

80 Series

REINFORCED NYLON CONTROL VALVES

Globe and angle plastic valves of the 80 Series, equipped with a fully supported diaphragm, guarantee rapid and precise control of irrigation systems.



Optimal protection



Efficient installation



Flexible

/ Benefits & Features

- **Optimal protection** Tight closing & quick opening is achieved by a rigid plug mechanism that is suitable for high pressure applications and responds rapidly to water pressure fluctuations
- **Efficient installation** The valves are available in both globe and angle shapes and therefore eliminate the use of elbow joints and extending pipelines
- **Flexible** Available with full range of control functions, various end connections, and a selection of 2-way and 3-way bonnets with integral accessories

/ Specifications & Recommendations

- Maximum Pressure – 10 bar (145psi)
- Minimum Recommended Flow – 1m³/h (5gpm)
- Minimum Operating Pressure – 0.5 bar (7psi)*
- Maximum Operating Temperature – 60°C (140°F)

→ Hydraulic Performance

Shape			Straight		Angle			
	inch		1½	2	1½	2	3	4R*
Diameter	inch							
	mm		40	50	40	50	80	100
Flow Rate Factor**	Kv (metric)		35	45	45	60		180
	Cv (US)		40	52	55	70		208

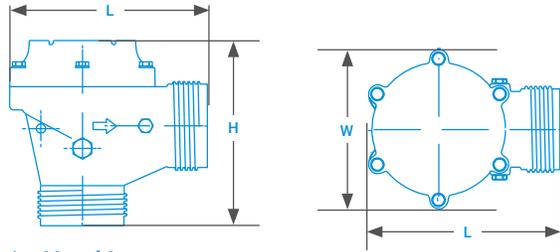
* R: Reduced, 4R: 434"

** 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

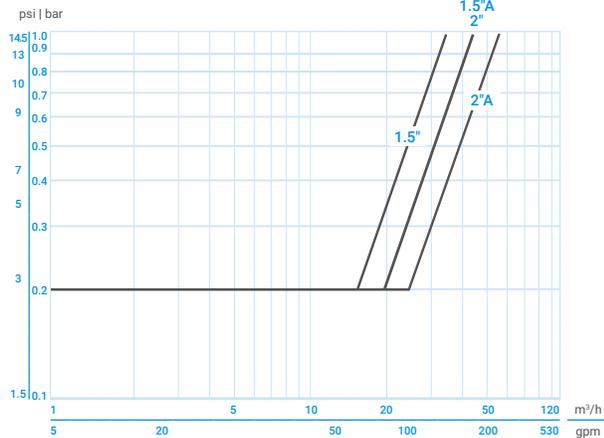
Shape			Straight		Angle			
	inch		1½	2	1½	2	3	4"R*
Diameter	inch							
	mm		40	50	40	50	80	100
Height	H	mm / inch	159 / 6.23	166 / 6.54	171/6.73	171 / 6.73	175 / 6.9	175 / 6.9
Width	W	mm / inch	163 / 6.42	127 / 5.00	163 / 6.42	163 / 6.42	195 / 7.67	195 / 7.67
Length	L	mm / inch	165 / 6.49	165 / 6.49	88 / 3.46	88 / 3.46	354 / 14	390 / 15.3
Control chamber volume		cc / gal	100 / 0.02	100 / 0.02	100 / 0.02	100 / 0.02	400 / 0.10	400 / 0.10
Weight		kg / lbs	0.9 / 2	0.9 / 2	0.8 / 1.8	0.8 / 1.8	3.8 / 8.3	4.2 / 9.2

* Dimensions for these diameters include flanges

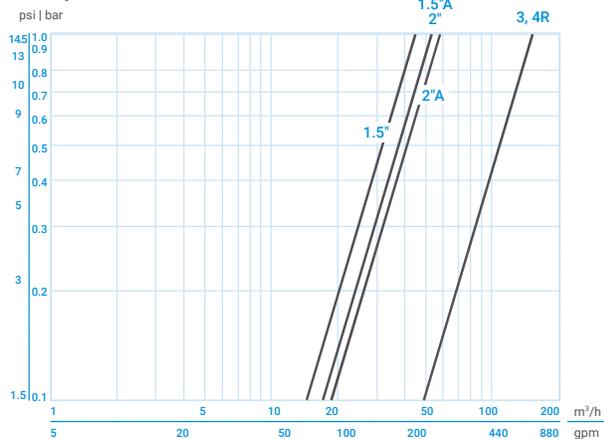


→ Head Loss

2-Way Valves



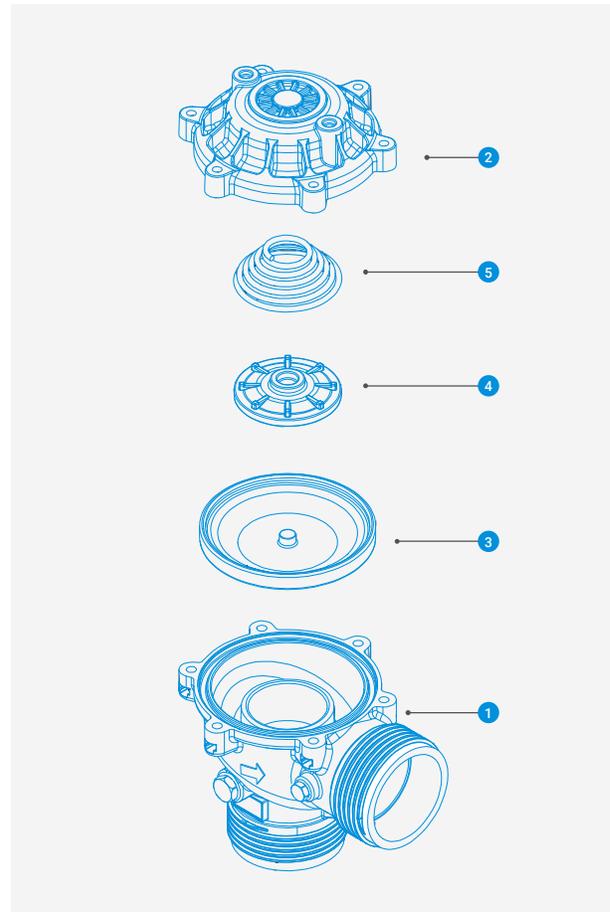
3-Way Valves



→ Material Specifications

#	Part	Material
1	Body	Reinforced nylon
2	Bonnet	Reinforced nylon
3	Diaphragm*	Natural rubber, EPDM
4	Spring seat	Nitrile rubber
5	Spring	SST 302

Optional parts for special chemical resistance



80 Series 3/4" - 1"

REINFORCED NYLON CONTROL VALVES

2-Way electric valve specially designed for landscape and greenhouses.



Long-lasting performance



High durability



Versatility

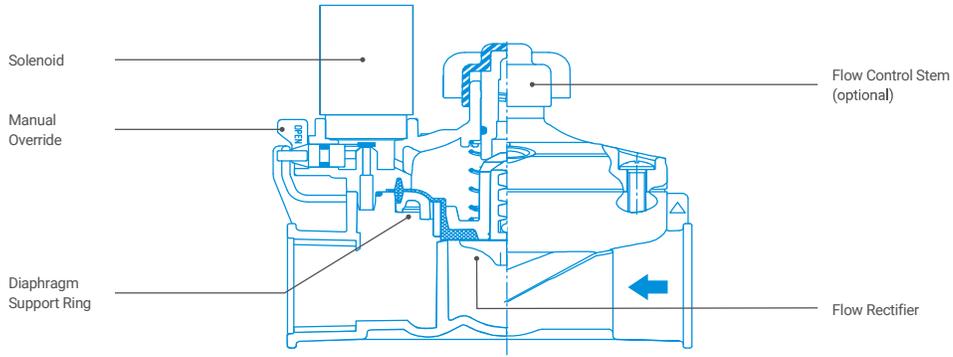
/ Benefits & Features

- **Cost effective** Simple reliable and economical
- **High durability** Corrosion-free materials
- **Versatility** Operation at wide range of flow rates from near zero to maximal flow
- **Global pattern valve** Activated by a fully-supported diaphragm
- **Opening** Internal bleed manual override
- **Optional** Removable flow control stem handle

/ Specifications & Recommendations

- **Maximum Pressure** – 10 bar (145psi)
- **Minimum Operating Pressure** – 0.5 bar (7psi)
- **Maximum Operating Temperature** – 60°C (140°F)
- **Standard** – 24 VAC 50/60 Hz. ±10%
- **Optional** – Other voltage rating or latching DC operators

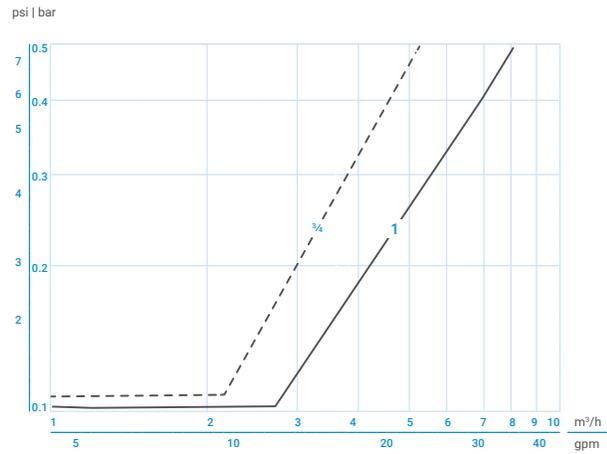
→ Components



→ Technical Dimensions

Diameter		inch	¾	1
		mm	40	25
Height	H	mm / inch	109 / 4.3	112 / 4.4
Width	W	mm / inch	75 / 3	75 / 3
Length	L	mm / inch	98 / 3.9	103 / 4.1
Weight		kg / lbs	0.28 / 0.62	0.29 / 0.6

→ Head Loss



80 QR Series

REINFORCED NYLON CONTROL VALVES

The 80 QR Series is a pilot-operated, universal quick-relief valve, that is designed for the pressure-surge protection of pumps, filtration systems and pipelines.



Long-lasting performance



High durability



Versatility

/ Benefits & Features

- **Fast opening and slow, regulated closure** Prevents shuttering and secondary surges
- **Extremely accurate** Will open and close at the same pressure setting
- **Up to 10 bar** Wide operation pressure range, from as low as 0.5 bar and up to 10 bar
- **High Flow/ Low Pressure** Designed for high flow rates while maintaining extremely low pressure losses

/ Specifications & Recommendations

- **Maximum Pressure** – 10 bar (145psi)
- **Maximum Operating Temperature** – 60°C (140°F)

→ Hydraulic Performance

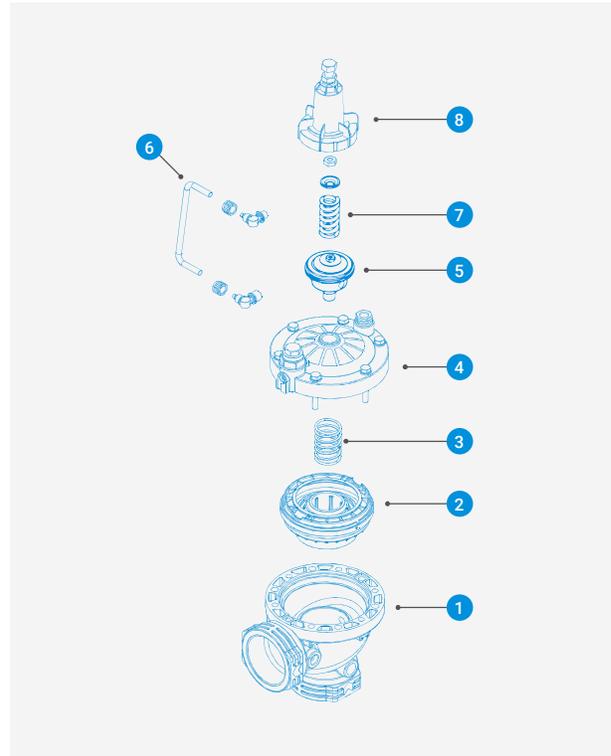
Based on Flow Rate (m³/h)

Diameter / bar	Set Point (bar)									
	1	2	3	4	5	6	7	8	9	10
1½"	37	52	64	74	82	90	97	104	110	130
2"	46	66	80	93	104	114	123	131	139	150
3"	120	170	208	240	268	294	317	339	360	385

→ Material Specifications

#	Part	Material*
1	Body	GRP
2	Diaphragm assembly	GRP, NR, EPDM
3	Main spring	SST
4	Bonnet	GRP
5	Pilot-valve base	GRP, SST, NR
6	Control tube	PP
7	Adj. spring	SST
8	Pilot-valve bonnet	GRP

* Optional parts for special chemical resistance



80 W Series

DUAL OUTLET CONTROL VALVES

Netafim presents the 80 W Series - high-quality dual valves, designed for agriculture applications. A great combination of affordability, ease of use, and a durable construction.



Long-lasting performance



High durability



Versatility

/ Benefits & Features

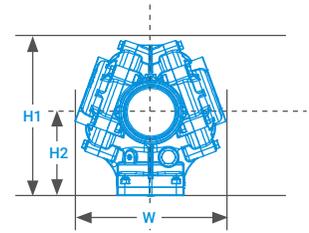
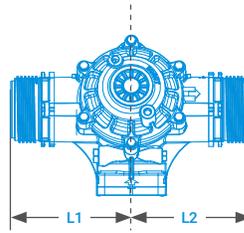
- **Clever design** Specially created for irrigation when one inlet and two independent outlets are required
- **Wide operation pressure range** As low as 0.5 bar up to 10 bar
- **Low pressure losses** Even in high flow rates
- **Versatility** Allows for a wide range of control applications

/ Specifications & Recommendations

- **Maximum Pressure** – 10 bar (145psi)
- **Minimum Recommended Flow** – 1m³/h (5gpm)
- **Minimum Operating Pressure** – 0.5 bar (7psi)*
- **Maximum Operating Temperature** – 60°C (140°F)

→ Technical Dimensions

Dimensions	Metric / US	
H1	mm / inch	259 / 103/16
H2		139 / 51/2
L1	mm / inch	194 / 765/16
H2		202 / 791/2
W	mm / inch	250 / 97/8
Weight	kg / lbs	4.4 / 9.7



→ Hydraulic Performance

1 Open Outlet	Kv	m ³ /h@ 1bar	105
	Cv	gpm @ 1psi	121
2 Open Outlets	Kv	m ³ /h@ 1bar	210
	Cv	gpm @ 1psi	242

→ End Connections

Inlet: 3" / 80mm BSP/NPT Female-threaded Metric	
Outlets:	BSP/NPT Female-threaded
	3" and 4" Universal flanged
	3" Grooved (Optional)

→ Head Loss

