

90 Series

PVC CONTROL VALVES

Exclusive valves series (3" – 6") suitable for underground and above-ground installation in open fields and greenhouses.



Long-lasting performance



Very high efficiency



High corrosion & UV resistance

/ Benefits & Features

→ Long-lasting performance

Excellent regulation capabilities achieved by a flexible diaphragm mechanism that is designed to allow maximal to near zero flow while operating at very low head losses

→ Very high efficiency

Available with full selection of control functions and various end connections

The optional underground installation reduces both costs and friction losses by eliminating the use of elbow joints

→ High corrosion & UV resistance

Resistance to corrosive fluids is accomplished by using high-quality corrosion-free materials, both externally and internally

Optional materials available for protection against highly concentrated chemicals

/ Specifications & Recommendations

- **Maximum Pressure** – for 3" & 4" valves: 8 bar (115psi), for 6" valves: 10 bar (145psi)
- **Minimum Recommended Flow** – 1m³/h (5gpm)
- **Minimum Operating Pressure** – 0.6 bar (9psi)
- **Maximum Operating Temperature** – 40°C (104°F)

NOTE: This model is available with low pressure diaphragm

→ Hydraulic Performance

Valve Size	inch	3	4	6
	mm	80-90	100-110	150-160
Flow rate factor*	Kv	155	215	480
	Cv	180	250	560

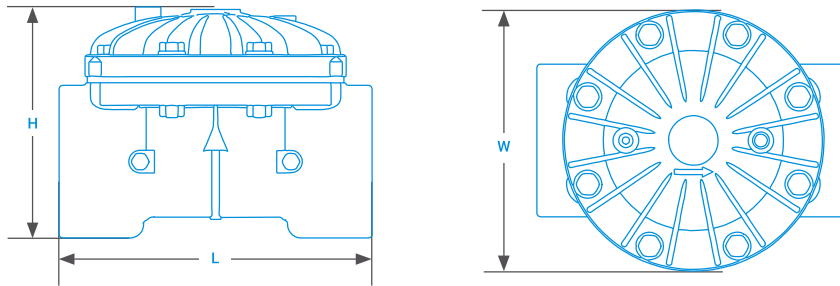
* In order to calculate the head loss at any desired flow rate, use the following equation: Head loss = (Flow rate/Flow rate factor)²

→ Technical Dimensions

Diameter *		inch	3	4	6
		mm	80-90	100-110	150-160
Height	H	mm / inch	208 / 8.06	208 / 8.06	382 / 15
Width	W	mm / inch	229 / 9.16	229 / 9.16	260 / 10.40
Length	L	mm / inch	258 / 10.18	278 / 10.93	360 / 14.18
Control chamber volume		cc / gal	681 / 0.18	681 / 0.18	2,575 / 0.68
Weight		kg / lbs	4 / 8.8	4.2 / 9.2	11.8 / 26

* PVC SW valves are 10mm larger than the pipe to allow solvent welding

Note: The selection of the valve's diameter depends on the diameter of the pipes in the field



→ Material Specifications

#	Part	Material	*Optional
1	Body	uPVC	-
2	Bonnet	Glass reinforced Polyamide	PPS
3	Diaphragm**	Natural rubber	ALD, EPDM
4	Spring	SST 302	SST 316

* Optional parts for special chemical resistance

** Wide selection of pressure ranges

→ Head Loss

3-Way Valves

