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Low Profile Manifold Assembly

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The Low Profile Manifold Assembly (LPM) is available in 3 different configurations to suit the cylinder family that it is to be paired with (see " Low Profile Manifold Assembly Configurations" table below). Each configuration includes the proper cylinder-seal O-ring to match the relevant cylinder mounting port, and a High Pressure Relief Device (HPRD) of the correct rating for the cylinder. Contact Mountain High Equipment & Supply (MH) for help in selecting the proper configuration for your needs.

Notes and Cautions:

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- Do not use a cylinder with an incorrect HPRD, or without an HPRD (by sealing/plugging the HPRD port) - severe damage, serious injury or death could result!
- If the cylinder used with an existing LPM is being exchanged, the cylinder-seal O-ring should be replaced
- If the cylinder is being replaced with a different one, the HPRD may also need to be replaced with another of the proper pressure rating for the new cylinder
- Do not attempt to re-use an HPRD once an HPRD is removed, it must be replaced
- Replacement/spare parts are available from MH (see "Assembly Configurations" table)

The **LPM** includes 3 general-purpose J1926 SAE-4F radial ports that are occupied in the default configuration by a 1/8" tube compression fitting, a 3/16" tube compression fitting, and a plug. If ordered together with a cylinder, the LPM can be installed onto the cylinder by MH. Other configurations can also be supplied upon request - contact **MH** for more information.

LPM assemblies as received from MH have been leak-tested and all fittings have been installed with proper torque. The default fittings may be rearranged or exchanged for other SAE-4M fittings as needed, with the following cautions:

- Never work on a pressurized system.
- Install fittings to the proper torque specification using proper tools and procedures
- Cleanliness is critical. Contaminants such as oil, unapproved lubricants or cleaning agents. or metal particles, pose an extreme safety hazard with the potential of fire or explosion.
- Tubing and Fittings obtained from MH have been cleaned for oxygen service and should not need to be re-cleaned so long as proper hygiene has been maintained. Tubing and Fittings obtained elsewhere (even if the same part) may therefore not be suitable for use in oxygen systems unless it is known for certain that they have been properly cleaned.

	Low Profile Manifold Assembly Configurations					
LPM Assembly MH p/n	MH Cylinder Application	Cylinder Service Pressure	Cylinder O-ring MH p/n	HPRD MH p/n		
00MAN-0022-00	CFF-480	3000	09001-3908-70	00VEN-0014-00		
00MAN-0024-00	AL, CFFC	2015	09001-0210-90	00VEN-0015-00		
00MAN-0026-00	KF	1800	09001-3908-70	00VEN-0011-00		

	High Pressure Relief Device Characteristics						
D	HPRD MH p/n	MH Cylinder Application	Cylinder Service Pressure	Disc Rupture Range PSIG @ 160° F MIN-MAX	Rupture Disc Marking	THIRD ANGLE PROJECTION	
	00VEN-0011-00	KF	1800	2700-3000	3000		
	00VEN-0014-00	CFF-480	3000	4500-5000	5000	DO NOT SCALE DRAWING	
	00VEN-0015-00	AL, CFFC	2015	3025-3360	3360		
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GENERAL SPECIFICATIONS

Material: UNS A96061 (6061-T6) Aluminum (LPM Body)

> UNS C36000 (CDA-360) Brass (Fittings)

4.4 oz [124 g] (default configuration) Weight:

Ports: (see Sheet 2)

Pressure Rating: 4500 PSI Test

-65°F to +160°F [-54°C to +71°C] Temp Range: Pressure Relief: (per Assembly Configurations Table) Clean: For Oxygen Service per MH ESR-008

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE

0.XX ±0.010 0.XXX +0.005

ANGLES ± 3° FRACTIONS + 1/64

INTERPRET GD&T PER ASME 14.5

MOUNTAIN HIGH E&S CO. REDMOND, OR. USA

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		DWG		CHEIM	1141 1141//	11/1		
THIRD ANGLE	DRAWN SGO	TITLE	Customer Drawing,					
PROJECTION	20174-07-10		Low Profile Manifold Assembly [SCD]					l .
	CHECKED	DWG NUMBER	5 S	MAN-	002x-00		DWG REV.	C1
WU	ENGINEER	CAD 00MA	N-002x-00\$C1	INV. PART NUMBER	00MAN-0022-00 00MAN-0024-00	PROD. NAME	LPM-75-C	FFC

DWG SCALE ESR-002 Rev H [20] 3 Insert #: 5IMAN-002x-00 C

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DWG FORMAT:

