

Cryogenic Shut-Off Valves

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.



B-226ULL-12T6

222X BRONZE GLOBE VALVES, EXTENDED STEM - CONICAL SEAT, 400 PSIG (28 BARG) COLD WORKING PRESSURE THREADED ENDS

Part Number	Size		Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN		
B-222X-2T4	1/4	8	1.50 (0.70)	1.30 (1.12)
B-222X-4T4	1/2	15	1.50 (0.70)	3.25 (2.81)
B-222X-4T4A			1.65 (0.75)	
B-222X-6T4	3/4	20	3.00 (1.40)	6.25 (5.40)
B-222X-6T4A			3.15 (1.43)	
B-222X-8T4	1	25	4.00 (1.80)	10.00 (8.65)
B-222X-8T4A			4.20 (1.90)	
B-222X-12T4	1-1/2	40	7.75 (3.50)	26.00 (22.49)
B-222X-12T4A			8.00 (3.63)	
B-222X-16T4	2	50	12.50 (5.70)	45.00 (38.92)
B-222X-16T4A			12.75 (5.78)	
B-222X-20T4	2-1/2	65	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		Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN		
B-222X-4S4	1/2	15	2.00 (0.90)	3.25 (2.81)
B-222X-6S4	3/4	20	2.75 (1.30)	6.25 (5.40)
B-222X-8S4	1	25	3.75 (1.70)	10.00 (8.65)
B-222X-12S4	1-1/2	40	7.25 (3.30)	26.00 (22.49)
B-222X-16S4	2	50	11.50 (5.20)	45.00 (38.92)
B-222X-24S4	3	80	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		Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN		
SB00222X-12SW	1-1/2	40	7.75 (3.50)	26.00 (22.49)

226LL BRONZE GLOBE VALVES, LIVE LOAD PACKING, EXTENDED STEM, 600 PSIG (42 BARG) COLD WORKING PRESSURE THREADED ENDS

Part Number	Size		Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN		
B-0226LL-2T6	1/4"	8	1.50 (0.68)	1.30 (1.12)
B-0226LL-3T6	3/8"	10	1.50 (0.68)	2.40 (2.07)
B-0226LL-4T6	1/2"	15	2.5 (1.13)	3.25 (2.81)
B-0226LL-6T6	3/4"	20	3.2 (1.45)	6.25 (5.40)
B-0226LL-8T6	1"	25	5.3 (2.40)	10.00 (6.65)

SILVER BRAZED END

Part Number	Size		Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN		
B-0226LL-2S6	1/2	15	2.00 (0.90)	3.25 (2.81)
B-0226LL-3S6	3/4	20	2.75 (1.30)	6.25 (5.40)
B-0226LL-4S6	1	25	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		Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN		
B-226ULL-12T6	1-1/2	40	7.75 (3.50)	26.00 (22.49)
B-226ULL-16T6	2"	50	12.50 (5.70)	45.00 (38.92)

SILVER BRAZED END

Part Number	Size		Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN		
B-226ULL-12S6	1-1/2	40	7.25 (3.30)	26.00 (22.49)
B-226ULL-16S6	2	50	11.50 (5.20)	45.00 (38.92)

226BLL BRONZE GLOBE VALVES, LIVE LOADED PACKING - BOLTED BONNET, EXTENDED STEM, 600 PSIG (42 BARG) COLD WORKING PRESSURE THREADED ENDS

Part Number	Size		Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN		
B-226BLL-12T6	1-1/2	40	7.75 (3.50)	26.00 (22.49)
B-226BLL-16T6	2	50	12.50 (5.70)	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		Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN		
VB-226XGF-4T6	1/2	15	1.50 (0.70)	3.25 (2.81)
VB-226XGF-6T6	3/4	20	3.00 (1.40)	6.25 (5.40)
VB-226XGF-8T6	1	25	4.00 (1.80)	10.00 (8.65)
VB-226XGF-12T6	1-1/2	40	7.75 (3.50)	26.00 (22.49)

Cryogenic Shut-Off Valves

BRONZE GLOBE VALVE FOR CRYOGENIC SERVICE BB SERIES

Application

The BB Series globe valves are designed for handling 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 1-1/2" & 2" valves are designed to be operator friendly, opening and closing completely with only four 360° rotations.
- Connections: NPT, SBT & Flange
- Sizes: 1/4" to 2" • Bonnet Type: Bolted
- Pressure Rating: 720 psig (50 barg)
- 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 Oxygen Service per CGA G-4.1



BB9412F

Part Number	Size Inches	Size DN	Connection	Cv	Kv	Weight lbs.	Weight kg.
BB9402S	1/4"	8	Silver Brazed Tube	1.7	1.47	8.30	3.7
BB9404S	1/2"	15		5.0	4.30		
BB9406S	3/4"	20		9.4	8.1		
BB9408S	1"	25		14.0	12.10		
BB9412S	1-1/2"	40		28.3	21.60	12.90	5.8
BB9416S	2"	50	53.0	47.41	21.60	9.8	
BB9402T	1/4"	8	Threaded NPT	1.7	1.47	8.30	3.7
BB9404T	1/2"	15		5.0	4.30		
BB9406T	3/4"	20		9.4	8.1		
BB9408T	1"	25		14.0	12.10		
BB9412T	1-1/2"	40		28.3	21.60	12.90	5.8
BB9416T	2"	50		53.0	47.41	21.60	9.8
BB9412F	1-1/2"	40	Flanged RF	28.3	21.60	18.56	8.4
BB9416F	2"	50		53.0	47.41	30.00	13.6

Cryogenic Shut-Off Valves

EXTENDED BONNET BRONZE GATE VALVE FOR CRYOGENIC SERVICE 322 AND 326 SERIES

Application

The RegO Goddard 322 and 326 Series gate valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ASU plants and piping configurations. Compatible with oxygen, nitrogen, CO₂, and argon.

Features

- Top Entry: This union bonnet valve can be permanently installed in the line and serviced from the top • Sizes: 1/2" - 3" (15mm - 80mm)
- Ends: Threaded (FNPT), Sil Braze Tube (SBT), Silver Braze Pipe (SBP) or with stainless steel pipe nipples brazed in
- Service: Liquefied and vaporized atmospheric gases, LNG
- Temperature Rating: -320°F to +150°F (-196°C + 65°C)
- Pressure Rating: (Cold, Non-shock) 322 Series 400 psig (28 barg) 326 Series 600 psig (42 barg)
- Cleaned for Oxygen Service per CGA G-4.1
- Designed to MSS SP-80 and ASME B31.3
- Series 1.5" to 3" PED Approved per EN 10204, 3.1
- Ideal for cryogenic supply and storage handling applications.
- Straight-through flow for highest CV rating in the industry.
- Also available with GRAFOIL® packing



B-322-24T4

322 SERIES BRONZE GATE VALVES 400 PSIG (28 BARG) COLD WORKING PRESSURE

Part Number	NPT Size Inches	NPT Size DN	Ends	Weight Lbs.	Weight Kg	Estimated Cv (Kv)
B-322-20T4	2-1/2"	65	Threaded	19	8.64	372.00 (321.78)
B-322-24T4	3"	80		28	121.73	588.00 (508.62)

Part Number	SBT Size Inches*	SBT Size DN	Ends	Weight Lbs.	Weight Kg	Estimated Cv (Kv)
B-322-4S4	1/2"	15	Silver Braze	1.75	0.8	19.80 (17.12)
B-322-6S4	3/4"	20		2.25	1.02	36.00 (31.14)
B-322-8S4	1"	25		3.5	1.59	60.80 (52.59)
B-322-12S4	1-1/2"	40		7.5	3.41	152.00 (131.48)
B-322-16S4	2"	50		11.25	5.11	245.00 (211.92)
B-322-20S4	2-1/2"	65		17	7.73	372.00 (321.78)
B-322-24S4	3"	80		24	10.91	588.00 (508.62)

*Nominal Size

326 SERIES BRONZE GATE VALVES 600 PSIG (42 BARG) COLD WORKING PRESSURE

Part Number	NPT Size Inches	NPT Size DN	Ends	Weight Lbs.	Weight Kg	Estimated Cv (Kv)
B-326-4T6	1/2"	15	Threaded	1.75	0.8	19.80 (17.12)
B-326-6T6	3/4"	20		2.25	1.02	36.00 (31.14)
B-326-8T6	1"	25		4	1.82	60.80 (52.59)
B-326-12T6	1-1/2"	40		8.25	3.75	152.00 (131.48)
B-326-16T6	2"	50		12.5	5.68	245.00 (211.92)



Cryogenic Shut-Off Valves

BRONZE/STAINLESS STEEL BODY GLOBE VALVE FOR CRYOGENIC SERVICE SKB SERIES

Application

The SKB Series globe valves are designed for the handling of cryogenic liquids through trailer, bulk tanks, and piping configurations.

Time- tested spring- loaded stem packing and superior seat design provide for long life and easy maintenance. Internal components are the same as the BB series.

Features

- Superior Flow: Provides high Cv for rapid and reliable loading and unloading
- Top Entry: This valve can be permanently installed in the line and serviced from the top. Bolted bonnet style provides secure integrity.
- Conical PCTFE Seat provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life
- Stem Packing: V-Ring spring loaded packing provides extended service life without constant packing adjustment
- Ends: Buttweld and Socket Weld
- Service: Liquefied and vaporized atmospheric gases, LNG for trailers, bulk tanks ISO containers and piping configurations.
- Sizes: 1/4" to 2" • Bonnet Type: Bolted
- Pressure Rating: (cold, Non-Shock) 720 psig (50 barg)
- 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 Oxygen Service per CGA G-4.1

SKB9406BW



Part Number	Size Inches	Size DN	Connection	Cv (Kv)
SKB9402BW	1/4"	8	Butt Weld	1.7 (1.47)
SKB9402SW			Socket Weld	
SKB9404BW	1/2"	15	Butt Weld	5.0 (4.30)
SKB9404SW			Socket Weld	
SKB9406BW	3/4"	20	Butt Weld	9.4 (8.10)
SKB9406SW			Socket Weld	
SKB9408BW	1"	25	Butt Weld	14.0 (12.10)
SKB9408SW			Socket Weld	
SKB9412BW	1-1/2"	40	Butt Weld	28.3 (21.60)
SKB9412SW			Socket Weld	
SKB9416BW	2"	50	Butt Weld	53 (45.80)
SKB9416SW			Socket Weld	

S.S. GLOBE VALVE FOR HYDROGEN CRYO SERVICE 231 SERIES

STAINLESS BODY 400 PSIG (28 BARG) SOCKET WELD ENDS

Part Number	Valve size Inches	Valve Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv (Kv)
S-231-2S4	1/4"	8	Socket Weld	6	2.72	1.30 (1.12)
S-231-4S4	1/2"	15				3.90 (3.37)
S-231-6S4	3/4"	20		7.10 (6.14)		
S-231-8S4	1"	25		10.50 (9.08)		
S-231-12S4	1-1/2"	40		15	6.8	25.00 (21.62)

STAINLESS BODY 300 PSIG (20 BARG) BUTT WELD ENDS

Part Number	Valve size Inches	Valve Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv (Kv)
S-231-4WA	1/2"	15	Butt Weld	6	2.72	3.90 (3.37)
S-231-8WA	1"	25		10	4.54	10.50 (9.08)
S-231-12WA	1-1/2"	40		15	6.8	25.00 (21.62)

S-231-12S4



Cryogenic Shut-Off Valves

S.S.GLOBE VALVES FOR CRYO SERVICE 210 SERIES

STAINLESS BODY RF FLANGE ENDS

150# Part Number	300# Part Number	Valve Size		Ends	150# Weight		300# Weight		Estimated C v
		Inches	MM		Lbs.	Kg.	Lbs.	Kg.	
GS-00210W-8F	GS-00210W-8F3	1"	25 mm	Flange	15	6.80	20	9.07	11.50
GS-00210W-16F	GS-00210W-16F3	2"	50 mm		35	15.88	40	18.14	40.00
GS-00210W-24F	GS-00210W-24F3	3"	80 mm		65	29.48	70	31.75	60.00
GS-00210W-32F	GS-00210W-32F3	4"	100 mm		95	43.09	100	45.35	175

GS-210W-32F3



STAINLESS BODY BUTT WELD, SOCKET WELD, THREADED ENDS

150# Part Number	300# Part Number	Valve Size		Ends	150# Weight		300# Weight		Estimated C v
		Inches	MM		Lbs.	Kg.	Lbs.	Kg.	
GS-00210W-4S3	GS-00210W-4S3	1/2"	15 mm	Socket Weld	15	6.80	3.90	9.07	11.50
GS-00210W-4T3	GS-00210W-4T3	1/2"	15 mm	Threaded	15	6.80	3.90	18.14	40.00
GS-00210W-6S3	GS-00210W-6S3	3/4"	20 mm	Socket Weld	15	6.80	7.10	31.75	60.00
GS-00210W-6T3	GS-00210W-6T3	3/4"	20 mm	Threaded	15	6.80	7.10	45.35	175
GS-00210W-8S3	GS-00210W-8S3	1"	25 mm	Socket Weld	15	6.80	11.50	45.35	175
GS-00210W-8T3	GS-00210W-8T3	1"	25 mm	Threaded	15	6.80	11.50	45.35	175
GS-00210W-12S3	GS-00210W-12S3	1-1/2"	40 mm	Socket Weld	25	11.34	29.00	45.35	175
GS-00210W-16W3A	GS-00210W-16W3A	2"	50 mm	Butt Weld SCH10	35	15.88	40.00	45.35	175
GS-00210W-16W3J	GS-00210W-16W3J	2"	50 mm	Butt Weld SCH40	35	15.88	40.00	45.35	175
GS-00210W-24W3A	GS-00210W-24W3A	3"	80 mm	Butt Weld SCH10	55	24.95	60.00	45.35	175
GS-00210W-24W3J	GS-00210W-24W3J	3"	80 mm	Butt Weld SCH40	55	24.95	60.00	45.35	175
GS-00210W-32W3A	GS-00210W-32W3A	4"	100 mm	Butt Weld SCH10	80	36.29	175.00	45.35	175
GS-00210W-32W3J	GS-00210W-32W3J	4"	100 mm	Butt Weld SCH40	80	36.29	175.00	45.35	175

Second number indicates valve for 300# part number.

150# ANSI Class (275 psig Cold Working Pressure)

300# ANSI Class (720 psig Cold Working Pressure)

REGO-LOK™ FOR SECURING CGA FITTINGS ON LIQUID CYLINDERS

Part Number	Item Description	Typical Service Connection
9464RL-0	REGO-LOK™ for 3/4" hex fittings	CGA 295
9464RL-1	REGO-LOK™ for 7/8" fittings	CGA 440, CGA 320 & CGA 326
9464RL-2	REGO-LOK™ for 1" fittings	CGA 540
9464RL-3	REGO-LOK™ for 1-1/8" hex CGA 580RL fitting by Rego	CGA 580
CGA580RL	3/8" MNPTxCGA for use with 9464RL-3	CGA 580

* Valve not included



9464RL-1



9464RL-3



Cryogenic Shut-Off Valves

SHORT STEM CRYOGENIC VALVES T9450 SERIES & T9460 SERIES

Application

The T9450 and T9460 series valves are designed for use on portable cryogenic cylinders and other in-line shut-off valve applications. Approved for TPED in accordance with EN1626.

Features

- Spring loaded stem seal automatically adjusts for any gasket wear, eliminating the need to constantly retighten the packing nut.
- Non-rising stem and low profile allow the valve to fit into tight areas and still provide easy access.
- Unique pressure-sealed moisture barrier helps prevent freezing up at cryogenic temperatures.
- Conical swivel seal design helps prevent seat galling from over torquing.
- Cleaned for liquid oxygen service per CGA G-4.1. • Maximum working pressure is 600 PSIG. (41.3 Bar)
- Working temperature range is -320°F to +165°F. (-196°C to +74°C)
- 100% Factory Tested

Part Number	Inlet	Outlet	Orifice A	Tube D	Cv Factor
T9452	1/4" FNPT	1/4" FNPT	0.25	None	0.99
T9453	3/8" FNPT	3/8" FNPT	0.406		1.76
T9454	1/2" FNPT	1/2" FNPT			1.79
T9464CA	.675 Tube	3/8" FNPT	0.406	1-1/8"	1.76
T9464DA				2-1/8"	
T9464ADA				3-3/8"	



T9454



T9464DA

ES8450 SERIES EXTENDED STEM VALVES BK9450 & BK9470 SERIES EXTENDED BONNET VALVES

Application

For use as a trycock valve or hose drain valve on cryogenic tanks, or as a use, liquid fill, or vent valve on mini-bulk cryogenic tanks. These valves can be used likewise for other cold gas applications requiring extended stem valves as LNG Fueling.

Part Number	Inlet/Outlet Connections	Height "A"	Body Width "B"	Width with Tube "C"	Cv
ES8452	1/4" FNPT	4.2"	2.5"	NA	0.7
TES8452					
ES8453	3/8" FNPT				1.1
TES8453					
ES8454	1/2" FNPT	6.5"	2.5"	NA	0.7
TES8454					
BK9452	1/4" FNPT				1.1
BK9453	3/8" FNPT				
BK9454	1/2" FNPT				4.0"
BK9453FA	5/8" OD tubing x 3/8" FNPT				
BK9475A	5/8" OD tubing both ends	5.5"			



ES8454



BK9454



Cryogenic Shut-Off Valves

STAINLESS STEEL GATE VALVE FOR CRYOGENIC SERVICE 110 SERIES

Application

RegO Goddard gate valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ASU plants and piping configurations. Compatible with Oxygen, Nitrogen, CO₂, Argon and LNG.

Features

- Top Entry: This valve can be permanently installed in the line and serviced from the top
- Soft Seated: PCTFE Seat provides a bubble-tight seal and is replaceable
- Construction: Body and Bonnet ASTM A351-CF8 J92600 Stainless steel
- Sizes: 1/2" - 6" (15mm - 150mm)
- Ends: RF Flange, Butt Weld, Socket Weld, Threaded (FNPT)
- Service: Liquefied and vaporized atmospheric gases, LNG
- WHZ valves with Grafoil® stem packing available
- Temperature Rating: -320°F - 150°F (-196°C +65°C)
- 100% Factory Tested • Clean for use in Oxygen per CGA G-4.1
- PED Approved
- Pressure Rating: (Cold, Non-shock) Class 150 valve - 275 psig (19 barg) Class 300 valve - 720 psig (50 barg)



GS-110W-8S3

150# Part Number	300# Part Number	Size Inches	Ends	Weight 150# lbs	Weight 300# lbs	Cv	Kv
GS-110W-8F	N/A	1"	RF Flange	15	N/A	30	25.95
GS-110W-12F	GS-110W-12F3	1-1/2"		35	45	85	73.52
GS-110W-16F	GS-110W-16F3	2"		35	60	100	86.50
GS-110W-24F	GS-110W-24F3	3"		65	85	310	268.15
GS-110W-32F	GS-110W-32F3	4"		90	120	700	605.50
GS-110W-48F	GS-110W-48F3	6"		150	200	850	735.25
GS-110W-4WA	N/A	1/2"	Butt Weld SCH10	10	N/A	7	6.05
N/A	GS-110W-4S3		Socket Weld	N/A	15		
GS-110W-4T	N/A		Threaded	10	N/A		
GS-110W-6WA	N/A	3/4"	Butt Weld SCH10	N/A	15	23	19.89
N/A	GS-110W-6S3		Socket Weld				
GS-110W-8WA	N/A	1"	Butt Weld SCH10	10	N/A	30	25.95
N/A	GS-110W-6S3		Socket Weld	N/A	15		
GS-110W-8T	N/A		Threaded	10	N/A		
GS-110W-12WA	N/A	1-1/2"	Butt Weld SCH10	30	N/A	85	73.52
N/A	GS-110W-12S3		Socket Weld				
N/A	GS-110W-16W3A	2"	Butt Weld SCH10	N/A	35	100	86.5
N/A	GS-110W-16W3J		Butt Weld SCH40				
GS-110W-16S	N/A		Socket Weld				
N/A	GS-110W-24W3A	3"	Butt Weld SCH10	N/A	65	310	268.15
N/A	GS-110W-24W3J		Butt Weld SCH40				
N/A	GS-110W-32W3A	4"	Butt Weld SCH10	N/A	80	700	605.50
N/A	GS-110W-32W3J		Butt Weld SCH40				
N/A	GS-110W-48W3A	6"	Butt Weld SCH10	N/A	150	850	735.25
N/A	GS-110W-48W3J		Butt Weld SCH40				



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