



SRI VENKATESHWARA ENGINEERING



*One Stop Solution for
Gas Applications*



www.sribalajiind.in

Quads / Cascades

Quads/cascades are a bunch of cylinders, all interconnected, filled or discharged together and loaded or unloaded as a bunch. Quads/cascades are used where high volume of gas is required to be fed at a regular flow rate and pressure without an interruption. In this kind of applications or industries the usage of conventional gas cylinders on one at a time, becomes highly undesirable because of time wasted in cylinder changeover, cylinder handling, gas wastage etc. Also, when higher quantity of gas is to be fed as per process requirement, use of single cylinder becomes non-feasible due to its low gas storage volume constraint. For these kinds of applications, gas cylinder quads or cascade or pallets or banks are used.

- Can be designed for storage of 2 cylinders to 300 cylinders.
- Solid cage structure made of alloy steel to withstand the external impacts, also comes with provision for forklift handling and hook for handling using a crane or hydra.
- Reduces manual handling of cylinders.
- To avoid corrosion, quads/cascades are galvanized, therefore, these can be used in offshore applications as well as in corrosive environments.
- Safer handling of cylinders, as the movement of cylinders is arrested in all the axes of movement
- System comes with pressure gauge, filling and discharge valves.
- Quad assembly can be fabricated for skid mounted trailers.
- Gas services offered: Oxygen, Inert Gases, Nitrogen, Argon CO2 Mixer Gases, Acetylene, Hydrogen Gas, etc.
- Two types of quads: Vertical Cylinder Quad and Horizontal Cylinder Quad.
- Vertical Cylinder Quad: where the cylinders are placed vertically, with manifold placed above the cylinder. Feasible for up to 16 cylinder storage.
- Horizontal Cylinder Quad: in this type the cylinders are placed horizontally, can be used to store over 20 cylinders in a single pack.

We also design and fabricate customised quads/cascades based on your requirement.

- We fabricate and supply 300+ Manifold Cylinder Pallets and 450+ Cylinder Pallets to M/s. Linde India and M/s. Linde Bangladesh, every financial year.
- We fabricate and supply 150+ Manifold Cylinder Pallets, DA clusters, 48 cylinder Hydrogen Quads to M/s. Praxair India, every financial year.
- We designed, fabricated and supplied 3 skid mounted trailer for storage, transportation & usage of over 200 hydrogen cylinders.

few of our other customers are: M/s. Sicgil Sol India limited, M/s. INOX Air Products, M/s. Jhajjar Power Station Limited, Indian Institute of Sciences, ISRO and many more....



Other Products

- Gas Manifold
- Vacuum Jacketed Pipeline / Cryo Pipeline
- High Pure Gas Handling Equipment / Orbital Welding
- **Quads / Cascades**
- Manifold Cylinder Pallet / Cylinder Pallet
- Gas Filling Station
- Hydro Testing Station / Cylinder Testing Station
- Centralized Gas Piping / Gas Tubing
- Gas Mixer / Gas Blender
- Flexible Hoses
- Copper Pigtaills
- High Pressure Main Valves
- Pressure Relief valve (SRV & TRV)
- Gas Regulators
- Brass / SS Gas Fittings
- Flash Back Arrestor
- Cryogenic Tank Repair
- Accessories for Gas Systems
- AMC for Gas Systems

**Our Gas Systems
have been approved
by World leaders in
Gas Industry**

www.sribalajiind.in
info@sribalajiind.in



Our Clients



Our Gas Systems are approved by World leaders in Gas Industry such as Linde India, Praxair India, Inox Air Products, Taiyo Nippon and by leading industries in other sectors such as GE Health Care, Applied Material, Bosch, Mylan Laboratories, Titan, Samsung, Volvo, Mahindra Aero Space, Kalyani Rafael and Many more.



Address:

SRI VENTAKATESHWARA ENGINEERING
Plot No. 20/2, Near KIADB Industrial Area,
Chintamani Road, Mallimakanapura, Hosakote Taluk,
Bangalore-562 122.

info@sribalajiind.in

M: +91 98451 96806

M: +91 85530 89891

M: +91 94807 56806