Flanged Full Port and Reduced Port Ball Valve WCB = CF8M = Alloy20 = LCC = Various other Alloys ANSI 150-300 (1/2"-12")













Providing Hundreds of Products. Supporting Thousands of Clients. Controlling Millions of Gallons.

# **DEPEND ON US. WE CAN HANDLE THE PRESSURE.**





## **Series YFS**

- Sizes 1/2" 12" ANSI Class 150-300
- 2-piece Body Floating Flanged Design, Full or Reduced Port
- Carbon, Stainless steel, Alloy 20, Hastelloy C or A350 Grade LCB
- Raised Face and Ring Type Joint Ends (RTJ)
- Fully Encapsulated Body Seals
- Self-cleaning, Leak Tight Slotted Seat Design
- Fully Encapsulated Seats (TFM Standard)

- NACE MR0175 Approved
- Design and Tested to API 6D
- Fire Tested according to API 607 Standards
- Live Loaded Stem Design
- Blowout proof, Anti-Static Stem Design
- Wide variety of Exotic Alloys
- ISO 5211 Integral Mounting Pad
- Wide Choice of Seat and Seal Material Options
- Cryogenic Stem Option
- Media Containment Bonnet Compatible



GLOBAL Valve & Controls® (**b**) is an ISO 9001 certified and API 6D, Q1 licensed valve manufacturer of Domestic and Non Domestic products. Offering Ball, Globe, Gate, Expanding Gate, Slab Gate, Check, and Needle Valves; Actuators and Automation Accessories.

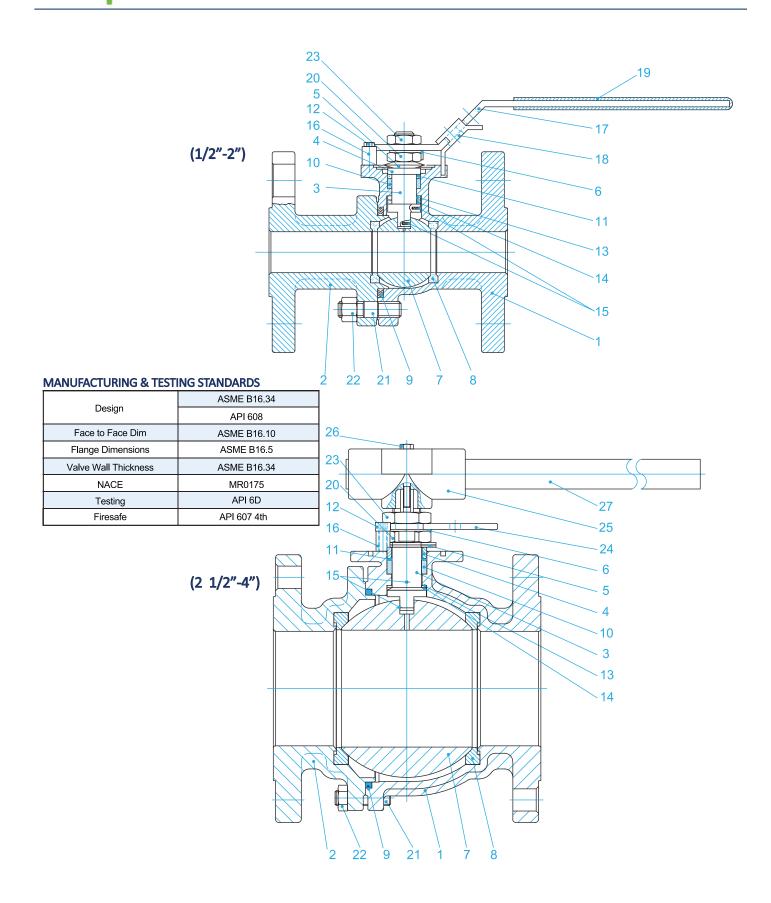
**b** accommodates & services the Upstream, Midstream & Down-stream market segments of the oil/gas industry, with a primary focus on Natural Gas Transport and Storage Projects, as well as, the Petrochemical, Agricultural, Mining, Water/ Waste Management, and Aerospace Industrial Sectors. **GLOBAL Valve & Controls**<sup>®</sup> has the right valve for the right application, ranging from ANSI 150 through 2500, sizes 1/4 to 48", in Stainless Steel, Carbon Steel, Alloy 20, Monel, Duplex, and other various exotic body materials.

**b b** also carries fully automated valve packages, fugitive emission solutions, control packages, cryogenic valves, as well as, various valve coating solutions. Special Ordering is available! GLOBAL Valve & Controls® continues to make strides in elevating our company beyond industry standards, by being consistent in providing products that are of superior quality and performance, dedicating ourselves to quality assurance, and being immediately responsive to our customer needs. We look forward to the opportunity to supply your valve needs!

Sincerely

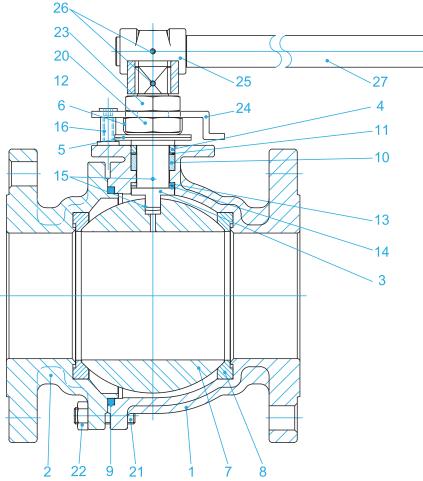
Troy Richard CEO at GLOBAL Valve & Controls





**MATERIALS OF CONSTRUCTION** SERIES YFS

(6")

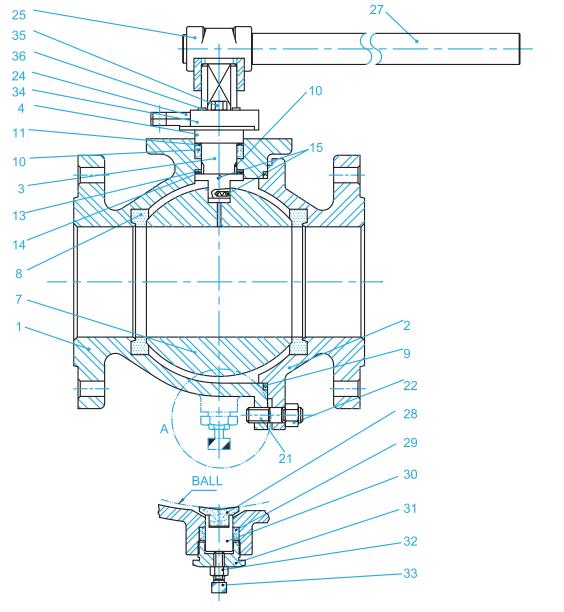


MANUFACTURING &	TESTING STANDARDS

Desim	ASME B16.34			
Design	API 608			
Face to Face Dim	ASME B16.10			
Flange Dimensions	ASME B16.5			
Valve Wall Thickness	ASME B16.34			
NACE	MR0175			
Testing	API 6D			
Firesafe	API 607 4th			

# **MATERIALS OF CONSTRUCTION** SERIES YFS





### VIEW-A 8", 10", 12" BALL SUPPORT MANUFACTURING & TESTING STANDARDS

Design	ASME B16.34				
Design	API 608				
Face to Face Dim	ASME B16.10				
Flange Dimensions	ASME B16.5 ASME B16.34				
Valve Wall Thickness					
NACE	MR0175				
Testing	API 6D				
Firesafe	API 607 4th				

C MATERIALS AND ENGINEERING DATA SERIES YFS

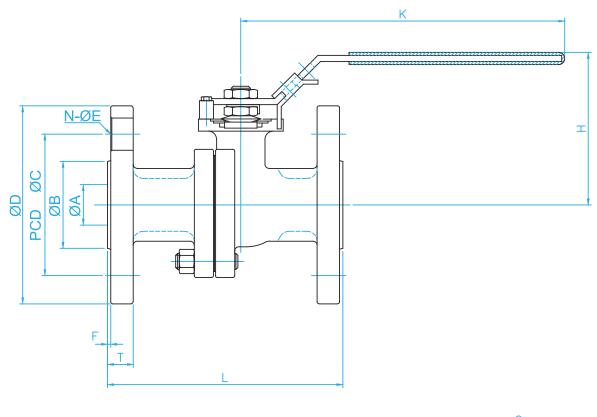
### **Bill of Materials**

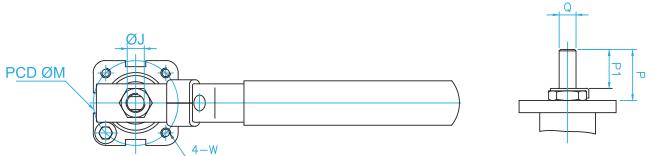
NO.	PART NAME	Q'TY	MATERIAL	NO.	PART NAME	QTY	MATERIAL
1	Body	1	Alloy 20ASTM A351 CN7MCarbon SteelASTM A216-WCBHastelloy CASTM A494 Gr CW-12MW	28	Pin Seat (10" - 12") 150 lb (6" - 12") 300 lb	1	RPTFE
			Monel         ASTM A494 Gr M35-1           316 Stainless Steel         ASTM A351 CF8M           Alloy 20         ASTM A351 CN7M	29	Pin Packing (10" - 12") 150 lb (6" - 12") 300 lb	1	Graphite
2	End Cap	1	Carbon SteelASTM A216-WCBHastelloy CASTM A494 Gr CW-12MWMonelASTM A494 Gr M35-1	30	Trunnion Support (10" - 12") 150 lb (6" - 12") 300 lb	1	316 Stainless Steel
3 4	Stem Packing Gland	1	316 Stainless Steel         ASTM A351 CF8M           Alloy 20 / Hastelloy C / 17-4Ph / 316 Stainless Steel         304 Stainless Steel	31	Bottom Trunnion Nut (10" - 12") 150 lb (6" - 12") 300 lb	1	304 Stainless Steel
5	Belleville Washers (1/2" - 6")	2	301 Stainless Steel / Inconel X-750	32	Trunnion Set Nut (10" - 12") 150 lb	1	304 Stainless Steel
6	Lock Tab (1/2" - 6")	1	304 Stainless Steel		(6" - 12") 300 lb Trunnion Screw		
7 8	Ball Seat	1 2	Alloy 20 / Hastelloy C / Monel / 316 Stainless Steel NOVA / PEEK / RTFE / TFE / TFM / UHMWPE	33	(10" - 12") 150 lb (6" - 12") 300 lb	1	304 Stainless Steel
9 10	Gasket Stem Packing	1	Spiral Wound Wire (316/Graphite) NOVA / RTFE / TFE / TFM / Graphoil	34	Stem Gland (8" - 12")	1	304 Stainless Steel
11	Thrust Washer Cap Screw	1	50% PTFE + 50% 316	35	Gland Bolts (8" - 12")	2	304 Stainless Steel
12 13	(1/2" - 6") Lower Stem Packing	1	Carbon Steel / Stainless Steel RPTFE	36	Snap Ring	1	Nickel Plated Carbon Steel
13	Lower Thrust Washer	1	50% PTFE + 50% 316		(8" - 12")		
15	Anti-Static Device	2	316 Stainless Steel				
16	Stop Pin (1/2" - 6")	1	304 Stainless Steel	Pre	ssure Tem	per	ature Ratings
17	Lever Handle (1/2" - 2")	1	304 Stainless Steel	1600			CLASS 600
18	Lever Lock (1/2" - 2")	1	304 Stainless Steel	1400	WCB		
19	Lever Cover (1/2" - 2")	1	Vinyl	1200			
20	Stem Packing Nut (1/2" - 6")	2	304 Stainless Steel	1000 800 008 Lessance (bSlg) 400 200		$\langle \cdot \rangle$	
21	Stud	Qty Varies	B7M / B7 / B8 / B8M / Alloy 20	<u>ຍ</u> ແ		F	RTFE NOVA
22	Nut	Qty Varies	2HM / 2H / 8M / Alloy 20	n 20 600			
23	Stem Nut	1	304 Stainless Steel	e e		PF	CLASS 300
24	Travel Stopper (2 1/2" - 12")	1	304 Stainless Steel		WCB		TFM PEEK
25	Wrench Block / Knuckle (2 1/2" - 12")	1	Galvanized Steel	≥ <sub>200</sub>	CF8M	LASS 150	
26	Screw (2 1/2" - 12")	1	Carbon Steel / Stainless Steel	100			
27	Pipe Handle (2 1/2" - 12")	1	Galvanized Steel		100 200	3(	00 400 500 600

Max Temperature (F)



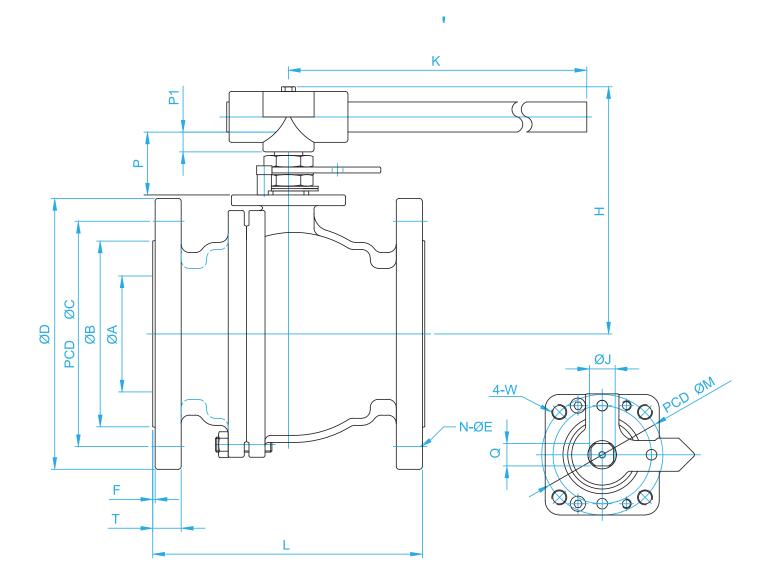
(1/2"-2")





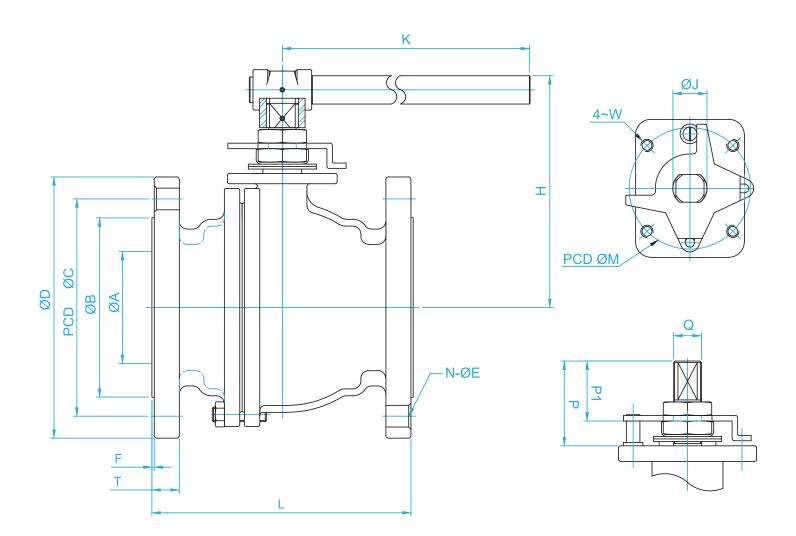


(2 1/2"-4")



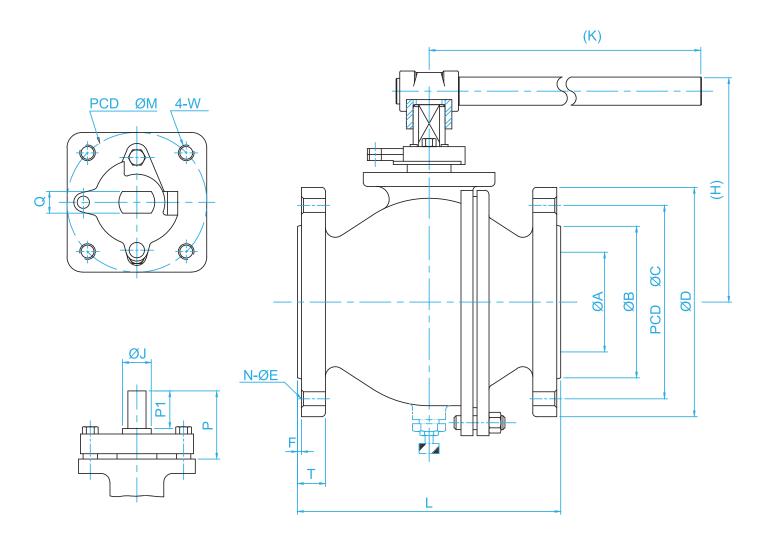


(6")





(8"-12")





#### **Dimension Chart**

	on Chart		٨		3	(	С	ſ	C		<		1
Unit	SIZE		A 200									450	
in	4./0//	150	300	150	300	150	300	150	300	150	300	150	300
in mm	1/2" 1/2"	.5 12.7	.5 12.7	1.38 1.38	1.38 35	2.38 60.4	2.62 66.5	3.5 88.9	3.74 94.9	6.5 165.1	6.5 165.1	4.25 107.9	5.5 139.7
in	3/4"	.75	.75	1.69	1.69	2.75	3.25	3.86	4.61	6.5	6.5	4.61	6
mm	19	19	19	1.69	42.9	69.8	82.5	98	4.61	165.1		117	152.4
in	1"	1	1	2	2.01	3.13	3.5	4.25	4.88	7.88	7.87	5	6.5
mm in	25.4 1 1/4"	25.4 1.25	25.4 1.25	50.8 2.5	51 2.52	79.5 3.5	88.9 3.88	4.63	123.9 5.24	7.88	199.8 7.87	127 5.5	165.1 7
mm	31.7	31.7	31.7	63.5	64	88.9	98.5	4.03	133	200.1	199.8		177.8
in	1 1/2"	1.5	1.5	2.87	2.87	3.88	4.51	5	6.14	9.84	9.84	6.5	7.5
mm	38.1	38.1	38.1	72.8	72.8	98.5	114.5				249.9		190.5
in mm	2" 50.8	2 50.8	2 50.8	3.62 91.9	3.62 91.9	4.75 120.6	5 127	6 1524	6.5 165.1		10.43	7 177.8	8.5 215.9
in	2 1/2"	2.5		4.13		5.5		7		13.31		7.5	
mm	63.5	63.5		104.9		139.7		177.8		338		190.5	
in	3" 76.2	3	3	5	5	6	6.61	7.5	8.27	13.31		8	11.14
mm in	4"	76.2 4	76.2 4	127 6.18	127 6.18	<u>152.4</u> 7.5	167.8 7.87	<u>190.5</u> 9	<u>8.27</u> 10	338 13.31	338 13.31	203.2 9	282.9 12
mm	101.6		101.6	6.18	6.18	190.5		228.6		338	338	228.6	304.8
in	6"	6	6	8.5	8.5	9.5	10.63	11	12.52		25.59		15.87
mm	152.4		152.4								649.9		403
in mm	8" 203.2	8 203 2	8 203.2	10.63 270	10.63 270	11.75 298.4	13 330	13.5 13.5	15 381	37.4 949 9	37.4 949 9	18 457.2	19.75 501.6
in	10"	10	10	12.75	12.75			16	17.48	43.31		21	22.36
mm	254	254	254	323.8	323.8	361.9	387.6	406.4	443.9	1100	1100	533.4	567.9
in mm	12"	12	12 304.8	15 381	15 381	17	17.76	19	20.51 520.9	43.31		24 609.6	25.5 647.7
	304.8	1304 0	304 8										
						401.0	451.1			1100	1100		
Unit			4	1	М	F	C	ŀ	P1	C	2	J	
Unit	Size												
Unit in mm		150 2.6	H 300 2.6	150 1.65	VI 300 1.65	F 150 .55	- 300 .55	150 .31	P1 300 .31	<b>150</b> .25	ע 300 25.	J 150 .37	300 .37
in mm in	Size 1/2" 12.7 3/4"	ا 150	⊣ 300	ا 150	И 300	F 150	- 300	l 150	>1 300	( 150	ג 300	J 150	300
in mm in mm	Size 1/2" 12.7 3/4" 19	150 2.6 66 2.91 73.9	<b>-</b> 300 2.6 66 2.91 73.9	150 1.65 41.9 1.65 41.9	V 300 1.65 41.9 1.65 41.9	<b>150</b> .55 13.9 .55 13.9	300 .55 13.9 .55 13.9	150 .31 7.87 .31 7.87	<b>21</b> 300 .31 7.87 .31 7.87	150 .25 6.35 .25 6.35	<b>300</b> .25 6.35 .25 6.35	J 150 .37 9.39	300 .37 9.39 .37 9.39
in mm in	Size 1/2" 12.7 3/4"	150 2.6 66 2.91 73.9 3.43	<b>-</b> <b>300</b> 2.6 66 2.91 73.9 3.43	<b>150</b> 1.65 41.9 1.65	VI 300 1.65 41.9 1.65	<b>150</b> .55 13.9 .55 13.9 .75	300 .55 13.9 .55	150 .31 7.87 .31 7.87 .43	<b>P1</b> <b>300</b> .31 7.87 .31 7.87 .43	150 .25 6.35 .25 6.35 .31	<b>2</b> 300 .25 6.35 .25 6.35 .31	J 150 .37 9.39 .37 9.39 .44	300 .37 9.39 .37 9.39 .44
in mm in mm in mm in	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4"	150 2.6 66 2.91 73.9	<b>-</b> 300 2.6 66 2.91 73.9	1.65 41.9 1.65 41.9 1.65 41.9	V 300 1.65 41.9 1.65 41.9 1.97	<b>150</b> .55 13.9 .55 13.9	300 .55 13.9 .55 13.9 .75	150 .31 7.87 .31 7.87	<b>D</b> 1 <b>300</b> .31 7.87 .31 7.87 .43 10.9 .43	150 .25 6.35 .25 6.35 .31 7.87 .31	<b>300</b> .25 6.35 .25 6.35	J 150 .37 9.39 .37 9.39	300 .37 9.39 .37 9.39
in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1	150 2.6 66 2.91 73.9 3.43 87.1 3.62 3.62	H 300 2.6 66 2.91 73.9 3.43 87.1 3.62 3.62	1.65 41.9 1.65 41.9 1.97 50 1.97 50	V 300 1.65 41.9 1.65 41.9 1.97 50 1.97 50	<b>150</b> .55 13.9 .55 13.9 .75 19 .75 19	300 .55 13.9 .55 13.9 .75 19 .75 19 .75 19	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9	300         .31         7.87         .31         7.87         .43         10.9         .43         10.9	150 .25 6.35 .25 6.35 .31 7.87 .31 7.87	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87	J 150 .37 9.39 .37 9.39 .44 11.1 .44 11.1	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1
in mm in mm in mm in	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4"	I         150           2.6         66           2.91         73.9           3.43         87.1           3.62         3.62           4.13         3	H 300 2.6 66 2.91 73.9 3.43 87.1 3.62 3.62 3.62 4.13	1.65 41.9 1.65 41.9 1.97 50 1.97 50 2.76	V 300 1.65 41.9 1.65 41.9 1.97 50 1.97 50 2.76	F 150 .55 13.9 .55 13.9 .75 19 .75 19 .75 19 .91	300 .55 13.9 .55 13.9 .75 19 .75 19 .75 19 .91	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55	21 300 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55	150 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87 .31	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87	J 150 .37 9.39 .37 9.39 .44 11.1 .44	300 .37 9.39 .37 9.39 .44 11.1 .44
in mm in mm in mm in mm in mm in	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1 1 1/2" 38.1 2"	I         150           2.6         66           2.91         73.9           3.43         87.1           3.62         3.62           4.13         104.9           4.5         4.5	300         2.6         66         2.91         73.9         3.43         87.1         3.62         3.62         4.13         104.9         4.5	150 1.65 41.9 1.65 41.9 1.97 50 1.97 50 2.76 70.1 2.76	V 300 1.65 41.9 1.65 41.9 1.97 50 1.97 50 2.76 70.1 2.76	F 150 .55 13.9 .55 13.9 .75 19 .75 19 .91 23.1 .91	300 .55 13.9 .55 13.9 .75 19 .75 19 .91 23.1 .91	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55	21 300 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55	150 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87 .37 9.39 .37	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .37 9.39 .37	J 150 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63
in mm in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1 1 1/2" 38.1 2" 50.8	I         150           2.6         66           2.91         73.9           3.43         87.1           3.62         3.62           4.13         104.9           4.5         114.3	300           2.6           66           2.91           73.9           3.43           87.1           3.62           3.62           4.13           104.9           4.5           114.3	150 1.65 41.9 1.65 41.9 1.97 50 1.97 50 2.76 70.1 2.76 70.1	V 300 1.65 41.9 1.65 41.9 1.97 50 2.76 70.1 2.76 70.1	F 150 .55 13.9 .55 13.9 .75 19 .75 19 .91 23.1 .91 23.1	300 .55 13.9 .55 13.9 .75 19 .75 19 .91 23.1 .91 23.1	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55 13.9	21 300 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .43 10.9 .55 13.9 .55 13.9	150 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87 .37 9.39 .37 9.39	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87 .31 7.87 9.39 .37 9.39	J 150 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16
in mm in mm in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1 1 1/2" 38.1 2" 50.8 2 1/2" 63.5	I         150           2.6         66           2.91         73.9           3.43         87.1           3.62         3.62           4.13         104.9           4.5         114.3           7.0         177.8	300         2.6         66         2.91         73.9         3.43         87.1         3.62         3.62         4.13         104.9         4.5	150 1.65 41.9 1.65 41.9 1.97 50 1.97 50 2.76 70.1 2.76	V 300 1.65 41.9 1.65 41.9 1.97 50 1.97 50 2.76 70.1 2.76	F 150 .55 13.9 .55 13.9 .75 19 .75 19 .91 23.1 .91	300 .55 13.9 .55 13.9 .75 19 .75 19 .91 23.1 .91	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55	21 300 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55	150 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87 .37 9.39 .37	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .37 9.39 .37	J 150 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63
in mm in mm in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1 1 1/2" 38.1 2" 50.8 2 1/2"	I         150           2.6         66           2.91         73.9           3.43         87.1           3.62         3.62           4.13         104.9           4.5         114.3           7.0         177.8           7.5         1	300         2.6         66         2.91         73.9         3.43         87.1         3.62         3.62         4.13         104.9         4.5         114.3	150 1.65 41.9 1.65 41.9 1.97 50 1.97 50 2.76 70.1 2.76 70.1 2.76 70.1 4.02 102.1 4.02	V 300 1.65 41.9 1.65 41.9 1.97 50 2.76 70.1 2.76 70.1 2.76 70.1	F 150 .55 13.9 .55 13.9 .75 19 .75 19 .91 23.1 .91 23.1 2.19	300 .55 13.9 .55 13.9 .75 19 .75 19 .91 23.1 .91 23.1	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55 13.9 .55 13.9 .71	21 300 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .43 10.9 .55 13.9 .55 13.9	150 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87 .37 9.39 .37 9.39	J 150 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .87	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16
in mm in mm in mm in mm in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1.1/4" 38.1 1.1/2" 38.1 2" 50.8 2.1/2" 63.5 3" 76.2 4"	150           2.6           66           2.91           73.9           3.43           87.1           3.62           4.13           104.9           4.5           114.3           7.0           177.8           7.5           190.5           8.17	300         2.6         66         2.91         73.9         3.43         87.1         3.62         3.62         4.13         104.9         4.5         114.3            7.13         181.1         7.8	150           1.65           41.9           1.65           41.9           1.97           50           2.76           70.1           2.76           70.1           4.02           102.1           4.02           102.1           4.02           102.1           4.02	300         1.65         41.9         1.65         41.9         1.97         50         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         4.02         102.1         4.02	150         .55         13.9         .55         13.9         .75         19         .75         .91         23.1         2.19         55.6         2.09         53         2.09         53         2.09         53	300 .55 13.9 .55 13.9 .75 19 .75 19 .75 19 .91 23.1 .91 23.1 .91 23.1 2.09 53 2.09	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55 13.9 .55 13.9 .71 18 .71 18 .71	300         .31         7.87         .31         7.87         .43         10.9         .43         10.9         .55         13.9         .55         13.9         .55         13.9         .71         .71         .71         .71         .71	150         .25         6.35         .25         6.35         .31         7.87         .31         7.87         .31         7.87         .31         7.87         .31         7.87         .37         9.39         .75         19         .75         19         .75         19         .75         19         .75         19         .75         19         .75         .75         .75         .75         .75	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87 .31 7.87 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 .37 .37 .37 .37 .37 .37 .37	J 150 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .87 22 .87 22 .87	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .63 16 .87 22 .87
in mm in mm in mm in mm in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1 1 1/2" 38.1 2" 50.8 2 1/2" 63.5 3" 76.2 4" 101.6	I         150           2.6         66           2.91         73.9           3.43         87.1           3.62         4.13           104.9         4.5           114.3         7.0           7.7.8         7.5           190.5         8.17           207.5         8.17	300         2.6         66         2.91         73.9         3.43         87.1         3.62         4.13         104.9         4.5         114.3            7.13         181.1         7.8         198.1	150           1.65           41.9           1.65           41.9           1.65           41.9           1.97           50           2.76           70.1           2.76           70.1           4.02           102.1           4.02           102.1           4.02           102.1	300         1.65         41.9         1.65         41.9         1.97         50         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         4.02         102.1         4.02         102.1	150         .55         13.9         .55         13.9         .75         19         .75         19         .75         .91         23.1         .91         23.1         .91         23.1         .91         23.1         .91         23.1         .91         23.1         .91         .92         .93         .91         .93         .91         .93         .91         .92         .93         .91         .93         .91         .92         .93         .93         .93         .93         .93         .93         .93         .93         .93         .93         .93         .94         .95	300 .55 13.9 .55 13.9 .75 19 .75 19 .75 19 .75 19 .23.1 .91 23.1 23.1 23.1 23.1 23.1 23.1 23.1 23.	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55 13.9 .55 13.9 .71 18 .71 18 .71 18	300         .31         7.87         .31         7.87         .43         10.9         .43         10.9         .55         13.9         .55         13.9         .55         13.9         .71         .8         .71         18         .71         .8         .71         .8	150 .25 6.35 .25 6.35 .31 7.87 .31 7.87 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 19 .39 19 .37 19 .37 19 .37 19 .37 19 .37 19 .39 19 .37 .37 .37 .37 .37 .37 .37 .37 .37 .37	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 19 .37 19 .37 19 .31 .37 .37 .37 .37 .37 .37 .37 .37	J 150 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .87 22 .87 22 .87 22 .87 22	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .63 16 .63 16 .87 22 .87 22
in mm in mm in mm in mm in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1 1 1/2" 38.1 2 " 50.8 2 1/2" 63.5 3" 76.2 4" 101.6 6" 152.4	I         150           2.6         66           2.91         73.9           3.43         87.1           3.62         4.13           104.9         4.5           114.3         7.0           177.8         7.5           190.5         8.17           207.5         11.73	300         2.6         66         2.91         73.9         3.43         87.1         3.62         3.62         4.13         104.9         4.5         114.3            7.13         181.1         7.8	1.65         41.9         1.65         41.9         1.65         41.9         1.97         50         2.76         70.1         2.76         70.1         4.02         102.1         4.02         102.1         4.02         102.1         4.92	300         1.65         41.9         1.65         41.9         1.97         50         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         4.02         102.1         4.92	150         .55         13.9         .55         13.9         .75         19         .75         .91         23.1         .91         23.1         .91         23.1         .91         23.1         .91         23.1         .91         .93         .91         .93         .93         .94         .95         .95         .91         .93         .93         .94         .95         .95         .91         .93         .93         .94         .95         .95         .93         .93         .943	300 .55 13.9 .55 13.9 .75 19 .75 19 .75 19 .91 23.1 .91 23.1 .91 23.1 2.09 53 2.09	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55 13.9 .55 13.9 .71 18 .71 18 .71	300         .31         7.87         .31         7.87         .43         10.9         .43         10.9         .55         13.9         .55         13.9         .55         13.9         .71         .71         .71         .71         .71	150         .25         6.35         .25         6.35         .31         7.87         .31         7.87         .31         7.87         .31         7.87         .31         7.87         .37         9.39         .75         19         .75         19         .75         19         .75         19         .75         19         .75         19         .75         .75         .75         .75         .75	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87 .31 7.87 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 .37 .37 .37 .37 .37 .37 .37	J 150 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .87 22 .87 22 .87	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .63 16 .87 22 .87
in mm in mm in mm in mm in mm in mm in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1 1 1/2" 38.1 2" 50.8 2 1/2" 63.5 3" 76.2 4" 101.6 6"	I         150           2.6         66           2.91         73.9           3.43         87.1           3.62         4.13           104.9         4.5           114.3         7.0           177.8         7.5           190.5         8.17           207.5         11.73	300         2.6         66         2.91         73.9         3.43         87.1         3.62         4.13         104.9         4.5         114.3            7.13         181.1         7.8         198.1         12.13	1.65         41.9         1.65         41.9         1.65         41.9         1.97         50         2.76         70.1         2.76         70.1         4.02         102.1         4.02         102.1         4.92         102.1         4.92         124.9         4.92         124.9         4.92	300         1.65         41.9         1.65         41.9         1.97         50         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         4.02         102.1         4.92	150         .55         13.9         .55         13.9         .75         19         .75         19         .75         .91         23.1         .91         23.1         .91         23.1         .91         23.1         .91         23.1         .91         .93         .91         .93         .91         .93         .91         .93         .93         .94         .95         .91         .93         .91         .93         .91         .93         .93         .94         .95         .93         .94         .95         .95         .94         .95         .95         .95         .95         .95         .95         .95         .95	300 .55 13.9 .55 13.9 .75 19 .75 19 .75 19 .91 23.1 23.1 23.1 23.1 23.1 23.1 23.1 23.	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .55 13.9 .55 13.9 .55 13.9 .71 18 .71 18 .71 18 .71 18 .2.42	300         .31         7.87         .31         7.87         .43         10.9         .43         10.9         .55         13.9         .55         13.9         .55         13.9         .71         .8         .71         18         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .71         .74         .75	150 .25 6.35 .25 6.35 .31 7.87 .31 7.87 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 19 .37 19 .37 19 .37 19 .37 19 .37 19 .37 19 .39 .37 19 .37 19 .37 19 .37 19 .37 19 .37 19 .37 19 .39 .37 19 .39 .37 19 .37 19 .39 .37 19 .37 19 .39 .37 19 .39 19 .37 19 .37 19 .37 19 .39 19 .39 19 .37 19 .37 19 .37 19 .37 19 .39 19 .37 19 .37 19 .37 19 .39 19 .37 19 .37 19 .37 19 .37 19 .37 19 .37 19 .37 19 .37 19 .37 19 .37 19 .39 19 .37 19 .37 19 .37 19 .37 19 .31 .37 .37 .37 .37 .37 .37 .37 .37 .39 .39 .39 .37 .37 .37 .37 .37 .37 .39 .39 .39 .37 .39 .39 .39 .39 .39 .39 .31 .37 .37 .39 .39 .39 .31 .37 .31 .37 .37 .37 .37 .37 .39 .39 .39 .39 .39 .39 .31 .37 .31 .37 .37 .39 .31 .31 .31 .31 .31 .31 .31 .31 .31 .31	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .31 7.87 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 .37 .31 .37 .37 .37 .37 .37 .37 .37 .37	J 150 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .87 22 .87 22 .87 22 .87 22 .87 22 .87 22 .87 22 .87	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .63 16 .63 16 .87 22 .87 22 .87 22 1.38
in mm in mm in mm in mm in mm in mm in mm in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1 1 1/2" 38.1 2 " 50.8 2 1/2" 63.5 3" 76.2 4" 101.6 6" 152.4 8"	150           2.6           66           2.91           73.9           3.43           87.1           3.62           4.13           104.9           4.5           114.3           7.0           177.8           7.5           190.5           8.17           207.5           11.73           297.9           12.6           320           14.65	300         2.6         66         2.91         73.9         3.43         87.1         3.62         4.13         104.9         4.5         114.3            7.13         181.1         7.8         198.1         12.73         308.1         12.72         323         14.49	150         1.65         41.9         1.65         41.9         1.97         50         1.97         50         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         4.02         102.1         4.02         102.1         4.92         124.9         4.92         124.9         5.51	300         1.65         41.9         1.65         41.9         1.97         50         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         4.02         102.1         4.02         102.1         4.92         124.9         4.92         124.9         5.51	150         .55         13.9         .55         13.9         .55         13.9         .75         19         .75         19         .75         19         .75         .91         23.1         2.19         55.6         2.09         53         3.43         87.1         3.58         90.9         3.86	300 .55 13.9 .55 13.9 .75 19 .75 .75 19 .75 .75 .75 .75 .75 .75 .75 .75 .75 .75	150         .31         7.87         .31         7.87         .43         10.9         .43         10.9         .55         13.9         .55         13.9         .71         .8         .71         18         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .9         .2.42         .61.4         1.65         41.9         2.13	300         .31         7.87         .31         7.87         .43         10.9         .43         10.9         .43         10.9         .43         10.9         .43         10.9         .43         10.9         .55         13.9         .55         13.9         .55         13.9         .55         13.9         .55         13.9         .55         13.9         .55         13.9         .55         13.9         .55         13.9         .55         .71         18         .71         18         .2.42         .61.4         1.65         41.9         2.13	150 .25 6.35 .25 6.35 .31 7.87 .31 7.87 9.39 .37 9.39 .37 9.39 .37 9.39 .75 19 .75 19 .75 19 .75 19 .75 19 .122 1.122 1.02 1.02 1.38	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 1.12 28.4 1.02 1.02 1.38	J 150 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .63 16 .87 22 .87 22 .87 22 .87 22 .87 22 .87 22 .87 22 .87 22 .1,38 35 .1,71 4,3,4 1.97	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .63 16 .63 16  .87 22 .87 22 .87 22 .87 22 .1.38 35 1.71 43.4 2.17
in mm in mm in mm in mm in mm in mm in mm in mm in mm in mm	Size 1/2" 12.7 3/4" 19 1" 25.4 1 1/4" 38.1 1 1/2" 38.1 2 " 50.8 2 1/2" 63.5 3" 76.2 4" 101.6 6" 152.4 8" 203.2 10"	I           150           2.6           66           2.91           73.9           3.43           87.1           3.62           4.13           104.9           4.5           114.3           7.0           177.8           7.5           190.5           8.17           207.5           11.73           297.9           12.6           320           14.65           372.1	300         2.6         66         2.91         73.9         3.43         87.1         3.62         4.13         104.9         4.5         114.3            7.13         181.1         7.8         198.1         12.72         323         14.49         14.49         16.06	150         1.65         41.9         1.65         41.9         1.97         50         1.97         50         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         4.02         102.1         4.02         102.1         4.92         124.9         4.92         124.9         5.51         139.9         5.51	300         1.65         41.9         1.65         41.9         1.97         50         2.76         70.1         2.76         70.1         2.76         70.1         2.76         70.1         4.02         102.1         4.02         102.1         4.92         124.9         4.92         124.9         5.51	150         .55         13.9         .55         13.9         .55         13.9         .75         19         .75         19         .75         19         .75         .91         23.1         2.19         55.6         2.09         53         3.43         87.1         3.58         90.9         3.86         98         3.86	300 .55 13.9 .55 13.9 .75 19 .75 .75 .19 .75 .19 .75 .19 .75 .19 .23.10 .23.20 .23.23.20 .23.20.20 .23.20.20 .23.20.20 .23.20.20 .23.20.20.20.20.20.20.20.20	150 .31 7.87 .31 7.87 .43 10.9 .43 10.9 .43 10.9 .55 13.9 .55 13.9 .55 13.9 .55 13.9 .55 13.9 .55 13.9 .55 13.9 .71 18 .71 18 .71 18 .2.42 61.4 1.65 41.9	300         .31         7.87         .31         7.87         .43         10.9         .43         10.9         .43         10.9         .43         10.9         .43         10.9         .43         .55         13.9         .55         13.9         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .71         .8         .74         .75         .71         .74         .75 <tr tr=""> <tr tr=""></tr></tr>	150         .25         6.35         .25         6.35         .31         7.87         .31         7.87         9.39         .37         9.39         .75         19         .75         19         .75         19         .75         19         .75         19         .75         19         .75         19         .122         1.02         1.02	2 300 .25 6.35 .25 6.35 .31 7.87 .31 7.87 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 9.39 .37 1.12 28.4 1.02 1.02 1.02	J 150 .37 9.39 .44 11.1 .44 11.1 .63 .63 .16 .63 .16 .63 .16 .87 .22 .87 .22 .87 .22 .87 .22 .87 .22 .87 .22 .87 .22 .38 .38 .22 .38 .35 .38 .35 .35 .37 .38 .35 .35 .35 .35 .35 .35 .37 .35 .35 .35 .35 .35 .35 .35 .35 .35 .35	300 .37 9.39 .37 9.39 .44 11.1 .44 11.1 .63 16 .63 16 .63 16 .63 16  .87 22 .87 22 .87 22 .87 22 .1.38 35 1.71 43.4



#### **Dimension Chart (Continued)**

Unit	Jnit Size		T		T F		1	N		Ξ	W (Meti	ric Bolt)
Unit	Size	150	300	150	300	150	300	150	300	150	300	
in mm	1/2" 12.7	.44 11.1	.56 14.2	.06 1.52	.06 1.52	101.6 2580.6	101.6 2580.6	.63 16	.63 .63	M5X0.8	M5X0.8	
in mm	3/4" 19	.50 12.7	.63 16	.06 1.52	.06 1.52	101.6 2580.6	101.6 2580.6	.63 16	.75 19	M5X0.8	M5X0.8	
in mm	1" 25.4	.56 14.2	.69 17.5	.06 1.52	.06 1.52	101.6 2580.6	101.6 2580.6	.63 16	.75 19	M6X1.0	M6X1.0	
in mm	1 1/4" 31.7	.63 16	.75 19	.06 1.52	.06 1.52	101.6 2580.6	101.6 2580.6	.63 16	.75 19	M6X1.0	M6X1.0	
in mm	1 1/2" 38.1	.69 17.5	.81 20.5	.06 1.52	.06 1.52	101.6 2580.6	101.6 2580.6	.63 16	.87 22	M8X1.25	M8X1.25	
in mm	2" 50.8	.75 19	.88 22.3	.06 1.52	.06 1.52	101.6 2580.6	203.2 5161.2	.75 19	.75 19	M8X1.25	M8X1.25	
in mm	2 1/2" 63.5	.88 22.3		.06 1.52		101.6 2580.6		.75 19		M10X1.5		
in mm	3" 76.2	.77	1.13 28.7	.06 1.52	.06 1.52	101.6 2580.6	203.2 5161.2	.75 19	.87 22	M10X1.5	M10X1.5	
in mm	4" 101.6	.94 23.8	1.25 31.7	.06 1.52	.06 1.52	203.2 5161.2	203.2 5161.2	.75 19	.87 22	M10X1.5	M10X1.5	
in mm	6" 152.4	1.0 25.4	1.44 36.5	.06 1.52	.06 1.52	203.2 5161.2	304.8 7741.9	.87 22	.87 22	M12X1.75	M12X1.75	
in mm	8" 203.2	1.13 28.7	1.63 41.4	.06 1.52	.06 1.52	203.2 5161.2	304.8 7741.9	.87 22	1.0 25.4	M12X1.75	M12X1.75	
in mm	10" 254	1.19 30.2	1.88 47.7	.06 1.52	.06 1.52	304.8 7741.9	406.4 10322.5	1.0 25.4	1.14 28.9	M16X2.0	M16X2.0	
in mm	12" 304.8	1.25 31.7	2.0 50.8	.06 1.52	.06 1.52	304.8 7741.9	406.4 10322.5	1.0 25.4	1.26 32	M16X2.0	M16X2.0	

#### **MANUFACTURING & TESTING STANDARDS**

Davier	ASME B16.34				
Design	API 608				
Face to Face Dim	ASME B16.10				
Flange Dimensions	ASME B16.5				
Valve Wall Thickness	ASME B16.34				
NACE	MR0175				
Testing	API 6D				
Firesafe	API 607 4th				



# **SERIES YFS**

- ◆ Sizes ½ 12″ 2-Piece Flanged Floating Design
- Full or Reduced Port
- API-608, API 607, NACE MR0175 Compliant
- Fire Safe Design, ISO 5211 Mounting Pad, Anti-Static Device
- Live Loaded Stem Packing

Series	Class	Body	Trim	Seats	Seals	Ends	Operato	· Options	Size
Series YFS	15 - 150	1 - Carbon	2 - Alloy 20	H - TFM	G - Grafoi	RF - Raised	L - Lever	O2 - Oxygen	1/2"
		Steel				Face	Handle	Prep	3/4"
Series RYFS	30 - 300		3 - 316SS	N - Nova					1"
(Reduce)		2 - Alloy 20				RTJ - Ring			1 1/4"
Port			4 - A276 Grade	P - PEEK		Type Joint	Operator	Containment	1 1/2"
		3 - 316SS	410					Bonnet	2"
				R - Reinforced					2 1/2"
		5 - Hastelloy C	5 - Hastelloy C	Teflon				SE - Stem	3"
								Extension	4"
		L - A350 Grade	X - Special	T - Teflon					6"
		LF2						X - Special	8"
				U - UHMWPE					10"
		X - Special							12"
YFS	15	0 1	3 F	1 <u>G</u>	RF	L	_	02	
Series	Clas	s Body	Trim Sea	ats Seals	Ends C	)perator C	options	Size	

### **Description:**

Class 150, 2-Piece Floating Design, Raised Face, Full Port, A216-WCB Investment Cast Body, F316 Stainless Steel Trim, Fire-safe, TFM Seats with Graphite Stem Packing and Gaskets, ISO 5211 Mounting Pad, Anti-Static Device, Solid Ball, Live Load Stem Packing, Blowout Proof Stem with Heavy Duty Travel Stopper with Secure Locking Lever Handle. Designed to API 608, B16.34, B16.5, B16.10, Fire-tested to API 607, Tested to API 6D, NACE MR0175 Compliant

**PLEASE NOTE:** There may be some performance variations between the GVC Series YFS and other manufacturer's comparable body designs. To ensure the longevity of performance, please provide specific information relevant to the requirements needed for each application process.



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Please contact our sales representatives to receive more infromation regarding your systems particular needs.

Due to the ongoing development of our product line, Global Valve & Controls reserves the right to change the dimensions contained in the leaflet, as required.