

M90 PLC Auto Change-over Manifold



The M90 range of auto change-over regulators are designed specifically for the situation where the primary gas supply is a liquid vessel (eg. PLC, FLC) and an emergency reserve supply is from one or more high pressure cylinders. When the gas supply in the vessel is exhausted, the cylinder supply automatically takes over supplying the pipeline system. Once the vessel is re-filled it automatically resets the regulator and takes over as the primary supply source. The vessel used with an M90 regulator must be of the regulated outlet pressure type.

The M90 features two inlet gauges indicating supply in gas cylinders at all times as well as a large easy to read pipeline pressure gauge. It also has a pressure relief valve on the primary regulators and a connection port for a change-over alarm.

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.

Specifications:

Max. Cylinder Inlet Pressure: 20,000 kPa @ 15°C

Vessel Inlet Pressure: 1250 kPa Minimum, 2500 kPa Maximum
(Note: Vessel inlet pressure must be at least ??? kPa above desired outlet pressure)

Outlet Pressures: up to 800 kPa

Flow Capacity: see flow curves

Outlet Connection: 1/4" NPT female

Header Connections: 3/8" BSP RH for non flammable gases

Weight: 3.7 kg (basic model)

Dimensions: 210mm x 155mm x 195mm

Materials:

Body: Chrome plated brass bar stock and diecast bonnets

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 M90X - XXX - XXX - XxX - XXXX

Model	Outlet Pressure	Gas	Supply Source	Options
M90R Right Hand Vessel Left Hand Cylinder	Required Outlet Pressure in kPa	AIR (Air)	1xPLC 1 cylinder x 1 PLC	01 Change-over pressure switch
		AR (Argon)	2xPLC 2 cylinders x 1 PLC	02 Line failure pressure switch
M90L Left Hand Vessel Right Hand Cylinder		CO2 (Carbon Dioxide)	3xPLC 3 cylinders x 1 PLC	04 Inlet purge valves
		N2 (Nitrogen)	4xPLC 4 cylinders x 1 PLC	05 Inlet alarm contact gauges
		N2O (Nitrous Oxide)	5xPLC 5 cylinders x 1 PLC	
		OXY (Oxygen)	1PxPLC 1 manpack x 1PLC	
		OTHERS by Symbol		

Ordering examples

M90R-600-N2-1xPLC

Industrial change-over regulator for nitrogen, 600 kPa, 1 cylinders and 1 PLC on right hand side

M90L-800-OXY-2xPLC-01

Industrial change-over regulator for oxygen, 800 kPa, 2 cylinders and 1 PLC on left hand side, with chang-over pressure switch