

Pressure Differential Switchovers





tchover

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
- Plant pneumatic valve supply

Features

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

Switch Shift Delivery Pressure Adjustment

Economizes cylinder gas use

- **Check Valves in Hose Inlet Glands** Prevents contamination and back flow
- Line Regulator Stable line pressure up to 3500 PSIG (240 BAR) during change over

CAPSULE® Seat

Increased serviceability and life

Optional Remote Alarm Easy integration with Advantium alarm systems

Materials

Bodies

316L stainless steel barstock

Cartridges 316L Stainless steel barstock

Seats PCTFE Arlon® (PEEK) and PCTFE with 6000 PSIG (415 BAR) inlet option

Filters Patented 10 micron 316 mesh

Internal Seals Viton®

Weight 22.5 lbs. (10.2 kg) CONCOA

547 2311 shown

Inlet Pressures Available 3000 PSIG (210 BAR) 4500 PSIG (310 BAR) 6000 PSIG (415 BAR)

Specifications

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

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

Outlet Connection 1/4" stainless steel compression tube fitting

Cv

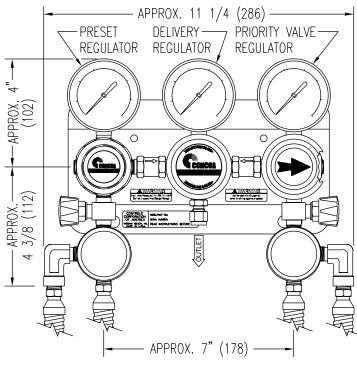
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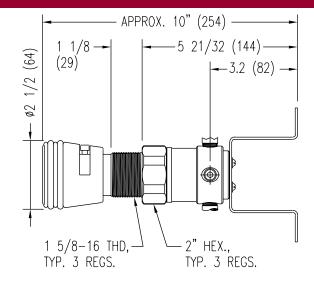
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Installation Information

Ordering Information





| 547 | A | В | С | 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 4000 PSIG (210 BAR) (275 BAR) | 0: 1/4" FPT port | 1: PSIG/kPa gauges with no alarm capability | Please specify inlet connection (if applicable) CGA DIN 477 BS 341 and others available |
| | 2: 1500 PSIG (100 BAR) | 2: 4500 PSIG 6000 PSIG/ (310 BAR) (415 BAR) | 1: Two needle 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: 6000 PSIG* 10,000 PSIG (415 BAR) (700 BAR) | 2: Two needle valves with four 36" † (900mm) flexible hoses (two stations per side) | 4: PSIG/BAR gauges with pressure switches [†] and remote alarm (110/220 VAC) | |
| | 4: 3500 PSIG (240 BAR) | *Not for oxygen service | 3: Manifold connectors 3000 PSIG (210 BAR) inlet only* | 8: PSIG/BAR gauges with pressure switches [†] and without remote alarm | 3000 PSIG (210 BAR) inlet option suitable |
| | | | *See pages 70-71 for manifold ordering information †Diaphragm valves 3000 PSIG (210 BAR) | [†] Intrinsic safety barriers are required for flammable gas service or for use in hazardous environments. | for Oxygen service. |
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