

- HANDLE OR PNEUMATIC ACTUATOR
- PRESSURE PLUG FOR INSTRUMENTS
- UPPER HALF-BODY
- INLET / OUTLET PORTS
- LOWER HALF-BODY
- BAM LABEL FOR OXYGEN APPROVAL
- TECNOCRYO WARRANTY SEAL

VALVLE TCV
DN15 SERIES

PRODUCT DESCRIPTION

TCV DN15 valve is a revolutionary ON/OFF valve specifically designed for the filling gas solutions. Its main feature is the multiple configuration of the body, enabling several applications like line isolation, venting, gas distribution and vacuum retention.

The TCV DN15 valve series and its accessories are designed for a wide number of inert, explosive or toxic gases using the most reliable materials accurately selected and checked on receipt.

The special desing and the materials employed provide a very long life service in every condition, providing high safety and operability for the user.

MAIN FEATURES

Performance data

Compatible fluids	Nitrogen, Oxigen, Argon, Carbon dioxide, Dinitrogen oxide, Helium, Hydrogen, Methane and others.
Maximum pressure	up to 420 barg
Temperature range	-40°C/+100°C
Nominal size	DN15
Number of inlets/outles	4 to 6 (depending on the configuration)
Pressure drop (Kv)	5.12 to 7.62 m3/h (according to EN1267)
Vacuum performance	better than 10-4 bar (Helium tested)
Weight	9.5 kg (manual valve), 12.1 kg (automatic valve)
General dimensions	78mm x 78mm x h280mm (manual), h320mm (automatic)
Category PED	according to Art. 3 §3
ATEX information	Group II, Category 2G, for Zone 1

Certification and testing

- Pneumatic test according to EN 12266 P11, P12 and F20.
- Cleaned and degreased for oxygen compatibility to EN12300
- Assessment to E.U. Directives:
 - 2014/68/EU PED
 - 2014/34/EU ATEX
- Adiabatic compression test by BAM and CTE Airlíquide.
- Design and manufacture based on EIGA and ASTM reccomendations.

TECNOCRYO DESIGN

Features

The composition of the body made of two rotating halves provides the maximum flexibility in the filling module, allowing the user to select the best flow direction in every configuration.

The heavy body made of brass is designed to dissipate heat formation during adiabatic compression, protecting the few other components made of soft materials by oxygen ignition.

The valves and their accessories are accurately designed to work together and to complete the TCV DN15 series providing an unique solution to create performant filling modules.

Both the manual and the automatic valves are pressure balanced stem type with the aim of open and close with zero force even under 420 bar pressure.

Tolerances and material treatments provide a long life service; over 20000 cycles of openings.

Options and accessories

The TCV DN15 series includes dozens of options and accessories which can help finding the right solution for the filling module. Tecnocryo Service is pleased to help you meeting your needs. Below an overview of the main components of the series.

- TCV DN15 isolating valve, manually or automatically actuated, body configured in N type, L type or T type and with PEEK or VESPEL seal.
- TCV DN15 check valve with PEEK seat, 0.1 bar of cracking pressure.
- TCV DN15 filter with a 30 micron braid, completely made of brass and copper, separately approved for adiabatic compression by BAM body.
- Set of user interface connections in stainless steel or brass material, butt weld, socket weld, threaded or compression type.
- Set of instrument interface connections for pressure elements, temperature probes, limit switches and pneumatic air.

TECNOCRYO QUALITY SYSTEM

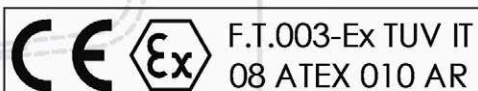
TECNOCRYO relies on a High Quality System which completely merges with the Engineering and Manufacturing facilities, pursuing a strategy of continuous improvement within a moving market of high technology. Attention has been posed to the Standards and the relevant product certifications, specially for the European Directives.

HYTC is a dedicated line for HYdrocarbon fluids, specifically designed for LNG or LCNG applications in the refuelling stations for automotive field. The design and the use of reliable materials makes the difference.



BAM Certified and under surveillance
Certification-No: BAMZBA/004/08

The BAM Certificate refers only to the burn-out safety of the materials in oxygen service.



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