

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.

Typical Applications

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



580 4001 shown

Features

Close On-Off Differential optimizes system performance

FKM Seals provide wear resistance and longer service life

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 Working Pressure: 3000 PSIG (206 BAR)

Body: 316 stainless steel

Inlet/Outlet Ports: 1/4 in FNPT

Seals: FKM

Repeatability: $\pm 2\%$

Max Switching Voltage: 175 VDC / 120 VAC

Contact Rating: 50 W @ DC; 50 VA @ AC

Operating Temperature: 0°F to 220°F (-17°C to 104°C)

Weight: 1 lb (0.45 kg)

Conformances: CE marked

Ordering Information

Order 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. CONCO 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.

Typical Applications

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



580 4006 shown

Features

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

FFKM Seat Material offers superior chemical resistance and thermal stability

Range of Inlet Pressure and Flow facilitates any installation requiring excess flow shutdown

Field Adjustable Poppet allows for precise setting

Compact Construction enables high density system packaging

Optional Mounting Bracket ensures proper alignment of the excess flow switch

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

Power: 3.30 VA max @100 VDC; 2.46 VA max @120 VAC

Gas Service: Oxygen, flammable, and toxic

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

Order No.	Description	Max Inlet	Flow Range
580 4006	High Pressure, Low Flow Excess Flow Switch	3000 PSIG (210 BAR)	0.03 to 10 LPM (0.06 SCFH to 21.2 SCFH)
580 4007	Low Pressure, High Flow Excess Flow Switch	1000 PSIG (70 BAR)	1 to 120 LPM (2 SCFH to 254 SCFH)
580 4008	High Pressure, High Flow Excess Flow Switch	3000 PSIG (210 BAR)	1 to 20 LPM (2.12 SCFH to 42.38 SCFH)