

ARD-BF-005

Pneumatic cryogenic triple-offset butterfly valve



A large-diameter triple-offset butterfly operating package with a short axial body and an extended shaft. Remote air-operated isolation with the drive mounted above the cryogenic extension.

Series limits guide enquiry and are not verified availability or approved operating limits for every size, pressure and operator combination. Confirm the selected design and pressure-temperature rating.

Product illustration. Appearance and dimensions depend on the selected configuration.

Selection	Specification
Size range	NPS 3-72
Pressure ratings	ASME Class 150-600
Temperature	Down to -196°C; upper limit to confirm
Connections	Wafer / lug / RF flanged / butt weld (BW)
Medium	LNG / LPG; exact process medium to specify

Define your requirement

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

Project selection

Topic	Selection requirement
Air and controls	Specify supply pressure, air quality, control signal, solenoid and position indication.
Actuator sizing	Confirm breakaway and running load at maximum differential pressure, closing time and required fail action.

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
Construction	Triple-offset disc; extended shaft
Operation	Pneumatic quarter-turn actuator

End connections

Illustrated arrangement: a double-flanged butterfly body, open disc, long shaft extension and pneumatic drive

Connection detail	Selection requirement
Connection options	Wafer / lug / RF flanged / butt weld (BW)
Mating interface	Confirm end standard, facing or weld preparation, pipe dimensions and installation envelope.

Materials

Component	Material / option
Body and bonnet	Cryogenic stainless steel; selected grade to confirm
Trim, seats and seals	Selected material schedule to confirm

Configuration features

- Triple-offset disc architecture
- Short body installation
- Pneumatic drive above the extension

Selection notes

Series limits guide enquiry and are not verified availability or approved operating limits for every size, pressure and operator combination. Confirm the selected design and pressure-temperature rating.

Air-operated does not establish spring return, fail-close action or a SIL-rated shutdown assembly.

Confirm sealing direction, seat construction, disc clearance and the selected flange or weld arrangement.

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.