

Cryogenic Bronze Ball Valve

Reduced Bore

DN15- DN50 (1/2" - 2")

This Bronze uni-directional ball valve has been designed specifically for cryogenic applications. It is available with NPT or BSP threaded ends.

The flow co-efficient (CV) allows full flow of media from filling stations and portable delivery systems therefore no delay in filling time.

Other variations include:

- Stainless Steel Version
- Actuated
- Full Bore

All valves are degreased for oxygen duty, assembled in clean room conditions and pressure tested prior to dispatch.

Maximum Working Pressure (MWP)

Subject to end connections

Up to 50 bar (725 psi) at -196°C to +65°C

Features

- Spring loaded gland seal giving low torque levels under both ambient and cryogenic conditions
- One piece, anti-blow-out stem
- Relief hole to prevent trapping of liquefied gases
- Designed to prevent incorrect, and hence dangerous, re-assembly after stripping for maintenance
- Removable centre section designed to industry standard dimensions, allowing interchangeability in existing installations
- Valves can be supplied with actuators fitted allowing fast, remote automatic operation
- Long life spring loaded gland packing

Technical

- Designed and engineered for use with Group 1 gases.
- Designed and manufactured in accordance with ASTM B31.1, BS EN 1626 and BS ISO 21011
- Optional full material traceability backed by BS EN 10204 3.1/3.2 certification.

CE Marked according to the Pressure Equipment Directive



DN50 Bronze Ball Valve with NPT Threaded Ends



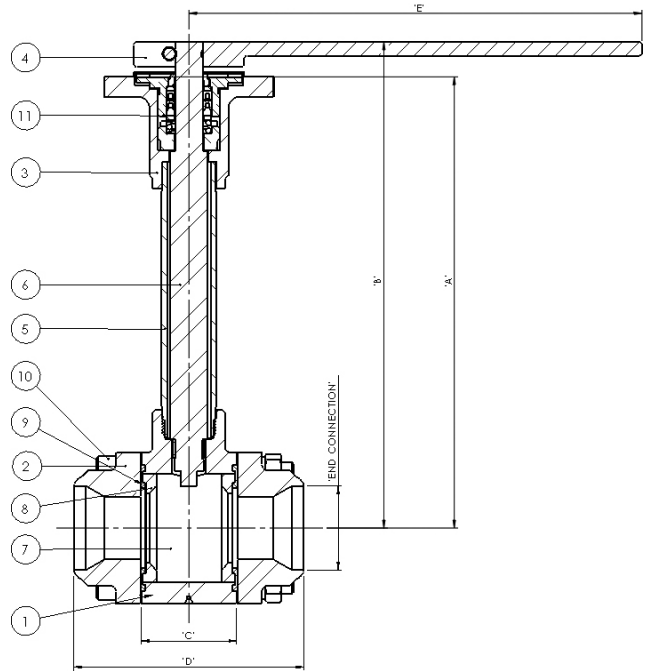
DN15 Ball Valve with NPT Threaded Ends



DN25 Ball Valve with NPT Threaded Ends

Materials

	Bronze
1. Body	Gunmetal BS EN 1982 CC491K
2. End Adaptors	Gunmetal BS EN 1982 CC491K
3. Gland Housing	Stainless Steel ASTM A351 CF8M
4. Lever	Stainless Steel ASTM A351 CF8M
5. Extension Tube	Stainless Steel ASTM A269 TP304L
6. Stem	Stainless Steel BS EN 10088-3 1.4401
7. Ball	Brass BS EN 12164 CW614N
8. Ball Seal	Hostafion
9. End Adaptor Seal	Virgin PTFE
10. Fasteners	Stainless Steel BS6105 A2/A4 Gr.70
11. Gland Packings	Virgin PTFE



Specifications

Size	Valve Size		Reduced Bore Size		Dimension						Torque		CV (US GPM)	Weight (kg)
	mm	in	mm	in	A	B	C	D	E	P.C.D	Nm	lbft		
DN15	15	½	11	¾	230	250	21	67	190	50	10	7	9	2
DN25	25	1	20	¾	230	250	32	96	190	60	23	17	30	3
DN40	40	1½	32	1¼	230	250	49	117	230	80	40	30	90	5
DN50	50	2	37	1½	230	250	56	129	230	100	62	46	138	7

How to Order

Part Number	Valve Size Diameter Nominal (DN)	Connection Type	Stem Length (mm)
CZFR30GTAE4BND	DN15	BSP-PL	230
CZFR30GTEE4BND		NPT	
CZFR50GTAE4BND	DN25	BSP-PL	230
CZFR50GTEE4BND		NPT	
CZFR70GTAE4BND	DN40	BSP-PL	230
CZFR70GTEE4BND		NPT	
CZFR80GTAE4BND	DN50	BSP-PL	230
CZFR80GTEE4BND		NPT	

Please contact us for other options.

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