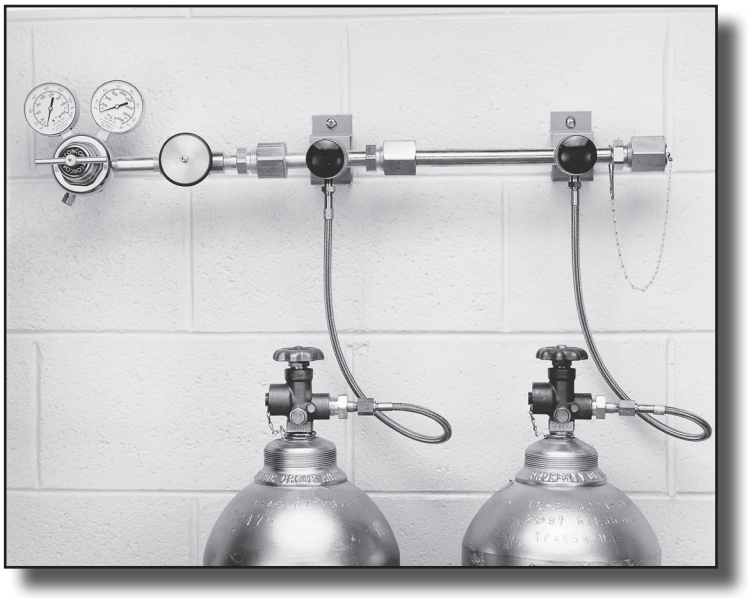
631 SERIES SIMPLEX HF

The 631 Series Simplex combines a modular manifold system with the extra heavy-duty 6700 Series regulator. Line or station regulators should be installed at the point of use to ensure constant delivery pressure. Use of Acetylene requires flashback arrestor on hoses.



Advanced Features

6700 Regulator
High-flow capacity

Pressure Ranges 0-15 to 0-200 PSIG
Broad range of applications

Integral Maniflex Manifold System
Easy installation and expansion

Left and Right Banks
Sizes to fit cylinders on either side

Standard or Compact Lengths
12" or 6" lengths for easy installation

Hose Style Variety
Rigid copper, flexible stainless steel, or braided PTFE

Applications

Pipeline Supply Source
200 PSIG delivery pressure meets NFPA guidelines without compromising flow capacity (15 PSIG maximum for Acetylene)

Fuel Gases
Safely supply Acetylene and other fuel gases for cutting, heating or welding with OSHA regulation compliant manifold systems. Use of fuel gas requires flashback arrestor on hoses.

Materials

Delivery Regulator Body
Brass barstock

Delivery Regulator Bonnet
Forged brass

Master Valve
Forged brass

Diaphragm
Fabric-reinforced neoprene

Internal Seals
PTFE and neoprene

Seat
Neoprene and Viton®

Piping
Forged brass

Hose Core
Stainless steel
PTFE
Rigid copper

Hose Fittings
Brass

Hose Casing
Armored stainless steel
Stainless steel braid

Specifications

Maximum Inlet Pressure
3000 PSIG (210 BAR)

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

Maximum Flow
6000 SCFH (2830 LPM)

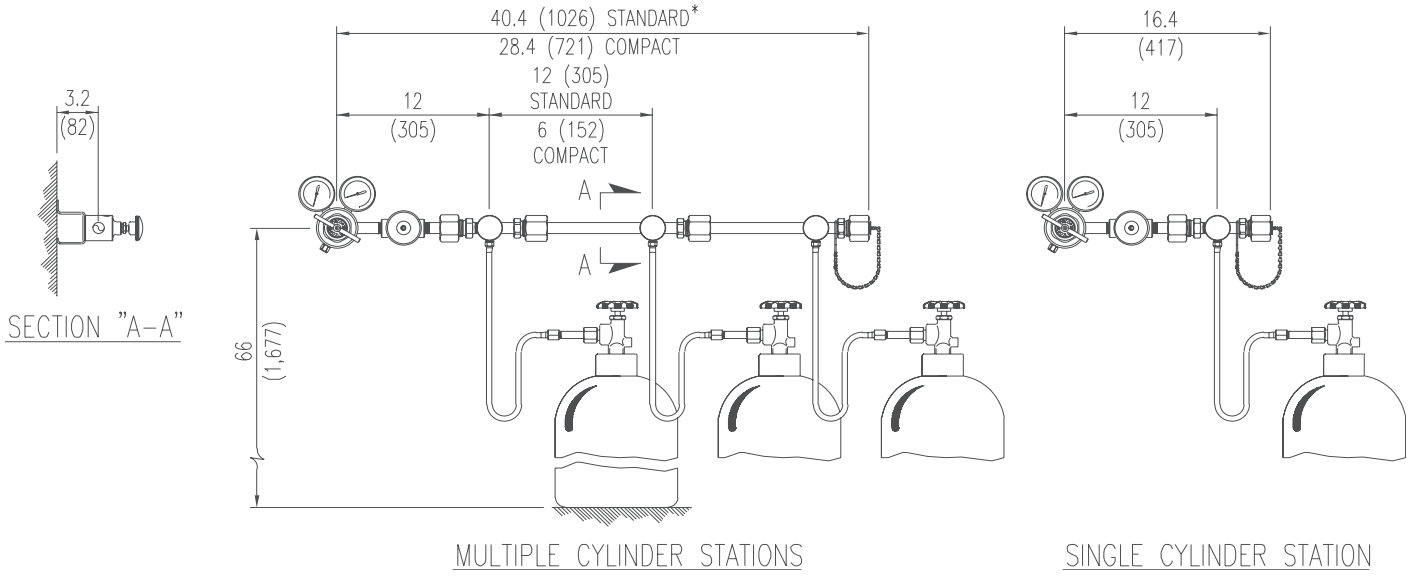
Outlet Connection
1/2" FNPT

Weight
23 lbs. (10.4 kg)

CRN 0H15806.5

MANIFOLDS

Mounting and Dimensional Information for the 631 Series Simplex HF



Ordering Information

Series	Outlet Pressure	Manifold Style	Hose Style	Stations/Side	-Cylinder Connection	Options
631	1: 0-15 PSIG (0-1 BAR)	1: Standard Length (12" between stations) Right Side with One Cylinder/Station	2: 24" Rigid Copper (Not for use with Acetylene CGA 300 & 510)	1: One Station	Inlet connection (if applicable) PTFE-lined hoses for Oxygen service include accumulator extensions to prevent ignition from adiabatic compression. PTFE-lined hoses not for use with Helium or Hydrogen.	C: Foreign Inlets Carbon Dioxide & Inert F: Arrestor for 300, 410, 510 R: Foreign Inlets Air, Hydrogen, Oxygen, Oxygen Mix
	2: 0-40 PSIG (0-3 BAR)	2: Standard Length (12" between stations) Left Side with One Cylinder/Station	3: 72" Flexible Stainless Steel Armor Case with Stainless Steel Core	2: Two Stations		
	3: 0-120 PSIG (0-9 BAR)	3: Standard Length (12" between stations) Right Side with Two Cylinders/Station	4: 24" Flexible Stainless Steel Braided with PTFE Core	3: Three Stations		
	4: 0-200 PSIG (0-15 BAR)	4: Compact Length (6" between stations) Right Side with One Cylinder/Station	5: 36" Flexible Stainless Steel Armor Case with Stainless Steel Core	4: Four Stations		
	5: 0-15 PSIG* (0-1 BAR)	5: Compact Length (6" between stations) Left Side with One Cylinder/Station	6: 36" Flexible Stainless Steel Braided with PTFE Core	5: Five Stations		
		6: Compact Length (6" between stations) Right Side with Two Cylinders/Station	7: 24" Flexible Stainless Steel Armor Case with Stainless Steel Core	6: Six Stations		
		7: Standard Length (12" between stations) Left Side with Two Cylinders/Station	9: 72" Flexible Stainless Steel Braided with PTFE Core	7: Seven Stations		
		8: Compact Length (6" between stations) Left Side with Two Cylinders/Station		8: Eight Stations		
	**Outlet gauge redline for Acetylene service*			9: Nine Stations		

Related Options

Part Number	Option	Description
830 7437	Manifold Floor Stand	Supports two standard length (12") manifold extensions installed consecutively
See page 55	Station Regulators	Precise pressure delivery at the point of use
801 7011 801 7015	Fuel Gas Flashback Arrestors	Use of Acetylene requires flashback arrestors on hoses. Meets OSHA and NFPA Std. 51 requirements and complies with ISO 5175 (heavy class) DIN 8521, and BS 6158 (See page 54)
801 7012 801 7016	Oxygen Flashback Arrestors	Use of Acetylene requires flashback arrestors on hoses. Meets OSHA and NFPA Std. 51 requirements and complies with ISO 5175 (heavy class) DIN 8521, and BS 6158 (See page 54)