

# Type 3171 Back Pressure Regulator - (1/2")

For steam, liquids and gases

3171-TB  
07/02

# Staitech

## Type 3171 Back Pressure Regulator - (1/2")

The Type 317 back pressure regulator is intended for steam, liquid and gas applications where a fractional sized regulator is required.

The valve is available with a wide range of spring options, which allows the downstream pressure to be controlled accurately between 0.34 and 13.8 barg.

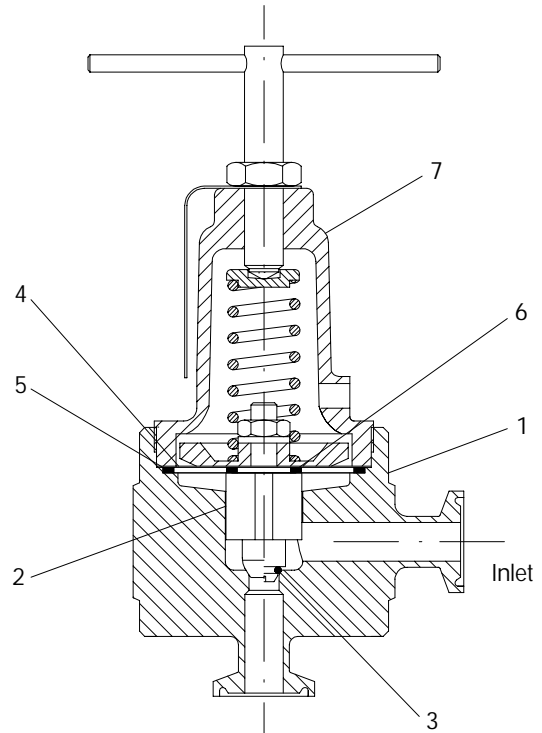
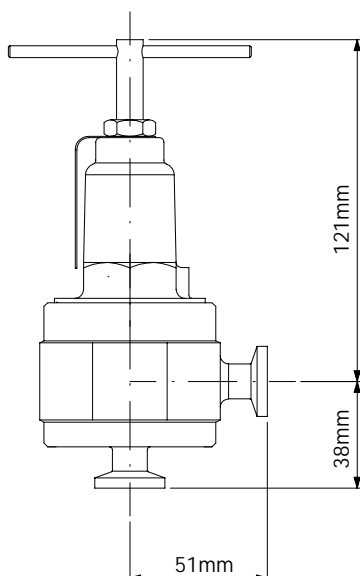
For steam duty, the valve is supplied with a metal seat seal and stainless steel diaphragm. For gas and liquid applications, an EPDM diaphragm and PTFE seat seal are typically specified.

Features offered by the Type 3171 include:

- Stainless steel construction - provides optimum corrosion resistance.
- Self acting design - eliminates need for sensor line or external power source.
- Wide range of spring options - allows valve specification to be matched to system requirements.

### Product specification

Size	1/2"
Connections	Tri-Clamp® compatible
Maximum kvs	0.26m <sup>3</sup> /h
Set ranges	0.34-2.1, 1.4-5.5, 4.8-9.6 & 9.0-13.8 barg
Maximum operating pressure	16.5 barg
Maximum operating temperature:	
With stainless steel diaphragm	-29°C to 205°C
With EPDM diaphragm	-29°C to 149°C
Valve weight	1.3 kg



### Materials of construction

1.	Lower body and seat	316L Stainless steel
2.	Piston	316L Stainless steel
3.	Soft seat seal*	PTFE/Silicone
4.	Diaphragm**	302 stainless steel or EPDM
5.	Body cap O-ring	PTFE/Silicone
6.	Diaphragm seal O-ring	PTFE/Silicone
7.	Upper body	316L Stainless steel

Full parts breakdown available upon request

\*Soft seat seal available with EPDM diaphragm only

\*\*Note - 302 material may not be compatible with all fluid mediums

### Surface finish

Wetted surfaces	0.5 microns Ra & electropolished
External body surfaces:	Machined/electropolished

### Sizing

Consult Staitech for product selection, confirming:

- Application & flow medium
- Flow medium inlet & outlet pressures
- Flow medium maximum & minimum flowrates