

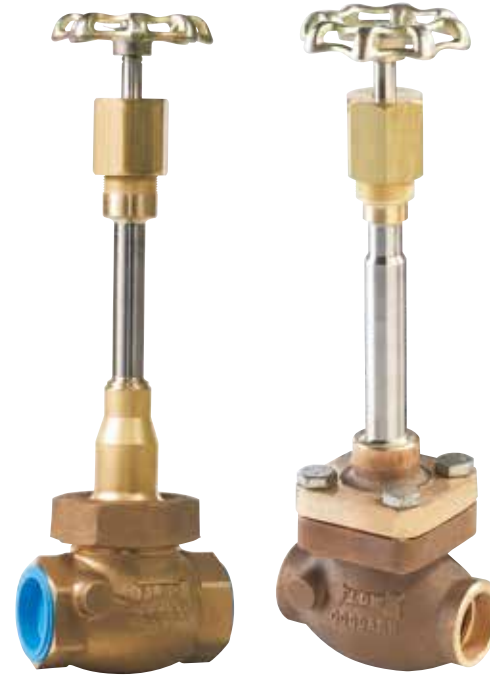
Bronze Globe Valve for Cryogenic Service 222 Series Including 226LL, 226GF, 226ULL, 226BLL, 222X, 226LL, 226BLL

Application

The 222 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.

Features

- **Top Entry:** This union bonnet valve can be permanently installed in the line and serviced from the top. The stainless steel tube prevents stem distortion. Also available in bolted bonnet configuration.
- **Construction:** Bronze cast body and bonnet
Rugged construction for long life
- **Designed with the unique Kold-Seal™** and high Cv. standard PTFE seat design assures bubble tight seating and high cycle life
- Oxygen cleaned per CGA G-4.1
- **Sizes:** ¼" through 3" (8mm through 80mm)
- **Ends:** Threaded (FNPT), Sil Braze Tube (SBT), Silver Braze Pipe and back brazed threaded pipe nipples
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -320°F to 150°F (-196°C to +65°C)
- **Pressure Rating:** (Cold, Non-shock)
400 and 600 psig (28 and 42 barg)
Sizes 1½" to 3" PED approved
- **Kold-Seal™ Technology assures tight seal preventing cryogen gas loss**
- **Extended stem suitable for cold box, transport vehicles, pipelines, and customer service applications**
- **Live (LL) loaded option improves life of asset and minimizes service costs**
- **Replaceable top works equates to low maintenance costs**



B-226ULL

B-226BLL



Ordering Information

222X

Bronze Globe Valves, Extended Stem - Conical Seat, 400 psig (28 barg) Cold Working Pressure

Threaded Ends

Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN						
B-222X-2T4	¼	8	2½ (67)	8¾ (213)	2¾ (60)	4 ¹³ / ₁₆ (122)	1.50 (0.70)	1.30 (1.12)
B-222X-4T4	½	15		14 ⁹ / ₁₆ (395)		12 ³ / ₁₆ (310)	1.65 (0.75)	3.25 (2.81)
B-222X-4T4A			¾	20	8¾ (219)	4¾ (124)	3.00 (1.40)	6.25 (5.40)
B-222X-6T4	15 ¹³ / ₁₆ (401)	12 (305)			3.15 (1.43)			
B-222X-8T4	1	25	3¾ (95)	10½ (267)	3 (76)	6½ (165)	4.00 (1.80)	10.00 (8.65)
B-222X-8T4A				16 (407)		12 (305)	4.20 (1.90)	
B-222X-12T4	1½	40	4¾ (121)	14 ¹⁵ / ₁₆ (379)	4 (102)	9 ¹¹ / ₁₆ (246)	7.75 (3.50)	26.00 (22.49)
B-222X-12T4A				15 ⁷ / ₁₆ (468)		13½ (343)	8.00 (3.63)	
B-222X-16T4	2	50	5¾ (146)	15¾ (384)	4¾ (121)	9 ¹¹ / ₁₆ (246)	12.50 (5.70)	45.00 (38.92)
B-222X-16T4A				19¾ (499)		14 ³ / ₁₆ (361)	12.75 (5.78)	
B-222X-20T4	2½	65	8½ (216)	22¾ (578)	8 (203)	16 (406)	61.00 (27.70)	50.00 (43.25)
B-222X-24T4	3	80					61.00 (27.70)	100.00 (86.5)

Silver Brazed Ends

Part Number	Size		"B" Inches (mm)	"D" Inches (mm)	"E" Inches (mm)	"F" Inches (mm)	"G" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN								
B-222X-4S4	½	15	9¾ (213)	2¾ (60)	¾ (10)	¾ ()	¾ (16)	4 ¹³ / ₁₆ (122)	2.00 (0.90)	3.25 (2.81)
B-222X-6S4	¾	20	8¾ (219)	2¾ (70)	7 ¹ / ₁₆ (11)	¾ (95)	7 ¹ / ₁₆ (22)	4¾ (124)	2.75 (1.30)	6.25 (5.40)
B-222X-8S4	1	25	10½ (267)	3 (76)	7 ¹ / ₁₆ (11)	¾ (95)	1 ⁵ / ₁₆ (33)	6½ (165)	3.75 (1.70)	10.00 (8.65)
B-222X-12S4	1½	40	14 ¹⁵ / ₁₆ (379)	4 (102)	¾ (16)	5¼ (133)	1¾ (41)	9 ¹¹ / ₁₆ (246)	7.25 (3.30)	26.00 (22.49)
B-222X-16S4	2	50	15¾ (384)	4¾ (121)	1 ¹¹ / ₁₆ (17)	6½ (165)	2¾ (54)	9 ¹¹ / ₁₆ (246)	11.50 (5.20)	45.00 (38.92)
B-222X-24S4	3	80	22¾ (578)	8 (203)	1 ³ / ₁₆ (21)	10½ (267)	3¾ (79)	16 (406)	58.00 (26.40)	100.00 (86.5)

SB-222X

Stainless Steel Body, Bronze Topworks, Conical Seat, 450 psig Cold Working Pressure

Part Number	Size		"B" Inches (mm)	"D" Inches (mm)	"E" Inches (mm)	"F" Inches (mm)	"G" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN								
SB00222X-12SW	1½	40	14 ¹⁵ / ₁₆ (372)	4 (102)	½ (13)	4¾ (121)	1 ¹⁵ / ₁₆ (49)	9 ¹¹ / ₁₆ (246)	7.75 (3.50)	26.00 (22.49)

Bronze Globe Valve for Cryogenic Service 222 Series Including 226LL, 226GF, 226ULL, 226BLL, 222X, 226LL, 226BLL

Ordering Information

226LL

Bronze Globe Valves, Live Load Packing, Extended Stem, 600 psig (42 barg) Cold Working Pressure
Threaded Ends

Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN							
B-0226LL-2T6	¼"	8	2 ⅝ (67)	8 ¹¹ / ₁₆ (221)	2 ⅝ (60)	4 ¹³ / ₁₆ (122)	122	1.50 (0.68)	1.30 (1.12)
B-0226LL-3T6	⅜"	10						1.50 (0.68)	2.40 (2.07)
B-0226LL-4T6	½"	15						2.5 (1.13)	3.25 (2.81)
B-0226LL-6T6	¾"	20	4 ¼ (108)	10 ½ (267)	3 (76)	6 ½ (165)	165	3.2 (1.45)	6.25 (5.40)
B-0226LL-8T6	1"	25	3 ¾ (95)					5.3 (2.40)	10.00 (6.65)

Silver Brazed End

Part Number	Size		"B" Inches (mm)	"D" Inches (mm)	"E" Inches (mm)	"F" Inches (mm)	"G" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN								
B-0226LL-2S6	½"	15	8 ¹¹ / ₁₆ (221)	2 ⅝ (60)	⅜ (10)	3 ¼ (83)	⅝ (16)	4 ¹³ / ₁₆ (122)	2.00 (0.90)	3.25 (2.81)
B-0226LL-3S6	¾"	20	10 ½ (267)	3 (76)	7 ⁷ / ₁₆ (11)	4 ¼ (108)	⅞ (22)	6 ½ (165)	2.75 (1.30)	6.25 (5.40)
B-0226LL-4S6	1"	25					1 ⅞ (29)		5.8 (2.63)	10.00 (6.65)

226ULL

Bronze Globe Valves, Live Loaded Packing - Union Bonnet, Extended Stem, 600 psig (42 barg) Cold Working Pressure
Threaded Ends

Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN						
B-226ULL-12T6	1 ½"	40	4 ¾ (121)	14 ⅝ (371)	4 (102)	9 ¹¹ / ₁₆ (246)	7.75 (3.50)	26.00 (22.49)
B-226ULL-16T6	2"	50	5 ¾ (146)	15 ⅝ (384)	4 ¾ (121)		12.50 (5.70)	45.00 (38.92)

Silver Brazed End

Part Number	Size		"B" Inches (mm)	"D" Inches (mm)	"E" Inches (mm)	"F" Inches (mm)	"G" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN								
B-226ULL-12S6	1 ½"	40	14 ⅝ (371)	4 (102)	⅝ (16)	5 ¼ (133)	1 ⅞ (41)	9 ¹¹ / ₁₆ (246)	7.25 (3.30)	26.00 (22.49)
B-226ULL-16S6	2"	50	15 ⅝ (384)	4 ¾ (121)	1 ¹¹ / ₁₆ (17)	6 ½ (165)	2 ⅞ (54)		11.50 (5.20)	45.00 (38.92)

226XGF

Bronze Globe Valves, Extended Stem - Conical Seat Grafoil® Packing, Gasket and PFA Seat
600 psig (42 barg) Cold Working Pressure Temperature Range -325°F to +300°F (-198°C to +149°C)
Threaded Ends

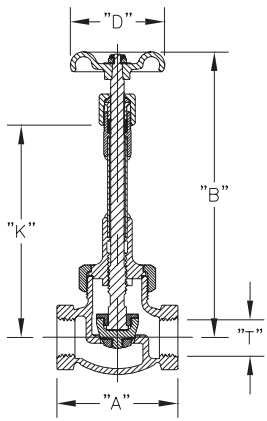
Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN						
VB-226XGF-4T6	½"	15	2 ⅝ (67)	8 ¼ (209)	2 ⅝ (60)	4 ¹³ / ₁₆ (122)	1.50 (0.70)	3.25 (2.81)
VB-226XGF-6T6	¾"	20	3 ³ / ₁₆ (81)	8 ⅝ (219)	2 ¾ (70)		3.00 (1.40)	6.25 (5.40)
VB-226XGF-8T6	1"	25	3 ¾ (95)	10 ⅝ (263)	3 (76)	6 ½ (165)	4.00 (1.80)	10.00 (8.65)
VB-226XGF-12T6	1 ½"	40	4 ¾ (121)	15 ¼ (387)	3 (76)	7 ½ (165)	7.75 (3.50)	26.00 (22.49)

226BLL

Bronze Globe Valves, Live Loaded Packing - Bolted Bonnet, Extended Stem, 600 psig (42 barg) Cold Working Pressure
Threaded Ends

Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN						
B-226BLL-12T6	1 ½"	40	4 ¾ (121)	14 ⅝ (371)	4 (101)	9 ¹¹ / ₁₆ (246)	7.75 (3.50)	26.00 (22.49)
B-226BLL-16T6	2"	50	5 ¾ (146)	14 ¹⁵ / ₁₆ (379)	4 ¾ (121)		12.50 (5.70)	45.00 (38.92)

Bronze Globe Valve for Cryogenic Service 222 Series Including 226LL, 226GF, 226ULL, 226BLL, 222X, 226LL

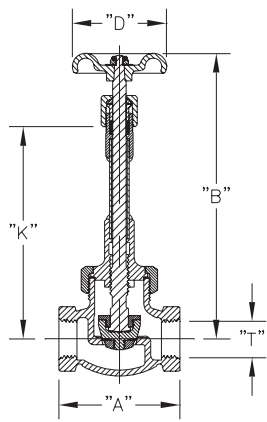


222X

Pressure Rating 400 psig (28 barg)

Temperature Rating -325°F to +150°F (-198°C to +65°C)

Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4"	8	2.63"	67	8.38"	213	2.38"	60	1/4"	6	4.8"	122
1/2"	15			15.54"	395			1/2"	13		
3/4"	20	3.19"	81	8.63"	219	2.75"	70	3/4"	19	4.9"	124
				15.79"	401					12"	305
1"	25	3.75"	95	10.50"	267	3"	76	1"	25	6.5"	165
				16.01"	407					12"	05
1 1/2"	40	4.75"	121	14.63"	372	4"	102	1 1/2"	38	9.7"	246
				18.44"	468					13.5"	343
2"	50	5.75"	146	15.13"	384	4.75"	121	2"	51	9.7"	246
				22.43"	570					14.2"	361
2 1/2"	65	8.5"	216	22.75"	578	8"	203	2 1/2"	64	16"	406
3"	80							3"	76		

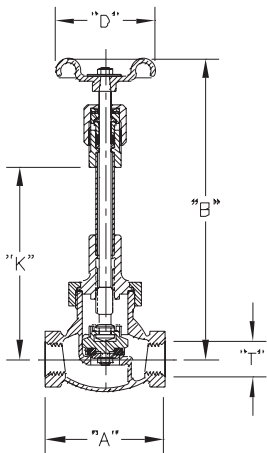


SB-222X

Pressure Rating 400 psig (28 barg)

Temperature Rating -325°F to +150°F (-198°C to +65°C)

Size		"A"		"B"		"D"		"BB"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1 1/2"	40	4 3/4"	121	14 3/8"	372	4"	102	3"	76	9.7"	246



226LL

Pressure Rating 600 psig (42 barg)

Temperature Rating +150°F to -325°F (+65°C to -198°C)

Dimensional Data

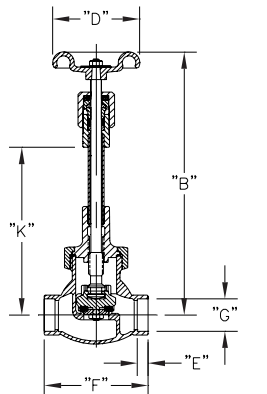
Threaded Ends

Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4"	8	2 5/16"	59	7 9/16"	192	2"	51	1/4"	6	4 19/32"	117
3/8"	10							3/8"	10		
1/2"	15	2 5/8"	67	8 1/4"	209	2 3/8"	61	1/2"	13	4 7/8"	124
3/4"	20	3 3/16"	81	8 5/8"	219	2 3/4"	70	3/4"	19	4 13/16"	122
1"	25	3 3/4"	95	10 1/2"	267	3"	76	1"	25	6 1/2"	165

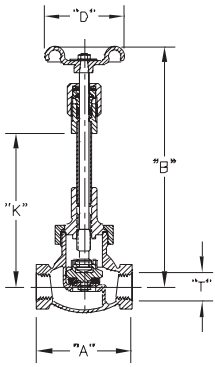
*Bolted Bonnet

Sil Brazed Ends

Size		"B"		"D"		"E"		"F"		"G"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/2"	15	8 1/4"	209	2 5/8"	60	3/8"	9	3 1/4"	82	.63	16	4 7/8"	124
3/4"	20	8 5/8"	219	2 3/4"	70	1 3/32"	10	3 3/4"	83	.88	22	4 13/16"	122
1"	25	10 1/2"	267	3"	76	7/16"	11	4 1/4"	108	1.13	29	6 1/2"	165



Bronze Globe Valve for Cryogenic Service 222 Series Including 226LL, 226GF, 226ULL, 222X, 226LL



226ULL

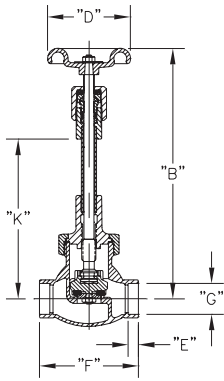
Pressure Rating 600 psig (42 barg)

Temperature Rating -325°F to +150°F (-198°C to +56°C)

Dimensional data

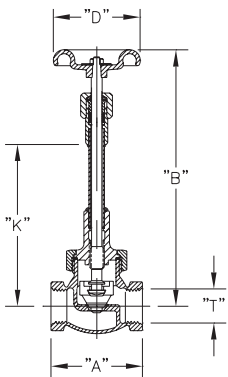
Threaded Ends

Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	4¾"	121	14⅝"	372	4"	102	1½"	38	9 ¹¹ / ₁₆ "	246
2"	50	5¾"	146	15⅝"	384	4¾"	121	2"	51		



SiI Brazed End

Size		"B"		"D"		"E"		"F"		"G"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	14⅝"	372	4"	102	⅝"	16	5¼"	133	1.63"	41	9 ¹¹ / ₁₆ "	246
2"	50	15⅝"	384	4¾"	121	2 ¹ / ₂₃ "	16	6½"	165	2.13"	54		



226XGF

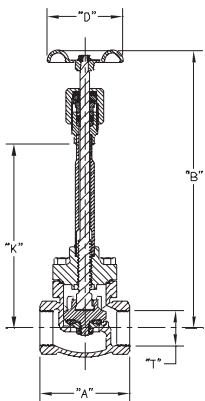
Pressure Rating 600 psig (42 barg)

Temperature Rating -325°F to +300°F (-198°C to +149°C)

Dimensional data

Threaded Ends

Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	2⅝"	67	8¼"	209	2⅝"	60	½"	13	4⅞"	124
¾"	20	3⅜"	81	8⅝"	219	2¾"	70	¾"	19	4 ¹³ / ₁₆ "	122
1"	25	3¾"	95	10½"	267	3"	76	1"	25	6½"	165



226LL Threaded Ends - Bolted Bonnet

Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	4¾"	121	14⅝"	371	4"	101	1½"	38	9 ¹¹ / ₁₆ "	246
2"	50	5¾"	146	14 ¹⁵ / ₁₆ "	379	4¾"	121	2"	51		