

WATER PRESSURE REDUCING VALVE

INTRODUCTION

This instruction manual includes specifications, installation, operation and maintenance information for the FNW figure 1201 standard capacity water pressure reducing valve.

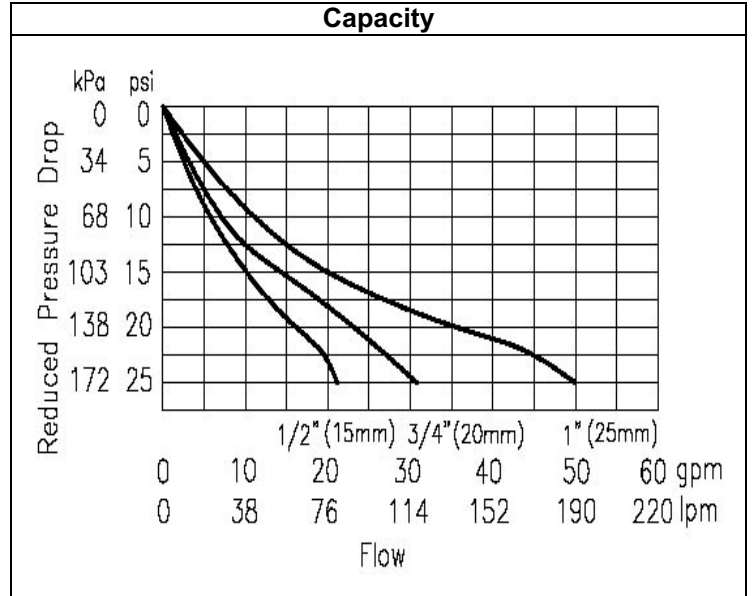
SPECIFICATIONS

Specifications are included to ensure proper selection and sizing of the pressure reducing valve.

Specifications
Maximum Working Water Pressure: 300PSI
Maximum Working Water Temperature: 160°F
Reduced Pressure Range: 25PSI to 75PSI
Factory Preset Pressure: 50 PSI

Standards
ASSE 1003 (ANSI A112.26.2)
CSA B356
IAPMO UPC
ANSI/NSF61-8

CALIFORNIA PROPOSITION 65 WARNING
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (Installer: California law requires that this warning be given to the consumer.)



INSTALLATION

WARNING

To avoid personal injury to your self, others, or damage to property from release of process fluid, before installation:

- a. Shut off all operating lines to the valve site
 - b. Isolate the valve site completely from the process
 - c. Release process pressure
 - d. Drain the process fluid from the valve site
1. Before installing the valve, inspect the valve body port and associated equipment for any damage that may have occurred and for any foreign matter that may have collected in shipping or storage. Make certain the body interior is clean.
 2. Before installing the valve, inspect the pipe line and threaded ends, making sure the pipe is free of foreign material and the threads are clean and have no burrs or pits that could cause leakage.
 3. This regulator has a built-in thermal expansion bypass. If the inlet pressure is higher than the discharge setting of the water heater (typically 150PSI), or if there is a check valve or backflow preventer installed on the line, the provision must be made for pressure relief protection to protect the plumbing system and its components.
 4. The valve can be installed in any position (i.e. – vertical, horizontal, upright, or inverted). However, the valve must be installed with the arrow in the direction of water flow.

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5. The valve should be installed in an accessible location for future adjustment or maintenance.
6. Use pipe joint compound or sealer/lubricator that is compatible and approve for potable water service.
7. Remove the upstream union connection (16) by unfastening the union's hex nut (15). Be sure the rubber gasket (17) remains handy.
8. Slide the union nut (15) onto the upstream pipe with the thread facing downstream.
9. Attach the union end (16) to the upstream pipe using joint compound or thread sealer and tighten. **Do not apply joint compound to the union nut threads.**
10. Install the valve to the downstream pipe (the end of the valve marked "OUT") using joint compound or thread sealer. Tighten using a wrench on the end hex closest to the downstream pipe. **Do not use the body or the upstream hex to tighten the downstream side.**
11. Mate the upstream pipe/union to the valve placing the rubber gasket (17) between. Slide the union nut (15) over the threads and hand-tighten. Make sure the pipe is straight through the valve. With a wrench, tighten the union nut 1/2 to 3/4 turns past hand tight.
12. When the water supply is turned on again, check for leakage at the union joint. If leakage is present, tighten the union nut (15) at 1/4 turn intervals until it stops. Check again for any external leaks after "final" installation and setting.

OPERATION

1. To set the downstream pressure, loosen the locknut (2). Turn the adjusting bolt (1) clockwise to increase downstream pressure, counterclockwise to decrease pressure.

MAINTENANCE

Valve parts are subject to normal wear and must be inspected and replaced as necessary. Inspection and maintenance frequency depends on the severity of the service conditions. This section includes instructions for packing adjustments, repacking, seat replacement and seating adjustment.

WARNING

To avoid personal injury to self, fellow workers, or damage to property from release of process fluids, before maintenance, shut of supply pressure to valve.

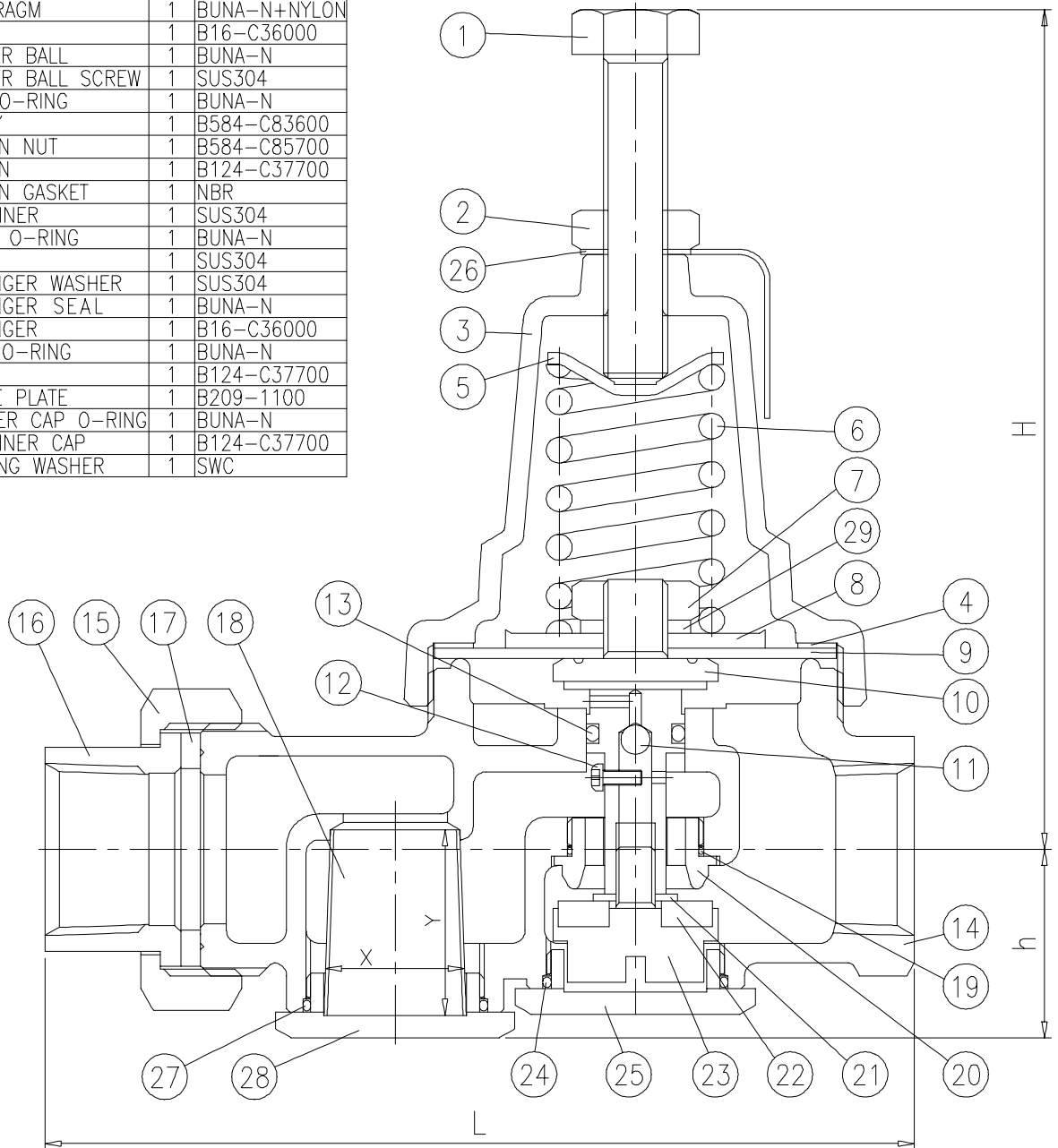
1. To clean the strainer, unfasten the strainer cap (28). Remove, clean strainer.
2. To replace the seat disc, loosen lock nut (2) and back off the adjustment bolt (1). Unscrew and remove the bonnet (3), spring (6), and spring disc (5). Remove cap (25) and cap o-ring (24). Hold on top of stem while loosening the seat plunger (23) from the bottom of then stem (10). Replace the seat (20).
3. To replace the diaphragm, loosen the diaphragm nut (7) and remove the disc (8) and diaphragm. Replace the diaphragm.
4. Reassemble all components. When reassembling, apply a drop of low strength thread lock to the disc holder.
5. Inspect all water system safety and control valves annually.

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NO	PART	PCS	MATERIAL
1	ADJUSTMENT BOLT	1	A283-D
2	LOCK NUT	1	AISI-1010
3	BONNET	1	B584-C85700
4	FRICTION RING	1	A283-D
5	SPRING DISC	1	A283-D
6	SPRING	1	SWC
7	DIAPHRAGM NUT	1	AISI-1010
8	DIAPHRAGM DISC	1	A283-D
9	DIAPHRAGM	1	BUNA-N+NYLON
10	STEM	1	B16-C36000
11	RUBBER BALL	1	BUNA-N
12	RUBBER BALL SCREW	1	SUS304
13	STEM O-RING	1	BUNA-N
14	BODY	1	B584-C83600
15	UNION NUT	1	B584-C85700
16	UNION	1	B124-C37700
17	UNION GASKET	1	NBR
18	STRAINER	1	SUS304
19	SEAT O-RING	1	BUNA-N
20	SEAT	1	SUS304
21	PLUNGER WASHER	1	SUS304
22	PLUNGER SEAL	1	BUNA-N
23	PLUNGER	1	B16-C36000
24	CAP O-RING	1	BUNA-N
25	CAP	1	B124-C37700
26	NAME PLATE	1	B209-1100
27	STRAINER CAP O-RING	1	BUNA-N
28	STRAINER CAP	1	B124-C37700
29	SPRING WASHER	1	SWC

SIZE	L	H	h	X	Y	Mesh	Wt.(lbs)
1/2"	5.28	5.12	1.14	1.18	0.87	24	3.029
3/4"	5.28	5.12	1.14	1.18	0.87	24	2.989
1"	6.26	5.71	1.54	1.50	1.02	20	4.716

units: inch



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