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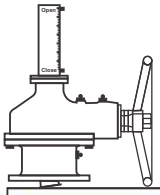
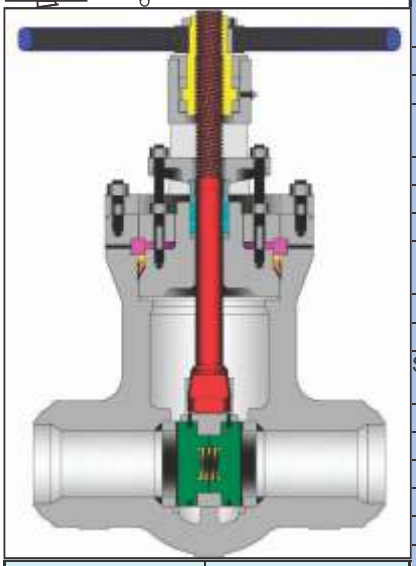
USMANI
TUBES & VALVES CO. PVT. LTD.

PRESSURE SEAL PARALLEL SEAT GATE VALVES

2" TO 16" (50 TO 400 mm) ASME CLASSES 600 TO 2500



GEAR OPERATION



Class	Fig. No.
600	1607
900	1907
1500	1107
2500	1207

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB (STANDARD)	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Yokearm	A216 Gr. WCB			
Disc	A105 + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Screw	SST 304			
Disc Holder	A105	A182 F11	A182 F22	A182 F91
Spring	Inconel			
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Stem	A182 F6a			
Stem Bushing	A 439 Ductile NI-Resist Gr. D2			
Stem Bushing Lock Nut	Steel			
Gland Flange	A216 Gr. WCB			
Eye Bolt	A193 Gr. B7			
Eye Bolt Nut	A194 Gr. 2H			
Gland	SST 410			
Packing	Graphite			
Packing Washer / Packing Spacer	SST 410			
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Support Plate	Steel			
Gasket	SST 304L			
Hand Wheel	Malleable Iron or Steel			
Hand Wheel Nut	Steel			
Key	Steel			
Lubricant Fitting	Steel			
Bonnet Takeup / Yoke Stud	A193 Gr. B7	A193 Gr. B16		
Bonnet Takeup / Yoke Nut	A194 Gr. 2H	A194 Gr. 7		

DESIGN FEATURES:

Standard trim is stellite faced seat and disc seat surfaces, and 13% chrome stem (API trim 5). Other trims available on request.

Valves are full port design per ASME B16.34 Table A-1.

Seat faces lapped for smooth finish and superior sealing.

Stems are non-rotating with surface finish to maximize packing seal for low fugitive emissions.

Yoke arms designed for ease of gear, motor or cylinder actuator adaptation.

Each valve is shell, seat and backseat pressure tested per industry standard API 598.

Gland is two piece gland / gland flange design for optimal alignment and uniform packing compression.

Parallel Discs are spring supported, offering a more refined seal.

Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long pattern design. Weld end valve dimensions given in table on next page.

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test report, inspection report and certificate of conformance.

Valve sizes 4" and smaller have bonnet take up ring design instead of support plate design.

Other available options as follows:
- -Alternate valve materials such as chrome and stainless steel alloys
- -Alternate trim materials
- -Bypass, drain and other auxiliary connections
- -Gear, motor, and cylinder actuators available
- -NACE service
- -Special cleaning for applications such as oxygen or chlorine
- -Other options available as specified

PARALLEL GATE VALVES

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PRESSURE SEAL PARALLEL SEAT GATE VALVES
2" TO 16" (50 TO 400 mm)ASME CLASSES 600 TO 2500

PARALLEL SLIDE GATE VALVE DIMENSIONS (CLASS 600—2500).

SIZE	ASME 600					ASME 900					ASME 1500				
in / mm	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E
2	7.00	16.7	19.2	2.00	8	8.50	20.7	23.0	1.87	14	8.50	21.6	24.0	1.87	14
50	178	424	488	51	200	216	526	584	48	356	216	549	608	48	356
2½	8.50	20.6	23.6	2.50	12	10.00	22.5	25.1	2.25	14	10.00	22.5	25.3	2.25	14
65	216	523	599	64	305	254	572	638	57	356	254	572	643	57	356
3	10.00	21.3	24.7	3.00	12	12.00	23.8	26.1	2.87	14	12.00	24.7	28.1	2.75	16
80	254	541	627	76	305	305	605	663	73	356	305	627	714	70	406
4	12.00	25.4	30.0	4.00	14	14.00	25.2	29.5	3.87	16	16.00	28.7	32.9	3.62	20
100	305	645	762	102	356	356	640	750	98	406	406	729	836	92	500
6	18.00	29.6	36.1	6.00	20	20.00	30.7	37.1	5.75	20	22.00	31.9	38.0	5.37	22
150	457	752	917	152	508	508	780	942	146	508	559	810	965	136	560
8	23.00	34.6	43.2	7.88	20	26.00	35.6	44.0	7.50	25	28.00	36.8	44.6	7.00	28
200	584	879	1097	200	508	660	904	1118	191	640	711	935	1133	178	720
10	28.00	40.4	51.0	9.75	25	31.00	46.2	55.5	9.37	30	34.00	46.5	55.3	8.75	28
250	711	1026	1295	248	640	787	1173	1410	238	762	864	1181	1405	222	710
12	32.00	46.5	58.9	11.75	28	36.00	61.3	72.4	11.12	30	39.00	52.1	62.5	10.37	30
300	813	1181	1496	298	680	914	1557	1839	282	762	991	1323	1588	263	762
14	35.00	59.9	65.1	12.88	30	39.00	69.9	82.2	12.25	30	42.00	66.1	77.5	11.37	36
350	889	1521	1654	327	762	991	1775	2088	311	762	1067	1679	1969	289	914
16	39.00	73.2		14.75	18	43.00	91.3		14.00	24	47.00	79.0		13.00	24
400	991	1859		375	460	1092	2311		356	610	1194	2007		330	610

(1) Gear operators standard for 16" and up classes 600 to 1500 and 14" and up for class 2500.

B = Center to top closed
C = Center to top open

SIZE	ASME 2500				
in / mm	A	B(1)	C(1)	D	E
2	11.00	19.3	21.4	1.50	12
50	279	490	543	38	300
2½	13.00	23.0	27.1	1.87	18
65	330	584	688	48	457
3	14.50	23.5	26.4	2.25	18
80	368	596	670	57	457
4	18.00	29.2	33.0	2.87	20
100	457	742	838	73	508
6	24.00	31.4	36.5	4.37	24
150	610	798	928	111	610
8	30.00	41.2	49.2	5.75	24
200	762	1069	1250	146	610
10	36.00	47.3	52.6	7.25	30
250	914	1201	1336	184	762
12	41.00	54.7	68.7	8.62	36
300	1041	1389	1745	219	914