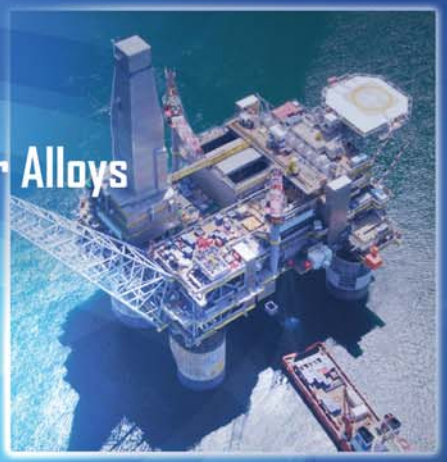
SERIES FS600

Flanged Full Port and Reduced Port Ball Valve

WCB ■ CF8M ■ Alloy20 ■ LF2 ■ Various other Alloys

ANSI 600 - (1/2" - 4")



GVC™

GLOBAL VALVE & CONTROLS

Control • Quality • Flow

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

DEPEND ON US. WE CAN HANDLE THE PRESSURE.

SERIES G

GF-3

CKF-2

SERIES CK

GLF-4

SERIES GL

NVG6000

NV10000

GLOBAL VALVE & CONTROLS

Control > Quality > Flow >

20-RP

20-FP

SERIES SBG

SERIES EXPG

SERIES FS

BV2000

SERIES 2T/3T

BV3600

BV6000

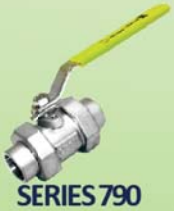
BV3705

CFS

SERIES 30

YFS w/ MCB

FS525



SERIES 790

SERIES 10

SERIES 800

SERIES FSD-61

Discover the GVC difference!

Series FS600

- Sizes 1/2” - 4” ANSI Class 600
- 2-Piece Body **Floating** Flanged Design, Full or Reduced Port
- Carbon, Stainless steel, Alloy 20, A350 LF2
- Raised Face and Ring Type Joint Ends (RTJ)
- Maintenance Free Sealing
- Self-cleaning, Leak Tight Slotted Seat Design
- NACE MR0175 Approved
- Design and Tested to API 6D
- Fire Tested according to API 607 Standards
- Blowout Proof, Anti-Static Stem Design
- Floating Ball Design prevents Cavity Pressure Build-up while the Valve is open
- Wide Variety of Exotic Alloys for Body and Trim
- Wide Choice of Seat Material

GLOBAL Valve & Controls® (GVC) **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.

GVC 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.

GVC also carries fully automated valve packages, fugitive emission solutions, control packages, cryogenic valves, as well as, various valve coating solutions. Special Ordering is available!

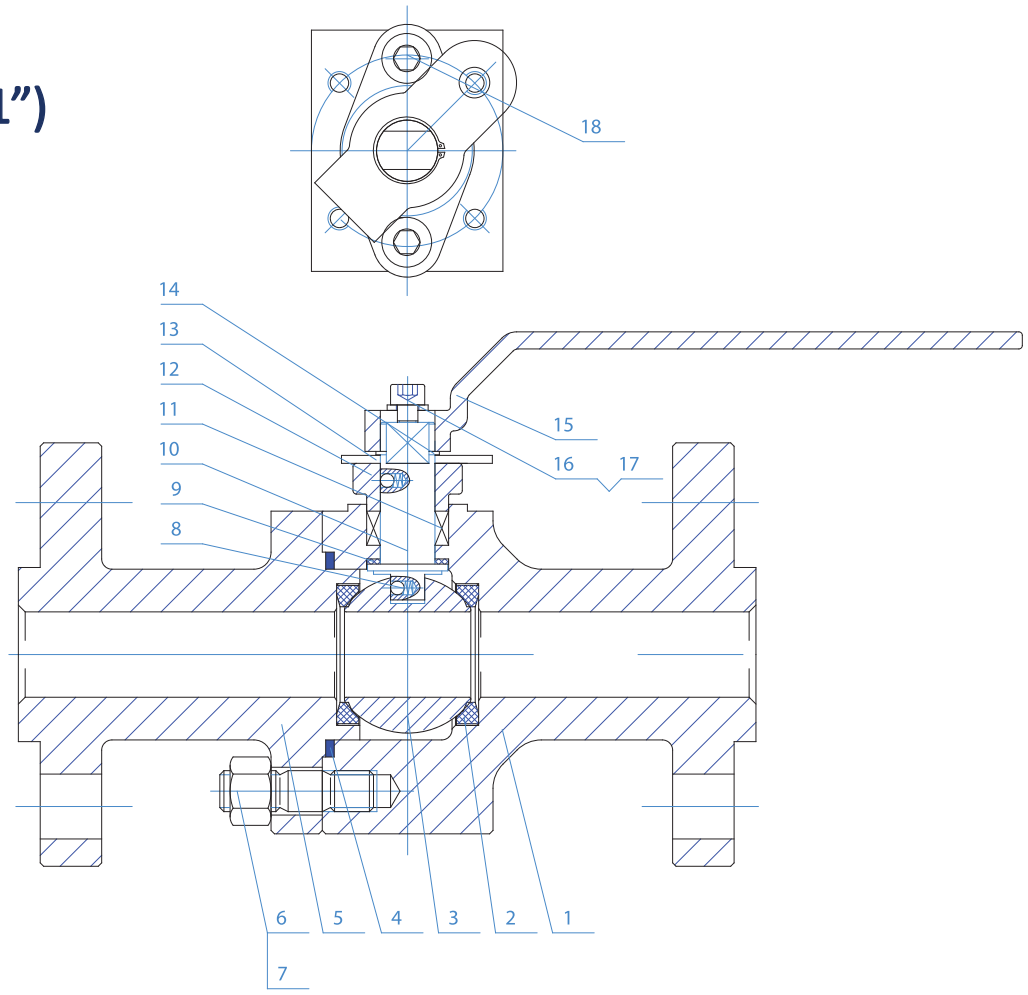
GLOBAL Valve & Controls® continues to make strides in elevating our company beyond industry standards, by being consistent in providing products that are of superior quality and performance, dedicating ourselves to quality assurance, and being immediately responsive to our customer needs. We look forward to the opportunity to supply your valve needs!

Sincerely

Troy Richard
CEO at GLOBAL Valve & Controls

MATERIALS OF CONSTRUCTION
SERIES FS600

(1/2" - 1")



BILL OF MATERIALS

No.	PARTS	MATERIAL
1	Body	A105/ A216 WCB/ A351 CF8M/ A350 LF2/ CN7M
2	Seat	TFM/PEEK/RTFE/Devlon
3	Ball	SS316/410/CN7M/A350 LF2
4	Body Gasket	Graphite+304
5	Body Cap	A105/ A216 WCB/ A351 CF8M/ A350 LF2/ CN7M
6	Stud	ASTM A193 B7/B7M/B8M/A320 L7M
7	Nut	ASTM A194 2H/2HM/8M/A320 7M
8	Anti-Static Device	Assembly/F316
9	Thrust Bearing	PTFE

No.	PARTS	MATERIAL
10	Stem	SS316/410/CN7M/A350 LF2
11	Packing/Seals	Graphite
12	Gland	A105/ A216 WCB/ A351 CF8M/ A350 LF2/ CN7M
13	Stopper	A36+HZn
14	Snap Ring	65Mn
15	Lever	Carbon Steel/ Stainless Steel
16	Washer	AISI 1020
17	Bolt	ASTM A193 B7M
18	Bolt	ASTM A193 B7M

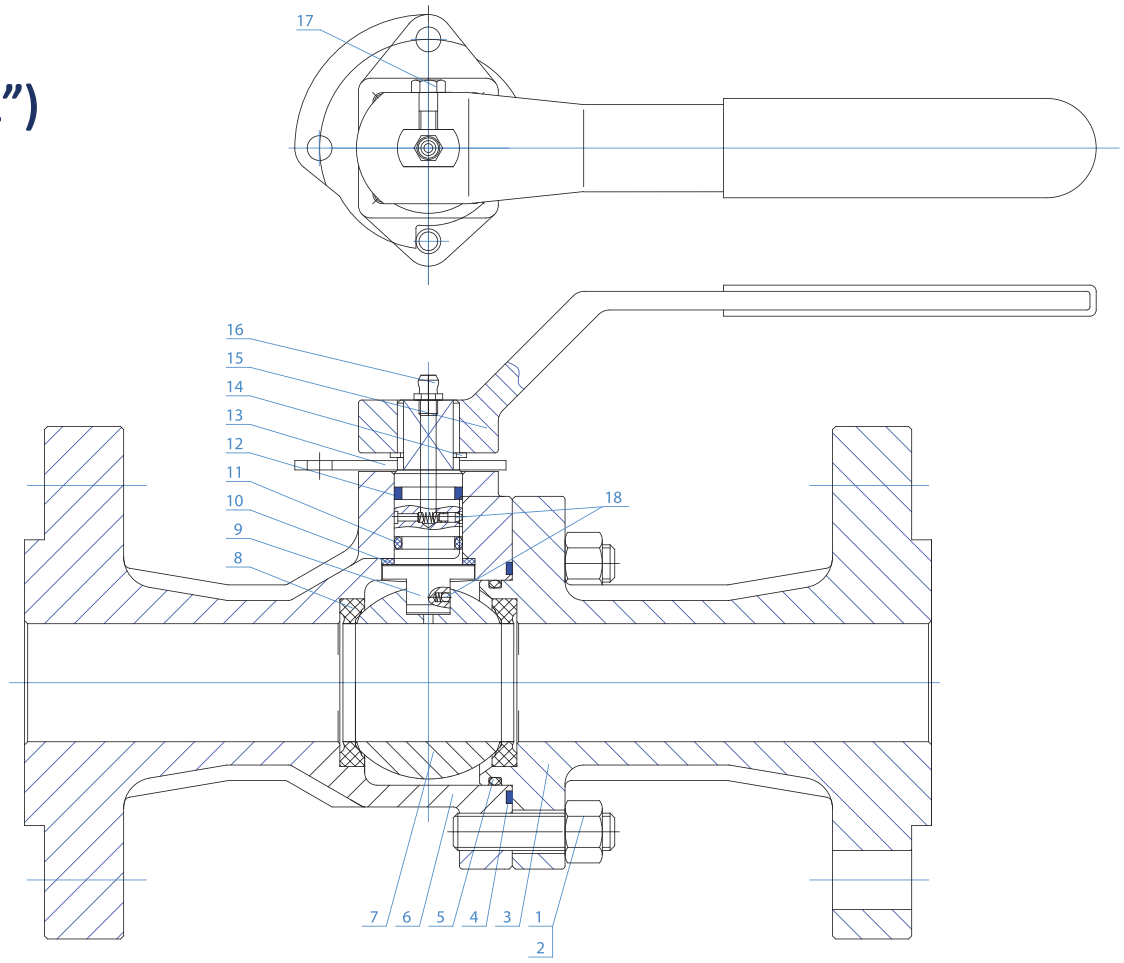
MANUFACTURING & TESTING STANDARDS

Design	ASME B16.34
	API 6D
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

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.

MATERIALS OF CONSTRUCTION
SERIES FS600

(2”)



BILL OF MATERIALS

No.	PARTS	MATERIAL
1	Stud	ASTM A193 B7/B7M/B8M/A320 L7M
2	Nut	ASTM A194 2H/2HM/8M/A320 7M
3	Body Cap	A105/ A216 WCB/ A351 CF8M/ A350 LF2/ CN7M
4	Body Gasket	Graphite+304
5	O-Ring	HNBR
6	Body	A105/ A216 WCB/ A351 CF8M/ A350 LF2 / CN7M
7	Ball	SS316/410/CN7M/A350 LF2
8	Seat	TFM/PEEK/RTFE/Devlon
9	Stem	SS316/410/CN7M/A350 LF2

No.	PARTS	MATERIAL
10	Thrust Bearing	PTFE
11	O-Ring	HNBR
12	Packing/Seals	Graphite
13	Stopper	A36+HZn
14	Snap Ring	65Mn
15	Lever	Carbon Steel/ Stainless Steel
16	Lubricating Cup	COPPER
17	Bolt	ASTM A193 B7M
18	Anti-Static Device	Assembly/F316

MANUFACTURING & TESTING STANDARDS

Design	ASME B16.34
	API 6D
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

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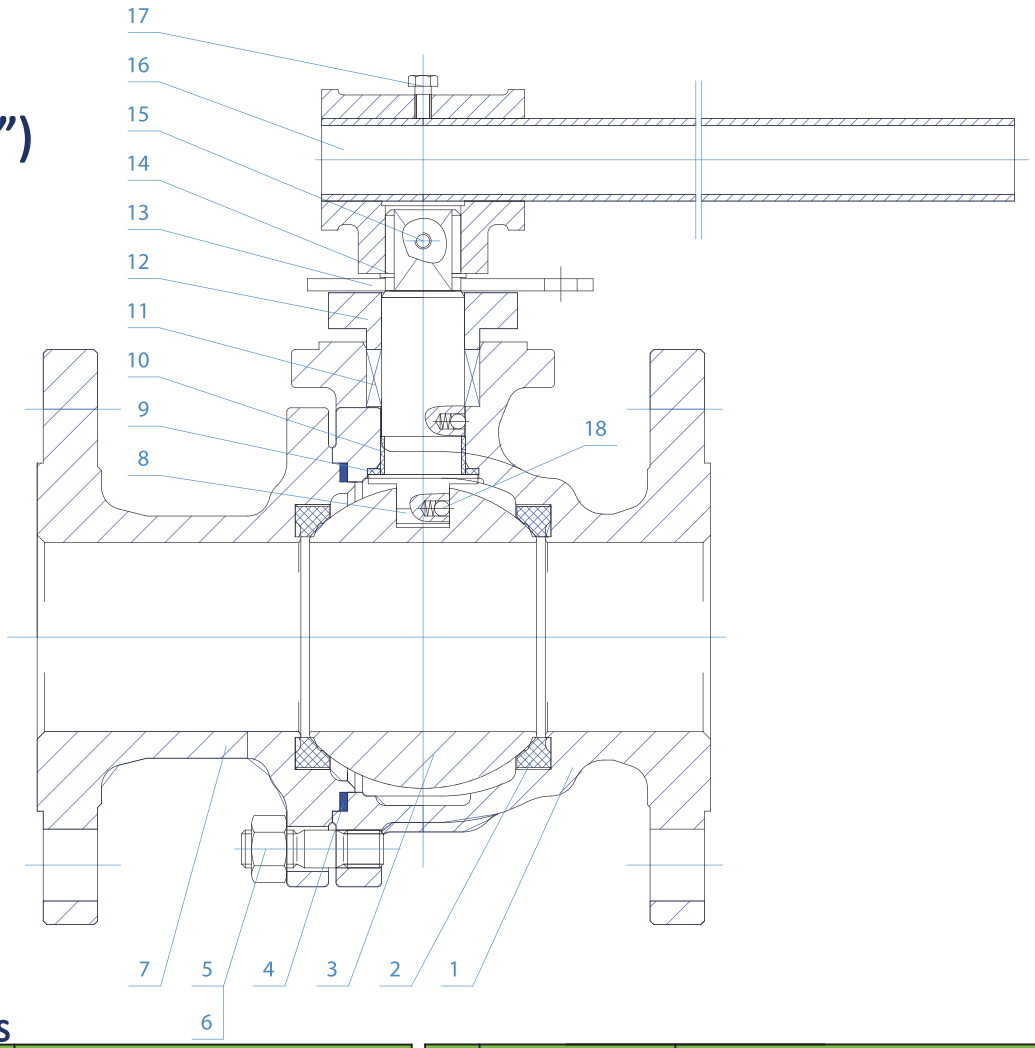
MATERIALS OF CONSTRUCTION
SERIES FS600

(3”& 4”)



BILL OF MATERIALS

No.	PARTS	MATERIAL
1	Body	A105/ A216 WCB/ A351 CF8M/ A350 LF2/ CN7M
2	Seat	TFM/PEEK/RTFE/Devlon
3	Ball	SS316/410/CN7M/A350 LF2
4	Body Gasket	Graphite+304
5	Stud	ASTM A193 B7/B7M/B8M/A320 L7M
6	Nut	ASTM A194 2H/2HM/8M/A320 7M
7	Body Cap	A105/ A216 WCB/ A351 CF8M/ A350 LF2/ CN7M
8	Stem	SS316/410/CN7M/A350 LF2
9	Thrust Bearing	PTFE

No.	PARTS	MATERIAL
10	Stem Bearing	Metal Packed PTFE
11	Packing/Seals	Graphite
12	Gland	A105/ A216 WCB/ A351 CF8M/ A350 LF2/ CN7M
13	Stopper	A36+HZn
14	Snap Ring	65Mn
15	Bolt	ASTM A193 B7M
16	Lever	Carbon Steel/ Stainless Steel
17	Bolt	ASTM A193 B7M
18	Anti-Static Device	Assembly/F316

MANUFACTURING & TESTING STANDARDS

Design	ASME B16.34
	API 6D
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

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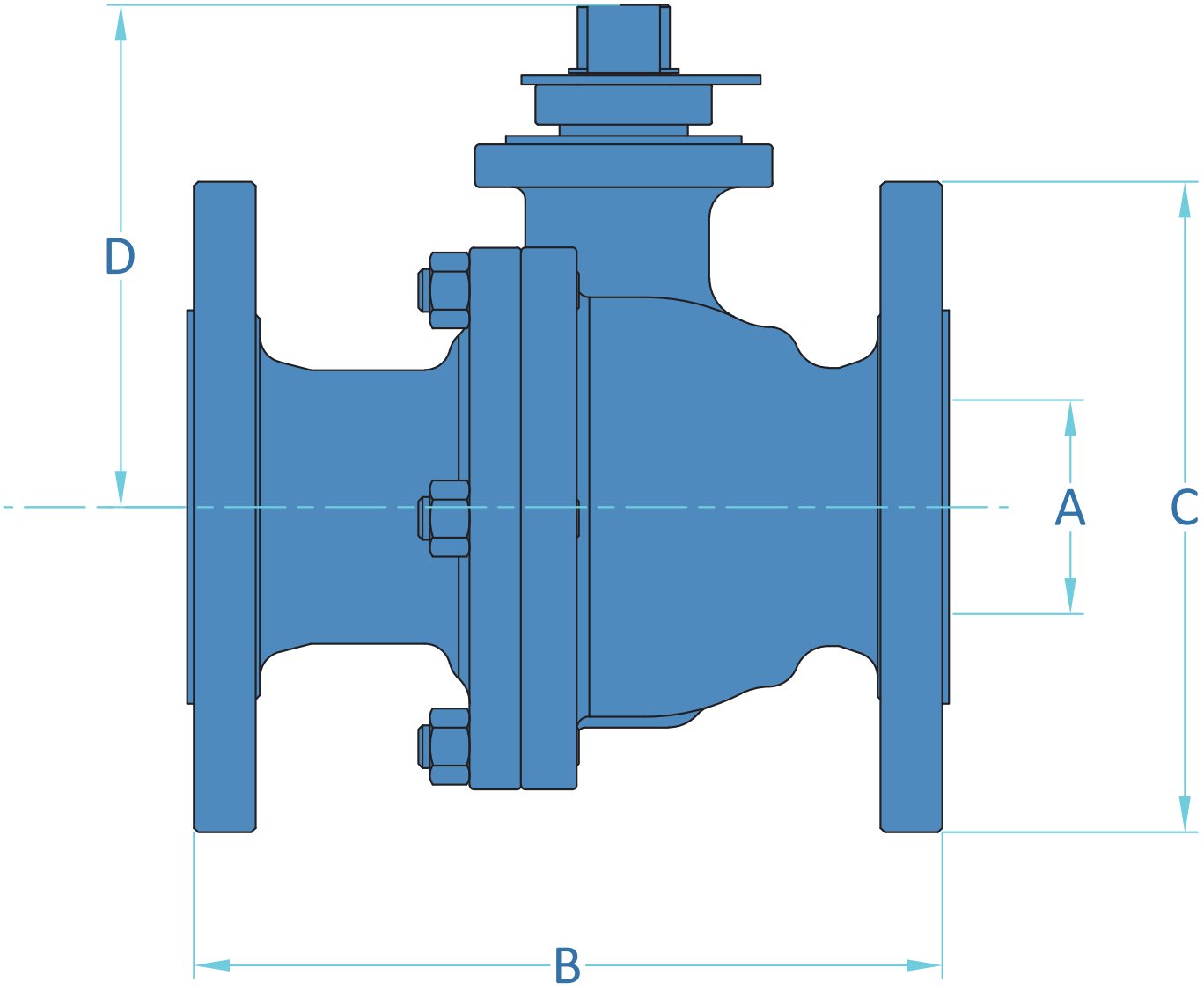

Dimension Chart

UNIT	SIZE	½ "	¾ "	1"	2"	3"	4"
in	A	½	¾	1	2	3	4
mm		15	20	25	50	80	100
in	B	6.5	7.5	8.5	11.5	14	17
mm		165	190	216	292	356	432
in	C	3.75	4.5	4.92	6.5	8.25	10.83
mm		95	115	125	165	210	275
in	D	2.13	2.6	2.68	4.13	6.75	7.75
mm		53.5	66	68	105	171	197.5

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HOW TO ORDER
SERIES FS600

SERIES FS600

- Sizes 1/2" – 4" 2-Piece Flanged Floating Design
- Full or Reduced Port, Maintenance Free Sealing
- API-608, API-6D, NACE MR0175 Approved
- Fire Safe Design API 607, Anti-Static Device
- Blowout Proof Stem with Heavy Duty Travel Stopper

Series	Class	Body	Trim	Seats	Seals	Ends	Operator	Options	Size
Series FS (Full Port)	60 - 600	1 - CS A216	2 - Alloy 20	H - TFM	G - Grafoil	RF - Raised Face	L - Lever Handle	X - Special	1/2"
									3/4"
		1A -CS A105	3 - 316SS	P - PEEK					1"
Series RFS (Reduced Port)						RTJ - Ring Type Joint	GO - Gear Operator		2"
		2 - Alloy 20	4 - A276 Grade 410	R - Reinforced Teflon					3"
									4"
		3 -CF8M 316SS	5 - A350 LF2	D - Devlon					
		3A - F316	X - Special						
		5 - A350 - LF2							
		X - Special							

FS	600	1	3	D	G	RF	L		-02
Series	Class	Body	Trim	Seats	Seals	Ends	Operator	Options	Size

Description:

2" Class 600, 2-Piece Floating Design, Raised Face, Full Port, A216-WCB Cast Body, F316 Stainless Steel Trim, Fire-safe, Devlon Seats with Graphite Stem Packing and Gaskets, Anti-Static Device, Solid Ball, Blowout Proof Stem with Heavy Duty Travel Stopper with Secure Locking Handle. Designed to API 6D, API 608, B16.34, B16.5, B16.10, Fire-tested to API 607, Tested to API 6D, NACE MR0175 Approved

PLEASE NOTE: There may be some performance variations between the GVC Series FS600 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.

Control > Quality > Flow >

GLOBAL VALVE & CONTROLS

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