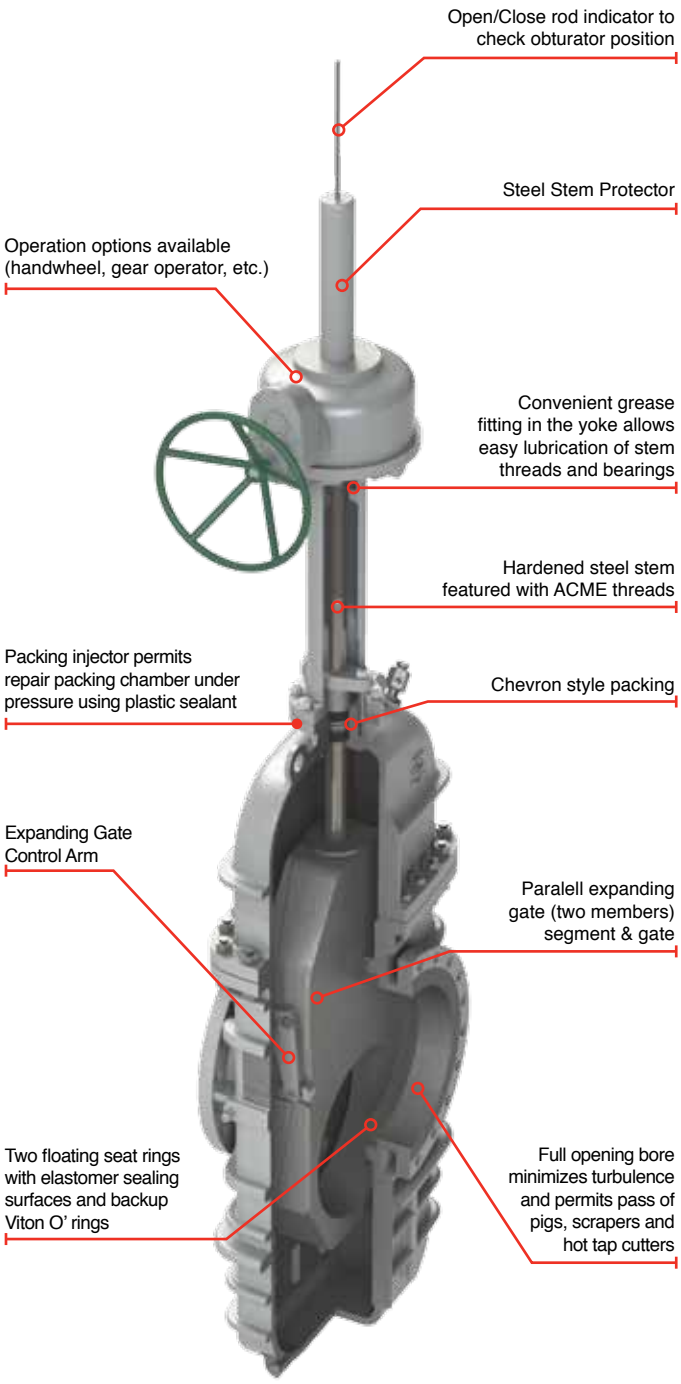
EXPANDING GATE VALVE CLASS 150

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 openning to permit pass of scrappers, pigs and wipers.
i) Secondary reinforced viton O'rings to provide corrosion-resistance seal.
j) Top entry, studded 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% interchangeabiliity 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.

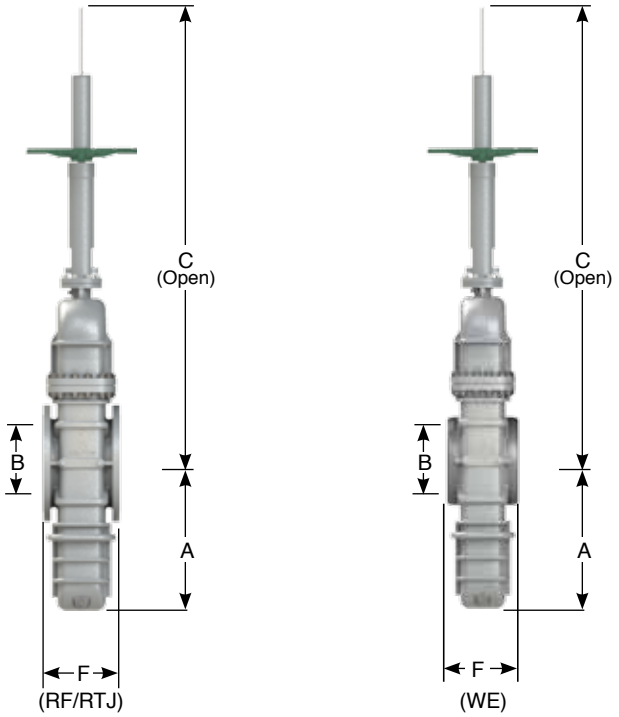


EXPANDING GATE VALVE ASME PRESSURE CLASS 150
(HANDWHEEL OPERATED)

DESIGN FEATURES

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

FIGURE No.	OPERATION	TYPE OF ENDS
1DE12	Handwheel	RF
1DE13	Handwheel	RTJ
1DE14	Handwheel	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER		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	26.08	30.81	35.26	48.81	54.96
F (RF)	mm	178	203	229	267	292
	in	7.013	7.99	9.02	10.51	11.5
F (RTJ)	mm	191	216	241	279	305
	in	7.52	8.51	9.49	10.99	12.01
F (WE)	mm	216	283	305	403	419
	in	8.51	11.15	12.01	15.87	16.5
WEIGHT	kg	46	76	114	193	320
	lb	101	167	251	425	705

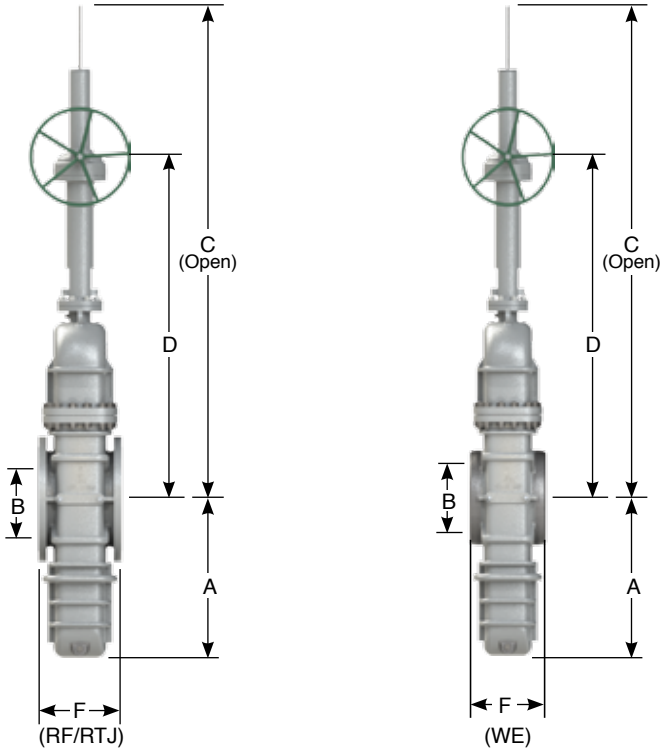
Flanged Dimensions as per ASME/ANSI B16.34, B16.5 & B16.47

EXPANDING GATE VALVE ASME PRESSURE CLASS 150
(GEAR OPERATED)

DESIGN FEATURES

a) Design in accordance with API-6D.
b) Rising stem.
c) Flanged dimensions as per ASME B16.5.
d) For valves 26" and larger, flange dimensions as per ASME B16.47 Series A.
e) End to end dimensions as per API-6D table 2 figure 1 (Valves not listed in this table as per ASME B16.10).
f) WE dimensions as per ASME B31.4 and/or ASME B31.8 and tapered as per ASME B16.25 figure 1.
g) Full opening through conduit.
h) Sizes from 10" to 48" Gear operator as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
1DE22	Gear Operated	RF
1DE23	Gear Operated	RTJ
1DE24	Gear Operated	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER		250	300	350	400	450	500	600	650	700
	in	10	12	14	16	18	20	24	26	28
A	mm	525	610	635	722	808	950	1130	1205	1255
	in	20.68	24.03	25.01	28.44	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	2240	2430	2660	3082	3530	3803	3988
	in	68.16	78.83	88.25	95.74	104.8	121.43	139.08	149.83	157.12
D	mm	1067	1220	1392	1500	1646	1916	2145	2296	2355
	in	42.03	48.06	54.84	59.1	64.85	75.49	84.51	90.46	92.78
F (RF)	mm	330	356	381	406	432	457	508	559	610
	in	13	14.02	15.01	15.99	17.02	18	20.01	22.02	24.03
F (RTJ)	mm	343	368	394	419	445	470	521	-	-
	in	13.51	14.49	15.52	16.5	17.53	18.51	20.52	-	-
F (WE)	mm	457	502	572	610	660	711	813	864	914
	in	18	19.77	22.53	24.03	26	28.01	32.03	34.04	36.01
WEIGHT	kg	480	615	815	1000	1210	1520	2730	3150	3600
	lb	1058	1355	1796	2204	2667	3350	6018	6944	7936

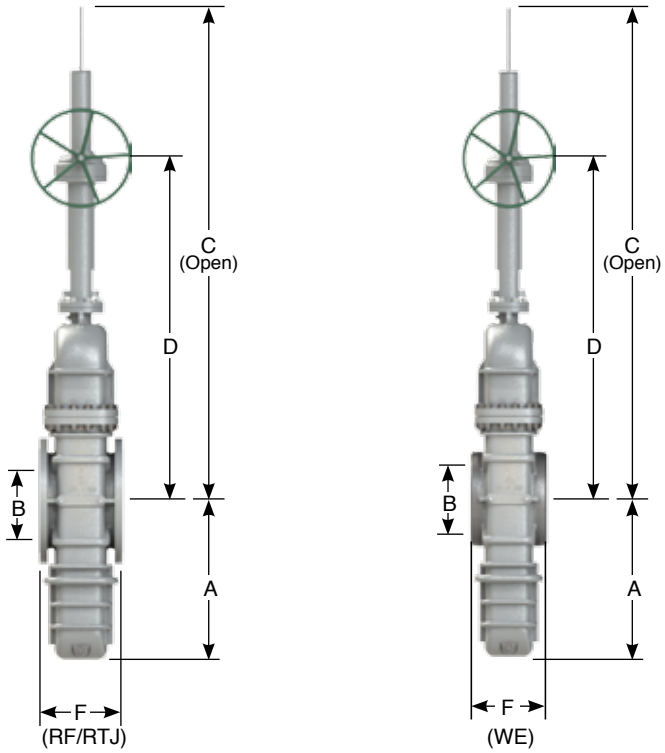
Flanged Dimensions as per ASME/ANSI B16.34, B16.5 & B16.47

EXPANDING GATE VALVE ASME PRESSURE CLASS 150
(GEAR OPERATED)

DESIGN FEATURES

a) Design in accordance with API-6D.
b) Rising stem.
c) Flanged dimensions as per ASME B16.5.
d) For valves 26" and larger, flange dimensions as per ASME B16.47 Series A.
e) End to end dimensions as per API-6D table 2 figure 1 (Valves not listed in this table as per ASME B16.10).
f) WE dimensions as per ASME B31.4 and/or ASME B31.8 and tapered as per ASME B16.25 figure 1.
g) Full opening through conduit.
h) Sizes from 10" to 48" Gear operator as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
1DE22	Gear Operated	RF
1DE23	Gear Operated	RTJ
1DE24	Gear Operated	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER		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	67.76	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	168.47	178.12	189.04	199.75	206.92	221.19	233.48	255.23
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	660	711	762	813	864	914	965	1118
	in	26	28.01	30.02	32.03	34.04	36.01	38.02	44.04
F (RTJ)	mm	-	-	-	-	-	-	-	-
	in	-	-	-	-	-	-	-	-
F (WE)	mm	914	965	1016	1016	1067	1118	1168	1321
	in	36.01	38.02	40.03	40.03	42.03	44.04	46.01	52.04
WEIGHT	kg	3800	4860	5820	7300	8400	9260	10150	14220
	lb	8377	10714	12830	16093	18518	20414	22376	31349

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