

TECHNICAL CATALOGUE

BALL VALVE STREAM[®],
FEMALE CONNECTIONS,
FULL PORT, NPT THREADS



ITAP SpA, founded in Lumezzane (Brescia) in 1972, is currently one of the leading production companies in Italy of valves, fittings and distribution manifolds for plumbing and heating systems. Thanks to fully automated production processes, with 72 tooling machines and 51 assembly lines, we are able to produce 200,000 pieces per day. Our innate pursuit for innovation and observance of technical regulations is supported by the company certification ISO 9001: 2008. The company has always considered its focus on quality as the main tool to obtain significant business results: today ITAP SpA is proud to offer products bearing the approval of numerous international certifying bodies.

BALL VALVE, FEMALE CONNECTIONS, FULL PORT, NPT THREADS: STREAM®



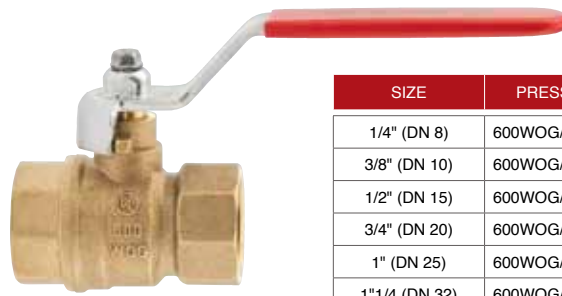


BALL VALVE
STREAM[®], FEMALE
CONNECTIONS, FULL
PORT, NPT THREADS

SUITABLE FOR DOMESTIC
WATER SERVICES, HEATING,
AIR-CONDITIONING PLANTS,
COMPRESSED AIR SYSTEMS
AND LPG GAS INSTALLATIONS.

145

BALL VALVE STREAM®,
FEMALE CONNECTIONS,
FULL PORT, NPT THREADS



SIZE	PRESSURE	CODE	PACKING
1/4" (DN 8)	600WOG/150WSP	145A014	12/192
3/8" (DN 10)	600WOG/150WSP	145A038	12/192
1/2" (DN 15)	600WOG/150WSP	145A012	15/120
3/4" (DN 20)	600WOG/150WSP	145A034	8/64
1" (DN 25)	600WOG/150WSP	145A100	6/48
1"1/4" (DN 32)	600WOG/150WSP	145A114	4/32
1"1/2" (DN 40)	600WOG/150WSP	145A112	4/24
2" (DN 50)	600WOG/150WSP	145A200	2/12

TECHNICAL SPECIFICATIONS

Suitable for residential and commercial plumbing, industrial applications, hot and cold drinkable water, oils and fluid hydrocarbons, compressed air systems. LPG gas installations.

Two-piece hot forged body in brass.

Blow out proof stem.

P.T.F.E. seats and double o-ring stem packing

(NBR and VITON®)

Full port design.

Pressure rating:

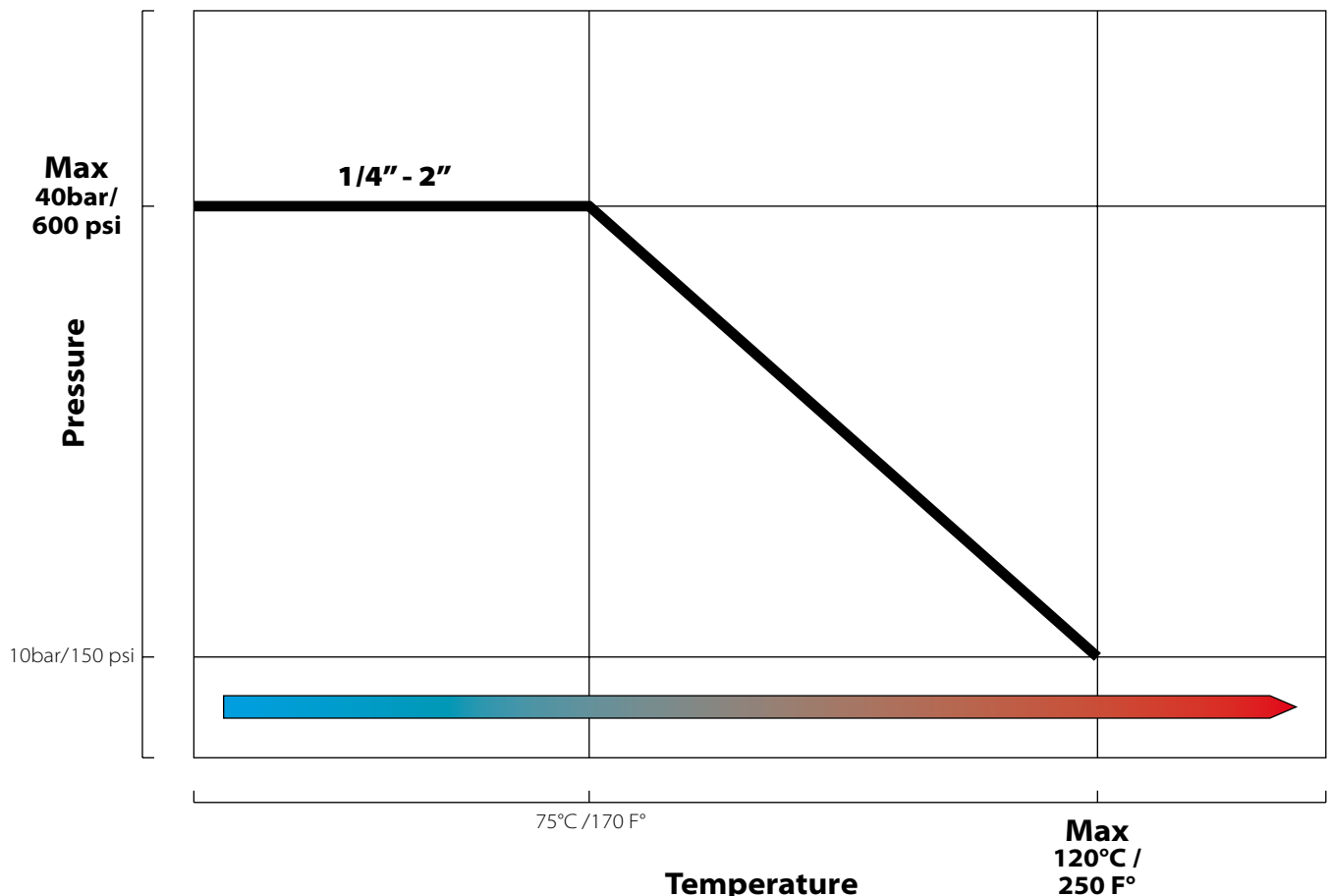
- 600 WOG, non-shock cold water, oils and general purpose
- 150 WSP at 250°F

Minimum and maximum working temperature: 10°F, 250°F

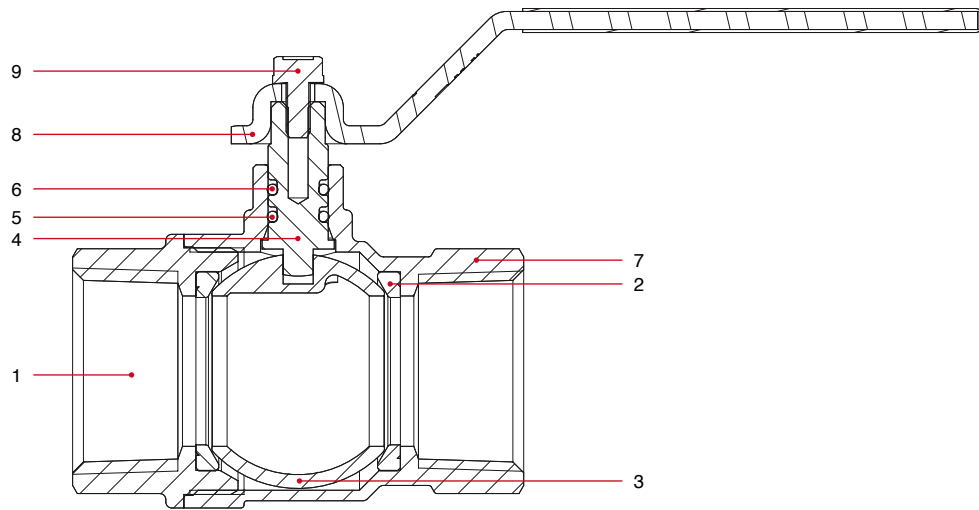
Connection: NPT threads according to ANSI B 1.20.1

- Not suitable for steam.

PRESSURE-TEMPERATURE CHART

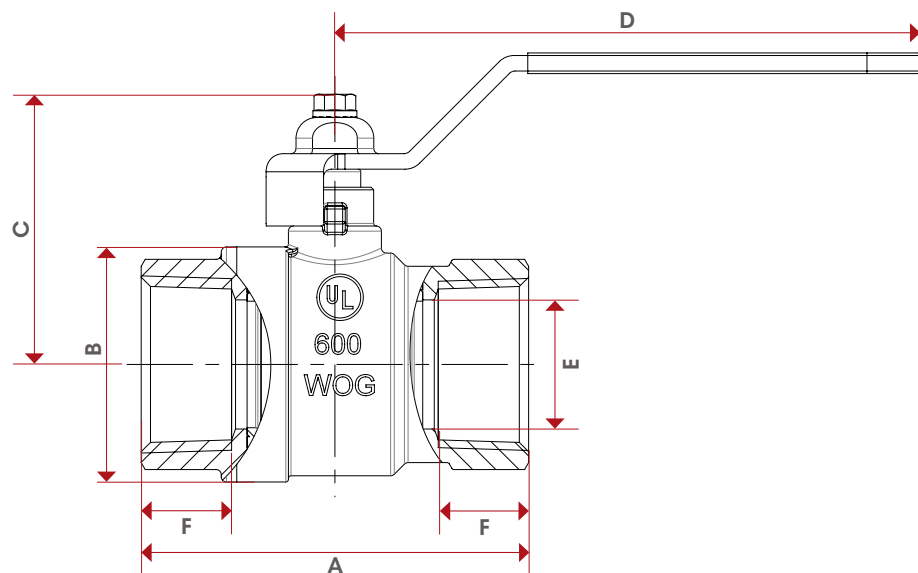


MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	End adapter	1	Brass CW617N
2	Seat	2	P.T.F.E.
3	Ball	1	Chrome-plated brass CW617N
4	Stem	1	Brass CW614N
5	O-ring	1	NBR
6	O-ring	1	VITON®
7	Body	1	Brass CW617N
8	Flat lever handle	1	Zinc-plated and plastic coated steel Fe.P04
9	Screw	1	Zinc-plated steel Fe CB4

OVERALL DIMENSIONS (inch)



inch	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
A	1,75	1,79	2,07	2,31	2,95	3,23	3,54	4,25
B	0,93	0,94	1,14	1,42	1,79	2,24	2,48	3,31
C	1,65	1,65	1,74	2,18	2,37	2,98	3,1	3,85
D	3,37	3,37	3,37	4,47	4,47	5,43	5,43	6,22
E	0,39	0,39	0,55	0,73	0,98	1,26	1,46	1,97
F	0,39	0,41	0,55	0,57	0,69	0,69	0,69	0,75
Kg/cm ² bar	41,4	41,4	41,4	41,4	41,4	41,4	41,4	41,4
LBS - psi	600	600	600	600	600	600	600	600

OVERALL DIMENSIONS (mm)

mm	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	44,4	45,4	52,6	58,6	75	82	90	108
B	23,5	24	29	36	45,5	57	63	84
C	41,8	41,8	44,3	55,3	60,3	75,8	78,8	97,8
D	85,5	85,5	85,5	113,5	113,5	138	138	158
E	10	10	14	18,5	25	32	37	50
F	10	10,5	14	14,5	17,5	17,5	17,5	19
Kg/cm ² bar	41,4	41,4	41,4	41,4	41,4	41,4	41,4	41,4
LBS - psi	600	600	600	600	600	600	600	600

MANUFACTURER INSTRUCTIONS

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 interferences 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:

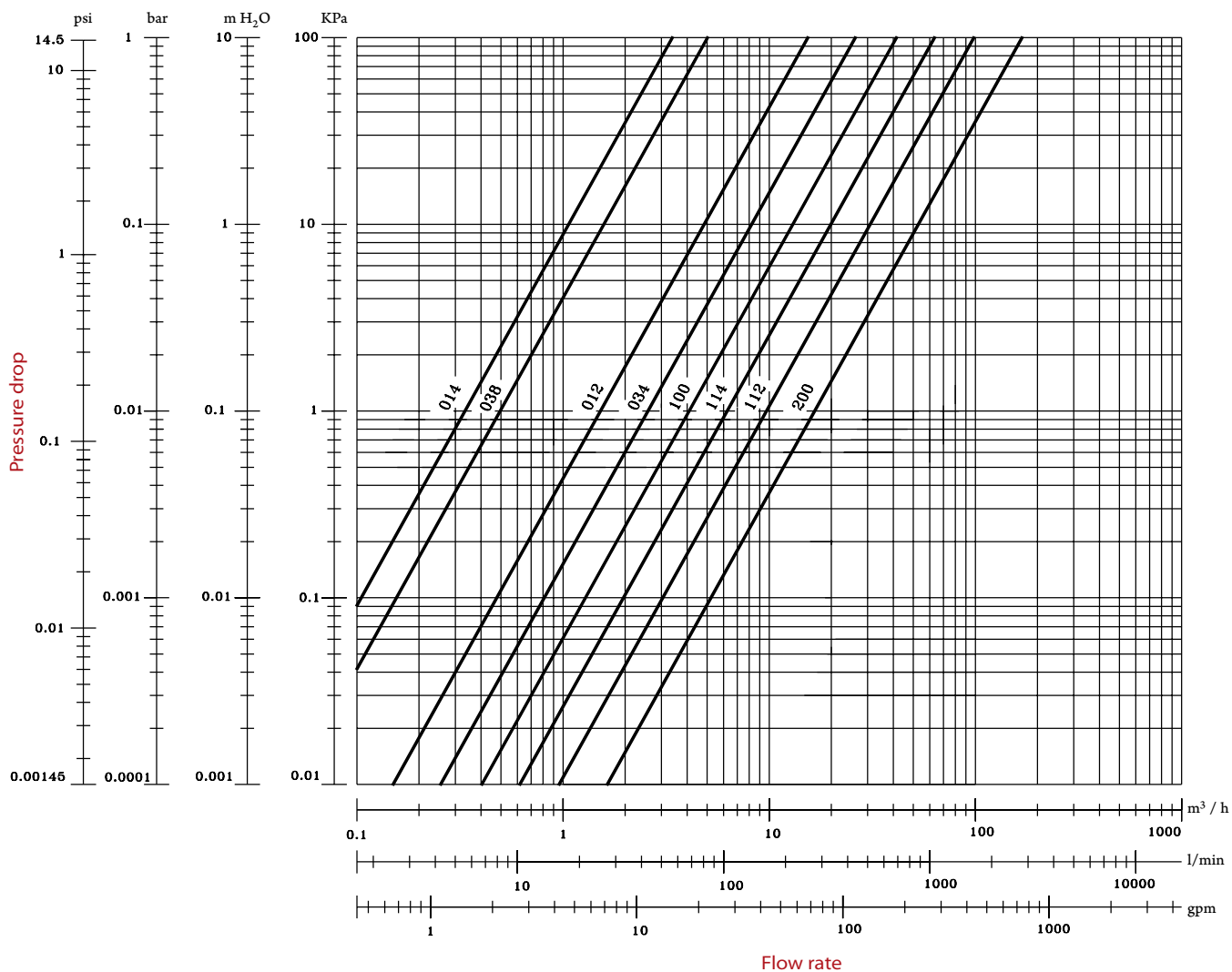
- wear the clothing protective normally required to work with the fluid transported within the line.
- Take out the pressure inside the line and operate in this way:
 - positioning the valve in opened position and than empty the line
 - handle the valve to put down the residue pressure contained inside 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.



FLOW RATE AND PRESSURE DROP CHART WITH WATER



SIZE	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Kv (m ³ /h)	3,45	5,00	15,65	26,26	41,44	63,69	101	169

084LK

LOCKING DEVICE FOR
LOCKABLE FLAT LEVER
HANDLE



SIZE	CODE	PACKING
1	084LK01	10/500
2	084LK02	10/500
3	084LK03	10/500

Available for art. 145, 1/4" through 1"

084PP

PIN FOR
LOCKING DEVICE

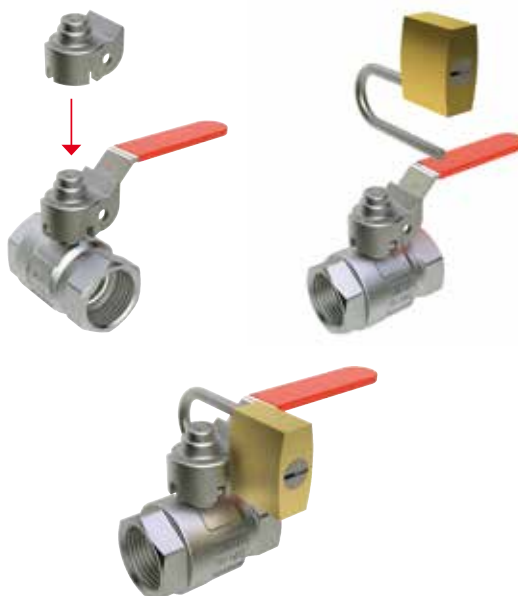


CODE	PACKING
084PP03	-

INSTALLATION LOCKING
DEVICE FOR LOCKABLE
FLAT LEVER HANDLE
ART. 084LK

The device has to be
used on valves with flat
lever handle only.

1. Place and lock the locking device either
on the open or on the shut-off valve.



2. Pin for locking device. It is suitable for
water and gas ball valves.



Sizes of the locking device art.084LK for each size of flat lever handle.

Art.	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
145	1	1	1	2	2	N/A	N/A	N/A





NOTES

Lined area for notes with horizontal dashed lines.



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