

ARD-BV-004

Cryogenic double block & bleed valve



A double-block-and-bleed arrangement with a dedicated cavity bleed connection and project-specific seat selection.

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	NPS 1-12 / DN 25-300
Pressure ratings	ASME Class 150-2500
Temperature	-196 to +180°C
Connections	Socket weld (SW) · 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	NPS 1-12 / DN 25-300
Pressure ratings	ASME Class 150-2500
End connections	Socket weld (SW) · Butt weld (BW) · Flanged
Temperature range	-196 to +180°C
Referenced design standards	API 6D; API 6A; ASME B16.34; ISO 14313; ISO 10423; ISO 17292
Referenced pressure / seat tests	API 6D; ISO 5208; API 598; BS 6364; MESC SPE 77-200
Face-to-face	API 6D / GOST / custom
Fire-test references	API 607 / API 6FA
Functional safety reference	IEC 61508 / SIL 3 (reference claim; configuration to be confirmed)
Fugitive-emission reference	ISO 15848
Regulatory reference	PED 2014/68/EU, Annex III, Module H (reference claim)

End connections

Illustrated arrangement: One flanged process connection and one opposite plugged/covered connection are visible; confirm the opposite end and bleed interface.

Connection detail	Selection requirement
Published connection	RF / RTJ: ASME B16.5 / B16.47; BW: B16.25; SW: B16.11
Referenced connection standards	RF / RTJ flanges: ASME B16.5 / B16.47; BW: ASME B16.25; SW: ASME B16.11.
Flange facing	RTJ = ring-type joint facing, not a separate pipe-connection family. Confirm RF / RTJ and gasket designation.
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
Material families	Stainless steel; duplex / super duplex; nickel alloys; titanium
Seats	Soft or metal hard-faced
Secondary seals	Pure graphite

Configuration features

- Forged bolted two- or three-piece body; top-entry alternative
- Soft or hard-faced metal seats
- SPE / DPE seat combinations
- Manual wrench or gear with padlocking; pneumatic, hydraulic or electric actuation
- Secondary graphite seals
- Antistatic device and anti-blowout stem
- Low-emission packing, lip seals and graphite configurations available
- CRA overlay on dynamic sealing areas or wetted parts available
- Extended bonnet available for low temperature

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.

DBB is not automatically DIB. Specify the pressure direction, seat arrangement and required isolation duty; the intended double-isolation performance must be confirmed.

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.