

# 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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### 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

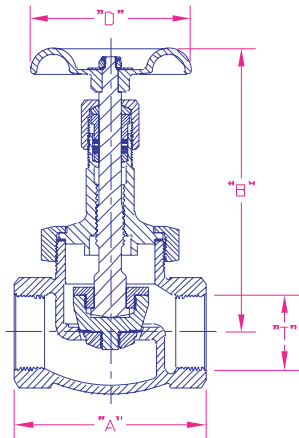
### 206BLL

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

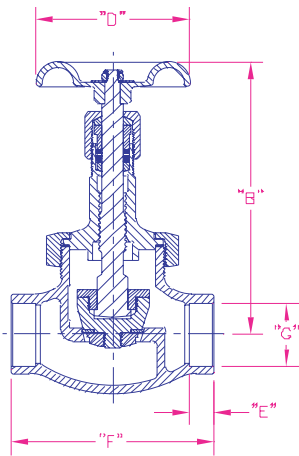
### 202X

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.

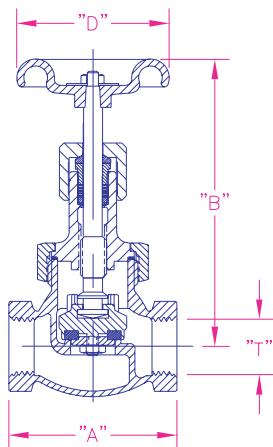
### THREADED ENDS

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	¾"	.628/.630
1"	4⅝"	2"	.44	1¼"	1.129/1.131
1½"	5"	2⅜"	.62	5¼"	1.629/1.632
2"	5¾"	2¾"	.66	6½"	2.129/2.132



## 206GF

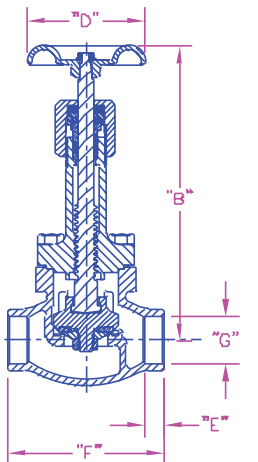
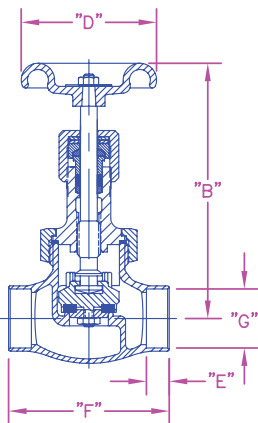
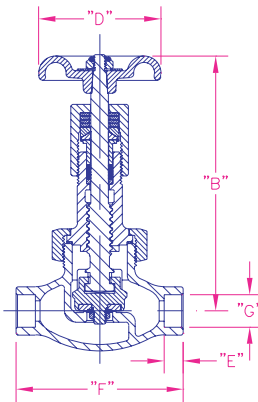
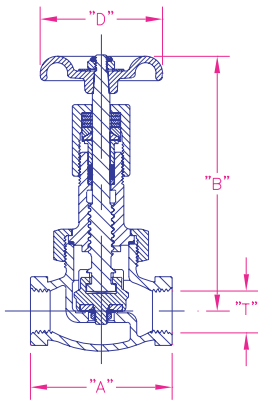
Pressure Rating 600 PSIG  
Temperature Rating +350°F to -325°F  
Non-Extended Stem - GRAFOIL® Packing, Gasket and PFA Seat  
Dimensional data

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"	3 ⅜/16"	5¾"	2¾"	¾"
1"	3¾"	6¾"	3"	1"
1½"	4¾"	8⅝"	4"	1½"
2"	5¾"	9½"	4¾"	2"

# 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 <sup>5</sup> / <sub>8</sub> "	5"	2 <sup>3</sup> / <sub>8</sub> "	1/4"
3/8"	2 <sup>5</sup> / <sub>8</sub> "	5"	2 <sup>3</sup> / <sub>8</sub> "	3/8"
1/2"	2 <sup>5</sup> / <sub>8</sub> "	5"	2 <sup>3</sup> / <sub>8</sub> "	1/2"
3/4"	3 <sup>3</sup> / <sub>16</sub> "	5 <sup>3</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>4</sub> "	3/4"
1"	3 <sup>3</sup> / <sub>4</sub> "	5 <sup>3</sup> / <sub>4</sub> "	3"	1"

### SIL BRAZED ENDS

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

## 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 <sup>3</sup> / <sub>4</sub> "	8 <sup>5</sup> / <sub>8</sub> "	4"	1 1/2"
2"	5 <sup>3</sup> / <sub>4</sub> "	11 <sup>3</sup> / <sub>4</sub> "	4 <sup>3</sup> / <sub>4</sub> "	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 <sup>5</sup> / <sub>8</sub> "	4"	1.625/1.638	.63	5 <sup>1</sup> / <sub>4</sub> "