

SERIES 80 NYLON CONTROL VALVES

QUICK REACTION AND DRIP-TIGHT CLOSURE FOR PRECISE AND ACCURATE IRRIGATION



**3/4" & 1" GLOBE
2-WAY ELECTRIC CONTROL
VALVES**



**1 1/2" GLOBE
2-WAY ELECTRIC CONTROL
VALVES**

FEATURES

- Suitable for high pressure applications with quick reaction to opening and closing.
- Exceptionally low inrush and holding current allows the longest wire run from valve to controller.
- Tight sealing valve with fully supported diaphragm.
- Stable solenoid to voltage fluctuations - no diode solenoid.
- Integrated check valve on 1 1/2" size ensures valve remains closed until the controller designates opening.
- Optimal for vertical installations.

PRODUCT ADVANTAGES

- Flow control stem allows manual control from full closure up to maximum capacity.
- Suitable for dirty water applications with clog-free labyrinth inlet for command water.
- Quick reaction to opening and closing and a drip-tight seal for accurate irrigation.
- Available in multiple body configurations and control functions.
- Very low friction loss allows valve use with a wider range of flows.
- Durable, corrosion resistant materials for long life.

APPLICATIONS

- Greenhouse and Nursery irrigation including hydroponic and mist systems
- For remote control, master valve, automated or manual operations
- For mild corrosive and mild acidity levels in the water

SPECIFICATIONS

- Recommended Flow Ranges:
3/4" valve - .01 to 26 GPM *
1" valve - .01 to 44 GPM *
1 1/2" valve - .25 to 110 GPM
- Valve Configurations:
3/4" and 1" valves - Globe
1 1/2" Globe
- Standard 2-Way Electric Normally Closed Valve
- Minimum Operating Pressure: 7 psi
- Maximum Operating Pressure: 150 psi
- Maximum Water Temperature: 140° F
- Standard Solenoid Voltage: 24VAC ± 10% voltage
- Solenoid Inrush Current: .22A
- Solenoid Holding Current: .095A

MATERIALS

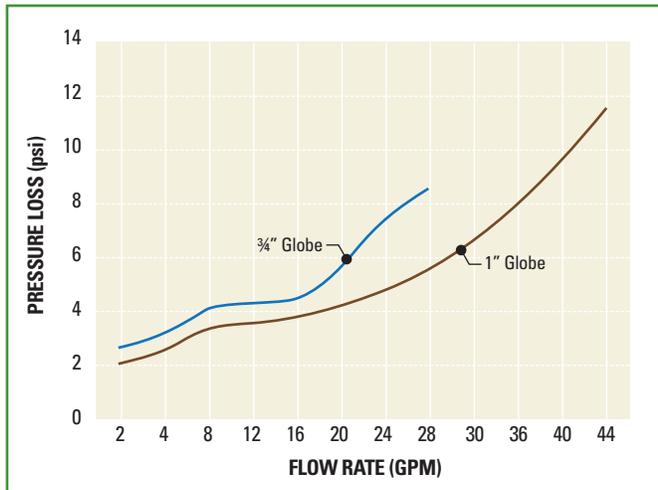
- Body, Bonnet, Diaphragm Seat: Glass Reinforced Polyamide (GRP)
- Nuts, Bolts, Washers: Stainless Steel 304
- Spring: Stainless Steel AISI 302

* Minimum flow tested by Center for Irrigation Technology, Fresno, California, November 2010

TECHNICAL INFORMATION

2-WAY SERIES 80 NYLON CONTROL VALVES

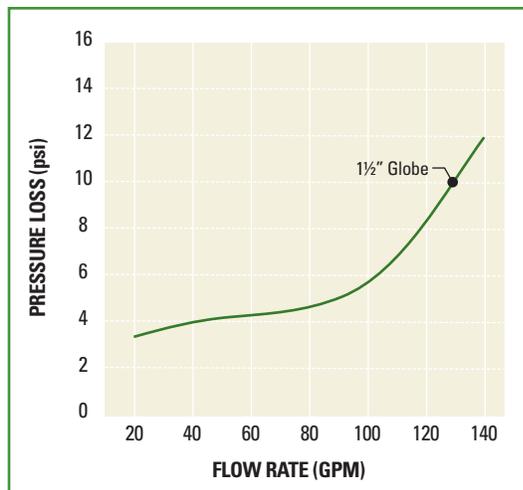
¾" & 1" FLOW RATE VS. PRESSURE LOSS *



FLOW RATE AND PRESSURE LOSS

FLOW (GPM)	PRESSURE LOSS (psi)	
	¾" GLOBE	1" GLOBE
2	2.5	2.0
4	3.0	2.5
8	4.0	3.4
12	4.1	3.5
16	4.4	3.9
20	5.5	4.1
24	7.5	4.7
28	8.5	5.4
32	-	6.5
36	-	8.0
40	-	9.5
44	-	11.5

1½" FLOW RATE VS. PRESSURE LOSS *



FLOW RATE AND PRESSURE LOSS

FLOW (GPM)	PRESSURE LOSS (psi)
	1 ½" GLOBE
20	3.3
40	4.0
60	4.3
80	4.5
100	5.5
120	8.5
140	12

ORDERING INFORMATION

STANDARD 24VAC VALVES

PART NUMBER (HAWTHORNE)	MODEL NUMBER (NETAFIM)	FLOW RANGE (GPM)	VALVE SIZE
HGC747713	LVET.75GH2	0.01 to 26	¾" Globe
HGC747715	LVET1GH2	0.01 to 44	1" Globe
HGC747754	61ET1.5GH2	0.25 to 110	1 ½" Globe