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DUAL PLATE CHECK VALVES

PRESSURE CLASS: ASME 150-2500 API - 2000 - 5000 SIZE RANGE : 2" - 60" API STANDARDS : 594, 6D & 6A ASME B16.34





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ORDERING GUIDE

Example: 8" Figure #36600-A-10-E

36	60	0	- A	- 10	—
			4.	5.	

E

6.

1. 2. 3.

8" CLASS 600 DUAL PLATE CHECK, WAFER TYPE, RF, A216 WCB BODY, A351 CF8M DISC, 316SS FACED BODY SEAT, EPDM SEAT, INCONEL X-750 SPRING

1. MODEL	
36 - WAFER TYPE	39 - FLANGED TYPE
37 - LUGGED TYPE THREADED	40 - SINGLE PLATE WAFER TYPE
38 - LUGGED TYPE THRU-HOLE DRILLED	
2. RATING	
12 - CLASS 125	150 - CLASS 1500
15 - CLASS 150	250 - CLASS 2500
30 - CLASS 300	200 - API 2000
60 - CLASS 600	300 - API 3000
90 - CLASS 900	500 - API 500
3. END CONNECTION	
0 - RF FLANGED	9 - RTJ FLANGED
6 - FF FLANGED	X - SPECIAL - PLEASE SPECIFY
4. BODY MATERIAL	
A - WCB/ A105	T - A890-5A
G - LGG/LF2	U - A890-6A
M - CF8/ F304SS	V - A126 CAST IRON
N - CF8M/ F316SS	W - A395 DUCTILE IRON
R - CN7M	X - B148 Gr. C95800 AL. BRONZE
S - A890-4A	O - SPECIAL - PLEASE SPECIFY
5. TRIM	
1 WCB+13CR	16 316SS-FULLSTELLITE
8 WCB 1/2 STELLITE	9 CN7M
5 WCB+FULL STELLITE	11 CN7M+1/2 STELLITE
2 304SS	21 A890-4A
2S 304SS+1/2 STELLITE	22 A890-5A
15 3045S+FULL STELLITE	23 A890-6A
10 3165S	24 B148
12 3165S+1/2 STELLITE	X SPECIAL - PLEASE SPECIFY
6. BODY SEAT	
M - METAL	V - VITON "B"
B - BUNA-N	H - HNBR
E - EPDM	
7. SPECIAL REQUIREMENTS	

N - NACE MR01-75

5 - SUPPLY COMPLETE INFORMATION

STANDARD FEATURES



Industry Standards:

- ASME B16.1, B16.5, B16.24, B16.34, B16.47 and B31.1
- API 594 and 598
- MSS-SP-25, MSS-SP-55
- API 6A and 6D (as applicable)
- MSS-SP-61 (standard for the resilient seated, metal seated when required)
- NACE MR-01-75 (Latest Edition, when required)

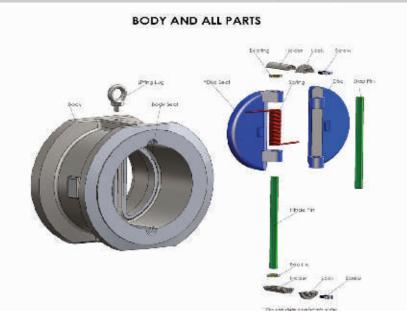
Technical Data:

Size range : 2" thru 60" Pressure Classes : ASME 125 thru 2500 : API 2000 thru 5000 Temperature Range : -46°F to 1100°F

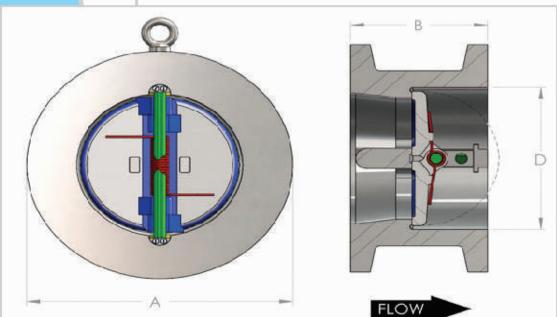
Design Features:

- Retainer less design eliminates fugitive Emissions. Is firesafe by design.
- A more compact Light weight design Is 80 to 90% lighter than conventional full-body swing check valves.
- Simplifies piping for an easier, less costly installation. Optimum space utilization for simplified piping.
- · Spring-loaded, dual plate design has Very low cracking pressure.
- Discs open 85° to ensure a low pressure drop.
- Positive sealing under most operating conditions. The valve closes before the flow reverses at zero velocity.
- . With the spring assisted closing, water Hammer is all but eliminated.
- By design the valve is inherently non-slamming. This is due to the plates closing before the media flow reverses.
- The Wafer check valve can be installed in the horizontal and vertical up positions. For vertical down installations please contact **FASTWELL**

NO.		WCB / A105 Trim #8	WCB / A105 Trim #1	_GC / LF2 Trim #10	LCG / LF2 Trim #12	CF8 / F301 Trim #2	CF8 / F301 Trim #2S	C∓8M / F316 Trim,≇10	CF6M / F318 Trim #12
1	BODY	WCB/A105	WCB/A105	LCG/LF2	LCC/LF2	CF8/304	CF8/304	CFSM/318	CF8N/318
2	BODY SEAT	STL	13Cr	SS316	ST_	as same as body	ST_	as same as body	ST_
з	DISC	CH8/CA15	CH8/CA15	Снам	CF8M	Č⊦8	Снв	CF8M	CEBM
4	DISC SEAT				aos 15	ame as disc			
ō	HOLDER	GF8/GA15	CF&/CA15	CF8M	CESM	CFS	CFS	CF6M	CESM
6	BEARING	SS410	SS410	SS316	SS3-6	SS304	SS304	SS316	SS316
7	SPRING		ta da	2	INC	UNEL X-750		2	
8	HINGE PIN	SS410	SS410	55316	\$5318	\$\$304	55304	SS318	SS318
9	STOP PIN	SS410	SS410	55316	SS3:0	SS304	ି SS304	SS3-0	SS510
10	LOCK	A105	A106	SS316	SS3'6	SS301	SS304	SS316	SS316
11	SCREW	88304	88304	58316	SS3*5	55304	55304	SS3*8	BB315
12	LIFTING LUG		·		CAR	BON STEEL			







Construction:

Dual plate check valves, Wafer type, Retainer less design, Spring loaded, Horizontal or Vertical positions.

Dimensions

Face to Face	ASME B16.10
End Flange	ASME B16.5*
Rating ASME	Class 150-2500

*26" and larger are available with ASME B16.47 end flanges, either Series A or Series B (formerly MSS SP-44 and API 605.)

Dimensions & Weights - Wafer Type - ASME Class 150

SL	ZE	E		DIMEN		c		WE	ĞНІ		ST DIAM	IUD DETA ETER	its studiter	NG H (RP)
NPS	DN.	in	DЭTT	in	ШL	in	mm	Lbs	Kgs	Na.	in	nm.	in	mm
1 -/2'	40	2.36	60	3.35	85	1.65	47	3	1.5	4	1/2 *	M12	5.12	130
2*	50	2.36	60	4.CE	103	2.17	55	ā	2.2	4	5/8 '	M16	5.51	140
2-1/2'	05	2.64	67	4.6	122	2.68	68	7	3.1	1	5/81	M16	5.91	150
3*	50	2.87	73	5.01	135	3.23	82	9	4.3	4	5/8	M16	6.3	160
4.	100	2.87	73	6.81	173	4.25	108	14	6.3	8	5/81	M16	6.69	170
5'	125	3.39	86	7.68	195	5.12	130	18	8.4	8	3/41	M20	7.78	190
6'	150	3.86	98	8.7	221	6.5	165	28	12.6	8	3/41	M20	8.07	205
8.	200	5	127	8.94	227	8.66	220	53	24	8	3/4 *	M20	9.45	240
10	260	5.75	146	13.27	337	10.63	270	88	40	12	7/8'	M24	10.63	270
12	300	7.13	181	16.02	407	12.6	320	145	00	·2	7/81	M24	12.2	310
141	350	7.24	184	17.64	449	13,78	350	183	53	12	1'	M27	12.8	325
16	400	7.52	191	20.16	512	15.75	400	224	102	18	1'	M27	13.39	340
181	450	7.90	203	21.54	547	17.24	438	273	124	18	1-1/8	MBO	14.37	385
20 '	500	8.62	219	23.78	804	10.49	495	330	150	20	1 1/8*	M30	15.16	365
241	600	8.74	222	28.15	715	23.43	595	447	203	20	1-1/4*	M33	15.94	405
28 '	700	12.01	305	32.68	830	26.97	685	836	380	28	1-1/4*	M3S	21.28	540
30 (750	12.01	305	34.65	880	28.94	735	909	413	28	1-1/4"	M33	21.05	550
32'	800	12.01	305	36.93	338	30.71	780	1276	580	26	1 1/2*	M39	22.44	570
36 '	800	14.49	368	41.14	1045	34.45	875	1463	665	32	1-1/2*	M39	25.98	880
/01	1000	17.01	432	45.67	1160	38.39	975	1936	066	36	1-1/2"	M39	28.35	720
421	1050	17.01	432	47.67	1216	40.16	1020	2196	998	36	1 1/2*	M39	29.13	740
481	1200	20.63	524	54.33	1380	45.87	1165	3234	1470	44	1-1/2*	M39	33.45	850
54'	1350	22.36	568	6C.87	1546	51.97	132C	4620	2100	44	1-3/4"	M45	37.01	940
60'	1500	24.76	629	67.24	1708	57.48	146C	6/90	2950	52	1-3/4"	M45	/0.16	1020



Dimensions & Weights - Wafer Type - ASME Class 300

0	75			DIMEN	ISIONS	2	3	1 2000	AUT	;	S	TUD DETA	LS	
31	ZE	E	3	1	Ą	1	3] w⊨i	GHT	200	D AM	ETER	STUD LEI	NGTH (RF.
NPS	DN	ir	mm	in	mm	n	mm	Lbs	Kgs	No.	10	mm	іп	1
1-1/2"	40	2.38	60	3.7	94	1.65	42	4	1.8	4	3/4'	N20	6.3	180
2'	50	2.38	60	4.33	110	2.17	55	Ĥ	2.5	8	ti/8'	M18	6.1	155
2-1/2*	85	2.64	67	5.04	128	2.68	68	9	4	8	3/4'	M20	6.89	175
3'	80	2.87	73	5.79	147	3.23	82	11	5	8	3/4*	M20	7.48	190
4*	100	2.87	73	7.05	179	4.25	108	15	7	8	3/4*	M20	7.68	195
5*	125	3.39	86	8.43	214	5.12	130	25	11.2	8	3/4*	M20	8.46	215
6*	150	3.88	88	9.8	249	6.5	165	36	16.5	12	0/4*	M20	9.06	230
8*	200	5	127	12.01	305	8.68	220	69	31.5	12	7/8*	M24	*1.02	280
.0,	250	5.75	146	14.13	369	10.63	270	109	49.5	16	1'	M27	12.4	315
12	300	7.13	181	16.54	420	12.6	320	178	81	- 8	1-1/8'	M30	14.37	365
14	350	8.74	222	19.02	/83	13.5	313	257	117	20	1-1/8'	M30	16.14	410
16'	400	9.13	232	21.14	537	16.76	400	3/18	168	20	1-1/4"	M23	17.13	435
18'	450	10.39	264	23.39	594	17.24	438	440	200	24	1-1/4"	M33	18.7	475
20'	500	11.5	292	25.67	652	19.49	495	627	285	24	1-1/4*	M33	20.08	510
24'	600	12.52	318	30.39	772	28.43	095	836	380	24	1-1/2*	M39	22.05	560
28"	/00	14.49	368	35.28	896	26.97	635	1289	586	23	1-5/8*	M42	25.98	SEO
30"	/50	14.49	368	37.4	950	28.94	735	1531	886	28	1-3/4*	M45	26.77	680
32*	800	14.49	368	39.53	1004	30.71	780	2169	986	28	1-7/8*	M48	27.56	700
36*	900	19.02	483	43.06	1114	34.45	875	2354	1070	32	2'	M51	03.07	840
40*	1000	22.38	568	43.7	1110	38.39	875	2904	1320	32	1-5/8*	M42	36.22	32C
42*	1050	22.36	568	45.87	1160	40.18	1020	3300	1500	32	1-5/81	M42	36.61	93C
48*	1200	24.76	829	51.97	1320	45.87	1165	4950	2250	32	1-7/8'	M48	4C.55	1030
54*	- 350	25	835	58.58	1488	ō1.97	1320	7392	3360	28	2-1/4*	M57	43.7	1110
60*	1500	27.6	701	64.57	1640	57.48	1460	0735	4425	32	2-1/41	M57	46.85	1190

Dimensions & Weights - Wafer Type - ASME Class 600

0.0	20			DIMEN	SIONS				<u>ант – – – – – – – – – – – – – – – – – – –</u>			S	TUD DETAI	LS		
51.	ZE	E	3	1	4	1)	S WEI	GHT	Ma	DIAMETER		STUD LENGTH (PF)		STUD LEN	CTH (BTJ)
NPS	DN	in	mm	in	Υm	in	mm	Los	Kg5	No.	in.	mm	n	111111	in	mm
21	50	2.36	БC	4.33	110	2.17	55	6	2.5	н	5/8*	M16	6.89	175	7.09	1HC
2-1/2*	65	2.64	67	5.04	128	2.68	58	9	4	н	3/4*	M20	7.68	195	7.87	200
3'	80	2.87	73	5.79	147	3.23	82	11	5	8	3/4*	M20	8.27	210	8.46	215
4 '	100	3.11	79	7.52	191	4.25	108	20	9	B	7/8*	M24	9.25	235	9.45	240
5'	125	4.13	105	9.45	240	5.12	130	32	14.5	8	1*	M27	11.02	290	11.22	285
6'	150	5.35	138	10.39	264	6.5	165	59	27	12	1'	M27	12.6	320	12.8	325
θ'	200	6.5	165	12.52	318	8.27	210	108	48	12	1 - 1/8'	M30	14.57	370	14.76	375
10'	250	8.39	2-3	15.07	308	10.04	255	206	93.5	10	1-1/41	M33	17.32	440	17.52	445
12'	300	9.02	229	17.91	155	11.81	300	252	114.5	20	1-1/4	M33	18.11	460	18.31	466
14'	350	10.75	273	19.29	190	13.19	335	411	° 87	20	1-3/8	M36	20.47	520	20.67	526
16'	/CO	12.01	305	22.13	562	15.16	285	574	261	20	1-1/2	M39	22.61	575	22.83	580
18'	450	14.25	362	24.32	810	17.13	435	803	365	20	-5/8	M42	25.59	65C	25.79	655
20'	500	14.49	368	26.77	880	19.17	487	997	453	24	-5/8	M42	26.38	670	2ê.77	880
24'	ECO	17.24	438	30.94	786	23.03	585	1551	705	24	·-//8	M48	39.71	78C	31.1	780
28'	700	19.88	505	35.91	912	26.97	685	2189	995	28	2*	M51	34.25	870	34.65	880
30'	750	19.88	505	38.11	968	28.94	735	2596	1180	28	2.	M51	34.65	BHC	35.114	BBO
32'	800	19.88	505	40.16	1020	30.71	780	3685	1675	28	2-1/4	M57	35.43	элс	35.83	910
38'	900	25	635	44.41	1128	34.45	875	4620	2100	28	2 1/2	M64	41.34	1050	41.73	1080
40'	1000	27.6	701	453.68	11523	38.39	975	4939	2245	32	2 1/4 '	M57	48.48	1180	46.85	1190
42'	1050	27.6	701	47.93	1215	40.16	- 020	5610	2550	29	2 1/2 '	M64	47.84	1210	48.03	1220
45'	1200	30.98	797	54.57	1396	45.87	165	8428	3830	32	2-3/41	M70	53.54	1360	53.94	1370



Dimensions & Weights - Wafer Type - ASME Class 900

SIZE				D MEN	SIONS			INTER OF	OUT							
514	2E	E	3	J.	ç 🔅	1) (1 WE	CHT	114	DIAM	ETEN	STUDILET	CTHIRE)	STUD LEN	CTH (RTJ)
NPS	DN	in	mm	in	mm	ir-	mm	Los	Kgs	No.	in	imm	in	11/11	in	mm
2"	÷0	2.76	70	5.51	140	2.17	55	13	6	8	7/8	M24	8.86	225	9.06	230
2-1/2*	65	3.27	83	5.38	162	2.68	68	17	7.5	8	1,	M27	9.84	250	10.04	255
30	80	3.27	83	6.5	165	3.23	82	21	9.6	8	7/8'	M24	9.45	240	9.65	245
4"	100	4.02	102	8.03	204	4.25	108	37	17	8	1-1/8*	M30	11.22	285	11.42	290
5"	125	4.33	110	9.65	245	5.12	130	82	28	8	1-1/4*	M33	12.2	310	12.4	315
8"	150	6.26	159	11.26	286	6.3	160	HC	41	12	1-1/8*	M30	14.37	365	14.57	370
H**	211G	8.1*	206	14.02	356	8.27	210	178	80	12	1-3/8*	M36	17.32	440	17.52	445
10*	250	9.49	241	17.01	432	10.04	255	297	135	16	1-3/8*	M36	19,29	490	18.48	495
12*	300	1.5	282	19.49	495	11.81	300	465	212	20	1-3/8*	M36	22.05	560	27.24	565
14"	350	14.П2	356	20.47	520	12.R	325	737	335	20	1-1/2*	M39	25.39	545	25.78	655
16*	400	15.12	384	72.52	572	14.96	380	889	395	20	1-5/8*	M42	26.97	885	27.36	695
18"	450	17.76	451	25.04	636	16.73	425	1320	600	20	1-7/8*	M48	31.1	790	31.5	000
20*	500	17.76	451	27.4	696	10.7	475	1782	810	20	2'	M52	31.69	510	32.28	020
24"	800	19,49	495	32.87	835	22.44	570	2266	1030	20	2 1/2*	M64	37.2	345	37.6	955
28*	700	22.01	569	37.17	944	28.38	670	3190	1450	20	3'	M78	41.34	1053	41.73	1080
30"	750	22.01	559	39.69	- 008	28.15	715	40C4	1820	20	3'	M76	41.73	1080	42.13	1070
32*	90C	22.01	569	42.13	-07C	29.92	760	4620	2100	20	3 1/4"	M82	4.33	110	43.7	1110
38'	900	27.8	701	47.17	198	33.88	880	7150	3250	20	3 1/2"	M88	50.39	1280	50.79	1290

Dimensions & Weights - Wafer Type - ASME Class 1500

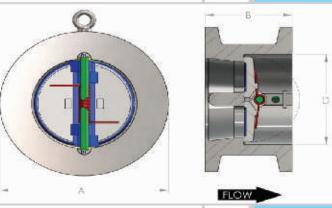
20	SIZE		D MENSIONS							1	STUD DETAILS						
012	4E	E	30	, A	ξ	[)))	WE		- Marco	DIAM	ETER	STUDI-P	AG TH IE-	STUDLEN	GIH (BIJ)	
NPS	DN	in	mm	іп	mm	in	mm	Los	Kga	No.	in	mm	in	חוד	in	mm	
2"	50	2.76	70	5.51	140	2.17	55	5	2.2	8	7/8	M24	8.86	225	9.06	230	
2-1/2*	65	3.27	63	6.38	162	2.68	68	7	3.1	8	11	M27	9.84	250	10.04	255	
3"	80	3.27	63	9.77	172	3.23	82	9	4.3	8	7/8	M24	10.63	270	10.83	276	
4 ¹⁰	100	4.02	102	8.19	208	4.25	103	14	6.3	8	1-1/4"	M3S	12.2	310	12.4	315	
5^{n}	125	4.33	110	10.12	257	5.12	130	18	8.4	8	1-1/2"	M39	14.57	370	14.76	375	
8 ¹¹	150	6.26	159	11.06	281	5.91	150	28	12.6	12	1-3/8"	M36	16.93	430	17.32	440	
8"	200	8.1	206	13.78	350	7.87	200	53	24	12	1-5/8"	M42	20.08	510	20.47	520	
10*	250	9.76	248	17.05	433	9.84	250	88	40	12	1-7/8*	M48	23.82	600	24.02	610	
12*	300	12.01	305	20.39	518	11.81	300	145	66	16	2'	Mo2	27.36	695	27.95	710	
14*	350	14.02	356	22.68	576	12.6	320	183	83	16	2-1/4*	Mp6	30.51	775	31.1	790	
16*	400	15.12	384	25.2	E40	14.17	360	224	102	16	2-1/2*	M64	33.46	850	84.25	870	
18*	450	18.43	468	27.68	703	16.54	420	273	124	16	2-3/4*	M70	38.19	970	38.98	990	
20*	500	20.98	533	29.69	754	18.5	470	330	150	16	3'	M76	42.52	1080	43.31	1100	
24*	SHO	22.01	559	35.35	898	22.44	570	447	203	16	3-1/2*	M88	46.85	1193	47.64	1210	

Dimensions & Weights - Wafer Type - ASME Class 2500

(212	752 3	20 50	-	D MEN	SIONS	VI 30	-	14751	out		STUD CETAILS						
SI2	2E -	E	3्	F	4	1	2	1 WE	GHT	Mar	DIAM	ETER	STUD LENGTH (F.F.		STUD LENGTH (RTJ)		
NPS	DN	in	(1)(1)	irı	111011	ir:	пш	Lus	Kgs	No.	in	ILILI	in	DUD.	in	mm	
2"	50	2.76	70	5.63	143	2.17	55	5	2.2	8	12	M27	10.04	255	10.24	260	
2-1/2*	65	3.27	83	8.34	166	2.69	60	7	3.1	8	1-1/8*	M30	11.42	290	11.81	300	
3"	80	3.39	86	7.64	194	3.23	52	.9	4.3	8	1-1/4"	M33	12.6	320	12.90	330	
4"	100	4.13	105	9.13	232	4.25	108	14	6.3	8	1-1/2"	M39	14.57	370	14.96	380	
5"	125	4.33	110	10.91	277	5.12	130	18	8.4	8	1-3/4*	M45	16.54	420	17.13	435	
6"	150	6.26	159	12./4	316	6.1	135	28	12.6	8	2'	M52	20.28	515	20.87	530	
8"	200	8.11	206	15.2	386	6.07	205	53	24	12	2'	M52	23.62	300	24.41	620	
10"	250	10	254	18.7	475	9.65	245	68	40	12	2-1/2"	M64	29.53	750	30.51	775	
12"	300	12.01	305	21.67	<u>548</u>	11.42	290	145	GG	12	2-3/4"	M70	33.00	95 <u>5</u>	34.84	885	



	1		
Dual plate check valves, Wafer type,	1	A	
Retainer less design, Spring loaded,	1		48
Horizontal or Vertical positions.	1		1
	1		



Construction:

1000			
134	ma	nch	ons
-	1110	1.21	0115

Face to Face	API 6A
End Flange	API 6A
Rating	API 6A Class 2000-5000

Dimensions & Weights - Wafer Type - API 6A Class 2000

SIZE			DIMEN	SIONS	72 36			0. ET 2	STUD DETAILS								
GIZE	1	1	- f	۱.	D		WEIG-IT		No.	DIAM	LTLB	STUD LONGTH (ET)		STUD LENGTH (PTJ)			
NPS	In	mm	IB	P* 13	in	31111	Lbs	Kgs	No.	ur.	mm	111	mm	in	m 11		
2-1/16*	6.5	165	2.26	60	2.36	60	18	8.1	8	5/8"	M16	3.27	83	3.74	95		
2.9/161	7.52	191	2.64	67	2.87	73	28	12.9	8	3/4*	M20	3.74	95	4.02	102		
3-1/81	B.27	210	2.87	73	2.91	74	33	14.8	8	3/4*	M20	3.74	95	4.25	108		
4-1/16*	10.75	273	3.11	18	4.49	14	90	41	8	7/8*	M24	4.25	108	4.76	121		
5-1/8	12.99	330	4.02	102	5.65	141	130	59	8	1'	M27	5	127	5.24	133		
7-1/16*	14.02	356	5.39	137	5.61	16B	189	77	12	12	M27	5	127	5.51	140		
9*	16.5	418	6.5	165	8.62	219	3.2	143	12	1-1/8"	MSU	5.75	146	5.98	152		
11	20	508	8.39	213	10.75	273	517	235	10	1-1/4*	M33	0.26	169	0.73	171		
13-5/8"	22.01	559	9.02	229	12.78	324	552	251	20	1-1/4'	M33	0.5	165	8.73	171		
16-3/4*	27.01	686	12.01	305	15.98	406	1012	450	20	1-1/2'	M39	7.52	131	7.76	197		
20-3/4*	32.01	813	14.49	368	20	508	1694	770	24	1-5/8'	M42	8.27	21C	9.02	229		

Dimensions & Weights - Water Type - API 6A Class 3000

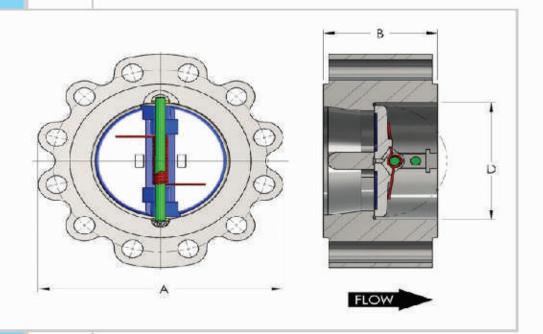
SIZE	9		DIMEN	SIONS			13/01	G-П	STUD DETAILS								
aize	1	1	P	1	L)	23911	9-11 ×	1986	DIAM	LIEN	STUD LE	ICTL HERE	STUD LON	ICTEL INFO		
NPS	in	mm	іп	г [.] П	in	11111	Lbs	Kga	No.	ir.	mm	in	mm	in	m		
2 1/16*	8.5	216	2.76	70	2.36	60	40	18	8	7/8*	M24	4.25	108	4.76	121		
2-9/16*	9.6*	744	3.27	83	2.87	73	88	30	8	1"	M27	4.78	121	5.24	133		
8-1/8"	9.49	241	3.27	83	2.91	/4	64	29	8	7/8*	M24	4.02	102	4.49	114		
4-1/16*	11.5	292	4.02	102	4.49	- 14	99	45	- 8	1-1/8'	M30	5	127	5.61	140		
5 1/8"	13.74	349	5.24	133	5.66	141	191	87	8	1 1/4'	M33	5.51	140	5.98	152		
7-1/16*	15	381	8.26	159	5.61	188	257	117	12	1-1/8'	M30	5.24	133	5.75	146		
9.	18.5	470	8.11	206	5.62	219	182	2.9	12	1-3/8'	MS6	6.26	168	6.73	1/1		
11'	21.5	546	9.49	241	10.75	273	720	330	16	1-3/8'	M36	6.5	165	7.01	178		
13-5/8*	24.02	61C	11.5	292	12.78	324	770	350	26	1-3/8'	M36	6.73	171	7.24	184		
16-3/4*	27.76	/06	16.12	384	15.98	406	1210	550	20	1-5/8'	M42	1.16	187	8.5	216		
20-3/4*	33.74	867	17.70	761	20	508	3865	1757	20	2"	M51	9.25	235	-0	25/		

Dimensions & Weights - Wafer Type - API 6A Class 5000

SIZE		DIMENSIONS						WEIGHT		STUD DETAILS								
aize	E E	1	A		U		376155 11		Ma	DIAMETER		STUD LENGTH IRFI		STUD LENGTH (RTJ)				
NPS	in	mm	in	FT	in	ΠΠ	Lbs	Kgs	No.	1	mm	in	mm	іп	пп			
2 1/161	8.5	216	2.76	70	2.36	60	37	17	8	7/8*	M24	4.25	108	4.76	121			
2-9/16*	9.6*	244	3.27	83	2.87	73	66	30	8	1.	M27	4.76	121	5.24	133			
3-1/8"	10.51	267	3.27	ĉŝ	2.91	74	68	31	8	1-1/8'	M30	5.24	133	5./e	146			
4 1/16*	12.24	311	4.02	102	4.40	- 14	154	70	8	1 1/4'	M33	5,98	162	8.26	150			
5-1/81	14.76	375	5.24	133	5.55	141	231	105	8	1-1/2'	M39	7.24	184	7.76	197			
7-1/16*	15.51	394	5.26	159	5.61	168	268	122	12	1-3/8"	M36	1.24	184	7.76	197			
9'	19.02	483	8.11	206	8.62	219	927	265	12	1-5/8'	M42	8.27	210	9.02	229			
11'	22.99	584	9.76	248	10.75	273	732	380	12	1.7/6'	M48	9.49	241	10.24	260			



SOLID LUG DUAL PLATE CHECK VALVE



Construction: Dimensions	Dual plate check valves, Lug type, Retainer less design, Spring loaded, Horizontal or Vertical positions.
Face to Face	ASME B16.10
End Flange	ASME B16.5*
Rating	ASME Class 150-2500

*26" and larger are available with ASME B16.47 end flanges, either Series A or Series B (formerly MSS SP-44 and API 605.)

Dimensions & Weights - Lug Type - ASME Class 1	50
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(1)	20			DIMEN	SIONS			MIC	CH IT		S	LD DETA	ILS	
SD	a a	- I	1	1	1	C	S	evi i	GIIT	No.	DIAM	ETER	STUD LEN	GTH (AF
NPS	DN	ir	initian initia	ir	61310	j=	mm	Lbs	Kgs	110.	in	rrirri	in	mm
1 1/2'	40	2.38	60	5	127	1.85	42	6	2.5	4	1/2*	M12	5.12	- 30
2.	50	2.35	60	5.98	152	2.17	55	8	3.5	4	5/8*	M16	5.51	140
2-1/2	65	2.54	67	7.91	178	2.88	68	11	5	4	5/8*	M16	5.91	150
3"	05	2.87	/3	7.48	190	3.23	82	15	- K	4	5/8"	M16	6.3	160
4"	100	2.87	73	9.02	229	4.25	108	22	10	8	5/8"	M16	0.09	170
5*	125	3.39	88	10	254	5.12	130	30	13.5	8	3/4*	M20	7.40	190
3.	150	3.66	98	10.98	279	6.5	165	44	20	8	3/4*	M20	8.07	205
8*	200	5	127	13.5	343	8.66	220	85	38.5	8	3/4"	M20	9.45	240
10*	250	6.75	146	15.98	406	10.63	270	150	68	12	//8/	M24	0.63	2/0
12*	300	7.13	181	18.52	478	12.6	320	253	115	12	7/8'	M24	12.2	310
14"	360	7.24	184	20.98	533	13.78	350	341	155	12	-1*	M27	12.8	325
16*	400	7.52	191	23.5	597	15.75	400	477	192	18	٦.	M27	10.39	340
18*	450	7.99	203	25	635	17.24	438	717	328	* 8	1-1/8*	M30	14.37	365
20"	a00	8.62	219	27.28	693	19.49	495	627	285	20	1-1/8*	M30	15.18	385
24"	600	8.74	222	31.89	810	23./3	595	847	385	20	1-1/4*	M33	15.94	405

SOLID LUG DUAL PLATE CHECK VALVE



Dimensions & Weights - Lug Type - ASME Class 300

SIZ	70			DIMEN	SIONS			WED	out	·	5	UD DETA	LS	
312		E	3	1	V	0)		an	(hist)	MAIC	EER	STUD LEN	IGTH (RF)
NPS	11N	in	າາຫ	in	mm	in	mm	Tbs	Kgs	Nc.	in	mm	in	mm
1/2*	40	2.38	8C	6.14	156	1.85	42	7	3	4	3/4*	M20	6.3	160
2"	50	2.36	60	6.38	162	2.17	- 55	9	4.2	В	5/8"	M16	6.1	165
2-1/2*	fiò	2.64	87	7.4	188	2.68	68	15	6.8	-8	3/4*	M20	6.89	175
3'	80	2.87	73	8.19	208	3.23	82	19	8.5	8	3/4*	M20	7.48	190
4'	100	2.87	73	9.53	242	4.25	108	28	12	9	3/4*	M20	7.68	195
51	125	3.39	BG	10.98	279	5.12	130	-42	19	8	3/4*	M20	8.46	215
6'	150	3.86	98	12.05	306	6.5	165	62	28	12	3/4"	M20	9.06	230
8"	200	5	127	14.72	374	8.66	220	128	58	12	7/8*	M24	11.02	280
10'	250	5.75	148	17.24	438	10.63	270	202	92	16	11	M27	12.4	315
12.	300	7.13	181	20.16	512	12.6	320	337	153	16	1-1/9"	M30	14.37	365
141	350	8.74	222	22.72	577	13.5	343	484	220	20	1-1/8"	MSC	16.14	410
161	400	9.13	232	23.07	586	15.75	400	882	-810	20	1-1/4"	M33	17.13	435
181	450	10.39	264	27,24	592	17.24	438	858	390	24	1-1/4"	M33	18.7	475
20'	500	11.5	292	29.61	752	19.49	495	1254	670	24	1-1/4"	M33	20.08	510
24'	600	12.52	318	31.89	910	23.43	595	1672	760	24	1-1/2"	M38	22.05	560

Dimensions & Weights - Lug Type - ASME Class 600

SIZ	70			DIMEN	SIONS			WER	PLUT:			S	FUD DETAI	LS		
312		E	}	A)	1 WEP	oni.	ble.	DIAM	ETER	STUD LEN	IGTH (BF)	STUD LEN	GTH (PTJ)
NPS	DN	in	mm	in	mm	in	mm	Lbs	Kgs	No.	in	mm	in	mm	іп	mm
2*	50	2.36	80	6.38	162	2.17	hb	9	4.2	Х	5/8 ^r	M16	6,89	175	7.09	180
2-1/2	65	2.64	67	7.68	195	2.68	68	15	6.8	Ð	3/41	M20	7.69	195	7.87	200
3*	83	2.87	73	8.19	208	3.23	62	19	8.5	θ	3/41	M20	8.27	210	8.46	215
4*	100	3.11	79	10.24	260	4.25	108	37	17	8	7/81	M24	9.25	235	9.45	240
5*	125	4.13	105	11.02	280	5.12	130	59	27	8	1"	M27	11.02	280	1.22	285
6*	150	5.35	138	13.46	342	6.5	185	112	51	12	1"	M27	12.8	320	12.8	325
8*	200	6.5	185	15.75	4CO	8.27	210	200	91	12	1-1/8'	M30	14.57	370	*4.76	375
10'	250	8.39	213	19.21	188	10.04	255	411	187	10	1-1/4'	M33	17.32	140	17.52	445
121	300	9.02	229	21.81	5E4	11.81	300	£04	229	20	1-1/4	M3S	18.11	460	18.31	485
14'	350	10.75	273	22.6	574	13.19	335	823	374	20	1-3/8'	M36	20.47	520	20.67	525
16'	400	12.01	305	26.48	672	15.16	395	- 148	522	20	1 1/2'	M39	22.64	575	22.83	590
18'	450	17.26	362	28.58	726	17.13	435	1430	650	20	1-5/8'	M42	25.59	050	25.79	655
201	500	14.49	368	31.5	800	19.17	487	1474	670	24	1-5/8'	M42	26.38	870	26.77	680
221	5CO	17.24	438	36.3	922	23.03	585	1716	780	24	1-7/8'	M48	30.71	780	31.1	790

Dimensions & Weights - Lug Type - ASME Class 900

207	71-			DIMEN	SIONS			WEI	our l			S	LOD DETAI	18		
SIZ	CE .	E	3	A		1)	1 WEF	GHI	N.L.	DIAM	ETER	STUD LEN	IGTH (BF)	STUDIEN	GTH (FTJ)
NPS	DN	іп	mm	in	mm	in	rrirri	Lbs	Kgs	No.	in	mm	in	רחוד	in	rtirti
2*	50	2.76	70	8.27	210	2.17	55	26	2	8	7/81	M24	8.88	225	9.06	230
2-1/21	65	3.27	83	9.21	234	2.68	68	33	15	8	4.0	M27	9.84	250	10.04	255
3.	80	3.27	03	9.21	234	3.23	02	42	19	0	7/01	M24	9.45	240	9.65	245
4.	100	4.02	102	11.5	292	4.25	108	75	34	8	1-1/8'	M30	11.22	285	1.42	290
5"	125	4.33	110	13.19	335	5.12	130	123	56	8	1-1/4	M33	12.2	310	12.4	3.2
6*	150	6.26	159	14.96	380	6.3	180	180	82	12	1-1/8'	M30	14.37	365	14.57	370
8*	200	8.11	208	18.03	458	8.27	210	352	160	12	1-3/8'	M36	17.32	440	*7.52	445
10'	250	0.49	241	20.87	530	10.04	255	694	270	10	1-3/8'	M36	19.29	400	10.40	495
121	300	11.5	292	23.39	594	11.81	300	\$33	424	20	1-3/8'	M36	22.05	560	22.24	565
141	350	14.02	356	24.61	625	12.8	325	*474	670	20	1-1/2'	M39	25.39	845	25.79	655
16'	400	15.12	384	27.24	692	14.96	380	*738	790	20	1-5/8'	M42	26.97	688	27.36	695
18'	450	17.76	451	30.31	770	16.73	425	2640	1200	20	1-7/8'	M48	31.1	790	31.5	800
20'	500	17.76	451	33.07	840	19.7	476	3564	1620	20	2'	MS2	31.89	810	32.28	820
241	800	19.49	495	39.76	1010	22.44	570	4532	2060	20	2-1/2'	M64	37.2	945	37.6	955

SOLID LUG DUAL PLATE CHECK VALVE



Dimensions & Weights - Lug Type - ASME Class 1500

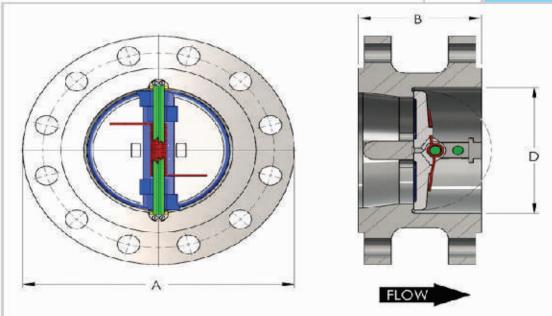
P.P	ZE		DIMENSIONS						GHT	STUD DETAILS								
SI.	2E	E	3	J +	A		D		GHI	S No.	DIAMETER		STUD LENGTH (RF)		STUD LENGTH (RTJ)			
NPS	DN	in	mm	in	mm	in	mm	Lbs	Kgs	No.	in	mm	in	mm	in	mm		
2'	50	2.78	70	8.27	210	2.17	55	28	12	8	7/8*	M24	9.96	225	9.08	230		
2-1/2*	65	3.27	83	9.21	234	2.68	68	53	27	8	11	M27	9.84	250	10.04	255		
3'	80	3.27	- 53	10.04	255	3.23	82	70	32	8	7/8*	M24	10.63	270	10.83	275		
4'	100	4.02	102	11.5	202	4.25	108	132	60	8	1-1/4"	M33	12.2	310	12.4	315		
5'	125	4.33	110	13.98	355	5.12	130	229	104	8	1-1/2"	M39	14.37	365	14.76	375		
6'	150	6.28	159	15.2	396	5.91	150	286	130	12	1 3/81	M36	16.93	430	17.32	443		
- 8	200	8.11	206	18.7	475	7.87	200	5/6	248	12	1-5/8"	M42	20.08	510	20.47	520		
10*	250	9.78	248	22.24	565	9.84	250	981	446	12	1-7/8"	M48	23.62	600	24.02	610		
12"	300	12.01	305	25.98	860	11.81	300	1738	790	16	2'	M52	27.36	695	27.95	710		

Dimensions & Weights - Lug Type - ASME Class 2500

	ZE	10000		DIMEN	SIONS			WEI	CUIT	83		S	TUD DETAI	LS			
50	4E	B		A		D] """"	GHT	N.A.	DIAM	DIAMETER		STUD LENGTH (RF)		STUD LENGTH (ITTJ)	
NPS	DN	in	mm	in.	(110)	in	mm	Lbs	Kgs	NO.	in	:11(1)	in.	rum	in	mm	
2'	50	2.76	70	8.86	225	2.17	55	40	18	8	1'	M27	10.04	255	10.24	260	
2-1/2"	65	3.27	83	10.04	255	2.68	68	53	24	8	1-1/8"	M30	11.42	290	11.81	300	
3'	80	3.39	56	11.42	290	3.23	82	70	32	8	1-1/4"	M33	12.6	320	12.09	330	
4'	100	4.13	105	13.58	345	4.25	108	132	-60	8	1-1/2"	M39	14.57	370	14.96	380	
5'	125	4.33	110	15.60	402	5.12	130	229	104	8	1-3/4"	M45	16.54	420	17.13	435	
6'	150	6.20	159	17.8	462	6.1	155	286	130	8	2'	M52	20.28	516	20.87	630	
8'	2110	8.11	208	20.87	525	8.07	205	546	248	12	2'	M52	23.62	600	24.4*	620	
10*	250	10	254	25.30	845	9.66	245	961	448	12	2-1/2"	M84	29.53	750	30.51	775	
12*	300	12.01	305	28.74	730	11.42	290	1738	790	12	2-3/4"	M70	33.66	856	34.84	885	

DOUBLE FLANGE TYPE DUAL PLATE CHECK VALVE





Construction: Du

Dual plate check valves, Flange type, Retainer less design, Spring loaded, Horizontal or Vertical positions.

Dimensions

Face to Face	ASME B16.10
End Flange	ASME B16.5*
Rating	ASME Class 150-2500

*26" and larger are available with ASME B16.47 end flanges, either Series A or Series B (formerly MSS SP-44 and API 605.)

Dimensions & Weights - Flange Type - ASME Class 150

- 201	a.:	2. vz		DIMEN	SIONS				annes - S		81	UD DE1A	LS	
- Oi	ZE	1			4)	- WEI	uni s	1	DIAM	ETER	STUD LEN	GTH (RF)
NPS	DN	3	mm	in	mm	іп	mm	Lios	Kgs	No.	in	67	in	mm
8.	200	5	127	13.5	343	5.68	220	68	31	3	3/4*	M20	4.72	120
10'	250	a.75	146	15.98	405	10.63	270	114	52	12	7/8	M24	5.S1	135
12'	300	7.13	181	19.02	483	12.6	320	189	86	12	7/8*	M24	6.81	135
14'	350	7.24	184	20.99	\$33	13.78	350	238	108	12	1*	M27	5.71	145
16'	400	7.52	191	23.5	597	15.75	400	293	133	16	1.	M27	5.91	150
18	450	7.99	203	25	635	17.24	438	354	161	16	1-1/8'	M30	6.3	160
20	500	2.62	219	27.52	699	19,49	195	429	195	20	1-1/8'	M30	6.5	165
24	600	8.74	222	32.01	513	23.43	595	579	263	20	1-1/4'	M33	7.09	180
20.1	700	12.01	305	38.5	927	26.97	605	1087	494	28	1-1/4	M33	9.06	230
30 '	750	12.01	305	38.74	984	28.94	735	1179	536	28	1-1/4	M33	9.45	240
32 '	800	12.01	305	41.73	1060	30.71	780	1669	764	28	1-1/2	M39	10.43	265
36'	900	14.49	365	45.08	1168	34.45	875	1901	864	32	1 1/2	M39	11.22	285
401	1000	17.01	432	50.75	1289	38.39	975	2517	1144	38	1-1/2	M39	11.22	285
42 '	1050	17.01	432	52.99	1346	40.16	1020	2853	1297	3/6	1-1/21	M39	11.61	295
48*	1200	20.03	524	59./9	1011	45.87	1.62	4204	1911	44	1-1/21	M39	2.6	320
54*	- 350	22.36	565	66.26	1683	51.97	1320	6006	2730	44	1.3/4'	M45	14.17	360
60*	1500	24.78	829	72.99	1854	57.48	1480	8437	3835	52	1-3/41	M45	15.16	385

DOUBLE FLANGE TYPE DUAL PLATE CHECK VALVE



Dimensions & Weights - Flange Type - ASME Class 300

e.	ZE		300-	DIMEN	SIONS			V.C.	OUT		S	TUD DETA	ILS	
5	ZE	ji		1	-	1 1	2	WE	GHI		DIAM	ETER	STUD LEN	GTH (RF)
NPS	DN	ir	ຕາກ	n	mm	in	mm	Lbs	Kgs	Na.	ir	mm	in	mm
12*	300	7.13	181	20.51	521	12.6	320	231	1115	1 0	1-1/81	MSO	7.08	180
14"	350	8.74	222	22.93	584	13.5	343	334	152	20	1-1/B	M30	7.28	185
16*	400	9.13	232	25,51	648	15.75	400	451	205	20	1-1/4	M33	7.07	200
18"	450	10.39	264	27.93	711	*7.24	435	572	280	24	1 1/4	M33	8.27	210
20*	600	11.5	292	30.51	775	19.49	495	814	370	24	1-1/4	M23	8.46	215
24"	600	12.52	318	35.99	914	23.43	695	1097	494	24	1-1/2'	M39	9.15	240
28"	700	14.79	368	40.75	1035	26.97	685	167/	761	28	1-5/8'	M42	11.02	280
30"	760	14.49	368	42.99	1092	28.94	735	1991	905	28	1-3/4	M45	11.8	300
32*	800	14.49	368	45.24	1149	30.71	780	2820	1282	28	1-7/8	M48	13.19	335
36*	900	19.02	483	50	1270	34.45	875	2060	1391	-32	22	M51	13.58	345
40*	1000	22.36	588	48.74	1239	38.39	975	3775	1716	32	1 5/8'	M42	13.39	340
42"	1050	22.36	568	60.73	1289	40.18	1020	4290	1950	-32	1 5/8'	M42	13.78	350
<8.	1200	24.76	629	67.76	1467	45.87	1165	6435	2925	32	1-7/8'	M48	15.35	390
54"	1350	25	635	65.24	1657	31.97	1320	9610	4368	28	2-1/4	MS7	18.11	460
80'	1500	27.6	701	71.26	1810	57.48	1480	12854	5752	32	2-1/4'	M57	18.9	480

Dimensions & Weights - Flange Type - ASME Class 600

Ċ1	/F		601	DIMEN	SIONS			WED	044			S	TUD DETAI	LS .		
51				н		1)	W P	GHT	No.	DIAM	FTFR	STUD LENGTH (RP)		STUD LEN	GTH (FTJ)
NPS	DN	in	mm	in i	mm	in	mm	Los	Kgs	SPAD	in	mm	2	mm	ir)	mm
12'	300	9.02	229	22.01	569	11.81	300	352	160	20	1 1/4"	M33	8.86	220	9.56	225
14'	350	10.75	273	23.74	603	13.19	335	570	262	20	1-3/8*	M36	0.25	236	9.45	240
16'	400	12.01	305	27.01	686	15.10	385	803	365	20	1-1/2"	M39	10.04	256	10.24	260
18'	450	14.25	362	29.25	743	17.13	435	* 124	511	20	1-5/8*	W42	10.83	276	11.02	280
20'	500	14.49	368	32.01	813	19.17	487	397	635	24	1-5/8*	M42	11.22	28£	11.42	290
24'	600	17.24	438	37.01	940	23.03	585	2171	987	24	1-7/8*	M48	12.99	330	13.19	335
28'	700	19.68	505	42,24	1073	28.97	885	3065	1393	28	2"	M51	14.*7	360	14.37	365
30'	750	19.60	505	44.49	1130	28.94	735	3634	1652	28	2"	M51	14.37	365	14.57	370
32'	800	10.88	505	47.01	1194	30.71	780	5159	2345	28	2-1/4"	M57	15.16	385	15.35	390
36'	900	25	635	51.73	1314	34.45	875	6499	2954	28	2-1/2*	M04	16.54	420	16.54	420
40'	.000	27.6	701	52.01	1321	38.39	975	6915	3143	32	2-1/4*	M57	18.6	170	18.5	470
42'	1850	27.6	701	55.24	1403	40.18	1028	7854	3570	28	2-1/2"	M64	20.08	510	20.08	510
48'	.500	30.98	/8/	57.76	1487	45.87	1165	11/96	5362	32	2-3/4*	M7U	22.24	565	22.24	565

			_						214	en inventori	ALLA 24 2 44	ging		JWW I	When the	
SI	ZE	L		DIMENSIONS L II D			WEI	GHT	210	S DIAMETER		TUD DE TAILS STUD LENGTH (BP)		STUD LENGTH (FT.)		
NPS	DN	in	11011		11111	in		Lbs	Kgs	No.	in	mm	1	area.	in	a.u.
12'	300	11.3	292	24.02	610	11.81	300	65-	296	20	1-3/8*	M36	10.04	255	10.24	260
14'	350	14.02	356	25.2	640	12.8	325	1032	469	20	1-1/2*	M39	11.02	28C	11.22	285
16'	400	15.12	384	27.76	705	14.96	380	217	553	20	1-5/8"	M42	11.61	295	11.81	300
18'	450	17.76	451	30.91	785	16.73	425	848	84C	20	1-7/8*	M48	13.19	33t	13.39	340
20'	500	17.76	45*	33.86	855	18.7	4/5	2485	1134	20	2'	M52	14.17	360	14.37	365
24'	603	19.49	495	40.94	1040	22.44	570	3172	1442	20	2-1/2*	M64	17.72	450	17.91	455
25'	700	22.01	559	45.90	1180	28.39	870	4466	2030	20	Э"	M76	18.9	400	19.09	405
30'	750	22.01	669	48.6	1232	28.15	715	5806	2548	20	3'	M76	19.69	500	19.85	505
32'	800	22.01	669	61.38	1559	29.92	760	6468	2940	20	3-1/4"	MB2	21.06	536	21.26	540
36'	900	27.6	701	57.48	1460	33.86	860	10010	4550	20	3-1/2*	M88	22.44	570	92.64	576

Dimensions & Weights - Flange Type - ASME Class 900

PRESSURE TEMPERATURE RATINGS



ASME B16.34-2009

			CO	LD WOR	KING PRE	SSURE,	psig			
CLASS	TEMP "F	A216 WCB A105 & LF2	A352 LCC	A217 WC6 A182 F11	A217 WC9 A182 F22	A217 C5 A182 F5	A217 C12 A162 F9	A351 CFB A182 F304	A351 CF8M A182 F316	A352 CN7M
	20 to 100	265	290	290	290	290	290	275	275	235
Ĵ.	200	280	283	280	260	260	28C	230	235	200
	300	250	230	230	230	230	230	205	205	180
	400	200	200	200	200	200	200	190	190	160
	600	170	170	170	- 70	170	170	170	170	150
	600	140	142	14C	-40	140	140	140	140	140
	650	125	125	125	- 25	125	125	125	125	
	700	1°C	110	1°C	- 10	110	110	110	110	
l i	750	85	95	95	.95	85	95	95	35	
	800	05	0.8	08	80	ēC	80	60	- 80	
	850	65	65	65	65	35	65	65	35	
	900	50	50	50	50	5C	50	50	50	
150	950	35	35	35	35	35	35	35	35	
1	1000	20	20	20	25	20	20	23	20	2
1	1050			20 (a)	20 (u)	20 (a)	20 (a)	20(a)	20(a)	
	- 100			20 (a)	20 (a)	20 (a)	20 (9)	20(a)	20(a)	
	1150			20 (a)	20 (u)	20 (6)	20 (a)	20(a)	20(a)	-
	-200		-	15 ⟨a⟩	15 (a)	15 (a)	20 (a)	20(a)	20(a)	
	1250							20(a)	20(a)	
8	1300					<u>.</u>		20(u)	20(a)	
1	10.50			<u>.</u>		<u>.</u>		20(a)	20(a)	
1	* 400					-	t d	20(a)	20(a)	2
1	- 450					4		20(a)	25(a)	
	- 500					÷		15(a)	15(a)	2
	300					1017.05				
CLASS	TEMP 'F	A216 WCB A105 & LF2	A352 LCC	A217 WC6 A182 F11	A217 WC9 A182 F22	A217 C5 A182 F5	A217 C12 A182 F9	A351 CF8 A182 F304	A351 CFBM A182 F316	A352 CN7M
1	-20 to 100	/40	750	750	750	700	790	/20	720	600
3	200	680	750	750	750	750	750	8C0	620	520
	300	655	730	790	730	730	730	540	560	465
	400	635	705	895	705	705	705	495	ñ15	420
	500	605	865	665	865	365	665	465	460	390
l (0:0	570	005	665	935	305	605	440	450	060
	820	550	590	590	590	200	590	430	≤40	
	700	530	555	57¢	570	570	570	420	435	
	750	305·	505	530	5-30	330	530	415	425	
	900	410	410	510	510	510	51C	405	420	
10	850	320	3.20	465	430	485	480	305	490	
			C 0.00 - 7	1940 B	450	375	45C	390	∠15	
1.11	900	230	225	45C	430	200000				
300	900 950	230 135	225	460 320	430 385	975	375	380	365	
300		· · · · · · · · · · · · · · · · · · ·		- <u>2013</u>	2.02		375 255	380 365	365 305	1
300	950	135	. 32	3%	395	975		100.00		- - - -
300	950 1000	135	. 32	320 215	325 205	975 200	255	355	305	0 7 0 0 0
300	950 1000 1050	135	. 32	320 215 145	345 265 175	975 200 145	255 170	355 325	305 360	
300	950 1000 1050 1100	135	. 32	320 215 145 95	345 265 175 110	975 200 145 100	255 170 116	365 325 265	305 360 305	
300	950 1000 1050 1100 1100 1150	135	. 32	320 215 145 90 65	345 265 175 110 70	975 200 145 100 30	265 170 116 76	355 325 205 205	305 360 305 255	
300	950 1000 1050 1100 1100 1150 1200	135	. 32	320 215 145 90 65	345 265 175 110 70	975 200 145 100 30	265 170 116 76	305 325 205 165	305 360 305 255 185	
300	950 1000 1000 1100 1110 1150 1200 1200 1300	135	. 32	320 215 145 90 65	345 265 175 110 70	975 200 145 100 30	265 170 116 76	305 325 205 105 135 115	305 300 305 255 185 145 115	
300	950 1000 1000 11100 11100 11100 11200 1250 125	135	. 32	320 215 145 90 65	345 265 175 110 70	975 200 145 100 30	265 170 116 76	305 325 205 105 135 115 95	305 300 305 255 185 145 145 145 90	
300	950 1000 1000 1100 1110 1150 1200 1200 1300	135	. 32	320 215 145 90 65	345 265 175 110 70	975 200 145 100 30	265 170 116 76	305 325 205 105 135 115	305 300 305 255 185 145 115	



PRESSURE TEMPERATURE RATINGS

ASME B16.34-2009

			(COLD WO	ORKING F	PRESSUR	RE, psig			
CLASS	TEMP °F	A216 WCB A105 & LF2	A352 LCC	A217 WC8 A182 F11	A217 WC9 A182 F22	A217 C5 A182 F5	A217 C12 A182 F9	A351 CF8 A182 F304	A351 CF8M A182 F316	A352 CN7M
	-20 te 100	- 480	1500	1500	1500	1500	1500	1440	1440	-200
	200	1360	1900	1500	1500	1a00	1600	1200	1240	1035
	300	:1310	1455	1445	1458	1455	1465	1075	1120	930
	400	- 265	1405	1385	1410	1410	1410	995	1025	845
	500	7.205	1035	1330	1353	1335	1000	800	955	705
	000	*195	1210	1210	1210	1210	1210	385	900	720
	650	100	1175	11/0	11/0	1175	1175	805	985	
	/00	1060	1110	1130	1135	1135	1135	875	870	
	750	-015	1015	1065	1055	1065	1065	825	855	
	500	825	525	1015	1018	1015	1015	810	845	
	550	645	840	975	875	975	975	790	805	
	900	460	445	900	900	745	900	760	830	
600	950	275	2/0	640	/05	550	755	765	775	
	1000	170	. 10	430	535	100	535	/10	725	
	1050	S	229 ₁₀ C	290	350	290	315	650	720	
	1100	ç	Q	190	220	200	225	515	ē10	
	1150		÷	100	105	:25	150	410	475	
	1200		;	90	60	70	105	330	370	
	1250			~~~			100	205	295	
		6		5		<u>6</u> 2	()	1700-02	- <u>(1997)</u> 22	
	1900	ŝ	ş	6 B		16 N	;;	225	235	
	1350	8		e e		15		185	190	
	1400							150	150	
	1455							115	115	
	1500							85	85	
CLASS	TEMP "F	A216 WCB A105 & LF2	A352 LCC	A217 WC6 A182 F11	A217 WC9 A182 F22	A217 C5 A182 F5	A217 C12 A182 F9	A351 CF8 A182 F304	A351 CF8M A182 F316	A352 CN7M
	-20 lu: 100	2200	2255	2250	2250	2250	2250	2160	2180	- 800
	200	2:05	2250	2250	2250	2250	2250	1500	1850	- 865
l i	350	1965	2165	2165	2165	2165	2185	1815	1650	- 395
	400	1900	2110	2080	2115					1265
	500				321.5	2115	2115	1490	154C	1,500.07
		1810	1995	1990	1995	9115 1995	2115 1995	1490 1330	1540 1436	160
	600	1510 1705	1005 1815	1990 1815						
	600 850	8 9	id an anna an a	1210000	1995	1995	1905	1330	1436	160
	- <u>2000</u> /	705	1815	181 0	1995 1815	1995 1815	1995 1815	1300 1326	1436 1856	160
	850	705 1860	1815 1765	1815 1765	1995 1815 1785	1995 1815 1765	1005 1815 1765	1300 1329 1295	1430 1855 1825	160
	850 700	705 1650 1590	1815 1765 1665	1815 1765 1705	1005 1815 1785 1705	1995 1815 1765 1705	1005 1815 1765 1705	1330 1325 1285 1265	1430 1855 1825 1335	160
	850 700 750 900	705 - 660 - 590 - 520 - 235	1815 1765 1665 1520 1235	1815 1765 1705 1595 1525	1095 1812 1785 1705 1595 1595	1995 1815 1765 1705 1795 1595	1005 1815 1765 1705 1595 1525	1339 1329 1285 1285 1285 1285 1240	1430 1855 1825 1825 1825 1950 1950	160
	880 700 750 900 850	705 - 680 - 590 - 590 - 520 - 235 - 235 - 055	1815 1765 1685 1620 1520 1235 955	1810 1765 1703 1595 1595 1595 1460	1095 1813 1785 1705 1595 1595 1595 1490	1005 1815 1765 1705 1595 1525 1625	1005 1815 1765 1705 1595 1595 1525 1460	1330 1329 1285 1265 1265 1240 1240 1215 1290	1430 1855 1828 1335 1950 1955 1955	160
900	880 700 750 800 850 800	705 - 680 - 580 - 520 - 520 - 535 065 690	1815 1765 1685 1520 1235 950 670	1819 1765 1703 1595 1595 1595 1460 1390	1095 1815 1785 1705 1595 1595 1490 1890	1005 1815 1765 1705 1595 1525 1400 1120	1005 1815 1765 1705 1595 1595 1525 1460 1390	1330 1325 1285 1265 1265 1240 1240 1215 1290 1265	1430 1855 1825 1335 1950 1955 1255 1245	160
900	850 700 750 600 850 900 850	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1819 1766 1705 1595 1595 1490 1590 955	1095 1818 1788 1705 1595 1695 1490 1895 1490	1005 1815 1765 1705 1595 1525 1400 1120 823	1005 1815 1765 1705 1595 1595 1525 1460 1350 1350	1330 1329 1285 1265 1265 1240 1215 1265 1265 1265 1165	1430 1855 1825 1335 1950 1950 1955 1245 1245 1245	160
900	880 700 750 600 850 900 860 1000	705 - 680 - 580 - 520 - 520 - 535 065 690	1815 1765 1685 1520 1235 950 670	1819 1766 1705 1595 1595 1460 1380 855 655	1005 1813 1785 1705 1595 1595 1490 1990 1990 1160 500	1005 1815 1765 1705 1595 1595 1595 1460 1120 826 565	1905 1815 1765 1705 1595 1595 1460 1350 1130 750	1330 1329 1285 1265 1265 1240 1215 1240 1245 1290 1165 1145 1065	1430 1855 1825 1335 1250 1255 1255 1245 1150 1050	160
900	880 750 950 850 850 850 850 1005 1055	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1810 1765 1705 1595 1595 1490 1300 955 650 480	1095 1813 1785 1795 1595 1595 1460 1990 1160 500 525	1995 1815 1765 1705 1595 1595 1460 1120 825 595 430	1005 1815 1765 1705 1595 1595 1460 1390 1130 750 515	1339 1329 1285 1265 1265 1240 1215 1240 1245 1265 1145 1065 975	1430 1855 1825 1335 1250 1265 1255 1248 1150 1050	160
900	850 750 900 850 900 860 1005 1055 1105	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1819 1765 1705 1595 1595 1460 1590 955 655 655 430 285	1005 1813 1785 1705 1595 1595 1490 1595 1490 1595 1160 505 505 300	1005 1815 1765 1705 1595 1525 1460 1120 825 595 430 300	1005 1815 1765 1705 1595 1595 1460 1390 1130 780 515 340	1330 1329 1285 1265 1265 1240 1215 1240 1245 1240 1265 1145 1065 975 770	1430 1855 1825 1335 1255 1255 1255 1240 1150 1050 915	160
900	850 750 500 850 900 850 1005 1005 1100 1160	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100	1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300	1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6	1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225	1330 1329 1285 1265 1240 1240 1240 1240 1245 1240 1245 1245 145 145 145 145 165 975 770 015	1430 1855 1828 1335 1265 1265 1255 1255 1255 1255 1255 125	160
90.0	880 700 750 800 800 900 900 900 900 1000 1000 1000	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1819 1765 1705 1595 1595 1460 1590 955 655 655 430 285	1005 1813 1785 1705 1595 1595 1490 1595 1490 1595 1160 505 505 300	1005 1815 1765 1705 1595 1525 1460 1120 825 595 430 300	1005 1815 1765 1705 1595 1595 1460 1390 1130 780 515 340	1330 1329 1285 1265 1265 1240 1215 1240 1245 1240 1245 1245 1245 1245 145 1265 975 770 615 795	1430 1855 1825 1335 1250 1255 1255 1255 1255 1255 1255 125	160
900	880 700 750 800 850 800 800 1005 1005 1005 1100 1150 1200 1250	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100	1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300	1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6	1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225	1330 1329 1285 1285 1285 1240 1245 1240 1245 1245 1245 1245 1245 1245 1245 1245	1430 1855 1825 1335 1255 1255 1255 1255 1255 1255 12	160
900	880 700 750 800 850 800 880 1005 1005 1105 1105 1	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100	1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300	1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6	1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225	1330 1329 1285 1265 1265 1240 1215 1240 1245 1240 1265 1145 1065 975 770 015 795 200 340	1430 1855 1825 1335 1250 1255 1255 1255 1255 1255 1255 125	160
90-0	850 750 900 900 900 960 1005 1005 1100 1100 1100 1200 1250 1300	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100	1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300	1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6	1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225	1330 1329 1285 1265 1265 1240 1240 1240 1265 1145 1065 975 770 615 795 200 340 260	1436 1855 1825 1335 1250 1265 1265 1265 1265 1265 1265 1265 1265	160
90.0	850 750 500 500 850 900 880 1005 1005 1100 1160 1200 1250 1300 1400	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100	1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300	1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6	1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225	1330 1329 1285 1265 1265 1240 1215 1240 1240 1245 1240 1245 1240 1265 975 770 015 705 200 340 260 225	1430 1855 1825 1925 1255 1255 1255 1255 1255 1255 12	160
900	850 750 900 900 900 960 1005 1005 1100 1100 1100 1200 1250 1300	705 - 550 - 550 - 520 - 335 - 335 - 055 - 690 - 210	1815 1765 1665 1520 1235 950 870 410	1819 1765 1703 1595 1595 1460 1390 855 655 430 280 280 100	1995 1813 1785 1705 1595 1695 1490 1990 1990 500 525 300 525 300	1005 1815 1765 1705 1595 1525 1460 1120 826 565 430 300 - %6	1005 1815 1765 1705 1595 1525 1460 1350 1350 1350 1350 515 515 340 225	1330 1329 1285 1265 1265 1240 1240 1240 1265 1145 1065 975 770 615 795 200 340 260	1436 1855 1825 1335 1250 1265 1265 1265 1265 1265 1265 1265 1265	160

PRESSURE TEMPERATURE RATINGS



ASME B16.34-2009

			co	LD WOR	KING PR	ESSURE,	psig		r	
CLASS	TEMP °F	A216 WCB A105 & LF2	A352 LCC	A217 WC6 A182 F11	A217 WC9 A182 F22	A217 C5 A182 F5	A217 C12 A182 F9	A351 CF8 A182 F304	A351 CF8M A182 F316	A352 CN7M
	-20 to 100	8705	3760	375C	3760	3750	3750	3600	3600	3000
5	200	33 9ñ	3750	375¢	3750	8750	3750	3000	3095	.359C
5	300	3670	9840	36°C	0640	3640	3640	2690	2795	2330
1	400	0170	3520	3465	3560	3500	3530	2465	2370	2110
8	500	3015	3025	0325	3025	3325	3325	2330	2090	1945
2	800	2540	3625	3025	3025	3025	3025	2210	2255	1800
	650	2745	2840	294C	2940	2940	2940	218C	2210	
	700	2865	2775	284C	2840	2840	2840	21*0	2170	
	750	2535	2685	2650	2660	2660	2660	2065	2135	
	800	2066	2055	2540	2040	25/10	25/10	2030	2110	
	850	1505	1095	2430	2485	2435	2435	1950	2090	
	900	1160	1115	3924o	25145	.870	9240	1(14c)	2075	0
1500	950	685	680	1bêo	1950	1370	1680	1910	-930	
3	1000	430	430	1090	1355	995	1270	1770	-820	-
3	1050	0.000		720	675	720	855	1630	1800	
8	1100		-	480	550	495	565	1255	1525	-
10	1150		-	325	545	310	375	1050	1165	
3	1200			205	205	170	255	525	925	
1	1250			200	210	1.4	200	570	735	
2	1300			6					586	0
5	1998		2	0 3				565	1000	2
1	1350	-		2 2			h	465	190	
3	1400			-				380	890	
ä	140C						4	290	290	-
	1500							205	205	
CLASS	TEMP 'F	A216 WCB A105 & LF2	A352 LCC	A217 WCB A182 F11	A217 WC9 A182 F22	A217 C5 A182 F5	A217 C12 A182 F9	A351 CF8 A182 F304	A351 CFBM A162 F316	A352 CN7M
2	20 to 100	6170	8250	6250	6250	6250	6250	6000	5000	500C
15	200	5855	8250	6250	8250	6250	6250	5000	5160	4320
3	300	5450	8070	6015	5070	6070	6070	44B0	4660	385C
	400	2280	5865	5775	5880	5880	5B30	4140	4280	352C
	500	6026	5640	551C	5640	5540	5540	3880	388D	3240
l î	600	4730	5040	504C	2040	5040	50/10	3680	3760	3000
	650	4576	4905	4906	4905	4905	4906	3600	3680	
	700	4420	4630	479C	4750	4/30	4730	3620	3620	
1	750	42.30	4230	430)	4450	4430	44,30	344C	3060	
	600	3430	3430	423C	4250	4230	4230	335C	3520	
1		0475	2655	4050	4060	4060	4060	2320	3460	
	650	2855					3745	3240	3460	
1 1 1 1	028 900	2665 1915	1855	3745	3745	3115	111.961		A 19 19 19 19 19 19 19 19 19 19 19 19 19	
2 50 0			0.020000	0745 2655	3745 3225	3115 2285	3-45	015C	3220	
2500	900	1915 1145	1255 1145	2655		2285	3145	0150 2950		
2500	900 950	1915	1255		3225			295C	3225 3035 3005	
2500	900 950 10D0	1915 1145	1255 1145	2655 1800 1200	3225 2235 1/55	2285 1655 120D	3°45 2°15	295C 27*5	3030 3000	
2500	900 950 1000 1050 1100	1915 1145	1255 1145	2655 1800 1200 300	3225 2230 1/55 915	2285 1655 1200 850	3145 2115 1430 845	2950 27*6 2145	3030 3000 2645	
2500	900 950 1000 1050 1100 1150	1915 1145	1255 1145	2655 1830 1230 200 3/5	3225 2235 1/55 915 570	2285 1655 1200 830 518	3145 2115 1430 845 630	2950 2715 2115 1716	3030 3000 2645 1970	
2500	900 950 1000 1050 1105 1100 1150 1200	1915 1145	1255 1145	2655 1800 1200 300	3225 2230 1/55 915	2285 1655 1200 850	3145 2115 1430 845	2950 27*5 2145 17*5 1370	3030 3000 2645 1970 1645	
2500	900 950 1000 1050 1100 1150 1200 1256	1915 1145	1255 1145	2655 1830 1230 200 3/5	3225 2235 1/55 915 570	2285 1655 1200 830 518	3145 2115 1430 845 630	2950 2715 2145 1715 1870 1110	3030 3000 2545 1970 1945 1980	
2500	900 950 1000 1050 1105 1150 1150 1200 1200 12	1915 1145	1255 1145	2655 1830 1230 200 3/5	3225 2235 1/55 915 570	2285 1655 1200 830 518	3145 2115 1430 845 630	2950 2715 2145 1715 1870 1110 945	3030 3000 2645 1970 1945 1980 970	
2500	900 950 1000 1050 1100 1150 1200 1200 1250 1300 1350	1915 1145	1255 1145	2655 1830 1230 200 3/5	3225 2235 1/55 915 570	2285 1655 1200 830 518	3145 2115 1430 845 630	2950 27°5 2145 17°5 1870 11°0 945 770	3030 3000 2645 1970 1945 1980 970 800	
2500	900 950 1000 1050 1150 1150 1200 1200 1250 1350 1350 1400	1915 1145	1255 1145	2655 1830 1230 200 3/5	3225 2235 1/55 915 570	2285 1655 1200 830 518	3145 2115 1430 845 630	2950 2715 2145 1715 1870 1110 945 770 800	3030 3000 2645 1970 1945 1980 970 600 830	
2500	900 950 1000 1050 1100 1150 1200 1200 1250 1300 1350	1915 1145	1255 1145	2655 1830 1230 200 3/5	3225 2235 1/55 915 570	2285 1655 1200 830 518	3145 2115 1430 845 630	2950 27°5 2145 17°5 1870 11°0 945 770	3030 3000 2645 1970 1945 1980 970 800	



TERMS & CONDITIONS OF SALE

SCOPE

These terms and conditions apply to all Fastuel valve products, and supersedes all previously published terms and conditions.

Hereafter, Fastwell Fitting Industries shall be referred to as Fastwell

Special terms and conditions printed on a buyer's order will only apply insofar as they conform to the terms and conditions detailed on these pages. Terms and conditions of an order that change or modify those on this sheet shall not be binding on Fastwell

APPROVAL

All quotations, contracts, orders, or agreements are subject to approval and/or acceptance by the main offce of Fastwell

We reserve the right to correct clerical or stenographic errors in quotations, orders, invoices, and other contracts, agreements, or documents.

PRICES

Possession of price lists will not be accepted by Fastwell as an obligation, or offer to sell the goods listed therein to anyone.

All prices contained therein are subject to change without notice, and supersede all previous lists. All orders will be invoiced at prices in effect at the time of shipment unless quoted in writing.

CHANGES

Orders cannot be cancelled or specifications be changed without the consent of Fastwell and then only in terms indemnifying Fastwell against loss.

QUOTATIONS

Goods quoted F.O.B. our service center are subject to prior sale. Prices quoted are valid only for the duration indicated in the quotation. Quoted prices supersede all previous prices, quotations, or contracts, and are subject to change without notice.

CANCELLATIONS

Orders placed with us cannot be cancelled without our prior written consent. A cancellation charge will be applicable as outlined in our quotation.

CLAIMS

All claims for shortages, corrections, or deductions must be made within 10 days after receipt of goods. Responsibility for goods lost or damaged in transit rests with carrier, and claims should be fled with the carrier by the consignee. Delivery of material to a common carrier shall be considered delivery to the buyer, and shall be at the buyers risk thereafter.

DELIVERY DELAYS

We assume no responsibility for delays in delivery, or defaults resulting from strikes, work stoppages, fres, foods, accidents, war, inability to obtain materials, or any other cause unavoidable and beyond our control.

TAXES

Fastwell quotations and/or contracts do not include any municipal, state, or federal sales, excise, use occupational, or other taxes, and any such tax, if paid by us will be charged to the purchaser.

CATALOG ILLUSTRATIONS

Catalog illustrations are actual representations of a certain size of each product line, but do not necessarily represent all sizes in details. We reserve the right to institute changes in materials, designs, and specifications without notice in keeping with our policy of continuing product improvement.

CATALOG WEIGHTS

Catalog weights represent average weights of products and are in no sense guaranteed.

RETURNS

See Return Goods Policy on next page.

SPECIAL ORDERS

Orders for special goods must be in writing and accompanied with detailed prints and/or sets of specifcations, unless specifcations on the orders are defnite and complete. Orders will not be entered with the factory unless this is adhered to. Cancellation charges will be as outlined in our quotations.

FREIGHT TERMS

All shipments are F.O.B. our service centers. See current bulletin for freight allowance.

WARRANTY

See warranty on reverse side

RETURN GOODS POLICY



This policy supersedes all other policies for return goods.

- I. Goods returned at customers request:
 - A. Material must be:
 - 1. Of our manufacture.
 - 2. In clean, new and saleable condition. It must have been stored inside out of the weather.
 - 3. Shipped from one of our service centers within the 12 calendar months preceding the request for return, and the return will not cause inventory to exceed maximum allowable levels.
 - 4. Personally inspected by a Fastwell representative prior to its return.
 - 5. Special or non-standard items are non-returnable.
 - B. Return shipments must be prepaid.
 - C. Credit will be allowed at invoice price, less 25% handling cost, and less any freight paid by Fastwell
 - D. A Return Goods Card must be furnished by a Fastwellrepresentative after inspection of the material, and must be returned with the shipment.
 - E. Shipments received without a Return Goods Authorization Card will be refused. Customer will be responsible for any storage and/or return freight.
 - F Material returned which is not of Fastell manufacture, not in clean and saleable condition, or not authorized for return will be returned to the customer freight collect.
- II. Goods returned because of an error by Fastwell
 - A. Material must be in a clean, new, saleable condition.
 - B. Return shipment should be made freight collect.
 - C. Full credit will be allowed.
 - D. Customer must receive Return Goods authorization prior to the return of the material. Return Goods Authorization Card must accompany shipment. Shipments received without Return Goods Authorization Card will be refused. Return Goods Authorization Card should be attached to the packing list.

All requests to return material to **Fastwell Fitting Industries.** must be submitted in writing to our National Sales Manager for authorization.

WARRANTY

Fastwell Fitting Industries. warrants each product sold, if the products are of our manufacture, against defects in material and workmanship under normal use and service for a period of one year after date of shipment.

This warranty is made to the buyer only, and does not extend to any other party. The obligation of Fastwell Valve International, Inc. under this warranty is limited to: (a) replacement of any part or parts proven defective in material or workmanship, (b) repair of the product FO.B. the factory or service center, (c) refund of the purchase price. In the case of product or parts not wholly of Fastwell manufacture, Fastwell liability under this warranty shall be limited to the extent of Fastwell recovery from the manufacture of such parts under its warranty to Fastwell This warranty does not extend to any claims for labor, consequential damages, down time, or any other loss, damage, or expense of any kind arising out of the defect. We do not allow claims for unauthorized repairs, labor, or material. We are not responsible for loss of use, personal injury, lost profts, or any other damages whatsoever in connection with the warranties set forth.

No warranty shall apply to any product which has been modifed or changed in design or function after leaving Fastwell facilities or which is misused or operated beyond its design capabilities, or used for other than its intended purpose. Purchasers of Fastwell products should consult knowledgeable advisors in the selection of product type and material of construction for their specific use. The buyer assumes all risk of this selection.

The buyer shall permit Fastwell or its authorized representative to inspect the product so that it may determine its obligation. Fastwell shall be entitled to the return of the defective product or parts. Buyer must notify Fastwell promptly upon discover of any claimed defect.

No material may be returned without first obtaining written permission from Fastwell Fitting Industries.



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