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



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 C
B-000302-4T4	1/2"	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-000302-454	1/2"	15	Silver Braze	1.25	0.60	19.80
B-000302-6S4	3/4"	20	Silver Braze	2.25	1.00	36.00
B-000302-8S4	1"	25	Silver Braze	3.00	1.40	60.80
B-000302-1254	11/2"	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	3/4"	20	Threaded	2.25	1.00	36.00
B-000306-8T6	1"	25	Threaded	3.00	1.40	60.80
B-000306-12T6	11/2"	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 C
B-000310-20T	21/2"	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

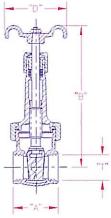
300 PSIG Bronze Body, Extended Bonnet, Solid Wedge, Soft Seat

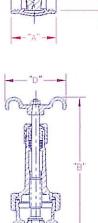
Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated CV
B-000310X-20T	2½"	65	- Threaded	14.50	6.60	372.00
B-000310X-24T	3"	80	Threaded	22.00	10.00	588.00

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

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

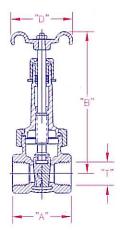
All dimensions are in inches

Threaded End (NPT)

Size	"A"	"B"	"D"	"T" NPT
1/2"	2.34"	5.81"	2.37"	1/2"
3/4"	2.50"	6.94"	2.75	3/4"
1"	2.84	8.43"	3.00"	1"
1½"	3.43"	11.19"	4.00"	1½"
2"	3.81"	13.19"	4.75"	2"
21/2"	4.68"	15.81"	5.25"	2½"
3"	5.12"	18.25"	6.12"	3"

Sil Braze End

Size	"A"	"B"	"D"	"T" NPT
1/2"	2.50"	5.81"	2.37"	.38"
3/4"	3"	6.94"	2.75"	.40"
1"	3.25"	8.43"	3"	.43"
11/2"	4"	11.19"	4"	.62"
2"	4.5"	13.19"	4.75"	.65"
21/2"	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
3/4"	2.5"	6.93"	23/4"	3/4"
1"	2.84"	8.43"	3"	1"
11/2"	3.43"	11.18"	4"	1½"
2"	3.81"	13.81"	43/4"	2"