

TECHNICAL SHEET

AQUAMATIC

COMPOSITE CONTROL VALVES K52 SERIES





AQUAMATIC COMPOSITE CONTROL VALVES - K52 SERIES



TECHNICAL CHARACTERISTICS

- Y-pattern diaphragm valve, with large seat opening and high lift disc
- Separate flow and control chambers
- Separate diaphragm chambers
- All components can be serviced while the valve is in-line
- Pre-formed, stress-relieved diaphragm
- All internal parts in contact with media are made of composite, corrosion resistant materials*
- Seals material: ethylene propylene**
- Valve is compatible for 3/8- to 3-inch pipe sizes
- Adaptable to a wide variety of control devices

* Normally closed valve configurations are NOT recommended when used with corrosive fluids.

** Valves are NOT recommended for use with any aromatic, hydrocarbon-based media.

TYPICAL APPLICATIONS

Water treatment systems	Metal recovery systems
Deionizers	Process water systems
Chemical injection	Mining wastes
Desalinization	Level control systems
Evaporation	Fertilizer spray equipment
Electronic industry	Detergent and bleach handling



TECHNICAL SPECIFICATIONS

OPERATING SPECIFICATIONS

Maximum Pressure	8.6 bar (125 psi)
Maximum Temperature	60°C (140°F)
Operation	The K52 Series Valve is closed by introducing either hydraulic or pneumatic pressure to the upper diaphragm chamber. The control pressure must be equal to or greater than the line pressure. The valve is opened by relieving the pressure from the upper diaphragm chamber. The line pressure under the seat will then open the valve. The unique AquaMatic y-pattern design minimizes pressure loss in the valve.

AVAILABLE VALVE OPTIONS

Normally open (standard)

Normally closed*

Spring-assist closed

Spring-assist open

Limit stop flow control

Position indicator

* Normally closed valve configurations are NOT recommended when used with corrosive fluids.

ORDERING INFORMATION

When ordering AquaMatic K52 Series Valves, please specify:

Valve size

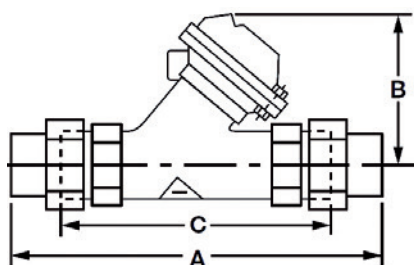
Valve options

Working pressure and temperature

Type of end connections

DIMENSIONS FOR K52 SERIES VALVES

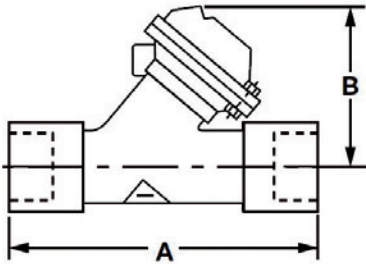
VALVE WITH UNION END CONNECTORS



Valve model	Pipe size	Units	A	B	C
K520	½ inch	mm	177.80	66.50	123.70
		inches	7.00	2.62	4.87
K521	1 inch	mm	228.60	103.10	160.30
		inches	9.00	4.06	6.31
K524	1½ inch	mm	317.50	128.50	135
		inches	12.50	5.06	9.31

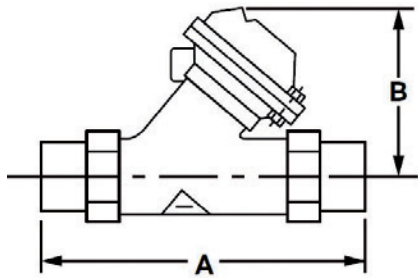


VALVE WITH FEMALE SOCKET WELD END CONNECTORS



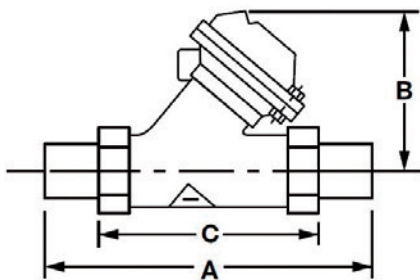
Valve model	Pipe size	Units	A	B
K524	2 inch	mm	266.70	128.50
		inches	10.50	5.06
K526	2½ inch	mm	381.00	185.70
		inches	15.00	7.31

VALVE WITH MALE SOCKET WELD END CONNECTORS



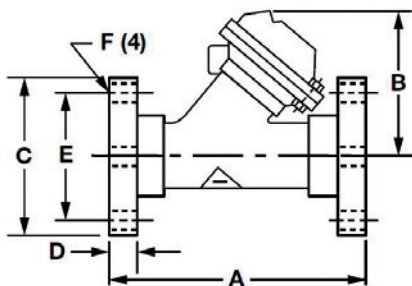
Valve model	Pipe size	Units	A	B
K524	2 inch	mm	266.70	128.50
		inches	10.50	5.06
K526	2½ inch	mm	381.00	185.70
		inches	15.00	7.31

VALVE WITH GROOVED ADAPTOR CONNECTORS



Valve model	Pipe size	Units	A	B	C
K520	½ inch	mm	177.80	66.50	99.80
		inches	7.00	2.62	3.93
K521	1 inch	mm	228.60	103.10	114.30
		inches	9.00	4.06	4.50
K524	1½ inch	mm	336.50	128.50	196.80
		inches	12.50	5.06	7.75

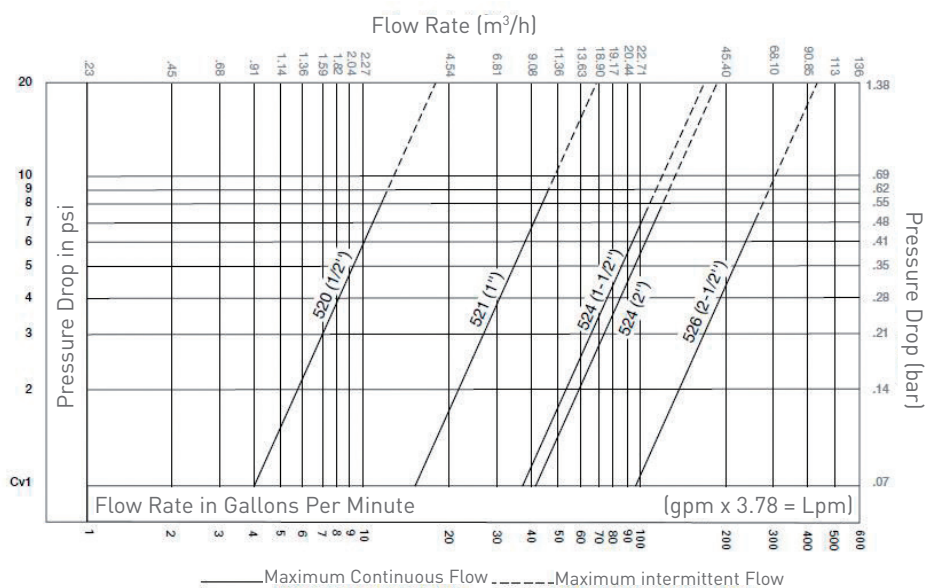
VALVE WITH FLANGED SOCKET WELD END CONNECTORS



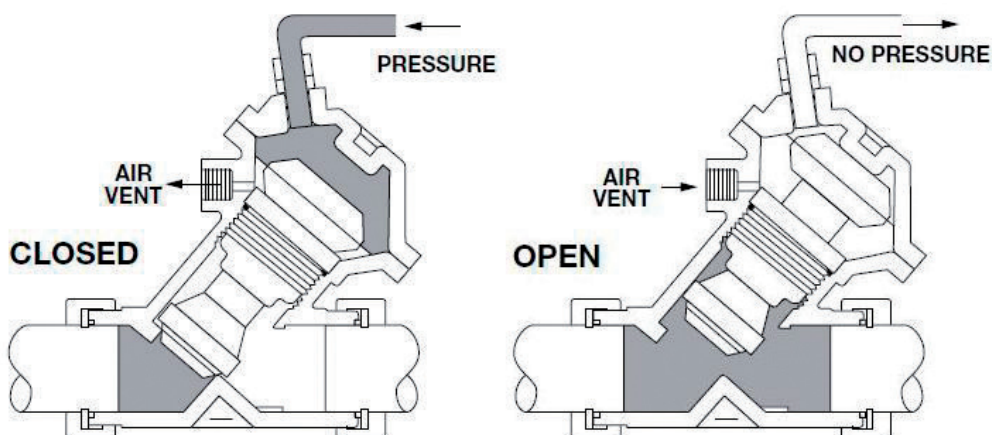
Valve model	Pipe size	Units	A	B	C	D	E	F
K524	2 inch	mm	226.60	128.50	152.40	19.05	120.85	174.80
		inches	9.00	5.06	6.00	0.75	4.75	6.88
K525	2½ inch	mm	288.80	185.70	176.30	23.90	139.70	174.80
		inches	11.37	7.31	6.94	0.94	5.50	6.88
K526	3 inch	mm	314.20	185.70	187.50	45.90	152.40	19.05
		inches	12.37	7.31	7.38	1.81	6.00	0.75



PERFORMANCE - FLOW RATE CHARACTERISTICS



*Cv = Flow rate in gpm of water @ 60°F (15.5°C) @ 1 psi (.069 bar) drop.



Contact us:

By mail

Commercial support

commercial.prfemea@pentair.com

Technical support

techsupport.water@pentair.com

Marketing support

marketing.prfemea@pentair.com

By phone

Tel. +41 21 623 69 69