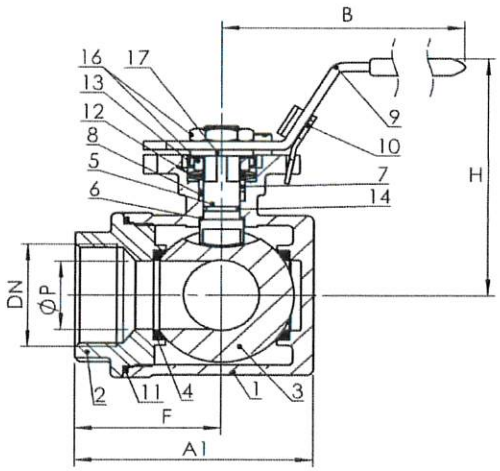
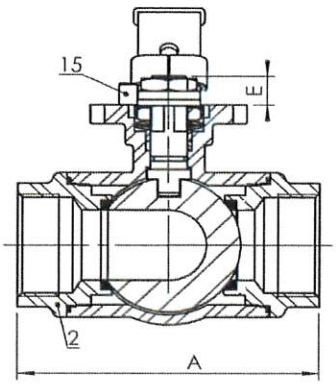
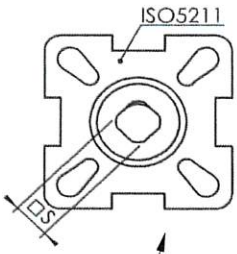
ART. 144

INOX STEEL AISI 316 THREE WAY BALL VALVE WITH "L" PORT

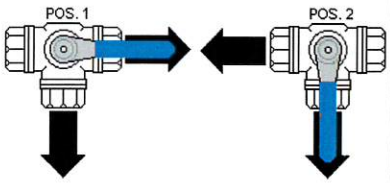




PADLOCKABLE



READY FOR MOTORIZATION



We don't assume the responsability if you use products which are notconsistent with the material used for the costruction of our valves.
To be used as a guide only, IDROSFER reserve the right to change these data without notice.

STANDARD VALVE FEATURES

-Working temperature : MIN. -25°C / MAX. +180°C
(read the pressure-temperature diagram)
-Max pressure : 63 bar from 1/4" to 2"
-Threaded ends : ISO 228/1
-Padlockable
-Ready for motorization ISO 5211

-NOT SUITABLE FOR CHOCKING
-NOT SUITABLE FOR STEAM

Data and features indicated in this brochure are just for information.

Materials

	Component	Material
1	Body	AISI 316
2	Liner	AISI 316
3	Ball	AISI 316
4	Ball seat	Reinforced PTFE
5	Stem	AISI 316
6	Sliding washer	PTFE
7	Ring	AISI 304
8	Stem seal	PTFE
9	Lever	AISI 304 with plastic sleeve

10	Lock device	AISI 304
12	Belleville Spring	AISI 301
13	Spacer	AISI 304
14	O-ring	FKM (Viton®)
15	Lever stop pin	AISI 304
16	Nut	AISI 304
17	Spring washer	AISI 301
18	Tie rod	AISI 304

Dimensions (mm)

DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
P	9,5	11	12	15	20	25	32	40
A	75	75	75	85	100	122	131	158
A1	57,5	57,5	57,5	65,5	79	97	106,5	129
F	37,5	37,5	37,5	42,5	50	61	65,5	79
B	130	130	130	161	161	203	203	203
H	66	66	66	2	77	92	96	107
S	9	9	9	11	11	14	14	14
ISO 5211	F03/F04	F03/F04	F03/F04	F04/F05	F04/F05	F05/F07	F05/F07	F05/F07

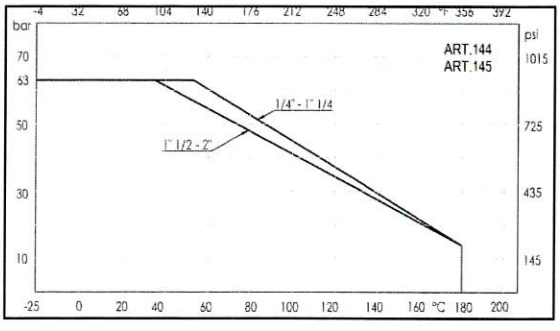
Weight (kg)

04.622	0,70	0,67	0,63	0,94	1,39	2,91	3,66	6,31

Operating torque (Nm)

Nm	8	8	8	9	15	20	30	45

IN ACCORDING TO DIRECTIVE PED 2014/68/EU



N.B.: *In order to choose the right actuator, we recommend multipiying the operating torque figure by a safety coefficient, K=1.5*

01/2018

ASSEMBLY, USE AND MAINTENANCE INSTRUCTION

EQUIPMENT PRESSURE DESCRIPTION: TWO AND THREE 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 services with frequent actuation; suitable for installing of manual, electric and pneumatic servo-commands.

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 either the ON or OFF position.
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.