

HIGH PRESSURE SUPPLY SYSTEM

General information

The **Taema High Pressure Supply System**, has been specially designed for the distribution of medical gases. It ensures continuous gas distribution in complete safety by means of a fully automated change-over system, supply manifolds and alarm system.

Performance

- The **HP SYSTEM** is available in adjustable modules and allows a maximum number of configurations.
- Supply from 2 x 1 to 2 x n cylinders or supports.
- A completely redesigned **VIGI 3000** type alarm system with LED screen pressure display, mirror unit to remote all available information and **MODBUS** connection to the Central Technical Control Device.
- Two pressure reducer levels for safe pressure reduction; provides stable pressure level no matter what the gas flow rate.

High degree of safety

Reduced risk of adiabatic compression for all high pressure components. Does not contain substances likely to give off toxic gases in case of fire. Automatic switch over to emergency medical Air system with alarm. Transparent and lead-sealable protection cover. All components conform to EN 737-3 and ISO 7396-1 norms.

Versatility and upgradability

Compatible with all medical gases: O₂, Air, N₂O, CO₂, N₂. Flow rate up to 80 m³/h. Unlimited capacity for cylinders in series with extension possibilities if required.

Use and maintenance

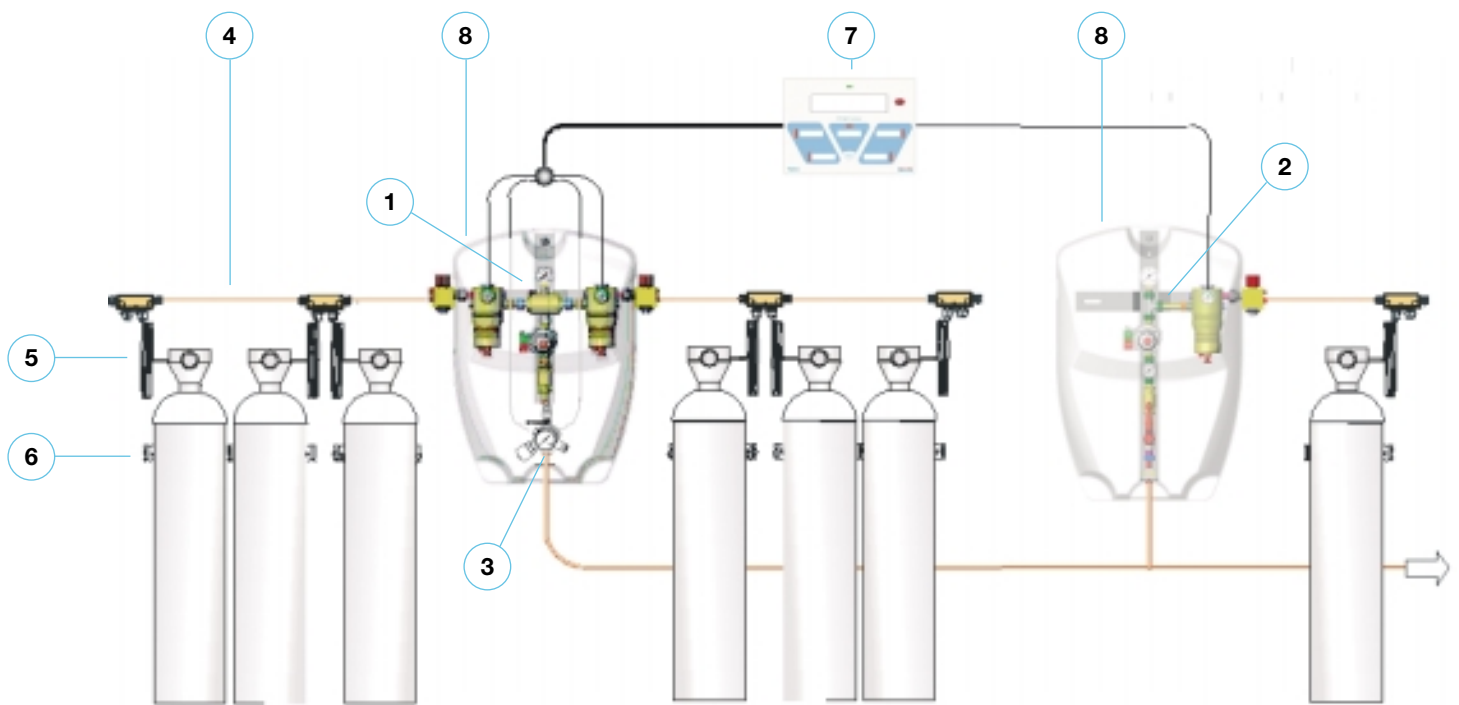
Direct pressure readings. Automatic changeover without manual resetting. Pigtailed connections for rapid connections of cylinders. Maintenance of pressure reducers; modules change every 5 years. Annual filtration kit.

Safety requirements

All high pressure connections should be 5 x 10 degreased copper tubes. A 10 x 12 degreased copper tube should be used to connect to network. Check that the alarm system is working properly by starting on the supply system the alarms corresponding to each alarm system type. All components are degreased and medical O₂ compatible.

Do NOT lubricate any organ components.

Use only genuine or authorised spare parts. Materials used in manufacturing the **HP System** device are not compatible with acetylene and corrosive gases.


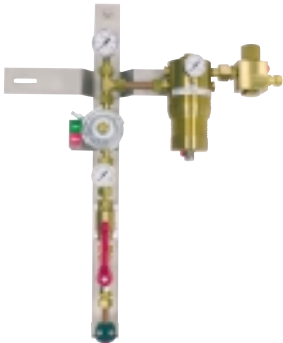




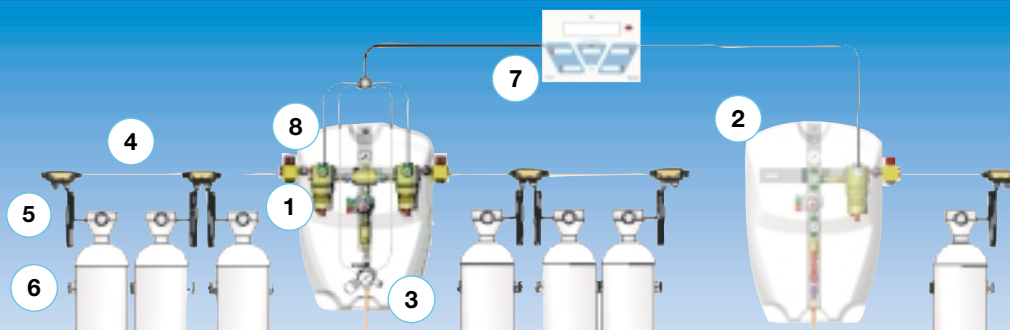
- 1 Reducer-Changeover
- 2 Back-up
- 3 VSP
- 4 Manifold
- 5 Pigtailed/Ball-socket connections
- 6 Cylinder rack
- 7 Monitoring and alarm
- 8 Cover

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Taema HP Supply System components

1	Reducer-Changeover sub-assembly	All medical gases	2 filtering purge valves, 2 HP reducers with built-in safety valves, 1 automatic changeover, 1 MP reducer, 1 non-return valve, with all components assembled on a frame ready for connection.	
2	Back-up sub-assembly	All medical gases	1 filtering purge valve, 1 HP reducer with incorporated vent valve, 1 pressure gauge, 1 MP reducer, 1 non-return valve, 1 shut-off valve, with all components assembled on a frame ready for connection.	
3	VSP (emergency and maintenance supply) sub-assembly	To be selected according to gas used	1 shut-off valve, 1 gas-specific connection, 1 0-16 bar pressure-gauge, 2 (1/4" G-CYL) sensor connection points, all components assembled and ready for connection. Install 1 Sensors connection assembly at the Reducer-Changeover exit if the VSP is installed elsewhere on the network.	
4	Manifold sub-assembly	All medical gases	HP Valve box: 1 box for 1 or 2 cylinders. Bundle station: 1 support for 1 or 2 cylinders. 5 x 10 HP copper tube.	



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5	Pigtailed/Ball-socket connections sub-assembly	To be selected according to gas used	Pigtailed connections sold in pairs one right and one left. Ball-socket connections sold in units, both the right and the left being identical.	
6	Cylinder rack sub-assembly	All medical gases	Rack: 1 per cylinder.	
7	Monitoring and alarm sub-assembly	All medical gases	<p>2 VIGI 3050: 1 main unit and 1 mirror unit.</p> <p>3 0-250 bar pressure sensors:</p> <ul style="list-style-type: none"> - 2 sensors to be installed on the HP reducers of the Reducer-Changeover sub-assembly for monitoring manifolds, - 1 sensor to be installed on the Back-up HP reducers for monitoring the Manifold. <p>2 0-16 bar pressure sensors to be installed on the VSP or on the Sensors connection assembly with 2 1/4" gas male / M10 x 100 female adapters.</p> <ul style="list-style-type: none"> - 1 sensor for detecting device switchover to Back-up system, - 1 sensor for monitoring network pressure. 	
8	Cover sub-assembly	All medical gases	2 protection covers: 1 for the Reducer-Changeover sub-assembly and 1 for the Back-up sub-assembly.	
9	Labels and safety requirements sub-assembly	To be selected according to gas used	2 gas labels: 1 for the Reducer-Changeover sub-assembly and 1 for the Back-up sub-assembly. 1 notice giving the general safety requirements .	