

547 SERIES SWITCHOVER



The 547 Series Switchover is an automatic switchover system ideal for use in fuel cell or combustion research, aerospace parts cycle testing, or process and pilot plant pneumatic control where an uninterrupted supply of high purity, non-oxidizing gas is required at high pressure. The system comes with options for multiple inlet configurations and can deliver substantial flow with stable line pressure up to 3500 PSIG (240 BAR). It is ideal for use with nitrogen, helium, argon, hydrogen, carbon monoxide, air, or methane where cylinder fill pressures can be as high as 6000 PSIG (415 BAR). The 547 Series features a unique "Switch Shift" adjustment knob on the lower outlet pressure range that allows the unit to be switched from delivering up to 800 PSIG line pressure to as low as 150 PSIG of line pressure to economize cylinder gas consumption.

Typical Applications

- High Delivery Pressure Gas Systems
- Aerospace Cycle Testing
- Component Helium Leak Testing
- Combustion Research Laboratories
- Synthetic Fuel Research and Process Plants
- High Pressure Hydrogen



Features

493 Series Stainless Steel Regulators control inlet pressures to 6000 PSIG (415 BAR)

CAPSULE® Seat Design provides maximum reliability and easy maintenance

Integral Line Regulator maintains stable line pressure up to 3500 PSIG (240 BAR) during changeover

Switch Shift Delivery Pressure Adjustment optimizes cylinder gas use

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

Materials and Specifications

Maximum Inlet Pressure: 3000 PSIG (210 BAR), 4500 PSIG (310 BAR); or 6000 PSIG (415 BAR) optional

Inlet Valves: 316L stainless steel diaphragm valves (If 5th digit = 1 max inlet pressure 3000 PSIG); or stainless steel needle valves (If 5th digit = 2 or 3 max inlet pressure 4500 or 6000 PSIG)

Regulator Bodies: 316L stainless steel barstock

Gauges: 2 1/2" (68 mm) diameter stainless steel

Cartridges: 316L stainless steel barstock

Seats: PCTFE; or Peek and PCTFE with 6000 PSIG (415 BAR) inlet option

Filters: 10-micron 316L stainless steel mesh

Internal Seals: FKM

Inlet Connections: 1/4" FNPT

Outlet Connections: 1/4" stainless steel compression tube fitting

Cv: 0.1

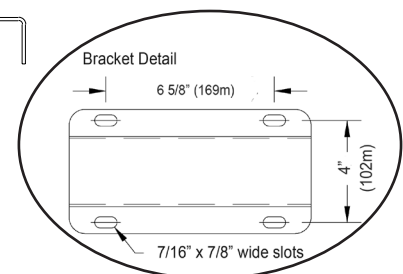
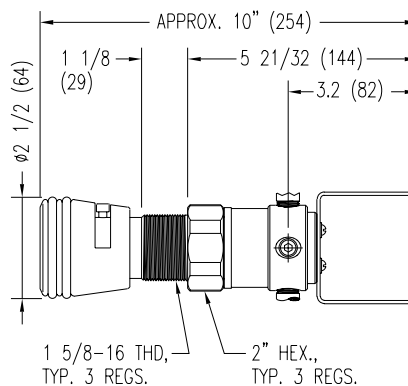
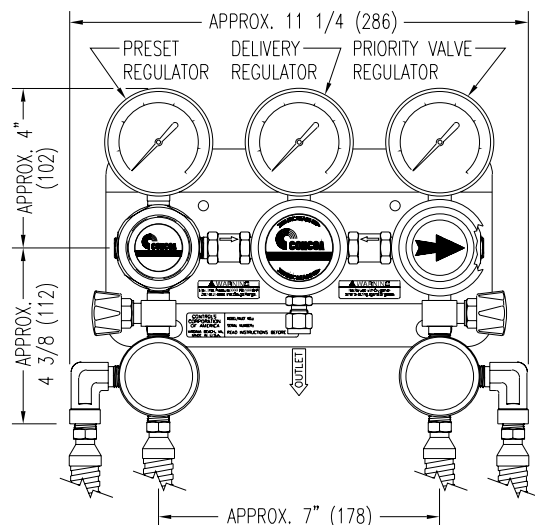
Temperature Range: -40°F to 140°F (-40°C to 60°C)

Conformances: Cleanliness meets or exceeds CGA G-4.1; ANSI/ASME B40.1; CRN OH5216; CRN OC1794

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Installation Dimensions



Ordering Information

547	A	B		C	D	-CON
Series 547	Delivery Pressure	Max Inlet Pressure	Inlet Gauges	Inlet Connection	Assembly/Gauges	Hose
	1: 150 - 200 PSIG. Field selectable 800 PSIG/150 PSIG (55 BAR/10 BAR)	1: 3000 PSIG (210 BAR)	4000 PSIG (275 BAR)	0: 1/4" FNPT port	1: PSIG/kPa gauges with no alarm capability	<i>Please specify inlet connection (if applicable).</i>
	2: 1500 PSIG (100 BAR)†	2: 4500 PSIG (310 BAR)	6000 PSIG/ (415 BAR)	1: Two inlet valves with two 36" (900mm) flexible hoses (one station per side)	2: PSIG/BAR gauges with no alarm capability	
	3: 2500 PSIG (170 BAR)†	3: 6000PSIG (415 BAR)*	10,000 PSIG/ (700 BAR)	2: Two inlet valves with four 36" (900mm) flexible hoses (two stations per side)	4: PSIG/BAR gauges with pressure switches and Altos 2 alarm	<i>CGA DIN 477 BS 341 and others available.</i>
	4: 3500 PSIG (240 BAR)††	<i>*Not for use with oxygen service.</i>		3: Manifold connectors 3000 PSIG (210 BAR) inlet only*	5: PSIG/BAR gauges with pressure switches, intrinsic safety barriers, and without alarm†	
	A: 800 PSIG. Field selectable 800 PSIG/150 PSIG (55 BAR/10 BAR)	<i>*See 52 Series Maniflex™ for manifold ordering information.</i>			6: PSIG/BAR gauges with pressure switches, intrinsic safety barriers, and Altos 2 alarm†	
	D: 3000 PSIG (210 BAR)†				8: PSIG/BAR gauges with pressure switches and without alarm	
	E: 1000 PSIG (70 BAR)				G: PSIG/BAR gauges with standard transducers (not intrinsically safe) and Altos 2 alarm	
					J: PSIG/BAR gauges with standard transducers (not intrinsically safe) and without alarm	
					L: PSIG/BAR gauges with intrinsically safe transducers and barriers and Altos 2 alarm†	
					N: PSIG/BAR gauges with intrinsically safe transducers and barriers and without alarm†	
<i>† Not valid with 5th = 1</i>						
<i>†† Not valid with 5th = 1 or 2</i>						

† Not valid with 5th = 1

†† Not valid with 5th = 1 or 2

†Intrinsic safety barriers are required for flammable gas service or for use in hazardous environments.