



Shut-off ball valve split-body type with the body in stainless steel CF8-M with a floating ball, manufactured in accordance with the most severe product standards and the quality management of ISO 9001.

Suitable for chemical and industrial plants, for heating and conditioning (HVAC), district heating, agricultural applications, oils and hydrocarbons. (Please ensure the choice of the corresponding item)

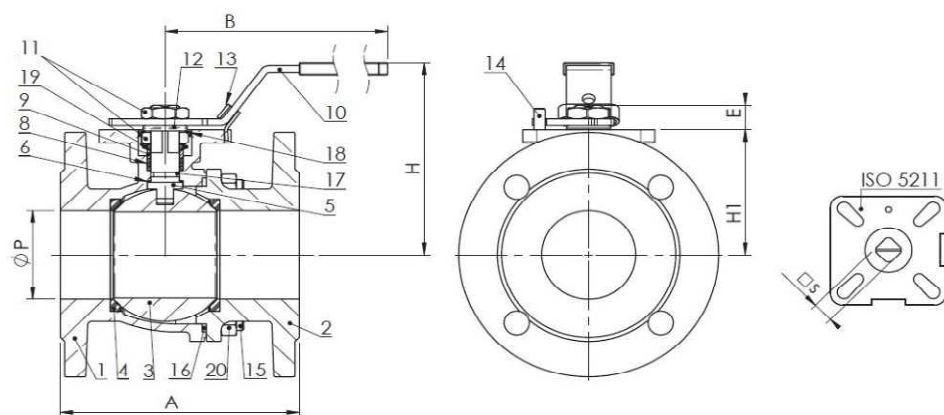
YES: for installation in line and end of line, for services with frequent actuation, suitable for installation of manual, electric and pneumatic servo commands.

Full and straight bore reducing turbulences and minimizing head loss.

NO: for steam, for choking and regulation of the flow.



IN ACCORDING TO DIRECTIVE PED 2014/68/EU



- LOCKABLE
- WITH ISO 5211 FLANGE INTEGRATED
- ANTISTATIC DEVICE
- FIRE SAFE DESIGN
- FULL BORE

### COMPONENTS/MATERIAL

	Component	Material
1	Body	Stainless steel ASTM A351 CF8M
2	Flange	Stainless steel ASTM A351 CF8M
3	Ball	Stainless steel AISI 316
4	Ball seat	Reinforced PTFE
5	Stem	Stainless steel AISI 316
6	Sliding washer	PTFE
8	Stem packing	PTFE
9	Pressing bush	Stainless steel AISI 304
10	Lever	AISI 304 with plastic sleeve
11	Hex Nut	Stainless steel AISI 304
12	Ring	Stainless steel AISI 304
13	Stop pin pad	Stainless steel AISI 304
14	Stop pin	Stainless steel AISI 304
15	Stud bolt	Stainless steel AISI 304
16	Body seal	PTFE
17	O-ring	FKM (Viton®)
18	Spacer	Stainless steel AISI 304
19	Belleville Spring	Stainless steel AISI 301
20	Hex nut	Stainless steel AISI 304

### DIMENSIONS

DN		15	20	25	32	40	50	65	80	100	125	150
P		15	20	25	32	38	50	65	76	100	120	150
A	EN558/1 - 14	115	120	125	130	140	150	170	180	190	-	-
A	EN558/1 - 15	-	-	-	-	-	-	-	-	-	325	350
H		82	87	90	100	116	125	154	164	180	228	246
H <sub>1</sub>		43	53	58,5	71	76	85	100	112	125	155	173
B		117	117	164	164	203	203	255	255	302	600	600
C		95	105	115	140	150	165	185	200	220	250	285
F	EN 1092/1 PN16	65	75	85	100	110	125	145	160	180	210	240
n° x d		4 x 14	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18	4 x 18	8 x 18	8 x 18	8 x 18	8 x 22
ISO 5211		F03/F04	F03/F04	F04/F05	F04/F05	F05/F07	F05/F07	F07/F10	F07/F10	F07/F10	F10/F12	F10/F12
E		8	8	11	11	14	14	17	17	17	22	22
S		9	9	11	11	14	14	17	17	17	22	22

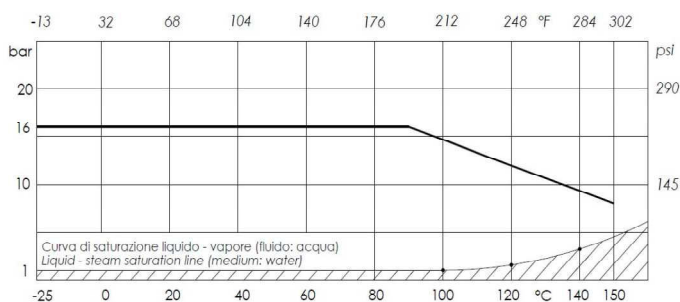
### WEIGHT

kg	2,2	3	4,2	6	7,4	10,2	13,5	18	26,5	50,5	76,8
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### OPERATION TORQUE

Nm	5	8	10	14	18	25	48	75	110	200	300
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### PRESSURE/TEMPERATURE CHART



NON ADATTA PER VAPORE. NON utilizzare in condizioni di temperatura e pressione al di sotto della curva di saturazione liquido-vapore (area tratteggiata).  
RANGE NOT SUITABLE FOR STEAM. DO NOT use when temperature and pressure are below the liquid-steam saturation line (hatched area)

### STANDARD VALVE FEATURES

- Working temperature : MIN. -25°C  
MAX. +150 °C
- Max pressure : 16 bar
- Flanged ends : UNI 1092-1 PN 16
- Locking device (on request)

Idrosfer declines every responsibility if products that are not compatible with materials used for the construction of their valves are identified.  
To be used as a guide only, Idrosfer reserves the right to modify these details if deems it appropriate and without giving prior notice.



INSTRUCTIONS

IST. DATA SHEET - 023 ING

Rev. 0

## ASSEMBLY, USE AND MAINTENANCE INSTRUCTION

**EQUIPMENT PRESSURE DESCRIPTION: FLANGED TWO WAY BALL VALVES, WITH STAINLESS STEEL BODY, FLOATING BALL**

Suitable for chemical and industrial plants, for heating and conditioning (HVAC), district heating, agricultural applications, oils and hydrocarbons. (Please ensure the choice of the corresponding item).

YES: for installation in line and end of line, for services with frequent actuation, suitable for installation of manual, electric and pneumatic servo commands. Full and straight bore reducing turbulences and minimizing head loss.

NO: for steam, for choking and regulation of the flow

### STORING

Keep in a dry and closed place.

### MAINTENANCE

The valve does not require maintenance.

### RECOMMENDATIONS

Before carrying out maintenance, or dismantling the valve, be sure that the pipes, valves and liquids have cooled down, that the pressure has decreased and that the lines and pipes have been drained in case of toxic, corrosive, inflammable or caustic liquids. Temperatures above 50°C and below 0°C might cause damage to people.

### INSTALLATION

Handle with care. The valve must be installed in the ON or OFF position. Place the valve between the flanges of the pipe and install the seal between the pipe and valve flanges. Check the correct position of the seals.

The distance between the counter flanges should be equal to the valve's face-to-face distance. Do not use bolts of the counter flanges to bring the piping close to the valve. The bolts should be cross tightened.

Do not weld the flanges to the piping after installing the valve - Water hammers might cause damage and ruptures.

Inclination, torsions and misalignments of the piping may subject the installed valve to excessive stresses. It is recommended that elastic joints be used in order to reduce such effects as much as possible.

At sub-zero temperatures, the liquid between the body and ball may freeze, causing irreparable damage. If the valve is exposed to such conditions, insulation of the valve is recommended.

It is recommended that the valve be operated periodically, to prevent the build-up of materials on the ball and the seats

### DISPOSAL

For valve operating with hazardous media (toxic, corrosive...), if there is a possibility of residue remaining in the valve, take due safety precaution and carry out required cleaning operation. Personnel in charge must be trained and equipped with appropriate protection devices. Prior to disposal, disassemble the valve and separate the component according to various materials. Please refer to product literature for more information. Forward sorted material to recycling (e.g. metallic materials) or disposal, according to local and currently valid legislation and under consideration of the environment.