CNC FLOW CONTROL



CAST FLOATING BALL VALVE

FORCE®

FORCE is a product brand of CNC Flow Control

ABOUT CNC FLOW CONTROL

CNC Flow Control is headquartered in Houston, Texas with multiple other locations in the U.S. and Canada. Our company unifies several trusted valve and flow line brands that have been serving numerous industries in North America for nearly three decades. From long range projects to same-day delivery, our diverse team is dedicated to understanding customers' needs in order to ensure exceptional service and the best solutions. Our extensive product portfolio ranges from commodity products like hammer unions and needle valves, to highly engineered products like API 6D trunnion mounted ball valves.

Quality assurance is critical to CNC Flow Control's process and we hold multiple internationally recognized quality standards certifications and management system. We are dedicated to understanding our customers' needs to ensure exceptional service by offering an in-house engineering and product management team, an extremely large product portfolio and extensive inventory to support same day shipments.

ABOUT FORCE

FORCE® Valve quality is guaranteed by strictly adhering to ISO 9001 and API Q1 audited quality standards. Dedicated to providing the highest quality valve products to meet customers' expectations, **FORCE®** Valves are manufactured in strict accordance with all applicable ASME, API and other standards.

Every valve is tested and documented to API 6D testing requirements and manufactured to comply with NACE standards with complete MTR traceability.

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DESIGN STANDARDS

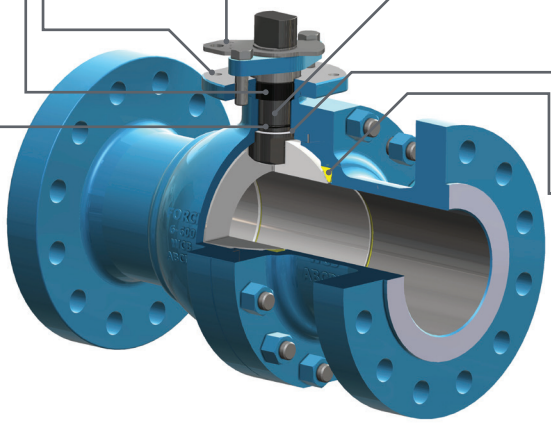
Item	**Standard** (latest edition)
Shell Wall Thickness	
Class 150, 300, 600, 900, 1500, 2500	ASME B16.34
Pressure Temp Rating	ASME B16.34
Pressure Test	
Class 150, 300, 600, 900, 1500, 2500	API 6D
Face to Face Dimensions	ASME B16.10
End Flange Dimensions	ASME B16.5
Mounting Pad Class 600	ISO 5211
Visual Casting Inspection	MSS SP-55
Fire Test	API 607 & API 6FA
General Design	ASME B16.34, API 6D, CSA Z 245.15-25, API 608, PED 2014/68/EU
Material Requirements	NACE MR0175
Quality Control	ISO 9001
Fugitive Emissions	API 641

ISO 5211 Mounting Pad

Adjustable Packing

Stem O-Ring Seal
Incorporated O-ring as the primary seal around the valve stem. A rapid gas decompression (RGD) O-ring for all pressure classes.
Certified per API 641.

Open & Closed Locking Designs
Locking device integral with travel stop.



Anti-Static Design
Positive anti-static grounding between body/stem and stem/ball permits electrical continuity

Blow Out Proof Stem
Positive stem retention is achieved within the valve body

Body Sealing
Sealing integrity is achieved through a dual-seal design incorporating an elastomeric O-ring and a fire-safe graphite gasket.

FEATURES

- Full Bore & Reduced Bore
- Metal to Metal Construction
- Floating Ball Design
- Lip Seal or Plate Seal
- Locking Device
- Double Stem Sealing
- NACE Standard
- Blow-Out Proof Stem
- Fire Safe Design
- Flexible Cavity Realief Seats
- Rapid Gas Decompression (RDG) O-ring
- ISO Mounting Pad
- Two Radius of Ball Edge for Long Life Cycle
- Anti-Static Grounding Device
- Double “D” Stem

MATERIALS

- TFM1600
- PEEK Seat
- Devlon®
- Other materials can be supplied upon request

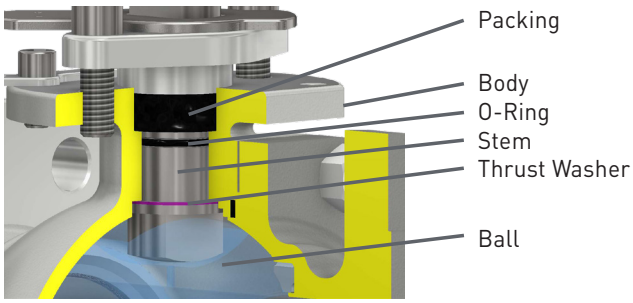
FLOATING BALL VALVE FEATURES

General

FORCE floating ball valves are designed in accordance with API 6D for ASME Class ratings 150 to 1500, Nominal sizes from 1/2" to 12". Valves have been designed for use with various combinations of materials, such as Carbon Steel, Low Carbon Steel, Special Alloy, Stainless Steel, Monel, Inconeal.

Body Joint Construction

The **one-piece** or unibody side entry design, graphite ring or O-ring, Viton (upon request) seals ensure absolute seal integrity. The two piece bolted body designs include a tight toleranced overlapping metal fit between the body and the adapter to minimize any possibility of movement due to pipeline stress. A special high temperature spiral wound stainless steel / grafoil filled gasket is utilized for absolute seal. This gasket is encapsulated by the body and adapted on all four sides. Body and adaptors are dimensioned for metal contact to ensure correct gasket crush.

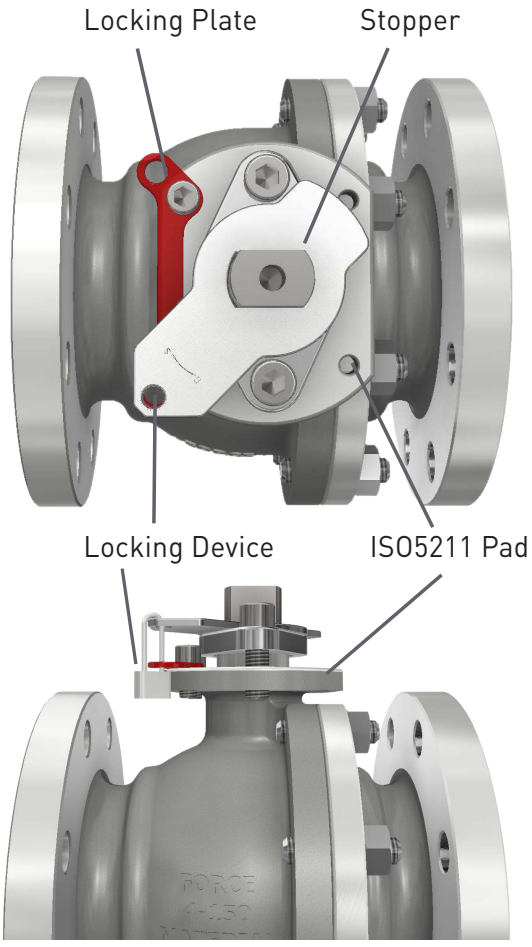


Blow-Out Proof Stem

Stem is made separately from the ball, blow-out proof design with suitable PTFE and graphite rings and antistatic device. The lower end of the stem is designed with an integral collar to be blowout-proof. It also functions as the backseat for assured stem sealing.

Anti-Static Device

All floating flanged ball valves include dual grounding systems from stem to ball and stem to body. Valve testing to API 6D 25Ed. - Annex "H" or ISO 17292 was performed for all sizes, and witnessed by a third party inspection company. An anti-static feature is provided to ensure electrical continuity for assured stem sealing.



Top Works and Locking Device

Mounting dimensions per ISO-5211. Stem head design provides mounting of the lever handle always in parallel to the flow passage. Facility for mounting a locking device for prevention of accidental valve operation provided.

FIRE SAFETY

All fire-safe valves conform to API 607, ISO 10497, and API 6FA standards.

When a fire occurs, soft components such as seats, thrust washers, packing and non-material gaskets burn out and seals are achieved by metal to metal contact.

FORCE's metal to metal back-up feature will control both interal and external leakage.

Contact between stem and valve shell

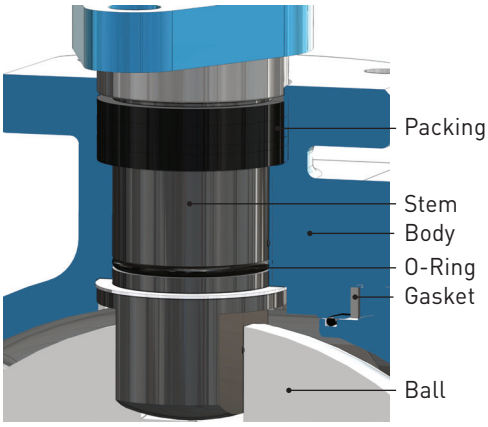


Fig. 5 (Before Fire)

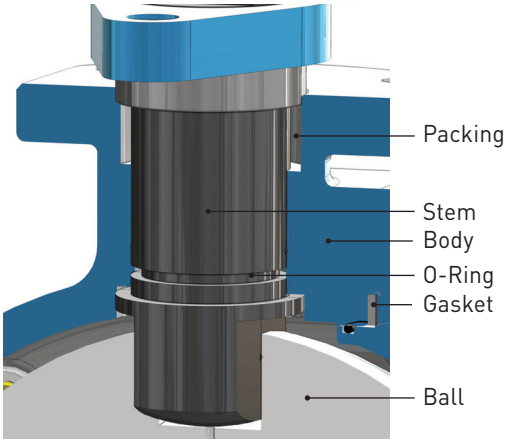


Fig. 6 (After Fire)
Metal-to-metal contact

Longevity of Life

Special consideration was devoted to the attainment of enhanced life and operation of our valve throughout design, development, testing and manufacturing stages.
Valve designs combined with the selection of advanced materials are such that long periods of inactivity should not affect the operations of effiiciency.

Contact between ball and valve shell

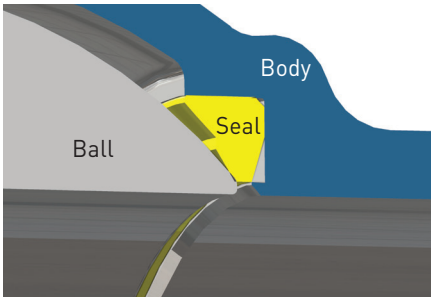


Fig. 7 (Before Fire)

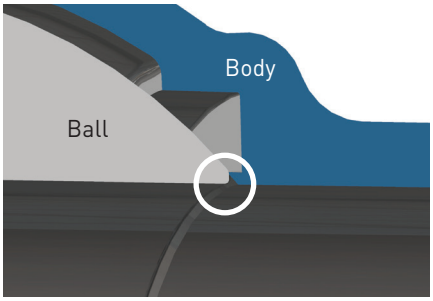
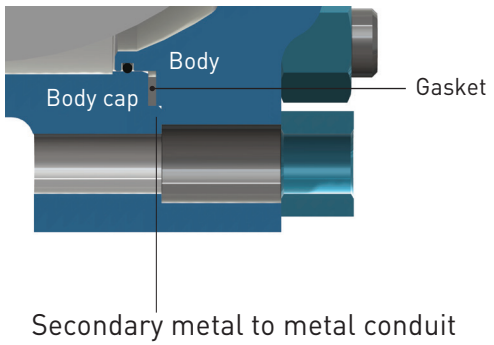


Fig. 8 (After Fire)
Metal-to-metal contact

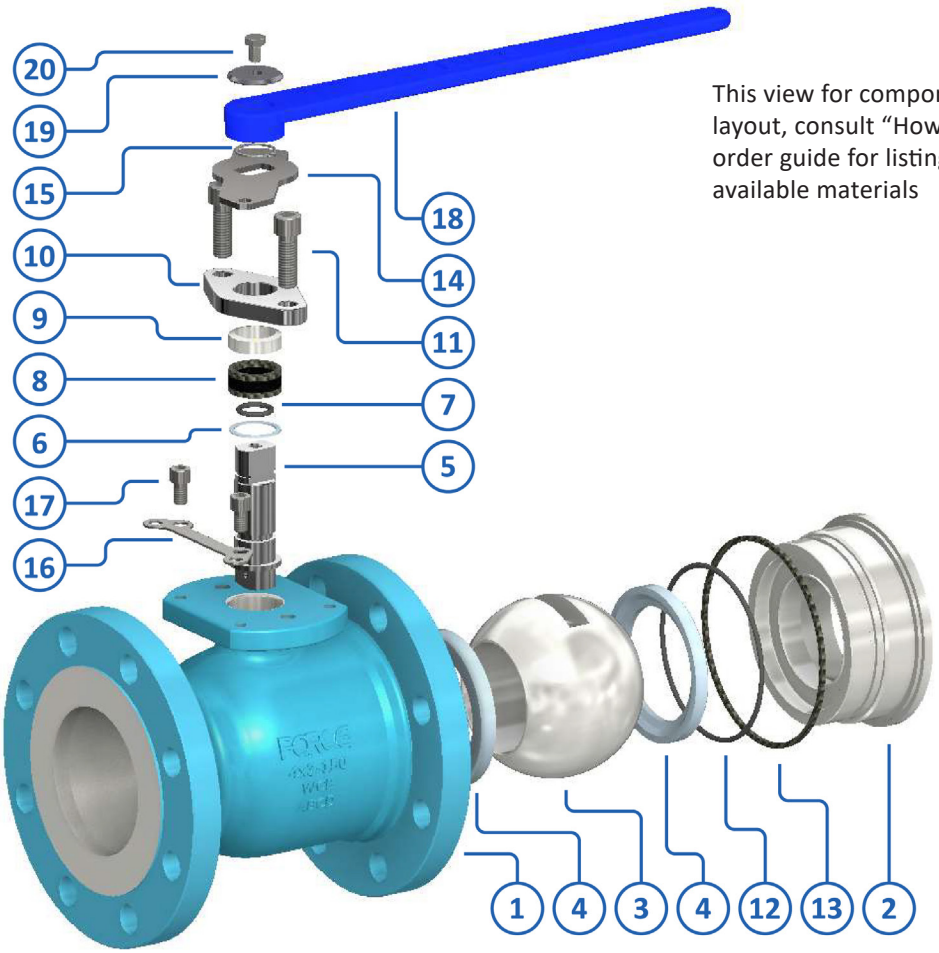
Valve shell coupling flanges of split body design



PARTS LIST AND MATERIAL SPECIFICATIONS

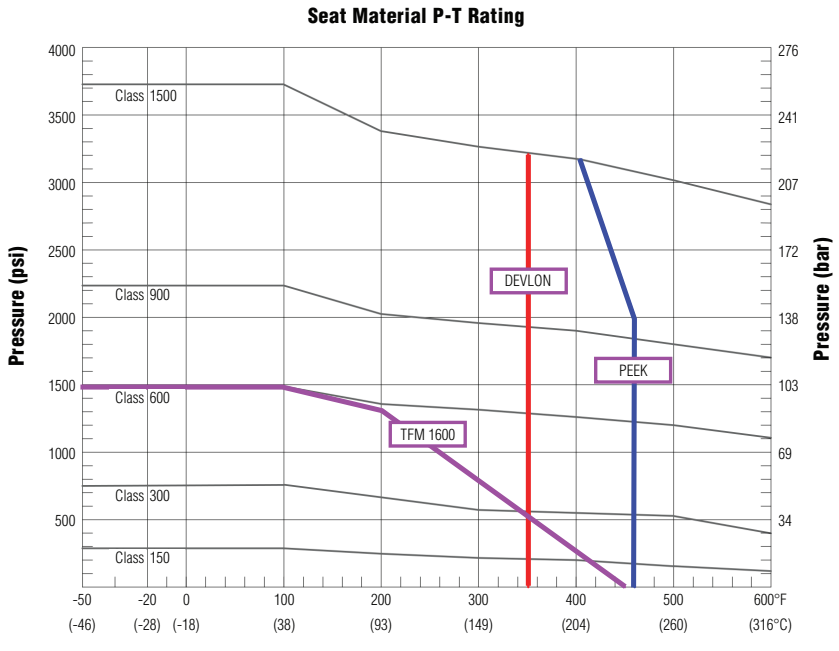
BU Series

ITEM NO.	PART NAME	QTY.	CARBON STEEL
1	Body	1	A216-WCB
2	Retainer	1	A216-WCB
3	Ball	1	A351-CF8M
4	Seat	2	TFM 1600
5	Stem	1	A276-316
6	Thrust Washer	1	PTFE
7	Stem O-Ring	1	HNBR AED
8	Packing	1 Set	Graphite
9	Gland	1	A276-316
10	Gland Flange	1	A351-CF8
11	Gland Bolt	2	A193-B8
12	Body O-Ring	1	HNBR AED
13	Gasket	1	Graphite
14	Stopper	1	A240-304
15	Snap Ring	1	A686-W1
16	Locking Plate	1	AISI 1020
17	Locking Plate Bolt	2	A307-B
18	Handle	1	A536
19	Top Washer	1	A240-304
20	Top Bolt	1	A193-B8



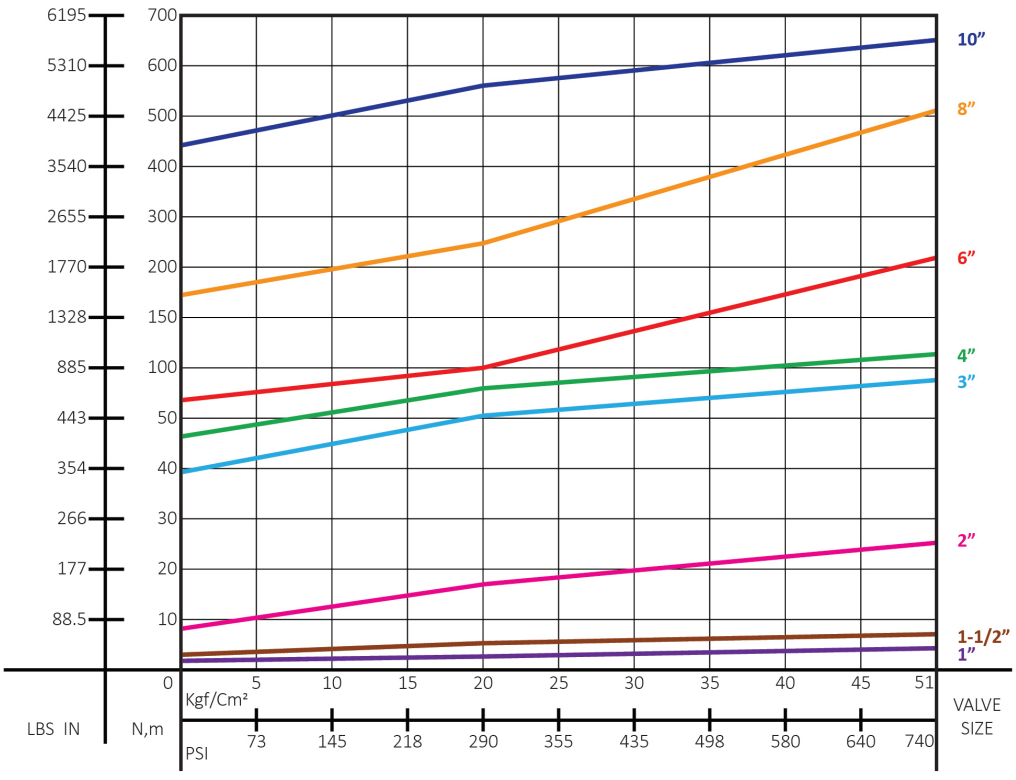
This view for component layout, consult “How To” order guide for listing of available materials

Pressure-Temperature Chart



Eleastomeric Material Temperature		
Material	Min. (°F/°C)	Max. (°F/°C)
HNBR - 90	-50/-46	350/180
FKM (Viton) -90	-22/-30	356/180

Estimated Torque Data for BU Series



Seat Material: Reinforced PTFE. When selecting an actuator, add a 25% safety factor to the required torque or contact us directly for exact information.

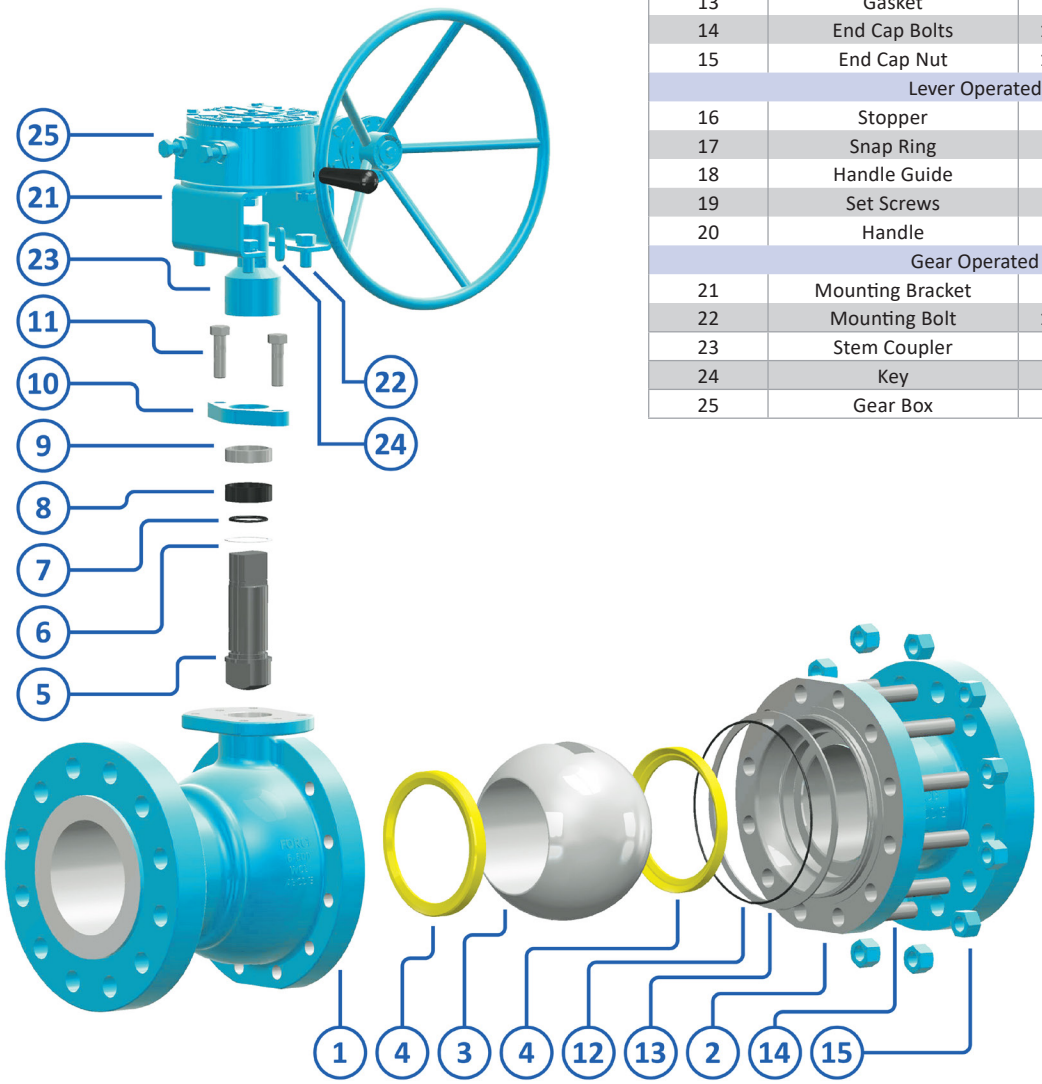
PARTS LIST AND MATERIAL SPECIFICATIONS

BF Series

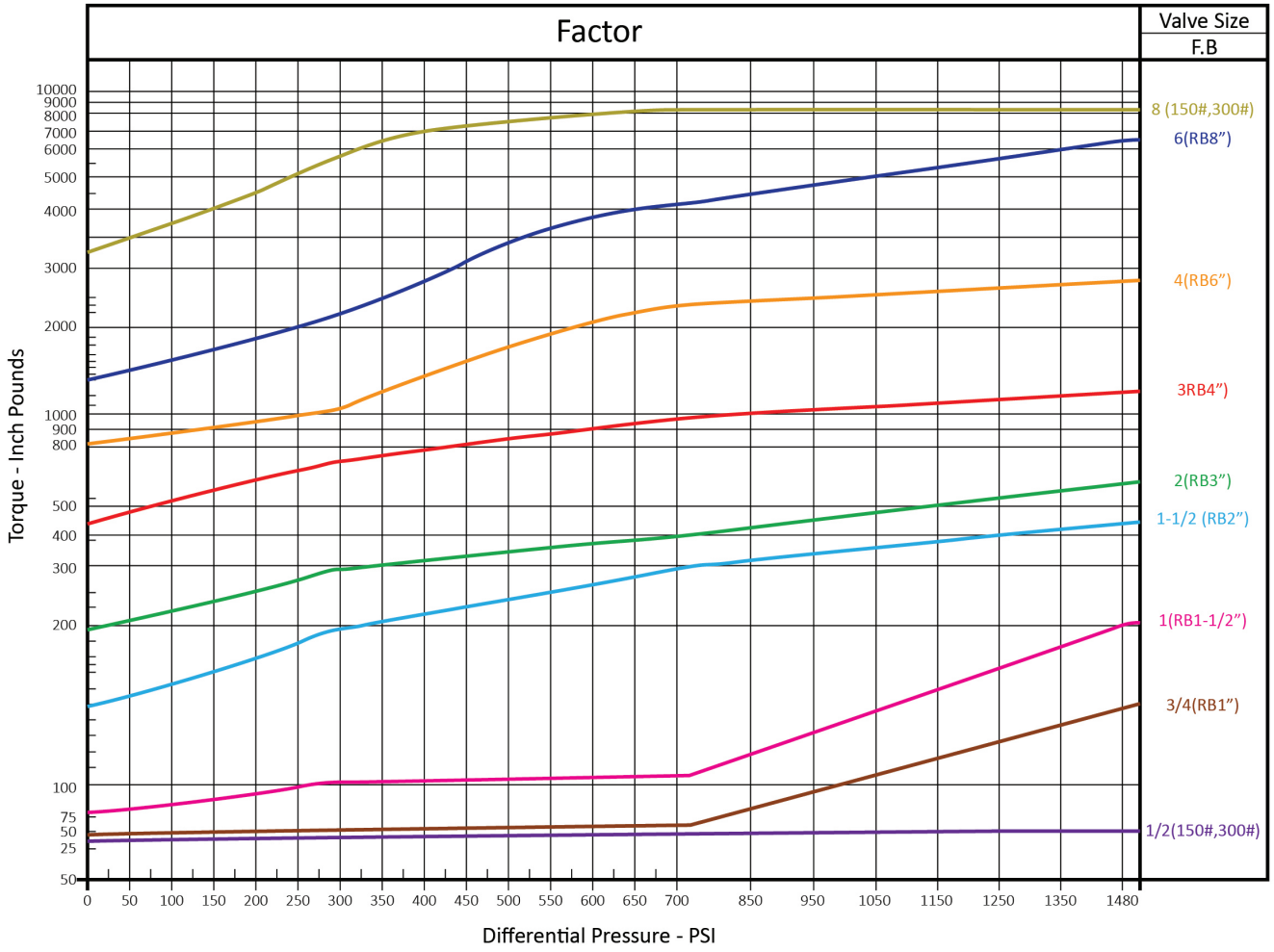


Lever Operation Option

ITEM NO.	PART NAME	QTY.	CARBON STEEL
1	Body	1	A216-WCB
2	End Cap	1	A216-WCB
3	Ball	1	A351-CF8M
4	Seat	2	Devlon
5	Stem	1	A276-316
6	Thrust Washer	1	PTFE
7	Stem O-Ring	1	HNBR AED
8	Gland Packing	1 Set	Graphite
9	Gland	1	A276-316
10	Gland Flange	1	A351-CF8
11	Gland Bolt	2	A193-B8
12	Body O-Ring	1	HNBR AED
13	Gasket	1	Graphite
14	End Cap Bolts	1 Set	A193-B7M
15	End Cap Nut	1 Set	A194-2HM
	Lever Operated		
16	Stopper	1	A240-304
17	Snap Ring	1	A686-W1
18	Handle Guide	1	A216-WCB
19	Set Screws	2	A193-B8
20	Handle	1	Carbon Steel
	Gear Operated		
21	Mounting Bracket	1	AISI 1020 Zn Plated
22	Mounting Bolt	1 Set	A193-B8
23	Stem Coupler	1	A479-410+ENP
24	Key	1	AISI 1045
25	Gear Box	1	A536



Estimated Torque Data for BF Series



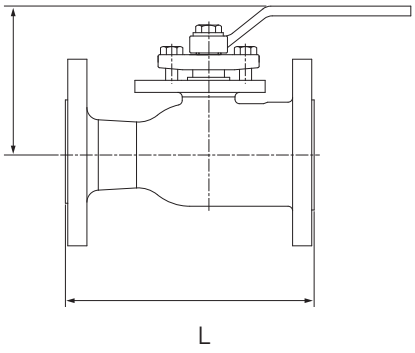
Seat Material: Reinforced PTFE. When selecting an actuator, add a 25% safety factor to the required torque. For exact torque information, contact us.

FLOATING BALL VALVES

Floating Ball Valves CLASS 150 & 300

BU Series

Reduced bore:
sizes 1-1/2" to 12"
For pipeline, oilfield, or process industry



Standard Materials - (150/300)

Body: Carbon Steel (WCB, LCC
Stainless Steel (CF8, CF8M)
Ball: Stainless Steel (CF8, CF8M)
Stem: SS304, SS316
Seats: PTFE, RTFE, Modified TFE
TFM1600



CLASS 150 DIMENSIONS Units : inch / mm

NPS		1 1/2	2	2 1/2	3	4	6	8	10
BORE	In.	1	1.5	2	2.32	3	4	5.67	7.32
	mm	25	38	51	59	76	102	144	186
L	In.	6.5	7	7.5	8	9	10.5	11.5	13
	mm	165	178	191	203	229	267	292	330
H	In.	4	5.3	5.6	5.6	6.3	7.6	12.2	14.8
	mm	102	134	142	142	160	194	310	376
CV VALUE		106	153	276	317	449	899	1,180	3,277

CLASS 300 DIMENSIONS Units : inch / mm

NPS		1 1/2	2	3	4	6	8
BORE	In.	1	1.5	2.32	3	4	5.67
	mm	25	38	59	76	102	144
L	In.	7.5	8.5	11.14	12	15.9	16.5
	mm	191	216	283	305	403	419
H	In.	5.0	5.3	5.6	6.3	7.6	12.2
	mm	127	134	142	160	194	310
CV VALUE		106	153	317	449	899	1180

Floating Ball Valves CLASS 150

BF Series

Full bore: sizes 1/2" to 12". For pipeline, oilfield, or process industry

CLASS 150 DIMENSIONS Units : inch / mm

NPS		1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10
BORE	In.	0.5	0.75	1	1.5	2	2.5	3	4	6	8	10
	mm	13	19	25	38	51	64	76	102	152	203	254
L	In.	4.25	4.61	5	6.5	7	7.5	8	9	15.5	18	21
	mm	108	117	127	165	178	191	203	229	394	457	533
H	In.	3.7	3.9	4.0	5.0	5.3	5.7	6.3	7.6	13.0	14.8	19.5
	mm	94	99	102	127	135	145	160	192	330	376	495
CV VALUE		26	61	113	270	470	740	1,250	2,250	5,200	9,550	15,050

Floating Ball Valves CLASS 300

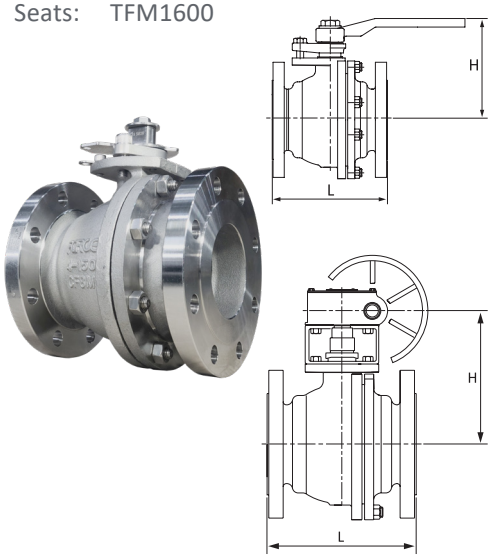
BF Series

Full bore: sizes 1/2" to 12"

For pipeline, oilfield, or process industry

Standard Materials

Body: Carbon Steel (WCB, LCC
Stainless Steel (CF8M)
Ball: Stainless Steel (CF8M)
Stem: SS316
Seats: TFM1600



CLASS 300 DIMENSIONS Units : inch / mm

NPS		1/2	3/4	1	1 1/2	2	3	4	6	8	10
BORE	In.	0.5	0.75	1	1.5	2	3	4	6	8	10
	mm	13	19	25	38	51	76	102	152	203	254
L	In.	5.5	6	6.5	7.5	8.5	11.13	12	15.9	19.75	22.38
	mm	140	152	165	191	216	283	305	403	502	568
H	In.	3.7	3.9	4.0	5.2	5.3	6.6	7.7	13.0	14.8	19.5
	mm	94	99	102	132	135	167	196	330	376	495
CV VALUE		26	61	113	270	470	1,250	2,250	5,200	9,550	15,050

Floating Ball Valves CLASS 600

BF Series

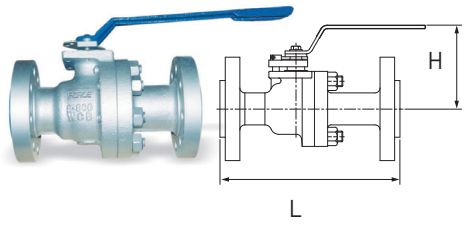
Full bore: sizes 1/2" to 6"

Reduced bore: sizes 2" to 8"

For pipeline, oilfield, or process industry

Standard Materials - (600)

Body: Carbon Steel (WCB, LCC
Stainless Steel (CF8M)
Ball: Stainless Steel (CF8M)
Stem: SS304, SS316
Seats: DEVLON®



CLASS 600 DIMENSIONS Units : inch / mm

NPS		1/2	3/4	1	1 1/2	2 X 1-1/2	2	3X2	3	4X3	4	6X4	6	8X6
BORE	in.	0.5	0.75	1	1.5	1.5	2	2	3	3	4	4	6	6
	mm	13	19	25	38	38	51	51	76	76	102	102	152	152
L	in.	6.5	7.5	8.5	9.5	11.5	11.5	14	14	17	17	22	22	26
	mm	165	190	216	241	292	292	356	356	432	432	559	559	660
H	in.	3.9	4.2	4.6	5.6	5.6	6.3	6.3	7.8	7.8	11	11	13.1	13.1
	mm	98	106	116	141	141	159	159	197	197	279	279	333	333
CV VALUE		21	44	75	239	165	450	250	1,050	650	1,900	840	4,650	2,200

Floating Ball Valves CLASS 900 & 1500

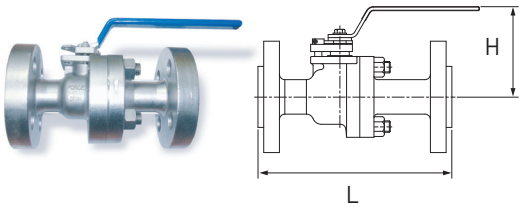
BF Series

Full bore: sizes 1/2" to 2"

For pipeline, oilfield, or process industry

Standard Materials - (900-1500)

Body: Carbon Steel (WCB, LCC
Stainless Steel (CF8M)
Ball: Duplex (F51)
Stainless Steel (CF8M)
Stem: F51, SS316
Seats: DEVLON®, PEEK



CLASS 900 & 1500 DIMENSIONS Units : inch / mm

NPS		1/2	3/4	1	1 1/2	2
BORE	in.	0.5	0.75	1	1.5	2
	mm	13	19	25	38	51
L	in.	8.5	9	10	12	14.5
	mm	216	229	254	305	368
H	in.	3.9	4.2	4.6	5.7	6.9
	mm	99	106	116	144	176
CV VALUE		14	34	60	180	380

MATERIALS

Body& Trim Material

CARBON STEEL
A105 A216 WCB A216 WCC

LOW TEMPERATURE CARBON STEEL
A350 LF2 A352 LCB A352 LCC

LOW ALLOY STEEL
AISI 4140 A694 F65 A694 F52
A694 F60 A350 LF3
API 6A 60K (A694 F60 Mod)

MARTENSITIC STAINLESS STEEL
A182 F6A A182 F6NM
A2017 CA15 A487 CA6NM

AUSTENITIC STAINLESS STEEL
A182 F316 A182 F316L
A182F316LN-Mod. A182 F347
A182 F44(6% Mo) (UNS S31254) A182 FXM-19 (Nitronic® 50)
A351 CF8M A351 CF3
A351CF3M

PRECIPITATION HARDENING STAINLESS STEEL

A564 Gr630 H 1150M (UNS S 17100)

NICKEL ALLOYS
Incloloy® 825 (UNS N08825)
Inconel® 625 (UNS N06625)
Inconel® 750 (UNS N07750)
Monel® 400
Monel® K500
Incoloy® 925 (UNS N09925)
Inconel® 718 (UNS N07718)

DUPLEX STAINLESS STEEL
A182 F51 (UNS S31803)
A182 F53 (UNS S31750)
A182 F55 (UNS S31760)
A995-4A (UNS S31803)
A995-6A (UNS S32760)

MATERIAL FOR SEALING AND SEAT INSERT

MATERIAL	GENERAL TEMPERATURE RANGE	USE / CHARACTERISTICS	NOT RECOMMENDED FOR	PROPERTIES
FM (Viton® A)	-13° F - 400° F (- 25° C ~ 204° C)	aliphatic hydrocarbons (petroleum oil, mineral oil/grease, fuel oils, butane, propane, natural gas), aromatic hydrocarbons (benzene, toluene), chlorinated hydrocarbons, high vacuum, most acids/chemicals	brake fluid with glycol base, ammonia gas, amines, alkalis, acetone, skydrol, ethyl acetate, superheated steam, polar solvents (ketone, acetone, acetic acid, etc), low molecular esters and ethers	excellent resistance for wear, ozone, weather, aging, compression set, permeation
FKM (Viton® GLT)	-50° F - 400° F (-45°C ~ 204° C)	extended low temperature service over Viton® A. Excellent for water, steam and mineral acids in addition to use of Viton® A	same as those of Viton® A	similar to those of Viton® A except a little inferior compression set and permeability
HNBR	-50° F ~ +350° F (-46° C ~ +180° C)	dilute acids, weak alkalis, aliphatic hydrocarbons, kerosene, animal oils and fats, synthetic and mineral oils and lubricants, sweet or sour (H2S) oil & gas, amine corrosion inhibitors, explosive decompression resistant	aromatic phosphate esters, ethers, ketones, aromatic hydrocarbons, chlorine	These materials have the excellent oil/fuel resistance fo traditional nitrile elastomers. Theyalso have superior mechanical properties and can sustain higher service temperatures: e.g. up to 180°C in oil. In addition, they display superior resistance to aggressive fluids such as sour crude oil and have excellent resistance to ozone.
PTFE	-400° F - 450° F (-240° C ~ 232° F)	almost all chemicals and solvents including strong acid and alkali, high and very low temperature service	high mechanical loading	weather resistance, thermal stability, low friction
PEEK (polyether-etherketon)	-40° F - 500° F (-40° C ~ 260° C)	superb chemical resistance including alcohols, acids, ammonia, esters, halogenated organics, hydrocarbons and inorganics	some strong acids - nitric, chromic, sulfuric, benzene sulfonic acids and aqua regia, etc., some inorganics - bromine, chlorine and fluorine, etc.	good high temperature performance, wear resistance, very low smoke and toxic gas emission, good hydrolysis resistance
Polymite	-65° F - 275° F 185° F, water based fluids (-54° C ~ 135° C)	petroleum and water based fluids, phosphate ester fluids, some chlorinated fluids and solvents, ketones, ethylene base glycols	strong acid, alcohols, brake fluids, dry chlorine, water over 185°F	very high sealability, tear strength, abrasion and extrusion resistance

METAL SEATED BALL VALVES

BFM Series

- Full Bore & Reduced Bore
- Applicable Standards ASME B16.34, BS5351 & API 6D
- Face to Face: ASME B16.10
- End Flange Dimensions: ASME B16.5

FORCE Metal Seated Ball Valve Features:

- 2-Piece or 3-Piece split body construction
- Manufactured to exact customer specifications / requirements
- Provide excellent service in high temperature / high operational frequency applications
- Standard ISO Mounting Pad
- Manufactured to meet ASME B16.104 Class V and MSS SP-61 sealing requirements
- Standard Fire Safe design

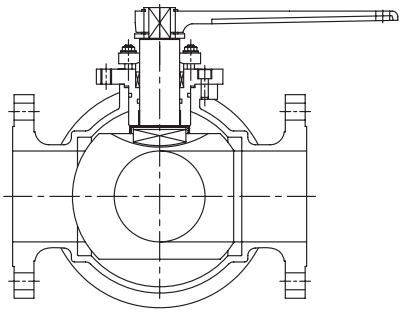






3-WAY 4-SEAT BALL VALVES

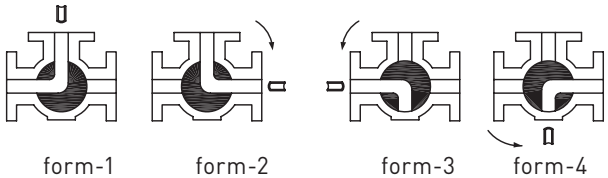
- T-Port or L-Port
- Side Entry and Top Entry
- 4-Seat Design
- Face to Face: manufacturer standard
- End Flange Dimensions: ASME B16.5
- Full Bore



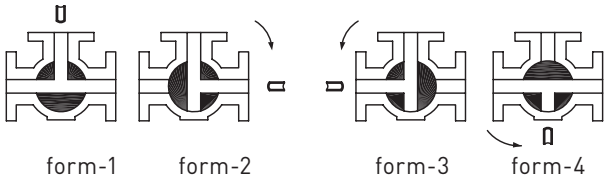


Operating Forms

3-way L-Port



3-way T-Port



Flow direction is marked on top of stem

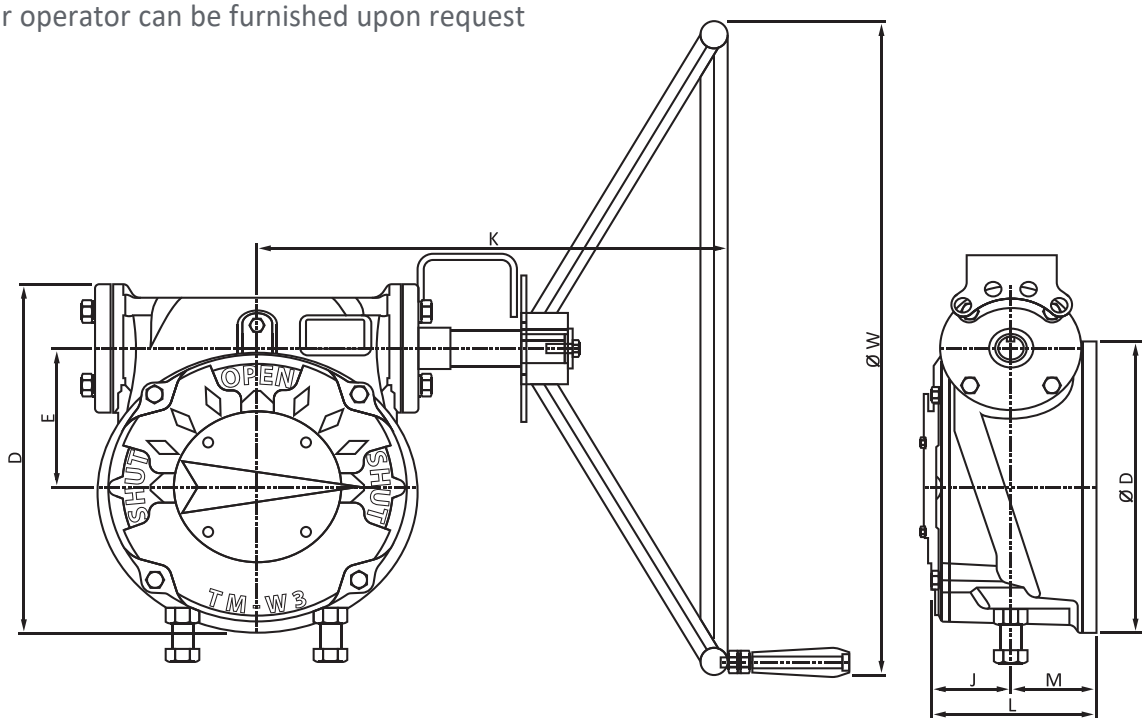
GEAR ACTUATOR DATA

Valve Automation

FORCE® is able to offer a comprehencive package of control equipment including actuators, switches, solenoids, and positioners. Details of actuator are available on request.

Gear Operated

The gear operator can be furnished upon request



Model No.	Dimension	D	E	W	K	J	M	L	Flange Size	Gear Ratio	Max Torque		weight	
											Inch lb	N-m	lb	kg
TM-W0	INCH	7.0	2.5	11.8	9.2	1.8	1.8	3.6	F12	38:1	9,019	1,019	25.4	11.5
	MM	178	64.5	300	233	46	45	91						
TM-W1	INCH	8.1	3.1	15.7	10.4	1.9	2.0	3.9	F14	40:1	16,576	1,873	32.6	14.8
	MM	205	79	400	265	48	50	98						
TM-W2	INCH	9.8	3.7	19.7	13.1	2.3	2.2	4.6	F16	42:1	28,060	3,171	53.1	24.1
	MM	249.5	94.5	500	333.2	59	57	116						
TM-W3S	INCH	11.8	4.7	22.0	14.9	2.7	2.3	5.0	F20	120:1	50,181	5,670	89.5	40.6
	MM	299	119	560	378.5	68	59	127						
TM-W4S	INCH	14.4	5.7	24.8	16.9	3.1	3.3	6.4	F25	168:1	80,354	9,080	162.5	73.7
	MM	364.5	144.5	630	429	80	83	163						
TM-W5S	INCH	17.1	7.3	28.0	18.6	3.2	3.6	6.9	F30	180:1	165,317	18,680	218.5	99.1
	MM	434.5	184.5	710	471.5	82	92	174						
TM-W6S	INCH	21.4	9.1	31.5	21.4	3.7	4.3	8.0	F35	256:1	265,068	29,951	401.2	182
	MM	544.5	230	800	544	94	110	204						

CRYOGENIC BALL VALVES

BUC/BFC/BTC Series

Scope of Offering

- Full Port / Reduced Port
- End Connections: RF, RTJ, BW
- Floating Valve Offering:
  - ASME CL 150, Sizes 1/2” - 6”
- Trunnion Mounted Valve Offering:
  - ASME CL 150 - 900, Sizes 2” - 24”
  - ASME CL 1500, Size 2”
  - Seat Designs Available:
    - DBB (self relieving x self relieving)
    - DIB2 (self relieving x double piston effect)

Design Standards and Features

- Design/Material: API 6D / ASME B16.34
- Inspection & Testing: API 6D, MSS SP134, BS6364
- End to End: API 6D
- Flanged End: ASME B16.5
- NACE Compliance: MR 0175/ISO 15156-1
- Design Temp: -320°F to 212°F (-196°C to 100°C)
- Blowout proof stem
- Anti-static design
- Fire safe design







HOW TO ORDER A FORCE® FLOATING BALL VALVE

Example: A 1", Class 150, 2 Piece, Full Port Floating Ball Valve with Raised Face Flanged End Connections, Carbon Steel Body, Carbon Steel + ENP Ball and 410 SS + ENP Stem with PTFE Seats, Viton® O-Rings GLT AED and Lever is written as 1-BF11-AAA1L-2.

A		B	C	D		E	F	G	H	I		J
1	–	BF	1	1	–	A	A	A	1	L	–	2

A	Size
0.5	1/2"
0.75	3/4"
1	1"
1.5	1-1/2"
2	2"
3	3"
4	4"
5	5"
6	6"
8	8"
10	10"

B	Ball Valve Type
BU	1 PC Floating BV
BF	2 PC Floating BV w/ Bolted Body
BN	3-Way BV w/ 90° V-Ball
BV	3-Way BV w/ 120° V-Ball
BUM	1 PC Metal Seated Floating BV
BFM	2 PC Metal Seated Floating BV w/ Bolted Body
BUC	Cryo. 1 PC Floating BV
BFC	Cryo. 2 PC Floating BV w/ Bolted Body
BP	Pocketless BV
BJ	Jacketed BV

C	Port
1	Full Port
2	Reduced Port

D	Pressure Class
1	Class 150
2	Class 300
3	Class 600
4	Class 900
5	Class 1500
6	Class 2500

E	Body Material
A	A216-WCB (A105)
B	A351-CF8 (F304)
C	A351-CF8M (F316)
D	A351-CF3 (F304L)
E	A351-CF3M (F316L)
F	A351-CN7M (Alloy 20)
G	A217-WC1
H	A217-WC6 (F11)
J	A217-WC9 (F22)
K	A352-LCC
L	A352-LC2
M	A352-LC3
N	A352-LCB (LF2)
P	A217-C5
Q	Duplex
R	Monel
S	Hastelloy®
T	Titanium
U	Inconel
V	Super Duplex
X	Other

F	Trim Material
A	WCB+ENP Ball & 410 SS + ENP Stem
B	304 SS
C	CF8M Ball & 316 SS Stem
D	304L SS
E	316L SS
F	Alloy 20
G	410 SS
Q	CF8M Ball & F51 Stem
R	Monel
S	Hastelloy®
T	Titanium
U	Inconel®
V	Super Duplex
X	Other

G	Seat Material
A	PTFE
B	RTFE (Glass)
C	RTFE (Carbon)
D	TFM 1600
E	PFA
F	PEEK
G	Nylon
H	Metal
I	PCTFE
J	Devlon®
K	Graphite
X	Other

H	End Connection
1	Raised Face Flange (RF)
2	Ring Type Joint Flange (RTJ)
3	Welded End (WE)
4	RF x WE
5	RTJ x WE
6	Socket Weld (SW)
7	SW x Threaded
8	Special

I	Operator
E	Electric Actuator
P	Pneumatic Actuator
G	Gear Operator
B	Bare Stem
L	Lever

J	O-Rings
1	Viton® (70/90 DURO)(1)(2)
2	Viton® AED
3	LT HNBR (70/90 DURO)(1)(2)
4	LT HNBR AED
9	Other

(1): 70 DURO for CL 150 & 300 (2): 90 DURO for CL 600 & Higher

Consult CNC Flow Control for full list of material options and specifications per valve size and pressure class, as components may vary according to design.

Inconel® is a registered trademark of Special Materials Corporation, USA. Devlon® is a registered trademark of Devol Engineering, Ltd. Viton® is a registered trademark of The Chemours Company. Hastelloy® is a registered trademark of Haynes Alloys.

NOTES

NOTES

About Our Company

CNC Flow Control is headquartered in Houston, Texas with multiple other locations in the U.S. and Canada. Our company unifies several trusted valve and flow line brands that have been serving numerous industries in North America for nearly three decades. From long range projects to same-day delivery, our diverse team is dedicated to understanding customers' needs in order to ensure exceptional service and the best solutions. Our extensive product portfolio ranges from commodity products like hammer unions and needle valves, to highly engineered products like API 6D trunnion mounted ball valves.

CE

CERTIFIED ISO 9001:2015 COMPANY

Member of API



Quality assurance is critical to CNC Flow Control's process and we hold multiple internationally recognized quality standards certifications and management system. We are dedicated to understanding our customers' needs to ensure exceptional service by offering an in-house engineering and product management team, an extremely large product portfolio and extensive inventory to support same day shipments.

Headquarters
10350 Clay Road, Suite 250
Houston, TX 77041
Toll-Free: 844.398.6449

Permian Basin
1100 W IH 20
Odessa, TX 79763
Phone: 432.276.7640

Canada
2930 51 Avenue NW, Unit # 3
Edmonton, AB T6P 0E1
Phone: 780.462.9166

Website: www.cncflowcontrol.com
Follow us:

Additional Consignment Locations

Bakersfield CA
Oklahoma City OK
Kilgore TX
Shreveport LA
Casper WY
Williston ND
Victoria TX
Alice TX
Pleasanton TX

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