Apollo 87A-800 Series

Alloy 20 ANSI Class 300 Flanged Standard Port Ball Valve - 1-1/2" through 2"

Standards Compliance

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"

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

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

MSS SP-25 - "Standard Marking System for Valves"

MSS SP-61 - "Pressure Testing of Steel Valves"

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

ASME B31.1, B31.3, & B31.8 - Pressure Piping Standards

Materials of Construction

15. Lock Plate

Body Seal

Lockwasher

Grounding Spring

16.

17.

Des	cription	Material
1.	Body	ASTM A351 CN7M
2.	Retainer	ASTM B473 (UNS N08020) or CN7M
3.	Ball	ASTM B473 (UNS N08020) or CN7M
4.	Stem	ASTM B473 (UNS N08020)
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	302 or 304 Stainless Steel
10.	Stem Nut	316 Stainless Steel
11.	Lever	302 or 304 SS with Vinyl Grip
12.	Stem Bearing	RPTFE
13.	Stop	ASTM A276 Type 316
14.	Stop Screw	18-8 Stainless Steel

RPTFE

Stainless Steel

302 or 304 Stainless Steel

302 or 304 Stainless Steel

Standard Features

Two Position Locking Device Antistatic Grounded Stem CHV Style Adjustable Stem Seals Blow-out Proof Stem Design

Cast Boss for Bleed / Drain Port

Four Point ISO 5211 Mounting Pad Bolt Circle

Slot Vented Ball for Thermal Expansion

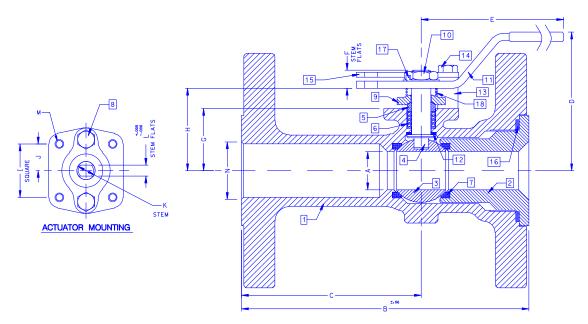
Vacuum Service to 29 inches Hg

Options Available

Suffix	Option
-01	Standard (Locking Kit and Grounded Stem)
-14	Side Vented Ball (See Page J2)
-15	Wheel Handle
-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 (Stainless Steel Valves Only)
-60	Grounded Ball and Stem
-65	MPTFE Seats and Graphite Packing
-69	Drilled and Tapped Purge Port with Plug

4" Extended Bonnet

-70



Number	Size	A	В	С	D	Е	F	G	Н	I	J	K	L	M	N
87A-807-01	1-1/2"	1.00	7.50	4.69	3.62	6.03	0.47	1.62	2.15	1.392	0.696	0.500	0.287	1/4-20	1.50
87A-808-01	2"	1.50	8.50	5.19	4.62	6.65	0.72	2.41	3.09	1.949	0.974	0.625	0.412	5/16-18	2.00

Apollo 87A-800 Series

Alloy 20 ANSI Class 300 Flanged Standard Port Ball Valve - 2-1/2" through 3"

Standards Compliance

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"

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

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

MSS SP-25 - "Standard Marking System for Valves"

MSS SP-61 - "Pressure Testing of Steel Valves"

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

ASME B31.1, B31.3, & B31.8 - Pressure Piping Standards

Options Available

Standard Features

Antistatic Grounded Stem

Two Position Locking Device

Blow-out Proof Stem Design

CHV Style Adjustable Stem Seals

Cast Bosses for Bleed / Drain Ports

Slot Vented Ball for Thermal Expansion

Vacuum Service to 29 inches Hg

Four Point ISO 5211 Mounting Pad Bolt Circle

Suffix	Option
-01	Standard (Locking Kit and Grounded Stem)
-14	Side Vented Ball (See Page J2)
-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 (Stainless Steel Valves Only)
-60	Grounded Ball and Stem
-65	MPTFE Seats and Graphite Packing
-69	Drilled and Tapped Purge Ports with Plugs
-70	4" Extended Bonnet
-MG	Gear Operater with Standard Handwheel
-MH	Gear Operater with Standard Handwheel &
	Locking Device
-MJ	Gear Operater with Oversize Handwheel
-MK	Gear Operater with Oversize Handwheel &

Locking Device

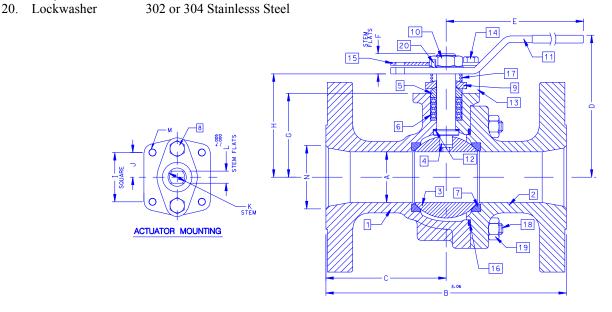
Materials of Construction

19.

Body Joint Nut

Description		Material
1.	Body	ASTM A351 CN7M
2.	Retainer	ASTM A351 CN7M
3.	Ball	ASTM B473 (UNS N08020) or CN7M
4.	Stem	ASTM B473 (UNS N08020)
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 Stainless Steel
10.	Stem Nut	18-8 Stainless Steel
11.	Lever	316 Stainless Steel with Vinyl Grip
12.	Stem Bearing	RPTFE
13.	Stop	ASTM A276 Type 316
14.	Stop Screw	316 Stainless Steel
15.	Lock Plate	302 or 304 Stainless Steel
16.	Body Seal	RPTFE
17.	Grounding Spring	Stainless Steel
18.	Body Joint Stud	ASTM A193 Grade B8M

ASTM A194 Grade 8



Number	Size	Α	В	C	D	Е	F	G	Н	I	J	K	L	M	N
87A-809-01	2-1/2"	2.00	9.50	4.75	5.61	8.40	0.80	3.31	4.08	1.949	0.974	0.750	0.477	5/16-18	2.50
87A-800-01	3"	2.50	11.12	5.56	6.23	8.40	0.80	3.93	4.70	1.949	0.974	0.750	0.477	5/16-18	3.00

Apollo 87A-800 Series

Alloy 20 ANSI Class 300 Flanged Standard Port Ball Valve - 4" through 8"

Standards Compliance

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"

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

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

MSS SP-25 - "Standard Marking System for Valves"

MSS SP-61 - "Pressure Testing of Steel Valves"

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

ASME B31.1, B31.3, & B31.8 - Pressure Piping Standards

Materials of Construction

19. Body Joint Nut

21. Pipe Handle

20.

Adapter Screw

Desc	cription	Material
1.	Body	ASTM A351 CN7M
2.	Retainer	ASTM A351 CN7M
3.	Ball	ASTM B473 (UNS N08020) or CN7M
4.	Stem	ASTM B473 (UNS N08020)
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 Stainless Steel
10.	Adapter Screw	18-8 Stainless Steel
11.	Handle Adapter	316 Stainless Steel
12.	Stem Bearing	RPTFE
13.	Stop	ASTM A276 Type 316
14.	Stop Screw	316 Stainless Steel
15.	Lock Plate	302 or 304 Stainless Steel
16.	Body Seal	RPTFE
17.	Grounding Spring	Stainless Steel
18.	Body Joint Stud	ASTM A193 Grade B8M

ASTM A194 Grade 8

18-8 Stainless Steel

Standard Features

Two Position Locking Device Antistatic Grounded Stem CHV Style Adjustable Stem Seals

Blow-out Proof Stem Design

Cast Bosses for Bleed / Drain Ports

Four Point ISO 5211 Mounting Pad Bolt Circle

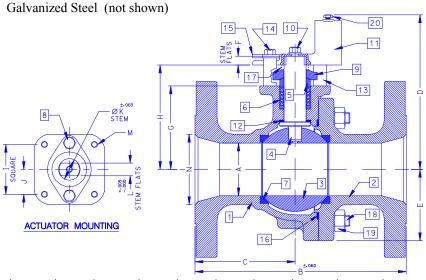
Slot Vented Ball for Thermal Expansion

Vacuum Service to 29 inches Hg

Options Available

Locking Device

Suffix	Option
-01	Standard (Locking Kit and Grounded Stem)
-14	Side Vented Ball (See Page J2)
-21	UHMWPE Seats
-24	Fire Safe (Graphite Packing and Seal)
-35	PTFE Seats and Seals
-49	Assembled Dry
-57	Oxygen Cleaned (Stainless Steel Valves Only)
-60	Grounded Ball and Stem
-65	MPTFE Seats and Graphite Packing
-70	4" Extended Bonnet (4" & 6" Valves Only)
-MG	Gear Operater with Standard Handwheel
-MH	Gear Operater with Standard Handwheel &
	Locking Device
-MJ	Gear Operater with Oversize Handwheel
-MK	Gear Operater with Oversize Handwheel &



Number	Size	Α	В	C	D	Е	F	G	Н	I	J	K	L	M	N
87A-80A-01	4"	3.00	12.00	5.68	8.80	3.88	0.50	4.75	5.95	2.840	1.420	1.250	0.725	3/8-16	4.00
87A-80C-01	6"	4.00	15.88	7.38	9.99	5.13	0.50	5.94	7.13	2.840	1.420	1.250	0.725	3/8-16	6.00
87A-80E-01	8"	6.00	19.75	9.00	13.73	7.00	1.00	7.75	9.48	4.596	2.298	2.000	1.375	3/4-10	8.00