

**Fig # 150-16**

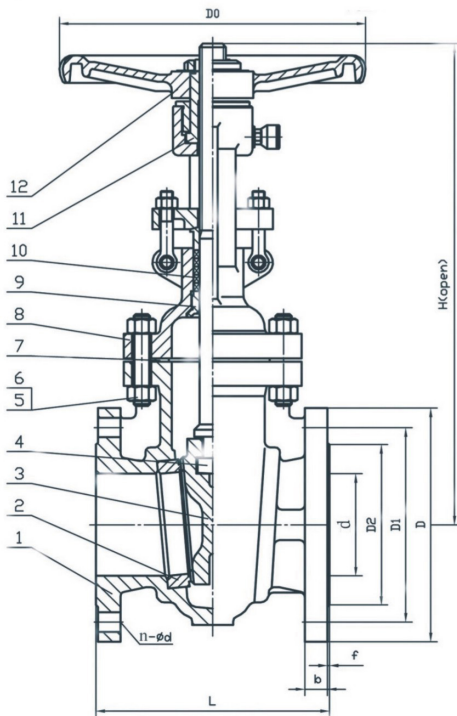
**Applicable Standards:**

Steel Gate Valves, API 600/API 6D  
 Steel Gate Valves, ISO 10434/ISO 14313  
 Steel Valves, ASME B16.34  
 Face to Face, ASME B16.10  
 End Flange ASME B16.5  
 Inspection and Test, API 598/API 6D

**Design:**

OS & Y, Outside Screw and Yoke  
 BB, Bolted Bonnet  
 Flexible Wedge  
 Forged T-head Stem  
 Rising Stem and Non-rising Handwheel

NO	PART NAME	MATERIAL
01	Body	ASTM A216-WCB
02	Seat	ASTM A105+STL
03	Solid Wedge Disc	ASTM A216-WCB+STL
04	Stem	17-4 PH
05	Bonnet Bolt	ASTM A193 Gr.B7
06	Bonnet Bolt Nut	ASTM A194 Gr.2H
07	Gasket	Graphite+304
08	Bonnet	ASTM A216-WCB
09	Packing	Customer Specified
10	Back Seat	Integral Metal Deposited STL
11	Stem Nut	Copper Alloy
12	Handwheel	ASTM A47-32510



NPS	Typical Dimensions ( in )				Class 150LB Flange Dimensions (in)							WT Lbs
	d	L	H	DO	D	D1	D2	b	f	n	φd	
2	2	7	15.75	7.87	6	4.75	3.62	0.62	0.06	4	0.74	42
2-1/2	2-1/2	7.64	17.12	7.87	7	5.5	4.17	0.7	0.06	4	0.74	55
3	3	8	20.75	9.84	7.5	6	5	0.74	0.06	4	0.74	72
4	4	9	21.55	11.02	9.01	7.5	6.18	0.94	0.06	8	0.74	110
6	6	10.5	24.01	11.81	10.98	9.5	8.5	1	0.06	8	0.86	170
8	8	11.5	37.4	13.77	13.5	11.75	10.62	1.14	0.06	8	0.86	270
10	10	13	45.27	15.74	16	14.25	12.75	1.22	0.06	12	0.98	413
12	12	14	54.33	17.71	19	17	15	1.25	0.06	12	0.98	633
14	14	15	60.82	19.68	21	18.75	16.25	1.37	0.06	12	0.98	847
16	16	16	68.22	19.68	23.5	21.25	18.5	1.45	0.06	16	1.14	1100
18	18	17	75.39	19.68	25	22.75	21	1.57	0.06	16	1.25	1320
20	20	18	83.54	23.62	27.5	25	22.75	1.69	0.06	20	1.25	1680
24	24	20	98.77	23.62	32	29.5	27.24	1.88	0.06	20	1.37	2200