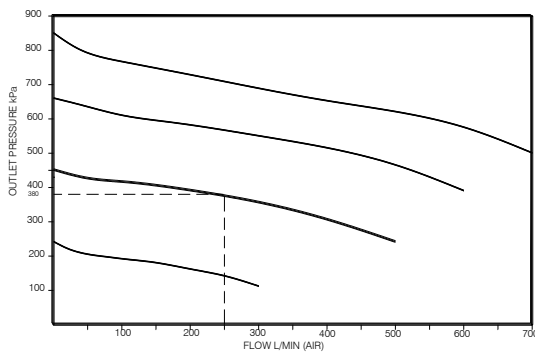


M120 Auto Change-over Manifold



- Models for different gas purities
- Customisable to different applications
- Modular inlet header system for system expansion
- Wide range of optional accessories
- Australian made

Flow Performance:



The M120 range of auto change-over manifolds are compact supply systems for installations requiring uninterrupted low to medium flow capacities of non-corrosive gases.

The auto 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 “reserve” cylinder bank. When the emptied cylinder bank has been replaced the lever should be moved to the other side to reset the manifold. This resetting of the manifold swaps the “in-use” and “reserve” supply banks. This ensures that gas is taken from the partial emptied supply bank, leaving the recently replaced supply bank in “reserve”.

Models are available for industrial, laboratory and scientific applications. There is also a range of optional accessories available for use with the manifold allowing it to be configured to a wide variety of specifications. For more detailed information on these accessories refer to Gascon’s auto change-over manifold information booklet. There are separate auto manifold models specifically designed for medical applications.

Specifications:

- Max. Inlet Pressure:** 20,000 kPa @ 15°C
- Outlet Pressures:** up to 1,200 kPa
- Flow Capacity:** see flow curves
- Outlet Connection:** 1/4” NPT female
- Header Connections:** 3/8” BSP RH for non flammable gases
3/8” BSP LH for flammable gases
- Weight:** 4.9 kg (basic model)

Materials:

- Body:** Chrome plated brass bar stock
- Fittings:** Brass and chrome plate brass
- Diaphragms:** Neoprene, PTFE coated neoprene, EPDM or STST (according to model and gas)
- Seats:** PCTFE
- Filters:** Cupro Nickel

ORDERING INFORMATION M120 - XXX - XXX - XxX - XXXX

Model	Outlet Pressure	Gas	Supply Source	Options
M120 Industrial Manifold for grade 3.5 (99.95%) gases	Required Outlet Pressure in kPa	ACET (Acetylene)	1x1 1 cylinder x 1 cylinder	01 Change-over pressure switch
PM120 Laboratory Manifold for grade 4.5 (99.995%) gases		AIR (Air)	2x2 2 cylinders x 2 cylinders	02 Line failure pressure switch
HM120 Scientific Manifold for grade 5.5 (99.9995%) gases		AR (Argon)	3x3 3 cylinders x 3 cylinders	03 3 way auxiliary inlet supply
		CO (Carbon Monoxide)	4x4 4 cylinders x 4 cylinders	04 Inlet purge valves
		CO2 (Carbon Dioxide)	5x5 5 cylinders x 5 cylinders	05 Inlet alarm contact gauges
		FUEL (Flammable Gases)	1Px1P 1 manpack x 1 manpack	06 Combined mounting plate
		HE (Helium)		07 Inlet pressure switches
		H2 (Hydrogen)		08 Line pressure relief valve
		INERT (Inert Gases)		09 Flashback arrestor
		METH (Methane)		10 Test point bleed valves
		N2 (Nitrogen)		11 Auxiliary inlet supply
		N2O (Nitrous Oxide)		12 Emergency shut-off solenoid valve
OXY (Oxygen)		13 Excess flow shut-off valve		
OTHERS by Symbol		14 Simple alarm panel		
		15 Cylinder Restraints		
		16 Gas Heaters		

Ordering examples

- PM120-700-N2 3x3 01 Laboratory manifold for nitrogen, 700 kPa, change-over pressure switch, 3 cylinders per supply bank
- HM120-1000-H2 1x1 04 09 Scientific manifold for hydrogen, 1000 kPa, inlet purge valve, line FBA, 1 cylinder per supply bank

For continuous flows of carbon dioxide and nitrous oxide above 100 l/min please consult manufacturer