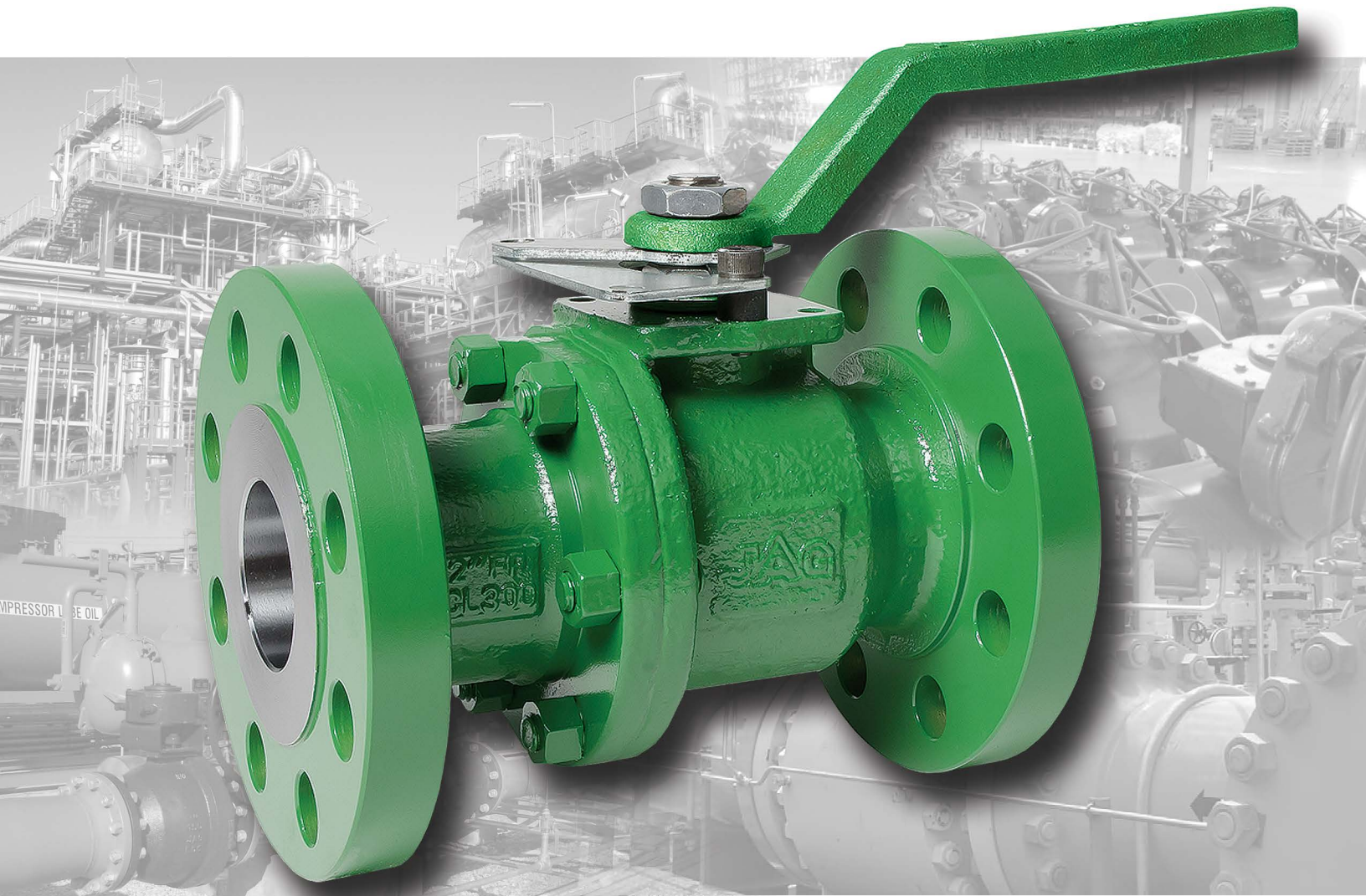


FLANGEED

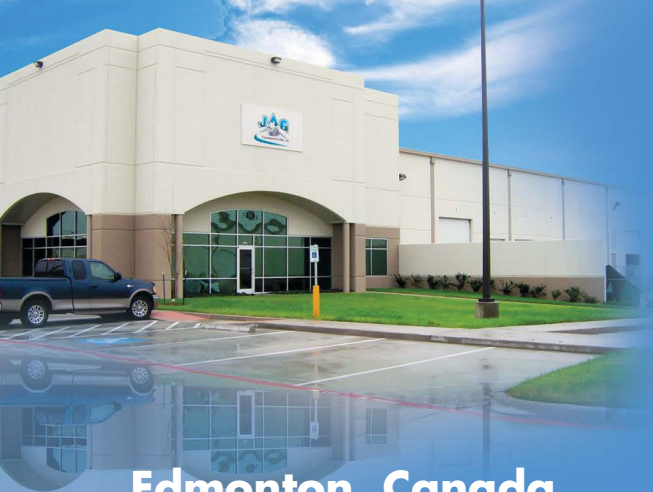
FLOATING BALL VALVES



w w w . j a g v a l v e . c o m



BUILT WITH
INTEGRITY



Edmonton, Canada

• 55,000 square feet • ISO 9001:2015 • API 608

JAGflo's wholly owned Dalian, China facility uses state of the art machining and design capabilities to produce world-class valves that have earned a reputation of reliability and value. As an ISO 9001 certified facility, JAGflo's Dalian plant produces reliable and safe valves with a hands-on approach to quality. Our foundries and forge suppliers are carefully screened and routinely audited. JAGflo's commitment to quality can be seen in every step of the design, manufacturing and testing process. Our passion for "Building with Integrity" is passed to the customer through a reliable and value-driven valve.



The perfect combination of domestic manufacturing and global materials, JAG valves offer end-users an economical choice with proven reliability and on time delivery. JAGflo has registrations in API 6D, API Q1, ISO 9001. JAGflo has manufacturing facilities in Edmonton, Canada and Dalian, China operating under strict quality guidelines. Every valve is carefully machined, assembled and tested before leaving our facility to ensure your project runs smoothly, on time and on budget. With thousands of valves installed worldwide, JAGflo has earned a reputation that you can depend on.

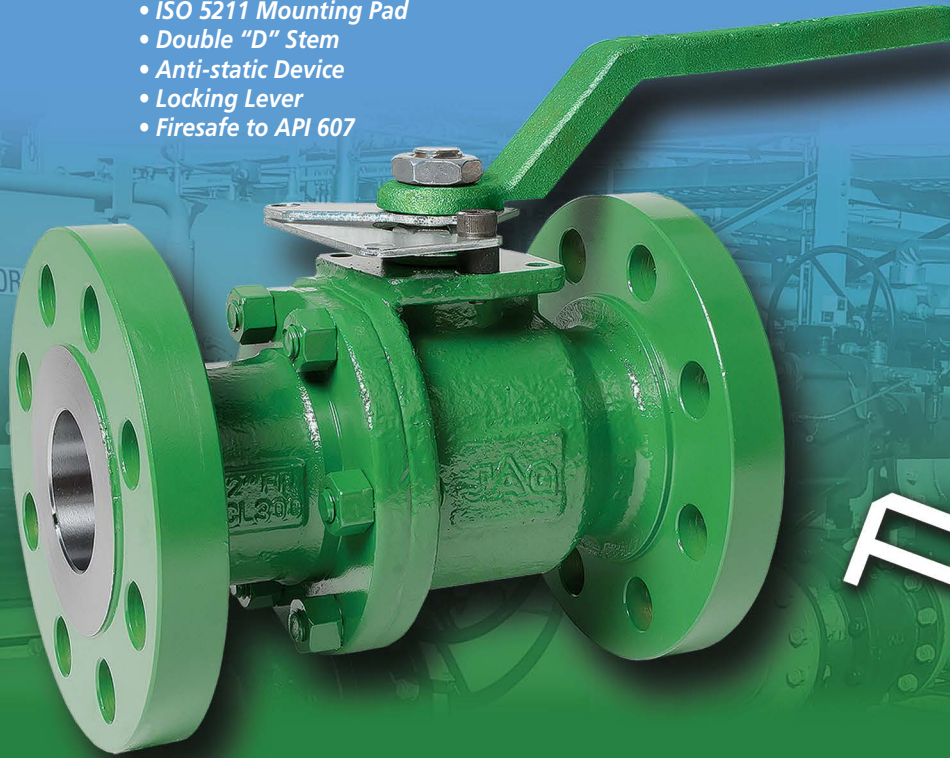
BUILT WITH
INTEGRITY

www.jagvalve.com

- Forged 2"-4" (ASME 150-600)
- Cast 6" (ASME 150-300)
- 2-piece Bolted Body
- Full or Reduced Port
- Flanged End connections
- Blowout Proof Stem
- Dual Stem Seals
- Designed and tested to ASME B16.34 / API 608
- NACE MR-01-75
- ISO 5211 Mounting Pad
- Double "D" Stem
- Anti-static Device
- Locking Lever
- Firesafe to API 607

API 608

Features & Benefits



FEATURES

Ball

- Floating Ball
- Stop Plate

Body

- Bolted 2-piece Construction
- 2"- 4" Forged Steel
- 6" Cast Steel

Seat

- Designed in strict accordance with API 607

Stem

- Integral T-style stem internally inserted
- Double D stem
- Anti-static devices ground contact between stem and ball and body
- Stem O-rings

Gland Flange

- Live-Loaded Belleville springs on gland studs

Packing

- Packing, O-ring and thrust washer for triple protection

Mounting Pad

- ISO 5211 standardized mounting pads

Handle

- Locking Handle

Traceability

- Materials Certification of all pressure containing parts

BENEFITS

- Seal is created by line pressure
- Ensures ball cannot be over-rotated

- Offers easy maintenance for longer service life
- Rugged design for high pressure applications
- Economical solution for low pressure applications

- Metal-to-metal secondary seal isolates flow if primary soft seals are compromised by fire

- Blow-out proof stem cannot be removed while valve in service
- Guarantees correct handle mount parallel to flow
- Ensures electrical continuity
- Provides dual seal capability

- Provides continuous compression to maintain load on the stem packing at all times

- Maximum sealing performance reducing fugitive emissions to comply with most severe regulations

- Simple and economical automation mounting

- Tamper proof in the Open and Closed positions

- Available for stringent specification requirements

Part number configuration

F B2 - F 40 R 06 N - - S4 02 - J
 1 2 3 4 5 6 7 8 9 10 11

1-Type

F - Floating

2-Construction

B2 - Bolted (2 pc) - Forged 2" to 4"
 B - Bolted (2 pc) - Cast 6"

3-Port

F - Full Port
 R - Reduced Port

4-Nominal Size

05 - 1/2" 20 - 2"
 07 - 3/4" 30 - 3"
 10 - 1" 40 - 4"
 15 - 1.5" 60 - 6"

5-Connection

A - RF Smooth J - RTJ
 B - BW Sch 40 R - Raised Face
 C - BW Sch 80 X - Special
 E - BW Sch XXH

6-Pressure

01 - ASME 150
 03 - ASME 300
 06 - ASME 600

7-Body / Service

L - ASTM A350 LF2 / A352-LCC / LT / NACE
 N - A105N / A216-WCB / NACE
 X - Special

8-Operator

* - - Handle
 G - Gear
 B - Bare Stem

9-Soft Goods

*S4 - Viton / RPTFE Seats

10-Trim

*02 - 316 SS

11-Computer Code

J

For additional configurations, please consult JAGflo

* Our standard

TÜV CERT

TÜVRheinland®
Precisely Right.

CERTIFICATE

Quality-Assurance System
acc. to European Directive 97/23/EC
Certificate No.: 01 202 CHQO-08 0237

Name and address of
Dallan Jag Flocomponents Co., Ltd.

Certificate

Quality-Assurance System
acc. to Directive 97/23/EC

Certificate no.: 01 202 CHQO-08 0237

Name and address of the
manufacturer
Dallan Jag Flocomponents Co., Ltd.
8875 Sargent Street No. 1 Building A
Dallan 115600
P.R. China

Hereby we certify that the above-mentioned manufacturer
conforms to quality systems according to the European

ADSA
the pressure equipment safety authority

January 20, 2006

Warren Williams
JAG FLOCOMPONENTS N.A.
8440 ROPER ROAD
EDMONTON, AB T6E 6W4

#200, 4208 - 97 Street
Edmonton, Alberta, Canada T6E 5Z9
Tel: (780) 437-0100 / Fax: (780) 437-7787

Certificate

Quality-Assurance System
acc. to Directive 87/23/EEC

Certificate no.: 01 202 CH/0-08 0297

Name and address of the manufacturer:
Dallan Jag Floccomponents Co., Ltd.
DEPZ Songshan Street No. 1 Building A
Dallan 116600
P. R. China

Herewith we certify that the above mentioned manufacturer operates a quality system according to the European Directive 87/23/EEC. The manufacturer has the permission to affix the following CE marking to pressure equipment designed and manufactured in accordance to the scope covered by 8th Quality-Assurance System:

CE 0035

GS-System (Model H)
(The GS-Markings E 1, E, D1 and D2 are performed by Notchus H)

Cr10-08 0297
Design and Manufacturing of Ball valves, see annex to certificate

Dallan Jag Floccomponents Co., Ltd.
DEPZ Songshan Street No. 1 Building A
Dallan 116600
P. R. China

Valid until:
February 24, 2014

Colonge, March 22, 2011
Dr.-Ing. W. Wichert

TÜV Rheinland Certification Body for Pressure Equipment
TÜV Rheinland Industrie Service GmbH
Nobelschloß, C-03, 51069
Am Grauen Stein, D-51105 Köln

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TÜV Rheinland
Precision Right.

AFBA
Real Estate Broker/Trading Authority

January 20, 2006

Warren Williams
JAG FLOCOMPONENTS N.A.
8440 ROPER ROAD
EDMONTON, AB T6E 6W4

#200, 4208 - 97 Street
Edmonton, Alberta, Canada T6E 5Z1
Tel: (780) 437-9100 / Fax: (780) 437-7781

Dear Warren Williams,

The drawings, specifications and/or information received on December 29, 2005 are accepted for registration as follows:

CNRN	OC00968.2	Accepted on: January 20, 2006
Tracking No.	2005-09989	Expiry Date: January 20, 2016
Reg Type	Addition to Acc. Filling	
Drawing No.	413-1205	
Filling Desc:	VALVES	


Registered under owner / manufacturer name DALIAN JAG FLOCOMPONENTS CO LTD

The registration is conditional on your compliance with the following notes:

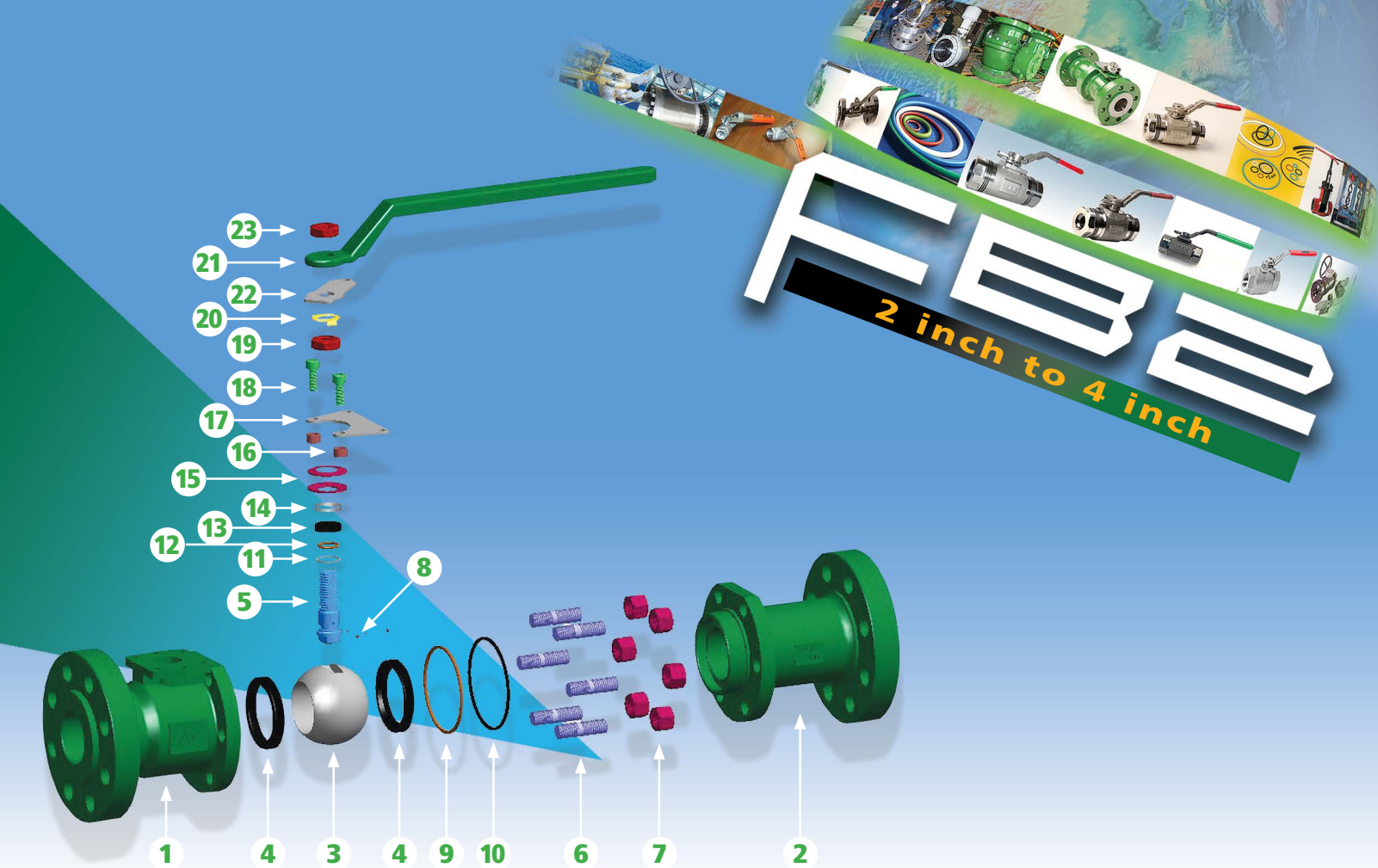
This registration also includes data sheets: 838-1205, 729-1205, 7315W-1205, 7315SW-1205, 7325W-1205, and 7325SW-1205.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts. Enclosed are stamped prints for your reference.

Sincerely,



L.E.B., ERICK, P. Eng
Design Survey Engineer

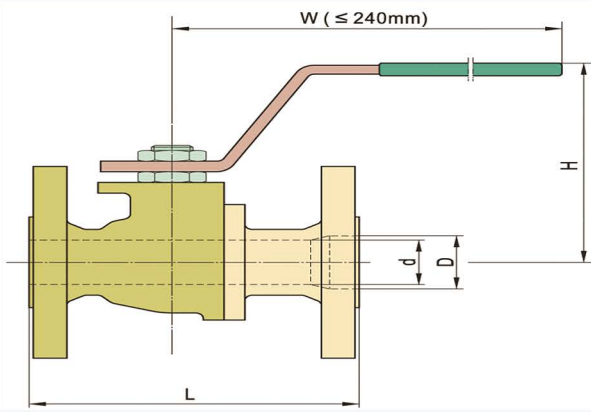


FB2 Two Piece Forged Body Floating Ball Valve – Material Specifications

No.	Part	A105N/316 NACE	Low Temp LF2/316 NACE
1	Body	ASTM A105N	ASTM A350-LF2
2	End Closure	ASTM A105N	ASTM A350-LF2
3	Ball	ASTM A351-CF8M	ASTM A351-CF8M
4	Seat	RTFE	RTFE
5	Stem	ASTM A182-F316	ASTM A182-F316
6	Body Stud	ASTM A193-B7M	ASTM A320-L7M
7	Body Nut	ASTM A194-2HM	ASTM A194-7M
8	Antistatic Device	ASTM F304	ASTM F304
9	O-ring	Viton	Viton
10	Gasket	Graphite	Graphite
11	Thrust Washer	RTFE	RTFE
12	O-ring	Viton	Viton
13	Packing	Graphite	Graphite
14	Packing Ring	ASTM A276-GR304	ASTM A276-GR304
15	Belleville Washer	Spring Steel	Spring Steel
16	Spacer	Carbon Steel - Plated	Carbon Steel - Plated
17	Lock Plate	Carbon Steel - Plated	Carbon Steel - Plated
18	Cap Screw	Carbon Steel	Carbon Steel
19	Gland Nut	Carbon Steel - Plated	Carbon Steel - Plated
20	Lock Washer	Carbon Steel - Plated	Carbon Steel - Plated
21	Lever Handle	Carbon Steel	Carbon Steel
22	Stopper Plate	Carbon Steel - Plated	Carbon Steel - Plated
23	Lever Handle Nut	Carbon Steel - Plated	Carbon Steel - Plated

DIMENSIONS

2 inch to 4 inch



FB2 Forged - CLASS 150 Full Bore

Size		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
2	50	2	50.8	7	178	5.39	137	10	250	24.23	11
3	80	3	76	8	203	6.84	173.7	16	400	52.42	23.8
4	100	4	100	9	228.5	8.62	219	18	450	83.26	37.8

FB2 Forged - CLASS 300 Full Bore

Size		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
2	50	2	50.8	8.5	216	5.39	137	10	250	31.28	14.2
3	80	3	76	11.14	283	6.84	173.7	16	400	70.48	32
4	100	4	100	12	305	8.62	219	18	450	118.50	53.8

FB2 Forged - ASME 600 Full Bore

Size		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
2	50	2	50.8	11.5	292	5.39	137	10	250	40.53	18.4
3	80	3	76	14	356	6.84	173.7	16	400	87.67	39.8
4	100	4	100	17	432	8.62	219	18	450	183.92	83.5

FB2 Forged - CLASS 150 Reduced Bore

Size		d		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
2x1.5	50x38	1.5	38	2	50.8	7	178	5.08	129	8	203	22.03	10
3x2	80x50	2	50.8	3	76	8	203	5.47	139	10	250	37.00	16.8
4x3	100x80	3	76	4	100	9	228.5	6.84	173.7	16	400	63.44	28.8

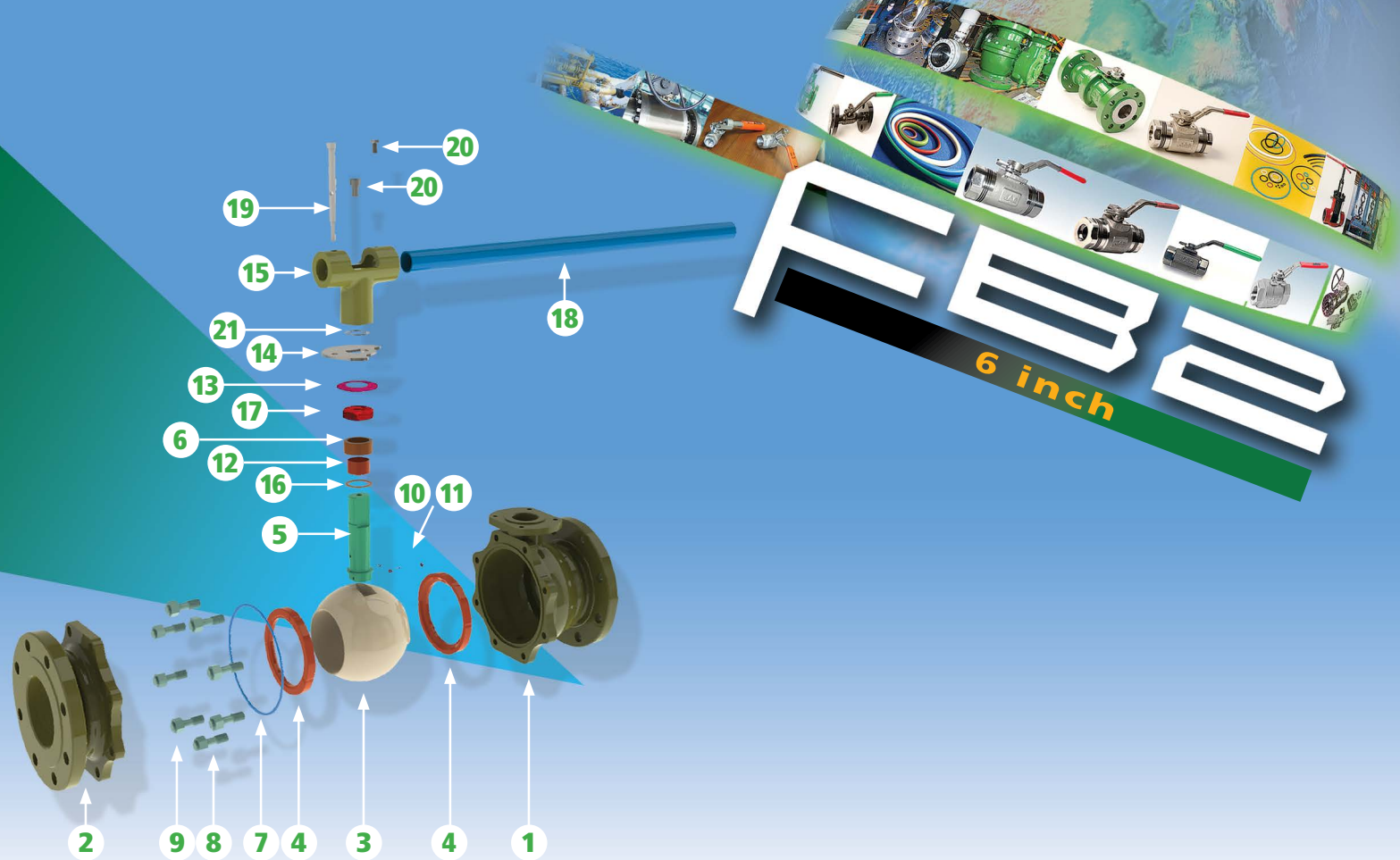
FB2 Forged - CLASS 300 Reduced Bore

Size		d		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
2x1.5	50x38	1.5	38	2	50.8	8.5	216	5.08	129	8	203	27.75	12.6
3x2	80x50	2	50.8	3	76	11.14	283	5.47	139	10	250	47.58	21.6
4x3	100x80	3	76	4	100	12	305	6.84	173.7	16	400	90.75	41.2

FB2 Forged - ASME 600 Reduced Bore

Size		d		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
2x1.5	50x38	1.5	38	2	50.8	11.5	292	5.08	129	8	203	40.53	18.4
3x2	80x50	2	50.8	3	76	14	356	5.47	139	10	250	62.33	28.3
4x3	100x80	3	76	4	100	17	432	6.84	173.7	16	400	134.80	61.2

* Imperial dimensions are for reference only and have been rounded off to the nearest decimal.

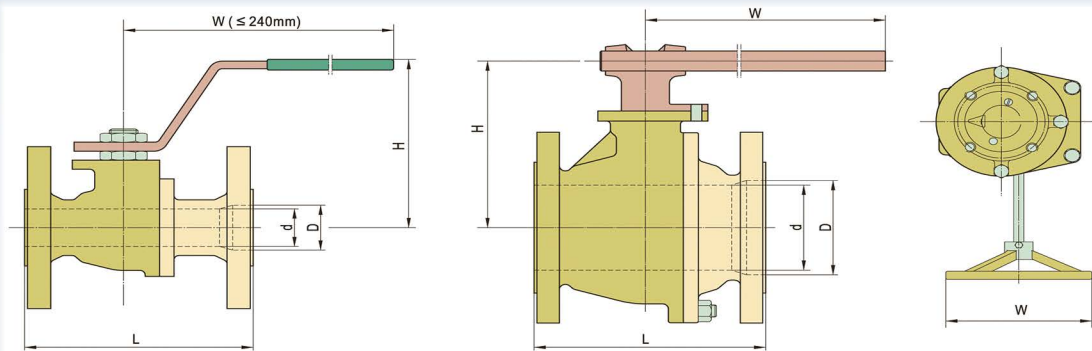


FB2 Two Piece Cast Body Floating Ball Valve – Material Specifications

No.	Part	A216 WCB/316 NACE	A352 GR LCC/316 NACE
1	Body	ASTM A216-WCB	ASTM A352-LCC
2	End Closure	ASTM A216-WCB	ASTM A352-LCC
3	Ball	ASTM A182-F316	ASTM A182-F316
4	Seat	RTFE	RTFE
5	Stem	ASTM A182-F316	ASTM A182-F316
6	Packing Ring	ASTM A276-GR304	ASTM A276-GR304
7	Gasket	Graphite	Graphite
8	Body Stud	ASTM A193-B7M	ASTM A320-L7M
9	Body Nut	ASTM A194-2HM	ASTM A194-7M
10	Steel Ball	Stainless Steel	Stainless Steel
11	Antistatic Spring	Inconel X-750	Inconel X-750
12	Packing	Graphite	Graphite
13	Belleville Washer	Spring Steel	Spring Steel
14	Lock plate	Carbon Steel - Plated	Carbon Steel - Plated
15	Lever Head	Carbon Steel - Zinc Plated	Carbon Steel - Zinc Plated
16	Thrust Washer	PTFE	PTFE
17	Gland Nut	Carbon Steel - Plated	Carbon Steel - Plated
18	Lever Handle	Carbon Steel - Zinc Plated	Carbon Steel - Zinc Plated
19	Position Screw	Carbon Steel	Carbon Steel
20	Screw	Carbon Steel	Carbon Steel
21	Lock Washer	Carbon Steel - Plated	Carbon Steel - Plated

DIMENSIONS

6 inch



FB2 Cast - CLASS 150 Full Bore

Size		d		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
6	150	6	150	6	150	15.5	395	30	760	10.7	272	165	75

FB2 Cast - CLASS 150 Reduced Bore

Size		d		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
6x4	150x100	4	100	6	150	15.5	395	20	510	8	203	121	55

FB2 Cast - CLASS 300 Full Bore

Size		d		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
6	150	6	150	6	152	15.9	403	30	760	12	304	275	126

FB2 Cast - CLASS 300 Reduced Bore

Size		d		D		L		H		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg
6x4	150x100	4	100	6	150	15.87	403	20	510	8	203	165	75

* Imperial dimensions are for reference only and have been rounded off to the nearest decimal.

Formulas

FLOW COEFFICIENT (Cv)

The Flow Coefficient of a valve is the flow rate of water (gallons/minute) through a fully open valve, with a pressure drop of 1 psi across the valve. To find the flow of liquid through a valve from the Cv, the following formulas;

Liquid Flow

QL = Flow rate of liquid (gal./min.)

ΔP = Differential pressure across the valve (psi)

G = Specific gravity of liquid (for water, G = 1)

$$Q_L = C_v \sqrt{\frac{\Delta P}{G}}$$

Gas Flow

Qg = Flow rate of gas (CFH at STP)

P2 = Outlet pressure (psia)

g = Specific gravity of gas (for air, g = 1.000)

$$Q_g = 61 C_v \sqrt{\frac{P_2 \Delta P}{g}}$$

ANSI Class	ASME Group 1.1 (WCB/LCC & A105N/LF2)	ASME Group 2.2 (CF8M/316SS)
150 (PN 20)	285 PSI	275 PSI
300 (PN 50)	740 PSI	720 PSI
600 (PN 100)	1480 PSI	1440 PSI
900 (PN 150)	2220 PSI	2160 PSI
1500 (PN 250)	3705 PSI	3600 PSI
2500 (PN 420)	6170 PSI	6000 PSI

*Maximum Allowable Pressure at 100 Deg F

Distance

inch x 25.4 = mm
mm x 0.039 = inch
ft x 0.305 = meters
meters x 3.28 = feet

Pressure

PSI x 6.89 = kPa
kPa x 0.145 = PSI
PSI x 0.0689 = bar
bar x 14.50 = PSI

Temperature

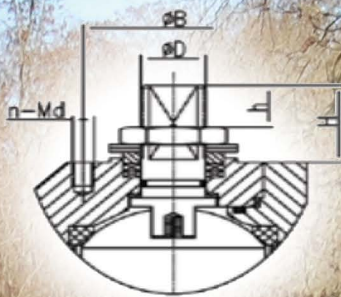
Celsius Fahrenheit
(Deg F - 32) ÷ 1.8 (Deg C x 1.8) + 32

Torque

N.m. x 0.737 = Ft/Lbs.
Ft/Lbs. x 1.356 = N.m.

Weight

Kg. x 2.2 = Lbs.
Lbs. x 0.45 = Kg.



TOP WORKS AND TORQUES

TOP WORK DIMENSIONS (ISO 5211)

Class 150 - Forged

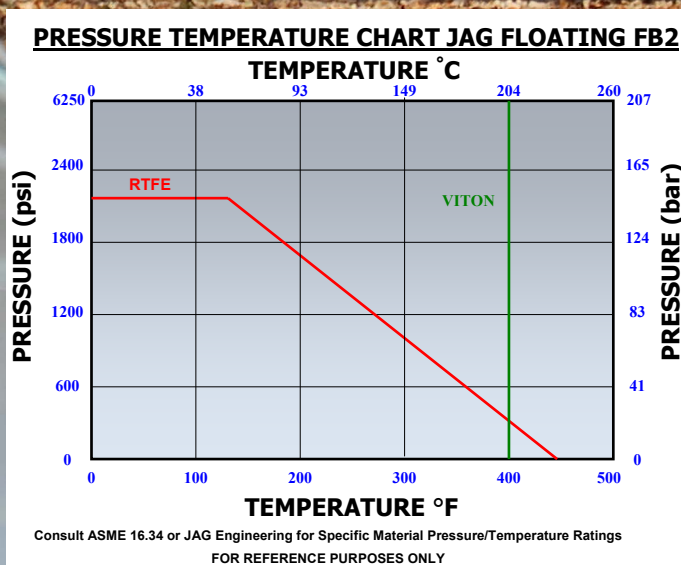
Size	ISO Flange	n-Md (mm)	Double D Flats	B(mm)	D (mm)	H (mm)	h (mm)	Hole Depth
2" 150	F07	4-M8	14	70	18	38	23	12
3" 150	F10	4-M10	22	102	30	58	35	15
4" 150	F10	4-M10	27	102	39	78	48	15

Class 300 - Forged

Size	ISO Flange	n-Md (mm)	Double D Flats	B(mm)	D (mm)	H (mm)	h (mm)	Hole Depth
2" 300	F07	4-M8	14	70	18	38	23	12
3" 300	F10	4-M10	22	102	30	58	35	15
4" 300	F10	4-M10	27	102	39	78	48	15

Class 600 - Forged

Size	ISO Flange	n-Md (mm)	Double D Flats	B(mm)	D (mm)	H (mm)	h (mm)	Hole Depth
2" 600	F07	4-M8	14	70	18	38	23	12
3" 600	F10	4-M10	22	102	30	58	35	15
4" 600	F10	4-M10	27	102	39	78	48	15



BUILT WITH INTEGRITY



Built with Integrity

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