CRYOGENIC VALVES

CRYOGENIC LIFT CHECK VALVE

Socket weld

Cryogenic lift check valve with a CF8 body and socket-weld ends for low-temperature non-return service.



Product illustration. End connections follow the selected configuration.

TECHNICAL SPECIFICATIONS

Specification	Catalogue data
Size range	DN65-DN100
Connection	Socket Weld
Nominal rating	PN40
Operation	Automatic non-return
Source temperature*	-196°C to +80°C
Catalogue media	LNG, LOX, LN2, LAr

MATERIALS

Component	Catalogue material
Body	CF8
Disc	S30408

Catalogue options. Nominal ratings are not the allowable pressure at every temperature; confirm the selected configuration. *Documented family temperature range; confirm pressure-temperature limits and the selected trim.

DIMENSIONS & P/T

Dimension table and drawing on page 2; reference construction materials on page 3. DN65, DN80, DN100. Confirm the specified reference arrangement.

P/T rating: confirm allowable pressure versus temperature for the selected body, seat and seals. Nominal class and temperature range do not define a P/T curve.

CONFIGURATION & SERVICE REQUIREMENTS

Include the normal flow, differential pressure and installation orientation. Confirm opening/cracking pressure and the permitted flow direction for the selected valve.

Obtain the connection drawing and trim details for the selected size. Welded and threaded valve drawings cannot be substituted for each other.

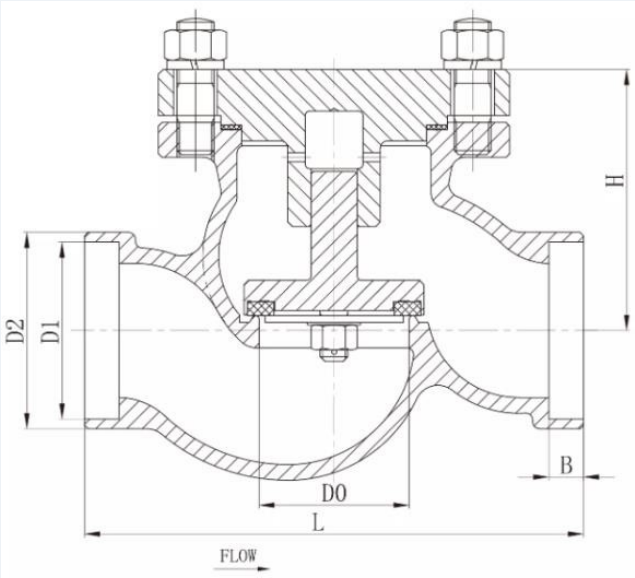
PRODUCT INFORMATION & QUOTATIONS

nordicvalves.com/products/check-valves/cryogenic-lift-check-valve-socket-weld

REFERENCE DRAWING & DIMENSIONS

Cryogenic Lift Check Valve - Socket weld

PN50 socket-weld body reference. The current product offers PN40; confirm the PN40 body drawing before using these dimensions.



DIMENSIONS AND CONNECTION REFERENCE

Linear and diameter dimensions are in mm; weights are in kg. Pressure bands are in MPa (1 MPa = 10 bar). Height and length datums follow the drawing. Thread designations and ISO mounting codes are not linear dimensions.

DN	H	L	D0	D1	D2	B	Weight (kg)
65	112	216	Ø65	Ø70	Ø76	7	10
80	118	241	Ø80	Ø81	Ø89	8	14
100	138	292	Ø100	Ø100	Ø108	9	16

Drawing reference: PN50 source body; confirm PN40

Use the approved order drawing for installation and fabrication. Reference dimensions do not establish the pressure-temperature rating of a different variant.

REFERENCE CONSTRUCTION & MATERIALS

Cryogenic Lift Check Valve - Socket weld

PN50 socket-weld body reference. The current product offers PN40; confirm the PN40 body drawing before using these dimensions.

Component	Source arrangement material
Hexagon Screw	S30408
Gasket	S30408
Hexagon Nut	S30408
Bonnet	CF8
Split Pin	S30408
Gasket	RPTFE
Disc	S30408
Body	CF8
Disc Sealing	PTFE

Reference: PN50 source body; confirm PN40

The materials above belong to the illustrated source arrangement. Catalogue options are shown on page 1. Confirm the ordered body, trim, seats and seals when a different material, pressure class or connection is selected.

Nominal pressure, temperature range and relief set pressure are separate specifications. Confirm allowable pressure at the actual design temperature and any required cleaning, testing and certification with the quotation.