CRYOGENIC VALVES

CRYOGENIC SAFETY VALVE

PN320 | Male Threaded

PN320 cryogenic safety valve with a CF8 body and male BSP or NPT connections.



Product illustration. End connections follow the selected configuration.

DIMENSIONS & P/T

Dimension table and drawing on page 2; reference construction materials on page 3. DN15. 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.

TECHNICAL SPECIFICATIONS

Specification	Catalogue data
Size range	DN15
Connection	Male threaded, BSP / NPT
Nominal rating	PN320
Operation	Spring-loaded pressure relief
Source temperature*	-196°C to +80°C
Set-pressure bands	5-10.9 / 11-19.9 / 20-28 MPa
Catalogue coefficient	0.66
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.

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.

The listed setting bands and coefficient come from the Nordic catalogue. Order-specific capacity and trim documentation are required for sizing.

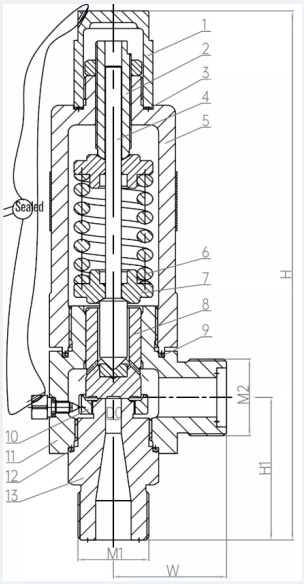
PRODUCT INFORMATION & QUOTATIONS

nordicvalves.com/products/safety-valves/cryogenic-safety-valve-pn320-male-threaded

REFERENCE DRAWING & DIMENSIONS

Cryogenic Safety Valve - PN320 - Male Threaded

PN320 DN15 source arrangement with M36x2 / M39x2 metric connections. Source 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

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	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

Drawing reference: PN320 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 - PN320 - Male Threaded

PN320 DN15 source arrangement with M36x2 / M39x2 metric connections. Source 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	Source arrangement material
Cover	HPb59-1
Spring	S30210
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: PN320 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.