



MACNEIL STEEL AND VALVES (PTY) LTD



MSV A105 FORGED STEEL GATE VALVES FLANGED

+27 (011) 822 1802

www.msv.co.za

1575 Staal Rd, Knights, Germiston,
Gauteng, SA

MSV A105 FORGED STEEL GATE VALVES FLANGED ASA150 / ASA300 / ASA600

- Gate valves are Bi-directional valves ideally suited for on-off duties.
- Pressure ratings: Class 150 / Class 300 / Class 600
- ASTM A105 Body for General Service: Oil, Oil Vapor, Gas, Steam and Water
- Trim: Trim 1 – 13% Cr, Type 410 Stainless steel: For Oil and Oil Vapor and general services with heat treated seats and wedges
- Design and manufacture According to API 602
- Face to face dimension According to ANSI B16.10
- Flange End dimensions According to ANSI B16.5
- Pressure Test According to API STD. 598

Temp ° C	CARBON STEEL		
CLASS	150	300	600
-20 to 100	285	740	1480
200	260	675	1350
300	230	655	1315
400	200	635	1270
500	170	600	1200
600	140	550	1095
650	125	535	1075
700	110	535	1065
750	95	505	1010
800	80	410	825
850	65	270	535
900	*50	170	345

* To be used on Oil Service only.

NO	PART NAME	MATERIAL
1	Body	ASTM A105
2	Wedge	ASTM A276 420
3	Seat Ring	ASTM A276 410
4	Stem	ASTM A276 410
5	Gasket	Graphite +SS304
6	Bonnet	ASTM A105
7	Bonnet Bolt	ASTM A193 B7
8	Stem Packing	Reinforced Graphite
9	Gland	ASTM A276 410
10	Gland Flange	ASTM A216 WCB
11	Gland Eyebolt	ASTM A193 B7
12	Gland Nut	ASTM A194 2H
13	Stem Nut	ASTM A276 410
14	Hand Wheel	ASTM A197

Nominal Diameter		Main Dimensions (mm) CLASS 150								
inch	mm	d	D	D1	D2	b	n- Ød	L	H open	W
½"	15	9.5	89	60.3	35	11.5	4- Ø16	108	166	100
¾"	20	13	98	69.9	43	12	4- Ø16	117	169	100
1"	25	18	108	79.4	51	12	4- Ø16	127	193	125
1 ¼"	32	23	117	88.9	64	13	4- Ø16	140	230	160
1 ½"	40	28	127	98.4	73	15	4- Ø16	165	246	160
2"	50	36	152	120.7	92	16	4- Ø19	178	283	180

Nominal Diameter		Main Dimensions (mm) CLASS 300								
inch	mm	d	D	D1	D2	b	n- Ød	L	H open	W
½"	15	9.5	95	66.7	35	15	4- Ø16	140	166	100
¾"	20	13	118	82.6	43	16	4- Ø19	152	169	100
1"	25	18	124	88.9	51	18	4- Ø19	165	193	125
1 ¼"	32	23	133	98.4	64	19	4- Ø19	178	230	160
1 ½"	40	28	156	114.3	73	21	4- Ø22	190	246	160
2"	50	36	165	127.0	92	23	8- Ø19	216	283	180

Nominal Diameter		Main Dimensions (mm) CLASS 600								
inch	mm	d	D	D1	D2	b	n- Ød	L	H open	W
½"	15	9.5	95	66.7	35	15	4- Ø16	165	166	100
¾"	20	13	118	82.6	43	16	4- Ø19	190	169	100
1"	25	18	124	88.9	51	18	4- Ø19	216	193	125
1 ¼"	32	23	133	98.4	64	21	4- Ø19	229	230	160
1 ½"	40	28	156	114.3	73	23	4- Ø22	241	246	160
2"	50	36	165	127.0	92	26	8- Ø19	292	283	180



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