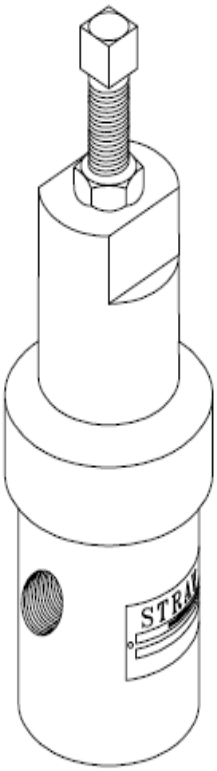
HBPR-BP Actuated Pressure Regulators

For many more sizes, details etc. please visit: https://straval.com/

Model PRS-09I THD IN-LINE PRESSURE-REDUCING VALVE



- Spring-diaphragm pressure-reducing valve
- 1/2"-2" NPT THD
- Inlet pressures to 300 PSI (20 Bar)
- Outlet pressures from 5 PSI to 75 PSI (5.1 Bar) (multiple spring ranges)

Features of Our Stainless Steel Valve

- **Water pressure regulator and air pressure regulator parts** made from solid bar stock materials — unlike castings which have wall thickness variations.
- **Body:** Standard valve materials are stainless steel (all sizes) and brass (1/2"-1" sizes only). Monel, titanium, Alloy 20, and Hastelloy also available.
- **Trim:** Stainless steel on valve poppet and seat is standard. Teflon sealing option is also available for air or gas service.
- **Teflon-Viton composite reinforced diaphragm** is designed for much greater poppet travel than the stainless steel diaphragm valve models PRS-05 and PRS-05-1. Teflon film on the wetted side provides superior protection when used as a corrosion-resistant valve for a wide range of fluids and gases, chemicals, petroleum products, and steam. Viton is used on the non-wetted side of the diaphragm. Max temperature rating is 250 °F sizes 1/2" & 3/4", and 350 °F sizes 1"-2".
- **In-line valve ports:** Simplifies installation for new or existing piping. This water pressure regulator and air pressure regulator valve can also be used as a steam pressure regulator and is also available with ANSI flanges (see PRS-09I-FLG). Our pressure-reduction valve is also available as a sanitary valve with sanitary flanges in all-stainless steel construction.
- **Spring chamber:** Standard material is carbon steel as it is non-wetted, but can be upgraded to a stainless steel valve when the external environment is corrosive or sanitary.

HBPR-BP Actuated Back Pressure Regulators

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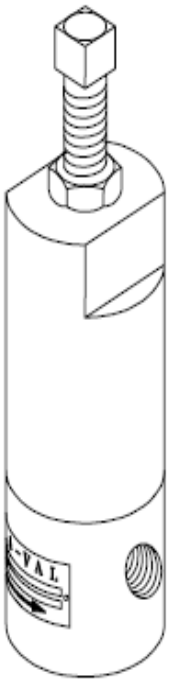
Model BPH-05 THD BACK PRESSURE-REGULATING VALVE



- Piston operated
- 1/8"-1/2" NPT THD
- Control pressures to 5000 PSI (340 Bar) (see table below)
- Stainless steel valve, brass valve, and exotic alloy valves

Pressure Regulating Valve Features

- **Pressure-containing parts** made from solid bar stock materials — unlike castings which have wall thickness variations.
- **Body:** A stainless steel valve is our standard and is available in type 303 and 316SS. Special alloys are available to make a Monel valve, titanium valve, brass valve, and Hastelloy valve.
- **Piston Valve/Poppet:** Type 303 or 316 stainless steel is standard. For very high pressures, hardened stainless steel is used.
- **Seal:** Standard elastomers are Viton, Buna, and EPDM. Other elastomers are also available.
- **In-line porting** is the standard piping arrangement.

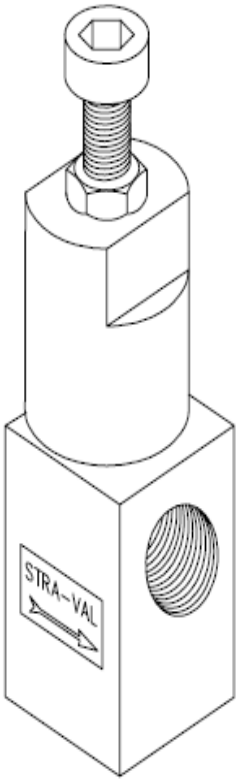
Pressure Control Valve Applications

This pressure control valve is used for very high back pressure control applications such as maintaining constant pump discharge pressures, bypassing excessive pressures from various types of process equipment, and wherever a constant pressure must be maintained in a process or piping system. This stainless steel valve can also be used for non-corrosive or mildly corrosive fluids, depending on the materials selected. When liquids or gases contain debris or other solid matter that might cause internal clogging or improper operation of the stainless steel valve, a filter or strainer with a fine wire mesh should be installed before the inlet of the back pressure valve. High-pressure in-line strainer fittings, basket strainers, and filters can be purchased from Stra-Val.

HBPR-BP Actuated Pressure Relief Valves

For many more sizes, details etc. please visit: https://straval.com/

Model RVC-04 THD ADJUSTABLE PRESSURE RELIEF VALVE



- 303 series stainless steel or brass (in stock)
- 1/2" NPT THD
- Adjustable relief pressures to 500 PSI (34 Bar)

Features

- **Pressure-containing parts** made from solid bar stock materials — unlike castings which have wall thickness variations.
- **Body:** Standard materials are 303 series stainless steel and brass. Special alloys (e.g. Monel, titanium, and Hastelloy) also available. Teflon body is also available.
- **Poppet:** 303 series stainless steel and brass are standard. Teflon is available for low pressure service (<100 PSI) and where required for corrosion resistance.
- **Elastomeric seal:** Choice of different elastomers including Teflon (PTFE) expands valve usage to a wide range of applications and fluids. Choice of elastomer determines final temperature limitation. Consult factory.
- **Spring chamber:** Standard construction is aluminum or carbon steel depending on relief pressures.
- **Right-angle porting:** Standard construction is bottom inlet, side outlet. Special threads also available.

Adjustable Relief Valve Applications

This adjustable relief valve should only be used for non-corrosive fluids, or where the materials selected are compatible with the fluid and will not cause corrosive buildup that could keep the poppet from opening. When liquids contain debris or other solid matter that might cause internal clogging or improper operation of the stainless steel valve, a strainer with a fine wire mesh should be installed before the inlet of the valve. In-line strainer fittings or basket strainers can be purchased from Stra-Val to solve this problem. This stainless steel valve should not be applied where ASME approval is required as it does not carry the ASME approval stamp. This stainless steel safety valve however is generally designed to meet their design, performance, and