

FLAPCON[®]

Tomorrow's Safety Today

FBA312-BS BALL VALVE

Three Pieces Body
Lever Operation
ISO 5211 Top Flange
DIN 3202-M3



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



ACCREDITED
Management Systems
Certification Body
MSCB-135



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ABOUT FLAPCON

Company Profile

As a Flapcon Family;

Based on our knowledge and experience gained in the field of valves and automation for over 17 years, we meet customer needs with the best solution applications. Flapcon was established in 2017 to meet the valve and actuator needs of industrial users with accurate, timely and highest quality solutions.

Flapcon was established to bring industrial valves - actuators and automation technology equipment together with industrial users. We produce high quality solutions in the design, manufacturing and sales of manual and automatic process valves for all industry areas. With our comprehensive technical knowledge and experienced staff, we produce solutions for our customers to meet most valve and actuator requirements.

We aim to be a constantly preferred brand thanks to our high quality products compiled according to the needs of the processes and our competitive pricing policy.

Our products; It is used in nearly every industry including Oil & Gas, Refining, Petrochemical, Chemical Processing, Pulp & Paper, Mining, Transportation, Food & Beverage, Pharmaceutical, Marine, HVAC, Drinking and Wastewater treatment and more.

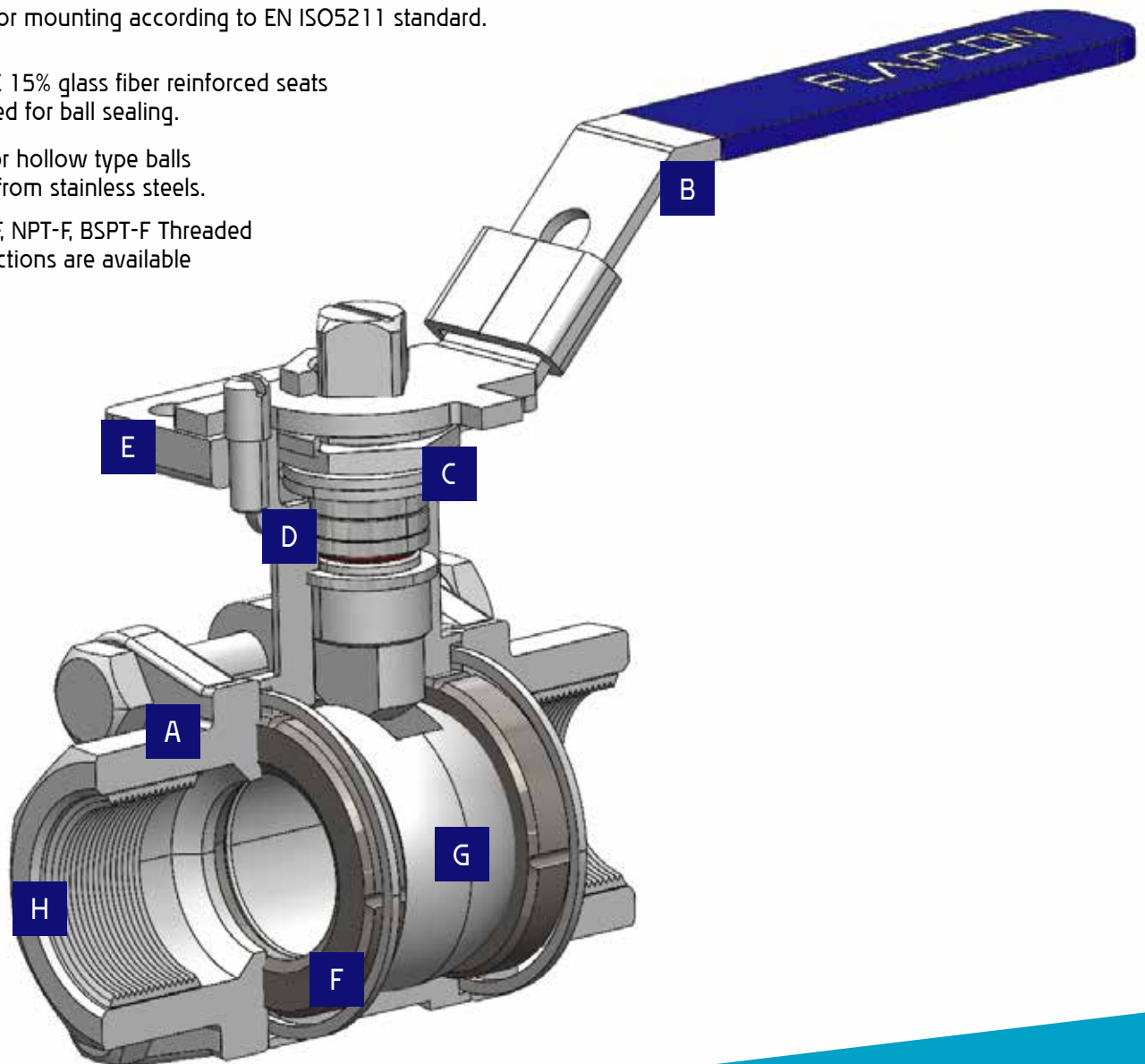
Kind Regards

FLAPCON VALVES & AUTOMATION SYSTEMS CO. LTD.

FBA 312-BS SERIES BALL VALVES

Performance Features

- A** High-tech bodies cast with precision casting technique are processed with high-precision CNC machines.
- B** Lever operation for manual use
- C** Superior performance with blow-proof plate spring pressure system
- D** V-Ring sealing system made of PTFE material
- E** Actuator mounting according to EN ISO5211 standard.
- F** R-PTFE 15% glass fiber reinforced seats are used for ball sealing.
- G** Solid or hollow type balls made from stainless steels.
- H** BSPP-F, NPT-F, BSPT-F Threaded connections are available



FBA 312-BS SERIES BALL VALVES

Technical Literature

A - Body

FBA312-BS Series ball valves have a three pieces construction with investment castings.

B - Body

FBA312-BS series ball valves are produced with lever control as standard and are not compatible with actuator use.

C - Plate Springs

The plate spring system ensures shaft sealing by applying constant pressure to the shaft. The plate springs provide constant pressure to the Teflon sealing unit located in the shaft neck. Additionally, a gland maintains this pressure, eliminating the risk of explosion. An anti-static device is available upon request.

D - V-Ring System

Packings with a V-shaped bearing create a concentric coating under the pressure of the plate spring. This increases the adhesion of the gasket to the body, preventing leakage.

E - Top Flange

FBA312-BS Series ball valves are produced with lever control as standard and are compatible with EN ISO5211 top flange to actuator use.

F - Ball Seats

Teflon materials reinforced with 15% glass fiber reinforcement are machined with high precision on CNC machines. When the housing covers are tightened with bolts, these seats fit perfectly onto the ball surface. As pressure increases, sealing is achieved.

G - Ball

Balls are manufactured from solid stainless steel up to DN32 as standard. Larger diameters are manufactured as hollow. However, all balls can be manufactured as solid upon request.

H - Ends

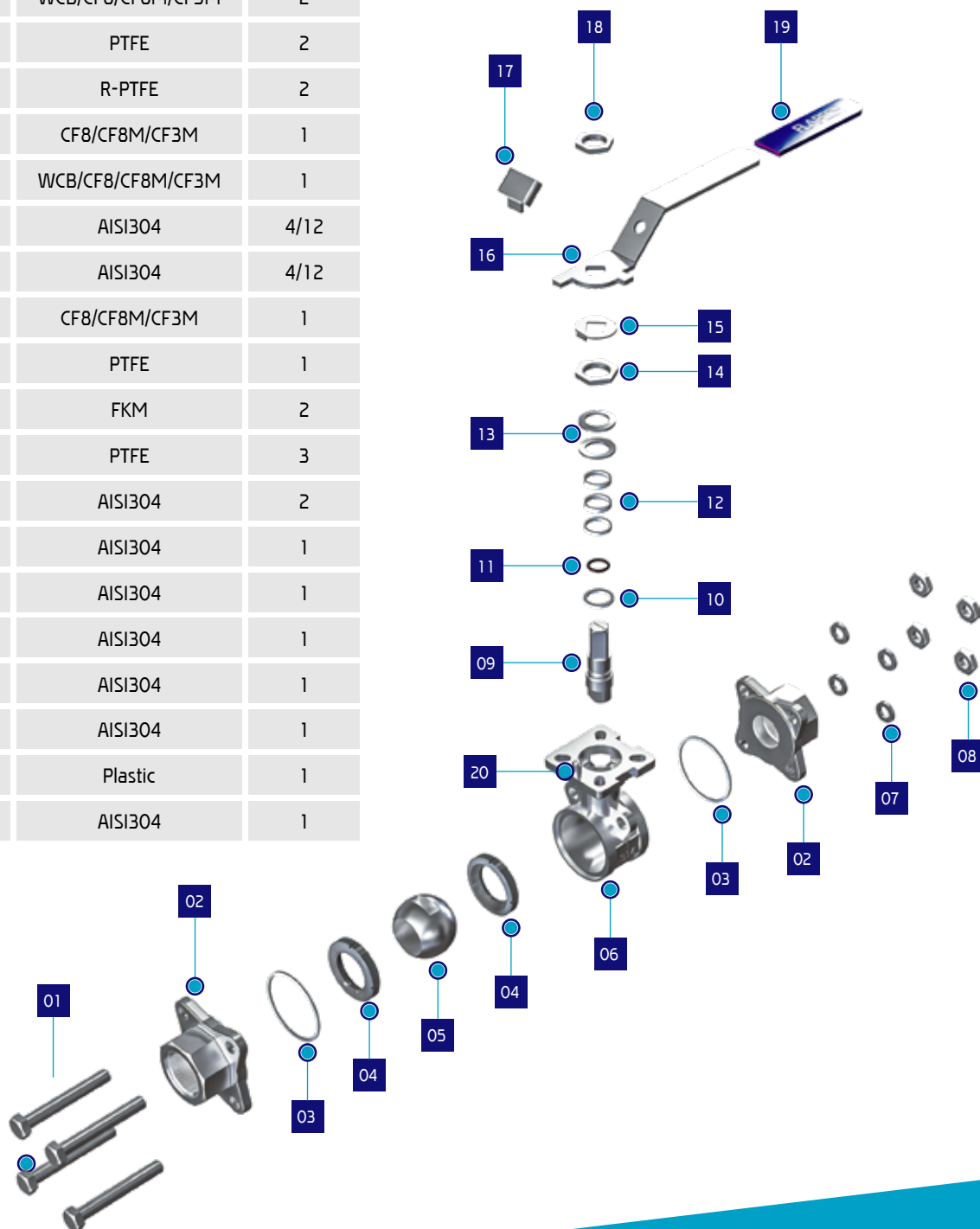
FBA312-BS series ball valves are manufactured with RF PN16~40 Flanged.

SPECIFICATIONS	DESCRIPTIONS
Dimensions	DN8 ~ DN100 (NPS 1/4" ~ NPS 4")
Pressure Class	PN 63 (913 PSI)
Vacuum	-760 mm/HG
Temperature Ratings	-25 °C ~ +180 °C (-13 °F ~ 356 °F)
Face to Face	DIN 3202-M3
Materials	Investment casting for body & caps

FBA 312-BS SERIES BALL VALVES

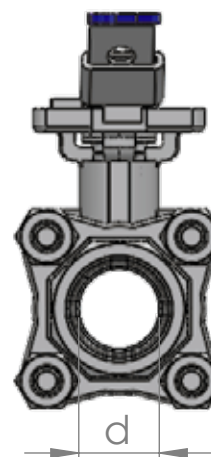
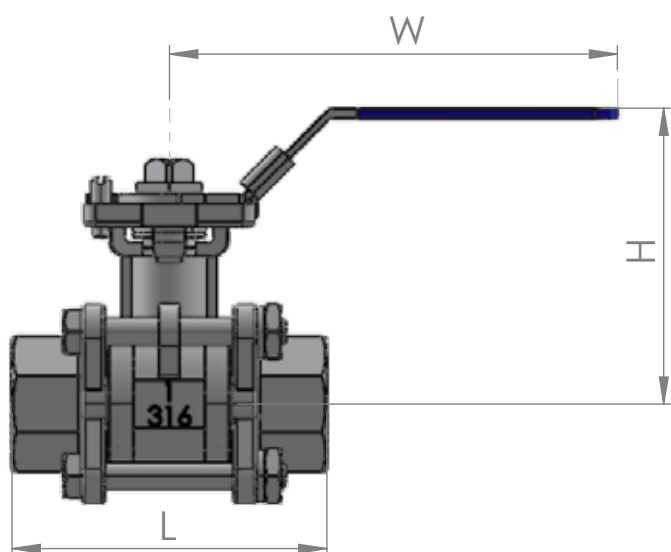
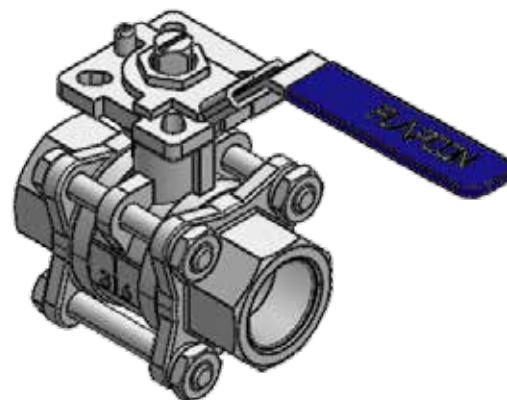
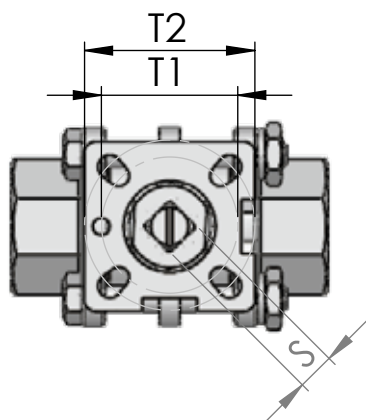
Part List "DN8 ~ 100"

ITEM	PART NAME	MATERIALS	QTY'S
01	Bolt	AISI304	4/6
02	Side Body	WCB/CF8/CF8M/CF3M	2
03	Body Gasget	PTFE	2
04	Seat	R-PTFE	2
05	Ball	CF8/CF8M/CF3M	1
06	Body	WCB/CF8/CF8M/CF3M	1
07	Washer	AISI304	4/12
08	Nut	AISI304	4/12
09	Stem	CF8/CF8M/CF3M	1
10	Packing	PTFE	1
11	O-Ring	FKM	2
12	Packing	PTFE	3
13	Plate Spring	AISI304	2
14	Nut	AISI304	1
15	Position Stopper	AISI304	1
16	Lever	AISI304	1
17	Lock Device	AISI304	1
18	Nut	AISI304	1
19	Sleeve	Plastic	1
20	Stop Pin	AISI304	1



FBA 312-BS SERIES BALL VALVES

Technical Drawing "DN8 ~ 100"

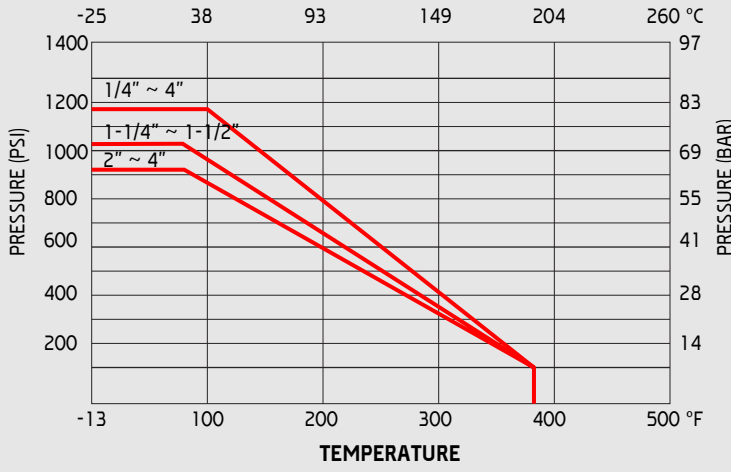


FBA 312-BS SERIES BALL VALVES

Dimensions in "mm"

DN	INCH	d	L	H	S	W	T1	T2	Nm	Kgs (Solid)
8	1/4"	11	50	59	9X9	115	F03	-	4	0,46
10	3/8"	12,5	60	59	9X9	115	F03	-	4	0,48
15	1/2"	15	75	70	9X9	117	F03	F04	5	0,50
20	3/4"	20	80	78	11X11	134	F04	F05	8	0,89
25	1"	25	90	87	11X11	134	F04	F05	10	1,28
32	1-1/4"	32	110	98	14X14	203	F05	F07	14	1,99
40	1-1/2"	40	120	104	14X14	203	F05	F07	18	2,96
50	2"	50	140	112	14X14	203	F05	F07	25	3,75
65	2-1/2"	65	185	140	17X17	255	F07	F10	48	7,80
80	3"	80	205	153	17X17	255	F07	F10	75	12,40
100	4"	100	240	166	17X17	302	F07	F10	110	20,80

Technical Details

DN	NPS	Cv	Kv (m ³ /h)	Kgs (Hollow)	Pressure - Temperature Rating	
8	1/4"	10.00	8.60	-		
10	3/8"	24.50	21.00	-		
15	1/2"	40.80	35.00	-		
20	3/4"	53.70	46.00	-		
25	1"	84.00	72.00	-		
32	1-1/4"	122.50	105.00	-		
40	1-1/2"	198.40	170.00	2.76		
50	2"	320.90	275.00	3.35		
65	2-1/2"	591.70	507.00	6.90		
80	3"	1056.10	905.00	10.00		
100	4"	1650.10	1414.00	16.90		



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Authorized Distributor

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FLAPCON VALVES & AUTOMATION SYSTEMS CO. LTD.

TEL : +90(216) 660 10 26 FAX : +90(216) 660 10 27

E-MAIL : INFO@FLAPCON.COM