CRYOGENIC VALVES

CRYOGENIC EMERGENCY SHUT-OFF VALVE

Socket Weld

Cryogenic emergency shut-off valve with socket-weld connections for low-temperature process pipework.



Product illustration. End connections follow the selected configuration.

DIMENSIONS & P/T

Dimension table and drawing on page 2; reference construction materials on page 3. DN15, DN20, DN25, DN32, DN40, DN50. Confirm the specified reference arrangement.

P/T rating: confirm allowable pressure versus temperature for the selected body, seat and seals. Nominal class and temperature range do not define a P/T curve.

TECHNICAL SPECIFICATIONS

Specification	Catalogue data
Size range	DN10-DN50
Connection	Socket Weld
Nominal rating	PN16 / PN40
Operation	Pneumatic actuator with handwheel
Source temperature*	-196°C to +80°C
Catalogue media	LNG, LOX, LN2, LAr, CO2

MATERIALS

Component	Catalogue material
Body	CF8
Disc	S30408

Catalogue options. Nominal ratings are not the allowable pressure at every temperature; confirm the selected configuration. *Documented family temperature range; confirm pressure-temperature limits and the selected trim.

CONFIGURATION & SERVICE REQUIREMENTS

Specify pilot-air pressure, control signal, closure time, fail position and the required emergency shutdown interface.

Confirm the selected pressure class, weld ends and actuator arrangement. Installation dimensions are supplied for that configuration.

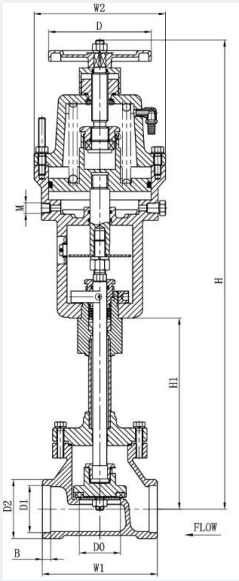
PRODUCT INFORMATION & QUOTATIONS

nordicvalves.com/products/globe-valves/cryogenic-emergency-shut-off-valve-socket-weld

REFERENCE DRAWING & DIMENSIONS

Cryogenic Emergency Shut-off Valve - Socket Weld

PN16 socket-weld arrangement with the illustrated actuator, DN15-DN50. DN10 is not tabulated. PN40 and other actuators require their own drawings. M is the pilot-air connection, not a linear dimension.



DIMENSIONS AND CONNECTION REFERENCE

Linear and diameter dimensions are in mm; weights are in kg. Pressure bands are in MPa (1 MPa = 10 bar). Height and length datums follow the drawing. Thread designations and ISO mounting codes are not linear dimensions.

DN	H	H1	D	D0	D1	D2	B	W1	W2	M
15	457	175	Ø100	Ø15	Ø18.5	Ø29.5	6	65	Ø130	Rc1/4
20	479	179	Ø100	Ø20	Ø25.5	Ø36	8	80	Ø130	Rc1/4
25	486	186	Ø100	Ø25	Ø32.5	Ø43.5	8	90	Ø130	Rc1/4
32	500	200	Ø100	Ø32	Ø38.5	Ø53	8	105	Ø130	Rc1/4
40	577	223	Ø125	Ø40	Ø45.5	Ø62	8	120	Ø160	Rc1/4
50	587	233	Ø125	Ø50	Ø57.5	Ø72	10	140	Ø160	Rc1/4

Drawing reference: PN16 body and actuator

Use the approved order drawing for installation and fabrication. Reference dimensions do not establish the pressure-temperature rating of a different variant.

REFERENCE CONSTRUCTION & MATERIALS

Cryogenic Emergency Shut-off Valve - Socket Weld

PN16 socket-weld arrangement with the illustrated actuator, DN15-DN50. DN10 is not tabulated. PN40 and other actuators require their own drawings. M is the pilot-air connection, not a linear dimension.

Component	Source arrangement material
Body	CF8
Screw	S30408
Hexagon Nut	S30408
Disc Sealing	PCTFE
Stem	S30408
Connecting Nut	S30408
Disc	S30408
V Ring	PTFE
Connecting Pipe	S30408
Gasket	RPTFE
Gland Nut	S30408
Gland Packings	S30408
Bonnet	S30408
Cylinder Body & Cover	ZL104
Hand Wheel	Y102

Reference: PN16 body and actuator

The materials above belong to the illustrated source arrangement. Catalogue options are shown on page 1. Confirm the ordered body, trim, seats and seals when a different material, pressure class or connection is selected.

Nominal pressure, temperature range and relief set pressure are separate specifications. Confirm allowable pressure at the actual design temperature and any required cleaning, testing and certification with the quotation.