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OXY VAC India Works
Designing a Customized Solution for Gas Industries



**CYLINDER
QUAD &
SKID
MANIFOLD**



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 Quad includes Mobile vehicle mounted Skid-Bank

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

Manifold Cylinder pallet/bundle is a Modular design concept as given in GA Drawing Figure And it is a portable assembly which is designed to be routinely lifted and consist of a frame and 20/16/12/9 high pressure gas cylinders stacked and connected to a common manifold by cylinder valves, fittings and pressure gauge, so that the cylinders can be fitted, transport and emptied without disassembly.

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

Features:

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

Item Description	Gas Cylinder Quad, Skid, MCP, Bank
Application	Gas storage and transportation
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	150-300 BAR

The GA diagram of the Gas Quad-Skid is shown in Fig.1





Main Component Cylinder Quad-Skid

(01) Frame

The bolted, MS structure frame should be strong enough for providing protection for the bundle's cylinders, valves and manifold, which enable the bundle to be transported. Gas Cylinder Cage made from MS Fabricated Materials Like 50x50x4 mm Box pipe, 50x50x6 mm Angle, PVC clamps, Stud bolts etc.

- ⑦ The cylinder pallets provided with rotatable castor wheels of 4 nos at four edge with suitable locking arrangement for easy mobility.
- ⑦ Manifold: All the gas cylinders in each pallet shall be inter connected as manifold with single common outlet having shutoff valve and pressure gauge of 4" dial size.
- ⑦ The operating pressure for the manifold, pipelines and fittings will be 230 bar and tested at 345 bar (1.5 times of operating pressure of 210 bar)
- ⑦ The bottom side of the pallet is provided with provision for handling/lifting by Forklift and lifting hook provision at the top for lifting with crane hook.
- ⑦ The cylinder pallet painted with Grey color enamel paint.
- ⑦ Design, Manufacture & Testing of Manifolded Cylinder bundle complied with IS 10961:2010.
- ⑦ One side caution board with HAZCHEM number provided.

(02) Pressure Gauge

Pressure gauges of Range 0-400 Bar, Dial size 4" Bottom Mounted Provided of Baumer /Micro Make, MOC: SS316 ½" 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.

(04) Pigtails SS Flexible and Copper Pigtails

- ⑦ ½" 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.
- ⑦ MAWP-250 bar, Hydro tested: 400 Bar.
- ⑦ Rigid Copper pigtails silver brazed with brass fittings gas specific.

(05) Pressure reducing Valve (Optional)

- ⑦ ½" Line size Pressure regulator provides which can reduce pressure 200 Bar to 0-10 Bar.
- ⑦ Outlet pressure settable 0-10 bar