



Count on it.

252 Series Plastic Valves

V A L V E S

252 Series valves' durability is a fit for commercial applications, while their plastic construction makes them an economical option. With several models to choose from, including contaminant-resistant valves, 252 Series provides flexibility.

COMMERCIAL



Toro 252 Series Plastic Valves

1"—2" (25–50mm) Electric, 1½" and 2" (40–50mm) Pressure-regulating, 2" (50mm) Normally Open Hydraulic, and 1½" (40mm) Pin-type Hydraulic Valves

Features

- Globe/Angle configuration
- Stainless steel seat (1½" and 2" models) (40 and 50mm models)
- Fabric-reinforced rubber diaphragm (1½" and 2" models) (40 and 50mm models)
- Rubber diaphragm (1" model) (25mm model)
- Manual flow control: adjustable to zero flow (250 Series)
- Manual bleed screw
- Energy-efficient solenoid

- 24" (60cm) lead wires (1½" and 2" electric) (40 and 50mm) or 18" (45cm) lead wires (1" electric models) (25mm electric models) for easy-access installation
- Self-cleaning, stainless steel metering pin (electric models)
- Stainless steel diaphragm differential spring for smooth, positive closing
- Single-piece diaphragm for reliable, leak-free valve closing
- Built-in Schrader-type valve (pressure-regulating models)
- Removable, self-flushing, 120-mesh stainless steel screen (pressure-regulating models)
- Tough, glass-filled Zytel® cap provides stability under pressure
- Durable engineering plastic and stainless steel construction for exceptional stability
- Recycled water flow control knob available
- Two-year warranty



Specifications

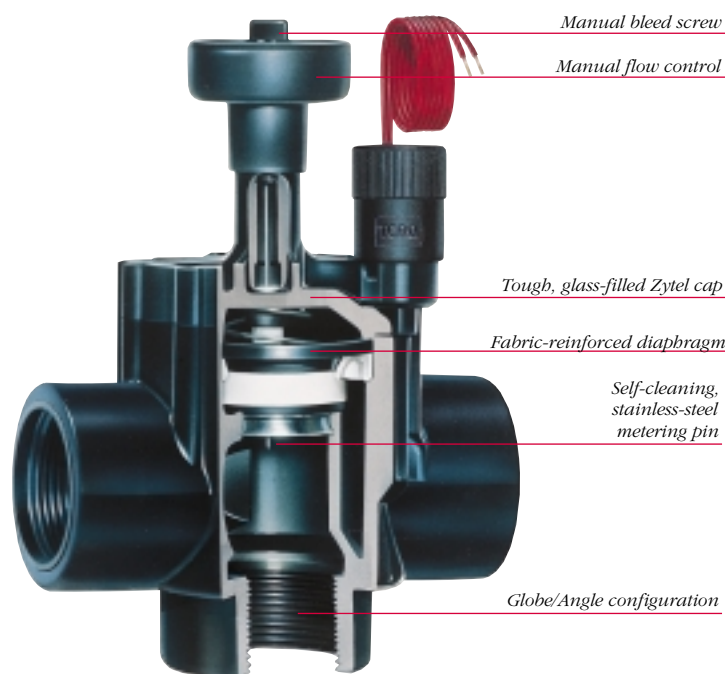
- Flow range:
 - 1"—5.0–40.0 GPM (25mm—19–151 LPM)
 - 1½"—25.0–120.0 GPM (40mm—95–454 LPM)
 - 2"—60.0–180.0 GPM (50mm—227–681 LPM)
- Operating pressure: 20–150 psi (1.4–10 Bar)
- Burst pressure safety rating: 750 psi (50 Bar)
- Body styles:
 - Globe/Angle valve—1", 1½" or 2" (25, 40 or 50mm) female-threaded inlet and outlet
 - BSP threads available
- Solenoid 1" (25mm) valve: 24 V ac (50/60Hz)
 - Inrush: 0.30 amps, 7.20 VA
 - Holding: 0.20 amps, 4.80 VA
- Solenoid (1½" and 2" [40 and

50mm] valves): 24 V ac (50/60Hz)

- Inrush: 0.30 amps, 7.20 VA
- Holding: 0.20 amps, 4.80 VA
- Dimensions:
 - 1"—6¾" H x 4½" W (25—171 x 114mm)
 - 1½"—7¾" H x 6" W (40—197 x 152mm)
 - 2"—9½" H x 7" W (50—241 x 178mm)

Optional Accessories:

- DC Latching solenoid assembly (E2002)
- 24VDC solenoid assembly (R576804)
- Recycled water lavender solenoid assembly and tag (RW60-Kit)
- 24 V ac potted solenoid assembly (89-9580)
 - 50-60 Hz, 24" leads
 - Inrush: 0.37 amps, 8.80 VA
 - Holding: 0.30 amps, 7.20 VA
- EZR-30 (5–30 psi pressure-regulation module)
- EZR-100 (5–100 psi pressure-regulation module)



252 Electric Valve

Specifying Information

252 XX 0X	
Activation Type	Size
06—1" (25mm) Electric	4—1" (25mm)
20—1½" (40mm) Pin-type Hydraulic	6—1½" (40mm)
21—Normally Open Hydraulic	8—2" (50mm)
25—1½" or 2" (40 or 50mm) Electric, Debris-resistant	
26—1½" or 2" (40 or 50mm) Electric	

Example: A 1½" (40mm) pin-type hydraulic 252 Series Valve, would be specified as: **252-20-06**

Zytel is a registered trademark of DuPont.

Toro 252 Series Plastic Valves

Contamination-resistant 1½" and 2" (25–50mm) Electric Valves

Features

- Globe/Angle configuration
- Stainless steel seat
- Fabric-reinforced rubber diaphragm
- Removable, self-flushing, 120-mesh stainless steel screen
- Manual flow control: adjustable to zero flow
- Manual bleed screw

- Energy-efficient solenoid
- 24" (60cm) lead wires for easy-access installation
- Stainless steel diaphragm differential spring for smooth, positive closing
- Single-piece diaphragm for reliable, leak-free valve closing
- Tough, glass-filled Zytel® cap provides stability under pressure
- Durable engineering plastic and stainless steel construction for exceptional stability
- Recycled water flow control knob available



Specifications

- Flow range:
 - 1½"—25.0–120.0 GPM (25mm—25–455 LPM)
 - 2"—60.0–180.0 GPM (50mm—230–700 LPM)
- Operating pressure: 20–150 psi (1,4–10 Bar)
- Burst pressure safety rating: 750 psi (50 Bar)
- Body styles:
 - Globe/Angle valve—1½" or 2" (40 or 50mm) female-threaded inlet and outlet
 - BSP threads available
- Solenoid: 24 V ac (50/60Hz)
 - Inrush: 0.30 amps, 7.20 VA
 - Holding: 0.20 amps, 4.80 VA
- Dimensions:
 - 1½"—7¾" H x 6" W (40mm—197 x 152mm)
 - 2"—9½" H x 7" W (50mm—241 x 178mm)

252 Series Friction Loss Data—U.S.

Size	Type	Configuration	GPM Flow															
			5	10	20	25	30	40	50	60	70	80	100	120	150	170	180	
1½" (40mm)	Hydraulic	Globe Angle				1.0 1.0	1.0 1.0	2.0 1.5	3.0 1.5	4.0 3.0	5.5 4.0	6.5 5.0	10.5 7.0	13.5 11.0				
2" (50mm)	Hydraulic	Globe Angle								1.5 1.0	2.0 1.0	2.0 1.5	3.5 2.0	5.0 3.0	8.0 5.0	10.0 6.0	11.0 6.0	
1" (25mm)	Electric	Globe Angle	3.0 2.0	4.0 3.5	5.0 4.5	6.0 4.5	7.0 5.0	9.5 7.5										
1½" (40mm)	Electric	Globe Angle				1.5 1.5	1.0 1.0	2.0 1.5	3.0 2.0	4.0 3.0	5.0 3.0	7.0 5.0	11.0 7.0	15.0 9.0				
2" (50mm)	Electric	Globe Angle								2.0 1.0	2.0 1.0	2.5 2.0	3.5 3.0	5.5 4.0	8.0 5.0	10.0 6.0	11.0 7.0	

Note: For optimum performance when designing a system, be sure to calculate total friction loss to ensure sufficient downstream pressure. For optimum regulation performance, size regulating valves toward the higher flow ranges. Values shown in psi.

252 Series Friction Loss Data—Metric

Size	Type	Configuration	LPM Flow													
			25	50	75	100	125	150	175	200	250	300	400	500	600	700
40mm (1½")	Hydraulic	Globe Angle				0,07	0,09	0,14	0,18	0,23	0,34	0,44	0,78	1,06		
						0,07	0,08	0,10	0,10	0,13	0,25	0,34	0,56	0,93		
50mm (2")	Hydraulic	Globe Angle									0,14	0,17	0,27	0,43	0,61	0,79
											0,07	0,13	0,23	0,30	0,37	0,52
25mm (1")	Electric	Globe Angle	0,2	0,30	0,34	0,42	0,53	0,65								
			0,2	0,26	0,31	0,32	0,40	0,51								
40mm (1½")	Electric	Globe Angle				0,10	0,11	0,14	0,18	0,23	0,32	0,47	0,84	1,20		
						0,09	0,08	0,10	0,12	0,16	0,21	0,33	0,52	0,70		
50mm (2")	Electric	Globe Angle									0,14	0,17	0,28	0,45	0,61	0,79
											0,07	0,13	0,23	0,30	0,37	0,52

Note: For optimum performance when designing a system, be sure to calculate total friction loss to ensure sufficient downstream pressure. For optimum regulation performance, size regulating valves toward the higher flow ranges. Values shown in bar. For kPa values, multiply tabular values by 100. For Kg/cm² values, multiply tabular values by 1,02.

Specifying Information

252	25	X	X
Body Threads		Size	
0—NPT		6—1½" (40mm)	
5—BSP		8—2" (50mm)	

Example: A 1½" (40mm) Contamination-resistant 252 Series Valve with NPT threads, would be specified as: **252-20-06**

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