

## Product Overview



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### The Company

Bestobell Valves is a world leader in the design and manufacture of cryogenic valves, recognized globally for product quality and innovation. Our valves are used with numerous cryogenic gases including oxygen, carbon dioxide, nitrogen, liquid natural gas (LNG) and argon. The applications supported by our cryogenic valves include static storage tanks, trailers, environmental control, management of medical gases used in hospitals, through to gas handling systems on LNG ships. In addition, Bestobell Valves supplies a complete portfolio of fluid control technology from the Birflo range, which includes Truflo, Constaflow and FluidMix. These are used in flow control systems for food/beverage plants, pharmaceutical production facilities and cooling plants used for defence weapons systems. Bestobell Valves is a part of the Flow Group.

### Quality

Bestobell Valves manufactures for a wide range of applications and in a comprehensive range of materials. In addition to our manufacturing capability, Bestobell Valves also has full design capability. Our highly skilled engineering team is always available to provide users and engineering contractors with the solution to difficult or unusual valve applications.

Bestobell's range of products fully complies with the pressure equipment directive (PED) 97/23/EC.

Bestobell's notified body is TUV.

Bestobell is ISO 9001 2000 approved.



### Useful Conversion Charts

Gases conversion table				
GAS	*m³ gas per kilogram	*m³ gas per litre of liquid	Boiling point °C	Relative density
Oxygen	0.738	0.842	-183	1.1
Nitrogen	0.844	0.682	-196	1.0
Carbon Dioxide	0.535	-	-78#	1.5
Argon	0.591	0.822	-186	1.4
Air	0.816	-	-194	1.0
Helium	5.913	0.737	-269	0.14
Hydrogen	11.73	0.831	-253	0.07
LPG (85% Propane)	0.531	0.271	-42	2.0
Acetylene	0.901	-	-75	0.9
Sulphur Dioxide	0.366	0.534	-10	2.3
Nitrous Oxide	0.534	0.654	-89	1.5
*at 15° C and 101.33 kPa			# dry ice (solid)	

Bar to psi	Divide psi figure by 14.5
Bar to kg per cm²	Bar multiplied by 1.0197
mbar to kPa	mbar multiplied x 0.1
kPa to bar	Divide by 100
MPa to bar	Multiply by 10
kg per cm² to bar	Multiply by 0.98
1 UK gallon	4.546 litres
1 UK gallon	1.201 US gallon
1 US gallon	3.785 litres
1 kilogram	2.2 lb

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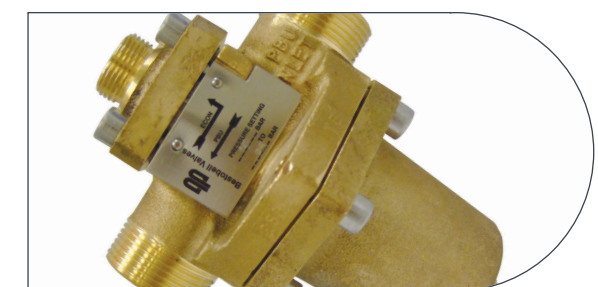


Bestobell Valves is part of the Flow Group



• cryogenic

• LNG



... your cryogenic valve partner



air separation  
transport & storage  
medical



liquid natural gas  
food & beverage

defense



-Bestobell Valves Product Overview

	CRYOGENIC					
Valve type	Manual Globe	Actuated Globe	Gate	Emergency Shut Off Gate	Ball Lever, pneumatic and fire block	

Size range	DN6-DN300 1/4" - 12"	DN15-DN150 1/2" - 6"	DN40 - DN200 1 1/2" - 8"	DN40 - DN100 1 1/2" - 4"	DN15-DN80 1/2" - 3"
Pressure rating	CL150, CL300, PN45, PN50	CL150, CL300, PN45, PN50	CL150, CL300, PN45, PN50	Up to 40 BAR. 150 psi max actuator inlet pressure	DN15-50 PN50 DN65 & 80 34 BAR
End connections	Screwed, flanged, SW/BW, stubs	SW/BW	Screwed, flanged, SW/BW, stubs	SW/BW	Screwed, SW/BW
Configurations	Bolted bonnet, union bonnet, cone seat. Extended and non-extended stem	Bolted bonnet, cone seat. Extended stem	Bronze: Bolted bonnet. Stainless steel: Full bore. Removable body seat to eliminate risk of damage during installation	Full bore. Removable body seat to eliminate risk of damage during installation	3-piece bodied as standard up to DN80/3". DN65/80 (2 1/2"/3") wafer type also. RB as standard, FB & pneumatic actuator on request. Fire block/emergency shut off
Materials of construction	Bronze, gunmetal, austenitic stainless steel	Austenitic stainless steel	Bronze, gunmetal, austenitic stainless steel	Austenitic stainless steel	Bronze, gunmetal, austenitic stainless steel

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CRYOGENIC					
Safety Relief	Divertor Assemblies	Cryogenic Pressure Regulator	Manifold Fill Assemblies	ASPRO (Automatic double block & bleed)	Lift & Swing Check

DN6-DN20 1/4" - 3/4"	DN20-DN50 3/4" - 2"	DN15 1/2"	DN25 - DN40 1" - 1 1/2"	DN6 - DN20 1/4" - 3/4"	DN6 - DN150 1/4" - 6"
Up to 44 BAR	Up to 50 BAR	Up to 50 BAR	Up to 50 BAR	Up to 410 BAR	CL150, CL300, PN45, PN50
Inlet screwed male, outlet screwed female	Please contact technical department	Please contact technical department	Please contact technical department	Female screwed, socket weld	Screwed, SW/BW, stubs
Angle relief, thermal relief, in-line relief	T-port as standard. Available as complete assembly with safety valves & bursting discs	1. PBU & economiser & ball check 2. PBU only (no economiser) 3. As item 1 + angle check	Internal check valve and/or strainer optional	Please contact technical department	Lift - bolted bonnet. Swing - screwed/bolted bonnet
Bronze, gunmetal, austenitic stainless steel on request	Bronze, gunmetal, austenitic stainless steel	Bronze, gunmetal, austenitic stainless steel on request	Bronze, gunmetal, austenitic stainless steel	Austenitic stainless steel	Bronze, gunmetal, austenitic stainless steel

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CRYOGENIC	FIRE SAFE CRYOGENIC				
Strainers	Cryogenic Manual Globe	Cryogenic Actuated Globe	Cryogenic Swing & Lift Check	Cryogenic Flange	Valve type

DN10 - DN80 3/8" - 3"	DN25 - DN300 1" - 12"	DN25 - DN350 1" - 14"	DN15-DN350 1/2" - 14"	DN15-DN50 1/2" - 2"	Size range
PN50	CLASS 150	CLASS 150	CLASS 150	CLASS 150 / 300	Pressure rating
Screwed, SW, stubs	Butt weld or flanged	Butt weld or flanged	Butt weld or flanged	Butt weld	End connections
Bolted bonnet	Metal to metal seat, fire-safe design, extended stem	Hydraulic motor driven or pneumatic actuators. Available as throttling, On/Off or Emergency Shut Down (ESD)	Metal to metal or soft seat, fire-safe design	fire-safe design	Configurations
Bronze, gunmetal, austenitic stainless steel	Austenitic stainless steel, graphite packings and reinforced graphite/spiral wound gasket	Austenitic stainless steel PTFE seal, graphite packings	Austenitic stainless steel, graphite packings and reinforced graphite/spiral wound gasket	Austenitic stainless steel and reinforced graphite gasket	Materials of construction

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