CONCOA
PRECISION GAS CONTROLS

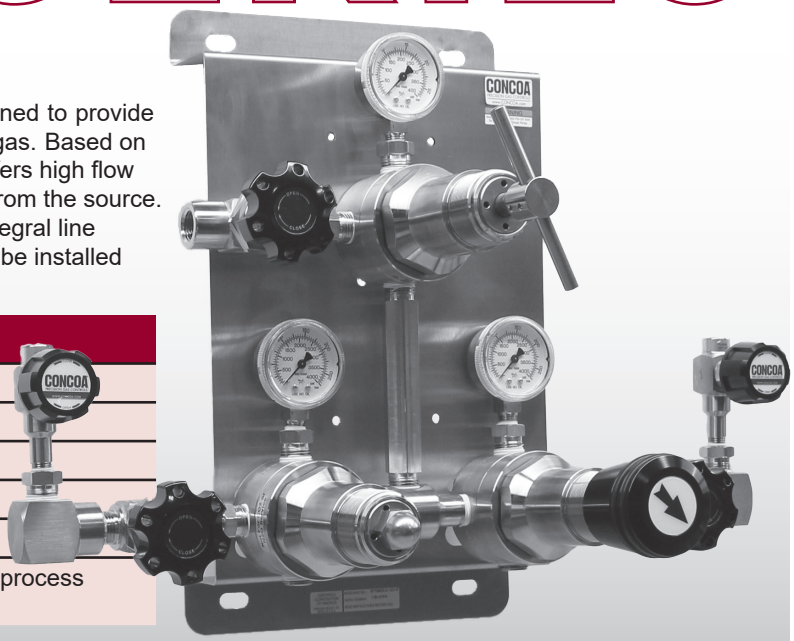
677 SERIES

High Flow Switchover

The 677 Series automatic switchover system is designed to provide a continuous high flow of high purity, non-corrosive gas. Based on the technology of the 67S regulator, the switchover offers high flow with relatively low static, ensuring optimal gas usage from the source. If constant regulated outlet pressure is needed, the integral line regulator option is required, or a regulator will need to be installed downstream after the switchover system.

Typical Applications

- Ultra-high purity gases
- Gas chromatograph carrier and support gases
- AA grade acetylene
- Cell culture incubator Carbon Dioxide and Nitrogen
- Pure and mixed process gases
- Central gas supply system for laboratory, research or process plants



677 39E2-01-001R shown
Available with optional remote alarm.

Features

67S Series Brass Barstock Regulators
Low static design

User-Friendly
One knob switches cylinder priority

Compatible with Maniflex Manifolds
Multiple cylinders per side

Optional Line Regulator
Stable line pressure during change over

Optional Remote Alarm
Easy integration with Altos system
CE marked universal voltage alarm

Optional Purge Valves
Allows purging after cylinder change over

Optional Outlet Valve
Allows isolation of pipeline

Materials

Bodies
316L stainless steel barstock

Seats
FKM or EPDM

Filters
40 micron 316L stainless steel

Internal Seals
FKM and PTFE

Specifications

Maximum Inlet Pressure
3000 PSIG (210 BAR)

Temperature Range
-40°F to 140°F (-40°C to 60°C)

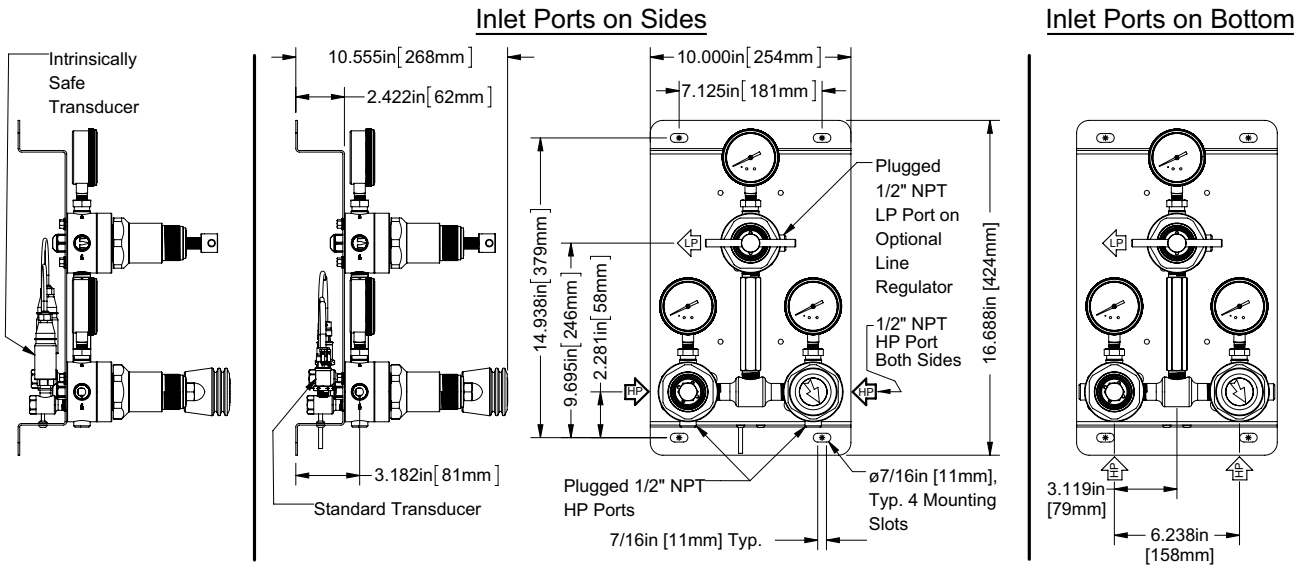
Gauges
2" (50mm) diameter stainless steel

Outlet Connection
1/2" MPT (without line regulator)
1/2" FPT (with line regulator or outlet valve)

Transducers
0-6000 PSIG (4-20 mA output)
Optional intrinsically safe models

Cv
2.3

Weight
37 lbs. (16.8 kgs) (as shown)



Ordering Information

677	A	B	C	D	-CON	Optional
Series 677	Nominal Switchover Pressure	Inlet Connection	Line Regulator	Assembly	Hose	
	3: 305 PSIG (21 BAR)	**0:** Open 1/2" NPT ports with bottom inlets; no inlet valves and no purge valves	**0:** No line regulator or outlet valve	**1:** 0-4000 PSIG/0-28,000 kPa gauges no alarm capability	**-001:** FPT Port	**R:** Not for CO_2 or N_2O gas service
	4: 430 PSIG (30 BAR)	**1:** Open 1/2" NPT ports with side inlets; no inlet valves and no purge valves	**1:** 0-125 PSIG (0-9 BAR) line regulator; no outlet valve	**2:** 0-4000 PSIG/0-275 BAR gauges no alarm capability		**C:** For CO_2 or N_2O gas service
	7: 680 PSIG (47 BAR)	**2:** Bottom inlets; high flow inlet valves and no purge valves	**2:** 0-250 PSIG (0-17 BAR) line regulator; no outlet valve	**G:** 0-4000 PSIG/0-280 BAR gauges* with Altos 2 alarm and standard transducers (not intrinsically safe)		
		3: Side inlets; high flow inlet valves and no purge valves	**3:** 0-500 PSIG (0-34 BAR) line regulator; no outlet valve	**J:** 0-4000 PSIG/0-280 BAR gauges* with standard transducers (not intrinsically safe) - alarm not included		
		4: Bottom inlets; high flow inlet valves and purge valves	**6:** No line regulator; high flow outlet valve	**L:** 0-4000 PSIG/0-280 BAR gauges* with Altos 2 alarm and intrinsically safe transducers and barriers		
		5: Side inlets; high flow inlet valves and purge valves	**7:** 0-125 PSIG (0-9 BAR) line regulator; high flow outlet valve	**N:** 0-4000 PSIG/0-280 BAR gauges* with intrinsically safe transducers and barriers - alarm not included *Note: Intrinsically safe transducers and barriers are required for flammable gas service or for use in hazardous environments.*		
		6: Bottom inlets; standard diaphragm valves and no purge valves	**8:** 0-250 PSIG (0-17 BAR) line regulator; high flow outlet valve			
		7: Side inlets; standard diaphragm valves and no purge valves	**9:** 0-500 PSIG (0-34 BAR) line regulator; high flow outlet valve			
		8: Bottom inlets; standard diaphragm valves and purge valves	**C:** No line regulator, standard diaphragm valve			
		9: Side inlets; standard diaphragm valves and purge valves	**D:** 0-125 PSIG (0-9 BAR) line regulator; standard diaphragm valve			
			E: 0-250 PSIG (0-17 BAR) line regulator; standard diaphragm valve			
			F: 0-500 PSIG (0-34 BAR) line regulator; standard diaphragm valve			