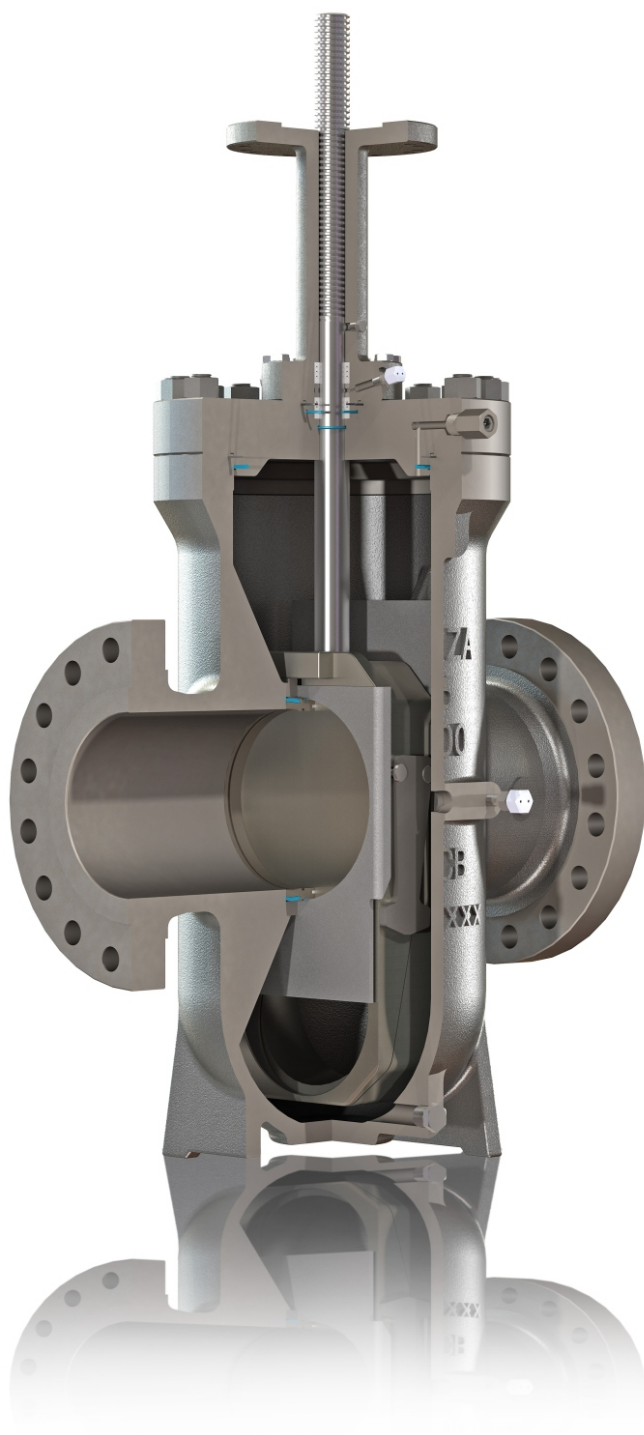


Series GTE

Part number: GT01001-1405

EXPANDING GATE VALVE



VIZA GTE through conduit expanding gate valve is designed acc. to API 6D for critical service, provides mechanically sealing gates to assure positive shut off.

Features:

- Through conduit Full bore
- Double isolation and bleed DIB-1 (both seats bi-directional)
- External pressure relief system for cavity over pressure protection
- Mechanically induced bubble tight seal
- Wear and tear reduction
- Lever lock mechanism (for size 6" and above)
- Protection of seat faces
- On-line repairable
- Ease of on-line stem packing maintenance
- Emergency sealant injection on seats

Sizes and pressure classes:

Sizes: 2" to 24"
class rating: 300, 600, 900, 1500, 2500

Operating temperature:

-29°C to 120°C (-20°F to 250°F)
-46°C available (-50°F)

Technical drawing of a mechanical assembly, likely a valve or pump component, showing a main cross-section and three detailed views (X, Y, Z).

Main Cross-Section:

- Part numbers: 1, 2, 3, 4, 5.1, 5.2, 5.3, 5.4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40.
- Section line A-A is indicated.
- Labels X, Y, and Z indicate the locations of the detailed views.
- Label "WELDING" is present near part 11.

Detail View X:

- Shows a cross-section of a component with part numbers 16 and 21.

Detail View Y:

- Shows a cross-section of a component with part numbers 15 and 19.

Detail View Z:

- Shows a cross-section of a component with part numbers 17 and 18.

Series GTE

Expanding Gate Valve

MATERIAL SPECIFICATIONS

NO.	PART	A105/ENP	A105/ENP/NC
1	Body	ASTM A216 WCC	ASTM A216 WCC
2	Bonnet	ASTM A105	ASTM A105
3	Seat Ring	ASTM A105/ENP(150~600lb) AISI4130/ENP(900lb & above)	ASTM A105/ENP(150~600lb) AISI4130/ENP(900lb & above)
4	Seat Insert	PTFE(150~600lb) NYLON(900lb & above)	PTFE(150~600lb) NYLON(900lb & above)
5	Assembly		
5.1	Gate	ASTM A105/ENP(150~600lb) AISI4130/ENP(900lb & above)	ASTM A105/ENP(150~600lb) AISI4130/ENP(900lb & above)
5.2	Segment	ASTM A105/ENP(150~600lb) AISI4130/ENP(900lb & above)	ASTM A105/ENP(150~600lb) AISI4130/ENP(900lb & above)
5.3	Lever Lock Arm	Stainless Steel	Stainless Steel
5.4	Lever Lock Pin	Stainless Steel	Stainless Steel
6	Gate Guide	Stainless Steel	Stainless Steel
7	Stem	ASTM A564 Type630+	ASTM A564 Type630+
8	Yoke Tube Assy.	Carbon Steel	Carbon Steel
9	Body Stud	ASTM A193-B7	ASTM A193-B7M
10	Body Nut	ASTM A194-2H	ASTM A194-2HM
11	Screw	Carbon Steel	Carbon Steel
12	Lantern Ring	Stainless Steel	Stainless Steel
13	* Packing Set	PTFE V PACKING	PTFE V PACKING
14	* Screw	Carbon Steel	Carbon Steel
15	* Body Gasket	Braided Graphite	Braided Graphite
16	* Gland Gasket	Braided Graphite	Braided Graphite
17	* O-Ring	Viton	Viton
18	* O-Ring	Viton	Viton
19	* O-Ring	Viton	Viton
20	O-Ring	Viton	Viton
21	O-Ring	Viton	Viton
22	O-Ring	Viton	Viton
23	Drain Plug	Stainless Steel	Stainless Steel
24	Check Valve	Stainless Steel	Stainless Steel
25	Seat Injection	Stainless Steel	Stainless Steel
26	Vent Valve	Stainless Steel	Stainless Steel
27	Stem Injection	Stainless Steel	Stainless Steel
28	Plug	Stainless Steel	Stainless Steel
29	Plug	Stainless Steel	Stainless Steel
30	Plug	Stainless Steel	Stainless Steel
31	Eye Bolt	Stainless Steel	Stainless Steel
32	Bearing House	Carbon Steel	Carbon Steel
33	Bearing	STEEL	STEEL
34	Grease Nipple	Carbon Steel	Carbon Steel
35	Stem Nut	ASTM A439 GR.D-2	ASTM A439 GR.D-2
36	Hand Wheel	DUCTILE IRON	DUCTILE IRON
37	Stem Protector	Carbon Steel	Carbon Steel
38	Indicator Assembly	STEEL	STEEL
39	Glass Cover	Organic Glass	Organic Glass
40	Screw	Carbon Steel	Carbon Steel

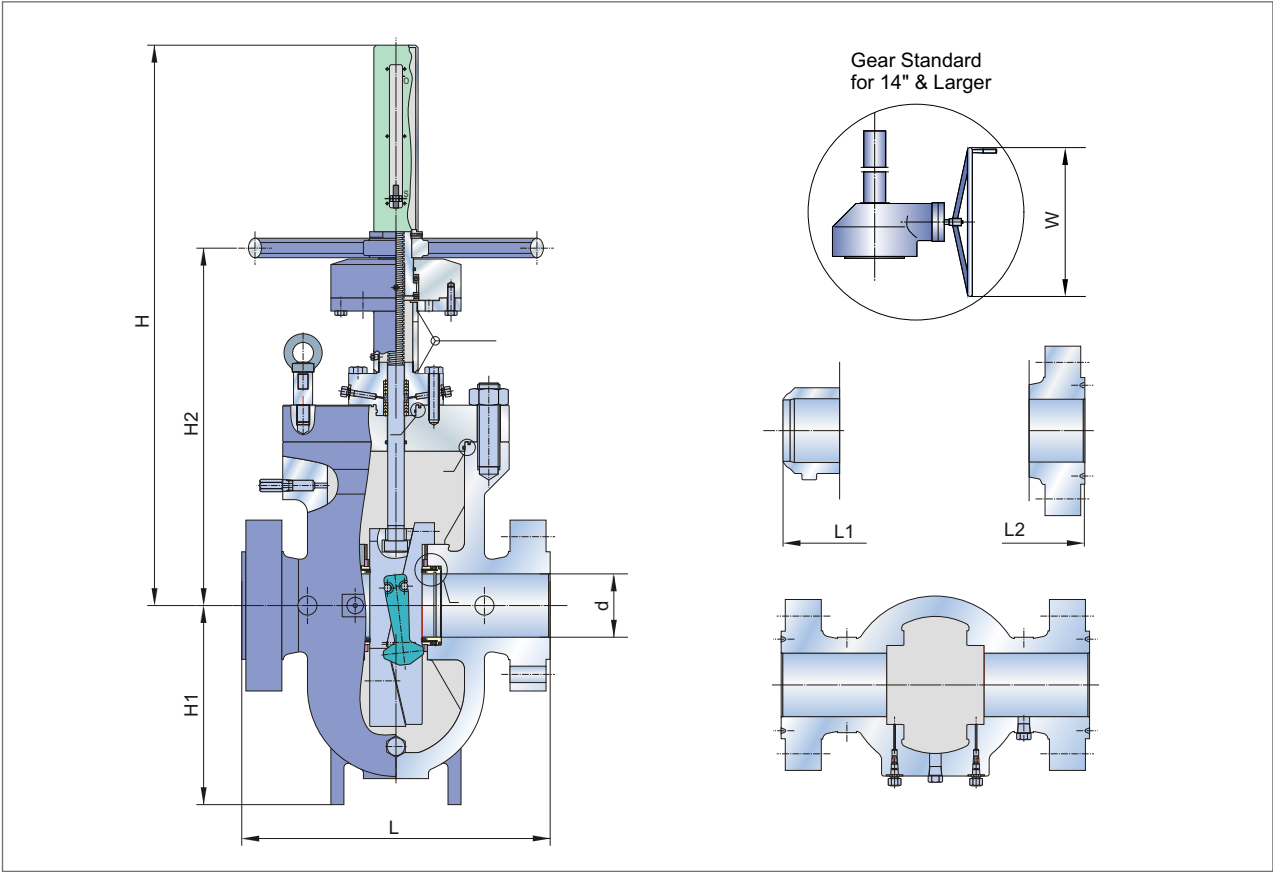
* Recommended Spare Parts

+ Condition H1150D

Series GTE

Expanding Gate Valve

DIMENSIONS AND WEIGHT



300 lb														
size	in	2	3	4	6	8	10	12	14	16	18	20	22	24
	mm	50	80	100	150	200	250	300	350	400	450	500	550	600
d	in	2	3	4	6	8	10	12	14	16	18	20	22	24
	mm	51	76	102	152	203	254	305	337	387	438	489	540	591
L	in	8.5	11	12	16	16.5	18	20	30	33	36	39	43	45
	mm	216	283	305	403	419	457	502	762	838	914	991	1092	1143
L1	in	8.5	11	12	16	16.5	18	20	30	33	36	39	43	45
	mm	216	283	305	403	419	457	502	762	838	914	991	1092	1143
L2	in	9	11.5	12.5	16.5	17	18.5	20	30.5	33.5	36.5	39.5	43.5	45.5
	mm	232	298	321	419	435	473	518	778	854	930	1010	1114	1165
H1	in	5.4	6.9	8.5	14.3	17.3	20.4	23.9	25.7	28.8	32	35	38.1	41.1
	mm	138	176	215	362	440	518	607	653	731	812	889	967	1043
H2	in	11.4	14.8	18.5	25.8	32.9	40.4	47.6	51.7	58.7	66.1	73.1	80.1	87
	mm	289	377	469	656	836	1026	1208	1314	1492	1679	1857	2035	2211
H	in	17	22.4	28.1	39.4	50.5	62	73.2	79.2	90.2	101.7	112.6	123.5	134.3
	mm	431	569	713	1000	1282	1574	1859	2012	2292	2583	2859	3137	3411
EST WT	lb	88.2	154.3	211.6	474	855.4	1201.5	1675.5	2634.5	3450.2	4651.7	6250	8317.9	10703.3
	kg	40	70	96	215	388	545	760	1195	1565	2110	2835	3773	4855

Series GTE

Expanding Gate Valve

DIMENSIONS AND WEIGHT

600 lb														
size	in	2	3	4	6	8	10	12	14	16	18	20	22	24
	mm	50	80	100	150	200	250	300	350	400	450	500	550	600
d	in	2	3	4	6	8	10	12	14	16	18	20	22	24
	mm	51	76	102	152	203	254	305	337	387	438	489	540	591
L	in	11.5	14	17	22	26	31	33	35	39	43	47	51	55
	mm	292	356	432	559	660	787	838	889	991	1092	1194	1295	1397
L1	in	11.5	14	17	22	26	31	33	35	39	43	47	51	55
	mm	292	356	432	559	660	787	838	889	991	1092	1194	1295	1397
L2	in	11.5	14	17	22	26	31	33	35	39	43	47	51	55
	mm	295	359	435	562	664	791	841	892	994	1095	1200	1305	1407
H1	in	5.5	6.9	8.5	14.4	17.5	21.7	24.3	27	29.7	33	36.3	39.4	42.6
	mm	139	176	217	365	445	550	617	686	755	839	921	1001	1081
H2	in	11.4	14.9	18.5	25.9	33.1	41.1	48	53.9	60.2	67.6	75	82.1	89.1
	mm	290	378	471	659	840	1045	1218	1370	1528	1718	1905	2086	2263
H	in	17	22.4	28.1	39.5	50.6	57.9	73.6	82.8	92.6	104.3	115.7	126.9	137.8
	mm	432	570	715	1003	1286	1470	1870	2104	2352	2648	2939	3222	3501
EST WT	lb	92.6	183	352.7	606.3	1036.2	1741.6	3031.3	3351	4420.2	5698.9	7605.8	9997.8	13002.6
	kg	42	83	160	275	470	790	1375	1520	2005	2585	3450	4535	5898

900 lb														
size	in	2	3	4	6	8	10	12	14	16	18	20	22	24
	mm	50	80	100	150	200	250	300	350	400	450	500	550	600
d	in	2	3	4	6	8	10	12	12.5	14.5	16.5	18.5	20.5	22.5
	mm	51	76	102	152	203	254	305	324	375	425	473	524	572
L	in	14.5	15	18	24	29	33	38	40.5	44.5	48	52	52	61
	mm	368	381	457	610	737	838	965	1029	1130	1219	1321	1321	1549
L1	in	14.5	15	18	24	29	33	38	40.5	44.5	48	52	52	61
	mm	368	381	457	610	737	838	965	1029	1130	1219	1321	1321	1549
L2	in	14.5	15	18	24	29	33	38	40.5	44.5	48.5	52.5	52.5	61.5
	mm	371	384	460	613	740	841	968	1038	1140	1232	1334	1334	1568
H1	in	5.7	7.3	8.9	15	18.2	21.5	24.7	26.4	29.6	32.9	36.1	39.2	42.3
	mm	145	185	226	381	463	545	628	670	752	836	916	996	1075
H2	in	11.4	15	18.7	26.2	33.4	41.1	48.3	51.9	59.1	66.5	73.5	80.6	87.6
	mm	290	381	474	665	848	1043	1228	1318	1501	1689	1867	2047	2224
H	in	17	22.6	28.3	39.7	50.9	62.6	74	79.4	90.6	102.1	113	124	134.8
	mm	432	573	718	1009	1294	1591	1879	2016	2301	2593	2869	3149	3424
EST WT	lb	158.7	310.8	562.2	754	1283.1	2259.7	3395.1	5202.8	7352.3	9056.4	10758.4	12996	16904.8
	kg	72	141	255	342	582	1025	1540	2360	3335	4108	4880	5895	7668

Series GTE

Expanding Gate Valve

DIMENSIONS AND WEIGHT

1500 lb						
size	in	2	3	4	6	8
	mm	50	80	100	150	200
d	in	2	3	4	5.5	7.5
	mm	51	76	102	146	194
L	in	14.5	18.5	21.5	27.5	32.5
	mm	368	470	546	705	832
L1	in	14.5	18.5	21.5	27.5	32.5
	mm	368	470	546	705	832
L2	in	14.5	18.5	21.5	28	33
	mm	371	473	549	711	841
H1	in	6.3	7.8	9.6	18.1	22.2
	mm	160	197	245	460	565
H2	in	13.6	15.4	21.9	31.1	38.6
	mm	345	390	555	790	980
H	in	20.1	23.0	31.5	44.5	54.7
	mm	510	585	800	1130	1390
EST WT	lb	211.6	480.6	683.4	1071.4	1521.2
	kg	96	218	310	486	690

Flow Control Expert



Part number: GT01001-1405