

GAS SWITCHOVER SYSTEMS



632 Series Pressure Differential



The 632 Series pressure differential switchover has been designed as a cost effective solution for high flow applications. With simple priority valve operation, the 632 delivers 15, 50, or 120 psi output at flow rates exceeding 5,000 cfh. The simplistic design exceeds the stringent requirements for oxygen-acetylene NFPA 51 standards. Options include 1000-watt heaters for CO₂, Advantium alarms and Intrinsic Safety Barriers for hydrogen service.

Advanced Features

- **Automatic Pressure Differential Switchover**
- **6700 Regulator Allows for High Flow Capacity**
- **Pressure Ranges 0-15 to 0-120 PSIG**
Broad range of applications
- **Integral Maniflex Manifold System**
Easy installation and expansion
- **Left and Right Banks**
Maintain reserve supply

Applications

Hydrogen Blanketing
Continuous supply

CO₂ Incubator Atmosphere
Dependable performance

Oxy-Acetylene Heating, Brazing or Cutting
NFPA compliant design

Welding/Shielding/Pipe Line Gases
Supply up to 100 drops

Beverage Dispensing Systems
Liquid or high-pressure compatible

Materials

Priority Valve and Line Regulator
Brass barstock

Diaphragms
Fabric-reinforced neoprene

Enclosure
Acrylic powder-coated steel

Tubing and Fittings
316 stainless steel, brass, and copper

Internal Seals
PTFE

Seats
Neoprene, PTFE and Viton®

Pressure Gauges and Switches
Brass, bronze and stainless steel

Check Valves
Brass with Viton® seals

Specifications

Maximum Inlet Pressure

3000 PSIG (210 BAR)

4500 PSIG (310 BAR)

Temperature Range

-40 to 140°F (-40 to 60°C)

Maximum Flow

5000 SCFH (2360 lpm)

Inlet Connection

½" FPT

Outlet Connection

½" FPT

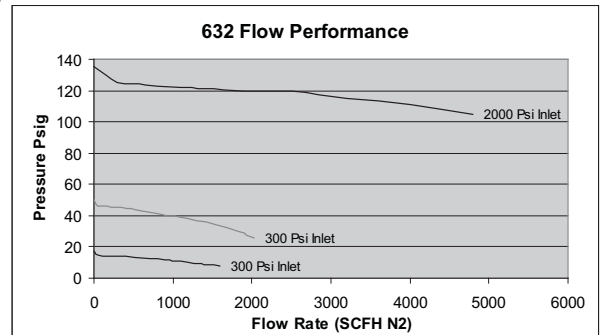
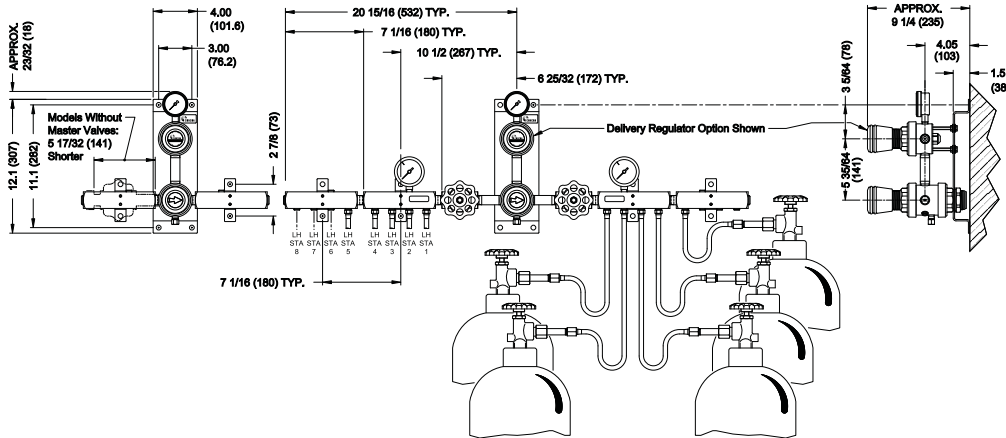
Weight

54 lbs. (25 kg)

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CONCOA
PRECISION GAS CONTROLS

Mounting and Dimensional Information for the 632 Series



Ordering Information

Series	A Outlet Pressure	B Inlet and Gauge Configuration	C Pigtails Per Side (Up to 8)	D Maximum Inlet Pressure	E Inlet Connections	F Options
632		0: ½" FNPT (PSI/kPa)	0: None		-001: ¼" FPT	
	1: 0-15 PSIG* (left side outlet)	1: Master Valve (PSI/kPa)	1: One 36"	1: 3000 PSIG (no alarm capability)†	-CGA, DIN 477, BS 341 and others available.	
	2: 0-50 PSIG (left side outlet)	2: Micromanifold (PSI/kPa)	2: Two 36"	2: 3000 PSIG (with alarm capability)*†		
	3: 0-120 PSIG (left side outlet)	3: Master Valves with Micromanifold (PSI/kPa)	3: Three 36"	3: 300 PSIG (no alarm capability)		
	A: 0-15 PSIG* (right side outlet)	4: ½" FNPT (PSI/BAR)	4: Four 36"	4: 300 PSIG (with alarm capability)*		F: Flashback Arrestors on each Pigtail
	B: 0-50 PSIG (right side outlet)	5: Master Valve (PSI/BAR)	A: One 24"	5: 4500 PSIG (no alarm capability)†		
	C: 0-120 PSIG (right side outlet)	6: Micromanifold* (PSI/BAR)	B: Two 24"	6: 4500 PSIG (with alarm capability)*†		H: 120 V Heater
		7: Master Valves with Micromanifold* (PSI/BAR)	C: Three 24"	7: 3000 PSIG (no alarm capability)‡		J: 220 V Heater
			D: Four 24"	8: 3000 PSIG (with alarm capability)*‡		
			J: One 72"			
			K: Two 72"			
			L: Three 72"			
			M: Four 72"			

*Outlet gauge redline for acetylene service

*Options 6 or 7 required for alarm capability. Intrinsic Safety Barriers ordered separately.

†High pressure only
‡Liquid cylinder primary with high pressure reserve
*Alarm not included. See below for options

Switchovers