# VALVES





# AQUAMATIC K52 SERIES COMPOSITE DIAPHRAGM VALVES

AquaMatic K52 Series Composite Diaphragm Valves with glass-filled thermoplastic body and cap are designed for water treatment applications including those requiring acids, and harsh caustic chemicals that would rapidly corrode metal valves. Their unique Y-pattern design with a large seat opening and high lift disc permits higher flow rates at lower pressure loss than competitive valves. This product is manufactured in the USA with foreign and domestic parts.

#### **Features and Benefits**

- All components can be serviced while the valve is inline
- Separate flow and control chambers permit positive closing without springs
- Reinforced diaphragms are pre-formed and stress relieved to maximize responsiveness and product life
- Diaphragm acts as an actuator, eliminating the need for electric or pneumatic actuators
- All internal parts in contact with media are made of composite materials \*
- Seals are ethylene propylene for better chemical resistance \*\*
- Available in sizes from 1/2 to 2-1/2 inch
- A variety of end connectors are available to make the valve compatible in pipe sizes from 3/8 to 3 inch
- 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**

- Chemical Injection
- Deionizers
- Desalinization
- Detergent and Bleach Handling
- Electronic Industry
- Evaporation
- Fertilizer Spray Equipment
- Level Control Systems
- Metal Recovery Systems
- Mining Wastes
- Process Water Systems
- Water Treatment Systems

## **Operating Specifications**

Max Pressure.......... 125 psi (8.6 bar)

Max Temperature.....140°F (60°C)

**NOTE:** IAPMO R&T NSF/ANSI 61 and NSF/ANSI 372 certifications are limited to restrictions below. Other options were not tested for certification.

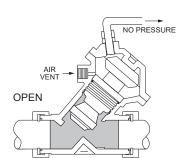
Cold water applications below 73°F (23°C).

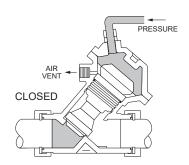
Normally Open valves.

EPDM seal material (seal option #1).

#### **Options**

- Normally open (standard)
- · Normally closed
- Spring-assist closed
- Spring-assist open
- Limit stop for flow control
- · Position indicator
- Seal and diaphragm materials for special applications





#### Certified by

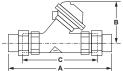
IAPMO R&T to NSF/ANSI 61 and NSF/ANSI 372 for lead free compliance.



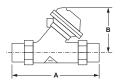
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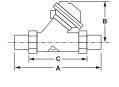


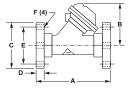
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**Union End Connectors** 

Female Socket Weld **End Connectors** 

Male Socket Weld **End Connectors** 

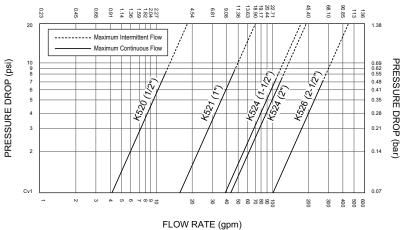
**Grooved Adapter End Connectors** 

Flanged End Connectors

#### **Dimensions and Weights**

Model Number	Pipe Size	С٧	End Connector Style	Approximate Dimensions						Approx.
				Α	В	С	D	E	F	Weight
K520	1/2" (15 mm)	4.0 (3.5 Kv)	Union	7.00" (178 mm)	2.62" (66.5 mm)	4.87" (124 mm)	_	_	_	1 lb (0.5 kg)
K521	1" (25 mm)	15.0 (13.0 Kv)	Union	9.00" (229 mm)	4.06" (103 mm)	6.31" (160 mm)	_	_	_	1 lb (0.5 kg)
K524	1-1/2" (40 mm)	38.0 (32.8 Kv)	Union	12.50" (318 mm)	5.06" (129 mm)	9.31" (236 mm)	_	-	_	2 lb (0.9 kg)
K524	2" (50 mm)	41.0 (35.5 Kv)	Socket Weld	10.50" (267 mm)	5.06" (129 mm)	_	_	_	_	2 lb (0.9 kg)
K526	2-1/2" (65 mm)	100.0 (86.5 Kv)	Socket Weld	15.00" (381 mm)	7.31" (186 mm)	_	_	_	_	6 lb (2.7 kg)
K520	1/2" (15 mm)	4.0 (3.5 Kv)	Grooved Adapter	7.00" (178 mm)	2.62" (66.5 mm)	3.93" (100 mm)	_	_	_	1 lb (0.5 kg)
K521	1" (25 mm)	15.0 (13.0 Kv)	Grooved Adapter	9.00" (229 mm)	4.06" (103 mm)	4.50" (114 mm)	_	_	_	1 lb (0.5 kg)
K524	1-1/2" (40 mm)	38.0 (32.8 Kv)	Grooved Adapter	13.25" (337 mm)	5.06" (129 mm)	7.75" (197 mm)	_	_	_	2 lb (0.9 kg)
K524	2" (50 mm)	41.0 (35.5 Kv)	Flanged	9.00" (229 mm)	5.06" (129 mm)	6.00" (152 mm)	0.75" (19.1 mm)	4.75" (121 mm)	0.69" (17.5 mm)	2 lb (0.9 kg)
K526	2-1/2" (65 mm)	100.0 (86.5 Kv)	Flanged	11.37" (289 mm)	7.31" (186 mm)	6.94" (176 mm)	0.94" (23.9 mm)	5.50" (140 mm)	0.69" (17.5 mm)	6 lb (2.7 kg)
K526	3" (80 mm)	100.0 (86.5 Kv)	Flanged	12.37" (314 mm)	7.31" (186 mm)	7.38" (187 mm)	1.81" (46.0 mm)	6.00" (152 mm)	0.75" (19.1 mm)	6 lb (2.7 kg)

#### FLOW RATE (m3/hr)



 $lpm = gpm \times 3.38$ 

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