FLOW-TEK FLANGED SERIES

2 PIECE FLANGED FULL PORT 1/2" - 12" BALL VALVES F15 - ASME CLASS 150 | F30-ASME CLASS 300





THE HIGH PERFORMANCE COMPANY

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FLANGED SERIES BALL VALVES

Flow-Tek's F15/F30 Flanged Series ball valves feature a floating ball design for low torque and increased cycle life. As standard, large size valves feature trunnion-type ball support. These rugged ball valves are ideal for industrial applications.



MC Gas Equipment Limite (+852) 2851 2121 dmcsaleshk@dmc-gas.com.hl www.dmc-gas.com.hk

Body2 PieceFull Port1/2" through 12"MaterialsStainless Steel, Carbon Steel
& Special AlloysPressure RatingsF15: ASME Class 150
F30: ASME Class 300

SECURE MOUNT

Flanged Series values offer ease of automation due to an integrally cast actuator mounting pad which complies with ISO 5211 through 2'' value sizes.

STEM SEALS

Flanged Series $\frac{1}{2}$ " – 2" valves feature live-loaded, self-adjusting primary and secondary sealing. Utilizing Belleville washers, the stem seal automatically adjusts to compensate for changes in temperature and normal wear. $2\frac{1}{2}$ " – 12" valves utilize an independent packing gland which can be easily adjusted without removing mounting hardware or operator. The packing gland is contoured to more uniformly distribute the load across the packing. The primary stem seal is a combination of a thrust washer and a thrust washer protector. An adjustable stem packing creates a secondary seal between the stem and body. The stem packing is composed of RPTFE V-rings as standard – graphite stem packing is standard on all fire safe valves.

BALL

Flow-Tek balls are precision machined and mirror finished for bubble-tight shut off and less operating torque. As an added safety feature, a hole in the stem slot of each ball equalizes pressure between the body cavity and the line media flow.

BODY

¹/₂"- 4" valve bodies are investment cast and solution annealed/ normalized for the highest quality and added strength. All body castings are marked with a foundry heat number for full traceability. Carbon steel bodies are phosphate coated for increased corrosion resistance.

SEAT

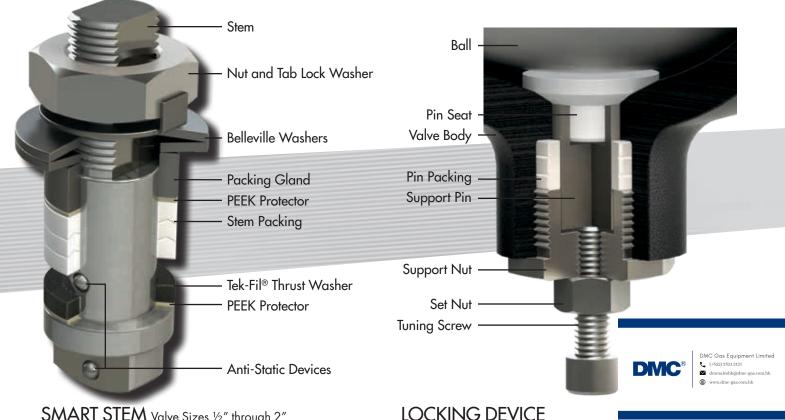
Flow-Tek's seat design ensures bi-directional, bubble-tight sealing with low operating torque. All resilient seats feature relief slots or seat O.D. clearance to relieve pressure past the upstream seat, and positive preloading to ensure low pressure/vacuum sealing.

STEM ASSEMBLIES

Flow-Tek manufactures heavy duty, high quality stems with double "D" connection to ball and operator mounting. Stem and ball design ensure positive contact. All Flow-Tek stems are internal entry and blowout proof for maximum safety.

BALL SUPPORT Valve Sizes 6" through 12"

As standard, larger sized valves feature trunnion-type ball support. This support helps to maintain continuous contact between the ball and seats, preventing seat damage and blow-by. The results are less seat wear, lower torque, and longer service life.



SMART STEM Valve Sizes 1/2" through 2"

Flow-Tek's interchangeable family of valves feature strong, large diameter stems with live-loaded, self-adjusting sealing utilizing Belleville washers which automatically adjust to compensate for changes in temperature and wear. Manual adjustments which can cause damage to the seal and seat are not required. The assembly is secured by a saddle-type lock washer which prevents stem nuts from unthreading in high cycle automation applications.

STEM PACKING

An adjustable V-ring design creates a multiple seal between the stem and body. Each stem assembly is composed of three or four (dependent on valve size) rings providing a very high cycle life by resisting creep and cold flow. The thrust washer and the thrust washer protector combine to provide a primary seal, reduce torque and prevent galling. This arrangement is a Flow-Tek exclusive.

FIRE SAFE - Certified to API 607

Flanged Series valves with graphite stem seals have been thoroughly fire tested and meet these standards.

In the event of a fire, after heat destroys the primary resilient seat, the ball makes contact with the secondary metal seat, forming a secure seal. The body seal, composed of stainless steel and graphite wound into a spiral, prevents external leakage. The graphite stem rings prevent stem leakage.



Metal-to-Metal Contact Valve Body Body Seal

Burned Seat Secondary Metal Seat Ball

feature a safety trigger that locks the handle in the open or closed

All manually operated valves

feature a locking device to

prevent accidental movement

of ball position. Valves 1/2"-2"

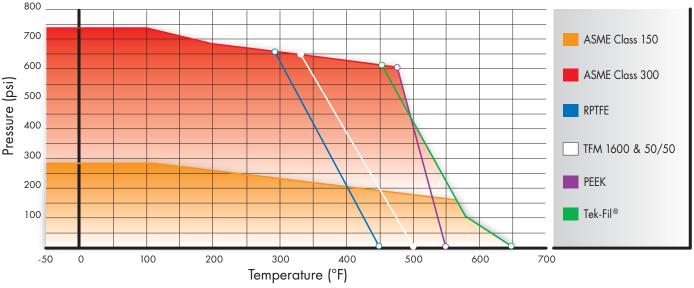
position. The handle lock can



be bypassed, if needed, with a small bolt through the handle in the release position.

On all sizes a padlock can be added to secure the handle in position, preventing unwanted movement of the ball.

PRESSURE / TEMPERATURE



Carbon steel valves limited to -20°F

STEAM SERVICE PRESSURE RATINGS: WSP

	TFM Seats		Tek-Fil	Seats	PEEK Seats		
	PSI	°F	PSI	°F	PSI	°F	
Class 150	150	365	190	383	170	374	
Class 300	150	365	425	454	425	454	

Vacuum service to 29.9 inches Hg. gauge.

SPECIAL OPTIONS/SERVICES									
Cavity Fillers	Media Containment Units								
Spring Return Handles	NACE								
Vented Balls	Polished Internals								
Characterized Balls	Special Cleaning								
Chlorine Service	Silicone Free								

SPECIFICATIONS

- Valve sizes 1/4" through 12"
- Design meets MSS-SP-110
- Threaded end connections meet ASME B1.20.1 NPT
- Socket weld end connections meet ASME B16.11
- Butt weld end (Schedule 40) connections meet MSS SP-72 /ASME B16.25
- Flanged end connections meet ASME Class 150

Valve body and end cap connections are high quality investment cast and solution annealed/normalized. Body and end cap wall thickness meets ASME B16.34.

Valve stems are blow-out proof for maximum safety and meet ASME B16.34 specification.

All valves are factory tested to MSS SP-72 and API 598.

SEAT SELECTION

A wide range of seat materials are available to meet most applications. The standard seat is TFM 1600. Options include:

- RPTFE
- Stainless Steel/PTFE (50/50)
- UHMWPE
- Virgin PTFE
- PEEK
- Tek-Fil® (carbon/graphite filled TFM)
- Full metal seats
- Cavity Fillers

PEEK seats offer high pressure/temperature capability. Tek-Fil® seats offer reduced torque in high temperature, high cycle, and steam service applications. TFM 1600 seats offer the exceptional chemical resistance of PTFE plus lower porosity and permeability, improved temperature range and reduced valve torques.



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COMPONENTS & MATERIALS

ITEM/NAME	STAINLESS STEEL	CARBON STEEL	QTY.
1. Body	ASTM A351 Gr CF8M	ASTM A216 Gr WCB	1
2. End Cap	ASTM A351 Gr CF8M	ASTM A216 Gr WCB	1
3. Ball	ASTM A351	Gr CF8M	1
4. Seat	TFM 1	600	2
5. Stem	ASTM A479	7 Туре 316	1
6. Body Seal	Spiral Wound (316/Graphite)	1
7. Body Nut	ASTM A1	94 Gr 8	*
8. Body Stud	ASTM A193 B8	ASTM A193 B7	*
9. Anti-Static Device	SS3	04	2
10. Packing Protector	PEE	K	1
11. Protector	PEE	К	1
12. Thrust Washer	Tek-	Fil	1
13. Stem Bearing	15% R	PTFE	1
14. Stem Packing	RPTFE or (Graphite	* *
15. Packing Gland	ASTM A167	/1	1
16. Packing Follower	ASTM A351 Gr CF8M	ASTM A216 Gr WCB	1
17. Gland Bolt	SS3	04	2
18. Belleville Washer	SS3	01	2
19. Tab Lock Washer	SS3	04	1
20. Travel Stop Housing	CF8M	WCB	1
21. Housing Bolt	SS304	Alloy Steel	4
22. Travel Stop	SS304	Zinc Plated Carbon Steel	1
23. Travel Stop Sleeve	ASTM A167	′ Туре 304	1
24. Travel Stop Bolt	SS3	04	1
25. Handle	SS304 or Due	ctile Iron***	1
26. Lock Nut	ASTM A167	7 Type 304	2
27. Handle Bolt	Carbor	n Steel	1
28. Handle Sleeve	Vinyl thro	ough 2″	1
29. Locking Device	SS3	04	1
30. Snap Ring	Nickel Plated	Carbon Steel	2

 * Quantity depends on valve size.
* RPTFE packing is composed of 3 or 4 pieces depending on size. Graphite packing is composed of a single piece.
* Ductile Iron used forvalve sizes ≥ 2½". **

Flow-Tek offers the seat, body seal, thrust washer and stem packing as recommended spare parts. These parts are available as a packaged repair kit.

21/2" - 12" VALVES

Ball support is included on 6"-12" F15 valves and 6"-12" F30 valves.



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28

24

23

25

8

25 2½" – 4" Valves

25 6"and 8" Valves

27

26

1/2" - 2" VALVES

Carbon steel bodies on

valve sizes $\frac{1}{2}$ " – 4" are black phosphate coated.

All stainless steel

2

2

bodies are solution annealed/normalized. 19

18

15

10

14

12 11

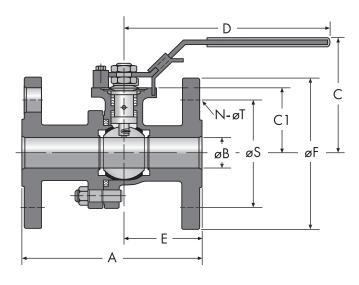
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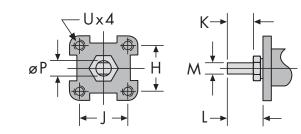
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F15/F30 DIMENSIONS 1/2" - 2" VALVES (15mm - 50mm)





DI	MEN	sion	S – S	ecur	e Moi	unt				
S	ize	н	J	FO	BC DIA.	К	L	м	øP	U UNC
	1/2	1.17	1.17	F04	1.65	0.31	0.61	0.25	0.37	#10-24
ES	3/4	1.17	1.17	F04	1.65	0.31	0.61	0.25	0.37	#10-24
INCHES	1	1.39	1.39	F05	1.97	0.43	0.82	0.31	0.43	1/4-20
Z	1-1/2	1.95	1.95	F07	2.76	0.55	0.95	0.37	0.62	5/16-18
	2	1.95	1.95	F07	2.76	0.55	0.95	0.37	0.62	5/16-18
S	15	29.7	29.7	F04	41.9	7.9	15.5	6.0	9.4	#10-24
IEK	20	29.7	29.7	F04	41.9	7.9	15.5	6.0	9.4	#10-24
WE.	25	35.0	35.0	F05	50.0	10.9	20.8	7.9	10.9	1/4-20
MILLIMETERS	40	49.5	49.5	F07	70.0	14.0	24.0	9.5	15.8	5/16-18
<	50	49.5	49.5	F07	70.0	14.0	24.0	9.5	15.8	5/16-18

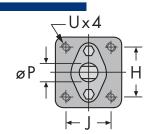
Mo	odel F1	5 – Class	150												
	Size	А	øB	С	C1	D	E	øF	øS	N / øT	Cv	То	rque*	w	'eight
	1/2	4.25	0.59	2.88	1.54	6.50	1.79	3.50	2.38	4 x 0.62	32		36		4
S	3/4	4.62	0.79	2.97	1.67	6.50	2.01	3.88	2.75	4 x 0.62	60		65		5
INCHES	1	5.00	0.98	3.41	2.05	7.87	2.13	4.25	3.12	4 x 0.62	105	LBS-IN	95	LBS	10
≚	1-1/2	6.50	1.49	4.20	2.60	9.84	2.76	5.00	3.88	4 x 0.62	275	<u> </u>	230		14
	2	7.00	1.97	4.53	2.95	10.43	3.07	6.00	4.75	4 x 0.75	500		390		20.5
6	15	108.0	15.0	73.25	39.0	165.0	45.5	88.9	60.5	4 x 15.8	28		4		2
Ĩ	20	117.0	20.0	75.40	42.4	165.0	51.0	98.6	69.9	4 x 15.8	52		7		2
MILLIMETERS	25	127.0	24.9	86.69	52.0	199.9	54.0	108.0	79.0	4 x 15.8	91	۲ Z	11	9 2	4.5
VILLI	40	165.0	37.9	106.60	66.0	249.9	70.0	127.0	98.6	4 x 15.8	238		26		6
<	50	177.8	50.0	115.01	74.9	264.9	78.0	152.0	120.7	4 x 19.0	433		44		9
Mo	odel F3	0 – Class	300												
	Size	А	øB	С	C1	D	E	øF	øS	N / øT	Cv	То	rque*	W	eight
	1/2	5.50	0.59	2.92	1.57	6.50	2.44	3.75	2.62	4 x 0.62	32		40		5
S	3/4	6.00	0.79	2.97	1.67	6.50	2.72	4.62	3.25	4 x 0.75	60	_	70		7
INCHES	1	6.50	0.98	3.41	2.05	7.87	2.91	4.88	3.50	4 x 0.75	105	LBS-IN	108	LBS	10
ž	1-1/2	7.50	1.49	4.04	2.60	9.84	3.27	6.12	4.50	4 x 0.88	275	LB	270		19
	2	8.50	1.97	4.53	2.95	10.43	3.94	6.50	5.00	8 x 0.75	500		445		25
	1.5	139.7	15.0	74.23	39.9	165.0	62.0	95.0	66.6	4 x 15.8	28		5		2
	15						10.0	117.0	82.6	4 x 19.0	52		•		3
TERS	20	152.0	20.0	75.40	42.0	165.0	69.0	117.0	02.0	4 X 17.0	52		8		9
METERS			20.0 24.9	75.40 86.61	42.0 52.0	165.0 199.9	69.0 73.9	117.0	88.9	4 x 19.0	91	Ę	8	Ŷ	5
MILLIMETERS	20	152.0										Ĕ		ð	

Face to Face dimensions meet ASME B16.10 long pattern and short pattern (sizes 1/2 " thru 2").

*Torque at maximum rated pressure, clean water, TFM 1600 seating material. Other seat materials exhibit different torques. Please refer to TB 1005 for specific torques.



F15/F30 DIMENSIONS 21/2" - 12" VALVES (65mm - 300mm)



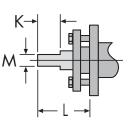
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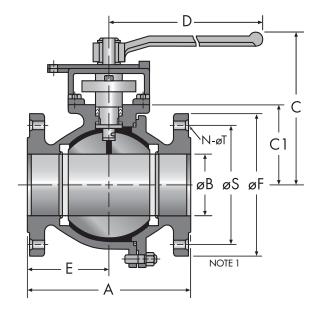
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DI∧	DIMENSIONS – Secure Mount												
Size		Н	J	FO	BC DIA.	K	L	М	øP	U UNC			
	2-1/2 - 4	3.54	1.87	—	—	1.75	3.10	0.67	1.10	1/2-13			
HES	6	3.37	3.37	F12	4.77	1.61	3.58	1.02	1.71	1/2-13			
INCHES	81	3.37	3.37	F12	4.77	2.13 ¹	3.58 ¹	1.02	1.71	1/2-13			
	10-12 ²	4.53	4.53	F16	6.40	2.15	3.86 ²	1.38	1.97 ²	5/8-11			
RS	65 - 100	89.9	47.5	—	—	44.5	78.7	17.0	27.9	1/2-13			
MILLIMETERS	150	85.6	85.6	F12	121.0	40.9	90.9	25.9	43.5	1/2-13			
LLIN	200	85.6	85.6	F12	121.0	54.0	90.9	25.9	43.5	1/2-13			
₹	250-300	115.0	115.0	F16	162.6	54.6	98.0	35.0	50.0	5/8-11			



		. .													
Mo	bdel F I	5 – Class	150												
	Size	A	øB	С	C1	D	E	øF	øS	N / øT	Cv	To	rque*	W	eight
	2-1/2	7.50	2.56	6.63	3.39	15.35	3.08	7.00	5.50	4 x 0.75	780		500		36
	3	8.00	2.99	6.92	3.66	15.35	3.74	7.50	6.00	4 x 0.75	1,150		650		45
S	4	9.00	3.99	7.59	4.39	15.35	4.47	9.00	7.50	8 x 0.75	2,100	7	1,505		65
INCHES	6	15.50	5.98	12.38	7.17	15.35	7.62	11.00	9.50	8 x 0.88	5,000	LBS-IN	3,250	LBS	157
Z	8	18.00	7.87	12.66	7.60	38.98	8.35	13.50	11.75	8 x 0.88	9,600	ш	4,750		290
	10	21.00	9.84	14.80	9.88	38.98	10.47	16.00	14.25	12 x 1.00	15,000		13,700		500
	12	24.00	11.81	16.37	11.46	38.98	12.01	19.00	17.00	12 x 1.00	21,000		19,700		700
	65	190.5	65.0	168.40	86.0	389.9	78.0	177.8	139.7	4 x 19.0	675		56		16
	80	203.0	76.0	175.65	93.0	389.9	95.0	190.5	152.0	4 x 19.0	995		73		20
WILLIMETERS	100	228.6	101.0	192.90	111.5	389.9	113.5	228.6	190.5	8 x 19.0	1,817		170	-	29.5
ΥË.	150	393.7	151.9	314.55	182.0	389.9	193.6	279.0	241.0	8 x 22.0	4,325	۲ Z	367	8	71
VILLI	200	457.0	199.9	321.58	193.0	990.0	212.0	342.9	298.5	8 x 22.0	8,304		537		132
~	250	533.0	249.9	375.85	251.0	990.0	265.9	406.0	362.0	12 x 25.0	12,975		1,548		227
	300	609.6	300.0	415.85	291.0	990.0	305.0	482.6	431.8	12 x 25.0	18,165		2,226		318
					·	۱					,		,		
Mo	odel F3	30 – Class	300	, I						1	,				
	odel F3 Size	80 – Class X A	300 øB	С	C1	D	E	øF	øS	N / øT	Cv	Tc	orque*	W	eight
				C 6.55	C1 3.39	D 15.35			ø S 5.88	N / øT 8 × 0.88		Тс		W	eight 44
	Size	А	øB				E	øF			Cv	Тс	orque*	W	
	Size 2-1/2	A 9.50	øB 2.56	6.55	3.39	15.35	E 4.18	øF 7.50	5.88	8 × 0.88	С _V 780		orque*		44
	Size 2-1/2 3	A 9.50 11.12	ØB 2.56 2.99	6.55 6.85	3.39 3.72	15.35 15.35	E 4.18 5.57	øF 7.50 8.25	5.88 6.62	8 x 0.88 8 x 0.88	C _V 780 1,150		600 850	lBS M	44 61
	Size 2-1/2 3 4	A 9.50 11.12 12.00	ØB 2.56 2.99 3.99	6.55 6.85 7.56	3.39 3.72 4.35	15.35 15.35 15.35	E 4.18 5.57 5.96	ØF 7.50 8.25 10.00	5.88 6.62 7.88	8 x 0.88 8 x 0.88 8 x 0.88	C_V 780 1,150 2,100	Tc	600 850 2,600		44 61 96
	Size 2-1/2 3 4 6	A 9.50 11.12 12.00 15.88	ØB 2.56 2.99 3.99 5.98	6.55 6.85 7.56 12.37	3.39 3.72 4.35 7.19	15.35 15.35 15.35 38.98	E 4.18 5.57 5.96 7.60	ØF 7.50 8.25 10.00 12.50	5.88 6.62 7.88 10.62	8 × 0.88 8 × 0.88 8 × 0.88 12 × 0.88	C _V 780 1,150 2,100 5,000		600 850 2,600 5,300		44 61 96 243
	Size 2-1/2 3 4 6 8	A 9.50 11.12 12.00 15.88 19.75	ØB 2.56 2.99 3.99 5.98 7.87	6.55 6.85 7.56 12.37 13.82	3.39 3.72 4.35 7.19 8.64	15.35 15.35 15.35 38.98 38.98	E 4.18 5.57 5.96 7.60 9.33	ØF 7.50 8.25 10.00 12.50 15.00	5.88 6.62 7.88 10.62 13.00	8 x 0.88 8 x 0.88 8 x 0.88 12 x 0.88 12 x 1.00	C _V 780 1,150 2,100 5,000 9,600		600 850 2,600 5,300 7,600		44 61 96 243 430
	Size 2-1/2 3 4 6 8 10	A 9.50 11.12 12.00 15.88 19.75 22.38	ØB 2.56 2.99 3.99 5.98 7.87 9.84	6.55 6.85 7.56 12.37 13.82 -	3.39 3.72 4.35 7.19 8.64 9.69	15.35 15.35 15.35 38.98 38.98 38.98	E 4.18 5.57 5.96 7.60 9.33 11.18	ØF 7.50 8.25 10.00 12.50 15.00 17.50	5.88 6.62 7.88 10.62 13.00 15.25	8 x 0.88 8 x 0.88 8 x 0.88 12 x 0.88 12 x 1.00 16 x 1.12	C _V 780 1,150 2,100 5,000 9,600 15,000		600 850 2,600 5,300 7,600 17,800		44 61 96 243 430 610
INCHES	Size 2-1/2 3 4 6 8 10 12	A 9.50 11.12 12.00 15.88 19.75 22.38 25.50	ØB 2.56 2.99 3.99 5.98 7.87 9.84 11.81	6.55 6.85 7.56 12.37 13.82 - -	3.39 3.72 4.35 7.19 8.64 9.69 11.26	15.35 15.35 15.35 38.98 38.98 38.98 38.98 38.98	E 4.18 5.57 5.96 7.60 9.33 11.18 12.80	ØF 7.50 8.25 10.00 12.50 15.00 17.50 20.50	5.88 6.62 7.88 10.62 13.00 15.25 17.75	8 x 0.88 8 x 0.88 8 x 0.88 12 x 0.88 12 x 1.00 16 x 1.12 16 x 1.25	C _V 780 1,150 2,100 5,000 9,600 15,000 21,000		600 850 2,600 5,300 7,600 17,800 24,800		44 61 96 243 430 610 950
INCHES	Size 2-1/2 3 4 6 8 10 12 65	A 9.50 11.12 12.00 15.88 19.75 22.38 25.50 241.0	ØB 2.56 2.99 3.99 5.98 7.87 9.84 11.81 65.0	6.55 6.85 7.56 12.37 13.82 - - 166.40	3.39 3.72 4.35 7.19 8.64 9.69 11.26 86.0	15.35 15.35 15.35 38.98 38.98 38.98 38.98 38.98 38.98 38.98	E 4.18 5.57 5.96 7.60 9.33 11.18 12.80 106.0	ØF 7.50 8.25 10.00 12.50 15.00 17.50 20.50 190.5	5.88 6.62 7.88 10.62 13.00 15.25 17.75 149.0	8 × 0.88 8 × 0.88 8 × 0.88 12 × 0.88 12 × 1.00 16 × 1.12 16 × 1.25 8 × 22.0	C _V 780 1,150 2,100 5,000 9,600 15,000 21,000 675	LBS-IN	600 850 2,600 5,300 7,600 17,800 24,800 68	IBS	44 61 96 243 430 610 950 20
INCHES	Size 2-1/2 3 4 6 8 10 12 65 80	A 9.50 11.12 12.00 15.88 19.75 22.38 25.50 241.0 282.5	ØB 2.56 2.99 3.99 5.98 7.87 9.84 11.81 65.0 76.0	6.55 6.85 7.56 12.37 13.82 - 166.40 173.90	3.39 3.72 4.35 7.19 8.64 9.69 11.26 86.0 94.5	15.35 15.35 15.35 38.98 38.98 38.98 38.98 38.98 38.98 389.9 389.9	E 4.18 5.57 5.96 7.60 9.33 11.18 12.80 106.0 141.5	ØF 7.50 8.25 10.00 12.50 15.00 17.50 20.50 190.5 209.6	5.88 6.62 7.88 10.62 13.00 15.25 17.75 149.0 168.0	8 x 0.88 8 x 0.88 8 x 0.88 12 x 0.88 12 x 1.00 16 x 1.12 16 x 1.25 8 x 22.0 8 x 22.0	C _V 780 1,150 2,100 5,000 9,600 15,000 21,000 675 995		600 850 2,600 5,300 7,600 17,800 24,800 68 96		44 61 96 243 430 610 950 20 27.7
INCHES	Size 2-1/2 3 4 6 8 10 12 65 80 100	A 9.50 11.12 12.00 15.88 19.75 22.38 25.50 241.0 282.5 304.8	ØB 2.56 2.99 3.99 5.98 7.87 9.84 11.81 65.0 76.0 101.0	6.55 6.85 7.56 12.37 13.82 166.40 173.90 192.05	3.39 3.72 4.35 7.19 8.64 9.69 11.26 86.0 94.5 110.5	15.35 15.35 15.35 38.98 38.98 38.98 38.98 38.98 38.98 38.98 389.9 389.9	E 4.18 5.57 5.96 7.60 9.33 11.18 12.80 106.0 141.5 151.0	ØF 7.50 8.25 10.00 12.50 15.00 17.50 20.50 190.5 209.6 254.0	5.88 6.62 7.88 10.62 13.00 15.25 17.75 149.0 168.0 200.0	8 x 0.88 8 x 0.88 8 x 0.88 12 x 0.88 12 x 1.00 16 x 1.12 16 x 1.25 8 x 22.0 8 x 22.0 8 x 22.0	C _V 780 1,150 2,100 5,000 9,600 15,000 21,000 675 995 1,817	LBS-IN	600 850 2,600 5,300 7,600 17,800 24,800 68 96 294	IBS	44 61 96 243 430 610 950 20 27.7 44
	Size 2-1/2 3 4 6 8 10 12 65 80 100 150	A 9.50 11.12 12.00 15.88 19.75 22.38 25.50 241.0 282.5 304.8 403.0	ØB 2.56 2.99 3.99 5.98 7.87 9.84 11.81 65.0 76.0 101.0 151.9	6.55 6.85 7.56 12.37 13.82 166.40 173.90 192.05 314.20	3.39 3.72 4.35 7.19 8.64 9.69 11.26 86.0 94.5 110.5 182.6	15.35 15.35 15.35 38.98 38.98 38.98 38.98 38.98 38.98 38.98 389.9 389.9 389.9 990.0	E 4.18 5.57 5.96 7.60 9.33 11.18 12.80 106.0 141.5 151.0 193.0	ØF 7.50 8.25 10.00 12.50 15.00 17.50 20.50 190.5 209.6 254.0 317.5	5.88 6.62 7.88 10.62 13.00 15.25 17.75 149.0 168.0 200.0 269.8	8 x 0.88 8 x 0.88 12 x 0.88 12 x 0.88 12 x 1.00 16 x 1.12 16 x 1.25 8 x 22.0 8 x 22.0 8 x 22.0 12 x 22.0	C _V 780 1,150 2,100 5,000 9,600 15,000 21,000 675 995 1,817 4,325	LBS-IN	600 850 2,600 5,300 7,600 17,800 24,800 68 96 294 599	IBS	44 61 96 243 430 610 950 20 27.7 44 110

¹ For 8" F30: K=1.61, L=3.42

² For 10" F30: L=3.82, P=2.165

NOTE 1: Ball Support as shown on Page 3 is included on 6"-12" F15 and 6"-12" F30 valves.

NOTE 2: 21/2", 3" & 4" valves feature a NAMUR stem slot for ease of limit switch mounting.

Face to Face dimensions meet ASME B16.10 long pattern in all sizes and short pattern sizes up to 4" F15 and up to 6" F30. *Torque at maximum rated pressure, clean water, TFM 1600 seating material. Other seat materials exhibit different torques. Please refer to TB 1005 for specific torques.

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