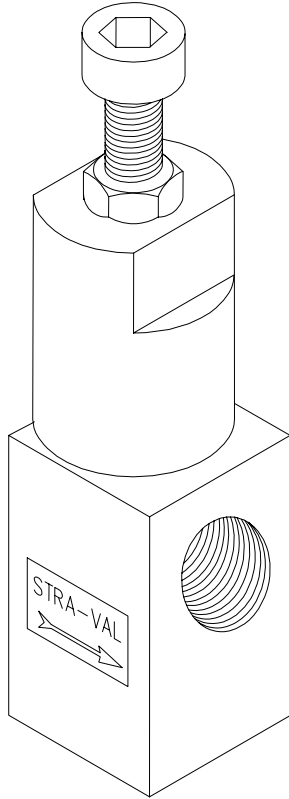


Model RVC-04 THD ADJUSTABLE PRESSURE RELIEF VALVE



- 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.

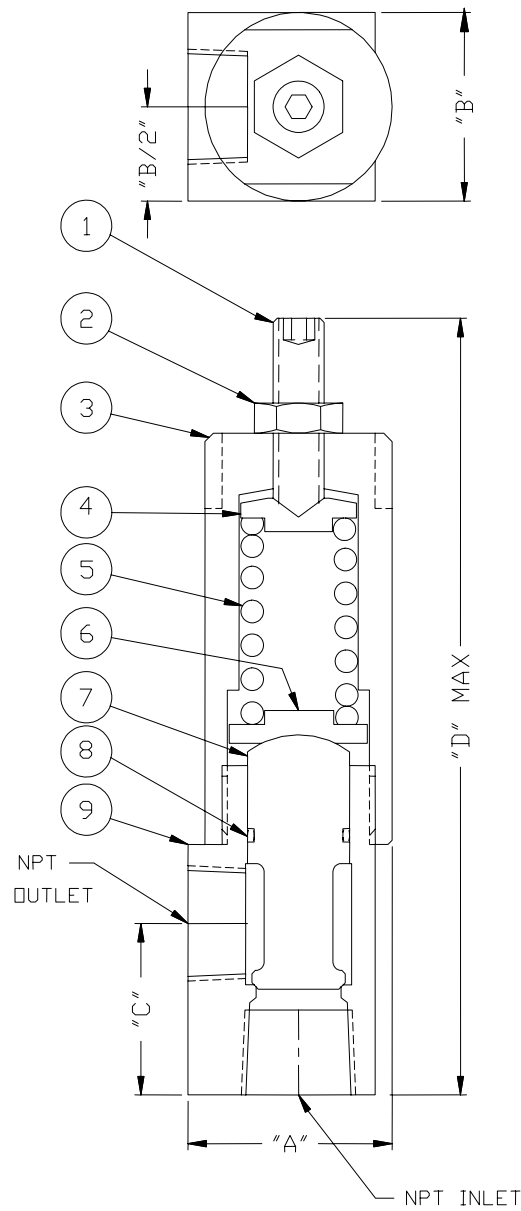
Adjustable Relief Valve Applications

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

test criteria. Unless otherwise specified, the stainless steel safety valve seat is sized to be at least equal to the inlet pipe diameter of a standard schedule pipe.

Principle of Operation

This is a poppet and spring type relief valve where the spring constantly opposes the pressure acting against the poppet which seals off the inlet port from the outlet port at the valve seat. The desired set pressure or relief is achieved by compressing the spring until the spring force is adequate to balance the pressure force acting against the poppet. When the inlet pressure exceeds the set pressure, the poppet will open to relieve the excess pressure.



Material List and Specification

1.	Adjusting screw	Steel
2.	Lock nut	Steel
3.	* Spring chamber	Aluminum, steel
4.	Spring pusher	Steel
5.	Adjusting spring	Steel
6.	Spring carrier	Steel
7.	† Poppet	303 stainless steel, brass
8.	‡ O-ring	Buna
9.	† Body	303 stainless steel, brass

* Aluminum used for low pressures

† Stainless steel standard or when required at higher temperatures

‡ Alternate elastomers available

Dimensions

Size	A	B	C	D
1/2	1-1/2	1-3/8	1-1/4	6

Note: Dimensions are approximate and are subject to change without notice. Request certified dimensions before final product installation.