

ARD-BF-001

Triple-offset cryogenic butterfly valve



A metal-seated triple-offset range for large cryogenic lines, with an extended bonnet and a choice of operators.

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	2-42 in
Pressure ratings	ASME Class 150-900
Temperature	Down to -196°C
Connections	Butt weld (BW) · Flanged

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	2-42 in
Pressure ratings	ASME Class 150-900
End connections	Butt weld (BW) · Flanged
Temperature range	Down to -196°C
Referenced design standards	BS 6364; ASME B16.34; ASME VIII
Referenced pressure / seat tests	API 598; API 6D; BS 6364 (published list)
Referenced emission tests	ISO 15848; API 622
Functional safety reference	IEC 61508 (configuration and evidence to be confirmed)

End connections

Illustrated arrangement: Weld-end collars on the pictured side-entry butterfly configuration.

Connection detail	Selection requirement
Published connection	Butt weld or flanged
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.
Flange selection	Specify nominal size, flange rating, facing, drilling and gasket. Do not infer these from the image alone.

Materials

Component	Material / option
Body	- ASTM A351-CF8(M)/CF3(M)
Bonnet	- ASTM A351-CF8(M)/CF3(M)
Stem	ASTM A182-316 / Gr.660
Disk	ASTM A351-CF8/A182 F316
Extended Bonnet	ASTM A351-CF3M)/ 316(L)
Gasket	SPIRAL WOUND GRAPHITE
Gland Packing	GRAPHITE

Configuration features

- Triple-offset metal-seated design

- Extended bonnet
- Manual, pneumatic, electric or hydraulic operation
- Reinforced stainless shaft bearings
- Internal shaft blowout protection
- Replaceable seat
- Fire-safe design features

Selection notes

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

Published series limits are not a size-by-pressure availability matrix. Materials, temperature capability, leakage class, testing and certification are confirmed for the selected configuration.

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.