

ARD-ES-004

High-pressure cryogenic shut-off valve - PN160



A PN160 cryogenic shut-off series for DN10-40 welded lines, with hard-alloy sealing. The illustrated pneumatic assembly includes a cylindrical actuator, an open yoke, an extended neck and a T-bar manual override.

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 10-40
Pressure ratings	PN160 (16.0 MPa nominal)
Temperature	-196 to +75°C
Connections	Weld ends - preparation to specify
Medium	LNG / NG, LOX / O2, LN2 / N2, LAr / Ar

Define your requirement

Specify medium, design pressure and temperature, nominal size, connection standard, operation, quantity and required inspection documentation.

Project selection

Topic	Selection requirement
Duty definition	Specify differential pressure, flow direction, leakage requirement and operating frequency.
Pneumatic controls	Specify air supply, fail action, control signal, feedback and required manual-override operation.

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
Operation	Pneumatic cylinder with manual override in illustrated arrangement
Flow direction	Under the disc to above the disc
Inspection reference	GB/T 24918

End connections

Illustrated arrangement: a compact block body below a bolted bonnet and long neck, with an open-yoke pneumatic cylinder and T-bar manual override

Connection detail	Selection requirement
Connection options	Weld ends - preparation to specify
Interface selection	Specify the end standard, nominal size, pipe dimensions and required mating interface.
Weld preparation	The series is documented as welded. Specify BW/SW type, bore, pipe OD and wall thickness; no weld preparation is inferred from the illustration.

Materials

Component	Material / option
Body, bonnet and stem	Stainless steel; exact grade to specify
Seal	Hard alloy; grade to specify

Configuration features

- PN160 nominal-pressure series
- Hard-alloy sealing
- Extended-neck pneumatic assembly with manual override

Selection notes

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

Fail-open/fail-close action, spring arrangement, control supply, closing time and any ESD or SIL documentation are specified for the selected assembly; the photograph does not establish these functions.

Confirm pressure-temperature limits, material compatibility, oxygen cleaning, trapped-liquid relief and certification for the selected assembly. PN, ASME Class and relief set pressure are separate values.