

# Dorot Catalogue Agricultural Valves



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# Globe & Angle Irrigation Valves

Series 80, the most modern type of valve, was designed especially for greenhouse irrigation systems- as well as turf and field crops irrigation.

The Mod.80 valves are equipped with the unique Labyrinth device that eliminates clogging while low- quality water is used.

A built-in manual- activation unit allows override of the electric control at any control mode (opening without electric signal, and closure while the valve is operated by the electric controller).

An option of Angle-pattern valves is available.

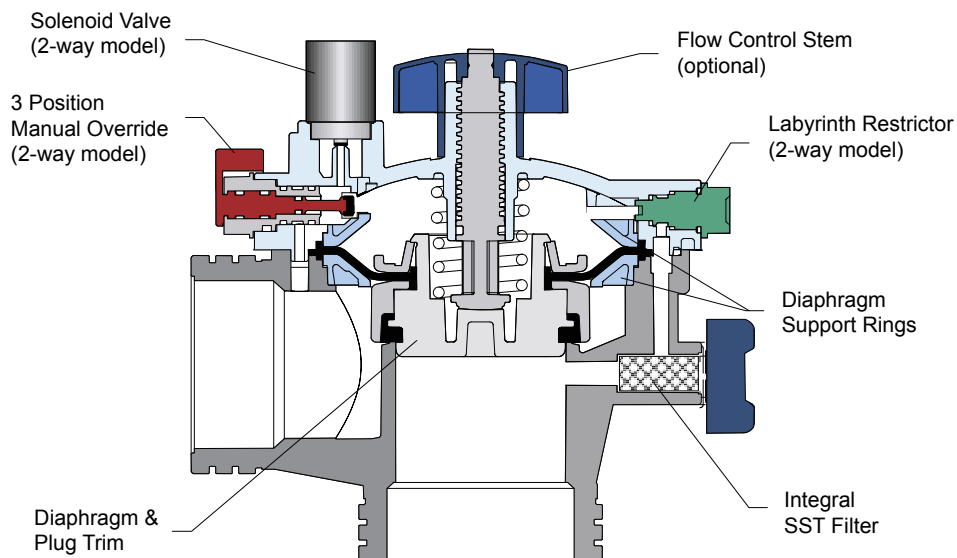
### Features and Benefits

- Simple, reliable and economical
- Angle or straight, globe- pattern valve, activated by a fully-supported diaphragm
- Durable, corrosion free materials
- Unique clog-free labyrinth inlet of the activation water on electric 2-way valves
- 3 Position Manual override on electric 2-way valves
- Operation at wide range of flow rates, from near zero to the maximal flow
- Electric 2-way or hydraulic / electric 3-way actuation
- All of the control system's devices are assembled on the valve's bonnet.

No tubes are connected to the body

- Removable flow control stem handle (optional)
- Integral stainless-steel EasyClean® filter





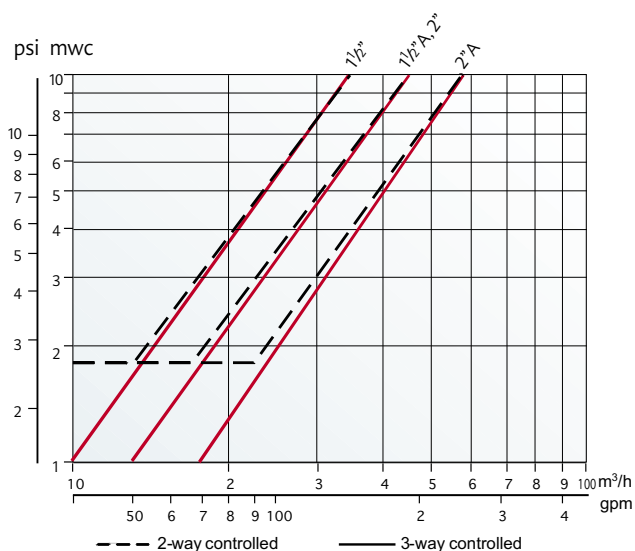
## Technical Data

### Pressure losses

Flow		Pressure loss (3-way valves)							
		40mm, 1½"				50mm, 2"			
		Angle		Straight		Angle		Straight	
gpm	m³/h	psi	bar	psi	bar	psi	bar	psi	bar
22	5	0.19	0.01	0.33	0.02	0.11	0.01	0.19	0.01
44	10	0.75	0.05	1.33	0.09	0.43	0.03	0.75	0.05
88	20	3	0.21	5.33	0.37	1.72	0.12	3	0.21
132	30	6.74	0.46	12	0.83	3.9	0.27	6.74	0.46
176	40					6.9	0.48	12	0.83

### Dimensions

		40mm, 1½"		50mm, 2"	
		Angle	Straight	Angle	Straight
Height	mm	171	159	171	166
	inch	6.73	6.23	6.73	6.54
Width	mm	163	163	163	163
	inch	6.42	6.42	6.42	6.42
Length - Straight Center to outlet-Angle	mm	88	165	88	165
	inch	3.46	6.5	3.46	6.5
Weight	kg	0.8	0.9	0.8	0.9
	lbs	1.8	2	1.8	2



### Operation data

		40mm, 1½"	50mm, 2"
Max. Flow	m³/hr	25	40
	gpm	110	176
Pressure range	bar	0.5-10	
	psi	7-150	
Max. Water Temp.	°C	60	
	°F	140	
Max. Ambient Temp.	°C	52	
	°F	125	

### Electrical Specifications

- Standard: 24 VAC 50/60 Hz. ±10%
- Optional: other voltage rating or latching DC operators
- Current: 0.26 Amp Inrush; 0.12 Amp holding



# 80-1, 80-3/4" Turf Irrigation Valves

**New electric valve for gardens,  
parks and golf courses**

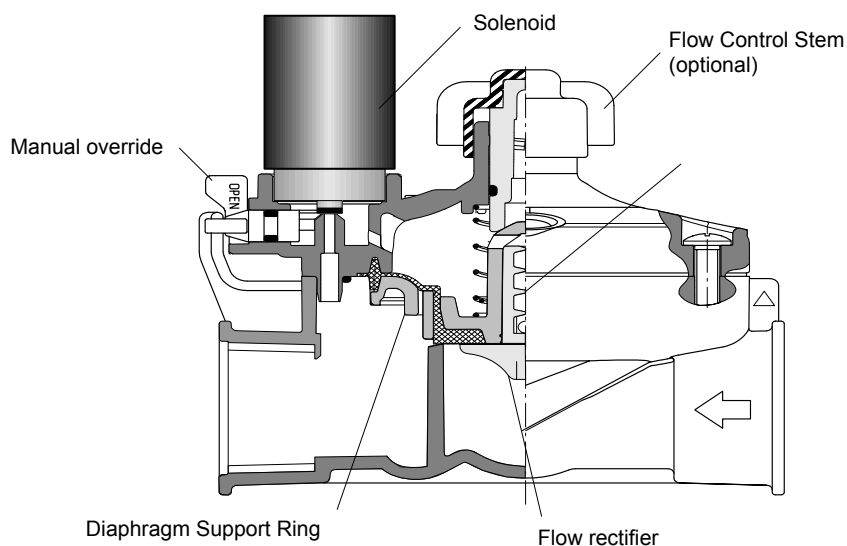
### Features and Benefits

- Simple, reliable and economical
- Globe- pattern valve, activated by a fully- supported diaphragm
- Durable, corrosion free materials
- Unique clog- free labyrinth inlet of the activation water
- Operation at wide range of flow rates, from near zero to the maximal flow
- Internal bleed manual override opening
- Removable flow control stem handle (optional)

No filters

No cleaning needle

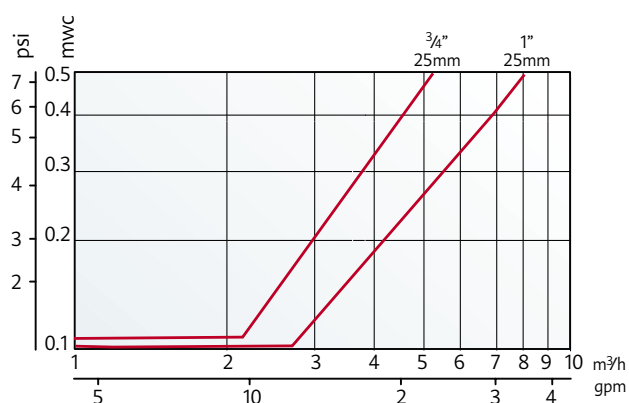




## Technical Data

### Pressure losses

flow		Pressure loss			
		80- $\frac{3}{4}$ "		80-1"	
gpm	m <sup>3</sup> /h	psi	bar	psi	bar
2.2	0.5	1.42	0.10	1.42	0.10
4.4	1	1.60	0.11	1.42	0.10
8.8	2	1.65	0.11	1.42	0.10
13.2	3	2.90	0.20	1.65	0.11
17.6	4	4.35	0.30	2.61	0.18
22.0	5	6.82	0.47	3.63	0.25
26.4	6			4.83	0.33
30.8	7			6.09	0.42



### Dimensions

		20mm, $\frac{3}{4}$ "	25mm, 1"
Height	mm	109	112
	inch	4.3	4.4
Width	mm	75	75
	inch	3	3
Length - Straight Center to outlet-Angle	mm	98	103
	inch	3.9	4.1
Weight	kg	0.28	0.29
	lbs	0.62	0.64

### Operation data

		20mm, $\frac{3}{4}$ "	25mm, 1"
Max. Flow	m <sup>3</sup> /hr	6	10
	gpm	26	44
Pressure range	bar	0.5-10	
	psi	7-150	
Max. Water Temp.	°C	60	
	°F	140	
Max. Ambient Temp.	°C	52	
	°F	125	

### Electrical Specifications

- Standard: 24 VAC 50/60 Hz.  $\pm 10\%$   
Optional: other voltage rating or latching DC operators
- Current: 0.26 Amp Inrush; 0.12 Amp holding

# Gal Plastic Valves

### Description

Series 75, "GAL" plastic valves are designed for the control of irrigation systems of field crops, vineyards and orchards.

The exceptional hydraulic characteristics of the mod.75 enable very high flow rates, at low head losses.

Wide range of control functions, allows the design of the irrigation networks to optimal operation.

The uPVC valves, models 95 (threaded) and 96 (solvent welded straight to the pipe) are made for high-flow irrigation plots and flood tables.

The direct- attachment to the PVC pipelines, the optional underground installation, save cost of valve configurations and reduce head losses.

Unique diaphragm design generates surge- free closure even at high velocities.



Opened Valve



Closed Valve

### Advantages

- Structural simplicity
- Superb hydraulic performance
- Reliable control of corrosive liquids
- Light-weight, cost-saving
- Minimum maintenance - maximum dependability



Model 95



Model 96



Model 96-6



Model 75-1-E/D2

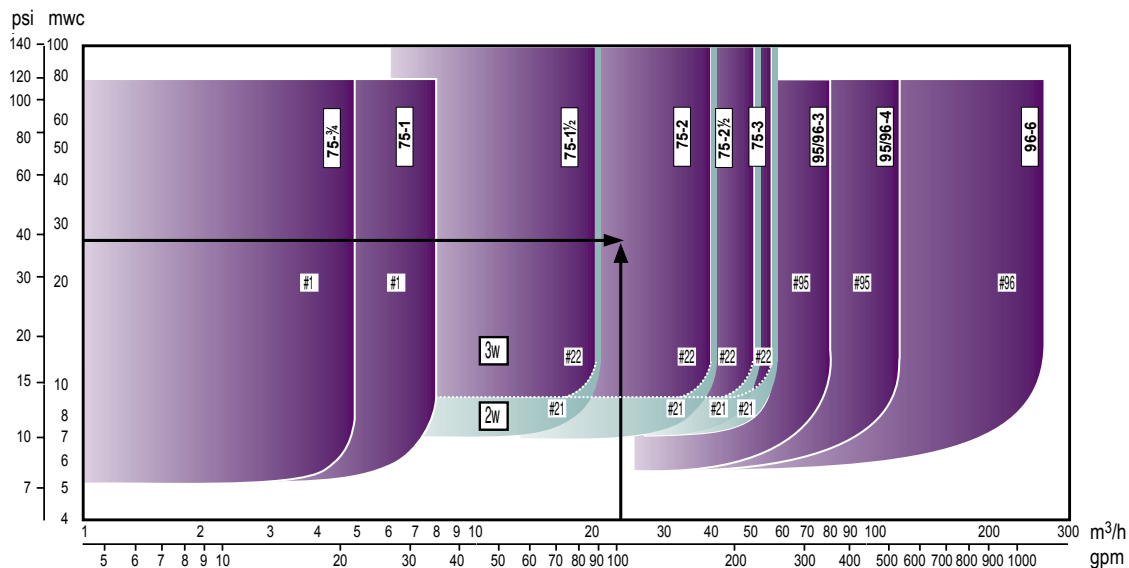


Model 75-2-T-E/D2



## Size Selection Guide

This graph provides a guide, based on flow rate and pressure, for the proper selection of valve size.



Locate the **flow rate** on the horizontal axis and draw a line upwards.

Locate the **line pressure** on the vertical axis and draw a line to the right.

The intersection point of the two lines marks the appropriate valve size.

**Example:** line pressure 28m (40 psi), flow rate 23 m<sup>3</sup>/h (100 gpm), appropriate valve = model 75-2".

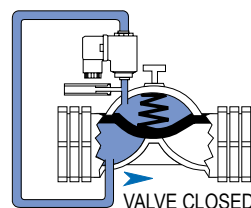
## Principle of Operation

### 1) 3-Way Control

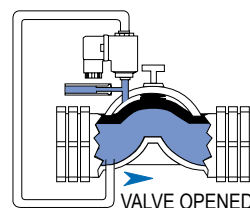
This control device admits pressure into the control chamber, closing the valve, or relieves pressure to the atmosphere, fully opens the valve.

### 2) 2-WAY ELECTRIC CONTROL

A solenoid operator plugs the control chamber outlet. A permanent connection from the upstream to the control chamber ensures line pressure in the chamber and thus valve closure. Energizing the solenoid operator causes the control chamber to drain to downstream, opening the valve.



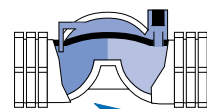
VALVE CLOSED



VALVE OPENED



DE - ENERGIZED  
VALVE CLOSED



ENERGIZED  
VALVE OPENED

## Model Selection Table

Model	75							95	96		
Material	GRP							uPVC	uPVC		
Connection	TH							TH	SW		
Size	inch	3/4	1	1 1/2	2	2 1/2	3	3	3	4	6
	mm	20	25	40	50	65	80	80	90	110	160
Structural Version	code										
Basic	-			•	•	•	•	•	•	•	•
Throttling	T			•	•	•	•				
Integral 2-Way Electric Control (Dorot Solenoid)	E/D2	•	•	•	•	•	•				
Integral 3-Way Electric Control (Gemsol Solenoid)	E/B3			•	•	•	•				
Throttling + 2-Way Electric Control Dorot Sol.	T-E/D2	•	•	•	•	•	•				
Throttling + 3-Way Electric Control Gemsol	T-E/B3			•	•	•	•				

\* Non - Integral Solenoid

Abbreviations: GRP = Glass - Reinforced Polyamide • uPVC = Unplasticized Polyvinyl Chloride • TH = Threaded • SW = Solvent Welded

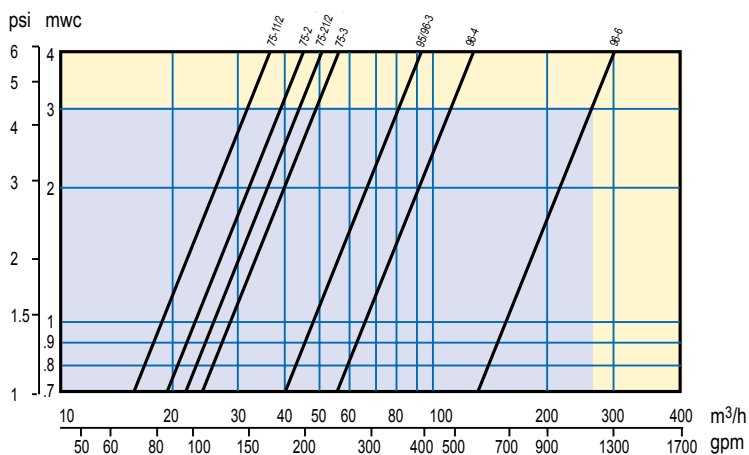
\* For Non-Return Feature, please add "N" - E/D2-N



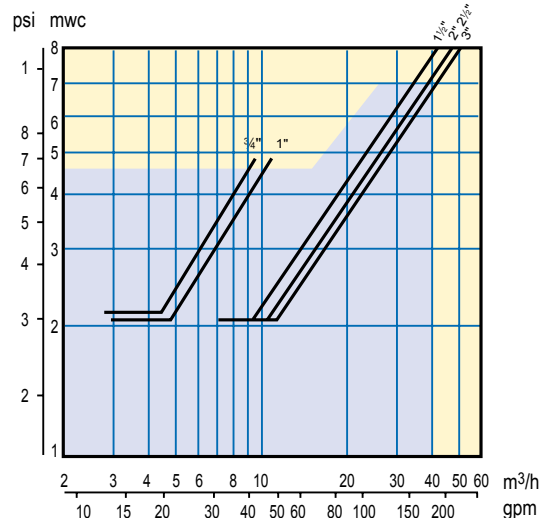
## Headloss Chart

(Blue area indicates recommended operating range)

3-Way control model 75, 95, 96



2-Way electric control - model 75



## Pressure Rating

Model 75	Sizes 3/4", 1" - 80m (115 psi)
Model 75	Sizes 1 1/2", 3" - 100m (145 psi)
Model 95/96	Sizes 3", 4" - 80m (115 psi)
Model 96	Sizes 6" - 80m (115 psi)

## Specifications

### Materials

<b>Valve:</b>	Body	Model 75: 30% Glass Reinforced Polyamide
	Bonnet	Models 95, 96: uPVC
	Diaphragm	30% Glass Reinforced Polyamide
	Spring	Natural Rubber
	Spring Seat	SST 302
	Nuts And Bolts	Polyamide
		Coated Steel or SST 304
<b>Solenoid Operator:</b>	Coil	Polyester-coated Steel
	Plunger	SST
	Seal	BUNA-N or NR

### Connections

**Thread:**  
Female ISO (BSP), ANSI (NPT)  
**Solvent Welding:**  
BS 4346.1/ASTM D2467/AS 1477  
ISO 727, DIN 8063

## Electrical Data

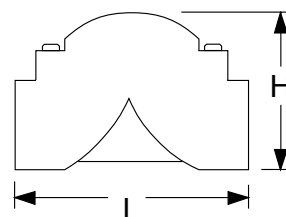
8 Watt Operator: Voltage 24vac 50hz, Others On Request, Inrush Current 1.1a, Holding 0.66a

3 Watt Operator: Voltage 24vac, 50hz/60hz, Others On Request, Inrush Current 0.3 A, Holding 0.15a

Note: The Standard Coil is 24 Vac, 50hz. Others On Request  
The factory reserves the right to modify specifications without prior notice.

## Dimensions

Model	Size		L		H	
	mm	inch	mm	inch	mm	inch
75	20	3/4	113	4 1/2	70	2 3/4
75	25	1	124	4 7/8	73	2 7/8
75	40	1 1/2	188	7 3/8	110	4 3/8
75	50	2	199	7 7/8	110	4 3/8
75	65	2 1/2	228	9	119	4 5/8
75	80	3	236	9 1/4	120	4 3/4
95/96	80	3	258	10 1/8	195	7 5/8
96	110	4	278	11	202	8
96	160	6	360	14	380	15



# Typical Applications plastic Control valves

### Pressure Reducing Valve Model 80

Made to maintain a constant, preset pressure in greenhouses, turf and open field irrigation plots- regardless of pump pressure or demand variations.



### Pressure Sustaining / Relief Valve Model 75

The Sustaining valve maintains a constant, preset pressure in the inlet side, to protect pumps in case of excessive demand. It can also be used to prevent pressure drop in supply pipelines, when the flow exceeds the designed value.

Relief valve drains water from the main



### 3-way Electric valve

Valve model 75, 1.5"-3" sizes, three-way Electric control. Made for high- flow greenhouse irrigation, especially for control of Flood Tables, and of Field crops irrigation networks that are activated by sophisticated controllers.





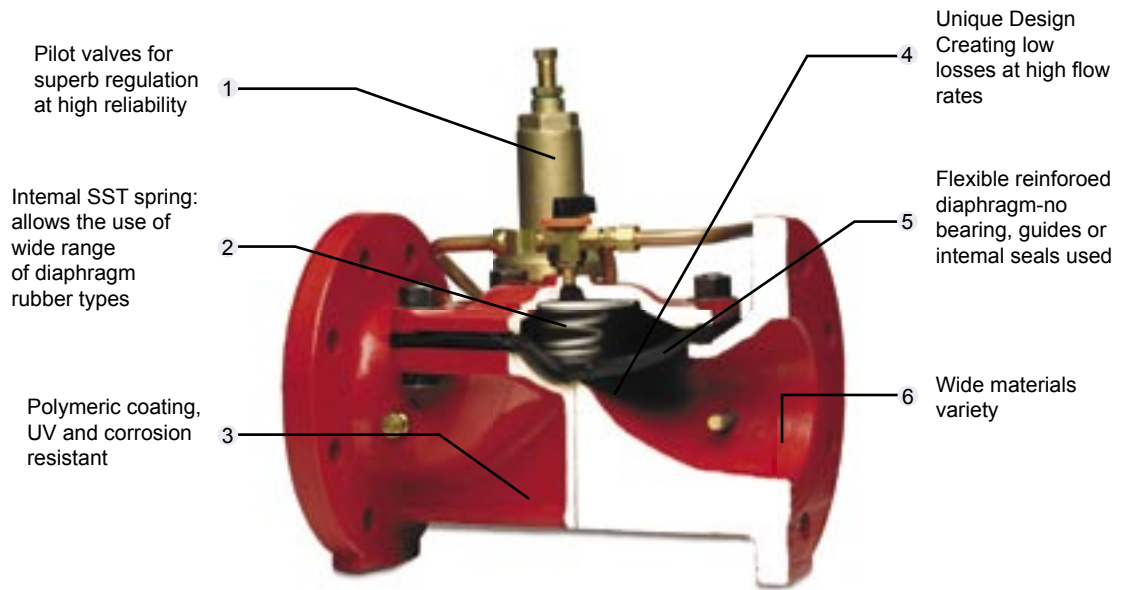
# Metal Hydraulic Control Valves

### Features and Benefits

- Structural simplicity
- Superb design featuring exceptionally low pressure losses at high flow rates
- Can be used for regulating from no-flow to maximal flow with no need for additional throttling devices or by-pass valves
- For natural liquids, sea water and industrial effluents
- A wide selection of materials, coating and diaphragm types
- All valve models fit a wide variety of control applications using Dorot pilot valves

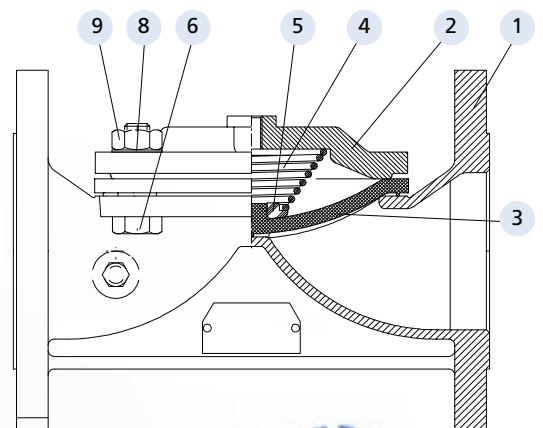
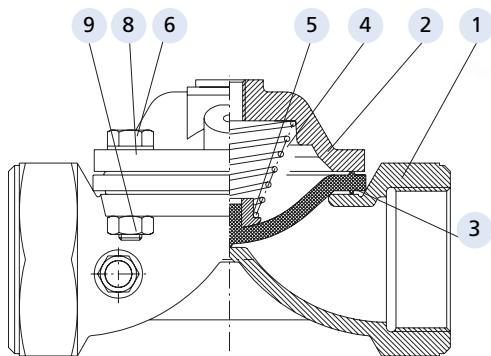
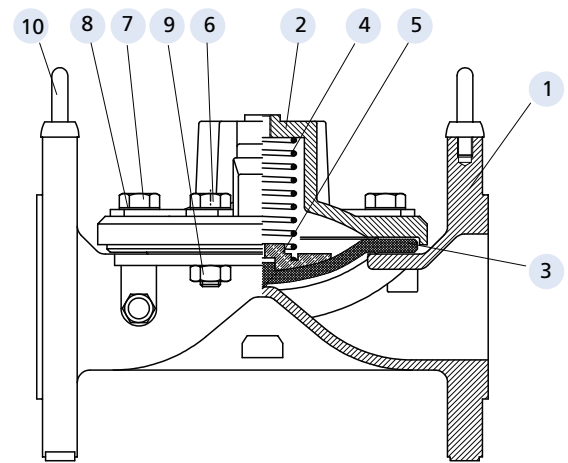


## Main Components















## Components

Component No.	Description
1	Body
2	Bonnet
3	Diaphragm
4	Spring
5	Spring Disc
6	Bolt
7	Short Bolt
8	Washer
9	Nut
10	Suspension Ring (Hook)



## Technical Data

### Available Models:

Pattern												
Connection	Threaded	Threaded	Victaulic®	Flanged	Flanged	Flanged	Flanged	Threaded	Victaulic®	Threaded	Flanged	Threaded
Material	Cast Iron	Bronze	Cast Iron	Cast Iron	Bronze	Ductile Iron	Cast Iron	Cast Iron	Cast Iron	Bronze	Ductile Iron	Ductile Iron
Max. Pressure	16 bar / 230 psi										25 bar / 360 psi	
Available Sizes	mm	inch										
	20	3/4"	•	•								
	25	1"	•	•								
	40	1 1/2"	•	•	•				•		•	
	50	2"	•	•	•	•	•		•		•	•
	65	2 1/2"	•	•			•					
	80	3 1/2"	•	•	•		•		•		•	
	80	3"	•	•	•	•	•	•	•	•	•	
	100	4"			•	•	•	•		•	•	
	150	6"			•	•	•	•			•	
	200	8 1/2"			•	•	•					
	200	8"			•	•	•				•	
	250	10"			•	•	•				•	
	300	12"			•	•	•					
	350	14"			•	•	•					
	400	16"					•				•	
	450	18"					•				•	
	500	20"					•				•	
	600	24"					•				•	

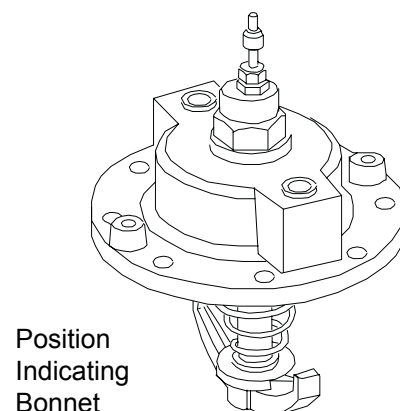
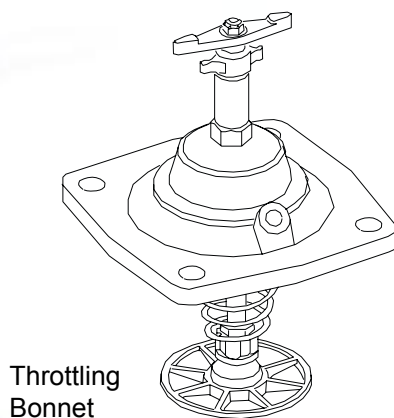
### Design Specifications:

Materials	Standard	Optional*
Body and Bonnet	Cast Iron, Ductile Iron, Bronze	Cast Steel, Stainless Steel
Diaphragm	Natural Rubber	NBR, EPDM, Neoprene
Spring	SST 302	SST 316
Nuts and Bolts	Coated Steel	SST
Coating	Polyester	Epoxy, Nylon, Rubber

Connections	Standard	Optional*
Flanges	ISO 2084, 2441, 5752	ANSI B16 JIS B22 AS 10
Threads	F-BSP	F-NPT
Control Bores	1/8", 1/4", 1/2" NPT	Epoxy, Nylon, Rubber

\* Others Upon Request

### Non Standard Bonnets:





## Diaphragm Selection Table\*

Diameter		Type	No.	Pressure Range	
mm	inch			mwc	psi
20, 25	3/4", 1"	Standard	18	12-160	17-230
		Low Pressure	85	5-100	7-140
40	1 1/2"	Standard	13	12-160	17-230
		S. Low Pressure	82	5-50	7-70
50, 65	2", 2 1/2", 3 23"	Standard	03	15-160	21-230
		Low Pressure	02	7-100	10-140
		S. Low Pressure	12	4-50	6-70
		Extreme	60	20-160	28-230
50 <sub>HP</sub>	2" <sub>HP</sub>	High Pressure	69	10-250	15-360
80, 100	3", 4"	Standard	32	12-160	17-230
		Low Pressure	05	4-100	6-140
		Extreme	61	20-160	28-230
80 <sub>HP</sub>	3" <sub>HP</sub>	High Pressure	70	10-250	15-360
100 <sub>HP</sub>	4" <sub>HP</sub>	High Pressure	71	10-250	15-360
150	6", 868	Standard	62	15-160	21-230
		Low Pressure	09	5-100	7-140
		S. Low Pressure	91	2-60	3-85
		Extreme	35	20-160	28-230
150 <sub>HP</sub>	6" <sub>HP</sub>	High Pressure	72	10-250	15-360
200, 300, 350	8", 12", 14"	Standard	36	7-160	10-230
		Low Pressure	37	2-100	3-140
		Extreme	63	20-160	28-230
200 <sub>HP</sub>	8" <sub>HP</sub>	High Pressure	73	10-250	15-360
250	10"	Standard	40	7-160	10-230
		Low Pressure	50	2-100	3-140
250 <sub>HP</sub> , 400 <sub>HP</sub> , 500 <sub>HP</sub> , 600 <sub>HP</sub>	10" <sub>HP</sub> , 16" <sub>HP</sub> , 20" <sub>HP</sub> , 24" <sub>HP</sub>	High Pressure	78	10-250	15-360
		Low Pressure	92	2-100	3-140

\* Standard Diaphragm: Nylon Reinforced Natural Rubber. Optional Materials: Nitrile, EPDM, Neoprene Available Upon Request.

\*\* HP = High Pressure

## Pressure Rating

**Pressure rating of series 100 valves is body strength, connection standard and diaphragm type.**

Pressure rating of valve body of standard models: 16 Bar / 230 psi.

Pressure rating of valve body of high pressure models: 25 Bar / 360 psi.

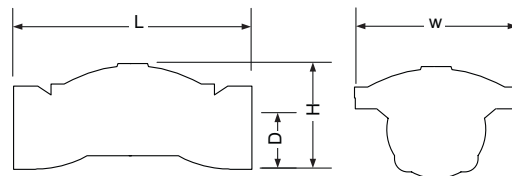
Connection standard is marked on the identification plate, assembled on the valve body.

Diaphragms operation pressure range is presented at the above table.

# SERIES 100

## Technical Data

### Dimensions and Weights



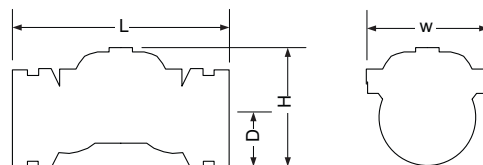
#### Straight Flow, Threaded Connection

Valve Size		L				H				D		W		Weight			
		Cast Iron		Bronze		Cast Iron		Bronze						Cast Iron		Bronze	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs	kg	lbs
20	3/4	115	4.53	112	4.41	43	1.69	43	1.69	20	0.79	68	2.68	1	2.2	1	2.2
25	1	120	4.72	119	4.69	52	2.05	52	2.05	24	0.94	68	2.68	1	2.2	1	2.2
40	1 1/2	170	6.69	149	5.87	93	3.66	86	3.39	33	1.3	93	3.66	2.2	4.9	1.8	4
50	2	188	7.4	184	7.24	115	4.53	101	3.98	42	1.65	112	4.41	3.2	7	2.6	5.7
65	2 1/2	219	8.62	212	8.35	118	4.65	109	4.29	46	1.81	112	4.41	3.6	7.9	3.4	7.5
80 <sub>LF</sub> *	323	225	8.86	221	8.7	126	4.96	116	4.57	54	2.13	112	4.41	4.5	9.9	3.9	8.5
80	3	316	12.44	316	12.44	135	5.31	135	5.31	53	2.09	200	7.87	11	24		

\* LF = Low Flow

#### Straight Flow, Grooved Connection (Vic.)

Valve Size		L		H		D		W		Weight	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs
40	1.5	177	6.97	81	3.19	26	1.02	93	3.66	1.8	4
50	2	190	7.48	100	3.94	33	1.3	112	4.41	2.6	5.7
80	323	201	7.91	120	4.72	47	1.85	112	4.41	3	6.6
80 <sub>LF</sub>	3	286	11.26	124	4.88	47	1.85	200	7.87	11	24.3
100	4	317	12.48	133	5.24	60	2.36	194	7.64	12	26.4
150	6	392	15.43	250	9.84	82	3.23	300	11.81	31	68.3

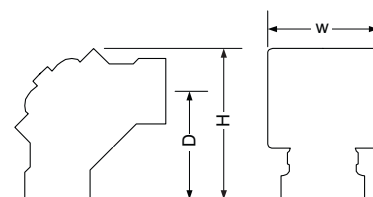


#### Angle Flow, Grooved Connection (Vic.)

Valve Size		H		D		W		Weight	
mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs
80	3	240	9.45	170	6.69	200	7.87	10.5	23.1
100	4	250	9.84	185	7.28	200	7.87	11.5	25.4

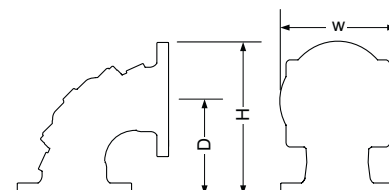
#### Angle Flow, Threaded Connection

Valve Size		H		D		W		Weight	
mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs
40	1.5	110	4.33	75	2.95	93	3.66	1.7	3.7
50	2	136	5.35	90	3.54	112	4.41	2.4	5.3
80 <sub>LF</sub>	323	165	6.5	114	4.49	112	4.41	3.6	7.9
80	3	239	9.41	145	5.71	200	7.87	10.8	23.8



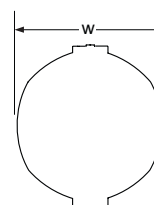
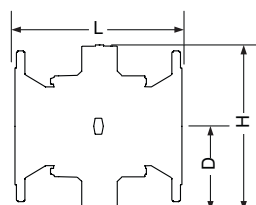
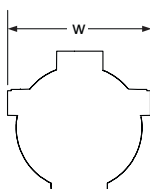
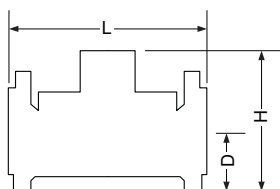
#### Angle Flow, Flanged Connection

Valve Size		H		D		W		Weight	
mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs
80	3	278	10.9	174	6.85	200	7.87	18	39.7
100	4	300	11.8	185	7.28	230	9.06	21	46.3
150	6	380	15	230	9.06	300	11.8	45	99.2



## Straight Flow, Flanged Connection - Standard Models 16 Bar / 230 psi

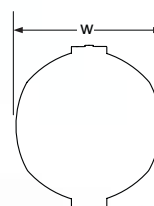
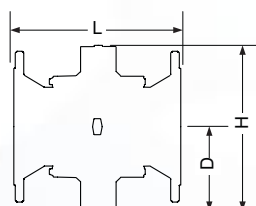
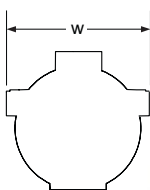
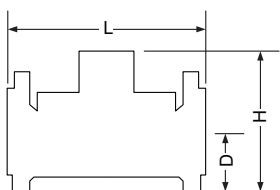
Valve Size		L		H		D		W		Weight					
										Cast Iron		Duct. Iron		Bronze	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs	kg	lbs	kg	lbs
50	2	200	7.87	166	6.54	85	3.35	166	6.54	7.2	15.8	7.7	17	8	17.6
80 <sub>LF</sub>	323	200	7.87	202	7.95	105	4.13	200	7.87	11	24.3	11.8	26		
80	3	285	11.22	200	7.87	105	4.13	200	7.87	17	37.5	18.2	40.1	19	42
100	4	305	12.01	230	9.06	110	4.33	230	9.06	22	48.5	24	53	24	53
150	6	390	15.35	314	12.36	145	5.71	300	11.8	46	101	49	108	51	112
200 <sub>LF</sub>	868	385	15.16	350	13.78	170	6.69	365	14.4	50	110	54	119		
200	8	460	18.11	400	15.75	170	6.69	365	14.4	80	176	86	190	89	196
250	10	535	21.06	445	17.52	205	8.07	440	17.3	117	258	125	276	131	289
300	12	580	22.83	495	19.49	240	9.45	490	19.3	156	344	167	368	147	324
350	14	580	22.83	495	19.49	270	10.6	540	21.3	182	401	172	379	180	397



## Straight Flow, Flanged Connection - High Pressure Models 25 Bar / 360 psi

Valve Size		L		H		D		W		Weight	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs
50	2	228	8.98	169	6.65	85	3.35	175	6.9	10	22
50 <sub>TH</sub>	2 <sub>TH</sub>	250	8.98	120	6.65	42	1.65	175	6.9	6	13
80	3	310	12.2	237	9.33	105	4.13	200	7.87	30	66.1
100	4	356	14.02	263	10.35	120	4.72	260	10.24	38	83.8
150	6	436	17.17	378	14.88	150	5.91	320	12.6	75	165.3
200	8	530	20.87	481	18.94	180	7.09	400	15.75	123	271
250	10	636	25.04	546	21.5	215	8.46	495	19.49	190	419
400	16	715	28.15	830	32.68	310	12.2	830	32.68	433	955
450	18	715	28.15	830	32.68	340	13.39	830	32.68	460	1014
500	20	900	35.43	970	38.19	490	19.29	980	38.58	674	1486
600	24	900	35.43	970	38.19	490	19.29	980	38.58	696	1534

\* TH = Threaded





## Technical Data

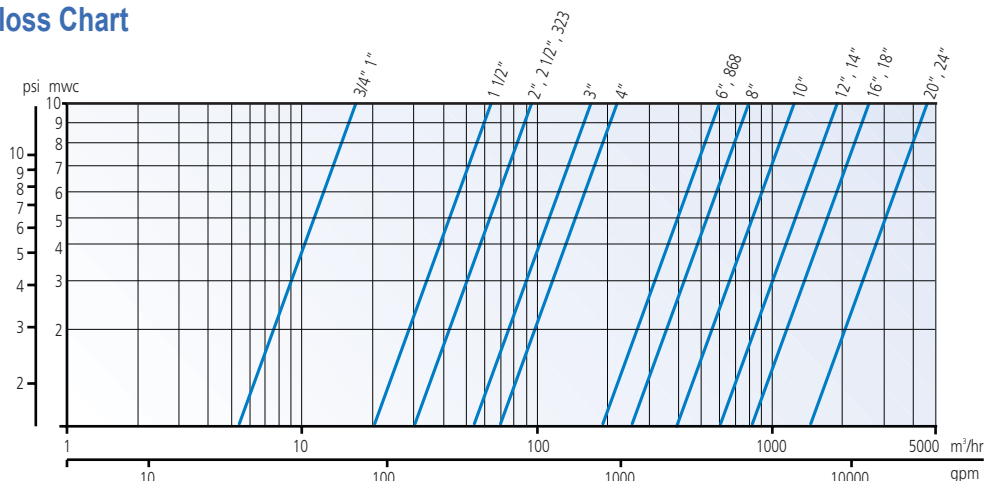
### Hydraulic Performance

Valve Size	mm	20	25	40	50	65	80	80 <sub>LF</sub>	100	150	200 <sub>LF</sub>	200	250	300	350	400	450	500	600
	inch	3/4	1	1 1/2	2	2 1/2	3	3	4	6	8	8	10	12	14	16	18	20	24
Max. Flow Continuanace	m <sup>3</sup> /hr	6	10	25	40	40	40	90	100	350	350	480	970	1400	1400	2500	2500	3890	5500
	gpm	26.4	44	110	176	176	176	396	440	1540	1540	2112	4268	6160	6160	11000	11000	17116	24200
Max. Flow Intermittent	m <sup>3</sup> /hr	16	27	68	109	109	109	245	273	955	955	1309	2645	3818	3818	6818	6818	10609	10609
	gpm	72	120	300	480	480	480	1080	1200	4200	4200	5760	11640	16800	16800	30000	30000	46680	46680
Minimal Flow	m <sup>3</sup> /hr	< 1																	
	gpm	< 5																	
Kv	m <sup>3</sup> /hr @ 1 bar	17	17	64	95	95	95	170	220	600	670	800	1250	1900	1900	2600	2600	4600	4600
Cv	gpm @ 1 psi	20	20	75	110	110	110	200	260	700	780	930	1460	2220	2220	3030	3030	5370	5370
Kv*	m <sup>3</sup> /hr @ 1 bar	-	-	-	78	-	-	120	200	550	-	800	1300	-	-	2600	2600	4600	4600
Cv*	gpm @ 1 psi	-	-	-	91	-	-	140	230	640	-	930	1520	-	-	3030	3030	5370	5370

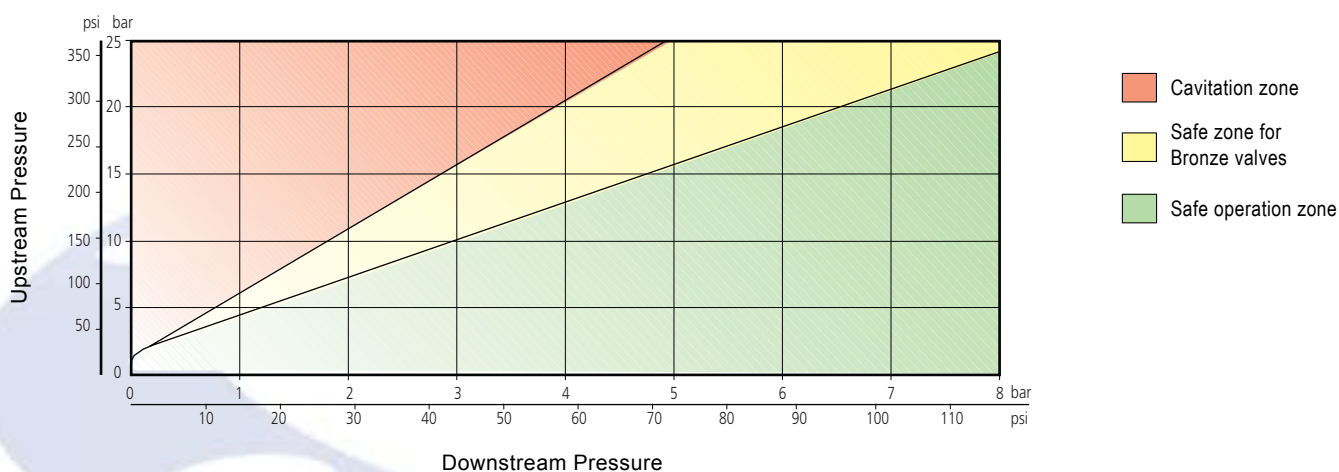
\* High pressure models

$$\Delta P(\text{Bar}) = \left( \frac{Q \left[ \frac{\text{m}^3}{\text{hr}} \right]}{K_v} \right)^2 \quad \Delta P(\text{Psi}) = \left( \frac{Q[\text{gpm}]}{C_v} \right)^2$$

### Headloss Chart



### Cavitation Data



## Typical Applications

### PR Pressure Reducing Valve

#### Description

The valve maintains a preset downstream pressure, regardless of upstream pressure or flow rate fluctuation.

The main valve is controlled by either a 3-way pilot valve (allowing full opening when upstream pressure drops below the pressure set-point), or by a 2-way pilot valve (creating a minimal differential in open position).

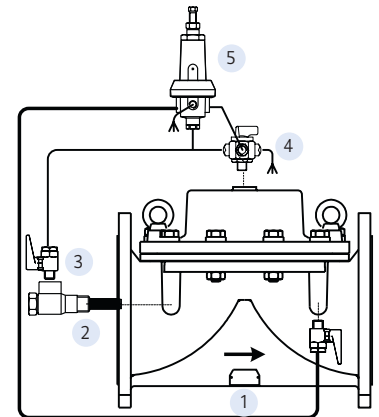
#### Features

- Accurate, stable control from no-flow to full flow
- Simple and reliable design
- Exceptionally low losses at high flow
- WRAS Approval no. 04251



- 1 Main valve
- 2 Self-flushing filter
- 3 Cock valve\*
- 4 Manual over-ride selector valve\*
- 5 3-way pilot valve (other types are optional)

\* Optional component



### PS Pressure Sustaining & Relief Valve

#### Description

The valve maintains upstream pressure, regardless of flow rate variations. The valve will be in the "closed" position if the upstream pressure drops below the set-point and will fully open when the upstream pressure exceeds the set-point.

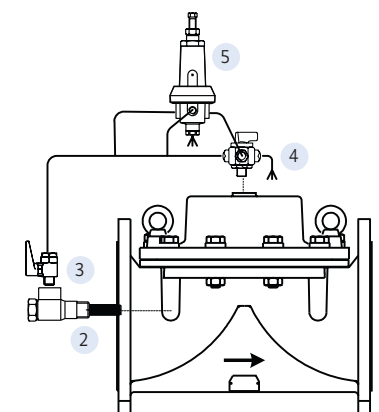
#### Features

- Accurate, stable control from no-flow to full flow
- Simple and reliable design
- Exceptionally low losses at high flow



- 1 Main valve
- 2 Self-flushing filter
- 3 Cock valve\*
- 4 Manual over-ride selector valve\*
- 5 3-way pilot valve (other types are optional)

\* Optional component



### FL Modulating Float Controlled Valve

#### Description

The main valve is controlled by a float valve, located in the tank or reservoir and set at the required maximum water level. The valve maintains the maximum level continuously.

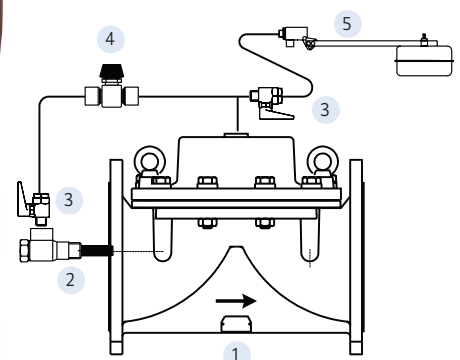
#### Features

- Accurate and repeatable level control
- Simple and reliable design
- Easy installation and maintenance
- Adjusts the inlet flow to the reservoir's outlet flow
- WRAS Approval no. 0009092



- 1 Main valve
- 2 Self-flushing filter
- 3 Cock valve\*
- 4 Needle valve
- 5 Modulating float pilot valve

\* Optional component





## DOROT AUTOMATIC CONTROL VALVES

Founded in 1946, DOROT is a leading developer, manufacturer, and marketer of a wide range of superior quality control valves. DOROT's experienced Research & Development Dept. has a long tradition of generating innovative solutions for the application of water control systems. These include: waterworks distribution networks, sewage and effluent disposal, fire protection, mining, and irrigation systems.

DOROT's commitment to excellence begins with using the highest quality materials. The company's engineering experts are constantly working to provide customers with a broad range of valve patterns and sizes in a wide variety of metals and grades including: Cast Iron, Ductile Iron, Cast Steel, SST, Bronze, Marine Bronze, Polyamide and P.V.C.

The experts at DOROT custom-design each valve application according to specific control requirements. Most of the production process, which includes, machining, and coating, takes place in modern in-house facilities.

Before leaving the factory, each product is hydraulically tested. An advanced testing laboratory simulates the anticipated field conditions.

With distribution in more than 70 countries world-wide, a key component of the DOROT difference is its outstanding customer service. This includes field assistance, technical advice, training programs and follow-up consultations.

It is all of these factors that make DOROT a leader in fluid control technology and customer satisfaction.

