

TECHNICAL DATA

Constant Volume Valve



Key features

- Constant volume valve is pneumatically actuated.
- Includes a return line connecting the inlet to a coaxial compensator.
- Needle displacement matched by an equal and opposite volume displacement on the compensator.
- Design ensures a constant volume is maintained.

Product overview: Constant Volume Valve

The constant volume valve is used in piston gauge crossfloats and other applications in which two high pressures need to be disconnected and reconnected with minimal perturbations on either side.

Specifications: Constant Volume Valve

| Constant Volume Valve General Specifications | |
|--|-----------|
| Port A connection: | DH200-2* |
| Port B connection: | DH200-2* |
| Drive air connection (to open valve): | -32 UNF F |
| Operating fluid: | Oil |

| | |
|--|----------------------|
| Maximum line pressure: | 200 MPa (30,000 psi) |
| Maximum differential pressure on Port A or Port B: | 200 MPa (30,000 psi) |
| Drive air pressure required to open valve: | |
| With zero differential: | <500 kPa (70 psi) |
| With 200 MPa differential, Port A: | <400 kPa (60 psi) |
| With 200 MPa differential, Port B: | 750 kPa (110 psi) |
| Maximum drive air pressure: | 850 kPa (125 psi) |
| Typical change in volume on port A or B when the valve is opened or closed: | <0.2 mm |

* DH200-2 is equivalent to HIP HF2 for 1/8 in. OD, coned and threaded stainless steel tube.

Ordering information



Constant Volume Valve

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