

Building connections that last™

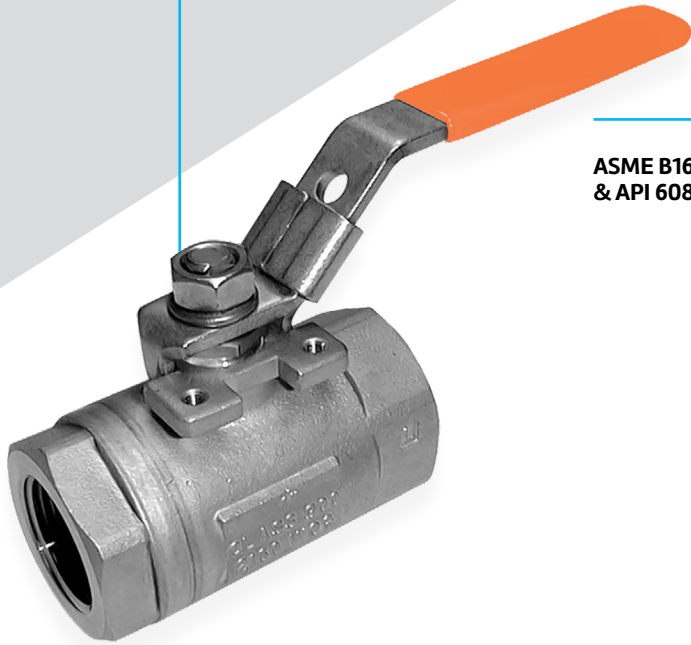
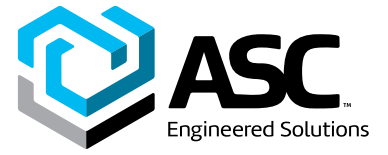


Series SB

ASME Class 900, Seal Welded
Ball Valve Datasheet



ASME Class 900, Seal Welded Ball Valves Series SB



**ASME B16.34
& API 608 Compliant**

Features

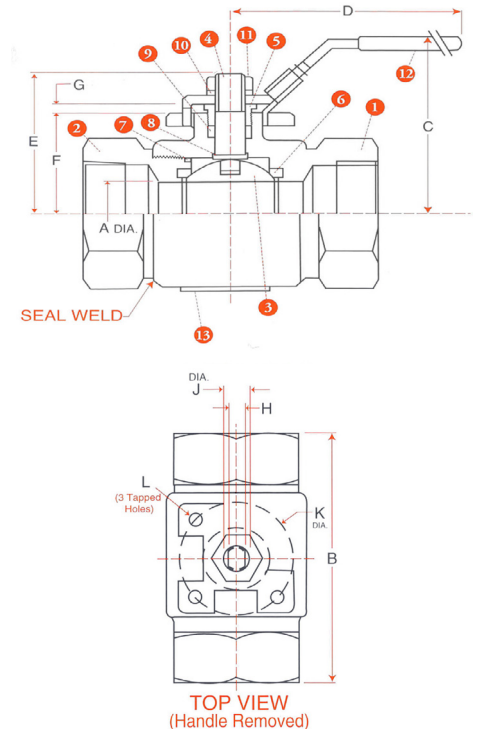
- The Ultimate Valve for Safe High Pressure Service!
- Seal Welded Construction
- Fully Compliant with ASME B16.34 Class 900
- 2160 PSI CWP, CF8M Stainless Steel Rating
- 2220 PSI CWP, WCB Carbon Steel Rating
- Available in WCB Carbon Steel with 316SS Trim, or Full CF8M/316Stainles
- R-PTFE or PEEK Seats
- Fully Compliant with API 608, 5th Edition
- All Models are API 607, 7th Edition Fire Safe
- Standard Locking Stainless Steel Handles
- Standard ISO Actuator Mounting Pads on all Sizes
- Quadrant valves, actuators, controls, and accessories are designed to work together, delivering exceptional performance.

Ratings

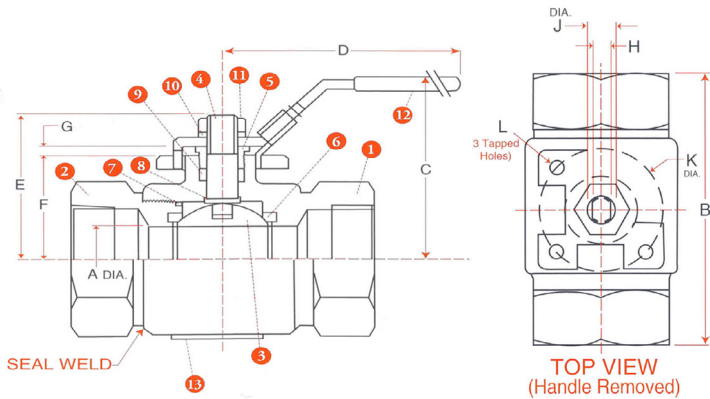
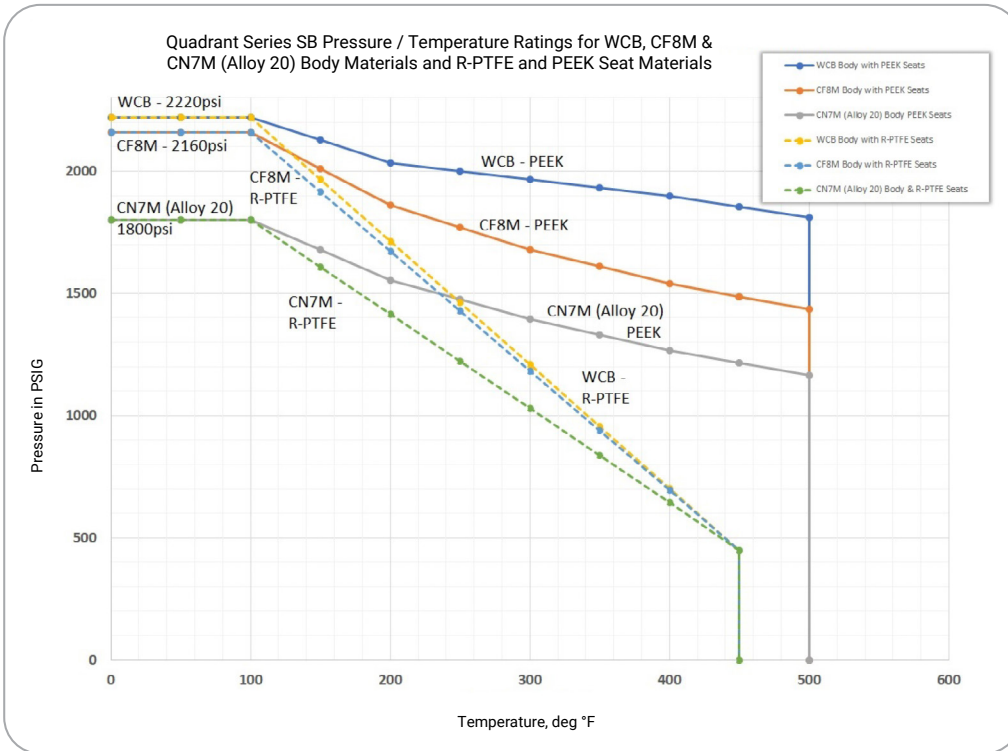
- 2220 PSIG @100°F (A216 WCB Carbon Steel)
- 2160 PSIG @100°F (A351 CF8M Stainless Steel)
- 250 PSIG Saturated Steam

Materials of Construction

Part	Description	Standard Material	Alloy 20 Construction
1	Body	ASTM A351 CF8M or A216 WCB	ASTM A351 CN7M
2	Tailpiece	ASTM A351 CF8M or A216 WCB	ASTM A351 CN7M
3	Ball	ASTM A276 316 SS	ASTM A351CN7M
4	Stem	ASTM A276 316 SS	ASTM B473 N08020
5	Packing Nut	ASTM A276 316 SS	ASTM A276 316 SS
6	Seats (2)	R-PTFE (Glass Reinforced PTFE) or PEEK	R-PTFE (Glass Reinforced PTFE) or PEEK
7	Tailpiece Seal	Graphite	Graphite
8	Thrust Washer	PTFE	PTFE
9	Stem Packing	Graphite	Graphite
10	Lock Washer	304 SS	304 SS
11	Handle Nut	304 SS	304 SS
12	Handle Assy	304 SS	304 SS
13	Name Plate	300 SS	304 SS



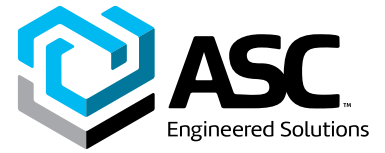
ASME Class 900, Seal Welded Ball Valves Series SB



Dimensions, Weights, Cv Factors & Maximum Operating Torque

Size	A (PORT)	B	C	D	E	F	G	H	J (DIA)	K (DIA)	L (3 TAPPED HOLES)	ISO Pattern	Weight Lbs.	Cv	Max Torque (R-PTFE)	Max Torque (PEEK)
¼" - ⅜"	0.43	2.64	2.22	5.02	1.53	0.92	0.21	0.20	0.31	1.42	¼"-20 UNC	F03	1.00	10	34 IN-LB	63 IN-LB
½"	0.43	2.64	2.22	5.02	1.53	0.92	0.21	0.20	0.31	1.42	¼"-20 UNC	F03	1.00	16	63 IN-LB	85 IN-LB
¾"	0.59	3.08	2.72	5.57	2.06	1.17	0.29	0.28	0.44	1.65	¼"-20 UNC	F04	1.80	27	100 IN-LB	150 IN-LB
1"	0.81	3.54	3.00	5.57	2.33	1.33	0.40	0.28	0.44	1.65	¼"-20 UNC	F04	2.40	42	120 IN-LB	200 IN-LB
1-¼"	0.98	4.00	3.67	7.20	2.76	1.61	0.44	0.35	0.56	1.97	⅝"-18 UNC	F05	4.00	52	210 IN-LB	255 IN-LB
1-½"	1.25	4.25	3.86	7.72	2.98	1.81	0.46	0.35	0.56	1.97	⅝"-18 UNC	F05	5.30	80	255 IN-LB	380 IN-LB
2"	1.50	4.94	4.06	7.72	3.18	1.98	0.49	0.35	0.56	1.97	⅝"-18 UNC	F05	8.10	115	270 IN-LB	500 IN-LB

ASME Class 900, Seal Welded Ball Valves Series SB



Numbering System How to order Series SB

SB	R	S	S	R	G	SL	TT	100
Series	Port Size	Body Material	Ball/Stem Material	Seat Material	Seal Material	Handle Type	Ends	Size
SB Seal Welded ASME Class 900 2160 PSI CWP (SS) 2220 PSI CWP (CS) 1800 PSI CWP (A-20)	R Reduced (½"-2")	S Stainless (ASTM A351-CF8M)	S 316 Stainless	R* R-PTFE (Glass Reinforced PTFE)	G* Graphite	SL Stainless Latch Lock	TT FNPT	025 ¼" (F Port)
	F Full (¼"-¾")							C Carbon (A216-WCB)
		A Alloy20 (A351-CN7M)	LO Locking Stainless Oval	050 ½" (R Port)				
						ST 304SS Tee Handle		075 ¾" (R Port)
						SR Spring Return Handle (deadman)		100 1" (R Port)
						PA Double Acting Pneumatic		125 1-¼" (R Port)
						SA Spring Return Pneumatic		150 1-½" (R Port)
						EA 115VAC Electric Actuated		200 2" (R Port)

* Quadrant Series SB valves with R-PTFE (R) seats and Graphite (G) seals comply with API 607 (American Petroleum Institute - Fire Test).

Note:
Responsibility for proper selection, use and maintenance of any product remains solely with the purchaser and end user. We reserve the right to modify or improve the designs or specifications of any product at any time without notice.

About ASC Engineered Solutions

ASC Engineered Solutions is defined by quality—in its products, services and support. With nearly 2,000 employees, the company's portfolio of precision-engineered piping support, valves and connections provides products to more than 4,000 customers across industries, such as mechanical, industrial, fire protection, oil and gas, and commercial and residential construction. Its portfolio of leading brands includes ABZ Valve®, AFCON®, Anvil®, Anvil EPS, Anvil Services, Basic-PSA, Beck®, Catawissa, Cooplet®, FlexHead®, FPPI®, Gruvlok®, J.B. Smith, Merit®, North Alabama Pipe, Quadrant®, SCI®, Sharpe®, SlideLOK®, SPF®, SprinkFLEX®, Trenton Pipe and VEP. With headquarters in Oak Brook, IL, ASC also has ISO 9001:2015 certified production facilities in PA, TN, IL, TX, AL, LA, KS, and RI.



asc-es.com

Building connections that last™

FC-DS-Series-SB-v03 20231206

