

ARD-SF-007

Cryogenic safety valve · Class 150 / PN40 flanges



A flanged cryogenic safety-valve range covering DN40-150. Class 150 and PN40 describe separate flange options; the required relief setting and capacity are specified independently.

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 40-150
Pressure ratings	Relief setting to specify
Temperature	Confirm design temperature
Connections	Flanged · Class 150 / PN40
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 40-150
Pressure ratings	Relief setting to specify
Connection	Flanged CL150 / Flanged PN40
Pressure / setting	Specify rating and required set pressure
Operation	Spring-loaded pressure relief
Temperature	Confirm limits for the selected construction
Medium	LNG, LOX, LN2, LAr, CO2

End connections

Illustrated arrangement: Vertical bottom inlet flange and horizontal side outlet flange, bolted cover and spring housing.

Connection detail	Selection requirement
Published connection	Flanged CL150 · Flanged PN40
Flange interface	Confirm standard, pressure class, facing, drilling and mating dimensions. The image alone does not establish any of these.
Published flange options	Class 150 and PN40 are alternative flange ranges, not relief set pressures or equivalent designations.

Materials

Component	Material / option
Body	CF8

Engineering requirements

Topic	Requirement
Dimension data	Order-specific dimensions required; no matched dimension table is published for this configuration.
Installation drawing	Confirm end-to-end length, overall height, flange standard, facing, drilling and operating/removal 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: Flanged CL150 · Flanged PN40

Selection notes

Sizes and pressure ratings depend on construction, materials and configuration. Confirm the selected pressure-temperature rating with the quotation.

the technical record categorises this range for cryogenic service but does not publish a numeric temperature limit for this construction. Confirm the minimum design temperature and trim before selection.

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.

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.