

85B-200 SERIES

STAINLESS STEEL 3-PIECE STANDARD PORT CLASS 600 SOCKET WELD BALL VALVE



STANDARD COMPLIANCE

- Valve Design: ASME B16.34, Class 600, NACE MR0175 (2000) & MR0103 (2012), API 608
- End Connections: Socket-weld per ASME B16.11

- Valve Marking: ASME B16.34
- Production Testing: ASME B16.34

FEATURES

- 3-piece construction with enclosed fasteners
- Standard port
- Stainless steel trim & hardware
- Swing-out center section
- Pressure balanced solid ball
- Compression controlled spiral wound gaskets
- Anti-blowout one piece bottom entry stem
- Statically grounded ball, stem, & body

- Two-position locking
- Adjustable multi-piece PTFE “V” style packing
- Fully machined ISO 5211 mounting
- Cast bosses on the center-section and end caps for bleed & drain ports
- Fire safe to API 607 (requires -24 suffix)
- Vacuum service to 29 in of Hg.
- CE Marking, 1.00” and larger (add “-CE” suffix)
- •250 psig saturated steam
- CGA 3.16-M88 (2014)

STANDARD MATERIAL LIST

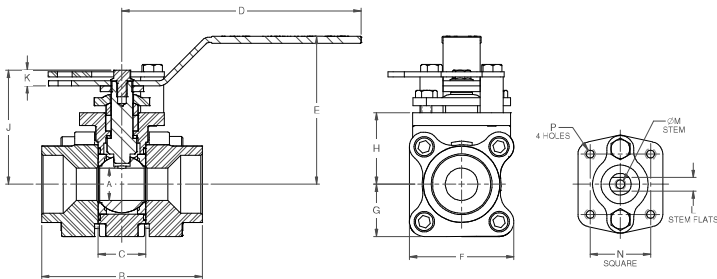
	PART	MATERIAL
1	Body	ASTM A351-CF8M
2	End Caps	ASTM A351-CF3M
3	Ball	ASTM A276-316SS
4	Stem	ASTM A276-316SS ASTM A564 17-4PH (2" with -38 suffix)
5	Seat	Multi-Seal
6	Packing	PTFE
7	Stem Bearing	PEEK/PTFE
8	Body Gasket	PTFE Spiral Wound
9	Body Bolts	ASTM A193-Gr. B8M3
10	Stop Bolts	18-8 Stainless Steel
11	Gland Bolts	ASTM A193-Gr. B8
12	Handle Nut/Screw	300 Series Stainless Steel
13	Packing Gland	ASTM A276-316SS
14	Gland Plate	300 Series Stainless Steel
15	Lever Handle	300 Series Stainless Steel
16	Lock Plate	300 Series Stainless Steel
17	Stops	300 Series Stainless Steel
18	Internal Grounding Spring	300 Series Stainless Steel
19	External Grounding Spring	300 Series Stainless Steel

OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the “01” standard suffix with the suffix of the option.
- To specify multiple options, replace the “01” suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

(SUFFIX)	OPTION	SIZES
-01	Standard Configuration	All
-04-	2.25" Stem Extension (Carbon Steel, Zinc Plated)	3/4" to 2-1/2"
-14-	Vented Ball	3/4" to 2-1/2"
-15-	Round Handle	3/4" to 2-1/2"
-21-	UHMWPE Seats w/Graphite Seals	3/4" to 2-1/2"
-24-	Graphite Packing, Spiral Wound Graphite Body Seal, PTFE/PEEK Bearing (Fire Safe API 607 5th Edition, ISO 10497-5:2004)	3/4" to 2-1/2"
-38-	PEEK Seats, Graphite Stem Packing & Gaskets	3/4" to 2-1/2"
-49-	No Lubrication, Assembled Dry.	3/4" to 2-1/2"
-57-	Cleaned for Oxygen Service	3/4" to 2-1/2"
-62-	Center Section Only	3/4" to 2-1/2"
-69-	Drilled & Tapped Purge & Drains	3/4" to 2-1/2"
-70-	4" Extended Bonnet	3/4" to 2-1/2"
-76-	Live Loaded (Lever Operated)	3/4" to 2-1/2"
-77-	Live Loaded (Actuated)	3/4" to 2-1/2"
-90-	Double Packed 4" Extended Bonnet	3/4" to 2-1/2"
-9P-	Double Packed 4" Extended Bonnet w/ Monitoring Port	3/4" to 2-1/2"
-CE-	CE Marking	1-1/2" to 2-1/2"
-EF-	Graphite Packing (API 641 Compliant)	3/4" to 2-1/2"
-KF-	PCTFE Stem Bearing	3/4" to 2-1/2"
-SR-	Spring Return Handle	3/4" to 1"
-UL-	UL Listed	3/4" to 2-1/2"



Pressure/Temperature Ratings - Page M-20, Graph No. 26

DIMENSIONS

PRODUCT NO.	SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	WT.
85B-204-01	3/4"	0.50	2.80	0.89	5.12	3.02	2.02	1.01	1.39	1.98	0.24	0.245	0.375	1.00	10-24	2.3
85B-205-01	1"	0.75	3.70	1.10	5.53	3.40	2.40	1.20	1.65	2.37	0.24	0.312	0.500	1.392	1/4-20	4.1
85B-207-01	1.5"	1.25	4.58	1.73	6.65	4.61	3.52	1.76	2.38	3.78	0.72	0.412	0.625	1.949	5/16-18	11.5
85B-208-01	2"	1.50	4.98	1.97	6.65	4.70	3.84	1.92	2.49	3.89	0.69	0.412	0.625	1.949	5/16-18	14.8
85B-209-01	2.5"	2.00	5.86	2.56	8.40	5.47	4.56	2.33	3.17	4.74	0.77	0.477	0.750	1.949	5/16-18	24.6