

P2.0 OXYVAC-GM

✉ oxyvacindia@gmail.com
🌐 www.oxyvacindia.com
☎ 9726024747



OXY VAC India Works
Designing a Customized Solution for Gas Industries



GAS MANIFOLDS



Important

This Equipment should be operated & maintained only by technicians who are suitably trained, experienced with Industrial gas filling plant and fully conversant with the specifications.

In pursuing a policy of continuous improvement, the company reserves the right to alter the specification of any product without prior notification

Description

General

Oxyvac is the Indigenous Manufacturer of Different Range of Industrial Gas Cylinder Manifolds.

It is specially designed for use of Gas efficiently. We manufacture Gas Manifold to client in complete compliance with industry standards using best quality materials. Prior to supply and installation gas manifold stringently tested on standard quality parameters

Manifold is a Modular design concept as given in GA Drawing Figure And it is a portable assembly which is designed to connect to a cylinders includes fittings and pressure gauge.

- 🔧 We provide gas manifolds of different gases types and different gases application with Normal Use and Auto changeover System.
- 🔧 Providing good quality and durable gas manifold in SS 304, Brass-Copper, SS 316 and MS materials.
- 🔧 Gases Application: Argon, Nitrogen, Oxygen, Hydrogen, Compressed Air, LPG, Natural Gas, Ammonia, CH₄, CO₂ etc.
- 🔧 Working Pressure: 0 to 400 Bar.
- 🔧 High Purity gases and Ultra pure gases Manifolds also providing

All the components and equipments are meeting the Technical Standards/Specifications.

Features:

- 🔧 Robust construction
- 🔧 Smooth operation
- 🔧 Longer service life
- 🔧 Elevated durability

Item Description	Gas Manifolds
Application	Gas Using
Design Codes	ASME B31.8, ASME Sec. VIII Div.1, EN and PESO GCR rules 2016
Design Life	15 Years
Material of Construction	IS2062/SS304/SS316/BRASS/COPPER
MAWP	150-400 BAR

Gas Manifolds

The GA diagram and some photos of the Gas Manifold is shown in Fig.



Main Component of Gas Manifolds

(01) Frame and Header construction

- Wall and Ground mounted fitting with chain clamping.
- Manifold Construction with SS 304 block TIG weld with SS 304 seamless tube size 1/2" X 80 sch.
- Brass valve- wheel/spindle type – techno/Reputed make
- Hydro tested at 1.5 times of working pressure & pneumatic tested at 1.1 times of working pressure
- Epoxy painting powder coated

(02) Pressure Gauge

Pressure gauges of Range 0-400 Bar, Dial size 4" Panel Mounted Provided of Baumer /Micro Make, MOC: SS316, 1/2" x 6000# needle isolation Valve, MOC: SS304, Make: Arya

(03) Angle Type Isolation valve

Angle type isolation valves provided at Headers for each cylinder isolation, Connection of valve depends on type of Gas. Tekno make wheel operated valves, MOC: Brass, WP-200 to 300 Bar.

- Minimum cycle life: 2000 cycles as per EN ISO 10297:2006
- Operating temperature: -20 C to +65 C
- Minimum closing torque: 3 Nm
- Maximum closing torque: 7 Nm
- Gland nut tightening torque: 60-70 Nm
- Retainer plug tightening torque: 30-35 Nm
- Maximum working pressure: 200-300 Bar
- Lubricant - Oxidizing gases: Krytox NRT 8908/Gleitmo 599.
- Flow coefficient (Cv): 0.35 (Flow orifice dia. 4.00 mm)
- Meets EN ISO 10297:2006, certified by BAM Berlin.
- Meets IS: 3224:2002, approved by PESO Nagpur, supplied under BIS inspection.

(05) Safety Relief Valve (Optional)

General Design: One design and one stem for gas, liquid and multi phase.

- Self Draining Body design avoids residues and reduces corrosion.
- Opens rapidly within an overpressure maximum 10% to full lift.
- Maximum blow down within 10% for gas service.
- Design and tested in accordance with the rule of DIN EN ISO 4126 and ASME section VIII Div.1.



(07) Pigtails SS Flexible and Copper Pigtails

- 1/4" size inner Teflon tube and outer SS wire double braided and both end brass fittings as per gas specification. Pigtails full length covered by safety wire rope and spring protected.
- MAWP-250 bar, Hydro tested: 400 Bar.
Rigid Copper pigtails silver brazed with brass fittings gas specific.