

HIGH PRESSURE SUPPLY SYSTEM VSP

The **VSP** (main shut-off valve) is used to isolate the **HP System** from the client network, reduce excess pressure, and provide gas supply in complete safety during sensor installation and connection for network monitoring.



O₂ VSP

Performance

- Ball plug guarantees excellent seal tightness.
- High precision of valve set point.
- Direct reading of network pressure.
- Relief valve changes and inlet maintenance without interruption of gas supply.

High degree of safety

- Reduces client network pressure.

Composition

The **VSP** consists of the following components:

- 1 quarter turn valve,
- 1 relief valve,
- 1 pressure gauge,
- 2 sensor connection points,
- 1 gas-specific supply source for emergency or maintenance purposes.

The general safety requirements notice and a label indicating the name of the gas should be affixed on the valve system (VSP) after installation.

Features

Gases: O₂, Air, N₂O, CO₂, N₂.

Maximum operating pressure: 20 bar.

Port size: 10 mm.

Flow coefficient (KV): 32.

Max. flow at the emergency connector: 70 m³/h.

Valve set point: opening at 10 bar; closure at 8 bar.

Inlet connector: 1 ring coupling for 14 mm Ø copper tube.

Output nozzle: 1 ring coupling for 12 mm Ø copper tube.

Sensor connector point: 1/4" gas.

Supply plug: NF according to gas.

Weight: 1.4 kg.

Material: body in nickel brass.

Dimensions: 200 mm (H) x 160 mm (L) x 70 mm (W).

Maintenance

Functional verification of all components once every year and after each commissioning.

Connections: preventive maintenance every 5 years (replacement of the filter valve nozzle guide).

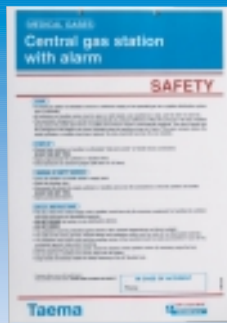
Safety requirements

According to CE directives, the **VSP** should be rapidly identifiable, easily accessible and protected against outside manipulations.

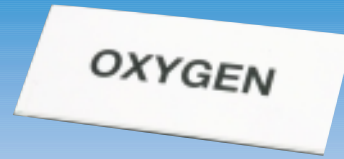
If assembled and placed above the **Reducer-Changeover** system, the cover ensures adequate protection. If placed elsewhere, it should be placed in a lead-sealable box.

references

Reference	Designation	Gas
BA060100	VSP 14 mm inlet, 12 mm outlet	O ₂
BA060200	VSP 14 mm inlet, 12 mm outlet	Air
BA060300	VSP 14 mm inlet, 12 mm outlet	N ₂ O
BA060400	VSP 14 mm inlet, 12 mm outlet	CO ₂
BA060500	VSP 14 mm inlet, 12 mm outlet	N ₂



Safety instructions



OXYGEN label

accessories

Reference	Designation	Gaz
YL003200	Safety Instructions notice for HP Supply System (F & GB)	Air, N ₂ and O ₂
YL003000	Safety Instructions notice for HP Supply System (F & GB)	N ₂ O
YF010100	"Oxygène" label (F)	O ₂
YF010500	"Protoxyde d'azote" label (F)	N ₂ O
YF010600	CO ₂ label	CO ₂
YF010300	Air label (F & GB)	Air
YF016000	Oxygen label (GB)	O ₂
YF016100	Nitrous oxide label (GB)	N ₂ O
AF003000	Analogic pressure sensor 0-16 bar / M10 x 100 / 4-20 mA	
AF013000	Analogic pressure sensor 0-16 bar / M10 x 100 / 4-20 mA (x 6)	
CX090500	Adapter 1/4" gas male / M10 x 100 female (x 5)	