

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
- High Pressure Air Systems



Features

493 Series Stainless Steel Regulator controls 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

Regulator Bodies: 316L stainless steel barstock

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

Cartridges: 316L stainless steel barstock

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

Filters: 10-micron 316L stainless steel mesh

Internal Seals: FKM

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

Cv: 0.1

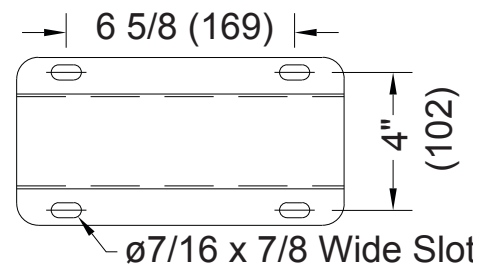
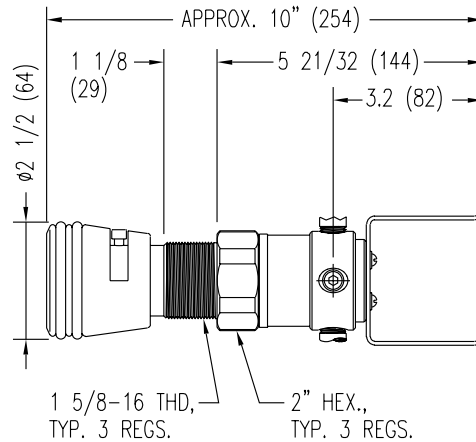
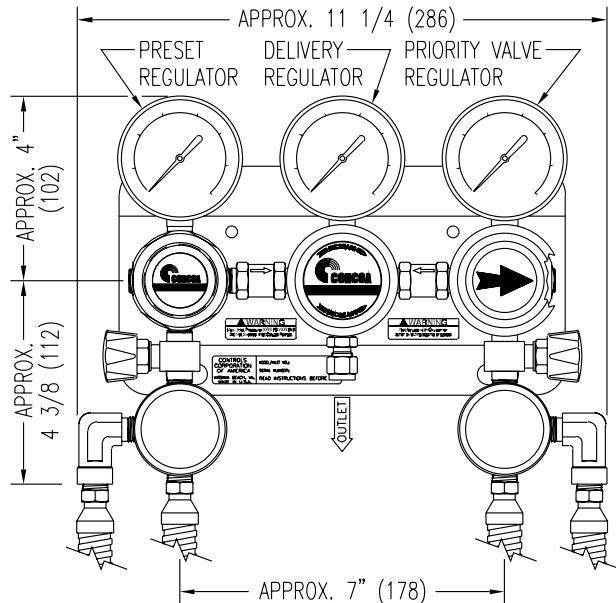
Temperature Range: -40°F to 140°F (-40°C to 60°C)

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: 800 PSIG/150 PSIG (55 BAR/10 BAR) field selectable | 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 needle valves with two 36" † (900mm) flexible hoses (one station per side) | 2: PSIG/BAR gauges with no alarm capability | CGA DIN 477 BS 341 and others available. |
| | 3: 2500 PSIG (170 BAR) | 3: 6000 PSIG* (415 BAR) | 10,000 PSIG/ (700 BAR) | 2: Two needle valves with four 36" † (900mm) flexible hoses (two stations per side) | 4: PSIG/BAR gauges with pressure switches and Altos 2 alarm | 3000 PSIG (210 BAR) inlet option suitable for oxygen service. |
| | 4: 3500 PSIG (240 BAR) | <i>*Not for oxygen service.</i> | | 3: Manifold connectors 3000 PSIG (210 BAR) inlet only* | 8: PSIG/BAR gauges with pressure switches† and without alarm | |
| | | | | <i>*See 52 Series Maniflex Manifold Systems for manifold ordering information.</i> | G: PSIG/BAR gauges with standard transducers (not intrinsically safe) and Altos 2 alarm | |
| | | | | <i>†Diaphragm valves 3000 PSIG (210 BAR).</i> | 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 | |