

Diaphragm Valves

The 533 Series Diaphragm Valves are ideal for use as the primary flow switch in high purity or corrosive gas systems. Springless design and low wetted surface area combine to minimize particle generation and the completely swept path minimizes entrapment.

The unique design of the 533 Series allows low torque operation with gas flow in either direction. Flow control is accomplished with the multi-turn model while the ¼ turn model is quick acting and indicates on/off position.



Materials and Specifications

- *Maximum Inlet Pressure*
3,500 PSIG (240 BAR)
- *Temperature Range*
-40°F to 140°F (-40°C to 60°C)
- *Helium Leak Integrity*
1 x 10⁻⁹ scc/sec
- *Bodies and Fittings*
Brass barstock
- *Diaphragms*
Elgiloy®
- *Seats*
PCTFE
- *Seals*
Metal to metal
- *Cv*
0.17
- *Weight*
0.66 lbs. (0.3 kg)

Ordering Information

533-3	B	C	D
	Flow Control 0: Multi-Turn 1: ¼ Turn	Material 2: Brass	Connection 0: ¼" FPT x ¼" FPT 2: ¼" Tube x ¼" Tube 3: ¼" MPT (Extended Leg) x ¼" Tube 4: ¼" MPT x ¼" MPT 7: ¼" MPT x 6mm Tube 8: ¼" MPT (Extended Leg) x 1/8" Tube 9: ¼" MPT (Extended Leg) x ¼" FPT

For example, a 533-3120 is a bare body, brass diaphragm valve controlled by a ¼ turn handle.

Relief Valves

The 9400 Series Gas Phase Relief Valves offer excellent discharge capacity and field adjustability. The captive seat design minimizes the wetted surface area reducing possible contamination. The unique design also provides an accurate cracking pressure with zero leakage up to 98% of the nominal set pressure. Models 2039 and 2040 are designed for cryogenic on-line application and offer gooseneck design that enable a safe discharge.



Specifications

- 580-2039 and 580-2040 *Temperature Range*
-450°F to 1500°F
- 830-9412, 830-9413, and 830-9414
Temperature Range
Viton® Seat - 20°F to 400°F
Neoprene - 40°F to 300°F
Maximum Pressure - 3700 PSI

Ordering Information

Part Number	Description	Connections	Material
830-9412	Preset at 220 PSIG: (range 130 - 310 PSIG)	½" MPT x ½" FPT	Brass Body, Viton® Seat
830-9413	Preset at 420 PSIG: (range 260 - 600 PSIG)	½" MPT x ½" FPT	Brass Body, Viton® Seat
830-9414	Preset at 100 PSIG: (range 80 - 120 PSIG)	¼" MPT x ½" FPT	Brass Body, Neoprene Seat
830-9415	Preset at 20 PSIG: (range 8 - 34 PSIG)	½" MPT x ½" FPT	Brass Body, Neoprene Seat
580-2039	750 PSIG Cryogenic Relief	Male x Female CGA 440 (Flare)	Stainless Steel
580-2040	750 PSIG Cryogenic Relief	Male x Female CGA 295 (½ Flare)	Stainless Steel

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