

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



SERIES YFS



**GLOBAL VALVE
& CONTROLS**



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

DEPEND ON US. WE CAN HANDLE THE PRESSURE.



SERIES G



GF-3



SERIESCK



GLF-4



SERIESGL



CKF-2



NVG6000



NV10000



™



20-RP



20-FP

GLOBAL VALVE & CONTROLS



SERIES SBG



SERIES EXPG



SERIES FS



BV2000



SERIES 2T/3T



BV3600



BV6000



YFS w/ MCB



CFS



SERIES 790



SERIES 30



BV3705



SERIES 10



SERIES 800



SERIES FSD-61

Discover the difference!

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®  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.

 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® 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.

 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!

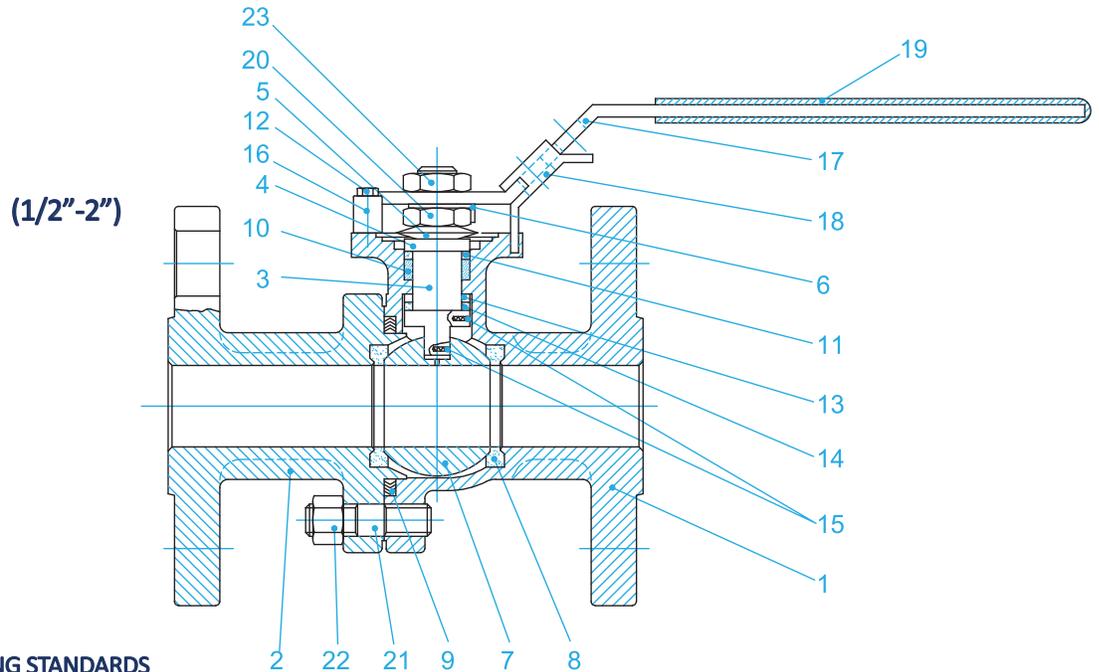
Sincerely

Troy Richard
CEO at GLOBAL Valve & Controls



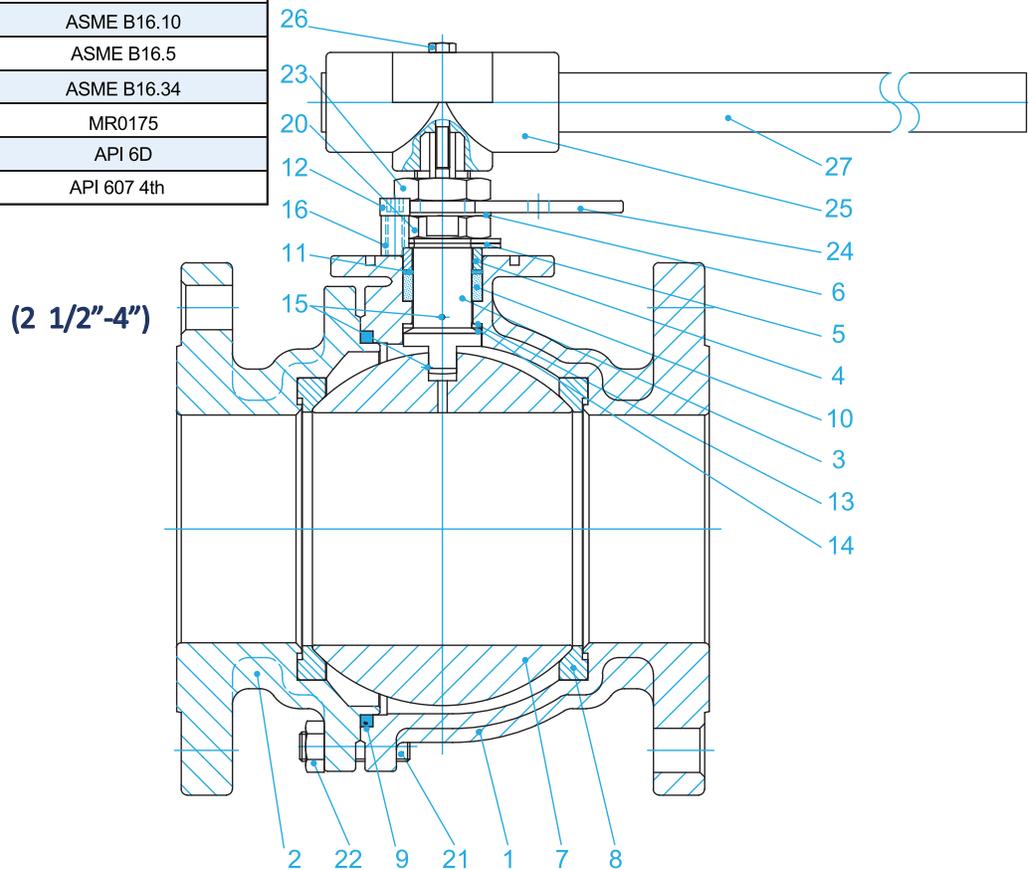
MATERIALS OF CONSTRUCTION

SERIES YFS



MANUFACTURING & TESTING STANDARDS

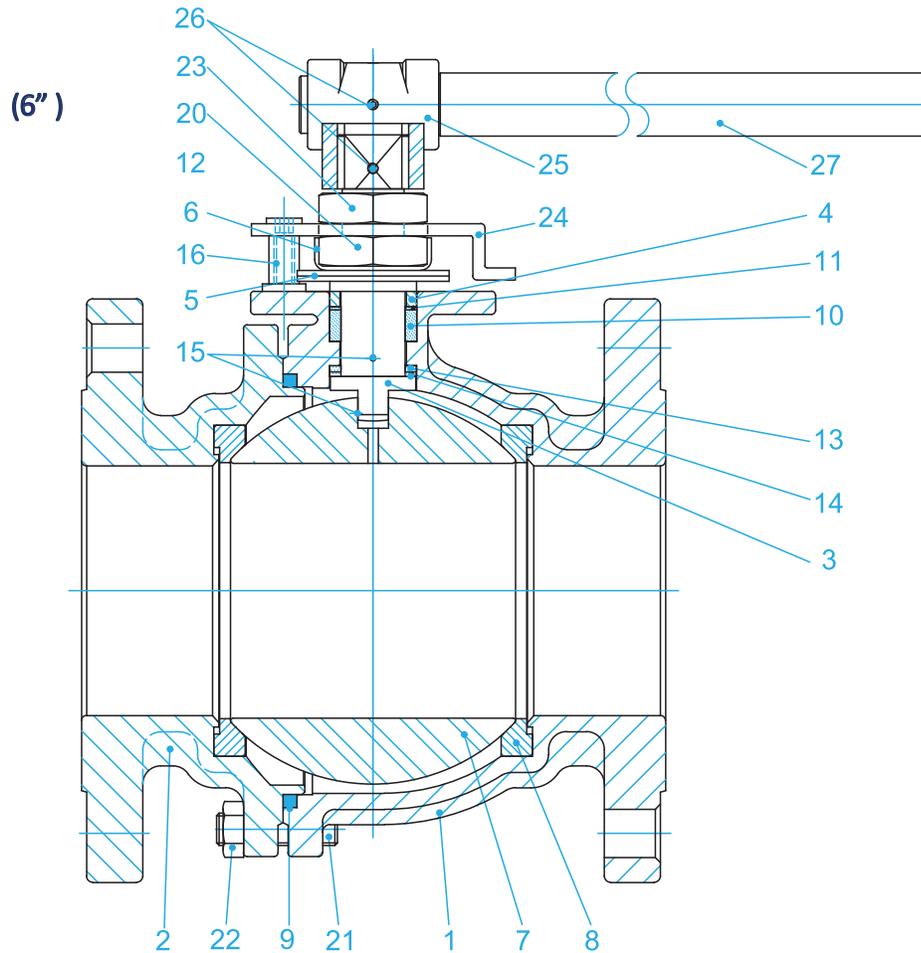
Design	ASME B16.34
	API 608
Face to Face Dim	ASME B16.10
Flange Dimensions	ASME B16.5
Valve Wall Thickness	ASME B16.34
NACE	MR0175
Testing	API 6D
Firesafe	API 607 4th





MATERIALS OF CONSTRUCTION

SERIES YFS



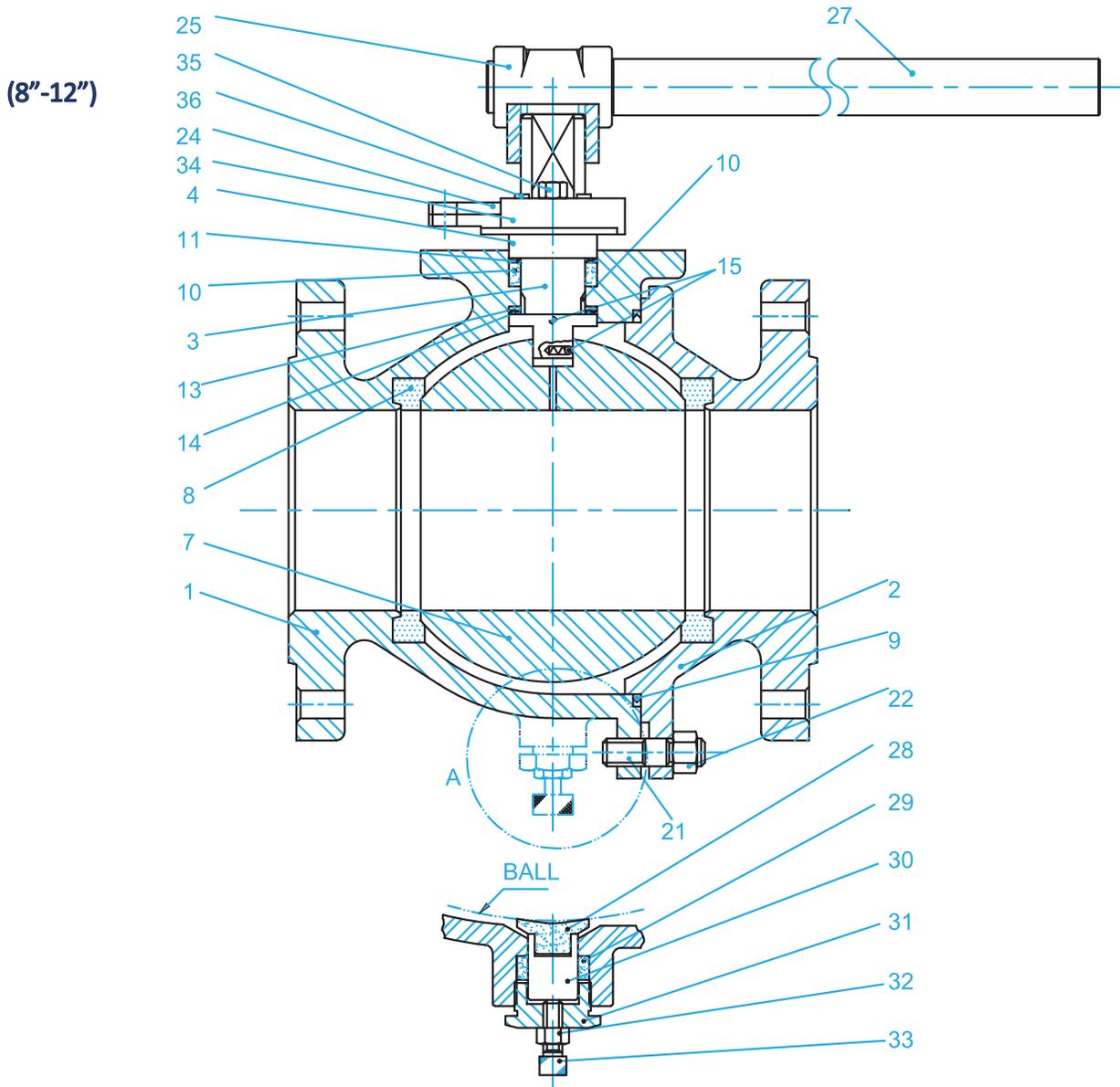
MANUFACTURING & TESTING STANDARDS

Design	ASME B16.34
	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
	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 AND ENGINEERING DATA

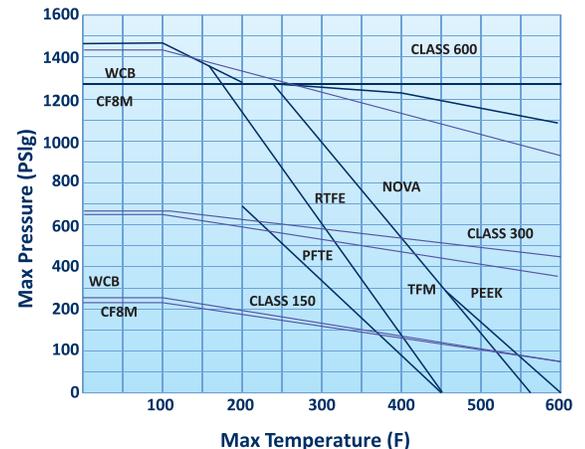
SERIES YFS

Bill of Materials

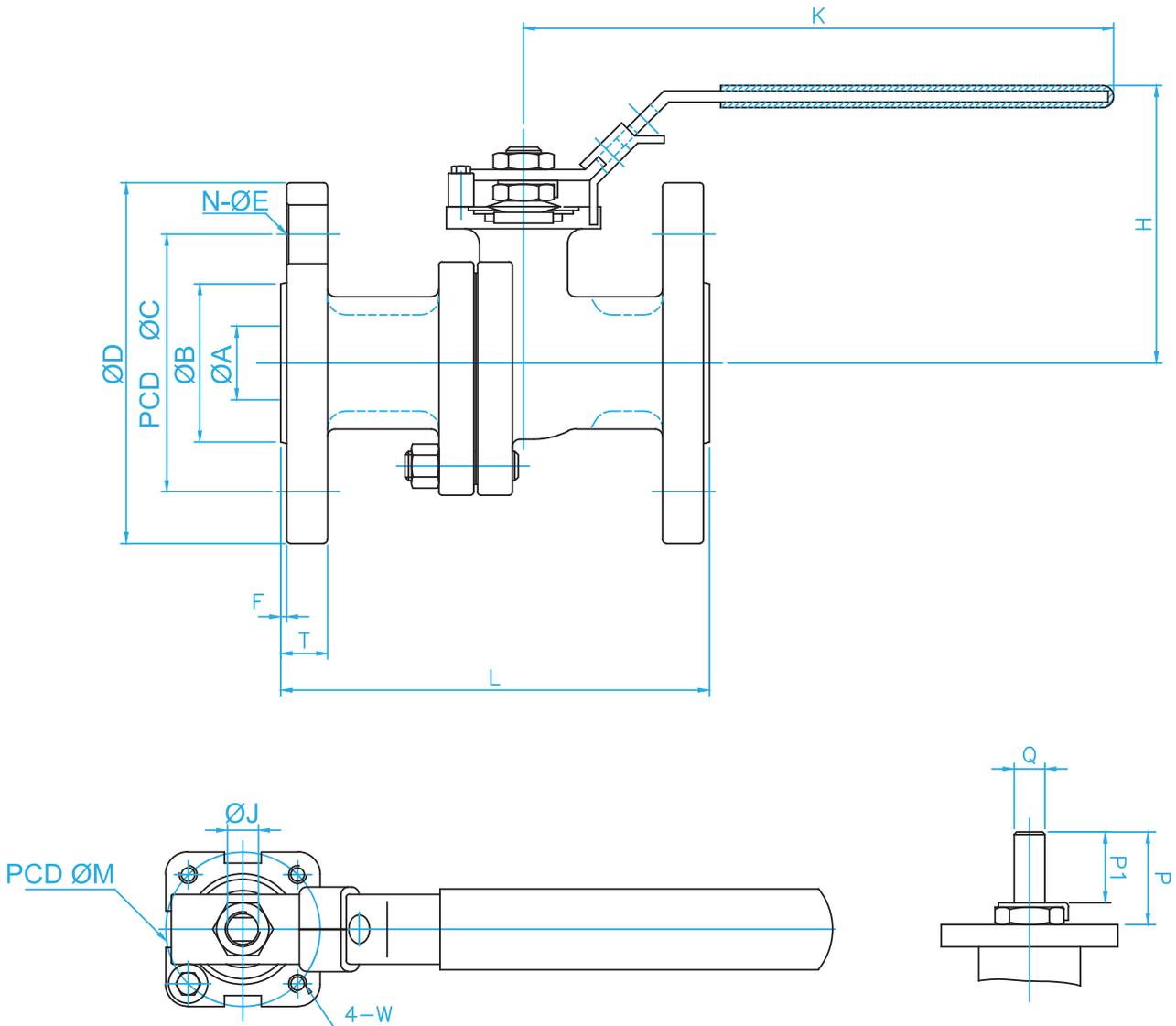
NO.	PART NAME	QTY	MATERIAL
1	Body	1	Alloy 20
			Carbon Steel
			Hastelloy C
			Monel
			316 Stainless Steel
2	End Cap	1	Alloy 20
			Carbon Steel
			Hastelloy C
			Monel
			316 Stainless Steel
3	Stem	1	Alloy 20 / Hastelloy C / 17-4Ph / 316 Stainless Steel
4	Packing Gland	1	304 Stainless Steel
5	Belleville Washers (1/2" - 6")	2	301 Stainless Steel / Inconel X-750
6	Lock Tab (1/2" - 6")	1	304 Stainless Steel
7	Ball	1	Alloy 20 / Hastelloy C / Monel / 316 Stainless Steel
8	Seat	2	NOVA / PEEK / RTFE / TFE / TFM / UHMWPE
9	Gasket	1	Spiral Wound Wire (316/Graphite)
10	Stem Packing	1	NOVA / RTFE / TFE / TFM / Graphoil
11	Thrust Washer	1	50% PTFE + 50% 316
12	Cap Screw (1/2" - 6")	1	Carbon Steel / Stainless Steel
13	Lower Stem Packing	1	RPTFE
14	Lower Thrust Washer	1	50% PTFE + 50% 316
15	Anti-Static Device	2	316 Stainless Steel
16	Stop Pin (1/2" - 6")	1	304 Stainless Steel
17	Lever Handle (1/2" - 2")	1	304 Stainless Steel
18	Lever Lock (1/2" - 2")	1	304 Stainless Steel
19	Lever Cover (1/2" - 2")	1	Vinyl
20	Stem Packing Nut (1/2" - 6")	2	304 Stainless Steel
21	Stud	Qty Varies	B7M / B7 / B8 / B8M / Alloy 20
22	Nut	Qty Varies	2HM / 2H / 8M / Alloy 20
23	Stem Nut	1	304 Stainless Steel
24	Travel Stopper (2 1/2" - 12")	1	304 Stainless Steel
25	Wrench Block / Knuckle (2 1/2" - 12")	1	Galvanized Steel
26	Screw (2 1/2" - 12")	1	Carbon Steel / Stainless Steel
27	Pipe Handle (2 1/2" - 12")	1	Galvanized Steel

NO.	PART NAME	QTY	MATERIAL
28	Pin Seat (10" - 12") 150 lb (6" - 12") 300 lb	1	RPTFE
			Graphite
29	Pin Packing (10" - 12") 150 lb (6" - 12") 300 lb	1	Graphite
30	Trunnion Support (10" - 12") 150 lb (6" - 12") 300 lb	1	316 Stainless Steel
31	Bottom Trunnion Nut (10" - 12") 150 lb (6" - 12") 300 lb	1	304 Stainless Steel
32	Trunnion Set Nut (10" - 12") 150 lb (6" - 12") 300 lb	1	304 Stainless Steel
33	Trunnion Screw (10" - 12") 150 lb (6" - 12") 300 lb	1	304 Stainless Steel
34	Stem Gland (8" - 12")	1	304 Stainless Steel
35	Gland Bolts (8" - 12")	2	304 Stainless Steel
36	Snap Ring (8" - 12")	1	Nickel Plated Carbon Steel

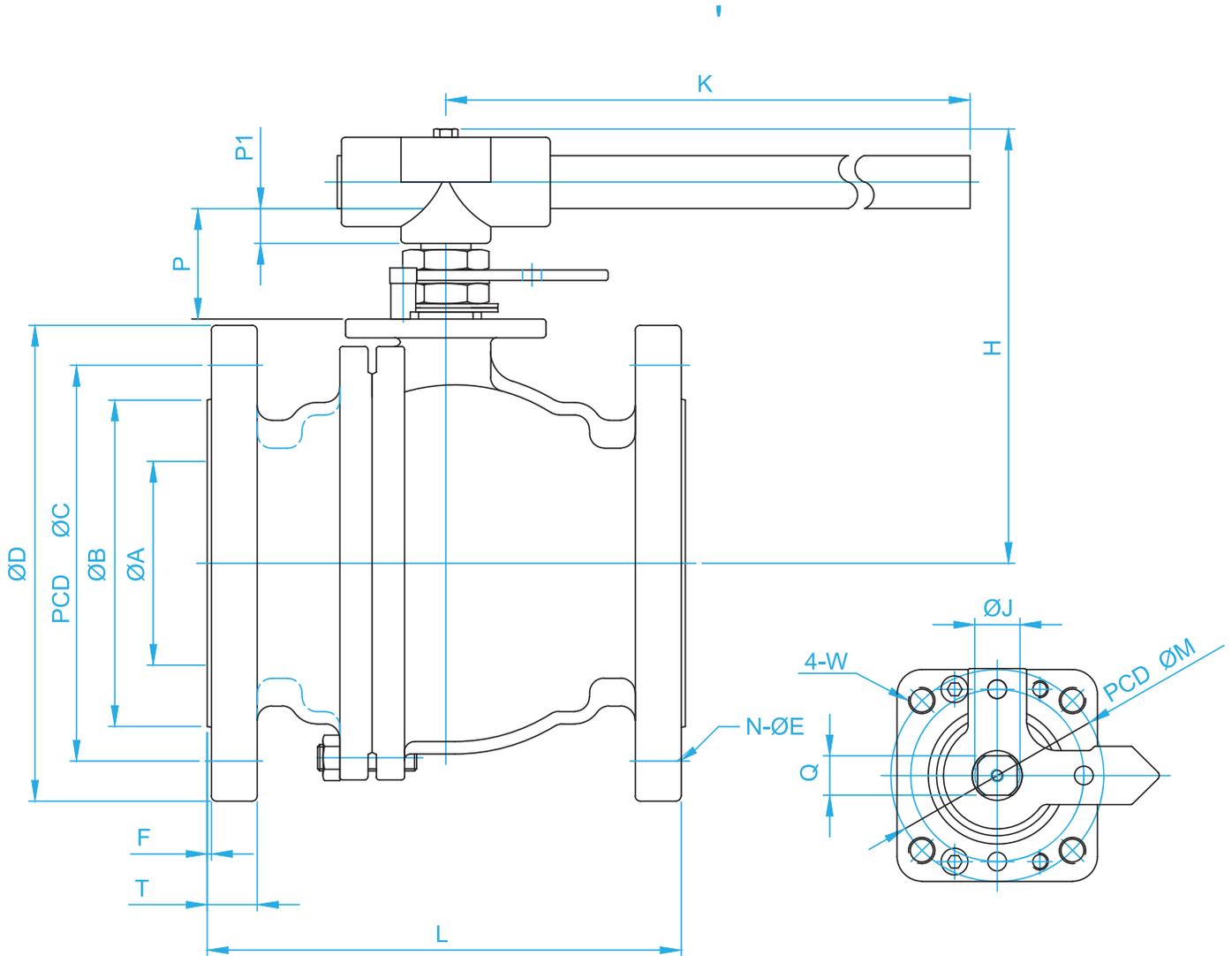
Pressure Temperature Ratings



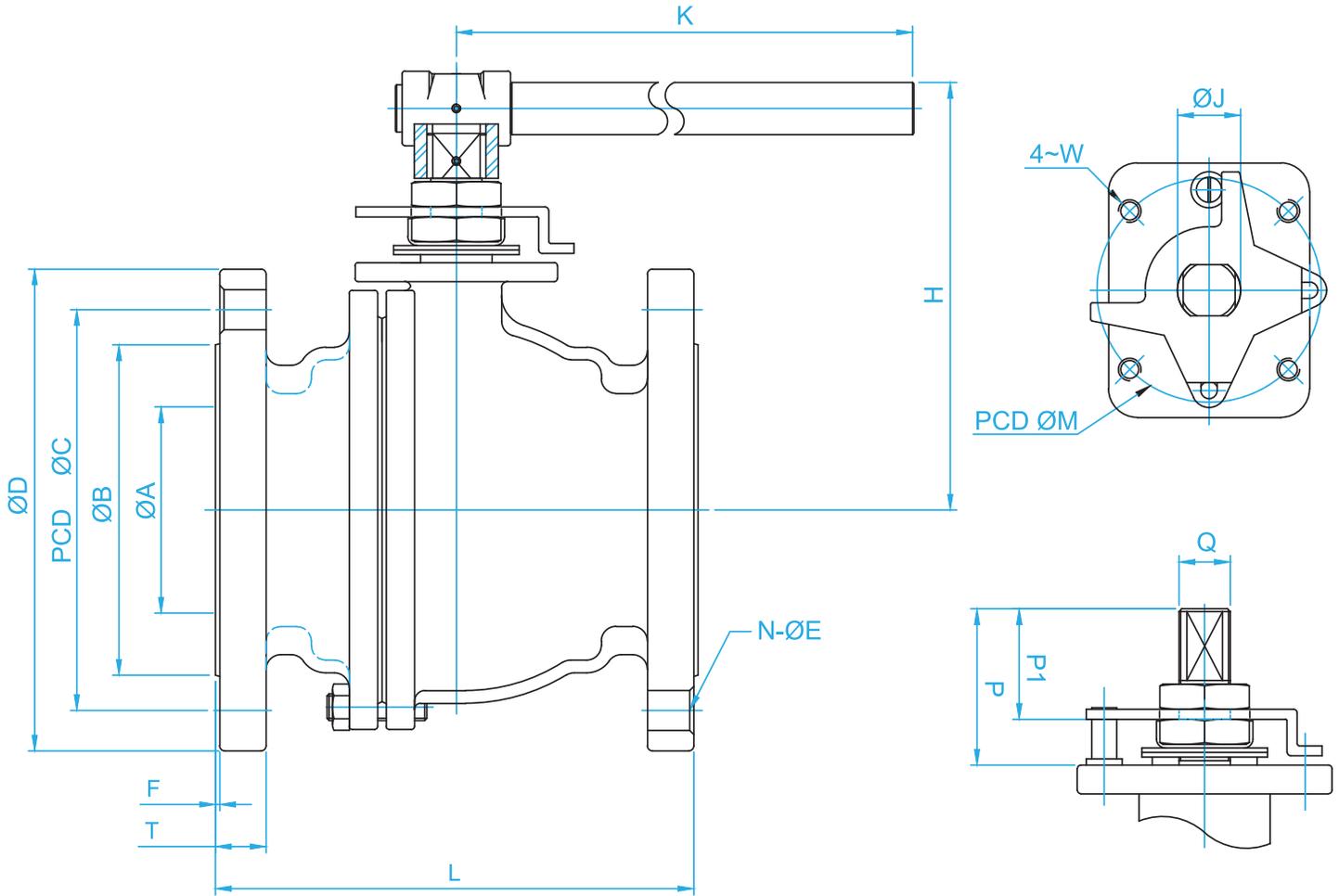
(1/2"-2")



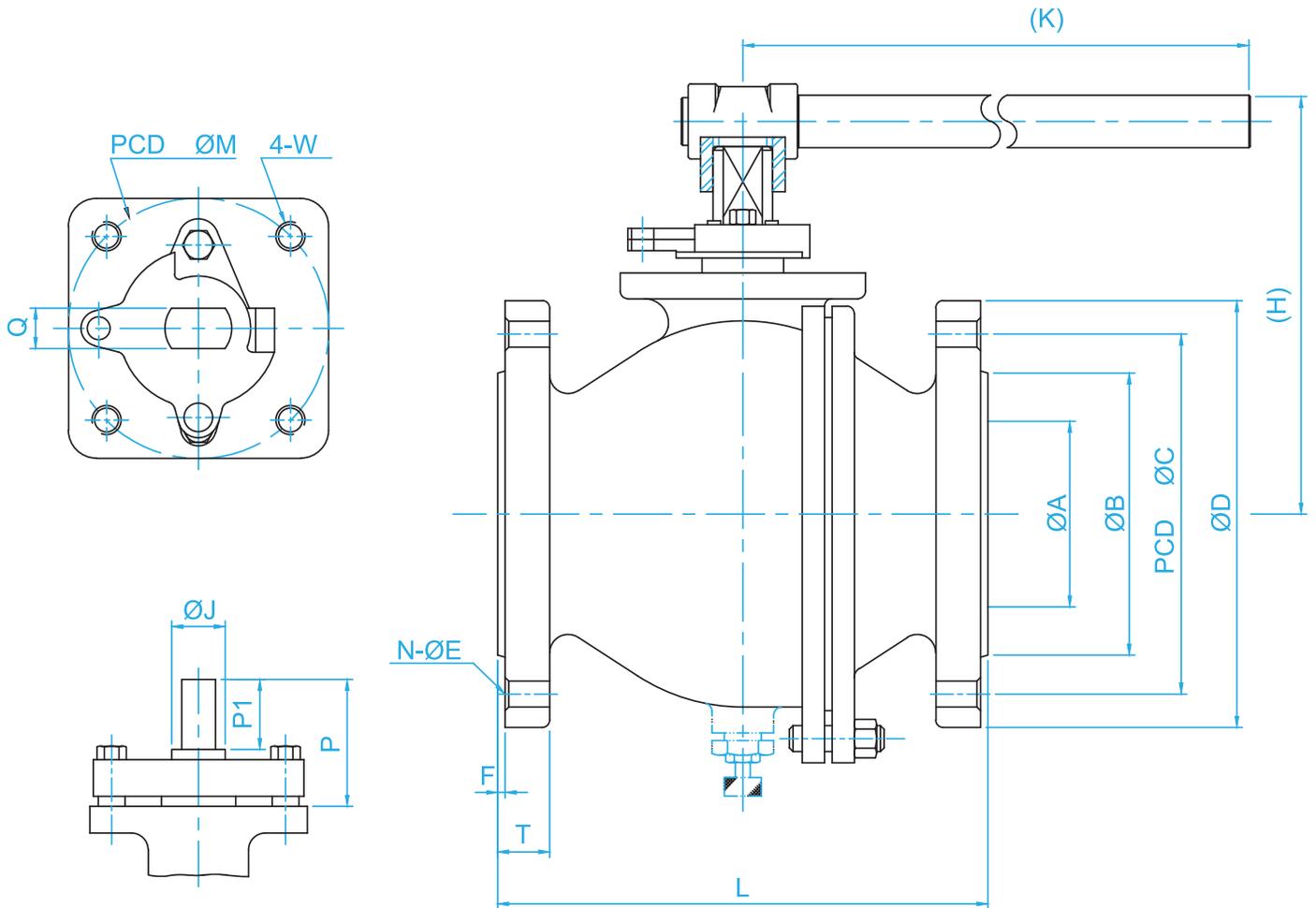
(2 1/2"-4")



(6")



(8"-12")



Dimension Chart

Unit	SIZE	A		B		C		D		K		L	
		150	300	150	300	150	300	150	300	150	300	150	300
in	1/2"	.5	.5	1.38	1.38	2.38	2.62	3.5	3.74	6.5	6.5	4.25	5.5
mm	12.7	12.7	12.7	35	35	60.4	66.5	88.9	94.9	165.1	165.1	107.9	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	42.9	42.9	69.8	82.5	98	4.61	165.1	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	25.4	25.4	25.4	50.8	51	79.5	88.9	107.9	123.9	200.1	199.8	127	165.1
in	1 1/4"	1.25	1.25	2.5	2.52	3.5	3.88	4.63	5.24	7.88	7.87	5.5	7
mm	31.7	31.7	31.7	63.5	64	88.9	98.5	117	133	200.1	199.8	139.7	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	127	155.9	249.9	249.9	165.1	190.5
in	2"	2	2	3.62	3.62	4.75	5	6	6.5	10.43	10.43	7	8.5
mm	50.8	50.8	50.8	91.9	91.9	120.6	127	152.4	165.1	264.9	264.9	177.8	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"	3	3	5	5	6	6.61	7.5	8.27	13.31	13.31	8	11.14
mm	76.2	76.2	76.2	127	127	152.4	167.8	190.5	8.27	338	338	203.2	282.9
in	4"	4	4	6.18	6.18	7.5	7.87	9	10	13.31	13.31	9	12
mm	101.6	101.6	101.6	6.18	6.18	190.5	199.8	228.6	254	338	338	228.6	304.8
in	6"	6	6	8.5	8.5	9.5	10.63	11	12.52	25.59	25.59	15.5	15.87
mm	152.4	152.4	152.4	215.9	215.9	241.3	270	279.4	12.52	649.9	649.9	393.7	403
in	8"	8	8	10.63	10.63	11.75	13	13.5	15	37.4	37.4	18	19.75
mm	203.2	203.2	203.2	270	270	298.4	330	13.5	381	949.9	949.9	457.2	501.6
in	10"	10	10	12.75	12.75	14.25	15.26	16	17.48	43.31	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	12"	12	12	15	15	17	17.76	19	20.51	43.31	43.31	24	25.5
mm	304.8	304.8	304.8	381	381	431.8	451.1	482.6	520.9	1100	1100	609.6	647.7

Unit	Size	H		M		P		P1		Q		J	
		150	300	150	300	150	300	150	300	150	300	150	300
in	1/2"	2.6	2.6	1.65	1.65	.55	.55	.31	.31	.25	.25	.37	.37
mm	12.7	66	66	41.9	41.9	13.9	13.9	7.87	7.87	6.35	6.35	9.39	9.39
in	3/4"	2.91	2.91	1.65	1.65	.55	.55	.31	.31	.25	.25	.37	.37
mm	19	73.9	73.9	41.9	41.9	13.9	13.9	7.87	7.87	6.35	6.35	9.39	9.39
in	1"	3.43	3.43	1.97	1.97	.75	.75	.43	.43	.31	.31	.44	.44
mm	25.4	87.1	87.1	50	50	19	19	10.9	10.9	7.87	7.87	11.1	11.1
in	1 1/4"	3.62	3.62	1.97	1.97	.75	.75	.43	.43	.31	.31	.44	.44
mm	38.1	3.62	3.62	50	50	19	19	10.9	10.9	7.87	7.87	11.1	11.1
in	1 1/2"	4.13	4.13	2.76	2.76	.91	.91	.55	.55	.37	.37	.63	.63
mm	38.1	104.9	104.9	70.1	70.1	23.1	23.1	13.9	13.9	9.39	9.39	16	16
in	2"	4.5	4.5	2.76	2.76	.91	.91	.55	.55	.37	.37	.63	.63
mm	50.8	114.3	114.3	70.1	70.1	23.1	23.1	13.9	13.9	9.39	9.39	16	16
in	2 1/2"	7.0	---	4.02	---	2.19	---	.71	---	.75	---	.87	---
mm	63.5	177.8	---	102.1	---	55.6	---	18	---	19	---	22	---
in	3"	7.5	7.13	4.02	4.02	2.09	2.09	.71	.71	.75	.75	.87	.87
mm	76.2	190.5	181.1	102.1	102.1	53	53	18	18	19	19	22	22
in	4"	8.17	7.8	4.02	4.02	2.09	2.09	.71	.71	.75	.75	.87	.87
mm	101.6	207.5	198.1	102.1	102.1	53	53	18	18	19	19	22	22
in	6"	11.73	12.13	4.92	4.92	3.43	3.39	2.42	2.42	1.12	1.12	1.38	1.38
mm	152.4	297.9	308.1	124.9	124.9	87.1	86.1	61.4	61.4	1.12	1.12	35	35
in	8"	12.6	12.72	4.92	4.92	3.58	3.58	1.65	1.65	1.02	1.02	1.71	1.71
mm	203.2	320	323	124.9	124.9	90.9	90.9	41.9	41.9	1.02	1.02	43.4	43.4
in	10"	14.65	14.49	5.51	5.51	3.86	3.86	2.13	2.13	1.38	1.38	1.97	2.17
mm	254	372.1	14.49	139.9	139.9	98	98	54.1	54.1	35	35	50	55.1
in	12"	16.26	16.06	5.51	5.51	3.86	3.86	2.13	2.13	1.38	1.38	1.97	2.17
mm	304.8	413	407.9	139.9	139.9	98	98	54.1	54.1	35	35	50	55.1

Dimension Chart (Continued)

Unit	Size	T		F		N		E		W (Metric Bolt)	
		150	300	150	300	150	300	150	300	150	300
in	1/2"	.44	.56	.06	.06	101.6	101.6	.63	.63	M5X0.8	M5X0.8
mm	12.7	11.1	14.2	1.52	1.52	2580.6	2580.6	16	.63		
in	3/4"	.50	.63	.06	.06	101.6	101.6	.63	.75	M5X0.8	M5X0.8
mm	19	12.7	16	1.52	1.52	2580.6	2580.6	16	19		
in	1"	.56	.69	.06	.06	101.6	101.6	.63	.75	M6X1.0	M6X1.0
mm	25.4	14.2	17.5	1.52	1.52	2580.6	2580.6	16	19		
in	1 1/4"	.63	.75	.06	.06	101.6	101.6	.63	.75	M6X1.0	M6X1.0
mm	31.7	16	19	1.52	1.52	2580.6	2580.6	16	19		
in	1 1/2"	.69	.81	.06	.06	101.6	101.6	.63	.87	M8X1.25	M8X1.25
mm	38.1	17.5	20.5	1.52	1.52	2580.6	2580.6	16	22		
in	2"	.75	.88	.06	.06	101.6	203.2	.75	.75	M8X1.25	M8X1.25
mm	50.8	19	22.3	1.52	1.52	2580.6	5161.2	19	19		
in	2 1/2"	.88	---	.06	---	101.6	---	.75	---	M10X1.5	---
mm	63.5	22.3	---	1.52	---	2580.6	---	19	---		
in	3"	.77	1.13	.06	.06	101.6	203.2	.75	.87	M10X1.5	M10X1.5
mm	76.2	19.5	28.7	1.52	1.52	2580.6	5161.2	19	22		
in	4"	.94	1.25	.06	.06	203.2	203.2	.75	.87	M10X1.5	M10X1.5
mm	101.6	23.8	31.7	1.52	1.52	5161.2	5161.2	19	22		
in	6"	1.0	1.44	.06	.06	203.2	304.8	.87	.87	M12X1.75	M12X1.75
mm	152.4	25.4	36.5	1.52	1.52	5161.2	7741.9	22	22		
in	8"	1.13	1.63	.06	.06	203.2	304.8	.87	1.0	M12X1.75	M12X1.75
mm	203.2	28.7	41.4	1.52	1.52	5161.2	7741.9	22	25.4		
in	10"	1.19	1.88	.06	.06	304.8	406.4	1.0	1.14	M16X2.0	M16X2.0
mm	254	30.2	47.7	1.52	1.52	7741.9	10322.5	25.4	28.9		
in	12"	1.25	2.0	.06	.06	304.8	406.4	1.0	1.26	M16X2.0	M16X2.0
mm	304.8	31.7	50.8	1.52	1.52	7741.9	10322.5	25.4	32		

MANUFACTURING & TESTING STANDARDS

Design	ASME B16.34
	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	Operator	Options	Size
Series YFS	15 - 150	1 - Carbon Steel	2 - Alloy 20	H - TFM	G - Grafoil	RF - Raised Face	L - Lever Handle	O2 - Oxygen Prep	1/2" 3/4"
Series RYFS (Reduce) Port	30 - 300	2 - Alloy 20	3 - 316SS	N - Nova					1"
		4 - A276 Grade 410	P - PEEK		RTJ - Ring Type Joint	GO - Gear Operator	MCB - Media Containment Bonnet	1 1/4" 1 1/2" 2"	
		3 - 316SS		R - Reinforced Teflon				2 1/2"	
		5 - Hastelloy C	5 - Hastelloy C				SE - Stem Extension	3" 4" 6"	
		L - A350 Grade LF2	X - Special	T - Teflon				X - Special	8"
		X - Special		U - UHMWPE					10" 12"

YFS	150	1	3	H	G	RF	L		-02
Series	Class	Body	Trim	Seats	Seals	Ends	Operator	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 information 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.