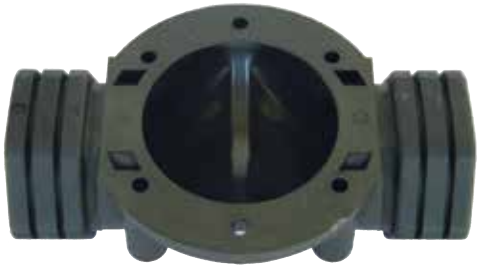
Benefits

Simplicity - Only 4 parts:

Body



Diaphragm

Spring*

Bonnet

*For 3 way models only

End Connections Options:

BSP; NPT - Thread $^{3}/_{4}$"- 3"
(20mm-80mm)

PVC Connection 2"
(50mm)

Universal Flange 3", 4"R
(80mm, 100mmR)

Versatility

Manual throttling

Built-in Solenoid

Flexible Diaphragm

- Trouble-free open-close as well as regulating operation even with raw water (with high rate of solids and impurities) conduction
- Excellent Regulation capabilities, including at Zero Flow conditions
- Extremely wide water pass-through cross sections

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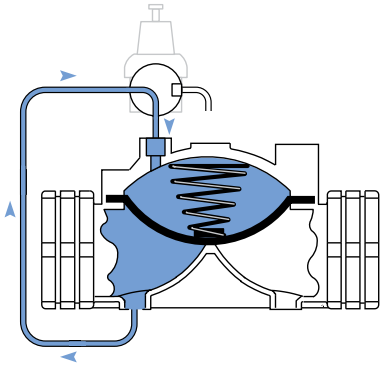
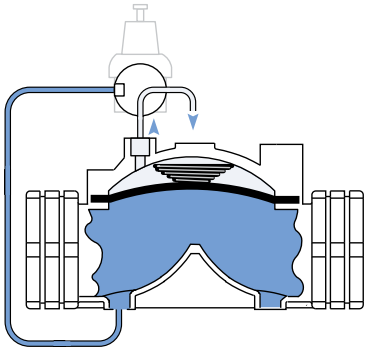
3 Way Control

Closed mode



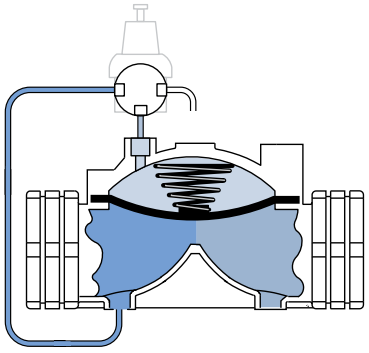
When inlet pressure is applied to the control chamber the valve closes drip-tight.

Open mode



When the operating pressure is relieved from the control chamber, the line pressure at the valve inlet opens the valve.

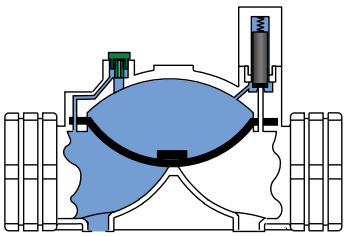
Modulating mode



The position of the diaphragm is dictated by the volume of water in the control chamber, which is regulated by the pilot valve in order to maintain a preset pressure value.

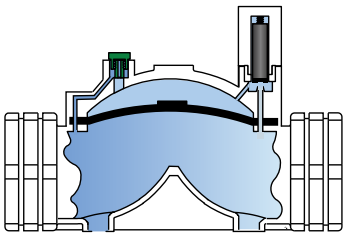
2 Way Electric-Control

Closed mode



A solenoid operator plugs the control chamber's outlet. A permanent connection from the upstream through a labyrinth restriction ensures line pressure into the chamber closing the valve.

Open mode

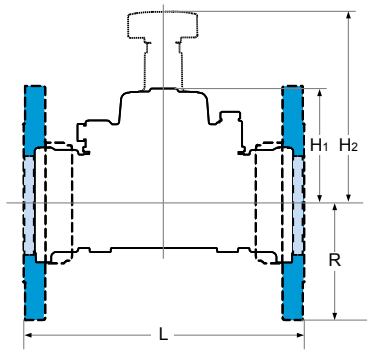


Energizing the solenoid operator opens a drain to the downstream, allowing the valve to open.

Diameter Range: 3/4" - 4"R

Dimensions

Dimension			20mm 3/4"	25mm 1"	35mm 1 1/2"	50mm 2"	50mm 2"	65mm 2 1/2"	80mmR 3"R	80mm 3"	80mm 3"	100mmR 4"R
Height	H1	mm / inch	38 / 1 1/2	38 / 1 1/2	67 / 2 5/8	67 / 2 5/8	67 / 2 5/8	67 / 2 5/8	67 / 2 5/8	100 / 3 15/16	100 / 3 15/16	100 / 3 15/16
	H2	mm / inch	100 / 4	100 / 4	112 / 4 3/8	112 / 4 3/8	112 / 4 3/8	112 / 4 3/8	112 / 4 3/8	180 / 7 1/8	180 / 7 1/8	180 / 7 1/8
	R	mm / inch	18 / 11/16	22 / 13/16	30 / 1 3/16	37 / 1 1/2	37 / 1 1/2	47 / 1 7/8	54 / 2 1/8	60 / 2 3/8	100 / 3 15/16	110 / 4 5/16
Length	L	mm / inch	113 / 4 1/2	124 / 4 7/8	188 / 7 3/8	199 / 7 7/8	247 / 9 11/16	228 / 9	236 / 9 1/4	260 / 10 1/4	290 / 11 7/16	290 / 11 7/16
Vol.control chamber		cc / gal	36 / 0.01	36 / 0.01	180 / 0.04	180 / 0.04	180 / 0.04	180 / 0.04	180 / 0.04	250 / 0.05	250 / 0.05	250 / 0.05
Weight		kg / lbs	0.2 / 0.44	0.2 / 0.44	0.9 / 2	0.9 / 2	1.3 / 2.8	1.2 / 2.6	1.4 / 3.1	1.8 / 4.4	3 / 6.8	4 / 8.8



PVC Connection

Flanged

Hydraulic performance:

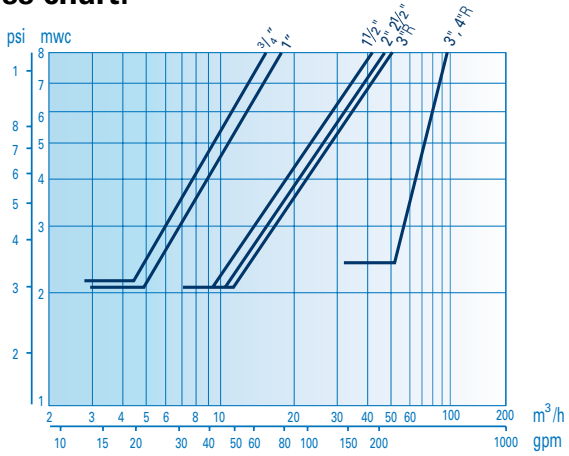
Valve Size	mm inch	20mm 3/4"	25mm 1"	35mm 1 1/2"	50mm 2"	65mm 2 1/2"	80mmR 3"R	80mm 3"	100mmR 4"R
Max. recommended flow rate for continuous operation	m³/hr	6	10	25	40	65	90	100	145
	gpm	26	44	110	176	285	396	440	640
Min. recommended flow rate	m³/hr	>1							
	gpm	>5							
Flow rate factor	Kv (metric)	7.5	15	60	71	79	90	120	120
	Cv (US)	9	17.5	70	82	92	92	140	140
Pressure range	meter	9 * - 80		7 * - 100				4 - 100	
	psi	15 * - 115		15 * - 150				6 - 145	

*** Low pressure diaphragms -** minimal opening pressure: 3/4" - 1" : 6 meter / 9 psi
1 1/2" - 3" : 3.5 meter / 5 psi

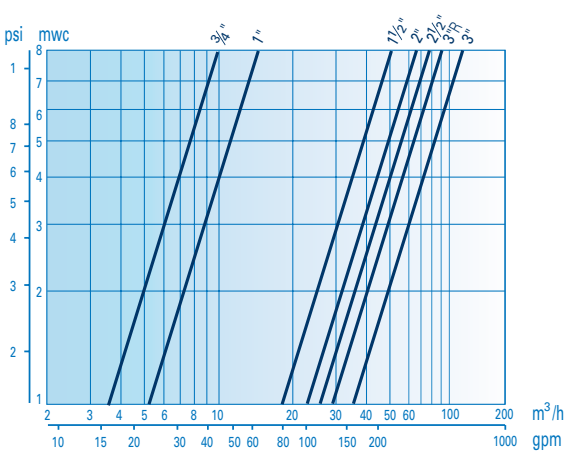
Maximum operating temperature: 60°C (140°F)

Head loss chart:

2-W



3-W



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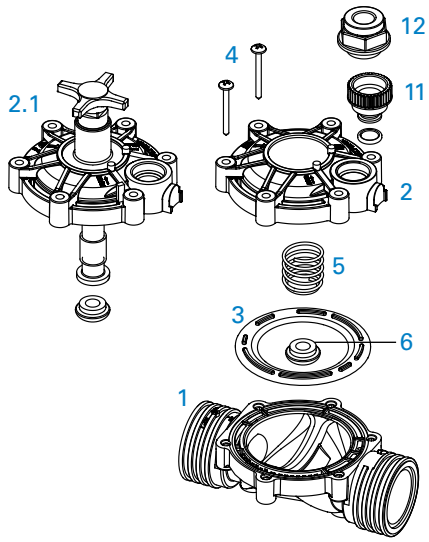
Parts and Materials

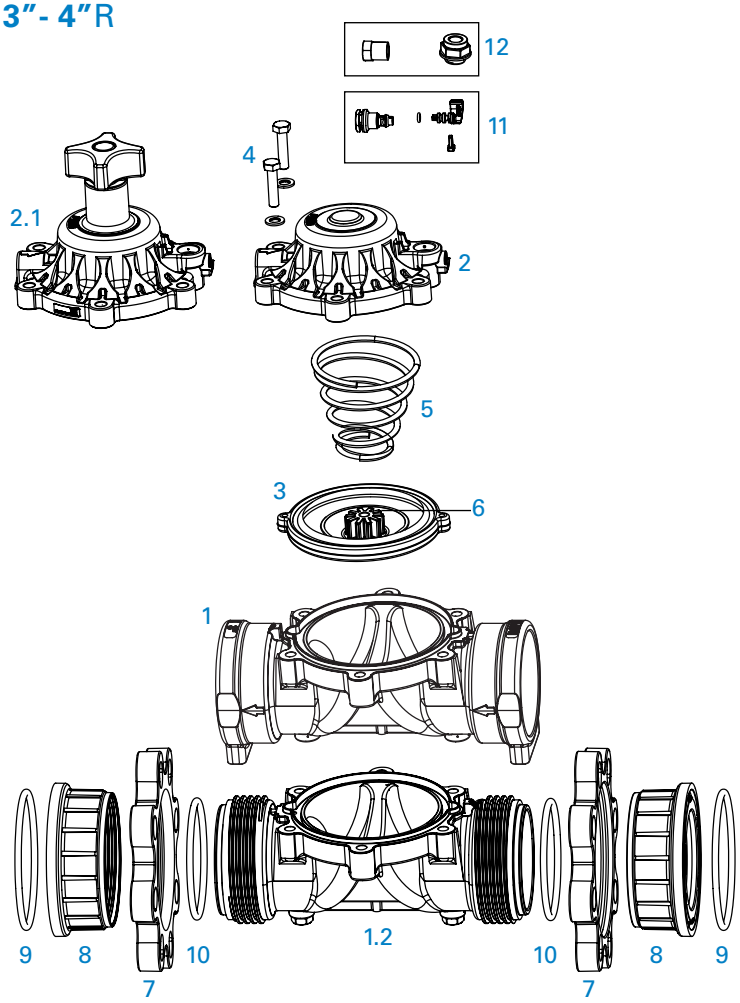
Diameter Range: 3/4" - 4"R

	Part	Standard	Optional
1	Body	GRP	Polypropylene PP
1.1	Body - 2 way	GRP	Polypropylene PP
1.2	Body for flange connections	GRP	Polypropylene PP
2	Bonnet	GRP	Polypropylene PP
2.1	Bonnet with throttling handle	GRP	Polypropylene PP
3	Diaphragm	NR	ALD, EPDM
4	Bolts and washers	SST 304	SST 316
5	Spring	SST 302	SST 316
6	Spring disc	GRP	Polypropylene PP
7	Flange	3"- Plastic	Aluminium
		4"- Plastic	
8	Flange adapter	PA-GF	
9	O-ring No. 2-347	NBR	
10	O-ring No. 2-342	NBR	
11	2 way adaptors	GRP	Polypropylene PP
12	3 way adaptors	GRP	Polypropylene PP

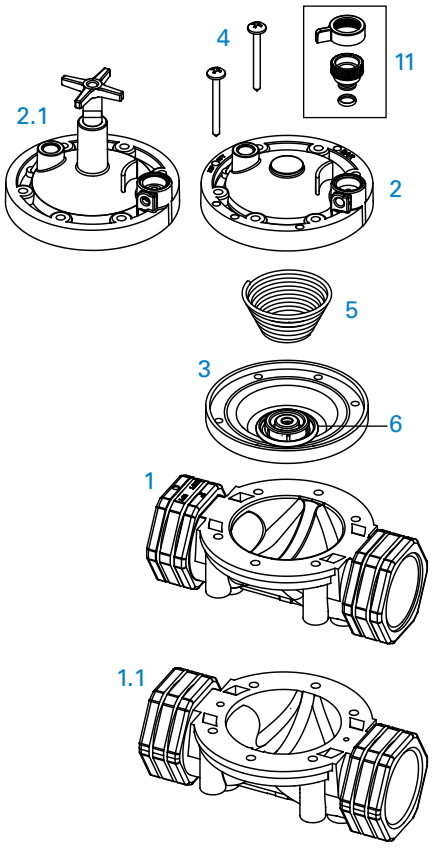
3/4"- 1"



3"- 4"R



1 1/2"- 3"R



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Typical Applications

PR

PR/RC

PR/PS

ELD3

ED2

75P - EL Mining

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