

Cryogenic Pressure Build Up Valve

Stainless Steel
 DN50 (2")

The Parker Bestobell pressure build up valve is designed to provide an 'easy adjust' pressure regulation function in one valve.

It is suitable for use on cryogenic static tanks and road trailers. The valve maintains a system pressure on a container or storage unit during transfer of gas from the trailer to a storage unit or vice versa, therefore optimising safety. As the pressure falls, the valve opens and allows liquid to pass into the vaporiser. The gas generated is returned to the vapour space at the top of the vessel.

It has high flow characteristics, enabling it to fill or empty the tank quickly.

All valves are degreased for oxygen duty, assembled in clean room conditions and pressure tested prior to dispatch.

Maximum Working Pressure (MWP)

Subject to end connections

Up to 50 bar (725 psi) at -196°C to +65°C

Features

- High flow characteristics for closer control of tank pressure
- Operates on liquid or gas to suit every installation
- Single adjustment for ease of tank setting
- Inlet strainer fitted as standard fitted as standard to all valves
- Removable cartridge internal system for ease of maintenance
- Available with a choice of springs to give optimum control in all applications

Technical

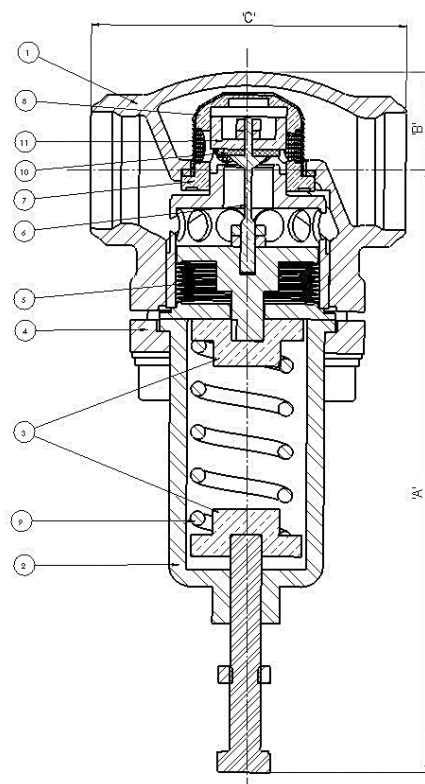
- Designed for use with: C, Ar, O₂, CO₂
- DN50 Flow data: Cv = 12.5 US GPM; Kv = 10.8 M³/hr
- Optional full material traceability backed by BS EN 10204 3.1/3.2 certification.



DN50 Cryogenic Stainless Steel
 Pressure Build Up Valve

Materials

	Stainless Steel
1. Body	Stainless Steel ASTM A351 CF3M
2. Spring Housing	HT Brass BS EN 12164 CW721R
3. Pressure Plates	HT Brass BS EN 12164 CW721R
4. Cover	Stainless Steel ASTM A351 CF8M
5. Bellows	Stainless Steel
6. Stem	Brass HT Brass BS EN 12164 CW721R
7. Piston Housing	Phosphor Bronze BS EN 12163 CW451K
8. Strainer	Stainless Steel 316
9. Spring	Stainless Steel 302
10. Seal	Virgin PTFE
11. Piston	HT Brass BS EN 12164 CW721R

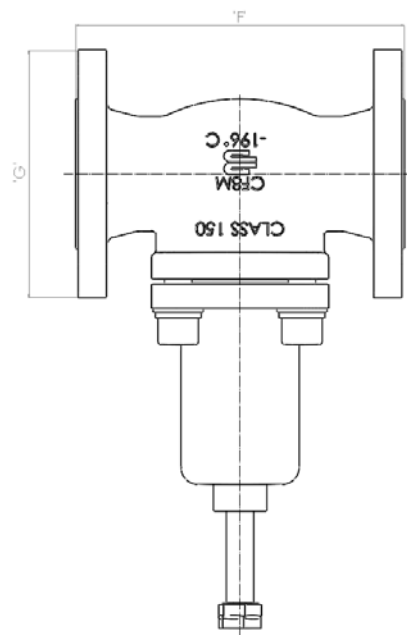


Specifications

Butt Weld Ends

Size	Unit	DN50 2"
A	mm	243
B	mm	48
C	mm	146
Weight	kg	9

Size	Spring Adjustment Range
DN50	22-130 psi (1.5-9 bar)



Flanged Ends (Class 150)

Size	Unit	DN50 2"
F	mm	203
G	mm	152
Flange Thickness	mm	19
Weight	kg	14

Class 300 available on request

How to Order

Part Number	Valve Size Diameter Nominal (DN)	Connection Type	Pressure Range (psi)
CF80B1B17000	50	Butt Weld Schedule 10	22 - 130
CF80FAFA7000		Flange Class 150	
CF80FCFC7000		Flange Class 300	

Please contact us for other options.