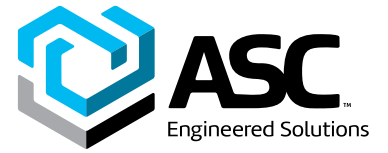


Building connections that last™



Series S3

ASME Class 1500, Seal Welded
Ball Valve Datasheet



ASME Class 1500, Seal Welded Ball Valves Series S3



**ASME B16.34, API 641
& API 608 Compliant**

Features

- The Ultimate Valve for Safe High Pressure Service!
- Seal Welded Construction
- Full Port and Reduced Port Versions Available
- Fully Compliant with ASME B16.34 Class 1500
- 3600 PSI CWP Rating on CF8M Construction
- 3705 PSI CWP Rating on WCB Construction
- Delrin or PEEK Seats
- Several end connections available
- Fully Compliant with API 608, Rev 5
- All Models are API 607 7th Edition Fire Safe
- API 641 Certified, Fugitive Emissions
- 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.

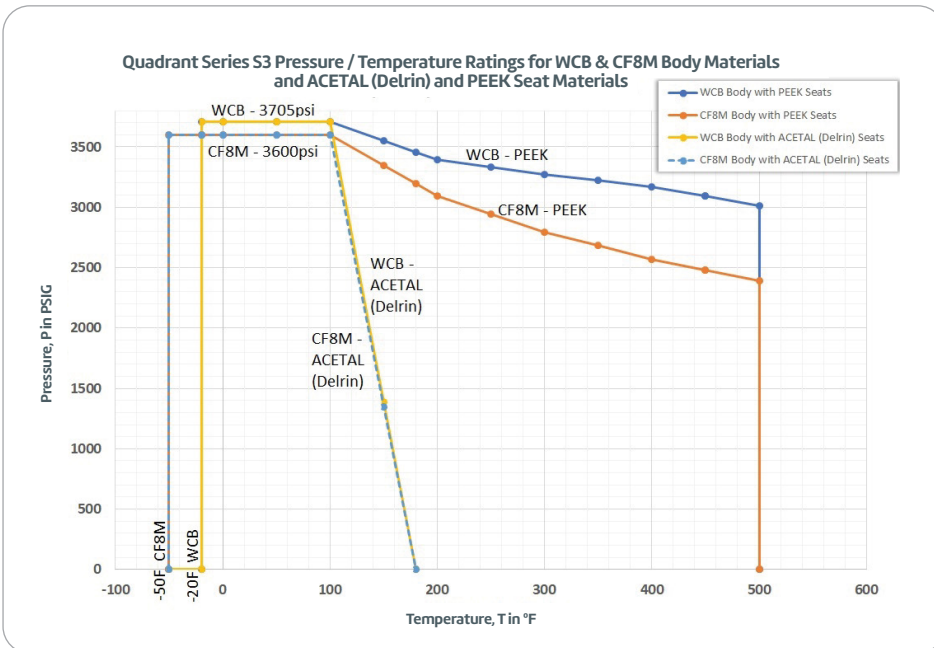
Ratings

3600 PSIG @ 100°F (A351 CF8M Stainless Steel)

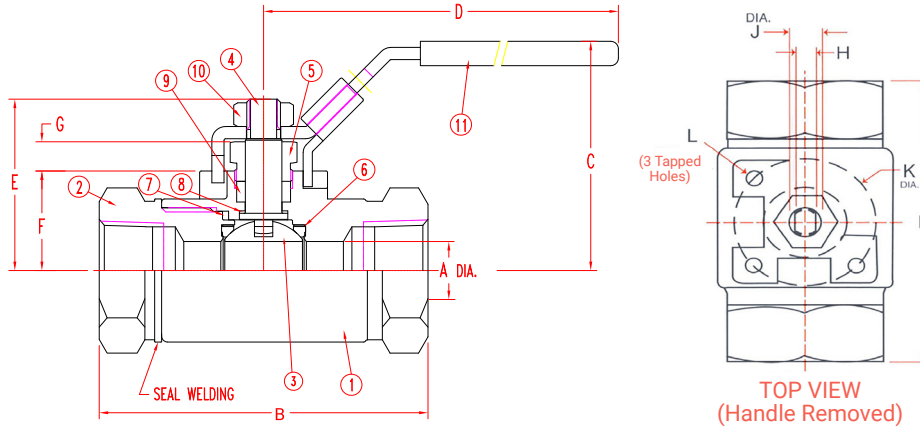
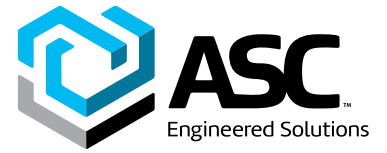
3705 PSIG @ 100°F (A216 WCB Carbon Steel)

No Steam Service Rating (DELTRIN Seats)

250 PSIG Saturated Steam (PEEK Seats)



ASME Class 1500, Seal Welded Ball Valves Series S3



Dimensions, Weights, Cv Factors & Maximum Operating Torque

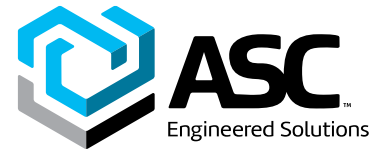
Size	A (Port)	B	C	D	E	F	G	H	J	K	L (3 Tapped Holes)	ISO Pattern	Weight Lbs.	Cv	Max Torque Delrin	Max Torque PEEK
¼" FP	0.25	3.00	2.31	4.94	1.63	0.89	0.34	0.20	0.31	1.42	¼"-20UNC	F03	1.5	10	63 IN-LB	80 IN-LB
¾" RP	0.25	3.00	2.31	4.94	1.63	0.89	0.34	0.20	0.31	1.42	¼"-20UNC	F03	1.5	10	63 IN-LB	80 IN-LB
½" FP	0.50	4.01	2.31	4.94	1.63	0.89	0.34	0.20	0.31	1.42	¼"-20UNC	F03	1.7	16	63 IN-LB	80 IN-LB
¾" FP	0.75	4.25	2.96	5.57	2.22	1.29	0.42	0.28	0.44	1.65	¼"-20UNC	F04	3.0	32	100 IN-LB	120 IN-LB
1" RP	0.75	4.25	2.96	5.57	2.22	1.29	0.42	0.28	0.44	1.65	¼"-20UNC	F04	2.7	44	150 IN-LB	170 IN-LB
1" FP	1.00	4.49	3.70	7.20	2.80	1.65	0.43	0.35	0.56	1.97	¼"-20UNC	F05	4.5	62	340 IN-LB	400 IN-LB
1-¼" FP	1.50	5.29	4.78	13.86	3.87	2.49	0.52	0.39	0.62	2.76	⅝"-18UNC	F07	11.9	140	500 IN-LB	600 IN-LB
1-½" RP	1.25	4.79	4.11	9.72	3.17	2.05	0.53	0.35	0.56	2.76	⅝"-18UNC	F07	8.8	80	450 IN-LB	550 IN-LB
1-½" FP	1.50	5.29	4.78	13.86	3.87	2.49	0.52	0.39	0.62	2.76	⅝"-18UNC	F07	11.9	140	500 IN-LB	600 IN-LB
2" RP	1.50	6.25	4.78	13.86	3.87	2.49	0.52	0.39	0.62	2.76	⅝"-18UNC	F07	13.0	120	500 IN-LB	600 IN-LB
2" FP	2.00	6.36	4.89	13.86	4.87	2.81	0.50	0.47	0.75	2.76	⅝"-18UNC	F07	17.4	365	800 IN-LB	1000 IN-LB

Materials of Construction

Part	Description	Standard Material
1	Body	ASTM A351 GR. CF8M or A216 GR. WCB
2	Tailpiece	ASTM A351 GR. CF8M or A216 GR. WCB
3	Ball	ASTM A276 GR. 316 SS
4	Stem	316 SS (¼" to 1"), 17-4PH SS (1-¼" to 2")
5	Packing Nut	ASTM A276 GR. 316 SS
6	Seats (2)	Acetal (Delrin 100AF) or PEEK
7	Tailpiece Seal	Graphite
8	Thrust Washer	PTFE
9	Stem Packing	Graphite
10	Handle Nut	304 SS
11	Handle Assy	304 SS
12	Name Plate	304 SS



ASME Class 1500,
Seal Welded Ball Valves
Series S3



Numbering System How to order Series S3

S3		F		S	S	A	F	SL	TT		050				
Series		Port Size		Body Material	Ball/Stem Material	Seat Material	Seal Material	Handle Type	Ends		Size				
S3	Seal Welded ASME Class 1500	R	Reduced	S	Stainless 316 SS ball / 316 SS stem (1/4" to 1"), 17-4 PH SS (1-1/4" to 2")	A	ACETAL (Delrin)	G	Graphite	SL	Stainless Latch Lock	TT	FNPT	025	1/4" (F Port)
	F	Full	C									Carbon Steel (cast A216 WCB)	P	Peek	F
										SA	Spring Return Pneumatic	WT	Socket Weld x FNPT	050	1/2" (F Port)
										EA	115VAC Electric Actuated	MT	MNPT x FNPT	075	3/4" (F Port)
														100	1" (F or R Port)
														125	1-1/4" (F Port)
														150	1-1/2" (F or R Port)
														200	2" (F or R Port)

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-S3-v02 20231212

