

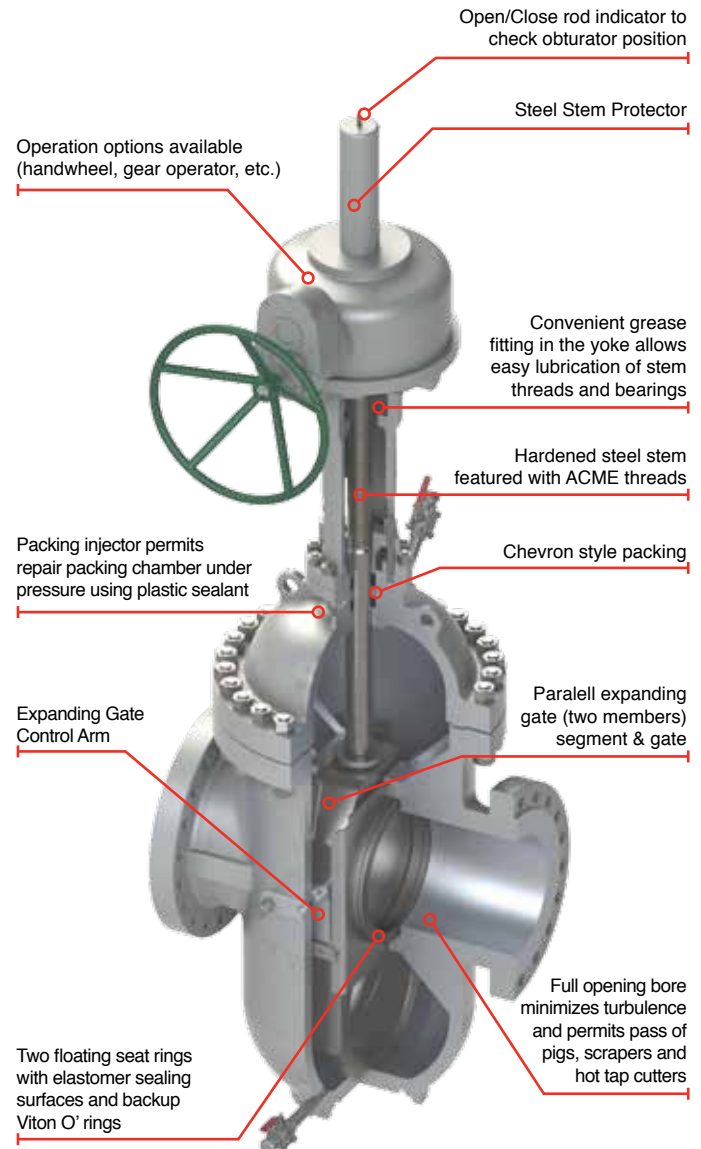
EXPANDING GATE VALVE CLASS 300

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.

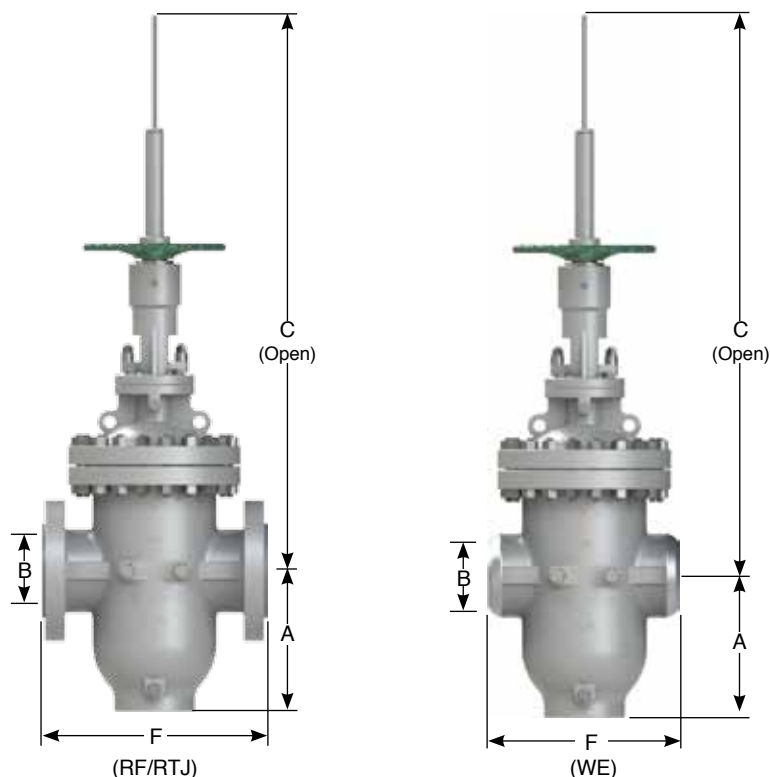


EXPANDING GATE VALVE ASME PRESSURE CLASS 300 (HANDWHEEL OPERATED)

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 8" handwheel operated as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
3DE12	Handwheel	RF
3DE13	Handwheel	RTJ
3DE14	Handwheel	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER	mm	50	80	100	150	200
	in	2	3	4	6	8
A	mm	152	195	237	340	435
	in	5.98	7.68	9.33	13.39	17.13
B	mm	49	74	100	150	201
	in	1.93	2.91	3.94	5.91	7.91
C (Open)	mm	662	782	895	1239	1395
	in	26.06	30.79	35.24	48.78	54.92
F (RF)	mm	216	283	305	403	419
	in	8.51	11.15	12.01	15.87	16.5
F (RTJ)	mm	232	298	321	419	435
	in	9.14	11.74	12.64	16.5	17.13
F (WE)	mm	216	283	305	403	419
	in	8.51	11.15	12.01	15.87	16.5
WEIGHT	kg	73	115	155	330	500
	lb	161	253	341	727	1102

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

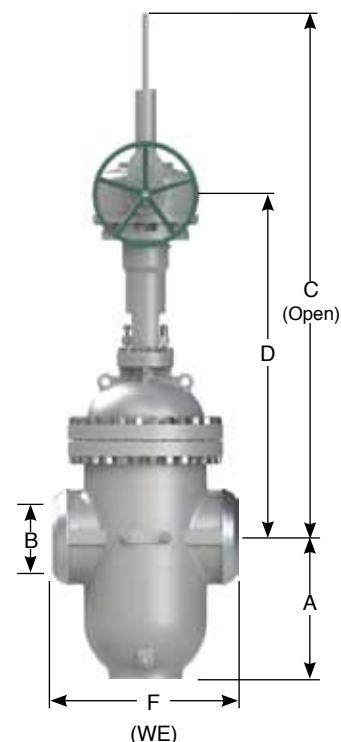
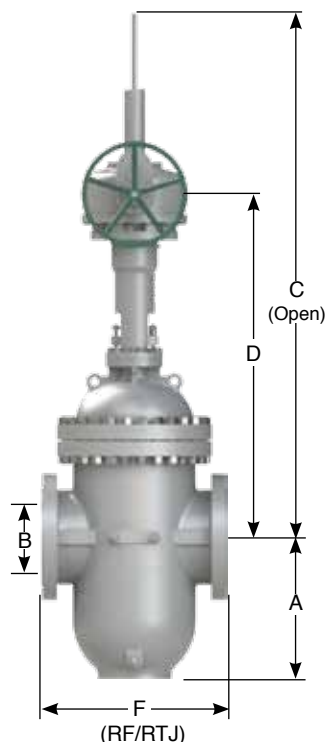
EXPANDING GATE VALVE ASME PRESSURE CLASS 300

(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 10" to 48" gear operator as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
3DE22	Gear Operated	RF
3DE23	Gear Operated	RTJ
3DE24	Gear Operated	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER	mm	250	300	350	400	450	500	600	650	700
	in	10	12	14	16	18	20	24	26	28
A	mm	525	610	667	756	808	950	1130	1205	1255
	in	20.68	24.03	26.27	29.78	31.83	37.43	44.52	47.47	49.44
B	mm	252	303	334	385	436	487	589	633	684
	in	9.92	11.93	13.15	15.16	17.17	19.18	23.2	24.94	26.94
C (Open)	mm	1730	2001	2272	2464	2660	3082	3530	3803	3988
	in	68.11	78.78	89.45	97.01	104.72	121.34	138.98	149.72	157.01
D	mm	1067	1220	1422	1531	1646	1916	2145	2296	2355
	in	42.03	48.06	56.02	60.32	64.85	75.49	84.51	90.46	92.78
F (RF)	mm	457	502	762	838	914	991	1143	1245	1346
	in	18	19.77	30	33	36.01	39.04	45.03	49.05	53.03
F (RTJ)	mm	473	518	778	854	930	1010	1165	1270	1372
	in	18.63	20.4	30.625	33.62	36.64	39.79	45.9	50.03	54.05
F (WE)	mm	457	502	762	838	914	991	1143	1245	1346
	in	18	19.77	30	33	36.01	39.04	45.03	49.05	53.03
WEIGHT	kg	680	1030	2300	3190	2770	3560	5780	6560	7500
	lb	1499	2270	5070	7032	6106	7848	12742	14462	16534

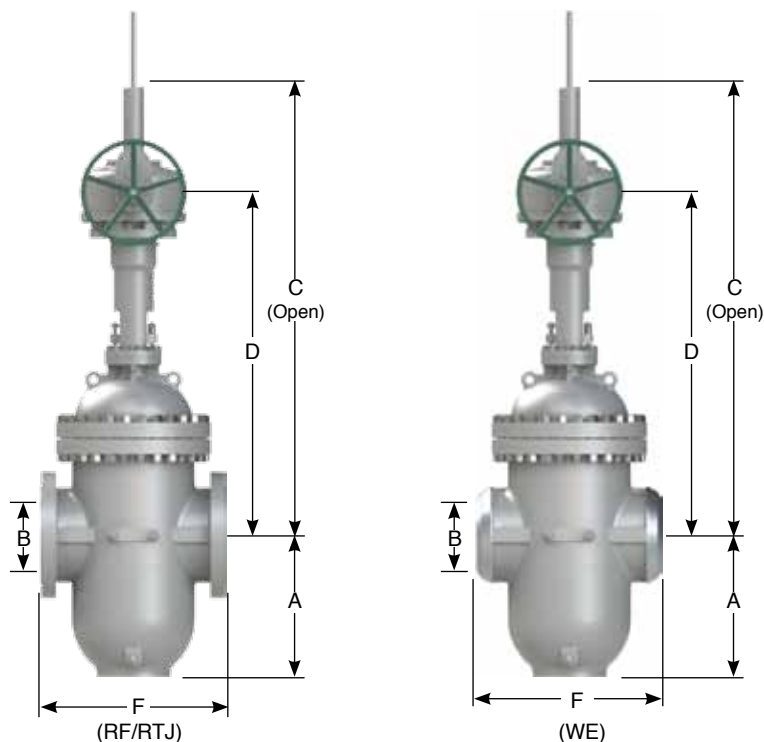
Flanged Dimensions as per ASME/ANSI B16.34, B16.5 & B16.47

EXPANDING GATE VALVE ASME PRESSURE CLASS 300 (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 10" to 48" gear operator as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
3DE22	Gear Operated	RF
3DE23	Gear Operated	RTJ
3DE24	Gear Operated	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER	mm	750	800	850	900	950	1000	1050	1200
	in	30	32	34	36	38	40	42	48
A	mm	1330	1400	1480	1540	1720	1795	1970	2120
	in	52.4	55.16	58.31	60.67	67.768	70.72	77.61	83.52
B	mm	735	779	830	874	925	976	1020	1166
	in	28.95	30.69	32.7	34.43	36.44	38.45	40.18	45.94
C (Open)	mm	4276	4521	4798	5070	5252	5614	5926	6478
	in	168.35	177.99	188.9	199.61	206.77	221.02	233.31	255.04
D	mm	2532	2706	2872	3044	3129	3393	3577	3828
	in	99.76	106.61	113.15	119.93	123.28	133.68	140.93	150.82
F (RF)	mm	1397	1524	1626	1727	1829	1946	2032	2337
	in	55.04	60.04	64.06	68.04	72.06	76.67	80.06	92.07
F (RTJ)	mm	1422	1553	1654	1756	-	-	-	-
	in	56.02	61.18	65.16	69.18	-	-	-	-
F (WE)	mm	1397	1524	1626	1727	1829	1946	2032	2337
	in	55.04	60.04	64.06	68.04	72.06	76.67	80.06	92.07
WEIGHT	kg	8600	9500	10800	12100	13600	17400	20350	30260
	lb	18959	20943	23809	26675	29982	38360	44863	66711

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