



Industrial **Switchover** Manifolds



CONTINUOUS GAS SUPPLY



UNINTERRUPTED



PREVENTS DOWN TIME



A LINCOLN ELECTRIC COMPANY

MAKE THE SWITCHOVER



DELIVERY

- All Series 220 and 240 manifolds are shipped in 3-5 business days.



QUALITY

- All Series 220 and 240 manifolds are manufactured in our ISO 9001 and ISO 14001 certified facility and are manufactured to meet all relevant CGA and NFPA 51B requirements.



100% TESTED

- All Series 220 and 240 manifolds are 100% leak tested and performance tested at our factory prior to shipment.



MADE IN USA

- All Series 220 and 240 manifolds are manufactured in our Gainesville, GA, USA facility and have a one year warranty.



DIRECT SUPPORT

- Harris manifolds are supported by our in-house engineering and technical service group.



EASY TO INSTALL

- Detailed instruction manuals and installation videos are available to ensure easy installation of Harris manifolds.



SECURE PACKAGING

- Harris manifolds are packaged in high-density poly-styrene to protect components during shipment.



EXPERTISE

- Harris offers an on-line manifold configurator to assist in proper manifold selection.



CUSTOM DESIGN

- Harris offers customized design solutions for any gas distribution requirement. Harris offers custom 3-D model drawings for all manifolds to ensure they meet performance and space requirements.

220 SPECIFICATIONS

- Integral alarm system is standard, remote A/V alarm optional
- Master shut off valves included
- All systems include stainless steel braided pigtails with PTFE lined inner core except helium and hydrogen systems which have a stainless steel inner core
- Acetylene systems include:
300 SCFH Flashback arrestor, Stainless steel braided pigtails with individual Flashback arrestors and check valves
- Electrical - 115 volts (AC) except for fuel gas
- Manifold outlet - 1/2" NPT
- Relief valve outlet - 1/4" NPT

240 SPECIFICATIONS

- Integral alarm system is standard, remote A/V alarm optional
- Electrical - 115 volts (AC)
- Maximum inlet pressure 350 PSIG
- Manifold outlet - 1/2" NPT
- Relief valve outlet - 1/4" NPT
- 240 Series for use with 235 PSIG relief valve liquid cylinders
- 240HP Series for use with 350 PSIG relief valve liquid cylinders
- 72" Pigtails are standard

[Industrial Switchover Manifold]



THE SERIES 220 MANIFOLDS FOR STANDARD GAS CYLINDERS

prevents downtime by automatically switching gas supply from the primary cylinder bank to the reserve cylinder bank. All components are enclosed and protected inside a tamper-resistant case. A green light indicates the primary cylinder bank is functioning and the reserve cylinder bank is ready for service. A red light alerts the user that the unit has changed over and one or both banks are depleted (except on fuel gas units). The user resets the primary bank by turning the lever whenever the empty cylinders are replaced.

MODEL	MAXIMUM INLET PRESSURE	MAXIMUM FLOW RATE	INTERNAL ADJUSTABLE LINE REGULATOR DELIVERY RANGE
220	3000 PSIG	1200 SCFH	30-125 PSIG
220 (CO ₂ , N ₂ O)	3000 PSIG	35 SCFH	30-125 PSIG
220 (Acetylene, LPG)	400 PSIG	400 SCFH	0-15, 0-30 PSIG
220HL (CO ₂ , N ₂ O)*	3000 PSIG	500 SCFH	30-125 PSIG
220HP	3000 PSIG	2000 SCFH	50-200 PSIG
220HLHP (CO ₂ , N ₂ O)*	3000 PSIG	500 SCFH	50-200 PSIG

*Includes 500 SCFH Heaters



THE SERIES 240 MANIFOLDS FOR CRYOGENIC CYLINDERS

is designed specifically to regulate and monitor vaporized gas from cryogenic cylinders. The Series 240 Manifold prevents downtime by automatically switching over when the primary cylinder bank is depleted. A green light indicates the primary cylinder service bank is functioning and the reserve cylinder bank is ready for service. A red light signals that the system has changed over and one or both banks are depleted. The user resets the primary bank by turning the lever whenever the empty cylinders are replaced.

MODEL	MAXIMUM INLET PRESSURE	MAXIMUM FLOW RATE	INTERNAL ADJUSTABLE LINE REGULATOR DELIVERY RANGE
240	235 PSIG	750 SCFH	40-85 PSIG
240HP	350 PSIG	800 SCFH	40-180 PSIG



➔ MAKE THE SWITCH

[Industrial **Switchover** Accessories]



MODEL US-S10 COMPACT TWO-GAS BLENDER FOR WELDING GAS

Harris Model US-S10 is a small, compact, wall mounted variable ratio gas blender designed to create a mix of welding shielding gases from pure gas cylinders. The gases are mixed in a proportion defined by the user with the turn of a single knob. The mixed gas is then distributed to the welding machines through the pipeline system. The US-S10 requires no receiver tank and no electricity to operate.



MODEL 3530 HIGH FLOW PIPELINE REGULATORS

The Model 3530 is a brass barstock regulator for pipeline and manifold applications, plumbed in-line for inlet pressures up to 3000PSIG. Typical applications include non-corrosive high flow gas applications, process gas analyzer gases, laser gas systems and emission monitoring system gases.



STATION DROPS

Harris station drops are equipped with an in-line shut-off valve, drip leg, outlet cap, chain, and labeled for the gas type. Harris offers a wide variety of station drops for different gas services.



MODEL 8530 DRY FLASHBACK ARRESTOR

Harris pipeline protection devices incorporate dry type flashback arrestors, ASME relief valves and check valves in their design. They are designed to meet requirements of NFPA 51 in fuel gas piping systems. Unlike hydraulic flash arrestors, dry arrestors are maintenance free, do not require fluid and provide continuous safe operation in fuel gas distribution systems.

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