

PVC Valves

Micro-Irrigation



Application:

These versatile 1" valves include key standard features such as flow control, manual internal and external bleed that are popular with agriculture and greenhouse growers. The valves' wide flow ranges makes them a good fit for a host of applications. These economical valves have a good reputation and a five year warranty making them an easy choice for growers.

A-2500TF Features:

- Self aligning bonnet permits fast and easy servicing without removal from the system
- Debris-tolerant, patented floating metering system suitable for well water and dirty water applications
- Captured hex/Phillips screws



- Flow control allows precise flow adjustment and manual shutoff
- Removable, tamper resistant flow control handle

A-2400TF "Jar Top" Features:

- Threaded bonnet design allows easy servicing without removal from the system
- Flow control allows precise flow adjustment and manual shutoff



Quality Construction:

- Rugged, double-beaded SANOPRENE™ diaphragm provides leak-proof seal
- Heavy-duty, corrosion and UV-resistant PVC construction with stainless steel spring and hardware
- Buna-N valve seat seal
- High strength ribbed bonnet
- Injection molded solenoid with a captive plunger

Operating Specifications:

- Flow range: 0.25-30 GPM (1-155 L/M)
- Pressure Range: 10-150 PSI (0.7-10 Bars)

Electrical Specifications:

- Solenoid: 24 VAC
- Inrush volt-amp: 24 VAC-11.50 VA
- Holding volt-amp: 24 VAC-5.75 VA
- Holding current: 0.2 amps
- Inrush current: 0.4 amps
- DC Latching solenoid (DCL) optional

Pressure Loss in PSI

U.S. -1" NPT			Flow Rate (GPM)						
Model	Size	Style	0.25	2	5	10	15	20	30
A-2400TF	1"	Globe	5.0	4.6	3.5	4.0	3.0	3.3	6.2
A-2500TF	1"	Globe	5.4	3.9	3.0	2.2	1.9	3.1	5.1

Pressure Loss in Bar

Metric -1" BSP			Flow Rate (L/M)							
Model	Size	Style	1	8	20	40	60	80	100	120
A-2400TF-BSP	1"	Globe	0.35	0.32	0.24	0.30	0.21	0.23	0.30	0.38
A-2500TF-BSP	1"	Globe	0.37	0.24	0.21	0.16	0.14	0.23	0.37	0.52

note: *50 HZ solenoids are standard on BSP valves.

PVC Valves



Application:

The 1½" **A-216B** and 2" **A-217B** PVC valves have built their popularity on a proven track record of reliability in agriculture and greenhouse applications. Their key features include flow control, manual bleed, and porting for use in globe and angle configurations. These versatile valves are ideal for a wide range of agricultural applications.

Features:

- Manual internal bleed
- Manual external bleed
- Slow-closing design reduces water hammer
- Flow control allows precise flow adjustment and manual shut off

Performance:

- Flow range: 20-120 GPM
- Pressure range: 20-150 PSI

Quality Construction:

- Heavy-duty, corrosion and UV-resistant PVC construction with stainless steel spring and hardware
- Rugged, double-beaded SANOPRENE™ diaphragm provides leak-proof seal
- Buna-N valve seat seal
- High strength ribbed bonnet and bottom inlet
- Unique, O-ring seal on the threaded inlet plug prevents leaking
- Injection molded solenoid with captive plunger
- Easily serviced without removal from the system
- Unique three-way stainless steel bonnet screws accept Phillips, flat-blade and hex-drive tools

Operating Specifications:

- Flow range: 20-120 GPM (75-454 L/M)
- Pressure Range: 10-150 PSI (0.7-10 Bars)

Electrical Specifications:

- Solenoid: 24 VAC
- Inrush volt-amp: 24 VAC-11.50 VA
- Holding volt-amp: 24 VAC-5.75 VA
- Holding current: 0.2 amps
- Inrush current: 0.4 amps
- DC Latching solenoid (DCL) optional

Specifying Information

Model	Size	Thread	Flow Control
A-216B	1½"	NPT	Yes
A-217B	2"	NPT	Yes
A-216B-BSP	1½"	BSP	Yes
A-217B-BSP	2"	BSP	Yes

Pressure Loss in PSI

U.S.		Flow Rate (GPM)									
Model	Size	Style	20	30	40	50	60	80	100	120	
A-216B	1½"	Globe	3.0	2.7	2.4	3.0	4.0	5.7	-	-	
		Angle	2.8	2.3	2.0	2.3	3.1	4.5	-	-	
A-217B	2"	Globe	2.0	2.0	1.8	1.6	1.7	3.0	4.9	6.4	
		Angle	2.0	2.0	1.8	1.6	1.6	2.2	3.3	4.9	

Pressure Loss in Bar

Metric		Flow Rate (L/M)									
Model	Size	Style	80	100	150	200	250	300	375	450	
A-216B-BSP	1½"	Globe	0.21	0.19	0.16	0.23	0.32	0.38	-	-	
		Angle	0.19	0.17	0.14	0.17	0.24	0.30	-	-	
A-217B-BSP	2"	Globe	0.14	0.14	0.12	0.11	0.14	0.20	0.33	0.43	
		Angle	0.14	0.14	0.12	0.11	0.12	0.15	0.22	0.33	

note: *50 HZ solenoids are standard on BSP valves.

©2012 The Toro Company
 Micro-Irrigation Business
 1588 N. Marshall Avenue, El Cajon, CA 92020-1523, USA
 Tel: +1 (800) 333-8125 or +1 (619) 562-2950
 Fax: +1 (800) 892-1822 or +1 (619) 258-9973

toro.com

ALT148 06/08



Count on it.