

Series UPRS ULTRA-PURE PRESSURE REGULATORS

INSTALLATION & MAINTENANCE INSTRUCTIONS IMPORTANT – BEFORE INSTALLING

Series UPRS Pressure Regulators will prevent downstream pressure from exceeding the set pressure, when properly installed and used within the recommended ranges of pressure, temperature, and chemical compatibility. The ultimate determination of material compatibility is previous successful use in the same application. See the Series UPRS Product Data Sheet or call our Technical Support for information about your application.

Caution:

- 1. Plastic materials will degrade in ultraviolet (UV) light or sunlight.
- 2. Polypropylene and PVDF (Kynar) look similar. Do not install if you are not sure.
- Quick closing valves installed downstream of the regulator can cause water hammer. This may cause leakage, diaphragm or seal damage.

TABLE 1 - RATINGS AND SPECIFICATIONS

Set Pressure Range	10-100 PSI	0.69 to 7 Bar
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TABLE 2 - MAXIMUM INLET PRESSURES FOR WATER*

Body	Color	77°F	104°F	At Maximum
Material		(25°C)	(40°C)	Temperature
Kynar	Translucent White	150 PSI	120 PSI	22.5 PSI@ 280°F
PVDF	Yellowish	10.3 Bar	8.27 Bar	1.5 Bar @ 140°C
PTFE	Opaque White	150 PSI	140 PSI	Consult Factory
		10.3 Bar	9.65 Bar	·

or compatible chemical - ratings reduced for some applications. Minimum temperature 40°F (5°C).

INSTALLATION INSTRUCTIONS

Install the valve in the proper flow direction as indicated by the **flow arrow on the valve body**. The valve may be mounted vertically or horizontally.

Spigot Connections - For heat fusion, follow the instructions supplied with the fusion equipment, or contact your distributor.

Mounting – The piping must be properly supported, taking into account the weight of the valve, piping, and process liquid. A bracket or shelf to support the valve must be used.

PRESSURE SETTINGS INSTRUCTIONS

Series UPRS pressure regulators sense downstream pressure; therefore it may be helpful to install a pressure gauge upstream and downstream of the regulator.

- 1. Install the regulator in the piping system. Close all downstream outlets to stop flow. The inlet pressure must be higher than the desired set pressure.
- 2. Loosen the pressure adjusting lock nut and set the pressure adjusting screw at the top of the regulator approximately half way in to start.
- 3. Slowly open the valve upstream of the regulator to let fluid into the system and not slam the regulator with a surge of pressure.
- 4. Adjust the set pressure only when the valve is pressurized. From the top looking down: clockwise (in) will increase set pressure, counterclockwise (out) will decrease the set pressure. If going from a high pressure setting to a lower set pressure, some fluid may have to be released from the downstream side of the regulator in order to let the downstream pressure drop.
- 5. When the desired set pressure is achieved and the unit is under pressure, retighten the adjusting screw lock nut. Do not overtighten.



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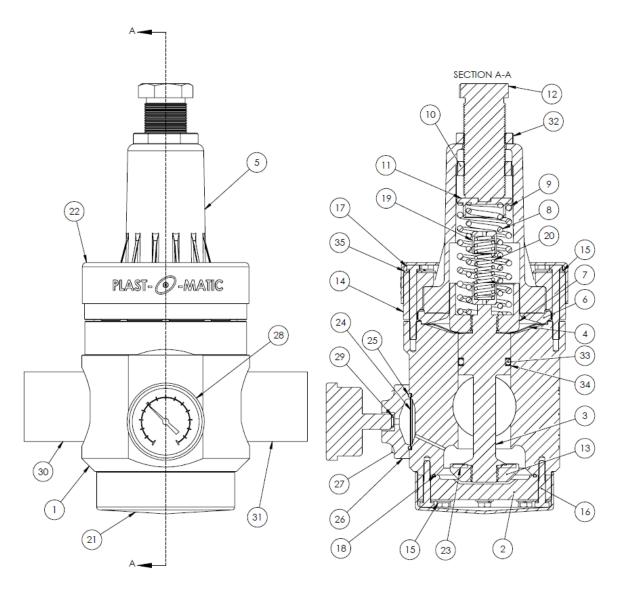
CAUTIONARY NOTE:

If the system is to be shut down for a length of time, a valve upstream of the regulator should be closed and pressure downstream should be released. This will relieve stress on the regulator components when not in use.

MAINTENANCE

Plast-O-Matic recommends keeping a spare seal kit available for repairs. Seal life will vary in applications due to cycles, temperatures, pressures, chemicals, and concentration. Based on the application, a periodic inspection and maintenance plan should be established. The seal kit part number is "SK" plus the part number less the material suffix. For example, the seal kit for UPR050TPF-SO is SKUPR050TPF-SO.

TABLE 4 - PARTS LIST



REFER TO TABLE ON NEXT PAGE



ITEM NO.	DESCRIPTION	
1	BODY W/GAGE L-R	
2	BASE PLATE	
3	SHAFT	
4	TFM DIAPHRAGM	
5	SPRING HOUSING	
6	DIAPHRAGM RING	
7	SPRING RETAINER	
8	XYLAN COATED SS SPRING	
9	XYLAN COATED SS SPRING	
10	THREADED ADAPTOR	
11	SPRING GUIDE	
12	ADJUSTING SCREW	
13	SEAT RETAINER	
14	CLAMP RING	
15	SS / XYLAN LOCKWASHER, 1/4"	
16	XYLAN COATED SS SCREW 1/4-20 X 1-	
17	1/2" XYLAN COATED SS TAP BOLT 1/4-20 X 2,5"	
18	FEP O-RING	
19	SMALL SPRING SUPPORT	
20	XYLAN COATED SS SPRING	
21	VINYL BOTTOM CAP FOR UPR200	
22	UPRS 150-200 VINYL TOP CAP	
23	FFKM SEAT GASKET	
24	PVDF GAUGE GUARD DIAPHRAGM	
25		
26	GAUGE GUARD TOP	
27	XYLAN COATED SS SCREW	
28	SS PRESSURE GAUGE, CENTERBACK, 2.5" DIA	
29	VITON O-RING	
30	SYGEF STRAIGHT SPIGOT	
31	SYGEF ANGELED SPIGOT	
32	HDPE LOCK NUT	
33	FFKM 0325 O-RING	
34	TFM PISTON CHANNEL SEAL	
35	SS / XYLAN FLAT WASHER, 1/4"	

Note: Gauge version shown. Item numbers 24-29 are not included on non-gauge guard version.



