

ARD-GL-010

Liquid-hydrogen globe valve



A manually operated globe-valve reference designed for liquid-hydrogen service down to -253°C. The 316L construction uses an extended upper assembly and a specified polymer sealing system.

The DN15-100 project range and illustrated manual arrangement require size-specific confirmation. These are not verified availability or approved operating limits for every configuration. Confirm the selected pressure-temperature rating and connection details.

Product illustration. Appearance and dimensions depend on the selected configuration.

Selection	Specification
Size range	DN 15-100 · project range
Pressure ratings	PN40 (4.0 MPa nominal)
Temperature	-253 to +80°C
Connections	Threaded / weld ends
Medium	LH2 / liquid hydrogen

Define your requirement

Specify medium, design pressure and temperature, nominal size, connection standard, operation, quantity and required inspection documentation.

Project selection

Topic	Selection requirement
Liquid-hydrogen qualification	Confirm the selected materials, seal grade, cleanliness, leak-test method, acceptance limits and traceability.
Size and connections	Request the size-specific outline drawing and end-connection schedule before installation.

View this product and request a quotation

This catalogue datasheet supports selection and enquiry. It is not a certified pressure-temperature curve, installation drawing or order-specific approval.

Technical specification

Parameter	Specification
Operation	Manual handwheel in illustrated arrangement
Design service	Liquid hydrogen
Size evidence	Manufactured globe-valve project references cover DN15-100; exact illustrated configuration requires confirmation

End connections

Illustrated arrangement: a blue manual handwheel, a long white-coated extension and a compact lower body with two opposed metallic end stubs

Connection detail	Selection requirement
Connection options	Threaded / weld ends
Interface selection	Specify the end standard, nominal size, pipe dimensions and required mating interface.
Thread selection	Threaded alternatives are documented. Confirm thread form, nominal size and sealing method.
Weld selection	Welded alternatives are documented. Confirm end preparation and mating-pipe dimensions.

Materials

Component	Material / option
Body and bonnet	316L stainless steel
Sealing material	VESPEL / MELDEN - selected grade to confirm
Spring	316 stainless steel

Configuration features

- Dedicated liquid-hydrogen temperature range
- 316L body and bonnet
- Extended manual upper assembly
- Hydrogen and low-temperature helium inspection documentation specified with the order

Selection notes

The DN15-100 project range and illustrated manual arrangement require size-specific confirmation. These are not verified availability or approved operating limits for every configuration. Confirm the selected pressure-temperature rating and connection details.

The DN15-100 span describes manufactured globe-valve project references, not a complete availability matrix for the illustrated manual arrangement.

The nominal pressure is 4.0 MPa. A separately stated body-strength value is not an allowable service-pressure rating.

Confirm pressure-temperature limits, material compatibility, oxygen cleaning, trapped-liquid relief and certification for the selected assembly. PN, ASME Class and relief set pressure are separate values.