

The M500 range of manifolds is a compact gas supply system for installations requiring uninterrupted **medium flows** of gas at constant pressure. The manifold is constructed from chrome plated brass and is for use with non corrosive gases. Models are available for industrial and medical applications.

The manifold consists of two banks of cylinders, one on each side of the pressure control assembly. The position of the lever determines which bank of cylinders is "in use" and which is "in reserve". The manifold draws gas from the "in use" cylinder bank until it is emptied. The manifold then automatically starts drawing gas from the "in reserve" cylinder bank. When the emptied cylinder bank has been replaced the lever should be moved to the other side to reset the manifold. More detailed operating instructions are included with each manifold.

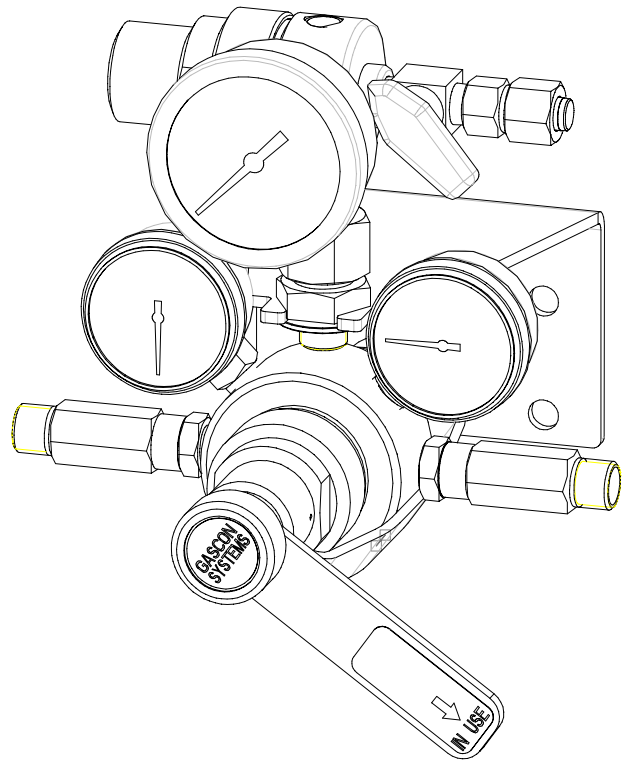
Because of the large number of options and operating requirements for manifold systems, the information contained in this leaflet should be used as a guide only. Please contact Gascon Systems to confirm your selection details.

## M500 FEATURES

- Easy to use change-over lever
- Two inlet gauges indicating supply in gas cylinder pressures at all times
- Large easy to read pipeline pressure gauge
- Pressure relief valve on primary regulators
- Test / Service Connection Point (no need to disrupt supply when checking settings)
- Modular inlet header system for expansion of systems
- Australian designed and manufactured.

## M500 ACCESSORIES

- 3-way auxiliary service facility for medical pipeline systems (refer G1135)
- Inlet purge valves for high purity applications
- Large selection of cylinder inlet leads to suit all types of applications, including copper coils, teflon and tefzel lined stainless steel flexible leads and convoluted stainless steel flexible leads
- Pressure switches for detecting cylinder change-over and/or line pressure failure
- Inlet pressure gauges with built in contact switch for detecting cylinder depletion
- Test port isolation valve (standard on medical manifolds)
- Extension kits for use with multiple cylinder banks.
- Cylinder retaining brackets

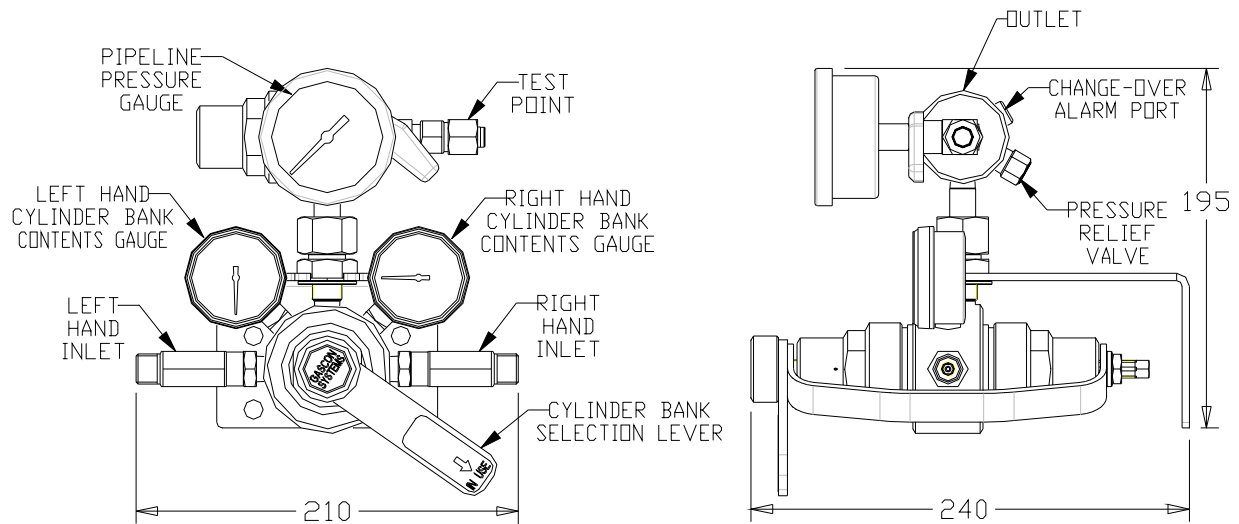


## M500 BASIC SPECIFICATIONS

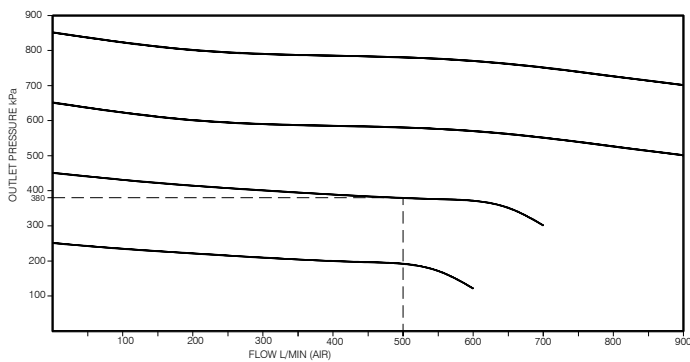
Maximum Inlet Pressure .....	200 Bar @ 15° C
Outlet Pressure Ranges .....	up to 1500 kPa
Inlet Connection .....	3/8" BSP RH for industrial non-fuel gases
.....	3/8" BSP LH for industrial fuel gases
.....	as per AS2896 for medical gases #1
Outlet Connection .....	1/4" NPT Female
Temperature Operating Range.....	0-60° C
Weight .....	4.9 kgs
Basic Dimensions .....	210mm x 195mm x 240mm

#1 – older "CIG" gas specific inlets also available upon request

## BASIC DIMENSIONS



## FLOW PERFORMANCE CURVE (inlet pressure 2000kPa)



### Manifold System Design

When selecting components, the total system design must be considered to ensure safe, trouble-free performance. Component function, material compatibility, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

It is advised that system installers and users be familiar with the recommendations detailed in appropriate national standard, (eg. Australian Standards AS2896 Medical Gas Systems, and AS4289 Oxygen and Acetylene Gas Reticulation Systems).

For systems requiring higher flow capacities refer manifold models M700 & M1000.

In the interests of continuous improvement, Gascon System Pty Ltd, reserves the right to change the specifications or design of any of its products without prior notice.

## ORDERING INFORMATION

XXXX	-	XXX	-	XXX	-	XXX	-	XX
MODEL		OUTLET PRESSURE (kPa)		GAS		No. OF CYLINDERS		OPTIONS
<b>M500</b>		Standard Manifold		AIR Air		1x1 1 cylinder per bank		<b>01</b> – Pressure Switch Change-Over
		User defined		AR Argon		1PxP 1 manpack per bank		<b>02</b> – Pressure Switch Line Failure
<b>MM500</b>		Medical Manifold		He Helium		2x2 2 cylinders per bank		<b>03</b> – 3-Way Auxiliary Service Facility
				H2 Hydrogen		3x3 3 cylinders per bank		<b>04</b> – Inlet Purge Valves
				LPG Propane		4x4 4 cylinders per bank		<b>05</b> – Inlet Contact Gauges
				N <sub>2</sub> Nitrogen				<b>06</b> Combined Mounting Plate for Manifold and 3 way Auxiliary Service facility
				OXY Oxygen				
				OTHERS GASES				
				by name or symbol				

**Note:** There is a specific model number (M500TT) for a medical turbine tool manifold assembly

### ORDER EXAMPLES

M500-600-AIR-1x1

MM500-415-OXY-3x3-01-02-03

Standard air manifold with an outlet pressure of 600kPa, one cylinder per side

Medical oxygen manifold with an outlet pressure of 415kpa, 3 cylinders per side, with change-over pressure switch, line failure pressure switch and 3 way auxiliary service facility.

**GASCON**  
SYSTEMS

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