

SERIES	DESCRIPTION	PAGE
BRONZE		
7K-100 SERIES	Threaded Full Port Bronze with Drain	H-5
71-500 SERIES	Threaded Bronze Spring Return Handle	H-6
75-100 SERIES	Threaded Bronze Pad Locking Valve	H-8
7K-100-SV SERIES	Threaded Full Port Bronze with Safety Vent (W/Threaded Port)	H-10
77-100-SV SERIES	Threaded Bronze Full Port with Safety Vent	H-11
78-124 & 78-125	Threaded Bronze 5-Port Fuel Selector	H-12
78-248, 250, 256, 438	Threaded Bronze Surface Mount	H-13
78-257 THRU 78-267	M x F Threaded Brass and Bronze Instrumentation	H-14
78-621 THRU 78-625	Threaded Bronze Irrigation	H-15
CARBON STEEL		
7A-130-26 SERIES	Threaded Dry Chlorine Carbon Steel with Ni-Cu Ball & Stem	H-3
89-500 SERIES	Threaded Carbon Steel Spring Return Handle	H-16
STAINLESS STEEL		
7H-800 SERIES	M x F Threaded Full Port Stainless Steel	H-4
76-500 SERIES	Threaded Stainless Steel Spring Return Handle	H-9
NICKEL		
74-100 SERIES	Threaded Chemical Resistant Nickel	H-7
UL LISTED CARBON STEEL		
73-300 SERIES	Carbon Steel Double Union End Ball Valve	H-17
73-400 SERIES	Socket Weld Carbon Steel, Double Union End	H-18
489-100 SERIES	Threaded Cast Carbon Steel	H-19
87A/88A SERIES	ASME 150 & 300 Flanged	D-4



SECTION H

SPECIALTY BALL VALVES



7A-130-26 SERIES

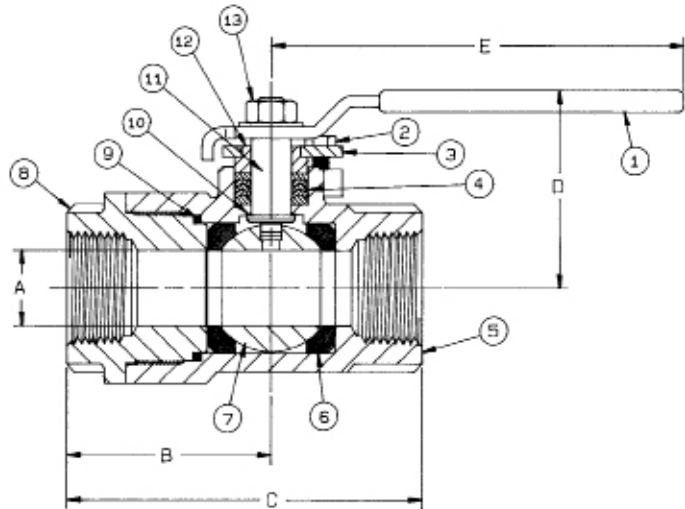
CARBON STEEL DRY CHLORINE BALL VALVE W/ NI-CU BALL & STEM



Female NPT Thread. 400 CWP (psig), Cold Non-Shock.
For Use With Dry Chlorine Gas and Dry Liquid.
Complies With Recommendations of Chlorine Institute Pamphlet No. 6.
MSS SP-110 Compliant.

FEATURES

- Chevron style stem packing
- Ni-Cu ball and stem
- Investment cast parts
- Zinc phosphate corrosion protection
- Blowout-proof stem design
- Bolted, adjustable packing gland
- Vented ball



STANDARD MATERIAL LIST

	PART	MATERIAL
1	Lever and grip	304 SS w/vinyl
2	Bolt (2)	Zinc Plated Steel
3	Gland plate	304 SS
4	Packing set	PTFE, Chevron style
5	Body	A216-WCB
6	Seats (2)	RPTFE
7	Ball	B164
8	Retainer	A216-WCB
9	Body seal	RPTFE
10	Stem bearing	RPTFE
11	Stem	B164
12	Packing gland	A276-316
13	Lever nut	18-8 SS

Pressure/Temperature Ratings - Page M-16, Graph No. 17

DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	WT.
7A-131-26	1/4"	0.43	1.56	2.75	1.93	3.87	1.25
7A-132-26	3/8"	0.50	1.56	2.75	1.93	3.87	1.21
7A-133-26	1/2"	0.50	1.56	2.75	1.93	3.87	1.14
7A-134-26	3/4"	0.68	2.00	3.50	2.31	4.87	2.11
7A-135-26	1"	0.87	2.37	4.12	2.43	4.87	2.94
7A-136-26	1-1/4"	1.00	2.24	4.24	3.00	5.50	4.40
7A-137-26	1-1/2"	1.25	2.65	5.13	3.38	8.00	7.04
7A-138-26	2"	1.50	3.25	6.00	3.67	8.00	10.86

Male x Female NPT Thread, 800 CWP (psig), Cold Non-Shock.
125 psig Saturated Steam.
Vacuum Service to 29 inches Hg.
MSS SP-110 Compliant.

FEATURES

- 316 SS ball & stem
- MPTFE packing
- PTFE seats

- Blowout-proof stem design
- Adjustable packing gland
- Threaded drain port

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

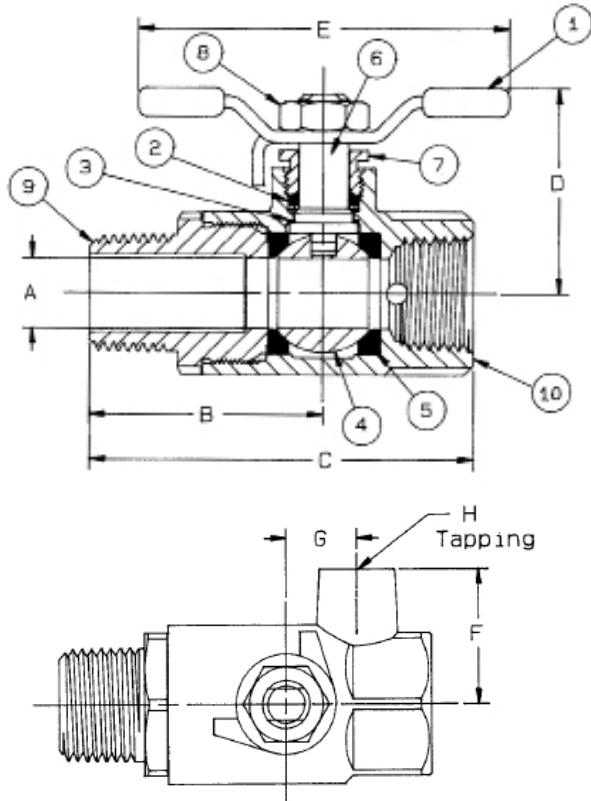
- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-31-	7H Series w/Boss NOT Drilled & Tapped	1/4" to 1"

Pressure/Temperature Ratings - Page M-18, Graph No. 21

STANDARD MATERIAL LIST

	PART	MATERIAL
1	T-handle & grip	SS
2	Stem packing	MPTFE
3	Stem bearing	RPTFE
4	Ball	A276-316
5	Seat (2)	PTFE
6	Stem	A276-316
7	Gland screw	A276-316
8	Lever nut	304 SS
9	Retainer	A276-316
10	Body	A351-CF8M



DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	F	G	H	WT.
7H-801-01	1/4"	0.37	1.47	2.46	1.39	2.56	0.93	0.53	1/8 NPT	0.65
7H-802-01	3/8"	0.37	1.55	2.54	1.39	2.56	0.93	0.53	1/8 NPT	0.62
7H-803-01	1/2"	0.50	1.79	2.83	1.45	2.56	1.00	0.53	1/8 NPT	0.73
7H-804-01	3/4"	0.75	2.01	3.42	2.08	3.25	1.01	0.75	1/8 NPT	0.86
7H-805-01	1"	1.00	2.39	4.17	2.38	3.93	1.12	0.94	1/8 NPT	1.65

Female NPT Thread with Female NPT threaded drain port.
Recommended for air services.
Rated +50°F to 200°F, 0-125 psig.

FEATURES

- Adjustable packing
- Blowout-proof stem design
- RPTFE seats and stuffing box ring

- Chromium plated ball
- Mounting pad for easy actuator mounting

OPTIONS AVAILABLE

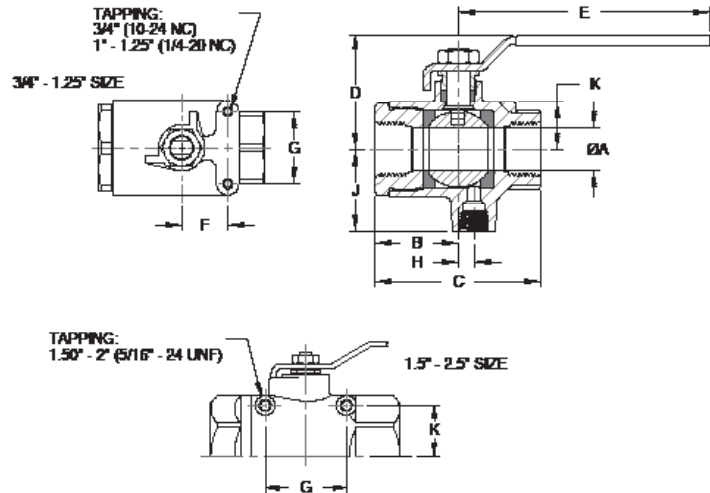
(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01-	Standard Configuration	All
-02-	Stem Grounded	1/4" to 2-1/2"
-04-	2-1/4" Stem Extension (Carbon Steel, Zinc Plated)	1/4" to 2-1/2"
-07-	Steel Tee Handle	1/4" to 1-1/4"
-08-	90° Reversed Stem	1/4" to 2-1/2"
-10-	SS Lever & Nut	1/4" to 2-1/2"
-15-	Wheel Handle, Steel	1/4" to 1-1/4"
-16-	Chain Lever, Vertical	3/4" to 2-1/2"
-17-	Rough Chrome Plated	1/4" to 2-1/2"
-18-	Plain Yellow Grip	1/4" to 2-1/2"
-24-	Graphite Packing	1/4" to 2-1/2"
-27-	SS Latch-Lock Lever & Nut	1/4" to 2-1/2"
-30-	Cam-Lock & Grounded	1/4" to 1-1/4"
-32-	SS Tee Handle & Nut	1/4" to 1-1/4"
-35-	PTFE Trim	3/4" to 2"
-40-	Cyl-Loc & Grounded	1/4" to 1-1/4"
-45-	Less Lever and Nut	1/4" to 2-1/2"
-46-	Latch Lock Lever - Closed Position	1/4" to 2-1/2"
-47-	SS Oval latch-Lock Handle & Nut	1/4" to 3/4"
-48-	SS Oval Handle (No Latch) & Nut	1/4" to 2"
-49-	No Lubrication. Assembled Dry.	1/4" to 2-1/2"
-50-	2-1/4" CS Locking Stem Extension	1/4" to 2-1/2"
-56-	MPTFE Seats and Packing	1/4" to 2-1/2"
-57-	Oxygen Cleaned	1/4" to 2-1/2"
-58-	Chain Lever - Horizontal	3/4" to 2-1/2"
-60-	Grounded Ball & Stem	1/4" to 2-1/2"
-63-	NPT x Solder/Socketweld	1/4" to 2-1/2"
-92-	Balancing Stop	1/4" to 2-1/2"
-94-	2-1/4" CS Stem Extension & Balancing Stop	1/4" to 2-1/2"

NOTE:

Also consider the 7K with "SV" suffix. The 7K with "SV" suffix has spring washers that keep the upstream seat in contact with the ball.



STANDARD MATERIAL LIST

PART	MATERIAL
LEVER AND GRIP	Steel, zinc plated w/vinyl
STEM PACKING	RPTFE
STEM BEARING	RPTFE
BALL	B16 Brass, chrome plated
SEAT (2)	RPTFE
RETAINER	B16 Brass (1/4" to 1") B584-C84400 (1-1/4" to 2-1/2")
GLAND NUT	B16 Brass
STEM	B16 Brass
LEVER NUT	Steel, zinc plated
BODY	B584-C84400

DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	F	G	H	J	K	WT.
7K-101-01	1/4"	0.43	1.12	2.25	1.81	3.87	-	-	0.093	1.18	-	0.70
7K-102-01	3/8"	0.50	1.12	2.25	1.81	3.87	-	-	0.093	1.18	-	0.66
7K-103-01	1/2"	0.50	1.12	2.25	1.81	3.87	-	-	0.125	1.25	-	0.73
7K-104-01	3/4"	0.81	1.56	3.12	2.12	4.87	0.87	1.37	0.296	1.56	0.901	1.93
7K-105-01	1"	1.00	1.81	3.62	2.62	5.50	0.93	1.50	0.310	1.78	1.121	3.42
7K-106-01	1-1/4"	1.25	2.12	4.25	2.87	5.50	0.93	1.50	0.370	2.03	1.371	5.15
7K-107-01	1-1/2"	1.50	2.37	4.75	3.34	8.00	-	2.08	0.500	2.21	1.282	6.81
7K-108-01	2"	2.00	2.65	5.37	3.71	8.00	-	2.41	0.625	2.68	1.562	11.85
7K-109-01	2-1/2"	2.50	3.25	6.50	4.12	8.00	-	2.75	1.090	3.00	2.002	17.35

1 To Top of Mounting Pad

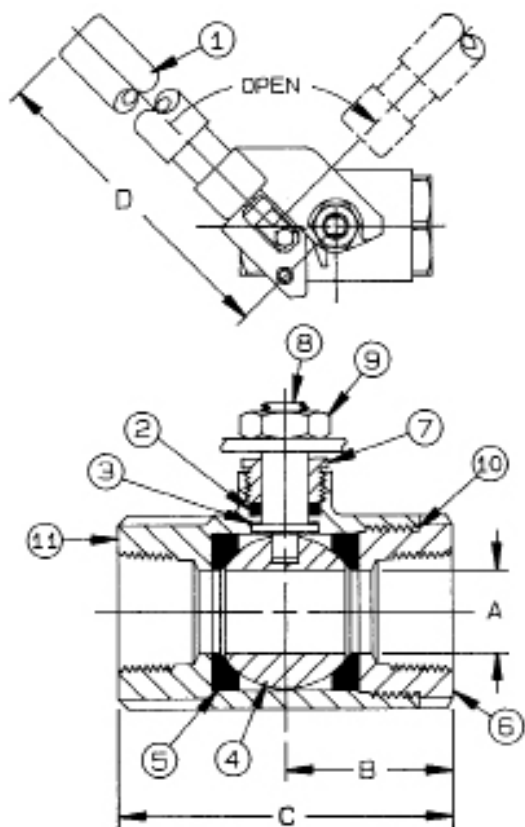
2 To Centerline of Mounting Pad

REV. 04APR16

Female NPT Thread, 600 CWP (psig), Cold Non-Shock.
150 psig Saturated Steam.
Vacuum Service to 29 inches Hg.
MSS SP-110 Compliant.

FEATURES

- Spring return to close (-01)
- Spring return to open (-08)
- All components of lever are SS
- Operating torque is approximately three times standard valve torque
- Reinforced seats
- Blowout-proof stem design
- Adjustable packing gland
- Chromium plated ball



DIMENSIONS

PART NO.	SIZE	A	B	C	D	WT.
71-501-01	1/4"	0.43	1.12	2.25	7.00	1.47
71-502-01	3/8"	0.50	1.12	2.25	7.00	1.45
71-503-01	1/2"	0.50	1.12	2.25	7.00	1.35
71-504-01	3/4"	0.68	1.50	3.00	7.00	2.33
71-505-01	1"	0.87	1.68	3.37	7.00	2.59
71-506-01	1-1/4"	1.00	2.00	4.00	9.00	4.18
71-507-01	1-1/2"	1.25	2.18	4.37	9.00	5.31
71-508-01	2"	1.50	2.34	4.68	9.00	6.41

VARIATIONS AVAILABLE

- 71-540 Series (316 SS Ball & Stem)
- 71-590 Series (Pinned Retainer)

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-P -01-	BSPP (Parallel) Thread Connection	1/4" to 2"
-T -01-	BSPT (Tapered) Thread Connection	1/4" to 2"
-08-	90° Reversed Stem	1/4" to 2"
-14-	Side Vented Ball (Uni-Directional)	1/4" to 2"
-20-	Slot Vented Ball	1/4" to 2"
-21-	UHMWPE Seats (Non-PTFE)	1/4" to 2"
-24-	Graphite Packing	1/4" to 2"
-35-	PTFE Trim	1/4" to 2"
-49-	No Lubrication. Assembled Dry.	1/4" to 2"
-57-	Oxygen Cleaned	1/4" to 2"

Pressure/Temperature Ratings - Page M-10, Graph No. 4

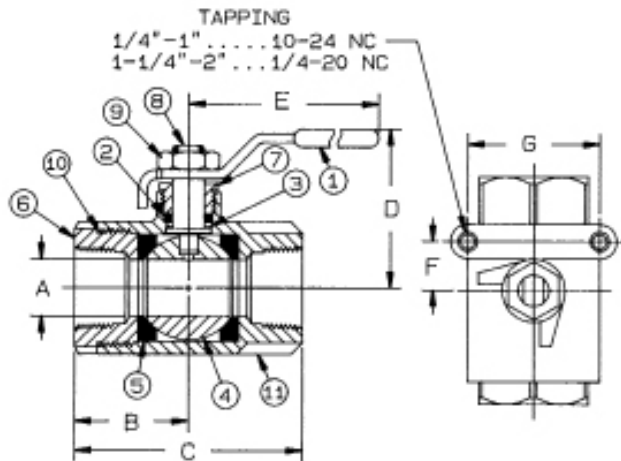
STANDARD MATERIAL LIST

	PART	MATERIAL
1	Handle	SS w/vinyl
2	Stem packing	Multifill PTFE
3	Stem bearing	RPTFE
4	Ball	B16 Brass, chrome plated
5	Seat (2)	Multifill PTFE
6	Retainer	B16 Brass (1/4" to 1") B584-C84400 (1-1/4" to 2")
7	Gland nut	B16 Brass
8	Stem	A276-316
9	Lever nut	Steel, zinc plated
10	Body seal	PTFE (1-1/4" to 2")
11	Body	B584-C84400

Female NPT Thread, 800 CWP (psig), Cold Non-Shock.
150 psig Saturated Steam.
Vacuum Service to 29 inches Hg.

FEATURES

- Investment cast components
- Reinforced
- SS lever and nut
- Blowout-proof stem design
- Adjustable packing gland
- Fire safe "by design" (requires -24 suffix)



STANDARD MATERIAL LIST

	PART	MATERIAL
1	Lever and grip	304 SS w/vinyl
2	Stem packing	MPTFE
3	Stem bearing	RPTFE
4	Ball	Nickel 200, ASTM-B162
5	Seat (2)	RPTFE
6	Retainer	Nickel 200, ASTM-B160 (1/2" to 1") Nickel CZ100, ASTM-A494 (1-1/2" to 2")
7	Gland nut	A276-316
8	Stem	Nickel 200, ASTM-B160
9	Lever nut	18-8 SS
10	Body seal	PTFE (1-1/2" & 2")
11	Body	Nickel CZ100, ASTM-A494

DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	WT.
74-103-01	1/2"	0.50	1.12	2.25	1.75	3.87	0.58
74-104-01	3/4"	0.68	1.50	3.00	2.12	4.87	1.18
74-105-01	1"	0.87	1.68	3.37	2.25	4.87	1.57
74-107-01	1-1/2"	1.25	2.18	4.37	3.06	8.00	4.11
74-108-01	2"	1.50	2.34	4.68	3.25	8.00	6.02

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
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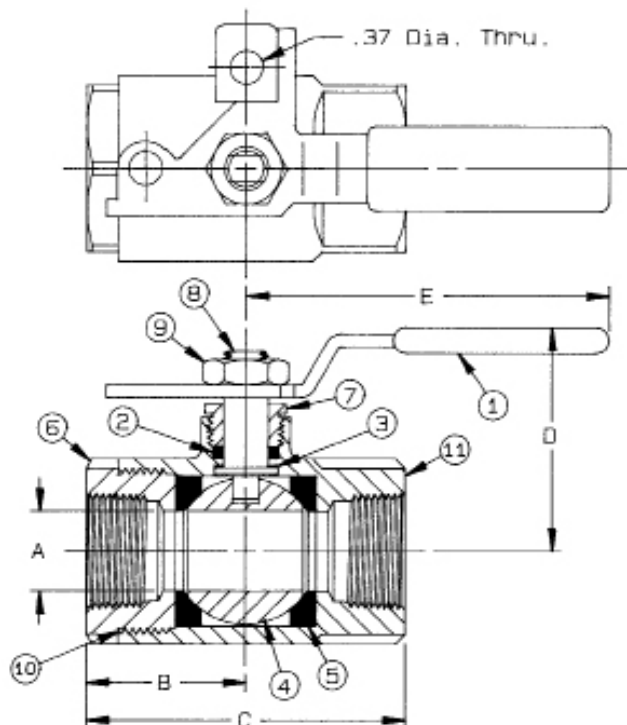
(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-P-01-	BSPP (Parallel) Thread Connection	1/2" to 2"
-T-01-	BSPT (Tapered) Thread Connection	1/2" to 2"
-02-	Stem Grounded	1/2" to 2"
-04-	2-1/4" Stem Extension (Carbon Steel, Zinc Plated)	1/2" to 2"
-07-	Steel Tee Handle	1/2" to 2"
-14-	Side Vented Ball (Uni-Directional)	1/2" to 2"
-15-	Wheel Handle, Steel	1/2" to 2"
-16-	Chain Lever - Vertical	3/4" to 2"
-18-	Plain Yellow Grip	1/2" to 2"
-21-	UHMWPE Seats (Non-PTFE)	1/2" to 2"
-24-	Graphite Packing (fire safe "by design")	1/2" to 2"
-27-	SS Latch-Lock Lever & Nut	1/2" to 2"
-30-	Cam-Lock and Grounded	1/2" to 2"
-32-	SS Tee Handle & Nut	1/2" to 2"
-35-	PTFE Trim	1/2" to 2"
-39-	SS Hi-Rise, Locking Wheel Handle, SS Nut	1/2" to 2"
-45-	Less Lever & Nut	1/2" to 2"
-46-	Latch Lock Lever - Lock Close Only	1/2" to 2"
-48-	SS Oval Handle (No Latch) & Nut	1/2" to 2"
-49-	No Lubrication. Assembled Dry.	1/2" to 2"
-50-	2-1/4" CS Locking Stem Extension	1/2" to 2"
-56-	Multifill Seats & Packing	1/2" to 2"
-58-	Chain Lever - Horizontal	3/4" to 2"
-60-	Grounded Ball & Stem	1/2" to 2"

Pressure/Temperature Ratings - Page M-18, Graph No. 22

Female NPT Thread, 600 CWP (psig), Cold Non-Shock.
150 psig Saturated Steam.
Vacuum Service to 29 inches Hg.
MSS SP-110 Compliant.

FEATURES

- Reinforced seats
- Blowout-proof stem design
- May be padlocked in open or closed position with no change of hardware
- Adjustable packing gland



DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	WT.
75-101-01	1/4"	0.43	1.10	2.22	1.74	2.87	0.80
75-102-01	3/8"	0.50	1.10	2.22	1.74	2.87	0.77
75-103-01	1/2"	0.50	1.10	2.22	1.74	2.87	0.70
75-104-01	3/4"	0.87	1.68	3.35	2.20	3.81	2.03
75-105-01	1"	0.87	1.68	3.35	2.20	3.81	1.83
75-106-01	1-1/4"	1.00	1.98	3.97	2.56	5.50	3.48
75-107-01	1-1/2"	1.25	2.14	4.31	2.74	5.50	4.23
75-108-01	2"	1.50	2.35	4.67	2.93	5.50	5.69

VARIATIONS AVAILABLE

- 75-140 Series (316 SS Ball & Stem)
- 75-190 Series (Pinned Retainer)

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-P-01-	BSPP (Parallel) Thread Connection	1/4" to 2"
-T-01-	BSPT (Tapered) Thread Connection	1/4" to 2"
-02-	Stem Grounded	1/4" to 2"
-05-	Plain Ball	1/4" to 2"
-08-	90° Reversed Stem	1/4" to 2"
-10-	SS Lever & Nut	1/4" to 2"
-14-	Side Vented Ball (Uni-Directional)	1/4" to 2"
-17-	Rough Chrome Plated - Bronze Valves	1/4" to 2"
-18-	Plain Yellow Grip	1/4" to 2"
-20-	Slot Vented Ball	1/4" to 2"
-21-	UHMWPE Trim (Non-PTFE)	1/4" to 2"
-24-	Graphite Packing	1/4" to 2"
-35-	PTFE Trim	1/4" to 2"
-41-	Automatic Drain (+50°F to 200°F limit, 125 psig max.)	1/4" to 2"
-49-	No Lubrication. Assembled Dry.	1/4" to 2"
-57-	Oxygen Cleaned	1/4" to 2"
-60-	Grounded Ball & Stem	1/4" to 2"

Pressure/Temperature Ratings - Page M-10, Graph No. 4

STANDARD MATERIAL LIST

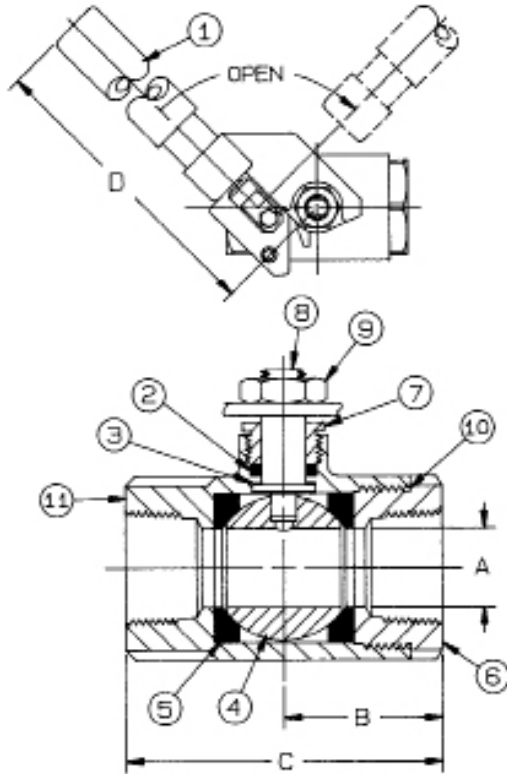
	PART	MATERIAL
1	Lever and grip	Steel, zinc plated w/vinyl
2	Stem packing	MPTFE
3	Stem bearing	RPTFE
4	Ball	B16 Brass, chrome plated
5	Seat (2)	RPTFE
6	Retainer	B16 Brass (1/4" to 1") B584-C84400 (1-1/4" to 2")
7	Gland nut	B16 Brass
8	Stem	B16 Brass
9	Lever nut	Steel, zinc plated
10	Body seal	PTFE (1-1/4" & 2")
11	Body	B584-C84400

Female NPT Thread, 1/4" to 1" 2000 CWP (psig), 1-1/4" to 2" 1500 CWP (psig). Cold Non-Shock.
150 psig Saturated Steam.
Vacuum Service to 29 inches Hg.
MSS SP-110 Compliant.

FEATURES

- Spring return to close (-01)
- Spring return to open (-08)
- Carbon and Graphite Reinforced seats (MPTFE)
- All components of lever are stainless steel
- Operating torque is approximately three times standard valve torque

- Blowout-proof stem design
- Adjustable packing gland
- Meets NACE MR0175 (2000) & MR0103 (2012)
- Investment cast components
- Fire safe "by design" (requires -24 suffix)



DIMENSIONS

PART NO.	SIZE	A	B	C	D	WT.
76-501-01A	1/4"	0.37	1.03	2.06	7.00	1.26
76-502-01A	3/8"	0.37	1.03	2.06	7.00	1.25
76-503-01A	1/2"	0.50	1.12	2.25	7.00	1.31
76-504-01A	3/4"	0.68	1.50	3.00	7.00	1.98
76-505-01A	1"	0.87	1.68	3.37	7.00	2.35
76-506-01	1-1/4"	1.00	2.00	4.00	9.00	3.96
76-507-01	1-1/2"	1.25	2.18	4.37	9.00	4.78
76-508-01	2"	1.50	2.75	5.50	9.00	6.66

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-P -01-	BSPP (Parallel) Thread Connection	1/4" to 2"
-T -01-	BSPT (Tapered) Thread Connection	1/4" to 2"
-08-	90° Reversed Stem	1/4" to 2"
-14-	Side Vented Ball (Uni-Directional)	1/4" to 2"
-21-	UHMWPE Seats (Non-PTFE)	1/4" to 2"
-24-	Graphite Packing (fire safe "by design")	1/4" to 2"
-35-	PTFE Trim	1/4" to 2"
-44-	Seal Welded	1/4" to 2"
-49-	No Lubrication. Assembled Dry.	1/4" to 2"
-52-	Two Tack Welds	1/4" to 2"
-57-	Oxygen Cleaned	1/4" to 2"
-60-	Grounded Ball & Stem	1/4" to 2"

Pressure/Temperature Ratings -
Page M-14, Graph No. 14 (1/4" to 1")
Page M-13, Graph No. 12 (1-1/4" to 2")

STANDARD MATERIAL LIST

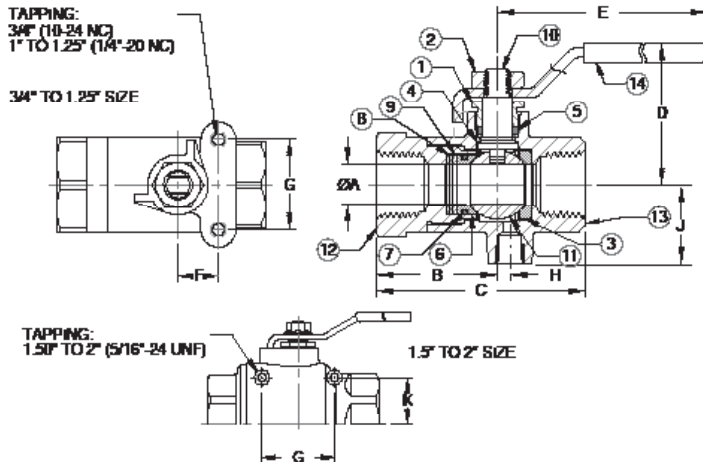
	PART	MATERIAL
1	Handle	SS w/vinyl
2	Stem packing	Multifill PTFE (MPTFE)
3	Stem bearing	RPTFE
4	Ball	A276-316
5	Seat (2)	Multifill PTFE (MPTFE)
6	Retainer	A276-316 (1/4" to 1") A351-CF8M (1-1/4" to 2")
7	Gland nut	A276-316
8	Stem	A276-316
9	Lever nut	18-8 SS
10	Body seal	PTFE (1-1/4" to 2")
11	Body	A351-CF8M

Female NPT Threaded with Female NPT threaded drain port.
Recommended for air services.
Rated 0-200 psig; -20°F to 150°F

FEATURES

- Reinforced seats
- Blowout-proof stem design
- Downstream venting in closed position

- Adjustable packing gland
- Mounting pad for easy actuator mounting
- Full port for full flow



STANDARD MATERIAL LIST

	PART	MATERIAL
1	Packing Gland	B16 Brass
2	Lever nut	Steel, zinc plated
3	Seat	RPTFE
4	Stem bearing	RPTFE
5	Stem packing	RPTFE
6	Seat	RPTFE
7	O-ring	Fluorosilicone
8	Spacer	B16 Brass
9	Belleville washers	Stainless Steel
10	Stem	B16 Brass
11	Ball	B16 Brass, chrome plated
12	Retainer	B16 Brass (1/2" to 1") B584-C84400 (1-1/4" to 2")
13	Body	B584-C84400
14	Lever/grip	Steel, zinc plated w/vinyl

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-02-	Stem Grounded	1/2" to 2"
-04-	2-1/4" Stem Extension (Carbon Steel, Zinc Plated)	1/2" to 2"
-07-	Steel Tee Handle	1/2" to 1-1/4"
-08-	90° Reversed Stem	1/2" to 2"
-10-	SS Lever & Nut	1/2" to 2"
-15-	Wheel Handle, Steel	1/2" to 1-1/4"
-16-	Chain Lever - Vertical	3/4" to 2"
-17-	Rough Chrome Plated - Bronze Valves	1/2" to 2"
-18-	Plain Yellow Grip	1/2" to 2"
-24-	Graphite Packing	1/2" to 2"
-27-	SS Latch-Lock Lever & Nut	1/2" to 2"
-30-	Cam-Lock and Grounded	1/2" to 1-1/4"
-32-	SS Tee Handle & Nut	1/2" to 1-1/4"
-40-	Cyl-Loc and Grounded	1/2" to 1-1/4"
-45-	Less Lever & Nut	1/2" to 2"
-46-	Latch-Lock Lever - Lock in Closed Position Only	1/2" to 2"
-47-	SS Latch-Lock Oval Handle & Nut	1/2" to 3/4"
-48-	SS Oval Handle (No Latch) & Nut	1/2" to 2"
-49-	No Lubrication. Assembled Dry.	1/2" to 2"
-50-	2-1/4" CS Locking Stem Extension	1/2" to 2"
-57-	Oxygen Cleaned	1/2" to 2"
-58-	Chain Lever - Horizontal	3/4" to 2"
-60-	Grounded Ball & Stem	1/2" to 2"
-92-	Balancing Stop	1/2" to 2"
-94-	2-1/4" CS Stem Extension & Balancing Stop	1/2" to 2"

DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	F	G	H	J	K	WT.
7K-103-SV	1/2"	0.50	1.50	2.59	1.76	3.88	0.50	1.12	0.12	1.25	-	0.73
7K-104-SV	3/4"	0.81	1.82	3.37	2.16	4.78	0.87	1.37	0.29	1.56	0.90 ¹	1.93
7K-105-SV	1"	1.00	2.05	3.86	2.69	5.43	0.93	1.50	0.31	1.78	1.12 ¹	3.42
7K-106-SV	1-1/4"	1.25	2.37	4.50	2.91	5.43	0.93	1.50	0.37	2.03	1.37 ¹	5.15
7K-107-SV	1-1/2"	1.50	2.63	5.00	3.31	7.78	1.04	3.06	0.50	2.21	1.28 ²	6.81
7K-108-SV	2"	2.00	3.00	5.69	3.73	7.78	1.20	3.52	0.62	2.68	1.56 ²	11.85

1 To Top of Mounting Pad

2 To Centerline of Mounting Pad

REV. 18APR16

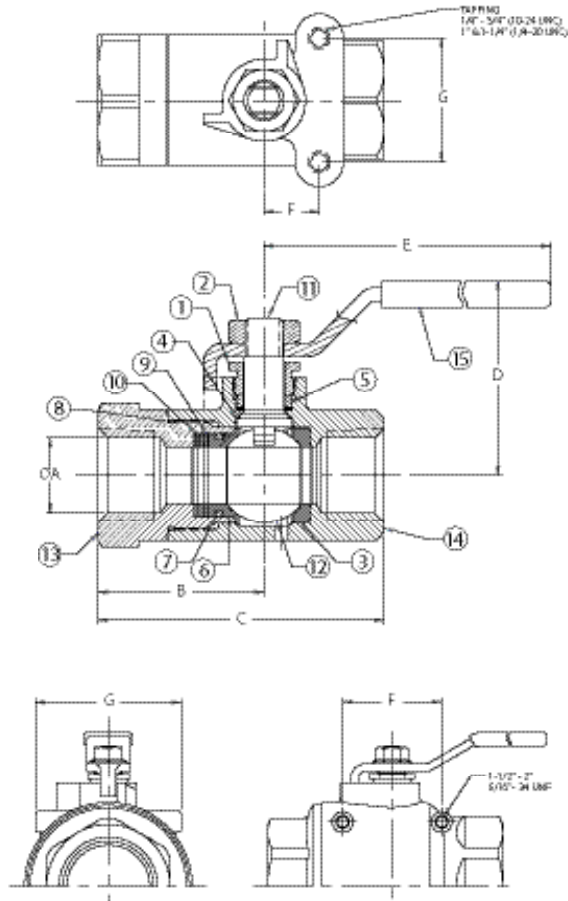
Female NPT Thread, 0-200 psig, -20°F to 150°F
MSS SP-110 Compliant.

Recommended for air services.

FEATURES

- Reinforced seats
- Mounting pad for easy actuator mounting
- Down stream venting in closed position

- Blowout-proof stem design
- Adjustable packing gland
- Full port for full flow & min. pressure drop



OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-02-	Stem Grounded	1/4" to 2"
-04-	2-1/4" Stem Extension (Carbon Steel, Zinc Plated)	1/4" to 1-1/4"
-07-	Steel Tee Handle	1/4" to 1-1/4"
-08-	90° Reversed Stem	1/4" to 2"
-10-	SS Lever & Nut	1/4" to 2"
-15-	Wheel Handle, Steel	1/4" to 1-1/4"
-16-	Chain Lever - Vertical	3/4" to 2"
-17-	Rough Chrome Plated - Bronze Valves	1/4" to 2"
-18-	Plain Yellow Grip	1/4" to 2"
-24-	Graphite Packing	1/4" to 2"
-27-	SS Latch-Lock Lever & Nut	1/4" to 2"
-30-	Cam-Lock and Grounded	1/4" to 1-1/4"
-32-	SS Tee Handle & Nut	1/4" to 1-1/4"
-36-	SS High-Rise Round Handle & Nut	1/4" to 1-1/4"
-40-	Cyl-Loc and Grounded	1/4" to 1-1/4"
-45-	Less Lever & Nut	1/4" to 2"
-46-	Latch Lock Lever - Lock in Closed Position Only	1/4" to 2"
-47-	SS Oval Latch-Lock Handle & Nut	1/4" to 3/4"
-48-	SS Oval Handle (No Latch) & Nut	1/4" to 2"
-49-	No Lubrication. Assembled Dry.	1/4" to 2"
-50-	2-1/4" CS Locking Stem Extension	1/4" to 2"
-57-	Oxygen Cleaned	1/4" to 2"
-58-	Chain Lever - Horizontal	3/4" to 2"
-60-	Static Grounded Ball & Stem	1/4" to 2"

DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	F	G	WT.
77-101-SV	1/4"	0.43	1.43	2.52	1.76	3.88	0.50	1.12	0.79
77-102-SV	3/8"	0.50	1.60	2.69	1.76	3.88	0.50	1.12	0.75
77-103-SV	1/2"	0.50	1.50	2.59	1.76	3.88	0.50	1.12	0.69
77-104-SV	3/4"	0.81	1.82	3.37	2.16	5.43	0.87	1.37	1.83
77-105-SV	1"	1.00	2.05	3.86	2.69	5.43	0.93	1.50	3.32
77-106-SV	1-1/4"	1.25	2.37	4.50	2.91	5.43	0.93	1.50	5.05
77-107-SV	1-1/2"	1.50	2.63	7.78	3.31	7.78	2.08	3.06	6.71
77-108-SV	2"	2.00	3.00	5.69	3.73	7.78	2.40	3.52	11.75

STANDARD MATERIAL LIST

	PART	MATERIAL
1	Packing gland	B16 Brass
2	Lever nut	Steel, zinc plated
3	Seat	RPTFE
4	Stem bearing	RPTFE
5	Stem packing	MPTFE
6	Seat	RPTFE
7	O-ring	Fluorosilicone
8	Body seal	PTFE (1-1/4" to 2")
9	Spacer	B16 Brass
10	Belleville washers	SS
11	Stem	B16 Brass
12	Ball	B16 Brass, chrome plated
13	Retainer	B16 Brass (1/4" to 1") B584 C84400 (1-1/4" to 2")
14	Body	B584 C84400
15	Lever/grip	Steel, zinc plated w/vinyl

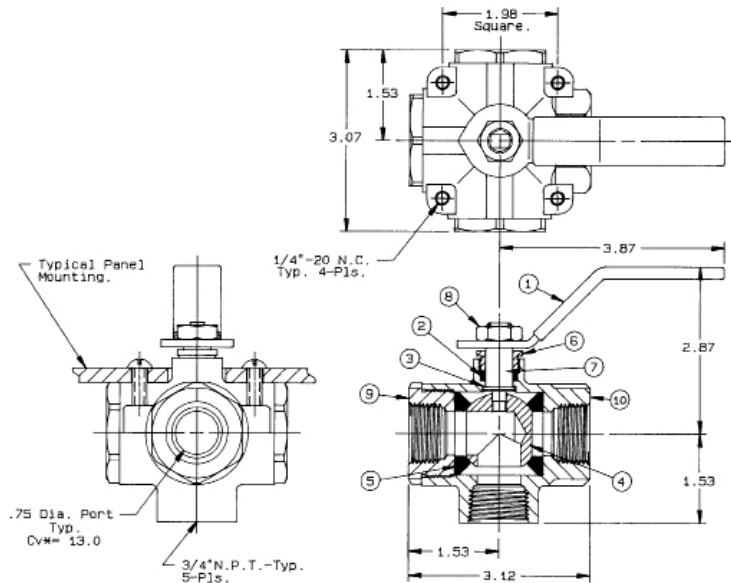
Female NPT Thread. 50 CWP (psig).

FEATURES

- Stainless steel lever and nut
- Non-lubricated design
- Operation: Four selected inlets feed on common outlet.
- Pointer on handle indicates the selected inlet
- Blowout-proof stem design
- Adjustable packing gland
- PTFE seats

STANDARD MATERIAL LIST

	PART	MATERIAL
1	Lever and grip	304 SS w/vinyl
2	Stem packing	MPTFE
3	Stem bearing	RPTFE
4	Ball	B16 Brass, chrome plated
5	Seat (4)	PTFE
6	Gland nut	B16 Brass
7	Stem	B16 Brass
8	Lever nut	304 SS
9	Retainer (3)	B16 Brass
10	Body	B584-C84400



DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	F	G	H	WT./100
78-124-01	1/2"	0.50	1.26	2.52	2.27	3.53	1.12	10-24	1.40	106
78-125-01A	3/4"	0.75	1.53	3.12	2.87	3.87	1.53	1/4-20	1.98	264

Female NPT Thread, 600 CWP (psig), Cold Non-Shock.
150 psig Saturated Steam.
Vacuum Service to 29 inches Hg.
MSS SP-110 Compliant.

FEATURES

- Two piece body
- Reinforced seats

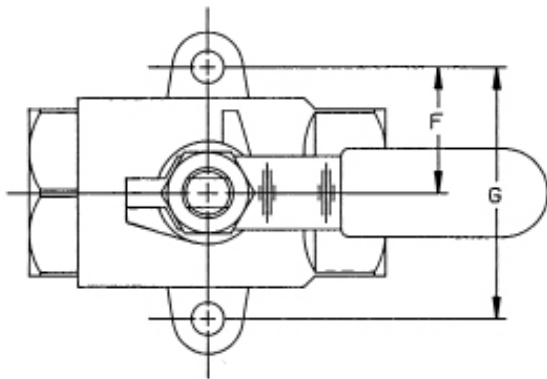
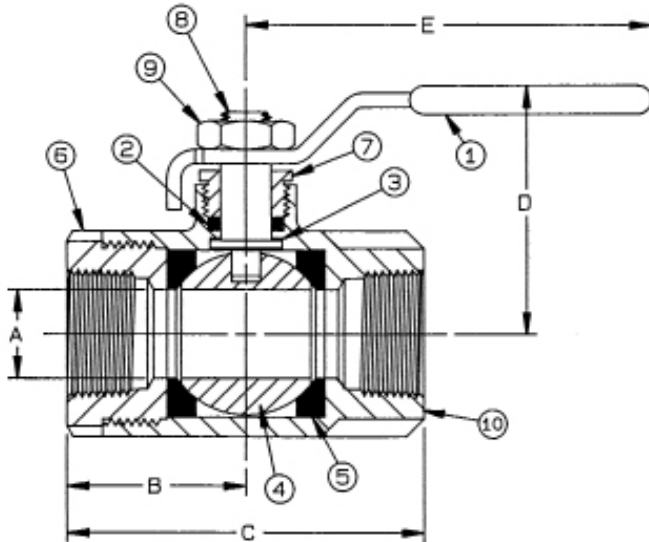
- Blowout-proof stem design
- Adjustable packing gland

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-T -01-	BSPT (Tapered) Thread Connection	1/4" to 3/4"
-04-	2-1/4" Stem Extension (Carbon Steel, Zinc Plated)	1/4" to 3/4"
-07-	Steel Tee Handle	1/4" to 3/4"
-10-	SS Lever & Nut	1/4" to 3/4"
-14-	Side Vented Ball (Uni-Directional)	1/4" to 3/4"
-15-	Wheel Handle, Steel	1/4" to 3/4"
-17-	Rough Chrome Plated - Bronze Valves	1/4" to 3/4"
-27-	SS Latch-Lock Lever & Nut	1/4" to 3/4"
-30-	Cam-Lock and Grounded	1/4" to 3/4"
-32-	SS Tee Handle & Nut	1/4" to 3/4"
-35-	PTFE Trim	1/4" to 3/4"
-41-	Automatic Drain (+50°F to 200°F limit. 125 psig max.)	1/4" to 3/4"
-56-	Multifill Seats & Packing	1/4" to 3/4"
-57-	Oxygen Cleaned	1/4" to 3/4"



Pressure/Temperature Ratings - Page M-10, Graph No. 4

STANDARD MATERIAL LIST

	PART	MATERIAL
1	Lever and grip	Steel, zinc plated w/vinyl
2	Stem packing	MPTFE
3	Stem bearing	RPTFE
4	Ball	B16 Brass, chrome plated
5	Seat (2)	RPTFE
6	Retainer	B16 Brass
7	Gland nut	B16 Brass
8	Stem	B16 Brass
9	Lever nut	Steel, zinc plated
10	Body	B584-C84400

DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	F	G	WT.
78-248-01	1/4"	0.43	1.12	2.25	1.78	3.87	0.93	1.87	0.68
78-250-01	3/8"	0.50	1.12	2.25	1.78	3.87	0.93	1.87	0.68
78-256-01	1/2"	0.50	1.12	2.25	1.78	3.87	0.93	1.87	0.65
78-438-01	3/4"	0.68	1.50	3.00	2.12	4.87	1.06	2.12	1.40

Male x Female NPT Thread. 400 CWP (psig), Cold Non-Shock.
Air & Liquid Service Rating.

FEATURES

- Micro-finish ball
- Nitrile stem seal
- Optional mixed end fittings available
- Blowout-proof stem design

- Plated steel tee handle
- PTFE seats
- Compact design

DIMENSIONS

TEE HANDLE NUMBER	SIZE	A	B	C	D	E	C _v *	WT.
BRASS INSTRUMENTATION BALL VALVE								
78-260-05	1/8" M x 1/8" F	0.21	0.37	1.43	0.87	1.25	4.0	0.20
78-261-05	1/4" M x 1/4" F	0.31	0.43	1.43	0.87	1.25	5.5	0.19
SCREW SLOT NUMBER	SIZE	A	B	C	D	E	C _v *	WT.
BRASS INSTRUMENTATION BALL VALVE								
78-262-05	1/8" M x 1/8" F	0.21	0.37	1.43	0.75	N/A	4.0	0.20
78-263-05	1/4" M x 1/4" F	0.31	0.43	1.43	0.75	N/A	5.5	0.19

*The Cv factor is the gallons of water per minute that the valve will pass with a 1 psig pressure drop.

DIMENSIONS

SCREW SLOT NUMBER	SIZE	A	B	C	D	E	C _v *	WT.
BRONZE INSTRUMENTATION BALL VALVE								
78-257-01	1/8" M x 1/4" F	0.21	0.80	1.60	0.72	N/A	4.0	0.19
78-258-01	1/4" M x 1/4" F	0.31	0.80	1.60	0.72	N/A	5.5	0.19
LEVER HANDLE NUMBER	SIZE	A	B	C	D	E	C _v *	WT.
BRONZE INSTRUMENTATION BALL VALVE								
78-267-01	1/4" M x 1/4" F	0.25	0.65	1.45	0.93	1.37	5.5	0.20

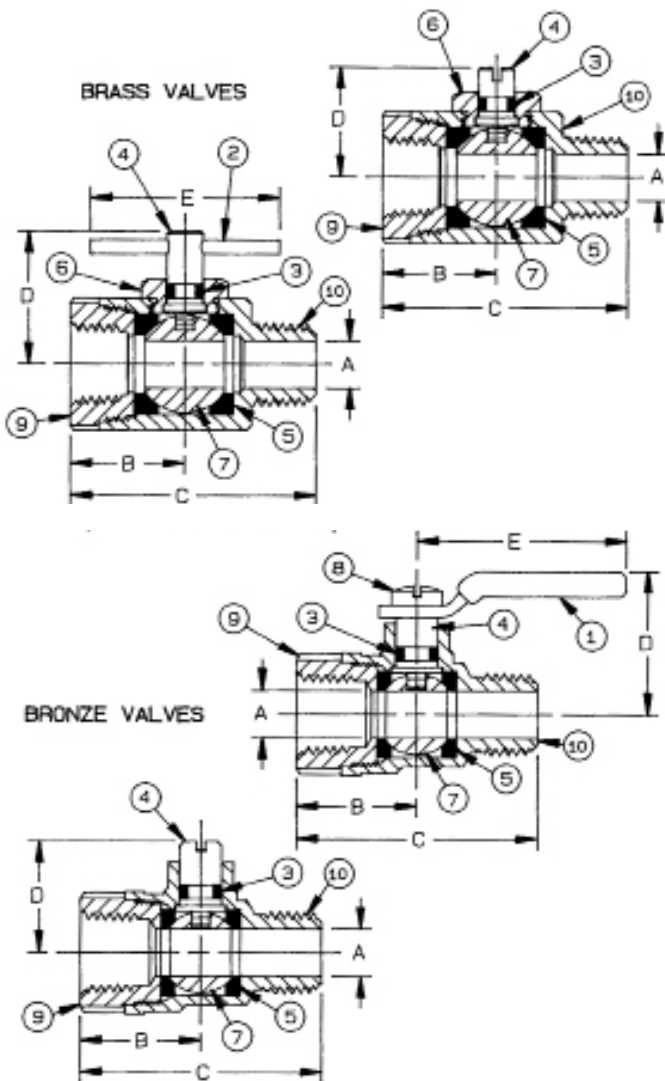
*The Cv factor is the gallons of water per minute that the valve will pass with a 1 psig pressure drop.

Pressure/Temperature Ratings - Page M-10, Graph No. 3

STANDARD MATERIAL LIST

	PART	MATERIAL
1	Lever and grip	Steel, zinc plated w/vinyl
2	Drive pin	Steel, zinc plated
3	O-Ring	Nitrile
4	Stem	B16 Brass
5	Seat (2)	PTFE
6	Stem boss	B16 Brass
7	Ball*	B16 Brass
8	Stem screw	Steel, zinc plated
9	Retainer	B16 Brass
10	Body	B16 Brass or B584-C84400

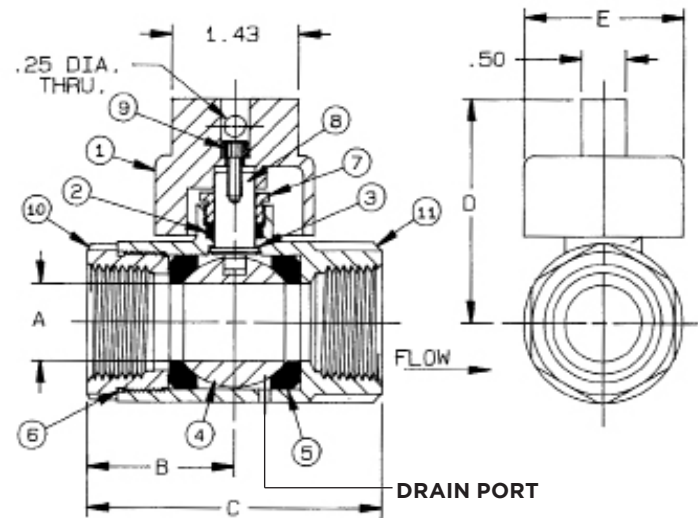
*Chrome Plated Ball In Bronze Valves.



Female NPT Thread. 600 psig Water, Cold Non-Shock.

FEATURES

- Two piece body
- RPTFE seats and stuffing box ring
- Temperature range: +50°F to +200°F
- Blowout-proof stem design
- Adjustable packing gland
- Automatic Draining in the Off Position
- Stainless steel underground curb stop handle



STANDARD MATERIAL LIST

	PART	MATERIAL
1	Head adapter	A351-CF8M
2	Stem packing	MPTFE
3	Stem bearing	RPTFE
4	Ball	B16 Brass, chrome plated
5	Seat (2)	RPTFE
6	Body seal	PTFE (1-1/4" to 2")
7	Gland nut	B16 Brass
8	Stem	B16 Brass
9	Screw	SS
10	Retainer	B16 Brass (3/4" to 1") B584-C84400 (1-1/4" to 2")
11	Body	B584-C84400

Caution: Do not use where drained media could cause damage.
See options section (option -41) for description of Auto-Drain feature.

DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	WT.
78-621-01	3/4"	0.68	1.47	2.96	2.40	1.81	1.59
78-622-01	1"	0.87	1.66	3.34	2.53	1.81	1.92
78-623-01	1-1/4"	1.00	1.98	3.97	3.00	2.50	3.57
78-624-01	1-1/2"	1.25	2.12	4.28	3.18	2.50	4.68
78-625-01	2"	1.50	2.35	4.67	3.37	2.50	6.11

Female NPT Thread, 1/4" to 1" 2000 CWP (psig), 1-1/4" to 2" 1500 CWP (psig). Cold Non-Shock.
150 psig Saturated Steam.
Vacuum Service to 29 inches Hg.
MSS SP-110 Compliant.

FEATURES

- Spring return to close ("01" suffix)
- Spring return to open ("08" suffix)
- All components of lever are stainless steel
- Zinc phosphate corrosion protection
- Operating torque is approximately three times standard valve torque
- Blowout-proof stem design

- Adjustable packing gland
- Investment cast components
- Multifill seats
- Fire safe "by design" (requires -24 suffix)

VARIATIONS AVAILABLE

- 89-540 Series (316 SS Ball & Stem)

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-P -01-	BSPP (Parallel) Thread Connection	1/4" to 2"
-T -01-	BSPT (Tapered) Thread Connection	1/4" to 2"
-08-	90° Reversed Stem	1/4" to 2"
-14-	Side Vented Ball (Uni-Directional)	1/4" to 2"
-24-	Graphite Packing (fire safe "by design")	1/4" to 2"
-35-	PTFE Trim	1/4" to 2"

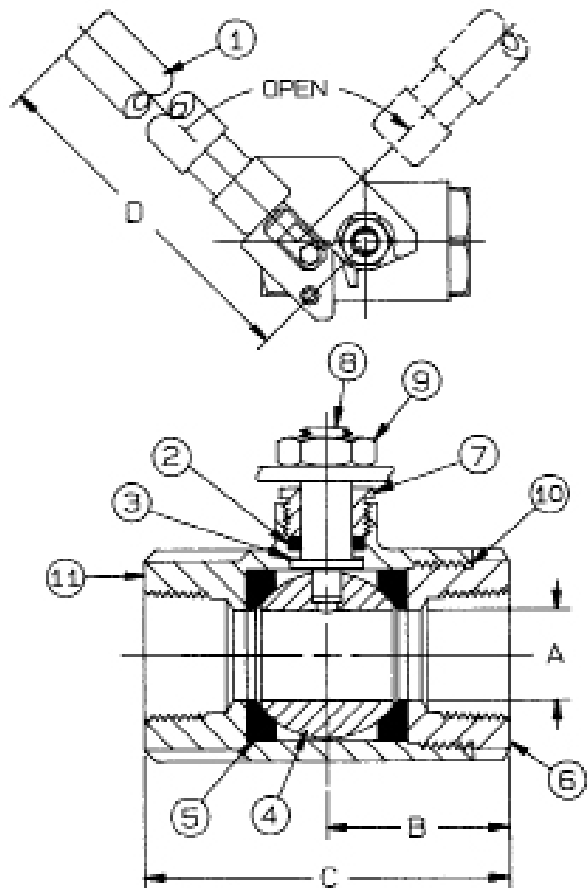
Pressure/Temperature Ratings -
Page M-14, Graph No. 13 (1/4" to 1")
Page M-13 Graph No. 11 (1-1/4" to 2")

STANDARD MATERIAL LIST

	PART	MATERIAL
1	Handle	SS
2	Stem packing	Multifill PTFE
3	Stem bearing	RPTFE
4	Ball	A108-CS chrome plated
5	Seat (2)	Multifill PTFE
6	Retainer	A108-CS (1/4" to 1") A216-WCB (1-1/4" to 2")
7	Gland nut	A108-CS
8	Stem	A276-316
9	Lever nut	Steel, Zinc Plated
10	Body seal	PTFE (1-1/4" to 2")
11	Body	A216-WCB

DIMENSIONS

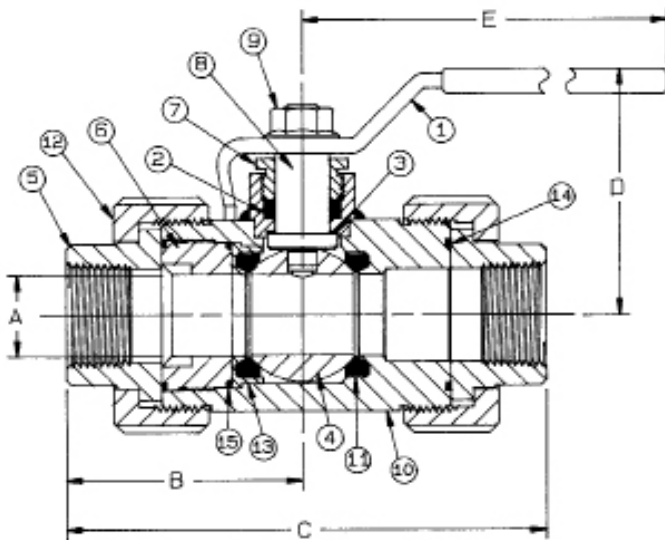
PART NO.	SIZE	A	B	C	D	WT.
89-501-01A	1/4"	0.37	1.03	2.06	7.00	1.26
89-502-01A	3/8"	0.37	1.03	2.06	7.00	1.25
89-503-01A	1/2"	0.50	1.12	2.25	7.00	1.31
89-504-01A	3/4"	0.68	1.50	3.00	7.00	1.98
89-505-01A	1"	0.87	1.68	3.37	7.00	2.35
89-506-01	1-1/4"	1.00	2.00	4.00	9.00	3.96
89-507-01	1-1/2"	1.25	2.18	4.37	9.00	4.78
89-508-01	2"	1.50	2.75	5.50	9.00	6.66



Threaded, 3000 CWP (psig), Cold Non-Shock.
150 psig Saturated Steam.
Vacuum Service to 29 inches Hg.
MSS SP-110 Compliant.

FEATURES

- Heavy duty quarter turn lever
- Reinforced seats and seals
- Steel barstock design
- Easy installation and maintenance
- Blowout-proof stem design
- Adjustable packing gland
- Zinc phosphate corrosion protection



VARIATIONS AVAILABLE

- 73-340 Series(316 SS Ball & Stem)

UL LISTINGS @ 250 PSIG MAX.

- Guide YRPV: Gas shutoff valve for use with natural and manufactured gases.
- Guide YSDT: LP gas shutoff valve.
- Guide YRBX: Flammable liquid shutoff valve.

Note: Listings apply ONLY to the standard -01 valves.

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-P -01	BSPP (Parallel) Thread Connection	1/4" to 2"
-T -01	BSPT (Tapered) Thread Connection	1/4" to 2"
-02-	Stem Grounded	1/4" to 2"
-07-	Steel Tee Handle	1/4" to 1-1/2"
-14-	Side Vented Ball (Uni-Directional)	1/4" to 2"
-15-	Wheel Handle, Steel	1/4" to 1"
-18-	Plain Yellow Grip	1/4" to 2"
-19-	Lock Plate	1/4" to 2"
-21-	UHMWPE Seats (Non-PTFE)	1/4" to 2"
-22-	Viton Union Seals	1/4" to 2"
-29-	Graphite Packing & Seals	1/4" to 2"
-45-	Less Lever & Nut	1/4" to 2"
-60-	Grounded Ball & Stem	1/4" to 2"
-63-	Threaded x Socket Weld	1/2" to 2"
-64-	250# Steam Trim	1/4" to 2"

Pressure/Temperature Ratings - Page M-15, Graph No. 15

DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	WT.
73-301-01	1/4"	0.43	2.50	5.00	2.50	5.62	3.51
73-302-01	3/8"	0.57	2.50	5.00	2.50	5.62	3.45
73-303-01	1/2"	0.62	2.50	5.00	2.50	5.62	3.35
73-304-01	3/4"	0.81	2.71	5.31	2.62	5.62	4.48
73-305-01	1"	1.00	2.96	6.06	3.12	6.62	7.04
73-306-01	1-1/4"	1.25	2.87	6.12	3.43	8.00	9.96
73-307-01	1-1/2"	1.50	3.46	7.12	3.56	8.00	14.83
73-308-01	2"	1.75	3.75	7.50	4.18	9.00	20.50

STANDARD MATERIAL LIST

	PART	MATERIAL
1	Lever and grip	Steel, zinc plated w/vinyl
2	Stem packing	RPTFE
3	Stem bearing	RPTFE
4	Ball	ASTM A276, Type 316 Stainless Steel
5	Tailpiece (2)	A108-CS
6	Retainer	A108-CS
7	Gland nut	A108-CS
8	Stem	ASTM A108, CS, zinc phosphate finish or ASTM A276, Type 316 Stainless Steel
9	Lever nut	Steel, zinc plated
10	Body	A108-CS
11	Seat (2)	RPTFE
12	Union nut (2)	A108-CS
13	Seat holder	A108-CS
14	Union seal (2)	RPTFE
15	Retainer seal	RPTFE



73-400 SERIES

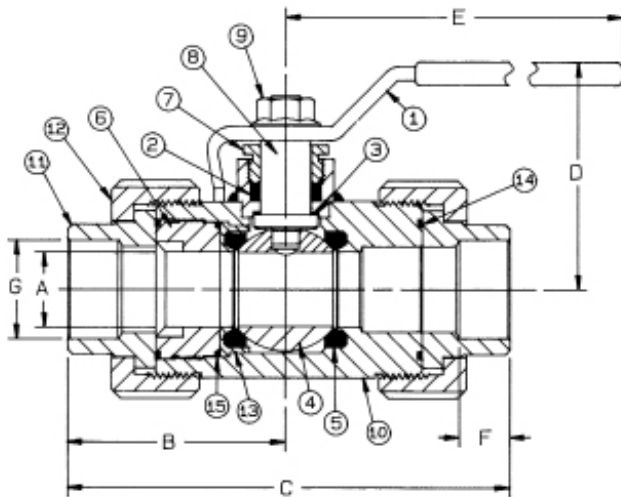
CARBON STEEL DOUBLE UNION END SOCKET WELD BALL VALVE



Socket Weld End, 3000 CWP (psig), Cold Non-Shock.
150 psig Saturated Steam.
Vacuum Service to 29 inches Hg.
MSS SP-110 Compliant.

FEATURES

- Heavy duty quarter turn lever
- Reinforced seats and seals
- Steel barstock design
- Easy installation and maintenance
- Blowout-proof stem design
- Adjustable packing gland
- Zinc phosphate corrosion protection



VARIATIONS AVAILABLE

- 73-440 Series (316 SS Ball & Stem)

UL LISTING @ 250 PSIG MAX

- Guide YRPV: Gas shutoff valve for use with natural and manufactured gases.
 - Guide YSDT: LP gas shutoff valve.
 - Guide YRBX: Flammable liquid shutoff valve.
- Note: Listings apply ONLY to the standard -01 valves.

STANDARD MATERIAL LIST

	PART	MATERIAL
1	Lever and grip	Steel, zinc plated w/vinyl
2	Stem packing	RPTFE
3	Stem bearing	RPTFE
4	Ball	ASTM A108, Carbon Steel, Chrome Plated or ASTM A276, Type 316 Stainless Steel
5	Seat (2)	RPTFE
6	Retainer	A108-CS
7	Gland nut	A108-CS
8	Stem	ASTM A108, CS, zinc phosphate finish or ASTM A276, Type 316 Stainless Steel
9	Lever nut	Steel, zinc plated
10	Body	A108-CS
11	Tail Piece (2)	A108-1018
12	Union nut (2)	A108-CS
13	Seat holder	A108-CS
14	Union seal (2)	RPTFE
15	Retainer seal	RPTFE

Pressure/Temperature Ratings - Page M-15, Graph No. 15

DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	F	G	WT.
73-403-01	1/2"	0.62	2.50	5.00	2.50	5.62	0.43	0.855	3.35
73-404-01	3/4"	0.81	2.71	5.31	2.62	5.62	0.56	1.065	4.48
73-405-01	1"	1.00	2.93	6.06	3.12	6.62	0.68	1.330	7.04
73-406-01	1-1/4"	1.25	2.87	6.12	3.43	8.00	0.81	1.675	9.96
73-407-01	1-1/2"	1.50	3.46	7.12	3.56	8.00	0.81	1.915	14.83
73-408-01	2"	1.75	3.75	7.50	4.18	9.00	1.06	2.406	20.50

REV. 04APR16

Female NPT Thread, 1/4" to 1" 2000 CWP (psig), 1-1/4" to 2" 1500 CWP (psig), 2-1/2" to 3" 1000 CWP (psig) Cold Non-Shock.
250 psig LP-Gas, 150 psig Saturated Steam.
Vacuum Service to 29 in. Hg.
MSS SP-110 Compliant.

FEATURES

- UL Listed for LP-Gas, natural gas and flammable liquid to 250 psig
- Reinforced seats
- Mounting pad for easy actuator mounting
- Investment cast components
- Blowout-proof stem design
- Adjustable packing gland
- Zinc phosphate corrosion protection

VARIATIONS AVAILABLE

- 489-140-01 Series w/ 316 SS Ball and Stem, UL Listed as noted above

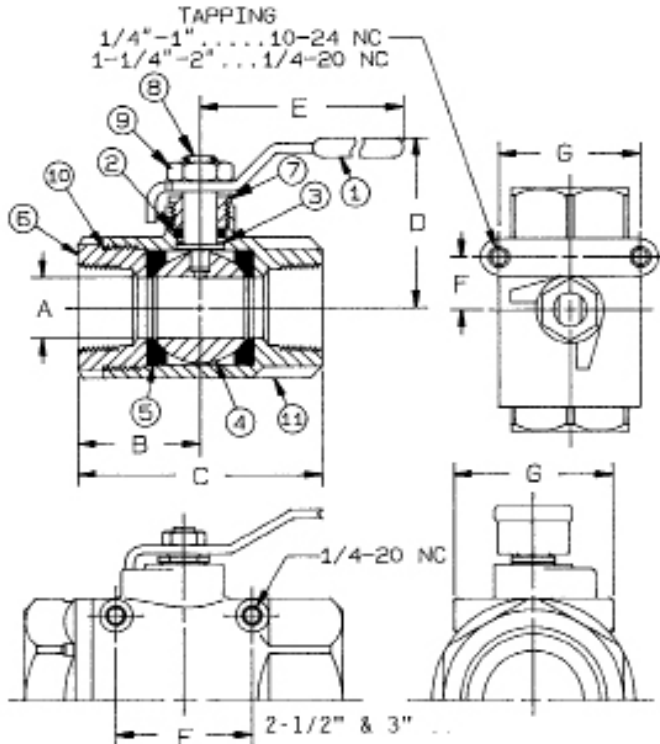
UL LISTINGS

- Guide YSDT: LP-Gas shut-off valve.
- Guide YRPV: Gas shutoff valve for use with natural and manufactured gases.
- Guide YRBX: Flammable liquid shutoff valve.
- Guide MHKZ: No. 6 oil at 250°F.

STANDARD MATERIAL LIST

	PART	MATERIAL
1	Lever and grip	Steel, zinc plated w/vinyl
2	Stem packing	RPTFE
3	Stem bearing	RPTFE
4	Ball	A108-CS Chrome Plated or ASTM A276 316 SS
5	Seat (2)	RPTFE
6	Retainer	A108-12L14 (1/4" to 1") A216-WCB (1-1/4" to 3")
7	Gland nut	A108-12L14
8	Stem	A108-12L14 or A276-316 SS
9	Lever nut	Steel, zinc plated
10	Body seal	PTFE (1-1/4" to 3")
11	Body	A216-WCB

Pressure/Temperature Ratings -
Page M-14, Graph No. 13 (1/4" to 1")
Page M-13, Graph No. 11 (1-1/4" to 2")



DIMENSIONS

PART NO.	SIZE	A	B	C	D	E	F	G	WT.
489-101-01A	1/4"	0.37	1.03	2.06	1.75	3.87	0.50	1.12	0.58
489-102-01A	3/8"	0.37	1.03	2.06	1.75	3.87	0.50	1.12	0.54
489-103-01A	1/2"	0.50	1.12	2.25	1.81	3.87	0.50	1.12	0.63
489-104-01A	3/4"	0.68	1.50	3.00	2.12	4.87	0.87	1.37	1.27
489-105-01A	1"	0.87	1.68	3.37	2.25	4.87	0.87	1.37	1.63
489-106-01	1-1/4"	1.00	2.00	4.00	2.62	5.50	0.93	1.50	3.06
489-107-01	1-1/2"	1.25	2.18	4.37	3.05	8.00	0.93	1.50	3.98
489-108-01	2"	1.50	2.75	5.50	3.24	8.00	0.93	1.50	5.99
489-109-01	2-1/2"	2.50	3.37	6.75	4.12	8.00	2.75	3.37	15.57
489-100-01	3"	2.50	3.37	6.75	4.12	8.00	2.75	3.37	16.79



SECTION H

REVISIONS

PAGE	DATE	DESCRIPTION
H-5	04APR16	Removed reference to Pressure-Temperature Graph 4
H-18	04APR16	Added reference to Pressure-Temperature Graph 15
H-10	18APR16	Corrected dimensions and drawing
H-7	22JUN16	Added -39 option to option table.
H-8	20JUL16	Added -21 and -35 options to option table.