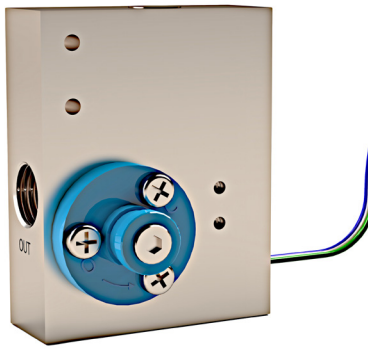
580 Series Excess Flow Switch

The 580 Series Excess Flow Switches are designed to precisely detect increasing or decreasing gas flow rate. When integrated with external devices such as the CONCOA 585 Series Emergency Shut-Off Controller, they ensure immediate shutdown of any gas line in the event of a pipeline break or abnormal flow condition. All wetted parts are 316 stainless steel for compatibility with any gas service. They are explosion proof, compact, field adjustable and linear with a wide range of flows and inlet pressures to suit any installation where excess flow shutdown is required.



580 4001 shown

Typical Applications

- Bulk Specialty Gas Systems
- Gas Chromatography Systems
- Environmental Testing Facilities
- Biotechnology and Pharmaceutical Labs
- Semiconductor Manufacturing Processes
- Chemical Manufacturing/Research Facilities

Features

Close On-Off Differential optimizes system performance
All-wetted, Stainless Steel Parts permit compatibility with any gas service
High Resolution ensures accurate detection and response to flow variations
Broad Range of Adjustability adapts to any application requiring excess flow shutdown
Switch Contact Output enables integration to central control system or programmable logic controller (PLC) for automated responses

Materials and Specifications

Max Inlet Pressure: 3000 PSIG (207 BAR)
Body: 316 stainless steel
Inlet/Outlet Ports: 1/4 in FNPT
Seals: FKM
Repeatability: ±2%
Max Switching Voltage: 175 VDC / 120 VAC
Gas Service: Flammable and toxic
Operating Temperature: 0°F to 220°F (-17°C to 104°C)
Weight: 1 lb (0.45 kg)
Conformances: CE marked

Ordering Information

Part No.	Description	Seat	Flow Range
580 4001	High Pressure, Low Flow Excess Flow Switch	FFKM	0.1 to 20 LPM (0.21 SCFH to 42.4 SCFH)
580 4002	High Pressure, High Flow Excess Flow Switch	FFKM	0.2 to 60 LPM (0.42 SCFH to 127 SCFH)
580 4004	High Pressure, Low Flow Excess Flow Switch	FKM	0.1 to 20 LPM (0.21 SCFH to 42.4 SCFH)
580 4005	High Pressure, High Flow Excess Flow Switch	FKM	0.2 to 60 LPM (0.42 SCFH to 127 SCFH)

580 Series Excess Flow Switch

The 580 Series Excess Flow Switches are designed to precisely detect increasing or decreasing flow rate of gases in critical processes. When integrated with external devices such as the CONCOA 585 Series Emergency Shut-Off Controller, they ensure immediate shutdown of any gas line in the event of a pipeline break or abnormal flow condition. CONCOA 580 Series excess flow switches are explosion proof, compact, and field adjustable with a wide range of flows and inlet pressures to suit any installation where excess flow shutdown is required.

580 4006 shown

Typical Applications

- Medical Gas Systems
- Laboratories and Research Facilities
- Chemical Manufacturing
- Semiconductor Industries
- Fuel Gas Systems
- Semiconductor Manufacturing Processes
- Chemical Manufacturing/Research Facilities

Features

All-wetted, Stainless Steel Parts permit compatibility with any gas service

FFKM Seat Material offers superior chemical resistance and thermal stability

Range of Flows and Inlet Pressures facilitate any installation requiring excess flow shutdown

Field Adjustable Poppet allows for precise setting

Compact Construction enables high density system packaging

Optional Explosion-proof Cap increases safety in hazardous environments (model 5804007 only)

Materials and Specifications

Body: 316 stainless steel

Inlet/Outlet Connections: 1/4 in FNPT

Seat: FFKM

Max Switching Voltage: 100 VDC / 120 VAC

Temperature: 30˚F to 220°F (-1°C to 104°C)

Internal Filter: 40-micron

Weight: 0.5 lb (0.25 kg)

Conformances: CE marked

Ordering Information

Part No.	Description	Max Inlet	Flow Range
580 4006	High Pressure, Low Flow Excess Flow Switch for flammable and toxic gas service	3000 PSIG (210 BAR)	.03 to 10 LPM (.06 SCFH to 21 SCFH)
580 4007	Low Pressure, High Flow Excess Flow Switch for oxygen, flammable, and toxic gas service	1000 PSIG (70 BAR)	1 to 120 LPM (2 SCFH to 254 SCFH)
580 4008	High Pressure, High Flow Excess Flow Switch for flammable, and toxic gas service	3000 PSIG (210 BAR)	1 to 20 LPM (2 SCFH to 42 SCFH)