

NYLON AND PVC VALVES

HIGH FLOW, LOW FRICTION LOSS AND MINIMUM SERVICING FOR A BROAD RANGE OF APPLICATIONS



MANUAL NYLON THREADED VALVE



PRESSURE REDUCING ELECTRIC NYLON THREADED VALVE



MANUAL PVC SLIP VALVE



PRESSURE REDUCING PVC THREADED VALVE

PRODUCT ADVANTAGES

- Superb hydraulic performance.
- Simple design with only one moving component, the diaphragm, means parts are not located in the water passage way.
- Low operating pressure.
- Simple inline installation with minimal maintenance requirements for maximum dependability.
- Durable, corrosion-resistant materials provide high resistance to corrosive water containing fertilizers and chemicals.
- Nylon valves have threaded connections.
- PVC valves have threaded or socket (slip) connections allowing pipes to be cemented into the valves.

APPLICATIONS

- Headworks assemblies for use in advanced treatment wastewater drip dispersal systems
- Ideal for water control in all piping networks
- Above or below grade installations
- Remote control irrigation for master valves and automated or manual operations
- Nylon valves are ideal for mild corrosive and acidity levels in the water
- PVC Valves are ideal for higher corrosive and acidity levels in the water

SPECIFICATIONS

- Recommended Operating Pressure (psi):
Nylon - 12 minimum to 145 maximum
PVC - 12 minimum to 115 maximum (based on valve size - see chart)
- Maximum Water Temperature: 140° F
- Optional Functions:
Manual, Electric, Pressure Reducing, Pressure Sustaining

MATERIALS

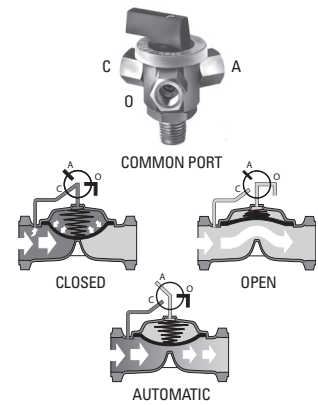
- Nylon Valve Body, Bonnet, Seat: Glass Reinforced Polyamide (GRP)
- PVC Valve Body: uPVC
- Spring: Stainless Steel (AISI 302)
- Nuts, Bolts, Washers: Zinc Coated Steel (BS 5216)
- Diaphragm: Natural Rubber
- Connections:
Threaded - ANSI (NPT Female)
Socket - IPS, PVC Standard

AVAILABLE MODELS & SIZES

	MATERIAL	NYLON		PVC	
		CONNECTION	THREADED	THREADED	SLIP
SIZES	1"		X	-	-
	1 ½"		X	-	-
	2"		X	-	-
	323		X	-	-
	3"		-	X	X
	4"		-	-	X
6"		-	-	X	

MANUAL VALVE OPERATION WITH A 3-WAY SELECTOR

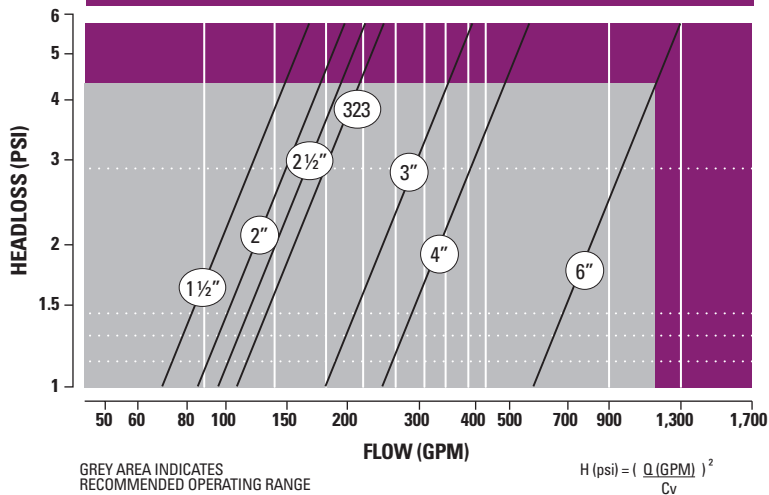
- **CLOSED (C):** Upstream pressure or pressure from an external source is applied to the control chamber. Initiated by the spring, the diaphragm is pressed down to close the valve drip-tight.
- **OPEN (O):** Relieving the water or air pressure to the atmosphere from the control chamber causes the valve to open.
- **AUTOMATIC (A):** The automatic port of the 3-Way selector is connected to a solenoid, hydraulic relay or pilot which controls the valve. The common port of the 3-Way selector connects the control chamber to either A, O or C, depending on the direction the selector is pointed.



3-WAY CONTROL VALVES

The 3-Way control valve only ports water (or air) into the control chamber to close the valve or releases it from the control chamber to open the valve. This non-continuous porting technique allows for full opening of the main valve when operating conditions require the valve to be fully open.

FLOW RATE VS. PRESSURE LOSS



SPECIFICATIONS

SIZE	MAX. FLOW (GPM)	Cv	OPERATING PRESSURE (psi) *
1"	44	18	12 - 115
1 1/2"	110	66	12 - 145
2"	176	83	12 - 145
323	176	103	12 - 145
3"	396	175	12 - 115
4"	440	250	12 - 115
6"	1,540	554	12 - 145

* Low Pressure Diaphragms also available

DIMENSIONS & WEIGHT

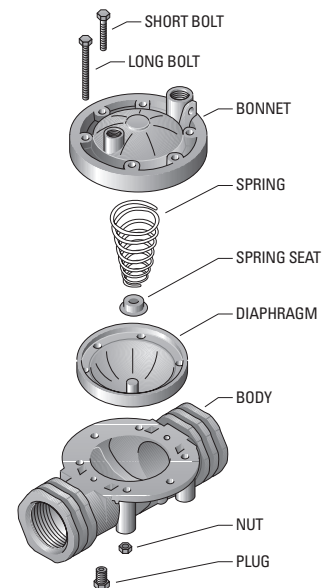
SIZE/CONNECTION	LENGTH	HEIGHT	WEIGHT *
1" NYLON THREADED	4 7/8"	2 7/8"	0.4 LBS.
1 1/2" NYLON THREADED	7 3/8"	4 3/8"	2.0 LBS.
2" NYLON THREADED	7 7/8"	4 3/8"	2.2 LBS.
323 NYLON THREADED **	9 1/4"	4 3/4"	3.1 LBS.
3" PVC THREADED	10 1/8"	7 5/8"	9.3 LBS.
3" PVC SLIP	10 1/8"	7 5/8"	9.3 LBS.
4" PVC SLIP	11"	8"	9.5 LBS.
6" PVC SLIP	14"	15"	20 LBS.

* Weight for Basic Valve

** Refers to a 2" Valve body with a 3" inlet and outlet

ORDERING INFORMATION

REFER TO WASTEWATER PRICE LIST FOR ORDERING INFORMATION FOR 3-WAY VALVES



NYLON VALVE SHOWN

VALVE INSTALLATION TIPS

- **THREADED VALVES:** Use a few layers of Teflon sealer compound on the adapter and tighten by hand. Use a wrench to tighten the adapter another half revolution.
- **SOCKET OR 'SLIP' VALVE WITH PVC PIPE:** Use the same procedure as when cementing PVC pipes. Mark the pipe first, then apply glue to the socket of the valve and the PVC pipe. Insert the pipe until reaching the mark and rotate a quarter turn. Hold the joint in place until the cement hardens.
- **INSTALLATION ABOVE GROUND:** When installing a manifold above ground, the length of the manifold should be kept as short as possible (this eliminates the need for additional support). For longer lengths, a firm support under the horizontal pipes is recommended. Always install the valve with the bonnet exposed to the sun.

2-WAY ELECTRIC VALVES

PRODUCT ADVANTAGES

- Durable, glass reinforced nylon construction provides superb hydraulic performance.
- Large internal water passage with no moving parts in the flow path prevents clogging.
- Built-in 2-Way Solenoid with low power requirement for ease of operation and reliability.
- Simple installation either vertically or horizontally.
- High resistance to corrosive water containing fertilizer and chemicals.
- Standard with a flow control (throttling) handle.



1" ELECTRIC PBI THROTTLING NYLON VALVE



323 ELECTRIC PBI THROTTLING NYLON VALVE

APPLICATIONS

- Ideal for mild corrosive and mild acidity levels in the water

SPECIFICATIONS

- Available Sizes: 1", 1 1/2", 2" and 323
- Maximum Working Pressure: 1" - 115 psi and 2" to 323 - 150 psi
- Maximum Water Temperature: 140° F
- Connections: Female Threaded NPT
- Electrical Specifications: Voltage - Standard 24 VAC, 60 Hz
Inrush Current - 29mA
Holding Current - 14mA
Allowable Voltage Variation: 10%

2-WAY CONTROL VALVES

The 2-Way control valve continuously ports water into and from the control chamber, making it an excellent choice when a very accurate and sensitive regulation performance is required. The 2-Way valves may be used with clean water when a minimal pressure difference is allowed and a fast, accurate response is required.

MATERIALS

- Body and Bonnet: Glass Reinforced Nylon
- Spring: Stainless Steel (AISI 302)
- Nuts, Bolts, Washers: Stainless Steel (304)
- Diaphragm: Natural Rubber

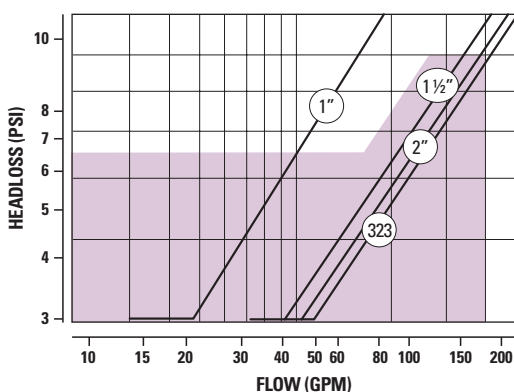
DIMENSIONS & WEIGHT

SIZE	LENGTH	HEIGHT	WEIGHT
1"	4 7/8"	4 7/8"	.5 LBS.
1 1/2"	7 3/8"	6"	2.0 LBS.
2"	7 7/8"	6"	2.2 LBS.
323	9 1/4"	6 5/8"	3.1 LBS.

FLOW RANGE

SIZE	GPM
1"	1 - 50
1 1/2"	1 - 125
2"	1 - 175
323	1 - 225

FLOW RATE VS. PRESSURE LOSS



LIGHT PURPLE AREA INDICATES RECOMMENDED OPERATING RANGE.

ORDERING INFORMATION

SIZE	ITEM NUMBER	MODEL NUMBER
1"	71610-014015	61ET1PBI-BC
1 1/2"	71610-014040	61ET1.5PBI2-BC
2"	71610-014507	61ET2PBI2-BC
323	71610-015202	61ET323PBI2-BC

SOLD IN CASE QUANTITIES AND 24VAC ONLY
 1" CASE QUANTITY = 20
 1 1/2" AND 2" CASE QUANTITY = 8
 323 CASE QUANTITY = 4

SERIES 80 2-WAY ELECTRIC VALVES

PRODUCT ADVANTAGES

- Suitable for high pressure applications with quick reaction to opening and closing.
- Exceptionally low inrush and holding current allows the longest wire run from valve to controller.
- Quick reaction to opening and closing and a drip-tight seal for accurate irrigation.
- Stable solenoid to voltage fluctuations with low sensitivity to dirt - no diode solenoid.
- Integrated check valve ensures valve remains closed until the controller designates opening.
- Flow control stem allows manual control from full closure up to maximum capacity.

APPLICATIONS

- Ideal for mild corrosive and mild acidity levels in the water

SPECIFICATIONS

- Recommended Flow Ranges:
 ¾" valve - .01 to 26 GPM
 1" valve - .01 to 44 GPM
 1 ½" valve - .25 to 110 GPM
 2" valve - .25 to 176 GPM
- Valve Configurations:
 ¾" & 1" valves - Globe
 1 ½" & 2" valves - Globe or Angle
- Minimum Operating Pressure: 7 psi
- Maximum Operating Pressure: 150 psi
- Maximum Water Temperature: 140° F
- Standard Solenoid Voltage: 24VAC ± 10% voltage
- Solenoid Inrush Current: .22A
- Solenoid Holding Current: .095A

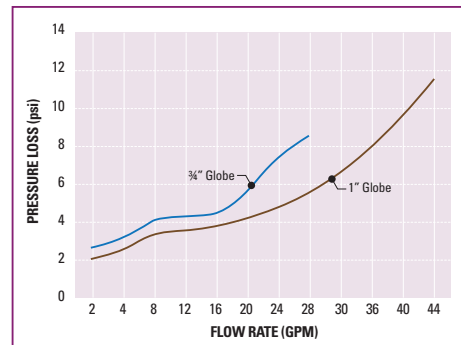
MATERIALS

- Body, Bonnet, Diaphragm Seat: Glass Reinforced Polyamide (GRP)
- Nuts, Bolts, Washers: Stainless Steel 304
- Spring: Stainless Steel AISI 302

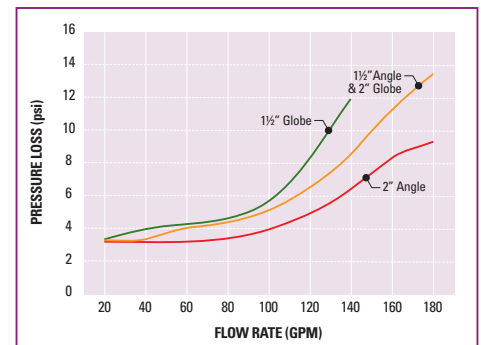


1 ½" & 2" ANGLE
SERIES 80 2-WAY

¾" & 1" FLOW RATE VS. PRESSURE LOSS



1 ½" & 2" FLOW RATE VS. PRESSURE LOSS



DIMENSIONS & WEIGHT

SIZE	LENGTH	WIDTH	HEIGHT	WEIGHT
¾" GLOBE	3 15/16"	3"	4 3/8"	.62 LBS
1" GLOBE	4 1/8"	3"	4 1/2"	.64 LBS
1 ½" GLOBE	6 9/16"	6 1/2"	6 3/8"	2 LBS
1 ½" ANGLE	3 1/2"	6 1/2"	6 13/16"	1.8 LBS
2" GLOBE	6 9/16"	6 1/2"	6 5/8"	2 LBS
2" ANGLE	3 1/2"	6 1/2"	6 13/16"	1.8 LBS

ORDERING INFORMATION STANDARD 24VAC VALVES

VALVE SIZE	ITEM NUMBER	MODEL NUMBER
¾" GLOBE	00135-000995	LVET.75GH2
1" GLOBE	00135-001005	LVET1GH2
1 ½" GLOBE	00135-001015	LVET1.5GH2
1 ½" ANGLE	00135-001016	LVET1.5GH2-AN
2" GLOBE	00135-001025	LVET2GH2
2" ANGLE	00135-001026	LVET2GH2-AN



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