



75 SERIES - REINFORCED NYLON CONTROL VALVES

The strong and versatile plastic valves of 75 series, exhibit exceptional hydraulic characteristics and provide optimal control of irrigation systems

APPLICATIONS

Control valve series (¾" – 6"R) designed to operate and protect irrigation networks in field crops, vineyards, orchards, and greenhouses

BENEFITS

- **Outstanding performances**
High flow capacity and very low head losses achieved by a flexible diaphragm that provides a wide water passage throughout the valve's hydrodynamic body
- **Ultimate durability**
Long life and easy inline maintenance accomplished by structural simplicity and high-quality corrosion-free materials
- **Extremely versatile**
Gal plastic valves are available with full selection of control functions and various end connections

TECHNICAL SPECIFICATIONS

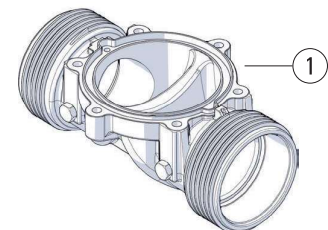
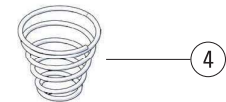
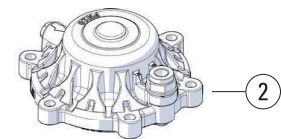
- Maximum pressure – 10 bar (145 psi)
- Minimum recommended flow – 1 m³/h (5 gpm)
- Minimum operating pressure – 0.4 bar (6 psi)
- Maximum operating temperature – 70°C (160F)

PARTS AND MATERIALS

#	Part	Standard	Optional*
1	Body	Reinforced nylon	Polypropylene
2	Bonnet	Reinforced nylon	Polypropylene
3	Diaphragm**	Natural rubber	ALD, EPDM
4	Spring	SST 302	SST 316

* Optional parts for special chemical resistance

** Wide selection of pressure ranges





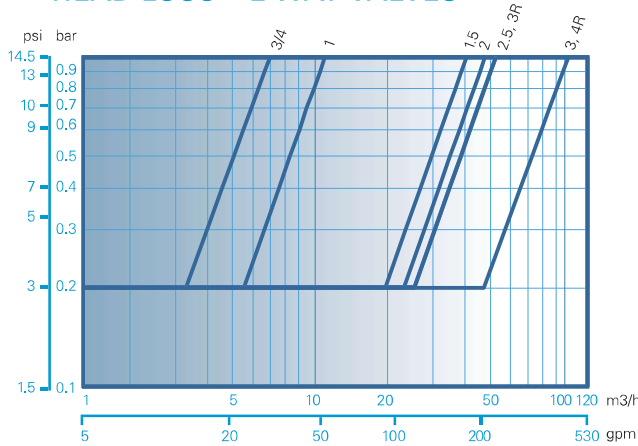
HYDRAULIC PERFORMANCES

Diameter	inch	3/4	1	1.5	2	2.5	3R*	3	4R*	4	6R*
	mm	20	25	35	50	65	80	80	100	100	160
Flow rate factor**	K _v	7.5	15	60	70	75	75	120	120	260	260
	C _v	9	17.5	70	80	90	90	140	140	300	300

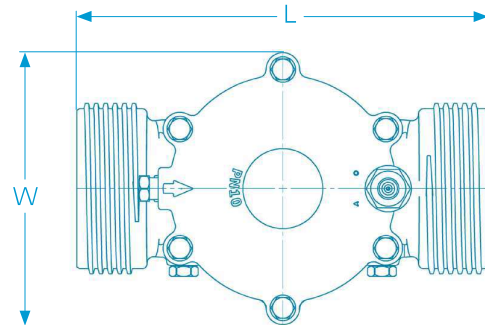
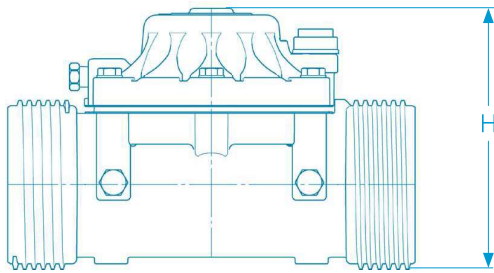
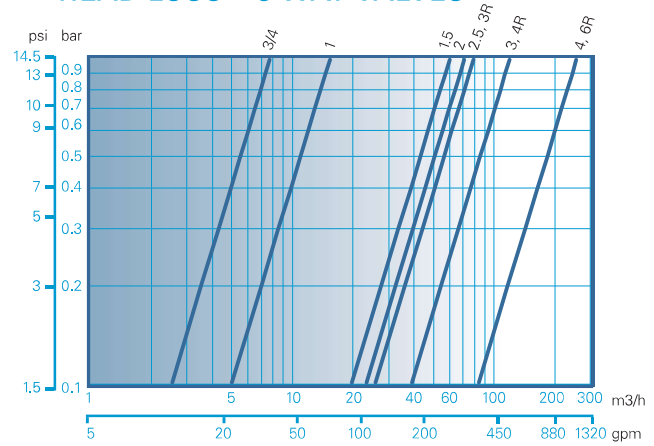
*. R – “Reduced” - 3R = 323”, 4R = 434”, 6R = 646”

**.. In order to calculate the head loss at any desired flow rate, use the following equation: Head loss = (Flow rate/Flow rate factor)²

HEAD LOSS – 2 WAY VALVES



HEAD LOSS – 3 WAY VALVES



DIMENSIONS

Diameter		inch	3/4	1	1.5	2	2.5	3R	3	4R*	4	6R*
		mm	20	25	35	50	65	80	80	100	100	160
HEIGHT	H	mm / inch	60.5 / 2.42	60.5 / 2.42	122.6 / 4.90	117.6 / 4.70	118.7 / 4.75	124.9 / 5.00	174 / 6.90	227 / 9.10	229 / 9.00	284 / 11.18
WIDTH	W	mm / inch	89.5 / 3.58	89.5 / 3.58	130.8 / 5.23	130.8 / 5.23	130.8 / 5.23	130.8 / 5.23	170 / 6.80	227 / 9.10	236 / 9.29	285 / 11.22
LENGTH	L	mm / inch	113 / 4.50	124 / 4.87	188 / 7.37	199 / 7.87	228 / 9.00	236 / 9.25	258 / 10.30	291.5 / 11.66	370 / 14.56	420 / 16.53
VOL. CONTROL CHAMBER		cc / gal	36 / 0.01	36 / 0.01	180 / 0.04	180 / 0.04	180 / 0.04	180 / 0.04	250 / 0.05	250 / 0.05	400 / 0.11	400 / 0.11
WEIGHT		kg / lbs	0.2 / 0.44	0.2 / 0.44	0.9 / 2	0.9 / 2	1.2 / 2.6	1.4 / 3.1	3.1 / 6.8	2 / 4.4	5.95 / 13.1	7.95 / 17.5

*. Dimensions for those diameters include flanges