

502 Series Purge Assemblies



The 502 Series purges are designed for use with high purity gases to ensure system integrity during breakdown of components or during gas source changes.

Purges provide safety by preventing the release of toxic or corrosive gases into the workplace when changing cylinders, corrosion resistance by preventing corrosive or halogen gases from coming into contact with atmospheric moisture, and purity by preventing air from infiltrating high purity systems at the time of cylinder change.

Straight Purge

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



Materials and Specifications

Seat: PCTFE

Diaphragms (Purge Valves): Elgiloy®

Diaphragms (Center Valves): 316L stainless steel

Seals: Metal to metal

C_v: 0.17

Maximum Pressure: 3000 psig (210 bar)

Deep Purge

The Deep Purge is Air Liquide's most effective purge device. It incorporates a unique snorkel tube design which forces the purge gas all the way back through the inlet connection to the cylinder valve cavity assuring virtual zero dead space purging. The Deep Purge may be used to purge the entire regulator body or just the cylinder connection at the time of cylinder change. The Deep Purge performs a positive displacement purge of the system.



Materials and Specifications

Seat: PCTFE

Diaphragms (Purge Valves): Elgiloy®

Diaphragms (Center Valves): 316L stainless steel

Seals: Metal to metal

C_v: 0.17

Maximum Pressure: 3000 psig (210 bar)

Tee Purge

The Tee Purge, while more economical than the Deep Purge, is quite effective in purging the regulator cavity and downstream system. Air Liquide recommends that a block and bleed system be installed downstream from the regulator to direct the vented gases to a safe location. This type of purge is best suited to pressure cycle or dilution purging.



Materials and Specifications

Seat: PCTFE

Diaphragms (Purge Valves): Elgiloy®

Diaphragms (Center Valves): 316L stainless steel

Seals: Metal to metal

C_v: 0.17

Maximum Pressure: 3000 psig (210 bar)