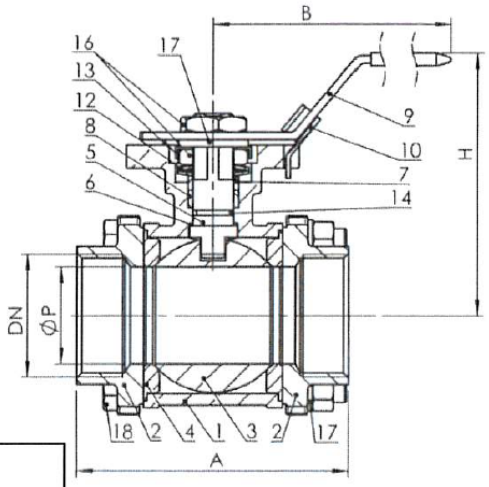
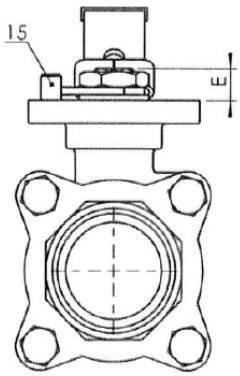
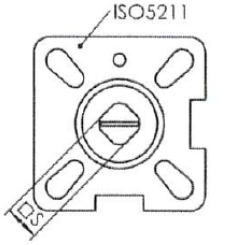
C 2 A i
Instrumentation et régulation des fluides

Ball valve in three parts in AISI 316 stainless steel - full bore

REF. 146PMISO





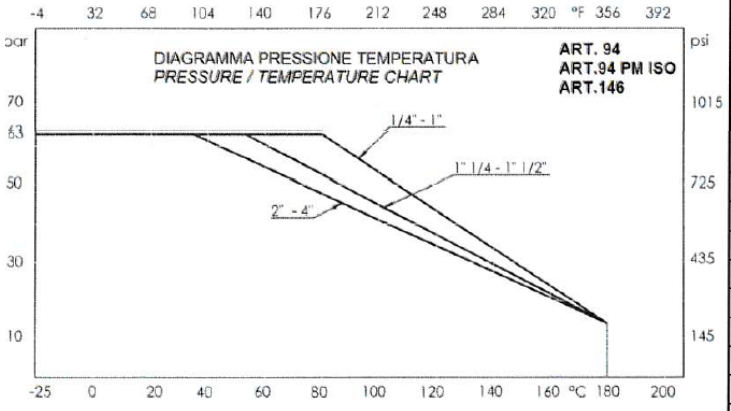


STANDARD VALVE FEATURES

-Working temperature* : MIN. -25°C / MAX. +180°C
-Max pressure : 63 bar from DN 1/4" to DN 4" (on request version PN70 available from DN 1/4" to DN 2"1/2)

-Threaded ends : BSP (ISO 228/1)
-Possibility of locking device
-Ready to be motorized ISO 5211

**THE MAXIMUM WORKING PRESSURE DECREASES WHILE INCREASES, PLEASE REFER TO "PRESSURE/TEMPERATURE" CHART*



Ref.	Parts	Material	Q.ty
1	Body	AISI 316	1
2	Liner	AISI 316	2
3	Ball	AISI 316	1
4	Ball seat	Reinforced P.T.F.E.	2
5	Stem	AISI 316	1
6	Sliding washer	P.T.F.E.	1
7	Ring	AISI 304	1
8	Steam seal	P.T.F.E.	1
9	Lever	AISI 304 plastifyed	1
10	Lock device	AISI 304	1
12	Belleville spring	AISI 301	1
13	Spacer	AISI 304	1
14	O-Ring	FKM (Viton)	1
15	Lever stop pin	AISI 304	1
16	Nut	AISI 304	1
17	Spring washer	AISI 301	4
18	Tie rod	AISI 304	4

DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
P	11	12.5	15	20	25	32	40	50	65	80	100
A	47	47	54	73	79	90	102	118	140	153	166
H	59	59	63	70	74	88	94	102	140	153	166
B	120	120	120	140	140	204	204	204	255	255	302
S	9	9	9	11	11	14	14	14	17	17	17
ISO 5211	F03	F03	F03	F04/F05	F04/F05	F05/F07	F05/F07	F05/F07	F07/F10	F07/F10	F07/F10
Torque (Nm*)	4	4	5	8	10	14	18	25	48	75	110
Kv (m^3/h)	5.6	6.8	9.6	17.9	30	49	68	126	226	355	667
Kg	0.41	0.40	0.45	0.86	0.86	1.88	2.78	3.56	7.2	12.1	19.9
PN	63										

IN ACCORDING TO DIRECTIVE PED 2014/68/EU

*: data effectued without pressure

N.B.: *in order to choose the right actuator, we recommend multiplyng the operating torque figure by a safety coefficient, k=1.5*

We don't assume the responsibility if you use products which are not consistent 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.

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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.

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