

## 76-100 Series Stainless Steel Ball Valve



A276-316

A276-316

18-8 SS

PTFE

## 1/4" - 1"

Threaded, 2000 psig WOG. (See referenced P/T chart)

Cold Non-Shock. 150 psig Saturated Steam, Vacuum Service to 29 inches Hg. Federal Specification: WW-V-35C, Type: II, Composition: SS, Style: 3.

MSS SP-110; Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends.

## FEATURES

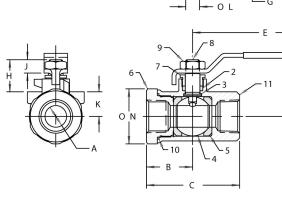
- Investment cast components
- Reinforced seats
- Mounting pad for easy actuator mounting
- Blow-out-proof stem design
- Adjustable packing glandMeets NACE MR-01-75
- SS lever and nut

• (-24) 1/4" to 2" Certified to API 607, 4th Edition, Class 600 burn

- 1. Lever and grip
- 2. Stem packing
- 3. Stem bearing
- 4. Ball
- 5. Seat (2)
- 6. Retainer

STANDAR	D MATERIAL LIST
304 SS w/vinyl MPTFE RPTFE A276-316 RPTFE A351-CF8M	7. Gland nut 8. Stem 9. Lever nut 10. Body seal 11. Body
11001 01 0101	

F F	– #10-24 UNC
	-
	) "Apollo"



10. Body seal 11. Body A351-CF8M

## **OPTIONS AVAILABLE:**

SUFFIX)	OPTION	SIZES
-02-	Stem Grounded	1/4" to 3"
-04-	2-1/4" CS Stem Extension	1/4" to 3"
-07-	Steel Tee Handle	1/4" to 2"
-08-	90° Reversed Stem	1/4" to 3"
-14-	Side Vented Ball (Uni-Directional)	1/4" to 2"
-15-	Wheel Handle, Steel	1/4" to 2"
-16-	Chain Lever - Vertical	3/4" to 2"
-19-	Lock Plate	1/4" to 2"
-21-	UHMWPE Trim (Non-PTFE)	1/4" to 3"
-24-	Graphite Packing	1/4" to 3"
-27-	SS Latch-Lock Lever & Nut	1/4" to 3"
-30-	Cam-Lock and Grounded	1/4" to 2"
-32-	SS Tee Handle & Nut	1/4" to 2"
-35-	VTFE Trim	1/4" to 3"
-39-	SS Hi-Rise Locking Wheel Handle, SS Nut	1/4" to 2"
-40-	Cyl-Loc and Grounded	1/4" to 2"
-44-	Seal Welded	1/4" to 2"
-45-	Less Lever & Nut	1/4" to 3"
-46-	Latch Lock Lever - Lock in Closed Position Only	1/4" to 3"
-47-	SS Latch Lock Oval Handle	1/4" to 1"
-48-	SS Oval Handle (No Latch) & Nut	1/4" to 2"
-49-	Assembled Dry	1/4" to 3"
-50-	2-1/4" CS Locking Stem Extension	1/4" to 3"
-57-	Oxygen Cleaned	1/4" to 3"
-58-	Chain Lever - Horizontal	3/4" to 2"
-60-	Static Grounded Ball & Stem	1/4" to 3"
-64-	250# Steam Trim	1/4" to 3"
-P01-	BSPP (Parallel) Thread Connection	1/4" to 3"
-T01-	BSPT (Tapered) Thread Connection	1/4" to 3"

#### STAINLESS STEEL BALL VALVE

NUMBER	SIZE	A	В	С	D	Е	F	G	Η	J	K	L	М	Ν	WT.
76-101-01A	1/4″	.37	1.02	2.05	1.71	3.85	.50	1.12	.88	.34	.53	.375	.234	1.16	.58
76-102-01A	3/8"	.37	1.02	2.05	1.71	3.85	.50	1.12	.88	.34	.53	.375	.234	1.16	.55
76-103-01A	1/2″	.50	1.12	2.23	1.79	3.85	.50	1.12	.90	.34	.59	.375	.234	1.38	.63
76-104-01A	3/4"	.68	1.47	2.96	2.03	4.75	.87	1.37	1.02	.42	.78	.437	.256	1.75	1.30
76-105-01A	1″	.87	1.67	3.34	2.16	4.75	.87	1.37	1.02	.42	.91	.437	.256	1.94	1.60

For Pressure/Temperature Ratings, Refer to Page M-12, Graph No. 14



## 76-100 Series Stainless Steel Ball Valve



SIZES 1/4" to 3"

1-1/4" - 2"

Threaded, 1500 psig WOG. (See referenced P/T chart)

Cold Non-Shock. 150 psig Saturated Steam, Vacuum Service to 29 inches Hg. Federal Specification: WW-V-35C, Type: II, Composition: SS, Style: 3.

MSS SP-110; Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends.

## FEATURES

- Investment cast components
- Reinforced seats

- Mounting pad for easy actuator mounting
- Blow-out-proof stem design
- Adjustable packing gland
- Meets NACE MR-01-75
- SS lever and nut
- (-24) 1/4" to 2" Certified to API 607, 4th Edition, Class 600 burn

- l. Lever and grip
- 2. Stem packing
- 3. Stem bearing
- 4. Ball
- 5. Seat (2) 6. Retainer

STANDARD	MATERIAL LIST
304 SS w/vinyl	7. Gland nut
MPTFE	8. Stem
A276-316	9. Lever nut
RPTFE	10. Body seal
A351-CF8M	11. Body

9. Lever nut 18- 10. Body seal PT	76-316 8 SS FE 51-CF8M

#### **OPTIONS AVAILABLE:** OPTION

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	-02-	Stem Grounded	1/4 to 3
	-04-	2-1/4" CS Stem Extension	1/4" to 3"
1/4"-20 UNC	-07-	Steel Tee Handle	1/4" to 2"
	-08-	90° Reversed Stem	1/4" to 3"
	-14-	Side Vented Ball (Uni-Directional)	1/4" to 2"
	-15-	Wheel Handle, Steel	1/4" to 2"
	-16-	Chain Lever - Vertical	3/4" to 2"
	-19-	Lock Plate	1/4" to 2"
	-21-	UHMWPE Trim (Non-PTFE)	1/4" to 3"
-	-24-	Graphite Packing	1/4" to 3"
— E —	-27-	SS Latch-Lock Lever & Nut	1/4" to 3"
<i>Γ</i> <sup>-1</sup>	-30-	Cam-Lock and Grounded	1/4" to 2"
	-32-	SS Tee Handle & Nut	1/4" to 2"
-2	-35-	VTFE Trim	1/4" to 3"
-   3 11 D	-39-	SS Hi-Rise Locking Wheel Handle, SS Nut	1/4" to 2"
	-40-	Cyl-Loc and Grounded	1/4" to 2"
	-44-	Seal Welded	1/4" to 2"
	-45-	Less Lever & Nut	1/4" to 3"
<del></del>	-46-	Latch Lock Lever - Lock in Closed Position Only	1/4" to 3"
	-47-	SS Latch Lock Oval Handle	1/4" to 1"
	-48-	SS Oval Handle (No Latch) & Nut	1/4" to 2"
5	-49-	Assembled Dry	1/4" to 3"
	-50-	2-1/4" CS Locking Stem Extension	1/4" to 3"
	-57-	Oxygen Cleaned	1/4" to 3"
	-58-	Chain Lever - Horizontal	3/4" to 2"
	-60-	Static Grounded Ball & Stem	1/4" to 3"
	-64-	250# Steam Trim	1/4" to 3"
	-P01-	BSPP (Parallel) Thread Connection	1/4" to 3"
	-T01-	BSPT (Tapered) Thread Connection	1/4" to 3"

SUFFIX)

													-60- -64- -P01- -T01-
E	Ā	B	C	D	E	F	G	н	I	K	L	M	1 W

For Pressure/Temperature Ratings, Refer to Page M-11, Graph No. 12

NUMBER	SIZE	A	В	С	D	Е	F	G	H	J	K	L	М	WT.
76-106-01	1-1/4"	1.00	2.00	4.00	2.68	5.40	.94	1.50	1.50	.60	1.12	.625	.377	3.10
76-107-01	1-1/2"	1.25	2.17	4.34	3.25	7.75	.94	1.50	1.50	.60	1.28	.625	.377	4.20
76-108-01	2″	1.50	2.69	5.43	3.24	7.75	.94	1.50	1.46	.60	1.50	.625	.377	6.10

- 10

С

В



## 76-100 Series Stainless Steel Ball Valve 2-1/2" - 3"



#### Threaded, 1000 psig WOG. (See referenced P/T chart)

Cold Non-Shock. 150 psig Saturated Steam, Vacuum Service to 29 inches Hg. Federal Specification: WW-V-35C, Type: II, Composition: SS, Style: 3.

MSS SP-110; Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends.

## FEATURES

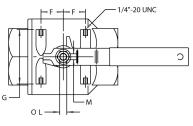
- Investment cast components
- Reinforced seats

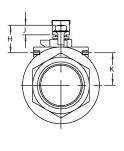
- Mounting pad for easy actuator mounting
- Blow-out-proof stem design
- Adjustable packing glandMeets NACE MR-01-75
- SS lever and nut
- (-24) 1/4" to 2" Certified to API 607, 4th Edition, Class 600 burn

1	Lever	and	arin

- 2. Stem packing
- 3. Stem bearing
- 4. Ball
- 5. Seat (2)
- 6. Retainer

× 11 11	
304 SS w/vinyl	
MPTFE	
RPTFE	
A276-316	
RPTFE	
A351-CF8M	





# F - 10 В

### STANDARD MATERIAL LIST 7 Cland nut

7. Gland nut	A276-316
8. Stem	A276-316
9. Lever nut	18-8 SS
10. Body seal	PTFE
11. Body	A351-CF8M

## **OPTIONS AVAILABLE:**

SUFFIX)	OPTION	SIZES
-02-	Stem Grounded	1/4" to 3"
-04-	2-1/4" CS Stem Extension	1/4" to 3"
-07-	Steel Tee Handle	1/4" to 2"
-08-	90° Reversed Stem	1/4" to 3"
-14-	Side Vented Ball (Uni-Directional)	1/4" to 2"
-15-	Wheel Handle, Steel	1/4" to 2"
-16-	Chain Lever - Vertical	3/4" to 2"
-19-	Lock Plate	1/4" to 2"
-21-	UHMWPE Trim (Non-PTFE)	1/4" to 3"
-24-	Graphite Packing	1/4" to 3"
-27-	SS Latch-Lock Lever & Nut	1/4" to 3"
-30-	Cam-Lock and Grounded	1/4" to 2"
-32-	SS Tee Handle & Nut	1/4" to 2"
-35-	VTFE Trim	1/4" to 3"
-39-	SS Hi-Rise Locking Wheel Handle, SS Nut	1/4" to 2"
-40-	Cyl-Loc and Grounded	1/4" to 2"
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-64-	250# Steam Trim	1/4" to 3"

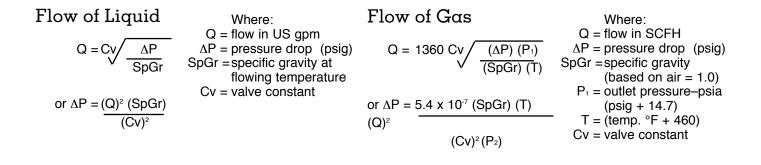
#### For Pressure/Temperature Ratings, Refer to Page M-10, Graph No. 8

NUMBER	SIZE	A	В	C	D	E	F	G	Η	J	K	L	М	WT.
76-109-01	2-1/2"	2.50	3.38	6.75	4.03	7.75	1.38	3.37	1.71	.60	2.00	.625	.377	15.60
76-100-01	3"	2.50	3.38	6.75	4.03	7.75	1.38	3.37	1.71	.60	2.00	.625	.377	16.50

C

## FLOW DATA For Apollo® Ball Valves

The listed Cv "factors" are derived from actual flow testing, in the Apollo<sup>®</sup> Ball Valve Division, Conbraco Industries, Inc., Pageland, South Carolina. These tests were completed using standard "off the shelf" valves with no special preparation and utilizing standard schedule 40 pipe. It should be understood that these factors are for the valve only and also include the connection configuration. The flow testing is done utilizing water as a fluid media and is a direct statement of the gallons of water flowed per minute with a 1 psig pressure differential across the valve/connection unit. Line pressure is not a factor. Because the Cv is a factor, the formula can be used to estimate flow of most media for valve sizing.



#### Cv FACTORS SERIES: 70-100, 71-100, 71AR, 73A-100, 74-100, 76-100, 76AR, 80-100 81-100, 89-100

SIZE	1/4"	3/8"	1/2"	3/4"	1″	1-1/4"	1-1/2"	2″	2-1/2"	3″	4″
<b>OPEN</b>   90°	8.4	7.2	15	30	43	48	84	108	503	370	670

Cv FACTORS 76F, 77, 77AR, 77C, 77D SERIES

SIZE	1/4″	3/8"	1/2"	3/4"	1″	1-1/4"	1-1/2"	2″	2-1/2"
<b>OPEN</b>   90°	8.1	15	15	51	68	125	177	389	503

Cv FACTORS

82-100/200, 83R-100/200/700,85R-100/200,86R-100/200/700,83-500/600,86-500/600/900 SERIES

SIZE	1/4"	3/8"	1/2"	3/4"	1″	1-1/4"	1-1/2"	2″	2-1/2"	3"	4″
<b>OPEN</b>   90°	8.1	14	26	51	68	120	170	376	510	996	1893

Cv FACTORS 83A/83B, 86A/86B, 86C SERIES

Γ	SIZE		1/4"	3/8"	1/2″	3/4"	1″	1-1/4"	1-1/2"	2″
	OPEN	90°	8.1	14	26	51	68	120	170	376

