

83R-200 Series



Carbon Steel 3-Piece Full Port Socket Weld Ball Valve With Actuator Ready ISO Mounting Pad

Socket Weld, 800 psig CWP, Cold Non-Shock. 150 psig Saturated Steam. Vacuum Service to 29 inches Hg. Federal Specification: WW-V-35C, Type: II, Composition: CS, Style: 1. MSS SP-110; Ball Valve Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends. Meets NACE MR-01-75

FEATURES

- Multi-piece packing set
- ISO 5211 mounting pad
- Blow-out-proof stem design
- In-line repairable

- Adjustable packing gland
- Investment cast components
- Reinforced seats and seals
 Full part configuration
- Full port configuration

STANDARD MATERIAL LIST

1. Stem

- 2. Jam nut
- 3. Low profile nut
- 4. Gland
- 5. Stem bearing
- 6. End cap (2)
- 7. Hex nut (4)

A108-CS Steel, zinc plate 316 SS A276-316 RPTFE A216-WCB Stl-gr. 8-zinc plt

8. Seat (2)

- 9. Ball
- 10. Body bolt (4) 11. Stem packing
- 11. Stem pac 12. Body
- 13. Lock tab washer
- 14. Lever and grip

RPTFE A108-CS chrome plate Stl-gr. 8-zinc plt MPTFE ASTM A216-WCB 304 SS Stl-zinc plt-w/vinyl

VARIATIONS AVAILABLE:

• 83R-240 Series (316 SS Ball & Stem)

OPTIONS AVAILABLE:

(SUFFIX)	OPTION
-02-	Static Grounded
-03-	1-1/4" Stem Extension
-04-	2-1/4" Stem Extension
-08-	90° Reversed Stem
-10-	SS Lever & Nut
-14-	Vented Ball
-18-	Plain Yellow Grip
-21-	UHMWPE Seats (Non-PTFE)
-24-	Graphite Stem Packing
-27-	Latch Lock Lever
-35-	VTFE Trim
-36-	SS Round Handle
-39-	SS Hi-Rise Locking Wheel Handle, SS Nut
-59-	SS External Trim - 3-pc. Valves
-60-	Grounded Ball & Stem
-AR-	Less Handle & Stop-Add Belleville Washers
-WB-	With Lever & Belleville Washers

For Pressure/Temperature Ratings, Refer to Page M-10, Graph No. 7

CARBON STEEL 3-PIECE FULL PORT SOCKET WELD BALL VALVE WITH ISO MOUNTING PAD

NUMBER	SIZE	A	В	С	D	E	F	G	н	Ι	J (FLATS)	K (THRDS.) UNF	L	М	N
83R-208-01	2"	2.00	3.01	6.03	3.95	8.06	.98	1.95	1.16	.34	.370/.372	5/8-18	2.405	1.05	4.85





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STANDARD MATERIAL LIST

- 1. Body
- 2. End Caps
- 3. Ball
- 4. Stem
- 5. Packing Gland
- 6. Stem Seal
- 7. Seats (2)
- 8. Gland Screws (2)
- 9. Gland Plate
- 10.Adapter Screw
- 11.Handle Adapter

ASTM A216-WCB ASTM A216-WCB A108-CS, Chrome Plated A108-CS CS MPTFE RPTFE SS SS SS SS

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- 12. Stem Bearing 13. Stops (2)
- 14. Stop Screws (2) 15. Lock Plate
- 16. Grounding Spring
- 17. Body Bolts (6)
- 18. Heavy Hex Nuts (6)
- 19. Body Seals (2) 20. Seat Holders (2)
- 21. Pipe Handle

-57--60RPTFE CS

RPTFE

SS

SS

SS

SS SS

SS

(not shown)

14 15 G L STEM FLATS 13 đ 12 ш z £.003 19 STEM 17 20 R Μ SQUARE STEM

VARIATIONS AVAILABLE:

83R-240 Series (316 SS Ball & Stem)

OPTIONS AVAILABLE:

OPTION (SUFFIX) -02-

- Static Grounded -14-Vented Ball
 - Graphite Stem Packing
- -24-VTFE Trim -35-
- -49-Assembled Dry
 - Cleaned For Gaseous Oxygen
 - Grounded Ball & Stem

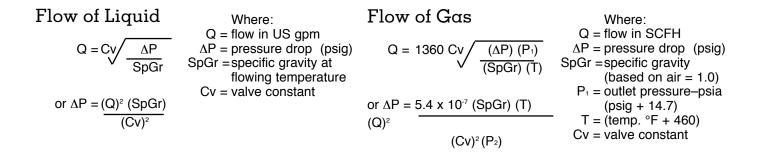
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CARBON STEEL 3-PIECE FULL PORT SOCKET WELD BALL VALVE WITH ISO MOUNTING PAD

NUMBER	SIZE	A	В	С	D	Е	F	G	Н	Ι	J (FLATS)	К	L (THRDS.) UNF	М	N
83R-200-01	3"	3.00	4.00	8.00	8.80	4.75	5.94	.50	1.420	2.840	.725	1.250	3/8-16	1.37	3.54

FLOW DATA For Apollo® Ball Valves

The listed Cv "factors" are derived from actual flow testing, in the Apollo[®] 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″
OPEN 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"
OPEN 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″
OPEN 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

