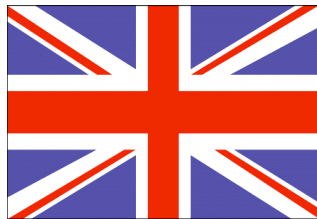
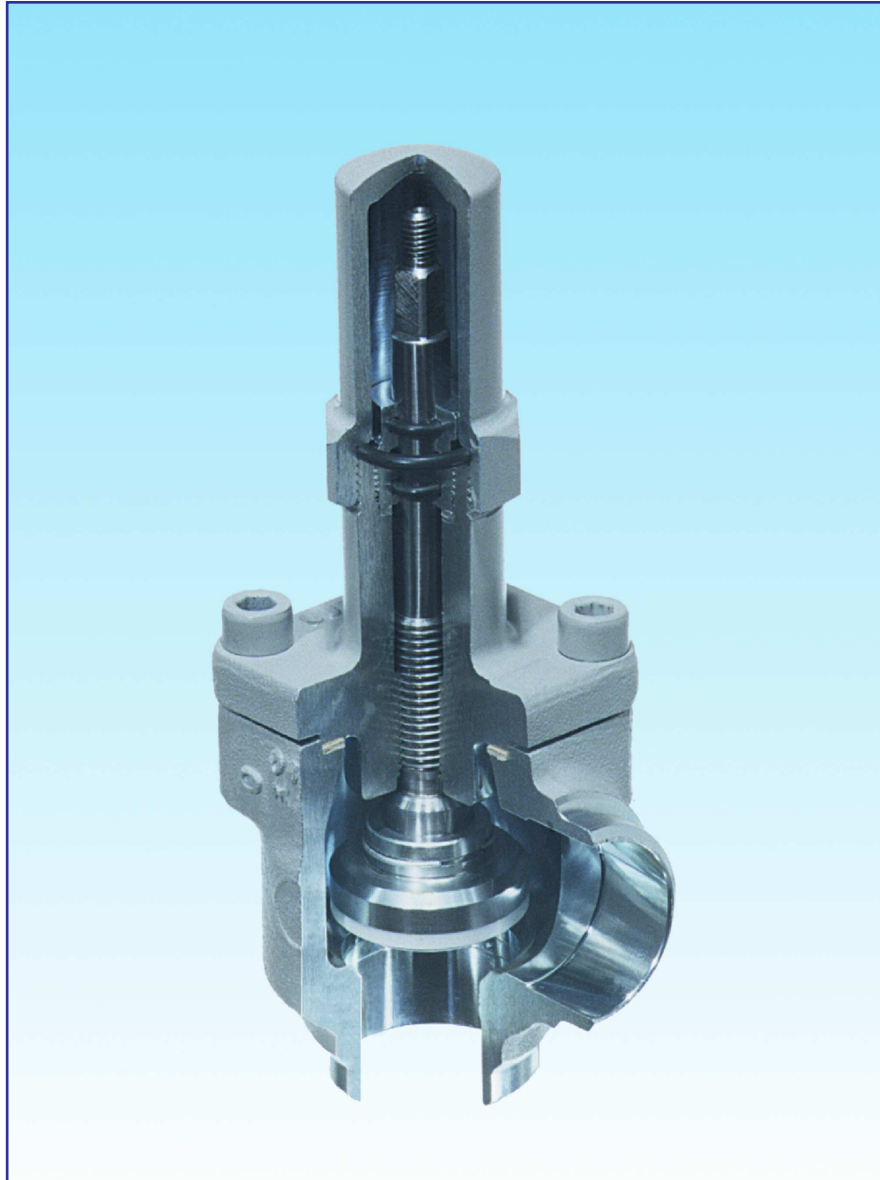




Le Robinet Frigorifique Français

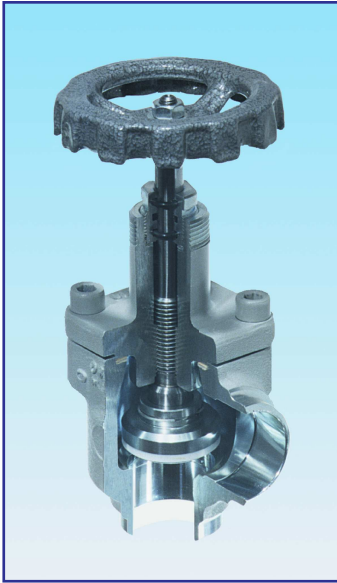


**STEEL and STAINLESS STEEL
REFRIGERATION VALVES
for NH₃ and OTHER GASES**

**Special approval can be issued on request by T.Ü.V,
Lloyd's Register of Shipping, ISPEL, Bureau Veritas
and Det Norske Veritas**



VALVES DN 10 up to DN 450



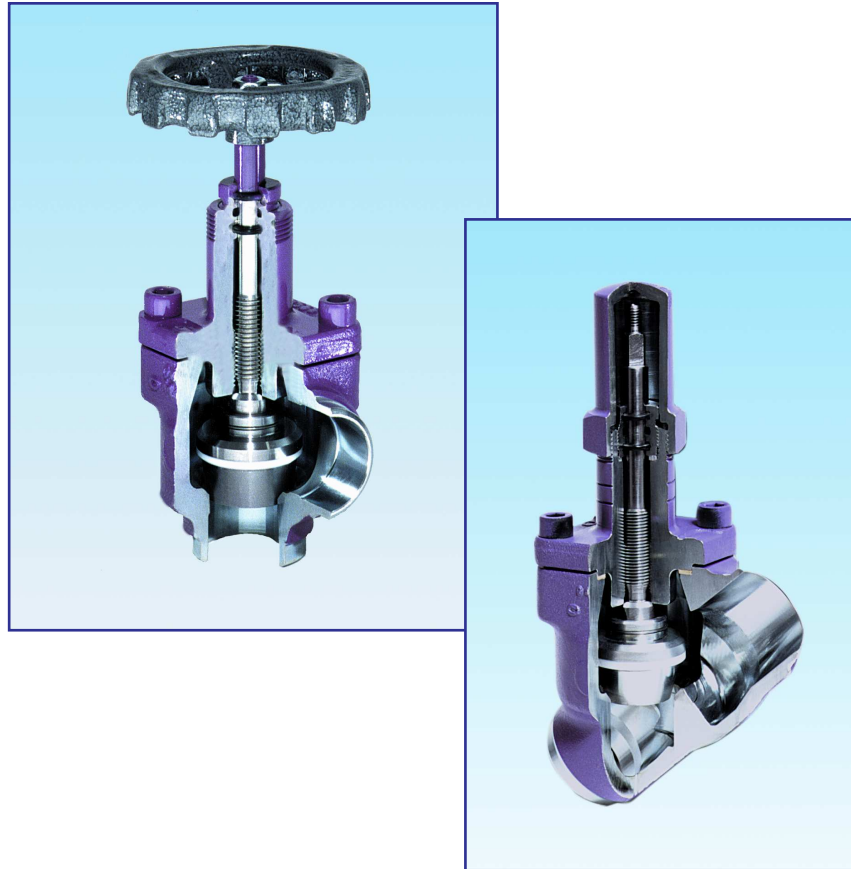
SPECIFICATION

- **Steel** range (DN 10 to DN 450) or **Stainless steel** range (DN 10 to DN 25)
- **PN 25** in standard or **PN 65 / PN 40** optional depending on diameter.
- Temperature : -50°C up to +150°C
- Design **Straight** or **Angle**
- With **Handwheel** or **capped**.
- **Back seating design** for access to spindle 'O' rings
- Long life **PTFE** seat provides positive shut off with a minimum of hand pressure.
- **Connections** – wide range of alternative pipework connections available
 - **Carbon steel range**
 - Welding class **S** (ASTM standard)
 - Welding class **M** (DIN 2448)
 - Brazing class **B**
 - Socket welding class **K** (fillet weld instead of full penetration butt weld)
 - Welding class **H** (thickness 2mm for stainless steel pipe)
 - **Stainless steel range**
 - Welding class **H** (thickness 2mm for stainless steel pipe)
- For additional general and technical documentation, please contact sales office address on back of leaflet



HAND REGULATING VALVE

DN 10 up to DN 40

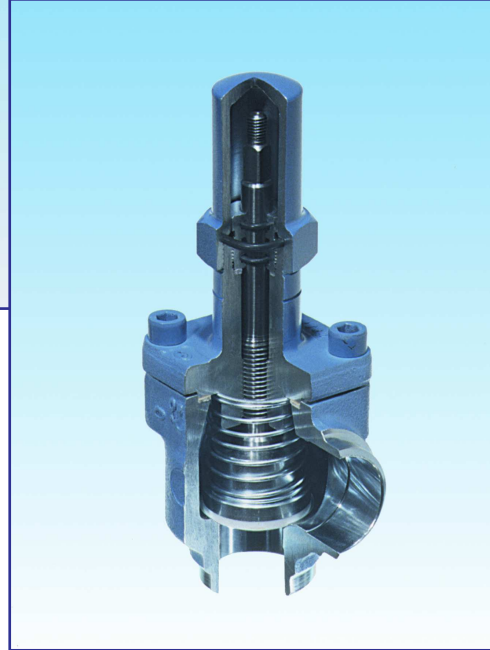
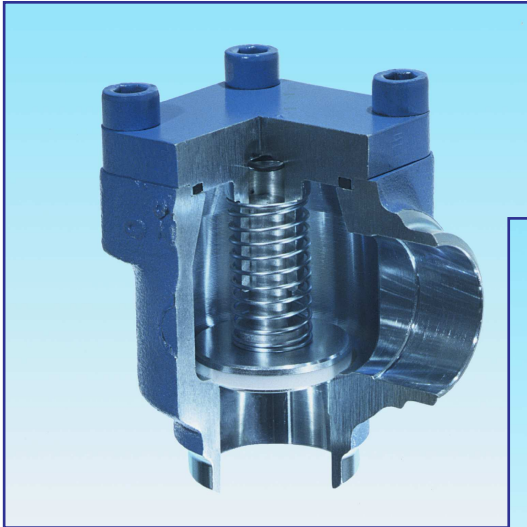


SPECIFICATION :

- **Steel** range (DN 10 to DN 40) or **Stainless steel** range (DN 10 to DN 25)
- **PN 25** in standard or **PN 65** optional
- Temperature : -50°C up to +150°C
- Design **straight** (for all DN) or **Angle** (DN 15,25 and 40)
- Long life **PTFE** on steel
- **Several seat size options** available
- **Connections** – wide range of alternative pipework connections available
 - **Carbon steel range**
 - Welding class **S** (ASTM standard)
 - Welding class **M** (DIN 2448)
 - Brazing class **B**
 - Socket welding class **K** (fillet weld instead of full penetration butt weld)
 - Welding class **H** (thickness 2mm for stainless steel pipe)
 - **Stainless steel range**
 - Welding class **H** (thickness 2mm for stainless steel pipe)
- For additional general and technical documentation, please contact sales office address on back of leaflet



CHECK VALVE STOP CHECK VALVE



SPECIFICATION

- **Steel** or **Stainless steel** range (up to DN 25)
- **PN 25** in standard or **PN 65 / PN 40** optional depending on diameter.
- Temperature : -50°C up to +150°C
- Design **straight** or **angle**

CHECK VALVE for suction, liquid or discharge line. Sealing by **PTFE** (DN 10 up to 40 and DN 125 up to 250) or by '**O**' ring (DN 50 up to DN 100)

- o Range available from **DN 10** up to **DN 250**

STOP/CHECK VALVE can operate at the same time as both stop valve and check valve. When open, acts as check valve, also possible to close fully to act as a stop valve.

- o Range available from **DN 20** up to **DN 250**
- o With **handwheel** or **capped**

- **Connections** – wide range of alternative pipework connections available

- **Carbon steel range**

- o Welding class **S** (ASTM standard)
- o Welding class **M** (DIN 2448)
- o Brazing class **B**
- o Socket welding class **K** (fillet weld instead of full penetration butt weld)
- o Welding class **H** (thickness 2mm for stainless steel pipe)

- **Stainless steel range**

- o Welding class **H** (thickness 2mm for stainless steel pipe)

- For additional general and technical documentation, please contact sales office address on back of leaflet



FILTER DN 10 up to DN 350



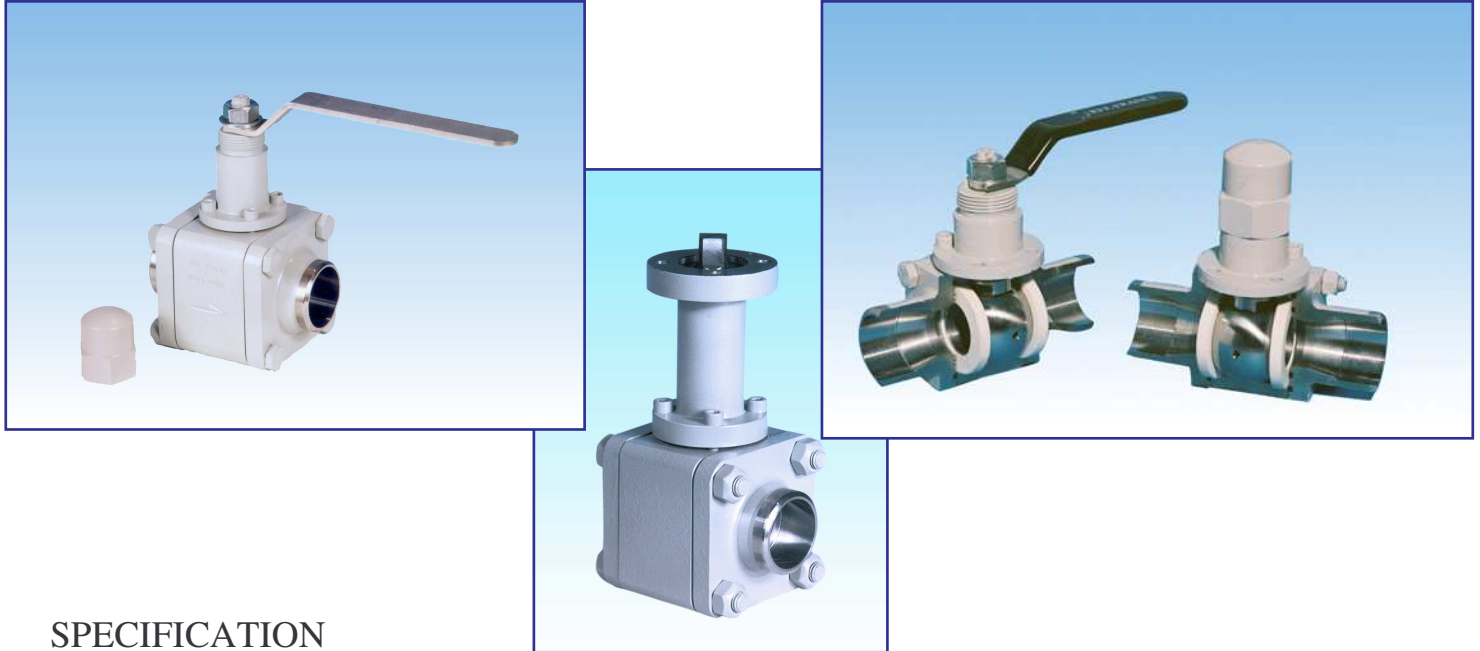
SPECIFICATION

- **Carbon steel** range (DN 10 to DN 350) or **stainless steel** range (up to DN 25)
- **PN 25** in standard or **PN 65 / PN 40** optional depending on diameter.
- Temperature : -50°C up to +150°C
- Design **straight** or **angle**
- **Stainless steel mesh cartridge** with several size of screen aperture:
 - 0.10mm (type FW), 0.15mm (type FY), 0.25mm (type FR) or 0.5 mm (type FA).
- **Disposable filter socks** available for fitting inside the cartridge during the commissioning period to obtain fine filtration.
- **Connections** – wide range of alternative pipework connections available
 - **Carbon steel range**
 - Welding class **S** (ASTM standard)
 - Welding class **M** (DIN 2448)
 - Brazing class **B**
 - Socket welding class **K** (fillet weld instead of full penetration butt weld)
 - Welding class **H** (thickness 2mm for stainless steel pipe)
 - **Stainless steel range**
 - Welding class **H** (thickness 2mm for stainless steel pipe)
- For additional general and technical documentation, please contact sales office address on back of leaflet



BALL VALVE

FULL BORE FLOW or REDUCED BORE FLOW



SPECIFICATION

- **Steel** or **stainless steel** range – **PN 25** in standard or **PN 65/ PN 40** optional depending on diameter.
- Temperature : -50°C up to +150°C
- **Full bore flow** with low pressure drop (DN 10 to DN 80), or **reduced bore flow** for lower cost. (DN 20 to DN 100)
- **Easy to insulate** with the extended height of the valve bonnet
- The ball valve incorporates a **specific sealing design for back seating**, to enable the removal and service of the spindle 'O' rings.
- Disassembling is possible for easy maintenance. The **three pieces body** allow for dismantling with only 1mm movement of pipe flange.
- **Manual** or **actuated** operation: For frequent opening, the ball valve can be operated by a hand lever. The ball valve can be fitted with a sealing cap for supplementary tightness. An ISO flange mounting is available for fitting a quarter turn actuator.
- **Connections** – wide range of alternative pipework connections available
 - **Carbon steel range**
 - Welding class **S** (ASTM standard)
 - Welding class **M** (DIN 2448)
 - Brazing class **B**
 - Welding class **H** (thickness 2mm for stainless steel pipe)
 - **Stainless steel range**
 - Welding class **H** (thickness 2mm for stainless steel pipe)
- For additional general and technical documentation, please contact sales office address on back of leaflet



ACTUATED BALL VALVE

BALL VALVE with PNEUMATIC ACTUATOR

The ball valve actuator can also be installed in normal open or closed position. This is possible by the power being switched on to open the valve and off to close the valve. The actuated ball valve in the event of electrical failure is designed for fail safe operation by automatically closing the pneumatic actuator.

PNEUMATIC ACTUATOR SPECIFICATION :

- Temperature : -20°C up to +85°C
- **Spring return**
- Pilot valve : **dry air** or **neutral gas** operating fluid with dew point below minimum operating temperature
- Operating air pressure range 6 up to 8 bar
- Pilot valve 220 V AC, 24 V AC or 24 V DC
- The optional limit switch gives an electrical indication of the ball valve open or closed position.
- Pilot valve and optional limit switch are **IP 65**. As an option, it is also possible to supply them **explosion proof**.



BALL VALVE with ELECTRIC ACTUATOR

An optional **fail safe** security casing is available containing a safety circuit with a back up battery, for the closing of the actuator in the even of a power supply failure.

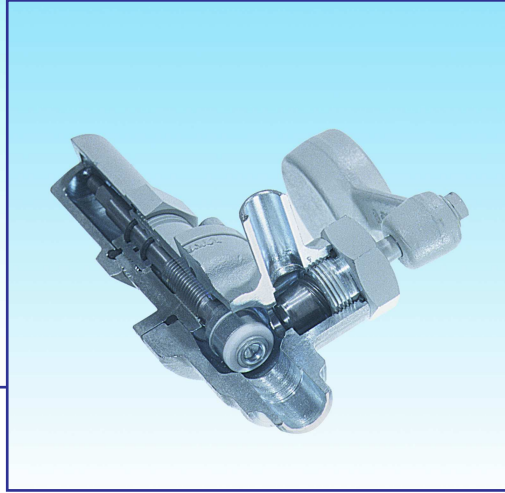
ELECTRIC ACTUATOR SPECIFICATION :

- Temperature : -10°C up to + 55°C
- Voltage 220 VAC 50 Hz
- Enclosure **IP 65**
- Optional fail safe security relay





SMALL VALVES



VALVES DN 4 to DN 8

- **Steel** or **stainless steel** range
- **Handwheel** or **cap**
- **PN 25** or **PN 65** optional
- Alternative **connections** :
 - o for welding,
 - o for screwing,
 - o with nipple ends,
 - o blank nut,
 - o or following customer requirements,

Several possibilities on request.

PURGE VALVE WITH COUNTERWEIGHT

- **DN 8** or **DN 15**
- Available with outlet ½ BSP + blank nut.
- In normal operation the oil drain valve is isolated by closing the inlet shut-off valve. For oil purging the shut-off valve is opened with the counterweight in closed position. Purging is then possible by turning the counterweight.

The oil draining operation can be snap closed by turning the counterweight to the closed position.

For additional general and technical documentation, please contact sales office address on back of leaflet