

SPECIFICATIONS

# FIGURE 501B

## CARBON STEEL BALL VALVES



### 1-PC STANDARD PORT 150# FLANGED

#### FEATURES

- Standard port
- 150 WSP
- Flanged connection
- TFM 1600 + 20% GF seats
- Stainless steel trim
- Anti-static design
- Blowout-proof stem
- Investment cast body
- Adjustable packing
- Locking device
- Actuator mounting pad
- Manufactured silicone free
- Sizes 2"–6"



#### PRODUCT SPECIFICATIONS

##### Standards

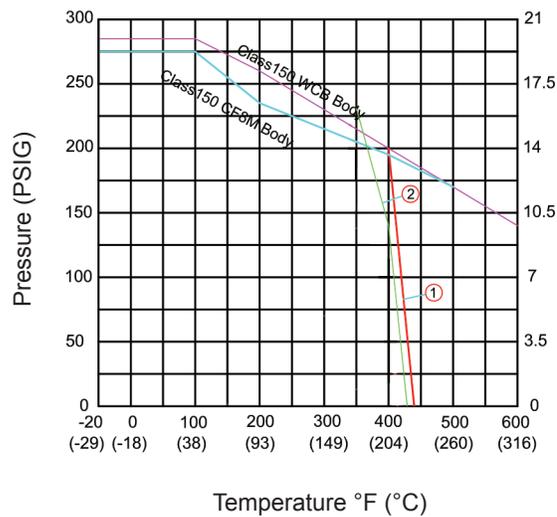
- Design: ASME B16.34
- Pressure test: API 598
- Flange dimensions: ASME B16.5
- Materials: ASME B16.34
- Mounting pad: ISO 5211
- NACE MR0103 and MR0175 compliant

#### FIGURE NUMBER MATRIX

FNW 501B	
SIZE CODE (IN.)	
2 = K	4 = P
2-1/2 = L	6 = U
3 = M	

#### REPAIR KITS

FNW 500BRKTFM	
SIZE CODE (IN.)	
2 = K	4 = P
2-1/2 = L	6 = U
3 = M	



- ① • NPS 2" to NPS 2-1/2"  
• 200 psig at 400°F
- ② • NPS 3" to NPS 6"  
• 140 psig at 400°F

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**FIGURE 501B**

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CV & WEIGHTS

Size (in.)	CV	Wt (lbs)
2	270	14.63
2-1/2	470	23.14
3	690	31.9
4	1150	49.5
6	2100	99.2

TORQUE (IN-LBS)

Size / ΔP (in.)	75 psig	150 psig	300 psig
	5 Bar	10 Bar	20 Bar
2	221	221	248
2-1/2	319	319	354
3	513	513	540
4	761	779	876
6	1381	1416	1522

Note: 30% safety factor is recommended when sizing actuator.

REFERENCE CHART

Size (in.)	Dimensions (in.)													
	D	d1	L	R	D	C	f	T	N	h	H1	W	P	K
2	1.97	1.50	7.00	3.62	6.00	4.75	0.06	0.56	4	3/4	4.49	7.95	0.378	5/8-18UNF
2-1/2	2.44	1.97	7.50	4.12	7.00	5.50	0.06	0.62	4	3/4	5.22	9.92	0.630	7/8-14UNF
3	2.99	2.38	8.00	5.00	7.50	6.00	0.06	0.69	4	3/4	6.20	11.9	0.630	7/8-14UNF
4	3.86	2.99	9.00	6.19	9.00	7.50	0.06	0.88	8	3/4	7.52	15.9	0.709	1-1/8-12UNF
6	5.75	3.94	10.5	8.50	11.0	9.50	0.06	0.94	8	7/8	9.25	23.75	1.063	1-3/8-12UNF

Size (in.)	Dimensions (in.)				Wt (lbs)
	A	U	E	ISO 52111	
2	1.26	M8	2.76	F07	14.63
2-1/2	1.67	M10	4.02	F10	23.14
3	1.67	M10	4.02	F10	31.9
4	2.17	M10	4.02	F10	49.5
6	2.20	M12	4.92	F12	99.2

PARTS BREAKDOWN

**FIGURE 501B**

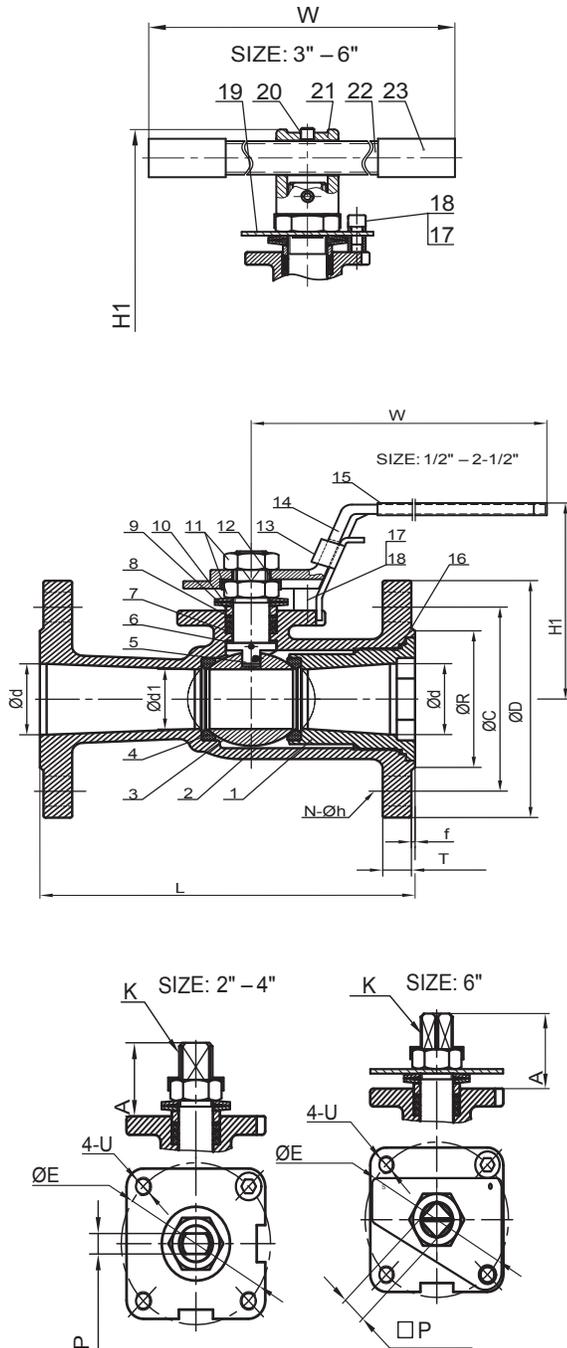
CARBON STEEL BALL VALVES



1-PC STANDARD PORT 150# FLANGED

PARTS DIAGRAM

PART MATERIALS



Ref #	Description (in.)	Material
1	End Cap	WCB
2	Body	WCB
3	Ball	CF8M
4	Ball Seat	TFM1600+20% GF
5	Stem (Anti-Static Device)	316
6	Thrust Washer	TFM4215
7	Packing	TFM1600
8	Bushing	50% SS +50% PTFE
9	Gland	316
10	Belleville Washer	301
11	Stem Nut	A194-8
12	Stop-Lock-Cap	304
13	Lock Device (1/2–2-1/2)	304
14	Handle (1/2–2-1/2)	CF8
15	Handle Sleeve (1/2–2-1/2)	Vinyl Plastic
16	Body Gasket	PTFE
17	Stop Bolt	A2-70
18	Stop Washer	304
19	Triangle Stopper (3–6)	304
20	Set Screw (3–6)	A2-70
21	Handle Adapter (3–6)	CF8
22	Pipe Handle (3–6)	A53+Zn Plated
23	Handle Sleeve (3–6)	Vinyl Plastic