

586 SERIES EMERGENCY SHUT-OFF VALVES



The 586 Series Emergency Shut Off Valve kits are ideal for use as safety devices in high purity, flammable, toxic, or corrosive gas systems where fail-safe shutdown of gas supply and flow is required. The pneumatically-actuated packless diaphragm valves feature long life Egiloy® diaphragms, metal to metal seals, and nickel-plated aluminum actuators. Designed for out of the box control by the CONCOA 585 Emergency Shut Off Controller, these normally closed valves can be integrated into any CONCOA gas delivery system to provide instantaneous shut off. The single valve kit comes with one valve, hose barb connections, and tubing to support a single gas source such as a regulator. The dual valve kit is supplied with two valves, hose barbs, hose barb tee, and tubing to control both headers on a switchover from a single pneumatic source.



533 5008, 533 7008 shown

Typical Applications

- Industrial Gas Shutdowns
- Integration with ESO Shutdown Controllers
- Flammable, Toxic, or Hazardous Gas Shutdown Activation
- Gas Chromatography Mass Spectroscopy using Flame Ionization Detectors (GC-FID-MS) and Hydrogen

Features

Metal-to-metal Seals prevent gas contamination

Egiloy® Diaphragms support long life and high performance

Pneumatically-actuated Design ensures responsiveness and high durability

Materials and Specifications

Max Inlet Pressure: 3500 PSIG (240 BAR)

Body: 316L stainless steel

Max Seat Leakage: 2×10^{-8} scc/sec helium

Helium Leak Integrity: 1×10^{-8} scc/sec

Actuator Housing: Nickel-plated aluminum

Actuation Pressure: 70 PSIG - 125 PSIG (5 BAR - 8 BAR) to open

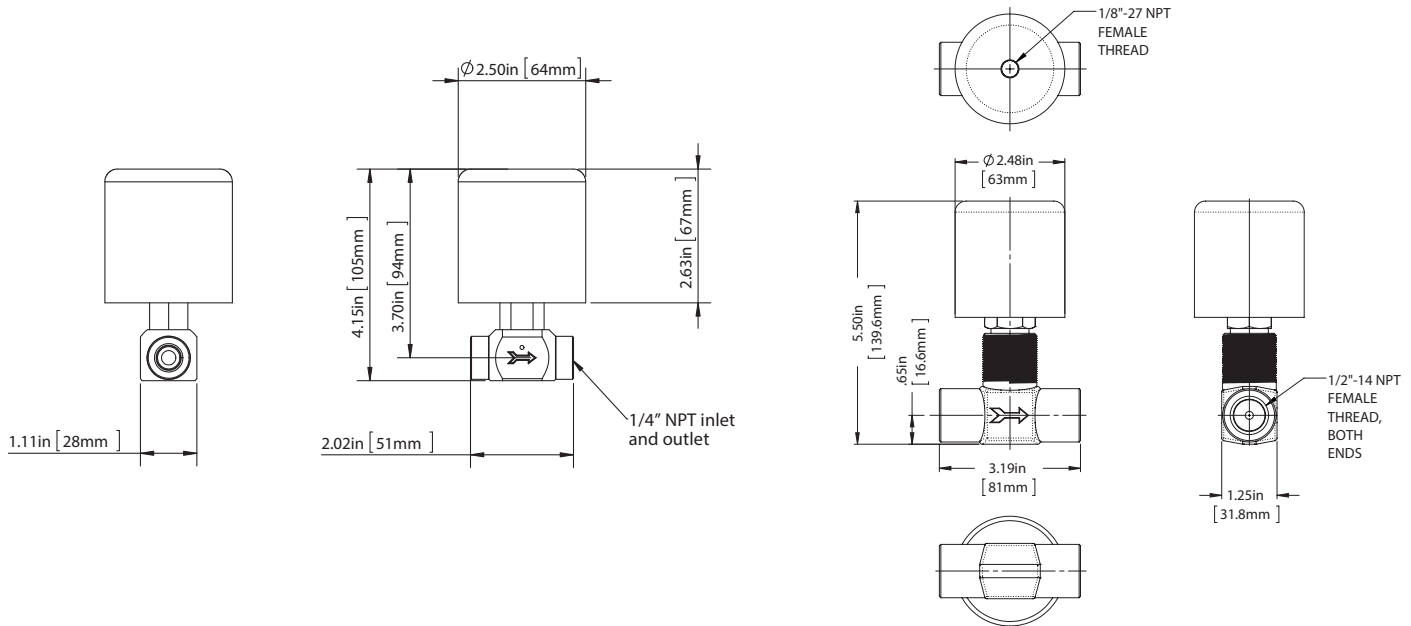
Enclosure: Polycarbonate resin (flame retardant and UV stabilized)

Temperature Range: -65°F to 150°F (-54°C to 66°C)

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Installation Dimensions



Ordering Information

Part No.	Description	Flow Coefficient	Max Inlet Pressure
533 5008	High Pressure Emergency Shut-Off Valve featuring 1/4" FNPT Process Ports and 1/8" FNPT Pneumatic Inlet	0.14 Cv	3500 PSIG (240 BAR)
533 7008	High Pressure Emergency Shut-Off Valve featuring 1/2" FNPT Process Ports and 1/8" FNPT Pneumatic Inlet	0.30 Cv	3500 PSIG (240 BAR)
533 H008	High- Flow Emergency Shut-Off Valve featuring 1/2" FNPT Process Ports and 1/8" FNPT Pneumatic Inlet	0.96 Cv	1000 PSIG (240 BAR)
586 1001	Single Valve Kit for 585 Series Emergency Shut-Off Controller featuring One 1/4" FNPT ESO Valve (5335008), One 1/4" MNPT Swivel Connector, 1/8" Hose Barb on Pneumatic Inlet (for connection to either side of the ESO valve), and Four Adhesive-backed Routing Clips	0.14 Cv	3500 PSIG (240 BAR)
586 1002	Dual Valve Kit for 585 Series Emergency Shut-Off Controller featuring Two 1/4" FNPT ESO Valves (5335008), Two 1/4" MNPT Swivel Connectors (for connection to either side of the ESO valve), 1/8" Hose Barbs on Pneumatic Inlet Ports, Tee with 42" Urethane Tubing, and Four Adhesive-backed Routing Clips	0.14 Cv	3500 PSIG (240 BAR)
586 2001	Single Valve Kit for 585 Series Emergency Shut-Off Controller featuring One 1/2" FNPT ESO Valve (5337008), 1/2" MNPT Swivel Connector, 1/8" Hose Barb on Pneumatic Inlet (for connection to either side of the ESO valve), and Four Adhesive-backed Routing Clips	0.30 Cv	3500 PSIG (240 BAR)
586 2002	Dual Valve Kit for 585 Series Emergency Shut-Off Controller featuring Two 1/2" FNPT ESO Valves (5337008), Two 1/2" MNPT Swivel Connectors (for connection to either side of the ESO valve), 1/8" Hose Barbs on Pneumatic Inlet Ports, Tee with 42" Urethane Tubing, and Four Adhesive-backed Routing Clips	0.30 Cv	3500 PSIG (240 BAR)
586 3001	High Flow Single Valve Kit featuring One 1/2" FNPT ESO Valve (533H008), 1/2" MNPT Swivel Connector, 1/8" Hose Barb on Pneumatic Inlet (for connection to either side of the ESO valve), and Four Adhesive-backed Routing Clips	0.96 Cv	3500 PSIG (240 BAR)
586 3002	High Flow Dual Valve Kit featuring Two 1/2" FNPT ESO Valves (533H008), Two 1/2" MNPT Swivel Connectors, 1/8" Hose Barb on Pneumatic Inlets (for connection to either side of the ESO valve), Tee with 42" Urethane Tubing, and Four Adhesive-backed Routing Clips	0.96 Cv	1000 PSIG (240 BAR)