527 Series Switchover

The 527 Series Switchover is a stainless steel, pressure differential manifold designed to automatically switch from the primary side to the reserve side to deliver a continuous supply of ultra-high purity or corrosive gas. The 527 manifold switchover comes with either flexible hoses for use with one cylinder per side, or manifold connectors for use with the CONCOA 52 Series Maniflex Manifold System to increase storage capacity. The 527 may be purchased with or without a variety of options, such as diaphragm valves, manifold connectors, mini-manifold connectors, flexible pigtails, or with open inlet ports. Due to pressure differential considerations, an integral line regulator is available to maintain constant downstream pressure. Optional Altos 2™ remote alarm capability provides audible and visual warnings that a switchover is about to occur.



5275071-01-001 shown

Typical Applications

- Gas Chromatograph Carrier and Support Gases
- Ultra-High Purity and Research Grade Gases
- Pure and Mixed Process Gases
- Corrosive Gases
- Gas Chromatograph Carrier and Support Gases

Features

400 Series Brass Regulators with CAPSULE® Seat Design provide 360° filtration

Metal-to-metal Diaphragm Seal prevents gas contamination

Single Knob Priority Valve permits easy switch of cylinder priority

Purge Valve enables purging after cylinder changeover

Optional Altos 2™ Remote Alarm delivers audible and visible alert before switchover occurs

Optional Line Regulator maintains stable pressure during a changeover

Check Valve in Optional Regulator Hose Inlet Gland prohibits contamination and backflow

Materials and Specifications

Max Inlet Pressure: 3000 PSIG (210 BAR); 4500 PSIG (310 BAR) optional

Outlet Connections: 1/4" MNPT (without line regulator); 1/4" FNPT (with line regulator)

Regulator Bodies: 316L Stainless steel

Gauges: 2" (50 mm) Diameter stainless steel

Diaphragms: 316L Stainless steel

Seats: PTFE (line regulators); PCTFE (inlet regulators)

Filters: 10-micron 316 stainless mesh

Internal Seals: PTFE

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

Cv: 0.1

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

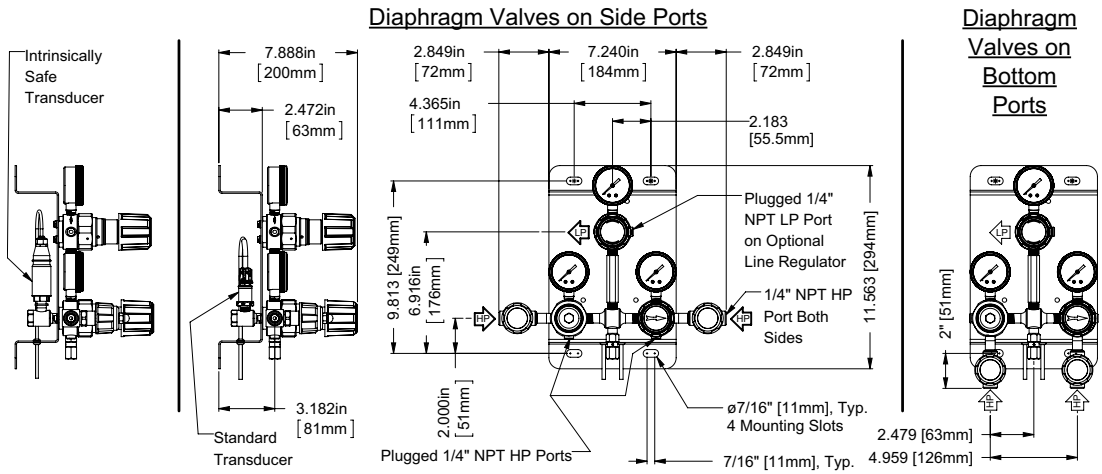
Standard Transducers (optional): 0-6000 PSIG (4-20 mA output)

Intrinsically Safe Transducers (optional): 0-5000 PSIG (4-20 mA output)

Conformances: Cleanliness meets or exceeds CGA G-4.1; PED 2014/68/EU; ANSI/ASME B40.1; CRN OH5216.5; CRN OH15806.5

527 Series Switchover

Installation Dimensions



Ordering Information

527	A	B	C	D	-CON	Optional
Series 527	Switching Pressure (Priority R/L)	Inlet Connection	Line Regulator	Assembly	Hose	
	1: 125/105 PSIG* (8.4/7.1 BAR)	**0:** 1/4" FNPT ports	**0:** None	**1:** 0-4000 PSIG/0-28,000 kPa gauges no alarm capability*	*Please specify inlet connection (if applicable)* *CGA DIN 477 BS 341 and others available.*	**A:** Outlet valve
	2: 70/50 PSIG* (4.8/3.5 BAR)	**1:** 36" (900mm) stainless steel flexible hoses	**1:** 0-15 PSIG (0-1 BAR)	**2:** 0-4000 PSIG/0-275 BAR gauges no alarm capability*		**B:** Outlet valve and purge valve
	3: 100/75 PSIG (6.8/5.1 BAR)	**2:** Manifold connectors*	**2:** 0-50 PSIG (0-3.5 BAR)	**5:** 0-600 PSIG/0-40 BAR gauges no alarm capability		**C:** Outlet valve and stainless steel bonnets
	4: 200/170 PSIG (13.5/11.5 BAR)	**3:** 24" (600mm) stainless steel flexible hoses	**3:** 0-100 PSIG (0-7 BAR)	**8:** 0-4000 PSIG/0-275 BAR gauges* with pressure switches and without remote alarm		**D:** Outlet valve, purge valve, and stainless steel bonnets
	5: 500/470 PSIG (33.8/31.8 BAR)	**4:** Diaphragm valves with 1/4" FNPT port	**4:** 0-250 PSIG (0-17 BAR)	**9:** 0-600 PSIG/0-40 BAR gauges with pressure switches and without remote alarm		**S:** stainless steel bonnets
	7: 150/130 PSIG (10.1/8.8 BAR)	**5:** Diaphragm valves with 36" (900mm) hoses	**5:** 0-400 PSIG (0-27 BAR)	**G:** 0-4000 PSIG/0-280 BAR gauges* w/ Altos 2 alarm and standard transducers (not intrinsically safe)		**V:** Purge valves
	8: 300/270 PSIG (20.3/22.3 BAR)	**6:** Diaphragm valves with manifold connectors*	**7:** 0-150 PSIG (0-10 BAR)	**H:** 0-600 PSIG/0-42 BAR gauges w/ Altos 2 alarm and standard transducers (not intrinsically safe)		**W.** stainless steel bonnets and purge valve
	Not available with 4500 PSIG (310 BAR) inlet.* ***Note: Switching pressure must be higher than line regulator pressure selected in column C.*	**7:** Diaphragm valves with 24" (600mm) hoses		**J:** 0-4000 PSIG/0-280 BAR gauges* with standard transducers (not intrinsically safe), alarm not included		
		8: 36" (900mm) stainless steel flexible hoses and 4500 PSIG (310 BAR) maximum inlet pressure		**K:** 0-600 PSIG/0-42 BAR gauges with standard transducers (not intrinsically safe), alarm not included		
		9: 1/4" FNPT ports and 4500 PSIG (310 BAR) maximum inlet pressure		**L:** 0-4000 PSIG/0-280 BAR gauges* with Altos 2 alarm and intrinsically safe transducers and barriers		
		C: Compact manifold connectors*		**M:** 0-600 PSIG/0-42 BAR gauges with Altos 2 alarm and intrinsically safe transducers and barriers		
		D: Diaphragm valves with compact manifold connectors*		**N:** 0-4000 PSIG/0-280 BAR gauges* with intrinsically safe transducers and barriers, alarm not included		
		**See 52 Series Maniflex Manifold for ordering information.*		**P:** 0-600 PSIG/0-42 BAR gauges with intrinsically safe transducers and barriers, alarm not included		
				If 4500 psi model (B=8 or 9) is selected then the 4000 PSIG/280 BAR becomes 0-6000 PSIG/0-400 BAR.* ***Note: Intrinsically safe transducers and barriers are required for flammable gas service or for use in hazardous environments.*		