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 identical with the SKB Series. The BB Series globe valves are offered with brazed-in schedule 10 and 40 stainless steel pipe stubs. Also available in short stem version.

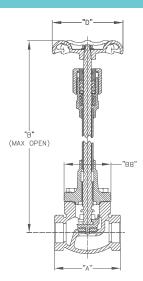
Features

- 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 barg)
- Temperature Rating: $-325^{\circ}F$ ($-198^{\circ}C$) to $+150^{\circ}F$ ($+65^{\circ}C$).
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations.
- Cleaned for Oxygen Service per CGA G-4.1

Materials

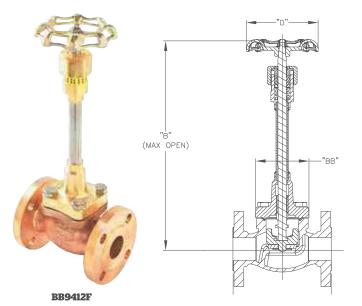
Bronze ASTM B61
Brass ASTM B16
Brass ASTM B283
Stainless Steel ASTM A313
PTFE
PTFE 25% Glass Fill
PCTFE ASTM D1430
Brass ASTM B16
Stainless Steel ASTM A320
Chromated Coated Ductile Iron ASTM A395







BB9412T



Ordering Information

Part Number	Size Inches	Size mm	Connection	A	В	D	BB	C _V	Weight lbs.
BB9402S	1/4"	8		2.68	3.00	2.00	2.00	1.7	8.30
BB9404S	1/2"	15		2.88		3.00	2.00	5.0	
BB9406S	3/4"	20	Silver Brazed Tube	3.55		4.00	2.66	9.4	
BB9408S	1"	25	Silver Brazed Tube	3.75		4.00		14	
BB9412S	1½"	40		4.78	14.60	4.75	3.44	28.3	12.90
BB9416S	2"	50		5.88	16.21	5.25	4.06	53	21.60
BB9402T	1/4"	8		2.68		3.00	2.00	1.7	8.30
BB9404T	1/2"	15		2.88	14.40			5.0	
BB9406T	3/4"	20	Threaded NPT	3.55	14.40			9.4	
BB9408T	1"	25	Threaded NPT	3.75				14	
BB9412T	1½"	40		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	Flanged RF	6.50	14.60	4.75	3.44	28.3	18.56
BB9416F	2"	50	Flanged RF	8.00	16.21	5.25	4.06	53	30.00

Bronze Globe Valve for Cryogenic Service with Pipe Ends BB Series

Application

The BB Series globe valves with pipe ends 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 identical with the SKB Series.

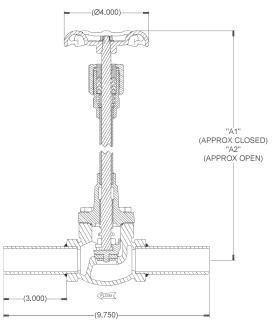
Features

- 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.
- · Connections: SS pipe extension SCH 10 and SCH 40.
- Sizes: ½" to 2".
- Bonnet Type: Bolted.
- Pressure Rating: 720 psi (50 barg)
- Temperature Rating: -320°F (-196°C) to +150°F (+65°C).
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations.
- Cleaned for Oxygen Service per CGA G-4.1

Materials

Body	Bronze ASTM B61
Upper Bonnet	Brass ASTM B16
Lower Bonnet	Brass ASTM B283
Stem	
Spring	Stainless Steel ASTM A313
Packing	PTFE
Gasket	PTFE 25% Glass Fill
Seat Disc	PCTFE ASTM D1430
Seat Retainer	Brass ASTM B16
Bonnet Screws	Stainless Steel ASTM A320
Handwheel	. Chromated Coated Ductile Iron ASTM A395





Ordering Information

Part Number	Size Inches	Size mm	Connection	A1	A2		С	D	Cv	Weight lbs.
BBS9404AA	1/2"	15		13.9	14.4	3.00	8.88	8.88	5	
BBS9406AA	3/4"	20		13.9	14.4	4.00	9.55	2.65	9.4	9.13
BBS9408AA	1"	25	SCH 10 Pipe	13.9	14.4	4.00	9.75	2.65	14] 9.13
BBS9412AA	1/2"	40		13.9	14.4	4.75	10.79	3.55	28.3	14.19
BBS9416AA	2"	50		15.27	16.21	5.25	11.88	4.05	53	23.76
BBS9404BB	1/2"	15		13.9	14.4	3.00	8.88	8.88	5	
BBS9406BB	3/4"	20		13.9	14.4	4.00	9.55	2.65	9.4	9.22
BBS9408BB	1"	25	SCH 40 Pipe	13.9	14.4	4.00	9.75	2.65	14	9.22
BBS9412BB	1/2"	40		13.9	14.4	4.75	10.79	3.55	28.3	14.48
BBS9416BB	2"	50		15.27	16.21	5.25	11.88	4.05	53	24.19

Bronze Globe Valve Short Stem for Cryogenic Service BBS 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 identical with the SKB Series.

Features

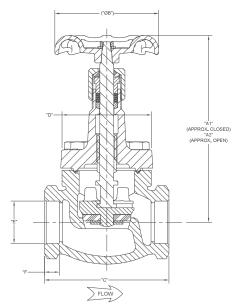
- Superior Flow: Provides high Cv for rapid and reliable loading and
- Designed with the unique Kold-Seal.
- Conical PCTFE Seat: provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life.
- Ideal for loading & unloading cryogenic bulk tanks and trucks. The 11/2" & 2" valves are designed to be operator friendly, opening and closing completely with only four 360° rotations.
- Connections: NPT & SBT.
- Sizes: 1/4" to 2".

- Bonnet Type: Bolted.
 Pressure Rating: 720 psig (50 barg)
 Temperature Rating: -320°F (-196°C) to +150°F (+65°C).
 Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations.
- Cleaned for Oxygen Service per CGA G-4.1





BBS9404S



Materials

Body	Bronze ASTM B61
Upper Bonnet	Brass ASTM B16
Lower Bonnet	Brass ASTM B283
Stem	Stainless Steel ASTM A582
Spring	Stainless Steel ASTM A313
Packing	PTFE
Gasket	PTFE 25% Glass Fill
Seat Disc	PCTFE ASTM D1430
Seat Retainer	Brass ASTM B16
Bonnet Screws	Stainless Steel ASTM A320
Handwheel	Chromated Coated Ductile Iron ASTM A395

Ordering Information

Part Number	Size Inches	Size mm	Connection	A1	A2	В	С	D	E	F	С	Weight lbs.
BBS9402S	1/4"			5.75	6.24	3.00	8	2.00	0.380	0.300	1.7	
BBS9404S	1/2"	15		5.75	6.24	3.00	2.88	2.00	0.629	0.400	5.0	5.2
BBS9406S	3/4"	20	Silver Brazed	6.07	6.6	4.00	3.55	2.60	0.880	0.400	9.4] 5.2
BBS9408S	1"	25	Tube	6.07	6.6	4.00	3.75	2.60	1.130	0.500	14]
BBS9412S	1½"	40]	7.2	7.93	4.75	4.79	3.47	1.631	0.563	28.3	7.25
BBS9416S	2"	50		8.85	9.84	4.75	5.87	3.96	0.380	0.300	53	11.96
BBS9402T	1/4"	8		5.75	6.24	3.00	8	2.00	0.380	0.300	1.7	
BBS9404T	1/2"	15		5.75	6.24	3.00	2.88	2.00	0.629	0.400	5.0]
BBS9406T	3/4"	20		6.07	6.6	4.00	3.55	2.60	0.880	0.400	9.4	5.2
BBS9408T	1"	25	Threaded NPT	6.07	6.6	4.00	3.75	2.60	1.130	0.500	14]
BBS9412T	11/2"	40		7.2	7.93	4.75	4.79	3.47	1.631	0.563	28.3	7.25
BBS9416T	2"	50		8.85	9.84	4.75	5.87	3.96	2.130	0.630	53	11.96

