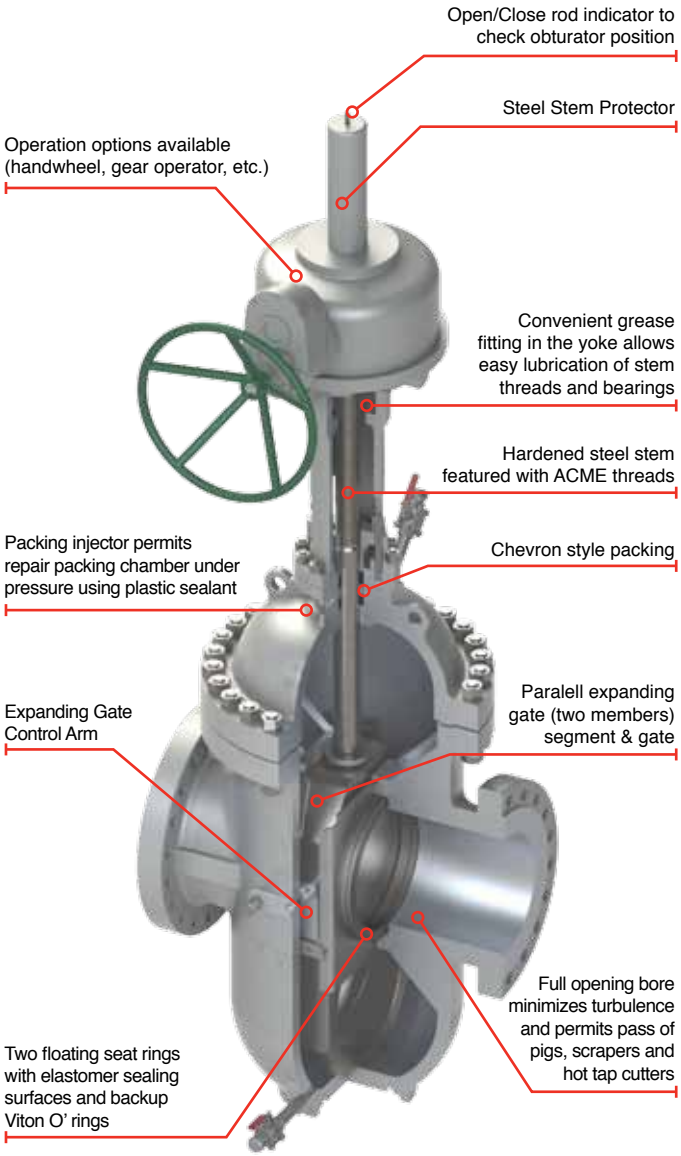
EXPANDING GATE VALVE CLASS 600

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.

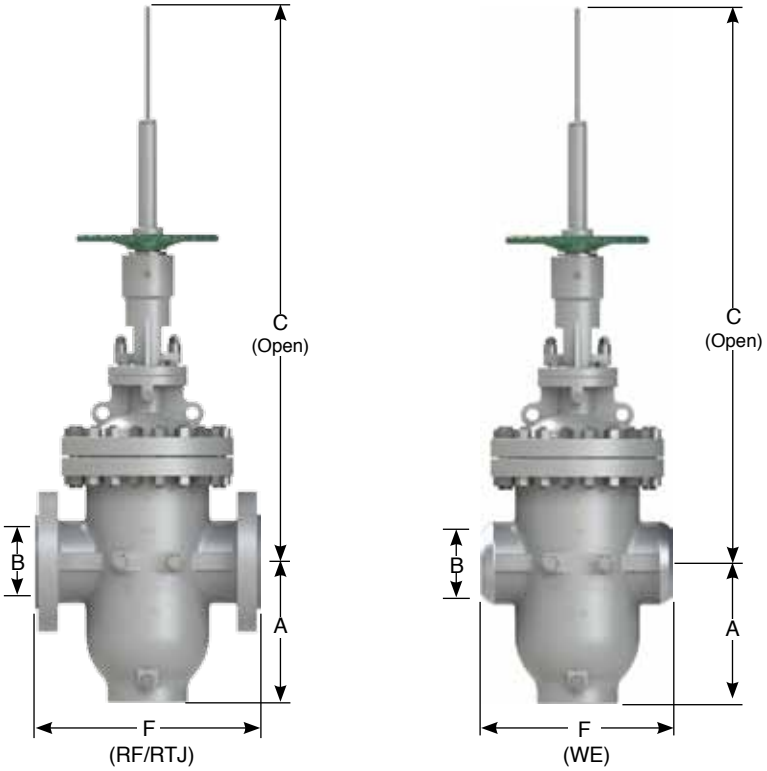


EXPANDING GATE VALVE ASME PRESSURE CLASS 600
(HANDWHEEL OPERATED)

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 6" handwheel operated as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
6DE12	Handwheel	RF
6DE13	Handwheel	RTJ
6DE14	Handwheel	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER		50	80	100	150
	in	2	3	4	6
A	mm	173	215	260	362
	in	6.8162	8.471	10.244	14.2628
B	mm	49	74	100	150
	in	1.9306	2.9156	3.94	5.91
C (Open)	mm	685	782	909	1261
	in	26.97	30.79	35.79	49.65
F (RF)	mm	292	356	432	559
	in	11.5048	14.0264	17.0208	22.0246
F (RTJ)	mm	295	359	435	562
	in	11.623	14.1446	17.139	22.1428
F (WE)	mm	292	356	432	559
	in	11.5048	14.0264	17.0208	22.0246
WEIGHT	kg	90	150	215	405
	lb	198.414	330.69	473.989	892.863

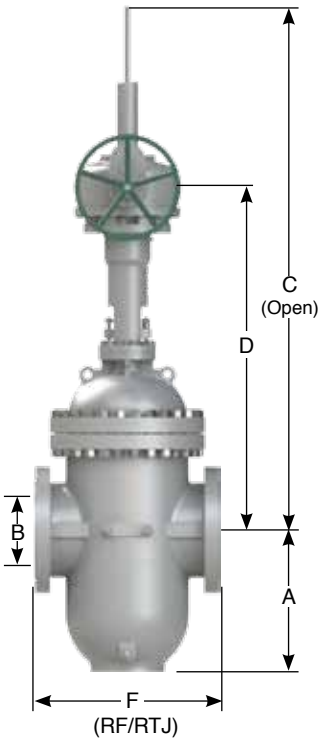
Flanged Dimensions as per ASME/ANSI B16.34, B16.5 & B16.47

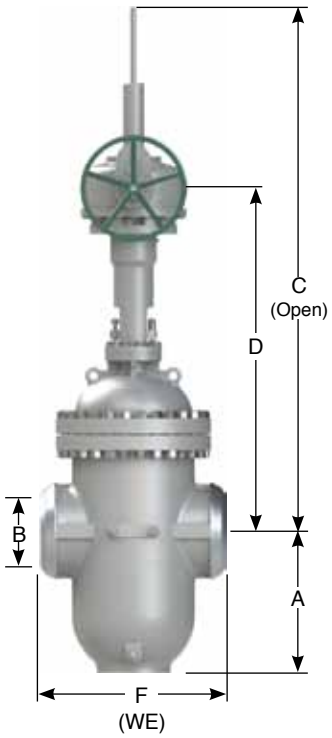
EXPANDING GATE VALVE ASME PRESSURE CLASS 600
(GEAR OPERATED)

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 8" to 48" gear operator as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
6DE22	Gear Operated	RF
6DE23	Gear Operated	RTJ
6DE24	Gear Operated	WE





DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER		200	250	300	350	400	450	500	600	650
	mm	8	10	12	14	16	18	20	24	26
A	mm	459	525	610	635	756	808	950	1170	1247
	in	18.08	20.68	24.03	25.01	29.78	31.83	37.43	46.09	49.13
B	mm	201	252	303	334	385	436	487	589	633
	in	7.92	9.92	11.93	13.15	15.16	17.17	19.18	23.2	24.94
C (Open)	mm	1469	1730	2001	2240	2464	2660	3082	3570	3845
	in	57.83	68.11	78.78	88.19	97.01	104.72	121.34	140.55	151.38
D	mm	927	1067	1220	1392	1531	1646	1916	2179	2331
	in	36.52	42.03	48.06	54.84	60.32	64.85	75.49	85.85	91.84
F (RF)	mm	660	787	838	889	991	1092	1194	1397	1448
	in	26	18	33	30.02	39.04	36.01	39.04	55.04	57.05
F (RTJ)	mm	664	791	841	892	994	1095	1200	1407	1461
	in	26.16	18.63	33.12	30.65	39.16	36.64	39.79	55.43	57.56
F (WE)	mm	660	787	838	889	991	1092	1194	1397	1448
	in	26	18	33	30.02	39.04	36.01	39.04	55.04	57.05
WEIGHT	kg	870	680	1030	1430	3190	2770	3560	7500	9770
	lb	1918	1499	2270	3152	7032	6106	7848	16534	21538

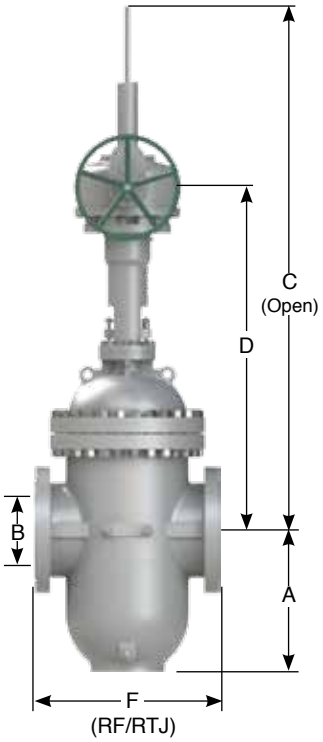
Flanged Dimensions as per ASME/ANSI B16.34, B16.5 & B16.47

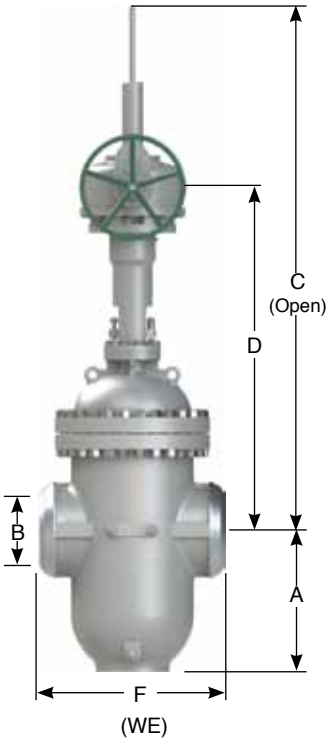
EXPANDING GATE VALVE ASME PRESSURE CLASS 600
(GEAR OPERATED)

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 8" to 48" gear operator as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
6DE22	Gear Operated	RF
6DE23	Gear Operated	RTJ
6DE24	Gear Operated	WE





DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER		700	750	800	850	900	950	1000	1050	1200
	mm	28	30	32	34	36	38	40	42	48
A	mm	1299	1376	1448	1530	1592	1774	1851	2028	2180
	in	51.18	54.21	57.05	60.28	62.72	69.89	72.92	79.9	85.89
B	mm	684	735	779	830	874	925	976	1020	1166
	in	26.94	28.95	30.69	32.7	34.43	36.44	38.45	40.18	45.94
C (Open)	mm	4032	4322	4569	4848	5122	5306	5670	5984	6538
	in	158.74	170.16	179.88	190.87	201.65	208.9	223.23	235.59	257.4
D	mm	2391	2569	2744	2911	3084	3170	3435	3620	3872
	in	94.2	101.21	108.11	114.69	121.5	124.89	135.33	142.62	152.55
F (RF)	mm	1549	1651	1778	1930	2083	2184	2286	2438	2794
	in	61.03	65.04	70.05	76.04	82.07	86.04	90.06	96.05	110.08
F (RTJ)	mm	1562	1664	1794	1946	2099	-	-	-	-
	in	61.54	65.56	70.68	76.67	82.7	-	-	-	-
F (WE)	mm	1549	1651	1778	1930	2083	2184	2286	2438	2794
	in	61.03	65.04	70.05	76.04	82.07	86.04	90.06	96.05	110.08
WEIGHT	kg	11600	13600	15600	17800	20600	24150	25235	27950	38700
	lb	25573	29982	34391	39241	53241	53241	55633	61618	85318

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