

ARD-GL-009

Long-stem cryogenic globe valve · PN40 · SW



A CF8 long-stem globe valve for DN10-50 socket-weld installations. Published reference tables distinguish alternative socket bores for the selected pipe.

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 10-50
Pressure ratings	PN40
Temperature	-196 to +80°C · series*
Connections	Socket weld (SW)
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 10-50
Pressure ratings	PN40
Connection	Socket Weld
Design	Long stem
Operation	Manual handwheel
series temperature*	-196°C to +80°C
Medium	LNG, LOX, LN2, LAr, CO2

End connections

Illustrated arrangement: Inline socket-weld body, square bolted bonnet, long straight extension and blue handwheel.

Connection detail	Selection requirement
Published connection	Socket Weld
Socket interface	Confirm pipe outside diameter, socket bore, depth and wall thickness for the chosen size. SW is not a threaded or butt-weld interface.
Reference drawing scope	PN40 long-stem socket-weld arrangement, DN10-DN50. Separate rows for each DN show alternative socket bores and, where stated, heights or weights. Select the socket bore to match the pipe.

Materials

Component	Material / option
Body	CF8
Disc	S30408

Alternative arrangement materials

Materials apply to the supplied reference arrangement. PN40 long-stem socket-weld arrangement, DN10-DN50. Separate rows for each DN show alternative socket bores and, where stated, heights or weights. Select the socket bore to match the pipe.

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	Y102

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 socket-weld arrangement, DN10-DN50. Separate rows for each DN show alternative socket bores and, where stated, heights or weights. Select the socket bore to match the pipe.

Dimensions and connection reference

DN	H open	H closed	L	D	D0	D1	D2	B	Weight (kg)
10	210	204	60	Ø65	Ø13	Ø14.5	Ø24	6	0.9
10	221	215	60	Ø65	Ø15	Ø17.8	Ø24	6	1.0
15	253	244	65	Ø80	Ø15	Ø18.5	Ø29.5	6	1.1
15	257	248	65	Ø80	Ø15	Ø22.7	Ø29.5	6	1.0
20	257	246	80	Ø80	Ø20	Ø25.5	Ø36	8	1.5
20	263	254	80	Ø80	Ø20	Ø27.7	Ø36	8	1.5
25	288	274.5	90	Ø100	Ø25	Ø32.5	Ø43.5	8	2.1
25	295	282	90	Ø100	Ø25	Ø34.5	Ø43.5	8	2.1
32	298	283.5	105	Ø100	Ø32	Ø38.5	Ø53	8	2.8
32	305.5	291	105	Ø100	Ø32	Ø43.2	Ø53	8	2.8
40	365.5	348	120	Ø125	Ø40	Ø45.5	Ø62	8	4.0
40	373.5	356	120	Ø125	Ø40	Ø49	Ø62	8	3.9
50	374.5	353.5	140	Ø140	Ø50	Ø57.5	Ø72	10	5.2
50	384.5	361.5	140	Ø140	Ø50	Ø61.1	Ø72	10	5.2

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: DN10, DN15, DN20, DN25, DN32, DN40, DN50. Dimensions and connection reference.
Installation drawing	Confirm end-to-end length, socket bore/depth, pipe size and wall thickness, overall height 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: Socket 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.