

ISO 9001:2015



INDOFAB

Approved by PESO Nagpur
ISI Marked & Certified by BIS

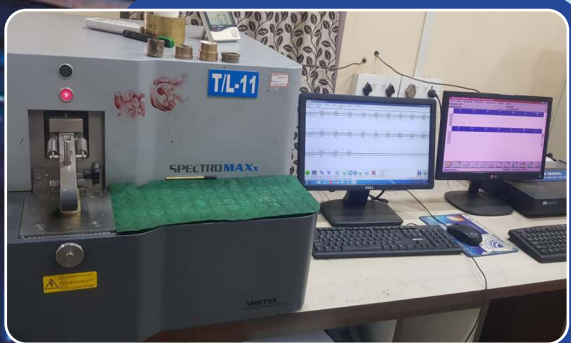
A photograph of a large industrial facility, likely a gas processing plant, at night. The facility is illuminated by blue and white lights, showing complex piping, storage tanks, and structural steel. The sky is dark.

**Manufacturers of
High Pressure Cylinder Valves for Industrial Cylinders,
Medical Cylinders, Fire Fighting Equipments and LPG Cylinders**



HIGH PRESSURE GAS CYLINDER VALVES FOR
OXYGEN, CARBON DIOXIDE, HYDROGEN, NITROGEN
ACETYLENE, ARGON, CHLORINE, CNG AND OTHERS

INDOFAB



INDOFAB is a Leading ISO 9001:2015 Certified Company with quality Management System Certified by BUREAU OF INDIAN STANDARDS with a Capacity to Produce 5 lac Valves per annum.

Customers include Leading Gas Cylinder Manufacturers, Gas Manufacturing Plants, Chemical Plants, Fire Fighting and Life Saving Equipment Manufacturers.



Indofab is one of the leading Manufacturers of Industrial gas cylinder valves in India. Our Valued Customers and the dynamic market determine our philosophy and action. We are continuously engaged in seeking better ways and process automation to develop and improve in the range of cylinder valves. The manufacturing plant is well equipped with the state of the art facilities including diverse range of CNC precision machining center, hot stamping and automatic machining center for achieving high degree of repeat accuracy.



Indofab Testing facilities are equipped to carry out stringent tests and developmental work, Our highly skilled and dedicated technical staff has built up years of expertise to help our customers find the right solution for their needs. Our sophisticated in house facilities, manufacture tools, dies and punches to the utmost quality and perfection. We also undertake the manufacturers fo special types of valves as per customer drawings and designs for special applications.

OXYGEN VALVE (KEY OPERATED) - O₂



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI and 1.1/4" Nominal 11 TPI
Outlet Threads	: G 5/8" RH Internal Thread
Outlet No.	: 3
Body Material	: Special High Tensile Brass
Spindle	: SS 304 with 7.1 mm Square Key
Type of operation	: Key Type
Working Pressure	: 200 Kg/Cm2
Test Pressure	: 300 Kg/Cm2
Gland Packing	: Teflon
Finish	: Shot Blasted

TWIN SPINDLE OXYGEN SOFT SEATED VALVE (KEY OPERATED) - O₂



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI and 1.1/4" Nominal 11 TPI
Outlet Threads	: G 5/8" RH Internal Thraead
Outlet No.	: 3
Body Material	: Special High Tensile Brass
Type of operation	: Key Type
Spindle	: Top Spindle : SS 304 Bottom Spindle: Brass BS:249
Working Pressure	: 200 Kg/cm2
Test Pressure	: 300 Kg/Cm2
Finish	: Shot Blasted

MEDICAL OXYGEN VALVE (KEY OPERATED) - O₂



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: G 5/8" RH Internal Thread
Outlet No.	: 3
Body Material	: Special High Tensile Brass
Spindle	: SS 304 with 7.1 mm Square Key
Type of operation	: Key Type
Working Pressure	: 200 Kg/Cm2
Test Pressure	: 300 Kg/Cm2
Gland Packing	: Teflon
Finish	: Nickel Chrome Plated

HYDROGEN VALVE (KEY OPERATED) - H_2



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: G 5/8" LH Internal Thread
Outlet No.	: 2
Body Material	: Special High Tensile Brass
Spindle	: SS 304 with 7.1 mm Square Key
Type of operation	: Key Type
Working Pressure	: 200 Kg/Cm2
Test Pressure	: 300 Kg/Cm2
Gland Packing	: Teflon
Finish	: Shot Blasted

NITROGEN VALVE (KEY OPERATED) - N_2



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: G 3/4" RH External Thread
Outlet No.	: 20
Body Material	: Special High Tensile Brass
Spindle	: SS 304 with 7.1 mm Square Key
Type of operation	: Key Type
Working Pressure	: 200 Kg/Cm2
Test Pressure	: 300 Kg/Cm2
Gland Packing	: Teflon
Finish	: Shot Blasted

ARGON VALVE (KEY OPERATED) - Ar



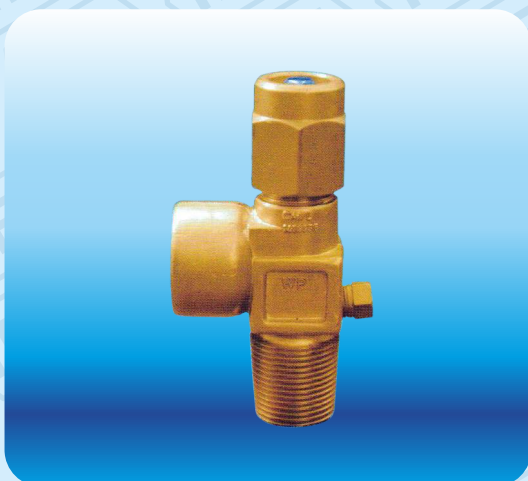
Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: G 3/4" RH External Thread
Outlet No.	: 20
Body Material	: Special High Tensile Brass
Spindle	: SS 304 with 7.1 mm Square Key
Type of operation	: Key Type
Working Pressure	: 200 Kg/Cm2
Test Pressure	: 300 Kg/Cm2
Gland Packing	: Teflon
Finish	: Shot Blasted

ACETYLENE VALVE (KEY OPERATED) - C_2H_2



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: G 5/8" LH Internal Thread
Outlet No.	: 2
Body Material	: Special High Tensile Brass
Spindle	: SS 304 with 7.1 mm Square Key
Type of operation	: Key Type
Working Pressure	: 75 Kg/Cm2
Test Pressure	: 115 Kg/Cm2
Gland Packing	: Teflon
Finish	: Shot Blasted

ACETYLENE VALVE WITH FUSIBLE PLUG (KEY OPERATED) - C_2H_2



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: G 5/8" LH Internal Thread
Outlet No	: 2
Body Material	: Special High Tensile Brass
Spindle	: SS 304 with 7.1 mm Square Key
Type of operation	: Key Type
Working Pressure	: 60 Kg/Cm2
Test Pressure	: 90 Kg/Cm2
Fusible Plug Alloy	: Tin, Bismuth & Lead
Defusing Temperature	: 100 + 4°C - 2°C
Gland Packing	: Teflon
Finish	: Shot Blasted

SULPHUR HEXA FLUORIDE VALVE (WHEEL OPERATED) - SF_6



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: G 5/8" RH External Thread
Outlet No	: 5
Body Material	: Special High Tensile Brass
Spindle	: Top Spindle :Brass BS:249 Bottom Spindle: Brass BS:249
Type of operation	: Wheel Operated
Working Pressure	: 166 Kg/Cm2
Test Pressure	: 250 Kg/Cm2
Finish	: Shot Blasted

CHLORINE VALVE (KEY OPERATED) - Cl_2



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: G 5/8" RH External Thread
Outlet No	: 5
Body Material	: Aluminium Silicon Bronze
Spindle	: Monel Metal with 9.5 Square
Type of operation	: Key Type
Working Pressure	: 30 Kg/Cm2
Test Pressure	: 45Kg/Cm2
Finish	: Shot Blasted

CARBON DIOXIDE VALVE (KEY OPERATED) - CO_2



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI & 1.1/4" Nominal 11 TPI
Outlet Threads	: EXT W 21.8mm X 1.814mm External
Outlet No.	: 7
Body Material	: Special High Tensile Brass
Single Spindle	: SS 304 with 9.50 mm Square Key
Type of operation	: Key Operated
Working Pressure	: 155 Kg/Cm2
Test Pressure	: 240 Kg/Cm2
Safety Burst At	: 200-220 Kg/Cm2
Finish	: Shot Blasted

CARBON DI OXIDE VALVE (WHEEL OPERATED) - CO_2



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: EXT W 21.8mm X 1.814mm External
Outlet No.	: 7
Body Material	: Special High Tensile Brass
Twin Spindle	: Upper Spindle: Brass BS:249 Lower Spindle: Brass BS:249
Type of operation	: Wheel Operated
Working Pressure	: 155 Kg/Cm2
Test Pressure	: 240 Kg/Cm2
Safety Burst At	: 200-220 Kg/Cm2
Finish	: Shot Blasted

CARBON DI OXIDE VALVE (SQUEE GRIP) - CO₂



Complies to	: IS:3224:2002 & PESO Approved
Inlet Threads	: 1" Nominal 14 TPI
Outlet Threads	: EXT W 21.8mm X 1.814mm External
Outlet No.	: 7
Body Material	: Special High Tensile Brass
Spindle	: Brass BS:249
Type of operation	: Lever Operated
Working Pressure	: 155 Kg/Cm2
Test Pressure	: 240 Kg/Cm2
Safety Burst At	: 200-220 Kg/Cm2
Finish	: Shot Blasted

SELF CLOSING LPG VALVE - DIA 25.6 mm



Complies to	: IS:8737:2017
Inlet Threads	: 3/4" NGT 14 TPI
Outlet Size	: DIA 25.60 MM
Body Material	: IS:8737:2017
Spindle	: Upper Spindle: Brass IS:319 Lower Spindle: Brass IS:319
Type of operation	: Self Closing
Working Pressure	: 17 Kg/Cm2
Test Pressure	: 25.5 Kg/Cm2
Customers	: IOC/HPC/BPC
Finish	: Shot Blasted

SELF CLOSING LPG VALVE - DIA 22.0 mm



Complies to	: IS:8737:2017
Inlet Threads	: 3/4" NGT 14 TPI
Outlet Size	: DIA 22.0 mm
Body Material	: IS:8737:2017
Spindle	: Upper Spindle: Brass IS:319 Lower Spindle: Brass IS:319
Type of operation	: Self Closing
Working Pressure	: 17 Kg/Cm2
Test Pressure	: 25.5 Kg/Cm2
Customers	: Parallel/ Private Market
Finish	: Shot Blasted

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FEATURES



- INDOFAB VALVES conform to IS 3224 with ISI Certification Mark and Manufactured under BIS Licence.
- Approved by Petroleum & Explosive Safety Organisation (PESO), Nagpur.
- Inlet and Outlet threads are as per the BIS specification and internal design suitable for inter changeable components.
- All the valves are tested as per required working pressure to ensure safe operation.
- The machining is done with close tolerance and high degree of repeat accuracy.
- Valves are also available in all the size of threads to suit international standards.



- The operation of the valve is made smooth and efficient.
- The raw material is tested at our end for chemical composition and physical properties before manufacturing.
- Interchangeable components like SS spindle, Gland nuts, Teflon washer, Brass washers and Rubber washer available in ready stock.
- Low temperature and high temperature test equipment, Cyclic testing, Activation test, Endurance test setup, Valve impact test set up, Torque test bench and Pneumatic high pressure leak test bench are available to 100% quality products.



- LPG valves manufactured as per IS 8737 of BIS standard.
- Self closing valve with outlet of 25.6mm as per Oil company requirement.
- 100% inspection of dimensions, assembly process and Pneumatic leak test of open and close position of spindle at 17 Kg/cm².
- Self closing valve with outlet of 22.0 mm as per IS 8737 for Parallel marketers also manufactured with 100% quality meeting all the tests.
- In house testing laboratory for carrying out material testing, rubber testing, and other required tests have been established with latest testing equipment including spectro photometer and profile projector etc..



DIFFERENT TYPE OF SPINDLE SIZE AND DETAILS

S.No.	Part name	Material	Thread size	Square size
1	CO ₂ SS Spindle	SS 304	M16X1.5	9.5 MM
2	Chlorine Spindle	SS 316L/ MONAL	5/8" Acme Ext.	9.5 MM
3.	Oxygen Spindle	SS 304	3/8" BSW	7.1 MM
4.	CO ₂ -2 Piece Spindle	BS 249	M16X1.5	A/F 9.5 MM

OTHER COMPONENTS:

1. Different types of gland nuts
2. Different type of brass washer and teflon washers
3. Safety nut and Copper disc
4. Safety Fusible plug for DA cylinders
5. Hand operated wheels of Aluminium and Plastic
6. Rubber washer.

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A sincere effort has been made to present the technical details with applications of cylinder valves being manufactured by us taking into account the latest revisions. However, these are subject to changes in specification and modifications arising out of continuous development in design and manufacturing parameters. We shall welcome your valued feedback and suggestions in this regard.