



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

Application

The RegO Goddard 846M and 840 series check valve is designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Compatible with oxygen, nitrogen, CO2, argon and LNG.



Features

- **Top Entry:** This swing check valve can be permanently installed in the line and serviced 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:** -320°F to +150°F (-196°C to +65°C)
- **Cleaned for Oxygen Service** per CGA G-4.1.
- **Pressure Rating:** (Cold, Non-shock)
840 Series 400 psig (27.6 barg)
846M Series 600 psig (41.4 barg)
Sizes 1½" to 2" PED Approved

Note: Do not use for reciprocating gas service.

- **Cracking Pressure:** 0.5 psig (.03 barg)



840 Series

Ordering Information

840

Bronze Swing Check Valves - Soft Seated, Threaded, Sil Brazed Ends, Threaded and 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		4.00 Lbs.	1.81 Kgs.	7.00
B-000840-8T	1"	25 mm		4.50 Lbs.	2.04 Kgs.	10.00
B-000840-12T	1½"	40 mm		8.50 Lbs.	3.86 Kgs.	40.00
B-000840-16T	2"	50 mm		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		4.5 Lbs.	2.05 Kgs.	7.00
B-000840-8S	1"	25 mm		5.25 Lbs.	2.38 Kgs.	10.00
B-000840-12S	1½"	40 mm		10.75 Lbs.	4.88 Kgs.	40.00
B-000840-16S	2"	50 mm		17.50 Lbs.	7.94 Kgs.	100.00

* Nominal Size

846M

Bronze Swing Check Valves - Metal Seated, Threaded, Sil Brazed Ends, Threaded and 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-00846M-4T6	½"	15 mm	Threaded	2.00 Lbs.	0.91 Kgs.	4.50
B-00846M-8T6	1"	25 mm		4.50 Lbs.	2.04 Kgs.	10.00
B-00846M-12T6	1½"	40 mm		8.50 Lbs.	3.86 Kgs.	40.00
B-00846M-16T6	2"	50 mm		14.50 Lbs.	6.58 Kgs.	100.00

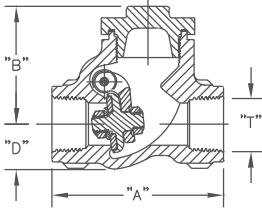
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Silver Brazed - Pipe Nipple

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		4.50 Lbs.	2.04 Kgs.	7.00
B-000846M-8S6	1"	25 mm		5.25 Lbs.	2.38 Kgs.	10.00
B-000846M-12S6	1 1/2"	40 mm		10.75 Lbs.	4.88 Kgs.	40.00
B-000846M-16S6	2"	50 mm		17.50 Lbs.	7.94 Kgs.	100.00

* Nominal Size

- Contact company for threaded, back brazed pipe nipple information



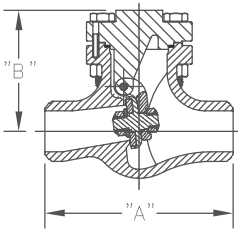
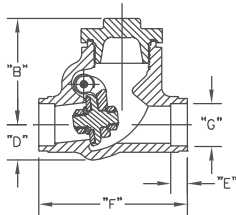
840 Series

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 1/4"	3/4"	.41"	3.60"	.88"
1"	4.00"	2.81"	1 1/4"	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 7/32"	2"	.66"	6.35"	2.13"

