

ARD-CV-002

Cryogenic solenoid valve



An electrically operated cryogenic globe valve with flanged connections and published coil-voltage options.

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 25-40
Pressure ratings	PN25 (2.5 MPa nominal)
Temperature	-196 to +60°C
Connections	Flanged
Medium	LO2, LN2, LAr, LCO2, LNG

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 25-40
Pressure ratings	PN25 (2.5 MPa nominal)
End connections	Flanged
Medium	LO2, LN2, LAr, LCO2, LNG
Temperature range	-196 to +60°C
Flow direction	High to low
Coil voltage	DC24V/AC220V
Published explosion-protection marking	EXmbII CT4 GB

End connections

Illustrated arrangement: Flanged process body with the solenoid operator above it.

Connection detail	Selection requirement
Published connection	Flange□HG/T20592□
Referenced flange standard	HG/T 20592; edition, facing, drilling and pressure designation must be specified.
Flange selection	Specify nominal size, flange rating, facing, drilling and gasket. Do not infer these from the image alone.

Materials

Component	Material / option
Body	CF8
Bonnet	CF8
Stem	06Cr19Ni10
Top / closure element	06Cr19Ni10+RPTFE
Gasket	PTFE

Reference dimensions

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

DN	L	H	K	N-□	Weight (kg)
25	124	197	85	4-14	-

DN	L	H	K	N-□	Weight (kg)
32	140	210	100	4-18	-
40	154	220	110	4-18	-

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.

Configuration features

- Flange□HG/T20592□
- Flow direction: High to low

Selection notes

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

The explosion-protection marking is reproduced as published; confirm the certificate, zone suitability and selected coil before ordering.

“Top / closure element” follows the component designation in the reference material list.

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.