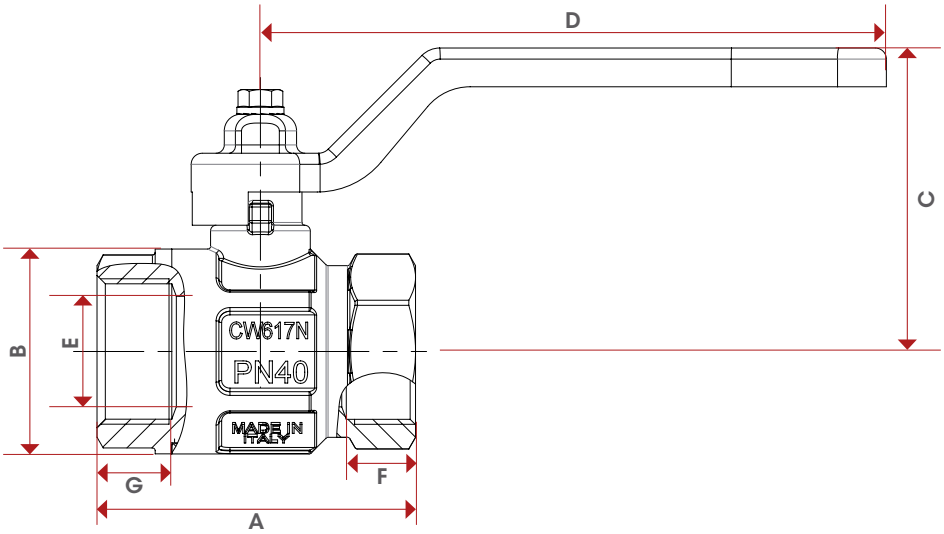
090



	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
DN	8	10	15	20	25	32	40	50	65	80	100
A	44,4	44,4	50,5	57,5	70	80,5	94,5	112,5	134,5	157	190
B	23,5	24	30,5	37	45,5	57	70	84	109	131	164
C	37	37	41	55	59	75	81	96	115	133	149
D	80	80	80	113	113	138	138	157,8	197	250	250
E	10	10	15	20	25	32	40	50	65	80	100
F	10	10	12	12,5	15	17	18,5	22	24	26	30
G	10	10	12,5	13,5	15	16,5	17,5	20,5	24	26	30
Kg/cm² bar	50	50	50	40	40	30	30	25	18	16	14
LBS - psi	725	725	725	580	580	435	435	362,5	261	232	203

INSTALLATION

Installation

The itap S.p.A.'s valves are bi-directional, in the sense that they manage the flow in both the directions. The valves are composed by a ball, two seal in PTFE material, one stem, two sailing rings (O-Rings), one handle and a couple of parts made of brass (body and end adopter) that contain them and that are assembled by means of threat and a sealed material to obtain their aim. To avoid that the sealing material gets brake and than the valve gets lose the connection between body and the end adopter, it's necessary to avoid to submit the two parts under the influence of a torque.
For their installation ones have to use the normal hydraulic practices, and in particular:
•Ones have to be sure that the two pipes are correctly allied,
•during the assembling ones have to apply the assembling tool at the end that is nearest to the pipe,
•the application of the sealing materials by the fitter (PTFE or hempen cloth) must be limited at the threat zone. An excess should interferes in the ball-gasket's closure zone, compromising the tightness.
•In the case that the fluid transported presents some impurities (dust, water too hard, etc.) ones have to remove these impurities by the means of a filter. Otherwise they could damage the seals.

Disassembly the installed valve

To remove the valve from the pipe line or anyhow before to unscrew the junctions linked to it:
•wear the clothing protective normally required to work with the fluid transported within the line.
•Take out the pressure inside the line and operate in this way:
•positioning the valve in opened position and than empty the line
•handle the valve to put down the residue pressure contained inside the space between the ball and the body before of remove it from the line,
•during the disassembly apply the screw tool at the end of the valve nearest the pipe

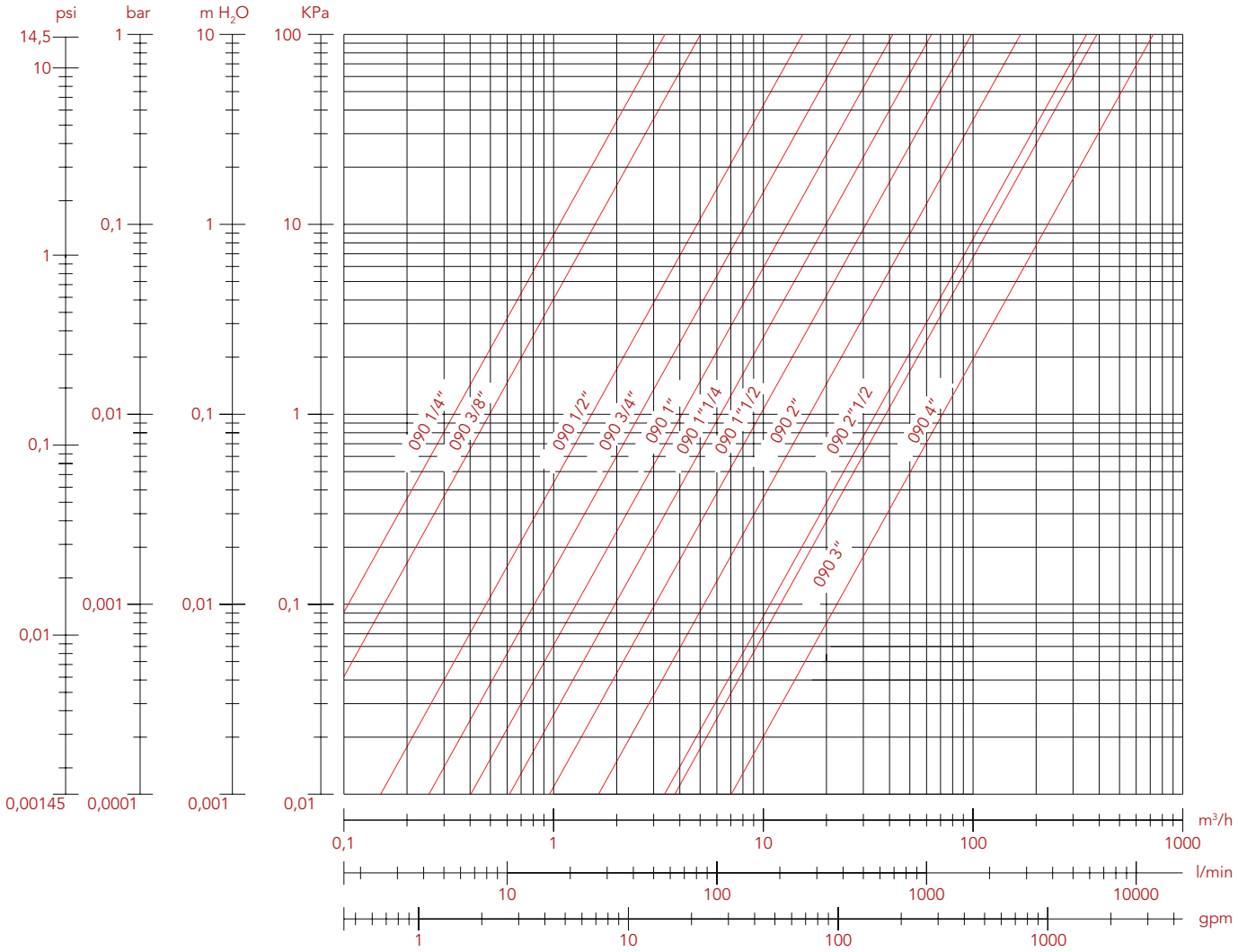
Maintenance

Verify the valves periodically, in function oh their application's field and in function of their work conditions, to be sure that the valves work correctly.

LOSS DIAGRAM

WITH WATER

Art: 090 - 091 - 092 - 093



MISURE	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
Ø	10	10	15	20	25	32	40	50	65	80	100
Kv	3,45	5,00	15,65	26,26	41,44	63,69	101	169	348	390	725

Subject to Change

DECLARATION OF CONFORMITY

(According to EN ISO/IEC 17050-1)

The ITAP S.p.A. manufacturer of valves, fittings, manifolds and accessories for thermo-sanitary plants, with head office in via Ruca 19/21 – 25065 Lumezzane S.S. (BS) Italy.

DECLARES

Under its sole responsibility that the IDEAL® full flow ball valves have been built according to industry standards and conform to their technical specifications, respecting the Company Quality System complies with UNI EN ISO 9001.

Lumezzane 19 November 2013

Industrial Manager.

ITAP S.p.A.
IL CONSIGLIERE DELEGATO
EZIO PATTI

DECLARATION OF CONFORMITY

ITAP S.p.A. via Ruca 19/21 - 25065 Lumezzane S.S. (BS) Italy
Tel. 030 89270 - Fax. 030 8921990 - www.itap.it - sales@itap.it