

TORO.

Count on it.

TPV Series Valves

Valves

The search for a full-featured yet economically priced, residential and commercial valve is over thanks to Toro's newest 1" valve offering—the TPV Series. These full-featured, rugged, debris-resistant valves feature flow ranges from 0.1 to 40 GPM, making them ideal for everything from drip to high-flow residential and light-commercial applications. Choose from a variety of inlet and outlet selections to ensure that all site specific requirements are met. The patented DBS™ (Debris Bypass System) technology allows small particles to pass through the valve without clogging. Add a 5-year warranty and rest assured that the TPV Series will become your workhorse valve for all professional installations.

Features & Benefits

Tough Double-Beaded, Chloramine and Ozone-Resistant Santoprene® Diaphragm

Ensures a consistent, leak-proof seal all the way up to 175 psi.

Patented DBS (Debris Bypass System) Technology™

Metering system ensures proper functionality, even in tough environments.

Multiple Body Styles

Choose from various styles to meet any installation requirement.

Wide Range of Flows and Pressure

One valve for all site specific needs.

Robust Solenoid Design

Ensures reliable opening and closing.

 Effluent
Options
Available



Specifications

AC Solenoids

Model	Description
• TPV100	1" Female NPT, In-Line, w/o Flow Control
• TPVF100	1" Female NPT, In-Line, w/Flow Control
• TPV100MM	1" Male Thread x Male Thread, In-Line, w/o Flow Control
• TPVF100MM	1" Male Thread x Male Thread, In-Line, w/Flow Control
• TPV100S	1" Slip x Slip, In-Line, w/o Flow Control
• TPVF100S	1" Slip x Slip, In-Line, w/Flow Control
• TPV100MB	1" Male Thread x Barb, In-Line, w/o Flow Control
• TPVF100MB	1" Male Thread x Barb, In-Line, w/Flow Control

DC Solenoids

Model	Description
• TPVF100DC	1" Female NPT, In-Line, w/ Flow Control, DCLS-P
• TPVF100MMDC	1" Male Thread x Male Thread, In-Line, w/ Flow Control, DCLS-P
• TPVF100SDC	1" Slip x Slip, In-Line, w/Flow Control, DCLS-P
• TPVF100MBDC	1" Male Thread x Barb, In-Line, w/Flow Control, DCLS-P

Dimensions

- 5 1/8" H, 2 3/4" W, 5" L

Operating Specifications

- Flow Range: 0.1 to 40 GPM
- Operating Pressure: Electric – 10 to 175 psi
- Burst pressure safety rating: 1000 psi
- Solenoid: 24 VAC (50/60 Hz) Standard (102-7053)
 - Inrush: 0.4 amps
 - Holding: 0.2 amps

Additional Features

- Rugged, Double-Beaded Santoprene diaphragm
- Patented DBS™ (Debris Bypass System) technology
- Operates in low-flow and landscape drip applications when a filter is installed upstream
- Built with either AC or DC Latching Solenoids
- Manual Operation without the use of a controller—Internal and External Bleed
- Captured hex/Phillips screws
- Optional flow control allows precise zone adjustment and manual shutoff
- Encapsulated injection-molded solenoid with a captured plunger
- Removable flow control handle to ensure vandal-resistance
- Slip models feature patented Glue Stop™
- Self-aligning bonnet permits fast and easy servicing
- Large directional flow arrows

Options Available

- EFF-Kit-60Hz - Recycled Water Solenoid Assembly and Watering Tag
- DCLS-P - Potted DC Latching Solenoid Assembly

Warranty

- Five years



Double-Beaded Ozone and Chloramine Resistant Santoprene Diaphragm

The thick double-beaded diaphragm ensures a smooth and positive sealing. Being ozone-resistant means the durability of the diaphragm is not compromised when water is being treated by ozones. And for systems with heavy salt content, it's also Chloramine-resistant. The diaphragm fits in the valve in any position allowing for simple servicing should the need ever arise.



Glue Stop™

TPV Slip-by-Slip models include a patented feature which ensures that the installer can not block the downstream port of the valve during installation so that it opens and closes properly. This Glue Stop feature means that PVC with primer and cement on it will not get far enough into the valve to allow glue on any portion that could cause the valve to fail. It's a safety-system built to handle what a valve installation can dish out.

Water Management Highlight

DBS Technology™ (Debris Bypass System)

DBS is a patented vibrating metering pin and diaphragm assembly that allows for small particles to pass through the valve without clogging.



TPV Friction Loss data

GPM Flow	.10	.25	5	10	15	20	30	40
PSI Loss	2.0	2.0	3.5	3.9	3.0	3.3	7.0	13

Specifying Information—TPV

TPVX100XXXX				
Description	Flow Control	Size	Body Style	Solenoid
TPV	X	100	X X	XX
TPV—TPV Valve	F—With Flow Control	100—1"	MM—Male X Male S—Slip MB—Male X Barb	DC—DCLS-P Latching Solenoid
Example: A 1" TPV Valve with slip configuration and flow control would be specified as: TPVF100S				

