

ARD-GL-007

Long-stem cryogenic globe valve · PN20/40 · BW



A long-stem globe valve for DN65-100 butt-weld cryogenic lines. PN20 and PN40 are catalogue options with configuration-specific weld ends and outlines.

Sizes and pressure ratings depend on construction, materials and configuration. Confirm the selected pressure-temperature rating with the quotation.

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

Selection	Specification
Size range	DN 65-100
Pressure ratings	PN20 · PN40
Temperature	-196 to +80°C · series*
Connections	Butt weld (BW)
Medium	LNG, LOX, LN2, LAr, CO2

Define your requirement

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

[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
Size range	DN 65-100
Pressure ratings	PN20 · PN40
Connection	Butt Weld
Design	Long stem
Operation	Manual handwheel
series temperature*	-196°C to +80°C
Medium	LNG, LOX, LN2, LAr, CO2

End connections

Illustrated arrangement: Rounded globe body, circular bolted bonnet, extended stem and blue handwheel; butt-weld tails.

Connection detail	Selection requirement
Published connection	Butt Weld
Weld preparation	Confirm pipe outside diameter, wall thickness and bevel/preparation. The weld standard is not stated on this catalogue page.
Reference drawing scope	PN40 long-stem butt-weld arrangement, DN65-DN100. The two DN100 rows have different weld-end diameters and lengths; select the required pipe variant. PN20 requires a separate drawing.

Materials

Component	Material / option
Body	CF8
Disc	S30408

Alternative arrangement materials

Materials apply to the supplied reference arrangement. PN40 long-stem butt-weld arrangement, DN65-DN100. The two DN100 rows have different weld-end diameters and lengths; select the required pipe variant. PN20 requires a separate drawing.

Component	Material
Body	CF8
Hexagon Screw	S30408
Hexagon Nut	S30408
Disc Sealing	PCTFE
Stem	S30408

Component	Material
Connecting Nut	S30408
Disc	S30408
V Ring	PTFE
Connecting Pipe	S30408
Gasket	RPTFE
Gland Nut	S30408
Gland Packings	S30408
Bonnet	S30408
Hand Wheel	HT200

Reference dimensions

Dimensions apply to the tabulated version only. Confirm the approved outline drawing for the selected size, rating and connections before installation.

PN40 long-stem butt-weld arrangement, DN65-DN100. The two DN100 rows have different weld-end diameters and lengths; select the required pipe variant. PN20 requires a separate drawing.

Dimensions and connection reference

DN	H open	H closed	L	D	D0	D1	D2	Weight (kg)
65	520	495	216	Ø200	Ø65	Ø70	Ø76	15.4
80	549	522	241	Ø250	Ø80	Ø81	Ø89	22.8
100	634	601	292	Ø315	Ø100	Ø100	Ø108	31.8
100	634	601	275	Ø315	Ø100	Ø106.3	Ø114.3	31.8

Linear dimensions: mm; weights: kg unless stated otherwise. Thread, mounting and pressure designations are not linear dimensions. A dash means that no value is documented. Request the approved outline drawing for installation.

Engineering requirements

Topic	Requirement
Dimension data	Reference table and drawing: DN65, DN80, DN100. Dimensions and connection reference.
Installation drawing	Confirm end-to-end length, pipe outside diameter, wall thickness, weld preparation and operating/removal clearance.
Pressure-temperature rating	Obtain the allowable-pressure table or curve versus temperature for the selected body, seat and seals, including minimum and maximum design temperature. Nominal rating and a family temperature range do not define this curve.

Configuration features

- Catalogue body: CF8
- Published connections: Butt Weld

Selection notes

Sizes and pressure ratings depend on construction, materials and configuration. Confirm the selected pressure-temperature rating with the quotation.

*-196 to +80°C is the series/reference range. It does not establish the allowable pressure at each temperature or suitability of every seat, seal and actuator. Confirm the selected assembly's minimum design temperature and pressure-temperature curve.

Catalogue construction and supplied reference-arrangement materials are shown separately below the material schedule. Use the approved drawing for the quoted body, trim and connections.

PN, ASME Class and safety-valve set pressure are separate values. Confirm allowable pressure versus temperature, material compatibility, oxygen cleaning, trapped-liquid relief and required certification for the selected assembly. Liquid hydrogen and helium service require a separate assessment.