

Model 12-PV-PRD / 34-PV-PRD

Pressure Reducing Valve (1/2" & 3/4")

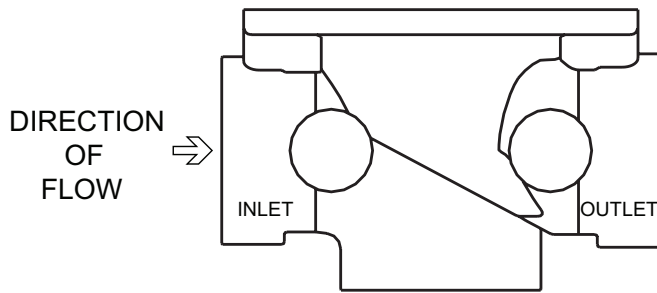


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Maintenance Instructions

MAINTENANCE (1/2" PV-PRD VALVE)

The PV-PRD pressure reducing control valve may be installed in any position. The flow direction is shown below. Flow goes from the narrow side to the wide side of the cast body.



DISASSEMBLY

Prior to disassembly, relieve all pressure from the valve.

- Secure valve body and remove main cap on bottom of valve using an adjustable wrench.
- Next remove adjustment cover (plastic cover), 3/8" adjustment bolt with nut, 8 socket head screws around the pilot bell using a 5/32 hex key, spring, and spring disc.
- Use the 5/32 hex key in the plunger screw and a wrench on the diaphragm nut to unscrew one end of the stem.
- At this point the PRV stem is free to move and can be slid out of the valve body.
- Continue to remove the 5/16" diaphragm nut, lock washer, and upper diaphragm retainer, diaphragm, diaphragm o-ring, lower diaphragm washer, stem guide, stem o-ring, and plunger from the stem.
- After complete disassembly, thoroughly clean and inspect all components before reassembly. Replace any parts as necessary after inspection.
- The pilot seat generally does not need to be removed, but if after inspection it requires replacement it can be removed with a 1-1/8" socket.

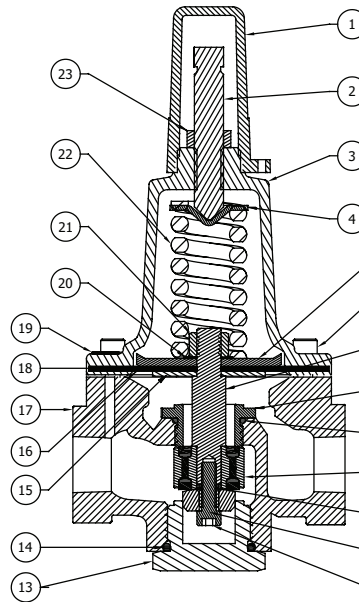
1/2" PV-PRD VALVE

REASSEMBLY

Reassembly of the PV-PRD is the reverse of disassembly.

- Install the lower diaphragm washer (with round edge toward the diaphragm), new o-ring, followed by new diaphragm and diaphragm retainer. Then place lock washer over stem threads along with the 5/16" diaphragm nut and tighten.

- Next slide stem assembly into body through pilot seat.
- Then slide the plunger onto the stem via the main cap hole followed by the small stem o-ring, stem guide and cap screw. While holding diaphragm nut, tighten the cap screw with Allen wrench.
- Install main cap in bottom of valve body with new o-ring.
- Install spring, spring disc, and pilot bell on the valve body.
- Insert socket head screws into pilot bell holes and thread into valve body. Tighten all screws in a cross pattern.
- Install adjusting screw by hand with jam nut. Set valve once reinstalled into pipe system. For further assistance or ordering replacement parts go to www.zurn.com or call product support 877-222-5356.



ITEM	DESCRIPTION
1	ADJUSTMENT COVER
2	3/8-16 ADJUSTMENT BOLT
3	PILOT BELL, BRASS
4	SPRING DISC, SS
5	DIAPHRAGM DISC, SS
6	10-32x5/8 SOC HEAD CAP SCREW
7	ACL STEM SHAFT
8	RELIEF PILOT SEAT, SS
9	O-RING, BUNA NITRILE, NSF LISTED
10	ACL PLUNGER ASSY.
11	STEM O-RING
12	WASHER STEM GUIDE
13	1/2 PRD MAIN CAP
14	O-RING, BUNA-N, NSF LISTED
15	DIAPHRAGM WASHER
16	DIAPHRAGM
17	BODY, CAST SILICON BRASS
18	O-RING, BUNA NITRILE NSF LISTED
19	UL TAG RED, BRASS
20	5/16" INT TEETH LOCKWASHER
21	5/16-18 DIAPHRAGM NUT
22	20-200 PSI SPRING
23	3x8-16 JAM HEX NUT

PV-PRD SPECS:

Adjustment Range Pressure: 30 - 250 psi
 (Flowing residual outlet pressure)
 Max Inlet Pressure: 400 psi



Installation Instructions

Before installing the pressure reducing valve, flush out the line to remove loose dirt and scale which might damage the plunger and seat. Install the valve according to the illustration shown on the first page. All valves will be furnished with stock settings. To readjust reduced pressure, loosen the outer locknut and turn the adjustment bolt clockwise (into the bell housing) to raise the reduced pressure, or counterclockwise (out of the bell housing) to lower the reduced pressure. The valve may be installed in a horizontal or vertical position.

Troubleshooting

<u>PROBLEM</u>	<u>POSSIBLE CAUSES</u>	<u>CORRECTIVE ACTION</u>
1. Outlet pressure is above set pressure	<ol style="list-style-type: none">1. The spring is over compressed2. Foreign matter obstruction3. Cut, worn or chipped plunger seal or seat.4. Damaged diaphragm or stem o-ring	<ol style="list-style-type: none">1. Loosen the adjusting screw2. Disassemble and remove obstruction, replace parts as necessary3. Replace with new plunger or seat.4. Disassemble and replace diaphragm or o-ring
2. Outlet pressure is below set pressure	<ol style="list-style-type: none">1. Weak or no spring compression2. Spring damaged3. Spring disc out of place4. Foreign matter between plunger or stem guide and main cap	<ol style="list-style-type: none">1. Turn adjusting screw in to increase pressure regulation2. Disassemble and replace spring as needed3. Disassemble and replace or adjust spring disc as needed4. Disassemble and remove obstruction
3. Leakage from valve	<ol style="list-style-type: none">1. Damaged diaphragm, stem or main cap o-ring2. Ports not sealed3. Loose diaphragm nut	<ol style="list-style-type: none">1. Disassemble and replace damaged part as needed2. Remove and reinstall port fittings Teflon tape or pipe sealant3. Disassemble and re-tighten the diaphragm nut

NOTICE: Annual inspection and maintenance is required of all plumbing system components. To ensure proper performance and maximum life, this product must be subject to regular inspection, testing and cleaning.

WARRANTY: ZURN WILKINS Valves are guaranteed against defects of material or workmanship when used for the services recommended. If in any recommended service, a defect develops due to material or workmanship, and the device is returned, freight prepaid, to ZURN WILKINS within 12 months from date of purchase, it will be repaired or replaced free of charge. ZURN WILKINS' liability shall be limited to our agreement to repair or replace the valve only.

WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects and other reproductive harm

ADVERTENCIA: Este producto contiene una sustancia química que el Estado de California como causante de cáncer, defectos de nacimiento y otros daños reproductivos

