



# Pressure Differential Switchovers

# 527 SERIES

## Switchover

The 527 Series Switchover is an automatic switchover system designed to supply a continuous supply of high purity or corrosive gas. The system comes with either flexible hoses for use with two cylinders or manifold connectors for use with the Maniflex Modular Manifold System. Due to pressure differential considerations, an integral line regulator is available to maintain constant downstream pressure.

### Typical Applications

- Ultra high purity gases
- Research grade pure gases
- Gas chromatograph carrier and support gases
- Pure and mixed process gases
- Corrosive gases
- Ammonia
- Hydrogen Sulfide



527 411G shown with attached flexible hoses. Available with optional remote alarm.

### Features

- 400 Series Stainless Steel Regulators**  
CAPSULE® seat
- Metal-to-Metal Diaphragm Seal**  
No possibility of gas contamination
- User-Friendly Priority Valve**  
One knob switches cylinder priority
- Check Valves in Inlet Gland**  
Prevents contamination and back flow
- 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
- Diaphragms**  
316L stainless steel
- Seats**  
PTFE (line regulators)  
PTFE with 3000 PSIG (240 Bar) (inlet regulators)  
PCTFE with 4500 PSIG (310 BAR) (inlet regulators)
- Filters**  
Patented 10 micron 316 mesh
- Internal Seals**  
PTFE

### Specifications

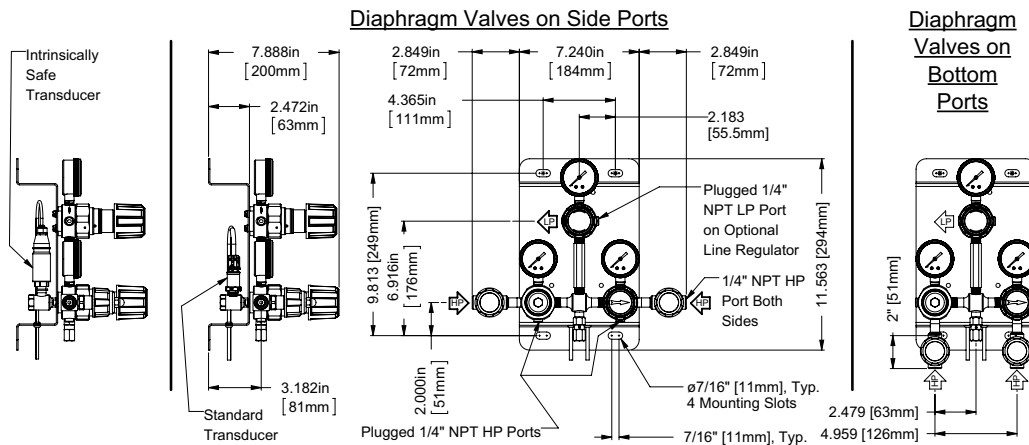
- Maximum Inlet Pressure**  
3000 PSIG (210 BAR)  
4500 PSIG (310 BAR) optional
- Temperature Range**  
-40°F to 140°F (-40°C to 60°C)
- Gauges**  
2" (53mm) diameter stainless steel
- Transducers**  
0-6000 PSIG (4-20 mA output)  
Optional intrinsically safe models
- Outlet Connection**  
1/4" MPT (without line regulator)  
1/4" FPT (with line regulator)
- Helium Leak Integrity**  
1 x 10<sup>-8</sup> scc/sec
- Cv**  
0.1
- Weight**  
8.25 lbs. (3.71 kg)

CRN 0H15806.5

# Pressure Differential Switchovers



## Installation Information



## Ordering Information

527	A	B	C	D	-CON	Options
Series 527	Switching Pressure (Priority R/L)	Inlet Connection	Line Regulator	Assembly	Hose	
	<b>1:</b> 125/105 PSIG (8.4/7.1 BAR)*	<b>0:</b> 1/4" FPT ports	<b>0:</b> None	<b>1:</b> 0-4000 PSIG/0-28,000 kPa gauges no alarm capability*	Please specify inlet connection (if applicable)	<b>A:</b> Outlet valve
	<b>2:</b> 70/50 PSIG (4.8/3.5 BAR)*	<b>1:</b> 36" (900mm) stainless steel flexible hoses	<b>1:</b> 0-15 PSIG (0-1 BAR)	<b>2:</b> 0-4000 PSIG/0-275 BAR gauges no alarm capability*		<b>B:</b> Outlet valve and purge valve
	<b>3:</b> 100/75 PSIG (6.8/5.1 BAR)	<b>2:</b> Manifold connectors*	<b>2:</b> 0-50 PSIG (0-3.5 BAR)	<b>5:</b> 0-600 PSIG/0-40 BAR gauges no alarm capability	CGA DIN 477 BS 341 and others available	<b>C:</b> Outlet valve and stainless steel bonnets
	<b>4:</b> 200/170 PSIG (13.5/11.5 BAR)	<b>3:</b> 24" (600mm) stainless steel flexible hoses	<b>3:</b> 0-100 PSIG (0-7 BAR)	<b>8:</b> 0-4000 PSIG/0-275 BAR gauges* with pressure switches and without remote alarm		<b>D:</b> Outlet valve purge valve and stainless steel bonnets
	<b>5:</b> 500/470 PSIG (33.8/31.8 BAR)	<b>4:</b> Diaphragm valves with 1/4" FPT port	<b>4:</b> 0-250 PSIG (0-17 BAR)	<b>9:</b> 0-600 PSIG/0-40 BAR gauges with pressure switches and without remote alarm		<b>S:</b> Stainless steel bonnets
	<b>7:</b> 150/130 PSIG (10.1/130 BAR)	<b>5:</b> Diaphragm valves with 36" (900mm) hoses	<b>5:</b> 0-400 PSIG (0-27 BAR)	<b>G:</b> 0-4000 PSIG/0-280 BAR gauges* with Altos 2 alarm and standard transducers (not intrinsically safe)		<b>V:</b> Purge valves
	<b>8:</b> 300/270 PSIG (20.3/22.3 BAR)	<b>6:</b> Diaphragm valves with manifold connectors*	<b>7:</b> 0-150 PSIG (0-10 BAR)	<b>H:</b> 0-600 PSIG/0-42 BAR gauges with Altos 2 alarm and standard transducers (not intrinsically safe)		<b>W:</b> Stainless steel bonnets and purge valve
	<i>*Not available with 4500 PSIG (310 BAR) inlet</i>	<b>7:</b> Diaphragm valves with 24" (600mm) hoses		<b>J:</b> 0-4000 PSIG/0-280 BAR gauges* with standard transducers (not intrinsically safe) - alarm not included		
	<i>NOTE: Switching pressure must be higher than line regulator pressure selected in column C.</i>	<b>8:</b> 36" (900mm) stainless steel flexible hoses and 4500 PSIG (310 BAR) maximum inlet pressure		<b>K:</b> 0-600 PSIG/0-42 BAR gauges with standard transducers (not intrinsically safe) - alarm not included		
		<b>9:</b> 1/4" FPT ports and 4500 PSIG (310 BAR) maximum inlet pressure		<b>L:</b> 0-4000 PSIG/0-280 BAR gauges* with Altos 2 alarm and intrinsically safe transducers and barriers		
		<b>C:</b> Compact manifold connectors*		<b>M:</b> 0-600 PSIG/0-42 BAR gauges with Altos 2 alarm and intrinsically safe transducers and barriers		
		<b>D:</b> Diaphragm valves with compact manifold connectors*		<b>N:</b> 0-4000 PSIG/0-280 BAR gauges* with intrinsically safe transducers and barriers - alarm not included		
		<i>*See pages 70-71 for manifold ordering information</i>		<b>P:</b> 0-600 PSIG/0-42 BAR gauges with intrinsically safe transducers and barriers - alarm not included		
				<i>*If 4500 psi model (B=8 or 9) is selected then the 4000 PSIG/280 BAR becomes 0-6000 PSIG/0-400 BAR</i>		
				<i>Note: Intrinsically safe transducers and barriers are required for flammable gas service or for use in hazardous environments.</i>		

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