

ARD-SF-005

Cryogenic safety valve · PN320 · male BSP/NPT



A DN15 PN320 safety-valve range with three published set-pressure bands. The catalogue coefficient is 0.66; certified capacity and the final relief sizing remain order-specific.

These size and pressure ranges are subject to technical confirmation. They are not verified availability or approved operating limits. Exact size, rating, materials and design temperature require written confirmation.

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

Selection	Specification
Size range	DN 10-25
Pressure ratings	PN320
Temperature	-196 to +80°C · series*
Connections	Male BSP / NPT threaded
Medium	LNG, LOX, LN2, LAr, CO2

Available dimensional data: DN 15; PN320. Other sizes and ratings require technical confirmation.

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 10-25
Pressure ratings	PN320
Connection	Male threaded, BSP / NPT
Operation	Spring-loaded pressure relief
series temperature*	-196°C to +80°C
Set-pressure bands	5-10.9 / 11-19.9 / 20-28 MPa
Catalogue coefficient	0.66
Medium	LNG, LOX, LN2, LAr, CO2

End connections

Illustrated arrangement: Compact block body, male side and downward threaded ports, silver casing and tall brass-coloured cap.

Connection detail	Selection requirement
Published connection	BSP · NPT · Male
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	PN320 DN15 reference arrangement with M36x2 / M39x2 metric connections. Reference body/trim are S30408 / S32168. Catalogue CF8 / HPb59-1 and BSP/NPT variants need their own drawings. Setting bands are not certified discharge capacity.

Materials

Component	Material / option
Body	CF8
Seat	HPb59-1
Disc	HPb59-1

Alternative arrangement materials

Materials apply to the supplied reference arrangement. PN320 DN15 reference arrangement with M36x2 / M39x2 metric connections. Reference body/trim are S30408 / S32168. Catalogue CF8 / HPb59-1 and BSP/NPT variants need their own drawings. Setting bands are not certified discharge capacity.

Component	Material
Cover	HPb59-1
Spring	S30210

Component	Material
Body	S30408
Adjusting Screw	HPb59-1
Spring Seat	S30408
Sealing	T2
Gasket	PTFE
Disc	S32168
Valve Seat	S32168
Ejector Bar	S42020
Adjusting Ring	HPb59-1
Bonnet	S30408

Reference dimensions

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

PN320 DN15 reference arrangement with M36x2 / M39x2 metric connections. Reference body/trim are S30408 / S32168. Catalogue CF8 / HPb59-1 and BSP/NPT variants need their own drawings. Setting bands are not certified discharge capacity.

Dimensions and connection reference

DN	H	H1	D0	W	M1	M2	Set pressure (MPa)
15	269	72.5	Ø8	57.5	M36x2	M39x2	11 - 19.9
15	269	72.5	Ø8	57.5	M36x2	M39x2	20 - 28
15	269	72.5	Ø8	57.5	M36x2	M39x2	5 - 10.9

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: DN15. 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	Confirm allowable inlet pressure at the relieving temperature for the selected body, trim and seals. Specify set pressure, back pressure and certified relief capacity separately.

Configuration features

- Catalogue body: CF8
- Published connections: BSP · NPT · Male

Selection notes

These size and pressure ranges are subject to technical confirmation. They are not verified availability or approved operating limits. Exact size, rating, materials and design temperature require written confirmation.

*-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.

Specify required set pressure, relieving medium and temperature, back pressure and certified capacity. Spring-setting bands, nominal pressure and flange rating are separate values. No capacity or approval is inferred from the product illustration.

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.

Available dimensional data: DN 15; PN320. Other sizes and ratings require technical confirmation.

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.