

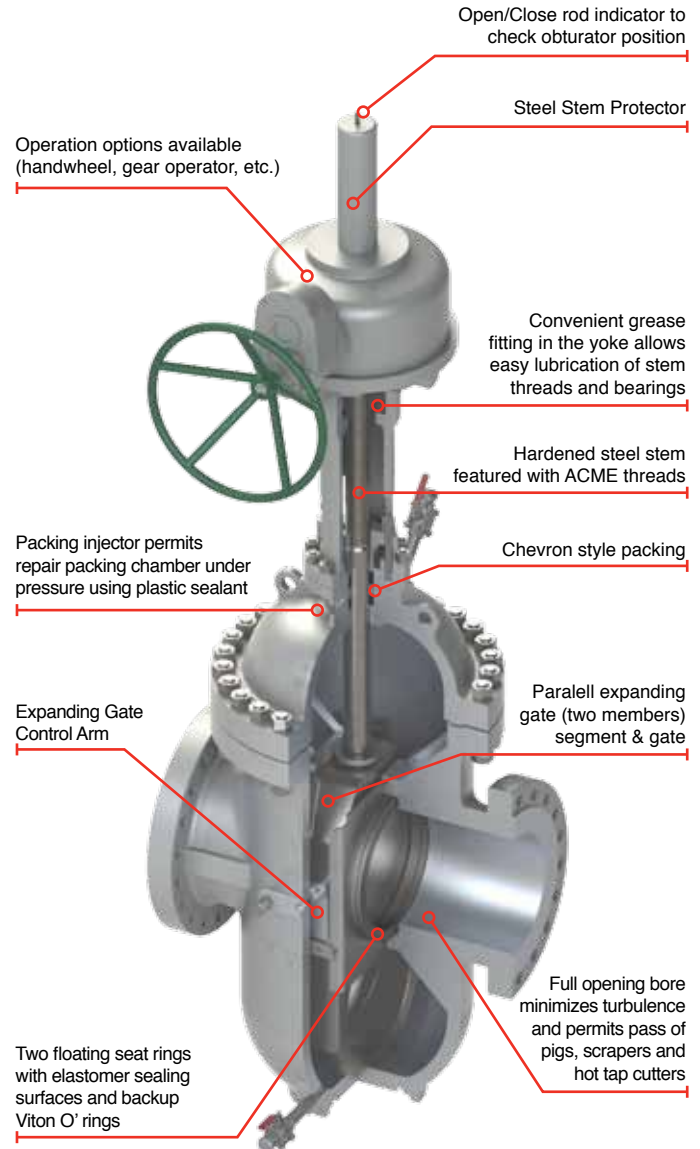
EXPANDING GATE VALVE CLASS 900

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, 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% 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.



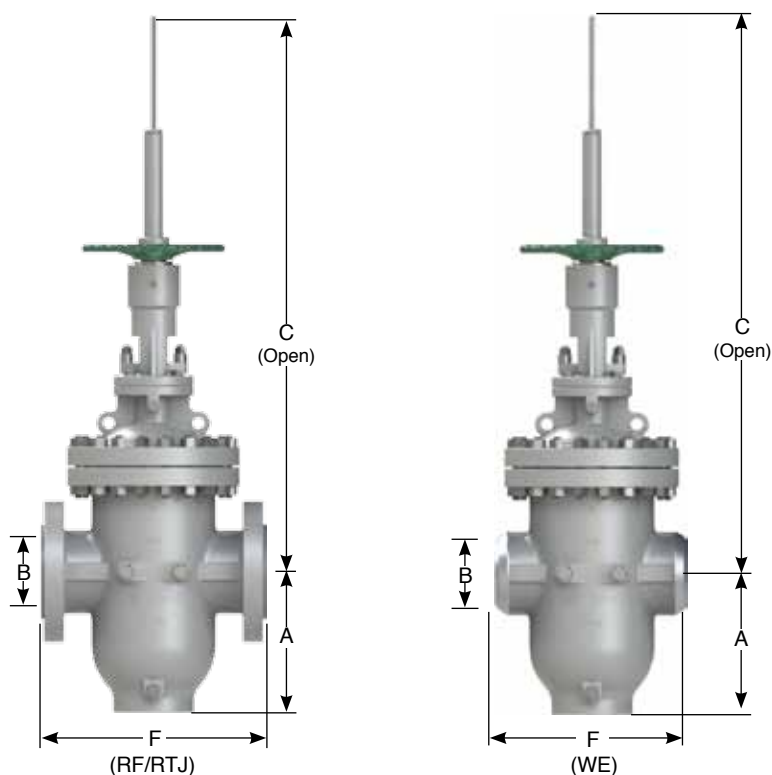
EXPANDING GATE VALVE ASME PRESSURE CLASS 900

(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 4" handwheel operated as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
9DE12	Handwheel	RF
9DE13	Handwheel	RTJ
9DE14	Handwheel	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER	mm	50	80	100
	in	2	3	4
A	mm	206	233	261
	in	8.11	9.18	10.28
B	mm	49	74	100
	in	1.93	2.91	3.94
C (Open)	mm	680	774	939
	in	26.77	30.47	36.97
F (RF)	mm	368	381	457
	in	14.49	15.01	18
F (RTJ)	mm	371	384	460
	in	14.61	15.12	18.12
F (WE)	mm	368	381	457
	in	14.49	15.01	18
WEIGHT	kg	105	220	390
	lb	231	485	859

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

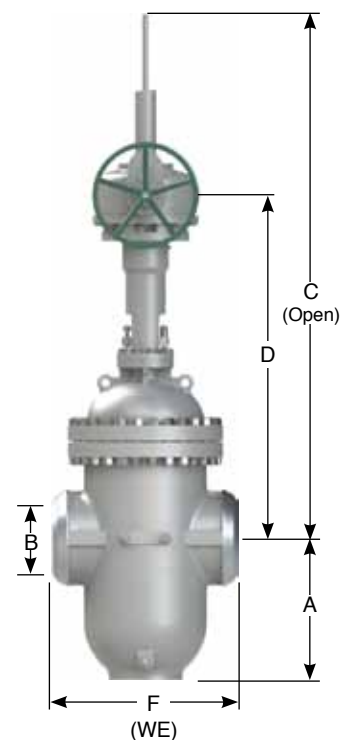
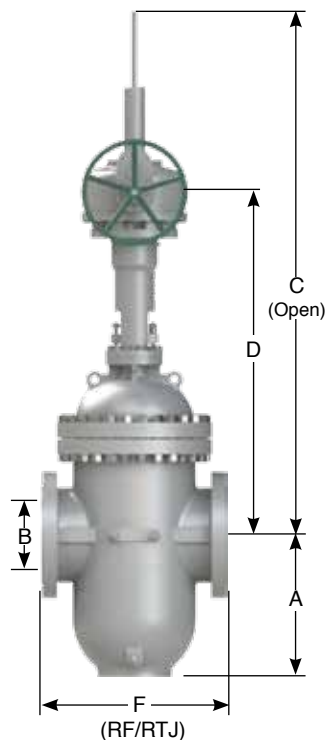
EXPANDING GATE VALVE ASME PRESSURE CLASS 900

(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 6" to 24" gear operator as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
9DE22	Gear Operated	RF
9DE23	Gear Operated	RTJ
9DE24	Gear Operated	WE



DIMENSIONS AND WEIGHTS

NOMINAL DIAMETER	mm	150	200	250	300	350	400	450	500	600
	in	6	8	10	12	14	16	18	20	24
A	mm	367	459	556	658	724	810	906	1007	1208
	in	14.45	18.08	21.9	25.92	28.52	31.91	35.69	39.67	47.59
B	mm	150	201	252	303	322	373	423	471	570
	in	5.91	7.91	9.92	11.93	12.68	14.69	16.66	18.55	22.45
C (Open)	mm	1310	1567	1927	2186	2307	2638	2911	3149	3606
	in	51.57	61.69	75.87	86.06	90.83	103.86	114.61	123.98	141.97
D	mm	844	985	1223	1368	1439	1658	1833	1960	2207
	in	33.25	38.8	48.18	53.89	56.69	65.32	72.22	77.22	86.95
F (RF)	mm	610	737	838	965	1029	1130	1219	1321	1549
	in	24.03	29.03	33.01	38.02	40.54	44.52	48.02	52.04	61.03
F (RTJ)	mm	613	740	841	968	1038	1140	1232	1334	1568
	in	24.15	29.15	33.13	38.13	40.89	44.91	48.54	52.55	61.77
F (WE)	mm	610	737	838	965	1029	1130	1219	1321	1549
	in	24.03	29.03	33.01	38.02	40.54	44.52	48.02	52.04	61.03
WEIGHT	kg	725	1320	1770	2720	3530	4360	5430	6950	12750
	lb	1598	2910	3902	5996	7782	9612	11970	15321	28108

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