

ARD-ES-001

Pneumatic emergency shut-off valve



A pneumatic shut-off range with an extended bonnet and a published thermal emergency shut-off temperature.

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 10-200
Pressure ratings	PN40 (4.0 MPa nominal)
Temperature	-196 to +60°C
Connections	Socket weld (SW)
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 10-200
Pressure ratings	PN40 (4.0 MPa nominal)
End connections	Socket weld (SW)
Medium	LO2, LN2, LAr, LCO2, LNG
Temperature range	-196 to +60°C
Emergency shut-off temperature	70°C±5°C
Flow direction	High to low

End connections

Illustrated arrangement: Two straight socket-weld ports below the extended neck and pneumatic operator.

Connection detail	Selection requirement
Published connection	Socket weld
Connection standard	Not specified on this product page. Confirm the mating standard with the offer.
Weld selection	Specify pipe OD, wall thickness/schedule, material and weld preparation. SW and BW are different connections.

Materials

Component	Material / option
Body	CF8
Bonnet	Composite
Stem	06Cr19Ni10
Top / closure element	06Cr19Ni10+PTFE
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	H	H1	L	D0	DI	B	Weight (kg)
10	392	238	60	80	14.5	5	-
15	392	238	60	80	18.5	5	-
20	459	305	80	80	25.5	6	-

DN	H	H1	L	D0	DI	B	Weight (kg)
25	459	305	80	80	32.5	6	4.825
32	474	317	100	80	38.5	8	8.97
40	516	338	100	140	45.5	8	9.05
50	557	377	130	140	57.5	8	11.20
65	567	387	150	140	76.5	10	13
80	698	470	180	220	90	15	27
100	698	470	200	220	109	15	-
125	782	554	280	220	134	15	-
150	833	605	350	220	160	30	-
200	914	686	400	220	220	20	67.5

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

- Socket weld
- 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.

“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.