



88A-900 Series

Carbon Steel ANSI Class 300 Flanged Full Port Ball Valve - 1/2" through 1"

STANDARDS COMPLIANCE

Refer to page D-A

MATERIALS OF CONSTRUCTION

Description (1/2" & 3/4" Valves)	Material
1. Body	ASTM A216 WCB
2. Retainer	ASTM A108 Type 1215
3. Ball	ASTM A108 Type 1215
4. Stem	ASTM A108 Type 1215
5. Packing Gland	ASTM A108 Type 1215
6. Stem Seals	PTFE
7. Seats	RPTFE
8. Stem Nut	300 Series Stainless Steel
9. Lever	300 Series Stainless Steel w/Vinyl Grip
10. Stem Bearing	RPTFE
11. Stop	300 Series Stainless Steel
12. Body Seal	RPTFE
13. Lock Washer	300 Series Stainless Steel
14. Grounding Spring	ASTM A313 Stainless Steel
15. Grounding Spring	ASTM A313 Stainless Steel

Description (1" Valves) Material

1. Body	ASTM A216 WCB
2. Retainer	ASTM A108 Type 1215
3. Ball	ASTM A108 Type 1215 Chrome Plated
4. Stem	ASTM A108 Type 1215
5. Packing Gland	ASTM A108 Type 1215
6. Stem Seals	PTFE
7. Seats	RPTFE.

8. Gland Screws ASTM A193 B7 9. Gland Plate 302 or 304 SS 10. Stem Nut 316 SS

ASTM A366 Steel with Vinyl Grip 11 Lever

12. Stem Bearing RPTFE

ASTM A108 Type 1215 13. Stop 14. Stop Screw SAE J429 Grade 2 15. Lock Plate ASTM A366 Steel 16. Body Seal RPTFE 302 or 304 SS 17. Lockwasher 18. Grounding Spring SS

STANDARD FEATURES

Refer to page D-A

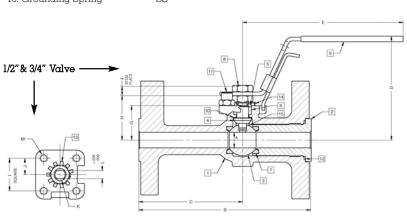
VARIATIONS AVAILABLE:

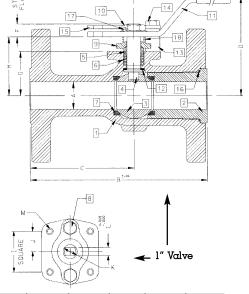
88A-940 Series (316 SS Ball & Stem) 88A-930 Series (Ni-Cu Ball & Stem)

OPTIONS AVAILABLE:

(SUFFIX)	OPTION
-01-	Standard
-10-	SS Lever and Nut
-14-	Side Vented Ball (Uni-Directional)
-15-	Wheel Handle, Steel
-21-	UHMWPE Seats
-24-	Fire Safe (Graphite Packing and Seal)
-35-	PTFE Seats and Seals
-38-	PEEK Seats and Graphite Packing
-49-	Assembled Dry
-60-	Grounded Ball and Stem
-65-	MPTFE Seats and Graphite Packing
-67-	Cleaned For Industrial Gases
-69-	Drilled and Tapped Purge Port with Plug
-70-	4" Extended Bonnet
-73-	316 SS Spiral Wound Gaskets w/PTFE Filler
-74-	316 SS Spiral Wound Gaskets w/Graphite Filler
-76-	Live Loaded 87A/88A Series (Lever)
-80-	Multi-Seal (Super TFE) 87A/88A Series

For Pressure/Temperature Ratings, Refer to Page M-9, Graph No. 5





NUMBER	SIZE	A	В	С	D	Е	F	G	H	I	J	K	L	M	WT.
88A-903-01	1/2"	0.50	5.50	3.31	3.31	5.11	0.30	1.09	1.38	1.000	0.500	0.375	0.245	10-24	7.0
88A-904-01	3/4"	0.75	6.00	3.56	3.89	5.53	0.36	1.65	1.99	1.392	0.696	0.500	0.287	1/4-20	9.0
88A-905-01	1"	1.00	6.50	3.82	4.62	6.53	0.47	1.62	2.15	1.392	0.696	0.500	0.287	1/4-20	10.5





88A-900 Series

Carbon Steel ANSI Class 300 Flanged Full Port Ball Valve - 1-1/2" through 2-1/2"

STANDARDS COMPLIANCE

Refer to page D-A

STANDARD FEATURES Refer to page D-A

MATERIALS OF CONSTRUCTION

Description	Material
1. Body	ASTM A216 WCB
2. Retainer	ASTM A216 WCB
3. Ball	ASTM A216 WCB or A216 WCB
	Chrome Plated
4. Stem	ASTM A108 Type 1215
5. Packing Gland	ASTM A108 Type 1215
6. Stem Seals	PTFE
7. Seats	RPTFE
8. Gland Screws	ASTM A193 B7
9. Gland Plate	302 & 304 SS
10. Stem Nut	ASTM A194 Grade 81
11. Lever	ASTM A366 Steel with Vinyl Grip
12. Stem Bearing	RPTFE
13. Stop	ASTM A108 Type 1215
14. Stop Screw	SAE J429 Grade 2
15. Lock Plate	ASTM A366 Steel
16. Body Seal	RPTFE
17. Grounding Spring	SS
18. Body Joint Stud	ASTM A193 Grade B7
19. Body Joint Nut	ASTM A194 Grade 2H
20. Lockwasher	302 or 304 SS

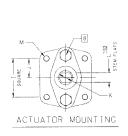
VARIATIONS AVAILABLE:

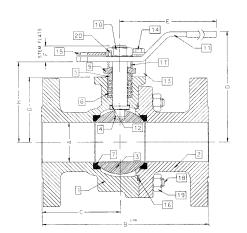
88A-940 Series (316 SS Ball & Stem) 88A-930 Series (Ni-Cu Ball & Stem)

OPTIONS AVAILABLE:

(SUFFIX)	OPTION
-01-	Standard
-14-	Side Vented Ball (Uni-Directional)
-15-	Wheel Handle, Steel
-21-	UHMWPE Seats
-24-	Fire Safe (Graphite Packing and Seal)
-35-	PTFE Seats and Seals
-38-	PEEK Seats and Graphite Packing
-49-	Assembled Dry
-59-	SS External Trim
-60-	Grounded Ball and Stem
-65-	MPTFE Seats and Graphite Packing
-67-	Cleaned For Industrial Gases
-69-	Drilled and Tapped Purge Ports with Plugs
-70-	4" Extended Bonnet
-73-	316 SS Spiral Wound Gaskets w/PTFE Filler
-74-	316 SS Spiral Wound Gaskets w/Graphite Filler
-76-	Live Loaded 87A/88A Series (Lever)
-80-	Multi-Seal (Super TFE) 87A/88A Series
-MG-	Gear Operator with Standard Handwheel
-MH-	Gear Operator with Standard Handwheel &
	Locking Device
-MJ-	Gear Operator with Oversize Handwheel
-MK-	Gear Operator with Oversize Handwheel & Locking Device

For Pressure/Temperature Ratings, Refer to Page M-9, Graph No. 5





NUMBER	SIZE	A	В	С	D	Е	F	G	Н	I	J	K	L	M	WT.
88A-907-01	1-1/2"	1.50	7.50	3.50	4.62	6.65	0.72	2.41	3.09	1.949	0.974	0.625	0.412	5/16-18	21.0
88A-908-01	2"	2.00	8.50	4.00	5.61	8.41	0.80	3.31	4.08	1.949	0.974	0.750	0.477	5/16-18	37.0
88A-909-01	2-1/2"	2.50	9.50	4.44	6.24	8.41	0.80	3.94	4.71	1.949	0.974	0.750	0.477	5/16-18	57.0





88A-900 Series

Carbon Steel ANSI Class 300 Flanged Full Port Ball Valve - 3" through 6"

STANDARDS COMPLIANCE

Refer to page D-A

MATERIALS OF CONSTRUCTION

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Description	Material
1. Body	ASTM A216 WCB
2. Retainer	ASTM A216 WCB
3. Ball	ASTM A216 WCB or A216 WCB
	Chrome Plated
4. Stem	ASTM A108 Type 1215
5. Packing Gland	ASTM A108 Type 1215
6. Stem Seals	PTFE
7. Seats	RPTFE
8. Gland Screws	ASTM A193 B7
9. Gland Plate	316 SS
10. Adapter Screw	316 SS
ll. Handle Adapter	ASTM A366 Steel with Vinyl Grip
12. Stem Bearing	RPTFE
13. Stop	ASTM A108 Type 1215
14. Stop Screw	SAE J429 Grade 2
15. Lock Plate	ASTM A366 Steel
16. Body Seal	RPTFE
Grounding Spring	SS
18. Body Joint Stud	ASTM A193 Grade B7
19. Body Joint Nut	ASTM A194 Grade 2H
20. Pipe Handle	Galvanized Steel (not shown)

For Pressure/Temperature Ratings, Refer to Page M-9, Graph No. 5

STANDARD FEATURES

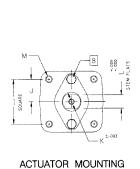
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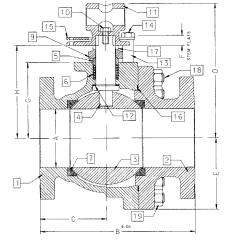
VARIATIONS AVAILABLE:

88A-940 Series (316 SS Ball & Stem) 88A-930 Series (Ni-Cu Ball & Stem)

OPTIONS AVAILABLE:

OPTION
Standard
Side Vented Ball (Uni-Directional)
UHMWPE Seats
Fire Safe (Graphite Packing and Seal)
PTFE Seats and Seals
PEEK Seats and Graphite Packing
Assembled Dry
SS External Trim
Grounded Ball and Stem
MPTFE Seats and Graphite Packing
Cleaned For Industrial Gases
Drilled and Tapped Purge Ports with Plugs
4" Extended Bonnet
316 SS Spiral Wound Gaskets w/PTFE Filler
316 SS Spiral Wound Gaskets w/Graphite Filler
Live Loaded 87A/88A Series (Lever)
Multi-Seal (Super TFE) 87A/88A Series
Gear Operator with Standard Handwheel
Gear Operator with Standard Handwheel &
Locking Device
Gear Operator with Oversize Handwheel
Gear Operator with Oversize Handwheel &
Locking Device





NUMBER	SIZE	A	В	С	D	Е	F	G	Н	I	J	K	L	M	WT.
88A-900-01	3"	3.00	11.12	5.24	8.80	4.06	0.50	4.75	5.95	2.840	1.420	1.250	0.725	3/8-16	78.0
88A-90A-01	4"	4.00	12.00	5.44	9.99	5.25	0.50	5.94	7.13	2.840	1.420	1.250	0.725	3/8-16	133.0
88A-90C-01	6"	6.00	15.88	6.82	13.73	7.30	1.00	7.75	9.48	4.596	2.296	2.000	1.375	3/4-10	329.0





88A-900 Series

Carbon Steel ANSI Class 300 Flanged Full Port Ball Valve - 8" through 12"

STANDARDS COMPLIANCE

Refer to page D-A

MATERIALS OF CONSTRUCTION

Description	Material
1. Body	ASTM A216 WCB
2. Retainer	ASTM A216 WCB
3. Ball	ASTM A108 Type 1215 or A216 WCB
4. Stem	ASTM A108 Type 1215
Packing Gland	ASTM A108 Type 1215
6. Stem Seals	PTFE
7. Seats	RPTFE
8. Gland Screws	ASTM A193 B7
9. Gland Plate	316 SS
10. Stem Bearing	RPTFE
11. Body Seal	RPTFE
12. Body Joint Stud	ASTM A193 Grade B7
13. Body Joint Nut	ASTM A194 Grade 2H

STANDARD FEATURES

Refer to page D-A

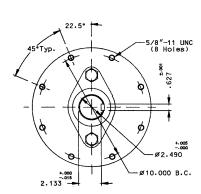
VARIATIONS AVAILABLE:

88A-930 Series (Ni-Cu Ball & Stem) 88A-940 Series (316 SS Ball & Stem)

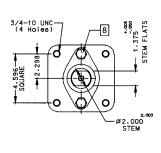
OPTIONS AVAILABLE:

(SUFFIX)	OPTION
-01-	Standard
-14-	Side Vented Ball (Uni-Directional)
-21-	UHMWPE Seats
-24-	Fire Safe (Graphite Packing and Seal)
-35-	PTFE Seats and Seals
-49-	Assembled Dry
-60-	Grounded Ball and Stem
-65-	MPTFE Seats and Graphite Packing
-67-	Cleaned for Industrial Gas - CS Valves
-69-	Drilled and Tapped Purge Ports with Plugs
-70-	Extended Bonnet (8" Only)
-76-	Live Loaded 87A/88A Series (Lever)
-80-	Multi-Seal (Super TFE) 87A/88A Series
-MG-	Gear Operator with Standard Handwheel
-MH-	Gear Operator with Standard Handwheel &
	Locking Device
-MJ-	Gear Operator with Oversize Handwheel
-MK-	Gear Operator with Oversize Handwheel &
	Locking Device

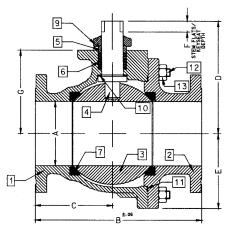
For Pressure/Temperature Ratings, Refer to Page M-9, Graph No. 5



ACTUATOR MOUNTING: 10" & 12"



ACTUATOR MOUNTING: 8"



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NUMBER	SIZE	A	В	С	D	Е	F	G
88A-90E-01	8"	8.00	19.75	9.38	12.83	9.56	1.00	10.22
88A-90G-01	10"	10.00	22.38	10.95	18.57	11.33	2.31	12.80
88A-90H-01	12"	12.00	25.50	12.84	20.31	13.40	2.31	14.92



ANSI Flanged Ball Valves

87A, 87B, 88A and 88B Series Features and Benefits

STANDARDS COMPLIANCE

Except where specifically noted all valves within this family of products complies with the requirements of this listed standard.

ASME B16.5 -"Pipe Flanges and Flanged Fittings" ASME B16.10 - "Face to Face Dimensions of Valves"

ASME B16.34 - "Valves - Flanged, Threaded, and Welding End"

ASME B16.33 - "Manual Operated Metallic Gas Valves for Use in Gas Piping Systems up to 125 psig" ASME B16.38 - "Large Metallic Valves for Gas Distribution (Manually Operated NPS 2-1/2" to 12",

125 psig)"

ASME B31.1 -"Power Piping"

ASME B31.3 -"Chemical Plant and Petroleum Refinery Piping" ASME B31.8 -"Gas Transmission and Distribution Piping Systems"

API 607 -"Fire Test - Soft Seated Quarter Turn Valves" (-24 Option Required)

"Ball Valves - Flanged, Threaded, and Welding End" API 608 -

"Standard Marking System for Valves" MSS SP-25 -MSS SP-61 -"Pressure Testing of Steel Valves"

MSS SP-72 -"Ball Valves with Flanged or Buttweld Ends"

UL 125 -"Valves for Anhydrous Ammonia and LP-Gas (Other than Safety Relief)"

STANDARD FEATURES

Except where specifically noted all valves within this family of products include all listed features as standard.

Two Position Locking Device (Valves 6" FP, 8" SP and smaller)

CHV Style Adjustable Stem Seals

Four Point ISO 5211 Mounting Pad Bolt Pattern

Slot Vented Ball for Thermal Expansion

Rated 150 psia Saturated Steam

Anti-static Grounded Ball and Stem

Blow-out Proof Stem Design

Cast Boss for Bleed / Drain Port

Vacuum Service to 29 inches of Ha

NACE MR0175-2000 Compliance on all 87A/87B

PRODUCT APPROVALS

(Reference: ASME B16.33 & B16.38) CSA UL (Reference: Control Number 195H)

> LP-Gas Shut-Off Valves UL (YSDT)

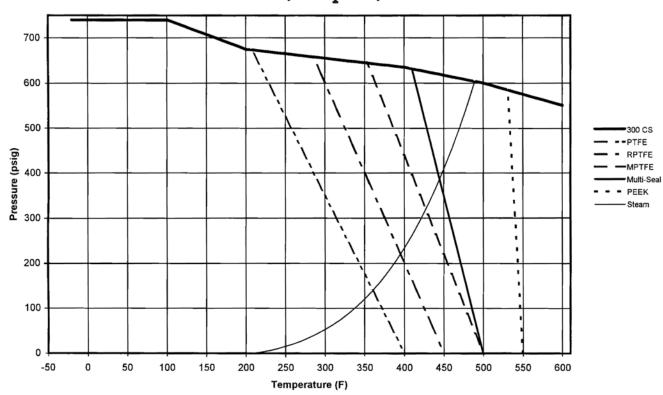
UL (MHKZ) Manual Valves

Flammable Liquid Shut-Off Valves UL (YRBX)

UL (YRPV) Gas Shut-Off Valves

UL (YONZ) Compressed Gas Shut-Off Valves UL (YQAR) Anhydrous Ammonia Shut-Off Valves

Class 300 CS P-T Rating (Graph 5)



Class 300 SS P-T Rating (Graph 6)

