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PRESSURE SEAL GATE VALVES



#### **FEATURES**

- SOLID AND FLEXIBLE WEDGE DESIGN
- RENEWABLE WELDED SEAT RINGS
- CAST & STAINLESS STEEL
- SIZE 2" 24" ANSI CLASS 600 2500
- BASIC DESIGN ANSI B 16.34
- FACE TO FACE DIMENSION ANSI B16.10
- END FLANGES DIMENSION ANSI B 16.5
- BUTT-WELD END DIMENSION ANSI B16.25
- INSPECTION & TESTING API 598 / API6D

MR 0175

## **TRIM MATERIAL**

Trim No.	Seat ring surface	Wedge seat surface	Stem	Backseat bushing				
1	F6 (13% CR)	F6 (13% CR)	F6 (13% CR)	F6 (13% CR)				
2	F304	F304	F304	F304				
5	Stellite 6	Stellite 6	F6 (13% CR)	F6 (13% CR)				
6	Cu-Ni	F6 (13% CR)	F6 (13% CR)	F6 (13% CR)				
8	Stellite 6	F6 (13% CR)	F6 (13% CR)	F6 (13% CR)				
9	Monel	Monel	Monel	Monel				
10	F316	F316	F316	F316				
13	Alloy 20	Alloy 20	Alloy 20	Alloy 20				

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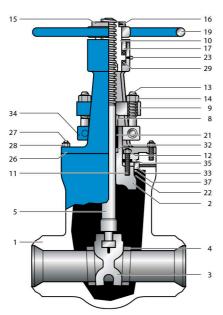
## CAST & STAINLESS STEEL PRESSURE SEAL GATE VALVES CLASS 600 - 2500

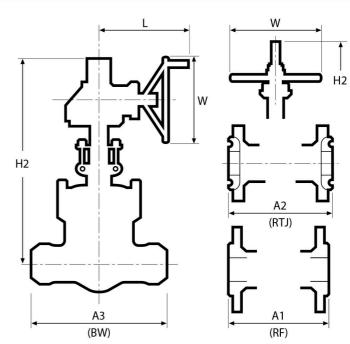
**GATE VALVES** 

2" - 24"

SP OPE

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#### **BILL OF MATERIAL**

NO	NAME OF PART	ASTM SPECIFICATION													
NO	NAME OF PART	CARBON STEEL	HIGH TE	MPERATURE	SERVICE	LOW TEMPERATURE SERVICE	STAINLI	ESS STEEL							
-1-(	BODY	A216-WCB	A217-WC6	A217-WC9	A217-C5	A352-LCB/LC2/LC3	CF8M	CF8C							
2	BONNET	A216-WCB	A217-WC6	A217-WC9	A217-C5	A352-LCB/LC2/LC3	CF8M	CF8C							
3	DISC	A217-CA15	A217-WC6	A217-WC9	A217-C5	A352-LCB/LC2/LC3	CF8M	CF8C							
4	BODY SEAT RING	A 105 + HARD FACE	A182-F11	A182-F22	A182-F50	A182-F304	F316	F347							
5	STEM	A182-F6d	A182-F60	A182-F6Q	A182-F6Q	A182-F304	F316	F347							
8	PACKING GLAND	A276-410	A276-410	A276-410	A276-410	A276-304	F316	F347							
9	GLAND FLANGE	A105	A105	A105	A105	A350 - LF2	CF8M	CF8C							
10	YOKE SLEEVE	A439-D2C	A439-D2C	A439-D2C	A439-D2C	B147-B8	F316	F347							
11	BONNET BOLT	A193-B7	A193-B16	A193-B16	A193-B16	A320-L7	A193-B8	A193-B8							
12	BONNET NUT	A194-2H	A194-4	A194-4	A194-4	A194-4	A194-8	A194-8							
13	GLAND BOLT	A193-B7	A193-B7	A193-B7	A193-B7	A320-L7	A193-B8	A193-B8							
14	GLAND NUT	A194-2H	A194-2H	A194-2H	A194-2H	A194-4	A194-8	A194-8							
15	HANDLE NUT				S	TEEL									
16	SET SCREW				S	TEEL									
17	SLEEVE GLAND				S	TEEL									
19	HANDWHEEL				A	395									
21	PACKING				COMI	MERCIAL									
22	GASKET					MERCIAL									
23	GREASE NIPPLE			STE	L		BRONZE	BRONZE							
26	YOKE	A216-WCB	A217-WC6	A217-WC9	A217-C5	A352-LC1/LC2/LC3	CF8M	CF8C							
27	YOKE BOLT	A193-B7	A193-B16	A193-B16	A193-B16	A320-L7	A193-B8	A193-B8							
28	YOKE NUT	A194-2H	A194-4	A194-4	A194-4	A194-4	A194-8	A194-8							
29	BEARING		MERCIAL	° SN											
32	PACKING WASHER	A276-410 A276-410 A276-410 A276-304		A276-304	F316 💡	F347									
33	RETA1NER	A276-410	A276-410	A276-410	A276-410	A276-304	F316 🖁	F347							
34	HINGE CLAMP	A216-WCB	A217-WC6	A217-WC9	A217-C5	A352-LC1/LC2/LC3	CF8M	CF8C							
35	BONNET CLAMP	A216-WCB	A217-WC6	A217-WC9	A217-C5	A352-LC1/LC2/LC3	CF8M	CF8C							
37	GASKET SPACER	A276-410	A276-410	A276-410	A276-410	A276-304	F316	F347							

HARD FACE STANDARD STELLITE 6 (OTHER OPTIONS AVAILABLE UPON REQUEST)

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## PRESSURE SEAL GATE VALVES

#### **CLASS 600 - CAST & STAINLESS STEEL PRESSURE SEAL GATE VALVES**

#### VALVE 2 2.5 3 4 8 10 12 20 6 14 16 18 24 in SIZE A1 in 7.0 8.5 10.0 12.0 18.0 23.0 28.0 32.0 35.0 39.0 43.0 47.0 55.0 (RF) A2 in 11.5 13.0 14.0 17.0 22.0 26.0 31.0 33.0 35.0 39.0 43.0 47.0 55.0 (RTJ) A3 In 11.62 13.12 14.12 17.12 22.12 26.12 31.12 33.12 35.12 39.12 43.12 47.25 55.38 (BW) in 23.2 24.8 26.3 36.0 42.5 49.9 59.5 70.5 73.1 85.1 88.6 97.2 118.1 H2 7.9 9.8 9.8 11.8 19.7 22.0 27.2 35.8 24.0 24.0 24.0 24.0 30.0 in W 17.0 17.0 20.2 in \_ -20.2 20.2 21.8 \_ ----L WGT 4586.4 lb 209.5 220.5 540.2 948.2 1995.5 154.4 326.3 705.6 1135.6 1477.4 2535.8 3186.2 (RF) WGT lb 136.7 176.4 185.2 253.6 377.1 474.1 590.9 701.2 959.2 1256.9 1587.6 1962.5 2833.4 (BW)

#### **DIMENSIONS & WEIGHTS**

#### **CLASS 900 - CAST & STAINLESS STEEL PRESSURE SEAL GATE VALVES**

#### **DIMENSIONS & WEIGHTS**

VALVE SIZE	in	2	2.5	3	4	6	8	10	12	14	16	18	20	24
A1 (RF)	in	8.5	10.0	12.0	14.0	20.0	26.0	31.0	36.0	39.0	43.0	46.5	50.5	59.5
A2 (RTJ)	in	14.5	16.5	15.0	18.0	24.0	29.0	33.0	38.0	40.5	44.5	48.0	52.0	61.0
A3 (BW)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.5	52.5	61.75
H2	in	23.4	29.6	29.8	34.0	39.9	50.2	60.7	70.1	79.8	89.0	97.2	108.3	127.6
w	in	11.8	17.7	17.7	19.7	22.0	18.1	24.0	24.0	24.0	24.0	29.9	29.9	.24.0
L	in	-	-	_		-	16.8	17.0	20.2	20.2	20.2	21.8	21.8	20.1
WGT (RF)	lb	132.3	207.3	224.9	330.8	617.4	1455.3	2116.8	2976.8	3748.5	5292	7320.6	9702.0	14927.9
WGT (BW)	lb	88.2	141.1	176.4	220.5	407.9	1091.5	1620.7	2315.3	3087.0	4299.8	6019.7	8125.4	11973.2



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24

## PRESSURE SEAL GATE VALVES

#### **CLASS 1500 - CAST & STAINLESS STEEL PRESSURE SEAL GATE VALVES**

#### **DIMENSIONS & WEIGHTS** VALVE in 2 2.5 3 4 6 8 10 12 14 16 18 20 SIZE A1 10.0 12.0 28.0 42.0 47.0 58.0 64.0 in 8.5 16.0 22.0 34.0 39.0 53.0 (RF) A2 14.5 16.5 18.5 21.5 27.75 32.75 39.0 44.5 49.5 54.5 60.5 65.5 76.5 in (RTJ) A3 14.62 16.62 18.62 21.62 28.0 33.13 39.38 45.12 50.25 55.38 61.38 66.38 77.62 in (BW) H2 in 23.4 29.6 29.6 34.0 48.0 51.6 64.8 77.8 87.2 91.8 111.1 122.1 148.3 in 11.8 17.7 17.7 19.7 24.0 24.0 24.0 24.0 29.9 29.9 29.9 24.0 24.0 W in 17.0 17.0 20.2 20.0 21.8 21.8 21.8 20.2 20.2 L \_ WGT lb 132.3 207.3 264.6 458.6 1058.4 2006.6 3109.1 4586.4 5755.1 7938 13141.8 16250.9 23395.1 (RF) WGT lb 88.2 141.1 176.4 326.3 749.7 1499.4 2249.1 3197.3 3969 6063.8 10209.2 12612.6 18169.2 (BW)

#### **CLASS 2500 - CAST & STAINLESS STEEL PRESSURE SEAL GATE VALVES**

#### **DIMENSIONS & WEIGHTS**

	100 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0	LIGHTS										
VALVE SIZE	in	2	2.5	3	4	6	8	10	12	14	16	18
A1 (RF)	in	11.0	13.0	14.5	18.0	24.0	30.0	36.0	41.0	44.0	49.0	55.0
A2 (RTJ)	in	17.75	20.0	22.75	26.5	36.0	40.25	50.0	56.0	-	-	-
A3 (BW)	in	17.87	20.25	23.0	26.8	36.5	40.87	50.88	56.88	-	-	-
H2	in	23.4	29.6	29.6	34.3	47.3	57.1	63.4	82.5	90.2	97.2	116.1
w	in	14.0	17.7	19.7	23.6	24.0	24.0	24.0	29.9	29.9	24.0	24.0
L	in	-	-	-	-	17.0	20.2	20.2	21.8	21.8	20.2	20.2
WGT (RF)	lb	172.1	273.4	334.1	702.7	1640.3	2673	48074	6925.5	-	PERATIONS of the second s	
WGT (BW)	lb	101.3	182.3	1924	384.8	1053	1498.5	3240	6075	6885	8505	10125



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## PRESSURE SEAL GATE VALVES

## HOW TO ORDER

		VALVE TYPE							MAT	ERIA	L										
	SERIES Body Design Bonnet Design			Wedge/Disc Design	FEATURES			BODY		TRIM (Stem/Wedge seat/seat				ENDS		CLASS	CLASS	SIZE <sup>(4)</sup>		OPERATION	
	Gate Valve	,	F	Flexible Wedge	NONE	NONE		20	A216 WCB	01	Ring) 13CR		F	Flanged RF	0	ANSI 150#	02	2"			
50	OS&Y API 600	P Pressure Seal	S	Solid Wedge	6D	API 6D		21	A216 WCC	02	304SS		R	Flanged RTJ	3	ANSI 300#	02.5	21/2"	H	Hand wheel	
51	Gate Valve		P	Parallel Slide	N	NACE		22	A350 LCB <sup>(1)</sup>	05	13CR / HF / HF		В	Butt Weld	6	ANSI 600#	03	3"	G	Gear	
	OS&Y API 603			w/ Spring	ND	NACE/API 6D		23	A352 LC3 <sup>(1)</sup>						9	ANSI 900#	04	4"		Operator	
			R	Parallel Slide w/ Spreaders	F	24		A217 WC1 A217 WC6 <sup>(2)</sup>	06	13CR / 13CR / CuNi				1	ANSI 1500# ANSI 2500#	05 06	5" 6"	E	Electric Actuator		
						Oxigen			A217 WC0		13CR / 13CR /				-	ANOI 2300#	08	8"		Pneumatic	
					0			A217 C5 <sup>(2)</sup>	08	HF						10	10"	P	Actuator		
					FE	Fugitive		28		09	Monel						12	12"	в	Bare Shaft	
						Emmisions	-		A351 CF8M <sup>(3)</sup>		316SS	-					14	14"			
					BS	Bellows Seal			A351 CF3M <sup>(3)</sup> A351 CF8 <sup>(3)</sup>		AB C61300						16 18	16" 18"			
					0.0	Criogenic		33	A351 CF3 <sup>(3)</sup>	12	316SS / 316SS / HF						20	20"			
					CR	Service		40	Monel	13	CN7M						24	24"			
								41	Alloy 20	14	CN7M / CN7M HF						26	26"			
								42 43	Hastelloy A182 Gr321	15	AB C95500						28 30	28" 30"			
								43 44	A182 G1321 A182 Gr347	16	316 + HF / 316 + HF / 316 + HF						36	36"			
								45	Duplex	17							40	40"			
								46	Triballoy 900		Monel / Monel /						42	42"			
								47	Incolloy 800		HF						48	48"			
								48	Incolloy 825								52	52"			

Example

Gate Valve OS&Y API 603, Pressure Seal Flexible Wedge Body WCB Trim 5 (Stem 13% Cr, Wedge and Seat Harfacing Stellite) Flanged ANSI Class 150# Size 6" with Handwheel.

### 51PF-2005-F006H

(1) Low tem perature Sevice (2) High temperature Sevice (3) Stainless Steel (4) Available Sizes: ANSI Class 150# - from 2" to 52" 300# - from 2" to 48", 600, 900 & 1500# - from 2" to 24" 2500# - from 2" to 12" General Notes: \*API 603 Light Wall (ANSI/ASME B16.34) \*\*API 600 Heavy Wall \*\*\*HF = Usually Stellite 6 other available under request

