

CRYOGENIC VALVES

CRYOGENIC SAFETY VALVE

Male Threaded

Cryogenic safety valve with a CF8 body and male BSP or NPT connections for pressure-relief duties.



Product illustration. End connections follow the selected configuration.

DIMENSIONS & P/T

Dimension table and drawing on page 2; reference construction materials on page 3. DN10, DN15, DN25. Confirm the specified reference arrangement.

P/T rating: confirm allowable pressure at relieving temperature for the selected body, trim and seals; specify set pressure separately.

CONFIGURATION & SERVICE REQUIREMENTS

Specify required set pressure, fluid and phase, relieving temperature, required capacity and allowable back pressure. Nominal rating is not the set pressure.

Confirm the selected inlet/outlet connections, trim materials and certified discharge capacity. Connection size alone does not establish the relief capacity.

PRODUCT INFORMATION & QUOTATIONS

nordicvalves.com/products/safety-valves/cryogenic-safety-valve-male-threaded

TECHNICAL SPECIFICATIONS

Specification	Catalogue data
Size range	DN10-DN25
Connection	Male threaded, BSP / NPT
Pressure / setting	Specify rating and required set pressure
Operation	Spring-loaded pressure relief
Source temperature*	-196°C to +80°C
Catalogue media	LNG, LOX, LN2, LAr, CO2

MATERIALS

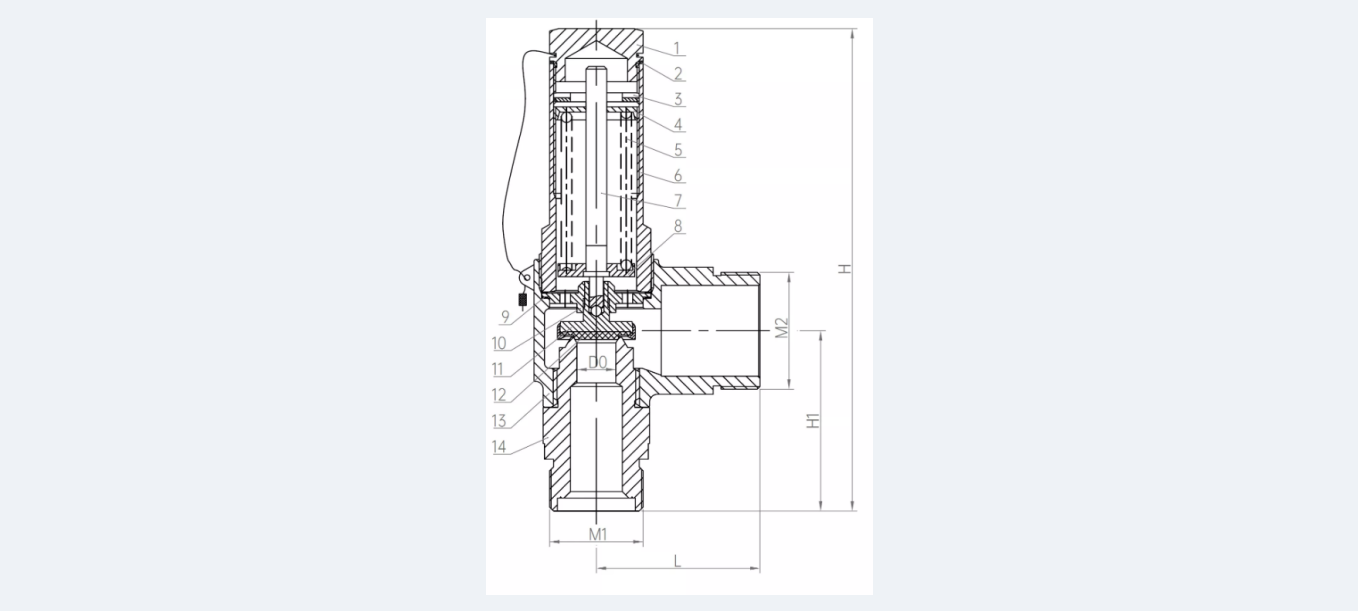
Component	Catalogue material
Body	CF8
Seat	HPb59-1
Disc	HPb59-1

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.

REFERENCE DRAWING & DIMENSIONS

Cryogenic Safety Valve - Male Threaded

PN40 source 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

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	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

Drawing reference: PN40 metric-thread arrangement

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 Safety Valve - Male Threaded

PN40 source 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	Source arrangement material
Dust Cover	HPb59-1
Bonnet	CF8
Disc	HPb59-1
Upper Gasket	T2
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: PN40 metric-thread arrangement

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.