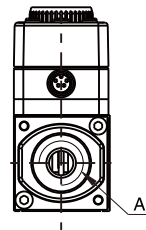
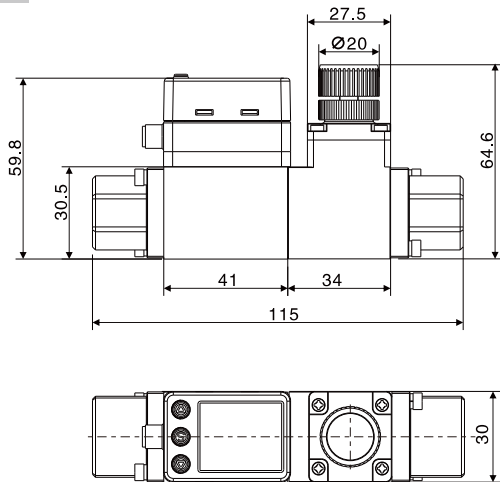
EPF540-S_1WL-_-



Diameter (A)
NPT3/4
G3/4
PT3/4
NPT1/2
G1/2
PT1/2

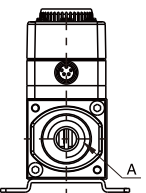
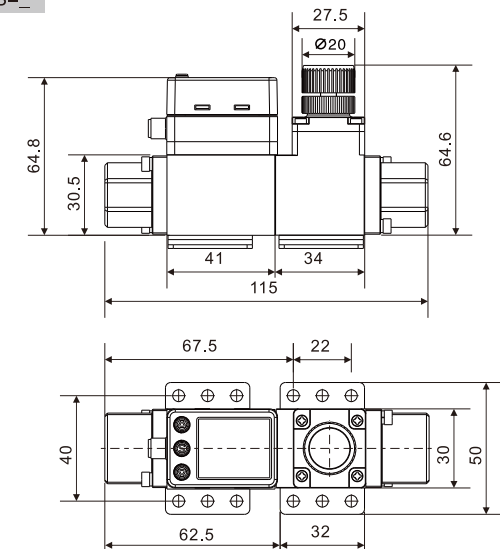
☉ Main dimensions (mm)

EPF720-S_CWL-_-



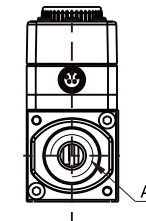
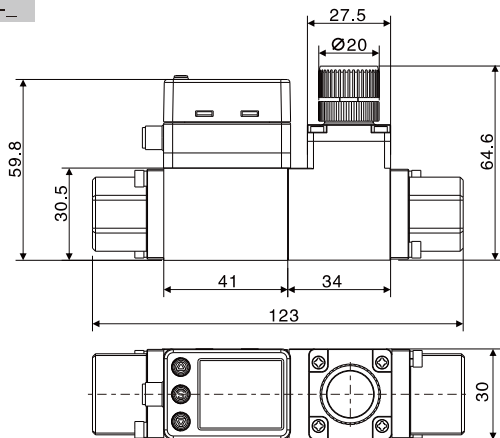
Diameter (A)
NPT3/8
G3/8
PT3/8

EPF720-S_CWLB-_-



Diameter (A)
NPT3/8
G3/8
PT3/8

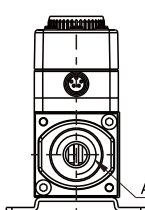
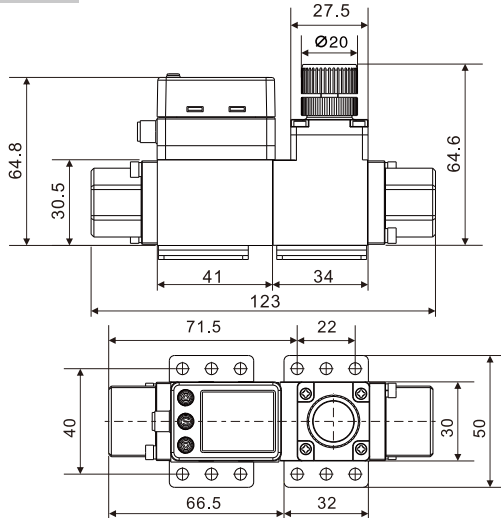
EPF720-S_CWL-_-



Diameter (A)
NPT3/8
G3/8
PT3/8
NPT1/2
G1/2
PT1/2

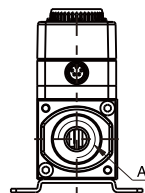
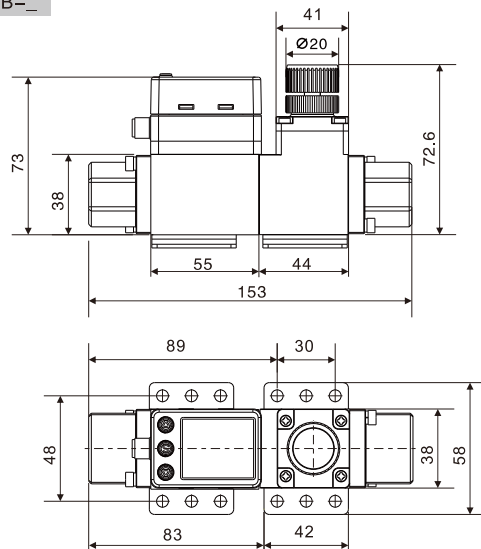
☉ Main dimensions (mm)

EPF720-S_CWLB-_-



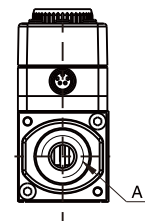
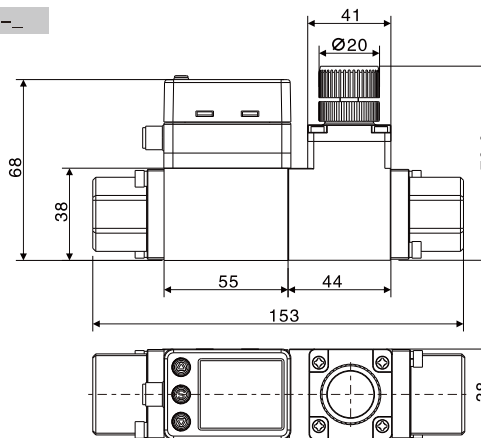
Diameter (A)
NPT3/8
G3/8
PT3/8
NPT1/2
G1/2
PT1/2

EPF740-S_CWLB-_-



Diameter (A)
NPT3/4
G3/4
PT3/4
NPT1/2
G1/2
PT1/2

EPF740-S_CWL-_-



Diameter (A)
NPT3/4
G3/4
PT3/4
NPT1/2
G1/2
PT1/2

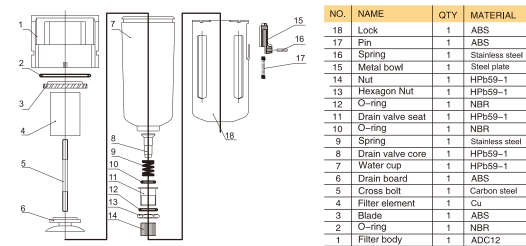
How to Order?

Series No.	Type Code	Body Size	Combination QTY	Port Size	Drain Type	Pressure Gauge Code	Bracket Code	Scale Unit	Filter Precision	Thread Type
EI: Square gauge series	C: Filter+regulator+ lubricator W: Filter+regulator F: Filter R: Regulator L: Lubricator	20: 2000 body 30: 3000 body 40: 4000 body 50: 5000 body	10: Two units (Regulator+Lubricator) 00: Others	2000 01: 1/8 " 4000 04: 1/2 " 3000 02: 1/4 " 5000 06: 3/4 " 03: 3/8 " 10: 1 "	Blank: Manual drain type C: Semi-auto drain D: Auto Drain type	Blank: With pressure gauge N: No pressure gauge	Blank: With bracket J: No bracket	1: Mpa 2: Bar *3: Psi (*Need special made)	Blank: 25 μm 5M: 5 μm	Blank: G P: PT T: NPT

Order Example:
EI series regulator, 2000 body size, 1/8 port size, with pressure gauge, Mpa pressure unit, G thread, ERP code is: EIR2000-01 1
Note: 1 2000series is optional for manual /auto drain type;
Standard 3000/4000/5000series are optional for manual/semi-auto/semi-auto integrated drain type.

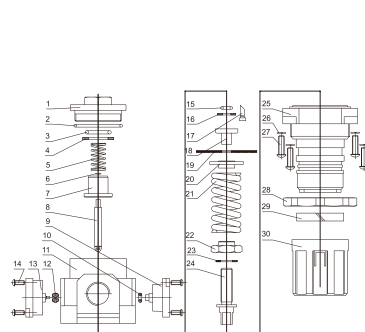
Air Preparation Unit Kits

EIF3000



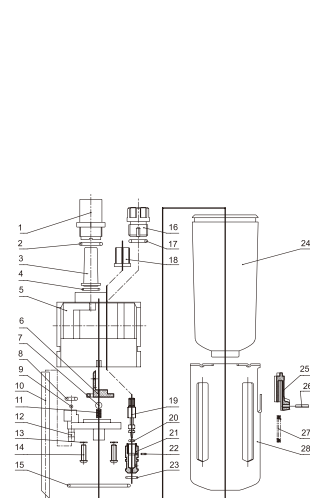
NO.	NAME	QTY	MATERIAL
18	Lock	1	ABS
17	Pin	1	ABS
16	Spring	1	Stainless steel
15	Metal bowl	1	Steel plate
14	Nut	1	HPb59-1
13	Hexagon Nut	1	HPb59-1
12	O-ring	1	NBR
11	Drain valve seat	1	HPb59-1
10	O-ring	1	NBR
9	Spring	1	Stainless steel
8	Drain valve core	1	HPb59-1
7	Water cup	1	HPb59-1
6	Drain board	1	ABS
5	Cross bolt	1	Carbon steel
4	Filter element	1	Cu
3	Blade	1	ABS
2	O-ring	1	NBR
1	Filter body	1	ADC12

EIR3000



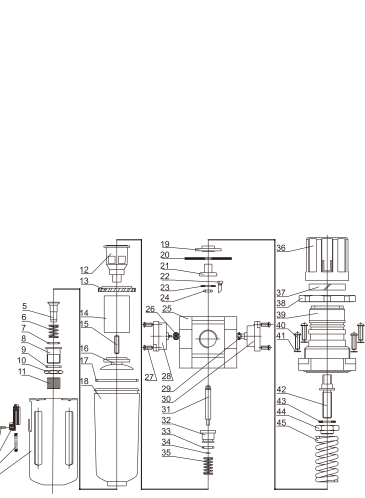
NO.	NAME	QTY	MATERIAL
30	Regulate handle	1	Reinforce nylon
29	Symbol ring	1	Reinforce nylon
28	Plastic combination	1	POM
27	Cross screw	4	Carbon steel
26	Spring washer	4	Carbon steel
25	Regulator Body	1	Aluminum
24	Regulate bolt	1	Carbon steel
23	Washer	1	POM
22	Regulate Nut	1	Carbon steel
21	Spring	1	Stainless steel
20	Diaphragm Plate	1	Carbon steel
19	Diaphragm	1	NBR
18	Diaphragm seat	1	Brass
17	Pipe	1	POM
16	Retainer ring	1	Steel plate
15	O-ring	1	NBR
14	Cross screw	4	Carbon steel
13	Plastic connection	1	POM
12	Seal	1	NBR
11	Regulator body	1	Aluminum
10	Seal	1	NBR
9	Connection	1	ABC12
8	Spool	1	Brass+NBR
7	Valve core	1	Brass
6	Retainer ring	1	Steel plate
5	Spring	1	Stainless steel
4	Retainer ring	1	Steel plate
3	O-ring	1	NBR
2	O-ring	1	NBR
1	Regulator seat	1	ZZnAl4-1

EIL3000



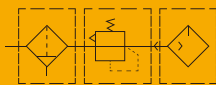
NO.	NAME	QTY	MATERIAL
28	Oil cup	1	Polycarbonate
27	Lock	1	ABS
26	Pin	1	ABS
25	Spring	1	Stainless steel
24	Metal bowl	1	Steel plate
23	O-ring	1	NBR
22	Pin	1	Q235
21	Oil regulate seat	1	HPb59-1
20	O-ring	1	NBR
19	Oil regulate needle	1	HPb59-1
18	Oil regulate pointer	1	ABS
17	O-ring	1	NBR
16	Plug	1	ABS
15	O-ring	1	NBR
14	Cross screw	2	Q235
13	Spring washer	2	Stainless steel
12	One way valve plate	1	POM
11	Spring	1	Stainless steel
10	Pipe	1	PU tube
9	Steel ball	1	Q235
8	O-ring	1	NBR
7	Steel ball	1	Q235
6	Read	1	Polycarbonate
5	Lubricator body	1	ADC12
4	O-ring	1	NBR
3	Oil drop tube	1	Polycarbonate
2	O-ring	1	NBR
1	Oil window	1	Polycarbonate

EIW3000



NO.	NAME	QTY	MATERIAL
45	Spring	1	Carbon steel
44	Regulate nut	1	Carbon steel
43	Washer	1	POM
42	Regulate bolt	1	Carbon steel
41	Spring washer	4	Carbon steel
40	Cross screw	4	Carbon steel
39	Valve cover	1	Reinforce nylon
38	Nut	1	Reinforce nylon
37	Symbol ring	1	Reinforce nylon
36	Regulate handle	1	Reinforce nylon
35	Spring	1	Stainless steel
34	Retainer	1	Steel plate
33	O-ring	1	NBR
32	Valve core	1	Brass
31	Spool	1	HPb59-1+NBR
30	connection	1	ABC12
29	Seal	1	NBR
28	Plastic connection	1	POM
27	Cross screw	4	Carbon steel
26	Seal	1	NBR
25	Regulator Body	1	Aluminum
24	O-ring	1	NBR
23	Retainer ring	1	Carbon steel
22	Pipe	1	POM
21	Diaphragm seat	1	Brass
20	Diaphragm	1	NBR
19	Diaphragm valve	1	Carbon steel
18	Water cup	1	Polycarbonate
17	O-ring	1	NBR
16	Drain board	1	ABS
15	Bolt	1	Carbon steel
14	Filter element	1	Brass
13	Whirling blade	1	ABS
12	Overpressure seat	1	ZZnAl4-1
11	Bowl guard	1	Carbon steel
10	Spring	1	Stainless steel
9	Lock	1	ABS
8	Pin	1	ABS
7	Nut	1	Brass
6	Hex Nut	1	Brass
5	O-ring	1	NBR
4	Drain valve	1	Brass
3	O-ring	1	NBR
2	Spring	1	Stainless steel
1	Valve core	1	Brass

EIC
F.R.L



Specifications

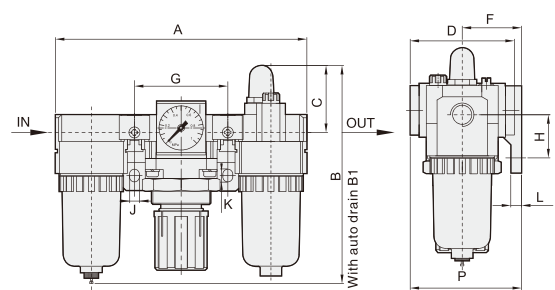
Model	EIC2000	EIC3000	EIC4000	EIC5000
Proof Pressure(MPa)	1.5			
Working Pressure Range(MPa)	0.15~1.0			
Pressure Adjustment Range(MPa)	0.05~0.9			
Working temperature(°C)	-5~60			
Filter precision	25µm(5 µm is optional)			
Recommended oil	Turbine No.1 Oil ISOVG32			
Bowl material	Polycarbonate			
Bowl guard	None	Available		
Valve type	With overflow			

Model	Specifications			* Rated flow (L/min)	* Port size (G)
	Filter	Assembly Regulator	Lubricator		
EIC2000-01	EIF2000	EIR2000	EIL2000	1000	1/8
EIC2000-02				1100	1/4
EIC3000-02				1950	1/4
EIC3000-03	EIF3000	EIR3000	EIL3000	2105	3/8
EIC4000-04				5200	1/2
EIC5000-06				6200	3/4
EIC5000-10	EIF5000	EIR5000	EIL5000	6500	1

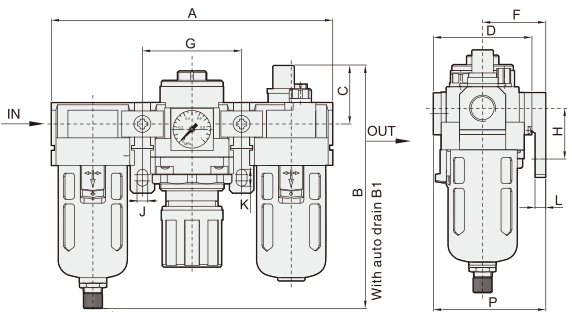
* The above information is based on 8.0 Bar supply pressure and 6.3 Bar set pressure * NPT,PT port size is optional

Main Dimension

EIC2000

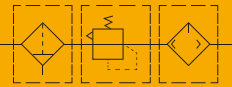


EIC3000-EIC5000



Model	Port Size (G)	A	B	B1	C	D	F	G	H	J	K	L	P
EIC2000	1/8"-1/4"	140	123	161	37.5	54	30	50	24	5.5	8.5	5	57
EIC3000	1/4"-3/8"	184	157.5	170	39	64	41	65	35	7.5	11	7.2	71
EIC4000	3/8"-1/2"	238	190	194	40	80	50	84	40	9	13	7.2	88
EIC5000	3/4"-1"	300	271.5	274.5	45.5	90	69.8	105	50	12	16	10.5	115

EIC
FR.L



Specifications

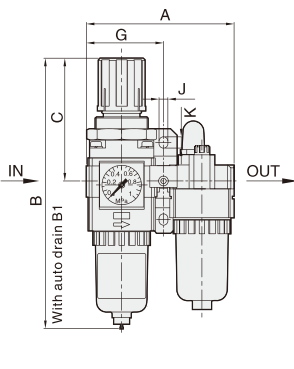
Model	EIC2010	EIC3010	EIC4010	EIC5010
Proof Pressure(MPa)	1.5			
Working Pressure Range(MPa)	0.15~1.0			
Pressure Ajdustment Range(MPa)	0.05~0.9			
Working temperature(℃)	-5-60			
Filter precision	25μm(5 μm is optional)			
Recommended oil	Turbine No.1 Oil ISOVG32			
Bowl material	Polycarbonate			
Bowl guard	None	Available		
Valve type	With overflow			

Model	Assembly		* Rated flow (L/min)	*Port size (G)
	Filter with pressure reducer	Lubricator		
EIC2010-01	EIW2000	EIL2000	945	1/8
EIC2010-02		EIL2000	960	1/4
EIC3010-02		EIL3000	1874	1/4
EIC3010-03	EIW3000	EIL3000	1956	3/8
EIC4010-04	EIW4000	EIL4000	5120	1/2
EIC5010-06	EIW5000	EIL5000	6000	3/4
EIC5010-10			6200	1

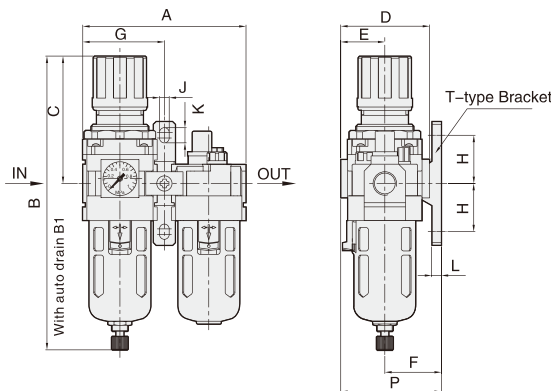
* The above information is based on 8.0 Bar supply pressure and 6.3 Bar set pressure * NPT,PT port size is optional

Main Dimension

EIC2010

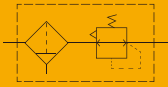


EIC3010-EIC5010



Model	Port Size (G)	A	B	B1	C	D	E	F	G	H	J	K	L	P
EIC2010	1/8"-1/4"	90	168.5	205.5	82	54	27	29.5	45	24	5.5	8.5	5	56.5
EIC3010	1/4"-3/8"	117	210.5	224.5	92	63	31.5	40	59.5	35	7.5	11	7.2	71.5
EIC4010	3/8"-1/2"	154	264	267	113.5	80	40	49.5	77	39	9	13	7.2	89.5
EIC5010	3/4"-1"	195	343	348	121.5	94	47	68.5	97.5	50	12	16	10.5	115.5

EIW
F&R



Specifications

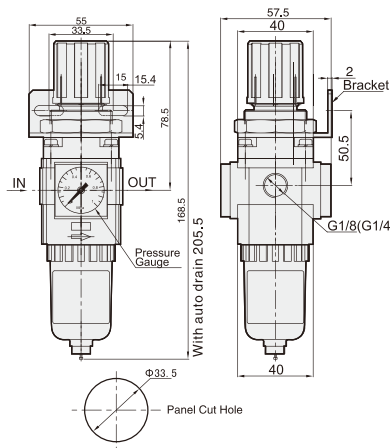
Model	EIW2000	EIW3000	EIW4000	EIW5000
Proof Pressure(MPa)	1.5			
Working Pressure Range(MPa)	0.15~1.0			
Pressure Adjustment Range(MPa)	0.05~0.9			
Working temperature(°C)	-5~60			
Filter precision	25µm(5 µm is optional)			
Bowl material	Polycarbonate			
Bowl guard (MPa)	None	Available		
Valve type	With overflow			

Model	Specifications		Drain function	Auto drain model
	*Rated flow (L/min)	*Port size(G)		
EIW2000-01	1078	1/8	Manual drain	EIW2000-01D
EIW2000-02	1165	1/4		EIW2000-02D
EIW3000-02	1998	1/4	Zero pressure drain/Manual drain	EIW3000-02D
EIW3000-03	2177	3/8		EIW3000-03D
EIW4000-04	5211	1/2		EIW4000-04D
EIW5000-06	6200	3/4		EIW5000-06D
EIW5000-10	6400	1		EIW5000-10D

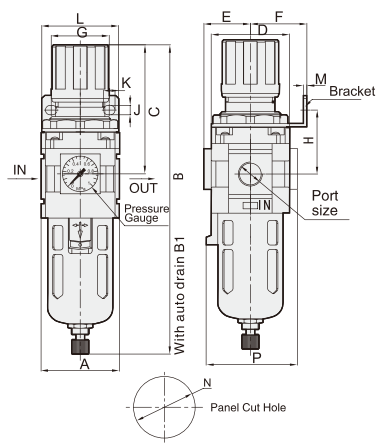
* The above information is based on 8.0 Bar supply pressure and 6.3 Bar set pressure * NPT,PT port size is optional

Main Dimension

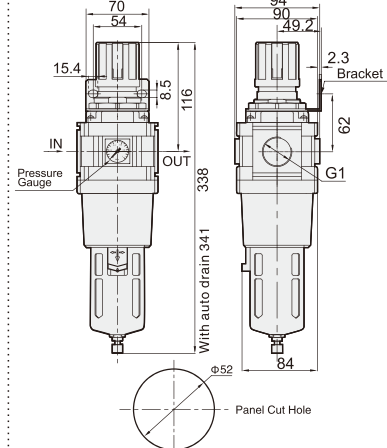
EIW2000



EIW3000-EIW4000

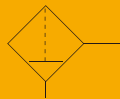


EIW5000



Model	Port Size (G)	A	B	B1	C	D	E	F	G	H	J	K	L	M	N	P
EIW2000	1/8"-1/4"	40	168.5	205.5	78.5	40	27	30.5	33.5	49.5	5.4	15	55	2	33	40
EIW3000	1/4"-3/8"	53	210.5	224.5	92	53	31.5	39	40	45.5	6.5	8	53	2	42	63
EIW4000	3/8"-1/2"	70	264	267	113.5	70	40	48	53.5	54.5	8.5	10.5	70	2	52	73
EIW5000	3/4"-1"	90	343	348	116.5	90	47	48	53.5	62	8.5	10.5	70	2	52	84

EIF
Filter



Specifications

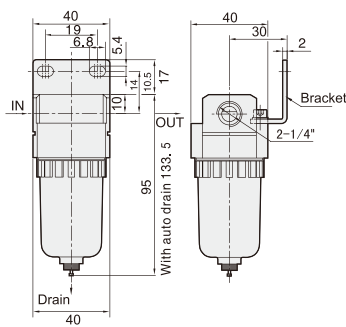
Model	EIF2000	EIF3000	EIF4000	EIF5000
Proof pressure(MPa)	1.5			
Working Pressure Range(MPa)	0.15~1.0			
Working temperature(°C)	-5~60			
Filter precision	25µm(5 µm is optional)			
Bowl material	Polycarbonate			
Bowl guard	None	Available		
Entrance pressure(MPa)	0.15~1.0			

Model	Specifications			Drain function	Auto drain model
	*Rated flow (L/min)	*Port size (G)	Bowl capacity (cm³)		
EIF2000-01	1222	1/8	15	Manual drain	EIF2000-01D
EIF2000-02	1278	1/4			EIF2000-02D
EIF3000-02	2006	1/4			EIF3000-02D
EIF3000-03	2148	3/8	20		EIF3000-03D
EIF4000-04	5430	1/2			EIF4000-04D
EIF5000-06	8200	3/4	130	Zero pressure drain/Manual drain	EIF5000-06D
EIF5000-10	8500	1			EIF5000-10D

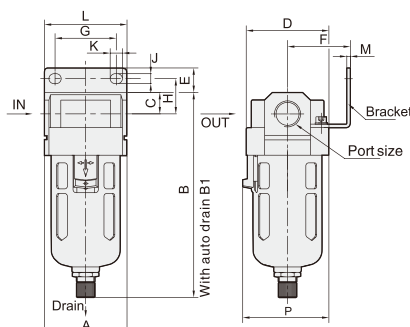
* The above information is based on 6.3 Bar supply pressure and 1.0 Bar set pressure * NPT,PT port size is optional

Main Dimension

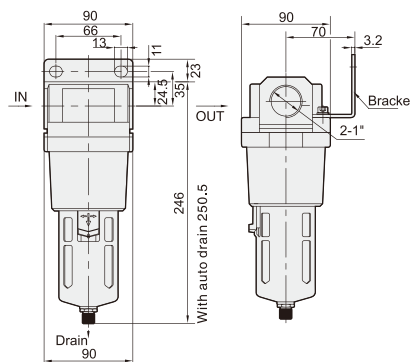
EIF2000



EIF3000-EIF4000

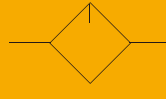


EIF5000



Model	Port Size (G)	A	B	B1	C	D	E	F	G	H	J	K	L	M	P
EIF2000	1/8"-1/4"	40	95	133.5	10.5	40	25	31	19	14	17	6.8	40	2	-
EIF3000	1/4"-3/8"	53	132.5	145	14	53	15	41.5	40	22	6.5	8	53	2	56
EIF4000	3/8"-1/2"	70	168	171.5	18	70	18	53	54	27	8.5	10.5	70	2	73
EIF5000	3/4"-1"	90	246	250	24	90	23	67	66	35	11	13	90	3	-

EIL
Lubricator



Specifications

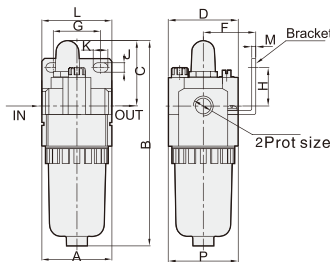
Model	EIL2000	EIL3000	EIL4000	EIL5000
Proof pressure(MPa)	1.5			
Working Pressure Range(MPa)	0.05~1.0			
Working temperature(℃)	-5~60			
Recommended oil	Turbine No.1 Oil ISOVG32			
Bowl material	Polycarbonate			
Bowl guard	None	Available		
Entrance pressure(MPa)	0.15~1.0			

Model	Specifications			
	* Minimal flow of oil drop (L/min)	* Rated flow (L/min)	* Port size(G)	Bowl capacity (cm³)
EIL2000-01	15	1300	1/8	25
EIL2000-02		1345	1/4	
EIL3000-02	30	2310	1/4	50
EIL3000-03	40	2375	3/8	
EIL4000-04	50	5532	1/2	130
EIL5000-06	190	7700	3/4	
EIL5000-10		8000	1	130

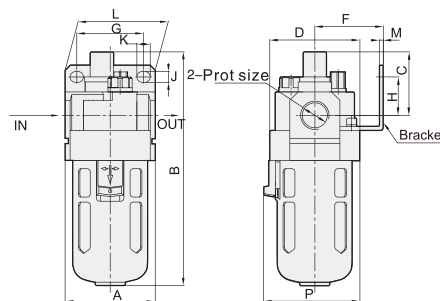
* The above information is based on 6.3 Bar supply pressure, the flow of oil drop is 2~3 drops/ min,
the temperature of Turbine No.1 oil is 20°C
* The above information is based on 6.3 Bar supply pressure and 1.0 Bar step down
* NPT,PT port size is optional

Main Dimension

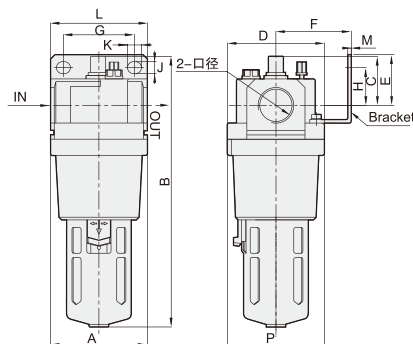
EIL2000



EIL3000-EIL4000



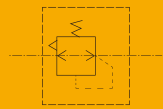
EIL5000



Model	Port Size (G)	A	B	C	D	F	G	H	J	K	L	M	P
EIL2000	1/8"-1/4"	40	115	37.5	40	31	19	14	17	6.8	40	2	40
EIL3000	1/4"-3/8"	53	141	39	53	41	40	23	6.5	8	53	2	56
EIL4000	3/8"-1/2"	70	175	40	70	53	54	26	8.5	10.5	70	2	73
EIL5000	3/4"-1"	90	254	45.5	90	67	66	35	11	13	90	3	90



EIR
Regulator



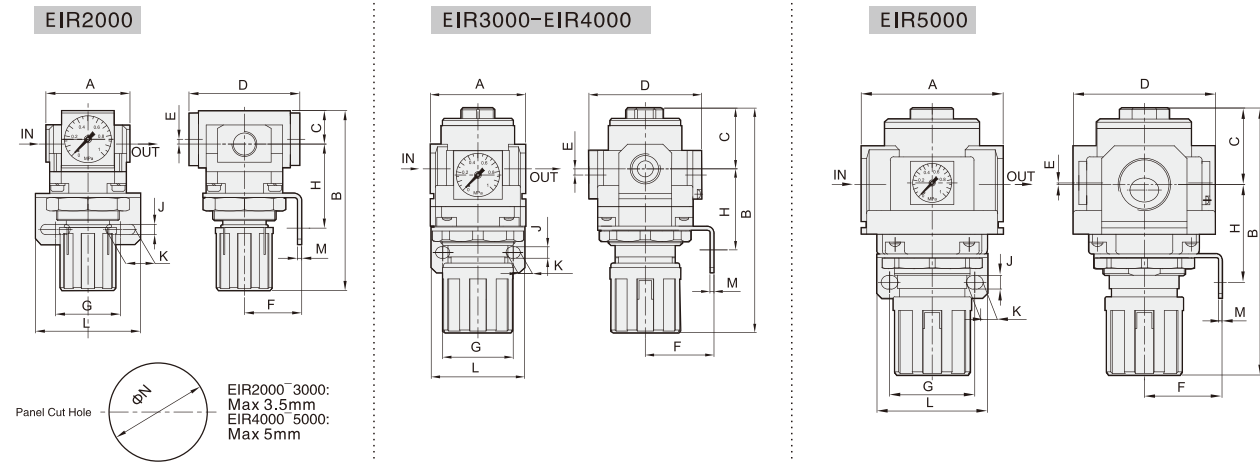
Specifications

Model	EIR2000	EIR3000	EIR4000	EIR5000
Proof pressure(MPa)	1.5			
Max. working pressure(MPa)	1.0			
Pressure adjusting range(MPa)	0.05~0.9			
Working temperature(°C)	-5~60			
Valve type	With overflow			

Model	Specifications	
	* Rated flow (L/min)	* Port Size (G)
EIR2000-01	1178	1/8
EIR2000-02	1200	1/4
EIR3000-02	2112	1/4
EIR3000-03	2212	3/8
EIR4000-04	5312	1/2
EIR5000-06	6400	3/4
EIR5000-10	6600	1

* The above information is based on 8.0 Bar supply pressure and 6.3 Bar set pressure * NPT,PT port size is optional

Main Dimension



Model	Port Size (G)	A	B	C	D	E	F	G	H	J	K	L	M	N
EIR2000	1/8"-1/4"	40	95	17	55	1.3	30.5	33.5	44	5.4	15	55	2	33
EIR3000	1/4"-3/8"	53	127.5	34.5	64	3	39	40	46	6.5	8	53	2	42
EIR4000	1/2"	70	149.5	37.5	81	4	48	53.5	54.5	8.5	10.5	70	2	52
EIR5000	3/4"-1"	90	168	49	90	0.5	48	53.5	62	8.5	10.5	70	2	52

EIR-K
Regulator with backflow function



How to Order?

Series No.	Valve body size	Type code	Port size	Pressure Gauge code	Bracket code	Scale unit	Thread type
EIR:Regulator with square gauge	Blank: Standard Type K: Backflow type			Blank: With Pressure Gauge N: Without Pressure Gauge		1: Mpa 2: Bar 3: Psi	Blank: G P: PT T: NPT
2000:2000 Series		2000	01: 1/8 " 02: 1/4 "	4000 04: 1/2 " ①	Blank: With bracket J: Without bracket		
3000:3000 Series							
4000:4000 Series		3000	02: 1/4 " 03: 3/8 "	5000 06: 3/4 " 10: 1 "			
5000:5000 Series							

Order ExampleRegulator with square gauge, 2000 series body , backflow type, 1/4" port size, with gauge, with bracket, MPa, G thread, ERP code is: EIR2000K-021

- Note:** 1. Backflow type regulator must work separately ; the regulator knob must be upward, the air should be left port in and right port out.
2. 2000 series must work in case of knob upward and left port in & right port out Right port in & left port out is not available currently.
3. Standard 3000,4000,5000 series with backflow function must conform to above 1st point.If right port in & left port out was requested, EMC can customize it .

Note: ① 3/8" and 3/4" port are not available for 4000 series .

Specifications

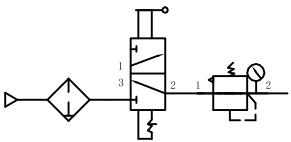
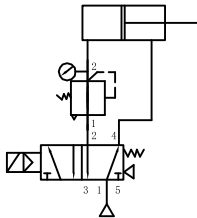
Model	EIR2000K	EIR3000K	EIR4000K	EIR5000K
Working Medium	Clean air(After 40 μ m filtration)			
Proof pressure(MPa)	1.5			
Max. Working pressure(MPa)	1.0			
Pressure adjusting range(MPa)	0.05~0.9			
Working temperature(°C)	-5~60 (No freezing)			
Overpressure Exhaust Mechanism	With overflow			

Model	Rated flow(L/min) *	Port size *
EIR2000K-01	1178	1/8"
EIR2000K-02	1200	1/4"
EIR3000K-02	2112	1/4"
EIR3000K-03	2212	3/8"
EIR4000K-04	5312	1/2"
EIR5000K-06	6400	3/4"
EIR5000K-10	6600	1"

* Supply pressure 8.0Bar , Set pressure 6.3Bar ,and pressure difference 1 Bar, testing result shows that standard type and backflow type have same flow rate.
* G, PT, NPT is optional.

Suitable Applications

- The pressure is different between piston rod side and the opposite side.
- Exhaust through the inlet port when air supply stopped. It is a safety precaution.
The residual compress air on the outlet side of pressure reducing valve can be discharged



EIR-K Series Regulator with Backflow Function

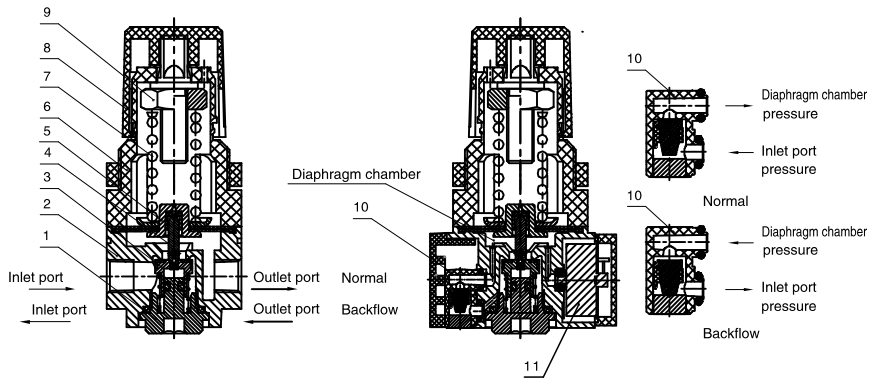
EIW-K Series Filter Regulator with Backflow Function



Construction and working principle

Working principle:

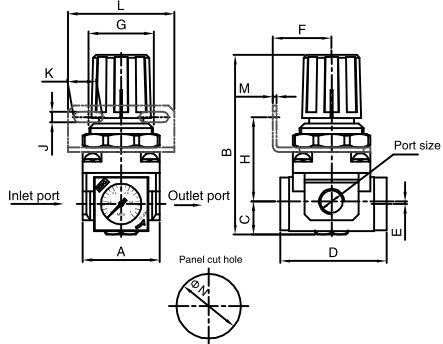
- 1. When inlet pressure is higher than set pressure, one-way valve 10 closes, it works as a normal regulator.
- 2. When the inlet pressure blocked, the one-way valve 10 opens, pressure in diaphragm chamber exhausts from the inlet side . When diaphragm chamber pressure goes down, diaphragm is pushed down by the spring force, The valve core will be open by valve rod, pressure at the outlet side exhaust through the inlet side, it works as a regulator with backflow function.



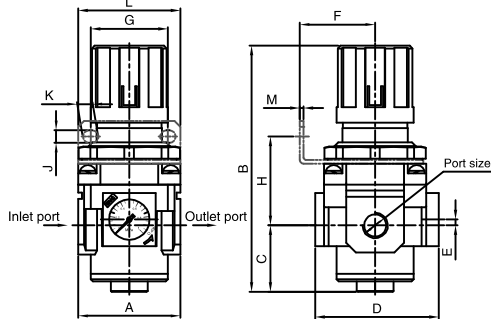
No.	Name	Material
1	Regulator seat	Aluminium
2	Regulator body	Aluminium
3	Valve core	NBR/Metal
4	Spool	Brass
5	Diaphragm components	NBR/Metal
6	Valve cover	Reinforce nylon (2000/3000) Aluminium(4000/5000)
7	Spring	SWC
8	Knob	Reinforce nylon
9	Adjustment bolt components	Free-cutting steel
10	One-way valve components	NBR/Plastic
11	Pressure gauge	Brass/Plastic

Main Dimension

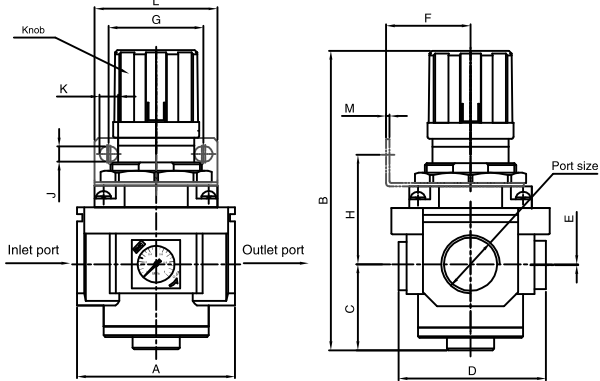
EIR2000K



EIR3000K-EIR4000K



EIR5000K



Note:

- 1. Backflow type regulator knob should be upward, left port inlet and right port outlet.
- 2. Standard regulator knob should be downward, left port inlet and right port outlet. (Refer to EI series of standard type)
- 3. The installation size and dimensions of standard and backflow type are same.

Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	N
EIR2000K	1/8" -1/4"	40	95	17	55	1.3	30.5	33.5	44	5.4	15	55	2	33
EIR3000K	1/4" -3/8"	53	127.5	34.5	64	3	39	40	46	6.5	8	53	2	42
EIR4000K	1/2"	70	149.5	37.5	81	4	48	53.5	54.5	8.5	10.5	70	2	52
EIR5000K	3/4" -1"	90	168	49	90	0.5	48	53.5	62	8.5	10.5	70	2	52

EIW-K

Filter regulator with backflow function



How to Order?

Series No.	Valve body size	Type code	Port size	Drain Type	Pressure Gauge Code	Bracket code	Scale unit	Filter Precision	Thread type
EIW:Regulator filter with square gauge		K: Backflow type		Blank: Manual drain type C:Semi-auto drain D: Auto Drain type			1: Mpa 2: Bar 3: Psi	Blank: 25 μ m 5M: 5 μ m	Blank: G P : PT T : NPT
2000:2000 Series 3000:3000 Series 4000:4000 Series 5000:5000 Series		2000	01: 1/8 " 02: 1/4 " 03: 3/8 "	4000 03: 3/8 " 04: 1/2 " 06: 3/4 " 5000 06: 3/4 " 10: 1 "		Blank: With bracket J: Without bracket Blank: With pressure gauge N: Without pressure gauge			

- Order Example**Regulator filter with square gauge, 2000 series body , backflow type, 1/4" port , auto drain type, with gauge, with bracket, MPa, filter precision 5 μ m, G thread, ERP code is:EIW2000K-02D15M.
- Note:**1. Backflow type regulator filter must work separately ; the knob must be upward, the air should be left port in and right port out.
2. 2000 series must work in case of knob upward and left port in & right port out Right port in & left port out is not available currently.
3. Standard 3000,4000,5000 series with backflow function must conform to above 1st point.If right port in & left port out was requested, EMC can customize it .

Specifications

Model	EIW2000K	EIW3000K	EIW4000K	EIW5000K
Working Medium	Clean air(After 40 μ m filtration)			
Proof pressure(MPa)	1.5			
Working Pressure Range(MPa)	0.15~1.0			
Pressure Adjustment Range(MPa)	0.05~0.9			
Working temperature(℃)	-5~60 (No freezing)			
Filter precision	25 μ m/5 μ m optional			
Bowl material	PC(Polycarbonate)			
Bowl guard	None	Available		
Overpressure Exhaust Mechanism	With overflow			

Model	Rated flow(L/min) *	Port size *
EIW2000K-01	1078	1/8"
EIW2000K-02	1165	1/4"
EIW3000K-02	1998	1/4"
EIW3000K-03	2177	3/8"
EIW4000K-03	5108	3/8"
EIW4000K-04	5211	1/2"
EIW4000K-06	5900	3/4"
EIW5000K-06	6200	3/4"
EIW5000K-10	6400	1"

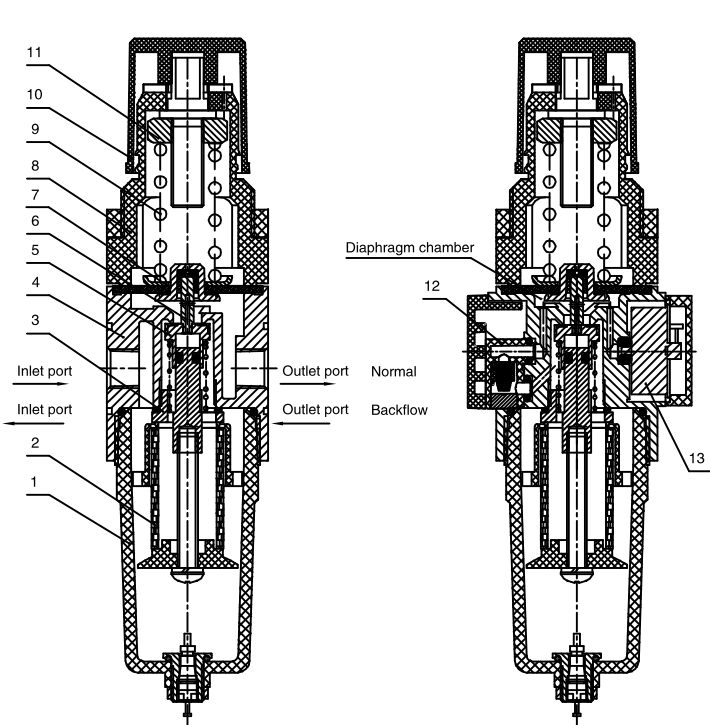
* Supply pressure 8.0Bar , Set pressure 6.3Bar ,and pressure difference 1 Bar, testing result shows that standard type and backflow type have same flow rate.
* G, PT, NPT is optional.



Construction and working principle

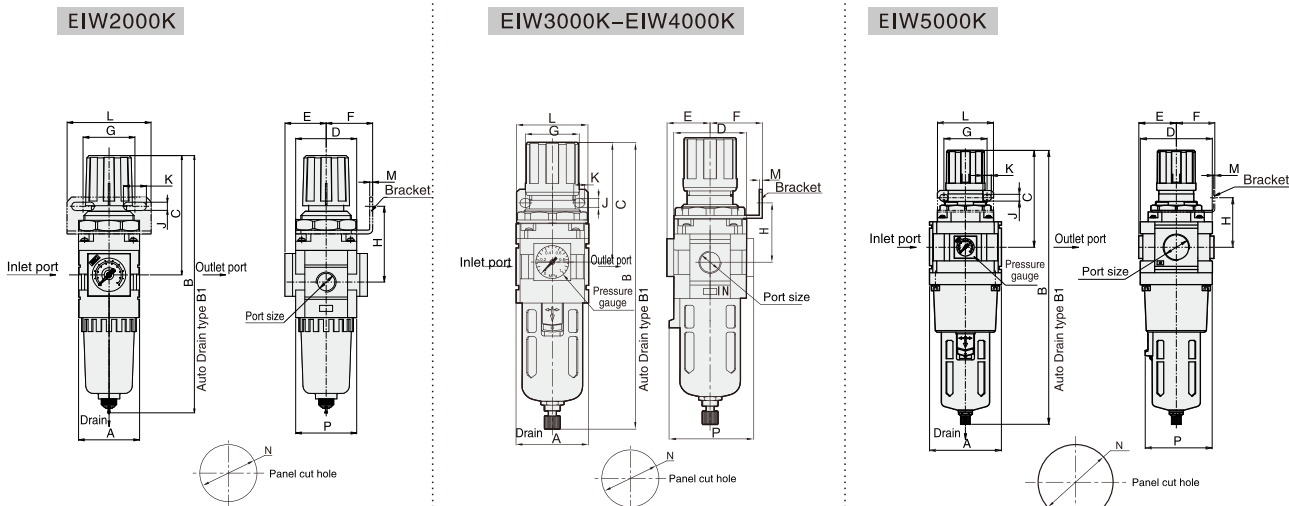
Working principle:

- 1. When inlet pressure is higher than set pressure, one-way valve 10 closes, it works as a normal regulator.
- 2. When the inlet pressure blocked, the one-way valve 12 opens, pressure in diaphragm chamber exhausts from the inlet side . When diaphragm chamber pressure goes down, diaphragm is pushed down by the spring force, The valve core will be open by valve rod, pressure at the outlet side exhaust through the inlet side, it works as a regulator with backflow function.



No.	Name	Material
1	Bowl components	Polycarbonate/Metal
2	Filter core	Brass
3	Relieving valve seat	Aluminium
4	Body	Aluminium
5	Valve core components	NBR/Metal
6	Valve spool	Brass
7	Diaphragm components	NBR/Metal
8	Valve cover	Reinforce nylon (2000/3000) Aluminium(4000/5000)
9	Spring	SWC
10	Knob	Reinforce nylon
11	Adjustment bolt components	Free-cutting steel
12	One-way valve components	NBR/Plastic
13	Pressure gauge	Brass/Plastic

Main Dimension



Model	Port size	A	B	B1	C	D	E	F	G	H	J	K	L	M	N	P
EIW2000K	1/8"-1/4"	40	168.5	205.5	78.5	40	27	30.5	33.5	49.5	5.4	15	55	2	33	40
EIW3000K	1/4"-3/8"	53	210.5	224.5	92	53	31.5	39	40	45.5	6.5	8	53	2	42	63
EIW4000K	3/8"-1/2"	70	264	267	113.5	70	40	48	53.5	54.5	8.5	10.5	70	2	52	73
EIW4000K-06	3/4"	90	343	348	116.5	90	47	48	53.5	62	8.5	10.5	70	2	52	84
EIW5000K	3/4"-1"	90	343	348	116.5	90	47	48	53.5	62	8.5	10.5	70	2	52	84

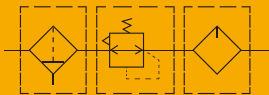
How to Order?

Series No.	Type Code	Body Size	Combination QTY	Port Size	Drain Type	Pressure Gauge Code	Bracket Code	Scale Unit	Filter Precision	Thread Type
E: Round gauge series			10: Two units (Regulator+Lubricator)		Blank: Manual drain type D: Auto Drain type	Blank: With pressure gauge N: No pressure gauge	Blank: With bracket J: No bracket	4: Mpa/Psi(Default) 5: Bar/Psi	Blank: 25 μ m 5M: 5 μ m Blank: 5 μ m (Default)	Blank: G P : PT T : NPT
C: Filter+regulator+ lubricator		10: 1000 body	00: Others	1000 M5: M5	4000 03: 3/8 "					
W: Filter+regulator		20: 2000 body		2000 01: 1/8 "	04: 1/2 "					
F: Filter		30: 3000 body		02: 1/4 "	06: 3/4 "					
R: Regulator		40: 4000 body		3000 02: 1/4 "	5000 06: 3/4 "					
L: Lubricator		50: 5000 body		03: 3/8 "	10: 1 "					

Order Example:

E series regulator, 2000 body size, 1/8 port size, with pressure gauge, with bracket, scale unit is Mpa/Psi, G thread, ERP code is: ER2000-01 4
Note:Manual drain for manual differential pressure in one design.

EC
F.R.L



Specifications

Model	EC1000	EC2000	EC3000	EC4000	EC5000
Proof pressure(MPa)	1.5				
Pressure range(MPa)	0.15~1.0				
Pressure adjusting range(MPa)	0.05~0.9				
Working temperature(°C)	-5~60				
Filter precision	40µm (5 µm is optional)				
Recommended oil	Turbine No.1 Oil ISOVG32				
Bowl material	Polycarbonate				
Bowl guard	None Available				
Pressure adjusting range(MPa)	0.15~0.85				
Valve type	With overflow				

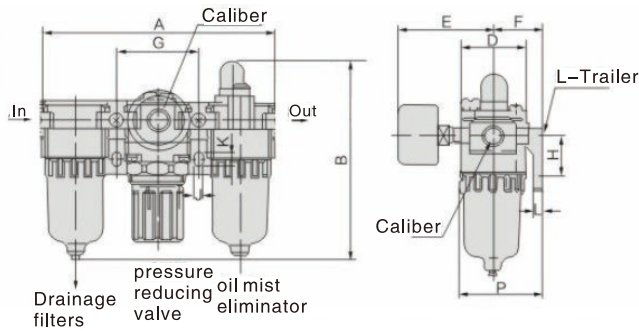
Model	Specifications							Accessories
	Assembly			* Rated flow (L/min)	** Port size (G)	Pressure gauge thread size (G)	Weight (kg)	
	Filter	Regulator	Lubricator					Bracket(Two)
EC1000-M5	EF1000	ER1000	EL1000	90	M5	1/16	0.26	Y10L
EC2000-01	EF2000	ER2000	EL2000	1200	1/8	1/8	0.65	Y20L
EC2000-02					1/4			
EC3000-02	EF3000	ER3000	EL3000	2100	1/4	1/8	1.15	Y30L
EC3000-03					3/8			
EC4000-03	EF4000	ER4000	EL4000	3400	3/8	1/4	2.15	Y40L
EC4000-04					1/2			
EC4000-06	EF4000-06	ER4000-06	EL4000-06	4500	3/4	1/4	2.56	Y50L
EC5000-06	EF5000	ER5000	EL5000	5000	3/4	1/4	4	Y60L
EC5000-10				5000	1			

* The above information is based on 8.0 Bar supply pressure and 6.3 Bar set pressure

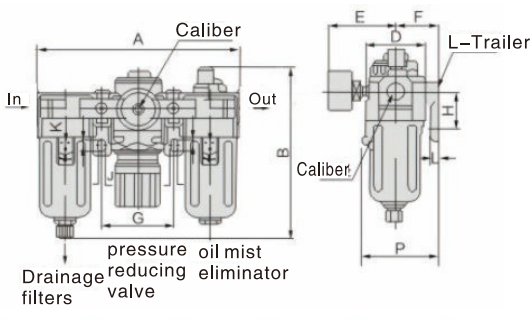
* NPT,PT port size is optional

Main Dimension

EC1000-EC2000

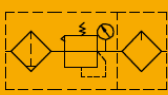


EC3000-EC5000



Model	Caliber	A	B	C	D	E	F	G	H	J	K	L	P	with auto-drainer
														B
EC1000-M5	M5	89	87	25	25	33.5	25.5	31	20	4.5	7	3	41	106
EC2000-01/02	1/8 • 1/4	140	124.5	39	40	53	30	50	24	5.5	8.5	5	50	146
EC3000-02/03	1/4 • 3/8	182	158	37	53	54.5	41	64	35	6	10	7	70	197
EC4000-03/04	3/8 • 1/2	238	195	43	70	60	49	84	40	9	13	7	86	213
EC4000-06	3/4	253	197	43	70	66	51	93	40	9	13	8	88	215
EC5000-06/10	3/4 • 1	300	272	47	90	70	68	105	50	12	16	10	-	290

EC
FR.L



Specifications

Model	EC1010	EC2010	EC3010	EC4010	EC5010
Proof pressure(MPa)	1.5				
Pressure range(MPa)	0.15~1.0				
Pressure adjusting range(MPa)	0.05~0.9				
Working temperature(°C)	-5~60				
Filter precision	40µm (5 µm is optional)				
Recommended oil	Turbine No.1 Oil ISOVG32				
Bowl material	Polycarbonate				
Bowl guard	None Available				
Pressure adjusting range(MPa)	0.15~0.85				
Valve type	With overflow				

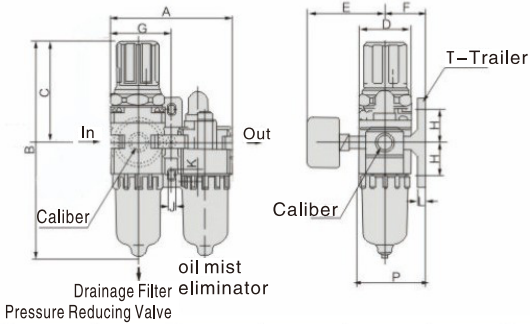
Model	Specifications						Accessories
	Assembly		* Rated flow (L/min)	** Port size (G)	Pressure gauge/thread size (G)	Weight (kg)	
	Filter with pressure	Lubricator					Bracket
EC1010-M5	EW1000	EL1000	90	M5	1/16	0.22	Y10T
EC2010-01	EW2000	EL2000	1180	1/8	1/8	0.55	Y20T
EC2010-02				1/4			
EC3010-02				1/4			
EC3010-03	EW3000	EL3000	2000	3/8	1/8	1	Y30T
EC4010-03				3/8			
EC4010-04				1/2			
EC4010-06	EW4000	EL4000	3500	3/4	1/4	2	Y40T
EC4010-06	EW4000-06	EL4000-06	3500	3/4	1/4	2.06	Y50T
EC5010-06	EW5000	EL5000	4000	3/4	1/4	3.85	Y60T
EC5010-10			4000	1			

* The above information is based on 8.0 Bar supply pressure and 6.3 Bar set pressure

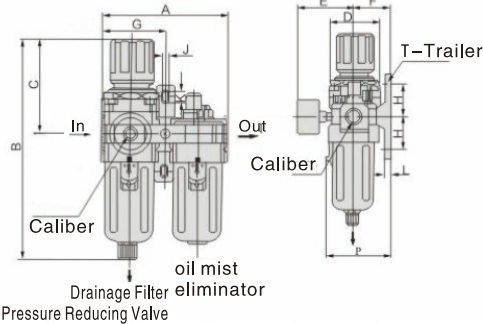
* NPT,PT port size is optional

Main Dimension

EC1010-EC2010



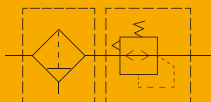
EC3010-EC5010



Model	Caliber	A	B	C	D	E	F	G	H	J	K	L	P	with auto-drainer
														B
EC1010-M5	M5	58	108	50.5	25	33.5	25.5	28	20	4.5	7	3	41	127
EC2010-01/02	1/8 • 1/4	90	160	74	40	53	30	45	24	5.5	8.5	5	50	181
EC3010-02/03	1/4 • 3/8	117	207	89	53	54.5	41	58.5	35	6	10	7	70	245
EC4010-03/04	3/8 • 1/2	155	259	109	70	60	49	77	40	9	13	7	86	276
EC4010-06	3/4	165	263	111	70	66	51	82	40	9	13	8	88	281
EC5010-06/10	3/4 • 1	196	339	117	90	70	68	97.5	50	12	16	10	-	356



EW
F&R



Specifications

Model	EW1000	EW2000	EW3000	EW4000	EW5000
Proof pressure(MPa)	1.5				
Pressure range(MPa)	0.15~1.0				
Pressure adjusting range(MPa)	0.05~0.9				
Filter precision	40μm(5μm 可选)				
Working temperature(℃)	-5~60				
Bowl material	Polycarbonate				
Bowl guard	None		Available		
Pressure adjusting range(MPa)	0.15~0.85				
Valve type	With overflow				

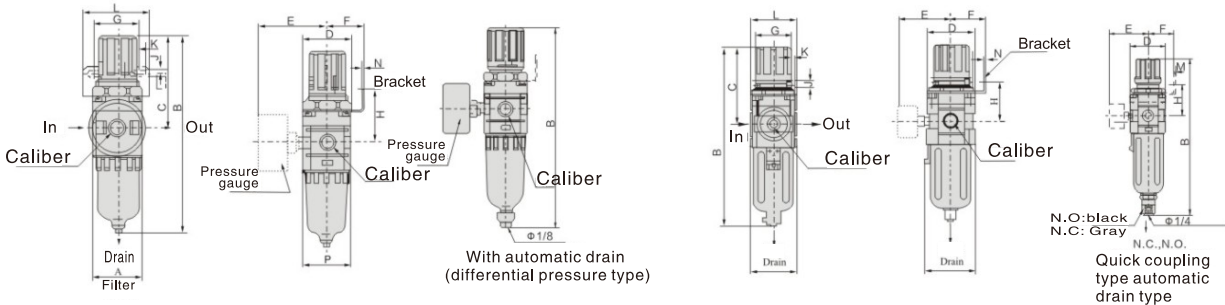
Model	Specifications				Accessories	Drain function	Auto drain model
	*Rated flow(L/min)	** Port size (G)	Pressure gauge/thread size	Weight (kg)	Bracket		
EW1000-M5	100	M5	1/16	0.09	B120		
EW2000-01	1200	1/8	1/8	0.35	B220		EW2000-01D
EW2000-02		1/4					EW2000-02D
EW3000-02	2400	1/4	1/8	0.65	B320		EW3000-02D
EW3000-03		3/8					EW3000-03D
EW4000-03	3500	3/8	1/4	1.3	B420	EW4000-03D	
EW4000-04		1/2				EW4000-04D	
EW4000-06	4500	3/4	1/4	1.38		EW4000-06D	
EW5000-06	5000	3/4				EW5000-06D	
EW5000-10	5000	1	1/4	2		EW5000-10D	

* The above information is based on 8.0 Bar supply pressure and 6.3 Bar set pressure * NPT,PT port size is optional

Main Dimension

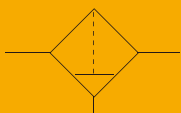
EW1000-EW2000

EW3000-EW5000



Model	Caliber	A	B	C	D	E	F	G	H	J	K	L	M	N	P	with auto-drainer
																B
EW1000-M5	M5x0.8	25	108	50.5	25	33.5	25	28	30	4.5	6.5	40	1.8	18.5	25	127
EW2000-01/02	1/8 · 1/4	40	160	74	40	53	33	33.5	43	5.5	15	55	1.8	33.5	40	181
EW3000-02/03	1/4 · 3/8	53	207	89	53	54.5	41	36	47	6.5	11.5	54	1.8	42.5	55	245
EW4000-03/04	3/8 · 1/2	70	259	109	70	60	49	53	52	8.5	10.5	70	1.8	52.5	72	276
EW4000-06	3/4	75	263	111	70	66	49	53	56	8.5	10.5	70	1.8	52.5	72	281
EW5000-06/10	3/4 · 1	90	339	117	90	70	49	53	62	8.5	10.5	70	1.8	52.5	-	356

EF
Filter



Specifications

Model	EF1000	EF2000	EF3000	EF4000	EF5000
Proof pressure(MPa)	1.5				
Pressure range(MPa)	0.15~1.0				
Working temperature(℃)	-5~60				
Filter precision	40μm (5 μm is optional)				
Bowl material	Polycarbonate				
Bowl guard	None		Available		
Pressure adjusting range(MPa)	0.15~1.0				

Model	Specifications				Accessories	Drain function	Auto drain model
	*Rated flow (L/min)	** Port size (G)	Bowl capacity (CM ³)	Weight (kg)	Bracket		
EF1000-M5	110	M5	4	0.07	—	Manual drain	
EF2000-01	2200	1/8	15	0.1	B240		EF2000-01D
EF2000-02		1/4				EF2000-02D	
EF3000-02	3000	1/4	20	0.3	B340	a. Zero pressure drain	EF3000-02D
EF3000-03		3/8					EF3000-03D
EF4000-03	4000	3/8	45	0.5	B440	b. Manual drain	EF4000-03D
EF4000-04		1/2					EF4000-04D
EF4000-06	6000	3/4	45	0.62	B540		EF4000-06D
EF5000-06	7000	3/4	130	1.15	B640		EF5000-06D
EF5000-10	7000	1					EF5000-10D

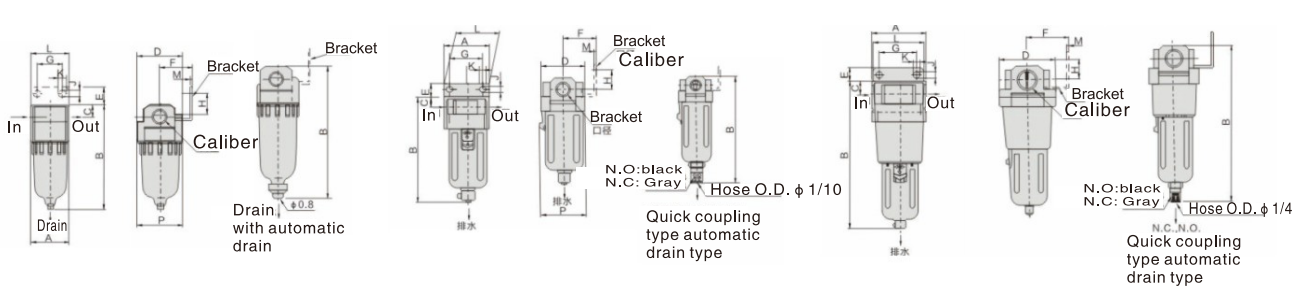
* The above information is based on 6.3 Bar supply pressure and 1.0 Bar set pressure * NPT,PT port size is optional

Main Dimension

EF1000-EF2000

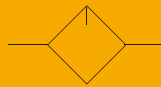
EF3000-EF4000

EF5000



Model	Caliber	A	B	C	D	E	F	G	H	J	K	L	M	P	with auto-drainer
															B
EF1000-M5	M5	25	68	7.5	25	-	-	-	-	-	-	-	-	25	87
EF2000-01/02	1/8 · 1/4	40	97.5	11	40	17	30	27	21	5.5	8.5	40	1.8	40	120
EF3000-02/03	1/4 · 3/8	53	134	14	53	16	41	40	24	6.5	8	53	1.8	55	173
EF4000-03/04	3/8 · 1/2	70	169	17	70	17	50	51.5	24	8.5	12	69	1.8	72	186
EF4000-06	3/4	75	173	20	70	-	-	-	-	-	-	-	-	72	191
EF5000-06/10	3/4 · 1	90	248	25	90	-	-	-	-	-	-	-	-	-	266

EL
Lubricator



Specifications

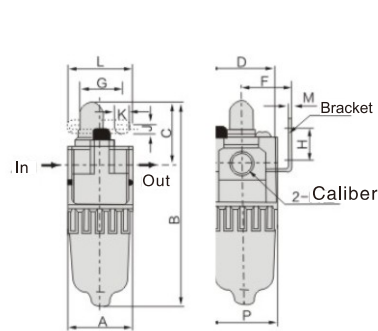
Model	EL1000	EL2000	EL3000	EL4000	EL5000
Proof pressure(MPa)	1.5				
Pressure range(MPa)	0.05~1.0				
Working temperature(°C)	-5~60				
Recommended oil	Turbine No.1 Oil ISOVG32				
Bowl material	Polycarbonate				
Bowl guard	None Available				

Model	Specifications					Accessories
	Minimal flow of oil drop (L/min)	*Rated flow (L/min)	** Port size (G)	Bowl capacity (CM³)	Weight (kg)	Bracket
EL1000-M5	4	95	M5	7	0.07	-
EL2000-01	15	2400	1/8	25	0.15	B240
EL2000-02			1/4			
EL3000-02	30	2800	1/4	50	0.3	B340
EL3000-03	40		3/8			
EL4000-03	40	4000	3/8	130	0.55	B440
EL4000-04	50		1/2			
EL4000-06	50	6300	3/4	130	0.62	B540
EL5000-06	190	7000	3/4	130	1.15	B640
EL5000-10		7000	1			

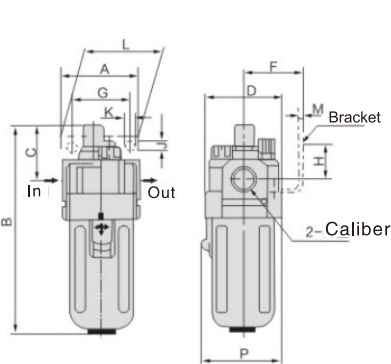
- * The above information is based on 6.3 Bar supply pressure,the flow of oil drop is 2-3 drops/min,the temperature of Turbine No.1 oil is 20° C
- * The above information is based on 6.3 Bar supply pressure and 1.0 Bar step down
- * NPT,PT port size is optional

Main Dimension

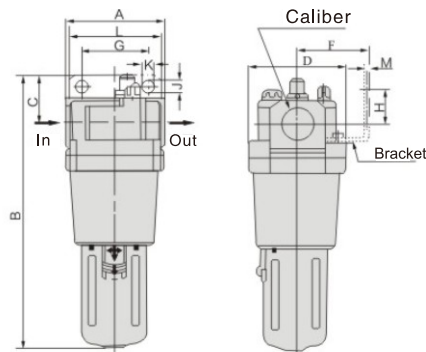
EL1000-EL2000



EL3000-EL4000



EL5000



Model	Caliber	A	B	C	D	E	F	G	H	J	K	L	M	N
EL1000-M5	M5	25	77	25	25	-	-	-	-	-	-	-	-	25
EL2000-01/02	1/8 · 1/4	40	118	39	40	12	30	27	21.24	5.5	8.5	40	1.8	40
EL3000-02/03	1/4 · 3/8	53	141	37	53	14	41	40	24	6.5	8	53	1.8	55
EL4000-03/04	3/8 · 1/2	70	177	43	70	17	50	51.5	24	8.5	12	69	1.8	72
EL4000-06	3/4	75	180	43	70	-	-	-	-	-	-	-	-	72
EL5000-06/10	3/4 · 1	90	255	47	90	-	-	-	-	-	-	-	-	-

ER
Regulator



Specifications

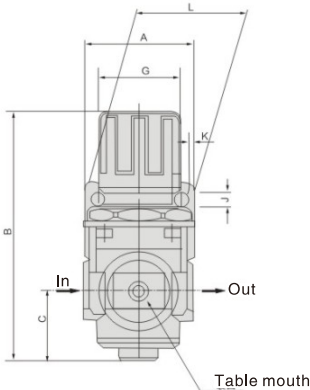
Model	ER1000	ER2000	ER3000	ER4000	ER5000
Proof pressure(MPa)	1.5				
Max. working pressure(MPa)	1.0				
Pressure adjusting range(MPa)	0.05~0.9				
Working temperature(°C)	-5~60				
Valve type	With overflow				

Model	Specifications				Accessories
	*Rated flow(L/min)	** Port size (G)	size (G)	Weight (kg)	Bracket
ER1000-M5	100	M5	1/16	0.08	B120
ER2000-01	1400	1/8	1/8	0.25	B220
ER2000-02		1/4			
ER3000-02	2800	1/4	1/8	0.5	B320
ER3000-03		3/8			
ER4000-03	3500	3/8	1/4	0.95	B420
ER4000-04		1/2			
ER4000-06	6000	3/4	1/4	1.06	
ER5000-06	8000	3/4	1/4	1.15	
ER5000-10	8000	1			

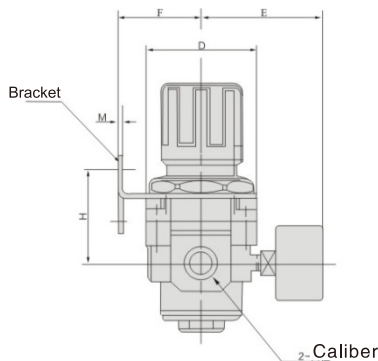
- * The above information is based on 8.0 Bar supply pressure and 6.3 Bar set pressure
- * NPT,PT port size is optional

Main Dimension

ER1000-ER2000

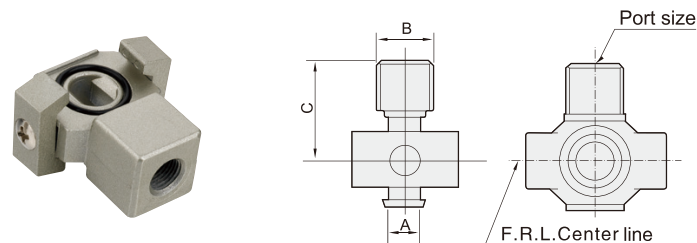


ER3000-ER4000



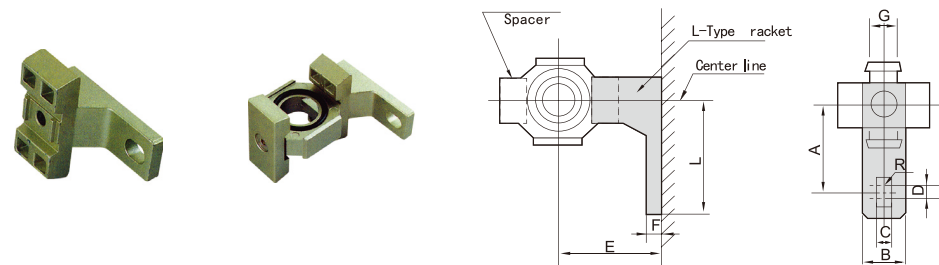
Model	Caliber	A	B	C	D	E	F	G	H	J	K	L	M	N
ER1000-M5	M5	25	58	12	25	33.5	25	28	27.5	4.5	6.5	40	1.8	18.5
ER2000-01/02	1/8 · 1/4	40	92	17	40	53	33	33.5	43	5.5	15	55	1.8	33.5
ER3000-02/03	1/4 · 3/8	53	123.5	35	53	54.5	41	36	46	6.5	11.5	54	1.8	42.5
ER4000-03/04	3/8 · 1/2	70	145.5	37.5	70	60	49	53	52	8.5	10.5	70	1.8	52.5
ER4000-06	3/4	75	150	38.5	70	66	49	53	56	8.5	10.5	70	1.8	52.5
ER5000-06/10	3/4 · 1	90	165	48	90	70	49	53	62	8.5	10.5	70	1.8	52.5

Accessory



T-Type Spacer

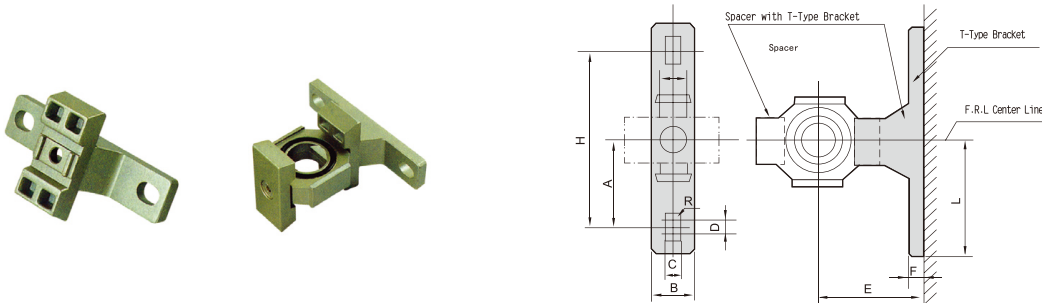
Model	*Port Size (G)	A	B	C	Applicable Model
Y21-01	G1/8	10	19	29	EC2000
Y21-02	G1/4				
Y31-01	G1/8				
Y31-02	G1/4	11	19	33	EC3000
Y41-02	G1/4				
Y41-03	G3/8				
Y61-03	G3/8	15	30	50.5	EC5000
Y61-04	G1/2				



L-Type Bracket Spacer with L-Type Bracket

L-Type Bracket	Spacer with L-Type Bracket	A	B	C	D	E	F	G	R	L	Applicable Model
B110L	Y10L	20	12	4.5	3	25	5	8	2.25	27	EC1000
B210L	Y20L	24	15	5.5	3	30	5	10	2.75	33	EC2000
B310L	Y30L	35	16	7	4	41	7	11	3.5	45	EC2500-EC3000
B410L	Y40L	40	22	9	4	50	7	14	4.5	50	EC4000
B510L	Y50L	40	22	9	4	50	7	14	4.5	50	EC4000-06
B610L	Y60L	50	23	12	4	69.8	10.5	15	6	63	EC5000
IB210L	IY20L	24	15	5.5	3	30	5	10	2.75	33	EIC2000
ILB310L	ILY30L	35	16	7	4	41	7	11	3.5	45	Connect EIC3000 filter and regulator
IRB310L	IRY30L	35	16	7	4	41	7	11	3.5	45	Connect EIC3000 regulator and lubricator

*EIC4000/5000 adopts EC series corresponding model.

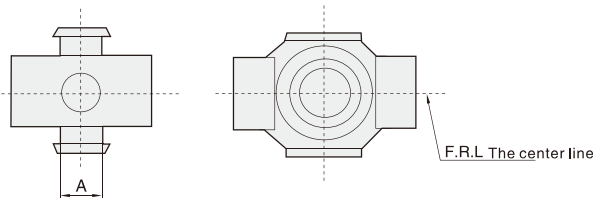


T-Type Bracket Spacer with T-Type Bracket

T-Type Bracket	Spacer with T-Type Bracket	A	B	C	D	E	F	G	H	R	L	Applicable Model
B110T	Y10T	20	12	4.5	3	25	5	8	40	2.25	27	EC1010
B210T	Y20T	24	15	5.5	3	30	5	10	48	2.75	33	EC2010
B310T	Y30T	35	16	7	4	41	7	11	70	3.5	45	EC3010
B410T	Y40T	40	22	9	4	50	7	14	80	4.5	50	EC4010
B510T	Y50T	40	22	9	4	50	7	14	80	4.5	50	EC4010-06
B610T	Y60T	50	23	12	4	69.8	10.5	15	100	6	63	EC5010
IB210T	IY20T	24	15	5.5	3	30	5	10	48	2.75	33	EIC2010
IB310T	IY30T	35	16	7	4	41	7	11	70	3.5	45	EIC3010

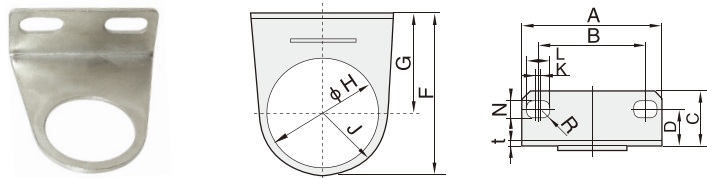
*EIC4000/5000 adopts EC series corresponding model.

Y-Type Spacer



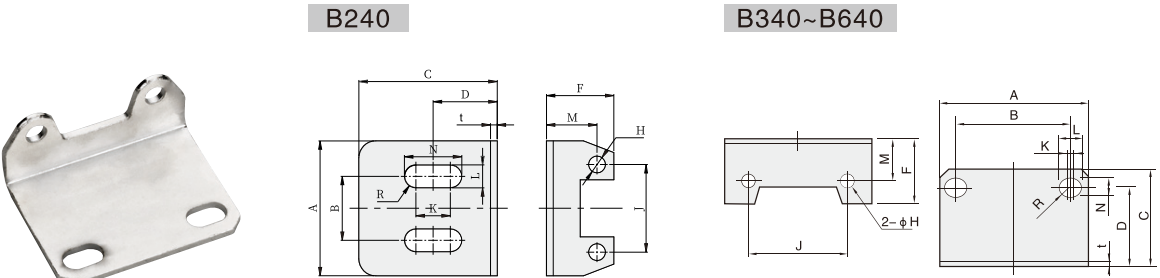
Model	A	Applicable model
Y10	8	EC1000
Y20	10	EC2000
Y30	11	EC2500-3000
Y40	14	EC4000
Y50	14	EC4000-06
Y60	15	EC5000

20-Type Bracket



Model	A	B	C	D	F	G	φH	J	K	L	N	R	t	Applicable model
B120	40	28	17	11	37.8	25	20	12.3	2	6.5	4.5	2.25	2	ER/EW 1000
B220	55	33.5	24	18	50.5	30.5	33	20	10	15	5.4	2.7	2	ER/EW 2000, ER2500
B320	53	40	22	14	64	39	42	25	1.5	8	6.5	3.25	2	ER/EW 3000
B420	70	53.5	27	18	78.5	48.2	52	30	2	10.5	8.5	4.25	2	ER4000 5000 EW4000 5000

40-Type Bracket



Model	A	B	C	D	F	φH	J	K	L	M	N	R	t	Fixing screw	Applicable model
B240	40	19	41	19	20	5	26	10.2	6.8	15	17	3.4	2	M4x8	EF/EL2000
B340	53	40	38	31.2	23	4.5	35	1.5	8	19	6.5	3.25	2	M4x8	EF/EL3000
B440	70	54	49	40	30	5.5	47	2	10.5	18.4	8.5	4.25	2	M5X12	EF/EL4000
B540	70	54	49	40	30	5.5	47	2	10.5	21.5	8.5	4.25	2	M5X12	EF/EL4000-06
B640	90	66	64	52	43	6.5	60	2	13	29	11	5.5	2	M5X12	EF/EL5000

HED402

Auto Drain



HED402 Auto Drain

Purpose

This product often applies to the low places of auto-remove piping, frozen type air drying machine,oil separator,air storage tank and the bottom of various air filters. It can be installed in the places which are not convenient for manual discharge of sewage,such as high,low,narrow places. Especially,it can be installed in the places with large consumption of air or frequent drain times,to prevent the compressed air to be re-polluted by condensed water resulting from the neglect of maual drain.

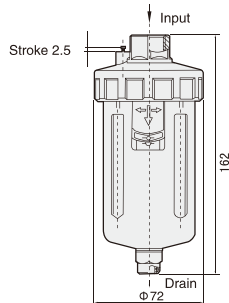
Features

Auto drain/ Zero pressure drain/ The water cup with metal bowl guard.

Attention

The drainer should be installed vertically and the port should face down,when using.

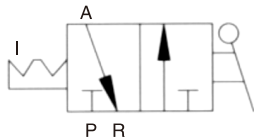
Main Dimension



Model	HED402-02	HED402-03	HED402-04
Working medium	Compressed air		
Working pressure (MPa)	0.15~1.0		
Guaranteed pressure resistance (MPa)	1.5		
Working temperature (°C)	5~60		
Port size	G1/4	G3/8	G1/2
Drain port size	G1/8		
Drain status	Normal open		

EVSH

Pressure Relief Valve (3/2)



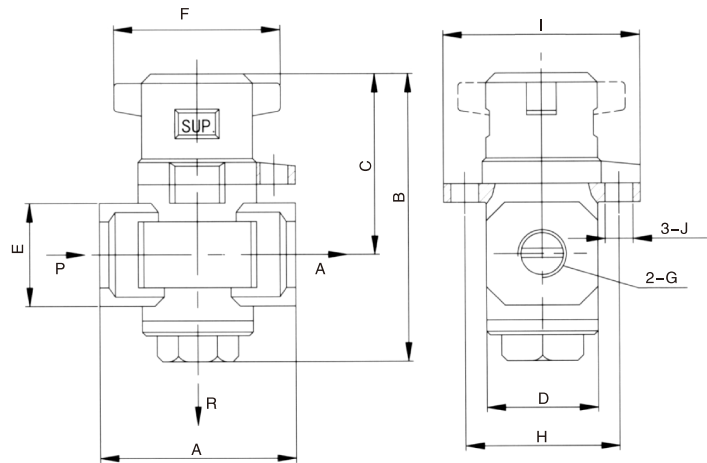
How to Order?

Series No.	Body Size	Port Size	Thread Type
EVSH Series	2000: 2000 Body 3000: 3000 Body 4000: 4000 Body 5000: 5000 Body	01: 1/8" 02: 1/4" 03: 3/8" 04: 1/2" 06: 3/4" 10: 1"	Blank: G P: PT T: NPT

Order Example:

EVSH series 3/2 way check valve, 2000 body size, 1/4" port size, PT thread, ERP code is: EVSH2000-02-P

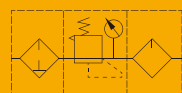
Main Dimension



Model	G	Exhaust port	A	B	C	D	E	F	H	I	J
EVSH2000-01	1/8	1/8	40	59	39	28	22	40	32	41	Φ6
EVSH2000-02	1/4	1/8	40	59	39	28	22	40	32	41	Φ6
EVSH3000-02	1/4	1/4	53	78	49	30	28	45	41.5	53	Φ7.5
EVSH3000-03	3/8	1/4	53	78	49	30	28	45	41.5	53	Φ7.5
EVSH4000-03	3/8	3/8	70	84	52	36	36	45	41.5	53	Φ7.5
EVSH4000-04	1/2	3/8	70	84	52	36	36	45	41.5	53	Φ7.5
EVSH5000-10	1	1/2	90	136	72	54	48	68	77	90	Φ8.5

AEC/BEC

F.R.L



How to Order?

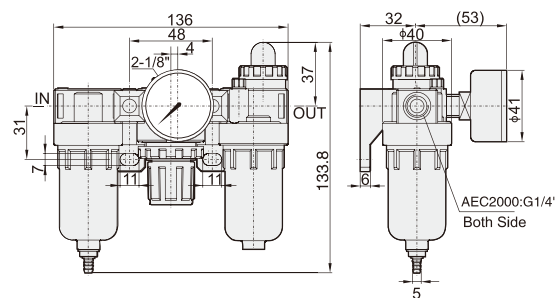
Series No.	Type Code	Body Size	Pressure Gauge Code	Bracket Code	—	Scale Unit	—	Thread Type
AE: Small body size without bowl guard	C: Filter+regulator+lubricator	2000: 1/4"	Blank: With pressure gauge N: No pressure gauge	Blank: With bracket J: No bracket	4: Mpa/Psi(Default) 5: Bar/Psi			Blank: G P: PT T: NPT
BE: Larger body size with bowl guard		2000: 1/4" 3000: 3/8" 4000: 1/2"						

Order Example:

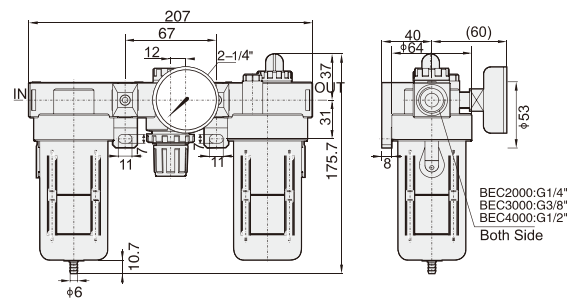
AE series three units,2000 body size,with quage,with bracket,Mpa/Psi pressure scale unit,PT thread,ERP code is:AEC2000-4-P

○ Main Dimension

AEC2000



BEC 2000 – 4000

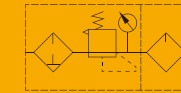


Specifications

Model		AEC2000	BEC2000	BEC3000	BEC4000
Working medium		Air			
Port size		G1/4	G1/4	G3/8	G1/2
Filter precision		40μm(5, 40 μmis optional)			
Adjusting pressure range (MPa)		0.15~0.85			
Max. adjusting pressure (MPa)		1.0			
Guaranteed pressure (MPa)		1.5			
Working temperature(°C)		5~60			
Filter bowl capacity (CC)		15	60		
Lubricator bowl capacity (CC)		25	90		
Recommend oil		ISO VG32 or equivalent oil			
Weight (g)		700	900		
Components	Filter	AEF2000	BEF2000	BEF3000	BEF4000
	Regulator	AER2000	BER2000	BER3000	BER4000
	Lubricator	AEL2000	BEL2000	BEL3000	BEL4000

AEFC/BEFC

FR.L



© How to Order?

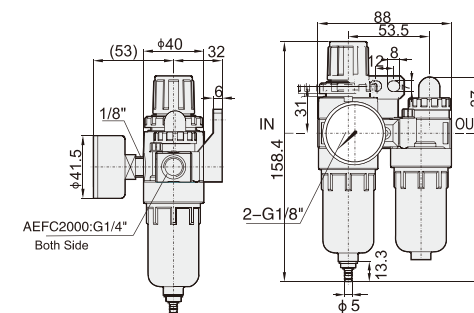
Series No.	Type Code	Body Size	Pressure Gauge Code	Bracket Code	—	Scale Unit	—	Thread Type
AE: Small body size without bowl guard	FC: Filter & Regulator +lubricator		Blank: With pressure gauge N: Without pressure gauge	Blank: With bracket J: Without bracket		4: Mpa/Psi(Default) 5: Bar/Psi		Blank: G P: PT T: NPT
BE: Larger body size with bowl guard		2000: 1/4" 2000: 1/4" 3000: 3/8" 4000: 1/2"						

Order Example:

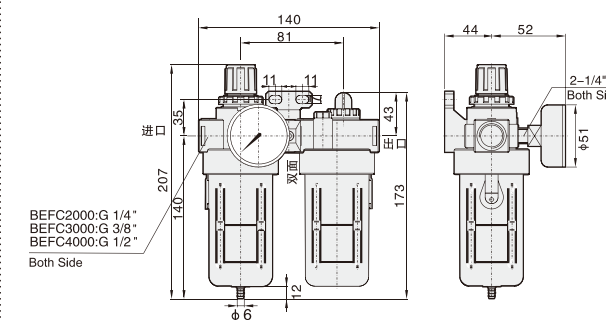
AE series two units,2000 body size,with guage,with bracket,Mpa/Psi pressure scale unit,PT thread, ERP code is:AEFC2000-4-P

◎ Main Dimension

AEFC2000



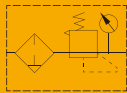
BEFC2000-4000



© Specifications

Model		AEFC2000	BEFC2000	BEFC3000	BEFC4000
Working medium		Air			
Port size		G1/4	G1/4	G3/8	G1/2
Filter precision		40µm (5, 40 µm is optional)			
Adjusting pressure range (MPa)		0.15~0.85			
Max. adjusting pressure (MPa)		1.0			
Guaranteed pressure (MPa)		1.5			
Working temperature(°C)		5~60			
Filter bowl capacity (CC)		15	60		
Lubricator bowl capacity (CC)		25	90		
Recommend oil		ISO VG32 or equivalent oil			
Weight (g)		500	700		
Components	Filter.Regulator	AEFR2000	BEFR2000	BEFR3000	BEFR4000
	Lubricator	AEL2000	BEL2000	BEL3000	BEL4000

AEFR/BEFR
F&R

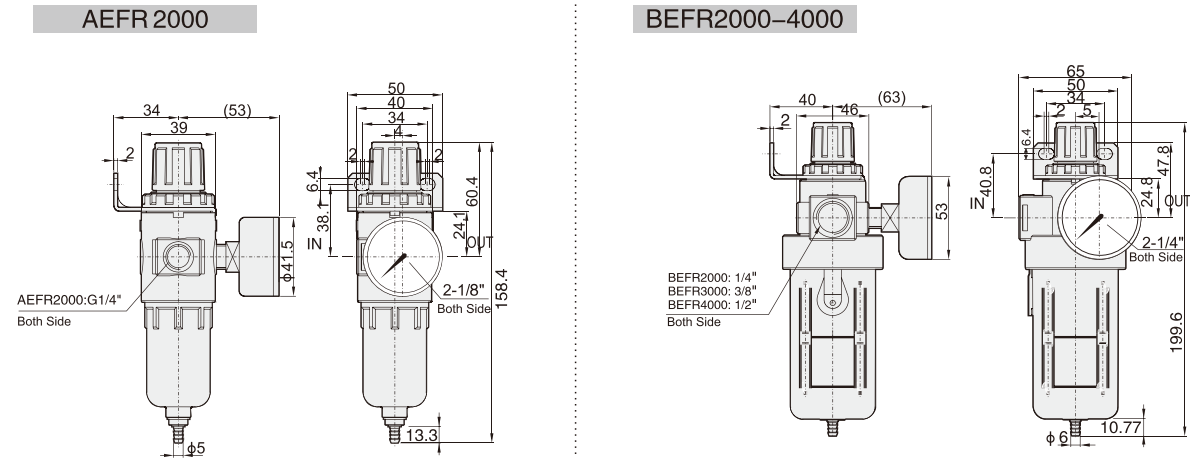


How to Order?

Series No.	Type Code	Body Size	Pressure Gauge Code	Bracket Code	Scale Unit	Thread Type
AE: Small body size without bowl guard	FR: Regulator+Filter	2000: 1/4"	Blank: With pressure gauge	Blank: With bracket	4: Mpa/Psi(Default)	Blank: G
BE: Larger body size with bowl guard		2000: 1/4"	N: No pressure gauge	J: No bracket	5: Bar/Psi	P: PT
		3000: 3/8"				T: NPT
		4000: 1/2"				

Order Example:
AE series Filter+regulators, 1/4" body size, Mpa/Psi pressure scale unit, PT thread, ERP code is: AEFR2000-4-P

Main Dimension



Specifications

Model	AEFR2000	BEFR2000	BEFR3000	BEFR4000
Working medium	Air			
Port size	G1/4	G1/4	G3/8	G1/2
Filter precision	40 μm (5, 50 μm is optional)			
Adjusting pressure range (MPa)	0.15~0.85			
Max. adjusting pressure (MPa)	1.0			
Guaranteed. pressure (MPa)	1.5			
Working temperature(°C)	5~60			
Filter bowl capacity (CC)	15	60		
Weight (g)	260	400		

AEF/BEF
Filter

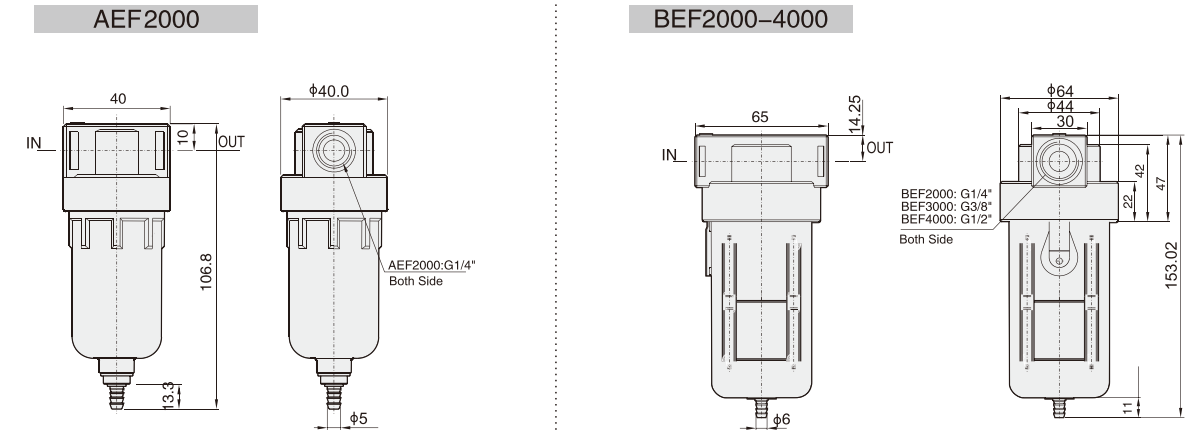


How to Order?

Series No.	Type Code	Body Size	Bracket Code	Thread Type
AE: Small body size without bowl guard	F: Filter	2000: 1/4"	Blank: With bracket	Blank: G
BE: Larger body size with bowl guard		2000: 1/4"	J: No bracket	P: PT
		3000: 3/8"		T: NPT
		4000: 1/2"		

Order Example:
AE series filter, 1/4" body size, with bracket, PT thread, ERP code is: AEF2000-P

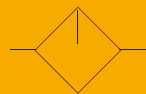
Main Dimension



Specifications

Model	AEF2000	BEF2000	BEF3000	BEF4000
Working medium	Air			
Port size	G1/4	G1/4	G3/8	G1/2
Filter precision	40 μm (5, 50 μm is optional)			
Working pressure (MPa)	0.15~1.0			
Guaranteed. pressure (MPa)	1.5			
Working temperature(°C)	5~60			
Filter bowl capacity (CC)	15	60		
Weight (g)	140	330		

AEL/BEL
Lubricator



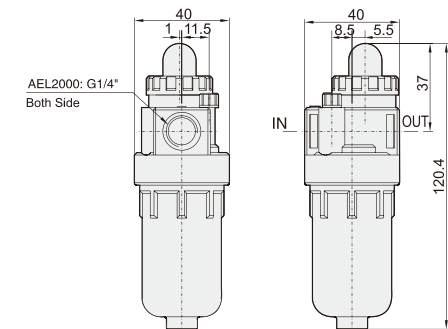
How to Order?

Series No.	Type Code	Body Size	Bracket Code	Thread Type
AE: Small body size without bowl guard	L: Lubricator	2000: 1/4" 2000: 1/4" 3000: 3/8" 4000: 1/2"	Blank: With bracket J: No bracket	Blank: G P: PT T: NPT
BE: Larger body size with bowl guard				

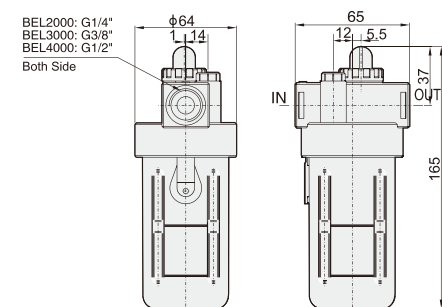
Order Example:
AE series Lubricator, 1/4" body size, with bracket, PT thread, ERP code is: AEL 2000-P

Main Dimension

AEL 2000



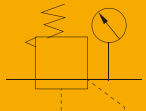
BEL2000-4000



Specifications

Model	AEL2000	BEL2000	BEL3000	BEL4000
Working medium	Air			
Port size	G1/4	G1/4	G3/8	G1/2
Guaranteed, pressure resistance(MPa)	1.5			
Working temperature(°C)	5~60			
Lubricator bowl capacity	25CC	90CC		
Recommend oil	ISO VG32 or equivalent oil			
Weight (g)	170g	250g		

AER/BER
Regulator



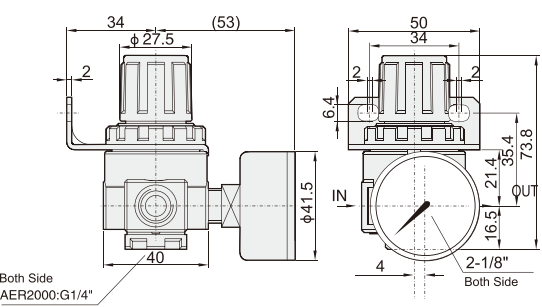
How to Order?

Series No.	Type Code	Body Size	Pressure Gauge Code	Bracket Code	Scale Unit	Thread Type
AE: Small body size without bowl guard	R: Regulator	2000: 1/4" 2000: 1/4" 3000: 3/8" 4000: 1/2"	Blank: With pressure gauge N: No pressure gauge	Blank: With bracket J: No bracket	4: Mpa/Psi(Default) 5: Bar/Psi	Blank: G P: PT T: NPT
BE: Larger body size with bowl guard						

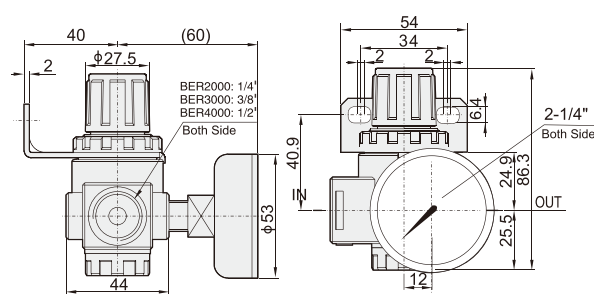
Order Example:
AE series Regulator, 1/4" body size, Mpa/Psi pressure scale unit, PT thread, ERP code is: AEC2000-4-P

Main Dimension

AER2000



BER2000-4000



Specifications

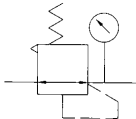
Model	AER2000	BER2000	BER3000	BER4000
Working medium	Air			
Port size	G1/4	G1/4	G3/8	G1/2
Adjusting pressure range(MPa)	0.05-0.85			
Max. adjusting pressure (MPa)	1.0			
Guaranteed pressure (MPa)	1.5			
Working temperature(°C)	5-60			
Weight (g)	200	230		

ERH

High Pressure Reducing Valve



- Product Features
- Use pressure up to 3.5MPa, reliable pressure regulation and stable pressure;
 - 20/30/40/50 series are available;
 - Connection caliber 1/4" 3/8" 1/2" 3/4" 1"。



How to Order?

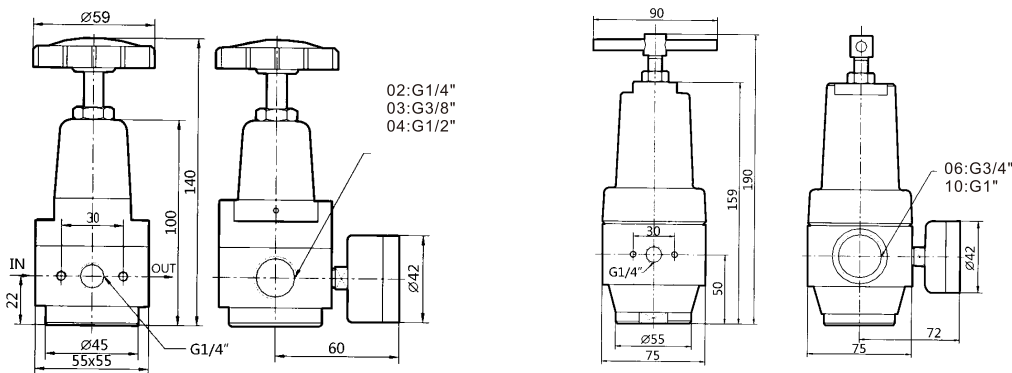
ERH	Valve size	-	Receiver caliber
ERH Series	20: 2000 Valve body		02: G1/4 "
	30: 3000 Valve body		03: G3/8 "
	40: 4000 Valve body		04: G1/2 "
	50: 5000 Valve body		06: G3/4 "
			10: G1 "

Orde Example: ERH Series, 4000 Valve body, Receiver caliber G1/2 " , The ERH Code ERH40-04.

Standard

Model	ERH-02	ERH-03	ERH-04	ERH-06	ERH-10
Fluid to be used	air				
Tube caliber	G1/4	G3/8	G1/2	G3/4	G1
Regulating pressure range	0.05 – 3.5MPa				
Maximum input pressure	4MPa				
Operating temperature range	-25 – +80℃				

External Dimensions



EFRH

High Pressure Filtering Pressure Reducing Valve



- Product Features
- Good filtration effect;
 - Use pressure up to 3.5MPa, reliable pressure regulation and pressure stability;
 - 20/30/40/50 series are available;
 - Connection caliber 1/4" 3/8" 1/2" 3/4" 1"。

How to Order?

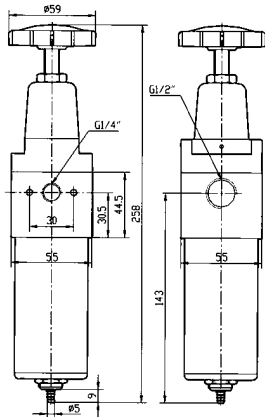
EFRH	Valve size	-	Receiver caliber
EFRH Series	20: 2000 Valve body		02: G1/4 "
	30: 3000 Valve body		03: G3/8 "
	40: 4000 Valve body		04: G1/2 "
	50: 5000 Valve body		06: G3/4 "
			10: G1 "

Orde Example: EFRH Series, 4000 Valve body, Receiver caliber G1/2 " , The EFRH Code EFRH40-04

Standard

Model	EFRH-02	EFRH-03	EFRH-04	EFRH-06	EFRH-10
Fluid to be used	air				
Tube caliber	G1/4	G3/8	G1/2	G3/4	G1
Filtration accuracy	40 μ m				
Regulating pressure range	0.15 – 3.5MPa				
Maximum input pressure	4MPa				
Operating temperature range	5 – +80℃				

External Dimensions

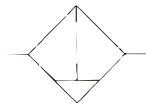


ELH
High Pressure Filter



Product Features

- Good filtration effect;
- Use pressure up to 3.5MPa;
- 20/30/40/50 series are available;
- Connection caliber 1/4" 3/8" 1/2" 3/4" 1"。



How to Order?

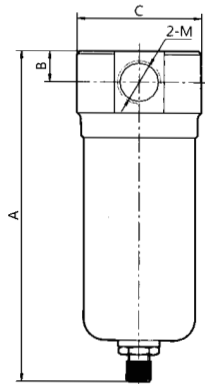
ERH	Valve size	Receiver caliber
ELH Series	20: 2000 Valve body	02: G1/4 "
	30: 3000 Valve body	03: G3/8 "
	40: 4000 Valve body	04: G1/2 "
	50: 5000 Valve body	06: G3/4 "
		10: G1 "

Orde Example: ELH Series, 4000 Valve body, Receiver caliber G1/2 " , The ELH Code ELH40-04

Standard

Model	ELH-02	ELH-03	ELH-04	ELH-06	ELH-10
Fluid to be used	air				
Tube caliber	G1/4	G3/8	G1/2	G3/4	G1
Filtration accuracy	40 μ m				
Regulating pressure range	0.15 ~ 3.5MPa				
Maximum input pressure	4MPa				
Operating temperature range	5 ~ +80℃				

External Dimensions



Model	A	B	C	M
8	160	15	60	1/4"
10	160	15	60	3/8"
15	160	15	60	1/2"
20	215	75	90	3/4"
25	215	75	90	1"

PS80 Series
Digital Display
Press Switch



PS40 Series
Digital Display
Press Switch



PS43 Series
Digital Display
Press Switch



PS42 Series
Digital Display
Press Switch

