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Nanjing Soliner Hydraulic Technology Co., Ltd.



FILTER, HYDRAULIC SPARE PARTS

CONSTRUCTION MACHINERY

www.solinerglobal.com

ABOUT SOLINER

Nanjing Soliner Hydraulic Technology CO., Ltd., founded in 2003, is a leading manufacturer of hydraulic components including filters, sensors, etc., and wind power lubrication systems. The company's products are widely applied in construction machinery, metallurgy, aerospace, wind power, machine tools, petroleum, chemical, shipbuilding, and other industries. As a customer-oriented company, we strive to provide our customers with premium products and services. With complete R&D capabilities and advanced production equipment, we are committed to innovation and excellence.



HONOURS & CERTIFICATION

Soliner was rated as a "National Little Giant Enterprise Specializing in Specialized, Sophisticated, Unique and New Products" in 2024. It is a member of the American Engineering Equipment Manufacturers Association. To date, it has obtained more than 100 national authorized patents, including 21 invention patents and 53 utility model patents. The company has two enterprise standards filed with the Technical Supervision Bureau. At the same time, the company has been identified as a "High-tech Enterprise", "Nanjing Gazelle Enterprise", and New Little Giant Enterprise". Several products have been recognized as "Jiangsu High-tech Products", and have also obtained patent authorizations from Germany and the United States.

21 invention patents
53 utility model patents



ADVANCED MACHINING CENTER

Soliner, as a manufacturing enterprise, has a total of 35,000 square meters of production workshops, including machining workshops, temperature-controlled solenoid valve workshops, temperature-controlled honing workshops, sheet metal workshops, filter workshops, and hydraulic assembly workshops. The company possesses a variety of professional intelligent production equipment, such as Mazak flexible production lines, Japanese intelligent processing unit islands, German-made original forming grinding machines, German-made original double-end face grinding machines, German Roboski filter production lines, intelligent storage equipment, and so on.



Company Profile

www.solinerglobal.com



TECHNICAL TESTING CENTER

Soliner has a total of 3200 square meters of various types of laboratories, including comprehensive performance of wind lubrication systems, high and low temperature testing, hydraulic filtration, heat transfer performance of coolers, and comprehensive performance of structures, among other professional laboratories. At the same time, it also has a large number of outstanding technical personnel and a comprehensive product development system.



Standardized filtration technology testing center, the cleanliness of which is up to 10000 standard, equipped with advanced contamination analyzer, and has undertaken the company's scientific research, production, filtration technology inspection and testing. Seven test items for evaluating filtration performance of hydraulic filter can be completed by the center.

ISO16889 Hydraulic fluid power - filters - Multi-pass method for evaluating filtration performance of a filter element.

ISO2941 Hydraulic fluid power-Filter elements Verification of burst resistance.

ISO2942 Hydraulic fluid power - Filter elements Verification of fabrication integrity.

ISO2943 Hydraulic fluid power-filter elements Verification of material compatibility with fluids.

ISO3723 Hydraulic fluid power - Filter elements Method for end load test.

ISO3724 Hydraulic fluid power - Filter elements Verification of fluid fatigue.

ISO3968 Hydraulic fluid power-Filters-Evaluation of differential pressure versus flow characteristics.



PRODUCT OVERVIEW



Oil Suction Filter

Installed in the tank, oil pump suction plays a filtering role, to protect the oil pump and other hydraulic components. Suction filter is used for protecting the oil pump from being polluted by larger particle contaminants. Generally installed in front of suction pipe, and must have enough small pressure drop to prevent the pump from sucking without anything. Generally choose filter paper or wire mesh as filter media.

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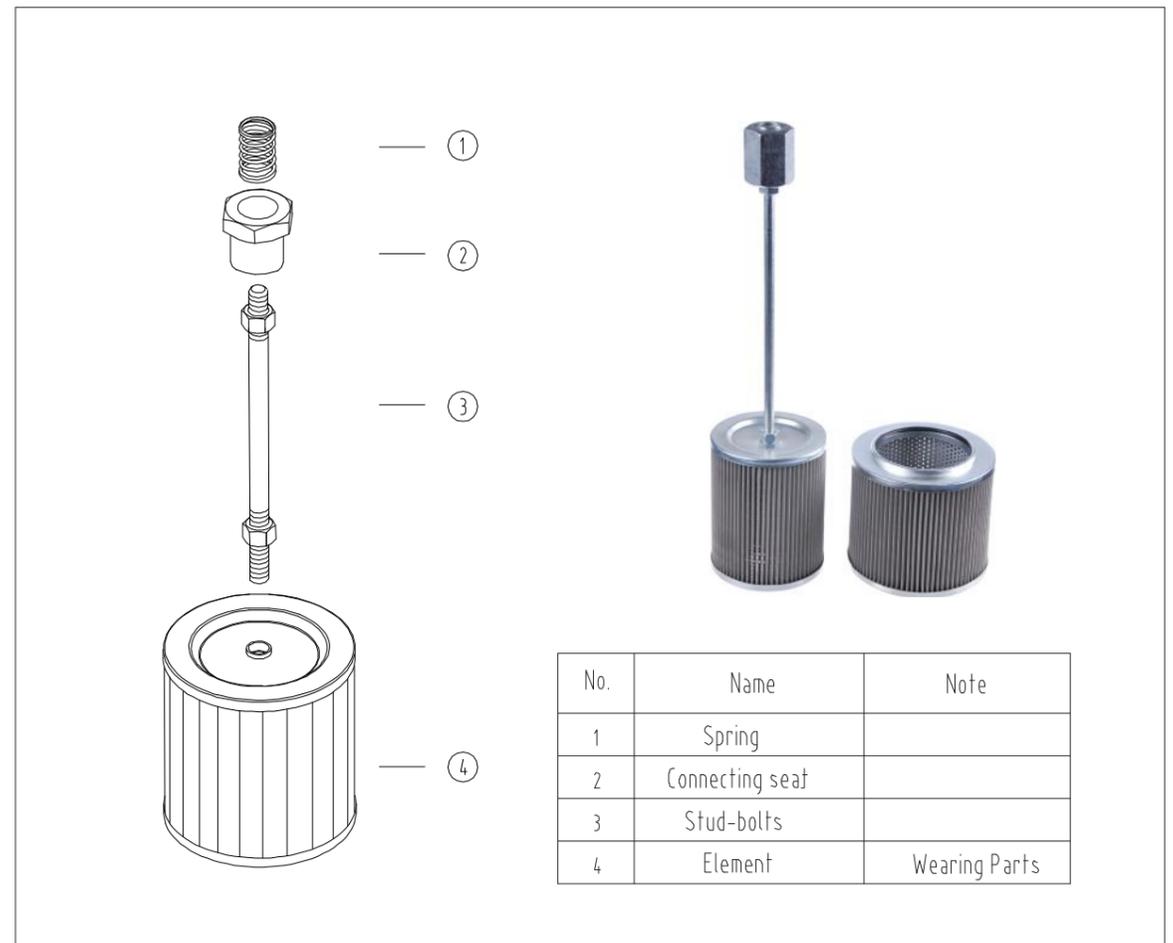
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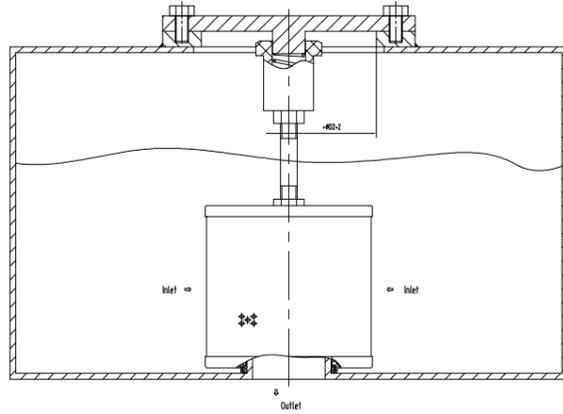
1、 EF Series Suction Filter

SPECIFICATIONS

Type of Construction: Inside Tank Mounted
Range Flow: 350~1400L/min
Operating Temp: -40°C~+120°C
Filter Media: Wire Mesh
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.



MOUNTING INSTRUCTION

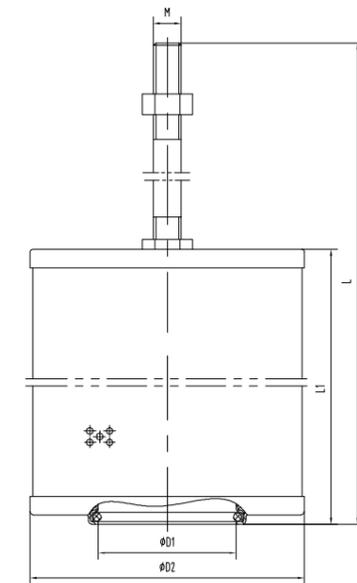
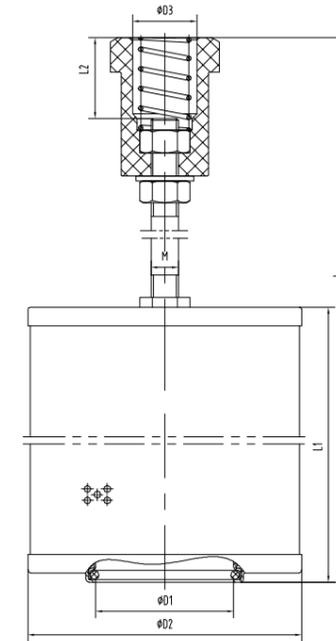


TECHNICAL PARAMETER

Model	Flow Rate (L/min)	Filtration Accuracy (μm)	Model of element
EF107D	350	180	EF107DX
EF107G	350	180	EF107DX
EF107P	400	180	EF107PX
EF107PA	350	180	EF107DX
EF107PB	400	180	EF107PBX
EF-077	800	170	EF-077X
EF-078L	1400	170	EF-078LX
EF-078L2	1400	170	EF-078LX
EF-080B	400	80	EF-080BX
EF-132	1400	170	EF-132X
EF-200A	480	180	EF-200AX
EF-200B	680	105	EF-200BX
EF-200B2	1200	180	EF-200B2X
EF-200B3	1000	105	EF-200B3X
EF-081C	800	170	EF-081X
EF-082A	800	180	EF-082X
EF-084	800	105	EF-084X
SLZS0350A × 105	350	105	SLZS0350Ax105X

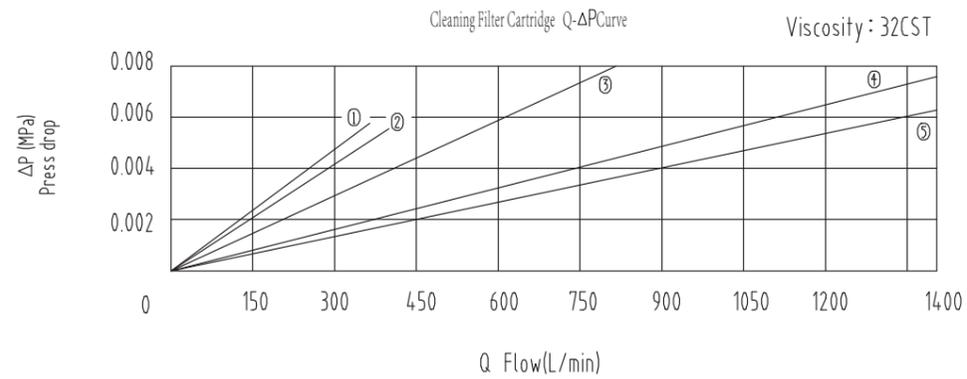
MOUNTING DIMENSION

Model	Size(mm)						M
	D1	D2	D3	L	L1	L2	
EF107D	60	120	24	510	152	35	M12
EF107G	60	120	24	710	152	35	M12
EF107P	60	120	24	775	200	35	M12
EF107PA	60	120	24	775	152	35	M12
EF107PB	70.5	120	24	710	200	35	M12
EF-077	100.5	150	28	760	98	30	M10
EF-078L	114	180	30	740	200	30	M12
EF-078L2	114	180	30	810	200	30	M12
EF-080B	100	150		650	135		M10
EF-132	154	195	28	1060	300	30	M12
EF-200A	100	200	26	707	95	35	M10
EF-200B	114.5	200	26	755	134	35	M10
EF-200B2	114.5	200	28	755	270	35	M10
EF-200B3	114.5	200	26	854	278	35	M10
EF-081C	99	150	28	880	125	30	M12
EF-082A	100	150	28	763	185	30	M10
EF-084	99	150	28	658	200	30	M12
SLZS0350A × 105	60	103.5	26	706	150	35	M10



The revised exterior structure drawing is applicable only to EF-080B

ELEMENT PRESSURE DROP AGAINSS FLOW CURVES



- ① EF107D、EF107G、EF107PA ② EF107P、EF107PB、EF-080B
 ③ EF-077 ④ EF-078L、EF-078L2 ⑤ EF-132

2、XNJ Series Tank Mounted Suction Filter

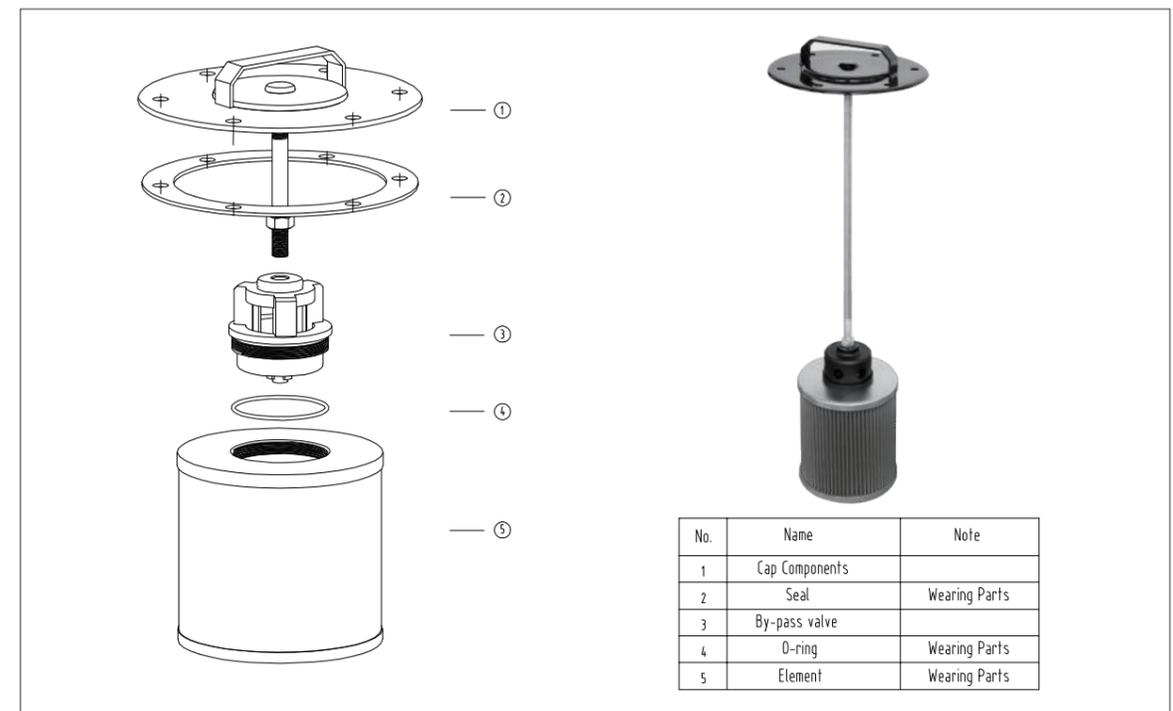
FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

By-pass Function

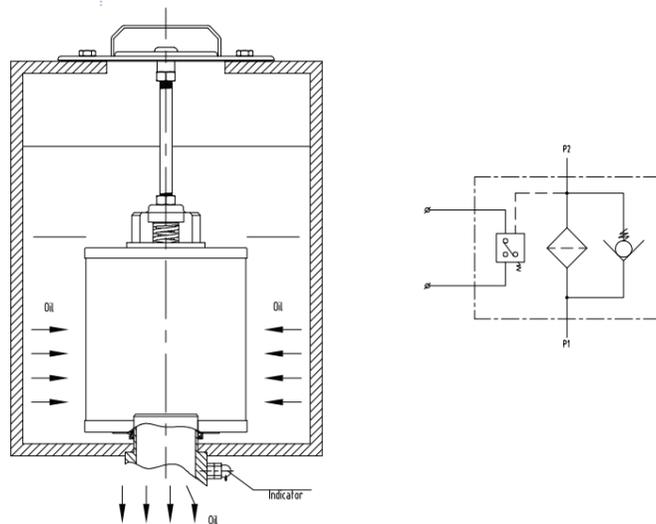
By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.



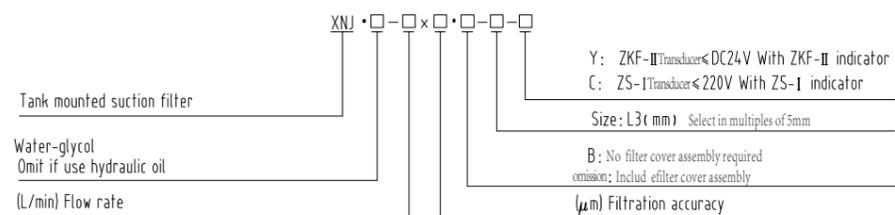
SPECIFICATION

Type of Construction: Inside Tank Mounted
Flow Range: 25~1000L/min
Operating Temp: -40°C~+120°C
Filter Media: Wire Mesh
Pressure Indicator Option: -0.018MPa
For Visual and Electrical Indicator Use
By-pass Valve Cracking Pressure: -0.02MPa
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

MOUNTING INSTRUCTION



MODEL CODE

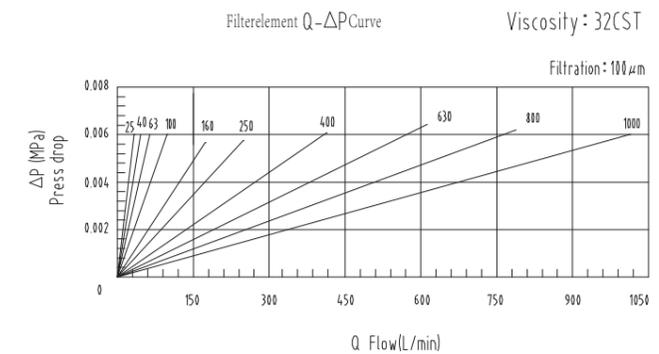


TECHNICAL PARAMETER

Model	Flow Rate (L/min)	Filtr (μm)	Dia (mm)	Initial Pressure Loss ΔP(MPa)	Indicator		By-pass Cracking Pressure (MPa)	Model of Element
					(V)	(A)		
XNJ-25×*- _C _Y	25	80	20	≤0.007	12	2.5	-0.02	JX-25×*
XNJ-40×*- _C _Y	40		JX-40×*					
XNJ-63×*- _C _Y	63		JX-63×*					
XNJ-100×*- _C _Y	100	32	24		2	JX-100×*		
XNJ-160×*- _C _Y	160	50	36		1.5	JX-160×*		
XNJ-250×*- _C _Y	250	80	220		0.25	JX-250×*		
XNJ-400×*- _C _Y	400	90				JX-400×*		
XNJ-630×*- _C _Y	630					JX-630×*		
XNJ-800×*- _C _Y	800					JX-800×*		
XNJ-1000×*- _C _Y	1000					JX-1000×*		

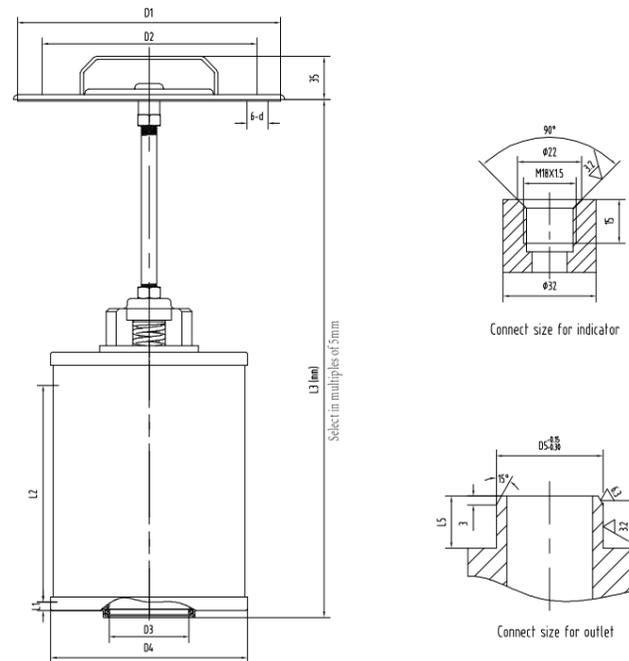
Note: * represents filtration accuracy, if the fluid medium is water-glycol, flow rate is 160L/min, filtration accuracy is 80μm with ZS- I indicator, then the model of filter is XNJ-BH-160×80-C and that of filter element is JX-BH-160×80.

ELEMENT PRESSURE DROP AGAINST FLOW CURVES



3、TF Series Tank Mounted Suction Filter

MOUNTING DIMENSION



Model	Size (mm)								
	D1	D2	D3	D4	L1	L2	L3 min	L5	d
XNJ-25×* ^C _Y	Φ129	Φ105	Φ25	Φ80	6.5	76.5	210	20	Φ9
XNJ-40×* ^C _Y						101.5			
XNJ-63×* ^C _Y	Φ154	Φ130	Φ40	Φ106	5.8	110	250		
XNJ-100×* ^C _Y						140			
XNJ-160×* ^C _Y	Φ200	Φ170	Φ55	Φ141	5.8	148.2	320		Φ11
XNJ-250×* ^C _Y						168.2			
XNJ-400×* ^C _Y	Φ242	Φ210	Φ85	Φ180	5	169	340		Φ13.5
XNJ-630×* ^C _Y						199			
XNJ-800×* ^C _Y	Φ262	Φ230	Φ100	Φ200	8.3	195.7	395		
XNJ-1000×* ^C _Y						225.7			

FEATURES

Contamination Indicator

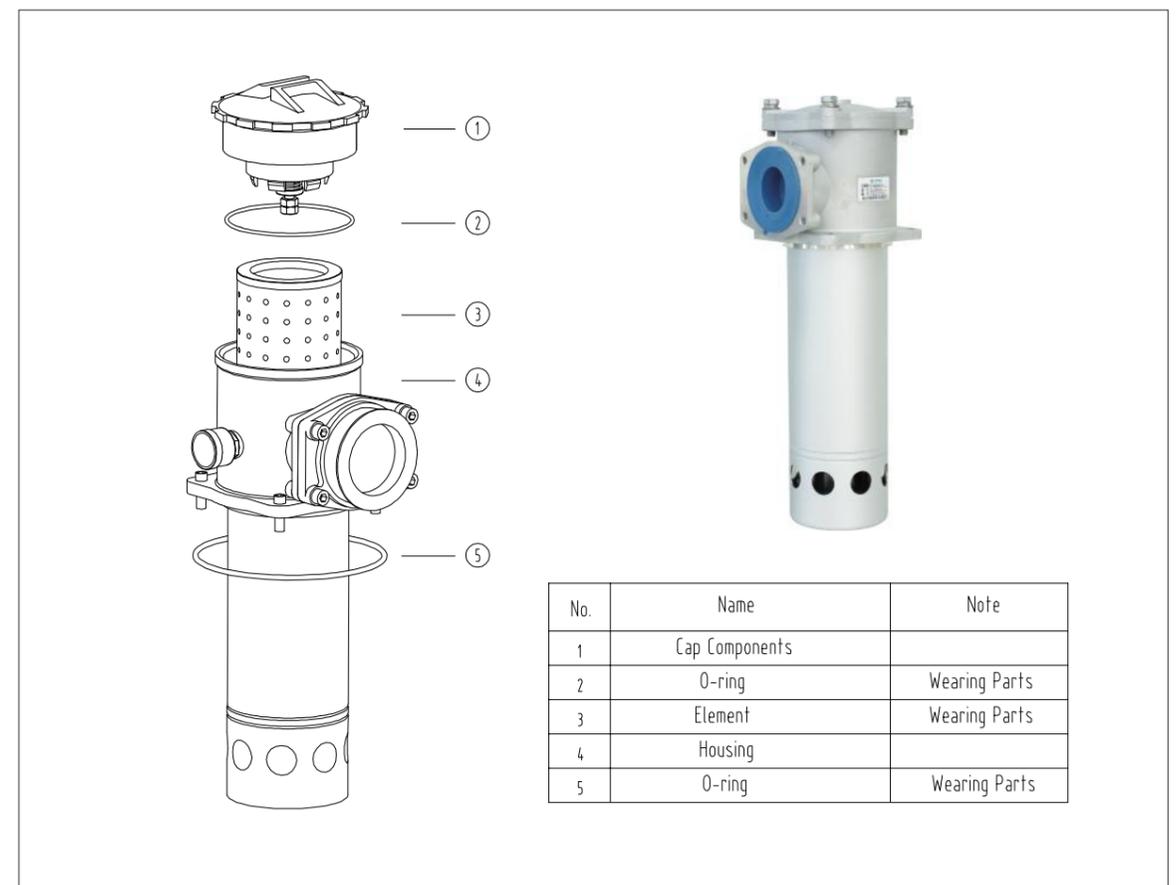
Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

By-Pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

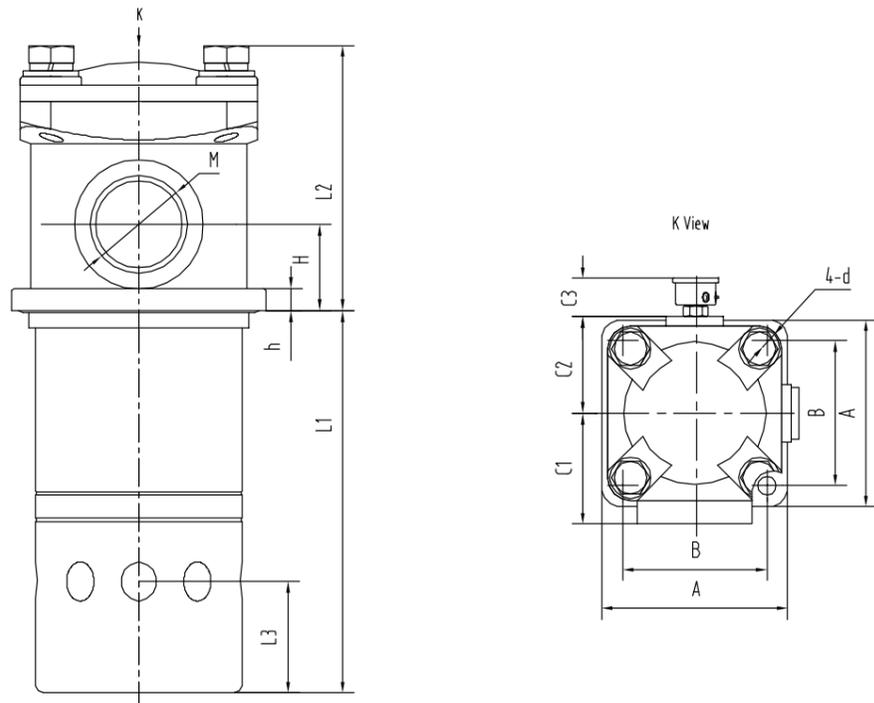
Self-Sealing Device

When changing the element or maintaining the system, open the filter cover, self-sealing device will automatically shut down so as to cut off the oil-way and prevent it from flowing out.



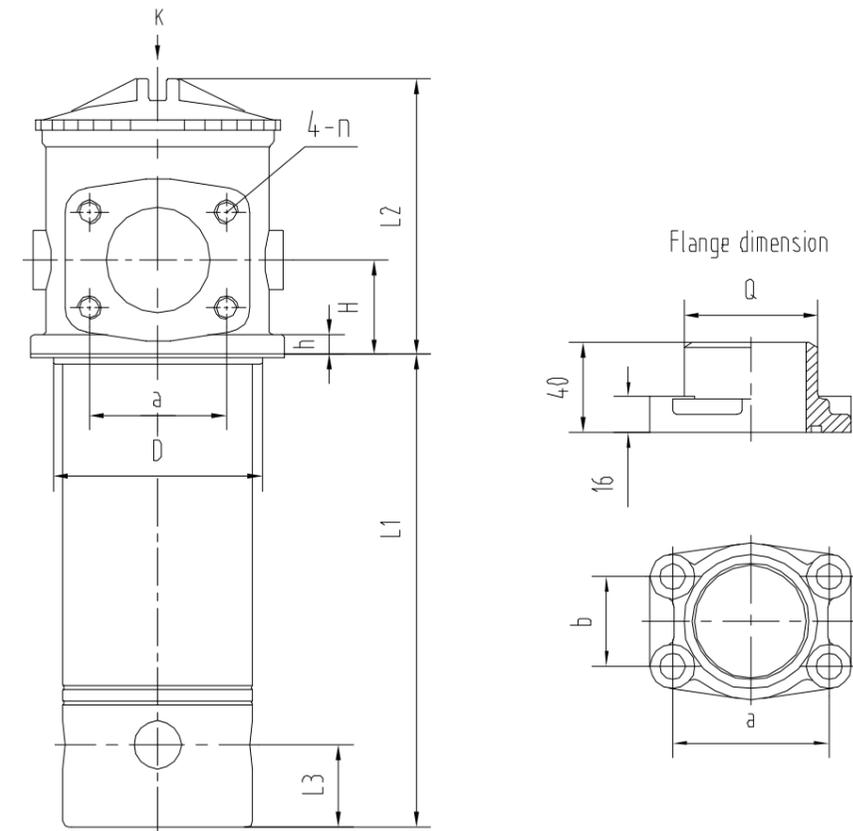
MOUNTING DIMENSION

1.TF-25~160 Threaded Connection (Outlet)



Model	Size (mm)												M
	L1	L2	L3	H	D	A	B	C1	C2	C3	h	d	
TF-25×*L- C Y	92	70	25	25	Φ60	80	60	45	36	39	6	Φ9	M22×1.5
TF-40×*L- C Y	106												M27×2
TF-63×*L- C Y	137	95	40	31	Φ74	91	70.7	54	47		8		M33×2
TF-100×*L- C Y	184												M42×2
TF-160×*L- C Y	196	114.5	55.5	40	Φ83.5	106	81.3	62	53.5		9		Φ11

2.TF-250~1300 Flanged Connection (Outlet)



Model	Size (mm)																	
	L1	L2	L3	H	D1	D	a	b	n	A	B	C1	C2	C3	h	d	Q	
TF-250×*F- C Y	273.5	118	53	40	Φ50	Φ83.5	70	40	M10	106	81.3	72.5	53.5	39	8.5	Φ11	Φ60	
TF-400×*F- C Y	278	142	60	50	Φ65	Φ110	90	50		125	95.5	82.5	61		12		Φ73	
TF-630×*F- C Y	303	176	60.5	65	Φ90	Φ127	120	70		160	130	101	79		13		Φ103	
TF-800×*F- C Y	363																	
TF-1000×*F- C Y	463																	
TF-1300×*F- C Y	658																	

4. WU Series Suction Filter

SPECIFICATIONS

Type of Construction: Inside Tank Mounted
Connection: Flange/Thread
Operating Temp: -40°C~+120°C
Range of Flow: 16~1000L/min
Filter Media: Wire Mesh
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

TECHNICAL PARAMETER

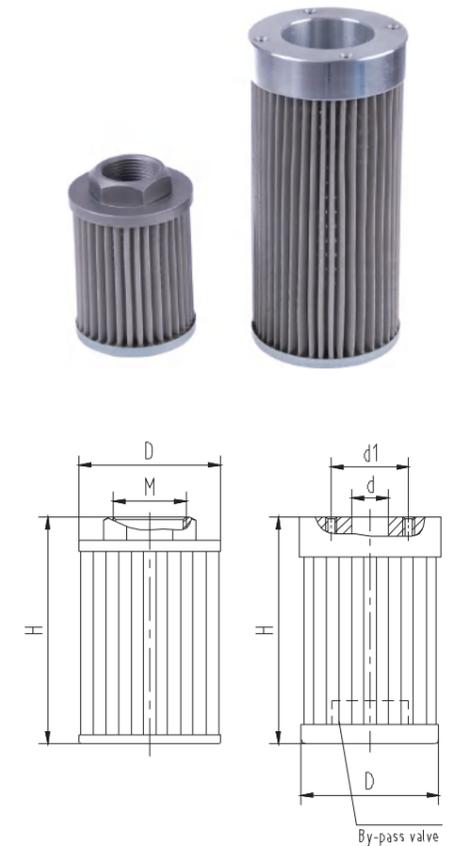
Model	Dia (mm)	Flow Rate (L/min)	Initial Pressure Loss.(MPa)	Filter (μm)	By-pass Cracking Pressure (MPa)	Connection
WU-16×*-J	12	16	≤0.01	80	0.02	Threaded
WU-25×*-J	15	25				
WU-40×*-J	20	40				
WU-63×*-J	25	63				
WU-90×*-J	40	90				
WU-100×*-J	32	100				
WU-120×*-J	25	120				
WU-160×*-J	40	160				
WU-225×*G-J	50	225		180		Flanged
WU-250×*F-J	70	350				
WU-350×*G-J	50	250				
WU-400×*F-J	65	400				
WU-630×*F-J	80	630				Threaded
WU-800×*G-J	63	800				
WU-1000×*G-J	76	1000				

Note: * represents filtration accuracy, if the fluid medium is water-glycol, with indicator ,flow rate is 100L/min, filtration accuracy is 80μm , then the model of filter is WUI-BH-100×80—J.

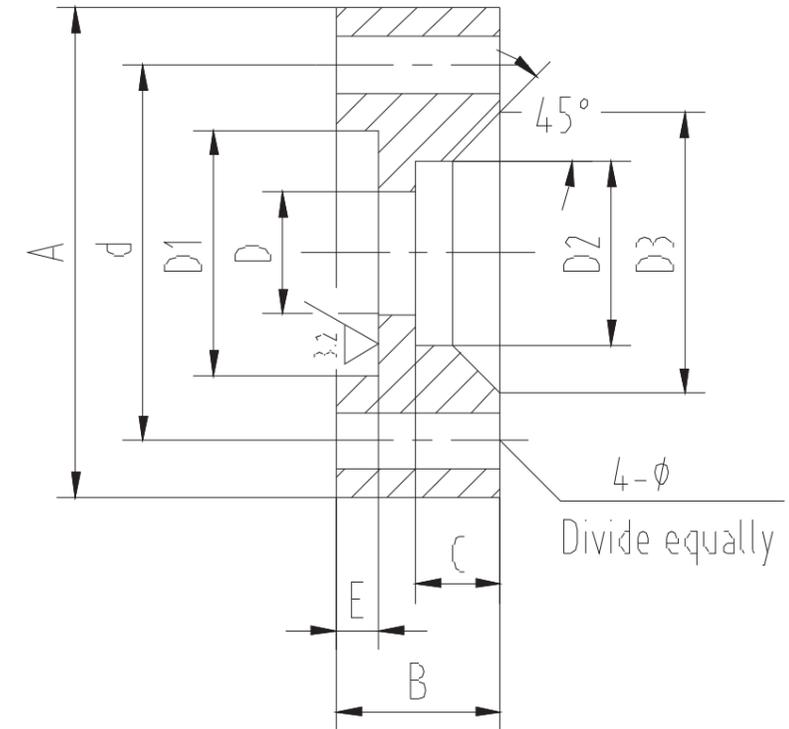
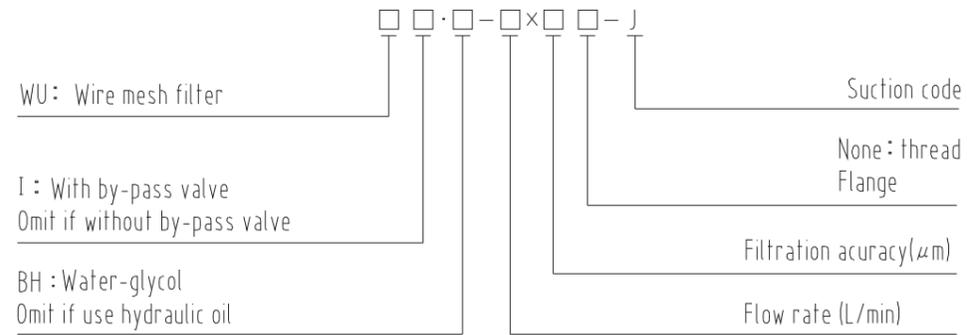
MOUNTING DIMENSION

1.WU Series (Wire mesh)

Mode	Size (mm)			M(d)
	H	D	d1	
WU-16×*-J	84	Φ35		M18×1.5
WU-25×*-J	104	Φ44.5		M22×1.5
WU-40×*-J	124	Φ45.5		M27×2
WU-63×*-J	103	Φ70		M33×2
WU-90×*-J	125	Φ82		M48×2
WU-100×*-J	153	Φ71		M42×2
WU-120×*-J	180	Φ70		M33×2
WU-160×*-J	200	Φ83		M48×2
WU-225×*G-J	165	Φ150		G2
WU-250×*F-J	182	Φ88	Φ74	Φ50
WU-350×*G-J	212	Φ150		G2 1/2
WU-400×*F-J	229	Φ104.5	Φ93	Φ65.5
WU-630×*F-J	281	Φ118	Φ104	Φ80
WU-800×*G-J	340	Φ150		G 2½
WU-1000×*G-J	430	Φ151		G3



MODEL CODE

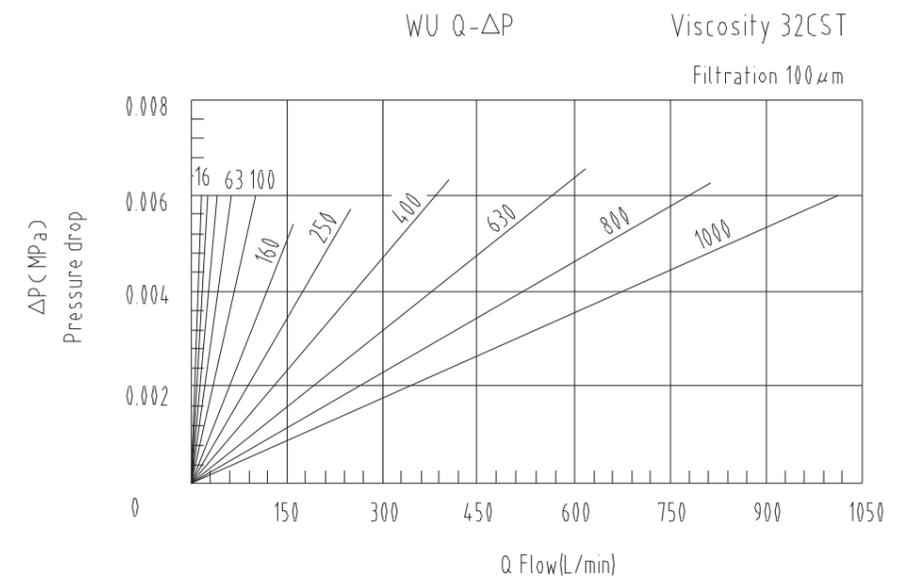


DIMENSIONS OF CONNECTING FLANGE

Connecting flange, please manufacture the product refer to the following size

Model	Size (mm)										"O" ring for flange	Screw for flange	
	A	B	C	D	D1	D2	D3	d	E	4-φ			
WU-250×*F-J	Φ86	15	9	Φ50	Φ60	Φ54	Φ60	Φ74	2.4	6.7		Φ60×3.1	M6×25
WU-400×*F-J	Φ105			Φ65	Φ75	Φ70	Φ76	Φ93				Φ75×3.1	
WU-630×*F-J	Φ118			Φ80	Φ90	Φ85	Φ91	Φ104				Φ90×3.1	

FLOW CURVES



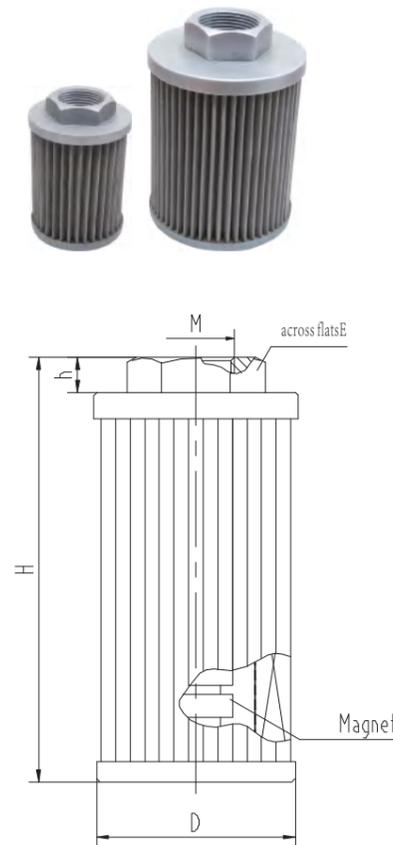
5、WF Series Suction Filter

SPECIFICATIONS

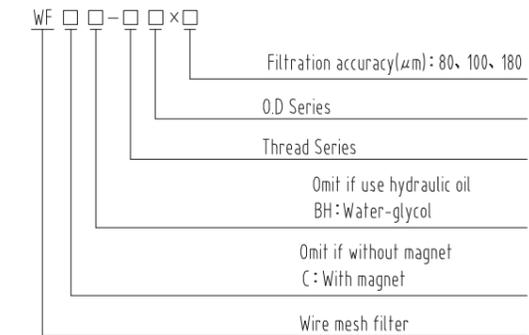
Type of Construction: Inside Tank Mounted
Connection: Flange/Thread
Operating Temp: -40°C~+120°C
Range of Flow: 16~1000L/min
Filter Media: Wire Mesh
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

MOUNTING DIEMENSION

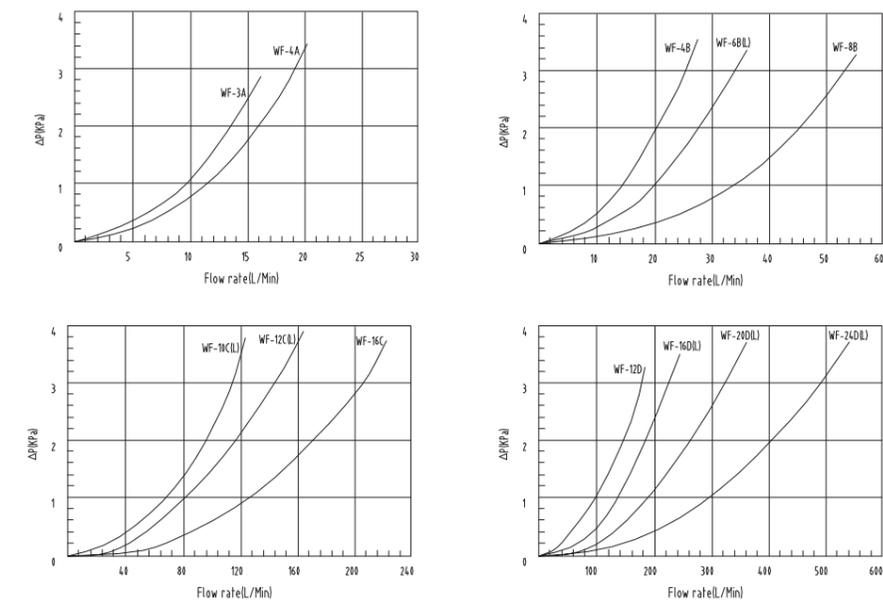
Model	M	Size (mm)				Filtmtion arca cm ²
		D	H	h	E	
WF-3A	G 3/8	Φ50	85	10	30	282
WF-4A	G 1/2		85	10	30	282
WF-4B	G 3/4	Φ70	95	10	41	530
WF-6B			95	10	41	530
WF-6BL	G 1	Φ70	145	10	41	832
WF-8B			145	10	41	832
WF-10C	G 1¼	Φ99	142	15	69	1206
WF-10CL			232	15	69	2140
WF-12C	G 1½	Φ99	142	15	69	1206
WF-12CL			232	15	69	2140
WF-16C	G 2	Φ130	232	15	69	2140
WF-12D	G 1½		170	20	69	2015
WF-16D			G 2	170	20	69
WF-16DL	270			20	69	3590
WF-20D	G 2½	Φ130	270	20	100	3590
WF-24D			270	20	100	3590
WF-24DL	G3	330	20	100	4320	



MODEL CODE



ELEMENT PRESSURE DROP AGAINSS FLOW CURVES



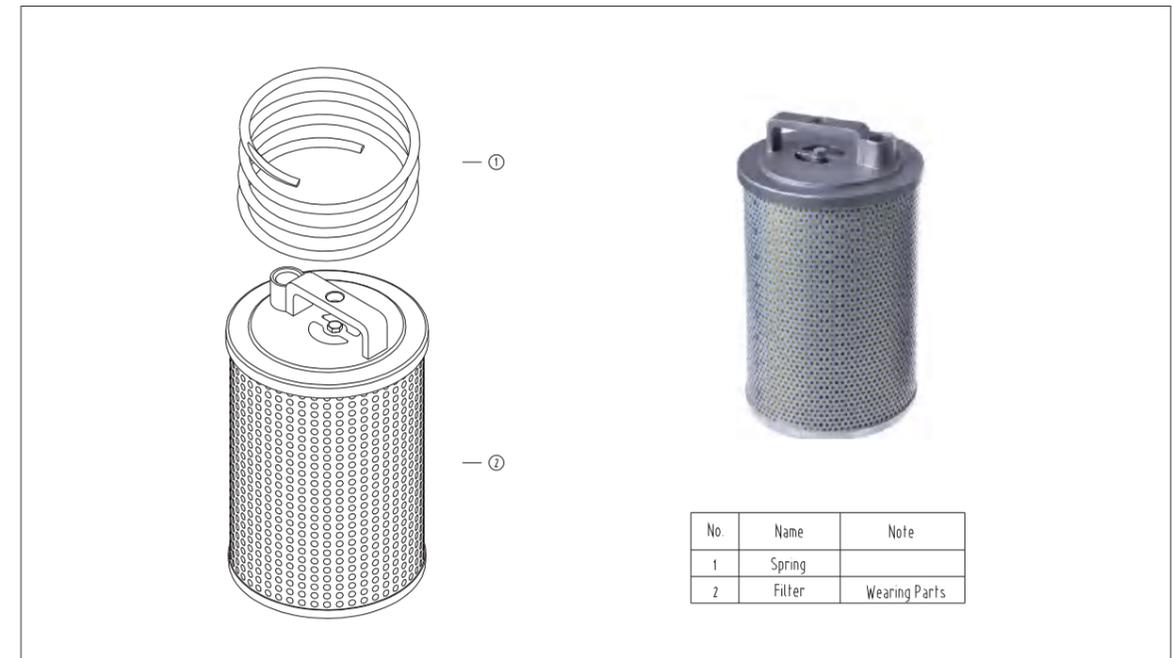
CONTENT

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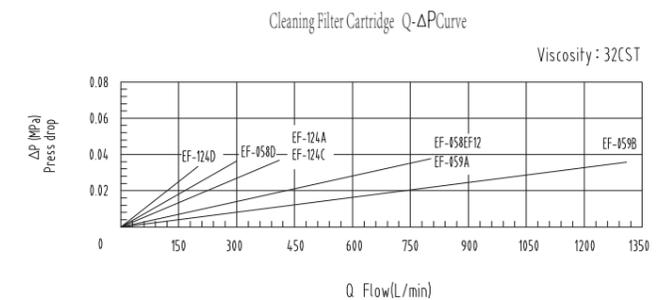
1、EF Series Return Filter

SPECIFICATIONS

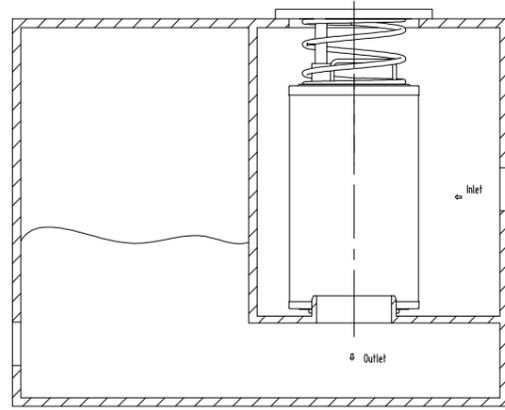
Type of Construction: Inside Tank Mounted
Max Pressure: 0.8MPa
Flow Range: 300~1300L/min
Operating Temp: -40°C~+120°C
Filter Media: Glass Fiber
Filtration Accuracy: 10~20μm
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.



ELEMENT PRESSURE DROP AGAINST FLOW CURVES



INSTALLATION DIAGRAM



TECHNICAL PARAMETER

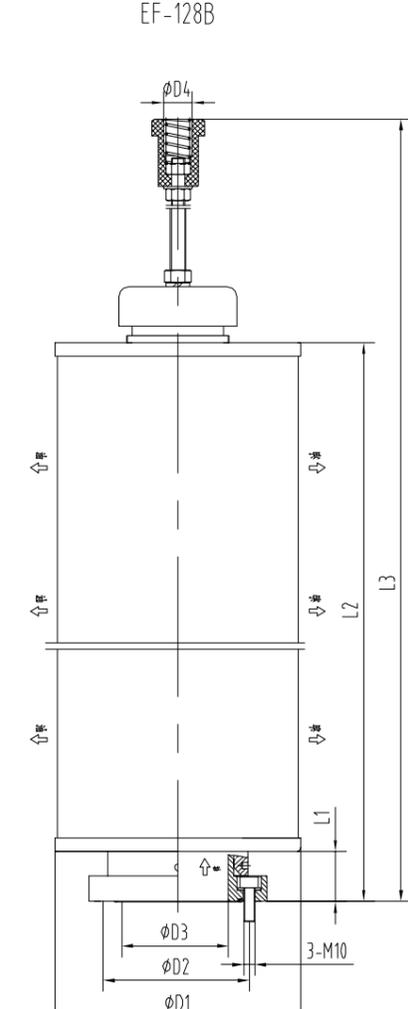
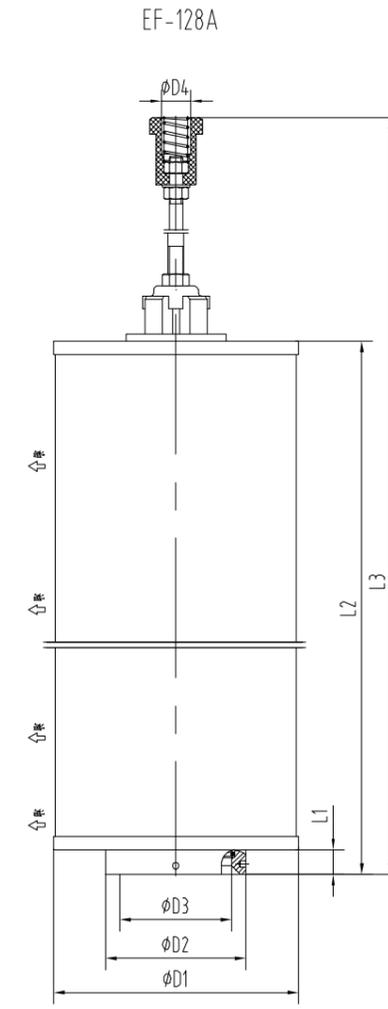
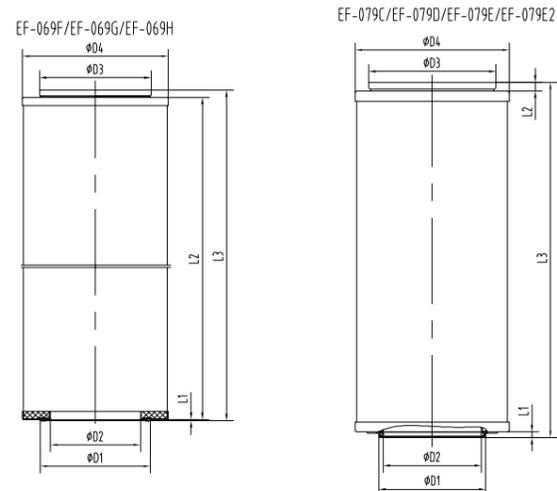
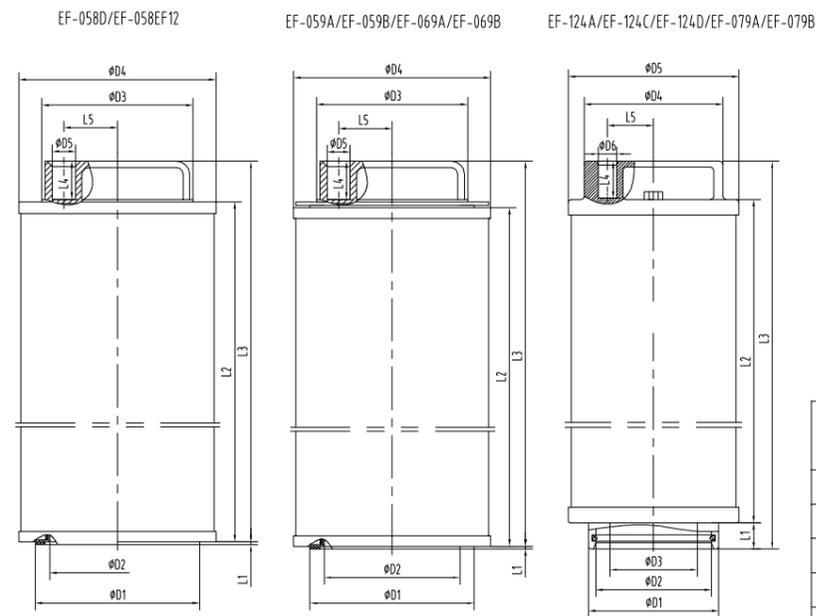
Model	Flow Rate (L/min)	Filtr (μm)	By-pass Cracking Pressure(MPa)	Maximum pressure (MPa)	Model of Element	Model of Spring
EF-058D	300	20	0.3	0.8		B010965
EF-058EF12	800	10	0.3			B010965
EF-058E	1000	10	0.25			B010965
EF-058F	800	10	0.25			B010965
EF-058G	800	10	0.17			B010965
EF-059A	800	10	0.25	0.8	EF-059AX	B010965
EF-059B	1300	10	0.25		EF-059BX	B012450
EF-069A	800	10	0.25		EF-069AX	B010965
EF-069B	1300	10	0.25		EF-069BX	B012450
EF-069D	1200	10	0.25		EF-069DX	B010965
EF-069F	1300	10	0.2		EF-069FX	B018977
EF-069G	1000	10	0.2		EF-069GX	B010965
EF-069H	600	10	0.2		EF-069HX	B010965
EF-079A	800	10	0.25		EF-079AX	B010965
EF-079A1	800	10	0.35		EF-079A1X	B010965
EF-079B	800	10	0.25	EF-079BX	B012450	
EF-079BQ	800	10	0.25	EF-079BQX	B012450	
EF-079C	700	10	0.2	EF-079CX	B018977	
EF-079D	630	10	0.2	EF-079DX	B018977	

Model	Flow Rate (L/min)	Filtr (μm)	By-pass Cracking Pressure(MPa)	Maximum pressure (MPa)	Model of Element	Model of Spring
EF-079E	1800	10	0.4	0.8	EF-079EX	B012100
EF-079E2	1500	10	0.25		EF-079E2X	B012100
EF-124A	400	10	0.3			B010966
EF-124A2	400	10	0.25			B010966
EF-124A3	380	10	0.25			B010966
EF-124C	400	10	0.17			B010966
EF-124D	180	10	0.1			B010966
EF-124D2	450	10	0.125			B010966
EF-128A	1200	10	0.4			EF-128AX
EF-128B	800	10	0.4			EF-128BX

MOUNTING DIMENSION

Model	Size(mm)									
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
EF-058D	130	98	120	154	18	2.5	220	253	24	42.5
EF-058EF12	130	98	120	154	18	2.5	627	660	24	42.5
EF-058E	134	110	120	154	18	2	605	638	24	42.5
EF-058F	130	98	120	154	18	1.5	630	663	24	42.5
EF-058G	130	98	120	154	18	1.5	428	461	24	42.5
EF-059A	130	98	120	150	18	2.5	422	461	24	42.5
EF-059B	130	110	120	170	18	2.5	500	538.5	24	42.5
EF-069A	130	98	120	150	18	2.5	422	461	24	42.5
EF-069B	134	110	120	170	18	1.5	500	537	24	42.5
EF-069D	134	110	120	150	18	2	600	635	24	42.5
EF-069F	134	110	136	178		2	600	609		
EF-069G	130	98	136	150		2	429	437		
EF-069H	117	73.5	110	112		2	451	459		
EF-079C	104	96	124	150		5.5	8.5	458.5		

Model	Size(mm)									
	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
EF-079D	98.6	90	124	150		7.3	8.5	515.5		
EF-079E	111	98	106.5	200		7.7	25	832		
EF-079E2	111	98	106.5	200		7.7	24	577		
EF-128A	220	126	100	26		22	522	762		
EF-128B	220	128	90	26		45	545	745		



2、XNL Series Tank Mounted Return Line Filter

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

By-pass Function (optional)

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

Self-Sealing Device

When maintaining the system, open the filter cover, self-sealing device will automatically shut down so as to cut off the oil-way and prevent it from flowing out.

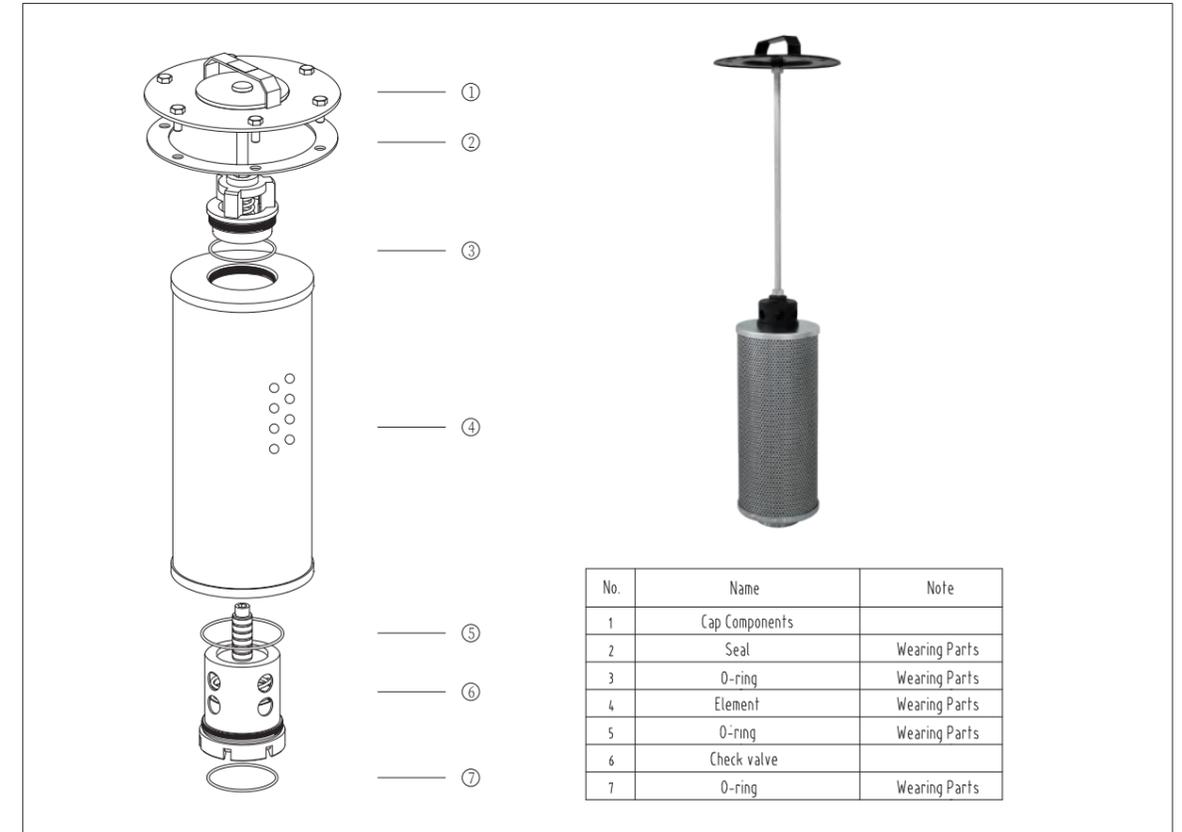
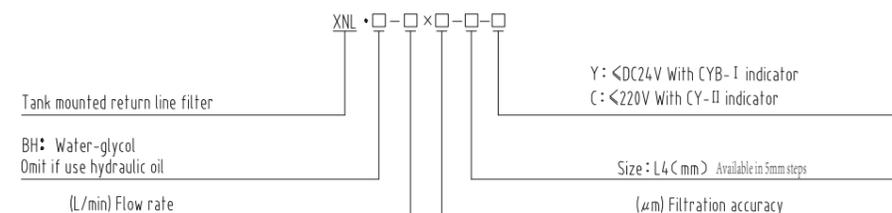
Magnetic Filter

The iron pollutants of filter medium can be absorbed by magnets inside of the filter in any hydraulic oil.

SPECIFICATIONS

Type of Construction: Inside Tank Mounted
Max Pressure: 0.6MPa
Flow Range: 25~1000L/min
Operating Temp: -40°C~+120°C
Filter Media: Glass Fiber
Filtration Accuracy: 3~30μm
Pressure Indicator Option: 0.35MPa
For Visual and Electrical Indicator Use
By-pass Valve Cracking Pressure: 0.4MPa
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

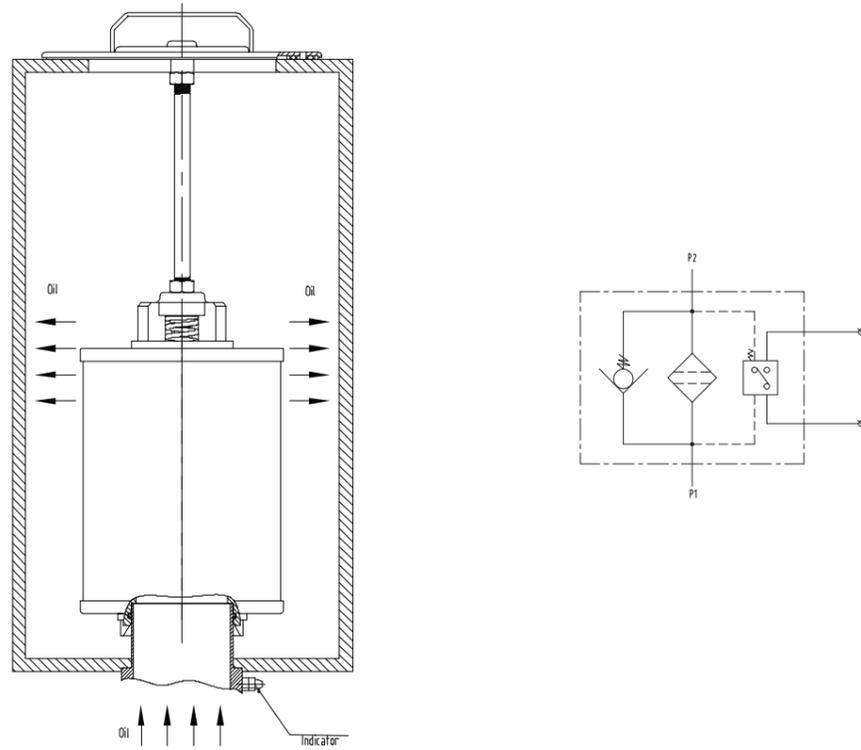
MODEL CODE



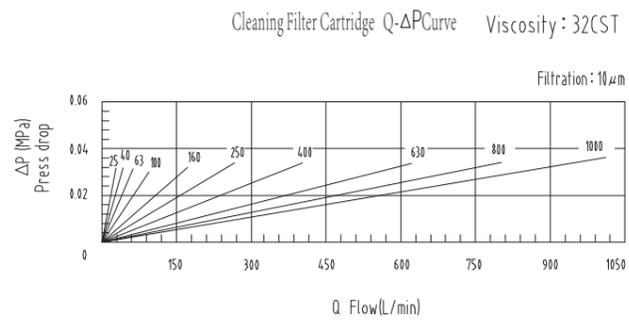
TECHNICAL PARAMETER

Model	Flow Rate (L/min)	Filtr (μm)	Dia (mm)	Initial Loss (MPa)		Indicator		Weight (Kg)	Model of Element
				Initial	Max.	(V)	(A)		
XNL-25×*- C Y	25	3	20	≤0.1	0.35	220	0.25	1.2	NLX-25×*
XNL-40×*- C Y	40								2.3
XNL-63×*- C Y	63		NLX-63×*						
XNL-100×*- C Y	100	36	1.5				NLX-100×*		
XNL-160×*- C Y	160						NLX-160×*		
XNL-250×*- C Y	250	24	2				NLX-250×*		
XNL-400×*- C Y	400					NLX-400×*			
XNL-630×*- C Y	630	12	2.5			NLX-630×*			
XNL-800×*- C Y	800					NLX-800×*			
XNL-1000×*- C Y	1000					NLX-1000×*			

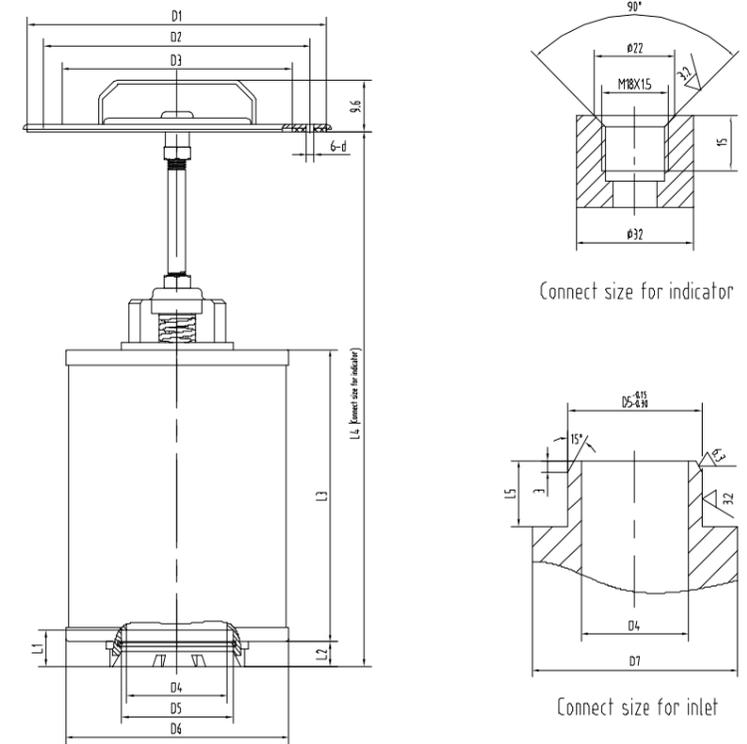
MOUNTING DIMENSION



ELEMENT PRESSURE DROP AGAINST FLOW CURVES



MOUNTING DIMENSION



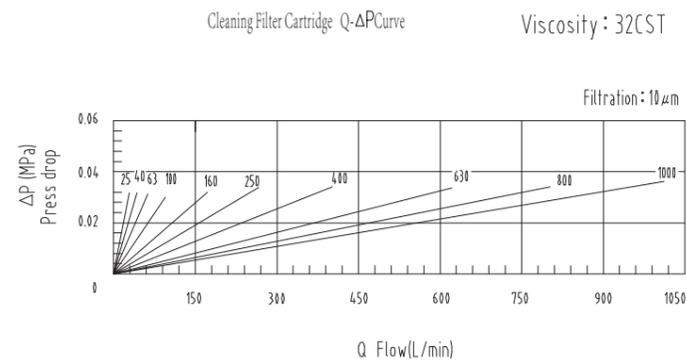
Model	Size(mm)													
	D1	D2	D3	D4	D5	D6	D7	L1	L2	L3	Min.L4	L5	d	
XNL-25×*- C Y	Φ129	Φ105	Φ85	Φ20	Φ25	Φ80	Φ46	21	12	145	280	20	Φ9	
XNL-40×*- C Y										180	315			
XNL-63×*- C Y	Φ154	Φ130	Φ110	Φ32	Φ40	Φ106	Φ56	23	15	160	300	22		
XNL-100×*- C Y										210	350			
XNL-160×*- C Y	Φ200	Φ170	Φ145	Φ50	Φ55	Φ141	Φ76	28	20	250	430	27	Φ11	
XNL-250×*- C Y										320	500			
XNL-400×*- C Y	Φ242	Φ210	Φ185	Φ80	Φ85	Φ180	Φ108	32	22	400	580	31		Φ13.5
XNL-630×*- C Y										500	680			
XNL-800×*- C Y	Φ262	Φ230	Φ205	Φ90	Φ100	Φ200	Φ127	32	22	600	805	31		
XNL-1000×*- C Y										750	955			

TECHNICAL PARAMETER

Model	Flow Rate (L/min)	Filtr (μm)	Dia (mm)	Initial Loss (MPa)		Indicator		Weight (Kg)	Model of Element
				Initial	Max.	(V)	(A)		
RFA-25×* L- _C _Y	25	3	15	≤0.075	0.35	12	2.5	0.85	FAX - 25×*
RFA-40×* L- _C _Y	40		20						FAX - 40×*
RFA-63×* L- _C _Y	63		25						FAX - 63×*
RFA-100×* L- _C _Y	100		32						FAX - 100×*
RFA-160×* L- _C _Y	160		40						FAX - 160×*
RFA-250×* F- _C _Y	250		50						FAX - 250×*
RFA-400×* F- _C _Y	400		65						FAX - 400×*
RFA-630×* F- _C _Y	630		90						FAX - 630×*
RFA-800×* F- _C _Y	800		90						FAX - 800×*
RFA-1000×* F- _C _Y	1000		90						FAX - 1000×*

Note: * represents filtration accuracy, if the fluid medium is water-glycol, flow rate is 63L/min, filtration accuracy is 10μm, with CYB- I indicator, then the model of filter is RFA·BH-63 X 10-Y and that of filter element is FAX·BH-63 X 10.

ELEMENT PRESSURE DROP AGAINST FLOW CURVES



MOUNTING DIMENSION

1. Threaded (Inlet Threaded Connection)

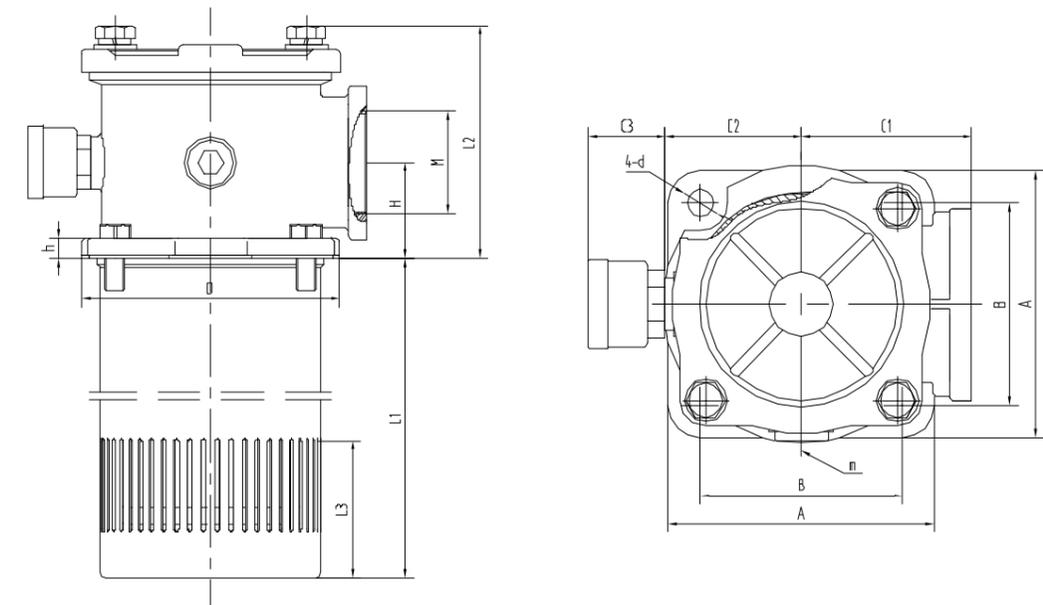
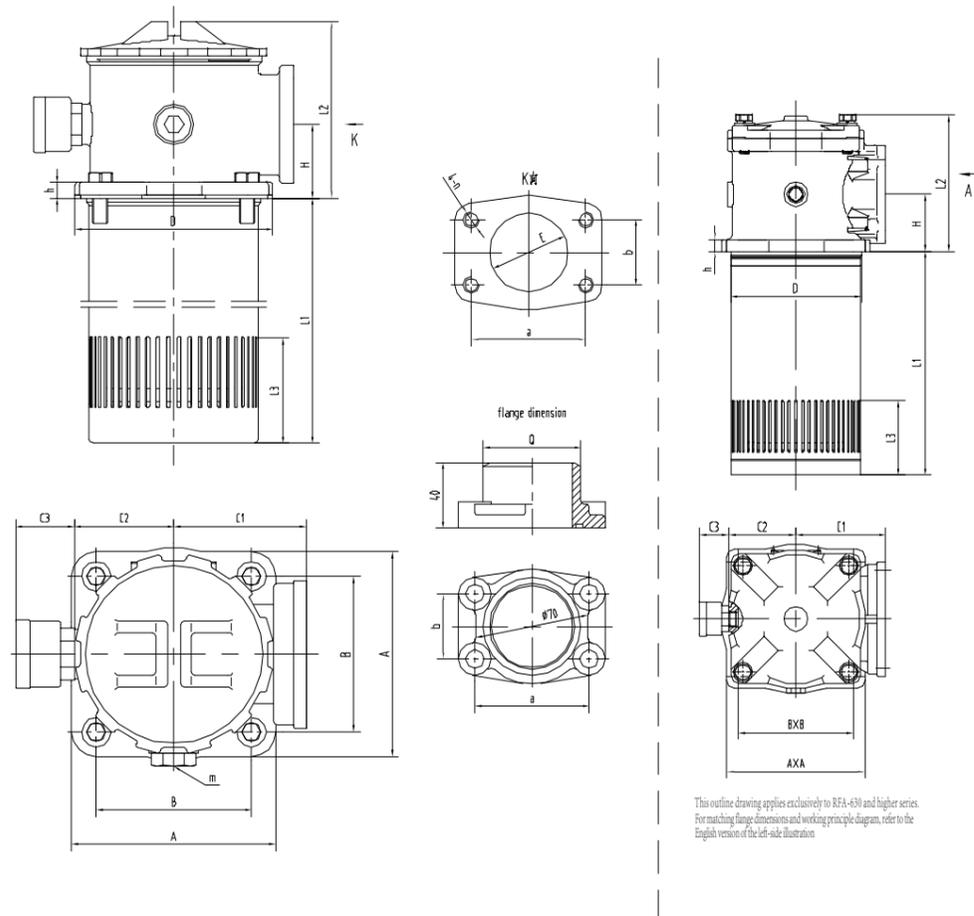


Table 1: RFA- 25- RFA- 160 Threaded Connection Size

Model	Size(mm)													M
	L1	L2	L3	H	D	m	A	B	C1	C2	C3	d	h	
RFA-25×* L- _C _Y	127	74	45	25	Φ75	M18X1.5	90	70	53	45	36	Φ9	10	M22X1.5
RFA-40×* L- _C _Y	158													M27X2
RFA-63×* L- _C _Y	185	93	60	33	Φ95		110	85	60	53			12	M33X2
RFA-100×* L- _C _Y	245													M42X2
RFA-160×* L- _C _Y	318	107	80	43	Φ110		125	95	70.5	60			Φ13	14

2、Flange (Outlet and Inlet Flange Connection)



Tabl 2: RFA - 250~1000 Flanged Connection Size

Model	Size(mm)																	m			
	L1	L2	L3	H	D	E	a	b	n	A	B	C1	C2	C3	d	Q	h				
RFA-250×* F- _Y ^C	418	107	80	42	Φ110	Φ50	70	40	M10	125	95	81	60	36	Φ13	60	15	M18 X 1.5			
RFA-400×* F- _Y ^C	467	135	100	55	Φ130	Φ65	90	50		140	110	90	68			73	15				
RFA-630×* F- _Y ^C	493																				
RFA-800×* F- _Y ^C	606	175	118	69	Φ160	Φ90	120	70		170	140	116	82			102	18				
RFA-1000×* F- _Y ^C	786																				

Note: 2-m can be installed in any direction of indicator or used as small oil return hole with a plug.

4、RF Series Tank Mounted Return Filter

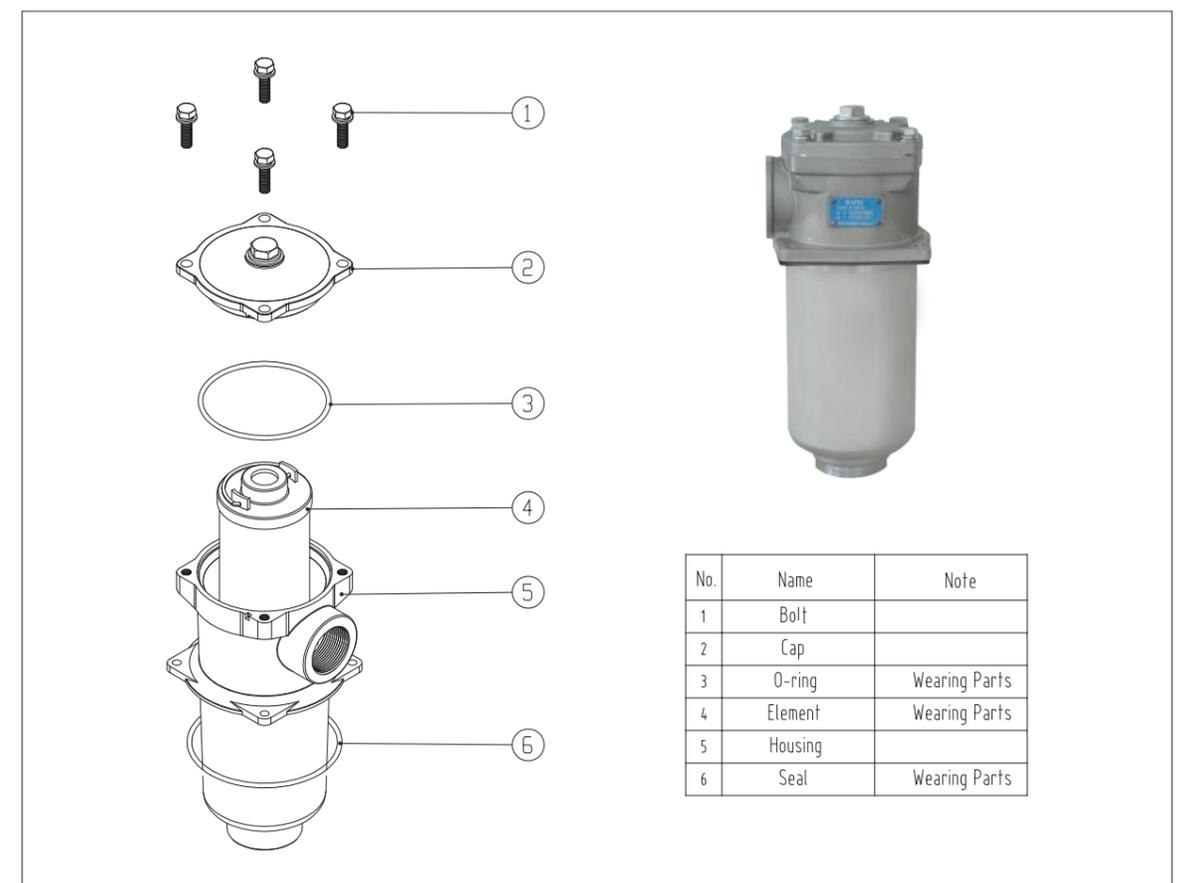
FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

By-pass Function

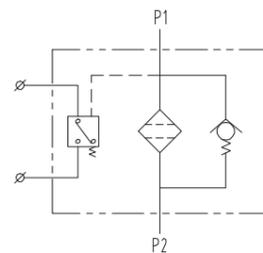
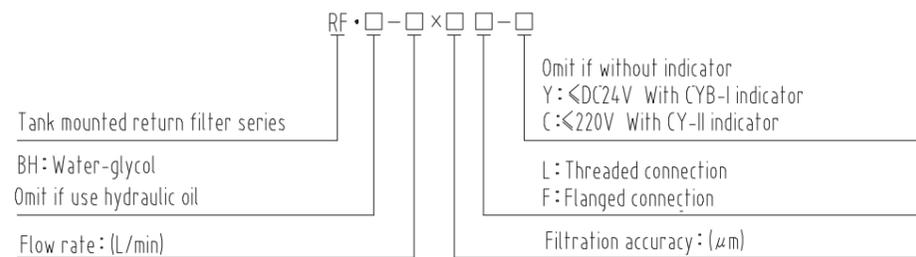
By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.



SPECIFICATIONS

Type of Construction: Tank Top Mounted, Inline Mounted
Max Pressure: 1MPa
Flow Range: 60~1300L/min
Connection: Flange/Thread
Operating Temp: -40°C~+120°C
Filter Media: Glass Fiber
Filtration Accuracy: 3~30μm
Pressure Indicator Option: 0.35MPa
For Visual and Electrical Indicator Use
By-pass Valve Cracking Pressure: 0.4MPa
Bowl Housing: Aluminum Alloy
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

MODEL CODE

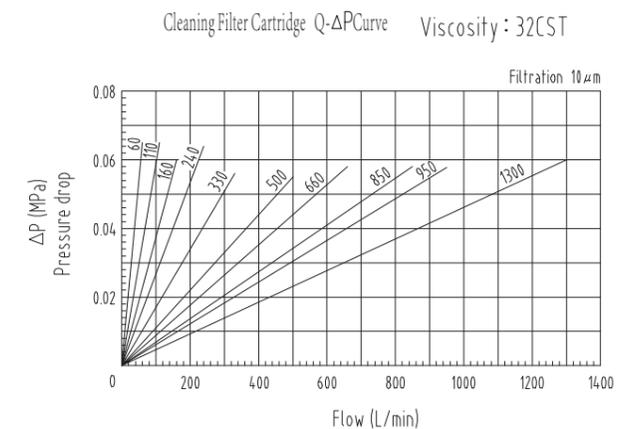


TECHNICAL PARAMETER

Model	Flow Rate (L/min)	Filtr (μm)	Dia (mm)	Initial Loss (MPa)		Indicator		Weight (Kg)	Model of Element		
				Initial	Max.	(V)	(A)				
RF-60×* $\frac{Y}{C}$	60	3	20	≤0.07	0.35	12	2.5	0.4	SO0060R*BN/HC		
RF-110×* $\frac{Y}{C}$	110										0.9
RF-160×* $\frac{Y}{C}$	160	40								1.1	SO0160R*BN/HC
RF-240×* $\frac{Y}{C}$	240	5								1.8	SO0240R*BN/HC
RF-330×* $\frac{Y}{C}$	330	10	50				24	2	2.3	SO0330R*BN/HC	
RF-500×* $\frac{Y}{C}$	500	20	80				36	1.5	3.2	SO0500R*BN/HC	
RF-660×* $\frac{Y}{C}$	660	30	90				220	0.25	4.1	SO0660R*BN/HC	
RF-850×* $\frac{Y}{C}$	850								13	SO0850R*BN/HC	
RF-950×* $\frac{Y}{C}$	950		100						20	SO0950R*BN/HC	
RF-1300×* $\frac{Y}{C}$	1300								41.5	SO1300R*BN/HC	

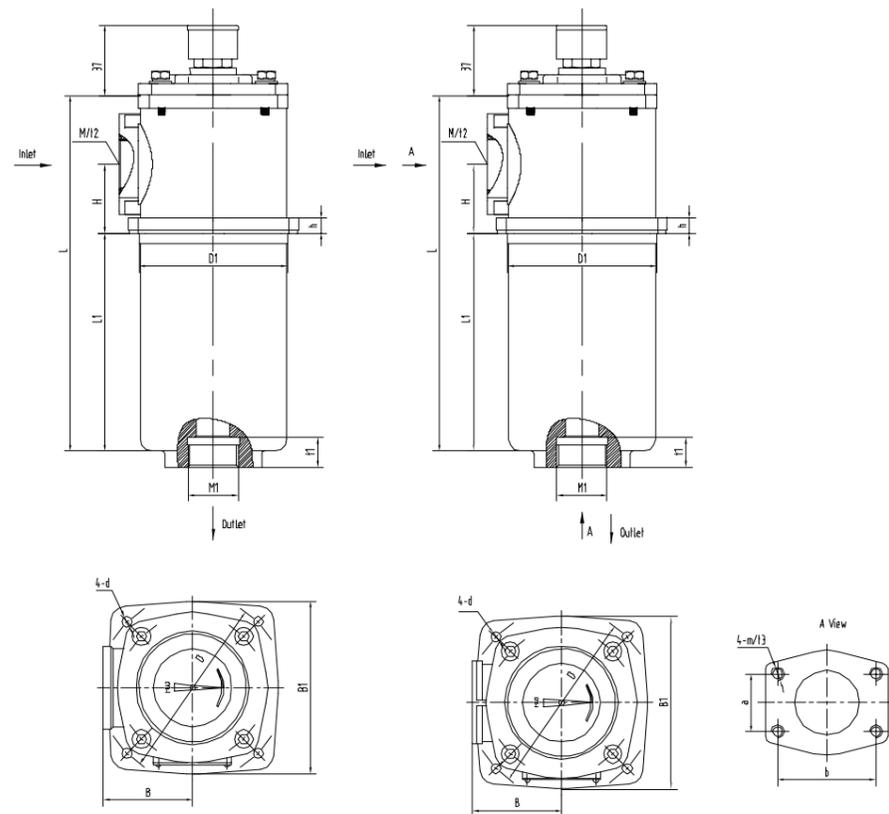
Note: * represents filtration accuracy, if the fluid medium is water-glycol, flow rate is 160L/min, filtration accuracy is 10μm, with CYB-I indicator and then the model of filter is RF·BH-160 × 10Y and that of filter element is SO0160R010BN/HC.BH

ELEMENT PRESSURE DROP AGAINST FLOW CURVES



■ MOUNTING DIMENSION

Model	Size(mm)																M	M1
	B1	L	L1	h	D1	H	D	d	t2	B	t1	m	t3	a	b	DN		
RF-60×*L- Y C	93	166	92	11	Φ80	34	Φ100	Φ5.5	16	48	16						M27×2	M27×2
RF-110×*L- Y C		233	159														M33×2	M33×2
RF-160×*L- Y C	123	208.5	120	11	Φ106	40	Φ135	Φ7	20	66	20						M48×2	M48×2
RF-240×*L- Y C		267.5	179														M48×2	M48×2
RF-330×*L- Y C	156	282	130.5	13	Φ135	63	Φ170	Φ9	27	85	27						M60×2	M60×2
RF-330×*F- Y C		351	218														M12	23
RF-500×*F- Y C	200.5	411	243	13	Φ175	83	Φ220	Φ13.5		110								
RF-660×*F- Y C		492	324															
RF-850×*F- Y C	255	449	251	14	Φ208	93	Φ290	Φ17.5		135								
RF-950×*F- Y C		573	332															
RF-1300×*F- Y C				77.8	130.2	Φ100												



5、RFB Series Check Valve Magnetic Return Filter

■ FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

Magnetic Filter

The iron pollutants of filter medium can be absorbed by magnets inside of the filter in any hydraulic oil.

Diffuser

The diffuser can diffuse the direction of return oil under large flow, thus making it not easy to produce bubbles and reducing the occurrence of turbulent flow.

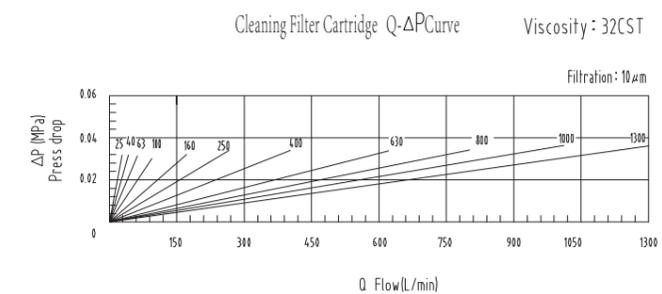
By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value

Self-Sealing Device

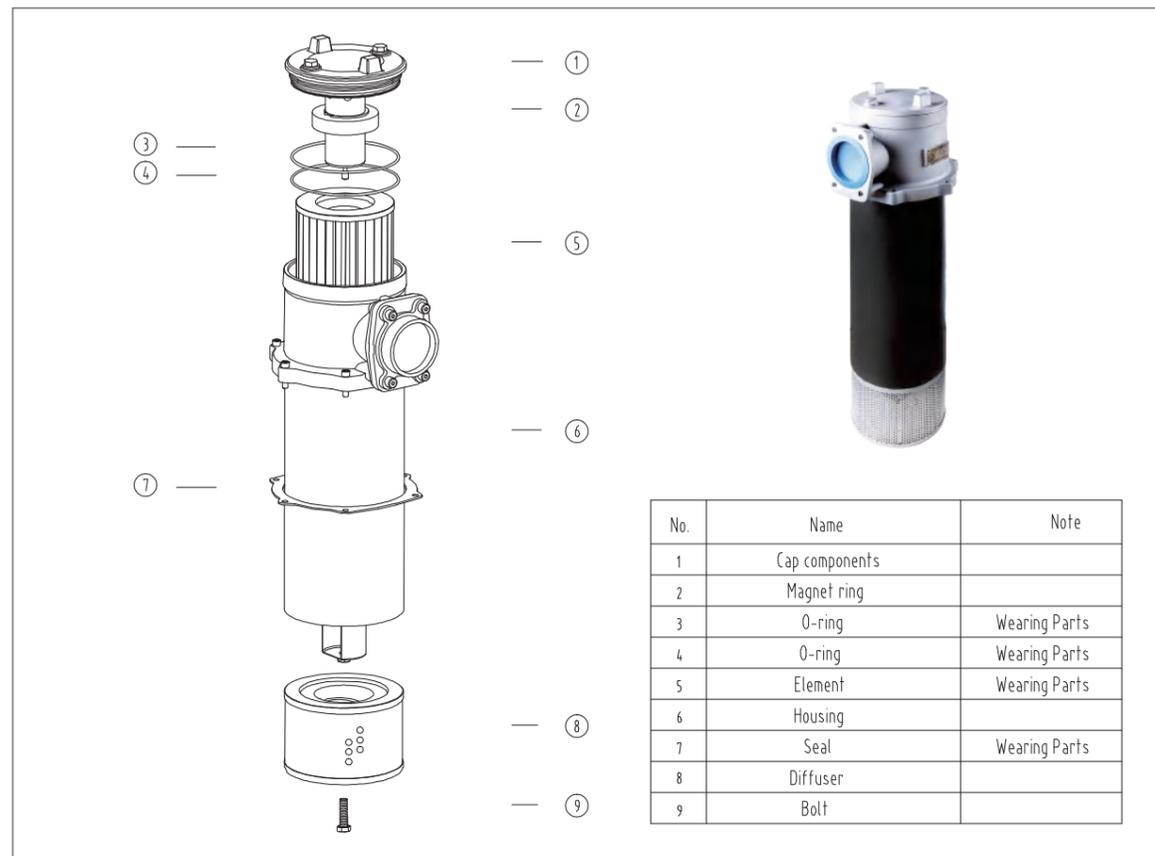
When changing the element or maintaining the system, open the filter cover, self-sealing device will automatically shut down so as to cut off the oil-way and prevent it from flowing out.

■ ELEMENT PRESSURE DROP AGAINST FLOW CURVES

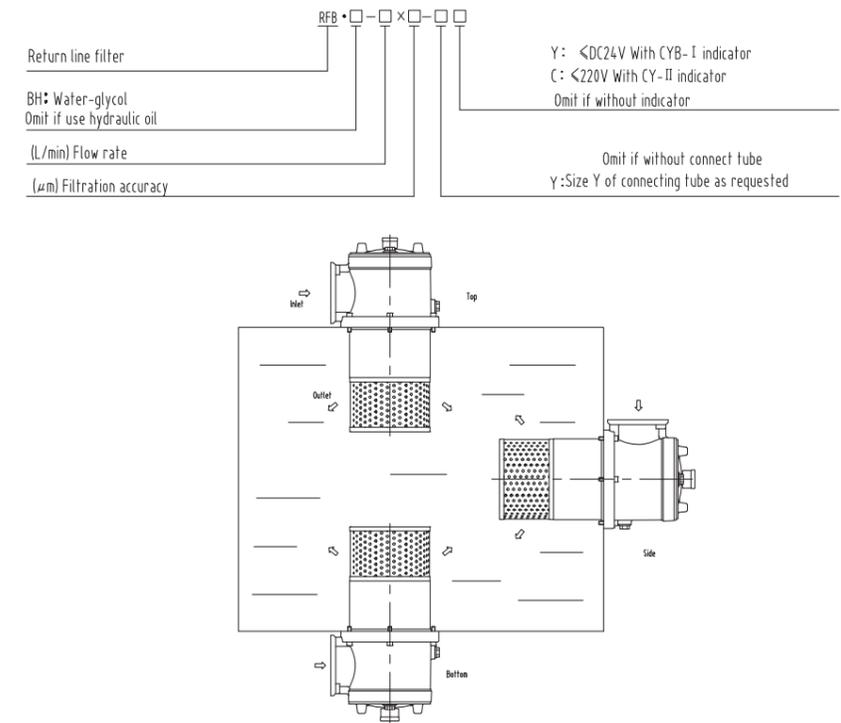


SPECIFICATIONS

Type of Construction: Tank Top Mounted, Tank Side Mounted
Max Pressure: 1.6MPa
Flow Range: 25~1300L/min
Connection: Flange
Operating Temp: -40°C~+120°C
Filter Media: Glass Fiber
Filtration Accuracy: 3~30μm
Pressure Indicator Option: 0.35MPa
For Visual and Electrical Indicator Use
By-pass Valve Cracking Pressure: 0.4MPa
Bowl Housing: Aluminum Alloy
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

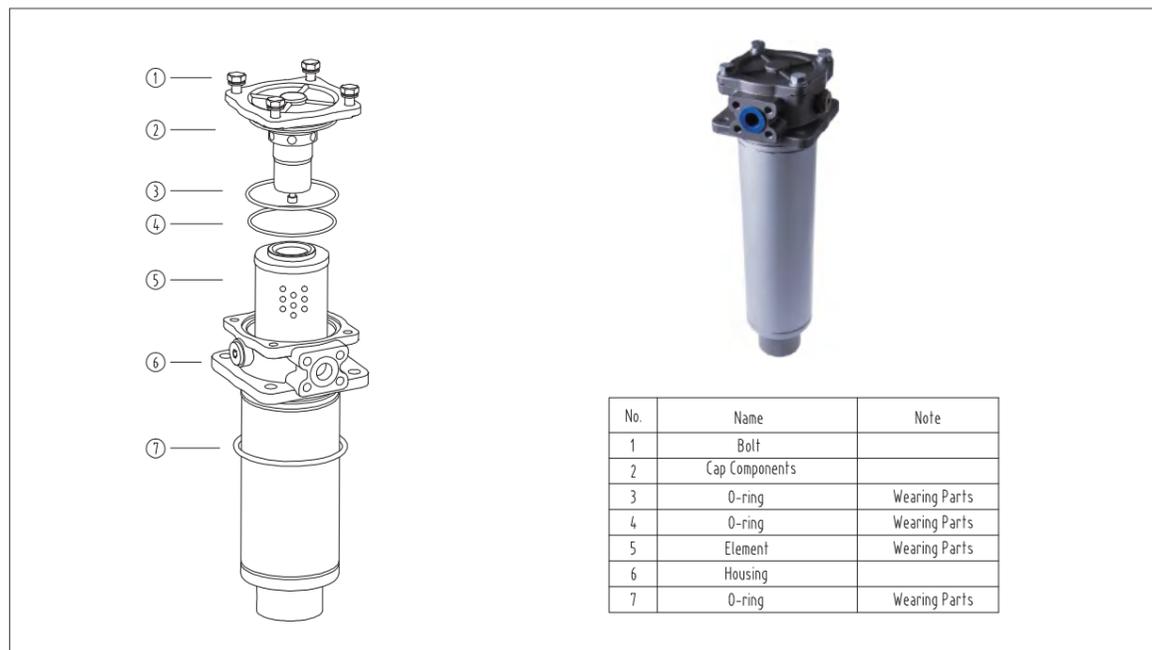


MOUNTING AND MODEL INSTRUCTION



TECHNICAL PARAMETER

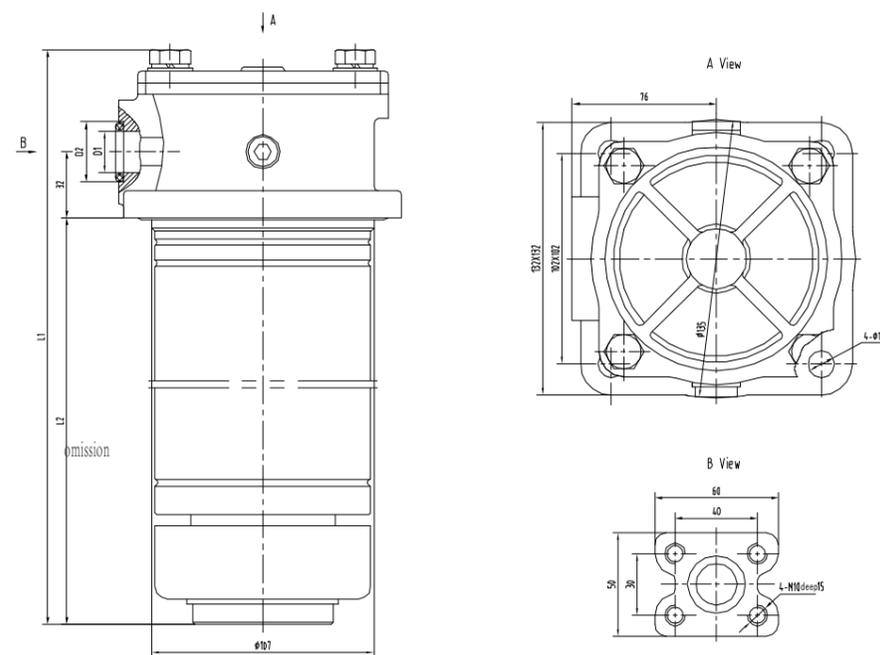
Model	Flow Rate (L/min)	Filtr (μm)	Initial Loss (MPa)		Indicator		Weight (Kg)	Model of Element
			Initial	Max.	(V)	(A)		
RFB-25×* - C _Y	25	1	≤0.075	0.35	12	2.5	4.6	FBX-25×*
RFB-40×* - C _Y	40						4.8	FBX-40×*
RFB-63×* - C _Y	63	3					5.3	FBX-63×*
RFB-100×* - C _Y	100				24	2	6	FBX-100×*
RFB-160×* - C _Y	160	5					6.7	FBX-160×*
RFB-250×* - C _Y	250						12.3	FBX-250×*
RFB-400×* - C _Y	400	10			63	1.5	14.7	FBX-400×*
RFB-630×* - C _Y	630						17.3	FBX-630×*
RFB-800×* - C _Y	800	20					18.6	FBX-800×*
RFB-1000×* - C _Y	1000				220	0.25	21.3	FBX-1000×*
RFB-1300×* - C _Y	1300	30			27.8	FBX-1300×*		



TECHNICAL PARAMETER

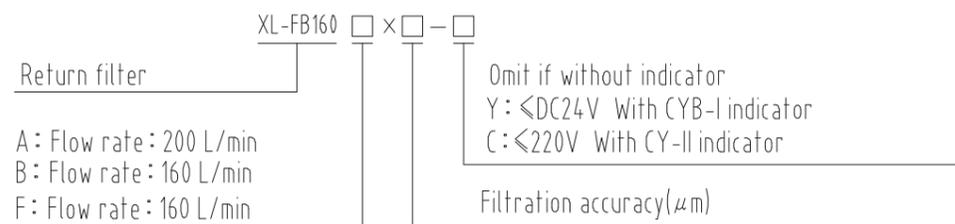
Model	Flow Rate (L/min)	Filtr (μ m)	Model of Element
XL-FB160A × *	200	3, 5, 10, 20, 30	XL-FB160AX × *
XL-FB160B × *	160		XL-FB160X × *
XL-FB160F × *	160		

MOUNTING DIMENSION

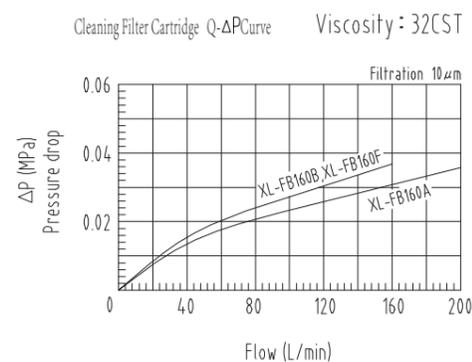


Model	Size(mm)				Diffuser
	D1	D2	L1	L2	
XL-FB160A × *	26	34	631.5	550	×
XL-FB160B × *	20	28	477	395.5	×
XL-FB160F × *	20	28	477	395.5	√

MODEL CODE



ELEMENT PRESSURE DROP AGAINST FLOW CURVES



7, SO Series Inside Return Filter

FEATURES

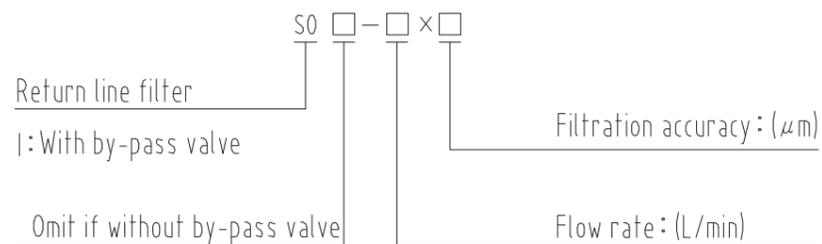
By-pass Function(Optional)

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

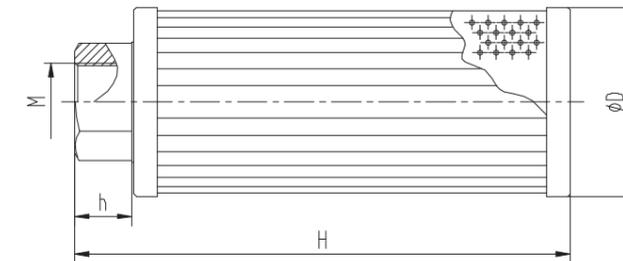
SPECIFICATIONS

Type of Construction: Inside Tank Mounted
Max Pressure: 0.8MPa
Flow Range: 40~250L/min
Connection: Thread
Operating Temp: -40°C~+120°C
Filter Media: Glass Fiber
Filtration Accuracy: 3~30μm
By-pass Valve Cracking Pressure: 0.2MPa
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

MODEL CODE



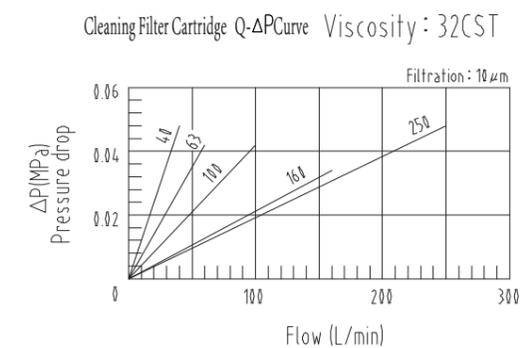
MOUNTING DIMENSION



TECHNICAL PARAMETER

Model	Parameter		M	Size(mm)		
	Flow Rate(L/min)	Filtr (μ m)		D	H	h
SO-40 x *	40	3 5 10 20 30	M27	70.5	95	14
SO-63 x *	63		M33	80	150	25
SO-64 x *	64		PT 3/4	91	110	11
SO-80 x *	80		R 1	108	152	12
SO-90 x *	90		M48	95	165	14.5
SO-100 x *	100		M33	80	230	25
SO-110 x *	110		NPT 1	95	180	15
SO-140 x *	140		M48	95	230	14.5
SO-160 x *	160		M48	95	255	14.5
SO-200 x *	200		M48	95	250	14.5
SO-250 x *	250		M48	95	300	14.5

ELEMENT PRESSURE DROP AGAINST FLOW CURVES



8、RF210 Return Filter

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

SPECIFICATIONS

Type of Construction: Inline Mounted

Max Pressure: 1.0MPa

Flow Range: 100L/min

Connection: Thread

Operating Temp: -40°C~+120°C

Filter Media: Glass Fiber

Filtration Accuracy: 10μm

Pressure Indicator Option: 0.35MPa

For Visual and Electrical Indicator Use

By-pass Valve Cracking Pressure: 0.4MPa

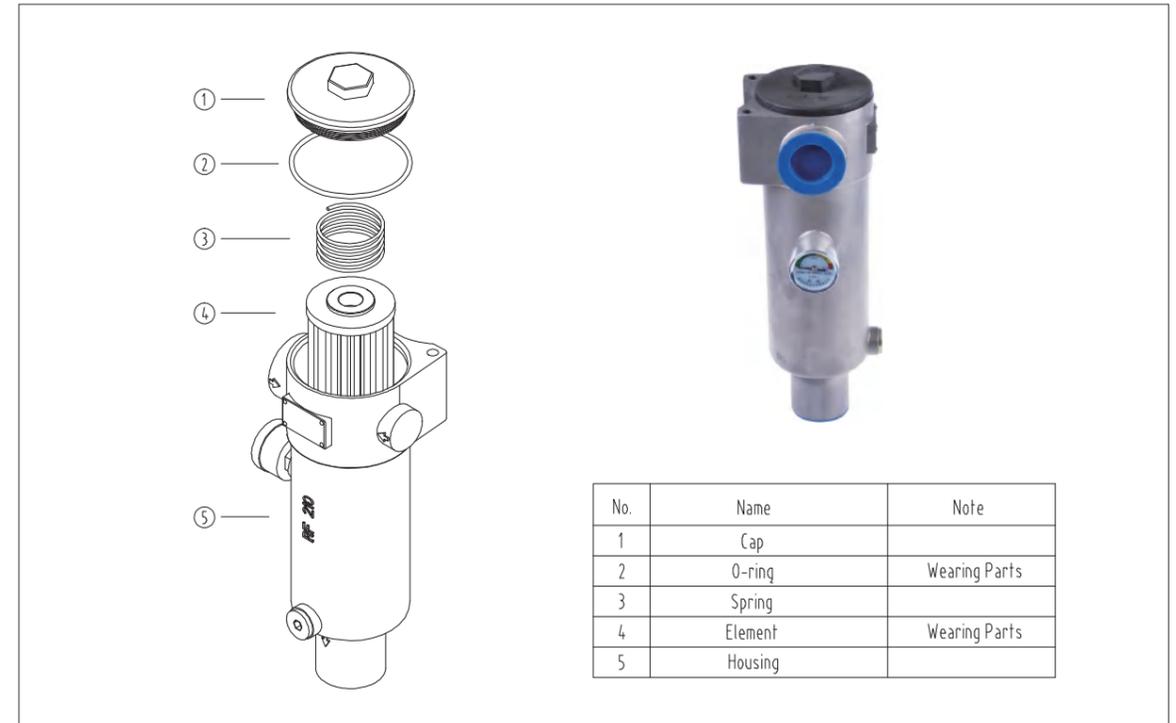
Bowl Housing: Aluminum Alloy, PA6

Sealing Material: NBR

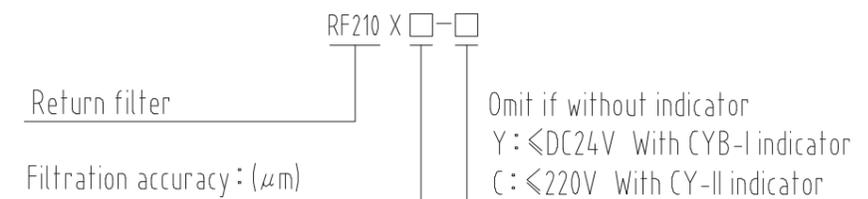
Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.

Model of Element: 300176

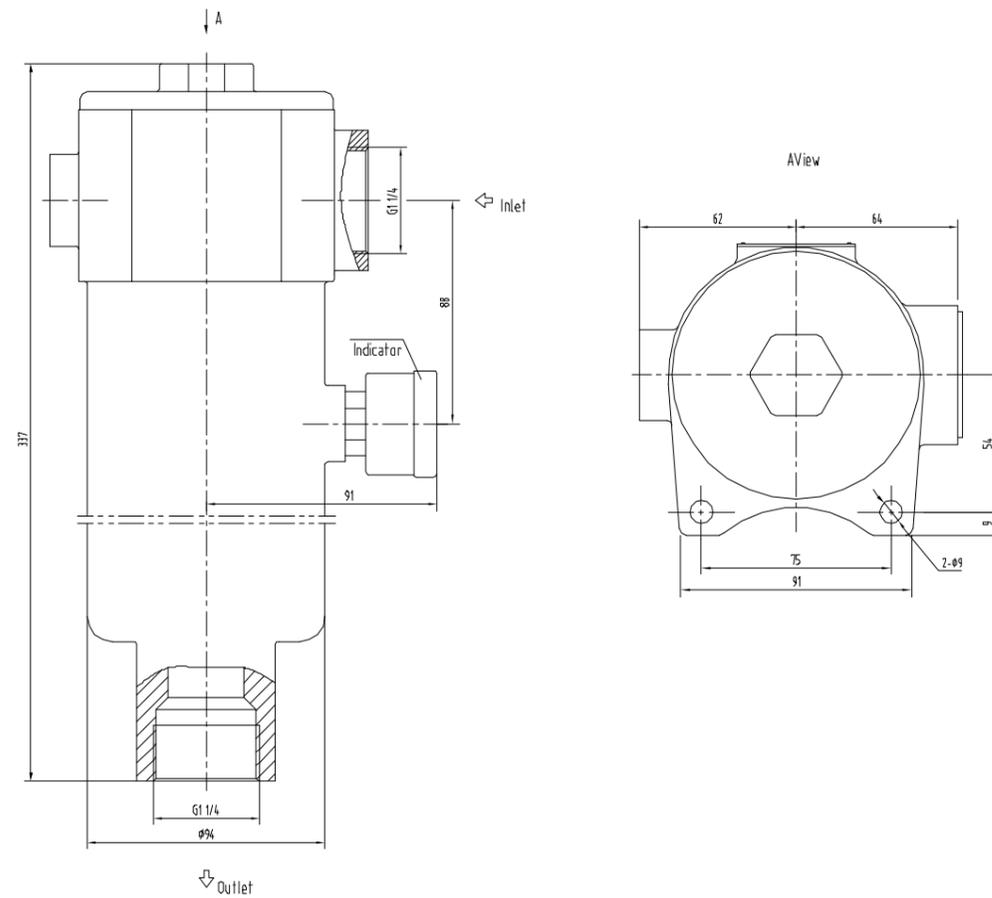


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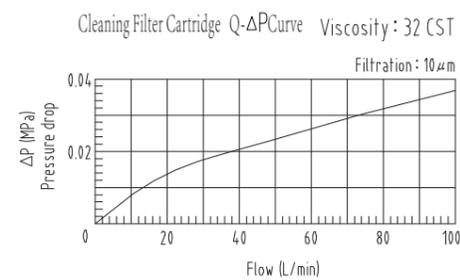


9、SP Spin-on Line Filter

MOUNTING DIMENSION

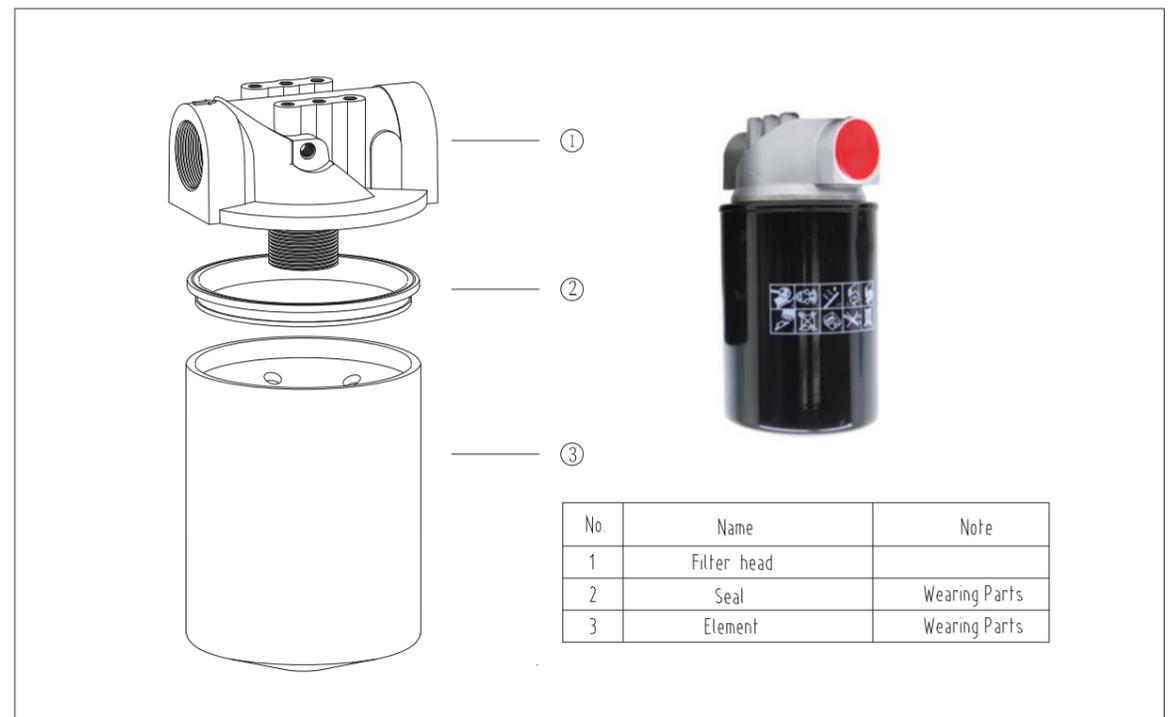


ELEMENT PRESSURE DROP AGAINST FLOW CURVES

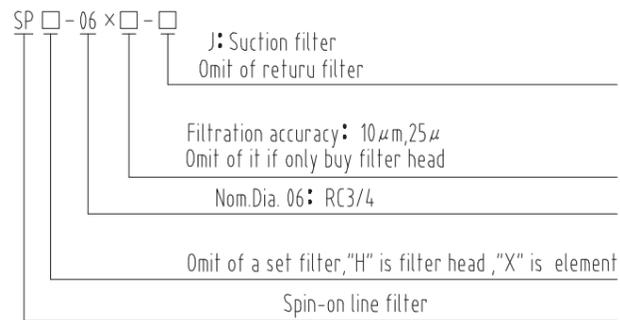


SPECIFICATIONS

Type of Construction: Inline Mounted
Max Pressure: 0.7MPa
Flow Range: 20~320L/min
Connection: Thread
Operating Temp: -30°C~+100°C
Filter Media: Filter Paper
Filtration Accuracy: 10~25 μ m
Pressure Indicator Option: Suction -0.018MPa
Return 0.2MPa
By-pass Valve Cracking Pressure: 0.25MPa
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

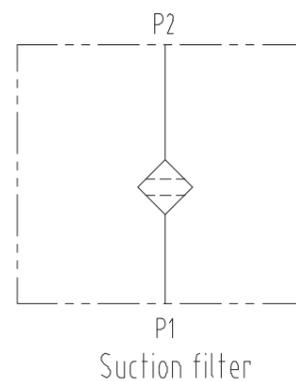
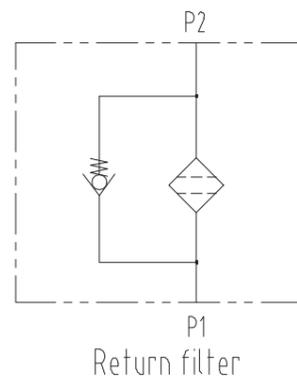


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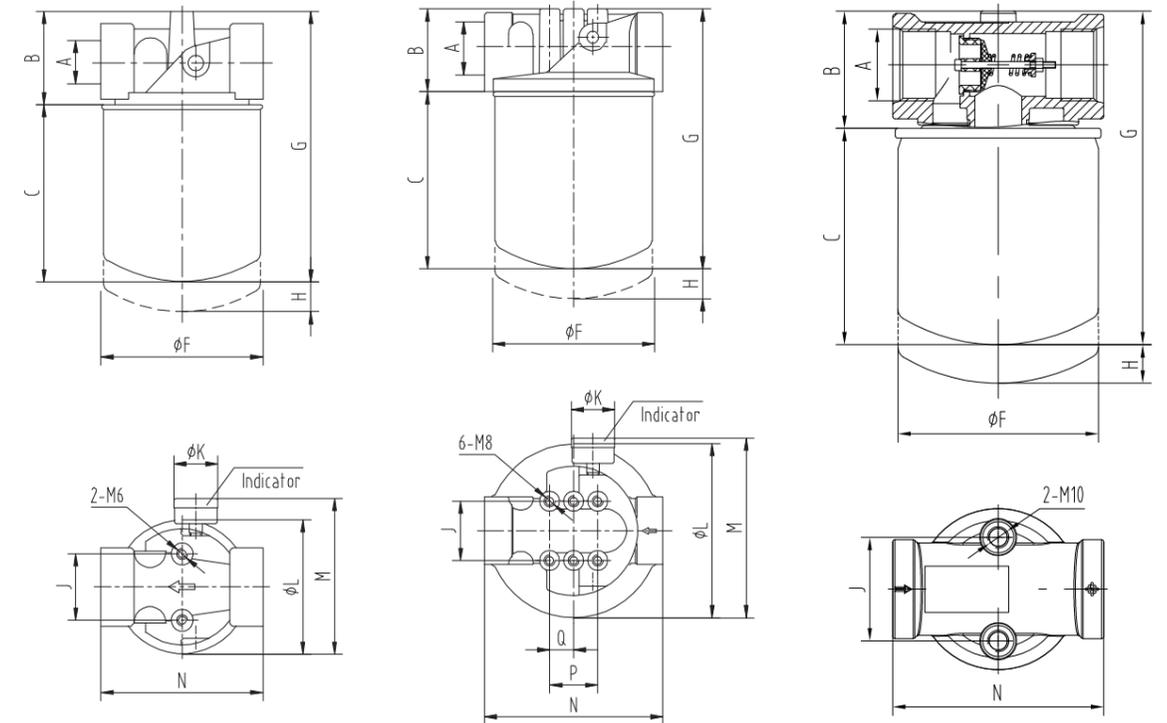


TECHNICAL PARAMETER

Model	Blow up Press. (Mpa)	Max. Flow (L/min)		Filtr. (μm)	Weight (Kg)	Screw	Model of Filter Head		Model of Element
		Return Oil	Suction				Return Oil	Suction	
SP-06×10	2.0	60	20	10	0.76	R3/4	SPH-06	SPH-06-J	SPX-06×10
SP-06×25		70	25	25	0.76	R3/4			SPX-06×25
SP-08×10		60	20	10	0.76	R1	SPH-08	SPH-08-J	SPX-08×10
SP-08×25		70	25	25	0.76	R1			SPX-08×25
SP-10×10		144	42	10	1.88	R1 1/4	SPH-10	SPH-10-J	SPX-10×10
SP-10×25		160	50	25	1.88	R1 1/4			SPX-10×25
SPA-10×10		200	58	10	2.7	R1 1/4			SPAX-10×10
SPB-10×10		320	80	10	3.0	R1 1/4			SPBX-10×10
SPFB-60×10		60		10	0.7	15/16-12UN	GRF-60-1		



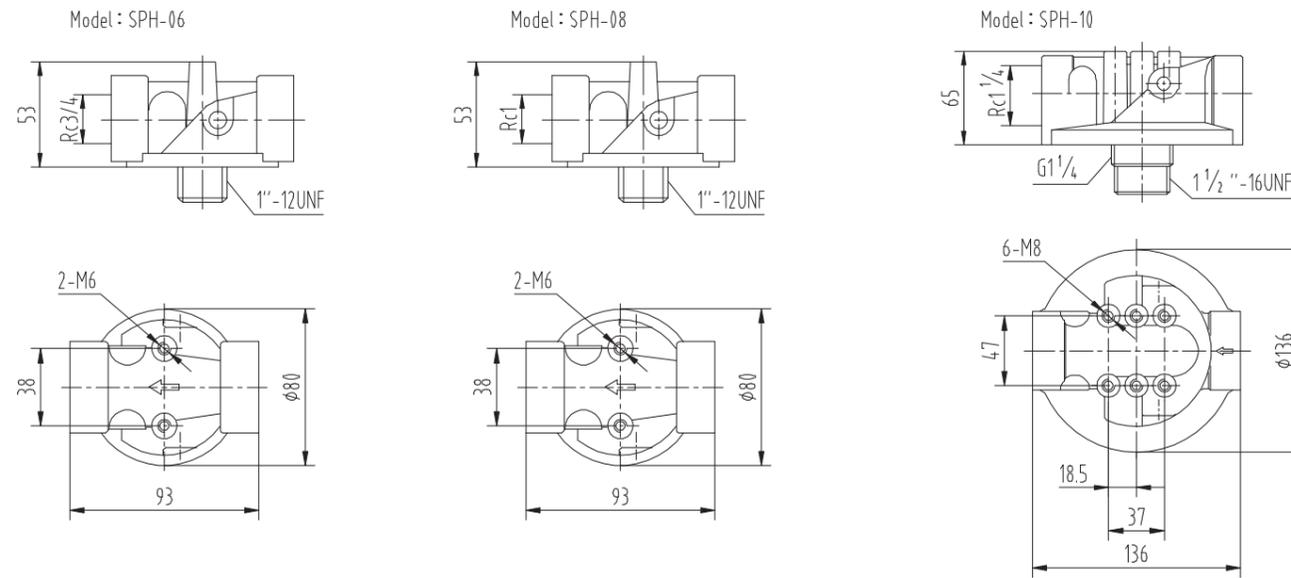
MOUNTING DIMENSION



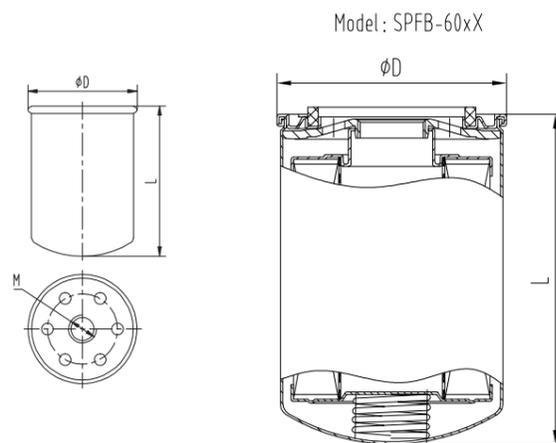
Model	A	Size(mm)											
		B	C	F	G	H	J	K	L	M	N	P	Q
SP-06	R3/4"	53	135	93	188	25	38	42	80	105	93		
SP-08	R1"	53	135	93	188	25	38	42	80	105	93		
SP-10	R1 1/4"	62	176	125	238	45	47	42	136	150	136	37	18.5
SPA-10	R1 1/4"	62	231	125	293	45	47	42	136	150	136	37	18.8
SPB-10	R1 1/4"	62	270	125	330	45	47	42	136	150	136	37	18.5
SPFB-60	15/16-12UN	54.5	132	93.5	186.5	20	48.2		75		98.4		

10、SL Series Oil Return Filter

Spin-on Filter Head



Spin-on Filter Element



Model	Size(mm)		M
	L	D	
SPX-06×*	135	93	1"-12UNF
SPX-08×*	135	93	1"-12UNF
SPX-10×*	178	125	1 1/2"-16UNF
SPAX-10×10	230	125	G1 1/4
SPBX-10×10	270	125	1 1/2"-16UNF
SPFB-60×10X	132	95	1 1/8"-16UN

Note: * represents filtration accuracy

SPECIFICATIONS

Type of Construction: Inside Tank Mounted

Flow Range: 450~1700L/min

Operating Temp: -40°C~+120°C

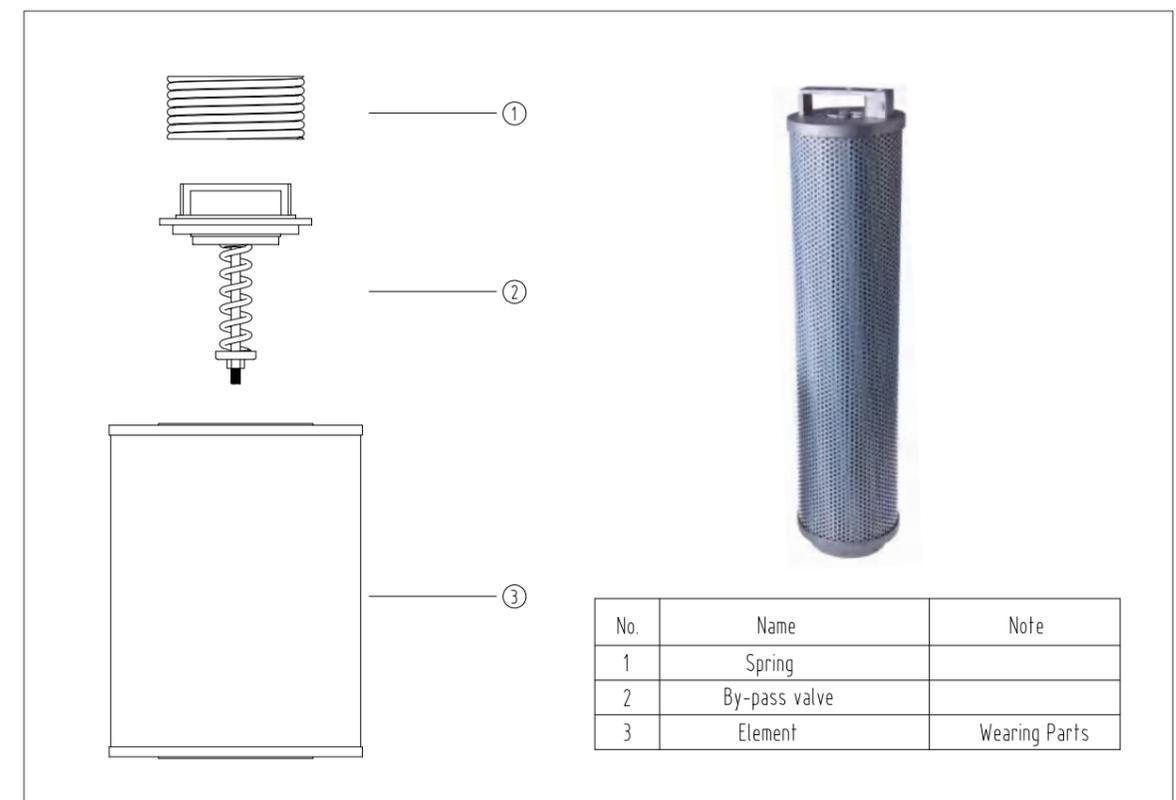
Filter Media: Glass Fiber

Filtration ratio: $\beta \geq 200$, filtration efficiency: $\eta \geq 99.5\%$

By-pass Valve Cracking Pressure: 0.25MPa

Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.

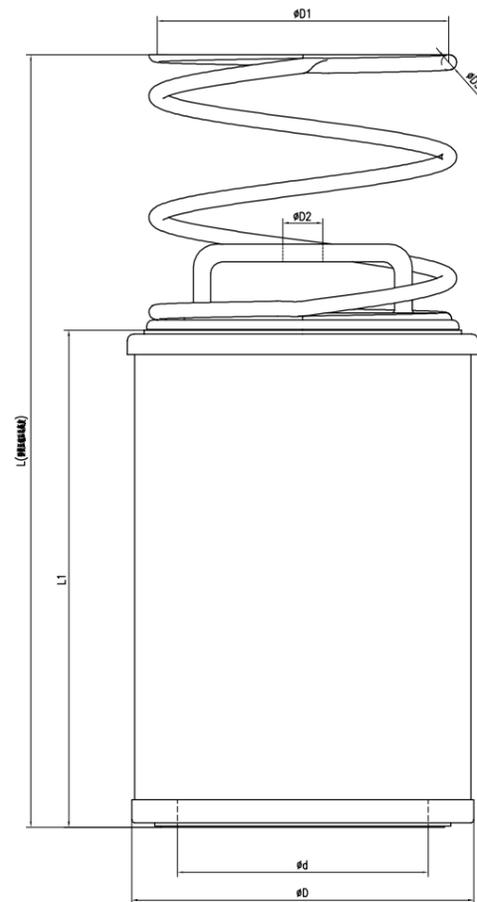


TECHNICAL PARAMETER

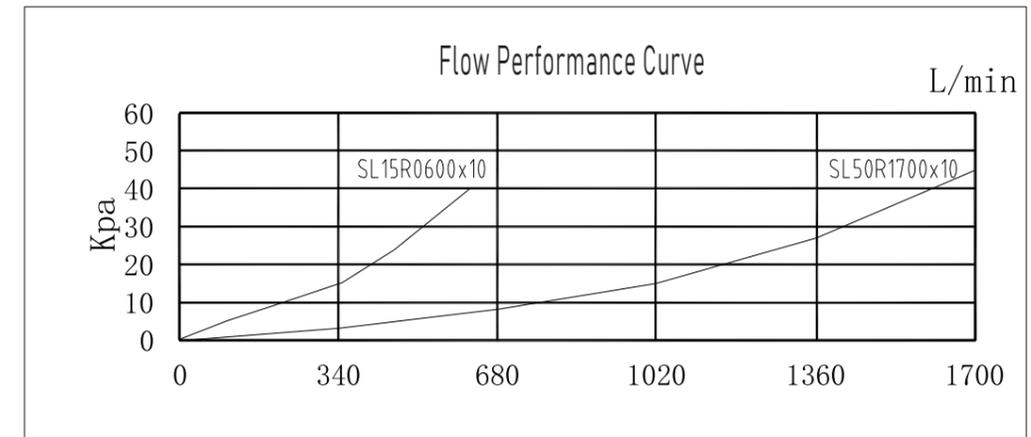
Model	Flow Rate(L/min)	Filtr (μ m)	Initial pressure drop (Mpa)	Filtr (μ m)
SL15R0450	450	5	0.6	SL15R0450X
SL15R0600	600		0.75	SL15R0600X
SL15R0800	800	10	0.6	SL15R0800X
SL20R01000	1000	20	0.6	SL15R01000X
SL30R01300	1300	30	0.75	SL15R01300X
SL50R01700	1700		0.75	SL15R01700X

Model	Size(mm)						
	D	d	D1	D2	D3	L	L1
SL15R0450	150	110	112.5	17.5	6.5	570	455
SL15R0600	150	110	112.5	17.5	6.5	460	395
SL15R0800	150	110	112.5	17.5	6.5	620	505
SL20R01000	170	110	112.5	17.5	6.5	613	495
SL30R01300	170	110	112.5	17.5	6.5	660	595
SL50R01700	220	110	112.5	17.5	6.5	660	595

MOUNTING DIMENSION



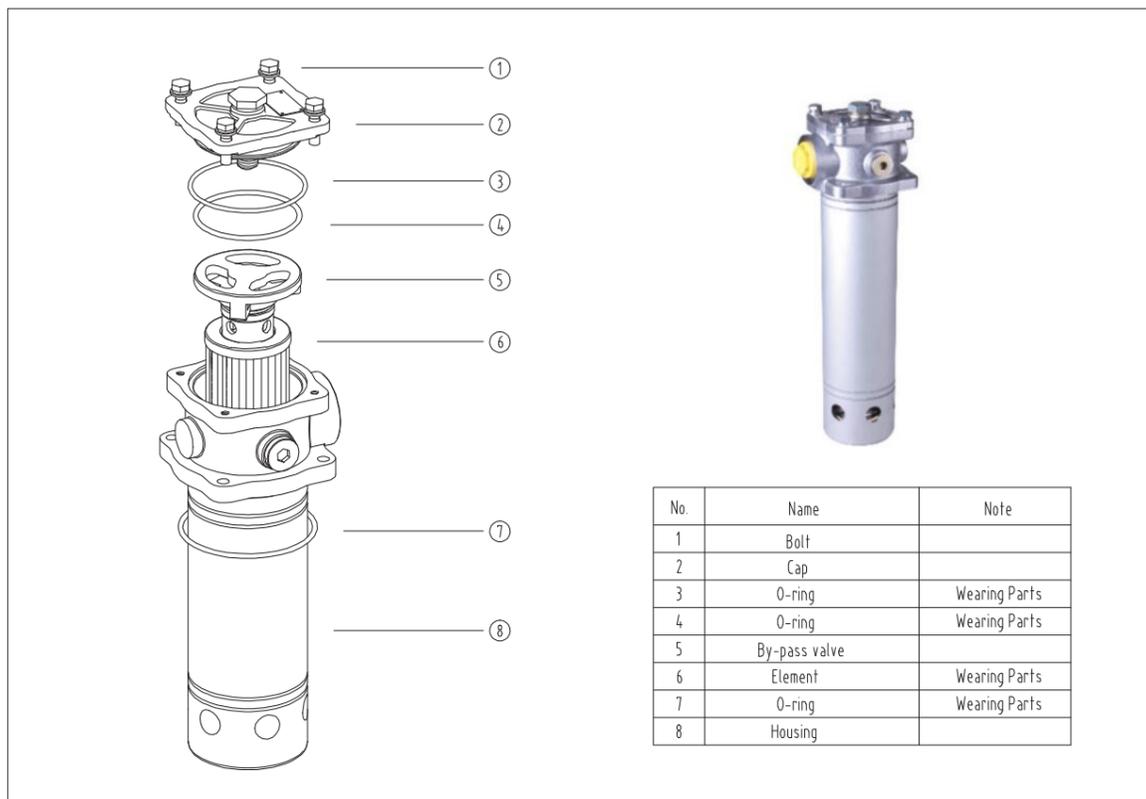
ELEMENT PRESSURE DROP AGAINST FLOW CURVES



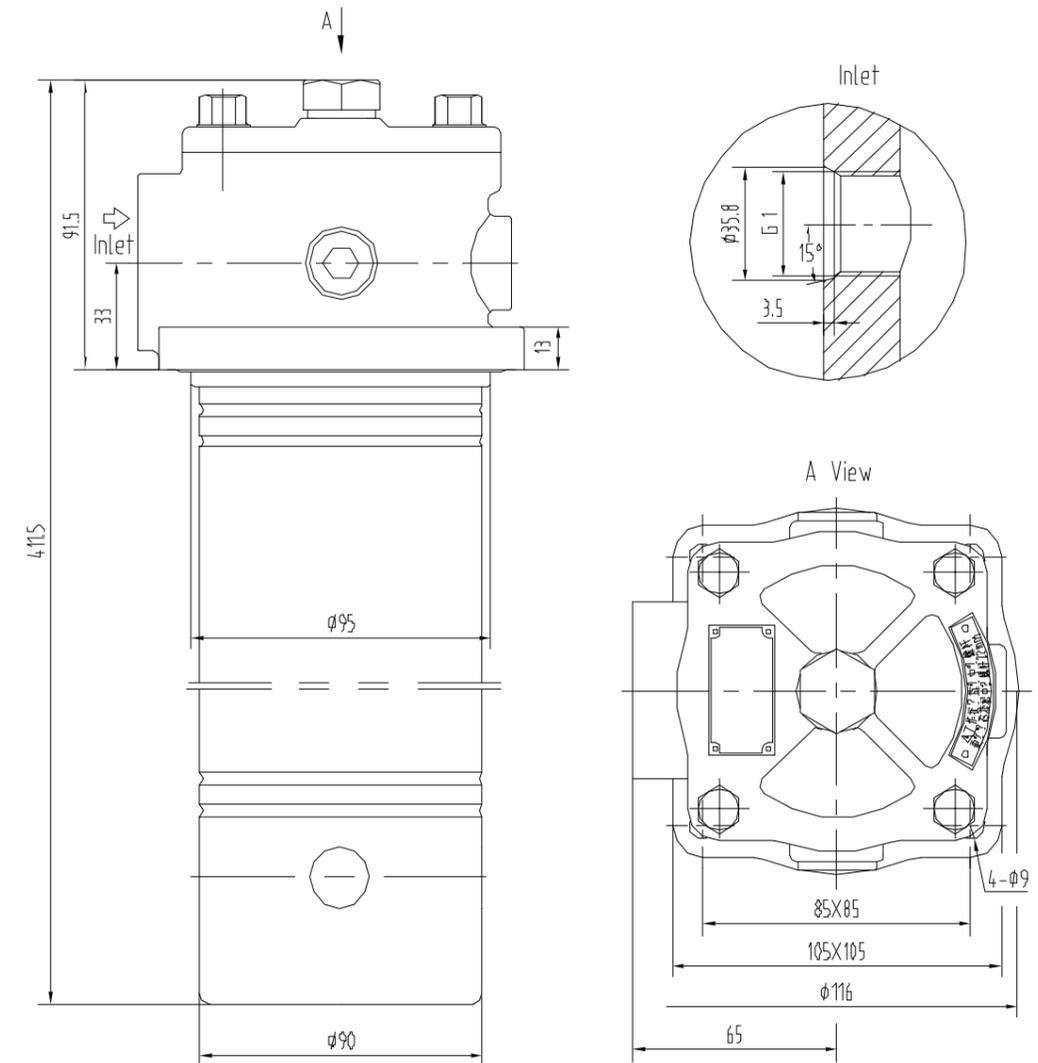
11、EF-398C Return line Filter

SPECIFICATIONS

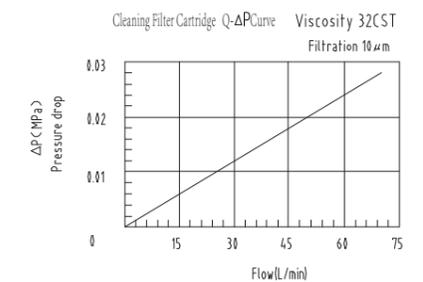
Type of Construction: Inline Mounted
Operating Pressure: 1.6MPa
Flow Range: 70L/min
Connection: Thread
Operating Temp: -40°C~+120°C
Filter Media: Glass Fiber
Filtration Accuracy: 10µm
By-pass Valve Cracking Pressure: 0.1MPa
Bowl Housing: Aluminum Alloy
Sealing Material: NBR
Model of element: EF-398CX
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.



MOUNTING DIMENSION



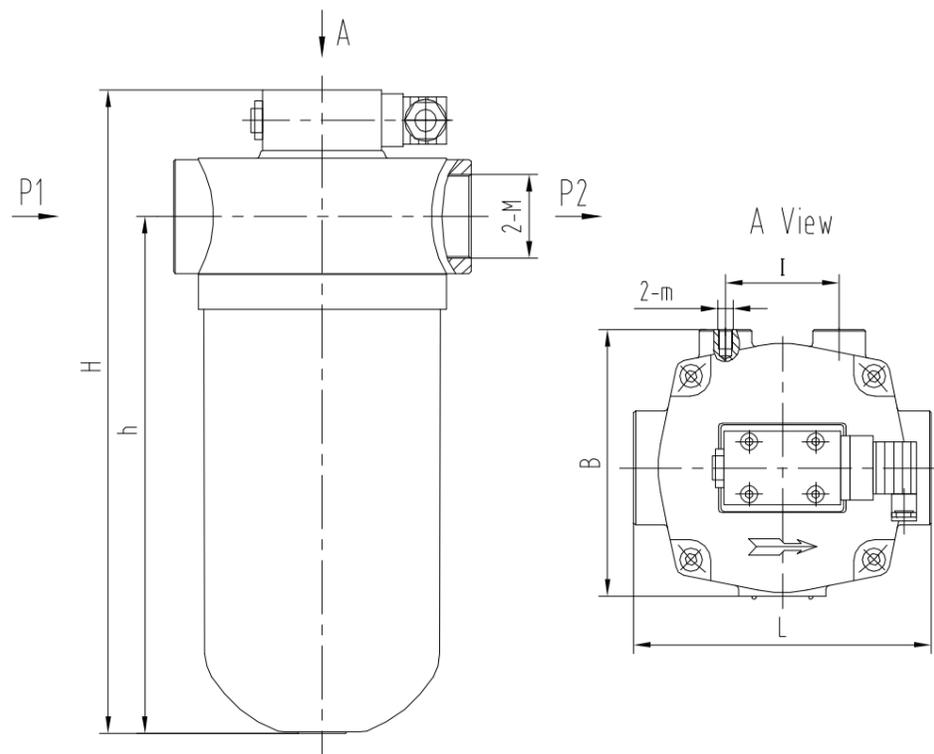
ELEMENT PRESSURE DROP AGAINST FLOW CURVES



MOUNTING DIMENSION

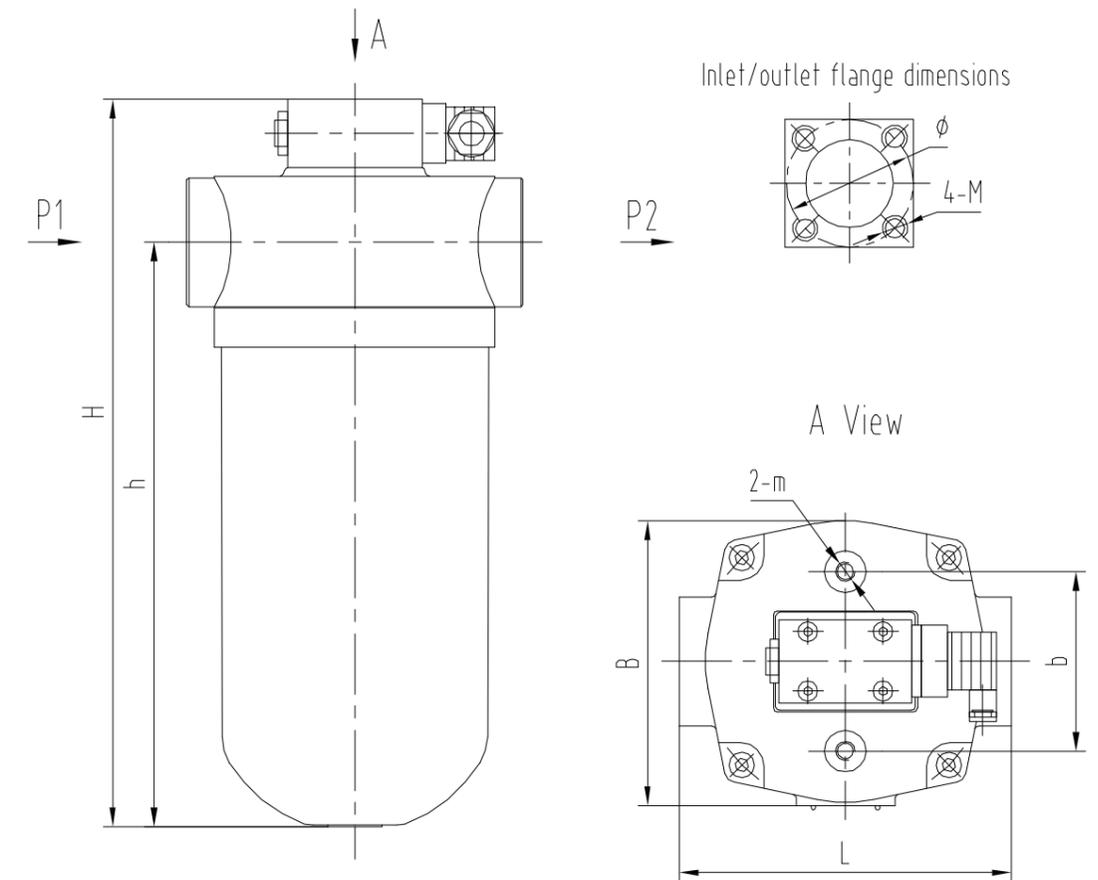
1. Threaded

Model	Size(mm)						M	m
	H	h	L	B	D	I		
ZU-A10*P	203.5	146.5	104	101	φ75	30	M18×1.5	M6
ZU-A25*P	228	169	118	112	Φ87.6		M22×1.5	
ZU-A40*P	288	229					M27×2	
ZU-A63*P	298	233.5	150	133	φ108	55	M33×2	M8
ZU-A100*P	400	333	150	135			M42×2	
ZU-A160*P	430	357.5	170	153	φ126.6	65	M48×2	



2. Flanged

Model	Size(mm)								M
	H	h	L	B	b	D	m	φ	
ZU-A250×*FP	552	473.5	182	168	115	φ161	M10	74	M6
ZU-A400×*FP	708	624	196	179	140	φ172.5	M12	94	M8
ZU-A630×*FP	853.5	754.5	224	214	160	Φ205	M12	115	M10
ZU-A800×*FP	1024	936	260	250	180	φ212	M12	125	M12
ZU-A1000×*FP	1094	1001						135	

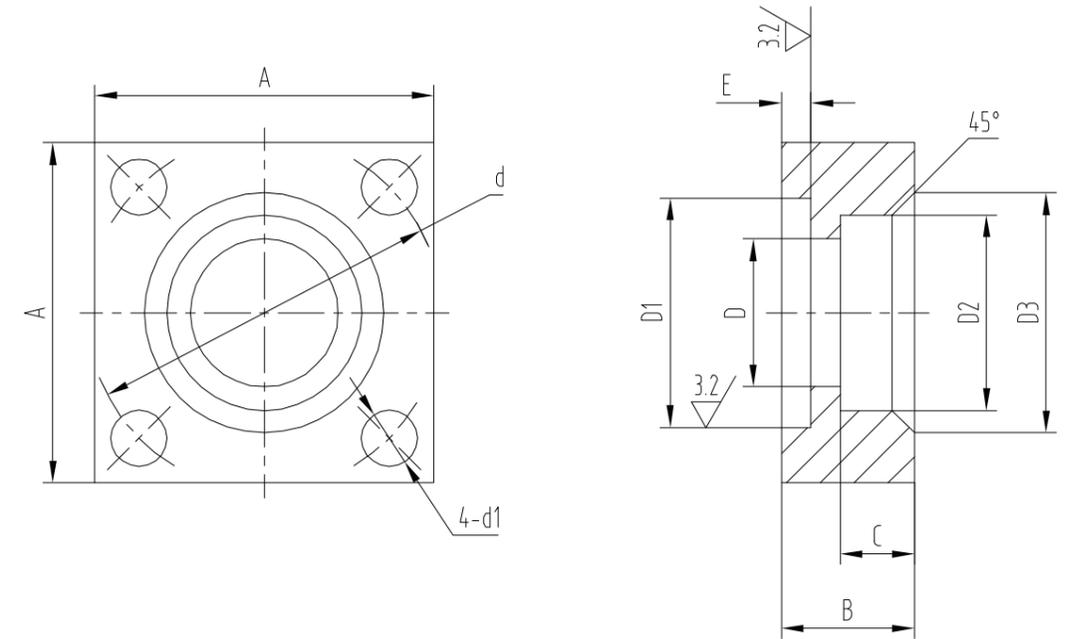
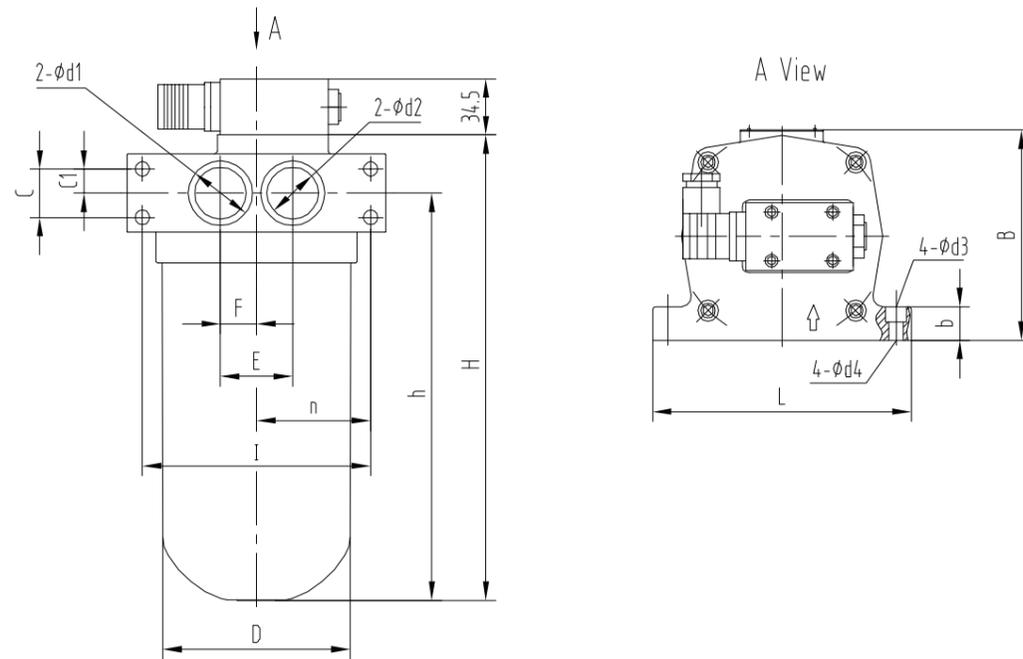


3. Plated

Model	Size(mm)															
	H	h	L	B	b	D	I	n	E	F	C	C1	Φd1	Φd2	Φd3	Φd4
ZU-A25×*BP	202	182	132	104	17	95	116	58	30	10	20	10	28	20	11	7
ZU-A40×*BP	262	242														
ZU-A63×*BP	285	249	161	130	21	118	142	71	45	22.5	30	15	40	32	13.5	9
ZU-A100×*BP	390	354														
ZU-A160×*BP	407	376	180	164	134	162	81	50	25	42	21	45	38	15	9	
ZU-A250×*BP	522	486	210	202	150	188	94	66	33	48	24	60	50	18	11	
ZU-A400×*BP	669	625	254	214	25	163	228	114	90	45	60	30	75	65	18	13

4. Connecting flange, please manufacture the product refer to the following size

Model	Size(mm)										"O"ring for flange	Screws for flange
	A	B	C	D	D1	D2	D3	d	E	d1		
ZU-A250×*FP	75	15	9	Φ50	Φ60 ⁰ _{-0.06}	Φ54 ^{+0.2} ₀	Φ60	Φ74	2.4 ⁰ _{-0.1}	Φ6.7	Φ60×3.1	M6×25
ZU-A400×*FP	85			Φ65	Φ75 ⁰ _{-0.06}	Φ70 ^{+0.2} ₀	Φ76	Φ94		Φ9	Φ75×3.1	M8×30
ZU-A630×*FP	115			Φ80	Φ90 ⁰ _{-0.07}	Φ85 ^{+0.2} ₀	Φ91	Φ115		Φ11	Φ90×3.1	M10×30
ZU-A800×*FP	125			Φ90	Φ100 ⁰ _{-0.1}	Φ98 ^{+0.2} ₀	Φ104	Φ125		Φ13	Φ100×3.1	M12×35
ZU-A1000×*FP	135			Φ100	Φ110 ⁰ _{-0.1}	Φ108 ^{+0.2} ₀	Φ114	Φ135			Φ110×3.1	

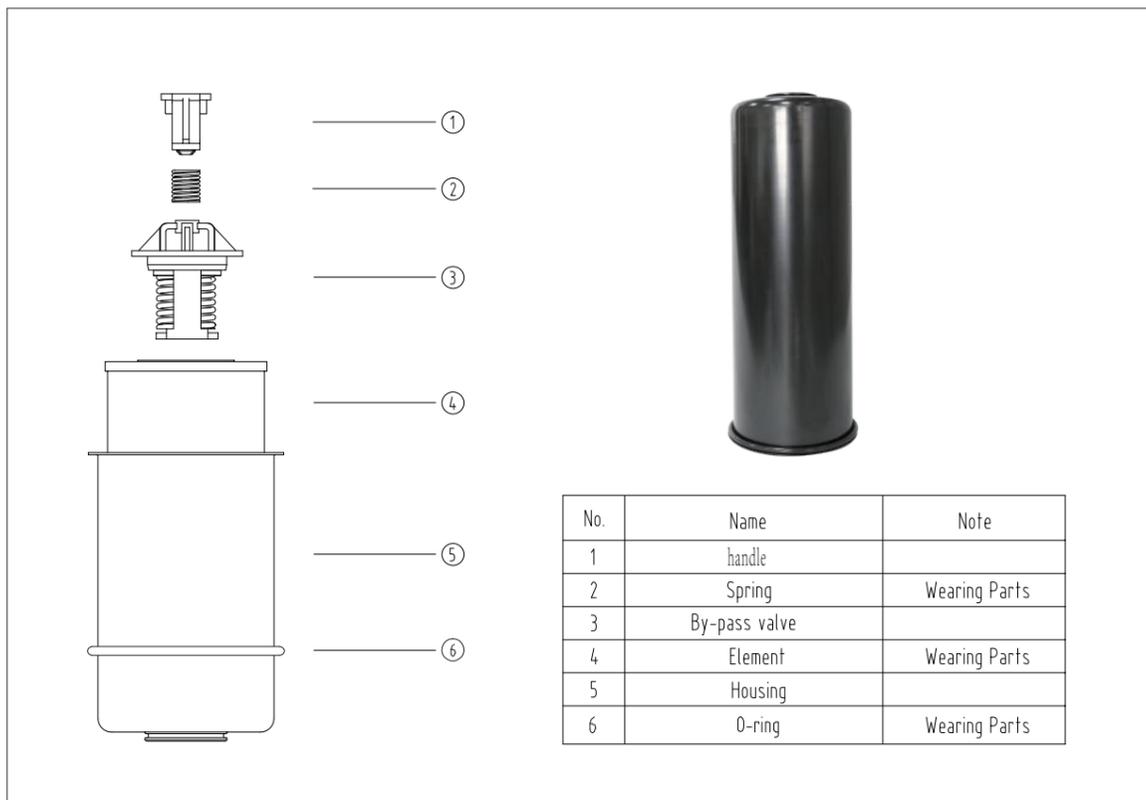


Note: Installation of screws recommended GB/T70.1

13、MRWA12 Series Oil Return Filter

SPECIFICATIONS

Type of Construction: Top of the tank
Flow Range: 200~800L/min
Operating Temp: -40°C~+120°C
Filter Media: Glass Fiber
Filtration ratio: $\beta \geq 200$, filtration efficiency: $\eta \geq 99.5\%$
By-pass Valve Cracking Pressure: 0.25MPa
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

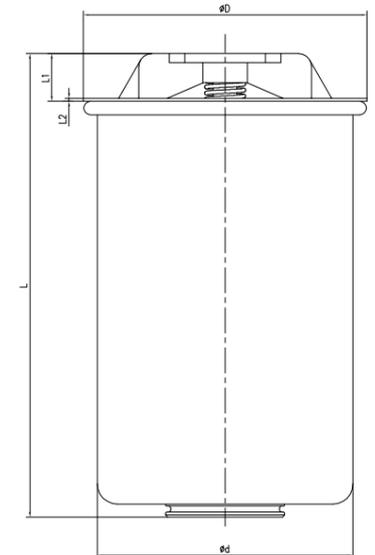


TECHNICAL PARAMETER

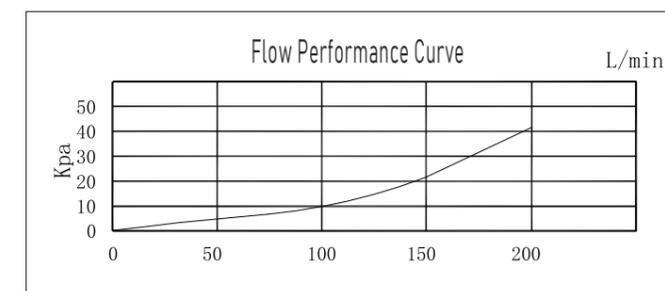
Model	Flow Rate(L/min)	Filtr (μ m)	Initial pressure drop (Mpa)	Filtr (μ m)
MRWA1217F10Y0N	200	10	0.25	MEA1217RN3F10N(S)
MRWA1234F10Y0N	375		0.25	MEA1234RN3F10N(S)
MRWA1260F10Y0N	800		0.25	MEA1460RN2F10M(S)

MOUNTING DIMENSION

Model	Size(mm)				
	D	d	L	L1	L2
MRWA1217F10Y0N	142	131	230.5	23	1.5
MRWA1234F10Y0N	142	131	397.5	23	1.5
MRWA1260F10Y0N	167	155	672	21	1.5



ELEMENT PRESSURE DROP AGAINST FLOW CURVES



SUCTION AND RETURN FILTER

Specially designed for closed loop system, both enjoy the function of return and suction, which keeps the hydraulic oil system clean.

1、 TNRS Return –Suction Filter

FEATURES

Contamination Indicator

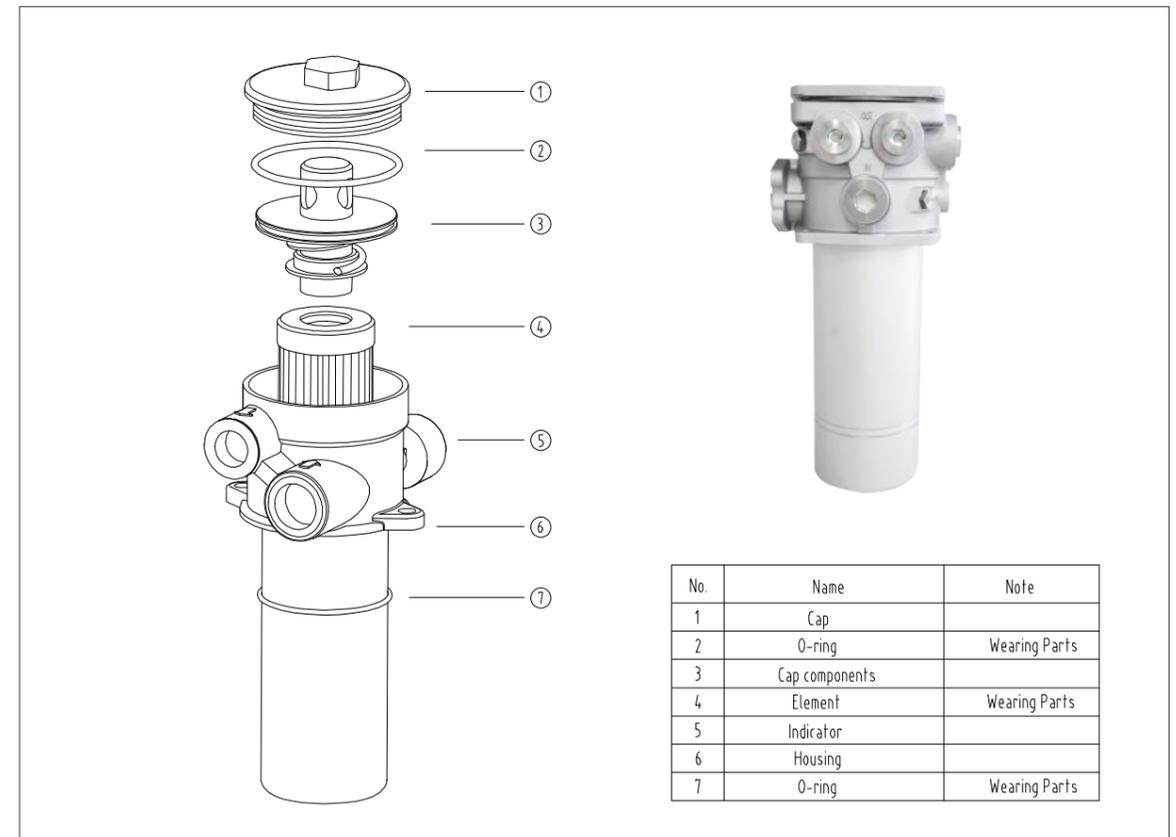
Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

Magnetic filter

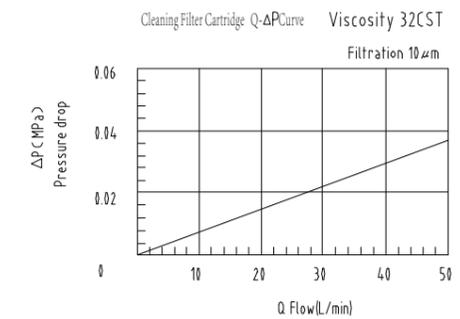
By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

SPECIFICATIONS

Type of Construction: Tank Top Mounted
Max Pressure: 1MPa
Connection: Thread
Operating Temp: -40°C~+120°C
Filter Media: Glass Fiber
Bowl Housing: Aluminum Alloy, PA66
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

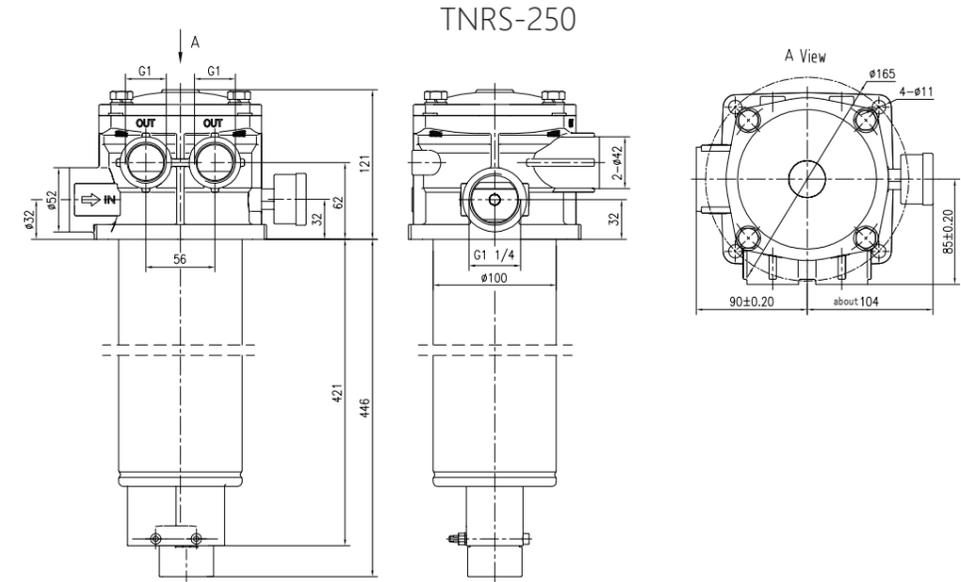


FLOW CURVES



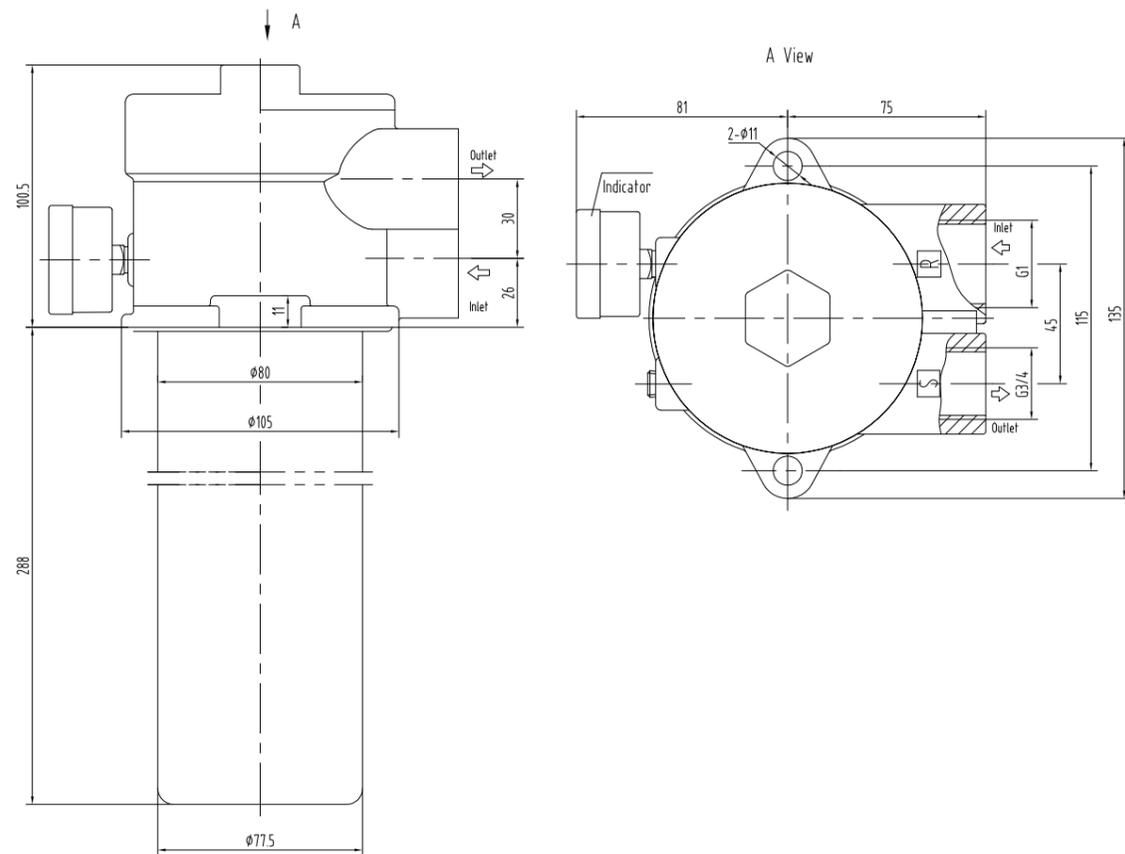
TECHNICAL PARAMETER

Model	Flow Rate (L/min)	Filtr(μm)		Press (MPa)	Indicator Press. (MPa)	By-pass Valve Cracking Pressure (Mpa)	Backpressure valve opening pressure (Mpa)
		Suction	Return				
TNRS-101	50	10	10	1	0.2	0.25	0.05
TNRS-250-C	250	125	10	1	0.2	0.25	0.05
TNRS-400-Y	400	150	10	1	0.3	0.35	0.05

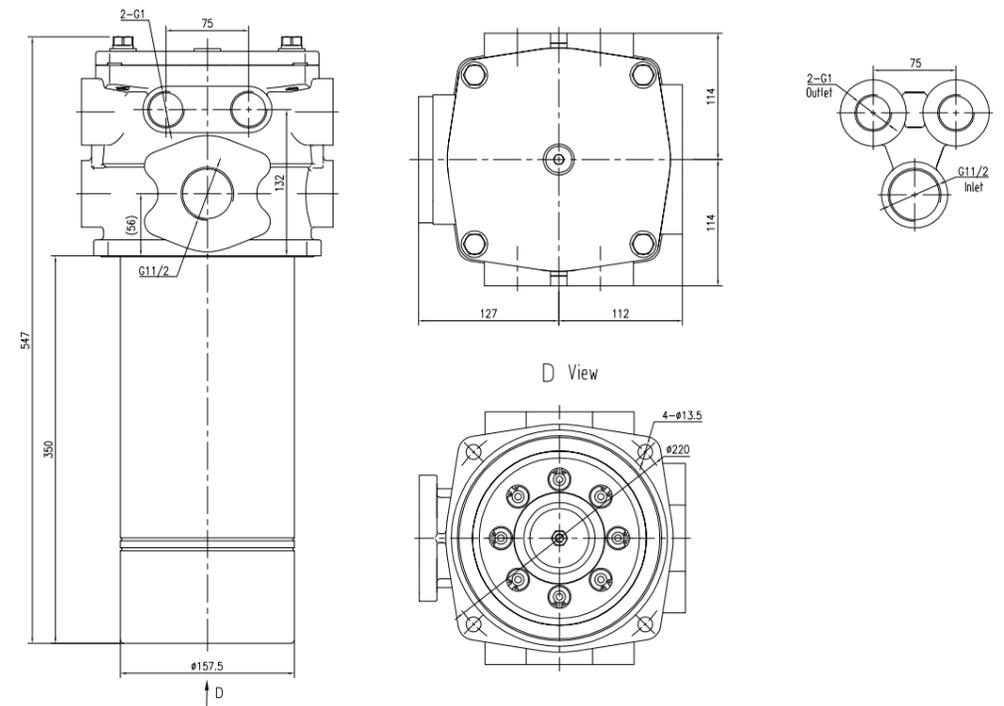


MOUNTING DIMENSION

TNRS-101



TNRS-400



CONTENT

1、SOMD Series Pilot Filter	71
2、XL-FB Series Pilot Filter	74
3、PLFA and PLFB Series Pressure Line Filter(6.3MPa, 16MPa, 32MPa)	77
4、QH Series of Pressure line Filter	82
5、HF Pressure Line Filter Series	86
6、MH Pressure Line Filter Series	88
7、MLF Pressure Filter Series	91
8、SLF Pressure Line Filter Series	94
9、XDF Pilot Line Filter Series	97
10、PFI-H160 Series Line Filter	100
11、WU-E250 Series Line Filter	103
12、ZU-H Series Pressure Line Filter	106
13、XDFI-45 Series Line Filter	118
14、Series Pressure Line Filter	120

1、SOMD Series Pilot Line Filter

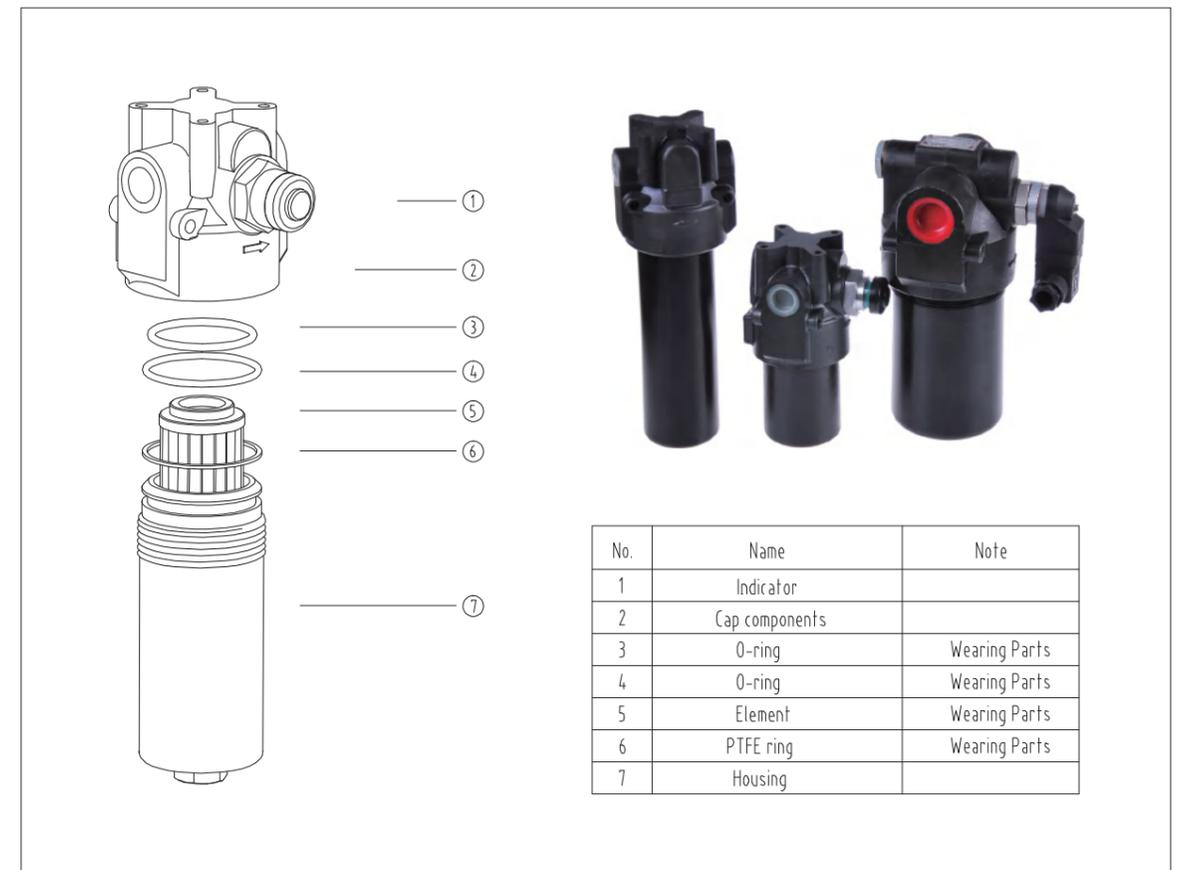
FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

By-pass Function(optional)

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.



2、XL-FB Series Pilot Line Filter

FEATURES

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

Type of Construction: Inline Mounted

Max Pressure: 20MPa

Flow Range: 20~60L/min

Connection: Thread

Operating Temp: -40°C~+120°C

Pressure Indicator Option: 0.5MPa

Filter Media: Glass Fiber

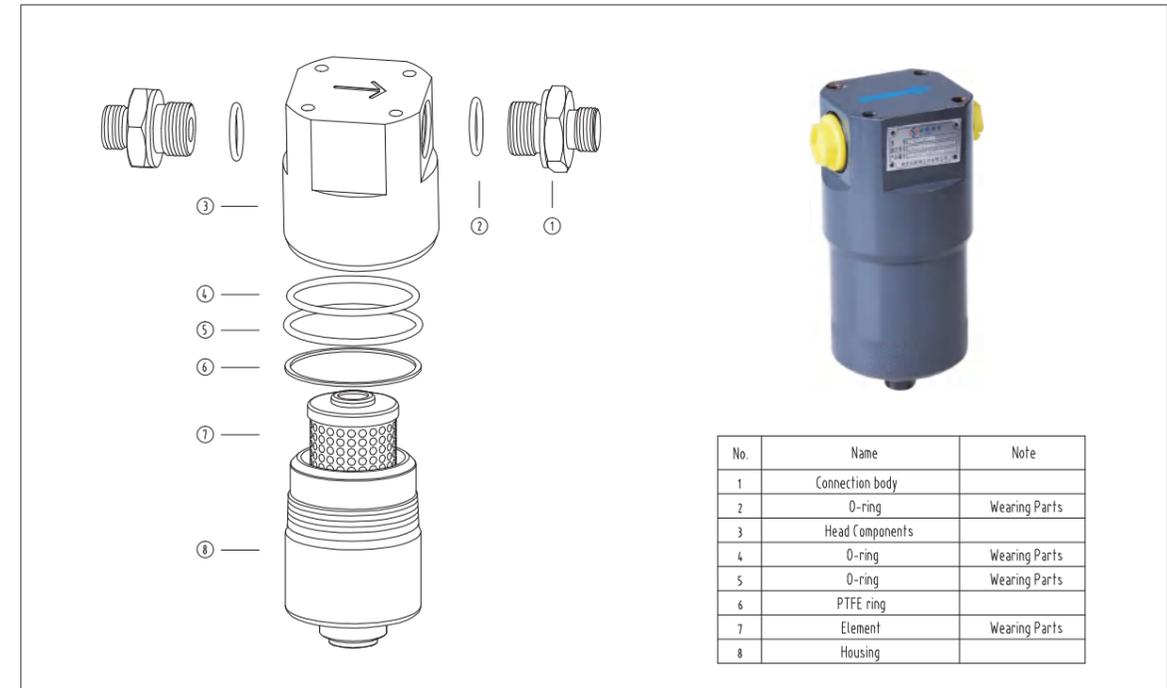
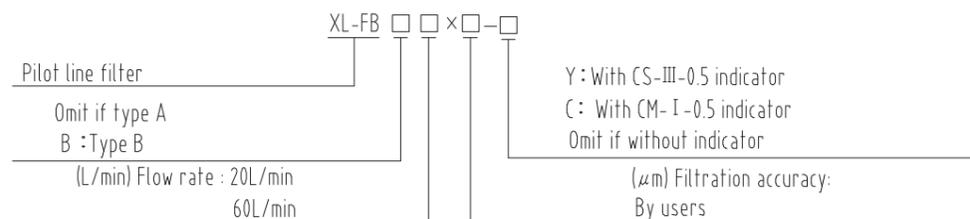
Bowl Housing: Steel

Sealing Material: NBR

Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.

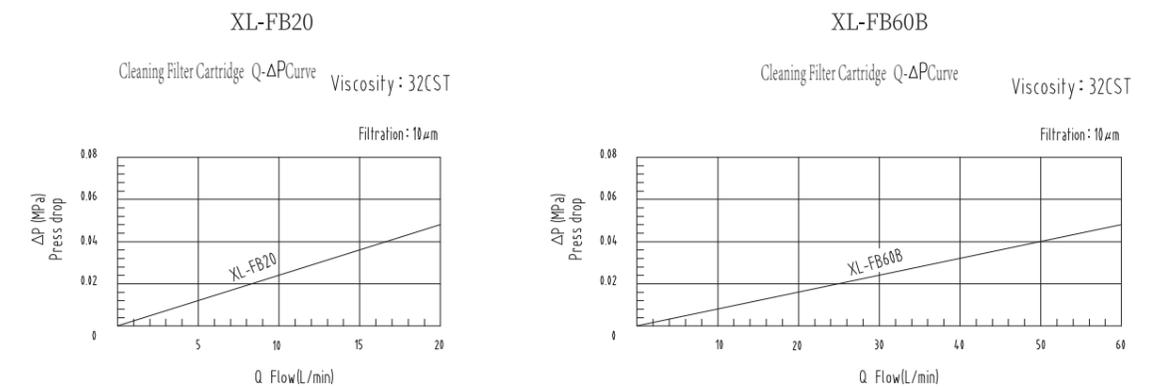
MODEL CODE



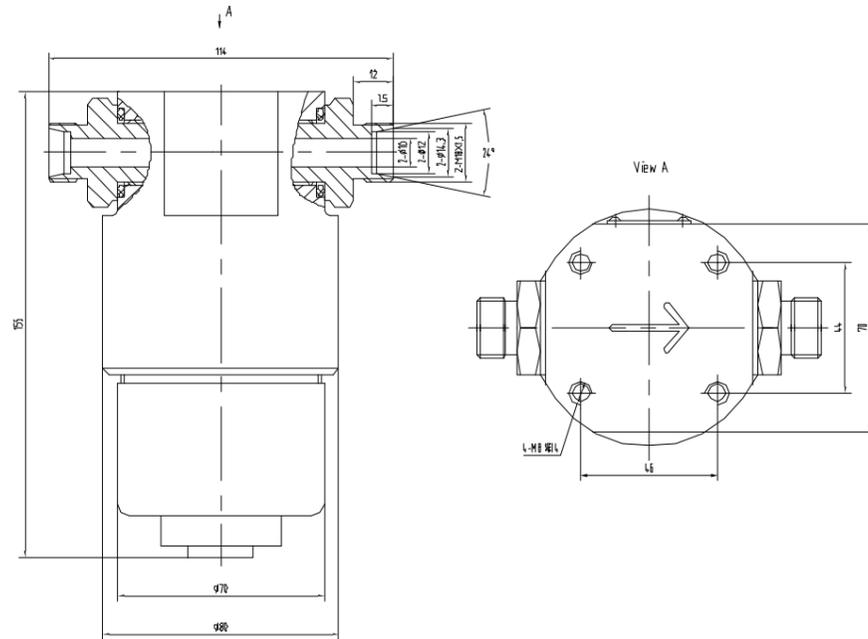
TECHNICAL PARAMETER

Model	Flow Rate(L/min)	Filtr. (μ m)	Model of Filter Element
XL-FB20×*	20	3, 5, 10, 20, 30	XL-FB20X×*
XL-FB60B×*	60		XL-FB60BX×*

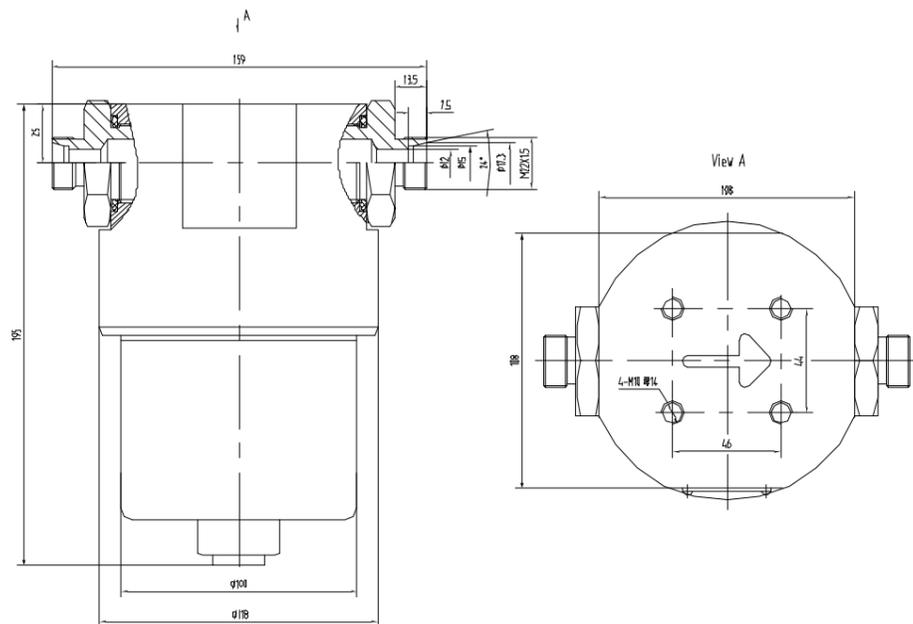
ELEMENT PRESSURE DROP AGAINST FLOW CURVES



MOUNTING DIMENSION



XL-FB18



XL-FB68

3、PLFA and PLFB Series Pressure line Filter

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

SPECIFICATIONS

Type of Construction: Inline Mounted

Max Pressure: 6.3~32MPa

Flow Range: 30~660L/min

Connection: Flange/Thread

Operating Temp: -40°C~+120°C

Pressure Indicator Option: 0.5MPa

By-pass Valve Cracking Pressure: 0.6MPa

For Visual and Electrical Indicator Use

Filter Media: Glass Fiber

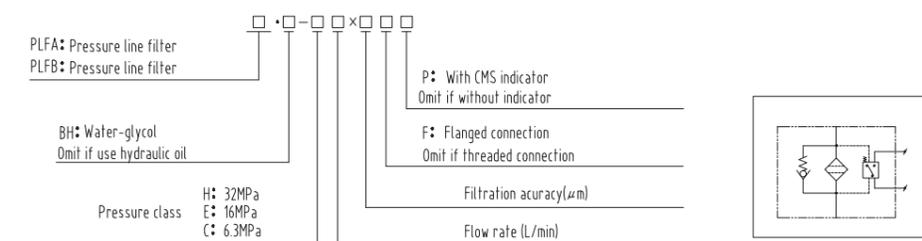
Bowl Housing: Nodular Cast Iron, Steel

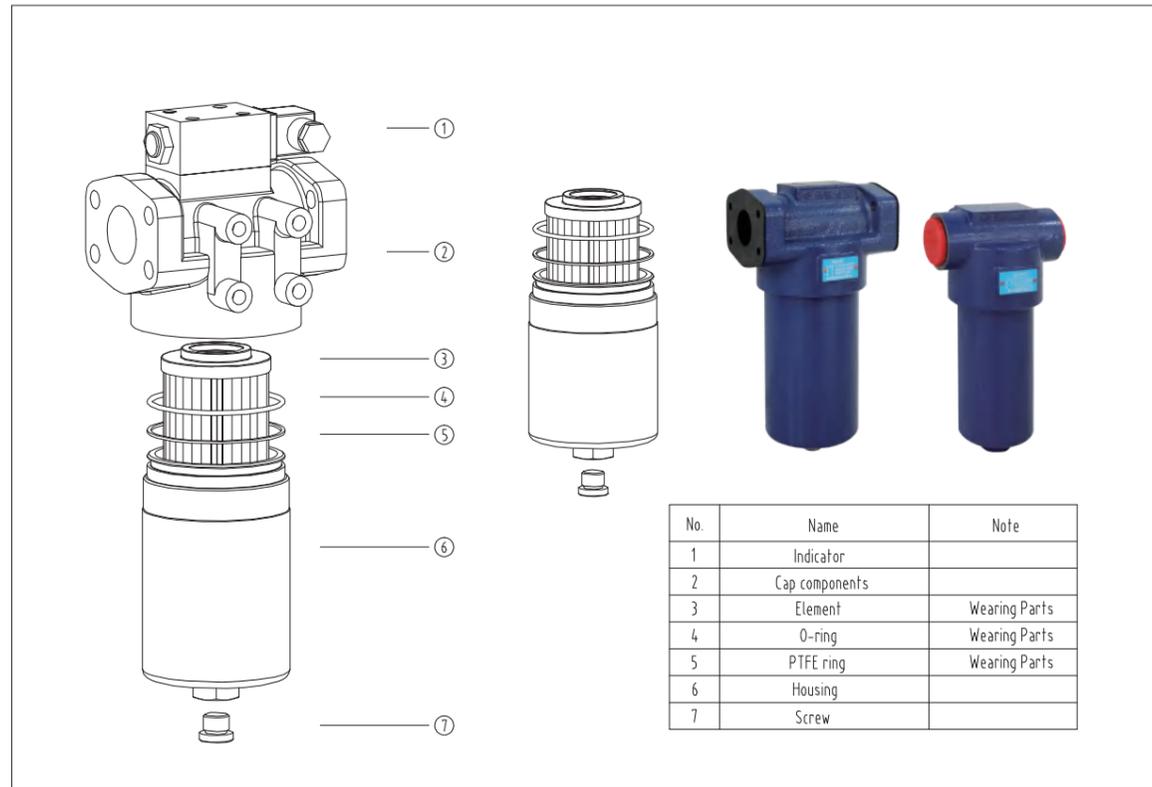
Sealing Material: NBR

Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.

MODEL CODE





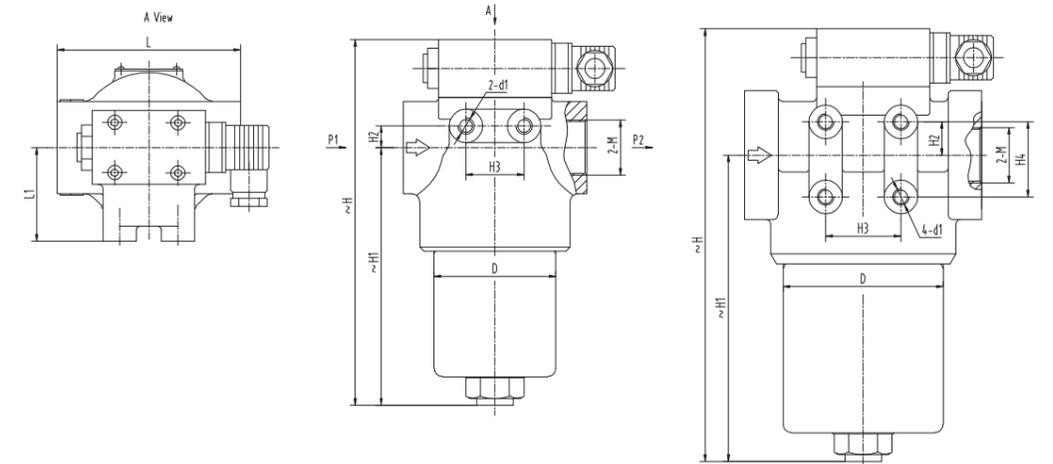
PA: The PLFB series has its mounting holes arranged opposite to those in the PLFA series.

TECHNICAL PARAMETER

Model	Flow Rate (L/min)	Filtr (μm)	(MPa)	Pressure Loss(MPa)		Indicator Power (V/W)	Model of Element	Connection		
				Intial	Max.					
PLFA-□30×*P	30	3	H=32	≤0.1	0.5	24/48	PLFX-30×*	Treaded		
PLFA-□60×*P	60						SO0060D*BN3HC			
PLFA-□110×*P	110						SO0110D*BN3HC			
PLFA-□160×*P	160						SO0160D*BN3HC			
PLFA-□240×*FP	240		E=16				C=6.3	220/50	SO0240D*BN3HC	Flanged
PLFA-□330×*FP	330								SO0330D*BN3HC	
PLFA-□500×*FP	500								SO0500D*BN3HC	
PLFA-□660×*FP	660								SO0660D*BH3HC	
PLFB-H90×*P	90									PLFX-H90×*

MOUNTING DIMENSION

1、Threaded Connection



1、32MPa Pressure Line Filter

Mode	Size(mm)								M	d1
	~H	~H1	H2	H3	H4	L	L1	D		
PLFA-H30×*P	198.5	134	13	35		118	56	73	2-M33×2	2-M10深12
PLFA-H60×*P	214.5	150	13	35		118	56	73	2-M33×2	2-M10深12
PLFA-H110×*P	283.5	219	13	35		118	56	73	2-M42×2	2-M10深12
PLFA-H160×*P	276.5	197	20	50	45	152	77	102	2-M48×2	4-M10深12
PLFB-H90×*P	238.5	173	15	35		110	56	95	2-M33×2	2-M10深18
PLFB-H160×*P	328.5	263	15	35		110	56	95	2-M33×2	2-M12深18

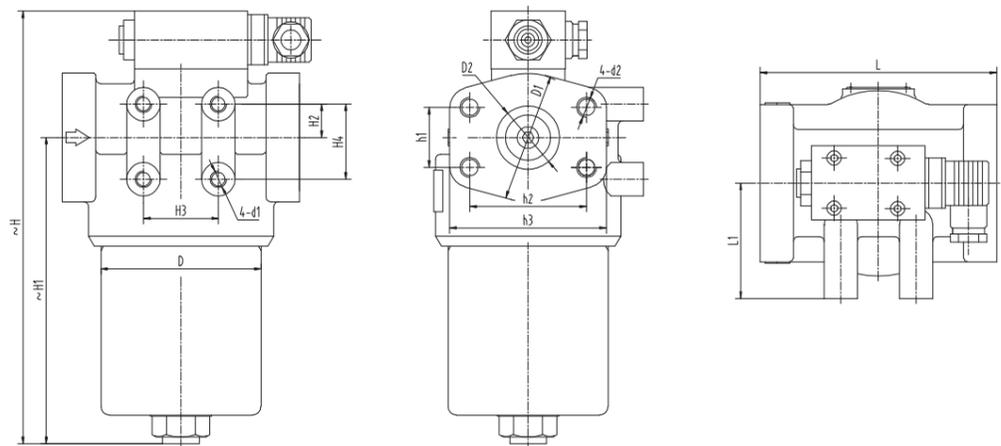
2、16MPa Pressure Line Filter

Model	Size(mm)								M	d1
	~H	~H1	H2	H3	H4	L	L1	D		
PLFA-E30×*P	198.5	134	13	35		110	56	73	2-M33×2	2-M10深12
PLFA-E60×*P	214.5	150	13	35		110	56	73	2-M33×2	2-M10深12
PLFA-E110×*P	283.5	219	13	35		110	56	73	2-M42×2	2-M10深12
PLFA-E160×*P	258.5	183	20	45	45	142	69	96	2-M48×2	4-M10深12

3、6.3MPa Pressure Line Filter

Model	Size(mm)										M
	~H	~H1	H2	H3	H4	L	L1	D	d1		
PLFA-C30×*P	198.5	134	13	35		110	56	73	2-M10深12		2-M33×2
PLFA-C60×*P	214.5	150	13	35		110	56	73	2-M10深12		2-M33×2
PLFA-C110×*P	283.5	219	13	35		110	56	73	2-M10深12		2-M42×2
PLFA-C160×*P	258.5	183	20	45	45	142	69	96	4-M10深12		2-M48×2

2、Flanged Connection



1、32MPa Pressure Line Filter

Model	Size(mm)												d1	d2	
	~H	~H1	H2	H3	H4	h1	h2	h3	D	D1	D2	L			L1
PLFA-H240×*FP	333.5	254	20	50	45	36.5±0.25	79.4±0.25	106	102	89	38	152	77	4-M10深12	4-M16深24
PLFA-H330×*FP	336	257	25	80	60	44.5±0.25	96.8±0.25	135	146	116	50	190	100	4-M12深18	4-M20深26
PLFA-H500×*FP	429	350	25	80	60	44.5±0.25	96.8±0.25	135	146	116	50	190	100	4-M12深18	4-M20深26
PLFA-H660×*FP	503	424	25	80	60	44.5±0.25	96.8±0.25	135	146	116	50	190	100	4-M12深18	4-M20深26

2、16MPa Pressure Line Filter

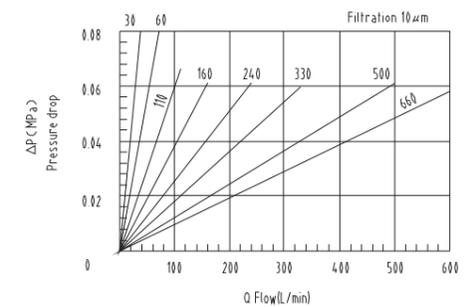
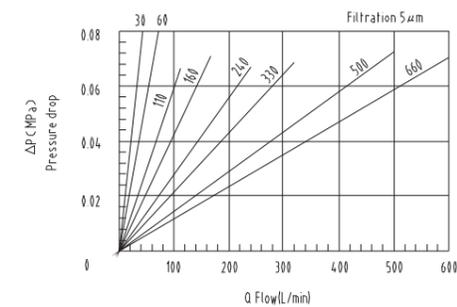
Model	Size(mm)														d1	d2
	~H	~H1	H2	H3	H4	h1	h2	h3	D	D1	D2	L	L1			
PLFA-E240×*FP	315.5	240	20	45	45	35.7±0.25	69.9±0.25	94	96	77	38	142	69	4-M10深12	4-M12深20	
PLFA-E330×*FP	321.5	247	20	75	55	42.9±0.25	77.8±0.25	103	141	89	50	180	95	4-M12深18	4-M12深20	
PLFA-E500×*FP	414.5	340	20	75	55	42.9±0.25	77.8±0.25	103	141	89	50	180	95	4-M12深18	4-M12深20	
PLFA-E660×*FP	488.5	414	20	75	55	42.9±0.25	77.8±0.25	103	141	89	50	180	95	4-M12深18	4-M12深20	
PLFB-E240×*FP	282	241	20	45	45	35.7±0.25	69.9±0.25	95	96	78	38	142	69	4-M10深12	4-M12深20	

3、6.3MPa Pressure Line Filter

Model	Size(mm)														d1	d2
	~H	~H1	H2	H3	H4	h1	h2	h3	D	D1	D2	L	L1			
PLFA-C240×*FP	315.5	240	20	45	45	35.7±0.25	69.9±0.25	94	96	77	38	142	69	4-M10深12	4-M12深20	
PLFA-C330×*FP	321.5	247	20	65	55	42.9±0.25	77.8±0.25	103	141	89	50	180	90	4-M12深18	4-M12深20	
PLFA-C500×*FP	414.5	340	20	65	55	42.9±0.25	77.8±0.25	103	141	89	50	180	90	4-M12深18	4-M12深20	
PLFA-C660×*FP	488.5	414	20	65	55	42.9±0.25	77.8±0.25	103	141	89	50	180	90	4-M12深18	4-M12深20	
PLFB-C330×*FP	281.5	237	20	55	65	42.9±0.25	77.8±0.25	103	141	89	50	180	90	4-M12深18	4-M12深20	

ELEMENT PRESSURE DROP AGAINST FLOW CURVES

Cleaning Filter SO#D#BN3HC (The data were obtained experimentally).
Q-ΔP Curve Viscosity 32(CST)

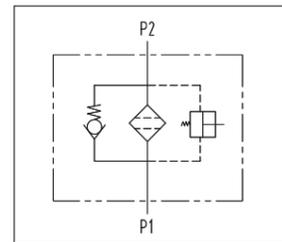


4、QH Series Pressure line Filter

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.



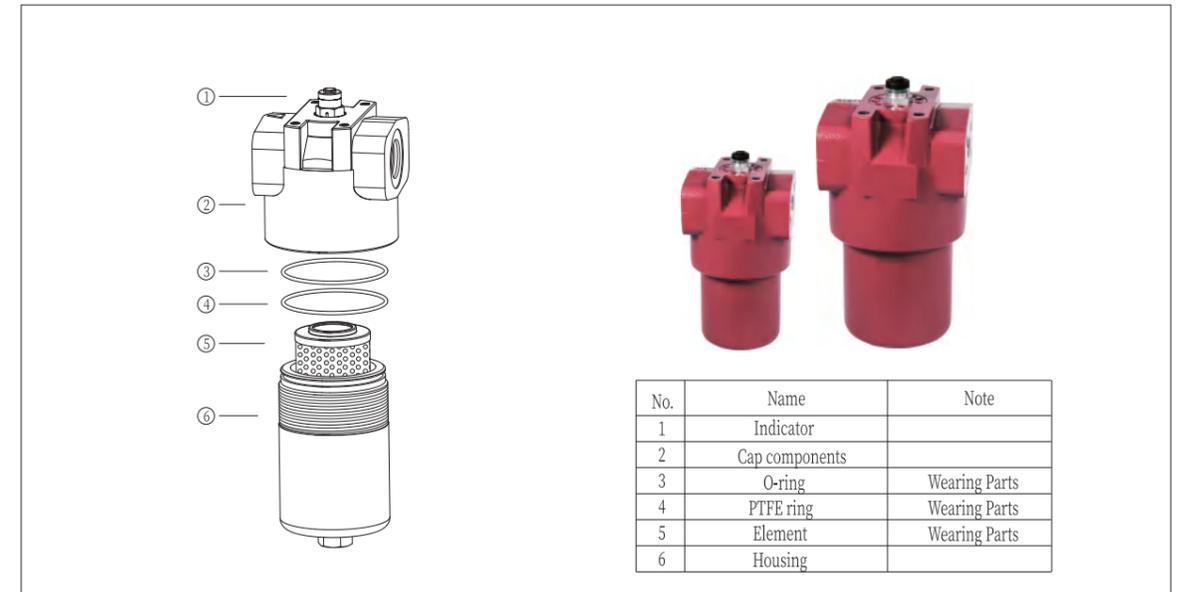
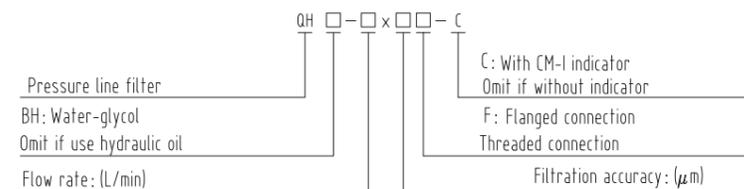
By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

SPECIFICATIONS

Type of Construction: Inline Mounted
Max Pressure: 42MPa
Flow Range: 330L/min~660L/min
Connection: Flange/Thread
Operating Temp: -40°C~+120°C
Pressure Indicator Option: 0.5MPa
By-pass Valve Cracking Pressure: 0.6MPa
Filter Media: Glass Fiber
Bowl Housing: Nodular Cast Iron, Steel
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

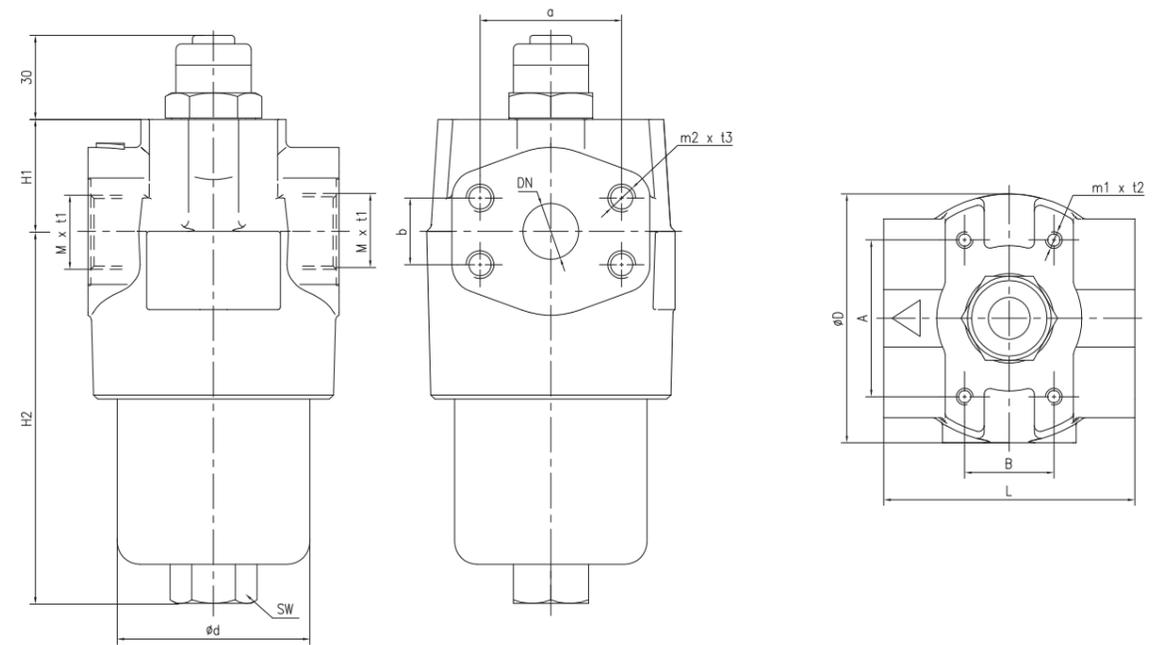
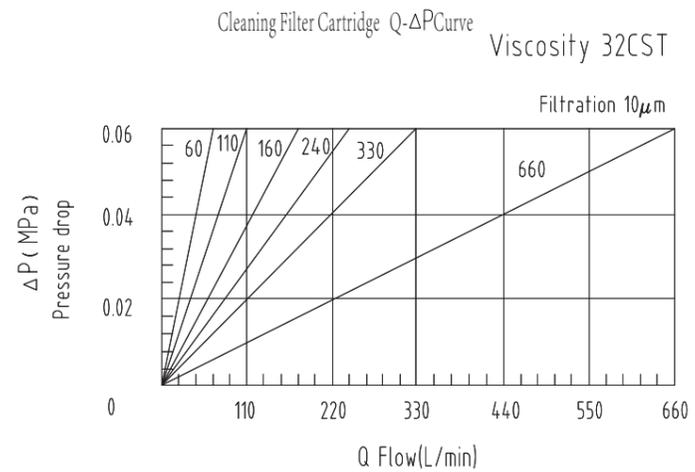
MODEL CODE



TECHNICAL PARAMETER

Model	Flow Rate (L/min)	Filtr (μm)	Pressure Loss(MPa)		Model of Element
			Intial	Max.	
QH-30×*-C	30	3 5 10 20 30	≤ 0.1	0.5	SO0030D*BN3HC
QH-60×*-C	60				SO0060D*BN3HC
QH-60×*F-C	60				SO0110D*BN3HC
QH-110×*-C	110				SO0140D*BN3HC
QH-110×*F-C	110				SO0160D*BN3HC
QH-140×*-C	140				SO0240D*BN3HC
QH-140×*F-C	140				SO0330D*BN3HC
QH-160×*-C	160				SO0660D*BN3HC
QH-160×*F-C	160				
QH-240×*-C	240				
QH-240×*F-C	240				
QH-330×*-C	330				
QH-330×*F-C	330				
QH-660×*-C	660				
QH-660×*F-C	660				

ELEMENT PRESSURE DROP AGAINST FLOW CURVES



MOUNTING DIMENSION

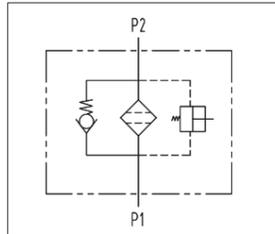
Model	M	Size (mm)														m1	m2
		DN	A	B	D	a	b	d	L	H1	H2	t1	t2	t3	SW		
QH-30 × *-C	G1/2	40	30	70			52	68	40	131	14	6		24	M5		
QH-60 × *-C	G3/4	56	32	89			69	90	40	133	16	10		27	M6		
QH-60 × *F-C		20	56	32	89	50.8	23.8	69	90	40	133		10	15	27	M6	M10
QH-110 × *-C	G3/4	56	32	89			69	90	40	202	16	10		27	M6		
QH-110 × *F-C		20	56	32	89	50.8	23.8	69	90	40	202		10	15	27	M6	M10
QH-140 × *-C	G3/4	56	32	89			69	90	40	243	16	10		27	M6		
QH-140 × *F-C		20	56	32	89	50.8	23.8	69	90	40	243		10	15	27	M6	M10
QH-160 × *-C	G1 1/4	85	35	121			97	125	47	187.5	20	14		32	M10		
QH-160 × *F-C		32	85	35	121	66.7	31.8	97	125	47	187.5		14	19	32	M10	M14
QH-240 × *-C	G1 1/4	85	35	121			97	125	47	244.5	20	14		32	M10		
QH-240 × *F-C		32	85	35	121	66.7	31.8	97	125	47	244.5		14	19	32	M10	M14
QH-330 × *-C	G1 1/2	115	60	164			131	162	52	251	22	17		36	M12		
QH-330 × *F-C		50	115	60	164	96.8	44.5	131	162	52	251		17	25	36	M12	M20
QH-660 × *-C	G1 1/2	115	60	164			131	162	52	427.5	22	17		36	M12		
QH-660 × *F-C		50	115	60	164	96.8	44.5	131	162	52	427.5		17	25	36	M12	M20

5、HF Pressure Line Filter Series

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.



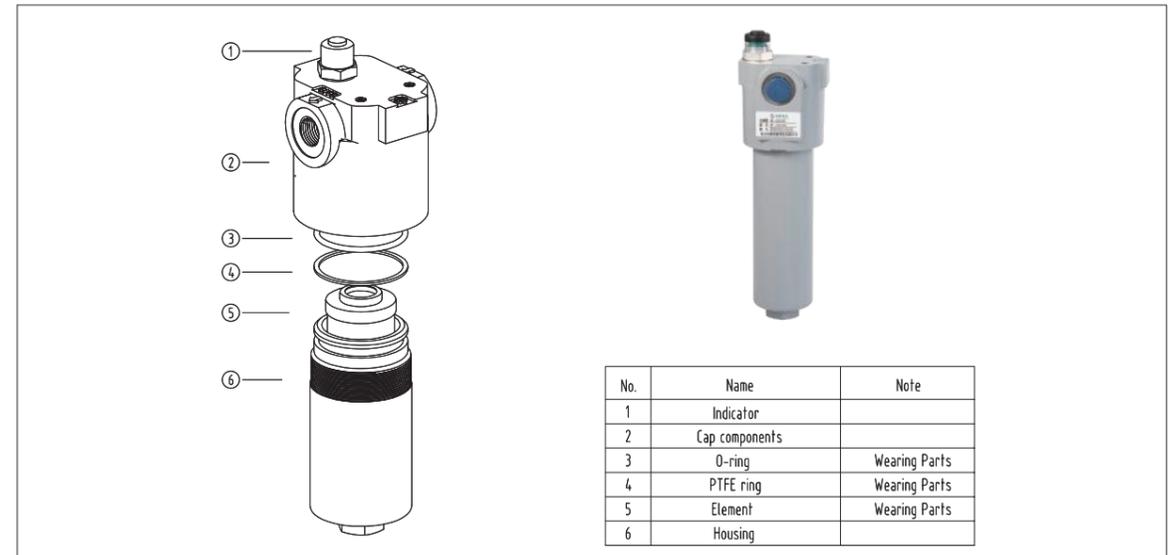
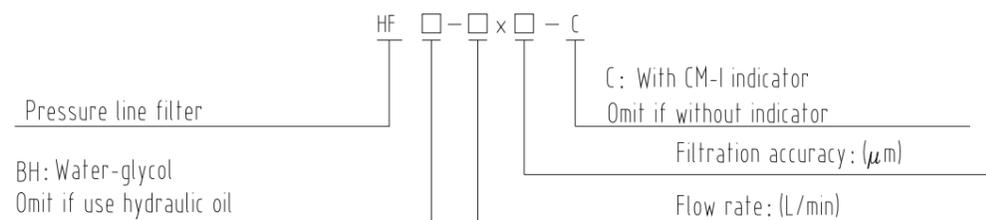
By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

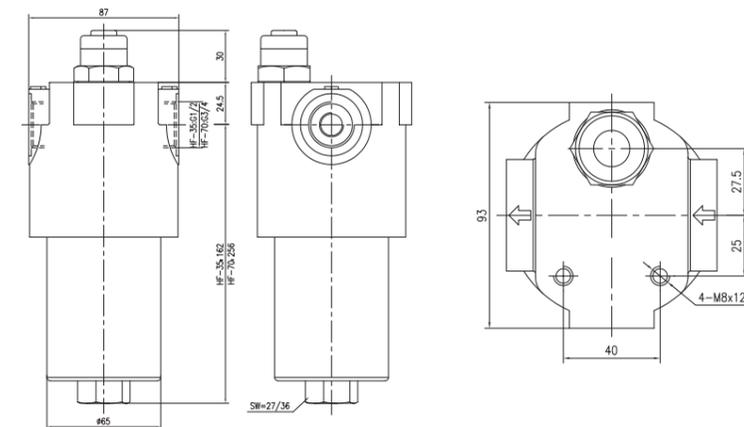
SPECIFICATIONS

Type of Construction: Inline Mounted
Max Pressure: 42MPa
Flow Range: 35L/min~70L/min
Connection: Thread
Operating Temp: -40°C~+120°C
Pressure Indicator Option: 0.5MPa
Bypass Valve Setting Pressure: 0.7MPa
Filter Media: Glass Fiber
Housing Material: Ductile Iron, Carbon Steel
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

MODEL CODE

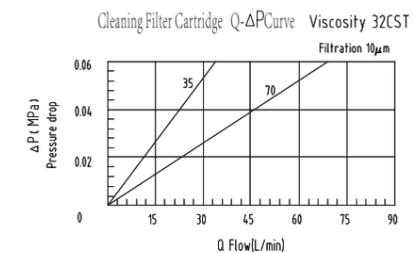


TECHNICAL PARAMETER AND MOUNTING SIZE



Model	Flow Rate (L/min)	Filtr (μm)	Pressure Loss(MPa)		Model of Element
			Initial	Max.	
HF- 35×*-C	35	3, 5, 10, 20, 30	≤0.1	0.5	HF- 35×*X
HF- 70×*-C	70				HF- 70×*X

AGAINST FLOW CURVES ELEMENT PRESSURE DROP

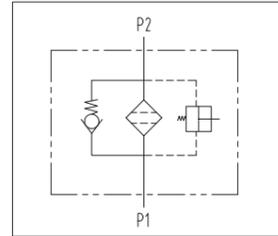


6、MH Pressure Line Filter Series

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.



By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

SPECIFICATIONS

Type of Construction: Inline Mounted

Max Pressure: 28MPa

Flow Range: 35L/min~95L/min

Connection: Thread

Operating Temp: -40°C~+120°C

Pressure Indicator Option: 0.5MPa

By-pass Valve Setting Pressure: 0.7MPa

Filter Media: Glass Fiber

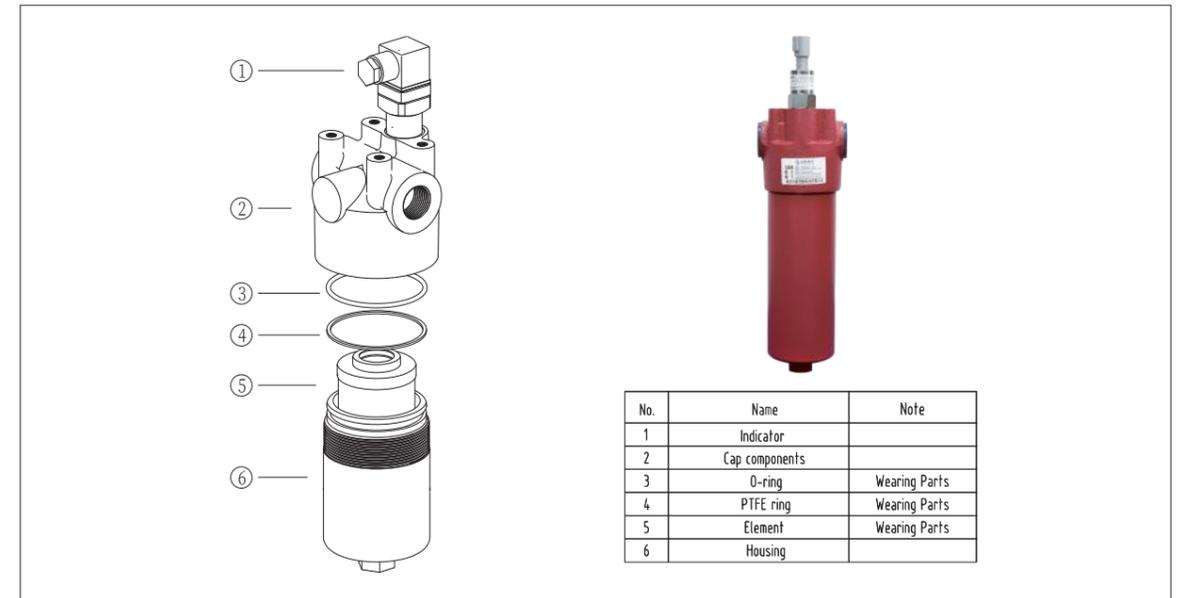
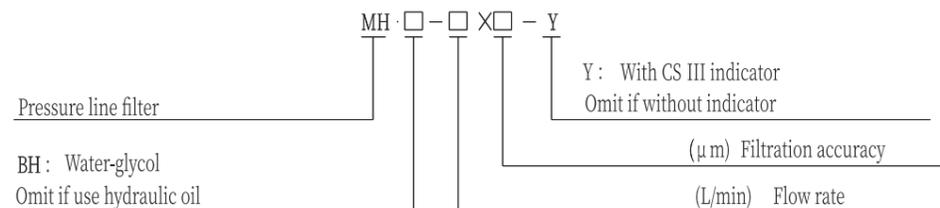
Housing Material: Ductile Iron, Carbon Steel

Sealing Material: NBR

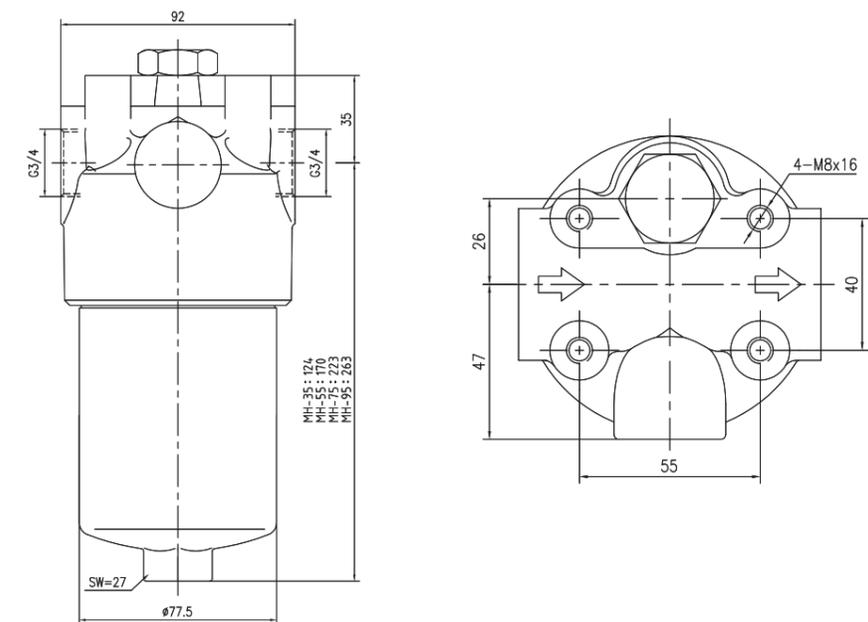
Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.

MODEL CODE



TECHNICAL PARAMETER AND MOUNTING SIZE

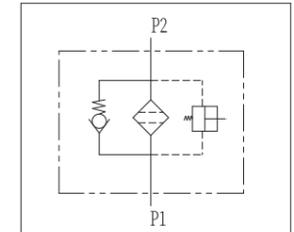


7、MLF Pressure Filter Series

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.



By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

SPECIFICATIONS

Type of Construction: Inline Mounted

Max Pressure: 10MPa

Flow Range: 30L/min~660L/min

Connection: Thread

Operating Temp: -40°C~+120°C

Pressure Indicator Option: 0.5MPa

By-pass Valve Setting Pressure: 0.6MPa

Filter Media: Glass Fiber

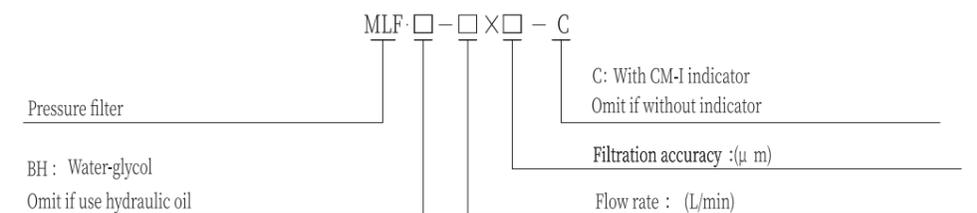
Housing Material: Aluminum Alloy

Sealing Material: NBR

Fluid Compatibility: Suitable for mineral oil, synthetic oil

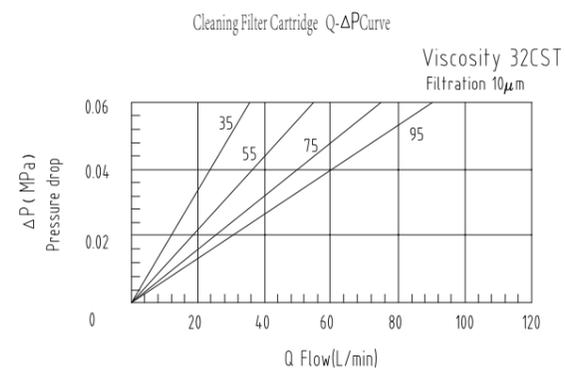
Please contact our sales staff if there is any additional media you need.

MODEL CODE

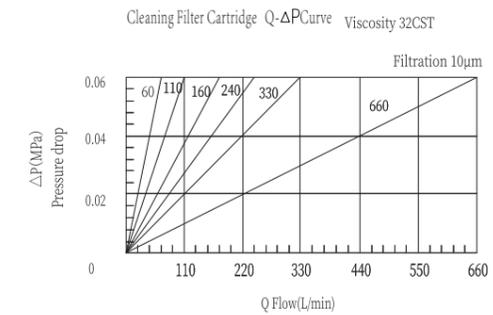


Model	Flow Rate (L/min)	Filtr (μm)	Pressure Loss(MPa)		Model of Element
			Intial	Max.	
MH-35×*-Y	35	3 5 10 20 30	≤0.1	0.5	MH-35×*X
MH-55×*-Y	55				MH-55×*X
MH-75×*-Y	75				MH-75×*X
MH-95×*-Y	95				MH-95×*X

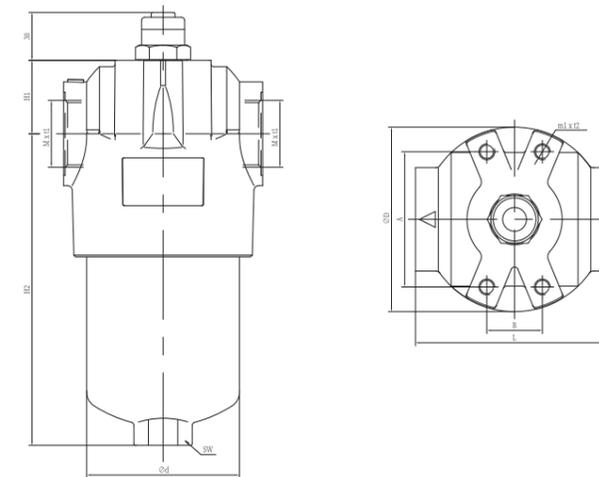
ELEMENT PRESSURE DROP AGAINST FLOW CURVES



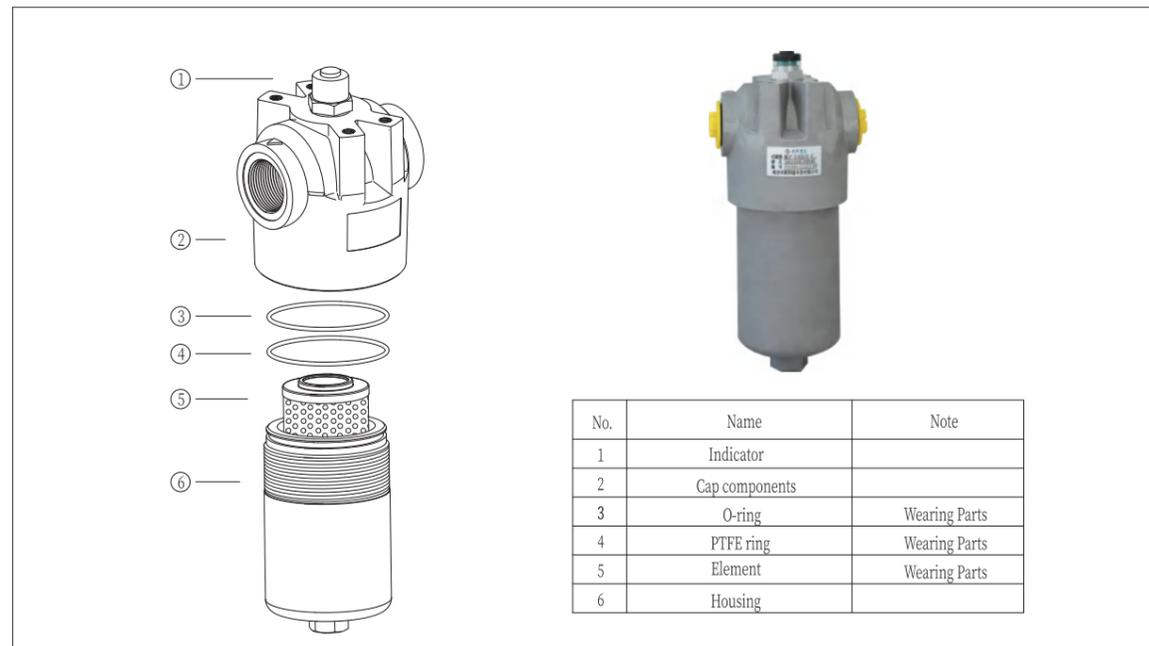
ELEMENT PRESSURE DROP AGAINST FLOW CURVES



MOUNTING DIMENSION



Model	M	Size (mm)										
		L	A	B	D	d	H1	H2	m1	t1	t2	SW
MLF- 30 × *- C	G1/2	69	45	30	67	52	40	125	M5	15	8	24
MLF- 60 × *- C	G3/4	90	56	32	84	66	42	124	M6	17	9	30
MLF- 110 × *- C	G3/4	90	56	32	84	66	42	196	M6	17	9	30
MLF- 160 × *- C	G1 ¹ / ₄	125	85	35	116	96	46	184	M10	21	14	32
MLF- 240 × *- C	G1 ¹ / ₄	125	85	35	116	96	46	241	M10	21	14	32
MLF- 330 × *- C	G1 ¹ / ₂	160	115	60	160	130	52	243	M12	23	17	36
MLF- 660 × *- C	G1 ¹ / ₂	160	115	60	160	130	52	414	M12	23	17	36



TECHNICAL PARAMETER

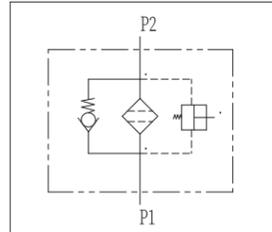
Model	Flow Rate (L/min)	Filtr (μm)	Pressure Loss (MPa)		Model of Element
			Initial	Max.	
MLF- 30 × *- C	30	3 5 10 20 30	≤0.1	0.5	SO0030D*BN3HC
MLF- 60 × *- C	60				SO0060D*BN3HC
MLF- 110 × *- C	110				SO0110D*BN3HC
MLF- 160 × *- C	160				SO0160D*BN3HC
MLF- 240 × *- C	240				SO0240D*BN3HC
MLF- 330 × *- C	330				SO0330D*BN3HC
MLF- 660 × *- C	660				SO0660D*BN3HC

8、SLF Pressure Line Filter Series

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.



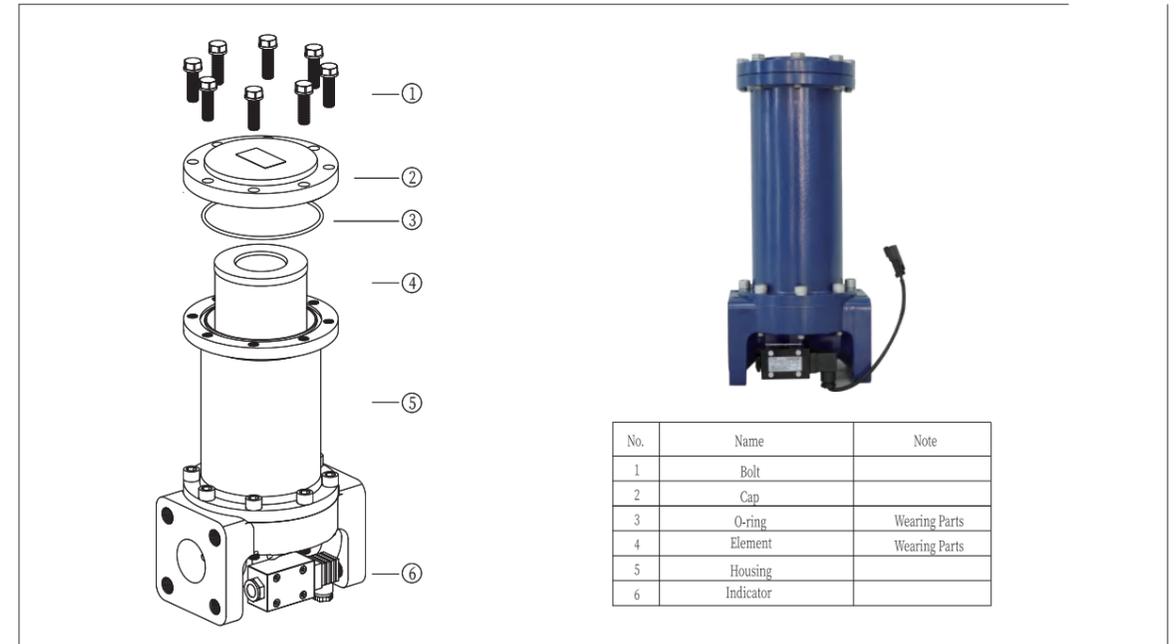
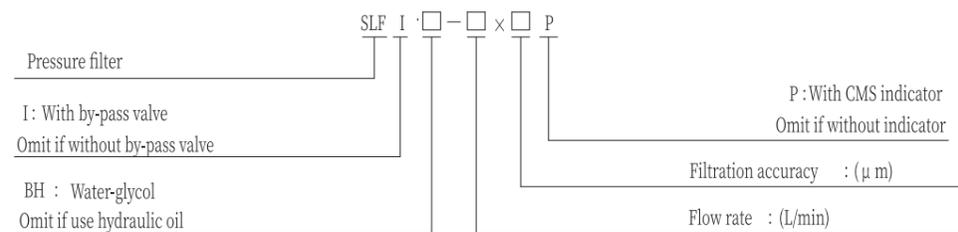
By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

SPECIFICATIONS

Type of Construction: Inline Mounted
Max Pressure: 6.3MPa
Flow Range: 400L/min~800L/min
Connection: Flange
Operating Temp: -40°C~+120°C
Pressure Indicator Option: 0.35MPa
Valve Setting Pressure: 0.4MPa
Filter Media: Glass Fiber
Housing Material: Aluminum Alloy, Ductile Iron, Carbon Steel
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

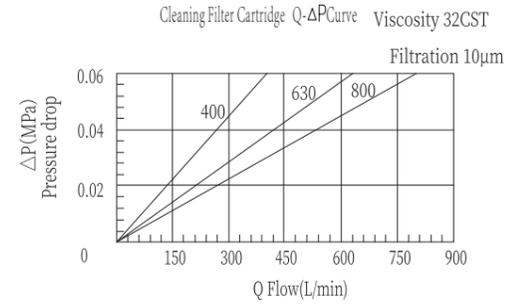
MODEL CODE



TECHNICAL PARAMETER

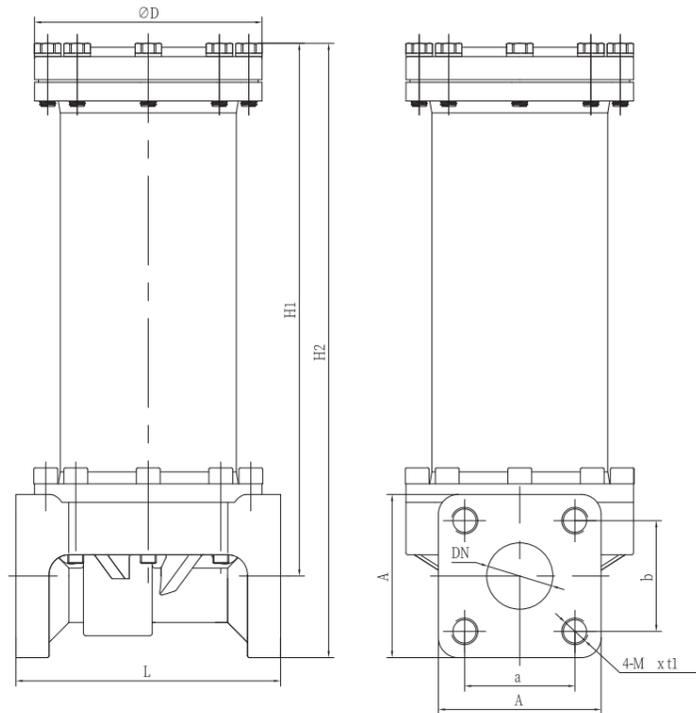
Model	Flow Rate (L/min)	Filtr (μm)	Pressure Loss(MPa)		Model of Element
			Initial	Max.	
SLFI - 400 × *FP	400	3, 5, 10, 20, 30	≤ 0.1	0.5	SLFX - 400 × *Q
SLFI - 630 × *FP	630				SLFX - 630 × *Q
SLFI - 800 × *FP	800				SLFX - 800 × *Q

ELEMENT PRESSURE DROP AGAINST FLOW CURVES



MOUNTING DIMENSION

Model	DN	Size (mm)								
		L	A	a	b	D	H1	H2	M	t1
SLFI - 400 \times *FP	50	200	123	83.4	83.4	172	401.5	463	M20	20
SLFI - 630 \times *FP	50	230	123	77.8	42.9	190	371	433	M14	17
SLFI - 800 \times *FP	50	230	123	84	84	190	471	533	M20	17

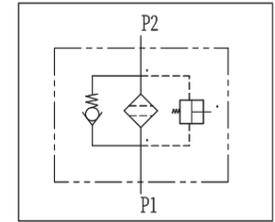


9、XDF Pilot Line Filter Series

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.



By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

SPECIFICATIONS

Type of Construction: Inline Mounted

Max Pressure: 7MPa

Flow Range: 45L/min

Connection: Thread

Operating Temp: -40°C~+120°C

Pressure Indicator Option: 0.5MPa

Bypass Valve Setting Pressure: 0.7MPa

Filter Media: Glass Fiber

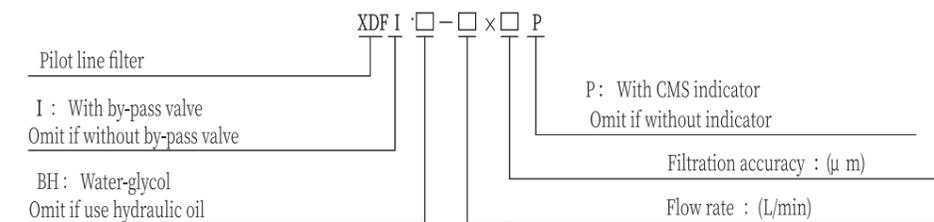
Housing Material: Aluminum Alloy

Sealing Material: NBR

Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.

MODEL CODE



10、PFI-H160 Series Line Filter

FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

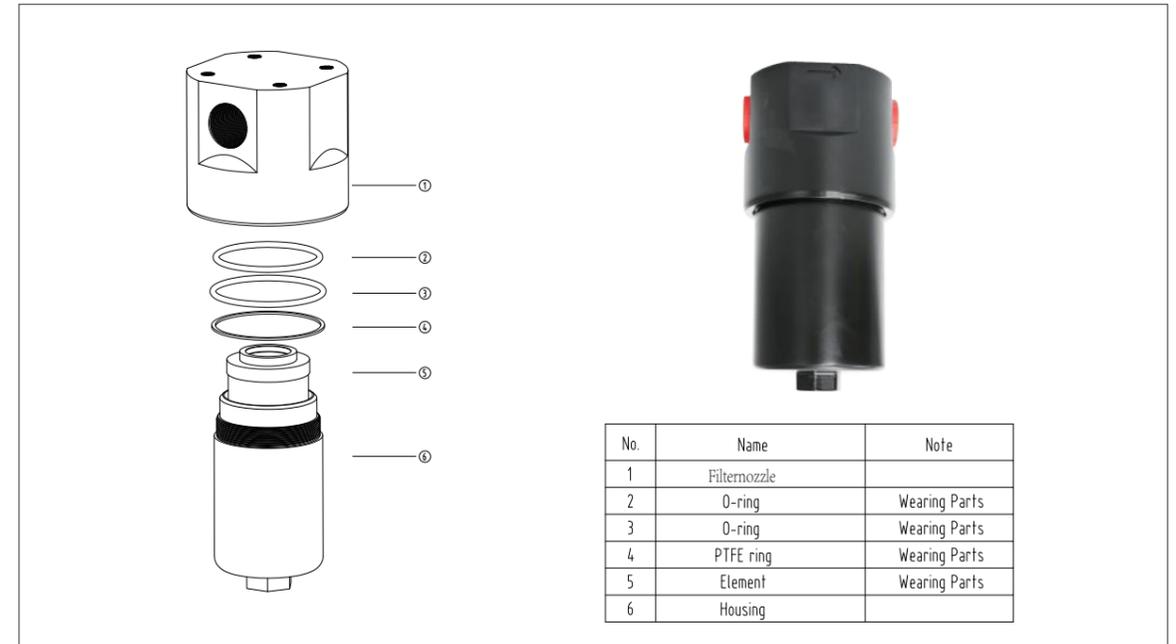
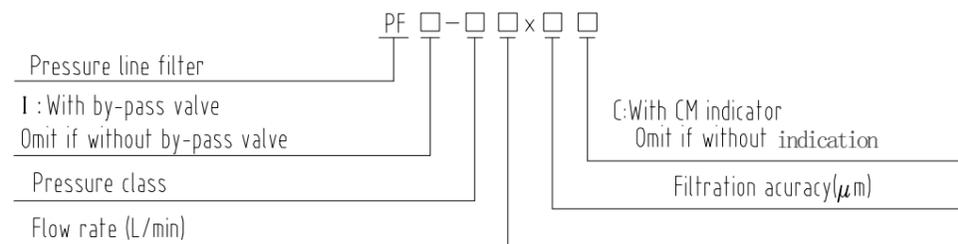
By-pass Function

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.

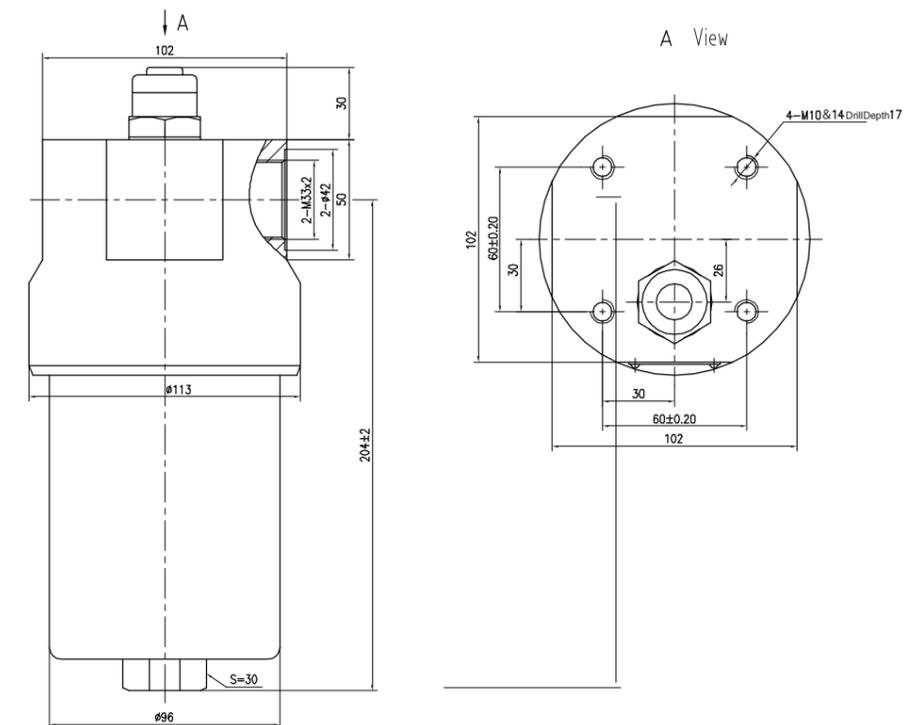
SPECIFICATIONS

Type of Construction: Inline Mounted
Max Pressure: 25MPa
Flow Range: 160L/min
Connection: Thread
Operating Temp: -40°C~+120°C
Pressure Indicator Option: 0.35MPa
Bypass Valve Setting Pressure: 0.5MPa
Filter Media: Glass Fiber
Filter head, Housing Material: Steel
Filter ratio: $\beta \geq 200$, Filtration efficiency: $\eta \geq 99.5\%$
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

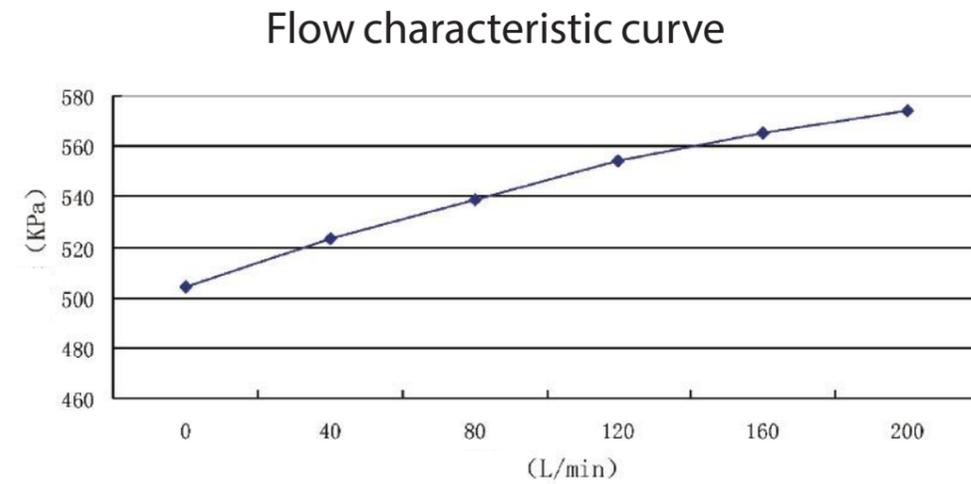
MODEL CODE



MOUNTING DIMENSION



ELEMENT PRESSURE DROP AGAINST FLOW CURVES

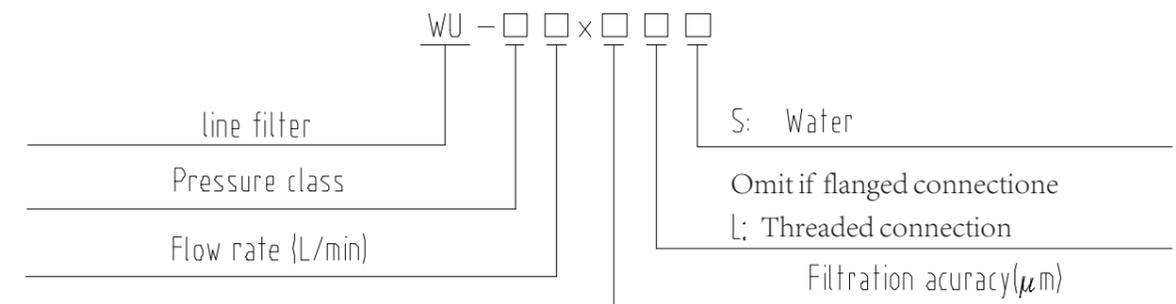


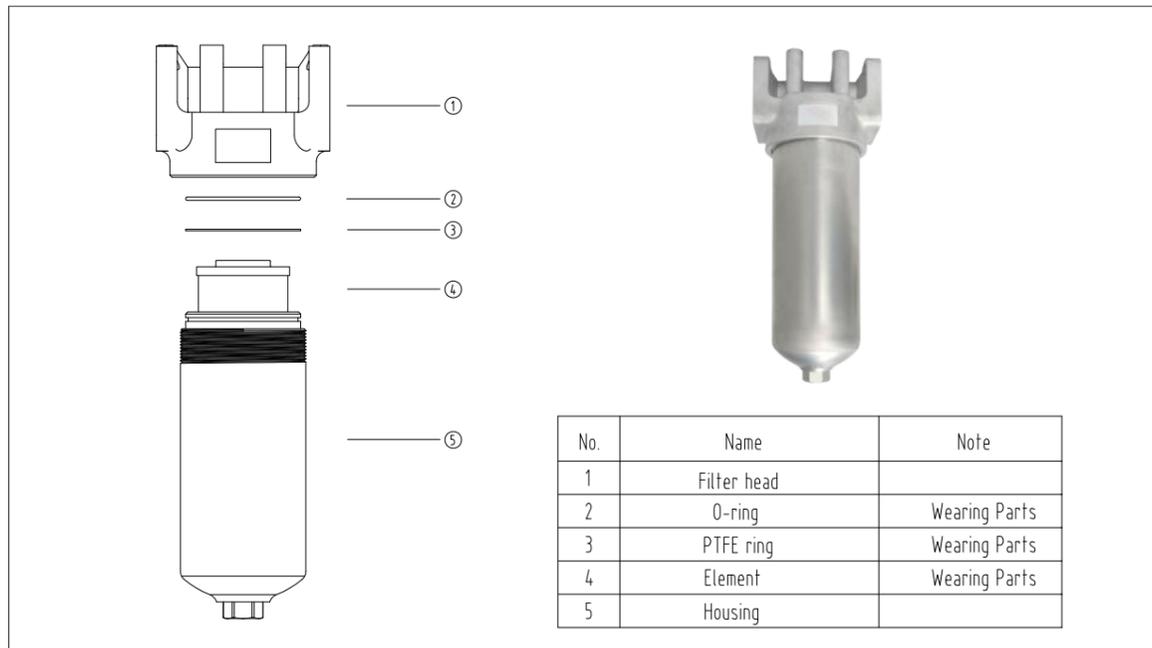
11、WU-E250 Series Line Filter

SPECIFICATIONS

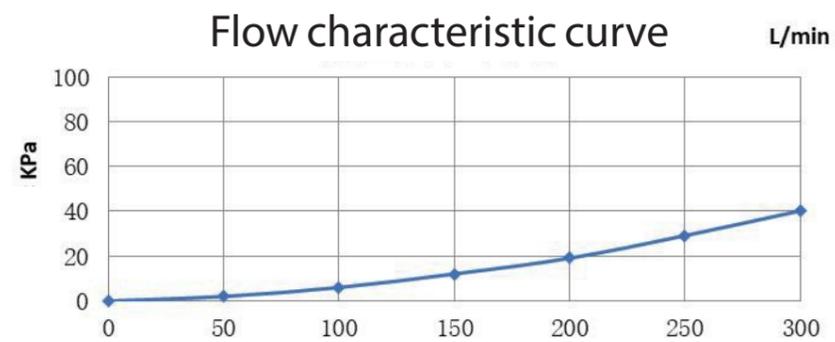
Type of Construction: Inline Mounted
Max Pressure: 16MPa
Flow Range: 250L/min
Connection: Thread, Flange
Operating Temp: -40°C~+120°C
Filter Media: 304 Stainless steel
Filter head, Housing Material: 304 Stainless steel
Filter ratio: $\beta \geq 200$, Filtration efficiency: $\eta \geq 99.5\%$
Fluid Compatibility: Suitable for water
Please contact our sales staff if there is any additional media you need.

MODEL CODE



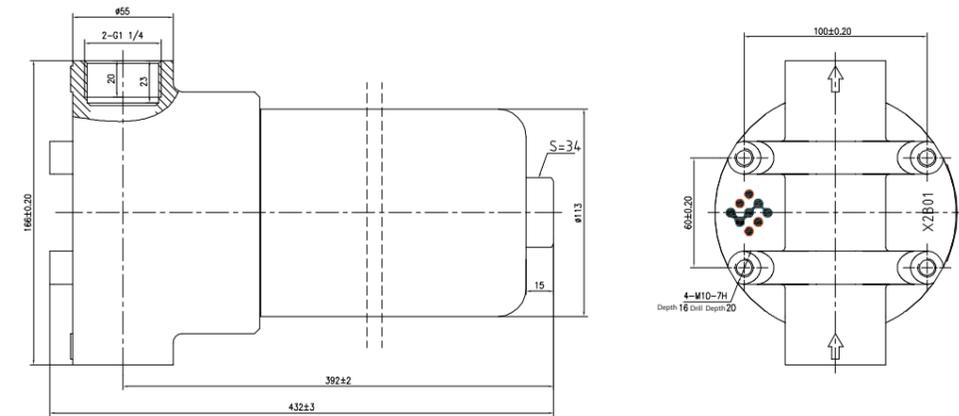


ELEMENT PRESSURE DROP AGAINST FLOW CURVES

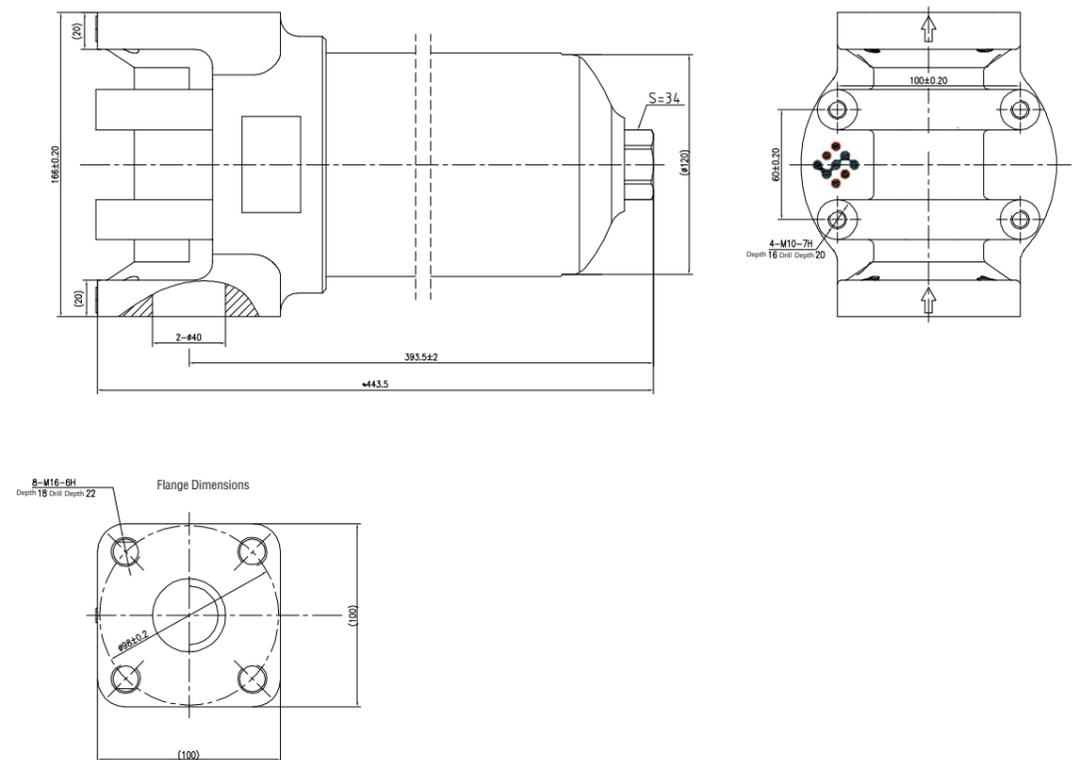


MOUNTING DIMENSION

WU-E250LS



WU-E250S



12、ZU-H Series Pressure Line Filter

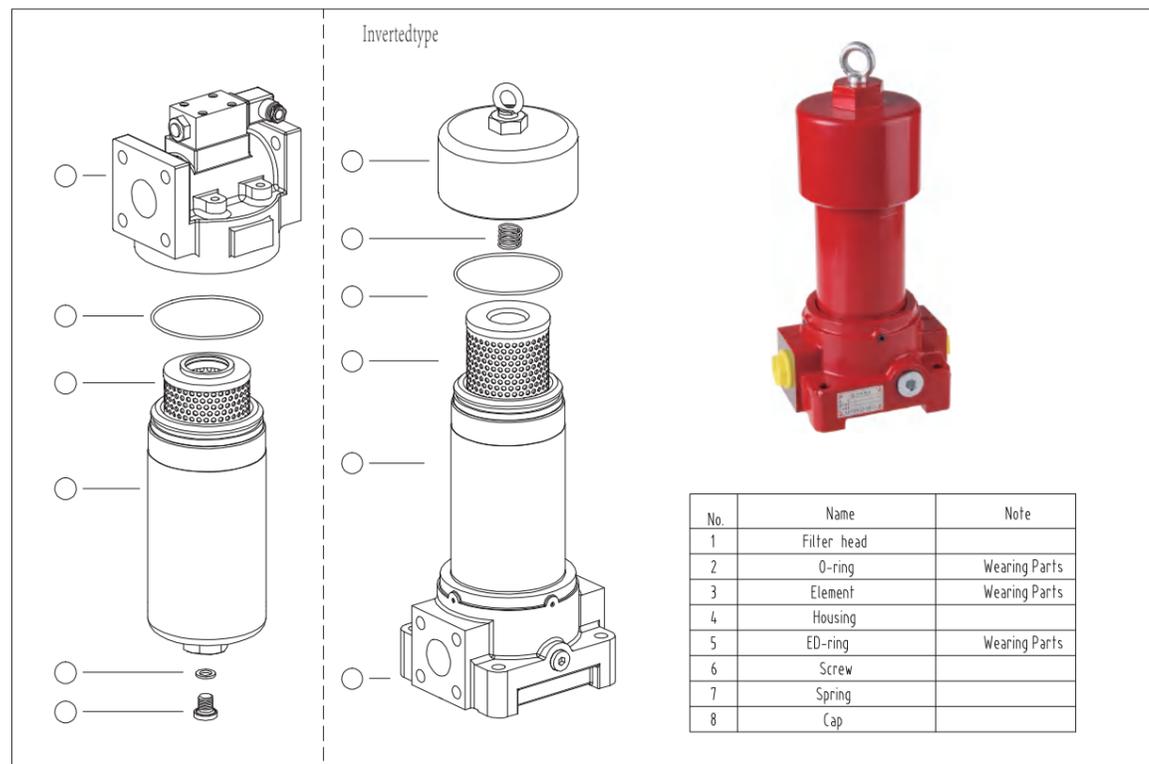
FEATURES

Contamination Indicator

Visual or electrical contamination indicator can be installed on the filter to observe the contamination of element.

By-pass Function(optional)

By-pass valve will crack to protect the normal operation of element and the system when pressure drop reaches to the set value.



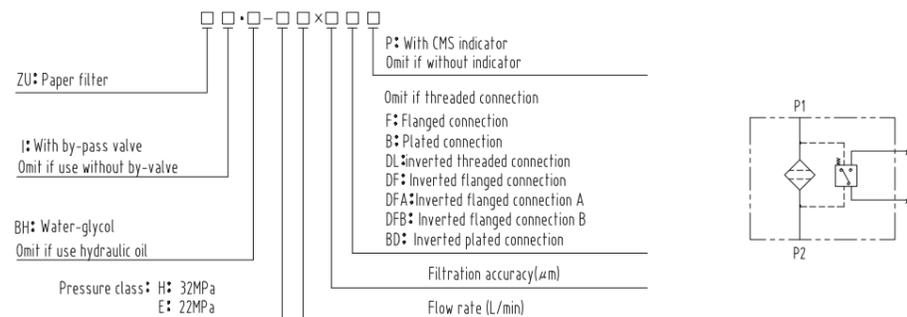
SPECIFICATIONS

Type of Construction: Inline Mounted
Max Pressure: 32MPa
Flow Range: 10~800L/min
Connection: Flange/Thread/ Manifold
Operating Temp: -40°C~+120°C
Pressure Indicator Option: 0.35MPa
By-pass Valve Cracking Pressure: 0.4MPa
For Visual and Electrical Indicator Use
Filter Media: Glass Fiber, Filter Paper, Wire Mesh
Bowl Housing: Nodular Cast Iron, Steel
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need

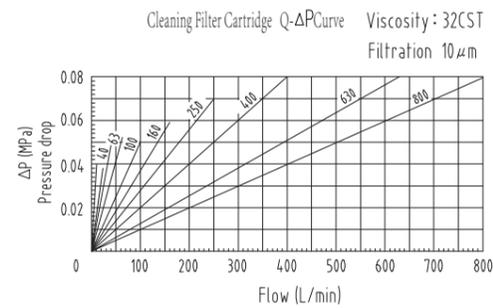
Model	Dia. (mm)	Flow Rate (L/min)	Filtr. (μm)	Pressure Loss (MPa)		Indicator Power	Weight	Model of Filter Element	Connection
				Initial	Max				
ZU-H10×*P	15	10	1	0.08	0.35	24V/48W 220V/50W	3.6 5.0 8.0 9.8 12.0 18.2 23.0 33.8 42.0 52.0	HX-10×*# HX-25×*# HX-40×*# HX-63×*# HX-100×*# HX-160×*# HX-250×*# HX-400×*# HX-630×*# HX-800×*#	Threaded
ZU-H25×*P		25							
ZU-H40×*P	40								
ZU-H63×*P	63								
ZU-H100×*P	100								
ZU-H160×*P	160								
ZU-H250×*FP	250								
ZU-H400×*FP	400								
ZU-H630×*FP	55	630	30	0.12	0.15			Flanged	
ZU-H800×*FP		800							

Note: * represents filtration accuracy, # represents filter material. if the fluid medium is water-glycol, usage pressure is 32MPa, flow rate is 63L/min, filter material is paper with indicator and by-pass valve and filtration accuracy is 10μm then the model of filter is ZUI·BH-H63×10P

MODEL CODE



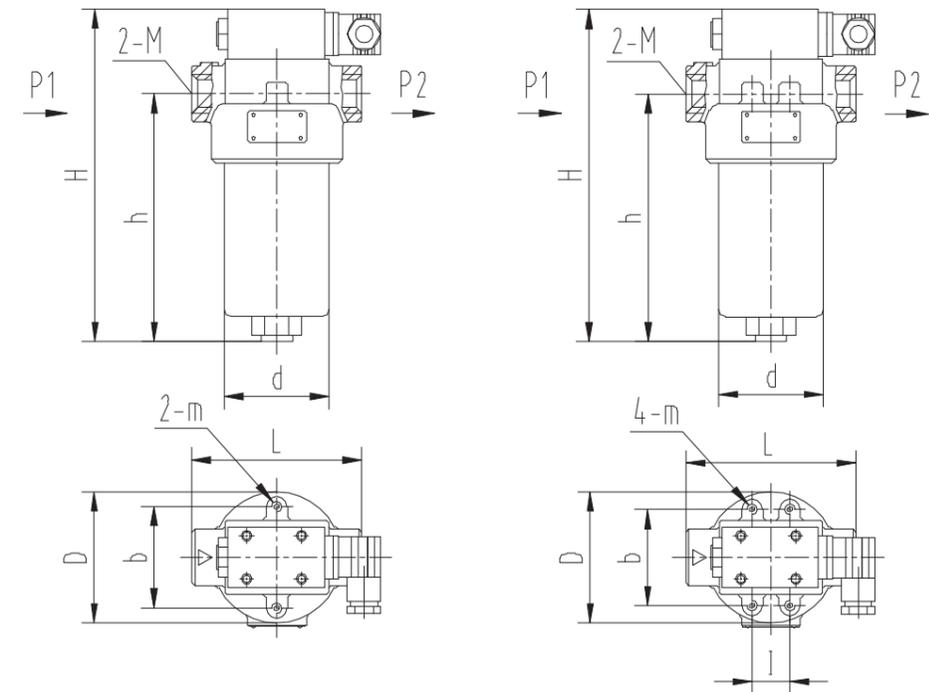
ELEMENT PRESSURE DROP AGAINST FLOW CURVES



MOUNTING DIMENSION

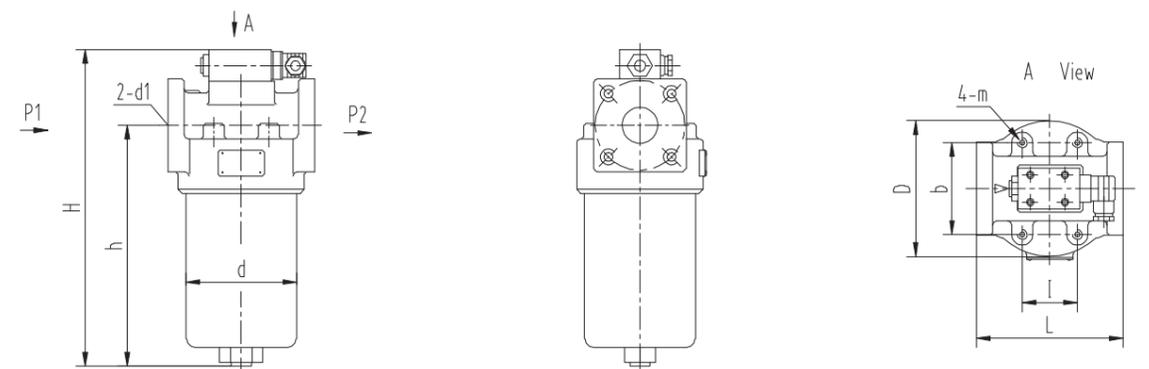
1, Threaded

Model	Size(mm)							m	M
	≈H	≈h	L	I	b	D	d		
ZU-H10×*P	189.5	131	118	/	70	Φ91	Φ73	2-M6	M27×2
ZU-H25×*P	279.5	221							
ZU-H40×*P	239.5	175.5	128	44	86	Φ128	Φ102	4-M10	M33×2
ZU-H63×*P	307.5	243.5							
ZU-H100×*P	378	311							
ZU-H160×*P	410	337	166	60	100	Φ147	Φ121	M48×2	



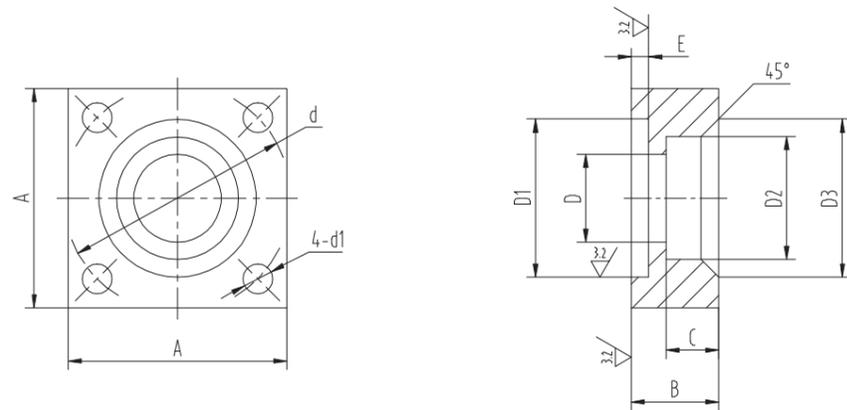
2, Flanged Connection

Model	Size(mm)							m	
	≈H	≈h	L	I	b	D	d		
ZU-H250×*FP	488.5	406	166	60	100	Φ148	Φ121	Φ40	M10
ZU-H400×*FP	520.5	437	206		123	Φ172	Φ146	Φ50	M12
ZU-H630×*FP	628.5	540.5			128			Φ55	
ZU-H800×*FP	748.5	660.5							



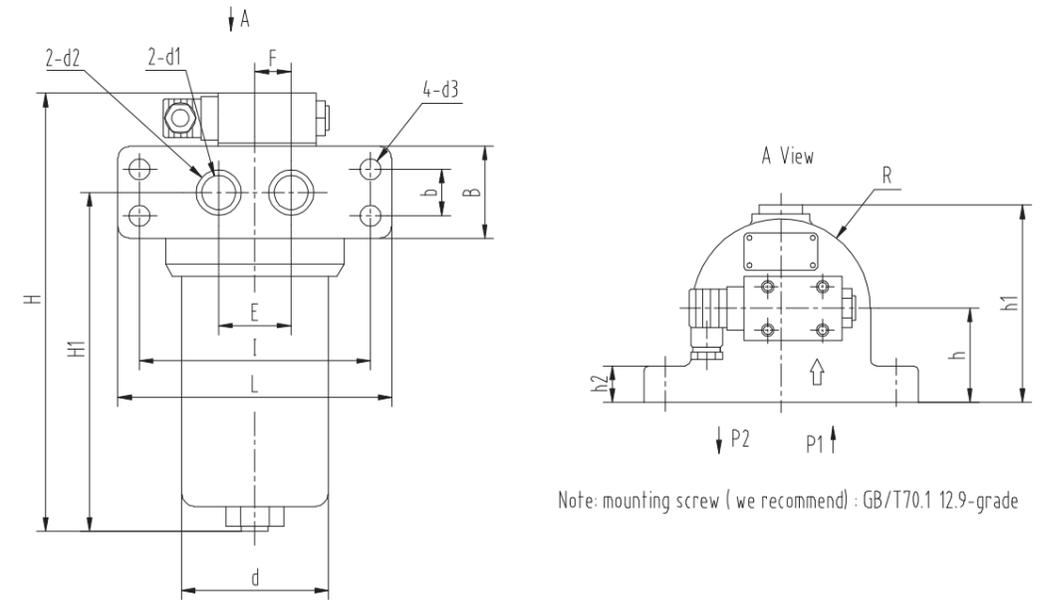
2.1 Connecting flange, please manufacture the product refer to the following size.

Model	Size(mm)											ring for flange	Screws for flange		
	A	B	C	D	D1	D2	D3	d	E	d1					
ZU-H250×*FP	100	30	18	Φ40	Φ55		Φ52		Φ60	Φ98	2.4		17	Φ55×3.1	M16×45
ZU-H400×*FP	123	36	20	Φ52	Φ73	0	Φ65	+0.2	Φ73	Φ118		0		Φ73×5.7	M20×60
ZU-H630×*FP	142	42	22	Φ55	Φ80	-0.1	Φ77	0	Φ85	Φ145	4.5	-0.1	22	Φ80×5.7	M20×65
ZU-H800×*FP	142	42	22	Φ55	Φ80		Φ77		Φ85	Φ145				Φ80×5.7	M20×65



3、Plated connection

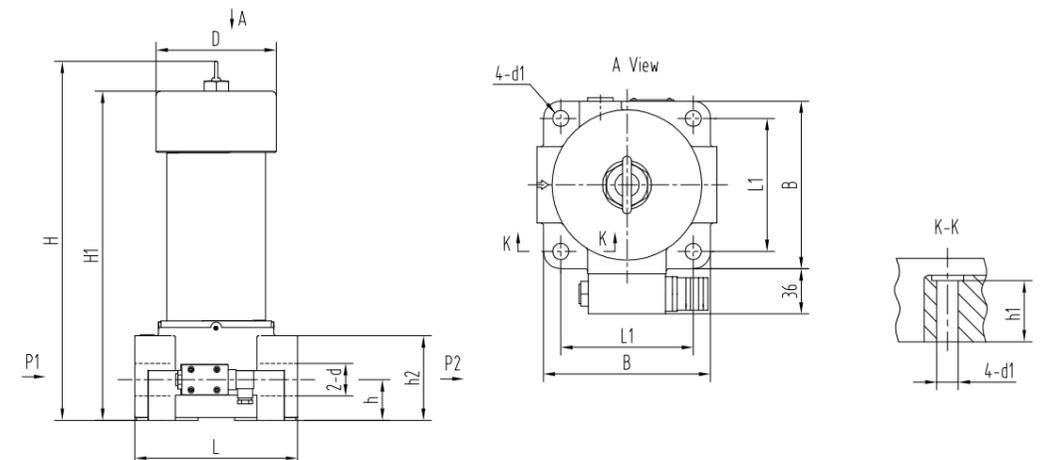
Model	Size(mm)															
	≈H	≈H1	R	d	L	B	I	b	E	F	h	h1	h2	d1	d2	d3
ZU-H10×*BP	210	142	46	Φ73	158	60	128	30	40	20	50	110	22	Φ15	Φ24	Φ13
ZU-H25×*BP	300	232														
ZU-H40×*BP	269	199	62	Φ102	190	64	160	32	50	25	65	138	25	Φ25	Φ32	Φ15
ZU-H63×*BP	337	267														
ZU-H100×*BP	399	329	73	Φ121	212	72	180	40	60	30	77	164	30	Φ32	Φ40	Φ17
ZU-H160×*BP	426	353														
ZU-H250×*BP	507	429	85	Φ146	275	80	225	60	80	40	92	194	40	Φ40	Φ50	Φ26
ZU-H400×*BP	554	461														
ZU-H630×*BP	654	561														



Note: mounting screw (we recommend) : GB/T70.1 12.9-grade

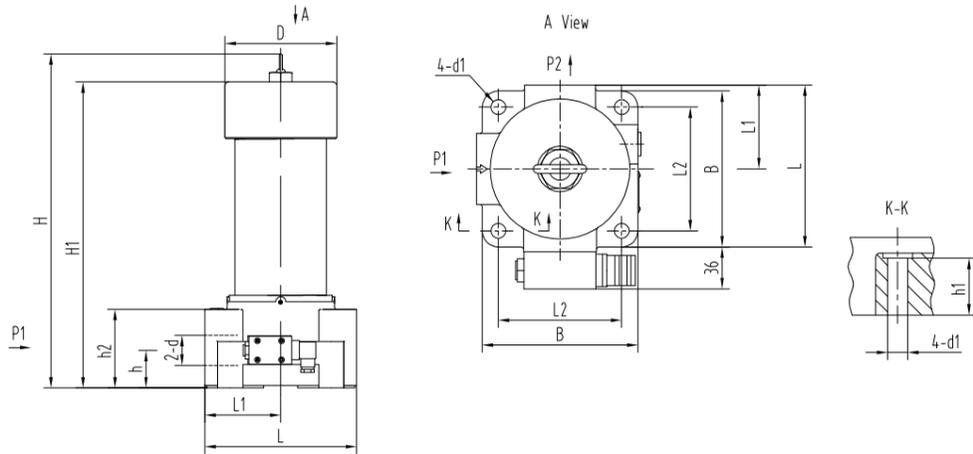
4、Invert Threaded Connection

Model	Size(mm)										M
	H	H1	L	L1	B	d1	h	h1	h2	D	
ZU-H10×*DLP	207.5	154.5	130	95	115	Φ9	30.5	35	56	Φ96	M27×2
ZU-H25×*DLP	297.5	244.5									
ZU-H40×*DLP	255	203.5	156	115	145	Φ14	35	43.5	68	Φ130	M33×2
ZU-H63×*DLP	323	271.5									
ZU-H100×*DLP	385	333.5	190	140	170	Φ14	47	52	92	Φ150	M42×2
ZU-H160×*DLP	417.5	366.5									



5、Inverted Flange Connection

Model	Size(mm)										
	H	H1	L	L1	B	d1	h	h1	h2	d	D
ZU-H10×*DFP	207.5	154.5	130	95	115	Φ9	30.5	35	56	Φ18	Φ96
ZU-H25×*DFP	297.5	244.5									
ZU-H40×*DFP	255	203.5	156	115	145	Φ14	35	43.5	68	Φ25	Φ130
ZU-H63×*DFP	323	271.5									
ZU-H100×*DFP	385	333.5									
ZU-H160×*DFP	417.5	366.5	190	140	170	Φ14	47	52	92	Φ32	Φ150
ZU-H250×*DFP	487.5	436.5								Φ40	
ZU-H400×*DFP	534.5	483.5	240	160	200	Φ18	64	76	124	Φ50	Φ180
ZU-H630×*DFP	634.5	583.5								Φ55	
ZU-H800×*DFP	754.5	703.5								Φ55	

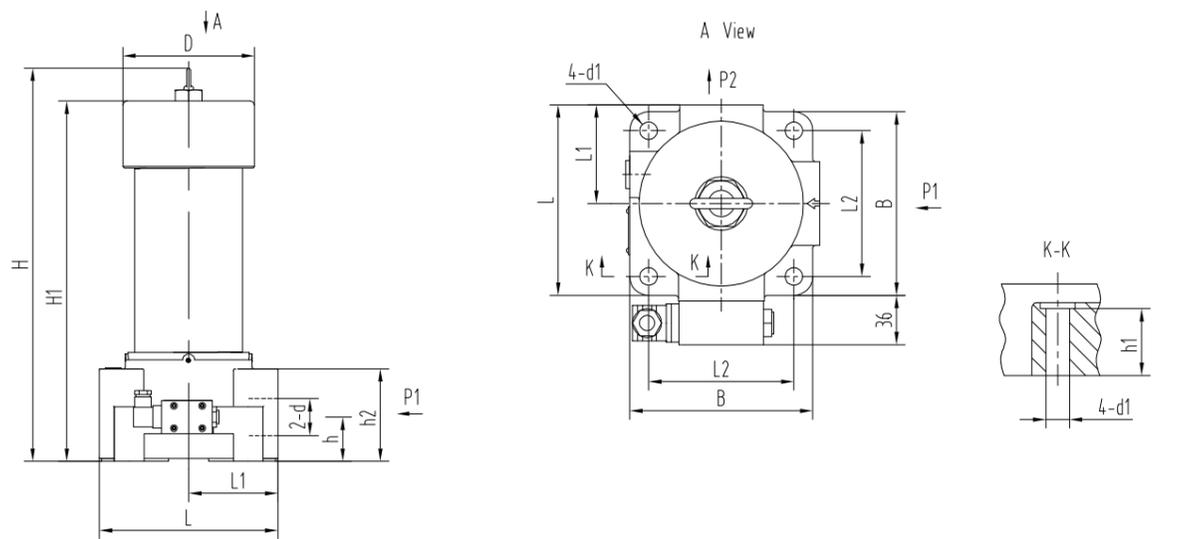


6、Inverted Flange Connection A Type

Model	Size(mm)											
	H	H1	L	L1	L2	B	d1	h	h1	h2	d	D
ZU-H10×*DFAP	198	148	122.5	65	95	115	Φ9	27.5	33	54	Φ18	Φ92
ZU-H25×*DFAP	288	238										
ZU-H40×*DFAP	247	197	150.5	78	115	145	Φ14	34	41	68	Φ25	Φ124
ZU-H63×*DFAP	315	265										
ZU-H100×*DFAP	377	327										
ZU-H160×*DFAP	415	365	180	95	140	170	Φ14	46	50	92	Φ32	Φ146
ZU-H250×*DFAP	485	435									Φ40	
ZU-H400×*DFAP	532	482	220	120	160	200	Φ18	63	75	122	Φ50	Φ176
ZU-H630×*DFAP	632	582									Φ55	
ZU-H800×*DFAP	752	702									Φ55	

7、Inverted Flange Connection B Type

Model	Size(mm)											
	H	H1	L	L1	L2	B	d1	h	h1	h2	d	D
ZU-H10×*DFBP	198	148	122.5	65	95	115	Φ9	27.5	33	54	Φ18	Φ92
ZU-H25×*DFBP	288	238										
ZU-H40×*DFBP	247	197	150.5	78	115	145	Φ14	34	41	68	Φ25	Φ124
ZU-H63×*DFBP	315	265										
ZU-H100×*DFBP	377	327										
ZU-H160×*DFBP	415	365	180	95	140	170	Φ14	46	50	92	Φ32	Φ146
ZU-H250×*DFBP	485	435									Φ40	
ZU-H400×*DFBP	532	482	220	120	160	200	Φ18	63	75	122	Φ50	Φ176
ZU-H630×*DFBP	632	582									Φ55	
ZU-H800×*DFBP	752	702									Φ55	



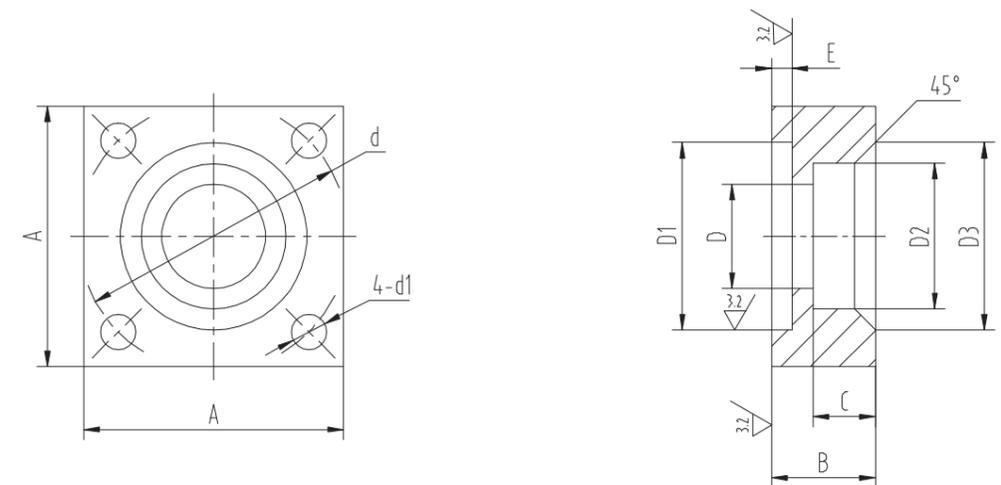
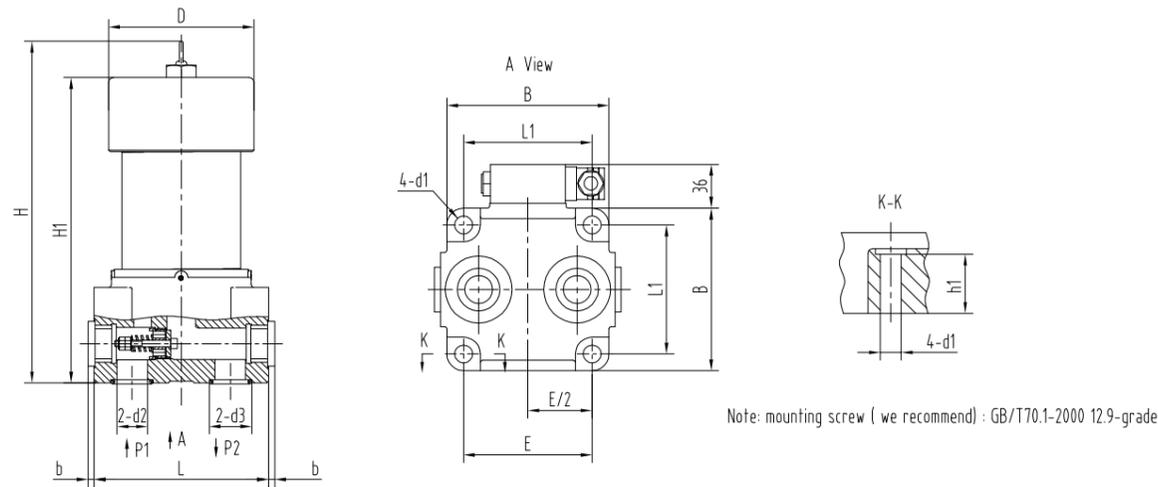
8、Inverted Plate Type

Model	Size(mm)												
	H	H1	D	L	L1	B	d1	E	h1	h2	d2	d3	b
ZU-H10×*BDP	207	154	Φ96	130	90	115	Φ11.5	60	34	56	Φ15	Φ24	4
ZU-H25×*BDP	297	244											
ZU-H40×*BDP	255	203.5	Φ130	156	115	145	Φ16	88	39	68	Φ25	Φ38	5.5
ZU-H63×*BDP	323	271.5											
ZU-H100×*BDP	385	333.5											
ZU-H160×*BDP	417.5	366.5	Φ150	190	135	170	Φ18	104	48	92	Φ40	Φ51	6.5
ZU-H250×*BDP	487.5	436.5											
ZU-H400×*BDP	534.5	483.5	Φ180	240	160	200	Φ26	144	70	124	Φ50	Φ65	7
ZU-H630×*BDP	634.5	583.5											
ZU-H800×*BDP	754.5	703.5											

9、Connecting flange, please manufacture the product refer to the following size chart.

Model	Size(mm)										ring for flange	Screws for flange	
	A	B	C	D	D1	D2	D3	d	E	d1			
ZU-H10×*D△P	52	22	11	Φ18	Φ30	Φ28	Φ36	Φ50	2.4	0	Φ9	Φ30×3.1	M8×40
ZU-H25×*D△P													
ZU-H40×*D△P	66	12	Φ25	Φ40	0	Φ35	Φ43	Φ62	0	Φ11	Φ40×3.1	M10×40	
ZU-H63×*D△P													
ZU-H100×*D△P													
ZU-H160×*D△P	90	26	16	Φ32	Φ50	-0.1	Φ43	Φ51	Φ85	-0.1	Φ17	Φ50×3.1	M16×45
ZU-H250×*D△P													
ZU-H400×*D△P	120	36	20	Φ52	Φ73	Φ65	Φ73	Φ118	4.5	Φ22	Φ73×5.7	M20×65	
ZU-H630×*D△P													
ZU-H800×*D△P													

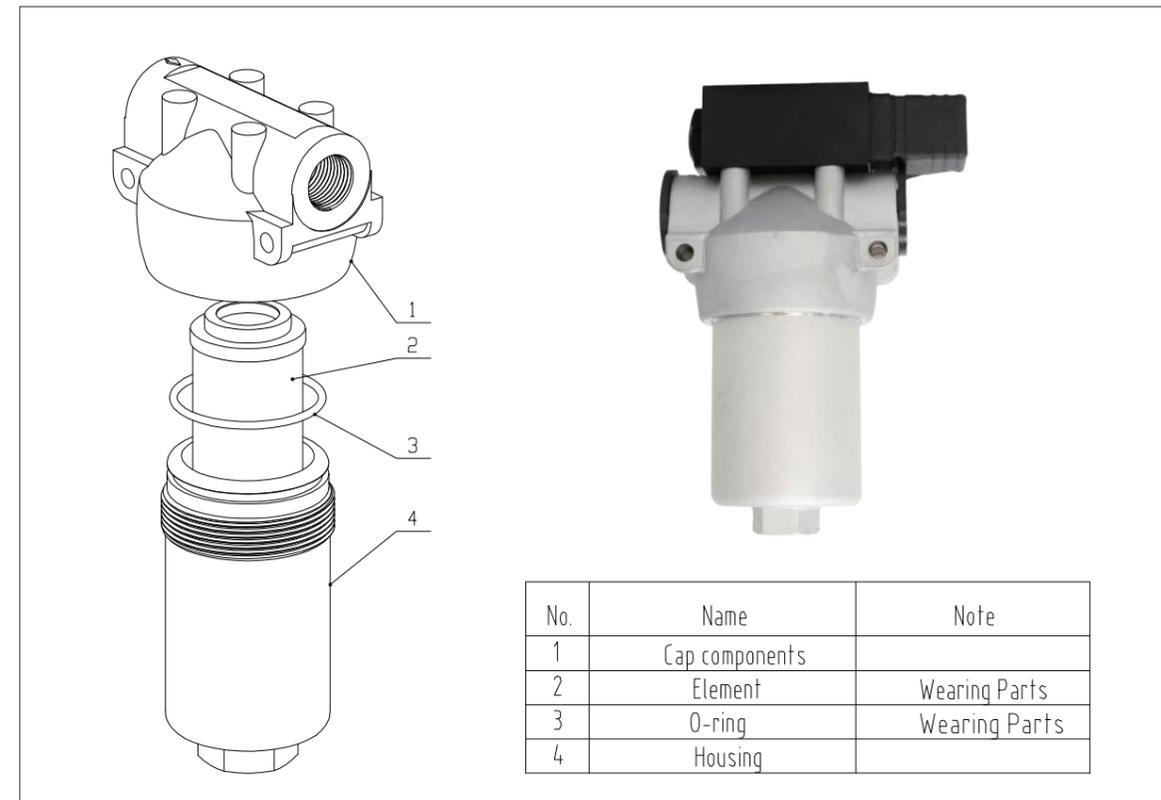
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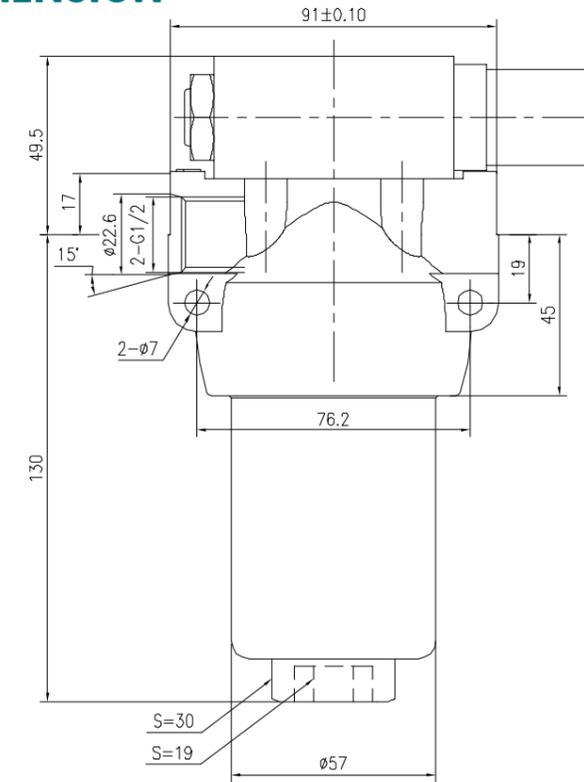
13、XDFI-45 Series Line Filter

SPECIFICATIONS

Type of Construction: Inline Mounted
Max Pressure: 7MPa
Flow Range: 45L/min
Connection: Thread
Operating Temp: -20°C~+120°C
Filter Media: Glass Fiber
Pressure Indicator Option: 0.5MPa
By-pass Valve Cracking Pressure: 0.6~0.7MPa
Filter head, housing material: Aluminium
Filtration ratio: $\beta \geq 200$, Filtration efficiency: $\eta \geq 99.5\%$
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.

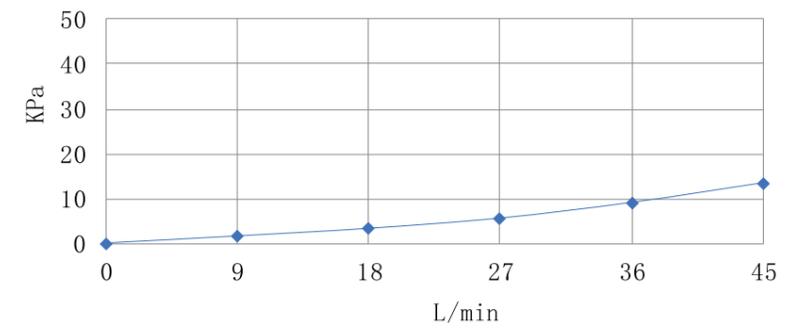


MOUNTING DIMENSION



ELEMENT PRESSURE DROP AGAINST FLOW CURVES

Flow characteristic curve



14, HDF Series Pressure Line Filter

SPECIFICATIONS

Type of Construction: Inline Mounted

Max Pressure: 50MPa

Flow Range: 600L/min

Connection: Flange

Dia: 38mm

Operating Temp: -40°C~+120°C

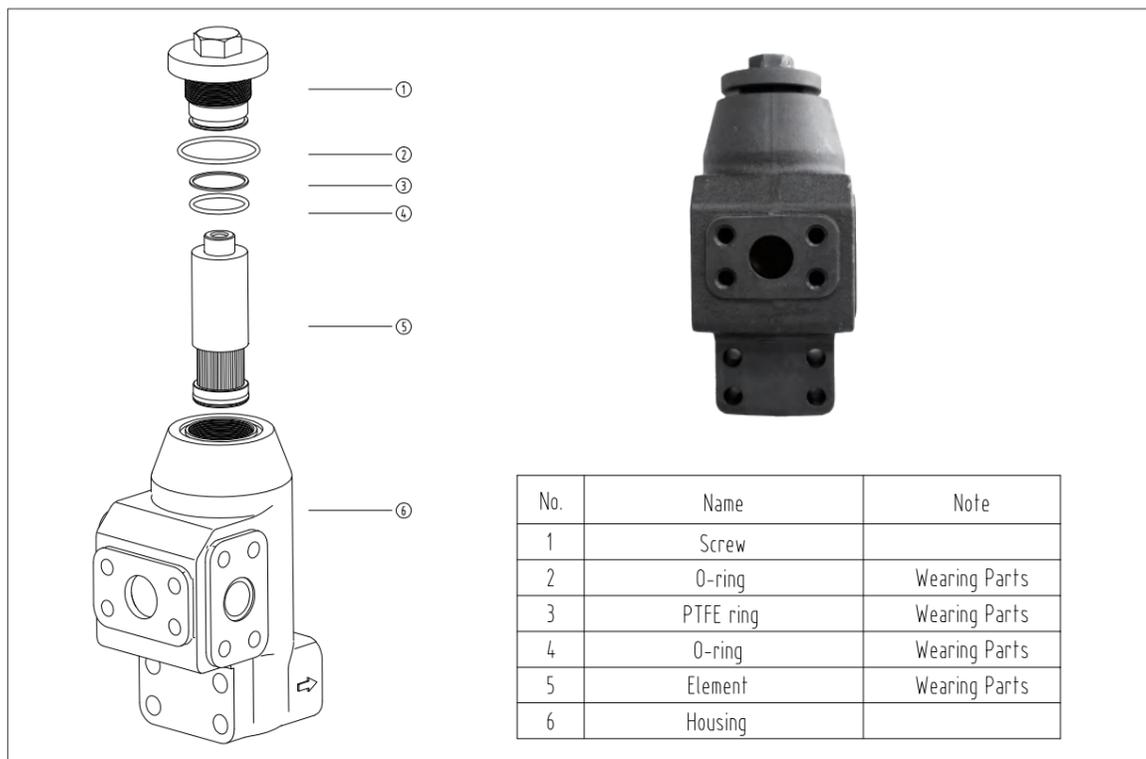
Filter Media: Glass Fiber

Filter head, housing material: Aluminium

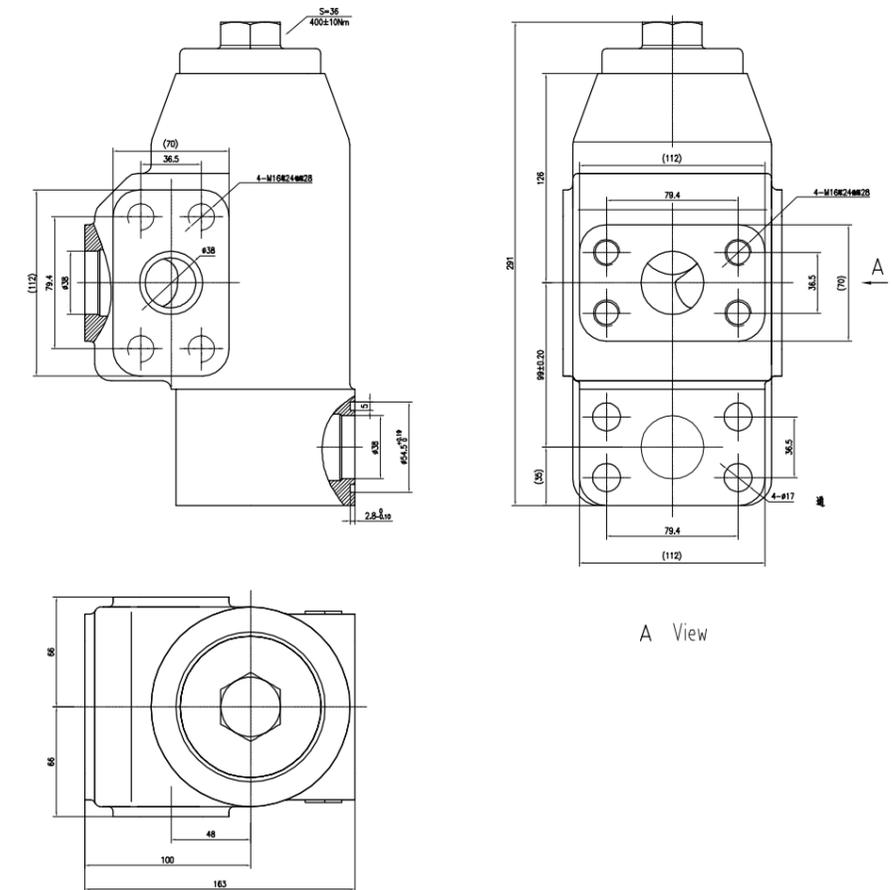
Filtration ratio: $\beta \geq 200$, Filtration efficiency: $\eta \geq 99.5\%$

Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.

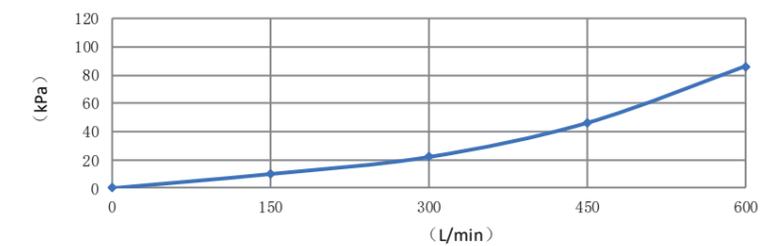


MOUNTING DIMENSION



ELEMENT PRESSURE DROP AGAINST FLOW CURVES

Flow characteristic curve



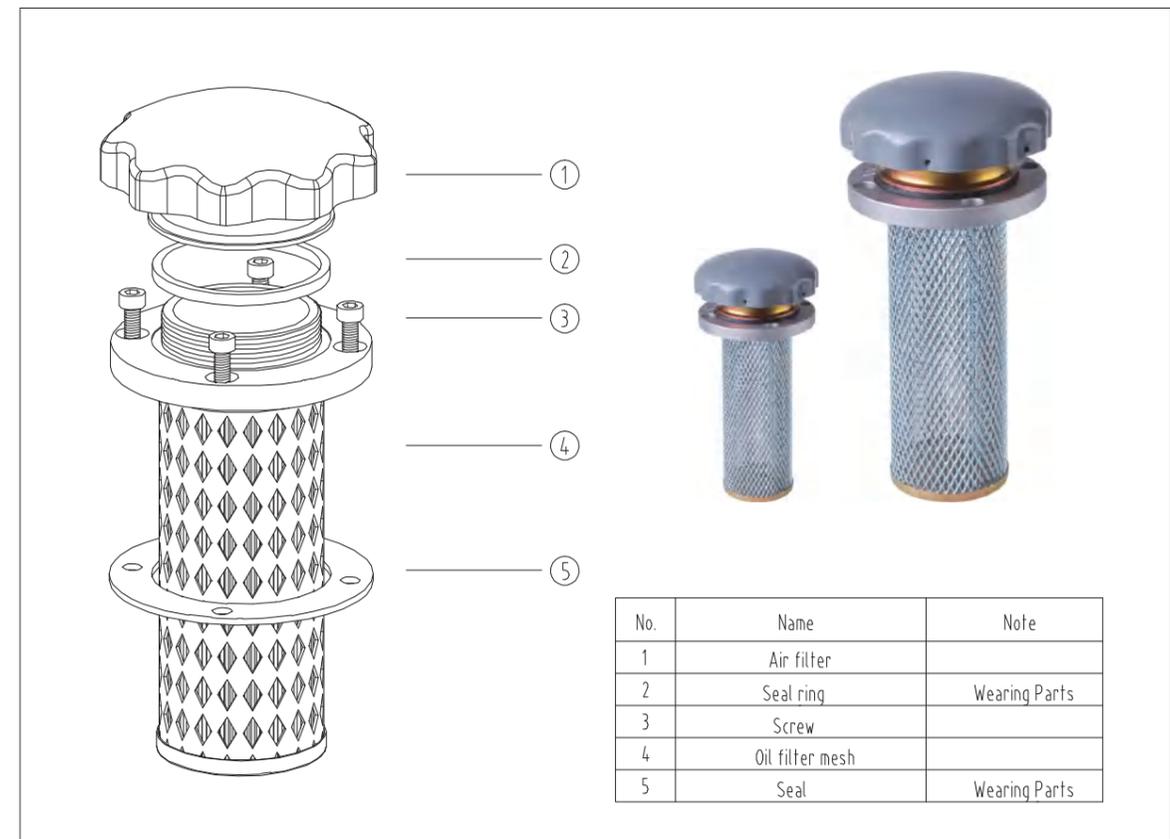
CONTENT

1、 EF-25~120 Series Breather Filter	122
2、 PHG Tank Cap Lock	124
3、 FTC Series Fuel Tank Lock Cover	125
4、 QUQ Series Breather Filte	127
5、 PAG Series Breather Filter	129
6、 PAF Series Pre-pressed Breather Filter	134
7、 PFG Series Lockable Breather Filter	136
8、 SAF Series Lockable Breather Filter	138

1、 EF-25~120 Series Breather Filter

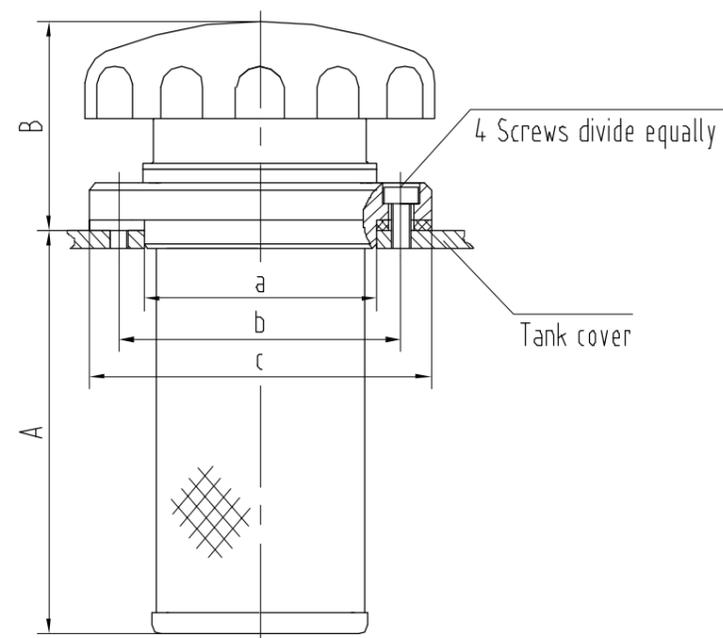
SPECIFICATIONS

Connection: Flange
Operating Temp: -40°C~+100°C
Sealing Material: NBR
Air Filtration Accuracy: 105μm
Oil Filtration Accuracy: 0.42mm



TECHNICAL PARAMETER AND MOUNTING SIZE

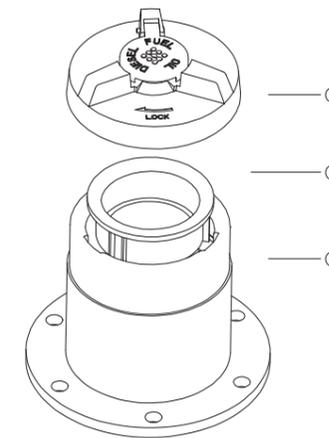
Model	Size (mm)							
	EF1-25	EF2-32	EF3-40	EF4-50	EF5-65	EF6-80	EF7-100	EF8-120
Filter Flow (L/min)	9	14	21	32	47	70	110	160
Air Flow Rate (L/min)	65	105	170	260	450	675	1055	1512
Oil Filter Area (cm ²)	80	120	180	270	400	600	942	1370
A (mm)	80.5	99.5	120	150	190	220	274.5	333
B (mm)	46	42	50.5	56.5	65	72.5	80.5	80
a (mm)	Φ37.5	Φ46.5	Φ54	Φ65	Φ79.5	Φ95.5	Φ116	Φ137.5
b (mm)	Φ51	Φ59	Φ66.5	Φ82	Φ102	Φ120	Φ140	Φ160
c (mm)	Φ62	Φ69.5	Φ79.5	Φ95	Φ120	Φ139	Φ157.5	Φ179
Screw (mm)	M4X10	M4X10	M5X14	M6X14	M8X16	M8X16	M8X20	M8X20



2、PHG Tank Cap Lock

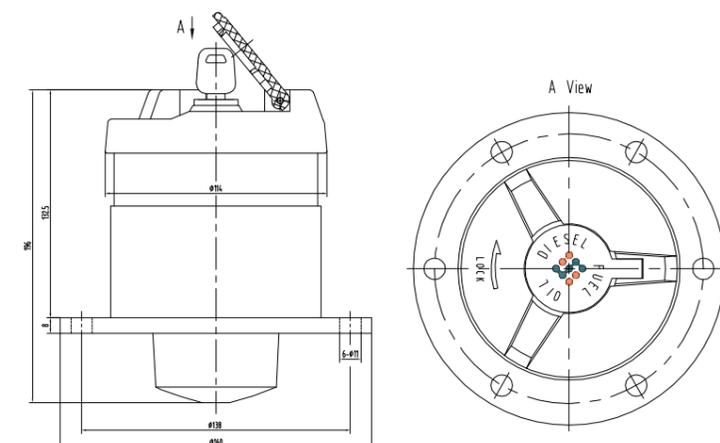
SPECIFICATIONS

Connection: Flange
Operating Temp: -40°C~+100°C
Sealing Material: NBR
Air Filtration Accuracy: 40μm
Oil Filtration Accuracy: 0.5mm
Air Flow Rate: 10 L/min
Filter Head Number: B012877
Filter Mesh Number: B012275

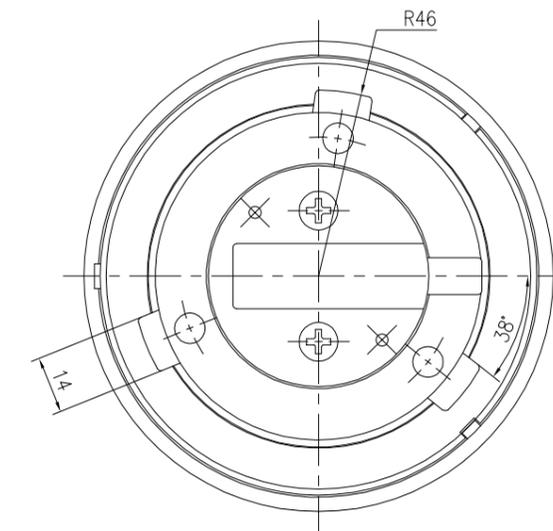
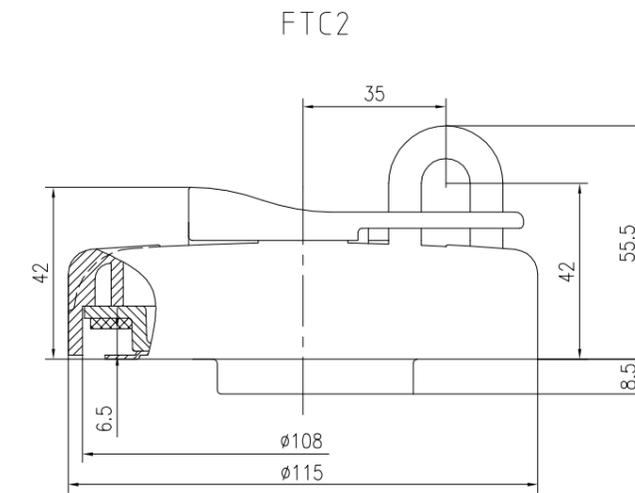


No.	Name	Note
1	Air filter	
2	Oil filter mesh	Wearing parts
3	Mounting base	

MOUNTING DIMENSION

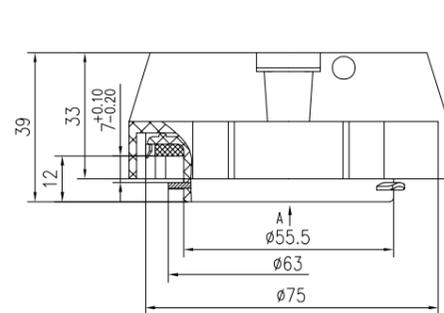


3、FTC Series Fuel Tank Lock Cover

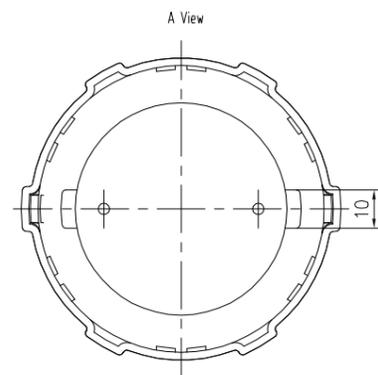
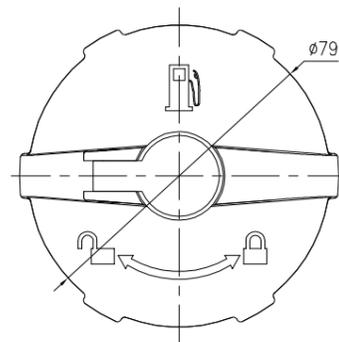


TECHNICAL PARAMETER AND MOUNTING SIZE

Model	Suction opening pressure(MPa)	Exhaust opening pressure(MPa)
FTC	0.0003-0.002	0.01-0.016
FTC2	0-0.003	0-0.005



FTC

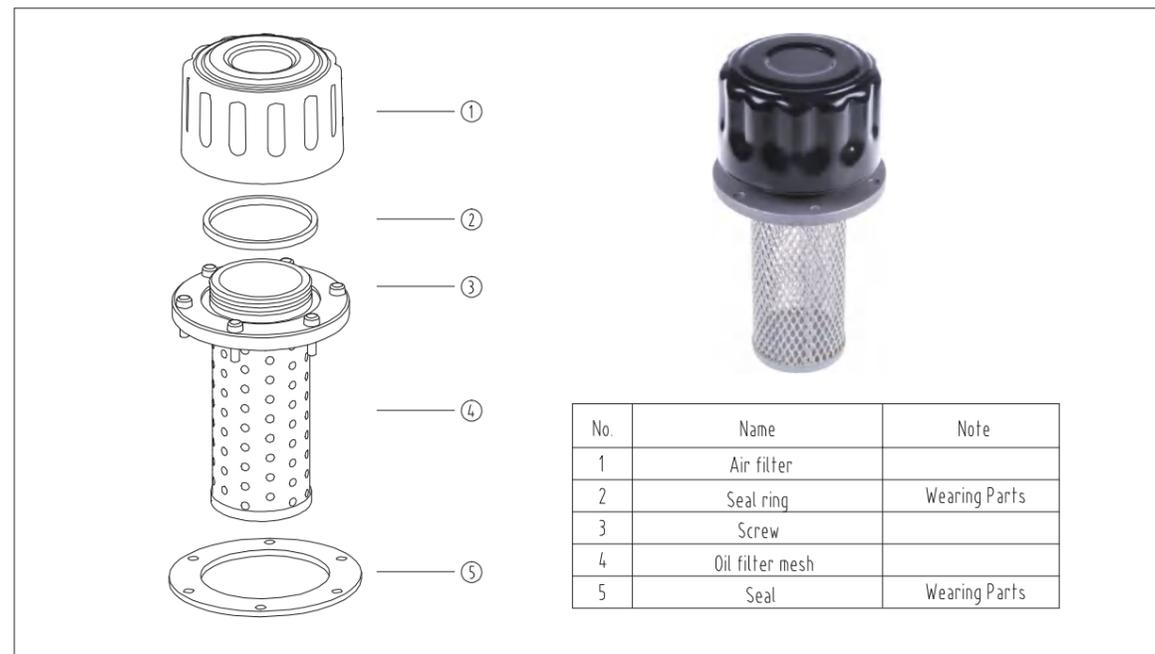
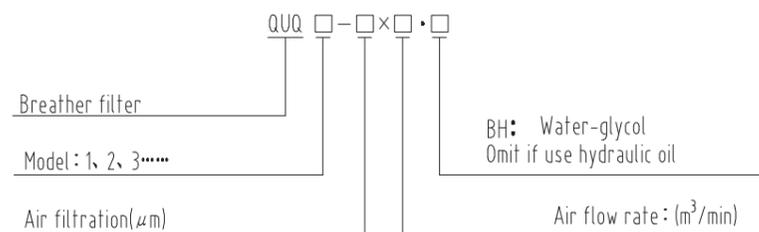


4、QUQ Series Breather Filter

SPECIFICATIONS

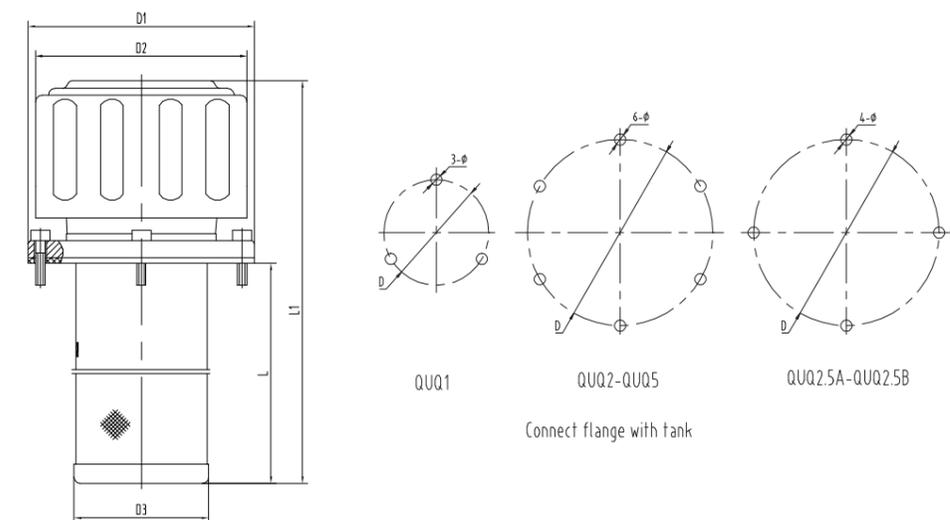
Connection: Flange
Operating Temp: -40°C~+100°C
Sealing Material: NBR
Air Filtration Accuracy: 10, 20, 40μm
Oil Filtration Accuracy: 0.42mm

MODEL CODE



Model	QUQ 1-*×#			QUQ 2-*×#			QUQ 2.5-*×#			QUQ 3-*×#			QUQ 4-*×#			QUQ 5-*×#		
	0.25	0.4	1.0	0.63	1.0	2.5	1.0	2.0	3.0	1.0	2.5	4.0	2.5	4.0	6.3	4.0	6.3	10
Flow Rate (m ³ /min)																		

MOUNTING DIMENSION

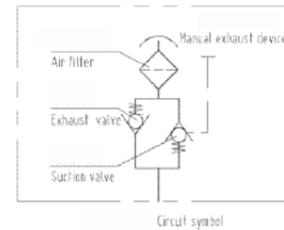


Mode	Size(mm)						Mounting Screw	φ
	D	D1	D2	D3	L	L1		
QUQ1	φ41.3	φ50	φ44	φ28	82	134	3-M4X16	φ4.5
QUQ2	φ73	φ82	φ74.5	φ47	95	161	6-M4X12	
QUQ2b	φ88	φ97	φ76	φ48	98	159	6-M4X8	
QUQ2.5	φ110	φ123	φ113	φ76	150	239	6-M4X8	
QUQ2.5A	φ96	φ114	φ90	φ76	192	241	4-M8X12	φ9
QUQ2.5B	φ105	φ123	φ90	φ80	185	237	4-M8X12	φ9
QUQ3	φ145	φ160	φ150	φ89	195	320	6-M4X12	φ4.5
QUQ4	φ250	φ280	φ256	φ153	254	379	6-M10X20	φ11
QUQ5	φ280	φ320	φ295	φ197	270	395	6-M12X20	φ13

5、PAG Series Breather Filter

FEATURES

This product comes with the function of oil mist recovery, which can avoid the equipment surface from being polluted by the spilled oil mist when the hydraulic system is working at high temperature for a long time.



The upper part of the product is equipped with a manual exhaust device, the tank needs to release pressure when maintaining the system, it can be operated by pressing the manual exhaust valve to realize pressure relief in the tank.

The element should be replaced after using 500 hours to ensure smooth flow of the air. When dismantling the device, we should check the seal components and the damaged element should be replaced timely.

SPECIFICATIONS

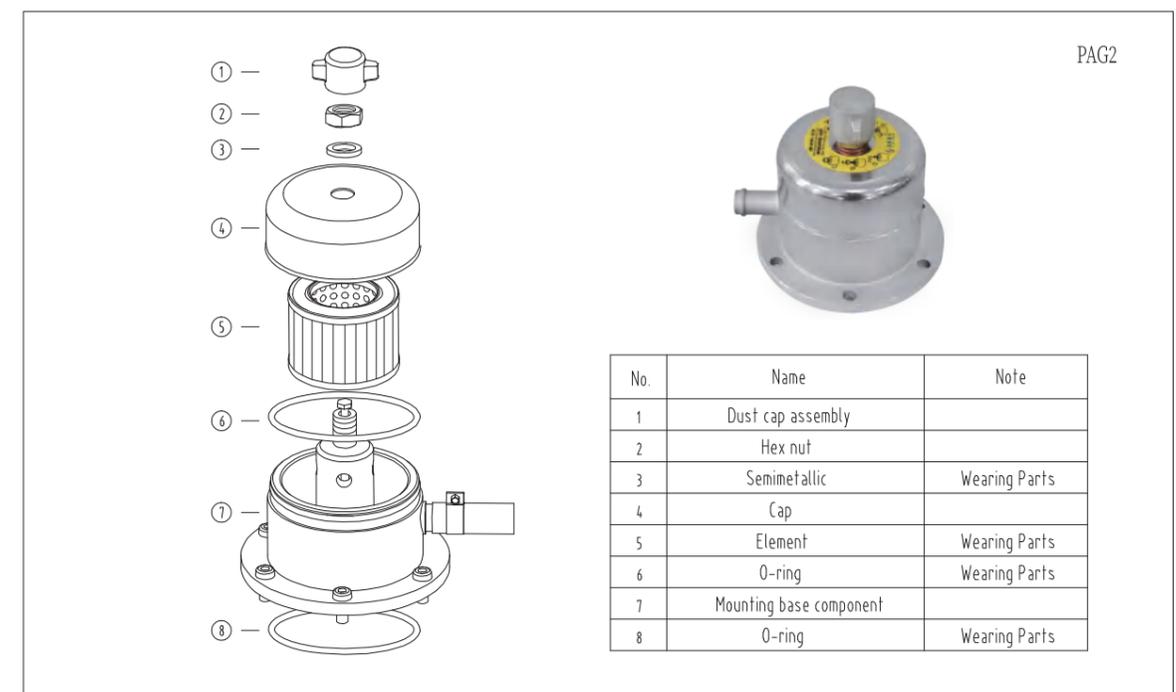
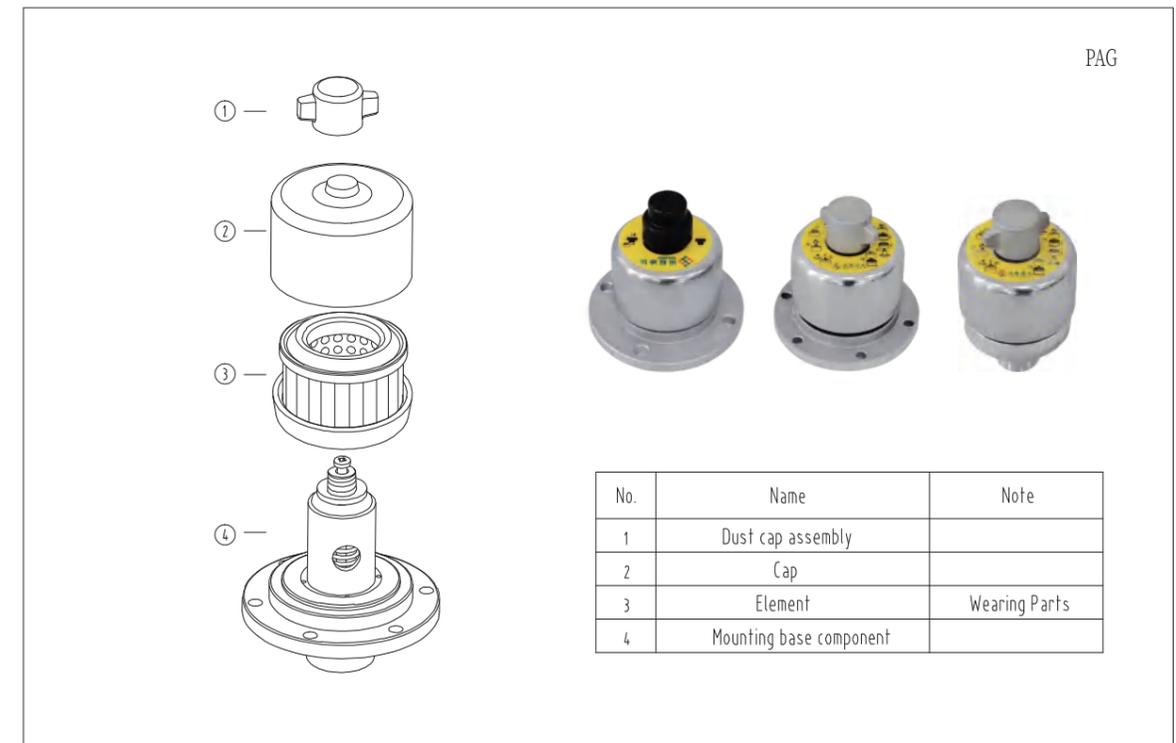
Connection: Flange/Thread

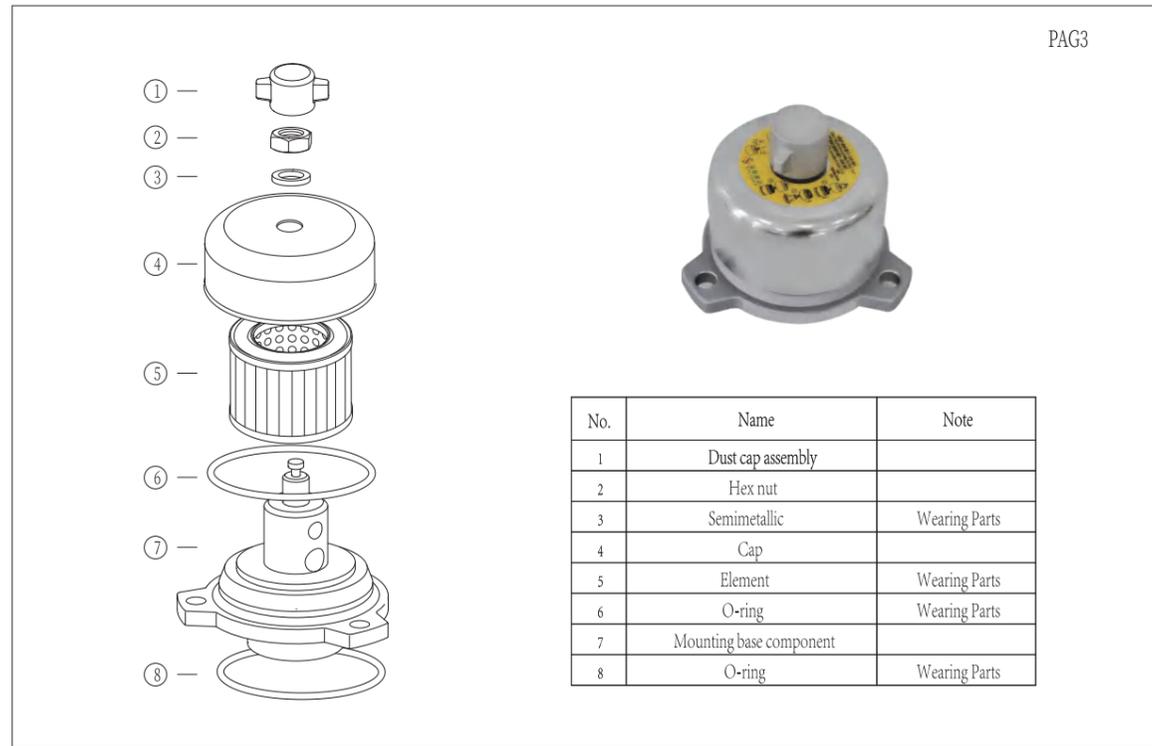
Operating Temp: -40°C~+100°C

Air Flow Rate: 130L/min~150 L/min

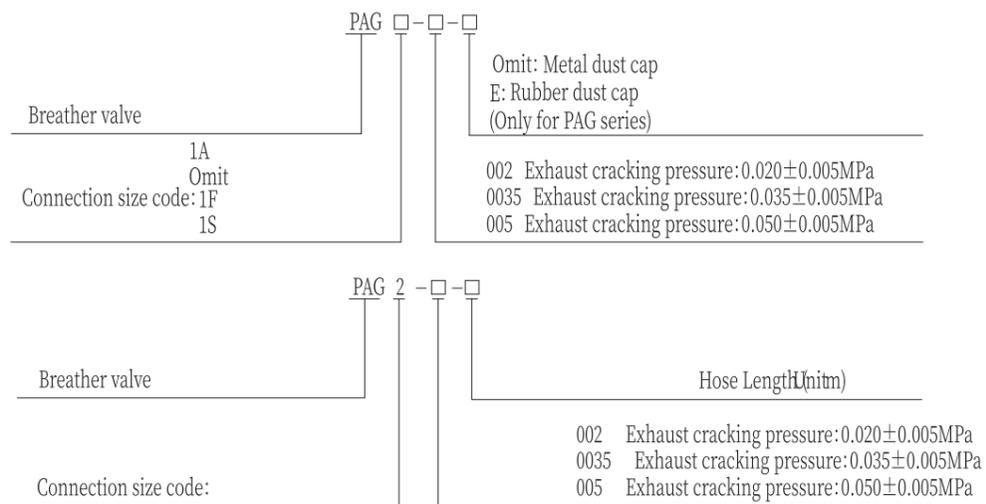
Sealing Material: NBR

Air Filtration Accuracy: 10μm

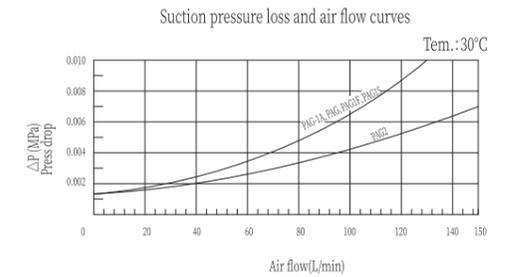
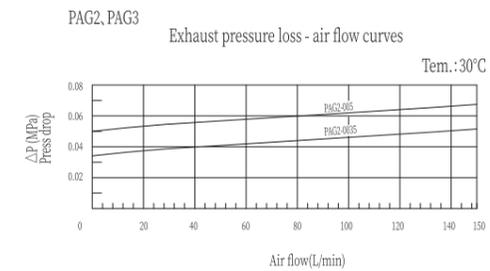
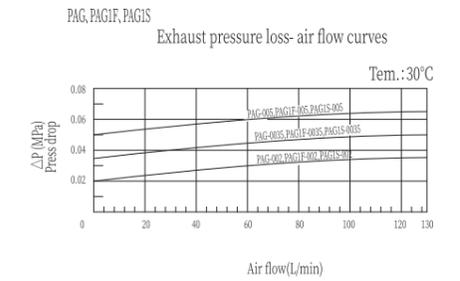
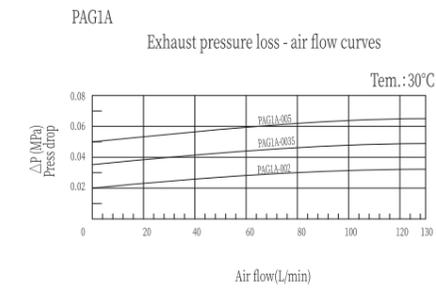




MODEL CODE



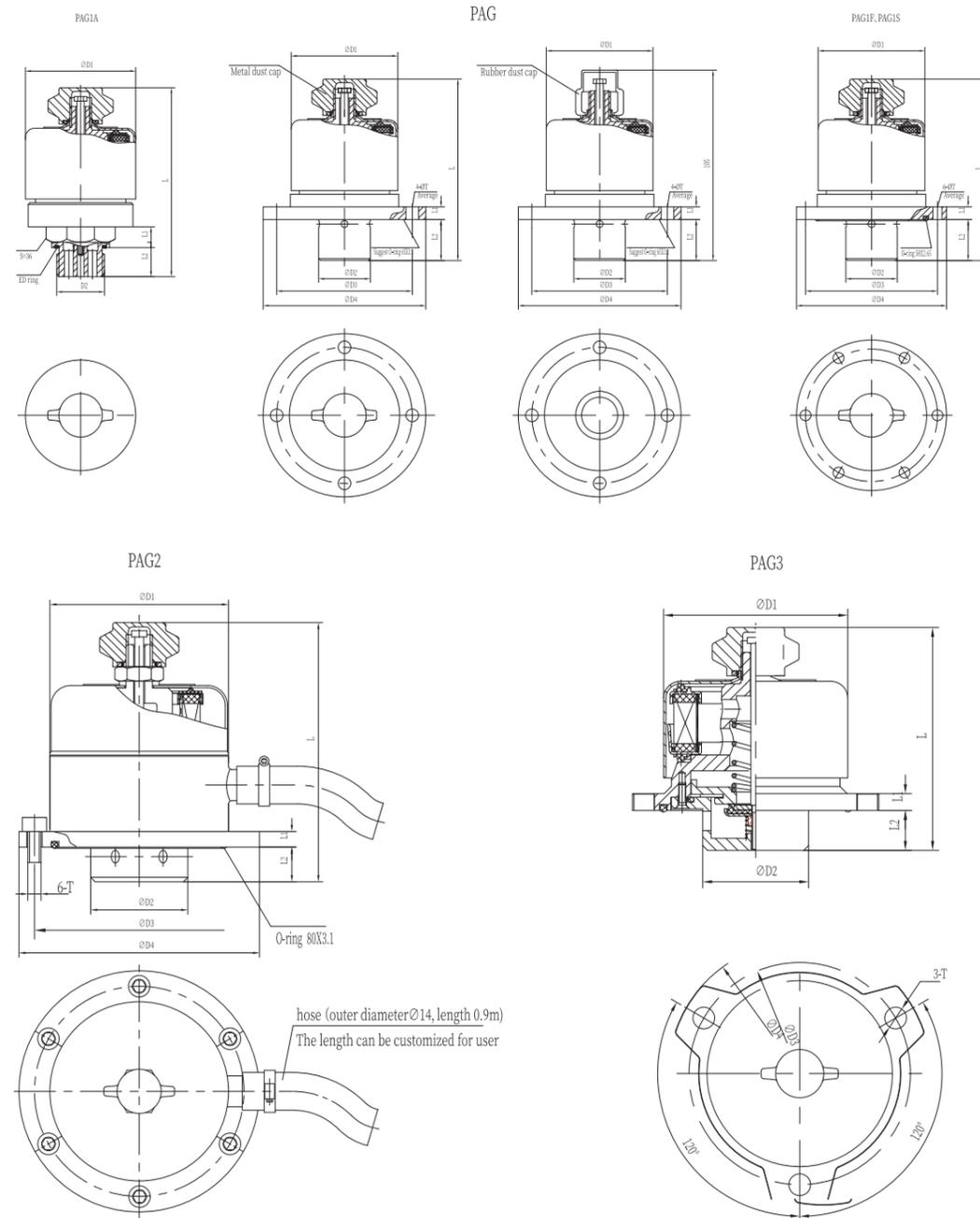
PRESSURE DROP AGAINST FLOW CURVES



MOUNTING DIMENSION

Model	D1	D2	D3	D4	L	L1	L2	T	Number of Element
PAG1A	61.5	G3/4			105	11.5	16		P040214
PAG	61.5	31	75	89.2	99	7	22.5	7	
PAG1F	61.5	31	73	83	99	7	22.5	6	
PAG1S	61.5	31	73	83	99	7	22.5	5	
PAG2	81	44	95	109	118	7	16.5	M6	P040249
PAG3	76.5	44	92	108	93.5	7	16.5	9	PAG3X

6、PAF Pre-Pressed Breather Filter

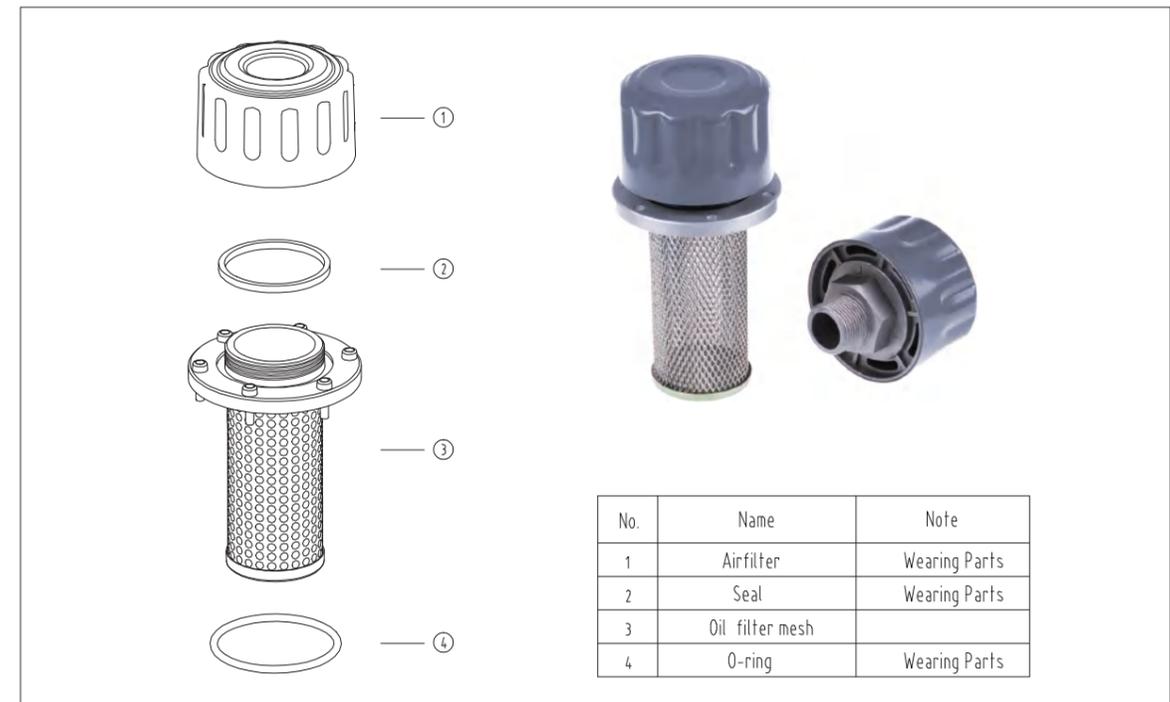


SPECIFICATIONS

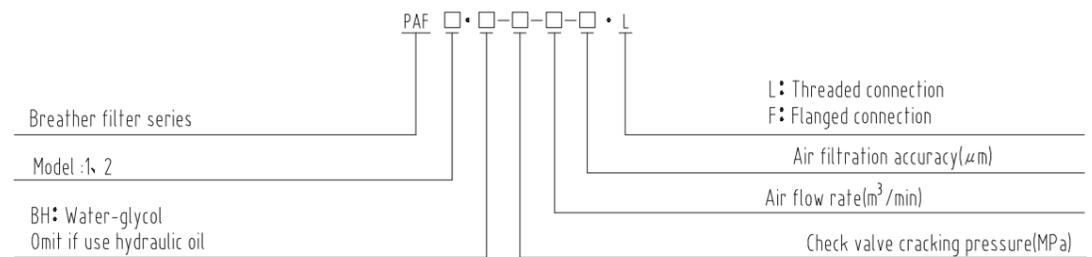
Connection: Flange/Thread

Operating Temp: -40°C~+100°C

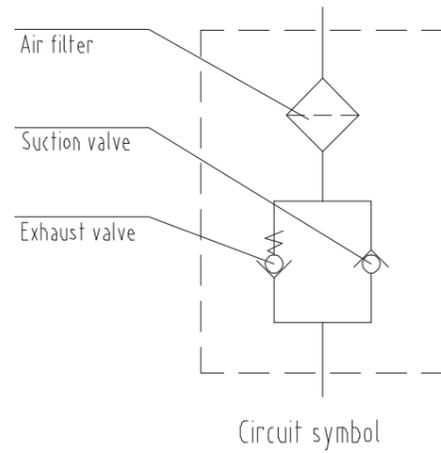
Sealing Material: NBR



MODEL CODE



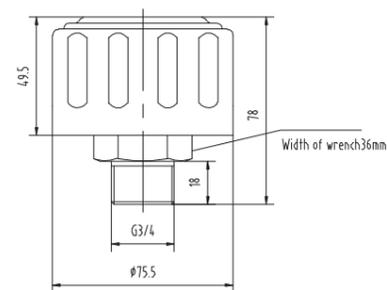
TECHNICAL PARAMETER



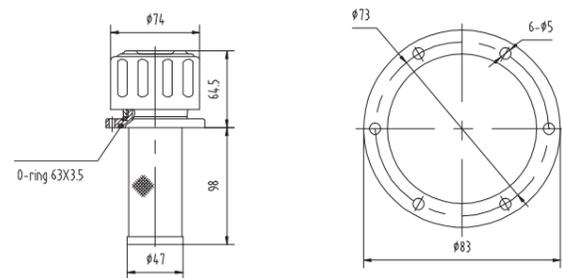
Model	PAF1 - * - * - * L			PAF2 - * - * - * F		
(MPa) Check Valve Cracking Pressure	0.02	0.035	0.07	0.02	0.035	0.07
Air Flow Rate (m ³ /min)	0.45	0.55	0.75	0.45	0.55	0.75
Air Filtration Accuracy (μm)	10	20	40	10	20	40
Oil Filtration Accuracy (mm)				0.42mm		
Connection	Thread (G ³ /4")			Flange (M4 × 16)		

MOUNTING DIMENSION

1、Threaded Connection



2、Flange Connection



7、PFG Series Lockable Breather Filter

SPECIFICATIONS

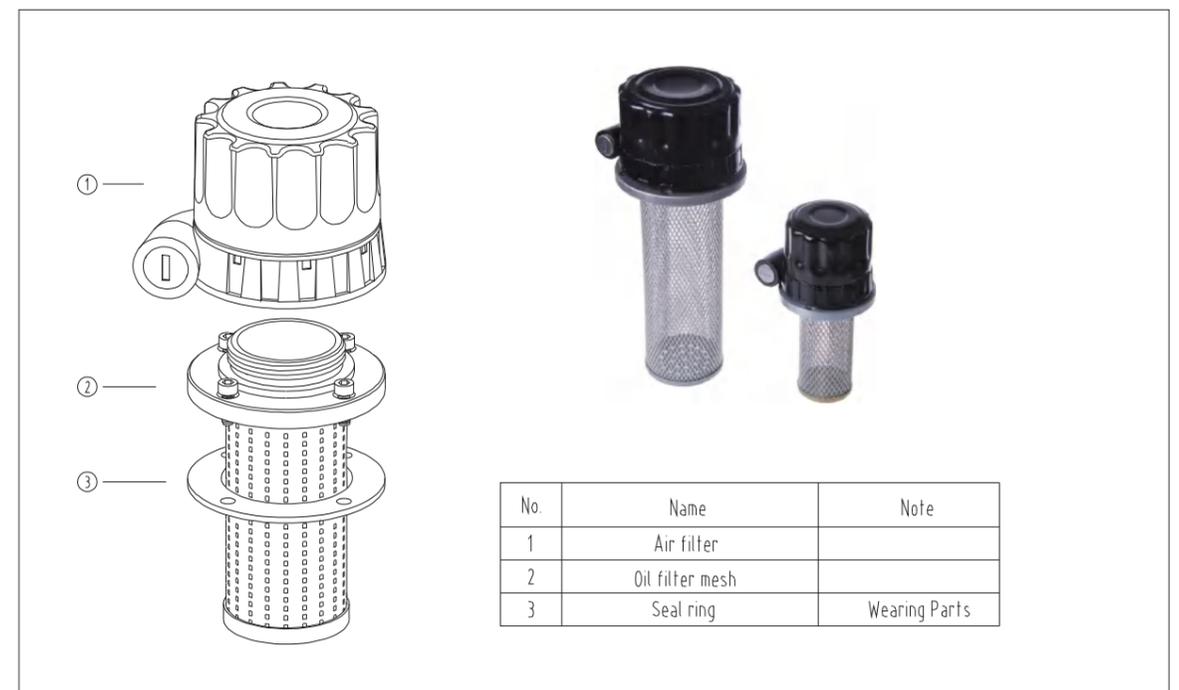
Connection: Flange

Operating Temp: -40°C~+100°C

Sealing Material: NBR

Air Filtration Accuracy: 10μm

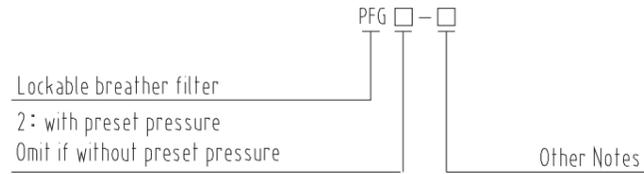
Oil Filtration Accuracy: 0.42mm



TECHNICAL PARAMETER

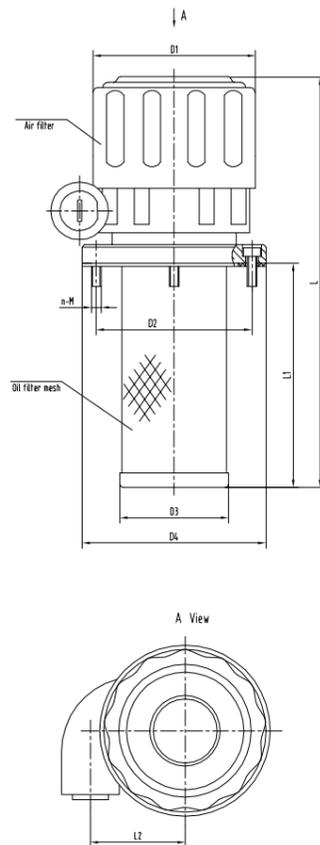
Model	Air Flow Rate	Exhaust Opening Pressure	Suction Opening Pressure	Number of Filter Head
PFG	6.0	0.035	0~-0.005	B010308
PFG(6-M4X8)	6.0	0.035	0~-0.005	
PFG2-BSSY	7.5			B012236

MODEL CODE

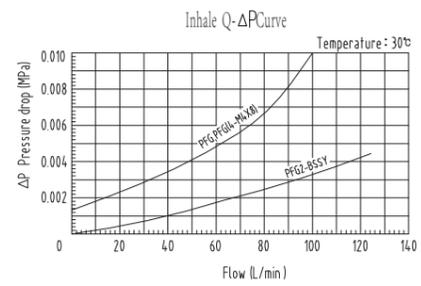
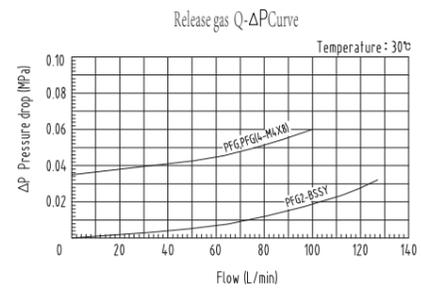


MOUNTING DIMENSION

Model	Size(mm)							n-M
	D1	D2	D3	D4	L	L1	L2	
PFG	Φ76	Φ66.5	Φ51	Φ80	183	100	57.5	4-M5
PFG(6-M4×8)	Φ76	Φ73	Φ51	Φ86	183	102	57.5	6-M4
PFG2-BSSY	Φ102	Φ98	Φ75	Φ113	282	200	70	6-M5



AGAINST FLOW CURVES ELEMENT PRESSURE DROP



8, SAF Series Lockable Breather Filter

SPECIFICATIONS

Connection: Flange

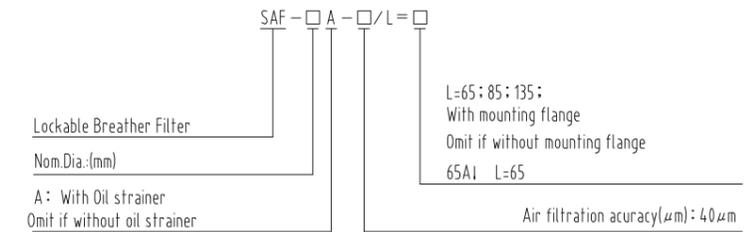
Operating Temp: -40°C~+100°C

Sealing Material: NBR

Air Filtration Accuracy: 40μm

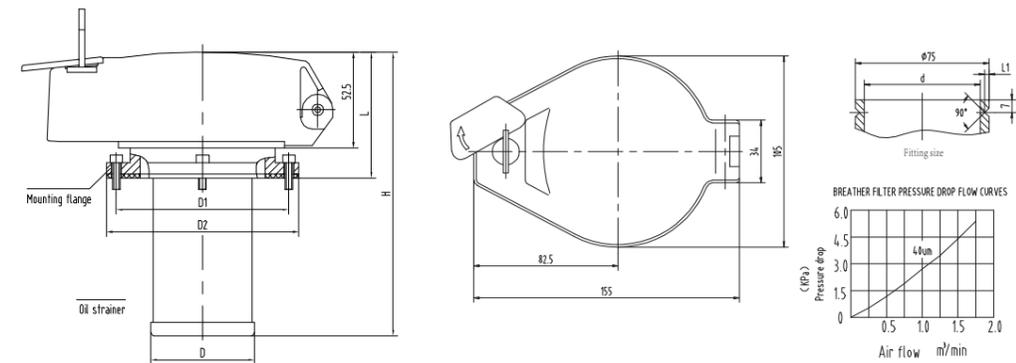
Oil Filtration Accuracy: 0.42mm

MODEL CODE



TECHNICAL PARAMETER AND MOUNTING SIZE

Model	Dia.	Size(mm)						Bolt
		H	D	D1	D2	d	L1	
SAF-50A	50	206	φ54	φ90	φ100	φ65	2.5	6-M4×16
SAF-65A	65	235	φ68	φ105	φ123	φ69	2	4-M8×16



FILTER ELEMENT

● Our elements conform with the following ISO standards

Our elements conform with the following ISO standards

ISO16889 Hydraulic fluid power - Filters - Multi-pass method for evaluating filtration performance of a filter element

ISO2941 Hydraulic fluid power-Filter elements-Verification of burst resistance

ISO2942 Hydraulic fluid power - Filter elements - Verification of fabrication integrity

ISO2943 Hydraulic fluid power-Filter elements-Verification of material compatibility with fluids

ISO3723 Hydraulic fluid power - Filter elements - Method for end load test

ISO3724 Hydraulic fluid power - Filter elements-Verification of fluid fatigue

ISO3968 Hydraulic fluid power-Filters-Evaluation of differential pressure versus flow characteristics

PRODUCTS COMPARISON TABLE

GB/T14039-2002 and NAS 1638 Contamination Grade Table

GB/T14039-2002	NAS 1638	Thenumberofparticlegreater than10µminpermilliliterofoil	particles/ml		Code
			Min	Max.	
(ISO4406:1999)			2500000		>28
28/26/23		140000	1300000	2500000	28
27/25/23		85000	640000	1300000	27
25/23/20		14000	320000	640000	26
23/21/18	12	4600	160000	320000	25
22/20/18		2400	80000	160000	24
22/20/17		2300	40000	80000	23
21/20/16	11	1400	20000	40000	22
21/19/16		1200	10000	20000	21
20/18/15	10	580	5000	10000	20
19/17/14	9	280	2500	5000	19
17/16/13	8	140	1300	2500	18
17/15/12	7	70	640	1300	17
16/14/12	6	40	320	640	16
16/14/11		35	160	320	15
15/13/10	5	14	80	160	14
14/12/9	4	9	40	80	13
13/11/8	3	5	20	40	12
12/11/7	2	3	10	20	11
12/10/7		2.3	5	10	10
11/10/6	1	1.4	2.5	5	9
11/9/6		1.2	1.3	2.5	8
10/8/5	0	0.6	0.64	1.3	7
9/7/4	00	0.3	0.32	0.64	6
8/6/3		0.14	0.16	0.32	5
GB/T14039-2002 The first code is determined by the number of particle greater than or equal to 4µm(C) The second code is determined by the number of article reater than or equal to 6µm(C) The third code is determined by the number of particle greater than or equal to 14µm(C)			0.08	0.16	4
			0.04	0.08	3
			0.02	0.04	2
			0.01	0.02	1
			0.00	0.01	0

HYDAC Filter element model	Our filter element model	HYDAC Filter element model	Our filter element model	HYDAC Filter element model	Our filter element model
0060R*BN/HC	SO0060R*BN/HC	0950R*BN/HC	SO0950R*BN/HC	0330D*BN/HC	SO0330D*BN/HC
0060R*W/HC	SO0060R*W/HC	0950R*W/HC	SO0950R*W/HC	0330D*BH	SO0330D*BH
0060R*BN	SO0060R*BN	0950R*P	SO0950R*P	0330D*BN	SO0330D*BN
0060R*P	SO0060R*P	0950R*W	SO0950R*W	0330D*P	SO0330D*P
0060R*W	SO0060R*W	0950R*V	SO0950R*V	0330D*W	SO0330D*W
0060R*V	SO0060R*V	1300R*BN/HC	SO1300R*BN/HC	0330D*V	SO0330D*V
0110R*BN/HC	SO0110R*BN/HC	2600R*BN/HC	SO2600R*BN/NC	0500D*BH/HC	SO0500D*BH/HC
0110R*W/HC	SO0110R*W/HC	1300R*W/HC	SO1300R*W/HC	0500D*BN/HC	SO0500D*BN/HC
0110R*BN	SO0110R*BN	2600R*W/HC	SO2600R*W/NC	0500D*BH	SO0500D*BH
0110R*P	SO0110R*P	1300R*BN	SO1300R*BN	0500D*BN	SO0500D*BN
0110R*W	SO0110R*W	1300R*P	SO1300R*P	0500D*P	SO0500D*P
0110R*V	SO0110R*V	1300R*W	SO1300R*W	0500D*W	SO0500D*W
0160R*BN/HC	SO0160R*BN/NC	1300R*V	SO1300R*V	0500D*V	SO0500D*V
0160R*W/HC	SO0160R*W/NC	0060D*BH/HC	SO0060D*BH/HC	0660D*BH/HC	SO0660D*BH/HC
0160R*BN	SO0160R*BN	0060D*BN/HC	SO0060D*BN/HC	0660D*BN/HC	SO0660D*BN/HC
0160R*P	SO0160R*P	0060D*BH	SO0060D*BH	0660D*BH	SO0660D*BH
0160R*W	SO0160R*W	0060D*BN	SO0060D*BN	0660D*BN	SO0660D*BN
0160R*V	SO0160R*V	0060D*P	SO0060D*P	0660D*P	0660D*P
0240R*BN/HC	SO0240R*BN/HC	0060D*W	SO0060D*W	0660D*W	SO0660D*W
0240R*W/HC	SO0240R*W/HC	0060D*V	SO0060D*V	0660D*V	SO0660D*V
0240R*BN	SO0240R*BN	0110D*BH/HC	SO0110D*BH/HC	SFE15	SOSFE15
0240R*P	SO0240R*P	0110D*BN/NC	SO0110D*BN/HC	SFE25	SOSFE25
0240R*W	SO0240R*W	0110D*BH	SO0110D*BH	SFE50	SOSFE50
0240R*V	SO0240R*V	0110D*BN	SO0110D*BN	SFE100	SOSFE100
0330R*BN/HC	SO0330R*BN/HC	0110D*P	SO0110D*P	SFE180	SOSFE180
		0110D*W	SO0110D*W		

Note:* represents filtration accuracy 003, 005, 010, 020 and 025µm

PRODUCTS COMPARISON TABLE

HYDAC Filter element model	Our filter element model	PALL Filter element model	Our filter element model	PALL Filter element model	Our filter element model	PALL Filter element model	Our filter element model
0330R*W/HC	SO0330R*W/HC	HC9800FDS8Z	SO9800FD12-8Z	HC9600FDS8H	SO9600FD12-8H	HC9650FDS8H	SO9650FD12-8H
0330R*BN	SO0330R*BN	HC9800FDT8H	SO9800FD25-8H	HC9600FDS8Z	SO9600FD12-8Z	HC9650FDS8Z	SO9650FD12-8Z
0330R*P	SO0330R*P	HC9800FDT8Z	SO9800FD25-8Z	HC9600FDT8H	SO9600FD25-8H	HC9650FDT8H	SO9650FD25-8H
0330R*W	SO0330R*W	HC9800FXP8H	SO9800FX03-8H	HC9600FDT8Z	SO9600FD25-8Z	HC9650FDT8Z	SO9650FD25-8Z
0330R*V	SO0330R*V	HC9800FXP8Z	SO9800FX03-8Z	HC9600FDT13H	SO9600FD25-13H	HC9650FXP8H	SO9650FX03-8H
0550R*BN/HC	SO0550R*BN/HC	HC9651FUT16Z	SO9651FU25-16Z	HC9600FDT13Z	SO9600FD25-13Z	HC9650FXP8Z	SO9650FX03-8Z
0500R*W/HC	SO0500R*W/HC	HC9651FUT16H	SO9651FU25-16H	HC9600FXP13H	SO9600FX03-13H	HC9651FUP8H	SO9651FU03-8H
0500R*BN	SO0500R*BN	HC9651FUP16Z	SO9651FU02-16Z	HC9600FXP13Z	SO9600FX03-13Z	HC9600FDP13H	SO9600FD03-13H
0500R*P	SO0500R*P	HC8300FDP8H	SO8300FD03-8H	HC9601FUP13H	SO9601FU03-13H	HC9601FUT8Z	SO9601FU25-8Z
0500R*W	SO0500R*W	HC8300FDR8Z	SO8300FD03-8Z	HC9601FUP13Z	SO9601FU03-13Z	HC9601FUT8H	SO9601FU25-8H
0500R*V	SO0500R*V	HC8300FDN8H	SO8300FD06-8H	HC9601FUT13H	SO9601FU25-13H	HC9601FUP8Z	SO9601FU03-8Z
0660R*BN/HC	SO0660R*BN/HC	HC8300FDN8Z	SO8300FD06-8Z	HC9601FUT13Z	SO9601FU25-13Z	HC9601FUP8H	SO9601FU03-8H
0660R*W/HC	SO0660R*W/HC	HC8300FDS8H	SO8300FD12-8H	HC9600FDP16H	SO9600FD03-16H	HC9600FXP8Z	SO9600FX03-8Z
0660R*BN	SO0660R*BN	HC8300FDS8Z	SO8300FD12-8Z	HC9600FDP16Z	SO9600FD03-16Z	HC9600FXP8H	SO9600FX03-8H
0660R*P	SO0660R*P	HC8300FDT8H	SO8300FD25-8H	HC9600FDN16H	SO9600FD06-16H	HC9651FUP8Z	SO9651FU03-8Z
0660R*W	SO0660R*W	HC8300FDT8Z	SO8300FD25-8Z	HC9600FDN16Z	SO9600FD06-16Z	HC9651FUT8H	SO9651FU25-8H
0660R*V	SO0660R*V	HC8300FXP8H	SO8300FX03-8H	HC9600FDS16H	SO9600FD12-16H	HC9651FUT8Z	SO9651FU25-8Z
0850R*BN/HC	SO0850R*BN/HC	HC8300FXP8Z	SO8300FX03-8Z	HC9600FDS16Z	SO9600FD12-16Z	HC9650FDP16H	SO9650FD03-16H
0850R*W/HC	SO0850R*W/HC	HC8300FXN8H	SO8300FX06-8H	HC9600FDT16H	SO9600FD25-16H	HC9650FDP16Z	SO9650FD03-16Z
0850R*BN	SO0850R*BN	HC8300FXN8Z	SO8300FX06-8Z	HC9600FDT16Z	SO9600FD25-16Z	HC9650FDN16H	SO9650FD06-16H
0850R*P	SO0850R*P	HC8300FDP16H	SO8300FD03-16H	HC9600FXP16H	SO9600FX03-16H	HC9650FDN16Z	SO9650FD06-16Z
0850R*W	SO0850R*W	HC8300FDP16Z	SO8300FD03-16Z	HC9600FXP16Z	SO9600FX03-16Z	HC9650FDS16H	SO9650FD12-16H
0850R*V	SO0850R*V	HC8300FDN16H	SO8300FD06-16H	HC9601FUP16H	SO9601FU03-16H	HC9650FDS16Z	SO9650FD12-16Z
0110D*V	SO0110D*V	HC8300FDN16Z	SO8300FD06-16Z	HC9601FUP16Z	SO9601FU03-16Z	HC9650FDT16H	SO9650FD25-16H
0160D*BH/HC	SO0160D*BH/HC	HC8300FDS16H	SO8300FD12-16H	HC9601FUT16H	SO9601FU25-16H	HC9650FDT16Z	SO9650FD25-16Z
0160D*BN/HC	SO0160D*BN/HC	HC8300FDS16Z	SO8300FD12-16Z	HC9601FUT16Z	SO9601FU25-16Z	HC9650FXP16H	SO9650FX03-16H
0160D*BH	SO0160D*BH	HC8300FDT16H	SO8300FD25-16H	HC9020FDP4H	SO9020FD03-4H	HC9650FXP16Z	SO9650FX03-16Z
0160D*BN	SO0160D*BN	HC8300FDT16Z	SO8300FD25-16Z	HC9020FDP4Z	SO9020FD03-4Z	HC9651FUP16H	SO9651FU03-16H
0160D*P	SO0160D*P	HC8300FXP16H	SO8300FX03-16H	HC9020FDN4H	SO9020FD06-4H	HC9651FUP16Z	SO9651FU03-16Z
0160D*W	SO0160D*W	HC8300FXP16Z	SO8300FX03-16Z	HC9020FDN4Z	SO9020FD06-4Z	HC9651FUT16H	SO9651FU25-16H
0160D*V	SO0160D*V	HC8300FXN16H	SO8300FX06-16H	HC9020FDS4H	SO9020FD12-4H	HC9651FUT16Z	SO9651FU25-16Z
0240D*BH/HC	SO0240D*BH/HC	HC8300FXN16Z	SO8300FX06-16Z	HC9020FDS4Z	SO9020FD12-4Z	HC9020FDT4Z	SO9020FD25-4Z
0240D*BN/HC	SO0240D*BN/HC	HC8300FDP39H	SO8300FD03-39H	HC9020FDT4H	SO9020FD25-4H	HC9021FUP4H	SO9021FU03-4H
0240D*BH	SO0240D*BH	HC8300FDP39Z	SO8300FD03-39Z	HC9020FDT8Z	SO9020FD25-8Z	HC9021FUP4Z	SO9021FU03-4Z

HYDAC Filter element model	Our filter element model	PALL Filter element model	Our filter element model	PALL Filter element model	Our filter element model	PALL Filter element model	Our filter element model
D240D*BN	SO0240D*BN	HC8300FDN39H	SO8300FD06-39H	HC9021FUP8H	SO9021FU03-8H	HC9021FUT4H	SO9021FU25-4H
0240D*P	SO0240D*P	HC8300FDN39Z	SO8300FD06-39Z	HC9021FUP8Z	SO9021FU03-8Z	HC9021FUT4Z	SO9021FU25-4Z
0240D*W	SO0240D*W	HC8300FDS39H	SO8300FD12-39H	HC9021FUT8H	SO9021FU25-8H	HC9020FDP8H	SO9020FD03-8H
0240D*V	SO0240D*V	HC8300FDS39Z	SO8300FD12-39Z	HC9021FUT8Z	SO9021FU25-8Z	HC9020FDP8Z	SO9020FD03-8Z
0280D*BH/HC	SO0280D*BH/HC	HC8300FDT39H	SO8300FD25-39H	HC9400FDP13H	SO9400FD03-13H	HC9020FDN8H	SO9020FD06-8H
0280D*BN/HC	SO0280D*BN/HC	HC8300FDT39Z	SO8300FD25-39Z	HC9400FDP13Z	SO9400FD03-13Z	HC9020FDN8Z	SO9020FD06-8Z
0280D*BH	SO0280D*BH	HC8300FXP39H	SO8300FX03-39H	HC9400FDN13H	SO9400FD06-13H	HC9020FDS8H	SO9020FD12-8H
0280D*BN	SO0280D*BN	HC8300FXP39Z	SO8300FX03-39Z	HC9400FDN13Z	SO9400FD06-13Z	HC9020FDS8Z	SO9020FD12-8Z
0280D*P	SO0280D*P	HC8300FXN39H	SO8300FX06-39H	HC9400FDS13H	SO9400FD12-13H	HC9020FDT8H	SO9020FD25-8H
0280D*W	SO0280D*W	HC8300FXN39Z	SO8300FX06-39Z	HC9400FDS13Z	SO9400FD12-13Z	HC9600FDS13Z	SO9600FD12-13Z
0280D*V	SO0280D*V	HC9600FDP4H	SO9600FD03-4H	HC9400FDT13H	SO9400FD25-13H	HC9600FDS13H	SO9600FD12-13H
0330D*BH/HC	SO0330D*BH/HC	HC9600FDP4Z	SO9600FD03-4Z	HC9400FDT13Z	SO9400FD25-13Z	HC9600FDN13Z	SO9600FD06-13Z
		HC9600FDN4H	SO9600FD06-4H	HC9400FXP13H	SO9400FX03-13H	HC9600FDN13H	SO9600FD06-13H
		HC9600FDN4Z	SO9600FD06-4Z	HC9400FXP13Z	SO9400FX03-13Z	HC9600FDP13Z	SO9600FD03-13Z
		HC9600FDS4H	SO9600FD12-4H	HC9400FDP26H	SO9400FD03-26H	HC9800FDP4H	SO9800FD03-4H
		HC9600FDS4Z	SO9600FD12-4Z	HC9400FDP26Z	SO9400FD03-26Z	HC9800FDP4Z	SO9800FD03-4Z
		HC9600FDT4H	SO9600FD25-4H	HC9400FDN26H	SO9400FD06-26H	HC9800FDN4H	SO9800FD06-4H
		HC9600FDT4Z	SO9600FD25-4Z	HC9400FDN26Z	SO9400FD06-26Z	HC9800FDN4Z	SO9800FD06-4Z
		HC9600FXP4H	SO9600FX03-4H	HC9400FDS26H	SO9400FD12-26H	HC9800FDS4H	SO9800FD12-4H
		HC9600FXP4Z	SO9600FX03-4Z	HC9400FDS26Z	SO9400FD12-26Z	HC9800FDS4Z	SO9800FD12-4Z
		HC9601FUP4H	SO9601FU03-4H	HC9400FDT26H	SO9400FD25-26H	HC9800FDT4H	SO9800FD25-4H
		HC9601FUP4Z	SO9601FU03-4Z	HC9400FDT26Z	SO9400FD25-26Z	HC9800FDT4Z	SO9800FD25-4Z
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		HC9601FUT4Z	SO9601FU25-4Z	HC9400FXP26Z	SO9400FX03-26Z	HC9800FXP4Z	SO9800FX03-4Z
		HC9600FDP8H	SO9600FD03-8H	HC9650FDP8H	SO9650FD03-8H	HC9800FDP8H	SO9800FD03-8H
		HC9600FDP8Z	SO9600FD03-8Z	HC9650FDP8Z	SO9650FD03-8Z	HC9800FDP8Z	SO9800FD03-8Z
		HC9600FDN8H	SO9600FD06-8H	HC9650FDN8H	SO9650FD06-8H	HC9800FDN8H	SO9800FD06-8H
		HC9600FDN8Z	SO9600FD06-8Z	HC9650FDN8Z	SO9650FD06-8Z	HC9800FDN8Z	SO9800FD06-8Z
						HC9800FDS8H	SO9800FD12-8H

Note:* represents filtration accuracy 003, 005, 010, 020 and 025µm

CONTENT

1、 The Indicators for Filter	145
2、 GYB Series Tube Level Meter	148
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4、 GYW Series Tube Level Meter	153
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6、 LV and GLV Series Check Valve	159

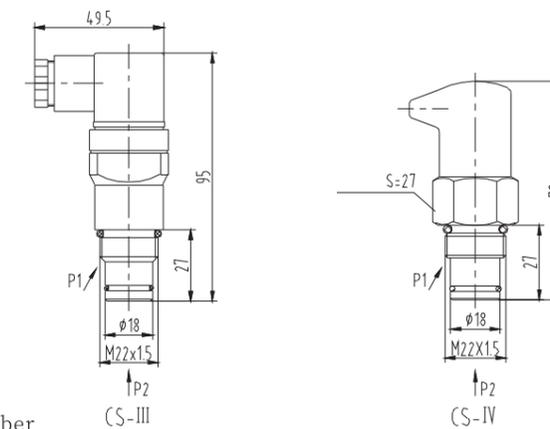
1、 The Indicators for Filter



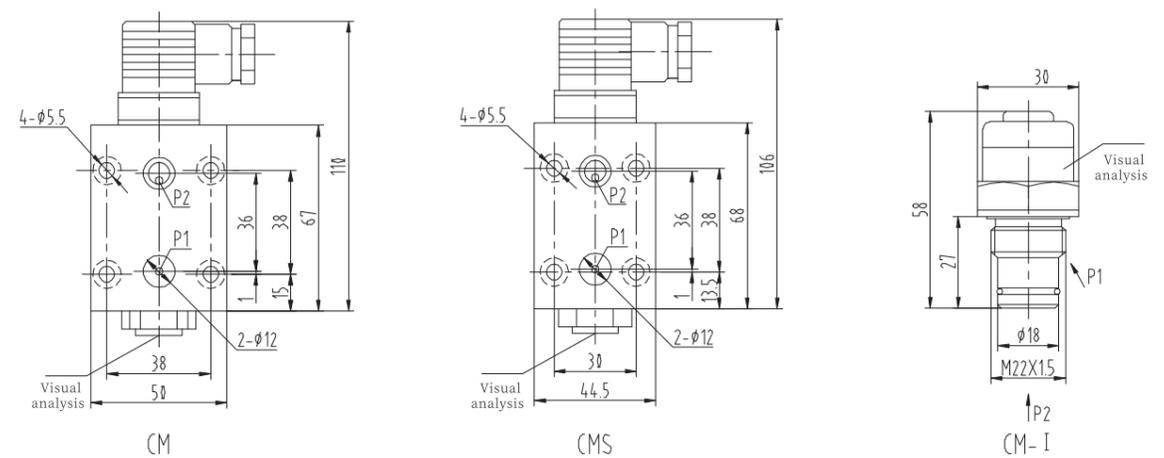
(1) CS, CM and CM Differential Pressure Indicator

CS and CS-IV indicator will alarm for the filter plug or cut off the control circuit related to hydraulic system with switch to protect the security of the system.

The application of CMS differential pressure indicator is similar to the CM, CMS is equipped with a visual instruction, the red button of the indicator should be reset in manual mode after replacing the filter.



P1: High pressure chamber
P2: Low pressure chamber

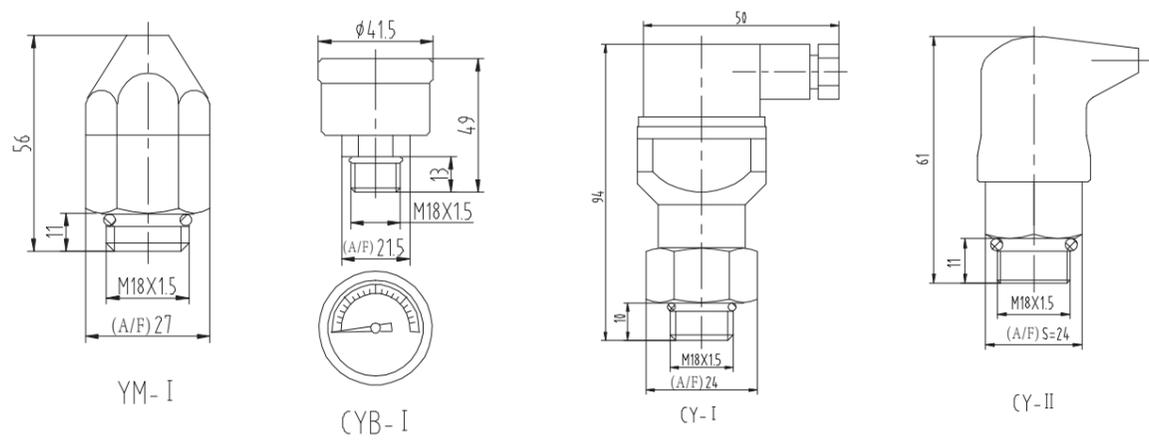


(二) CY, YM and CYB Pressure indicator

CY pressure indicator will alarm for the filter plug or cut off the control circuit related to hydraulic system with switch mode to protect the security of the system.

YM- I pressure indicator is a visual type, the red button of the indicator should be reset in manual mode after replacing the filter.

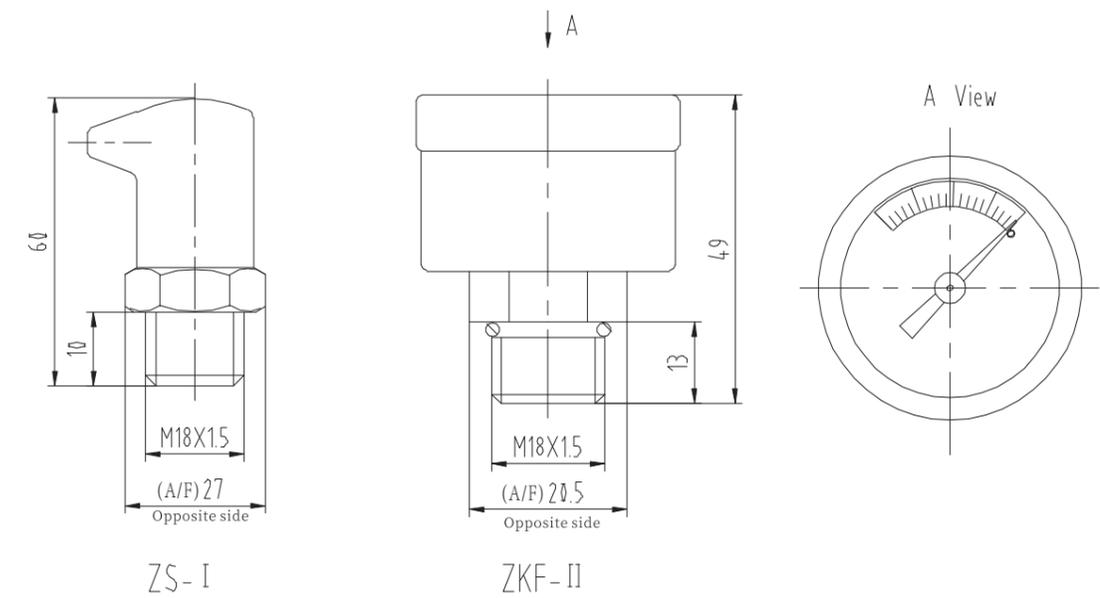
CYB- I pressure indicator, the pointer will fall into the red zone when the return oil pressure reaches to 0.35MPa to show that the element should be cleaned or replaced, the indicator or buzzer alarm can be switched on with a switch as well.



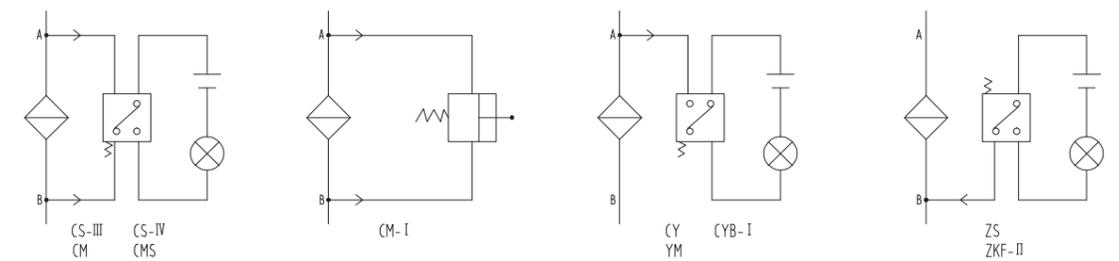
(三) ZS and ZKF-II Vacuum Pressure Indicator

ZS- I is a vacuum pressure indicator. When the vacuum degree reaches to the set value, it will be switched on to the indicator lamp or buzzer alarm suggesting that the element should be replaced or cleaned or cut off the circuit to ensure the safety operation of oil pump.

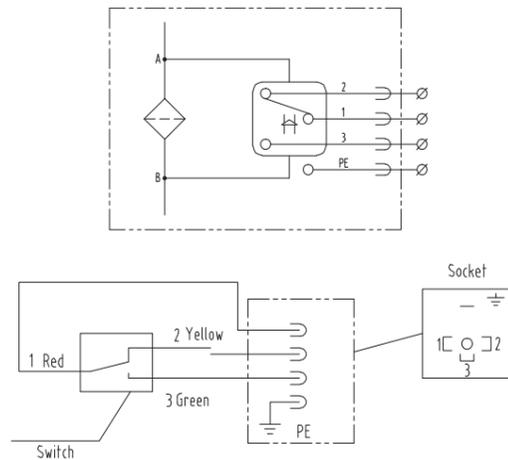
ZKF-II vacuum pressure indicator can indicate the vacuum valve directly, the pointer will fall into the red zone when the vacuum valve reaches to 0.018MPa to show that the element should be cleaned or replaced, the indicator or buzzer alarm can be switched on with a switch as well.



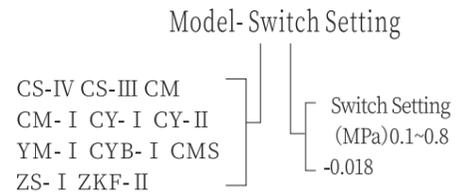
SCHMATIC DIAGRAM OF INDICATOR



DIFFERENTIAL PRESSURE INDICATOR CONNECTION GUIDE



ORDER NOTE



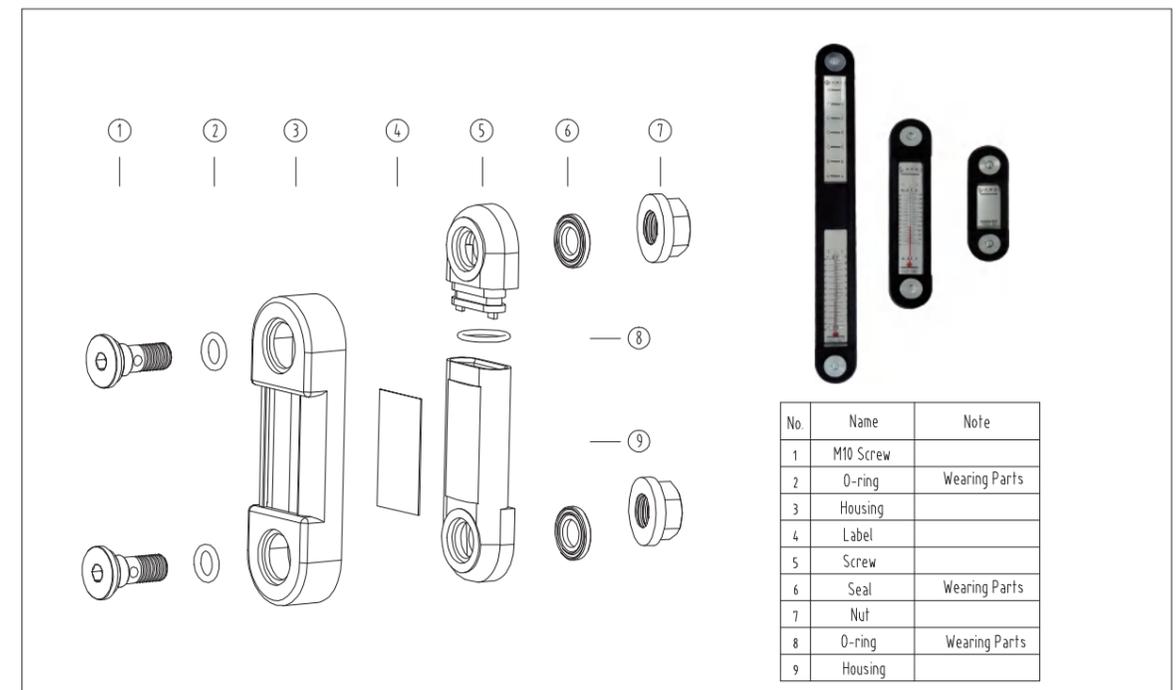
Note: CYB- I and ZKF- II only applied in DC 24V,2A,cannot be used together with the computer.
Ex: CS-III-0.35 ZS- I -0.018

MAIN TECHNICAL PAREMETER OF INDICATOR

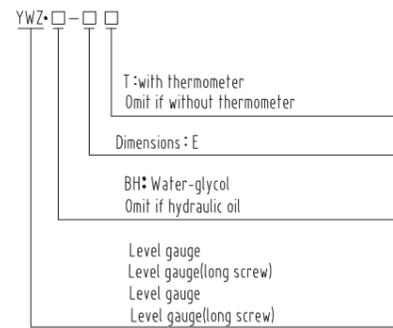
Model	Press. (Mpa)	Switch Setting (Mpa)	Temp (°C)	Indicator Power
CM- I、CS-III、CS-IV CM、CMS	32	0.1+0.05、0.2+0.05 0.35+0.05、0.5+0.05 0.6+0.05、0.8+0.05	-20~+80	≤220V 0.25A
CY- I、CY- II、YM- I	1.6	0.35+0.05		DC 24V 2A
CYB- I				≤220V
ZS- I、ZKF- II	-0.1	-0.01~-0.018 -0.018		DC 24V 2A

SPECIFICATIONS

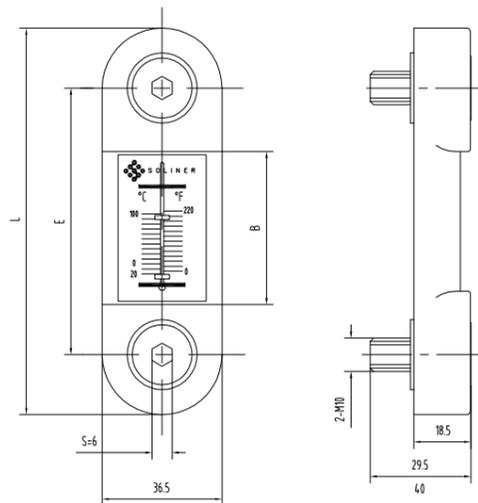
Type of Construction: Tank side Mounted
Operating Pressure: ≤0.15MPa
Connection: Thread
Operating Temp: -20°C~+100°C
Bowl Housing: Aluminum Alloy, PA66
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.
If the thickness of the tank wall is less than 10mm, should be welded with installation seat to avoid oil spills after installation



MODEL CODE



MOUNTING DIMENSION

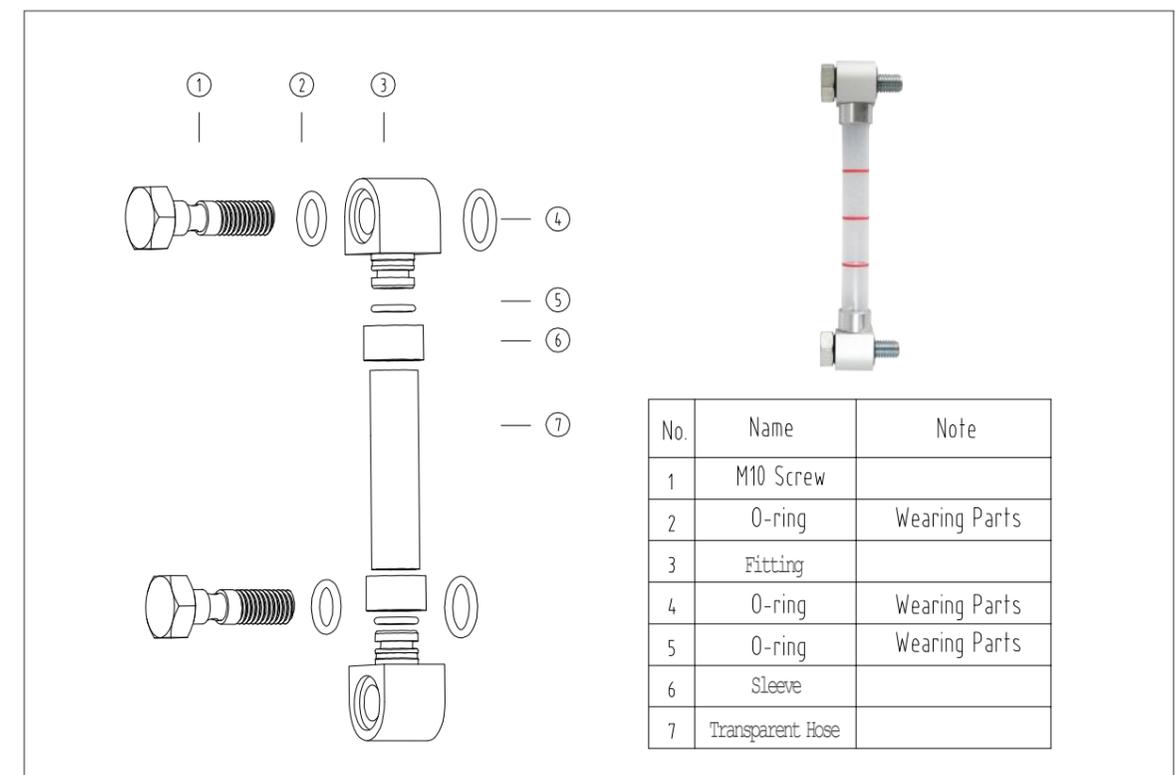


Model	Size(mm)			Model	Size(mm)			Model	Size(mm)		
	L	E	B		L	E	B		L	E	B
YWZ-76	113	76	42	YWZ-150	187	150	116	YWZ-300	337	300	271
YWZ-76T				YWZ-150T				YWZ-300T			
YWZ-80	117	80	46	YWZ-160	197	160	126	YWZ-350	387	350	321
YWZ-80T				YWZ-160T				YWZ-350T			
YWZ-100	137	100	66	YWZ-200	237	200	166	YWZ-400	437	400	371
YWZ-100T				YWZ-200T				YWZ-400T			
YWZ-125	162	125	91	YWZ-250	287	250	216	YWZ-450	487	450	421
YWZ-125T				YWZ-250T				YWZ-450T			
YWZ-127	164	127	93	YWZ-254	291	254	220	YWZ-500	537	500	471
YWZ-127T				YWZ-254T				YWZ-500T			

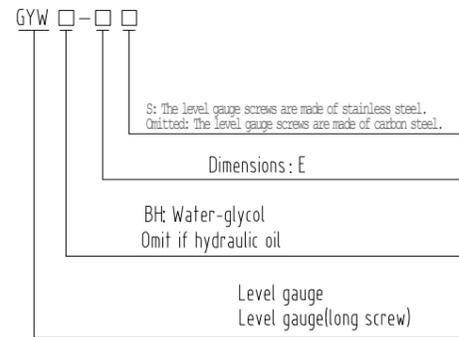
4、GYW Series Tube Level Meter

SPECIFICATIONS

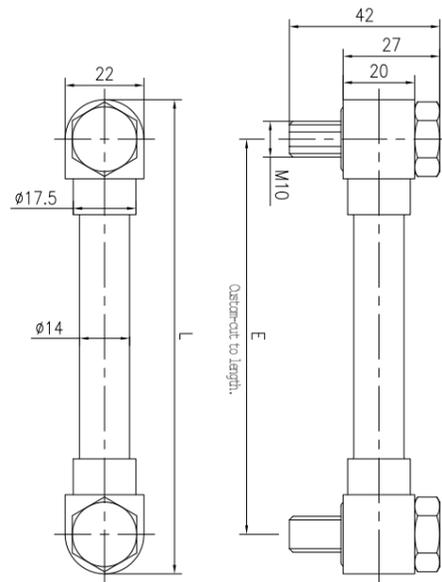
Type of Construction: Tank side Mounted
Operating Pressure: $\leq 0.15\text{MPa}$
Connection: Thread
Operating Temp: $-20^{\circ}\text{C}\sim+100^{\circ}\text{C}$
Bowl Housing: Aluminum Alloy, PA66
Sealing Material: NBR
Fluid Compatibility: Suitable for mineral oil, synthetic oil
Please contact our sales staff if there is any additional media you need.
If the thickness of the tank wall is less than
10mm, should be welded with installation seat to avoid oil spills after installation



MODEL CODE



MOUNTING DIMENSION



Model	Size(mm)		Model	Size(mm)	
	L	E		L	E
GYW-80S	102	80	GYW-254S	276	254
GYW-110S	132	110	GYW-450S	472	450
GYW-127S	149	127	GYW-500S	522	500
GYW-140	162	140	GYW-560S	582	560
GYW-150S	172	150	GYW-700S	722	700
GYW-176S	198	176	GYW-800S	822	800
GYW-200S	222	200	GYW-900S	922	900

5、Valve manifolds

SPECIFICATIONS

Pressure Reducing Valve Set Pressure: 35 Bar

Relief Valve Set Pressure: 50 bar

Working Flow: 20L/min

Valve Block Material: Aluminum Alloy

Filter material: Glass Fiber

Sealing Material: NBR

Operating Temp: -20°C~+80°C

Operating Voltage: DC12~24V

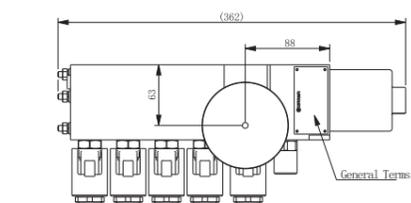
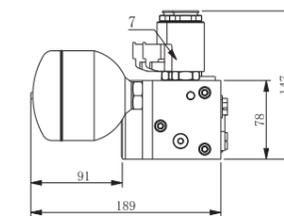
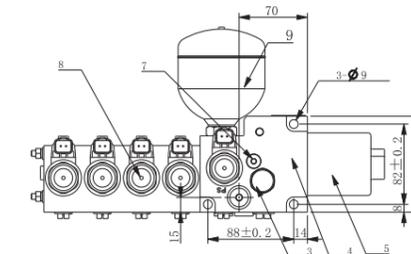
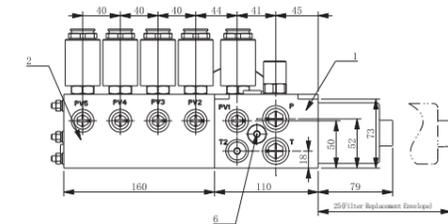
Oil Port: 3/4/5

Fluid Compatibility: Suitable for mineral oil, synthetic oil

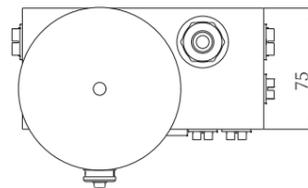
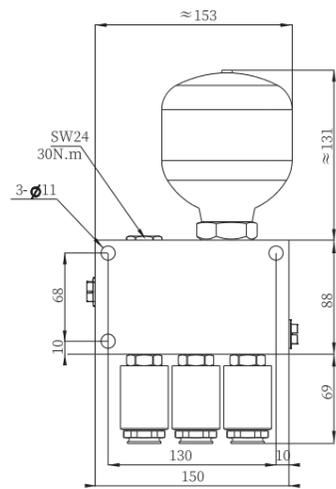
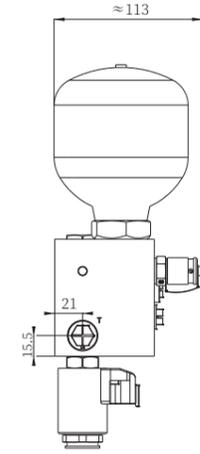
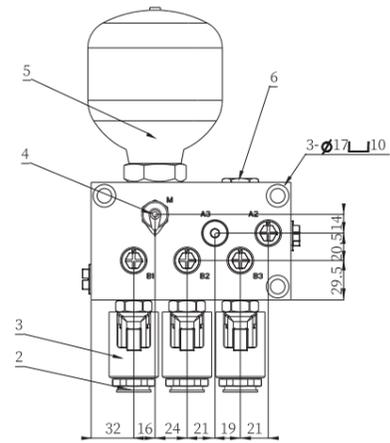
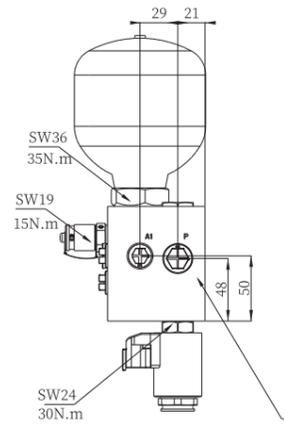
Please contact our sales staff if there is any additional media you need.

MOUNTING DIMENSION

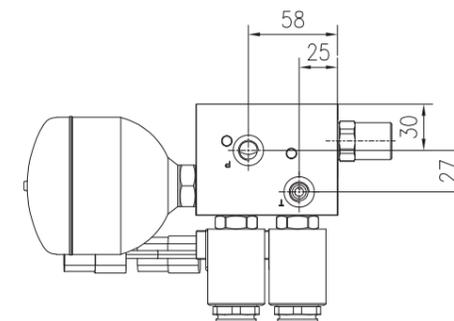
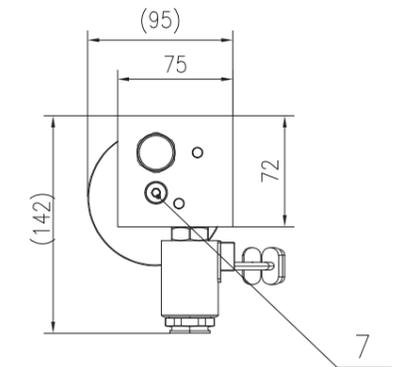
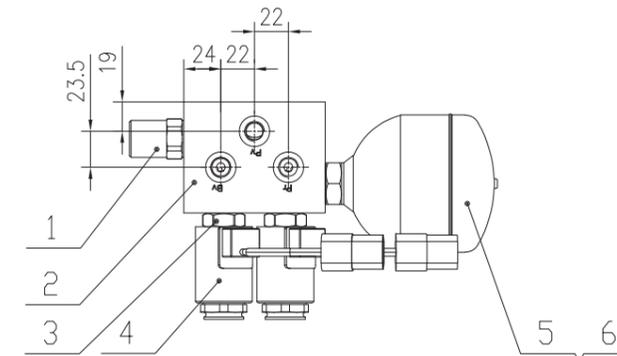
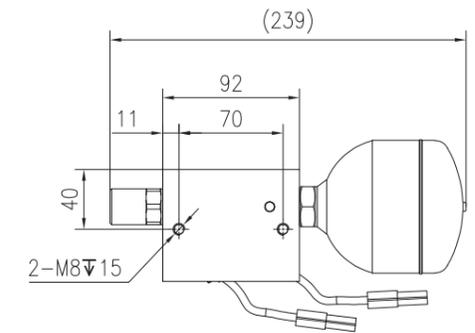
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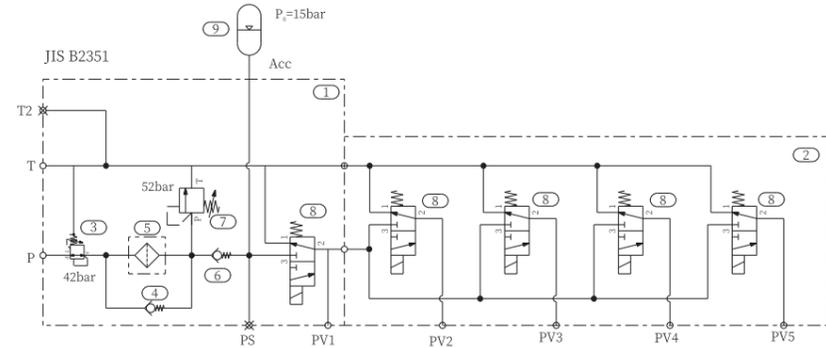
BPLD-A-06/A/XG-M-D



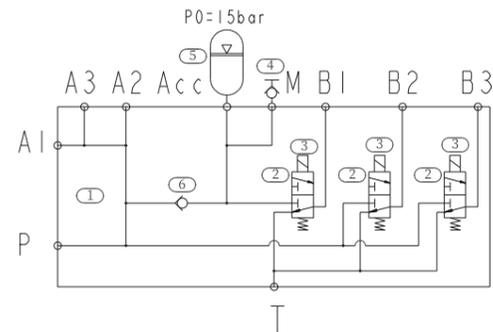
BPLD-C-06/5/SY-S



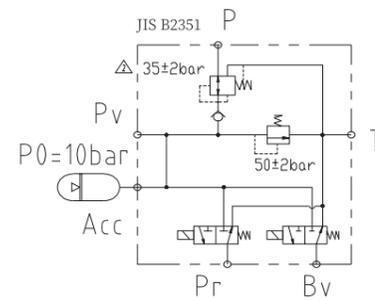
SCHEMATIC DIAGRAM



BPLD-A-06/8/XY-6



BPLD-A-06/4/XG-M-D



BPLD-C-06/5/SY-S

6、LV And GLV Series Check Valve

SPECIFICATIONS

Connection: Cartridge/ Flange

Max Pressure: 2.0~2.5Mpa

Flow Range: 120~800L/min

Bowl Housing: Aluminum Alloy, Steel

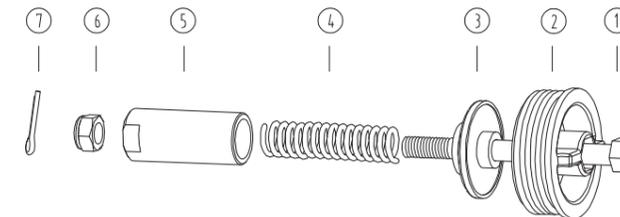
Operating Temp: $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$

Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.

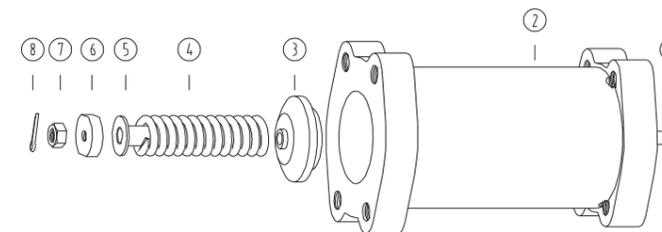


LV series check valve



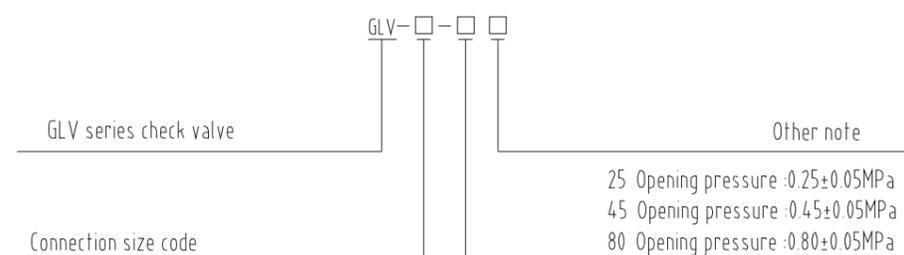
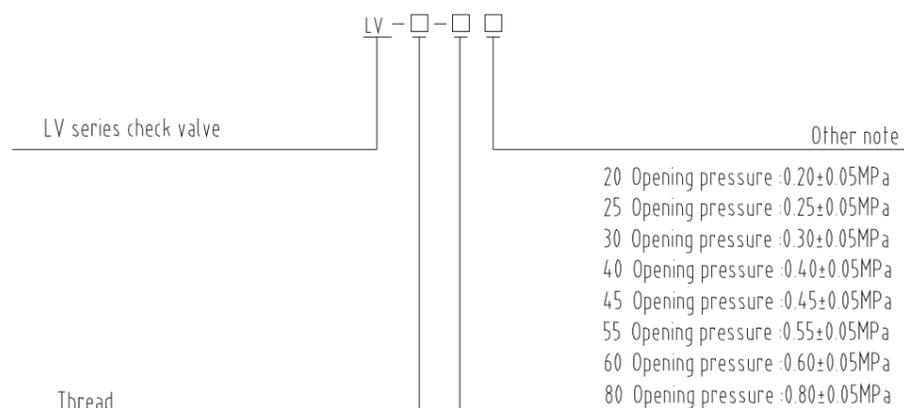
No.	Name	Note
1	Bolt	
2	Valve body	
3	Cover	
4	Spring	
5	Spool	
6	Locknut	

GLV series check valve

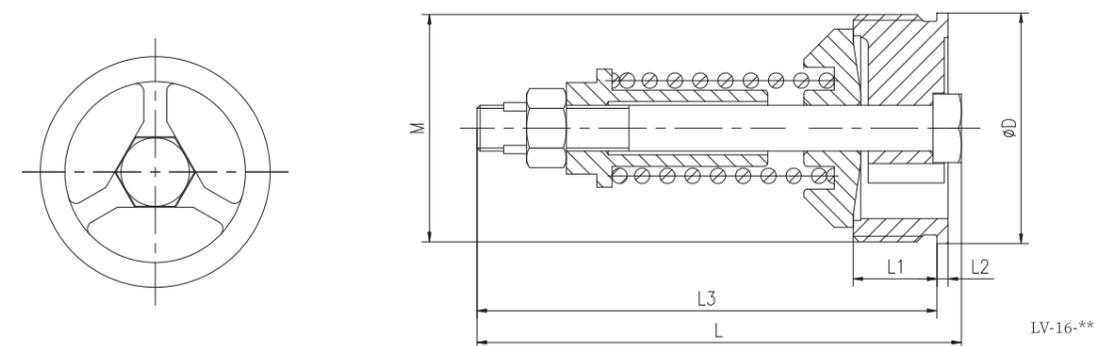


No.	Name	Note
1	Bolt	
2	Valve body	
3	Cover	
4	Spring	
5	Supporting tube	
6	Platen	
7	Locknut	

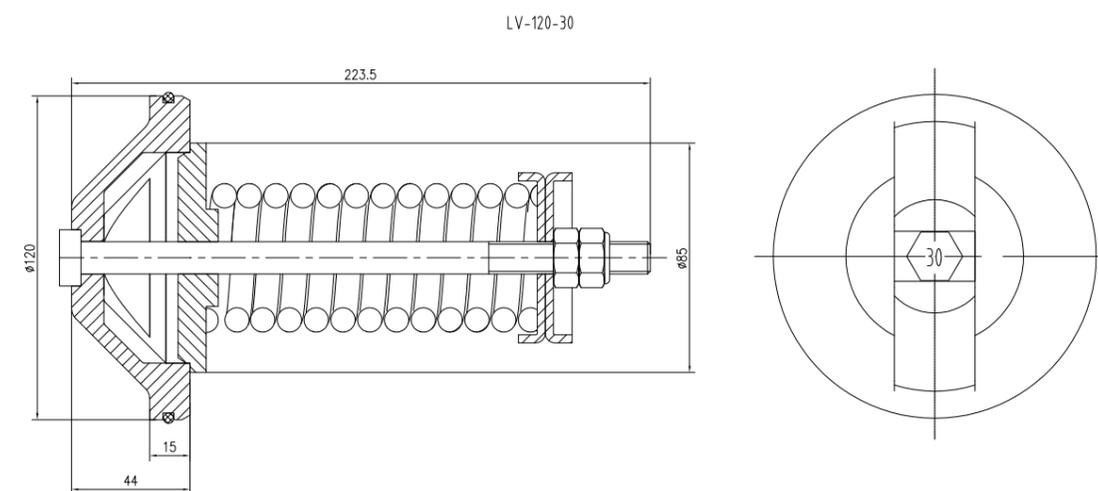
MODEL CODE



LV series check valve

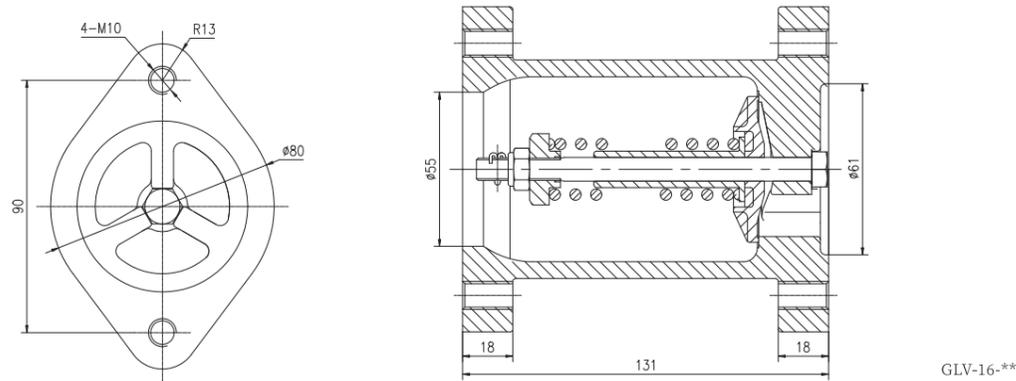


Model	M	Size(mm)					(Mpa)Max. Pressure	Flow Rate (L/min)	
		D	L	L1	L2	L3			
LV-09-**	M36×1.5	38	84	11	4	75	2.5	120	
			100			91			
LV-10-**	G1 1/4	42	125.5	15	2.5	116			200
LV-12-**	G1 1/2	50	125.5	15	2.5	116			400
LV-16-**	G2	60.5	127.5	22	3	121			600

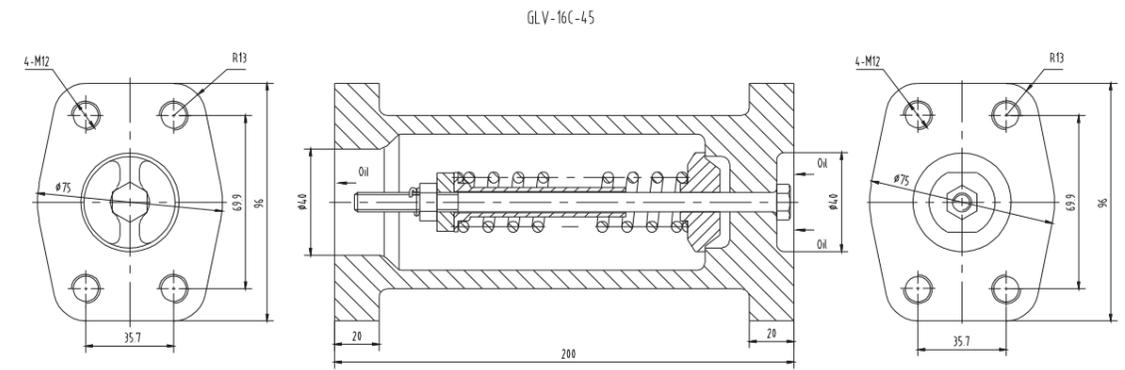


Model	Opening Pressure	(Mpa) Max. Pressure	(L/min) Flow Rate
LV-120-30	0.30±0.05	2	1000

GLV series check valve

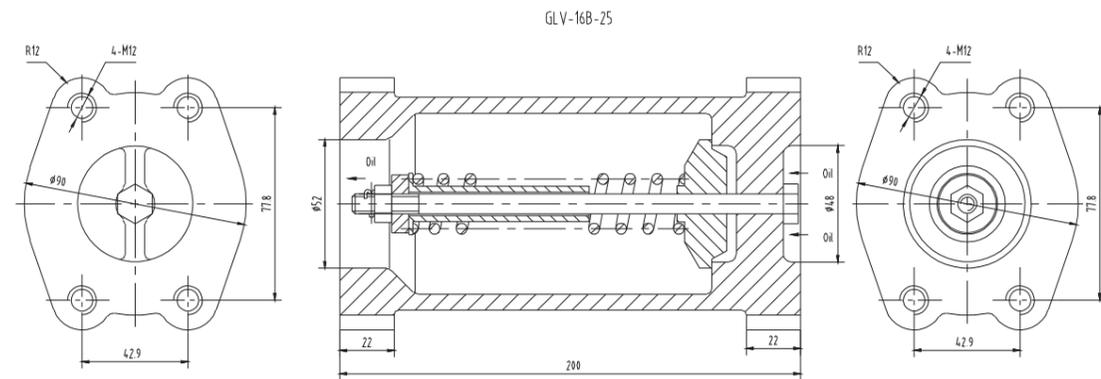


Model	Opening Pressure	(Mpa) Max. Pressure	(L/min) Flow Rate
GLV-16-**	0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60	2.5	700

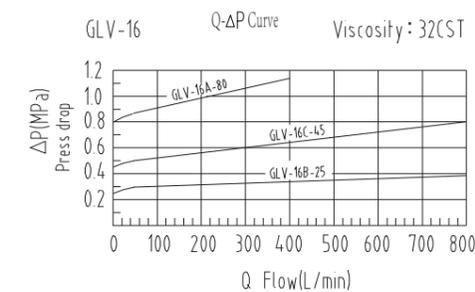
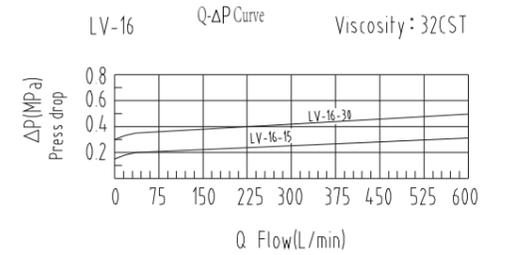
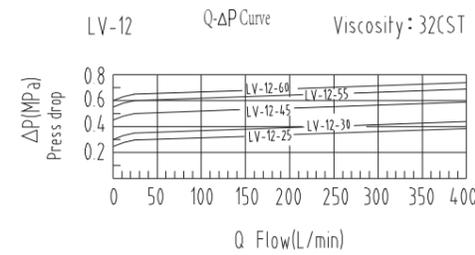
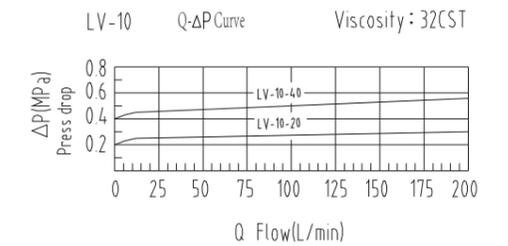
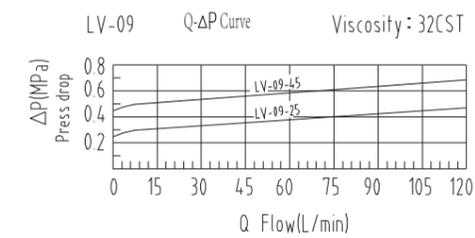


Model	Opening Pressure	(Mpa) Max. Pressure	(L/min) Flow Rate
GLV-16C-45	0.45±0.10	2.0	800

CHECK VALE FLOW PRESSURE DROP



Model	Opening Pressure	(Mpa) Max. Pressure	(L/min) Flow Rate
GLV-16B-25	0.25±0.10	2.0	700



CONTENT

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TUBE CLAMPS

General Introduction

1、 Range



Light series tube clamp can be used in 6 kinds of size series of ordinary mechanical pressure tube, the outer diameter of tube is $\Phi 6\sim 57\text{mm}$.

Twin series tube clamp can be used in 5 kinds of size series of ordinary mechanical pressure tube, the outer diameter of tube is $\Phi 6\sim 42\text{mm}$.

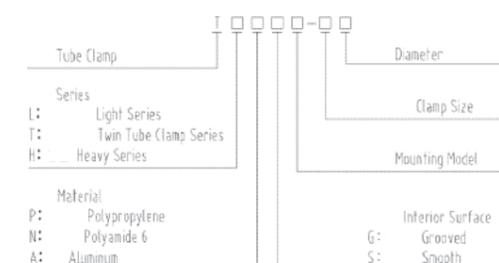
Heavy series tube clamp can be used in 10 kinds of size series of ordinary mechanical pressure tube, the outer diameter of tube is $\Phi 8\sim 406\text{mm}$.

2、 Material Feature

Feature	Polypropylene	Nylon	Aluminum
Density	0.906g/cm ³	1.12~1.15g/cm ³	2.65g/cm ³
Bending strength	36N/mm ²	130~200N/mm ²	70N/mm ²
Impact ductility	High ductility	High ductility	
compressive strength	90N/mm ²	120N/mm ²	HB500~600N/mm ²
Modulus of elasticity	1500N/mm ²	3000N/mm ²	70N/mm ²
ensile strength	25~35N/mm ²	80~90N/mm ²	180N/mm ²
Temperature resistance	-30°C~+90°C	-40~+120°C	300°C
Colour	Green	Black	

Other materials can be selected according to the requirements

3、 Order Code



1、Light series

(The product in accordance with German standard DIN3015 Teil1)

Order code				2 clamp halves, weld plate-short, slot head screws and washers	weld plate-short, socket head screws and washers	2 clamp halves, weld plate-short, cover plate and head bolts	2 clamp halves, weld / screw plate, slot head screws and washers	2 clamp halves, weld / screw plate, socket head screws and washers
TLPG— Light series, polypropylene, inside grooved TLPS— Light series, polypropylene, inside smooth TLNG— Light series, polyamide 6, inside grooved TLNS— Light series, polyamide 6, inside smooth (As required, exchange standard abbreviation "TLPG" in column of "order code")								
Clamp size	mm O.D.	inch I.D.	inch O.D.	Order code	Order code	Order code	Order code	Order code
0	6	G1/8	1/4	TLPG1-006	TLPG2-006	TLPG3-006	TLPG4-006	TLPG5-006
	6.4			TLPG1-006.4	TLPG2-006.4	TLPG3-006.4	TLPG4-006.4	TLPG5-006.4
	8			TLPG1-008	TLPG2-008	TLPG3-008	TLPG4-008	TLPG5-008
	9.5			TLPG1-009.5	TLPG2-009.5	TLPG3-009.5	TLPG4-009.5	TLPG5-009.5
	10			TLPG1-010	TLPG2-010	TLPG3-010	TLPG4-010	TLPG5-010
	12			TLPG1-012	TLPG2-012	TLPG3-012	TLPG4-012	TLPG5-012
1	6	G1/8	1/4	TLPG1-106	TLPG2-106	TLPG3-106	TLPG4-106	TLPG5-106
	6.4			TLPG1-106.4	TLPG2-106.4	TLPG3-106.4	TLPG4-106.4	TLPG5-106.4
	8			TLPG1-108	TLPG2-108	TLPG3-108	TLPG4-108	TLPG5-108
	9.5			TLPG1-109.5	TLPG2-109.5	TLPG3-109.5	TLPG4-109.5	TLPG5-109.5
	10			TLPG1-110	TLPG2-110	TLPG3-110	TLPG4-110	TLPG5-110
	12			TLPG1-112	TLPG2-112	TLPG3-112	TLPG4-112	TLPG5-112
2	12.7	G1/4	1/2	TLPG1-212.7	TLPG2-212.7	TLPG3-212.7	TLPG4-212.7	TLPG5-212.7
	13.5			TLPG1-213.5	TLPG2-213.5	TLPG3-213.5	TLPG4-213.5	TLPG5-213.5
	14			TLPG1-214	TLPG2-214	TLPG3-214	TLPG4-214	TLPG5-214
	15			TLPG1-215	TLPG2-215	TLPG3-215	TLPG4-215	TLPG5-215
	16	G3/8	5/8	TLPG1-216	TLPG2-216	TLPG3-216	TLPG4-216	TLPG5-216
	17.2			TLPG1-217.2	TLPG2-217.2	TLPG3-217.2	TLPG4-217.2	TLPG5-217.2
	18			TLPG1-218	TLPG2-218	TLPG3-218	TLPG4-218	TLPG5-218
3	19	G1/2	3/4	TLPG1-319	TLPG2-319	TLPG3-319	TLPG4-319	TLPG5-319
	20			TLPG1-320	TLPG2-320	TLPG3-320	TLPG4-320	TLPG5-320
	21.3			TLPG1-321.3	TLPG2-321.3	TLPG3-321.3	TLPG4-321.3	TLPG5-321.3
	22		1	TLPG1-322	TLPG2-322	TLPG3-322	TLPG4-322	TLPG5-322
	23			TLPG1-323	TLPG2-323	TLPG3-323	TLPG4-323	TLPG5-323
	25			TLPG1-325	TLPG2-325	TLPG3-325	TLPG4-325	TLPG5-325
4	26.9	G3/4	1	TLPG1-426.9	TLPG2-426.9	TLPG3-426.9	TLPG4-426.9	TLPG5-426.9
	28			TLPG1-428	TLPG2-428	TLPG3-428	TLPG4-428	TLPG5-428
	30			TLPG1-430	TLPG2-430	TLPG3-430	TLPG4-430	TLPG5-430
5	32	G1	1 1/4	TLPG1-532	TLPG2-532	TLPG3-532	TLPG4-532	TLPG5-532
	33.7			TLPG1-533.7	TLPG2-533.7	TLPG3-533.7	TLPG4-533.7	TLPG5-533.7
	35			TLPG1-535	TLPG2-535	TLPG3-535	TLPG4-535	TLPG5-535
	38	G1 1/4	1 1/2	TLPG1-538	TLPG2-538	TLPG3-538	TLPG4-538	TLPG5-538
	40			TLPG1-540	TLPG2-540	TLPG3-540	TLPG4-540	TLPG5-540
	42			TLPG1-542	TLPG2-542	TLPG3-542	TLPG4-542	TLPG5-542
6	44.5	G1 1/2	2	TLPG1-644.5	TLPG2-644.5	TLPG3-644.5	TLPG4-644.5	TLPG5-644.5
	45			TLPG1-645	TLPG2-645	TLPG3-645	TLPG4-645	TLPG5-645
	48			TLPG1-648	TLPG2-648	TLPG3-648	TLPG4-648	TLPG5-648
	50			TLPG1-650	TLPG2-650	TLPG3-650	TLPG4-650	TLPG5-650
	50.8		2 1/4	TLPG1-650.8	TLPG2-650.8	TLPG3-650.8	TLPG4-650.8	TLPG5-650.8
	52			TLPG1-652	TLPG2-652	TLPG3-652	TLPG4-652	TLPG5-652
	55			TLPG1-655	TLPG2-655	TLPG3-655	TLPG4-655	TLPG5-655
	57			TLPG1-657	TLPG2-657	TLPG3-657	TLPG4-657	TLPG5-657

If different combinations are required, they could be ordered as separate components.

(The product in accordance with German standard DIN3015 Teil1)

Order code				2 clamp halves, weld / screw plate, cover plate and hex. head bolts	2 clamp halves, rail nuts, slot head screws and washers	2 clamp halves, rail nuts, socket headscrews and washers	2 clamp halves, rail nuts, cover plate and hex head bolts
TLPG— Light series, polypropylene inside grooved TLPS— Light series, polypropylene inside smooth TLNG— Light series, polyamide 6, inside grooved TLNS— Light series, polyamide 6, inside smooth (As required, exchange standard abbreviation "TLPG" in column of "order code")							
Clamp size	mm O.D.	inch I.D.	Inch O.D.	Order code	Order code	Order code	Order code
0	6	G1/8	1/4	TLPG6-006	TLPG9-006	TLPG10-006	TLPG12-006
	6.4			TLPG6-006.4	TLPG9-006.4	TLPG10-006.4	TLPG12-006.4
	8			TLPG6-008	TLPG9-008	TLPG10-008	TLPG12-008
	9.5			TLPG6-009.5	TLPG9-009.5	TLPG10-009.5	TLPG12-009.5
	10			TLPG6-010	TLPG9-010	TLPG10-010	TLPG12-010
	12			TLPG6-012	TLPG9-012	TLPG10-012	TLPG12-012
1	6	G1/8	1/4	TLPG6-106	TLPG9-106	TLPG10-106	TLPG12-106
	6.4			TLPG6-106.4	TLPG9-106.4	TLPG10-106.4	TLPG12-106.4
	8			TLPG6-108	TLPG9-108	TLPG10-108	TLPG12-108
	9.5			TLPG6-109.5	TLPG9-109.5	TLPG10-109.5	TLPG12-109.5
	10			TLPG6-110	TLPG9-110	TLPG10-110	TLPG12-110
	12			TLPG6-112	TLPG9-112	TLPG10-112	TLPG12-112
2	12.7	G1/4	1/2	TLPG6-212.7	TLPG9-212.7	TLPG10-212.7	TLPG12-212.7
	13.5			TLPG6-213.5	TLPG9-213.5	TLPG10-213.5	TLPG12-213.5
	14			TLPG6-214	TLPG9-214	TLPG10-214	TLPG12-214
	15			TLPG6-215	TLPG9-215	TLPG10-215	TLPG12-215
	16	G3/8	5/8	TLPG6-216	TLPG9-216	TLPG10-216	TLPG12-216
	17.2			TLPG6-217.2	TLPG9-217.2	TLPG10-217.2	TLPG12-217.2
	18			TLPG6-218	TLPG9-218	TLPG10-218	TLPG12-218
3	19	G1/2	3/4	TLPG6-319	TLPG9-319	TLPG10-319	TLPG12-319
	20			TLPG6-320	TLPG9-320	TLPG10-320	TLPG12-320
	21.3			TLPG6-321.3	TLPG9-321.3	TLPG10-321.3	TLPG12-321.3
	22		1	TLPG6-322	TLPG9-322	TLPG10-322	TLPG12-322
	23			TLPG6-323	TLPG9-323	TLPG10-323	TLPG12-323
	25			TLPG6-325	TLPG9-325	TLPG10-325	TLPG12-325
4	26.9	G3/4	1	TLPG6-426.9	TLPG9-426.9	TLPG10-426.9	TLPG12-426.9
	28			TLPG6-428	TLPG9-428	TLPG10-428	TLPG12-428
	30			TLPG6-430	TLPG9-430	TLPG10-430	TLPG12-430
5	32	G1	1 1/4	TLPG6-532	TLPG9-532	TLPG10-532	TLPG12-532
	33.7			TLPG6-533.7	TLPG9-533.7	TLPG10-533.7	TLPG12-533.7
	35			TLPG6-535	TLPG9-535	TLPG10-535	TLPG12-535
	38	G1 1/4	1 1/2	TLPG6-538	TLPG9-538	TLPG10-538	TLPG12-538
	40			TLPG6-540	TLPG9-540	TLPG10-540	TLPG12-540
	42			TLPG6-542	TLPG9-542	TLPG10-542	TLPG12-542
6	44.5	G1 1/2	2	TLPG6-644.5	TLPG9-644.5	TLPG10-644.5	TLPG12-644.5
	45			TLPG6-645	TLPG9-645	TLPG10-645	TLPG12-645
	48			TLPG6-648	TLPG9-648	TLPG10-648	TLPG12-648
	50			TLPG6-650	TLPG9-650	TLPG10-650	TLPG12-650
	50.8		2 1/4	TLPG6-650.8	TLPG9-650.8	TLPG10-650.8	TLPG12-650.8
	52			TLPG6-652	TLPG9-652	TLPG10-652	TLPG12-652
	55			TLPG6-655	TLPG9-655	TLPG10-655	TLPG12-655
	57			TLPG6-657	TLPG9-657	TLPG10-657	TLPG12-657

If different combinations are required, they could be ordered as components.

(The product in accordance with German standard DIN3015 Teil1)

Order code				2 clamp halves, slot head screws and washers	2 clamp halves, socket head screws and washers	2 clamp halves, cover plate and hex head bolts	2 clamp halves, stacking bolts and locking plate			
TLPG— Light series, polypropylene, inside grooved TLPS— Light series, polypropylene, inside smooth TLNG— Light series, polyamide 6, inside grooved TLNS— Light series, polyamide 6, inside smooth (As required, exchange standard abbreviation "TLPG" in column of "order code")										
Clamp size	mm O.D.	Inch I.D.	Inch O.D.	Order code	Order code	Order code	Order code			
0	6	G1/8	1/4	TLPG13-006	TLPG14-006	TLPG16-006	TLPG18-006			
	6.4			TLPG13-006.4	TLPG14-006.4	TLPG16-006.4	TLPG18-006.4			
	8			TLPG13-008	TLPG14-008	TLPG16-008	TLPG18-008			
	8.5			TLPG13-009.5	TLPG14-009.5	TLPG16-009.5	TLPG18-009.5			
	10			TLPG13-010	TLPG14-010	TLPG16-010	TLPG18-010			
	12			TLPG13-012	TLPG14-012	TLPG16-012	TLPG18-012			
1	6	G1/8	1/4	TLPG13-106	TLPG14-106	TLPG16-106	TLPG18-106			
	6.4			TLPG13-106.4	TLPG14-106.4	TLPG16-106.4	TLPG18-106.4			
	8			TLPG13-108	TLPG14-108	TLPG16-108	TLPG18-108			
	9.5			TLPG13-109.5	TLPG14-109.5	TLPG16-109.5	TLPG18-109.5			
	10			TLPG13-110	TLPG14-110	TLPG16-110	TLPG18-110			
	12			TLPG13-112	TLPG14-112	TLPG16-112	TLPG18-112			
2	12.7	G1/4	1/2	TLPG13-212.7	TLPG14-212.7	TLPG16-212.7	TLPG18-212.7			
	13.5			TLPG13-213.5	TLPG14-213.5	TLPG16-213.5	TLPG18-213.5			
	14			TLPG13-214	TLPG14-214	TLPG16-214	TLPG18-214			
	15			TLPG13-215	TLPG14-215	TLPG16-215	TLPG18-215			
	16			TLPG13-216	TLPG14-216	TLPG16-216	TLPG18-216			
	17.2			TLPG13-217.2	TLPG14-217.2	TLPG16-217.2	TLPG18-217.2			
	18	TLPG13-218	TLPG14-218	TLPG16-218	TLPG18-218					
	19	G3/8	5/8	TLPG13-319	TLPG14-319	TLPG16-319	TLPG18-319			
	20			TLPG13-320	TLPG14-320	TLPG16-320	TLPG18-320			
	3			21.3	G1/2	3/4	TLPG13-321.3	TLPG14-321.3	TLPG16-321.3	TLPG18-321.3
				22			TLPG13-322	TLPG14-322	TLPG16-322	TLPG18-322
				23			TLPG13-323	TLPG14-323	TLPG16-323	TLPG18-323
25				TLPG13-325			TLPG14-325	TLPG16-325	TLPG18-325	
4	26.9	G3/4	1	TLPG13-426.9	TLPG14-426.9	TLPG16-426.9	TLPG18-426.9			
	28			TLPG13-428	TLPG14-428	TLPG16-428	TLPG18-428			
	30			TLPG13-430	TLPG14-430	TLPG16-430	TLPG18-430			
5	32	G1	1 1/4	TLPG13-532	TLPG14-532	TLPG16-532	TLPG18-532			
	33.7			TLPG13-533.7	TLPG14-533.7	TLPG16-533.7	TLPG18-533.7			
	35			TLPG13-535	TLPG14-535	TLPG16-535	TLPG18-535			
	38	G1 1/4	1 1/2	TLPG13-538	TLPG14-538	TLPG16-538	TLPG18-538			
	40			TLPG13-540	TLPG14-540	TLPG16-540	TLPG18-540			
	42			TLPG13-542	TLPG14-542	TLPG16-542	TLPG18-542			
6	44.5	G1 1/2	2	TLPG13-644.5	TLPG14-644.5	TLPG16-644.5	TLPG18-644.5			
	45			TLPG13-645	TLPG14-645	TLPG16-645	TLPG18-645			
	48			TLPG13-648	TLPG14-648	TLPG16-648	TLPG18-648			
	50			TLPG13-650	TLPG14-650	TLPG16-650	TLPG18-650			
	50.8			TLPG13-650.8	TLPG14-650.8	TLPG16-650.8	TLPG18-650.8			
	52			TLPG13-652	TLPG14-652	TLPG16-652	TLPG18-652			
	55			TLPG13-655	TLPG14-655	TLPG16-655	TLPG18-655			
	57			TLPG13-657	TLPG14-657	TLPG16-657	TLPG18-657			

If different combinations are required, they would be ordered as components.

(The product in accordance with German standard DIN3015 Teil1)

Order code				2 clamp halves TLPG				Welding plate short			Weld / screw plate							
TLPG— Light series, polypropylene inside grooved TLPS— Light series, polypropylene inside smooth TLNG— Light series, polyamide 6, inside grooved TLNS— Light series, polyamide 6, inside smooth (As required, exchange standard abbreviation "TLPG" in column of "order code")																		
Clamp size	mmaO.D.	inch I.D.	inch O.D.	Order code	Size				Order code	Size			Order code	Size				
					b	c	d	e		d	e	delta		d	e	f	n	delta
0	6	G1/8	1/4	TLPG-006	28	27	-	13.5	TL - A0	-	30	3	TL - B0	-	58	44	6.5	3
	6.4			TLPG-006.4														
	8			TLPG-008														
	8.5			TLPG-009.5														
	10			TLPG-010														
	12			TLPG-012														
1	6	G1/8	1/4	TLPG-106	34	27	20	13.5	TL - A1	20	36	3	TL - B1	20	64	50	6.5	3
	6.4			TLPG-106.4														
	8			TLPG-108														
	9.5			TLPG-109.5														
	10			TLPG-110														
	12			TLPG-112														
2	12.7	G1/4	1/2	TLPG-212.7	40	33	26	16.5	TL - A2	26	42	3	TL - B2	26	70	56	6.5	3
	13.5			TLPG-213.5														
	14			TLPG-214														
	15			TLPG-215														
	16			TLPG-216														
	17.2			TLPG-217.2														
18	TLPG-218																	
3	19	G1/2	3/4	TLPG-319	48	35	33	17.5	TL - A3	33	50	3	TL - B3	33	78	64	6.5	3
	20			TLPG-320														
	21.3			TLPG-321.3														
	22			TLPG-322														
	23			TLPG-323														
4	26.9	G3/4	1	TLPG-426.9	57	42	40	21	TL - A4	40	59	3	TL - B4	40	87	73	6.5	3
	28			TLPG-428														
	30			TLPG-430														
5	32	G1	1 1/4	TLPG-532	70	58	52	29	TL - A5	52	72	3	TL - B5	52	100	86	6.5	3
	33.7			TLPG-533.7														
	35			TLPG-535														
	38	G1 1/4	1 1/2	TLPG-538														
	40			TLPG-540														
	42			TLPG-542														
6	44.5	G1 1/2	2	TLPG-644.5	86	66	66	33	TL - A6	66	88	3	TL - B6	66	116	100	6.5	3
	45			TLPG-645														
	48			TLPG-648														
	50			TLPG-650														
	50.8			TLPG-650.8														
	52			TLPG-652														
	55			TLPG-655														
	57			TLPG-657														

(The product in accordance with German standard DIN3015 Teil1)

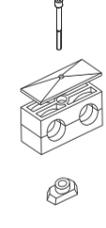
Clamp size	Twin welding plate		Multiple weld plate				Mounting rail		Rail nut									
	Order code	Size				Order code	Size		Order code	Size								
		d	a	e	δ		d	a		e	δ	h	a	b	c			
0	TL-C0	-	30	61	3	TL-D0 (10-unit)	-	30	298	3								
1	TL-C1	20	35	69	3	TL-D1 (10-unit)	20	35	349	3								
2	TL-C2	26	43	86	3	TL-D2 (10-unit)	26	43	427	3	TL-E1	11						
3	TL-C3	33	52	104	3	TL-D3 (10-unit)	33	52	516	3	TL-E2	14	TL-F	25.4	10.4	12		
4	TL-C4	40	60	117	3	TL-D4 (5-unit)	40	60	297	3	TL-E3	30						
5	TL-C5	52	75	145	3	TL-D5 (5-unit)	52	75	370	3								
6	TL-C6	66	90	176	3	TL-D6 (5-unit)	66	90	446	3								

(The product in accordance with German standard DIN3015 Teil3)

Clamp size	Cover plate			Slot head screw (GB65-85) d × I	Socket head screw (GB70-85) d × I	Hexagon head bolt (GB5782-86) d × I	Stacking bolt		Locking plate		
	Order code	Size					Order code	Size			
		b	d	δ	a	b		Order code			
0	TL-G0	-	-	3	M6 × 20	M6 × 20	M6 × 30	TL-H0	20	34	
1	TL-G1	34	20	3	M6 × 20	M6 × 20	M6 × 30	TL-H1	20	34	
2	TL-G2	40	26	3	M6 × 25	M6 × 25	M6 × 35	TL-H2	25	39	
3	TL-G3	48	33	3	M6 × 30	M6 × 30	M6 × 40	TL-H3	30	44	TL-L
4	TL-G4	57	40	3	M6 × 35	M6 × 35	M6 × 45	TL-H4	35	49	
5	TL-G5	70	52	3	M6 × 50	M6 × 50	M6 × 60	TL-H5	50	64	
6	TL-G6	86	66	3	M6 × 60	M6 × 60	M6 × 70	TL-H6	60	74	

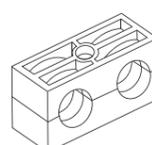
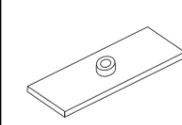
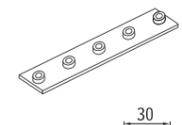
2. Twin Tube Clamp

(The product in accordance with German standard DIN3015 Teil3)

Order code				2 clamp halves, weld plate, hex. head bolt	2 clamp halves, weld plate, cover plate, socket head screw	2 clamp halves, railnut, cover plate, hex. Head bolt	2 clamp halves, railnut, cover plate, socket head bolt	2 clamp halves, locking plate, stacking bolt	2 clamp halves, cover plate, and hex. head bolts
TTPG—Twin tube clamp, polypropylene inside grooved									
TTPS—Twin tube clamp, polypropylene, inside smooth									
TTNG—Twin tube clamp, polyamide 6, inside grooved									
TTNS—Twin tube clamp, polyamide 6, inside smooth									
(As required, exchange standard abbreviation "TTPG" in column for "order code")									
clamp size	mm.O.D.	inch I.D.	inch O.D.	Order code	Order code	Order code	Order code	Order code	Order code
1	6	G1/8	1/4	TTPG1-106	TTPG3-106	TTPG4-106	TTPG5-106	TTPG8-106	TTPG16-106
	6.4			TTPG1-106.4	TTPG3-106.4	TTPG4-106.4	TTPG5-106.4	TTPG8-106.4	TTPG16-106.4
	8			TTPG1-108	TTPG3-108	TTPG4-108	TTPG5-108	TTPG8-108	TTPG16-108
	9.5			TTPG1-109.5	TTPG3-109.5	TTPG4-109.5	TTPG5-109.5	TTPG8-109.5	TTPG16-109.5
	10			TTPG1-110	TTPG3-110	TTPG4-110	TTPG5-110	TTPG8-110	TTPG16-110
	12			TTPG1-112	TTPG3-112	TTPG4-112	TTPG5-112	TTPG8-112	TTPG16-112
	12			TTPG1-112	TTPG3-112	TTPG4-112	TTPG5-112	TTPG8-112	TTPG16-112
2	12.7	G1/4	1/2	TTPG1-212.7	TTPG3-212.7	TTPG4-212.7	TTPG5-212.7	TTPG8-212.7	TTPG16-212.7
	13.5			TTPG1-213.5	TTPG3-213.5	TTPG4-213.5	TTPG5-213.5	TTPG8-213.5	TTPG16-213.5
	14			TTPG1-214	TTPG3-214	TTPG4-214	TTPG5-214	TTPG8-214	TTPG16-214
	15			TTPG1-215	TTPG3-215	TTPG4-215	TTPG5-215	TTPG8-215	TTPG16-215
	16			TTPG1-216	TTPG3-216	TTPG4-216	TTPG5-216	TTPG8-216	TTPG16-216
	17.2	G3/8	5/8	TTPG1-217.2	TTPG3-217.2	TTPG4-217.2	TTPG5-217.2	TTPG8-217.2	TTPG16-217.2
	18			TTPG1-218	TTPG3-218	TTPG4-218	TTPG5-218	TTPG8-218	TTPG16-218
	18			TTPG1-218	TTPG3-218	TTPG4-218	TTPG5-218	TTPG8-218	TTPG16-218
	18			TTPG1-218	TTPG3-218	TTPG4-218	TTPG5-218	TTPG8-218	TTPG16-218
	18			TTPG1-218	TTPG3-218	TTPG4-218	TTPG5-218	TTPG8-218	TTPG16-218
3	19	G1/2	3/4	TTPG1-319	TTPG3-319	TTPG4-319	TTPG5-319	TTPG8-319	TTPG16-319
	20			TTPG1-320	TTPG3-320	TTPG4-320	TTPG5-320	TTPG8-320	TTPG16-320
	21.3			TTPG1-321.3	TTPG3-321.3	TTPG4-321.3	TTPG5-321.3	TTPG8-321.3	TTPG16-321.3
	22			TTPG1-322	TTPG3-322	TTPG4-322	TTPG5-322	TTPG8-322	TTPG16-322
	23			TTPG1-323	TTPG3-323	TTPG4-323	TTPG5-323	TTPG8-323	TTPG16-323
	25	1	1	TTPG1-325	TTPG3-325	TTPG4-325	TTPG5-325	TTPG8-325	TTPG16-325
	25.4			TTPG1-325.4	TTPG3-325.4	TTPG4-325.4	TTPG5-325.4	TTPG8-325.4	TTPG16-325.4
	25.4			TTPG1-325.4	TTPG3-325.4	TTPG4-325.4	TTPG5-325.4	TTPG8-325.4	TTPG16-325.4
	25.4			TTPG1-325.4	TTPG3-325.4	TTPG4-325.4	TTPG5-325.4	TTPG8-325.4	TTPG16-325.4
	25.4			TTPG1-325.4	TTPG3-325.4	TTPG4-325.4	TTPG5-325.4	TTPG8-325.4	TTPG16-325.4
4	26.9	G3/4		TTPG1-426.9	TTPG3-426.9	TTPG4-426.9	TTPG5-426.9	TTPG8-426.9	TTPG16-426.9
	28			TTPG1-428	TTPG3-428	TTPG4-428	TTPG5-428	TTPG8-428	TTPG16-428
	30			TTPG1-430	TTPG3-430	TTPG4-430	TTPG5-430	TTPG8-430	TTPG16-430
5	32	G1	1 1/4	TTPG1-532	TTPG3-532	TTPG4-532	TTPG5-532	TTPG8-532	TTPG16-532
	33.7			TTPG1-533.7	TTPG3-533.7	TTPG4-533.7	TTPG5-533.7	TTPG8-533.7	TTPG16-533.7
	35			TTPG1-535	TTPG3-535	TTPG4-535	TTPG5-535	TTPG8-535	TTPG16-535
	38	G1 1/4	1 1/2	TTPG1-538	TTPG3-538	TTPG4-538	TTPG5-538	TTPG8-538	TTPG16-538
	40			TTPG1-540	TTPG3-540	TTPG4-540	TTPG5-540	TTPG8-540	TTPG16-540
	42			TTPG1-542	TTPG3-542	TTPG4-542	TTPG5-542	TTPG8-542	TTPG16-542

It can be ordered as separate components at user's requirement.

(The product in accordance with German standard DIN3015 Teil3)

Order code				2 clamp halves TTPG		Weld plate			Multiple weld plate													
TTPG—Twin tube clamp, polypropylene inside grooved																						
TTPS—Twin tube clamp, polypropylene, inside smooth							Order code	size		Order code	size		Order code	size								
TTNG—Twin tube clamp, polyamide 6, inside grooved				mm.O.D.	inch I.D.	inch O.D.	b	c	d	e	g	m	δ	d	e	δ						
TTNS—Twin tube clamp, polyamide 6, inside smooth				a1.a2			a1	a2	c		δ											
(As required, exchange standard abbreviation "TTPG" in column of "order code")																						
1	6	G1/8	1/4	TTPG-106	TTPG-106.4	TTPG-108	TTPG-109.5	TTPG-110	TTPG-112	36	27	20	13.5	TT-A1	37	M6	3	TT-D1	40	196	3	
	6.4			TTPG-106.4	TTPG-108	TTPG-109.5	TTPG-110	TTPG-112														
	8			TTPG-108	TTPG-109.5	TTPG-110	TTPG-112															
	9.5			TTPG-109.5	TTPG-110	TTPG-112																
	10			TTPG-110	TTPG-112																	
	12			TTPG-112																		
	12			TTPG-112																		
2	12.7	G1/4	1/2	TTPG-212.7	TTPG-213.5	TTPG-214	TTPG-215	TTPG-216	TTPG-217.2	53	26	29	13	TT-A2	55	M8	5	TT-D2	58	288	5	
	13.5			TTPG-213.5	TTPG-214	TTPG-215	TTPG-216	TTPG-217.2														
	14			TTPG-214	TTPG-215	TTPG-216	TTPG-217.2															
	15			TTPG-215	TTPG-216	TTPG-217.2																
	16			TTPG-216	TTPG-217.2																	
	17.2	TTPG-217.2																				
	18	TTPG-218																				
	3	19	G1/2	3/4	TTPG-319	TTPG-320	TTPG-321.3	TTPG-322	TTPG-323	TTPG-325	67	37	36	18.5	TT-A3	70	M8	5	TT-D3	72	358	5
		20			TTPG-320	TTPG-321.3	TTPG-322	TTPG-323	TTPG-325													
		21.3			TTPG-321.3	TTPG-322	TTPG-323	TTPG-325														
22		TTPG-322			TTPG-323	TTPG-325																
23		TTPG-323			TTPG-325																	
25		TTPG-325																				
25.4		TTPG-325.4																				
4	26.9	G3/4		TTPG-426.9	TTPG-428	TTPG-430				82	42	45	21	TT-A4	85	M8	5	TT-D4	90	446	5	
	28			TTPG-428	TTPG-430																	
	30			TTPG-430																		
5	32	G1	1 1/4	TTPG-532	TTPG-533.7	TTPG-535				106	54	56	27	TT-A5	110	M8	5	TT-D5	112	558	5	
	33.7			TTPG-533.7	TTPG-535																	
	35			TTPG-535																		
	38	G1 1/4	1 1/2	TTPG-538	TTPG-540	TTPG-542																
	40			TTPG-540	TTPG-542																	
	42			TTPG-542																		

(The product in accordance with German standard DIN3015 Teil3)

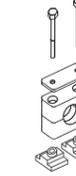
Clamp size	Mounting rail		Rail nut				Cover plate				
	Order code	Size h	Order code	Size				Order code	Size		
				a	b	c	m		b	d	δ
1	TL-E1 TL-E2 TL-E3	11 14 30	TL-F	25.4	10.4	12	M6	TT-G1	34	6.6	3
2			TT-F	25.4	10.4	14	M8	TT-G2	51	8.6	3
3								TT-G3	64	8.6	3
4								TT-G4	78	8.6	3
5			TT-G5	102	8.6	3					

(The product in accordance with German standard DIN3015 Teil3)

Clamp size	Hexagon head bolt (GB5782-86) d×l	Socket head screw (GB70-85) d×l	Stacking bolt				Locking plate		
			Order code	Size				Order code	Size
				a	b	m	sw		sw
1	M6 × 35	M6 × 35	TT-H1	20	34	M6	11	TT-L1	11
2	M8 × 35	M8 × 35	TT-H2	20	33	M8	12	TT-L2	12
3	M8 × 45	M8 × 45	TT-H3	29	44	M8	12		
4	M8 × 50	M8 × 50	TT-H4	34	49	M8	12		
5	M8 × 60	M8 × 60	TT-H5	47	62	M8	12		

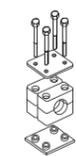
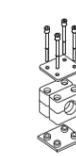
3、Heavy Series

(The product in accordance with German standard DIN3015 Teil2)

Order code				2 clamp halves, weld plate, cover plate, hex. head bolts	2 clamp halves, weld plate, cover plate, socket head bolts	2 clamp halves, rail nut, cover plate, hex. head bolts	2 clamp halves, rail nut, cover plate, socket head screws	2 clamp halves, locking plate, stacking bolts	
THPG— Heavy series, polypropylene inside grooved									
THPS— Heavy series, polypropylene inside smooth									
THING— Heavy series, polyamide 6, inside grooved									
THNS— Heavy series, polyamide 6, inside smooth									
THAG— Heavy series, Aluminium, inside grooved									
(As required, exchange standard abbreviation "THPG" in column of "order code" Change "P" and "N" into "A", it's A Aluminium clamps)									
Clamp size	MM O.D.	Inch I.D.	Inch O.D.	Order code	Order code	Order code	Order code	Order code	
1	6	G1/8	5/16	THPG1-106	THPG2-106	THPG3-106	THPG4-106	THPG5-106	
	8			THPG1-108	THPG2-108	THPG3-108	THPG4-108	THPG5-108	
	10			THPG1-110	THPG2-110	THPG3-110	THPG4-110	THPG5-110	
	12			THPG1-112	THPG2-112	THPG3-112	THPG4-112	THPG5-112	
	12.7			THPG1-112.7	THPG2-112.7	THPG3-112.7	THPG4-112.7	THPG5-112.7	
	13.5	G1/4	5/8	THPG1-113.5	THPG2-113.5	THPG3-113.5	THPG4-113.5	THPG5-113.5	
	14			THPG1-114	THPG2-114	THPG3-114	THPG4-114	THPG5-114	
	15			THPG1-115	THPG2-115	THPG3-115	THPG4-115	THPG5-115	
	16	G3/8	5/8	THPG1-116	THPG2-116	THPG3-116	THPG4-116	THPG5-116	
	17.2			THPG1-117.2	THPG2-117.2	THPG3-117.2	THPG4-117.2	THPG5-117.2	
18	THPG1-118			THPG2-118	THPG3-118	THPG4-118	THPG5-118		
2	18	G1/2	3/4	THPG1-218	THPG2-218	THPG3-218	THPG4-218	THPG5-218	
	19			THPG1-219	THPG2-219	THPG3-219	THPG4-219	THPG5-219	
	20			THPG1-220	THPG2-220	THPG3-220	THPG4-220	THPG5-220	
	21.3			THPG1-221.3	THPG2-221.3	THPG3-221.3	THPG4-221.3	THPG5-221.3	
	22			THPG1-222	THPG2-222	THPG3-222	THPG4-222	THPG5-222	
	23	G3/4	1	THPG1-223	THPG2-223	THPG3-223	THPG4-223	THPG5-223	
	25			THPG1-225	THPG2-225	THPG3-225	THPG4-225	THPG5-225	
	26.9			THPG1-226.9	THPG2-226.9	THPG3-226.9	THPG4-226.9	THPG5-226.9	
	28	G3/4	1	THPG1-228	THPG2-228	THPG3-228	THPG4-228	THPG5-228	
	30			THPG1-230	THPG2-230	THPG3-230	THPG4-230	THPG5-230	
3	30	G1	1 1/4	THPG1-330	THPG2-330	THPG3-330	THPG4-330	THPG5-330	
	32			THPG1-332	THPG2-332	THPG3-332	THPG4-332	THPG5-332	
	33.7			THPG1-333.7	THPG2-333.7	THPG3-333.7	THPG4-333.7	THPG5-333.7	
	35	G1 1/4	1 1/2	THPG1-335	THPG2-335	THPG3-335	THPG4-335	THPG5-335	
	38			THPG1-338	THPG2-338	THPG3-338	THPG4-338	THPG5-338	
	40			THPG1-340	THPG2-340	THPG3-340	THPG4-340	THPG5-340	
	42			THPG1-342	THPG2-342	THPG3-342	THPG4-342	THPG5-342	
4	38	G1 1/4	1 1/2	THPG1-438	THPG2-438	THPG3-438	THPG4-438	THPG5-438	
	40			THPG1-440	THPG2-440	THPG3-440	THPG4-440	THPG5-440	
	42			THPG1-442	THPG2-442	THPG3-442	THPG4-442	THPG5-442	
	45			THPG1-445	THPG2-445	THPG3-445	THPG4-445	THPG5-445	
	48.3			THPG1-448.3	THPG2-448.3	THPG3-448.3	THPG4-448.3	THPG5-448.3	
	50	G1 1/2	2	THPG1-450	THPG2-450	THPG3-450	THPG4-450	THPG5-450	
	51			THPG1-451	THPG2-451	THPG3-451	THPG4-451	THPG5-451	
	52			THPG1-452	THPG2-452	THPG3-452	THPG4-452	THPG5-452	
	55	G2	2 1/4	THPG1-455	THPG2-455	THPG3-455	THPG4-455	THPG5-455	
	57			THPG1-457	THPG2-457	THPG3-457	THPG4-457	THPG5-457	
60.3	THPG1-460.3			THPG2-460.3	THPG3-460.3	THPG4-460.3	THPG5-460.3		
63	THPG1-463			THPG2-463	THPG3-463	THPG4-463	THPG5-463		
65	G2	2 1/2	THPG1-465	THPG2-465	THPG3-465	THPG4-465	THPG5-465		
70			THPG1-470	THPG2-470	THPG3-470	THPG4-470	THPG5-470		
5	70	G2 1/2	3	THPG1-570	THPG2-570	THPG3-570	THPG4-570	THPG5-570	
	73			THPG1-573	THPG2-573	THPG3-573	THPG4-573	THPG5-573	
	75			THPG1-575	THPG2-575	THPG3-575	THPG4-575	THPG5-575	
	76.1			THPG1-576.1	THPG2-576.1	THPG3-576.1	THPG4-576.1	THPG5-576.1	
	80			THPG1-580	THPG2-580	THPG3-580	THPG4-580	THPG5-580	
	82.5	G3	3 1/4	THPG1-582.5	THPG2-582.5	THPG3-582.5	THPG4-582.5	THPG5-582.5	
	88.9			THPG1-588.9	THPG2-588.9	THPG3-588.9	THPG4-588.9	THPG5-588.9	
	90			THPG1-590	THPG2-590	THPG3-590	THPG4-590	THPG5-590	
	6	90	G3 1/2	4	THPG1-690	THPG2-690	THPG3-690	THPG4-690	THPG5-690
		97			THPG1-697	THPG2-697	THPG3-697	THPG4-697	THPG5-697
100		THPG1-6100			THPG2-6100	THPG3-6100	THPG4-6100	THPG5-6100	
101.6		G4	4 1/4	THPG1-6101.6	THPG2-6101.6	THPG3-6101.6	THPG4-6101.6	THPG5-6101.6	
108				THPG1-6108	THPG2-6108	THPG3-6108	THPG4-6108	THPG5-6108	
114.3				THPG1-6114.3	THPG2-6114.3	THPG3-6114.3	THPG4-6114.3	THPG5-6114.3	
127				THPG1-6127	THPG2-6127	THPG3-6127	THPG4-6127	THPG5-6127	
7	127	G5	5	THPG1-7127	THPG2-7127	THPG3-7127	THPG4-7127	THPG5-7127	
	133			THPG1-7133	THPG2-7133	THPG3-7133	THPG4-7133	THPG5-7133	
	140			THPG1-7140	THPG2-7140	THPG3-7140	THPG4-7140	THPG5-7140	
	150			THPG1-7150	THPG2-7150	THPG3-7150	THPG4-7150	THPG5-7150	
	152.4			THPG1-7152.4	THPG2-7152.4	THPG3-7152.4	THPG4-7152.4	THPG5-7152.4	
	159	G5 1/2	6	THPG1-7159	THPG2-7159	THPG3-7159	THPG4-7159	THPG5-7159	
	165.1			THPG1-7165.1	THPG2-7165.1	THPG3-7165.1	THPG4-7165.1	THPG5-7165.1	
	168.3			THPG1-7168.3	THPG2-7168.3	THPG3-7168.3	THPG4-7168.3	THPG5-7168.3	
	8	168.3	G6	6 5/8	THPG1-8168.3	THPG2-8168.3	THPG3-8168.3	THPG4-8168.3	THPG5-8168.3
		177.8			THPG1-8177.8	THPG2-8177.8	THPG3-8177.8	THPG4-8177.8	THPG5-8177.8
193.7		THPG1-8193.7			THPG2-8193.7	THPG3-8193.7	THPG4-8193.7	THPG5-8193.7	
203		G8	8 5/8	THPG1-8203	THPG2-8203	THPG3-8203	THPG4-8203	THPG5-8203	
219.1				THPG1-8219.1	THPG2-8219.1	THPG3-8219.1	THPG4-8219.1	THPG5-8219.1	
220				THPG1-8220	THPG2-8220	THPG3-8220	THPG4-8220	THPG5-8220	
219.1				THAG1-9219.1	THAG2-9219.1	THAG3-9219.1	THAG4-9219.1	THAG5-9219.1	
9	224.5	G10	8 5/8	THAG1-9224.5	THAG2-9224.5	THAG3-9224.5	THAG4-9224.5	THAG5-9224.5	
	273			THAG1-9273	THAG2-9273	THAG3-9273	THAG4-9273	THAG5-9273	
	323.9	G12	8 5/8	THAG1-9323.9	THAG2-9323.9	THAG3-9323.9	THAG4-9323.9	THAG5-9323.9	
	356			THAG1-10356	THAG2-10356	THAG3-10356	THAG4-10356	THAG5-10356	
10	365	G16	10 5/8	THAG1-10365	THAG2-10365	THAG3-10365	THAG4-10365	THAG5-10365	
	406			THAG1-10406	THAG2-10406	THAG3-10406	THAG4-10406	THAG5-10406	

If different combinations are required, they could be ordered as separate components
 Note: The material used for size 9 and 10 series is aluminium.

(The product in accordance with German standard DIN3015 Teil2)

Order code				2 clamp halves, double weld plate, double cover plate, hex. head bolts.	2 clamp halves, double weld plate, double cover plate, socket head screws	2 clamp halves, weld / screw plate, cover plate and hex. head bolts	2 clamp halves, weld / screw plate, cover plate and socket head screws	2 clamp halves, cover plate and hex head bolts
THPG— Heavy series, polypropylene inside grooved								
THPS— Heavy series, polypropylene inside smooth								
THING— Heavy series, polyamide 6, inside grooved								
THNS— Heavy series, polyamide 6, inside smooth								
THAG— Heavy series, Aluminium, inside grooved								
(As required, exchange standard abbreviation "THPG" in column of "order code" Change "P" and "N" into "A", it's A Aluminium clamps)								
Clamp size	MM O.D.	Inch I.D.	Inch O.D.	Order code				
1	6	G1/8	5/16	THPG6-106	THPG7-106	THPG8-106	THPG9-106	THPG10-106
	8			THPG6-108	THPG7-108	THPG8-108	THPG9-108	THPG10-108
	10			THPG6-110	THPG7-110	THPG8-110	THPG9-110	THPG10-110
	12			THPG6-112	THPG7-112	THPG8-112	THPG9-112	THPG10-112
	12.7			THPG6-112.7	THPG7-112.7	THPG8-112.7	THPG9-112.7	THPG10-112.7
	13.5	G1/4	5/8	THPG6-113.5	THPG7-113.5	THPG8-113.5	THPG9-113.5	THPG10-113.5
	14			THPG6-114	THPG7-114	THPG8-114	THPG9-114	THPG10-114
	15			THPG6-115	THPG7-115	THPG8-115	THPG9-115	THPG10-115
	16	G3/8	5/8	THPG6-116	THPG7-116	THPG8-116	THPG9-116	THPG10-116
	17.2			THPG6-117.2	THPG7-117.2	THPG8-117.2	THPG9-117.2	THPG10-117.2
18	THPG6-118			THPG7-118	THPG8-118	THPG9-118	THPG10-118	
2	18	G1/2	3/4	THPG6-218	THPG7-218	THPG8-218	THPG9-218	THPG10-218
	19			THPG6-219	THPG7-219	THPG8-219	THPG9-219	THPG10-219
	20			THPG6-220	THPG7-220	THPG8-220	THPG9-220	THPG10-220
	21.3			THPG6-221.3	THPG7-221.3	THPG8-221.3	THPG9-221.3	THPG10-221.3
	22			THPG6-222	THPG7-222	THPG8-222	THPG9-222	THPG10-222
	23	G3/4	1	THPG6-223	THPG7-223	THPG8-223	THPG9-223	THPG10-223
	25			THPG6-225	THPG7-225	THPG8-225	THPG9-225	THPG10-225
	26.9			THPG6-226.9	THPG7-226.9	THPG8-226.9	THPG9-226.9	THPG10-226.9
	28	G3/4	1	THPG6-228	THPG7-228	THPG8-228	THPG9-228	THPG10-228
	30			THPG6-230	THPG7-230	THPG8-230	THPG9-230	THPG10-230
3	30	G1	1 1/4	THPG6-330	THPG7-330	THPG8-330	THPG9-330	THPG10-330
	32			THPG6-332	THPG7-332	THPG8-332	THPG9-332	THPG10-332
	33.7			THPG6-333.7	THPG7-333.7	THPG8-333.7	THPG9-333.7	THPG10-333.7
	35	G1 1/4	1 1/2	THPG6-335	THPG7-335	THPG8-335	THPG9-335	THPG10-335
	38			THPG6-338	THPG7-338	THPG8-338	THPG9-338	THPG10-338
	40			THPG6-340	THPG7-340	THPG8-340	THPG9-340	THPG10-340
	42			THPG6-342	THPG7-342	THPG8-342	THPG9-342	THPG10-342
4	38	G1 1/4	1 1/2	THPG6-438	THPG7-438	THPG8-438	THPG9-438	THPG10-438
	40			THPG6-440	THPG7-440	THPG8-440	THPG9-440	THPG10-440
	42			THPG6-442	THPG7-442	THPG8-442	THPG9-442	THPG10-442
	45			THPG6-445	THPG7-445	THPG8-445	THPG9-445	THPG10-445
	48.3			THPG6-448.3	THPG7-448.3	THPG8-448.3	THPG9-448.3	THPG10-448.3
	50	G1 1/2	2	THPG6-450	THPG7-450	THPG8-450	THPG9-450	THPG10-450
	51			THPG6-451	THPG7-451	THPG8-451	THPG9-451	THPG10-451
	52			THPG6-452	THPG7-452	THPG8-452	THPG9-452	THPG10-452
	55	G2	2 1/4	THPG6-455	THPG7-455	THPG8-455	THPG9-455	THPG10-455

(The product in accordance with German standard DIN3015 Teil2)

Order code				2 clamp halves THPG					4 clamp halves THPGD																	
Clamp size	mm O.D.	Inch I.D.	Inch O.D.	Order code	Size					Order code	Size															
					b	c	d	e	f		b	c	d	e	f											
1	6	G1/8	5/16	THPG-106	55	32	33	16	30	THPGD-106	55	32	33	16	60											
	8																									
	10																									
	12																									
	12.7																									
	13.5																									
	14																									
	15																									
	16																									
	17.2																									
18																										
2	18	G1/2	1	THPG-218	70	48	45	24	30	THPGD-218	70	48	45	24	60											
	19																									
	20																									
	21.3																									
	22																									
	23																									
	25																									
	26.9																									
	28																									
	30																									
3	30	G1	1 1/4	THPG-330	85	60	60	30	30	THPGD-330	85	60	60	30	60											
	32																									
	33.7																									
	35																									
	38																									
	40																									
	42																									
	4	38	G1 1/4	1 1/2						THPG-438						115	90	90	45	45	THPGD-438	115	90	90	45	90
		40																								
		42																								
45																										
48.3																										
50																										
51																										
52																										
55																										
57																										
5	60.3	G2	2 1/4	THPG-457	152	120	122	60	60	THPGD-457	152	120	122	60	120											
	63																									
	65																									
	70																									
	6			70						G2 1/2						3	THPG-570	205	170	168	85	80	THPGD-570	205	170	168
		73																								
		75																								
		76.1																								
		80																								
		82.5																								
88.9																										
90																										
7		90	G3 1/2	4	THPG-690	250	200	205	100	90	THPGD-690	250	200	205	100	180										
		97																								
	100																									
	101.6																									
	108																									
	114.3																									
	127																									
	8	127	G5	5 1/4	THPG-7127						320						270	265	135	120	THPGD-7127	320	270	265	135	240
		133																								
		140																								
150																										
152.4																										
159																										
165.1																										
168.3																										
9		168.3	G6	6 1/2	THPG-7159	470	410	395	205	162		THPGD-7159	470	410	395	205					324					
		177.8																								
	193.7																									
	203																									
	219.1																									
	220																									
	10	219.1	G8	8 5/8	THAG-9219.1						630	530					534	265	182	THAGD-9219.1		630	530	534	265	364
		244.5																								
		273																								
		323.9																								
10		356			G10	10	THAG-10356	630	530	534			265	182	THAGD-10356	630				530	534					
		365																								
		406																								

The product in accordance with German standard

(The product in accordance with German standard DIN3015 Teil2)

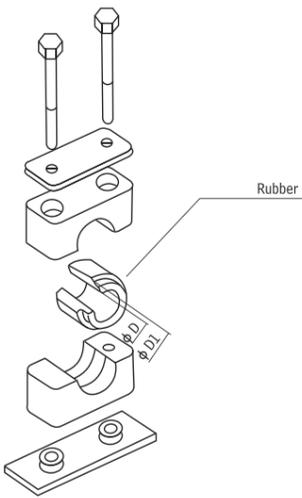
Clamp size	Order code	Weld plate					Double weld plate					Weld / screw plate								
		Clamp size					Order code	size					Order code	size						
		d	f	g	s	m		d	f	g	s	m		d	g	f	s	k	n	m
1	TH-A1	33	30	73	8	M10	THD-A1	33	60	73	8	M10	TH-B1	33	113	30	8	85	11	M10
2	TH-A2	45	30	85	8	M10	THD-A2	45	60	85	8	M10	TH-B2	45	125	30	8	97	11	M10
3	TH-A3	60	30	100	8	M10	THD-A3	60	60	100	8	M10	TH-B3	60	140	30	8	112	11	M10
4	TH-A4	90	45	140	10	M12	THD-A4	90	90	140	10	M12	TH-B4	90	190	45	10	160	14	M12
5	TH-A5	122	60	180	10	M16	THD-A5	122	123	180	10	M16	TH-B5	122	240	60	10	205	18	M16
6	TH-A6	168	80	225	15	M20	THD-A6	168	166	225	15	M20	TH-B6	168	310	80	15	270	22	M20
7	TH-A7	205	90	270	15	M24	THD-A7	205	187	270	15	M24	TH-B7	205	370	90	15	320	26	M24
8	TH-A8	265	120	340	25	M30	THD-A8	265	249	340	25	M30	TH-B8	265	450	120	25	390	33	M30
9	TH-A9	395	162	520	30	M30	THD-A9	395	329	520	30	M30	TH-B9	395	590	162	30	530	33	M30
10	TH-A10	534	182	680	30	M30	THD-A10	534	364	680	30	M30	TH-B10	534	750	182	30	690	33	M30

(The product in accordance with German standard DIN3015 Teil2)

Clamp size	Mounting rail		Rail nut			Cover plate					Double cover plate							
	Order code	Size	Order code	Size			Order code	Size					Order code	Size				
		b h		b d m	b d f s m	b d f s m												
1	TH-E	40 22	TH-F1	20 17.8 M10	TH-G1	55	33	30	8	11	THD-G1	55	33	60	8	11		
2					TH-G2	70	45	30	8	11	THD-G2	70	45	60	8	11		
3					TH-G3	85	60	30	8	11	THD-G3	85	60	60	8	11		
4					TH-F4	23 19.8 M12	TH-G4	115	90	45	10	14	THD-G4	115	90	90	10	14
5					TH-G5	152	122	60	10	18	THD-G5	152	122	123	10	18		
6					TH-G6	205	168	80	15	22	THD-G6	205	168	166	15	22		
7					TH-G7	250	205	90	15	26	THD-G7	250	205	187	15	26		
8					TH-G8	320	265	120	25	33	THD-G8	320	265	249	25	33		
9					TH-G9	470	395	162	30	33	THD-G9	470	395	329	30	33		
10					TH-G10	630	534	182	30	33	THD-G10	630	534	368	30	33		

Clamp size	Hexagon head bolts (GB5782-86) d×l	Socket head screws (GB70-85) d×l	Stacking bolts				Locking palte						
			Order code	Size				Order code	Size				
				a	b	m	sw		a	b	s	d	e
1	M10 45	M10 × 45	TH-H1	25	51	M10	15	TH-L1	55	30	8	10	15.5
2	M10 60	M10 × 60	TH-H2	40	66	M10	15	TH-L2	70	30	8	22	15.5
3	M10 × 70	M10 × 70	TH-H3	52	78	M10	15	TH-L3	85	30	8	37	15.5
4	M12 × 105	M12 × 105	TH-H4	112	M12			TH-L4	115	45	10	63	17.5
5	M16 × 135	M16 × 135	TH-H5	110	146	M16	21	TH-L5	152	60	10	89	21.5
6	M20 × 195	M20 × 195	TH-H6	153	206	M20	27	TH-L6	205	80	15	125	27.5
7	M24 220	M24 × 220	TH-H7	185	245	M24	30	TH-L7	250	90	15	151	30.5
8	M30 × 300	M30 × 300	TH-H8	250	330	M30	36	TH-L8	320	120	25	205	36.5
9	M30 × 450	M30 × 450											
10	M30 × 560	M30 × 560											

4、Heavy Series With Rubber Inside



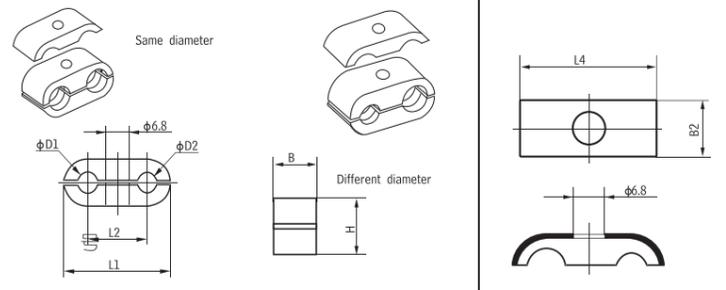
Clamp size	D	D1	Order code	Size	Spring washer model number			
2	10	26.9	THPG30-210	(Same THPG1-226.9)	TH-210			
	12		THPG30-212		TH-212			
	12.7		THPG30-212.7		TH-212.7			
	14		THPG30-214		TH-214			
	15		THPG30-215		TH-215			
	16		THPG30-216		TH-216			
	17.2		THPG30-217.2		TH-217.2			
	18		THPG30-218		TH-218			
	19		THPG30-219		TH-219			
	3		20		40	THPG30-320	(Same THPG1-340)	TH-320
21.3		THPG30-321.3	TH-321.3					
22		THPG30-322	TH-322					
25		THPG30-325	TH-325					
26.9		THPG30-326.9	TH-326.9					
28		THPG30-328	TH-328					
30		THPG30-330	TH-330					
32		THPG30-332	TH-332					
4		32	65	THPG30-432		(Same THPG1-465)		TH-432
		33.7		THPG30-433.7				TH-433.7
	35	THPG30-435		TH-435				
	38.7	THPG30-438.7		TH-438.7				
	40	THPG30-440		TH-440				
	42	THPG30-442		TH-442				
	45.5	THPG30-445.5		TH-445.5				
	48	THPG30-448		TH-448				
	51	THPG30-451		TH-451				
	53.4	THPG30-453.4		TH-453.4				
56.4	THPG30-456.4	TH-456.4						
5	55	88.9	THPG30-555	(Same THPG1-588.9)	TH-555			
	57		THPG30-557		TH-557			
	60		THPG30-560		TH-560			
	65		THPG30-565		TH-565			
	70		THPG30-570		TH-570			
	72		THPG30-572		TH-572			
	76		THPG30-576		TH-576			
	6		80		114.3	THPG30-680	(Same THPG1-6114.3)	TH-680
88.9		THPG30-688.9	TH-688.9					
90		THPG30-690	TH-690					
97		THPG30-697	TH-697					
100		THPG30-7100	TH-6100					
7		127	159	THPG30-7127		(Same THPG1-7159)		TH-7127
	133	THPG30-7133		TH-7133				
	140	THPG30-7140		TH-7140				

5、Small Series

Range of application
 Prematic line、vehicle、machine building、
 metering and controlling equipment machine
 tool and cable、hose.

Order code
 TTSP- Small twin tube clamp. polypropyiere
 TTSN- Small twin tube clamp. Polypamide 6

(As required please exchange standard abbreviation "TTSP" in column for "order code")

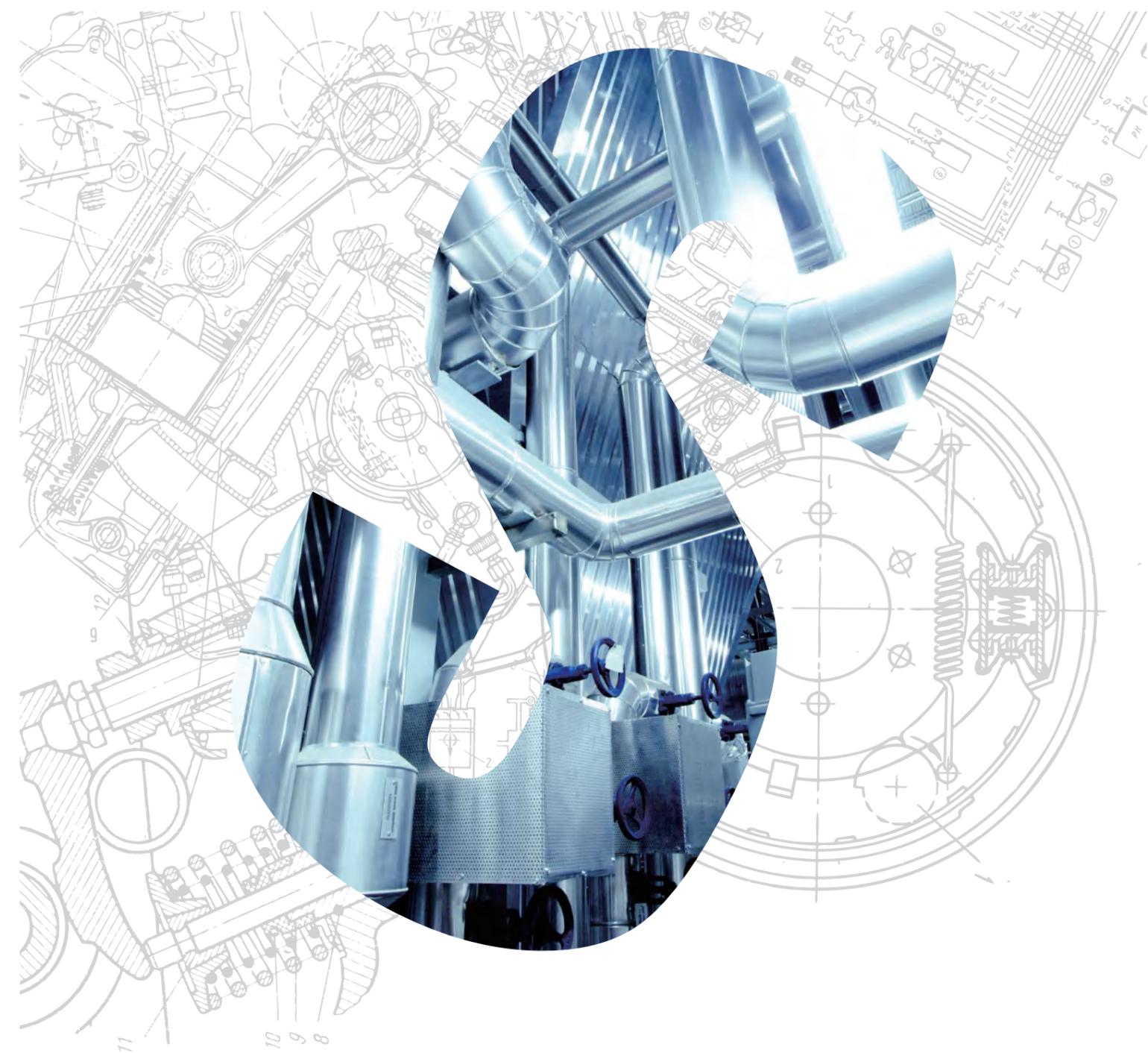


Clamp size	mm O.D. D1/D2	Inch I.D.	Inch O.D.	Order code	Size				cover plate		
					L1	L2	B	H	Order code	Size	
										L4	B2
1	6/6		$1/4^{1/4}$	TTSP-106 TTSP-106.4 TTSP-108	32	18	14.5	13.5	TS-G1	29	15.5
	6.4/6.4										
	8/8										
2	8/8	$1/8^{1/8}$	$3/8^{3/8}$	TTSP-208 TTSP-209.5 TTSP-210 TTSP-212 TTSP-212.7	41	22	14.5	18.5	TS-G2	40	16.5
	9.5/9.5										
	10/10										
	12/12										
	12.7/12.7										
3	10/10	$1/8^{1/8}$	$1/2^{1/2}$	TTSP-310 TTSP-312 TTSP-312.7 TTSP-313.5	54	30	14.5	23.5	TS-G3	49.5	16
	12/12										
	12.7/12.7										
	13.5/13.5										
	14/14	$1/4^{1/4}$	$5/8^{5/8}$	TTSP-314 TTSP-315 TTSP-316							
	15/15										
	16/16										
4	14/14	$3/8^{3/8}$	$3/4^{3/4}$	TTSP-414 TTSP-415 TTSP-416 TTSP-417.2 TTSP-418 TTSP-419 TTSP-420 TTSP-421.3 TTSP-422	70	38	14.5	30.5	TS-G4	62.5	16
	15/15										
	16/16										
	17.2/17.2										
	18/18										
	19/19										
	20/20										
	21.3/21.3										
	22/22										

Diameter variations are marked in the order code φ D2.

REMOVABLE FILTER DEVICE

<p>Range of application Prematic line, vehicle, machine building, metering and controlling equipment, machine tool and cable, hose</p> <p>Order code TSP- Small tube clamp, PP TSN- Small tube clamp, PA 6</p> <p>(As required please exchange standard abbreviation "TSP" in column for "order code")</p>										
Clamp size	mm O.D. D1	inch I.D.	inch O.D.	Order code	Size					
					L1	L2	L3	B	H	φ D2
1	06 06.4 08		1/4	TSP-106 TSP-106.4 TSP-108	22	9	7	14.5	13.5	6.8
2	08 09.5 10 12 12.7	1/8 1/2	3/8 1/2	TSP-208 TSP-209.5 TSP-210 TSP-212 TSP-212.7	27	11	7	14.5	18.5	6.8
3	10 12 12.7 13.5 14 15 16	1/8 1/4 5/8	1/2 5/8	TSP-310 TSP-312 TSP-312.7 TSP-313.5 TSP-314 TSP-315 TSP-316	33	15	7	14.5	23.5	6.8
4	14 15 16 17.2 18 19 20 21.3 22	3/8 1/2	5/8 3/4	TSP-414 TSP-415 TSP-416 TSP-417.2 TSP-418 TSP-419 TSP-420 TSP-421.3 TSP-422	40	19	7	14.5	30.5	6.8



1、MF Series Cart Filter

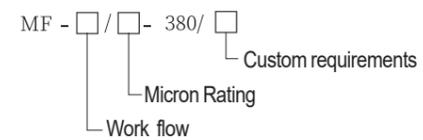
SPECIFICATIONS

Working Pressure: 10bar
Flow Range: 40~110L/min
Filtration Accuracy: 3~10μm
Power Plug: CEE16A, 3P+N+G, Length 6 meters
Power supply voltage: 3-380VAC/50Hz
Oil Suction Pipe: Steel Wire Reinforced PVC Pipe, Length 3 meters
Oil Discharge Pipe: Steel Wire Braided Hose, Length of 3 meters
Fluid Compatibility: Suitable for Mineral oil, Emulsion, Phosphate ester
Please contact our sales staff if there is any additional media you need.

TECHNICAL PARAMETER

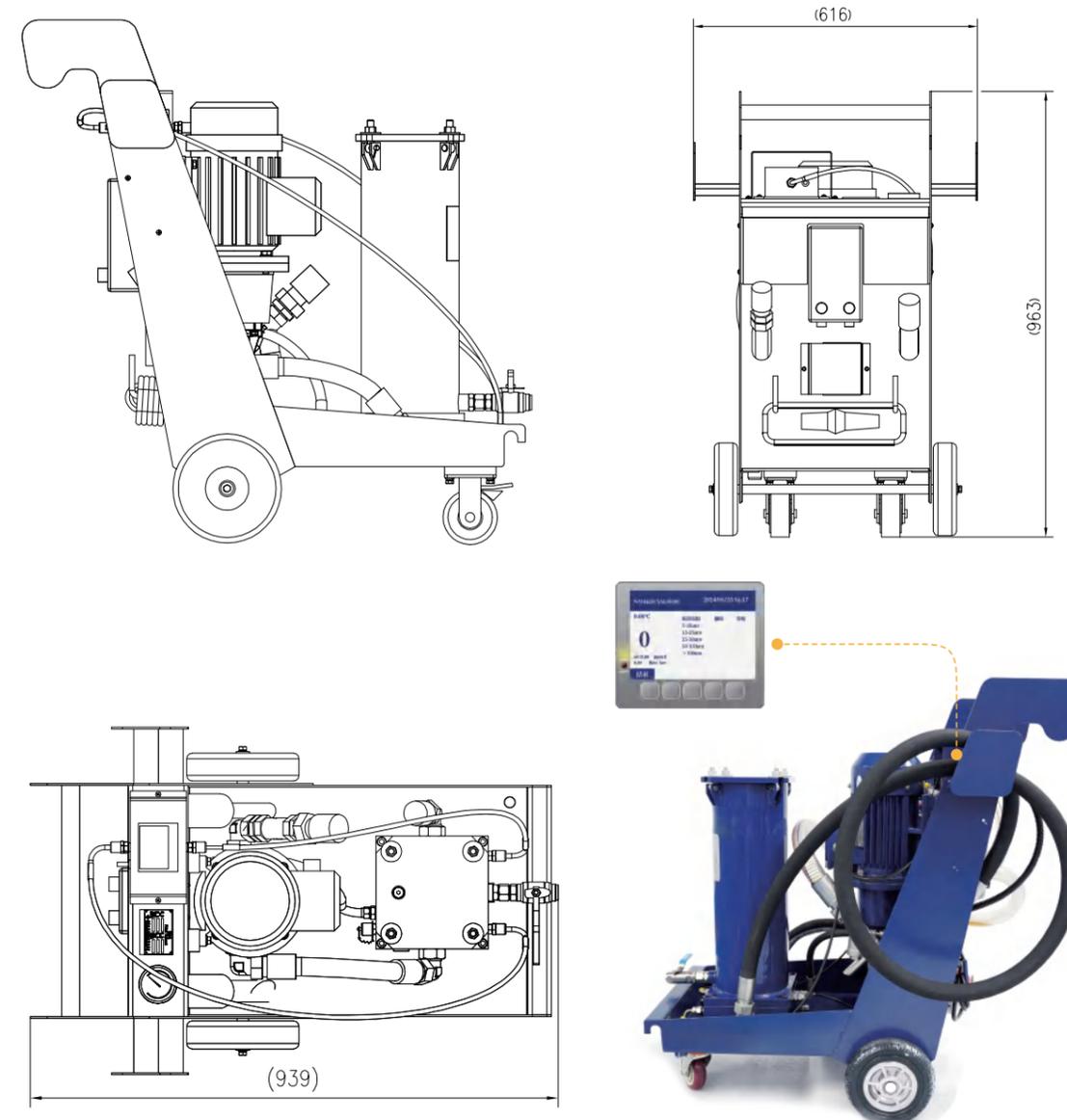
Model	Flow Rate (L/min)	Filtr. (μm)	Motor Power (Kw)	Motor Voltage (V)
MF40	40	3,5,10	1.1	AC:380
MF110	110		4	

MODEL CODE



MOUNTING SIZE

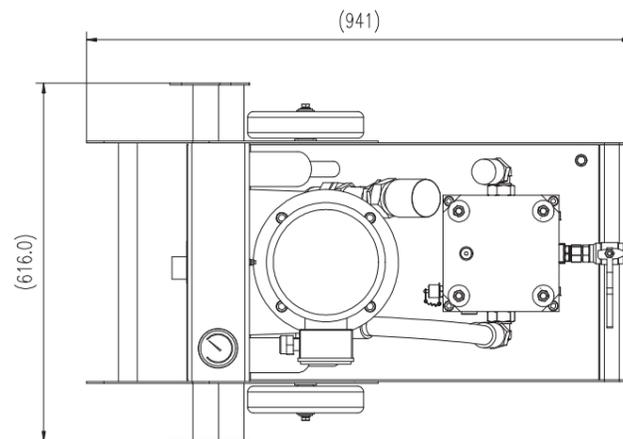
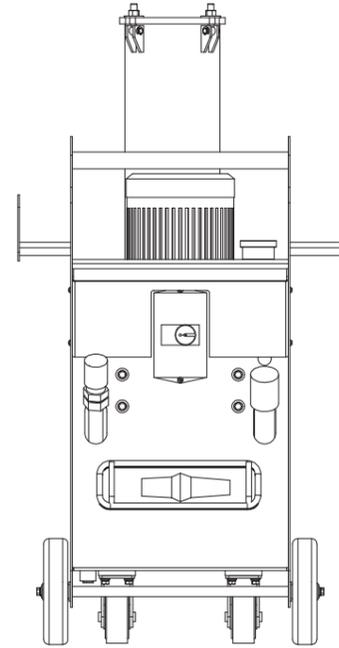
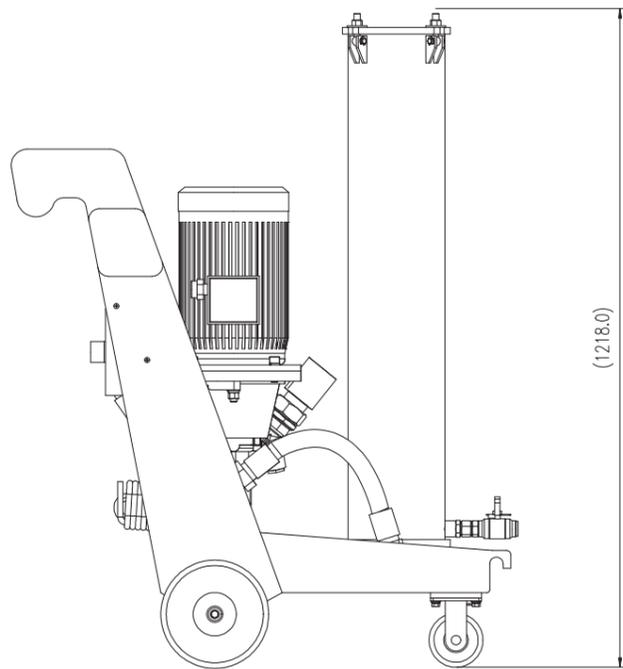
1、MF40 (The equipped pollution degree detector has the function of pollution degree detection.)



2, MF110

SOME CUSTOMISED MODELS

Customers put forward the demand for special models, our technical research and development team to carry out demand analysis and scheme design, efficient implementation and optimisation of the scheme, and finally, we will carry out product delivery and acceptance with customers.



CONTENT

1、SH-60×80 oil suction filter	187
2、ER-0400×003Q059-M oil suction filter	188
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10、FBF-10×0.45 Air Filter	196

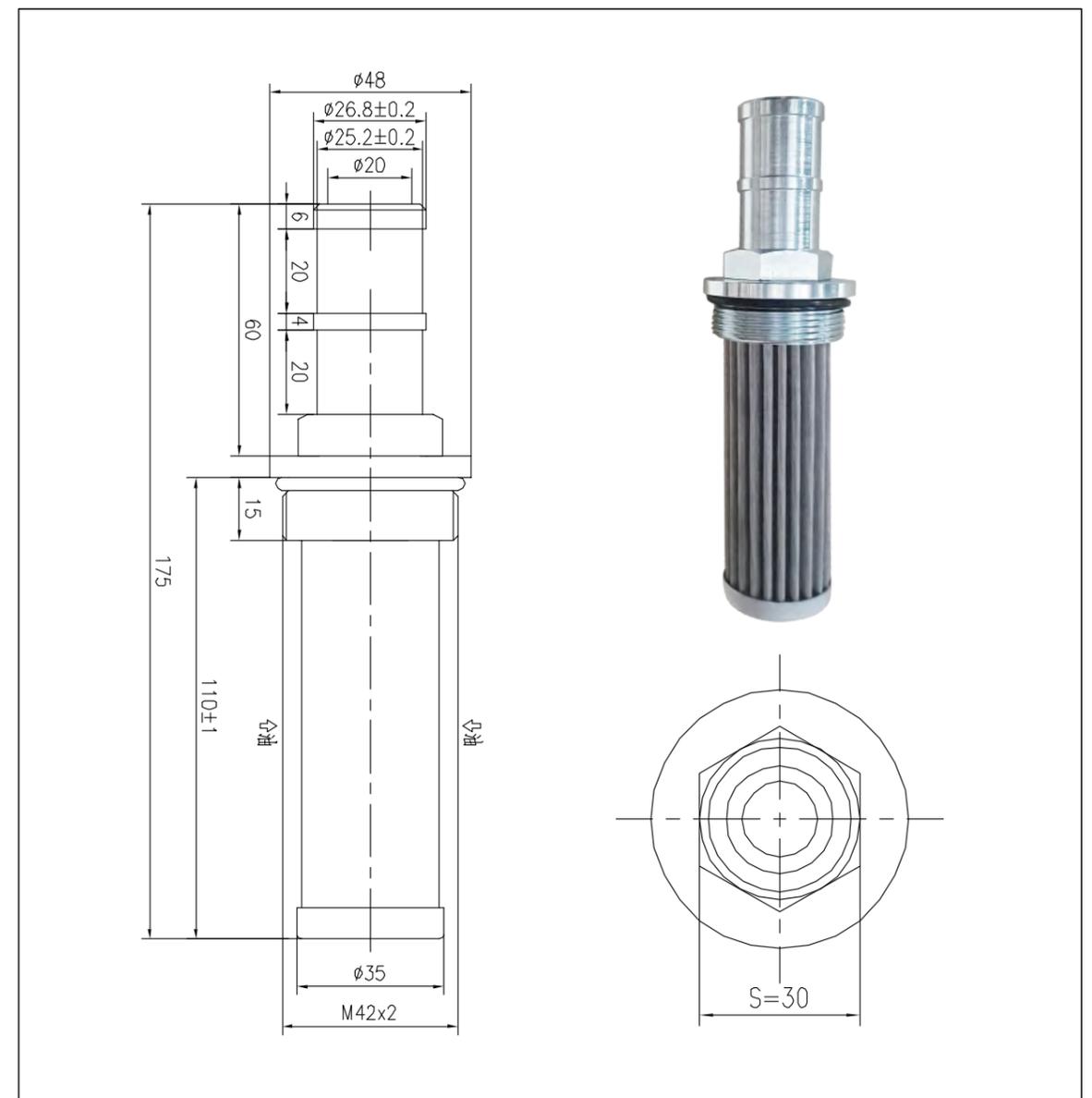
1、SH-60×80 oil suction filter

SPECIFICATIONS

Flow Rate: 60L/min

Flow Range: 80μm

Operating Temp: -20°C~+100°C



2、ER-0400×003Q059-M oil suction filter

SPECIFICATIONS

Flow Rate: 400L/min

Flow Range: 3μm

Operating Temp: -20°C~+100°C



3、EFR0800×10-S oil return filter

SPECIFICATIONS

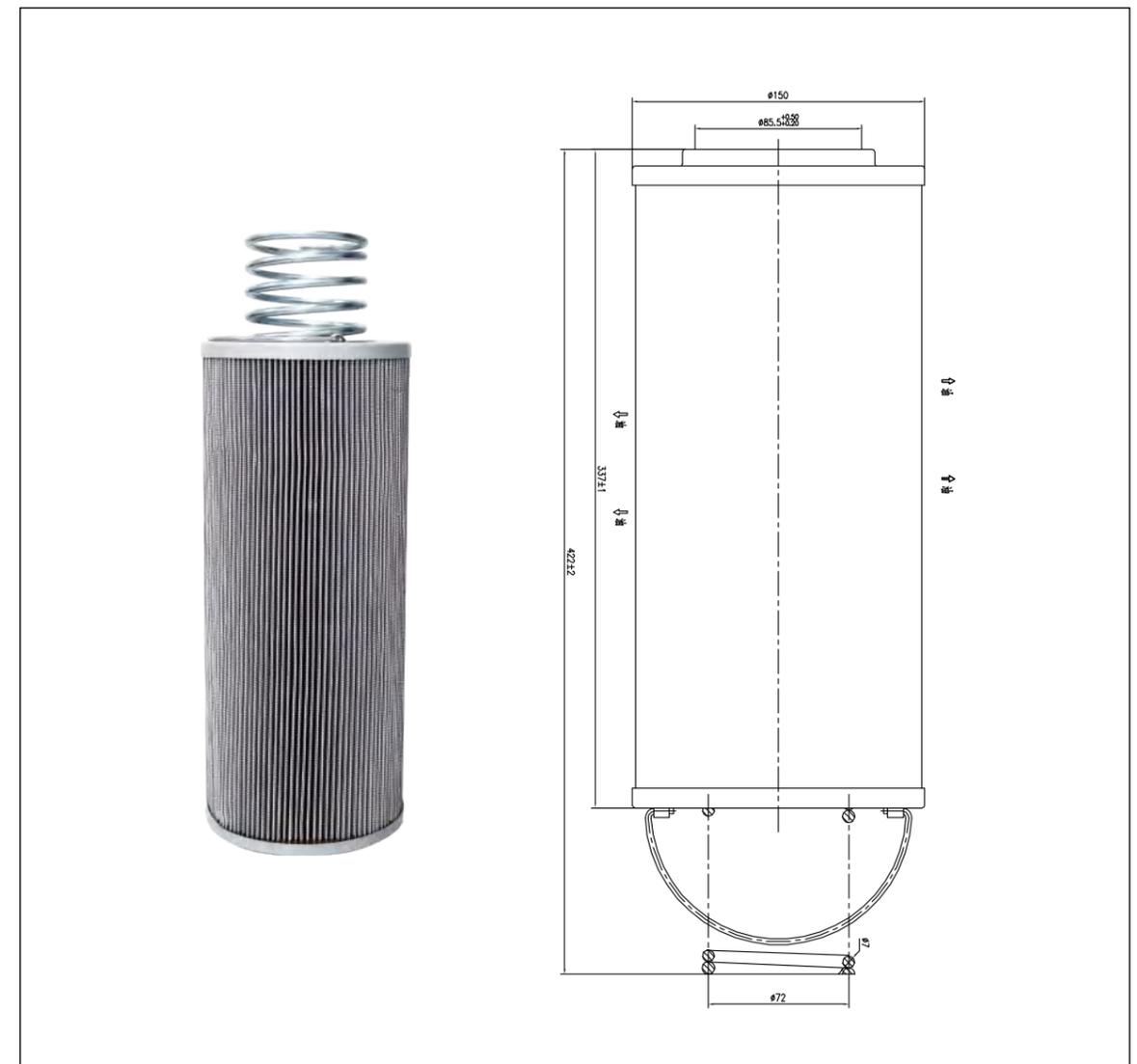
Flow Rate: 800L/min

Flow Range: 10μm

Operating Temp: -20°C~+100°C

By-pass Valve Cracking Pressure: 0.35 ± 0.05 MPa

Original pressure: ≤ 0.05 MPa



4、EFR0700C×10-C oil return filter

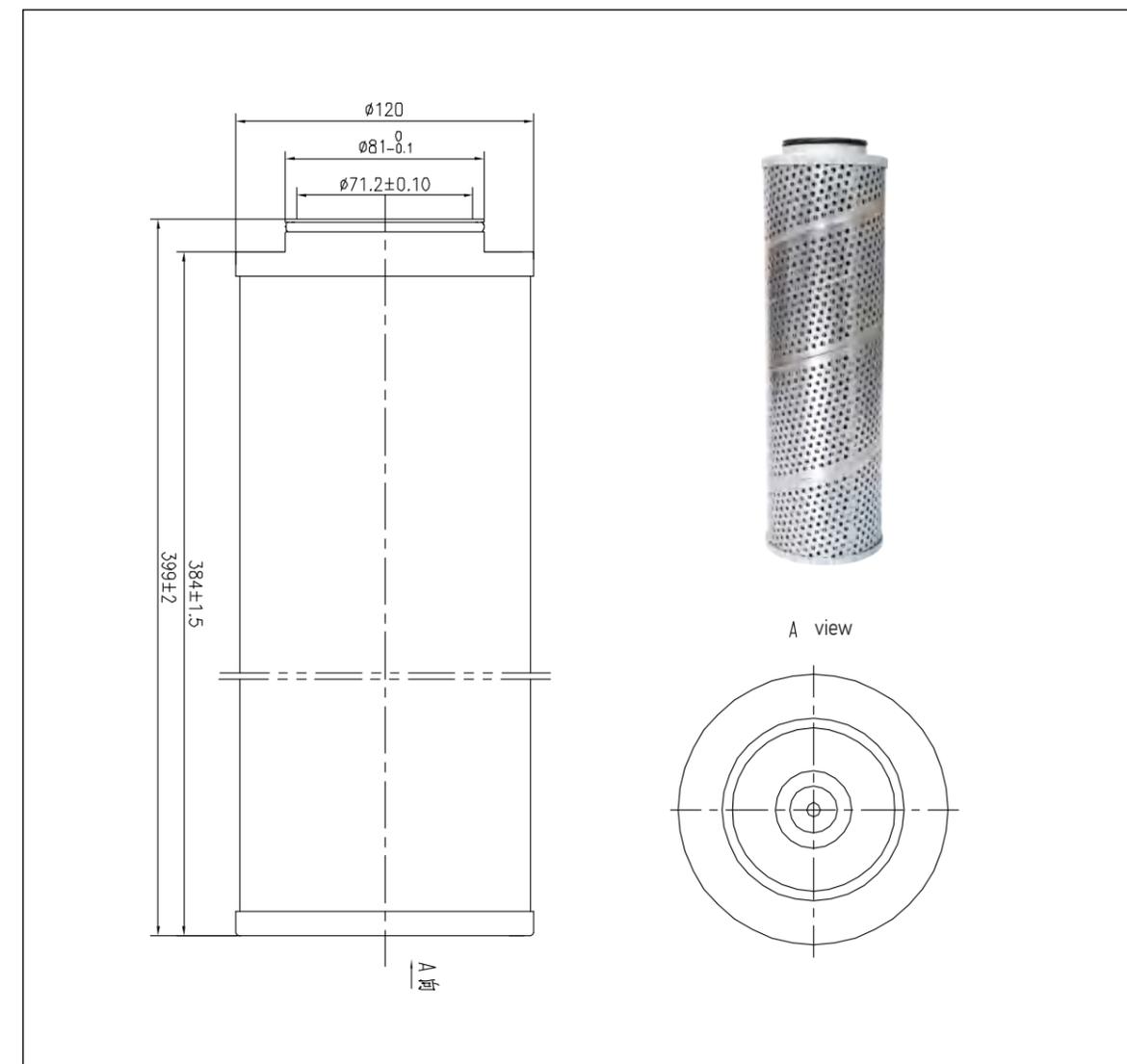
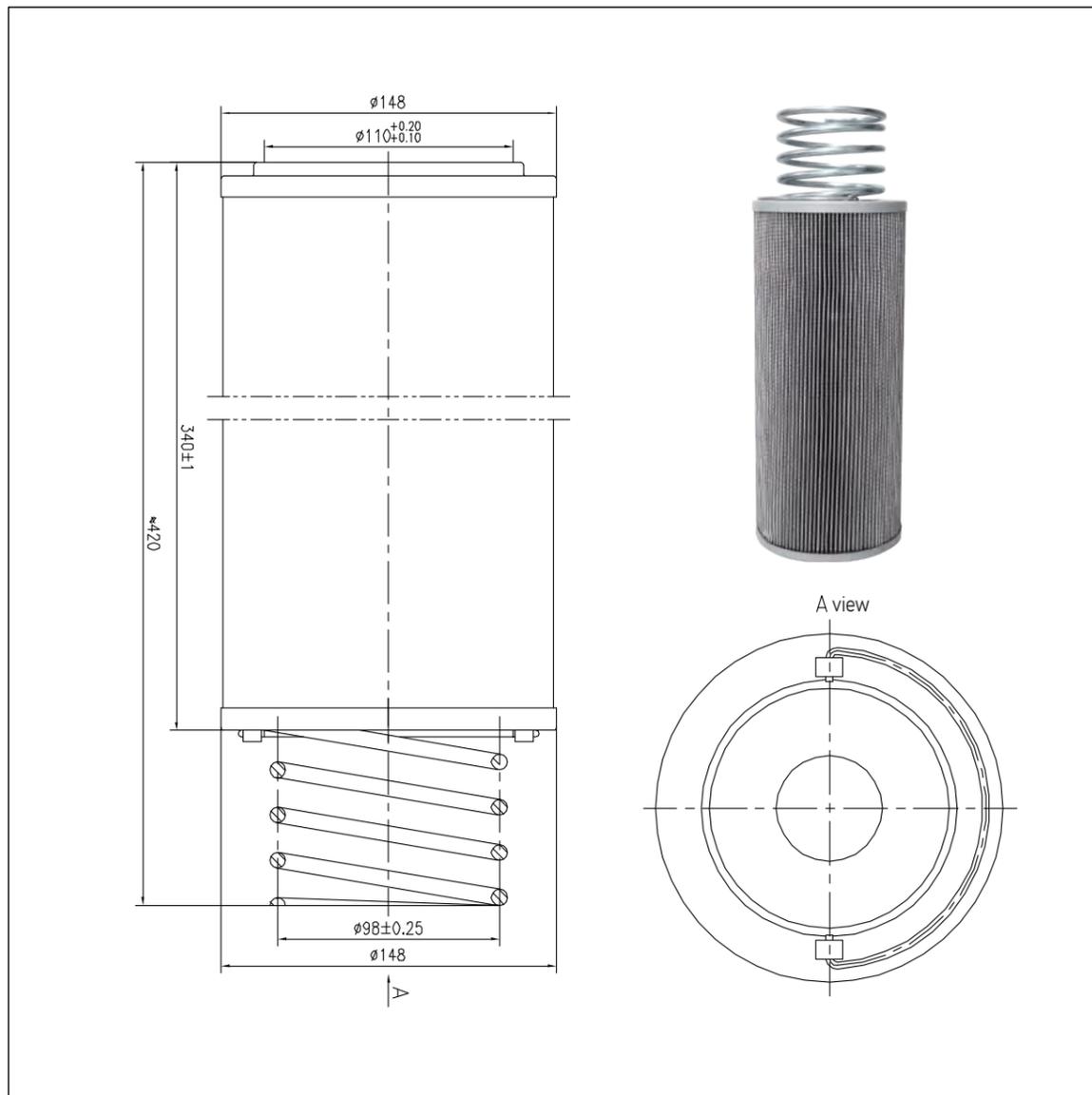
5、ER-400×10Q/081-40 oil return filter

SPECIFICATIONS

SPECIFICATIONS

Flow Rate: 700L/min
Flow Range: 10μm
By-pass Valve Cracking Pressure: 0.40±0.05MPa
Original pressure: ≤0.03MPa

Flow Rate: 400L/min
Flow Range: 10μm
Filter Media: Glass fibre
Operating Temp: -25°C~+110°C
By-pass Valve Cracking Pressure: 0.40±0.04MPa



6、SLGR0400A×10-S oil return filter

SPECIFICATIONS

Flow Rate: 400L/min

Flow Range: $\beta_{10} \geq 200$

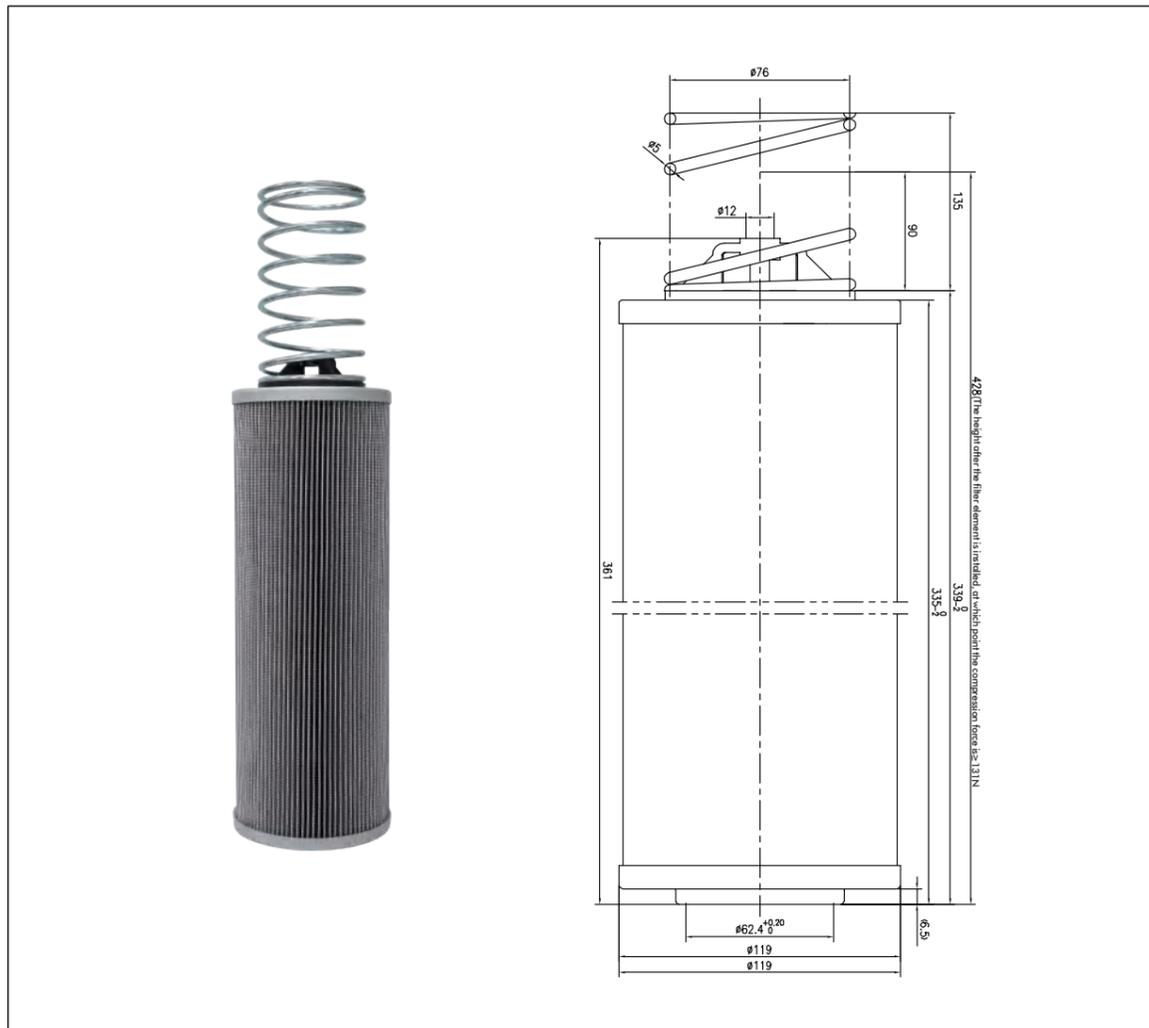
Filtration area: 9300cm²

By-pass Valve Cracking Pressure: 0.25MPa

Initial pressure drop: ≤ 50 KPa

Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.



7、SPFB-125×10-LF Rotary Filter

SPECIFICATIONS

Flow Rate: 125L/min

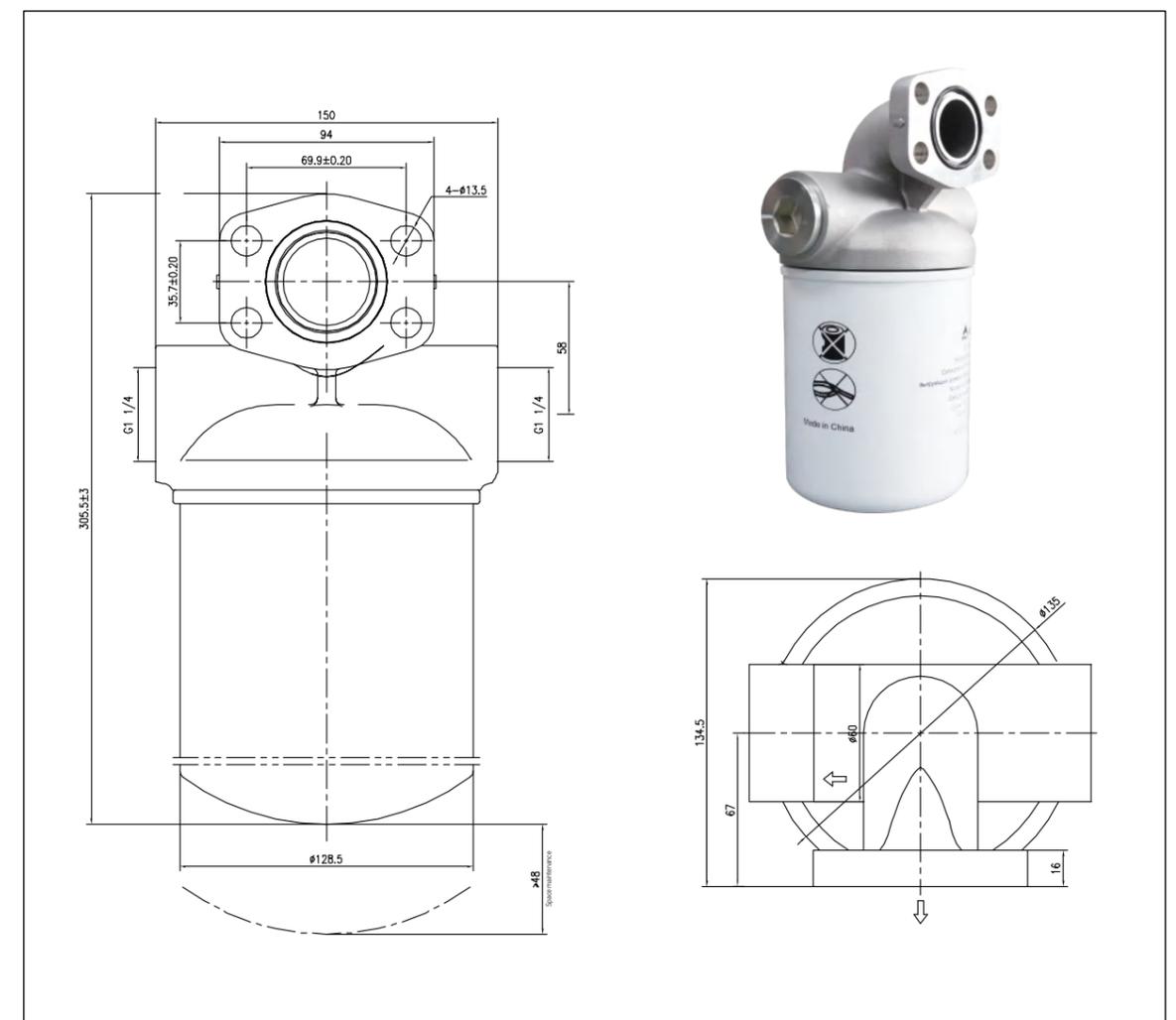
Maximum working pressure: 0.7MPa

Filtration area: ≥ 3400 cm²

By-pass Valve Cracking Pressure: 0.1MPa

Fluid Compatibility: Suitable for mineral oil, synthetic oil

Please contact our sales staff if there is any additional media you need.



8、SPFB-200×100LF-Y Rotary Filter

SPECIFICATIONS

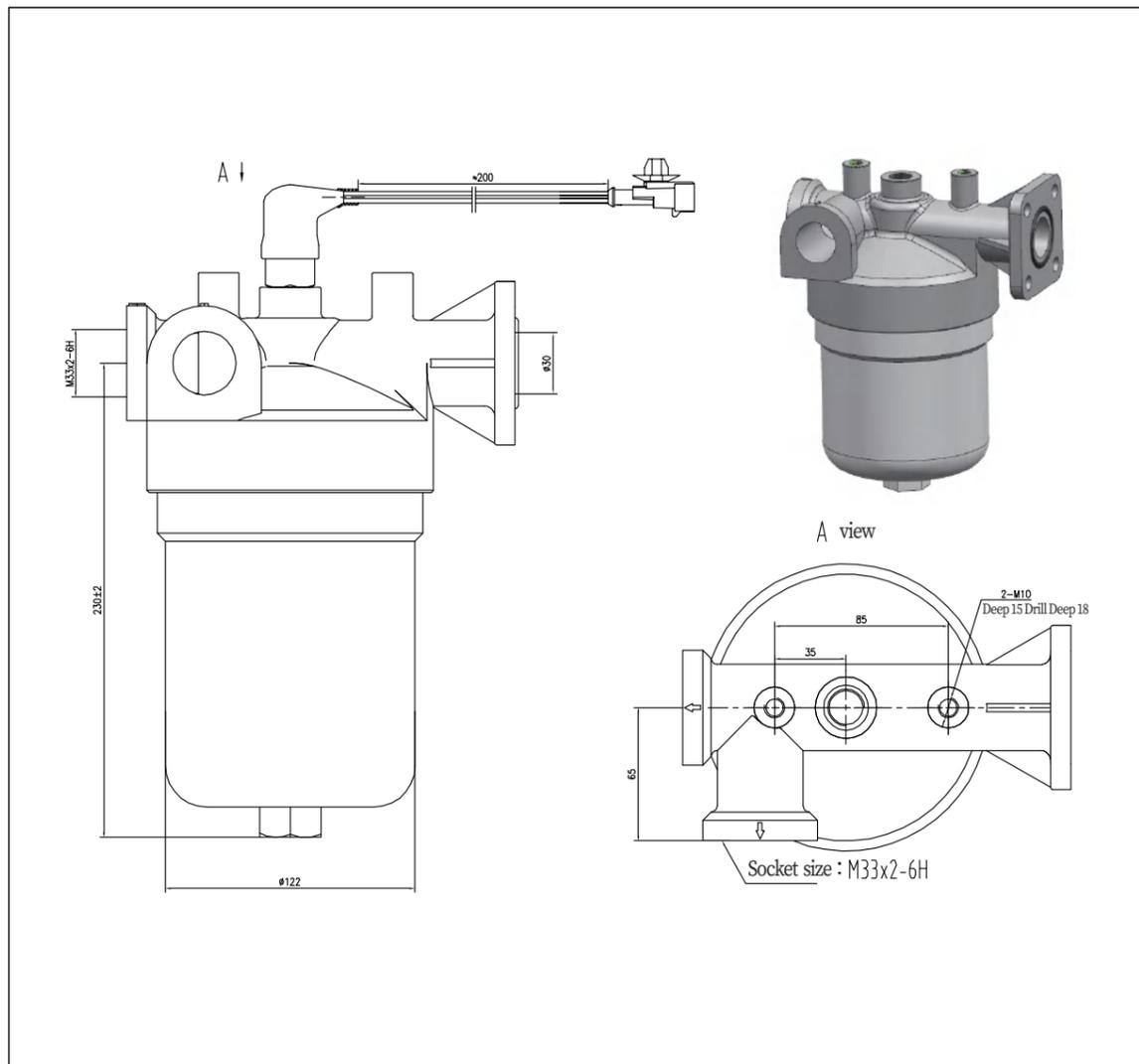
Flow Rate: 200L/min

Operating Temp: -30°C~+120°C

Operating Temp: 2MPa

Flow Range: 100µm

Transmitter alarm pressure: 0.025MPa



9、SPFB-60×10X.B Rotary Filter

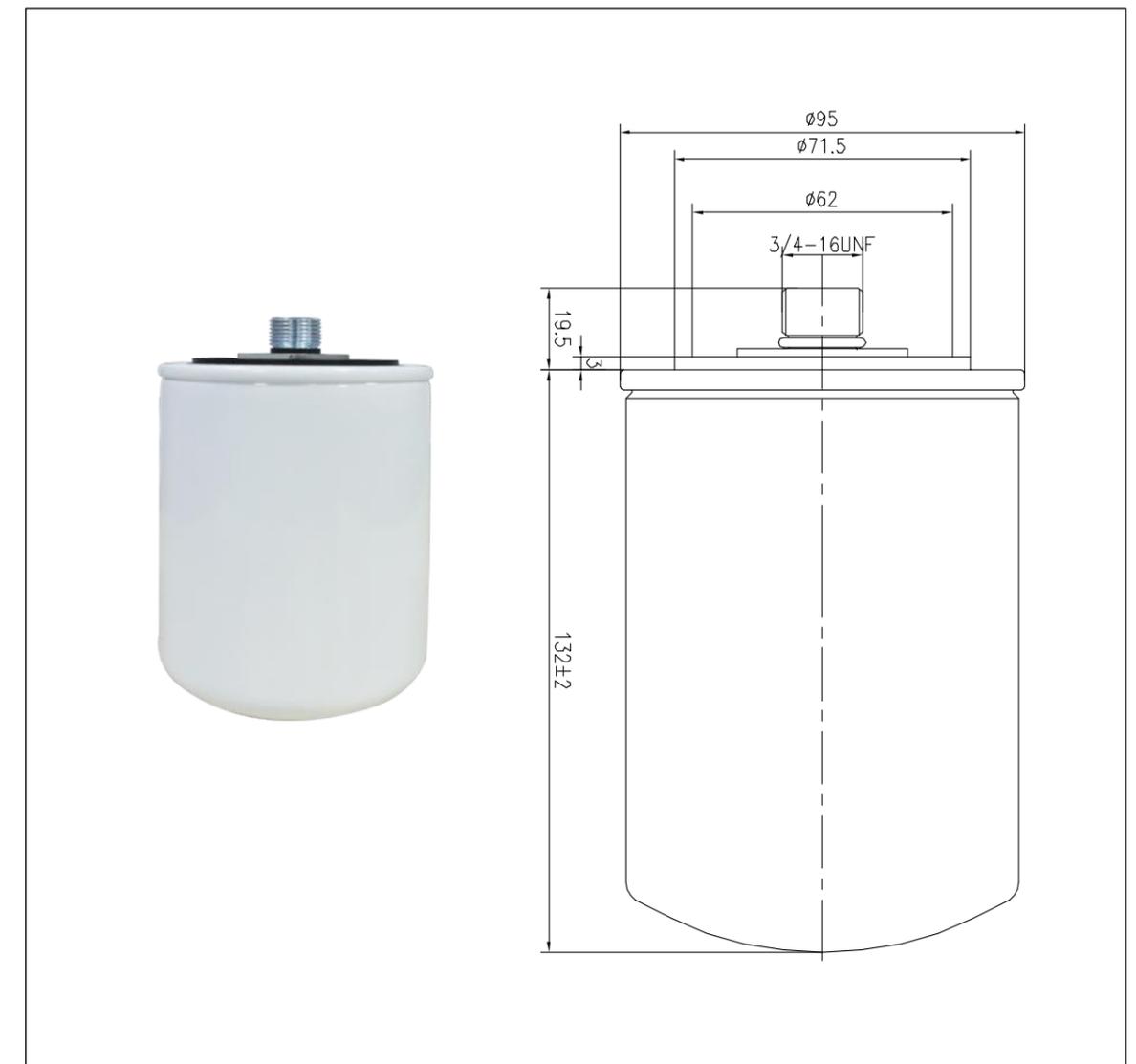
SPECIFICATIONS

Flow Rate: 60L/min

Flow Range: 10µm

Operating Temp: -30°C~+120°C

Maximum working pressure: 1MPa

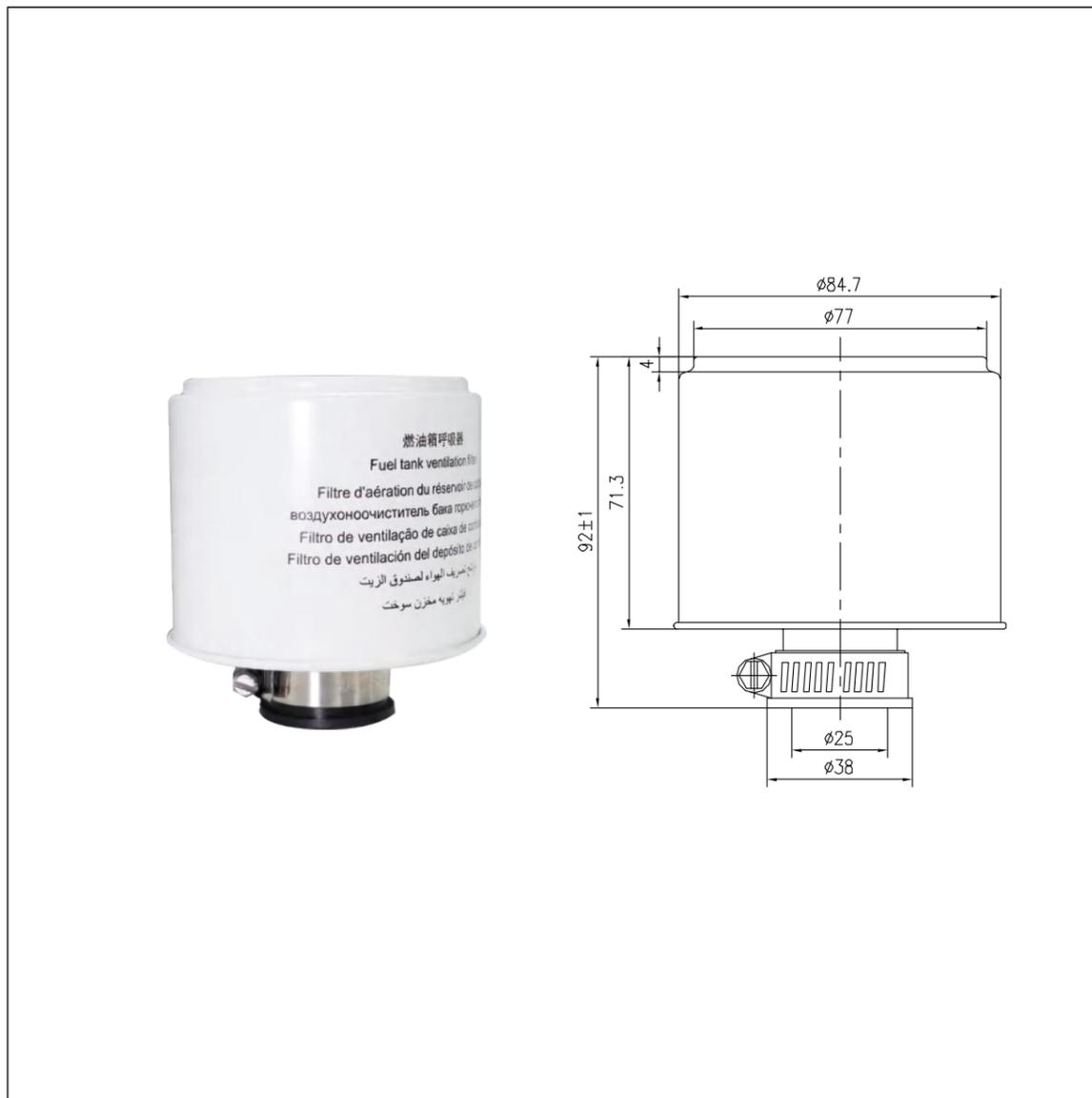


10、FBF-10×0.45 Air Filter

SPECIFICATIONS

Air flow: 0.45m³/min

Flow Range: 10μm



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