

Safe and flexible – Our solution for **your application**

Do you have particularly high tightness requirements?

By using a body made of solid material, the required high tightness for vacuum insulated systems is ensured. The additional bellow option supports this and increases the tightness to atmosphere.

Do you want to protect your system from damage caused by media backflow?

When equipping the FullX with a check function, your liquids and gases can only flow in one direction. The backflow is prevented and therefore your system is protected from damage.

Do you want to control the flow rate?

By using the control function of the FullX, you can adjust the flow of fluids and gases to the required system conditions.

Do you want to be flexible?

Switching between manual and actuated operation only requires the changing of the topwork. The functional discs are interchangeable due to your needs.

Do you want to avoid pressure peaks?

The throttle function of the FullX prevents pressure peaks in your system during the opening and closing of the valve.

Do you want to maintain your FullX without losing vacuum?

The top entry design enables the inner parts, including the stem and disc, to be removed without having to open the insulation. This not only saves you time during maintenance, but also reduces the costs.

Do you want to reduce media loss?

Ideal combination of materials for the components ensures a low heat input. This reduces media loss during cooling processes.

Do you want to easily install the valve?

The vacuum insulation allows for easy installation of the valve into the piping system. The excellent thermal insulation, including the insulating foil (MLI), guarantees minimal heat loss.



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Globe Valve **FullX** Typ 11C01



READY FOR HYDROGEN & HELIUM VACUUM INSULATED SYSTEMS

Tanks

The FullX with body made of cast and solid material, is designed with and without bellows so that it is ideally suited for both applications in pressurised vessels.

The manual valves are designed for daily filling operations. Actuated valves offer flow control for both liquid and gaseous media, such as hydrogen, and other project requirements.



Bodies made of solid or cast material?

HEROSE offers two body variants for the FullX. Choose the right variant for your application.

| Cast material | | Solid material |
|--|----------------------------|---|
| down to -255 °C/ incl. LH2 | Working temperature | down to -269 °C incl. LHe |
| to vacuum: 1*10 ⁻⁹ mbar*I/s | Tightness | to vacuum: 1*10 ⁻⁹ mbar*I/s |
| straight body up to PN50 | Body types | straight, angle and Y-type body up to PN63 |
| stationary and mobile pressure vessels | Application areas | stationary and mobile pressure vessels as well as for process applications such as liquefac- tion plants, space refuelling systems, process plants and smaller cryostats |

Process plants

The HEROSE product variety of FullX bodies made of solid material, with or without bellows, manually operated or actuated fulfil the high pressure and control requirements of demanding gaseous and liquid hydrogen process applications.

This valve package is suitable for liquefaction plants, space refuelling systems, process plants, smaller cryostat applications and many more.

The FullX with its control options is designed for most process applications and your future developments, including liquid helium.



Technical Details

| | |
|----------------------------|--|
| Sizes | DN10–DN50 |
| Pressure | up to PN63 |
| Working temperature | -269 °C up to +80 °C |
| Tightness | seat tightness: 1*10 ⁻⁶ mbar*I/s to atmosphere: 1*10 ⁻⁹ mbar*I/s |
| Connections | welded ends |
| Material | stainless steel |
| Approved media | hydrogen, air gases, steam and cryogenic liquefied gases incl. LNG, helium and hydrogen |
| Versions | manual, pneumatic actuation and check valve |
| Body types | straight, angle or Y-type body |
| Options | bellows (w or w/o monitoring), check, control and throttle function, purge port |

Trailers

The FullX in casted body design, equipped with or without bellows is the perfect choice in vessels and trailer applications. Piston actuators are available with on-off or with control valve function. The actuator mounting and support bracketing provides a solid mounting that ensures a long operating life in demanding vibrating trailer applications.



Two valves, one strong team

In combination with our FullX globe valve, our check valve in top entry design is the optimal choice when it comes to safety and quality for your application.

| | |
|----------------------------|----------------------|
| Size | DN25 |
| Pressure | up to PN63 |
| Working temperature | -269 °C up to +80 °C |

