



87A-900 Series

Stainless 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 A351 CF8M
2. Retainer	ASTM A276 Type 316
3. Ball	ASTM A276 Type 316
4. Stem	ASTM A276 Type 316
5. Packing Gland	ASTM A276 Type 316
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. Lockwasher	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 A351 CF8M
2. Retainer	ASTM A276 Type 316

3. Ball ASTM A276 Type 316 4. Stem ASTM A276 Type 316 5. Packing Gland ASTM A276 Type 316 6. Stem Seals PTFE 7. Seats RPTFF. 8. Gland Screws ASTM A193 B8 Class 1 9. Gland Plate 302 or 304 SS 10. Stem Nut 316 SS 11. Lever 302 or 304 with Vinyl Grip 12. Stem Bearing RPTFE ASTM A276 Type 316 13. Stop 14. Stop Screw 18-8 SS 15. Lock Plate 302 or 304 SS RPTFE 16. Body Seal 17. Lockwasher

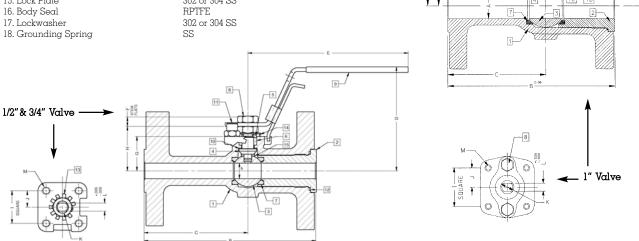
STANDARD FEATURES

Refer to page D-A

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
-57-	Oxygen Cleaned
-60-	Grounded Ball and Stem
-65-	MPTFE Seats and Graphite Packing
-67-	Cleaned For Industrial Gases
-69-	Drilled and Tapped Purge Port 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

For Pressure/Temperature Ratings, Refer to Page M-9, Graph No. 6



NUMBER	SIZE	A	В	U	D	Е	F	ტ	Н	I	J	K	L	M	WT.
87A-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	6.0
87A-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
87A-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	11.0





87A-900 Series

Stainless 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

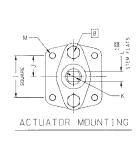
MATERIALS OF CONSTRUCTION

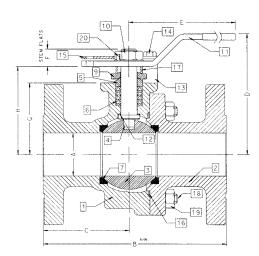
Description	Material
1. Body	ASTM A351 CF8M
2. Retainer	ASTM A351 CF8M
3. Ball	ASTM A276 Type 316 or A351 CF8M
4. Stem	ASTM A276 Type 316
Packing Gland	ASTM A276 Type 316
6. Stem Seals	PTFE
7. Seats	RPTFE
8. Gland Screws	ASTM A193 B8 Class 1
9. Gland Plate	316 SS
10. Stem Nut	18-8 SS
ll. Lever	316 SS
12. Stem Bearing	RPTFE
13. Stop	ASTM A276 Type 316
14. Stop Screw	316 SS
15. Lock Plate	302 or 304 SS
16. Body Seal	RPTFE
Grounding Spring	SS
18. Body Joint Stud	ASTM A193 Grade B8M
19. Body Joint Nut	ASTM A194 Grade 8
20. Lockwasher	302 or 304 SS

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
-38-	PEEK Seats and Graphite Packing (3" Only)
-49-	Assembled Dry
-57-	Oxygen Cleaned
-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. 6





NUMBER	SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	M	WT.
87A-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
87A-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
87A-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





87A-900 Series
Stainless Steel ANSI Class 300 Flanged Full Port Ball Valve - 3" through 6"

STANDARDS COMPLIANCE

Refer to page D-A

NUMBER 87A-900-01

87A-90A-01

87A-90C-01

3.00

4.00

11.12

12.00

15.88

6.82

13.73

7.30

STANDARD FEATURES

Refer to page D-A

MATERIALS OF CONSTRUCTION

	· · · ·
Description	Material
1. Body	ASTM A351 CF8M
2. Retainer	ASTM A351 CF8M
3. Ball	ASTM A276 Type 316 or A351 CF8M
4. Stem	ASTM A276 Type 316
5. Packing Gland	ASTM A276 Type 316
6. Stem Seals	PTFE
7. Seats	RPTFE
8. Gland Screws	ASTM A193 B8 Class 1
9. Gland Plate	316 SS
10. Adapter Screw	18-8 SS
l 1. Handle Adapter	316 SS
12. Stem Bearing	RPTFE
13. Stop	ASTM A276 Type 316
14. Stop Screw	316 SS
15. Lock Plate	302 or 304 SS
16. Body Seal	RPTFE
17. Grounding Spring	SS
18. Body Joint Stud	ASTM A193 Grade B8M
19. Body Joint Nut	ASTM A194 Grade 8
20. Pipe Handle	Galvanized Steel (not shown)

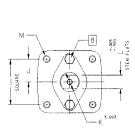
OPTIONS AVAILABLE:

(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
-38-	PEEK Seats and Graphite Packing (3" Only)
-49-	Assembled Dry
-57-	Oxygen Cleaned (SS Valves Only)
-60-	Grounded Ball and Stem
-65-	MPTFE Seats and Graphite Packing
-67-	Cleaned For Industrial Gases
-69-	Drilled and Tapped Purge Port with Plugs
-70-	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. 6

1.375

3/4-10



ACTUATOR MOUNTING WT. 5.24 8.80 4.06 0.50 4.75 5.95 1.420 1.250 0.725 78.0 7.13 5.44 9.99 5.25 0.50 5.94 2.840 1.420 1.250 0.725 3/8-16 133.0

4.596

9.48

329.0

7.75

1.00







87A-900 Series

Stainless 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 A351 CF8M
2. Retainer	ASTM A351 CF8M
3. Ball	ASTM A276 Type 316 or A351 CF8M
4. Stem	ASTM A276 Type 316
5. Packing Gland	ASTM A276 Type 316
6. Stem Seals	PTFE
7. Seats	RPTFE
8. Gland Screws	ASTM A193 B8 Class 1
9. Gland Plate	316 SS
10. Stem Bearing	RPTFE
11. Body Seal	RPTFE
12. Body Joint Stud	ASTM A193 Grade B8M
13. Body Joint Nut	ASTM A194 Grade 8

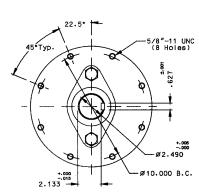
STANDARD FEATURES

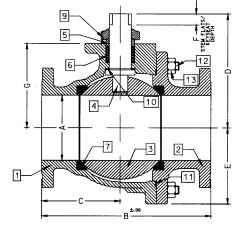
Refer to page D-A

OPTIONS AVAILABLE:

(POLLIV)	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
-57-	Oxygen Cleaned
-60-	Grounded Ball and Stem
-65-	MPTFE Seats and Graphite Packing
-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. 6





ACTUATOR MOUNTING: 10" & 12"

ACTUATOR MOUNTING: 8"

NUMBER	SIZE	A	В	С	D	Е	F	G
87A-90E-01	8"	8.00	19.75	9.38	12.83	9.56	1.00	10.22
87A-90G-01	10"	10.00	22.38	10.95	18.57	11.33	2.31	12.80
87A-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)

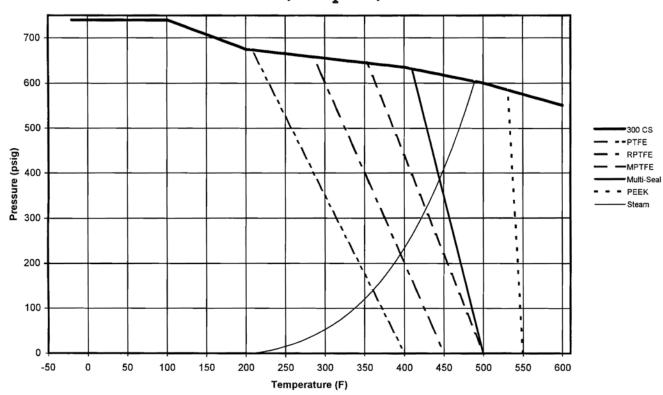
UL (MHKZ) Manual Valves

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)

