

ARD-SF-006

Cryogenic safety valve - female BSP/NPT



A spring-loaded safety-valve catalogue reference offering female BSP or NPT connections. DN15-25 are listed, with a separate reference arrangement for connection and spring-band reference.

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 15-25
Pressure ratings	Set pressure to specify
Temperature	-196 to +80°C · series*
Connections	Female BSP / NPT threaded
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 15-25
Pressure ratings	Set pressure to specify
Connection	Female threaded, BSP / NPT
Pressure / setting	Specify rating and required set pressure
Operation	Spring-loaded pressure relief
series temperature*	-196°C to +80°C
Medium	LNG, LOX, LN2, LAr, CO2

End connections

Illustrated arrangement: The supplied illustration shows a female side port and a male downward adapter. Confirm the complete inlet/outlet arrangement for the female-threaded catalogue option.

Connection detail	Selection requirement
Published connection	BSP · NPT · Female
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	Supplied female-threaded relief arrangement, DN15 and DN25. M1/M2 are the exact reference connection designations, including metric threads; do not substitute BSP/NPT. DN20 is not tabulated. Set-pressure bands do not establish relief capacity.
Pictured thread arrangement	The supplied illustration shows a female side port and a male downward adapter. Confirm the complete inlet/outlet arrangement for the female-threaded catalogue option.

Materials

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

Alternative arrangement materials

Materials apply to the supplied reference arrangement. Supplied female-threaded relief arrangement, DN15 and DN25. M1/M2 are the exact reference connection designations, including metric threads; do not substitute BSP/NPT. DN20 is not tabulated. Set-pressure bands do not establish relief capacity.

Component	Material
Cover	HPb59-1
Spring Seat	S30408

Component	Material
Adjusting Ring	HPb59-1
Adjusting Screw	HPb59-1
Ejector Bar	20Cr13
Body	S30408
Lock Nut	S30408
Spring	S30210
Sealing	T2
Sealing	PTFE
Disc	S32168
Valve Seat	S32168
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.

Supplied female-threaded relief arrangement, DN15 and DN25. M1/M2 are the exact reference connection designations, including metric threads; do not substitute BSP/NPT. DN20 is not tabulated. Set-pressure bands do not establish relief capacity.

Dimensions and connection reference

DN	H	H1	M1	M2	L	Operating pressure (MPa)	Set pressure (MPa)
15	150	56	G3/4	M30x1.5	35	4.0	0.4 - 1.0
15	150	56	G3/4	M30x1.5	35	4.0	1.0 - 2.0
15	150	56	G3/4	M30x1.5	35	4.0	2.0 - 3.0
25	197	69	G1 1/4	M36x2	47	4.0	0.4 - 1.0
25	197	69	G1 1/4	M36x2	47	4.0	1.0 - 2.0
25	197	69	G1 1/4	M36x2	47	4.0	2.0 - 3.0

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, DN25. 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 · Female

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.

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.

the technical record offers female BSP/NPT connections, while its illustration includes a male downward adapter. Confirm the complete port arrangement using the order drawing; the image is retained as a illustrated arrangement.

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.