

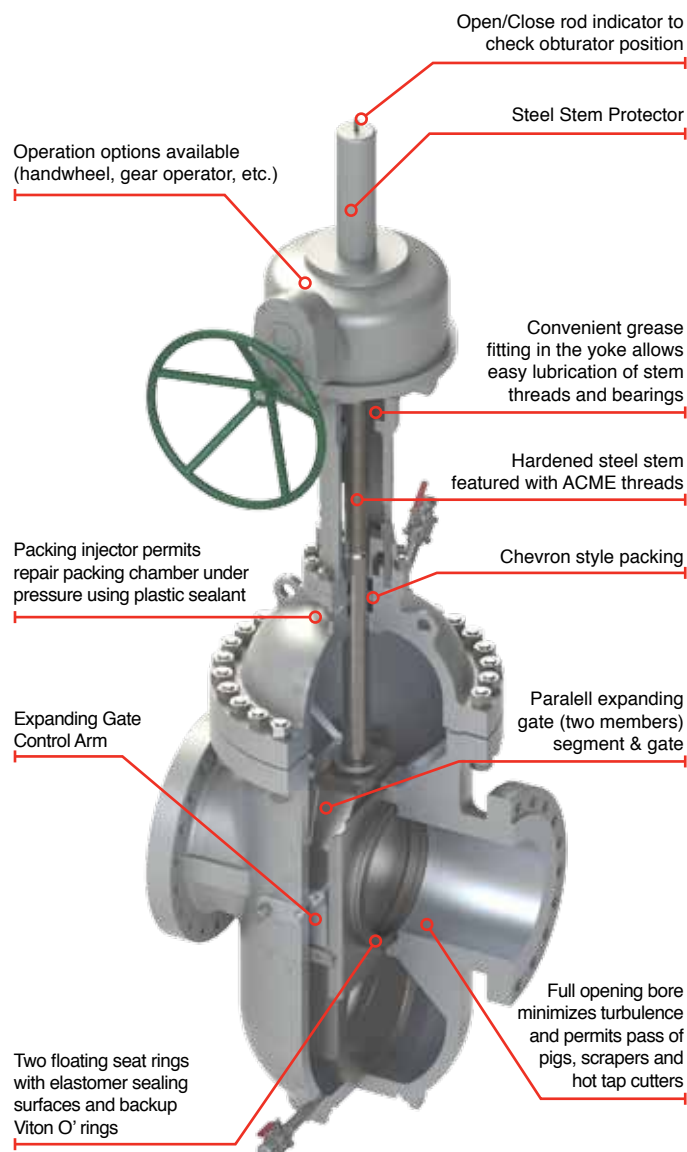
EXPANDING GATE VALVE CLASS 1500

WALWORTH offers this product line in the following base materials.

- a) Carbon steel as per ASTM A216 grades WCB, WCC.
- b) Carbon steel for NACE applications as per ASTM A216 grade WCB with 0.25% maximum and 22 HRc maximum hardness. CE= 0.43% maximum.

DESIGN FEATURES

- c) Design in accordance with API-6D.
- d) Double block & bleed (DDB). In closed position, the valve is capable to block both seat ports; the fluid can be released through the drain plug located in the middle of the seal sealing surfaces as per MMS-SP-61 specification.
- e) With double isolation & vent system (DIB) the valve block both ports. Then internal pressure can be released using the pressure relief valve located on the bonnet.
- f) Designed for positive sealing with Expanding Gate.
- g) Expanding gate design minimizes friction between closure members (gate and segment) against seats.
- h) Full through conduit port and full opening to permit pass of scrappers, pigs and wipers.
- i) Secondary reinforced viton O'rings to provide corrosion-resistance seal.
- j) Top entry, studed bonnet and replaceable seats for easy maintenance even in line.
- k) This valve complies with API-6D technical requirements for double isolation and bleed.
- l) 100% interchangeability of parts.
- m) Non lubricated.
- n) Bi-direccional seats offer double piston effect.
- o) Multi-position installation.
- p) Rising stem.
- q) Handwheel, chainwheel, gear operation, electric, pneumatic or hydraulic actuation is available as per Customer requirements.
- r) Hard faced options are available for severe service with Tungsten carbide, Chromium carbide applied by HVOF. Stellite coating also available upon request.
- s) Test in accordance with API-6D.
- t) Availability on raised face, butt weld or ring type joint ends.
- u) Valves from 8" nominal diameter and over are supplied with lifting lugs.



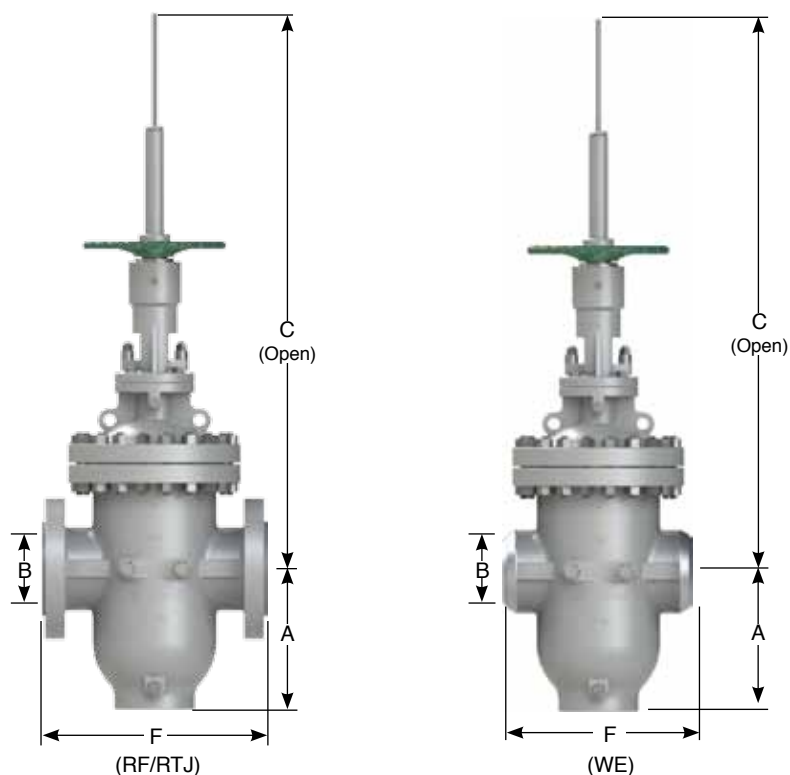
EXPANDING GATE VALVE ASME PRESSURE CLASS 1500

(HANDWHEEL OPERATED)

DESIGN FEATURES

- Design in accordance with API-6D.
- Rising stem.
- Flanged dimensions as per ASME B16.5.
- For valves 26" and larger, flange dimensions as per ASME B16.47 Series A.
- End to end dimensions as per API-6D table 2 figure 1 (Valves not listed in this table as per ASME B16.10).
- WE dimensions as per ASME B31.4 and/or ASME B31.8 and tapered as per ASME B16.25 figure 1.
- Full opening through conduit.
- Sizes from 2" to 3" handwheel operated as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
5DE12	Handwheel	RF
5DE13	Handwheel	RTJ
5DE14	Handwheel	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER	mm	50	80
	in	2	3
A	mm	200	225
	in	7.88	8.86
B	mm	49	74
	in	1.93	2.91
C (Open)	mm	656	748
	in	25.83	29.45
F (RF)	mm	368	470
	in	14.49	18.51
F (RTJ)	mm	371	473
	in	14.61	18.63
F (WE)	mm	368	470
	in	14.49	18.51
WEIGHT	kg	165	355
	lb	363	782

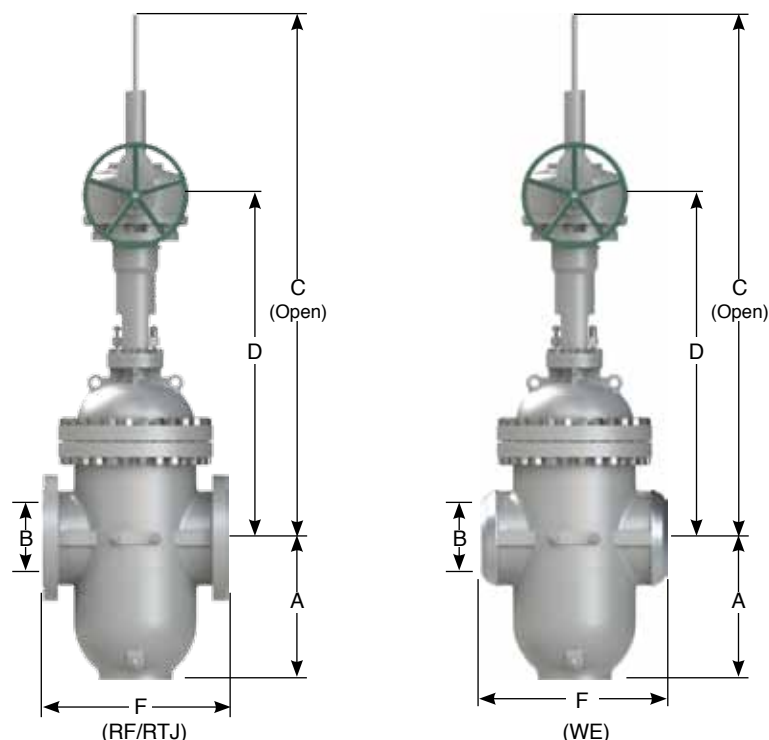
Flanged Dimensions as per ASME/ANSI B16.34, B16.5 & B16.47

EXPANDING GATE VALVE ASME PRESSURE CLASS 1500 (GEAR OPERATED)

DESIGN FEATURES

- Design in accordance with API-6D.
- Rising stem.
- Flanged dimensions as per ASME B16.5.
- For valves 26" and larger, flange dimensions as per ASME B16.47 Series A.
- End to end dimensions as per API-6D table 2 figure 1 (Valves not listed in this table as per ASME B16.10).
- WE dimensions as per ASME B31.4 and/or ASME B31.8 and tapered as per ASME B16.25 figure 1.
- Full opening through conduit.
- Sizes from 4" to 24" gear operator as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
5DE22	Gear Operated	RF
5DE23	Gear Operated	RTJ
5DE24	Gear Operated	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER	mm	100	150	200	250	300	350	400	450	500	600
	in	4	6	8	10	12	14	16	18	20	24
A	mm	251	355	445	540	640	704	788	882	981	1180
	in	9.88	13.98	17.53	21.27	25.21	27.73	31.04	34.75	38.65	46.49
B	mm	100	144	192	239	287	315	360	406	454	546
	in	3.94	5.67	7.56	9.41	11.3	12.41	14.18	15.99	17.88	21.51
C (Open)	mm	960	1273	1524	1879	2129	2251	2572	2836	3046	3511
	in	37.8	50.12	60	73.98	83.82	88.62	101.26	111.65	119.92	138.23
D	mm	-	832	977	1223	1361	1416	1642	1803	1952	2183
	in	-	32.78	38.49	48.18	53.62	55.79	64.69	71.03	76.9	86.01
F (RF)	mm	546	705	832	991	1130	1257	1384	1537	1664	1943
	in	21.51	27.77	32.78	39.04	44.52	49.52	54.52	60.55	65.56	76.55
F (RTJ)	mm	549	711	841	1000	1146	1276	1407	1559	1686	1972
	in	21.63	28.01	33.13	39.4	45.15	50.27	55.43	61.42	66.42	77.69
F (WE)	mm	546	705	832	991	1130	1257	1384	1537	1664	1943
	in	21.51	27.77	32.78	39.04	44.52	49.52	54.52	60.55	65.56	76.55
WEIGHT	kg	520	1230	2060	3090	4500	6250	8050	10200	14400	23400
	lb	1146	2711	4541	6812	9920	13778	17747	22486	31746	51587

Flanged Dimensions as per ASME/ANSI B16.34, B16.5 & B16.47