

MODEL MMS-150

MASTER MANIFOLD SYSTEM

A FULL REVERSIBLE SEMI-AUTOMATIC SWITCHOVER MANIFOLD



KEY FEATURES

- Full Reversible sides
- High flow rates
- High flow /High Pressure shutoff valves
- Safety Relief Valves
- Non Return valves
- Low pressure shutoff valves
- Regulators with highflow capsule valve system
- Easy & Fast Regulators replacement system without flow interruption
- STANDARDS / REFERENCES ISO 7291 - Pressure Regulators for Manifold Systems

Applications »

Designed for the specific use of each intended gas, in applications where the continuous flow of a gas is critical and the output pressure differential is tolerated or as a first stage of pressure reduction.

Designed for several outlet pressure where high flow is required such as Laser applications allowing different configurations to use high pressure cylinders or liquid system at gas phase.

Engineered to be use as a full reversible manifold, allowing the use of primary side and secondary side fully for better autonomy of process.

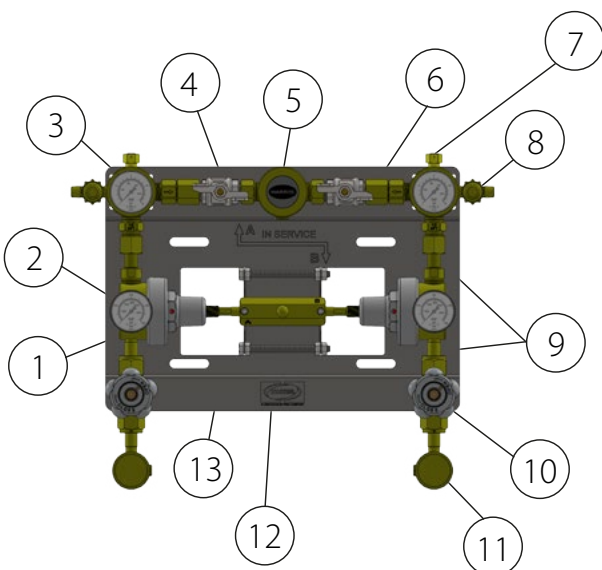
TECHNICAL DATA

MMS-150 High Pressure Cylinder Gas (both side "A" and "B")			MMS-150L For Liquid System/Dewars in the Gas Phase (both side "A" and "B")			MMS-150H For Cylinder (side "A") and Liquid System/Dewars (side "B") in the Gas Phase		
Description Model	Max Inlet Pressure (bar)	Outlet pressure (bar)	Description	Max Inlet Pressure (bar)	Outlet pressure (bar)	Description	Max Inlet Pressure (bar)	Outlet pressure (bar)
MMS-150-06-000	300	6	MMS-150L-06-000	60	6	MMS-150H-06-000	300/60	6
MMS-150-10-000	300	10	MMS-150L-10-000	60	10	MMS-150H-10-000	300/60	10
MMS-150-15-000	300	15	MMS-150L-15-000	60	15	MMS-150H-15-000	300/60	15
MMS-150-25-000	300	25						
MMS-150-50-000	300	50						

MATERIALS

Regulator body	Brass
Regulator bonnet	ZnAl for pressure up to 15 bar and Brass over 15 bar
Diaphragm (regulator)	Stainless Steel 316L
Valves	Brass
Bracket	Stainless Steel

TECHNICAL DRAWINGS



ITEM	DESCRIPTION
1	H25 HF – High Flow Regulator with internal safety valve (IRV)
2	Inlet Gauges 50 mm [MMS: 0-400 Bar , MMS-L/H: 0-60 Bar]
3	Outlet Gauges 50 mm (0-16/0-25/0-60 Bar)
4	Shutoff Valves – Low pressure – high flow
5	1/2" FNPT Outlet Connection
6	Check Valves – low pressure – high flow
7	Relief Valves 10/16/25/35/55 Bar
8	Purge Valves
9	Easy & fast replacement Regulators system
10	High Flow High Pressure Masters Valves
11	1/4" FNPT Inlet Connection
12	Lever System – Sliding balls for smooth handle
13	Bracket - Stainless Steel AISI 304 with Laser inscriptions

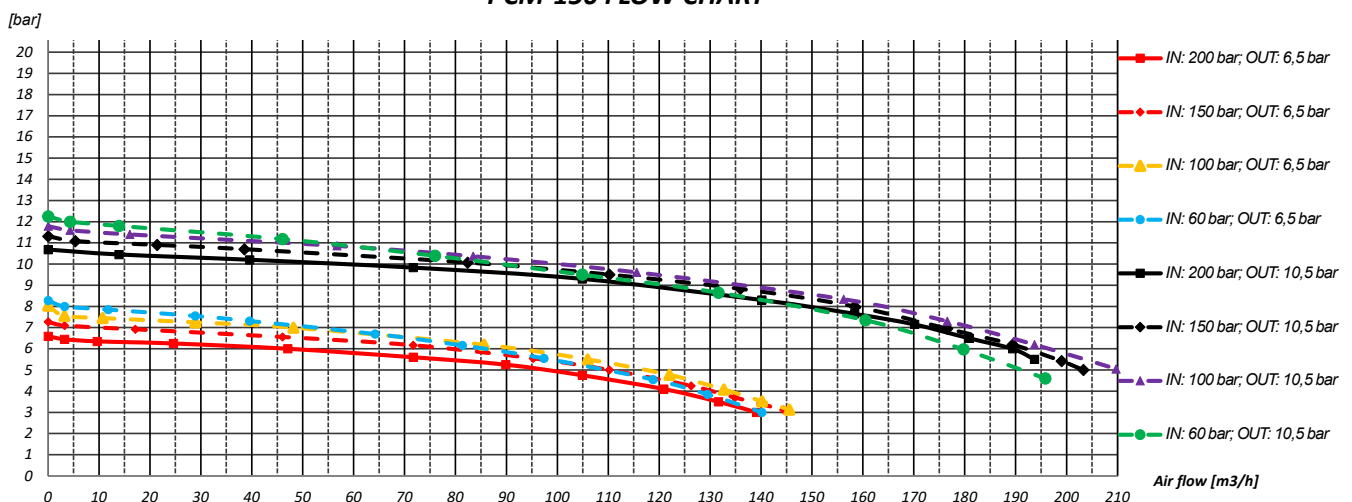
CONSTRUCTIVE CHARACTERISTICS

- H25-HF[*] high flow regulators designed and manufactured in accordance with the latest international standards of ISO 2503 / ISO 5171.
- Regulators mounted with high-pressure capsule and high flow and precision, featuring very low maintenance and easy replacement.
- Improved transfer efficiency between chambers from high to low pressure, with less pressure drop.
- This feature helps the use of gases at very low inlet pressures, enabling better full use of the cylinders.
- Full reversible sides, which allows the full use of one side up to end no matter which side is in use, which improves the autonomy of cylinders.
- Sintered internal filter.
- Stainless steel diaphragm.
- Automatic Internal Relief Valve (IRV) and external – additional safety.
- Purge valves.
- Special high-flow check valves.
- High flow, low pressure shutoff valves.
- Master high pressure and high flow inlet valves.
- Dual system of components on each side of the panel.
- 1/4" FNPT inlet connections.
- Pressure gauges 0-400 bar inlet and different pressures for outlet (0-16/25/60 bar).
- System for easy replacement of regulators in case of possible maintenance.
- Drive lever with adjustment screws with Ball system for smoother handling.
- 1/2" FNPT outlet put connection.
- Bracket made of AISI 304 stainless steel with laser cutting and inscriptions.
- 100% tested equipment: regulators and manifold assembly.
- The panels are factory fitted with the following configuration available:
- Inlet Pressure: 300 bar Maximum
- Nominal Outlet Pressure: 6/10/15/20/25/50
- Min. Flow: 150 m³/h @ 6 bar outlet
- Intended Gas: Oxygen, Inert Gases, Fuel Gases

[*] For MMS-150L and MMS-150H might use MPHf Regulators (Medium Pressure High Flow Regulators)

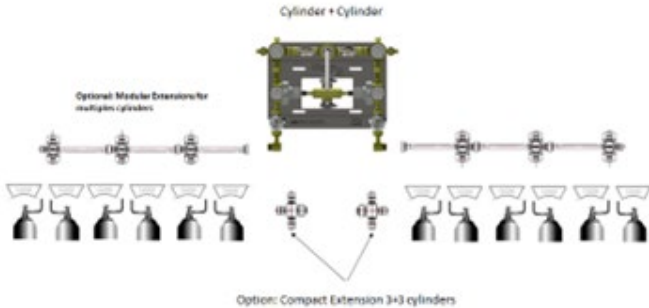
FLOW CHARTS

PCM-150 FLOW CHART

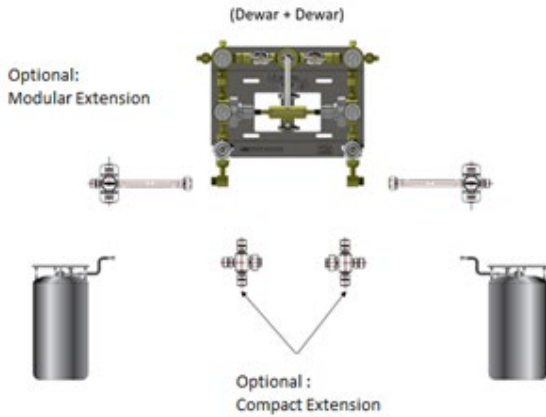


PRODUCT CONFIGURATION

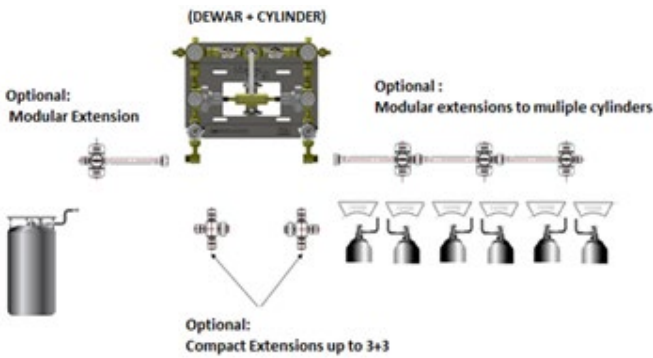
MODEL	MAX INLET PRESSURE [BAR]	NOMINAL OUTLET PRESSURE - OPERATIONAL SIDE [BAR]	AVERAGE SWITCH OVER PRESSURE TO RESERVE SIDE [BAR]
MMS-150-06/10/15/25/40	300	06/10/15/25/40	05/9/13.5/23/32
MMS-150L-06/10/15/20	60	06/10/15/25	05/9/13.5/23
MMS-150H-06/10/15/20/25/40	60/300	06/10/15/20/25/40	05/9/13.5/18/23/32



MODEL SHOWN: MMS-150



MODEL SHOWN: MMS-150L



MODEL SHOWN: MMS-150H (HYBRID)

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Contact Harris for pricing and custom configurations
 +48 74 646 23 52
 marketingharris@lincolnelectric.eu

Harris Products Group
 ul. Strefowa 8, 58-200 Dzierzoniow, Poland
 www.harrisproductsgroup.eu