

Stainless Steel Gate Valve for Cryogenic Service

Goddard 110 Series

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:** Stainless steel body and bonnet
- Sizes:** ½" - 6" (15mm - 150mm)
- Ends:** RF Flange, Butt weld, Socket weld, Threaded (FNPT)
- Service:** Liquified and vaporized atmospheric gases, LNG
- Temperature Rating:** -325°F - 150°F (-196°C +65°C)
- 100% Factory Tested
- Clean for use in oxygen per CGA G-4.1
- Pressure Rating:** (Cold, Non-shock)
Class 150 valve - 275 PSIG (19 bar)
Class 300 valve - 720 PSIG (50 bar)

½" - 6" Class 150
PED Approved, Approved for US and Canada
½" - 6" Class 300
PED Approved, Approved for US and Canada

Goddard 110 Series



Ordering Information

Stainless Body • RF Flange Ends

150# Part Number	300# Part Number	Valve Size		Ends	Weight 150#		Weight 300#		Estimated CV
		Inches	MM		Lbs.	Kg	Lbs.	Kg.	
GS-00110W-8F	-	1"	25 mm	Flange	15	6.80	-	-	30.00
GS-00110W-12F	GS-00110W-12F3	1½"	40 mm		35	15.88	45	20.41	85.00
GS-00110W-16F	GS-00110W-16F3	2"	50 mm		35	15.88	50	22.68	100.00
GS-00110W-24F	GS-00110W-24F3	3"	80 mm		65	29.48	85	35.56	310.00
GS-00110W-32F	GS-00110W-32F3	4"	100 mm		90	40.82	120	54.43	700.00
GS-00110W-48F	GS-00110W-48F3	6"	150 mm		150	68.04	200	90.72	850.00

150# ANSI Class (275 PSIG Cold Working Pressure) 300# ANSI Class (720 PSIG Cold Working Pressure)

Stainless Body • Butt Weld, Socket Weld, Threaded Ends

150# Part Number	300# Part Number	Valve Size		Ends	Weight		Estimated CV
		Inches	MM		Lbs.	Kg.	
GS-00110W-4WA	-	½"	15 mm	Butt Weld SCH10	10	4.54	7.00
GS-00110W-4S3	GS-00110W-4S3	½"	15 mm	Socket Weld	15	6.80	7.00
GS-00110W-4T	-	½"	15 mm	Threaded	10	4.54	7.00
GS-00110W-6WA	-	¾"	20 mm	Butt Weld SCH10	10	4.54	23.00
GS-00110W-6S3	GS-00110W-6S3	¾"	20 mm	Socket Weld	15	6.80	23.00
GS-00110W-8WA	-	1"	25 mm	Butt Weld SCH10	10	4.54	30.00
GS-00110W-8S3	GS-00110W-8S3	1"	25 mm	Socket Weld	15	6.80	30.00
GS-110W-8T	-	1"	25mm	Threaded	10	4.54	30.00
GS-00110W-12WA	-	1½"	40 mm	Butt Weld SCH10	30	13.61	85.00
GS-00110W-12S3	GS-00110W-12S3	1½"	40 mm	Socket Weld	35	15.88	85.00
GS-00110W-16W3A	GS-00110W-16W3A	2"	50 mm	Butt Weld SCH10	35	15.88	100.00
GS-00110W-16W3J	GS-00110W-16W3J	2"	50 mm	Butt Weld SCH40	35	15.88	100.00
GS-00110W-16S	-	2"	50 mm	Socket Weld	30	13.61	100.00
GS-00110W-24W3A	GS-00110W-24W3A	3"	80 mm	Butt Weld SCH10	65	29.48	310.00
GS-00110W-24W3J	GS-00110W-24W3J	3"	80 mm	Butt Weld SCH40	65	29.48	310.00
GS-00110W-32W3A	GS-00110W-32W3A	4"	100 mm	Butt Weld SCH10	80	40.82	700.00
GS-00110W-32W3J	GS-00110W-32W3J	4"	100 mm	Butt Weld SCH40	80	40.82	700.00
GS-00110W-48WA	GS-00110W-48W3A	6"	150 mm	Butt Weld SCH10	120/150*	54.43/68.04*	850.00
GS-00110W-48WJ	GS-00110W-48W3J	6"	150 mm	Butt Weld SCH40	120/150*	54.43/68.04*	850.00

150# ANSI Class (275 PSIG Cold Working Pressure) 300# ANSI Class (720 PSIG Cold Working Pressure)

* Second number indicates valve for 300# part number.

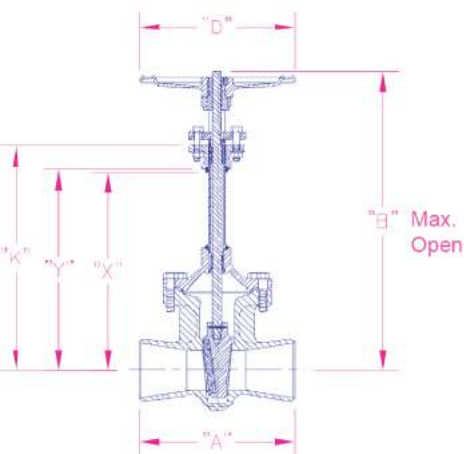
Service: 300#-720 PSI Non-shock Cold • Service: 150#-275 PSI Non-shock Cold • Temperature Rating +150°F - 325°F

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Stainless Steel Gate Valve for Cryogenic Service

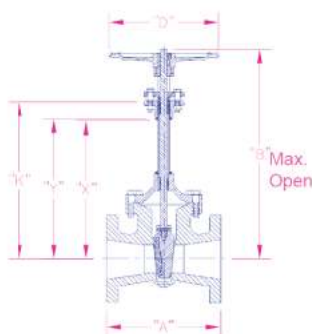
Goddard 110 Series



Socket Weld Ends

Size	"A" 150#	"A" 300#	"B"	"D"	"E"	"F"	"K"	"X"	"Y"
1/2"	3 3/4"	3 3/4"	17 3/4"	4 1/2"	.855	3/8"	12 3/4"	11 1/16"	11 3/8"
3/4"	3 3/4"	3 3/4"	17 3/4"	4 1/2"	1.065	1/2"	12 3/4"	11 1/16"	11 3/8"
1"	3 1/2"	4"	17 3/4"	4 1/2"	1.330	1/2"	12 3/4"	11 1/16"	11 3/8"
1 1/2"	4 5/8"	5"	21 7/8"	7"	1.915	1/2"	14"	12 5/16"	12 5/8"
2"	8 1/2"	N/A	21 7/8"	7"	2.406	5/8"	14"	12 5/16"	12 5/8"

● Special B,K,X & Y Dimensions Available

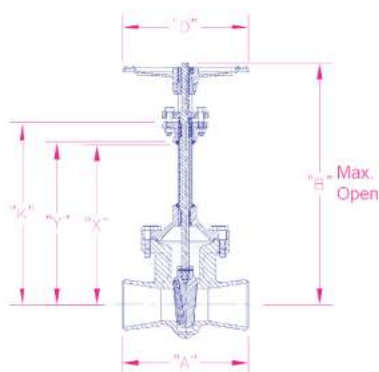


Raised Face Flange Ends*

Size	"A" 150#	"A" 300#	"B"	"D"	"K"	"X"	"Y"
1"	4 1/8"	N/A	17 3/4"	4 1/2"	12 3/4"	11 1/16"	11 3/8"
1 1/2"	4 3/8"	6 5/8"	21 1/8"	7"	14"	12 7/16"	12 3/8"
2"	7"	7 1/4"	21 1/8"	7"	14"	12 7/16"	12 3/8"
3"	8"	8 3/4"	31 1/2"	12"	20"	17 3/4"	18 1/16"
4"	9"	12"	33 3/4"	12"	21 1/2"	19 1/4"	19 7/16"
6"	10 1/2"	15 5/8"	41 1/2"	16"	26"	23 9/16"	23 3/8"

*Face-to-face dimensions (A) are Goddard standard not to ANSI standard.

● Special B,K,X & Y Dimensions Available



Butt Weld Ends

Size	"A" 150#	"A" 300#	"B"	"D"	"K"	"X"	"Y"
1/2"	4 1/4"	N/A	17 3/4"	4 1/2"	12 3/4"	11 1/16"	11 3/8"
3/4"	4 3/8"	N/A	17 3/4"	4 1/2"	12 3/4"	11 1/16"	11 3/8"
1"	5"	N/A	17 3/4"	4 1/2"	12 3/4"	11 1/16"	11 3/8"
1 1/2"	6"	6"	21 1/8"	7"	14"	12 5/16"	12 3/8"
2"	8 1/2"	8 1/2"	21 1/8"	7"	14"	12 5/16"	12 3/8"
3"	11 1/8"	11 1/8"	31 1/2"	12"	20"	17 3/4"	18 1/16"
4"	12"	12"	33 3/4"	12"	21 1/2"	19 1/4"	19 7/16"
6"	15 5/8"	15 5/8"	41 1/2"	16"	26"	23 9/16"	23 3/8"

● Special B,K,X & Y Dimensions Available

● Unless otherwise specified, Schedule 10 weld ends are supplied

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Stainless Steel Globe Valve for Cryogenic Service

Goddard 210 Series

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:** Stainless steel body and bonnet
 - **Sizes:** ½" - 4" (15mm - 150mm)
 - **Ends:** RF Flange, Butt weld, Socket weld, Threaded (FNPT)
 - **Service:** Liquefied and vaporized atmospheric gases, LNG
 - **Temperature Rating:** -325°F - 150°F (-196°C +65°C)
 - **Pressure Rating:** (Cold, Non-shock)
Class 150 valve - 275 PSIG (19 bar)
Class 300 valve - 720 PSIG (50 bar)
- ½" - 4" Class 150
PED Approved, Approved for US and Canada
½" - 4" Class 300
PED Approved, Approved for US and Canada



Goddard 210 Series

Our investment cast stainless steel is specified by leading industrial gas companies for storage tank and yard operations. Special bonnet extensions can be supplied for cold box applications. Valves for hydrogen use can be supplied.

Ordering Information

Stainless Body • RF Flange Ends

150# Part Number	300# Part Number	Valve Size		Ends	150# Weight		300# Weight		Estimated CV
		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		90	40.82	95	43.09	175.00

150# ANSI Class (275 PSIG Cold Working Pressure)

300# ANSI Class (720 PSIG Cold Working Pressure)

Stainless Body • Butt Weld, Socket Weld, Threaded Ends

150# Part Number	300# Part Number	Valve Size		Ends	Weight		Estimated CV
		Inches	MM		Lbs.	Kg	
GS-00210W-4S3	GS-00210W-4S3	½"	15 mm	Socket Weld	15	6.80	3.90
GS-00210W-4T3	GS-00210W-4T3	½"	15 mm	Threaded	15	6.80	3.90
GS-00210W-6S3	GS-00210W-6S3	¾"	20 mm	Socket Weld	15	6.80	7.10
GS-00210W-6T3	GS-00210W-6T3	¾"	20 mm	Threaded	15	6.80	7.10
GS-00210W-8S3	GS-00210W-8S3	1"	25 mm	Socket Weld	15	6.80	11.50
GS-00210W-8T3	GS-00210W-8T3	1"	25 mm	Threaded	15	6.80	11.50
GS-00210W-12S3	GS-00210W-12S3	1½"	40 mm	Socket Weld	25	11.34	29.00
GS-00210W-16W3A	GS-00210W-16W3A	2"	50 mm	Butt Weld SCH10	35	15.88	40.00
GS-00210W-16W3J	GS-00210W-16W3J	2"	50 mm	Butt Weld SCH40	35	15.88	40.00
GS-00210W-24W3A	GS-00210W-24W3A	3"	80 mm	Butt Weld SCH10	55	24.95	60.00
GS-00210W-24W3J	GS-00210W-24W3J	3"	80 mm	Butt Weld SCH40	55	24.95	60.00
GS-00210W-32W3A	GS-00210W-32W3A	4"	100 mm	Butt Weld SCH10	80	36.29	175.00
GS-00210W-32W3J	GS-00210W-32W3J	4"	100 mm	Butt Weld SCH40	80	36.29	175.00

150# ANSI Class (275 PSIG Cold Working Pressure)

300# ANSI Class (720 PSIG Cold Working Pressure)

* Second number indicates valve for 300# part number.

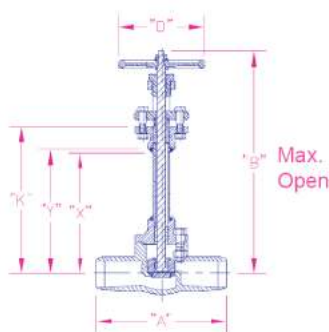
Service: 300#-720 PSI Non-shock Cold • Service: 150#-275 PSI Non-shock Cold • Temperature Rating +150°F to -325°F

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Stainless Steel Globe Valve for Cryogenic Service

Goddard 210 Series

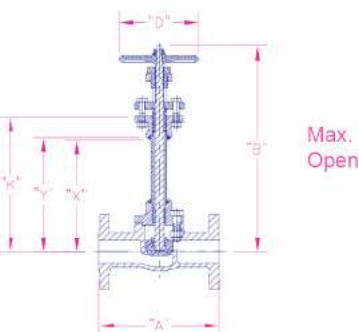


Butt Weld Ends

Size	"A"	"B"	"D"	"K"	"X"	"Y"
2"	10½"	22¼"	7"	15"	12¾"	13 ¹ / ₁₆ "
3"	Δ12"	30½"	10"	21½"	19 ¹ / ₁₆ "	19¾"
4"	Θ13½"	36¾"	12"	24¼"	21 ¹¹ / ₁₆ "	22"
6"	17½"	43¾"	18"	33 ³ / ₁₆ "	28 ¹³ / ₁₆ "	29 ³ / ₁₆ "

Δ For SCH. 40 A=12½"
 Θ For SCH. 40 A=14"

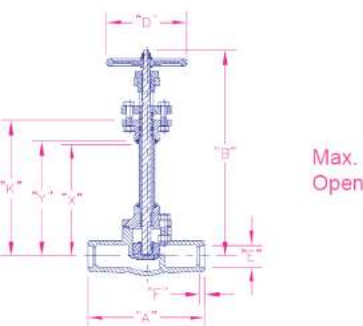
- * Unless otherwise specified, SOH 10 weld ends are supplied
- Special B,K,X & Y dimensions available.



Raised Face Flange Ends*

Size	"A" 150#	"A" 300#	"B"	"D"	"K"	"X"	"Y"
1"	6½"	8"	18⅞"	5"	12¾"	11 ¹ / ₁₆ "	11 ³ / ₈ "
2"	8"	10½"	22¼"	7"	15"	12¾"	13 ¹ / ₁₆ "
3"	9½"	12½"	30½"	10"	21½"	19 ¹ / ₁₆ "	19 ³ / ₈ "
4"	11½"	14"	36¾"	12"	24¼"	21 ¹¹ / ₁₆ "	22"

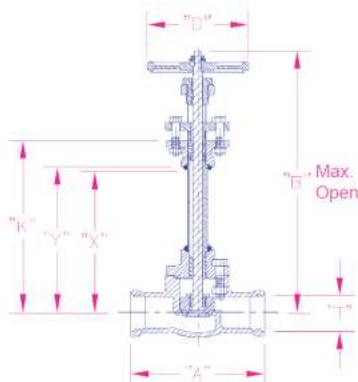
- Special B,K,X & Y dimensions available.



Socket Weld Ends

Size	"A"	"B"	"D"	"E"	"F"	"K"	"X"	"Y"
½"	5"	18⅞"	5"	.855	⅜"	12¾"	11 ¹ / ₁₆ "	11 ³ / ₈ "
¾"	5"	18⅞"	5"	1.065	½"	12¾"	11 ¹ / ₁₆ "	11 ³ / ₈ "
1"	5"	18⅞"	5"	1.330	½"	12¾"	11 ¹ / ₁₆ "	11 ³ / ₈ "
1½"	10¼"	22¼"	7"	1.915	½"	15"	12¾"	13 ¹ / ₁₆ "

- Special B,K,X & Y dimensions available.



Threaded Ends

Size	"T" - NPT	"A"	"B"	"D"	"K"	"X"	"Y"
½"	½"-14	5"	18⅞"	5"	12¾"	11 ¹ / ₁₆ "	11 ³ / ₈ "
¾"	¾"-14	5"	18⅞"	5"	12¾"	11 ¹ / ₁₆ "	11 ³ / ₈ "
1"	1"-11½	5¾"	18⅞"	5"	12¾"	11 ¹ / ₁₆ "	11 ³ / ₈ "

- Special B,K,X & Y dimensions available.

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Stainless Steel Globe Valve for Cryogenic Service

Goddard 231 Series

Features

- **Top Entry:** Rugged stainless steel * soft seated cryogenic globe valve. 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:** One piece investment cast bonnet eliminates welded joint in topworks
- **Stem Packing:** Proprietary Goddard system utilizing GRAFOIL® flexible graphite
- **Sizes:** ¼" through 1½" (6mm through 40mm)
- **Ends:** Socket weld, Butt weld
- **Service:** Liquified and Gaseous hydrogen service only (see series 232 for non-hydrogen service)
- **Temperature Rating:** -425°F to 150°F (-254°C to +65°C)
- **Pressure Rating:** (Cold, Non-shock)
300 PSIG (20 Bar)
400 PSIG (27 Bar)

*Stainless steel ASTM A351-CF3M (316L)

PED Approved, Approved for US and Canada
Designed to ASME B16.34

A rugged construction and easy access are design features which provide minimum installation and maintenance cost while maintaining superior performance and operator safety. This valve replaces higher cost bellows-seated valves in many applications. The proprietary Goddard GRAFOIL® stem packing system provides excellent performance when the valve operates in liquid hydrogen service.



Goddard 231 Series

Ordering Information

Stainless Body • 400 PSIG Socket Weld Ends

Part Number	Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
S-000231-2S4	¼"	6 mm	Socket Weld	6 lbs.	2.72 Kgs.	1.30
S-000231-4S4	½"	15 mm	Socket Weld	6 lbs.	2.72 Kgs.	3.90
S-000231-6S4	¾"	20 mm	Socket Weld	10 lbs.	4.54 Kgs.	7.10
S-000231-8S4	1"	25 mm	Socket Weld	10 lbs.	4.54 Kgs.	10.50
S-000231-12S4	1½"	40 mm	Socket Weld	15 lbs.	6.80 Kgs.	25.00

Stainless Body • 300 PSIG Butt Weld Ends

Part Number	Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
S-000231-4WA	½"	15 mm	Butt Weld	6 lbs.	2.72 Kgs.	3.90
S-000231-8WA	1"	25 mm	Butt Weld	10 lbs.	4.54 Kgs.	10.50
S-000231-12WA	1½"	40 mm	Butt Weld	15 lbs.	6.80 Kgs.	25.00

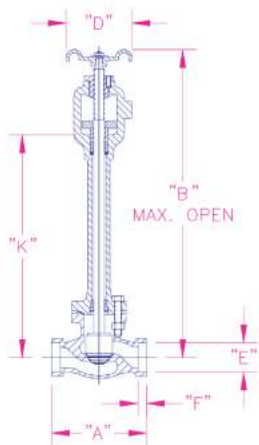
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Stainless Steel Globe Valve for Cryogenic Service Goddard 231 Series



Pressure Rating 400 PSIG

Temperature Rating +150° F to - 425° F

This valve is not approved for gaseous and/or liquid oxygen service

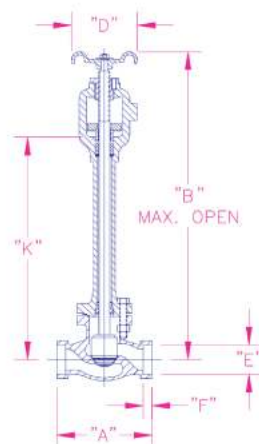
For oxygen service use Goddard series 232H cryogenic globe valve

Dimensional data

All Dimensional Data are in inches.

SOCKET WELD ENDS

Size	"A"	"B"	"D"	"E"	"F"	"K"
¼"	4¼"	14 ⁹ / ₁₆ "	2¾"	0.560	0.375	10 ³ / ₁₆ "
½"	4¼"	14 ⁹ / ₁₆ "	2¾"	0.860	0.375	10 ³ / ₁₆ "
¾"	5¾"	17"	3"	1.070	0.500	11½"
1"	5¾"	17"	3"	1.335	0.500	11½"
1½"	6½"	18 ¹⁴ / ₁₆ "	4"	1.920	0.500	12 ¹⁵ / ₁₆ "



Pressure Rating 300 PSIG

Temperature Rating +150° F to - 425° F

This valve is not approved for gaseous and/or liquid oxygen service

For oxygen service use Goddard series 232H cryogenic globe valve

Dimensional data

All Dimensional Data are in inches.

BUTT WELD ENDS

Size	"A"	"B"	"D"	"K"
½"	4¼"	14 ⁹ / ₁₆ "	2¾"	10 ³ / ₁₆ "
1"	5"	17"	3"	11½"
1½"	6½"	18¾"	4"	12 ⁵ / ₁₆ "

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Stainless Steel Globe Valve for Cryogenic Service

Goddard 232 Series

Features

- **Top Entry:** Rugged stainless steel * soft seated cryogenic globe valve. 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:** One piece investment cast bonnet eliminates welded joint in topworks.
- **Sizes:** ½" through 1½" (15mm through 40mm)
- **Ends:** Socket weld and Butt weld
- **Service:** Liquified and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F to 150°F (-198°C to +65°C)
- **Pressure Rating:** (Cold, Non-shock)
300 PSIG (20 Bar)
400 PSIG (27 Bar)

*Stainless steel ASTM A351-CF3M (316L)

PED Approved, Approved for US and Canada
Designed to ASME B16.34

A rugged construction and easy access are design features which provide minimum installation and maintenance cost while maintaining superior performance and operator safety.



Goddard 232 Series

Ordering Information

Stainless Body Socket Weld Ends 400 PSIG

Part Number	Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
S-000232-4S4	½"	15 mm	Socket Weld	6 lbs.	2.72 Kgs.	3.90
S-000232-8S4	1"	25 mm	Socket Weld	10 lbs.	4.54 Kgs.	10.50

High Purity Cryogenic Bonnet Nickel Plated Naval Brass Yoke Bushing Stainless Steel Body Butt Weld Ends 300 PSIG

Part Number	Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
S-232HCB-4WA	½"	15 mm	Butt Weld	6 Lbs.	2.72 Kgs.	3.90
S-232HCB-8WA	1"	25 mm	Butt Weld	10 Lbs.	4.54 Kgs.	10.50
S-232HCB-12WA	1½"	40 mm	Butt Weld	15 Lbs.	6.80 Kgs.	25.00

High Purity Cryogenic Bonnet Nickel Plated Naval Brass Yoke Bushing, Stainless Steel Body Socket Weld Ends 400 PSIG

Part Number	Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
S-232HCB-4S4	½"	15 mm	Socket Weld	6 lbs.	2.72 Kgs.	3.90
S-232HCB-8S4	1"	25 mm	Socket Weld	10 Lbs.	4.54 Kgs.	10.50
S-232HCB-12S4	1½"	40 mm	Socket Weld	15 Lbs.	6.80 Kgs.	25.00

Stainless Steel Globe Valve for Cryogenic Service

Goddard 232 Series

Pressure rating 300 PSIG non-shock cold
 Temperature rating +150° F to -325° F
 Dimensional Data
 All dimensions are in inches

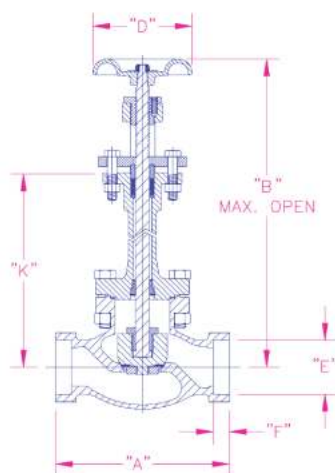
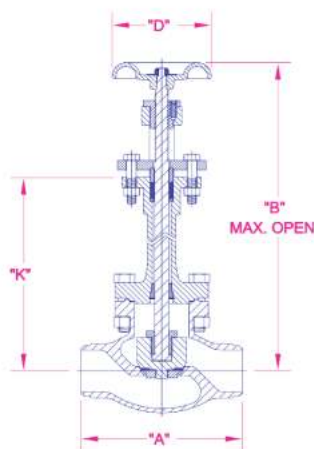
BUTT WELD ENDS

Size	"A"	"B"	"D"	"K"
½"	4¼"	14 ⁹ / ₁₆ "	2¾"	10 ³ / ₁₆ "
1"	5"	17"	3"	11 ½"
1½"	6"	18¾"	4"	12 ⁵ / ₁₆ "

Pressure rating 400 PSIG non-shock cold
 Temperature rating +150° F to -325° F
 Dimensional Data
 All dimensions are in inches

SOCKET WELD ENDS

Size	"A"	"B"	"D"	"E"	"F"	"K"
½"	4¼"	14 ⁹ / ₁₆ "	2¾"	0.860	0.375	10 ³ / ₁₆ "
1"	5¾"	17"	3"	1.335	0.500	11 ½"
1½"	6½"	18¾"	4"	1.920	0.500	12 ⁵ / ₁₆ "



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RegO - Goddard Stainless Steel Globe Valve for Cryogenic Service SK Series

Application

The SK Series globe valves are designed for the handling of cryogenic liquids through trailer, bulk tanks and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance

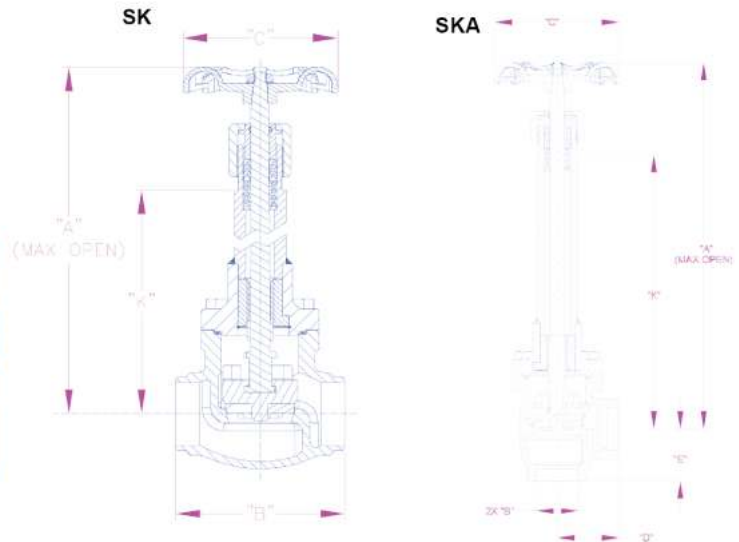
Features

- **Superior Flow:** Provides high Cv for rapid and reliable trailer and tank loading and unloading.
- **Top Entry:** Rugged stainless steel soft seated crogenic globe valve. This valve can be permanently installed in the line and serviced from the top.
- **Soft Seated:** PCTFE seat provides a virtually bubble tight seal and is replaceable.
- **Stem Packing:** RegO BK Series V-Ring spring loaded packing provides extended service life without constant packing adjustment.
- **Sizes:** ¼" Through 2" - 8. mm through 50mm
- **Ends:** Socket weld and butt weld.
- **Service:** Liquified and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F to +150°F (-198°C to +65°C)
- **Pressure Rating:** (Cold, Non-Shock) 725 PSIG (50 BAR) Class 300



Materials

Body	Stainless Steel
Bonnet and Tube	Stainless Steel
Seat Disk	PCTFE
Seat Retainer.....	Brass
Packing Spring/Washer	Stainless Steel
Stem	Stainless Steel
Packing.....	PTFE
Handwheel.....	Chromate Coated Ductile Iron
Bonnet Gasket.....	PTFE
Fasteners (Bolts)	Stainless Steel



Ordering Information

Part Number	Size	Connection	"A"	"B"	"C"	"K"	Cv	
SK9402BW	¼"	Buttweld	14.40	2.68	3.00	10.65	-	
SK9404BW	½"							
SK9406BW	¾"			3.62	4.00	10.49		
SK9408BW	1"							
SK9412BW	1½"			4.75	4.75	10.42		28.3
SK9416BW	2"			5.75	5.25	11.11		53
SKA9412SE	1½"	Socket Weld	14.60		4.75	10.42	26.4	

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Bronze Gate Valves for Cryogenic Service Goddard 302, 306, 310 & 310X Series

Features

- **Top Entry:** This union bonnet valve can be permanently installed in the line and serviced from the top
- **Construction:**
Bronze cast body and bonnet
Rugged construction for long life
Straight through design for high CV
Designed with unique KOLD-SEAL™
- **Sizes:** ½" - 3" (15mm - 80mm)
- **Ends:** Threaded (FNPT), Sil Braze Tube (SBT), or with stainless steel pipe nipples brazed in
- **Service:** Liquified and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F - +150°F (-196°C +65°C)
- **Pressure Rating:** (Cold, Non-shock)
310, 310x Series 300 PSIG
302 Series 400 PSIG
306 Series 600 PSIG

Designed to MSS SP-80 and ASME B31.3
Sizes 1.5" - 3.0" PED approved per EN 10204, 3.1
- **Soft Seated** Series 310 & 310X: Solid wedge with PCTFE (Neoflon®) provides a bubble tight seal and is replaceable.
- **Metal Seated** Series 302 & 306: Split wedge made of Bronze and also replaceable.

Gate design for high flow applications.

Straight-through flow for highest CV rating in the industry.

302, 306 Non-Extended stem for selective cold gas applications

310, 310X Extended stem ideal for cryogenic supply applications



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Bronze Gate Valves for Cryogenic Service

Goddard 302, 306, 310 & 310X Series

Ordering Information

302 Series

Bronze Gate Valves
Bronze Body Non-Extended Bonnet, Split Wedge
For selected cold gas operations
400 PSIG COLD WORKING PRESSURE

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000302-4T4	½"	15	Threaded	1.50	0.70	19.80
B-000302-20T4	2½"	65	Threaded	17.50	8.00	372.00
B-000302-24T4	3"	80	Threaded	26.00	11.80	588.00

Part Number	SBT Size Inches*	SBT Size mm*	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000302-4S4	½"	15	Silver Braze	1.25	0.60	19.80
B-000302-6S4	¾"	20	Silver Braze	2.25	1.00	36.00
B-000302-8S4	1"	25	Silver Braze	3.00	1.40	60.80
B-000302-12S4	1½"	40	Silver Braze	6.00	2.70	152.00
B-000302-16S4	2"	50	Silver Braze	9.50	4.30	245.00
B-000302-20S4	2½"	65	Silver Braze	14.50	6.60	372.00
B-000302-24S4	3"	80	Silver Braze	22.00	10.00	588.00

*Nominal Size

306 Series

600 PSIG Bronze Body, Non-Extended Bonnet, Split Wedge

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000306-6T6	¾"	20	Threaded	2.25	1.00	36.00
B-000306-8T6	1"	25	Threaded	3.00	1.40	60.80
B-000306-12T6	1½"	40	Threaded	6.00	2.70	152.00
B-000306-16T6	2"	50	Threaded	9.50	4.30	245.00

310 Series

300 PSIG Bronze Body, Extended Bonnet, Solid Wedge, Soft Seat

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000310-20T	2½"	65	Threaded	14.50	6.60	372.00
B-000310-24T	3"	80	Threaded	22.00	10.00	588.00

Part Number	SBT Size Inches *	SBT Size mm *	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000310-24S	3"	80	Silver Braze	22.00	10.00	588.00

*Nominal Size

310X Series

Short Top Works for Trailer Service

300 PSIG Bronze Body, Extended Bonnet, Solid Wedge, Soft Seat

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000310X-20T	2½"	65	Threaded	14.50	6.60	372.00
B-000310X-24T	3"	80	Threaded	22.00	10.00	588.00

Part Number	SBT Size Inches *	SBT Size mm *	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000310X-24S	3"	80	Silver Braze	22.00	10.00	588.00

*Nominal Size

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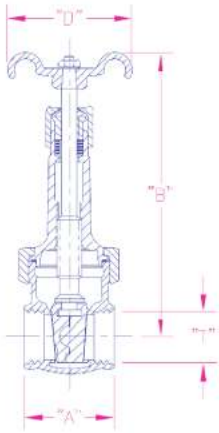
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Bronze Gate Valves for Cryogenic Service

Goddard 302, 306 Series

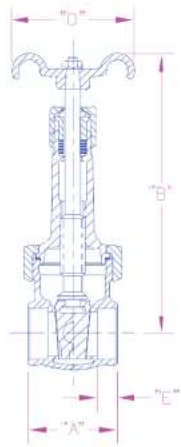


302 Series

MAWP: 400 PSIG Non-Shock Cold Temperature Rating +150° F to -325°F
 Non-Extended Valve for selective cold gas applications
 Dimensional Data
 All dimensions are in inches

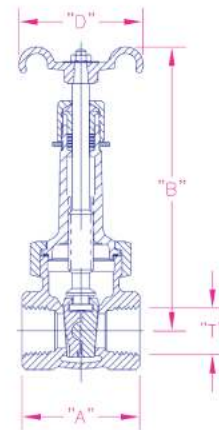
Threaded End (NPT)

Size	"A"	"B"	"D"	"T" NPT
½"	2.34"	5.81"	2.37"	½"
¾"	2.50"	6.94"	2.75"	¾"
1"	2.84"	8.43"	3.00"	1"
1½"	3.43"	11.19"	4.00"	1½"
2"	3.81"	13.19"	4.75"	2"
2½"	4.68"	15.81"	5.25"	2½"
3"	5.12"	18.25"	6.12"	3"



Sil Braze End

Size	"A"	"B"	"D"	"T" NPT
½"	2.50"	5.81"	2.37"	.38"
¾"	3"	6.94"	2.75"	.40"
1"	3.25"	8.43"	3"	.43"
1½"	4"	11.19"	4"	.62"
2"	4.5"	13.19"	4.75"	.65"
2½"	5.25"	15.81"	5.25"	.78"
3"	6"	18.25"	6.12"	.82"



306 Series

MAWP: 600 PSIG Non-Shock Cold-Temperature Rating +150° F to -325°F
 Non-Extended Valve for selective cold gas applications
 Dimensional Data
 All dimensions are in inches

Size	"A"	"B"	"D"	"T" NPT
¾"	2.5"	6.93"	2¾"	¾"
1"	2.84"	8.43"	3"	1"
1½"	3.43"	11.18"	4"	1½"
2"	3.81"	13.81"	4¾"	2"

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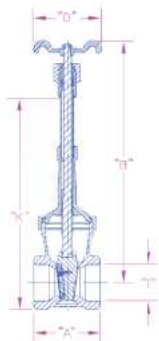
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Bronze Gate Valves for Cryogenic Service

Goddard 310 & 310X Series

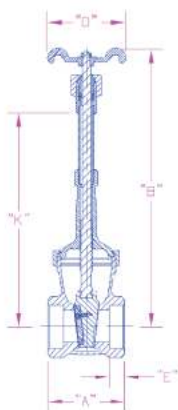
310 Series

MAWP: 300 PSIG Non-Shock Cold-Temperature Rating +150° F to -325°F
 Extended Valve for selective cold gas applications
 Dimensional Data
 All dimensions are in inches



Threaded End (NPT)

Size	"A"	"B"	"D"	"K"
2½"	6"	25.38"	6.12"	16.30"
3"				

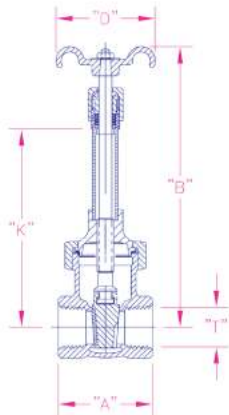


Sil Braze End

Size	"A"	"B"	"D"	"E"	"K"
2½"	6"	25.38"	6.12"	.03"	16.30"
3"					

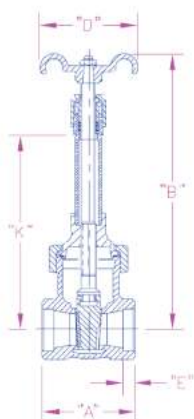
310X Series

MAWP: 300 PSIG Non-Shock Cold-Temperature Rating +150° F to -325°F
 Extended Valve for selective cold gas applications, Ideal for Trailer Service
 Dimensional Data
 All dimensions are in inches



Threaded End (NPT)

Size	"A"	"B"	"D"	"K"
2½"	6"	20.38"	6.12"	11.5"
3"				



Sil Braze End

Size	"A"	"B"	"D"	"E"	"K"
2½"	6"	20.38"	6.12"	0.3"	11.5"
3"					

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Extended Bonnet Bronze Gate Valve for Cryogenic Service Goddard 322 and 326 Series

Features

- **Top Entry:** This union bonnet valve can be permanently installed in the line and serviced from the top
- **Construction:**
Bronze cast body and Internals
Rugged construction for long life
Straight through construction for high CV
Designed with unique KOLD-SEAL™
Standard split wedge design provides better sealing and cycle life
- **Sizes:** ½" - 3" (15mm - 80mm)
- **Ends:** Threaded (FNPT), Sil Braze Tube (SBT), Silver Brazed Pipe (SBP) or with stainless steel pipe nipples brazed in
- **Service:** Liquified and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F - 150°F (-196°C + 65°C)
- **Pressure Rating:** (Cold, Non-shock)
322 Series 400 PSIG
326 Series 600 PSIG

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



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Extended Bonnet Bronze Gate Valve for Cryogenic Service Goddard 322 and 326 Series

Ordering Information

322 Series

Bronze Gate Valves

400 PSIG COLD WORKING PRESSURE

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000322-20T4	2½"	65 mm	Threaded	19.00	8.64	372.00
B-000322-24T4	3"	80 mm	Threaded	28.00	121.73	588.00

Part Number	SBT Size Inches*	SBT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000322-4S4	½"	15 mm	Silver Braze	1.75	0.80	19.80
B-000322-6S4	¾"	20 mm	Silver Braze	2.25	1.02	36.00
B-000322-8S4	1"	25 mm	Silver Braze	3.50	1.59	60.80
B-000322-12S4	1½"	40 mm	Silver Braze	7.50	3.41	152.00
B-000322-16S4	2"	50 mm	Silver Braze	11.25	5.11	245.00
B-000322-20S4	2½"	65 mm	Silver Braze	17.00	7.73	372.00
B-000322-24S4	3"	80 mm	Silver Braze	24.00	10.91	588.00

*Nominal Size

326 Series

Bronze Gate Valves

600 PSIG COLD WORKING PRESSURE

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000326-4T6	½"	15 mm	Threaded	1.75	0.80	19.80
B-000326-6T6	¾"	20 mm	Threaded	2.25	1.02	36.00
B-000326-8T6	1"	25 mm	Threaded	4.00	1.82	60.80
B-000326-12T6	1½"	40 mm	Threaded	8.25	3.75	152.00
B-000326-16T6	2"	50 mm	Threaded	12.50	5.68	245.00

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Extended Bonnet Bronze Gate Valve for Cryogenic Service Goddard 322 and 326 Series

322 Series

MAWP: 400 PSIG Non-Shock Cold
Temperature Rating +150° F to -325°F

Dimensional Data

All dimensions are in inches

Threaded End (NPT)

Size	"A"	"B"	"D"	"K"
½"	2.34"	9.38"	2.37"	5.5"
¾"	2.5"	10.56"	2.75"	6.12"
1"	2.84"	12.38"	3"	7.68"
1½"	3.43"	17"	4"	10.87"
2"	3.81"	19.62"	4.75"	12.38"
2½"	4.68"	22.5"	5.25"	14.5"
3"	5.12"	24.87"	6.12"	16.31"

Sil Braze End

Size	"A"	"B"	"D"	"K"	"E"
½"	2.5"	9.38"	2.37"	5.5"	.38"
¾"	3"	10.56"	2.75"	6.12"	.40"
1"	3.25"	12.38"	3"	7.68"	.43"
1½"	4"	17"	4"	10.87"	.62"
2"	4.5"	19.62"	4.75"	12.38"	.65"
2½"	5.25"	22.5"	5.25"	14.5"	.78"
3"	6"	24.87"	6.12"	16.31"	.82"

326 Series

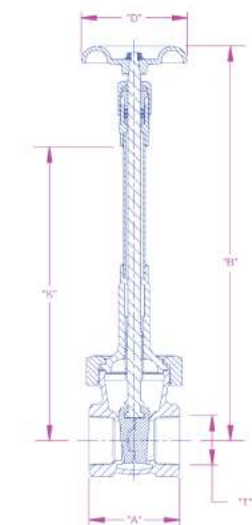
MAWP: 600 PSIG Non-Shock Cold
Temperature Rating +150° F to -325°F

Dimensional Data

All dimensions are in inches

Threaded End (NPT)

Size	"A"	"B"	"D"	"K"
½"	2.34"	9.37"	2¼"	5.5"
¾"	2.5"	10.56"	2¾"	6.12"
1"	2.34"	12.37"	3"	7.6"
1½"	3.43"	17"	4"	10.87"
2"	3.81"	19.62"	4¾"	12.37"



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Bronze Globe Valve for Cryogenic Service

Goddard 202X Series Including 206LL, 206GF, 206ULL, 206BLL

Features

- **Top Entry:** This union bonnet valve can be permanently installed in the line and serviced from the top
- **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
- **Sizes:** ¼" through 2" (8mm through 50mm)
- **Ends:** Threaded (FNPT), Sil Braze Tube (SBT), or with stainless steel pipe nipples brazed in.
- **Service:** Liquified and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F to 150°F (-196°C to +65°C)
- **Pressure Rating:** (Cold, Non-shock)
202 Series Rated for 400 PSIG
206 Series Rated for 600 PSIG
Sizes 1.5" to 2.0" PED approved per EN10204, 3.1
- **Kold-Seal™ Technology** assures tight seal preventing cryogen gas loss. Non-extended stem for selective cold gas service.



Ordering Information

202X

Bronze Globe Valves

Non-Extended Stem - Conical Seat

400 PSIG Cold Working Pressure

For selective Cold Gas Applications

Threaded End

Part Number	NPT Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-00202X-12T4	1½"	40 mm	Threaded	6.50 Lbs.	3.00 Kgs.	29.00
B-00202X-16T4	2"	50 mm	Threaded	10.50 Lbs.	4.80 Kgs.	50.00

Sil Braze Ends

Part Number	SBT Valve size Inches *	Valve Size mm *	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-00202X-4S4	½"	15 mm	Silver Braze	1.50 Lbs.	0.7 Kgs.	3.90
B-00202X-8S4	1"	25 mm	Silver Braze	3.25 Lbs.	1.50 Kgs.	11.50
B-00202X-12S4	1½"	40 mm	Silver Braze	6.50 Lbs.	3.00 Kgs.	29.00
B-00202X-16S4	2"	50 mm	Silver Braze	10.50 Lbs.	4.80 Kgs.	50.00

* Nominal Size

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Bronze Globe Valve for Cryogenic Service

Goddard 202X Series Including 206LL, 206GF, 206ULL, 206BLL

206GF

Bronze Globe Valves

Non-Extended Stem - PFA seat with high temperature, low permeability GRAFOIL® packing and gasket.

600 PSIG Cold Working Pressure, For Selective Cold Gas Applications, High Temperature Service Rating +350°F

Threaded Ends

Part Number	NPT Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
VB-0206GF-2T6	¼"	8 mm	Threaded	1.25 Lbs.	0.6 Kgs.	1.30
VB-0206GF-4T6	½"	15 mm	Threaded	1.50 Lbs.	0.70 Kgs.	3.90
VB-0206GF-6T6	¾"	20 mm	Threaded	2.50 Lbs.	1.10 Kgs.	7.10
VB-0206GF-8T6	1"	25 mm	Threaded	3.50 Lbs.	1.60 Kgs.	11.50
VB-0206GF-12T6	1½"	40 mm	Threaded	7.00 Lbs.	3.20 Kgs.	29.00
VB-0206GF-16T6	2"	50 mm	Threaded	11.75 Lbs.	5.30 Kgs.	50.00

206LL

Bronze Globe Valves, Non-Extended Stem, Live Loaded Packing, 600 PSIG Cold Working Pressure

For Selective Cold Gas Applications

Threaded Ends

Part Number	NPT Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-0206LL-2T6	¼"	8 mm	¼" NPT	1.25 Lbs.	0.6 Kgs.	1.30
B-0206LL-3T6	⅜"	10 mm	⅜" NPT	1.25 Lbs.	0.6 Kgs.	2.40
B-0206LL-4T6	½"	15 mm	½" NPT	1.75 Lbs.	0.8 Kgs.	3.90
B-0206LL-6T6	¾"	20 mm	¾" NPT	2.5 Lbs.	1.1 Kgs.	7.10
B-0206LL-8T6	1"	25 mm	1" NPT	3.5 Lbs.	1.6 Kgs.	11.50

Sil Brazed Ends

Part Number	SBT Valve size Inches *	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-0206LL-4S6	½"	10 mm	Silver Braze	1.25 Lbs.	0.6 Kgs.	3.90
B-0206LL-6S6	¾"	15 mm	Silver Braze	1.75 Lbs.	0.8 Kgs.	7.10
B-0206LL-8S6	1"	20 mm	Silver Braze	2.5 Lbs.	1.1 Kgs.	11.50

* Nominal Size

206ULL

Bronze Globe Valves, Non-Extended Stem, Live Loaded Packing - Union Bonnet,

600 PSIG Cold Working Pressure For Selective Cold Gas Applications

Sil Brazed Ends

Part Number	SBT Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-206ULL-12S6	1½"	40 mm	Silver Braze	7 Lbs.	3.2 Kgs.	29.00
B-206ULL-16S6	2"	50 mm	Silver Braze	11.75 Lbs.	5.3 Kgs.	50.00

206BLL

Bronze Globe Valves, Non-Extended Stem, Live Loaded Packing - Bolted Bonnet,

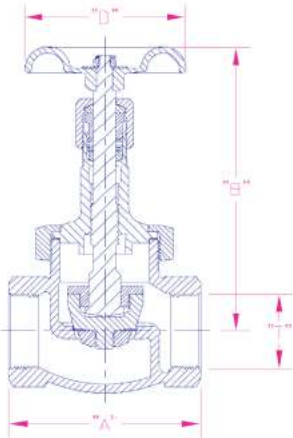
600 PSIG Cold Working Pressure For Selective Cold Gas Applications

Sil Brazed Ends

Part Number	SBT Valve size Inches	Valve Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-206BLL-12S6	1½"	40 mm	Silver Braze	7 Lbs.	3.2 Kgs.	29.00

Bronze Globe Valve for Cryogenic Service

Goddard 202X Series Including 206LL, 206GF, 206ULL



202 Series

202X

Pressure Rating 400 PSIG

Temperature Rating +150°F to -325°F

Non-Extended Valve for Cold Gas Applications

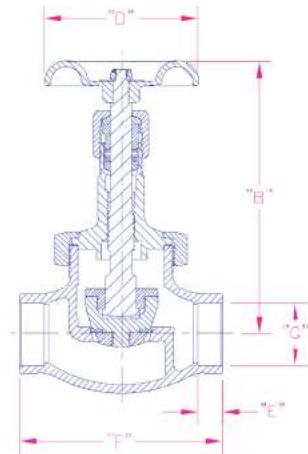
Conical Seat

Dimensional data

All Dimensional Data are in inches.

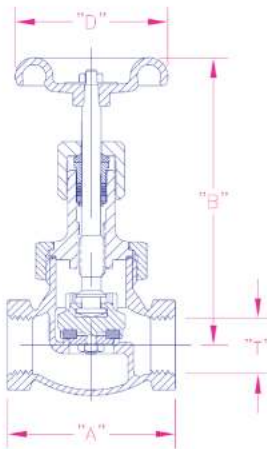
THREADED ENDS

Size	"A"	"B"	"D"	"T" NPT
1½"	4¾"	8⅝"	4"	1½"
2"	5¾"	9½"	4¾"	2"



SILVER BRAZED ENDS

Size	"B"	"D"	"E"	"F"	"G"
½"	4⅝"	2"	.38	3¼"	.628/.630
1"	4⅝"	2"	.44	4¼"	1.129/1.131
1½"	5"	2⅜"	.62	5¼"	1.629/1.632
2"	5¾"	2¾"	.66	6½"	2.129/2.132



206GF

Pressure Rating 600 PSIG

Temperature Rating +350°F to -325°F

Non-Extended Stem - GRAFOIL® Packing, Gasket and PFA Seat

Dimensional data

All Dimensional Data are in inches.

THREADED ENDS

Size	"A"	"B"	"D"	"T" NPT
¼"	2⅝"	4⅝"	2"	¼"
½"	2⅝"	5"	2⅜"	½"
¾"	3⅜"	5¾"	2¾"	¾"
1"	3¾"	6¾"	3"	1"
1½"	4¾"	8⅝"	4"	1½"
2"	5¾"	9½"	4¾"	2"

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Bronze Globe Valve for Cryogenic Service

Goddard 202X Series Including 206LL, 206GF, 206ULL

206LL

Pressure Rating 600 PSIG
 Temperature Rating +150° F to -325° F
 Live Load Packing

Dimensional Data
 All Dimensions are in Inches

THREADED ENDS

Size	"A"	"B"	"D"	"T" NPT
1/4"	2 5/8"	5"	2 3/8"	1/4"
3/8"	2 5/8"	5"	2 3/8"	3/8"
1/2"	2 5/8"	5"	2 3/8"	1/2"
3/4"	3 3/16"	5 3/4"	2 3/4"	3/4"
1"	3 3/4"	5 3/4"	3"	1"

SIL BRAZED ENDS

Size	"B"	"D"	"G"	"E"	"F"
1/4"	5"	2 3/8"	.378/.380	.26	2 3/8"
1/2"	5"	2 3/8"	.628/.630	.38	3 1/4"
3/4"	5 3/4"	2 3/4"	.878/.880	.41	4 1/4"

206ULL

Pressure Rating 600 PSIG
 Temperature Rating +150° F to -325° F
 Live Load Packing - Union Bonnet

Dimensional Data
 All Dimensions are in Inches

THREADED ENDS

Size	"A"	"B"	"D"	"T" NPT
1 1/2"	4 3/4"	8 5/8"	4"	1 1/2"
2"	5 3/4"	11 3/4"	4 3/4"	2"

206BLL

Pressure Rating 600 PSIG
 Temperature Rating +150° F to -325° F
 Live Load Packing - Bolted Bonnet

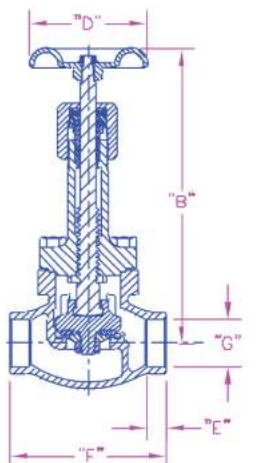
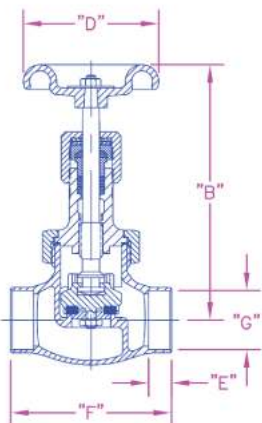
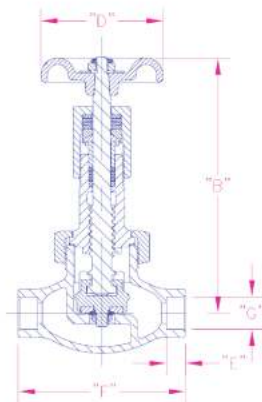
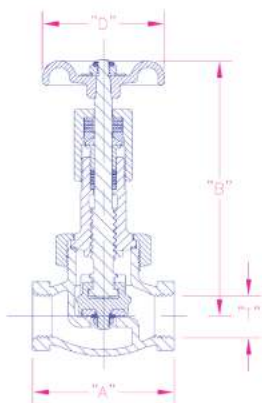
Dimensional Data
 All Dimensions are in Inches

SIL BRAZED ENDS

Size	"B"	"D"	"G"	"E"	"F"
1 1/2"	8 5/8"	4"	1.625/1.638	.63	5 1/4"

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Bronze Globe Valve for Cryogenic Service

Goddard 222 Series Including 226LL, 226GF, 226ULL

Features

- **Top Entry:** This union bonnet valve can be permanently installed in the line and serviced from the top. 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
- **Sizes:** ¼" through 3" (8mm through 80mm)
- **Ends:** Threaded (FNPT), Sil Braze Tube (SBT), Silver Braze Pipe, back brazed threaded pipe nipples
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F to 150°F (-196°C to +65°C)
- **Pressure Rating:** (Cold, Non-shock)
400 and 600 PSIG
Sizes 1½" to 3" PED approved per EN10204, 3.1
- **Kold-Seal™ Technology** assures tight seal preventing cryogen gas loss.
- **Extended stem** suitable for cold box, transport vehicles, pipelines, and customer service applications.
- **Live loaded option** improves life of asset and minimizes service costs.
- **Replaceable top works** means low maintenance costs.



Ordering Information

222X

Bronze Globe Valves, Extended Stem - Conical Seat, 400 PSIG Cold Working Pressure

Threaded End

Part Number	NPT size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-00222X-2T4	¼"	8 mm	Threaded	1.50 Lbs.	0.70 Kgs.	1.30
B-00222X-4T4	½"	15 mm	Threaded	1.50 Lbs.	0.70 Kgs.	3.25
B-00222X-6T4	¾"	20 mm	Threaded	3.00 Lbs.	1.40 Kgs.	6.25
B-00222X-8T4	1"	25 mm	Threaded	4.00 Lbs.	1.80 Kgs.	10.00
B-00222X-12T4	1½"	40 mm	Threaded	7.75 Lbs.	3.50 Kgs.	26.00
B-00222X-16T4	2"	50 mm	Threaded	12.50 Lbs.	5.70 Kgs.	45.00
B-00222X-20T4	2½"	63.5 mm	Threaded	61.00 Lbs.	27.70 Kgs.	50.00
B-00222X-24T4	3"	80 mm	Threaded	61.00 Lbs.	27.70 Kgs.	100.00

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Bronze Globe Valve for Cryogenic Service

Goddard 222 Series Including 226LL, 226GF, 226ULL

Sil Brazed End

Part Number	SBT size Inches	SBT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-00222X-4S4	½"	15 mm	Silver Braze	2.00 Lbs.	0.90 Kgs.	3.25
B-00222X-6S4	¾"	20 mm	Silver Braze	2.75 Lbs.	1.30 Kgs.	6.25
B-00222X-8S4	1"	25 mm	Silver Braze	3.75 Lbs.	1.70 Kgs.	10.00
B-00222X-12S4	1½"	40 mm	Silver Braze	7.25 Lbs.	3.30 Kgs.	26.00
B-00222X-16S4	2"	50 mm	Silver Braze	11.50 Lbs.	5.20 Kgs.	45.00
B-00222X-24S4	3"	80 mm	Silver Braze	58.00 Lbs.	26.40 Kgs.	100.00

226LL

Bronze Globe Valves, Live Load Packing, Extended Stem, 600 PSIG Cold Working Pressure

Threaded End

Part Number	NPT size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-0226LL-2T6	¼"	8 mm	Threaded	1.50 Lbs.	0.70 Kgs.	1.30
B-0226LL-3T6	⅜"	10 mm	Threaded	1.50 Lbs.	0.70 Kgs.	2.40
B-0226LL-4T6	½"	15 mm	Threaded	1.50 Lbs.	0.70 Kgs.	3.25
B-0226LL-6T6	¾"	20 mm	Threaded	3.00 Lbs.	1.40 Kgs.	6.25
B-0226LL-8T6	1"	25 mm	Threaded	4.00 Lbs.	1.80 Kgs.	10.00

Sil Brazed Ends

Part Number	SBT size Inches	SBT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-0226LL-4S6	½"	15 mm	Silver Braze	2.00 Lbs.	0.90 Kgs.	3.25
B-0226LL-6S6	¾"	20 mm	Silver Braze	2.75 Lbs.	1.30 Kgs.	6.25
B-0226LL-8S6	1"	25 mm	Silver Braze	3.75 Lbs.	1.70 Kgs.	10.00

226ULL

Bronze Globe Valves, Live Loaded Packing - Union Bonnet, Extended Stem, 600 PSIG Cold Working Pressure

Threaded End

Part Number	NPT size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-226ULL-12T6	1½"	40 mm	Threaded	7.75 Lbs.	3.50 Kgs.	26.00
B-226ULL-16T6	2"	50 mm	Threaded	12.50 Lbs.	5.70 Kgs.	45.00

Sil Brazed Ends

Part Number	SBT size Inches*	SBT Size mm*	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-226ULL-12S6	1½"	40 mm	Silver Braze	7.25 Lbs.	3.30 Kgs.	26.00
B-226ULL-16S6	2"	50 mm	Silver Braze	11.50 Lbs.	5.20 Kgs.	45.00

*Nominal Size

226XGF

Bronze Globe Valves, Extended Stem - Conical Seat Grafoil® Packing, Gasket and PFA Seat
600 PSIG Cold Working Pressure

Threaded End

Part Number	NPT size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
VB-226XGF-4T6	½"	15 mm	Threaded	1.50 Lbs.	0.70 Kgs.	3.25
VB-226XGF-6T6	¾"	20 mm	Threaded	3.00 Lbs.	1.40 Kgs.	6.25
VB-226XGF-8T6	1"	25 mm	Threaded	4.00 Lbs.	1.80 Kgs.	10.00
VB-22XGF-12T6	1½"	40 mm	Threaded	7.75 lbs.	3.5 Kgs.	26.00

226BLL

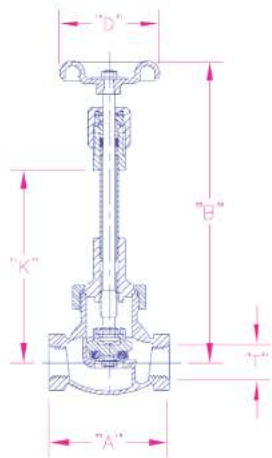
Bronze Globe Valves, Live Loaded Packing - Bolted Bonnet, Extended Stem, 600 PSIG Cold Working Pressure

Threaded End

Part Number	NPT size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-226BLL-12T6	1½"	40 mm	Threaded	7.75 Lbs.	3.50 Kgs.	26.00
B-226BLL-16T6	2"	50 mm	Threaded	12.50 Lbs.	5.70 Kgs.	45.00

Bronze Globe Valve for Cryogenic Service

Goddard 222 Series Including 226LL, 226GF, 226ULL



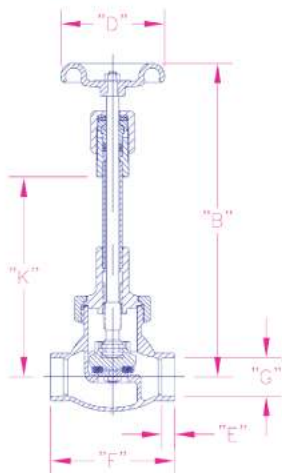
226ULL

Pressure Rating 600 PSIG
Temperature Rating +150°F to -325°F

Dimensional data
All Dimensional Data are in inches.

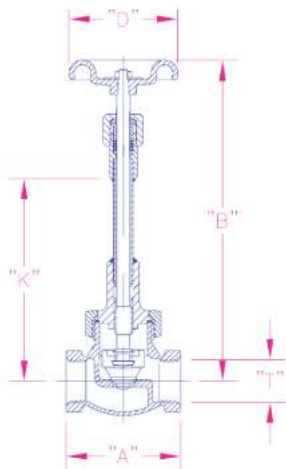
THREADED ENDS

Size	"A"	"B"	"D"	"T" NPT	"K"
1½"	4¾"	14⅝"	4"	1½"	9⅛"
2"	5¾"	15⅝"	4¾"	2"	9⅛"



SIL BRAZED END

Size	"B"	"D"	"E"	"F"	"G"	"K"
1½"	14⅝"	4"	⅝"	5¼"	1.63"	9⅛"
2"	15⅝"	4¾"	2⅜"	6½"	2.13"	9⅛"



226XGF

Pressure Rating 600 PSIG
Temperature Rating +150°F to -325°F

Dimensional data
All Dimensional Data are in inches.

THREADED ENDS

Size	"A"	"B"	"D"	"T" NPT	"K"
½"	2⅝"	8¼"	2⅜"	½"	4⅞"
¾"	3 ⅜"	8⅝"	2¾"	¾"	4⅜"
1"	3¾"	10½"	3"	1"	6½"

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

226LL

Pressure Rating 600 PSIG

Temperature Rating +150° F to -325° F

Dimensional Data

All Dimensions are in Inches

THREADED ENDS

Size	"A"	"B"	"D"	"T" NPT	"K"
1/4"	2 5/16"	7 9/16"	2"	1/4"	4 19/32"
3/8"	2 5/16"	7 9/16"	2"	3/8"	4 19/16"
1/2"	2 5/8"	8 1/4"	2 3/8"	1/2"	4 7/8"
3/4"	3 3/16"	8 5/8"	2 3/4"	3/4"	4 13/16"
1"	3 3/4"	10 1/2"	3"	1"	6 1/2"

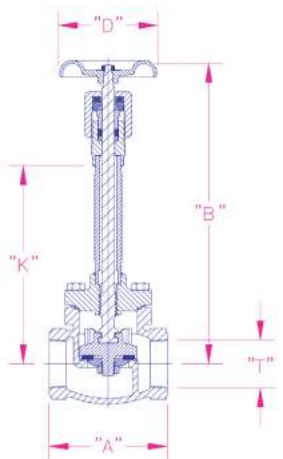
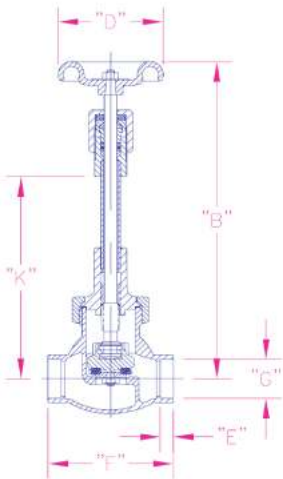
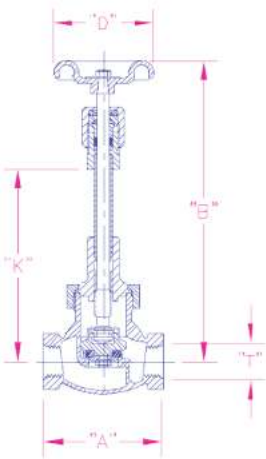
*Bolted Bonnet

SIL BRAZED ENDS

Size	"B"	"D"	"E"	"F"	"G"	"K"
1/2"	8 1/4"	2 3/8"	3/8"	3 1/4"	.63	4 7/8"
3/4"	8 5/8"	2 3/4"	13/32"	3 3/4"	.88	4 13/16"
1"	10 1/2"	3"	7/16"	4 1/4"	1.13	6 1/2"

THREADED ENDS - BOLTED BONNET

Size	"A"	"B"	"D"	"T" NPT	"K"
1 1/2"	4 3/4"	14 5/8"	4"	1 1/2"	9 11/16"
2"	5 3/4"	14 15/16"	4 3/4"	2"	9 11/16"



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Stainless Steel Swing Check Valve for Cryogenic Service

Goddard 886 Series

Features

- **Top Entry:** This bolted bonnet valve can be permanently installed in the line and services from the top
- **Construction:** Designed to prevent back flow in cryogenic systems. Higher fluid capacity (CV) than poppet or lift check valves. 316L stainless steel investment cast body, cap and arm
- **Sizes:** ½" through 4" (15mm through 100mm)
- **Ends:** Socket weld and butt weld schedule 10 and 40
- **Temperature Rating:** -325°F to 150°F (-196°C to +66°C)
- **Pressure Rating:** (Cold, Non-shock)
400 PSIG (27 Bar) ½" - 2"
275 PSIG (19 Bar) 150# ANSI Class 3" and 4"
720 PSIG (50 Bar) 300# ANSI Class 3" and 4"
PED Approved, Approved for US and Canada
- **Note:** Do not use for reciprocating gas service.
- Our investment cast stainless steel is specified by leading industrial gas companies for storage tank and yard operations.
- Ideal for liquid atmospheric gases and LNG storage and handling.
- High cycle life and superior sealing.
- Valves for hydrogen service can be supplied.
(-425°F to +350°F)



Ordering Information

886

Stainless Steel Swing Check Valves

Soft Seat

GRAFOIL® Gasket - Hydrogen Service - Socket Weld

Part Number	Valve Size		End Connection	Seat	Pressure Rating	Estimated CV	Weight Lbs.
	Inches	mm					
S-0886GF-4S	½"	15 mm	Socket Weld	Soft	400 (26 Bar)	4.50	3 Lbs.
S-0886GF-6S	¾"	20 mm		Soft	400 (26 Bar)	12.00	6 Lbs.
S-0886GF-8S	1"	25 mm		Soft	400 (26 Bar)	61.00	11 Lbs.
S-0886GF-12S	1½"	40 mm		Soft	400 (26 Bar)	99.00	17 Lbs.

PTFE Gasket - Socket Weld

Part Number	Valve Size		End Connection	Seat	Pressure Rating	Estimated CV	Weight Lbs.
	Inches	mm					
S-000886-4S	½"	15 mm	Socket Weld	Soft	400 (26 Bar)	4.50	3 Lbs.
S-000886-6S	¾"	20 mm		Soft	400 (26 Bar)	12.00	6 Lbs.
S-000886-8S	1"	25 mm		Soft	400 (26 Bar)	61.00	11 Lbs.
S-000886-12S	1½"	40 mm		Soft	400 (26 Bar)	99.00	17 Lbs.

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Stainless Steel Swing Check Valve for Cryogenic Service Goddard 886 Series

PTFE Gasket - Butt Weld

Part Number	Valve Size		End Connection	Seat	Butt Weld Schedule	Pressure Rating	Estimated CV	Weight Lbs.
	Inches	mm						
S-000886-4WA	½"	15 mm	Butt Weld	Soft	10	400 (26 Bar)	4.50	3 Lbs.
S-000886-8WA	1"	25 mm			10	400 (26 Bar)	18.00	11 Lbs.
S-000886-12WA	1½"	40 mm			10	400 (26 Bar)	61.00	17 Lbs.
S-000886-16W3A	2"	50 mm			10	720 (50 Bar)	99.00	17 Lbs.
S-000886-24WA	3"	80 mm			10	275 (19 Bar)	255.00	47 Lbs.
S-000886-24WJ	3"	80 mm			40	275 (19 Bar)	225.00	46 Lbs.
S-000886-32W3J	4"	100 mm			40	720 (50 Bar)	475.00	95 Lbs.
S-000886-32WA	4"	100 mm			10	275 (19 Bar)	475.00	95 Lbs.

886M

Stainless Steel Swing Check Valves - Metal Seat

GRAFOIL® Gasket - Hydrogen Service

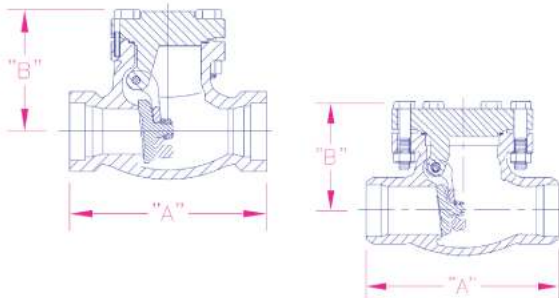
Part Number	Valve Size		End Connection	Seat	Pressure Rating	Estimated CV	Weight Lbs.
	Inches	mm					
S-00886M-4S3	½"	15 mm	Socket Weld	Metal	720 (50 Bar)	4.50	3 Lbs.
S-00886M-8S3	1"	25 mm			720 (50 Bar)	18.00	11 Lbs.
S-00886M-12S3	1½"	40 mm			720 (50 Bar)	61.00	17 Lbs.

Butt Weld Ends

Part Number	Valve Size		End Connection	Seat	Butt Weld Schedule	Pressure Rating	Estimated CV	Weight Lbs.
	Inches	mm						
S-0886M-16W3A	2"	50 mm	Butt Weld	Metal	10	720 (50 Bar)	99.00	17 Lbs.
S-00886M-24W3J	3"	80 mm			40	720 (50 Bar)	225.00	46 Lbs.
S-00886M-24W3A	3"	80 mm			10	720 (50 Bar)	225.00	46 Lbs.
S-00886M-32WA	4"	100 mm			10	275 (19 Bar)	475.00	95 Lbs.
S-00886M-32W3J	4"	100 mm	Butt Weld		40	720 (50 Bar)	475.00	95 Lbs.

Butt Weld Ends with GRAFOIL® Gasket for Hydrogen Service

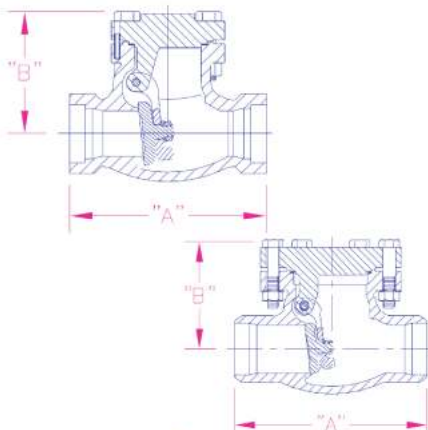
Part Number	Valve Size		End Connection	Seat	Butt Weld Schedule	Pressure Rating	Estimated CV	Weight Lbs.
	Inches	mm						
S-886MGF-16W3A	2"	50 mm	Butt Weld	Metal	10	720 (50 Bar)	99.00	17 Lbs.
S-886MGF-24W3A	3"	80 mm	Butt Weld		10	720 (50 Bar)	225.00	46 Lbs.



886

Pressure Rating 300 PSIG Non-Shock Cold, Temperature Rating +150° F to - 325° F
All Dimensional Data are in inches.

Size	"A"	"B"
½"	4¼"	2½"
¾"	5"	3¼"
1"	5"	3¼"
1½"	6½"	4"
2"	8"	4½"



886M

Service 300 Class 720 PSI Non-Shock Cold, Temperature Rating +150° F to - 325° F
All Dimensional Data are in inches.

Size	"A"	"B"	Butt Weld End Schedule
1½"	6½"	4"	10
2"	8"	4½"	10
3"	9½"	5¾"	10 & 40
4"	11½"	8¾"	10
4"	14"	8¾"	40

Size	"A"	"B"	End	End Dimension
½"	2 7/16"	4¼"	Socket Weld	SCH 10
½"	2 7/16"	4¼"		½" Pipe Socket

Bronze Swing Check Valve for Cryogenic Service Including 846M Goddard 840 Series

Features

- **Top Entry:** This union bonnet valve can be permanently installed in the line and services from the top
- **Construction:** Designed to prevent back flow in cryogenic systems. Higher fluid capacity (CV) than poppet or lift check valves. Bronze body and internals. Rugged construction for long life and minimal down time
- **Sizes:** ½" through 2" (15mm through 50mm)
- **Ends:** Threaded (FNPT), or with Sil Brazed Tube (SBT)
SCH-10, Threaded back brazed pipe nipples in 1" increments up to 6"
SCH-40, Threaded back brazed pipe nipples in 1" increments up to 6"
SCH-80, Threaded back brazed pipe nipples in 1" increments up to 6"
- **Temperature Rating:** -325°F to +150°F (-196°C to +65°C)
- **Pressure Rating:** (Cold, Non-shock)
840 Series 400 PSIG
846M Series 600 PSIG
Sizes 1½" to 2" PED Approved Per EN10204 3.1

Note: Do not use for reciprocating gas service.



Ordering Information

840

Bronze Swing Check Valves - Soft Seated, Threaded, Sil Brazed Ends, Back Brazed Pipe Nipples
400 PSIG Cold Working Pressure

Threaded Ends

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000840-4T	½"	15 mm	Threaded	2.00 Lbs.	0.91 Kgs.	4.50
B-000840-6T	¾"	20 mm	Threaded	4.00 Lbs.	1.81 Kgs.	7.00
B-000840-8T	1"	25 mm	Threaded	4.50 Lbs.	2.04 Kgs.	10.00
B-000840-12T	1½"	40 mm	Threaded	8.50 Lbs.	3.86 Kgs.	40.00
B-000840-16T	2"	50 mm	Threaded	14.50 Lbs.	6.58 Kgs	100.00

Silver Brazed - Pipe Nipple

Part Number	SBT Size Inches*	SBT Size mm*	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000840-4S	½"	15 mm	Silver Braze	2.50 Lbs.	1.13 Kgs.	4.50
B-000840-6S	¾"	20 mm	Silver Braze	4.5 Lbs.	2.05 Kgs.	7.00
B-000840-8S	1"	25 mm	Silver Braze	5.25 Lbs.	2.38 Kgs.	10.00
B-000840-12S	1½"	40 mm	Silver Braze	10.75 Lbs.	4.88 Kgs.	40.00
B-000840-16S	2"	50 mm	Silver Braze	17.50 Lbs.	7.94 Kgs.	100.00

* Nominal Size

846M

Bronze Swing Check Valves - Metal Seated, Threaded, Sil Brazed Ends, Back Brazed Pipe Nipples
600 PSIG Cold Working Pressure

Threaded Ends

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000846M-4T6	½"	15 mm	Threaded	2.00 Lbs.	0.91 Kgs.	4.50
B-000846M-8T6	1"	25 mm	Threaded	4.50 Lbs.	2.04 Kgs.	10.00
B-000846M-12T6	1½"	40 mm	Threaded	8.50 Lbs.	3.86 Kgs.	40.00
B-000846M-16T6	2"	50 mm	Threaded	14.50 Lbs.	6.58 Kgs	100.00

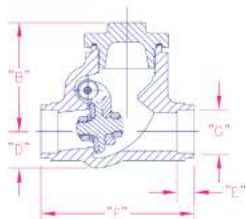
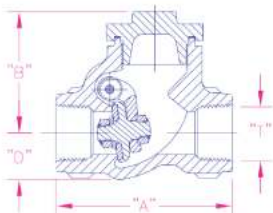
Bronze Swing Check Valve for Cryogenic Service Including 846M Goddard 840 Series

Silver Brazed - Pipe Nipple

Part Number	SBT Size Inches*	SBT Size mm*	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000846M-4S6	1/2"	15 mm	Silver Braze	2.50 Lbs.	1.13 Kgs.	4.50
B-000846M-6S6	3/4"	20 mm	Silver Braze	4.50 Lbs.	2.04 Kgs.	7.00
B-000846M-8S6	1"	25 mm	Silver Braze	5.25 Lbs.	2.38 Kgs.	10.00
B-000846M-12S6	1 1/2"	40 mm	Silver Braze	10.75 Lbs.	4.88 Kgs.	40.00
B-000846M-16S6	2"	50 mm	Silver Braze	17.50 Lbs.	7.94 Kgs.	100.00

* Nominal Size

- Contact company for threaded, back brazed pipe nipple information



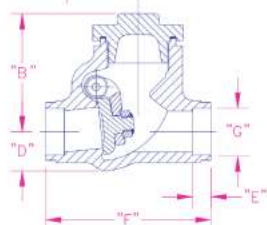
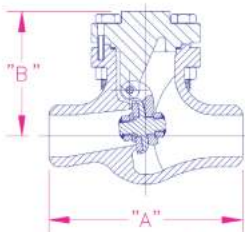
840 Series

Pressure Rating MSS SP-80 Class 200
MAWP 400 PSIG Non-Shock Cold
Temperature Rating +150°F to -325°F

Dimensional data

All Dimensional Data are in inches.

Size	"A"	"B"	"D"	"T" NPT	"E"	"F"	"G"
1/2"	3.00"	2.13"	3/4"	1/2"	.38"	2.94"	.63"
3/4"	3.69"	2.81"	1.12"	3/4"	.41"	3.60"	.88"
1"	4.00"	2.81"	1.13"	1"	.45"	4.00"	1.13"
1 1/2"	5.03"	3.63"	1.44"	1 1/2"	.63"	5.03"	1.63"
2"	6.35"	4.34"	1.84"	2"	.66"	6.35"	2.13"



846M Series

Pressure Rating MSS SP-80 Class 300
MAWP 600 PSIG Non-Shock Cold
Temperature Rating +150°F to -325°F

Dimensional data

All Dimensional Data are in inches.

Size	"A"	"B"	"D"	"T" NPT	"E"	"F"	"G"
1/2"	3.00"	2.13"	3/4"	1/2"	.38"	2.94"	.63"
3/4"	3.69"	2.81"	1 1/8"	3/4"	.41"	3.60"	.88"
1"	4.00"	2.81"	1 1/8"	1"	.45"	4.00"	1.13"
1 1/2"	5.03"	3.63"	1 7/16"	1 1/2"	.63"	5.03"	1.63"
2"	6.35"	4.34"	1 27/32"	2"	.66"	6.35"	2.13"

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