

FLAPCON[®]

Tomorrow's Safety Today

FBA212-HL BALL VALVE

Two Pieces Body
Lever Operation
DIN 3202-M3



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



ACCREDITED
Management System
Certification Body
MSCB-135



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more than
Flow Control

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.

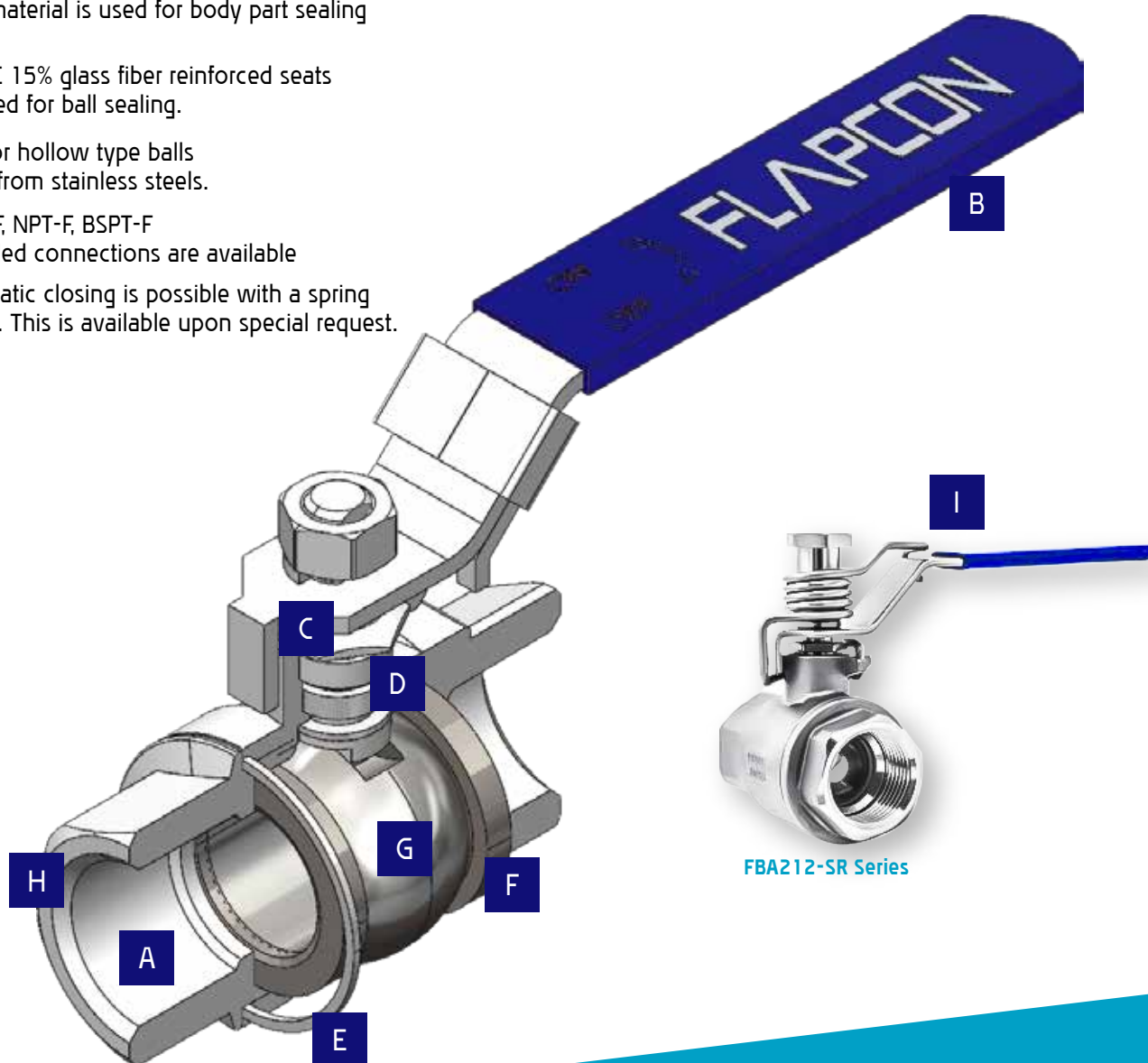
Kind Regards

FLAPCON VALVES & AUTOMATION SYSTEMS CO. LTD.

FBA 212-HL 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** 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** BSPP-F, NPT-F, BSPT-F
Threaded connections are available
- I** Automatic closing is possible with a spring device. This is available upon special request.



FBA212-SR Series

FBA 212-HL SERIES BALL VALVES

Technical Literature

A - Body

FBA212-HL Series ball valves have a three pieces construction with investment castings.

B - Body

FBA212-HL 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

FBA212-HL series ball valves are manufactured with BSPP, NSP, BSPT female threaded connections.

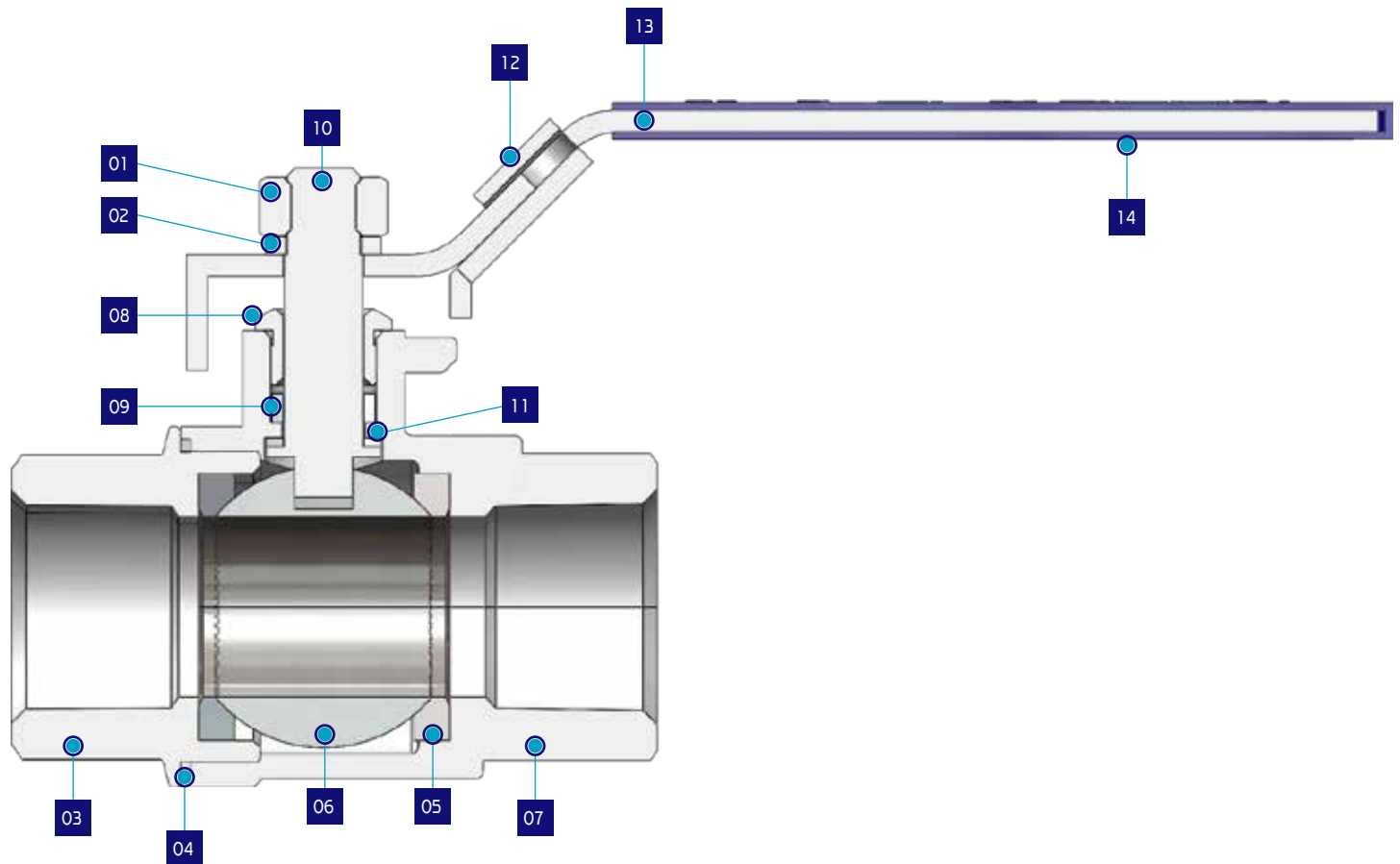
I - Spring Return Lever

FBA212-HL series valves are equipped with a spring and a tool. The valve opens manually and closes automatically with a spring.

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 212-HL SERIES BALL VALVES

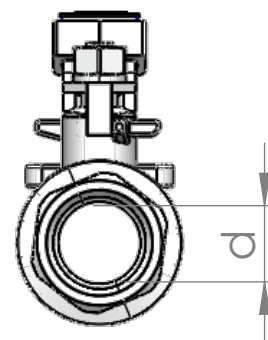
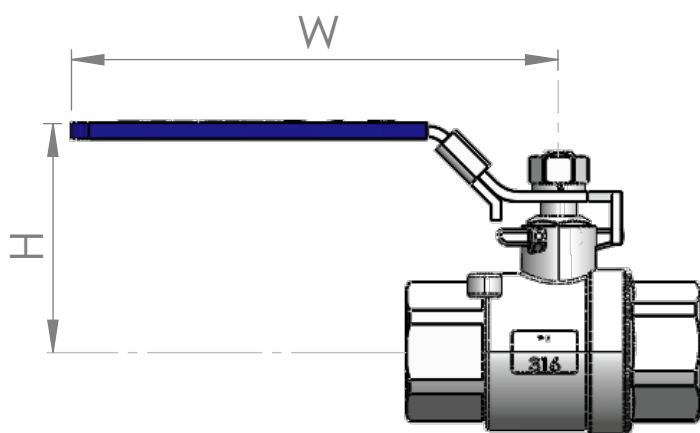
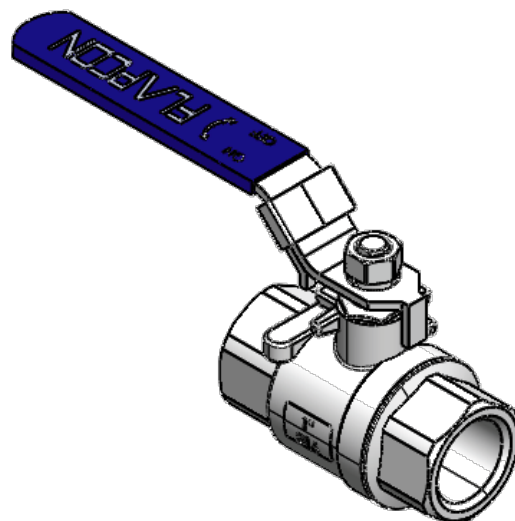
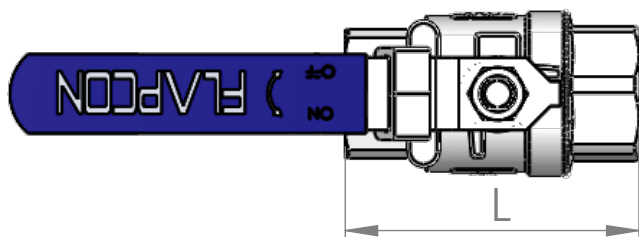
Part List



ITEM	PART NAME	MATERIALS	QTY'S	ITEM	PART NAME	MATERIALS	QTY'S
01	Nut	AISI304	1	08	Gland	AISI304	1
02	Washer	AISI304	1	09	Packing	PTFE	1
03	Side Body	WCB/CF8/CF8M/CF3M	1	10	Stem	CF8/CF8M/CF3M	1
04	Body Sealing	Body Sealing	1	11	Packing	PTFE	1
05	Seat	R-PTFE	2	12	Lock Device	AISI304	1
06	Ball	CF8/CF8M/CF3M	1	13	Lever	AISI304	1
07	Body	CF8/CF8M/CF3M	1	14	Sleeve	Plastic	1

FBA 212-HL SERIES BALL VALVES

Technical Drawing

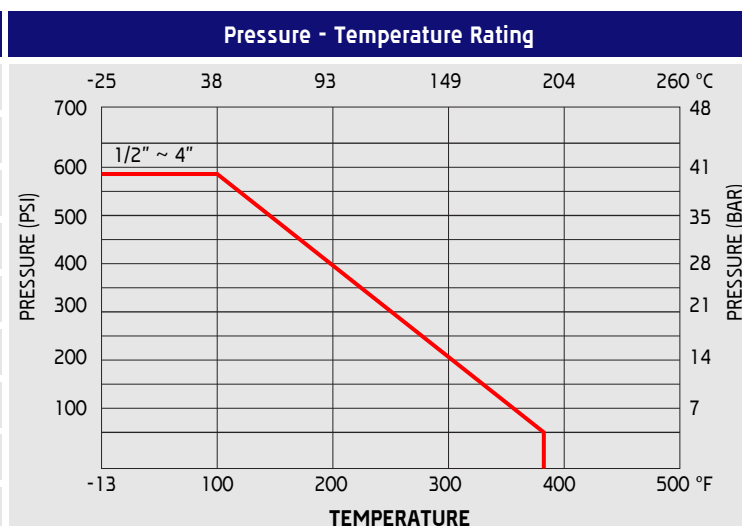


FBA 212-HL SERIES BALL VALVES

Dimensions in "mm"

DN	NPS	d	L	H	W	Nm	Kgs (Hollow / Solid)
8	1/4"	6	50	50	105	4	0.22
10	3/8"	10	60	50	105	4	0.20
15	1/2"	15	75	52	105	5	0.34
20	3/4"	20	80	57	118	8	0.52
25	1"	25	90	78	150	10	0.78
32	1-1/4"	32	110	88	150	14	1.23
40	1-1/2"	40	120	95	182	18	1.82 / 2.00
50	2"	50	140	100	182	25	2.62 / 2.98
65	2-1/2"	65	185	120	254	48	5.30 / 6.05
80	3"	80	205	130	254	75	8.01 / 9.90
100	4"	100	240	160	285	110	13.00 / 16.60

DN	NPS	Cv	Kv (m³/h)	Kgs (Hollow)
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	1.82
50	2"	320.90	275.00	2.62
65	2-1/2"	591.70	507.00	5.30
80	3"	1056.10	905.00	8.01
100	4"	1650.10	1414.00	13.00





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Authorized Distributor

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