

ARD-CK-006

Cryogenic swing check valve · PN40 · BSP/NPT



A compact CF8 swing check valve for threaded cryogenic pipework. BSP and NPT are separate connection options across the 3/8-2-inch catalogue range.

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	3/8-2 in
Pressure ratings	PN40
Temperature	-196 to +80°C · series*
Connections	BSP / NPT threaded
Medium	LNG, LOX, LN2, LAr

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	3/8-2 in
Pressure ratings	PN40
Connection	BSP / NPT
Operation	Automatic non-return
series temperature*	-196°C to +80°C
Medium	LNG, LOX, LN2, LAr

End connections

Illustrated arrangement: Female threaded inline ports, inclined service-cap neck and small side pivot plug.

Connection detail	Selection requirement
Published connection	BSP · NPT
Thread standard	BSP and NPT are separate options. Confirm exact designation, taper/parallel form and male/female inlet and outlet; metric reference threads must not be relabelled as BSP or NPT.
Reference drawing scope	PN40 threaded reference arrangement, DN10, DN15, DN25, DN40 and DN50. DN20 and DN32 dimensions are not supplied. the technical record 2-M column is reproduced as a drawing value; it does not identify the BSP/NPT thread designation.

Materials

Component	Material / option
Body	CF8
Disc	S30408

Alternative arrangement materials

Materials apply to the supplied reference arrangement. PN40 threaded reference arrangement, DN10, DN15, DN25, DN40 and DN50. DN20 and DN32 dimensions are not supplied. the technical record 2-M column is reproduced as a drawing value; it does not identify the BSP/NPT thread designation.

Component	Material
Bonnet	CF8
Body	CF8
Disc	HPb59-1
Gasket	T2
Gasket	PTFE
Nut	HPb59-1

Component	Material
Rolling Bar	HPb59-1
Round Pin	S30408

Reference dimensions

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

PN40 threaded reference arrangement, DN10, DN15, DN25, DN40 and DN50. DN20 and DN32 dimensions are not supplied. the technical record 2-M column is reproduced as a drawing value; it does not identify the BSP/NPT thread designation.

Dimensions and connection reference

DN	Size (inch)	L	H	2-M	D0	Weight (kg)
10	3/8	54	34.5	17	Ø10	0.50
15	1/2	67	39	21	Ø15	0.60
25	1	95	55	32	Ø25	0.65
40	1 1/2	137	69	47	Ø40	0.75
50	2	147	85	58	Ø50	1.00

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, DN25, DN40, DN50. Dimensions and connection reference.
Installation drawing	Confirm BSP or NPT, male/female ends, thread sizes, engagement, end-to-end length and installation 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: BSP · NPT

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.