

FLAPCON[®]

Tomorrow's Safety Today

FBA 102-BS-HJ BALL VALVE

Wafer Monoblock Body
Lever Operation
ISO 5211 Top Flange
Heat-Jacket



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.

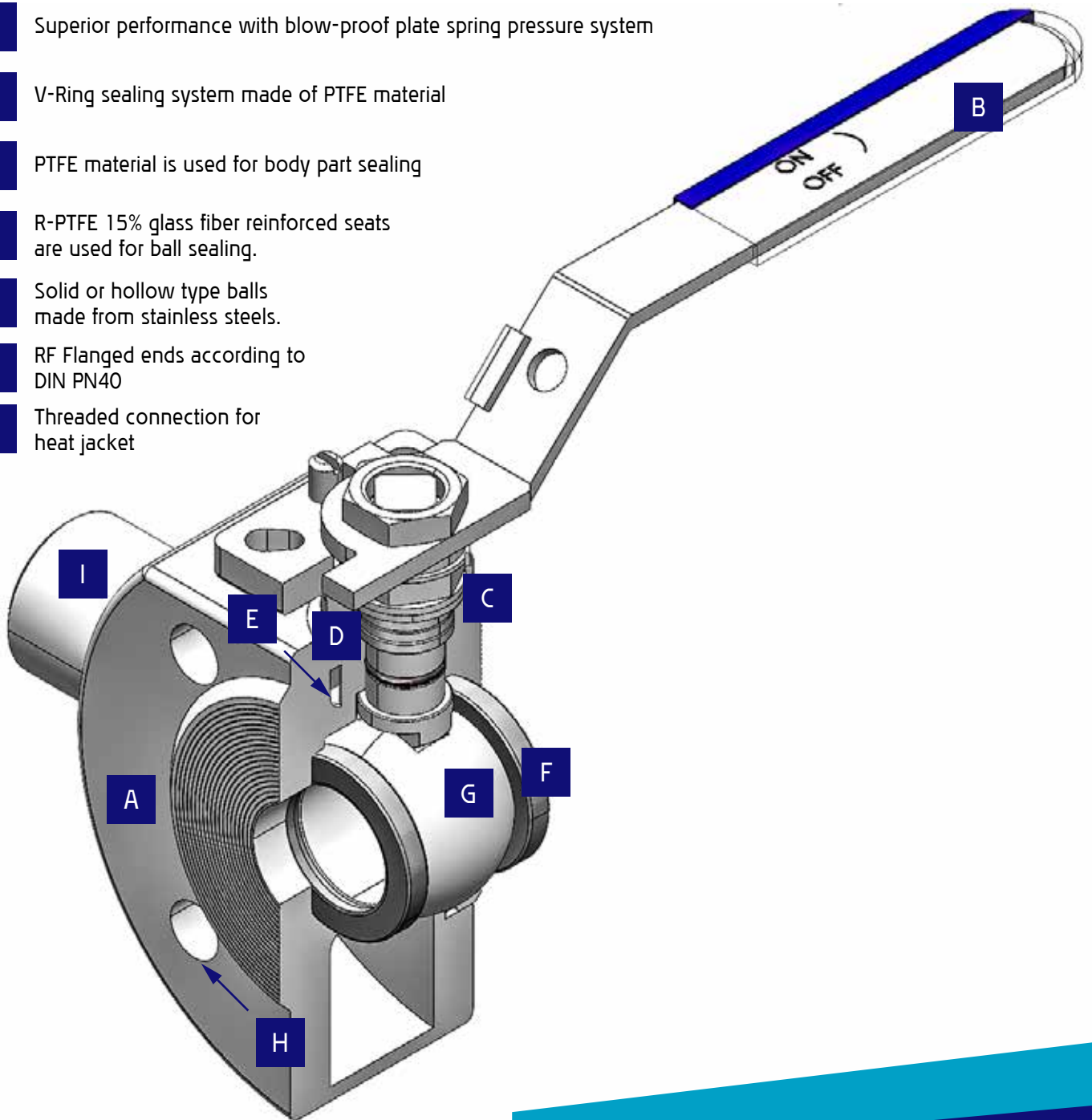
Kind Regards

FLAPCON VALVES & AUTOMATION SYSTEMS CO. LTD.

FBA 102-BS-HJ 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 and convertible actuator mounting according to EN ISO5211 standard.
- C** Superior performance with blow-proof plate spring pressure system
- D** V-Ring sealing system made of PTFE material
- E** PTFE material is used for body part sealing
- F** R-PTFE 15% glass fiber reinforced seats are used for ball sealing.
- G** Solid or hollow type balls made from stainless steels.
- H** RF Flanged ends according to DIN PN40
- I** Threaded connection for heat jacket



FBA 102-BS-HJ SERIES BALL VALVES

Technical Literature

A - Body

FBA102-BS Series ball valves have a one piece construction with investment castings.

B - Body

FBA102-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 - Body Sealing

The body consists of three parts. These three parts are connected using four or six bolts. However, no leakage must occur between the bodies. Specially machined body seals made of PTFE are fitted into the channel slots between these parts. The body bolts increase the pressure, ensuring a tight seal between the bodies.

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

FBA102-BS series ball valves are manufactured with raised face flanges according to EN 1092-1 PN40 flange standard.

I - Heat Jacket

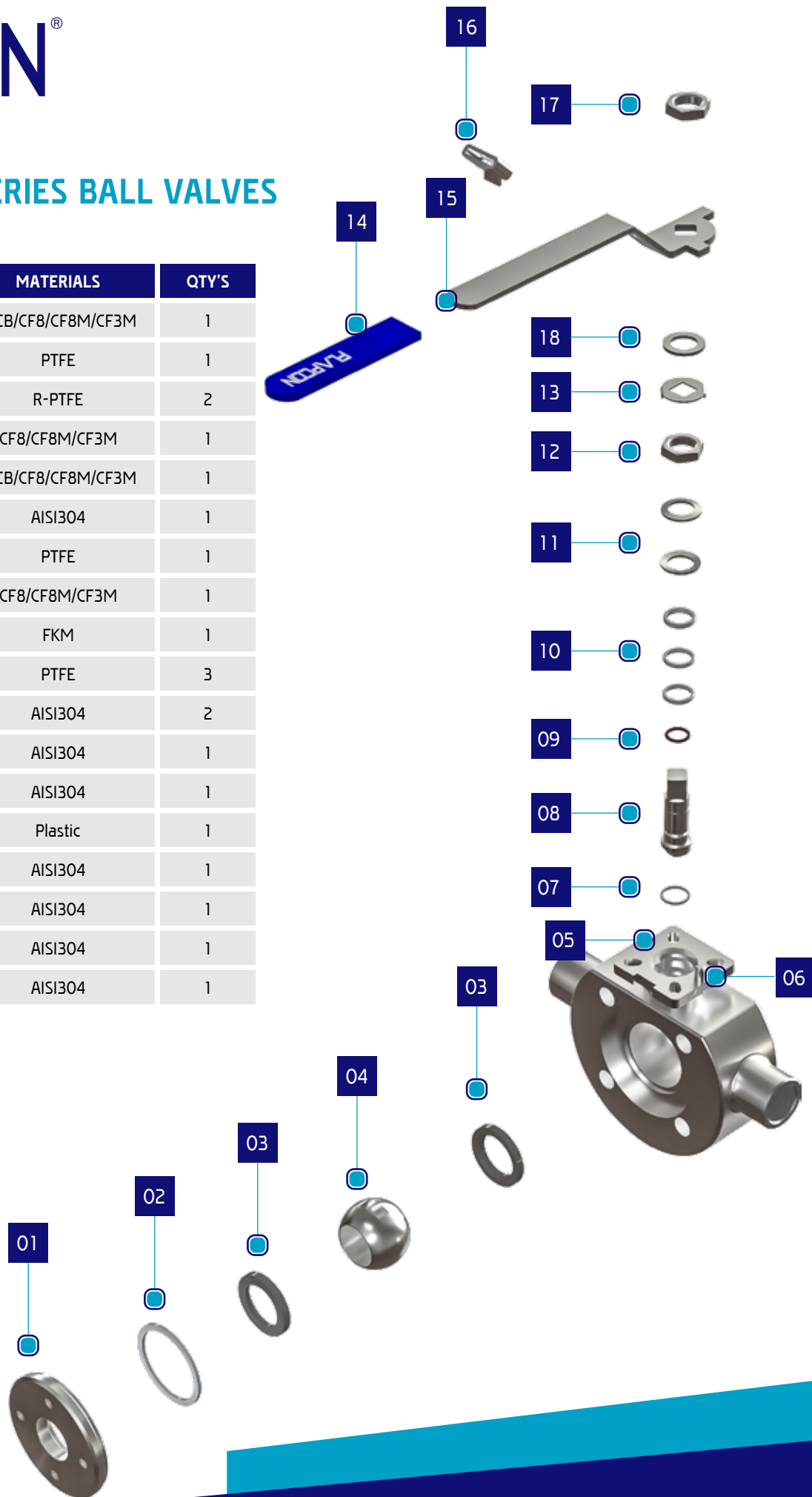
You can supply steam or hot oil to the heat jacket at a maximum of 10 bar. The heat jacket inlet is threaded as standard, but flanged connections are also available upon request.

SPECIFICATIONS	DESCRIPTIONS
Dimensions	DN15 ~ DN200 (NPS 1/2" ~ NPS 8")
Pressure Class	PN 40 (580 PSI)
Vacuum	-760 mm/HG
Temperature Ratings	-25 °C ~ +180 °C (-13 °F ~ 356 °F)
Face to Face	Manufacturer standard
Materials	Investment casting for body & caps
Dimensions	DN15 ~ DN100 (NPS 1/2" ~ NPS 4")

FBA 102-BS-HJ SERIES BALL VALVES

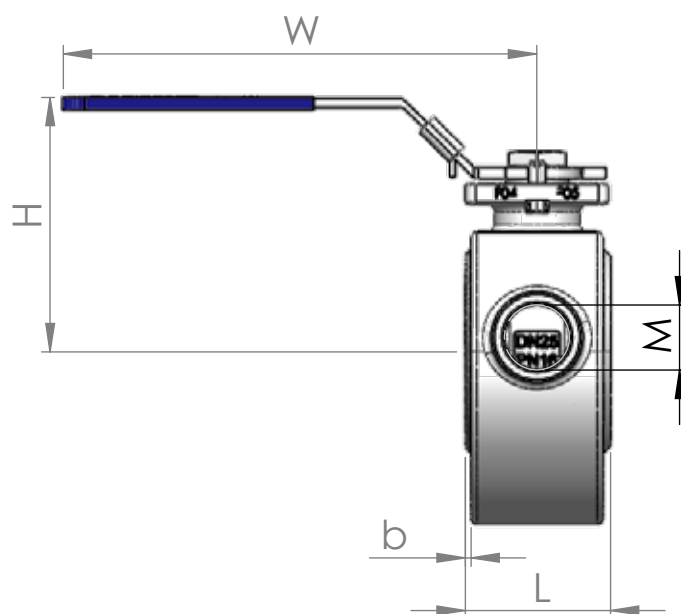
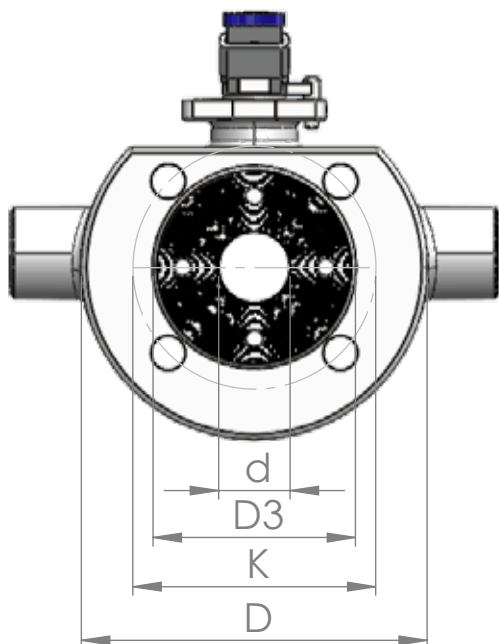
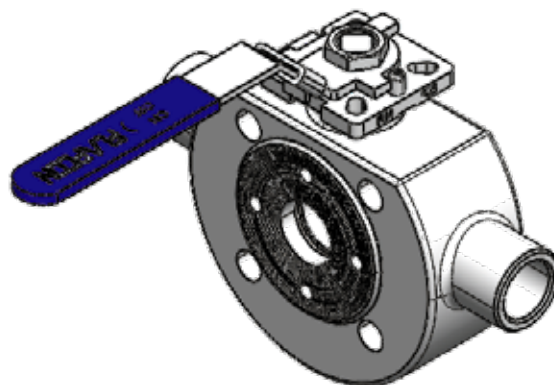
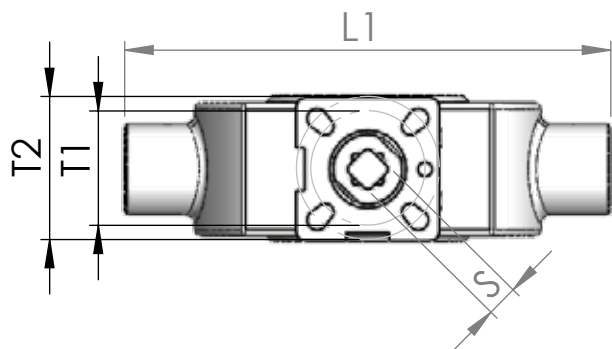
Part List "DN15 ~100"

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



FBA 102-BS-HJ SERIES BALL VALVES

Technical Drawing "DN15 ~ 100"



FBA 102-BS-HJ SERIES BALL VALVES

Dimensions in "mm" "DN15 ~100"

DN	NPS	PN	T1	T2	d	D3	K	D	L	L1	W	H	f	M	n-M	Nm	S ◇
15	1/2"	10 ~ 40	F03	F04	15	45	65	95	36	150	117	89	2	3/4"	4-M12	5	9X9
20	3/4"	10 ~ 40	F03	F04	20	58	75	105	38	160	117	94	2	3/4"	4-M12	8	9X9
25	1"	10 ~ 40	F04	F05	25	68	85	115	50	170	164	90	2	3/4"	4-M12	10	11X11
32	1-1/4"	10 ~ 40	F04	F05	32	78	100	140	53	190	164	100	2	3/4"	4-M16	14	11X11
40	1-1/2"	10 ~ 40	F05	F07	40	88	110	150	65	200	203	105	3	3/4"	4-M16	18	14X14
50	2"	10 ~ 40	F05	F07	50	102	125	165	78	210	203	125	3	3/4"	4-M16	25	14X14
65	2-1/2"	10 ~ 16	F07	F10	64	122	145	185	98	235	255	140	3	3/4"	4-M16	48	17X17
		25 ~ 40										160			8-M16		
80	3"	10 ~ 16	F07	F10	76	138	160	200	118	250	255	156	3	3/4"	8-M16	75	17X17
		25 ~ 40										168					
100	4"	10 ~ 16	F07	F10	93	158	180	220	140	270	302	175	3	3/4"	8-M16	110	17X17
		25 ~ 40				162	190	235				192			8-M20		

DN	NPS	Cv	Kv (m³/h)	Kgs (Hollow)	Pressure - Temperature Rating	
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	3.80		
50	2"	320.90	275.00	5.01		
65	2-1/2"	591.70	507.00	7.85		
80	3"	1056.10	905.00	11.00		
100	4"	1650.10	1414.00	16.80		



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Authorized Distributor

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