

Purge Valves

The 502 Series Purges are designed for use with Laser purity gases to ensure system integrity during the breakdown of components or during gas source changes. By preventing the release of gases into the workplace and by preventing air from infiltrating high purity systems, purges insure safety and gas quality.

The Tee Purge, installed at a regulator inlet connection, is an effective method for purging a regulator and the downstream system.

The Straight Purge, best suited to pressure cycle or dilution purging, connects to a regulator body through an auxiliary high pressure port. The purged gas is vented through the regulator body to a safe location downstream.



Materials and Specifications

- *Seat*
Kel-F®
- *Diaphragms (Purge & Center Valves)*
Elgiloy
- *Spring & Stem*
304 Stainless steel
- *Cv*
0.27
- *Maximum Pressure*
3000 PSIG (210 BAR)

Ordering Information

Part Number	Material	Purge Type	Weight
502-1002	Brass Barstock	Straight Purge	1.2 lbs. (0.54 kg)
502-2003-CGA	Brass Barstock	Tee Purge	2.5 lbs. (1.12 kg)
502-2010	Brass Barstock	Right Manifold Tee Purge	
502-2011	Brass Barstock	Left Manifold Tee Purge	

Diaphragm Valves

The 533 Series diaphragm valves are ideal for use as the primary flow control 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*
3500 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*
Kel-F®
- *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 8: ¼" MPT (Extended Leg) x ⅛" 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.