

RegO® Goddard – Bronze Globe Valve for Cryogenic Service BB Series

Application

The BB Series globe valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance. Internal components are the identical with the SK Series and SKB Series.

Features

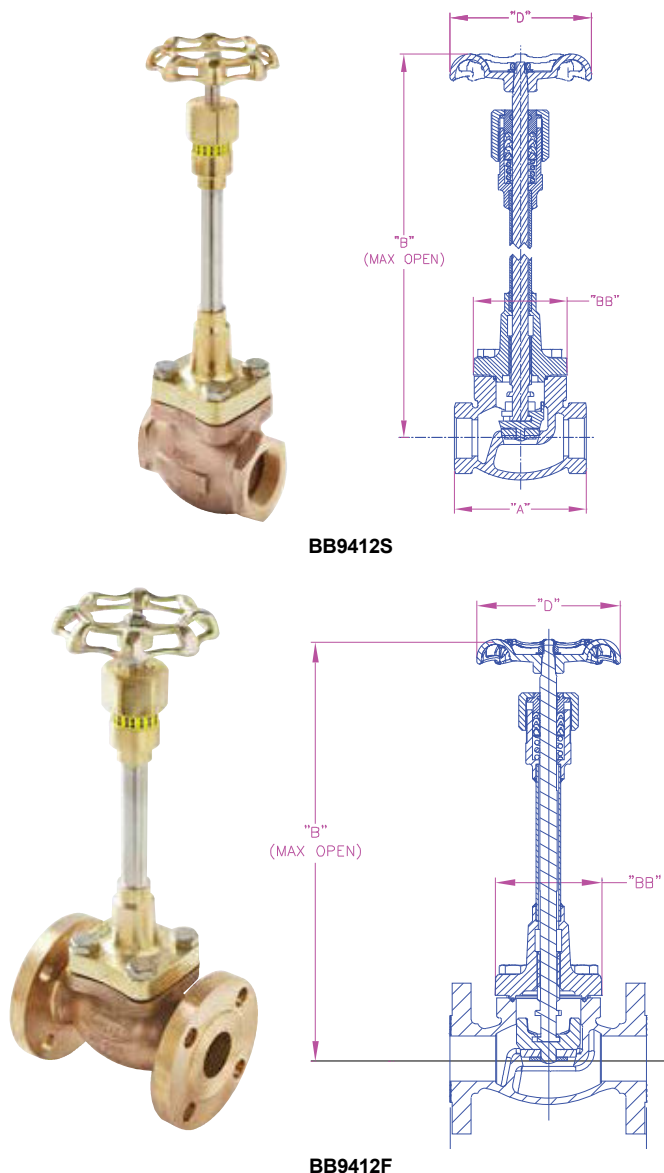
- Superior Flow: Provides high Cv for rapid and reliable loading and unloading.
- V-Ring spring loaded packing: provides extended service life without constant packing adjustment.
- Conical PCTFE Seat: provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life.
- Ideal for loading & unloading cryogenic bulk tanks and trucks. The 1½" & 2" valves are designed to be operator friendly, opening and closing completely with only four 360° rotations.
- Connections: NPT, SBT & Flange.
- Sizes: ¼" to 2".
- Bonnet Type: Bolted.
- Pressure Rating: 720 PSI (50 Bar)
- Temperature Rating: -325°F (-198°C) to +150°F (+65°C).
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations.
- Cleaned for Liquid Oxygen Service per CGA G-4.1

Materials

BodyBronze ASTM B61 C92200
Upper BonnetBrass ASTM B16 C36000
Lower Bonnet Brass ASTM B283 C37700
StemStainless Steel ASTM A582 S30300
SpringStainless Steel ASTM A313 S30200
Packing.....ASTM
Gasket.....PTFE 25% Glass Fill
Seat Disc.....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet ScrewsASTM B16 C36000
Handwheel.....Chromated Coated Ductile Iron ASTM A395

Ordering Information

Part Number	Size Inches	Size mm	Connection	A	B	D	BB	Cv	Weight
BB9402S	¼"	8	Silver Brazed Tube	2.68	14.40	3.00	2.00	1.7	8.30
BB9404S	½"	15		2.88				5.0	
BB9406S	¾"	20		3.55		4.00	2.66	9.4	
BB9408S	1"	25		3.75				14	
BB9412S	1½"	40		4.78	14.60	4.75	3.44	28.3	12.90
BB9416S	2"	50	Threaded NPT	5.88	16.21	5.25	4.06	53	21.60
BB9402T	¼"	8		2.68	14.40	3.00	2.00	1.7	8.30
BB9404T	½"	15		2.88				5.0	
BB9406T	¾"	20		3.55		4.00	2.66	9.4	
BB9408T	1"	25		3.75				14	
BB9412T	1½"	40	Flanged RF	4.78	14.60	4.75	3.44	28.3	12.90
BB9416T	2"	50		5.88	16.21	5.25	4.06	53	21.60
BB9412F	1½"	40		6.50	14.60	4.75	3.44	28.3	18.56
BB9416F	2"	50		8.00	16.21	5.25	4.06	53	30.00



Extended Bonnet Cryogenic Globe Valves BK and BKA Series Valves

Application

The BK and BKA Series valves are designed exclusively for the handling of cryogenic liquids on bulk storage tanks, transports, and pipelines. These globe valves provide positive shutoff and offer a long, low-maintenance service life. The valves are available with a variety of inlet and outlet connections and stem lengths. Certain BK valves are offered with brazed-in Schedule 5 and schedule 10 Stainless Steel Pipe Stubs.

Features

- CTFE seat disc and swivel seat design offer positive shutoff, minimal seat wear, and a long service life.
- Unique spring-loaded upper packing provides extended service life without constant packing adjustment
- One piece slip-on seat assembly for easy replacement.
- Each valve is cleaned and packaged for oxygen service per CGA G-4.1.
- Maximum working pressure is 600 psig CWP. (-196°C)
- Working temperature range is -320°F to +165°F. (196°C to +79°C)
- 100% Factory Tested

Materials

Body	Bronze
Body and Bonnet.....	Brass
Seat Disc.....	PCTFE
Seat Retainer Assembly	Brass
Stem and Bonnet Extension Tube.....	Stainless Steel
Packing Spring, Washer.....	Stainless Steel
Jam Ring and Pressure Seal Rings.....	PTFE
Upper Bonnet, Packing Gland.....	Brass
Handwheel.....	Aluminum for up to 1" valve size, Coated Malleable Iron for larger size

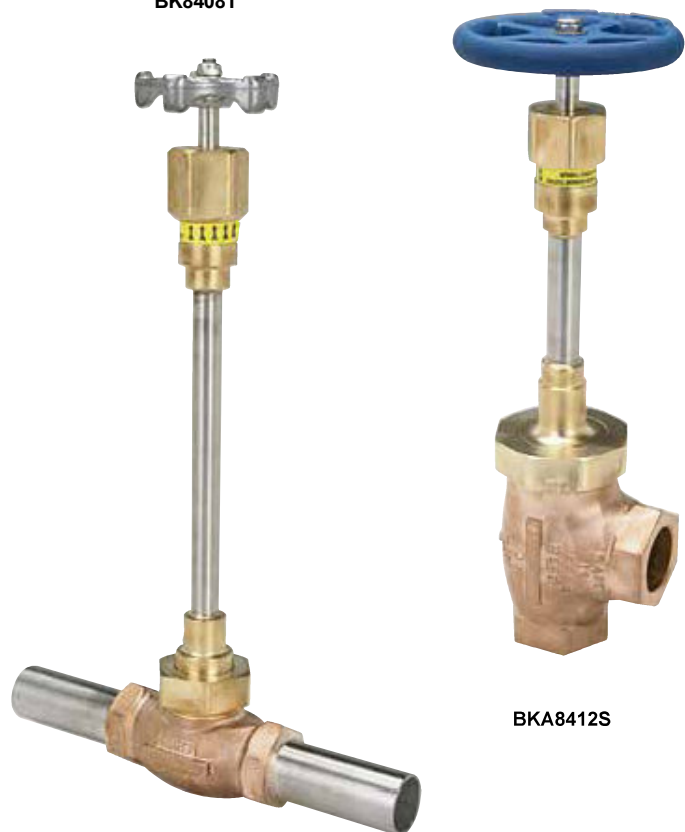
Bonnet Design

Union Bonnet for ½", ¾", 1" valve sizes and on both the 1" model BKA8408S and 1½" model BKA8412S angle valves. Bolted Bonnet design is used on the BK9410 (1¼), BK9412 (1½"), and BK9416 (2") models.



BK8408T

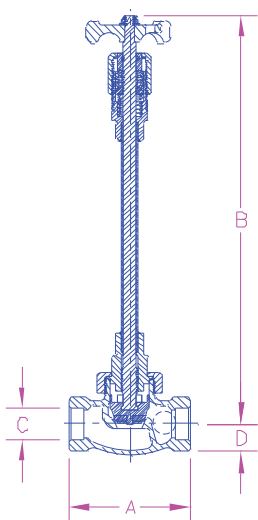
BK9412S



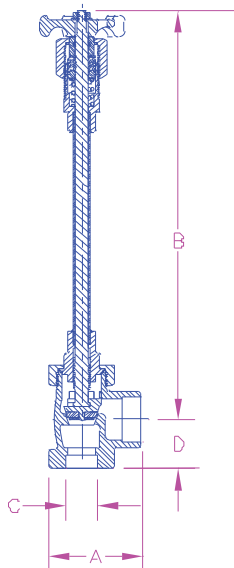
BKA9408AA

BKA8412S

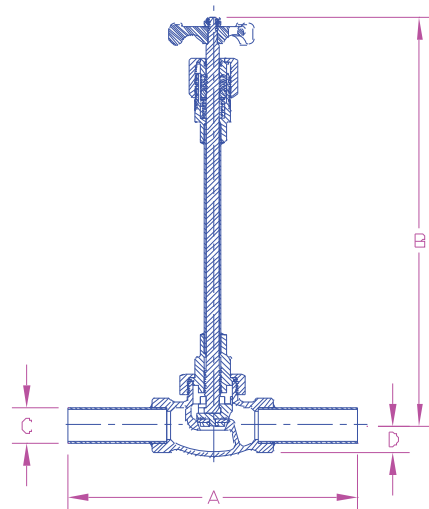
Extended Bonnet Cryogenic Globe Valves BK and BKA Series Valves



Straight Globe Valve



Angle Globe Valve



Straight Globe Valve with Pipe Stubs

Ordering Information

Part Number	Body Style	A Length	B Max Open (Approx)	C Inlet / Outlet Connections	D	C _v Factor			
BK8404S	Straight	3 11/16"	9 5/32"	.631"- .634"	1"	4.7			
BK8404T				1/2" F.NPT					
BK8404ST				.631"- .634"x 1/2" F.NPT					
BK9404S			14 1/2"	.631"- .634"	1"	4.7			
BK9404T		1/2" F.NPT							
BK9404AA		1/2" Sch5 Pipe							
BK9404PT-F30		1/2" Sch5 Pipe x 1/2" F.NPT							
BK9404ST		3 11/16"	.631"- .634"x1/2" F.NPT						
BK8406S		3 11/16"	9 5/32"	.881"- .884"	1"	6.7			
BK8406T			3/4" F.NPT						
BK9406S			14 1/2"	.881"- .884"	1"	6.7			
BK9406T				3/4" F.NPT					
BK9406AA	9.69	14.9							
BK8408S	Straight	4 5/16"	9 1/8"	1.131"-1.134"	1 1/8"	11.2			
BK8408T				1" F.NPT					
BK9408S			14 1/2"	1.131"-1.134"	1 1/8"				
BK9408T				1" F.NPT	1 1/8"				
BK9408AA		10 5/16"	1" Sch10 Pipe	1 1/6"	17.5				
BK9408PT-F30		7 5/16"	1" Sch5 Pipe x 1" F.NPT	1 1/8"					
BK9410S*		5 13/16"	16 7/16"	1.378"-1.380"		1 1/2"	25.1		
BK9412S*			16 9/16"	1.631"-1.634"					
BK9412T*				1 1/2" F.NPT					
BK9412AA				11 3/16"	1 1/2" Sch10 Pipe				
BK9412PT-F30		8 3/16"	1 1/2" Sch5 Pipe x 1 1/2" F.NPT						
BK9416S*		16"	16"	2.131" - 2.134"	1 5/8"	41			
BK9416AA				2" Sch5 Pipe					
BK9416T*				Straight	6"		2" F.NPT	1 5/8"	41
BK9416PT-F30					9"		2" Sch5 Pipe x 2" F.NPT		
BKA8408S	Angle	3 1/4"	9 5/11"	1.131" - 1.134" x 1.631" - 1.634"	1 3/4"	14.5			
BKA9408S			4 1/4"			14 5/8"	30.0		
BKA8412S		13"				1.631"-1.634"			

* Valves with bolted bonnet design.