

MANIFOLDS



633 SERIES DUPLEX HF

The 633 Series Duplex high-flow switchover supports two banks of high-pressure cylinders for applications where manual control of gas supply is preferred. A heavy-duty valve manually controls the bank priority, and 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 Line 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

Maintain reserve supply

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 gases require 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

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

½" FNPT

Weight

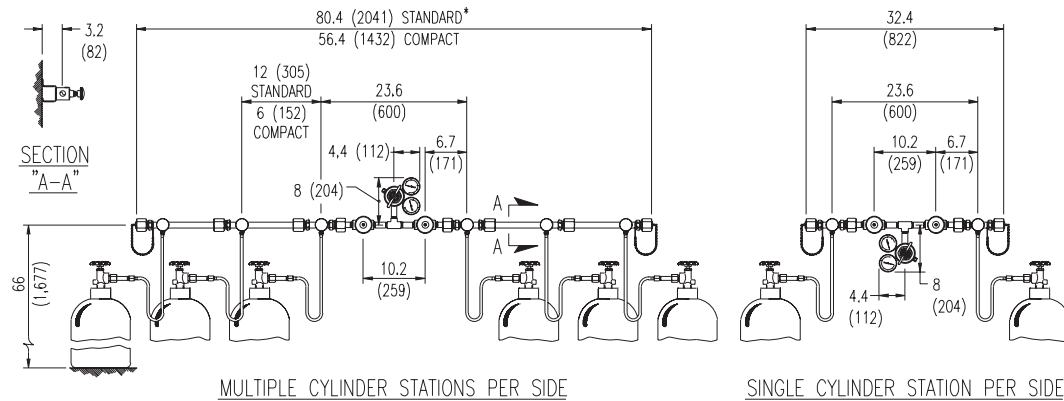
23 lbs. (10.4 kg)

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Mounting and Dimensional Information for the 633 Series Duplex HF

DISTRIBUTION SYSTEMS



Ordering Information

Series	Outlet Pressure	Manifold Style	Hose Style	Stations/Side	-Cylinder Connection	Options
633	2: 0-40 PSIG (0-3 BAR)	1: Standard Length (12" between stations) with One Cylinder/Station	2: 24" Rigid Copper	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
	3: 0-120 PSIG (0-8 BAR)	3: Standard Length (12" between stations) with Two Cylinder/Station	3: 72" Flexible Stainless Steel Armor Case with Stainless Steel Core	2: Two Stations		
	4: 0-200 PSIG (0-13 BAR)	4: Compact Length (6" between stations) with One Cylinder/Station	4: 24" Flexible Stainless Steel Braided with PTFE Core	3: Three Stations		
	5: 0-15 PSIG* (0-1 BAR)	6: Compact Length (6" between stations) with Two Cylinders/Station	5: 36" Flexible Stainless Steel Armor Case with Stainless Steel Core	4: Four Stations		
			6: 36" Flexible Stainless Steel Braided with PTFE Core	5: Five Stations		
			7: 24" Flexible Stainless Steel Armor Case with Stainless Steel Core	6: Six Stations		
			8: 36" Rigid Brass with Flash Arrestor (CGA 300 & 510 Acetylene only)	7: Seven Stations		
			9: 72" Flexible Stainless Steel Braided with PTFE Core	8: Eight Stations		
				9: Nine Stations		
	* Outlet gauge redline for Acetylene service					

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	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)