

# warren® VALVES

## Series W60 Seal Welded Extreme Pressure Ball Valves 1/4" - 2" ASME CLASS 2500

### FEATURES

- SEAL WELDED CONSTRUCTION
- Full Port and Reduced Port Available
- Available in WCB Carbon Steel with 316SS Trim, or CF8M/316 Stainless
- 6000 WOG Rating on CF8M, 6170 WOG on WCB
- Fully Compliant with ASME B16.34 Class 2500
- PEEK Seats and Viton Seats are Standard
- NPT, MxF NPT and Socket Weld Ends Available
- NACE MR-01-75 Compliant
- API 607 Fourth Edition Fire Safe
- Fully Compliant with API 608
- Standard ISO Actuator Mounting Pads on all Sizes
- Standard Locking Stainless Steel Handles
- The Ultimate Valve for Safe Extreme Pressure Service



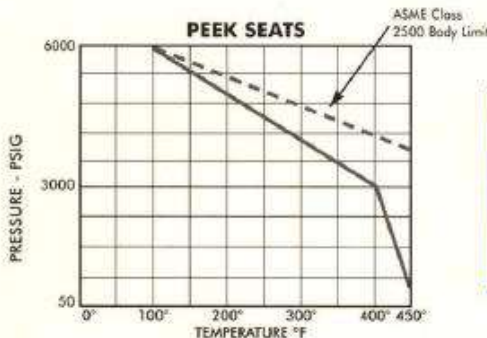
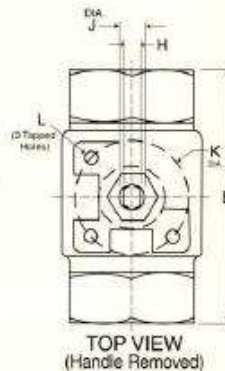
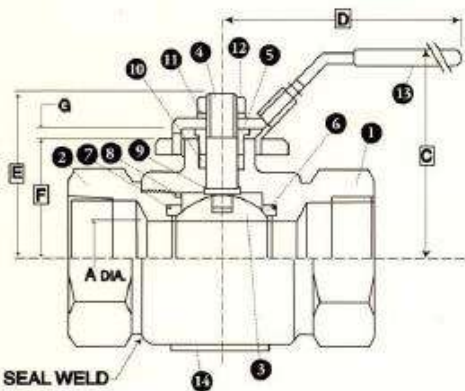
**ASME B16.34 Compliant!**

### RATINGS

6000 PSIG @ 100F WATER, OIL, GAS (CF8M)  
6170 PSIG @ 100F WATER, OIL, GAS (WCB)  
250 PSIG SATURATED STEAM (PEEK SEATS)

### MATERIALS OF CONSTRUCTION

PART	DESCRIPTION	STANDARD MATERIAL
1	BODY	CF8M OR WCB
2	TAILPIECE	CF8M OR WCB
3	BALL	ASTM A276 GR. 316 SS
4	STEM	ASTM A276 GR. 316 SS (1/4"-1 1/2" PH [1.1/2"-2"])
5	PACKING NUT	ASTM A276 GR. 316 SS
6	SEATS (2)	PEEK
8	TAILPIECE SEAL	GRAPHITE
9	THRUST WASHER	PEEK
10	STEM PACKING	GRAPHITE
11	LOCK WASHER	304 SS
12	HANDLE NUT	304 SS
13	HANDLE ASSY.	304 SS
14	NAME PLATE	300 SS



### DIMENSIONS, WEIGHTS, CV FACTORS & MAXIMUM OPERATING TORQUE

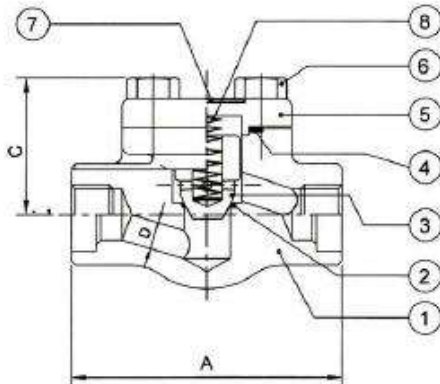
SIZE	A	B	C	D	E	F	G	H	J	K	L	ISO	WEIGHT	CV	MAX TORQUE
										dia.	(D SAPPED HOLES)	(PATTER)	lbs.		in-lb
1/4" FP	.25	3.0	2.3	5.0	1.62	.89	.33	.20	.31	1.42	1/4"-20 UNC	F03	1.7	10	100 in-lb
1/2" FP	.50	4.0	2.3	5.0	1.62	.89	.33	.20	.31	1.42	1/4"-20 UNC	F03	1.7	16	140 in-lb
3/4" FP	.75	4.3	2.9	5.8	2.21	1.29	.41	.28	.43	1.65	1/4"-20 UNC	F04	3.5	32	270 in-lb
1" RP	.75	4.3	2.9	5.8	2.21	1.29	.41	.28	.43	1.65	1/4"-20 UNC	F04	3.6	44	270 in-lb
1" FP	1.0	4.8	3.5	7.4	2.79	1.65	.43	.35	.56	1.97	1/4"-20 UNC	F05	6.8	62	700 in-lb
1-1/2" FP	1.5	5.3	4.5	14.0	3.87	2.51	.49	.39	.62	2.76	5/16"-18UNC	F07	15.7	140	1200 in-lb
2" RP	1.5	6.3	4.5	14.0	3.87	2.51	.49	.39	.62	2.76	5/16"-18UNC	F07	16.0	120	1200 in-lb



## FORGED STAINLESS STEEL LIFT CHECK VALVES

CLASS 800 & 1500  
CONVENTIONAL PORT  
BOLTED CAP

SPRING LOADED  
THREADED OR SOCKET WELD



No.	Parts	Materials	ASTM
1.	Body	Forged Steel	A182-F316L
2.	Seat	Stellite #6	
3.	Disc	Stainless Steel	A351-CF8M
4.	Gasket	Spiral Wound Type 316 + Graphite	
5.	Cover	Forged Steel	A182-F316L
6.	Cover Bolt	Stainless Steel	A193-B8
7.	Name Plate	Stainless Steel	A240-304
8.	Spring	316 Stainless Steel	

CLASS 800 FIGURE NUMBER 804HF  
CLASS 1500 FIGURE NUMBER 1504HF

Size (Inch)	End to End A		Center to Top (open) Approx. C		Port Diameter D		Weight lbs.	
	800	1500	800	1500	800	1500	800	1500
1/4	2.99		1.81		0.25		2.20	
3/8	2.99		1.81		0.37		2.20	
1/2	2.99	3.62	1.81	2.20	0.37	0.37	2.20	3.31
3/4	3.62	4.09	2.20	2.72	0.49	0.50	3.31	4.41
1	4.09	5.51	2.80	3.35	0.73	0.63	4.41	9.04
1 - 1/4	5.51	5.75	2.95	3.98	0.93	0.87	9.04	14.11
1 - 1/2	5.51	5.75	2.95	3.98	1.20	1.06	9.04	14.11
2	5.75	8.27	3.98	4.92	1.42	1.38	14.11	21.61