

ARD-BF-011

Pneumatic liquid-hydrogen butterfly valve



A dedicated liquid-hydrogen disc-valve configuration with an extended stuffing box and replaceable sealing-ring arrangement. A pneumatic quarter-turn drive is illustrated for remote isolation.

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 1/2-6
Pressure ratings	ASME Class 150-600
Temperature	-253 to +80°C
Connections	Wafer / lug / RF flanged / butt weld (BW)
Medium	LH2 / liquid hydrogen

Define your requirement

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

Project selection

Topic	Selection requirement
Hydrogen qualification	Specify cleanliness, material compatibility, seal grade, leak-test method and required traceability.
Installation and operation	Confirm disc clearance, sealing direction, drive load and the selected pipe interface.

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	Extended-stuffing-box butterfly; replaceable seal ring
Operation	Pneumatic quarter-turn actuator

End connections

Illustrated arrangement: two RF flanged line connections

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

- Liquid-hydrogen temperature range
- Extended upper assembly
- Replaceable sealing-ring selection

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.

Class ratings are not allowable operating pressure at every temperature. Confirm the selected valve and seal qualification.

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

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.