



Bestobell

Cryogenic Valves

Cryogenic Bronze Globe Valve

Bolted Bonnet - Extended Stem and Non Extended Stem

DN6 - DN50 (1/4" - 2")

Description

Bronze extended and non extended stem globe valves with bolted bonnet, integral seat and renewable PTFE/PCTFE disc, complete with bronze internals. Available with screwed ends, the valve is of the cone seat design for drop tight shut off. The bolted bonnet allows easy maintenance, even in confined spaces with lower bolting torques required than for the equivalent size union bonnet valve.

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

Maximum Working Pressure (MWP)

(Subject to End Connections)

50 Bar (725 psi) at -196°C to +65°C (extended spindle)

50 Bar (725 psi) at -20°C to +65°C (non-extended spindle)

Features

- Unique Bestobell loose flange bolted bonnet design allows for thermal expansion and contraction and eliminates leakage at the bonnet gasket
- PTFE / PCTFE seat to ensure tight shut off at all times
- Designed and engineered specifically for cryogenic service
- Anti-blow out spindle and one-piece high strength design for operator safety
- Long life, low torque spindle thread
- Lightweight ergonomic aluminium handwheel
- Screwed and welded high strength extension tube / bonnet joints
- Revolving disc ensures non-rotating seat contact for extended leak free life
- Full bore
- Fast/easy maintenance of PTFE/PCTFE components



Technical

Manual operated, inside screw, Globe valves size range DN6, DN10, DN15, DN20, DN25, DN40, DN50. Also available in SDNR.

Designed and engineered for use with O₂, N₂, Ar, CO₂, He, Kr, Ne, H₂, C₂H₄ and N₂O service.

Actuated valves available.

ISO 9001 accreditation – design and manufacture to ASTM B31.1 and BSEN 1626. Optional full material traceability backed by BSEN 10204 3.1/3.2 certification.

CE Marking according to Pressure Equipment Directive 97/23/EC.

π Marking to Directive 99/36/EC only on written request complete with purchase order.

For other options please contact us.



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Materials

Body	BSEN 1982 CC491K
Bonnet	ASTM A276 316
Tube, Extension	ASTM A312 TP 304L
Stem	ASTM A276 316
Handwheel	Aluminium
Disc	BSEN 12164 CW 721R
Bronze Insert	BSEN 12163 CW 451K
Seal (up to and including DN40)	PCTFE
Seal (DN50)	PTFE
Gasket Bonnet	SIGMA 511
Bonnet Flange	ASTM A351 CF8M
Gland Packing	PTFE
Fasteners	BS6105 A4 Gr.80

Valve Selection Data

There are three steps to selecting the complete part number for a valve;

1. First select the part number for the valve size from the Specifications section below, "CNB -- +"
2. Then select the end connection code from the table below.
3. Then select the extension code from the table below.

Example: 25mm globe valve with NPT connections and a 230mm extension.

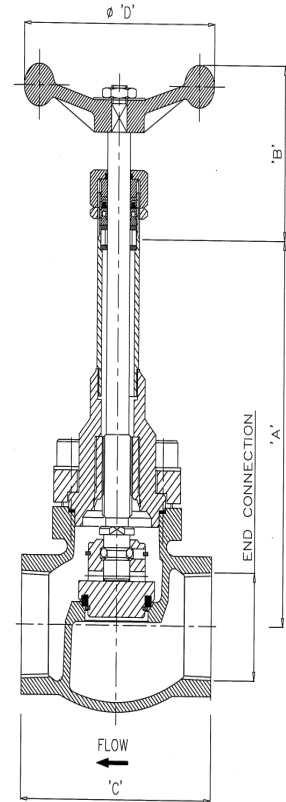
Complete part number = CNB50TED3C

	End connection	Extension
BSP PARALLEL (ISO 228)	TA	
NPT	TE	
NON EXTENDED		C1C
230mm EXTENSION 'A'		D3C
300mm EXTENSION 'A'		D6C

Specifications

Dimension	Unit	DN6 ¼	DN10 ⅜	DN15 ½	DN20 ¾	DN25 1	DN40 1 ½	DN50 Bore (mm) 2 Bore (inches)
Part No		CNB10+	CNB20+	CNB30+	CNB40+	CNB50+	CNB70+	CNB80+
* A Extended	mm	230/300	230/300	230/300	230/300	230/300	230/300	230/300
A Non Extended		80	80	80	80	90	110	140
B	mm	75	75	75	75	75	80	85
C	mm	68	68	68	76	92	121	146
D	mm	80	80	80	80	101	121	146
Cv	US gpm	3.6	3.6	3.6	6.2	13.2	26.5	43.0
Weight	kg	1.5	1.5	1.5	2.0	2.3	4.2	7.2
Weight	kg	1.25	1.25	1.25	1.75	2.0	3.9	6.8

* Dimension A: other lengths available to special orders.



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