

The **Super Gal** is an innovative 3" plastic valve designed for greenhouse, nursery and drip irrigation, agriculture and landscape applications. Designed for a variety of water control applications, the Super Gal is made out of sturdy, durable, corrosion resistant, high-quality materials.

Equipped with a direct-sealing diaphragm, the Super Gal is operated by the pressure in the pipeline and is manufactured in a variety of models including throttling, built-in solenoid operator, various end connection options, and more.

With its simple design, the Super Gal allows maximum dependability at a minimum level of maintenance, while yielding optimal irrigation operation.

Features

- High-capacity design with extremely low pressure losses
- Very low opening pressure
- Strong and reliable, even under harsh conditions
- Super compact structure and minimal parts makes it simple to install and maintain
- Versatile design: 3 Way and 2 Way operation
- Corrosion resistant high quality materials

Benefits

- Cost-saving operation based on low inrush current solenoids
- Simple inline installation for easy, low-cost maintenance
- Available with a throttling handle for flow control

Available Versions

The Super Gal 75 valve is available with a wide range of end connections and control options, making it the most versatile valve of its kind.



Thread 3"



Flanged 3"

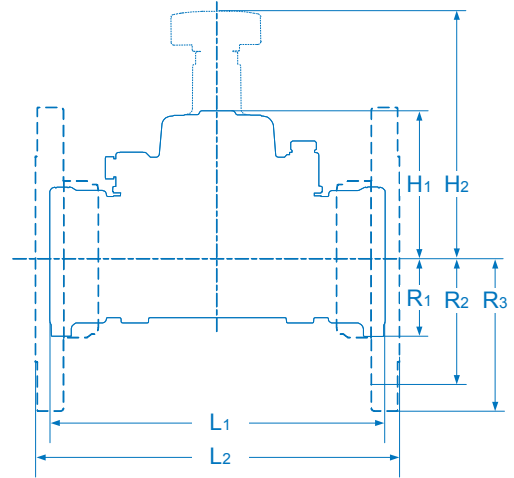


Flanged 4"



Dimensions

	Metric	US
Length	L1 - 260 mm	L1 - 10 1/4"
	L2 - 280 mm	L2 - 11 1/32"
Height	H1 - 100 mm	H1 - 3 15/16"
	H2 - 180 mm	H2 - 7 1/8"
Width	R1 - 60 mm	R1 (3") - 2 3/8"
	R2 - 100 mm	R2 (3") - 3 15/16"
	R3 - 110 mm	R3 (4") - 4 5/16"
Width	170 mm	6 11/16"
Weight	1.4 Kg	3.1 lbs
C.C Volume	250 cc	8.45 oz

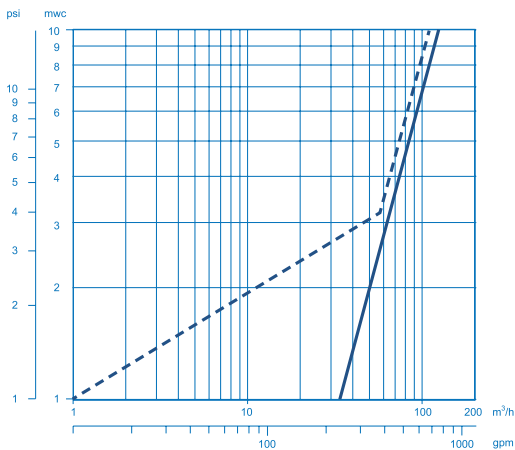


Hydraulic Data

	Metric	US
Max. Continuous Flow	100 m³/h	440 gpm
Max. Intermittent Flow	145 m³/h	640 gpm
Min. Pressure	0.4 bar	6 psi
Max. Pressure	10 bar	145 psi
Max. Temperature	60°C	140°F
Kv / Cv	120	140
K	4.5	4.5

Head loss

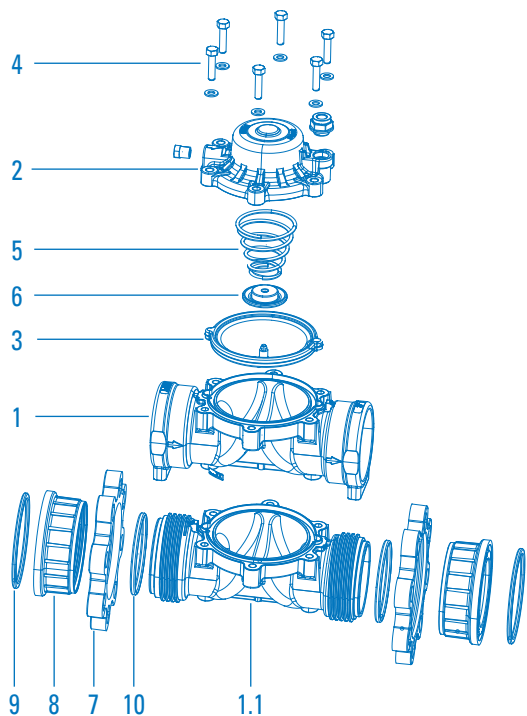
Flow rate	Headloss	
m³/h	bar	psi
25	0.2	2.9
50	0.41	5.9
75	0.62	9
100	0.83	12



2 Way Model - - - - -
 3 Way Model - - - - -

Materials

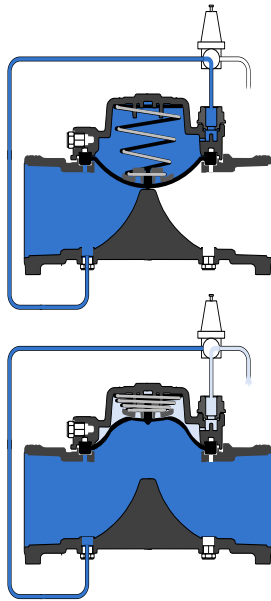
Part	Material
1 Body	GRP
1.1 Body for flange connections	GRP
2 Bonnet	GRP
3 Diaphragm	NR
4 Bolts and washers	SST
5 Spring	SST
6 Spring disc	GRP
7 Flange	3" - Aluminium 4"R - Plastic / Aluminium
8 Flange adapter	PA-GF
9 O-ring No. 2-347	NBR
10 O-ring No. 2-342	NBR



Principle Of Operation

3 Way Control

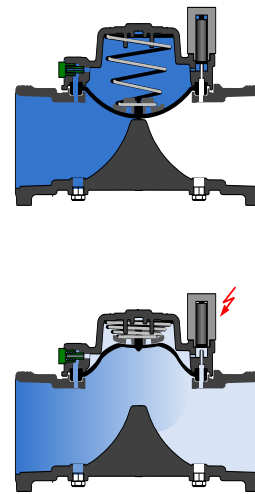
The control device is used to either admit pressure into the control chamber to close the valve, or to relief pressure to the atmosphere to allow the valve to open.



2 Way Electric-Control

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.

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



Ordering guide:

Ordering data	Ordering code					Ordering data	
	75	□□	□□	□□	□□		
Bonnet		↑	↑	↑	↑	Application	
Standard	→				M	←	Manual ON-OFF
with throttling handle	→	T			RC	←	Remote hydraulic control
Port size					ED2	←	Electric 2Way valve (integral operator)
3" / 80mm	→		3		EL(D3)	←	Electric 3Way valve
4"R / 100mmR *	→		4R		ED3	←	Electric 3Way valve (integral operator)
Port connections					PR	←	Pressure Reducing
BSP threaded	→		BS		PS	←	Pressure Sustaining/Relief
NPT threaded	→		NP		PR/EL	←	Electrically-activated Pressure Reducing
Aluminium Universal Flanges	→		FM		PR/RC	←	Hydraulically-activated Pressure Reducing
Plastic Universal Flanges *	→		FP		PR/PS	←	Pressure Reducing and Pressure Sustaining
* 4"R/100mmR valves are available with flanged connection only and only this size can be fitted with plastic flanges.					PS/EL	←	Electrically-activated Pressure Sustaining
					FR	←	Flow Control Valve
					FL	←	Modulating Float Controlled Valve
					XX	←	Other (Specify)