

Y52 Series Diaphragm Valve

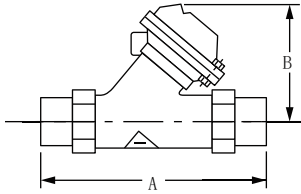
Technical Advantages

- ✓ Our diaphragm valves utilize a dual-chamber design to control internal flow. This design makes the control more flexible, reliable and durable, and minimizes switching defects that a single-chamber valve may have.
 - ✓ The valve body and cap are molded with glass fiber reinforced thermoplastic that gives extreme strength, long service life and excellent corrosion resistance. Our diaphragm valves are well suited to demineralization processes.
 - ✓ A special molding process is used to give the reinforced rubber diaphragm extra strength, abrasion resistance and long service life.
 - ✓ The Y-pattern design minimizes pressure loss and increases flow, which results in energy efficient valves.
- Working Pressure: 1 - 8 bar (15-115 psi)
 - Working Temperature: 4 - 50 °C (40-122 °F)



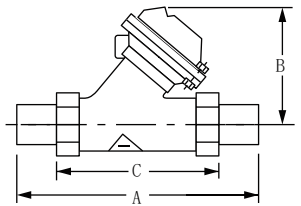
Specifications

Male Socket Weld End Connectors



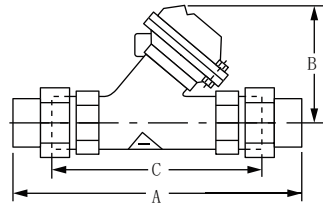
Pipe Size	Units	A	B
1.25"	inches	6.30	3.43
	mm	160.0	87.0

Grooved Adaptor Connectors



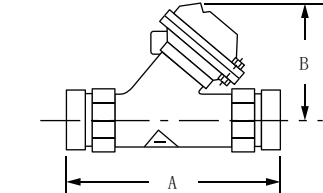
Pipe Size	Units	A	B	C
1"	inches	9.00	4.06	4.50
	mm	228.6	103.1	114.3
1.5"	inches	12.50	5.06	7.75
	mm	336.5	128.5	196.8

Union End Connectors



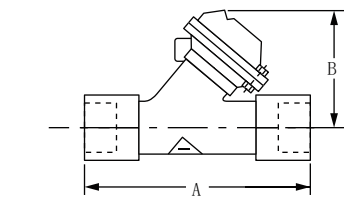
Pipe Size	Units	A	B	C
2"	inches	12.32	5.06	8.78
	mm	313	128.5	223

Grooved prepared for coupling



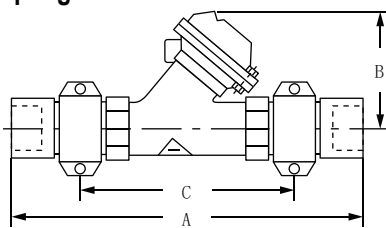
Pipe Size	Units	A	B
2"	inches	7.87	5.06
	mm	200.0	128.5
3"	inches	12.60	8.69
	mm	320.0	220.7

Female Socket Weld End Connectors



Pipe Size	Units	A	B
1"	inches	6.30	3.43
	mm	160.0	87.0
1.5"	inches	8.35	5.35
	mm	212.0	136.0
2"	inches	10.24	5.35
	mm	260.0	136.0

Coupling+Socket Weld End Connectors



Pipe Size	Units	A	B	C
1.5"	inches	12.83	5.06	7.87
	mm	326.0	128.5	200.0
2"	inches	13.23	5.06	7.87
	mm	336.0	128.5	200.0
2.5"	inches	18.50	8.69	12.60
	mm	470.0	220.7	320.0



Y521



Y524



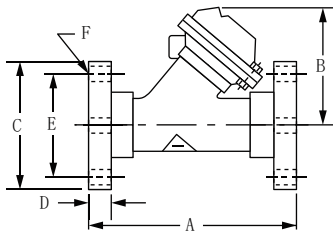
Y526



Y528

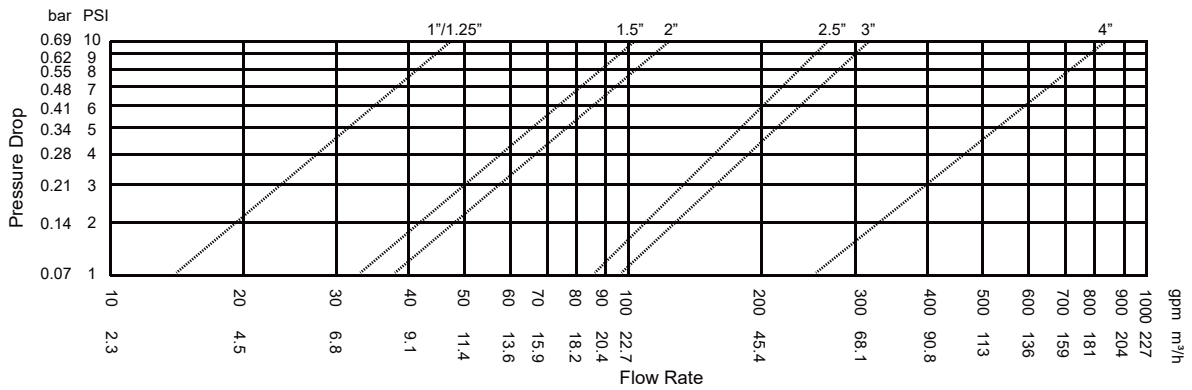


Flanged End Connectors




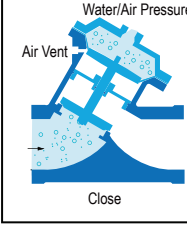
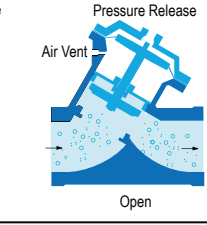
Pipe Size	Standard	Units	A	B	C	D	E	F
2.5"	DIN	inches	11.22	8.69	7.28	0.87	5.71	.71
	/	mm	285.0	220.7	185.0	22.0	145.0	18.0
3"	DIN	inches	12.52	8.69	7.87	0.87	6.30	.71
	/	mm	318.0	220.7	200.0	23.0	160.0	18.0
4"	DIN	inches	12.20	9.37	8.66	.91	7.09	.71
	/	mm	310.0	238.0	220.0	23.0	180.0	18.0

Performance Data


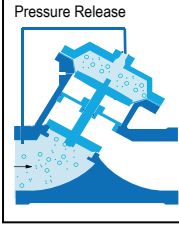
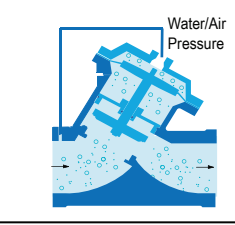


Principles of Operation


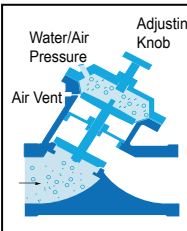
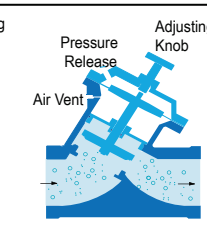
Normally Open Diaphragm Valve


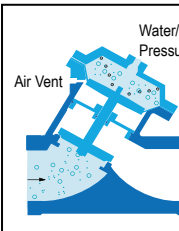
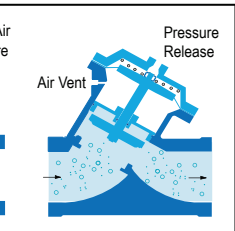
Normally Closed Diaphragm Valve


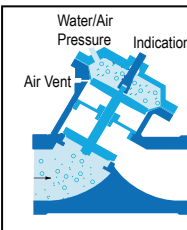
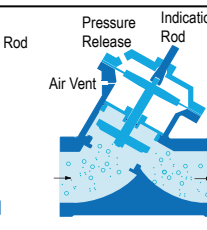
Limit Stop Diaphragm Valve


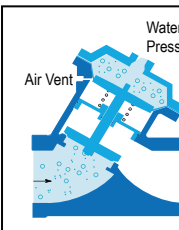
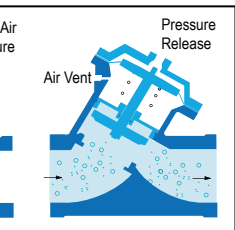
Spring-assist Closed Diaphragm Valve


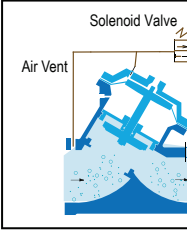
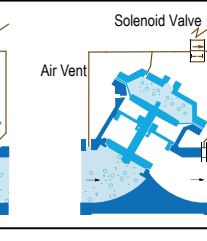
Position Indicator Diaphragm Valve


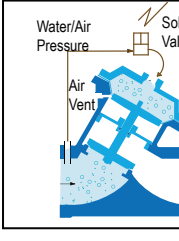
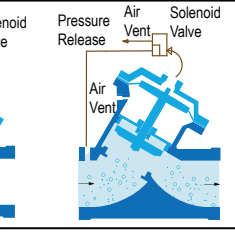
Spring-assist Open Diaphragm Valve



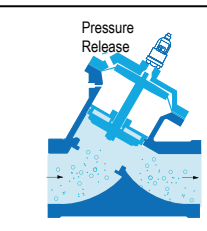
Solenoid Diaphragm Valve (Normally Closed)


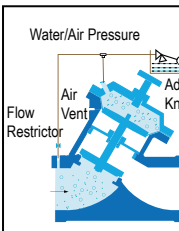
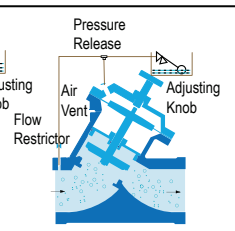
Solenoid Diaphragm Valve (Normally Open)


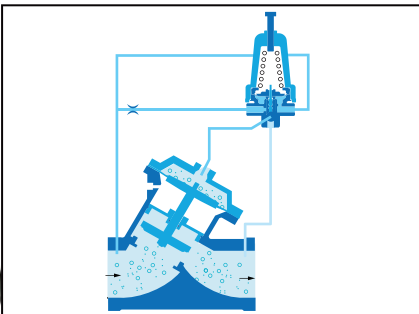
Signal Switch Diaphragm Valve


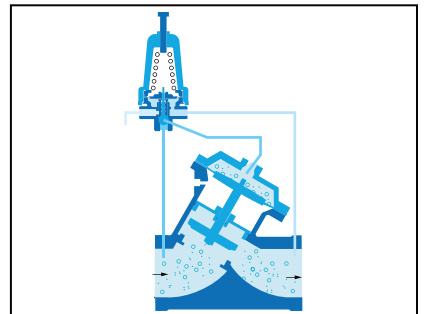
Liquid Level Control Diaphragm Valve

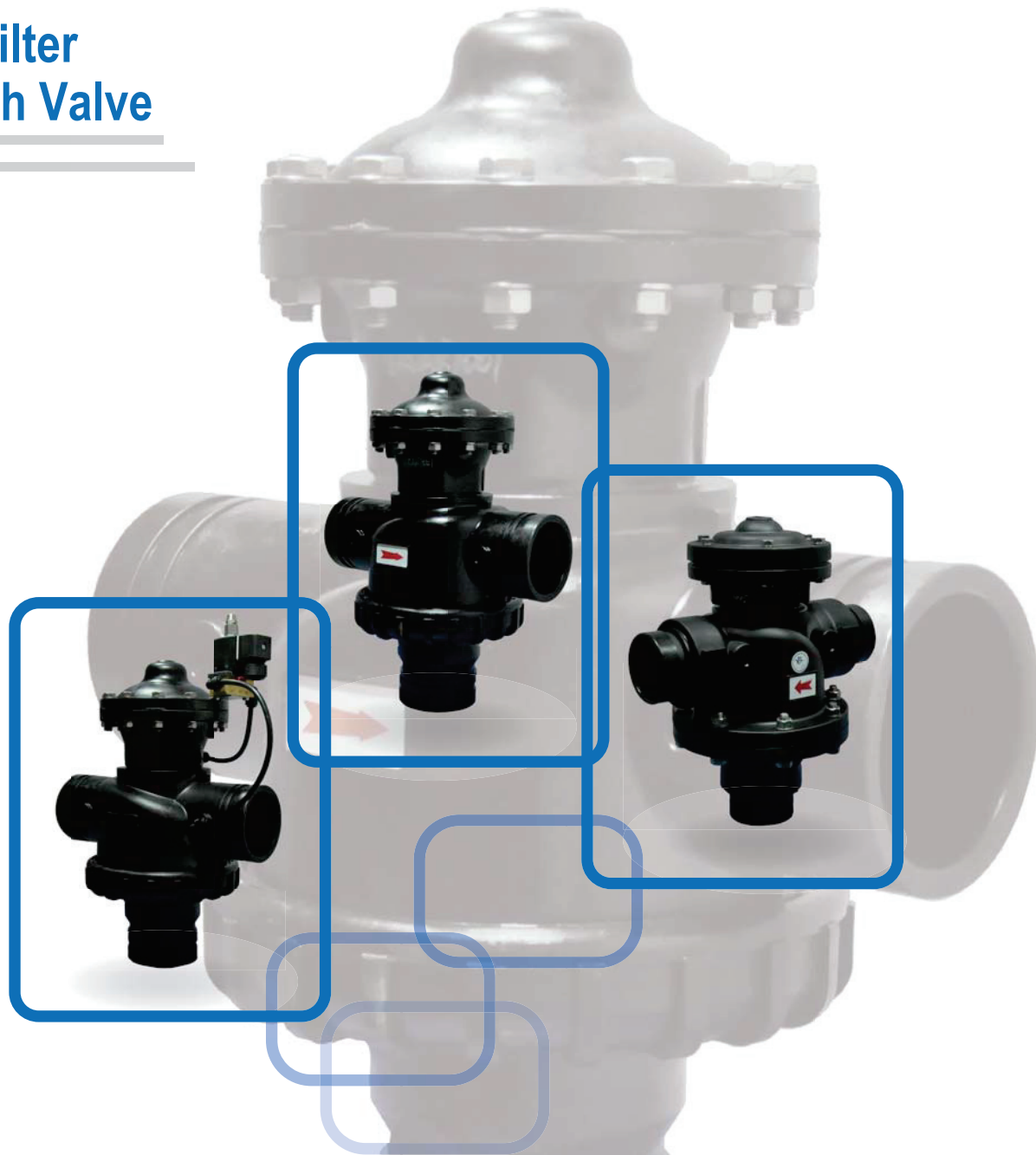
Pressure Sustaining Diaphragm Valve

Pressure Reducing Diaphragm Valve

B Type Filter Backwash Valve

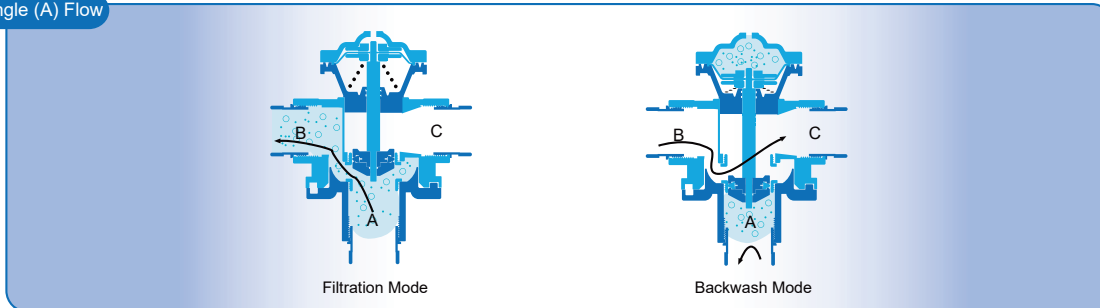


Technical Advantages

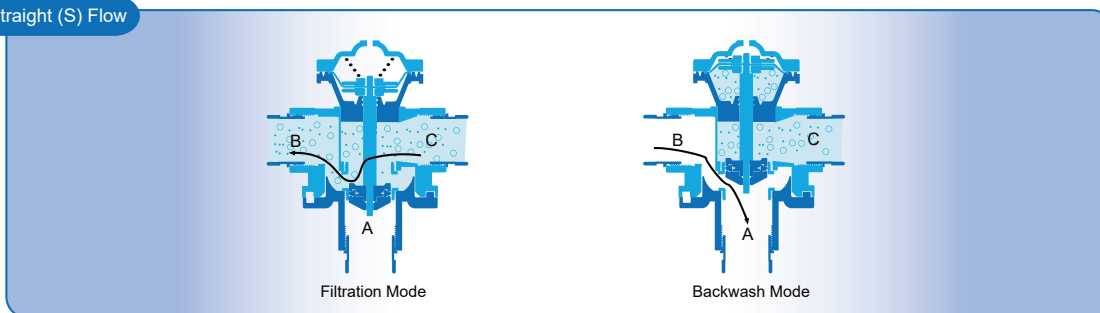
- ✓ The whole valve is made from reinforced PA material, so it is very sturdy and durable.
- ✓ We use a special molding process to enhance the strength of rubber diaphragm and improve abrasion resistance and working life.
- ✓ Every connection port goes with grooved end connection, which enables easy assembly and disassembly.
- ✓ Simple construction, light weight and extra low malfunction rate.

Principles of Operation

Angle (A) Flow



Straight (S) Flow



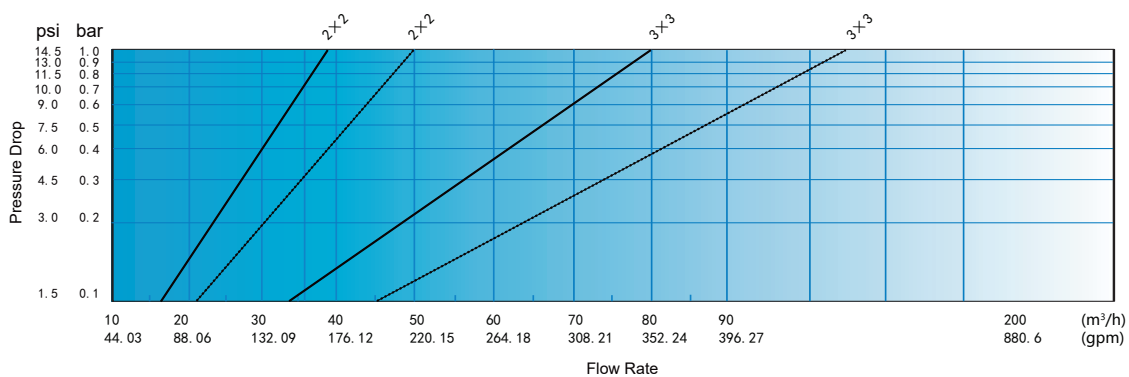
Specifications

Model No.	Material	Connection Type (Grooved adaptor connectors)	Gross Weight (Kg)	Installation Dimensions L×H×W	
				(mm)	(Inches)
B220A/S	Reinforced PA	2"×2"×2"	2.9	239×276×160	9.4×10.9×6.3
B330A/S		3"×3"×3"	5.2	288×380×194	11.3×15×7.6

■ Working Pressure: 2 – 8 bar (30 – 115 psi)

■ Working Temperature: 4 - 50 °C (40-140 °F)

Performance Data



Filtration Mode ———
Backwash Mode - - - - -

Stager and stager controller



Technical features

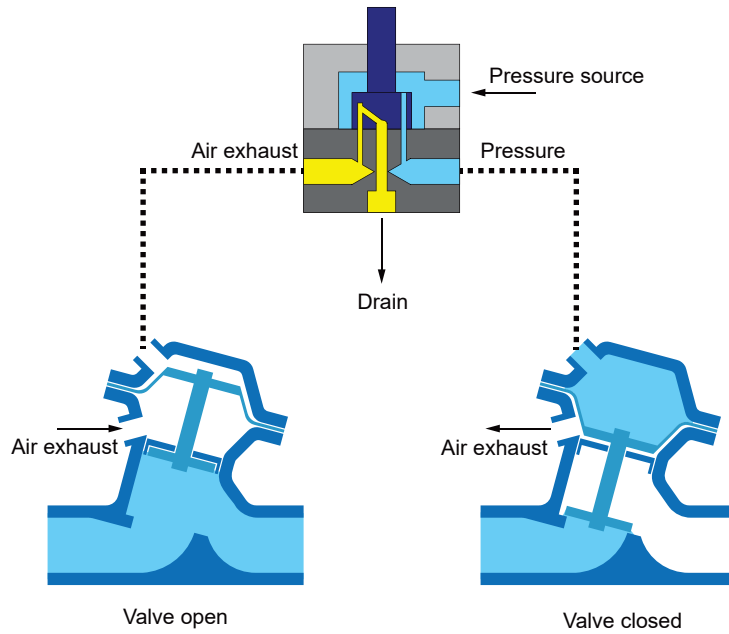
- ✓ A motor rotation driving each output port to control the opening and closing of the diaphragm valve.
- ✓ Simple structure, the rotating mechanism adopts the design of self-lubricating material enhancing durability.
- ✓ Specially designed for diaphragm valves, a stager can control one system. An ideal controlling equipment for diaphragm valve.
- ✓ Operated by either hydraulic pressure or pneumatic pressure. The control pressure must be equal to or greater than the system line pressure.
- ✓ It can realize a variety of water treatment processes and has a wide application.

Stager technical parameters

Item	Parameter
Maximum working pressure	125psi (8bar)
Control source	Air / Water
Operating	4-60°C
Material of subject	Model 48: PA6+GF
	Model 51:: Brass
	Model 56: PPO+GF
Stem plate material	Model 58:: UPVC
	Ptfe& Ceramic
	Model 48: 6
Quantity of control ports	Model 51: 8
	Model 56: 12
	Model 58: 16
Motor parameter	Voltage: 220VAC, 110VAC, 24VDC
	Power: 4W/6W

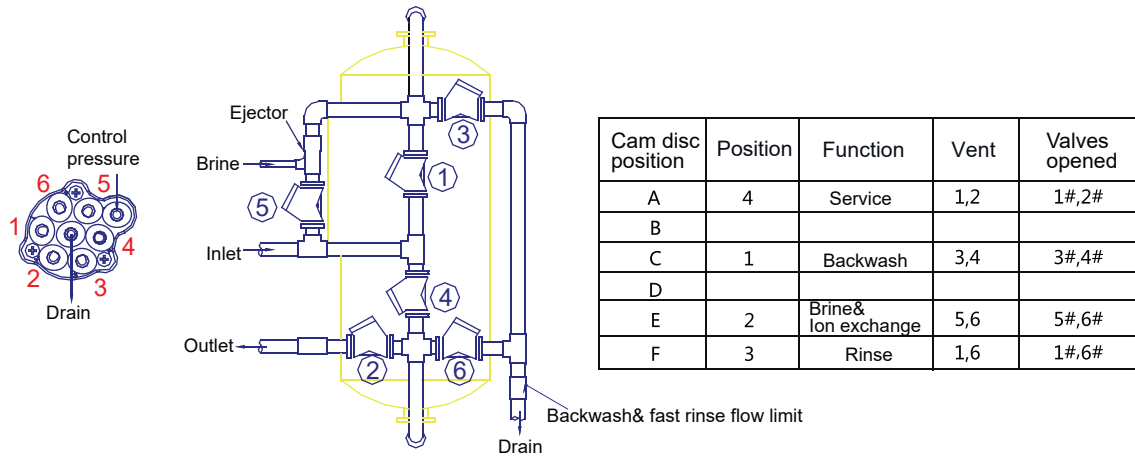


Working principle

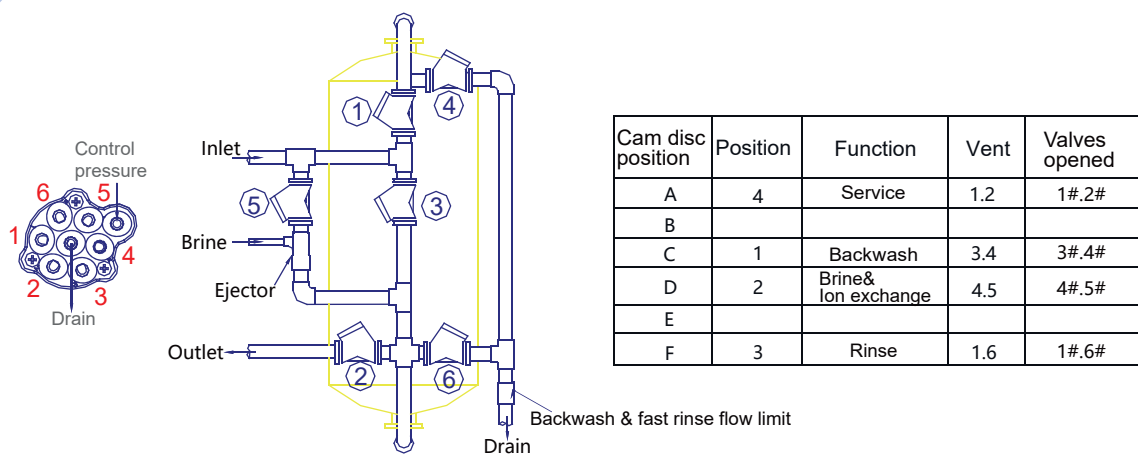


Stagers applicaion drawings of water softening systems

Cocurrent regeneration softening system(Model 48-502)

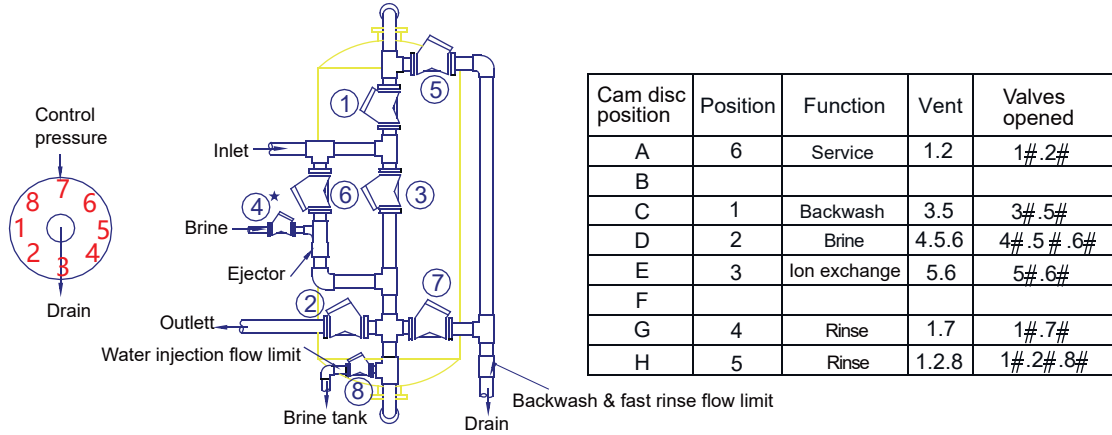


Counter current regeneration softening system(Model 48-505)

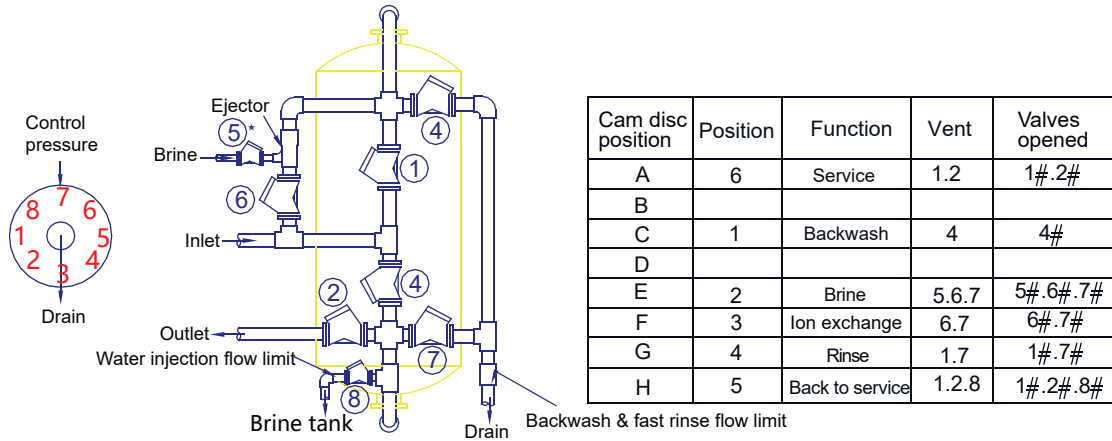




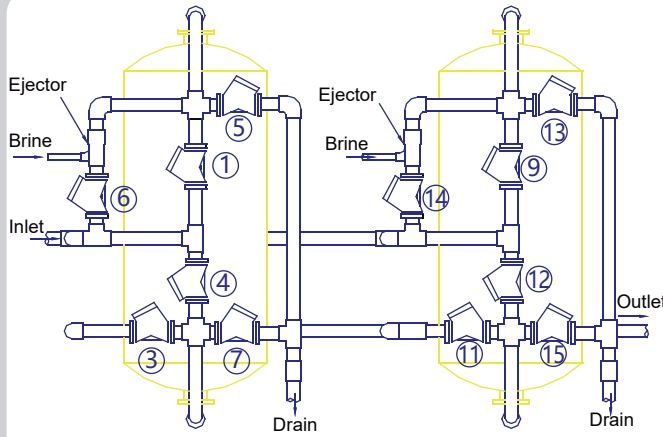
Counter current regeneration softening system (Model 51-520)



Cocurrent regeneration softening system (Model 51-524)

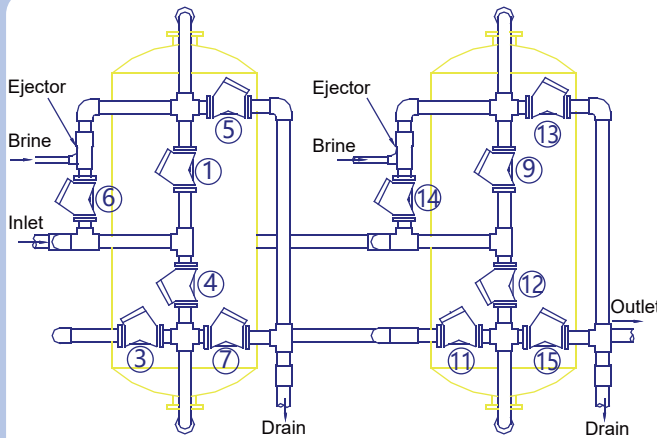


Cocurrent regeneration softening system, one in service, one in standby (Model 58-554)



Cam disc position	Position	Function	Vent	Valves opened
A	16	A service B standby	1.3.9	1.3.9
B	1			
C	2			
D	3			
E	4	A backwash B service	4.5.9.11	4.5.9.11
F	5			
G	6	A brine, slow rinse B service	6.7.9.11	6.7.9.11
H	7	A rinse B service	1.7.9.11	1.7.9.11
I	8	B service A standby	1.9.11	1.9.11
J	9			
K	10			
L	11			
M	12	B backwash A service	1.3.12.13	1.3.12.13
N	13			
O	14	B brine, slow rinse A service	1.3.14.15	1.3.14.15
P	15	B rinse A service	1.3.9.15	1.3.9.15

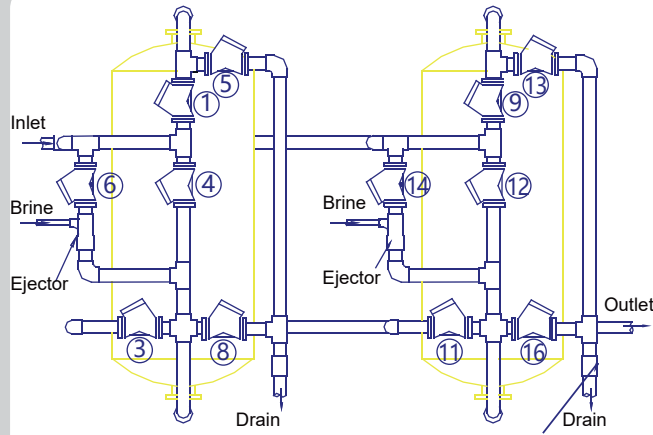
Cocurrent regeneration softening system-alternate regeneration (Model 58-555)



Cam disc position	Position	Function	Vent	Valves opened
A	16	A B service	1.3.9.11	1.3.9.11
B	1			
C	2	A backwash B service	4.5.9.11	4.5.9.11
D	3			
E	4	A brine, slow rinse B service	6.7.9.11	6.7.9.11
F	5			
G	6	A rinse B service	1.7.9.11	1.7.9.11
H	7			
I	8			
J	9			
K	10	B backwash A service	1.3.12.13	1.3.12.13
L	11			
M	12	B brine, slow rinse A service	1.3.14.15	1.3.14.15
N	13			
O	14	B rinse A service	1.3.9.15	1.3.9.15
P	15			



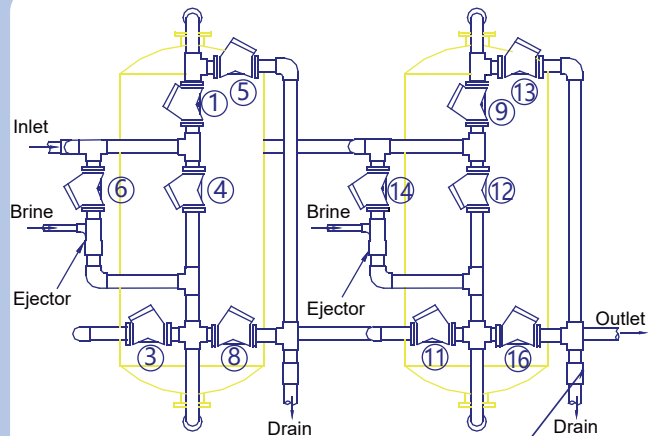
Counter current regeneration softening system- one in service, one in standby (Model 58-556)



Cam disc position	Position	Function	Vent	Valves opened
A	16	A service B standby	1.3.9	1.3.9
B	1			
C	2			
D	3	A backwash B service	4.5.9.11	4.5.9.11
E	4	A brine, slow rinse B service	5.6.9.11	5.6.9.11
F	5			
G	6			
H	7	A rinse B service	1.8.9.11	1.8.9.11
I	8	B service A standby	1.9.11	1.9.11
J	9			
K	10			
L	11	B backwash A service	1.3.12.13	1.3.12.13
M	12	B brine, slow rinse A service	1.3.13.14	1.3.13.14
N	13			
O	14			
P	15	B rinse A service	1.3.9.16	1.3.9.16

Backwash & fast rinse flow limit

Counter current regeneration softening system-alternate regeneration (Model 58-557)



Cam disc position	Position	Function	Vent	Valves opened
A	16	A B service	1.3.9.11	1.3.9.11
B	1			
C	2			
D	3	A backwash B service	4.5.9.11	4.5.9.11
E	4	A brine, slow rinse B service	5.6.9.11	5.6.9.11
F	5			
G	6			
H	7	A rinse B service	1.8.9.11	1.8.9.11
I	8			
J	9			
K	10			
L	11	B backwash A service	1.3.12.13	1.3.12.13
M	12	B brine, slow rinse A service	1.3.13.14	1.3.13.14
N	13			
O	14			
P	15	B rinse A service	1.3.9.16	1.3.9.16

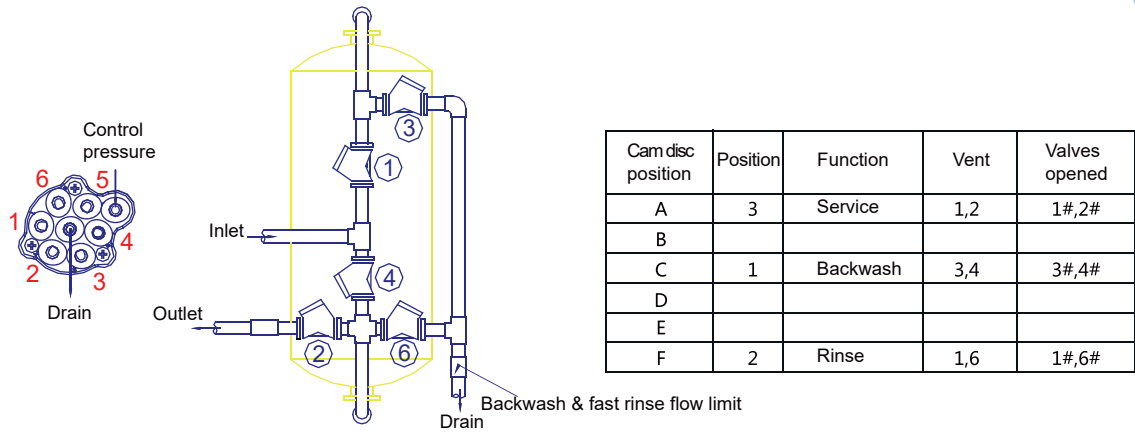
Backwash & fast rinse flow limit



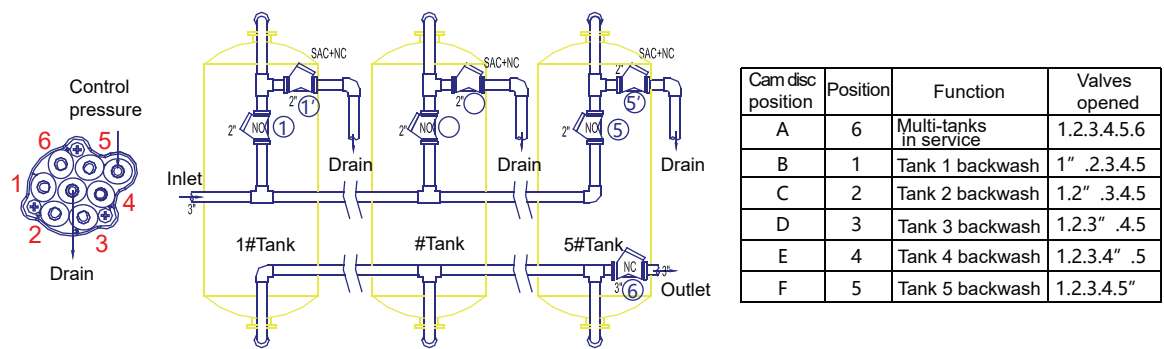
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Stagers application drawings of water filter systems

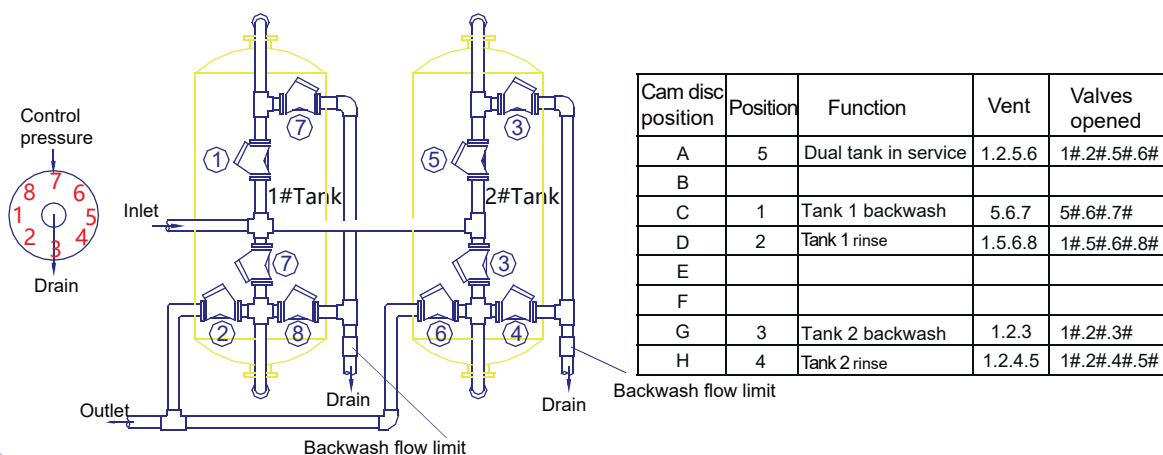
Filter system (Model 48-501)



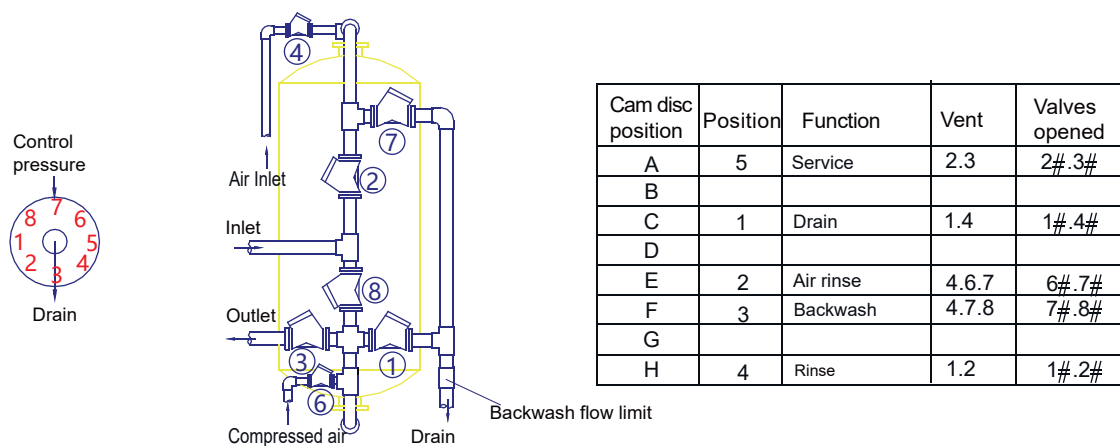
Filter system-3/4/5tanks (Model 48-508)



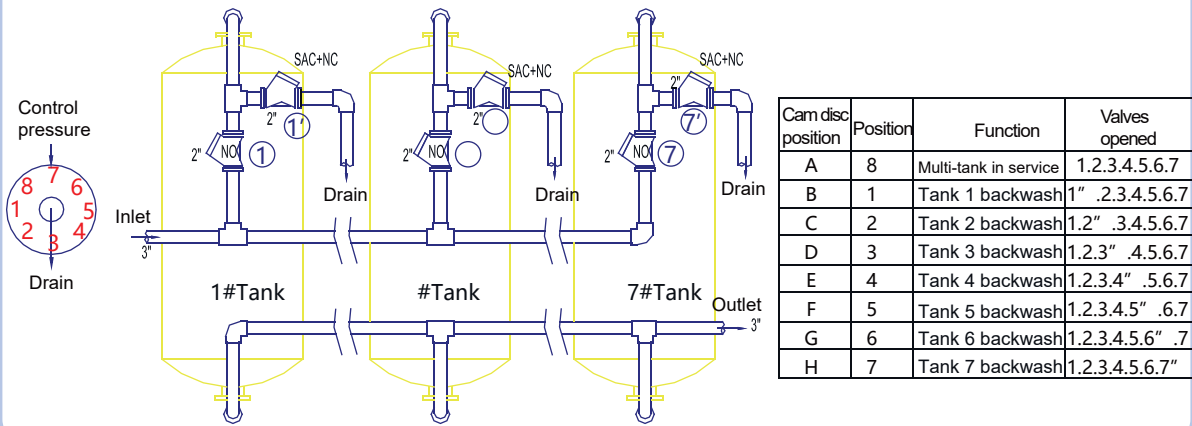
Dual tank filtration system (Model 51-527)



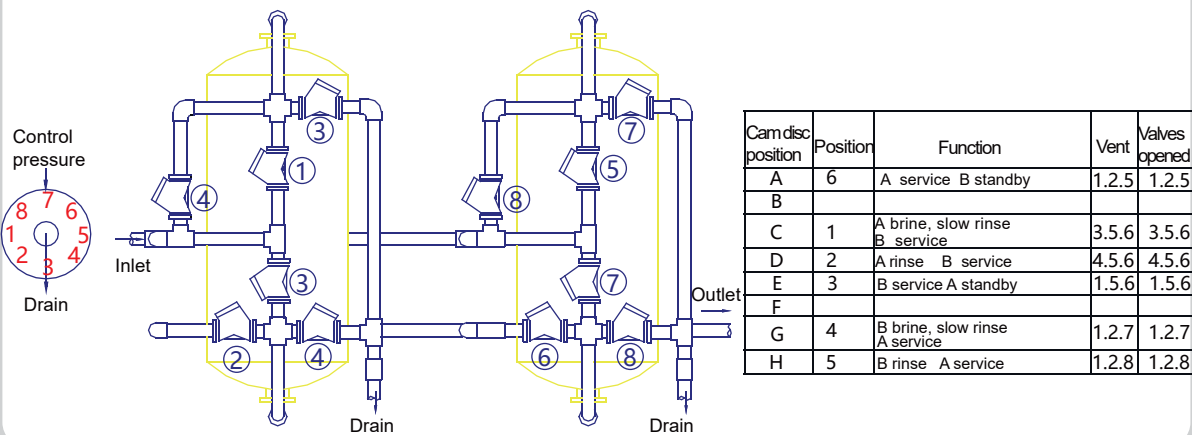
Air wash filtration system (Model 51-528)



Filter system-6/7tanks (Model 51-531)



Filter system-one in service, one in standby (Model 51-552)



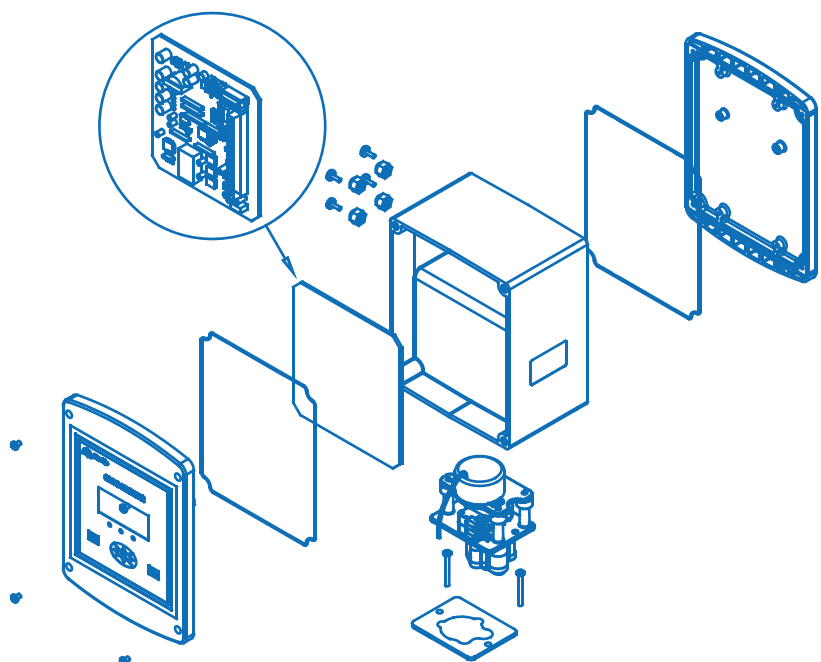


Stager controller technical parameters

Item	Parameter
Controller Model	JKA2.1 (Note: CE certification interconnected feature) JFC2.1 (Note: built-in differential pressure gauge)
Controller power frequency, power	85-250V/AC、 50/60Hz、 4W
Waterproof grade	IP54
Control pressure	0.2MPa-0.8Mpa
Working environment temperature	4-60°C
Size	174 x 134 x 237
language available	Chinese/ English

JKA2.1: Designed for multi-valve softening and filtration systems

JFC2.1: Specific designed for disc filter system



BENEFITTING
SOCIETY

DEVOTION TO
BUILD TRUST

APPLICATION





HARD WORK
BRINGS SUCCESS

SELF
DISCIPLINE



JKTT FLOW METER

JKTT Application

- Industrial flow monitoring
- Circulating cooling water flow monitoring
- Nonpotable water flow monitoring
- Flow monitoring after waste water treatment
- Flow monitoring of irrigation
- Monitoring for softening, filtration, multi-valves, and multi-port valves
- Other water flow monitoring and control

JKTT Flow Sensor Performance Compared with Similar Products

Contrast range	JKTT Flow meter	Similar Products in the Market
Measurement object	liquid	Same
Measuring range	1-5m/s design range 1-3m/s	Same
The best measurement of diameter	DN40 - DN100	Same
Measurement accuracy level	±4% can be used as a measuring instrument	±5%(outside of grade)cannot be used as a measuring instrument
Working power and output power	5-24V/DC, ≤20mA long distance transmission	9-12V/DC, ≤20mA cannot be used for long distance transmission
The longest distance of the signal transmission	Continuous pulse square wave, strong anti-interference properties	The continuous sine wave, strong anti-interference properties
Max. transmission distance	300m	60m
Impeller material	PVDF	Same