

ARD-SF-004

Cryogenic safety valve · male BSP/NPT



A spring-loaded pressure-relief valve with male threaded catalogue connections. DN10, DN15 and DN25 are listed; set pressure and certified relieving capacity are selected separately.

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 10-25
Pressure ratings	Set pressure to specify
Temperature	-196 to +80°C · series*
Connections	Male 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 10-25
Pressure ratings	Set pressure to specify
Connection	Male 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: Silver spring housing, brass-coloured cap and lower fitting, male side outlet and male downward adapter.

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	PN40 reference relief arrangement with metric M1/M2 connections, DN10, DN15 and DN25. BSP/NPT variants need their own drawings. Spring bands are listed separately; certified discharge capacity is required for sizing.

Materials

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

Alternative arrangement materials

Materials apply to the supplied reference arrangement. PN40 reference relief arrangement with metric M1/M2 connections, DN10, DN15 and DN25. BSP/NPT variants need their own drawings. Spring bands are listed separately; certified discharge capacity is required for sizing.

Component	Material
Dust Cover	HPb59-1
Bonnet	CF8
Disc	HPb59-1
Upper Gasket	T2

Component	Material
Stem	HPb59-1
Gasket	PTFE+C
Lock Nut	HPb59-1
Spring Bottom Pad	HPb59-1
Body	CF8
Adjusting Nut	HPb59-1
Sealing	T2
Valve Seat	HPb59-1
Spring	S30210
Gland Ring	HPb59-1

Reference dimensions

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

PN40 reference relief arrangement with metric M1/M2 connections, DN10, DN15 and DN25. BSP/NPT variants need their own drawings. Spring bands are listed separately; certified discharge capacity is required for sizing.

Dimensions and connection reference

DN	H	H1	D0	L	M1	M2	Set pressure (MPa)	Weight (kg)
10	161	56	Ø10.5	49	M30x1.5	M36x2	0.4 - 1.59	0.8
10	161	56	Ø10.5	49	M30x1.5	M36x2	1.60 - 2.7	0.8
10	161	56	Ø10.5	49	M30x1.5	M36x2	2.71 - 3.5	0.8
15	161	56	Ø10.5	49	M30x1.5	M36x2	0.4 - 1.59	1.0
15	161	56	Ø10.5	49	M30x1.5	M36x2	1.60 - 2.7	1.0
15	161	56	Ø10.5	49	M30x1.5	M36x2	2.71 - 3.5	1.0
25	186	69.5	Ø15	63	M36x2	M45x2	0.4 - 1.59	1.5
25	186	69.5	Ø15	63	M36x2	M45x2	1.60 - 2.7	1.5
25	186	69.5	Ø15	63	M36x2	M45x2	2.71 - 3.5	1.5

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. 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

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.

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.