



Bronze Gate Valves for Cryogenic Service

302, 306, 310 & 310X Series

Application

The RegO Goddard 302, 306, 310, & 310X 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
- **Construction:**
Bronze cast body and bonnet
Rugged construction for long life
Straight through design for high C_v
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:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -320°F - +150°F (-196°C +65°C)
- Cleaned for Oxygen Service per CGA G-4.1.
- **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
- **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 C_v rating in the industry.

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

310, 310X Extended stem ideal for cryogenic supply applications



302 Series





Bronze Gate Valves for Cryogenic Service

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
Temperature Rating -325°F to +150° F

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		17.50	8.00	372.00
B-000302-24T4	3"	80		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		2.25	1.00	36.00
B-000302-8S4	1"	25		3.00	1.40	60.80
B-000302-12S4	1½"	40		6.00	2.70	152.00
B-000302-16S4	2"	50		9.50	4.30	245.00
B-000302-20S4	2½"	65		14.50	6.60	372.00
B-000302-24S4	3"	80		22.00	10.00	588.00

*Nominal Size

306 Series

600 psig Bronze Body, Non-Extended Bonnet, Split Wedge
Temperature Rating -325°F to +150° F

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		3.00	1.40	60.80
B-000306-12T6	1½"	40		6.00	2.70	152.00
B-000306-16T6	2"	50		9.50	4.30	245.00

310 Series

300 psig Bronze Body, Extended Bonnet, Solid Wedge, Soft Seat
Temperature Rating -325°F to +150° F

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		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
Temperature Rating -325°F to +150° F

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
B-00310X-20T	2½"	65	Threaded	14.50	6.60	372.00
B-00310X-24T	3"	80		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

SB-00310X

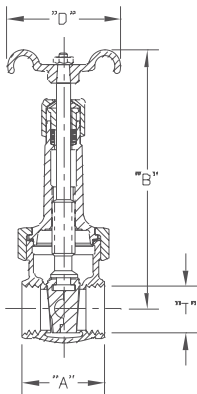
Stainless Steel Body - Bronze Topworks
Temperature Rating -325°F to +150° F

Part Number	SBT Size Inches *	SBT Size mm *	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv
SB-00310X-24SW	3"	80	Socketweld	22.00	10.00	588.00



Bronze Gate Valves for Cryogenic Service

302, 306 Series

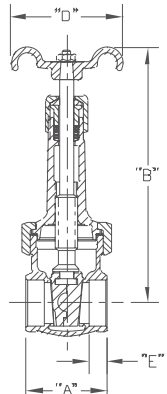


302 Series

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

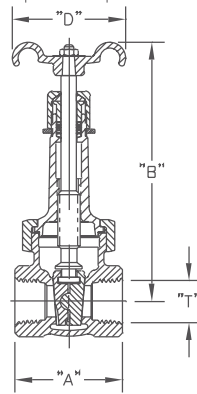
Threaded End (NPT)

Size	"A"	"B"	"D"	"T" NPT
½"	2.34"	5.81"	2.37"	½"
2½"	4.68"	15.81"	5.25"	2½"
3"	5.12"	18.25"	6.12"	3"



Sil Braze End

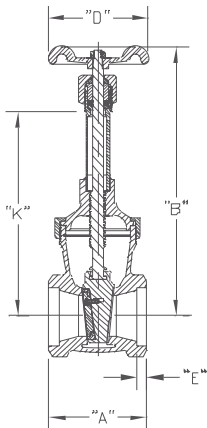
Size	"A"	"B"	"D"	"E"
½"	2.50"	5.81"	2.37"	.38"
¾"	3"	6.94"	2.75"	.40"
1"	3.25"	8.43"	3"	.43"
1½"	4"	11.19"	4"	.62"
2"	4.5"	13.19"	4.75"	.65"
2½"	5.25"	15.81"	5.25"	.78"
3"	6"	18.25"	6.12"	.82"



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"



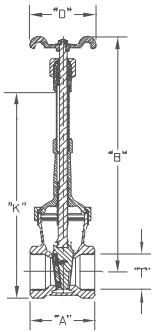
SB-00310X-24SW Sil Braze End (Stainless Steel Body)

Size	"A"	"B"	"D"	"E"	"K"
3"	6"	20.38"	6.12"	0.63"	12.5"

Bronze Gate Valves for Cryogenic Service 310 & 310X Series

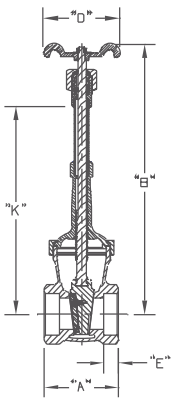
310 Series

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"
3"	6"	25.38"	6.12"	16.30"

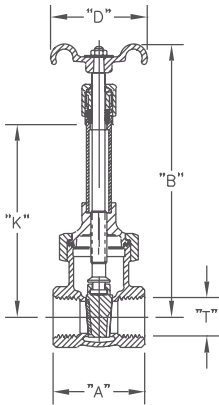


Sil Bronze End

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

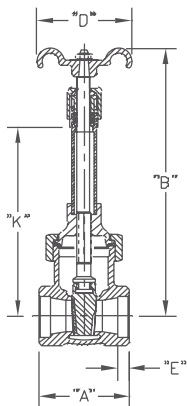
310X Series

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 Bronze End

Size	"A"	"B"	"D"	"E"	"K"
3"	6"	20.38"	6.12"	0.83"	16.3"