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REV	ECO	Release	Drawn		REVISION HISTORY
C1	2017-023	7/17/2017	SGO		Customer Drawing
C2	2024-053	10/16/2024	KQM/SGO		HPRD p/n Revision

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 High Equipment & Supply (MH) for help in selecting the proper configuration for your needs.

Notes and Cautions:

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I 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!

I If the cylinder used with an existing LPM is being exchanged, the cylinder-seal O-ring should be replaced I 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

I 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:

I Never work on a pressurized system

I Install fittings to the proper torque specification using proper tools and procedures

I 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.

I 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.

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

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

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

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: ±0.015 ±0.010

INTERPRET GD&T PER ASME 14.5

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

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ture Disc	THIRD A	
3000		
5000	DO NOT	
3360	DO NOT DRAW	

DWG ANGLE SGO 20174-07-10 CTION EAM DWG

FRACTIONS ± 1/64

Customer Drawing, Low Profile Manifold Assembly [SCD]

DWG 5SMAN-002x-00 C2 2024-10-08 NUMBER REV. ENGINEER LPM-75-CFF LPM-75-CFFC 00MANL0022-00 JB CAD INV. PART PROD. 00MAN-002x-00\$C2 00MAN-0024-00 2024-10-08 FILE NUMBER NAME 00MAN-0026-00 LPM-75-KF

SCALE

SCALE

0.XXX +0.005

HBS DWG FORMAT: 2024-10-10 ESR-002 Rev H [20] 3

Insert #: 5IMAN-002x-00

OF 2

DWG Α

SIZE

11x8½

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-0009-00		
00MAN-0024-00	AL, CFFC	2015	09001-0210-90	00VEN-0015-00		
00MAN-0026-00	KF	1800	09001-3908-70	00VEN-0011-00		

)	HPRD MH Cylinder MH p/n Application		Cylinder Service Pressure	Disc Rupture Range PSIG @ 160° F MIN-MAX	Rupture Disc Marking	
	00VEN-0011-00	KF	1800	2700-3000	3000	
	00VEN-0014-00	CFF-480	3000	4500-5000	5000	
	00VEN-0015-00	AL, CFFC	2015	3025-3360	3360	

High Pressure Relief Device Characteristics

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