

Osmonics[®]

AquaMatic® K520 Series Product Specifications — Corrosive Application Valves

AquaMatic® series K520 composite valves are designed to handle deionized water as well as acids, caustic harsh chemicals or gases that would rapidly corrode metal valves. The valves are constructed of corrosion-resistant materials, but still have all of the advantages of unparalleled AquaMatic® metal body valve design, along with their own design advantages. The K520 series valve body and cap are molded with glass-filled Noryl* thermoplastic.

■ K520 Series Features and Options

Low Pressure Loss	Y-pattern diaphragm valve, with large seat opening and high lift disc permits higher flow rates at lower pressure loss than other comparable valves.
Positive Control	Separate flow and control chambers permit positive closing without springs; and only nominal cost for spring assist opening for low-pressure and self-draining applications.
Cost-Effective Design	The K520 series valve is a cost-effective solution in initial purchase price as well as in lifetime maintenance. All components can be serviced while the valve is in-line.
Separate Diaphragm Chambers	Separate diaphragm chambers protect the valve diaphragm from the flow stream. This allows the diaphragm to be replaced without disrupting service.
Long Diaphragm Life	Pre-formed, stress relieved diaphragm minimizes fatigue, maximizes valve responsiveness and diaphragm lifetime.
Corrosion Resistant	.All internal parts in contact with media are made of composite materials. Seals are ethylene propylene for better chemical resistance**.
Pipe Sizes	.Series K520 valves are available in four different sizes, from 1/2-inch to 2-1/2-inch. A variety of available end connectors makes the valve compatible for 3/8-inch to 3-inch pipe sizes.
Design/Application Services	Optional Adjustable Flow Control

- Optional Position Indicators
- Optional Spring Assist
- Optional Seal and Diaphragm Materials for Special Applications
- Adaptable to a Wide Variety of Control Devices

Operating Specifications

- Maximum Pressure......125 PSI (8.6 bars)
- Maximum Temperature140°F (60°C)
- Operation......The K520 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)
- Spring Assist Closed
- Limit Stop Flow Control
- Optional Seals

- Normally Closed
- Spring Assist Open
- Position Indicator
- Material

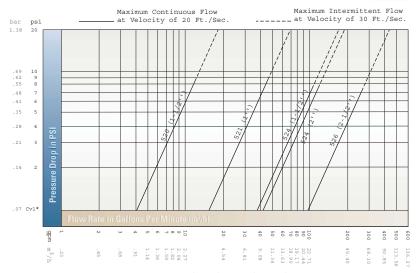
Ordering Information

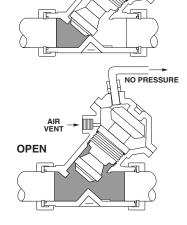
- To order the K520 series valve, Valve Size you will need to specify
- Working Pressure and Temperature
- Valve Option Type of End Connections

■ Typical Applications

- Water Treatment Systems
- Deionizers
- Chemical Injection
- Desalinization
- Evaporation
- Metal Recovery Systems
- Process Water Systems
- Mining Wastes
- Level Control Systems
- Fertilizer Spray Equipments
- Electronic Industry
- Detergent and Bleach Handling
- * Noryl is a trademark of General Electric Company.
- **Valves are **NOT** recommended for use with any aromatic hydrocarbon based media.

■ Flow Capabilities of K520 Plastic Diaphragm Valves

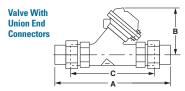




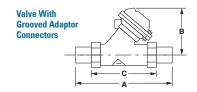
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PRESSURE

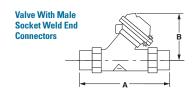
■ Dimensions for K520 Series Valves



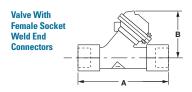
Valve Series	Units	Length A	Height B	Length C
K520	inches mm	7.00 177.8	2.62 68.5	4.87 123.7
K521	inches mm	9.00 228.6	4.06 10.31	6.31 160.3
K524	inches mm	12.50 317.5	5.06 128.5	9.31 23.5



Valve Series	Units	Length A	Height B	Length C	
K520	inches mm	7.00 177.8	2.62 65.5	3.93 99.8	
K521	inches mm	9.00 228.6	4.06 103.1	4.50 114.3	
K524	inches mm	13.25 336.5	5.05 128.5	7.75 196.8	

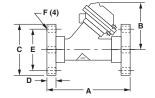


Valve Series	Pipe Size	Units	Length A	Height B	
K524	2"	inches mm	10.50 266.7	5.06 128.5	
K526	2-1/2"	inches mm	15.00 381.0	7.31 185.7	



Valve Series	Pipe Size	Units	Length A	Height B
K524	2"	inches mm	10.50 266.7	5.06 128.5
K526	2-1/2"	inches mm	15.00 381.0	7.31 185.7

Valve With Flanged Socket Weld End Connectors



Valve Series	Pipe Size	Units	Length A	Height B	Dia. C	Thk. D	B.C. Dia. E	Dia. F	
K524	2"	inches mm	9.00 226.6	5.06 128.5	6.00 152.4	.75 19.05	4.750 120.85	.688 17.48	
K526	2-1/2"	inches mm	11.37 288.8	7.31 185.7	6.94 176.3	.94 23.9	5.500 139.7	6.88 17.48	
K526	3"	inches mm	12.37 314.2	7.31 185.7	7.38 187.5	1.81 185.7	6.000 152.4	.750 19.05	

For More Information:

Call Osmonics at (815) 964-9421 or (800) 245-9421, or visit www.osmonics.com



OSMONICS

North American Sales 2412 Grant Avenue Rockford, IL

61103-3991 USA (815) 964-9421 Phone

(815) 964-4449 Fax

Euro/Africa Operations

230 rue Robert Schurman ZA des Uselles F-77350 Le Mée sur Seine **FRANCE** +33 1 64 10 2000 Phone

+33 1 64 10 3747 Fax

Asia/Pacific Operations

1044/8 SOI 44/2 Sukhumvit Road Parkanog Bangkok 10110 THAILAND +66 2 38 14213 Phone +66 2 39 18183 Fax

^{*}Cv=Flow rate in GPM of water @ 60°F (15.5°C) @ 1 PSI (.069 bar) drop.