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Elmwood Park, NJ 07407
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PRH-06-02T ECONOMY REGULATOR
Stainless Steel In-Line High Pressure Regulator (Reducing Valve) Specifications

- Spring and Piston Operated
- ¼" NPT Threaded
- Inlet Pressures Up To 6000 PSIG (413 BAR)
- Outlet Pressures From 0-2500 PSIG (0-172 BAR)
- Maximum Operating Temperature of 200°F (93°C)
- In Line Serviceable
- Inlet Strainer
- Outlet Gauge Port Standard (Gauge not Included)
- Stainless Steel Construction
- Hydraulic Piston Seal
- Panel Mount
- Non-Relieving and Self-Relieving Design Available
- ANSI B16.104 Class VI Seat (Bubble Tight)

Features

- **Pressure-containing parts** made from solid bar stock materials — unlike castings which have wall thickness variations.
- **Body and trim:** Standard material is type 316L stainless steel. An optional 303 stainless steel construction is offered at a reduced cost.
- **Hydraulic Piston Seal:** Used for high pressure dynamic sealing applications where rolling and O-ring extrusion are common. This seal is superior to traditional O-ring configurations and is fabricated from durometer 70A (Hard) Buna elastomer assisted by two backup rings.
- **Spring chamber and adjusting spring:** These parts are non-wetted, not in contact with the fluid or gas, and standard in 316L stainless steel. An optional 303 stainless steel construction is offered at a reduced cost.
- **Standard porting:** In line NPT threaded porting with additional outlet gauge port. Valve works in any orientation, upright as illustrated, horizontal, etc.
- **Inline Serviceable:** Capable of being serviced inline. The process lines must be depressurized before any servicing of this product. Changing the seat can be done by taking off only the bolted seat holder exposing the wetted components, (seat, piston, plug, etc.).
- **Inlet Strainer:** Reliability and lifecycle are enhanced with fluids and gasses that contain no unwanted debris or large particulate. A #60 mesh strainer comes standard to ensure the integrity of the components.
- **Panel Mounting:** Standard mounting nut gives the capability for the valve to be fixed to a control panel.
- **Other options:** Self-relieving and non-relieving designs both available for purchase. The self-relieving design is provided at additional cost.

Applications

Designed for clean, filtered or strained, non-abrasive, non-harmful liquid and gas service: oils, lubricants, greases, solvents, non-fluorinated chemicals, inert and industrial gasses compatible with Buna and Teflon PTFE seals. **This product is not intended for oxygen services.** This type of regulator is commonly used in industrial applications providing steady pressure to equipment that would otherwise fail due to the incoming fluid pressures of tanks or its supply source. The valve is piston-operated and is capable of performing in any mounting position; vertical, horizontal etc. Reliable and economic solution for various pressure regulating applications.

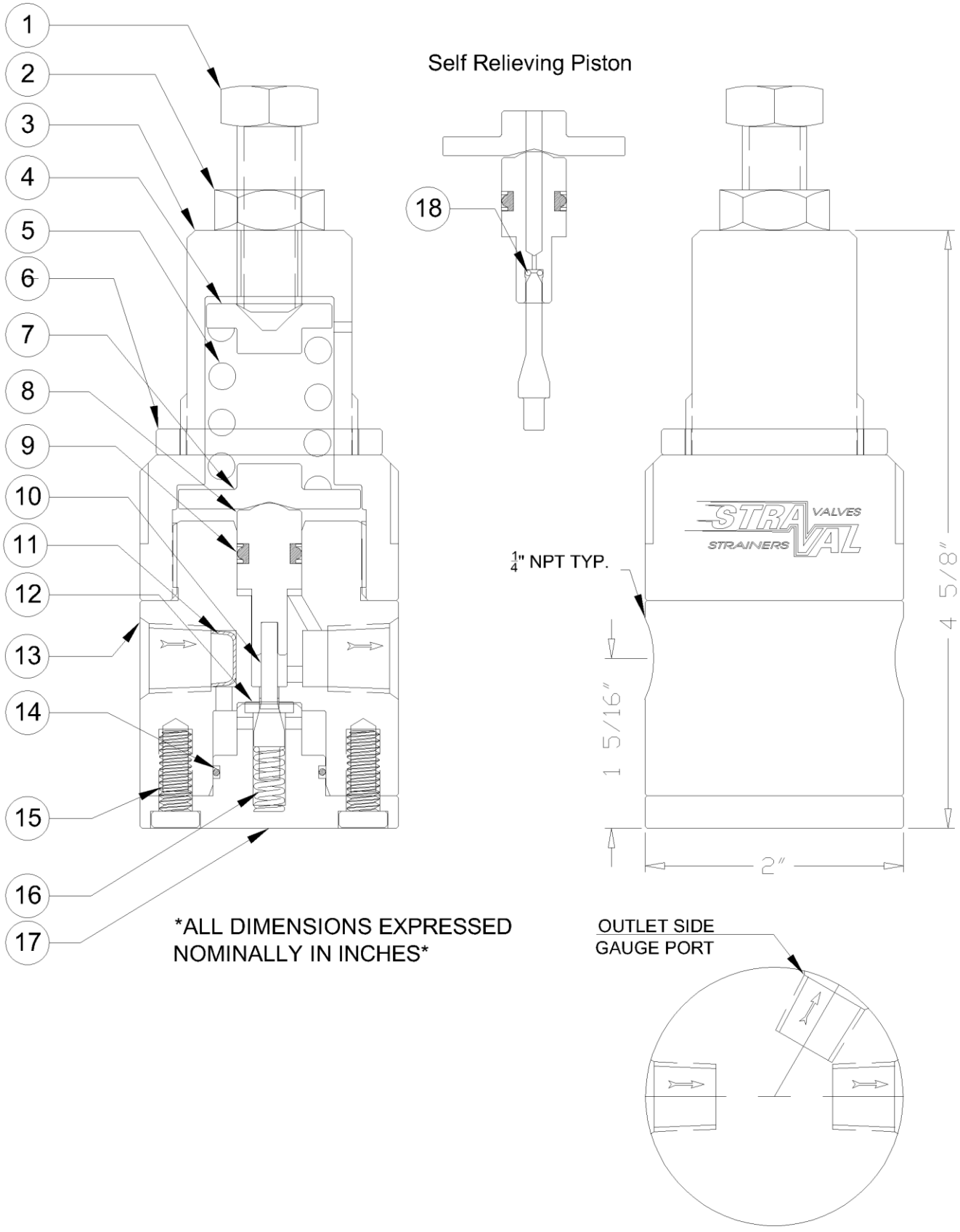
Options

- Self-relieving (R nomenclature) and Non-relieving (NR nomenclature) designs available
- Wetted materials (8,10,12,13,17) in type 303 stainless steel.
- Non-wetted materials (1,2,3,4,6,7) in type 303 stainless steel.

Principle of Operation

This valve operates with a compression spring acting on the main valve which is used to adjust the outlet pressure with an adjusting screw. The reduced outlet pressure is very easily adjusted in the field. To increase outlet pressure, simply loosen adjusting screw lock nut (2) to increase spring compression by turning the adjusting screw (1) clockwise. Similarly, to get a lowering in outlet pressure requires a reduction in spring compression by turning the screw counterclockwise. A pressure gauge can be fixed directly on the body of the valve to monitor outlet pressures. When changing the pressure set point, make sure a gauge is visible to safely monitor and control the desired adjustment. The valve will operate in a vertical orientation as illustrated, horizontal, or any other orientation.

Model PRH-06-02T Economy Regulator Schematics



Note: Dimensions are approximate and are subject to change without notice

MATERIAL LIST & SPECIFICATION

	PART	AVAILABLE MATERIALS
1	ADJUSTING SCREW	304, 316L STAINLESS STEEL
2	JAM NUT	304, 316L STAINLESS STEEL
3	SPRING CHAMBER	303, 316L STAINLESS STEEL
4	SPRING PUSHER	303, 316L STAINLESS STEEL
5	ADJUSTMENT SPRING	302 STAINLESS STEEL
6	MOUNTING NUT	303, 316L STAINLESS STEEL
7	SPRING FOLLOWER	303, 316L STAINLESS STEEL
8	PISTON	303, 316L STAINLESS STEEL
9	HYDRAULIC PISTON SEAL	BUNA
10	POPPET	303, 316L STAINLESS STEEL
11	#60 MESH FILTER	304, 316L STAINLESS STEEL
12	SEAT	PTFE
13	BODY	303, 316L STAINLESS STEEL
14	SEAT HOLDER ORING	BUNA
15	SEAT HOLDER SCREWS	304, 316L STAINLESS STEEL
16	SEALING SPRING	303, 316L STAINLESS STEEL
17	SEAT HOLDER	303, 316 STAINLESS STEEL
18	R-TYPE PISTON RELIEVING SEAL	BUNA

DIMENSIONAL SPECIFICATIONS REFER TO IMAGE ABOVE	
SIZE	CV
1/4" NPT	0.09

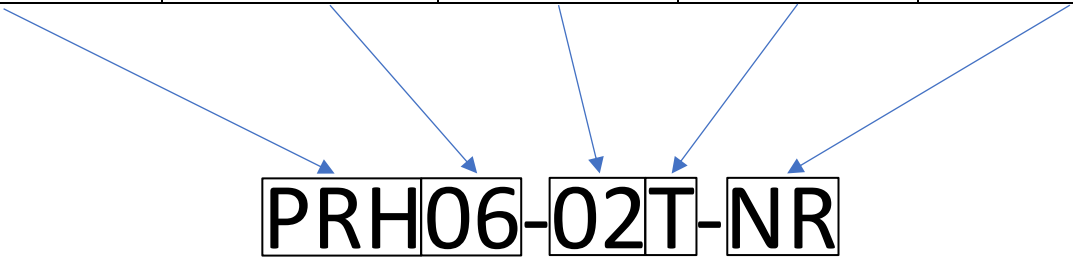
SEAL KIT PARTS FOR PRH-06-02T-R (SELF RELIEVING)			
#9	#11	#14	#18

SEAL KIT PARTS FOR PRH-06-02T-NR (NON-RELIEVING)		
#9	#11	#14

SEAL KITS ARE COMPRISED OF THE COMPONENTS USED TO SEAL NECESSARY PARTS ON THE PRODUCT. IT IS OPTIONAL AND PROVIDED AT AN ADDITIONAL COST.

Ordering Instructions and Nomenclature

Valve Type	Maximum Inlet Pressure	Connection Size	Connection Type	Options
PRH-High Pressure Regulator	06-6000 PSI	02-1/4”	T-FNPT	R-Relieving NR-Non-Relieving



The nomenclature above is specific to this product only