

# SERIES 75 NYLON CONTROL VALVES



**MANUAL NYLON  
THREADED VALVE**



**MANUAL NYLON  
FLANGED VALVE**



**2950M  
PILOT**

## PRODUCT ADVANTAGES

- **Simple and Reliable Design**  
Highly resistant to fertilizers and chemicals.
- **Outstanding Performances**  
High flow capacity and very low head losses achieved by a flexible diaphragm that provides a wide water passage throughout the valve's hydrodynamic body.
- **Ultimate Durability**  
Long life and easy inline maintenance accomplished by structural simplicity and high-quality corrosion-free materials.
- **Extremely Versatile**  
Gal plastic valves are available with full selection of control functions and various end connections.

## APPLICATIONS

Series 75 Control Valves - designed to operate and protect irrigation networks in field crops, vineyards, orchards, and greenhouses.

## MATERIALS

- Body and Bonnet: Reinforced Nylon (\*Optional: Polypropylene)
- \*\*Diaphragm: Natural Rubber (\*Optional: ALD, EPDM)
- Spring: SST 302, (\*Optional: SST 316)

\*Optional parts for special chemical resistance  
\*\* Wide selection of pressure ranges

## SPECIFICATIONS

		PERFORMANCE		PRESSURE RANGE (psi)		MAX TEMP	DIMENSIONS		PALLET
SIZE	*CONNECTIONS	Cv	MAX. FLOW (GPM)	LOW PRESSURE DIAPHRAM	HIGH PRESSURE DIAPHRAM	°F	LENGTH	WEIGHT (lbs)	QUANTITY
3/4"	TH	9	26	9 - 114	13 - 114	140	4-1/2"	0.4	
1"	TH	18	44	9 - 114	13 - 114	140	4-7/8"	0.4	
1 1/2"	TH	70	110	5 - 145	10 - 145	140	7-3/8"	2.0	
2"	TH	82	176	5 - 145	10 - 145	140	7-7/8"	2.2	
323	TH	93	396	5 - 145	10 - 145	140	9-3/8"	3.1	
3" SuperGal	TH	140	440	6 - 145	6 - 145	140	10-1/8"	6.8	
343	TH, F	290	812	4 - 175	4 - 175	140	18-5/8"	12.8	22
4"	F, G	410	900	4 - 175	4 - 175	140	14-5/8"	13.1	24
646	F	430	960	4 - 175	4 - 175	140	16-1/2"	17.5	20

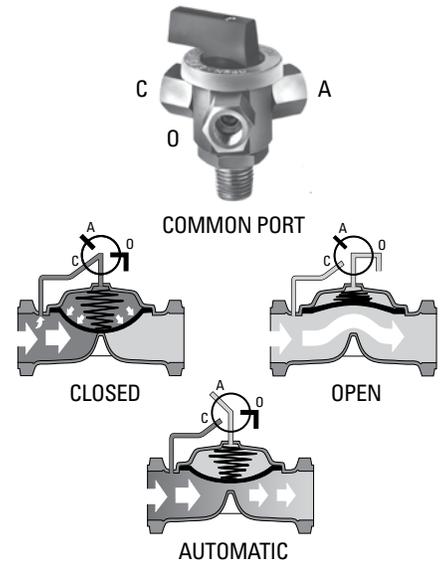
\*TH = Threaded, F = Flanged, G = Grooved



## SERIES 75 NYLON CONTROL VALVES

### MANUAL VALVE OPERATION WITH A 3-WAY SELECTOR

- **CLOSED (C):** Upstream pressure or pressure from an external source is applied to the control chamber. Initiated by the spring, the diaphragm is pressed down to close the valve drip-tight.
- **OPEN (O):** Relieving the water or air pressure to the atmosphere from the control chamber causes the valve to open.
- **AUTOMATIC (A):** The automatic port of the 3-Way selector is connected to a solenoid, hydraulic relay or pilot which controls the valve. The common port of the 3-Way selector connects the control chamber to either A, O or C, depending on the direction the selector is pointed.



### FLOW RATE vs. FRICTION LOSS

SIZE	Cv	FLOW RATE (GPM)					
		10	20	30	40	50	60
3/4"	9	1.2	4.9	11.1			
1"	18	0.3	1.2	2.8	4.9	7.7	11.1

SIZE	Cv	FLOW RATE (GPM)											
		60	100	140	180	220	260	300	340	380	420	460	
1 1/2"	70	0.7	2.0	4.0	6.6	9.9							
2"	85	0.5	1.5	2.9	4.8	7.2	10.1						
3/2"	93	0.4	1.2	2.3	3.7	5.6	7.8	10.4					
3" SG	140	0.2	0.5	1.0	1.7	2.5	3.4	4.6	5.9	7.4	9.0	10.8	



SIZE	Cv	FLOW RATE (GPM)													
		250	320	390	460	530	600	670	740	810	880	950	1020	1090	
3/4"	290	0.7	1.2	1.8	2.5	3.3	4.3	5.3	6.5	7.8	9.2	10.7			
1"	410	0.4	0.6	0.9	1.3	1.7	2.1	2.7	3.3	3.9	4.6	5.4	6.2		
1 1/2"	430	0.3	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.5	4.2	4.9	5.6	6.4	

### VALVE INSTALLATION TIPS

- **THREADED VALVES:** Use a few layers of Teflon sealer compound on the adapter and tighten by hand. Use a wrench to tighten the adapter another half revolution.
- **SOCKET OR 'SLIP' VALVE WITH PVC PIPE:** Use the same procedure as when cementing PVC pipes. Mark the pipe first, then apply glue to the socket of the valve and the PVC pipe. Insert the pipe until reaching the mark and rotate a quarter turn. Hold the joint in place until the cement hardens.
- **INSTALLATION ABOVE GROUND:** When installing a manifold above ground, the length of the manifold should be kept as short as possible (this eliminates the need for additional support). For longer lengths, a firm support under the horizontal pipes is recommended. Always install the valve with the bonnet exposed to the sun.
- **FOR FLANGED VALVES:** Tighten bolts using the 'star' method so there is even distribution of torque on the bolted connections.



**NETAFIM USA**  
 5470 E. HOME AVE.  
 FRESNO, CA 93727  
 CS 888 638 2346  
 www.netafimusa.com