



# s.97

**3/4" - 2"**  
**ISO 228**  
**with built-in filter**

This ball valve with built-in vertical filter allows a large flow rate with a low pressure drop and supports a maximum pressure of 30 bar (PN).

This innovative product avoids the installation of two ball valves, before and after the filter. Quick and easy assembly, maintenance and cleaning.



## QUALITY

- Substitutes 3 different components (2 ball valves and one filter)
- Reduces leakage risks due to lower sealing points
- Cost saving due to reduced number of components
- Time saving at installation and maintenance
- Built-in vertical filter with cartridge structure in AISI304 (filtration degree: 500 microns / 35 mesh).
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Chrome plated brass ball for longer life
- Handle stop on body to avoid stress at stem
- Water glycol ready

## BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications
- Bottom plug for an easy filter maintenance

## STEM

- Blowout-proof unplated brass stem
- Double EPDM O-rings at the stem for maximum safety

## SEALING

- Pure PTFE seats

## THREADS

- ISO 228 parallel female by female threads

## FLOW

- Nominal port

## OPTIONS

- T-handle

## HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

## WORKING PRESSURE & TEMPERATURE

- Shell rating: 30 bar (450 PSI) non-shock cold working pressure for sizes 3/4" and 1", 20 bar (290 PSI) for sizes 1 1/4" to 2"
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve
- **WARNING:** with pressure differentials higher than 2 bar, cleaning operation is mandatory (refer to Installation, Maintenance and Operating Instructions provided with the valve)

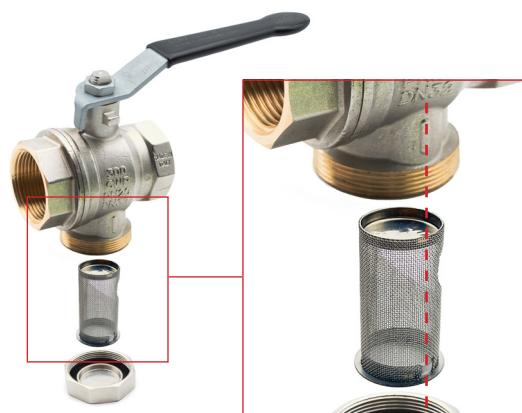
## PED DIRECTIVE

- According to 2014/68/UE, 1 1/4" and superior sizes cannot be used with dangerous fluids

## APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

**NOTE:** approvals apply to specific configurations/sizes only.

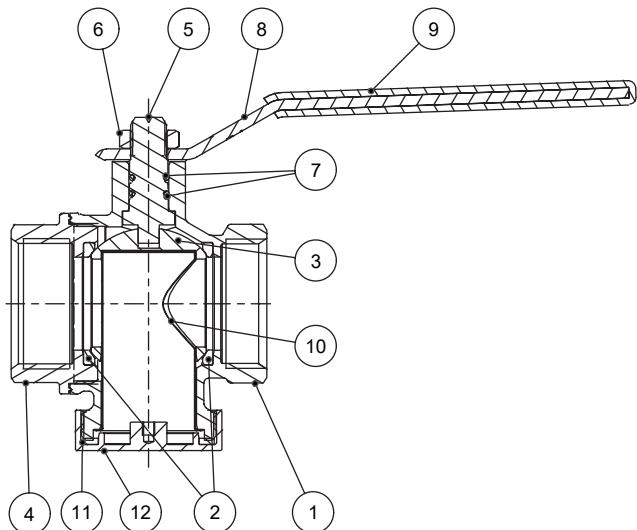


# s.97 XCES97 - 6012

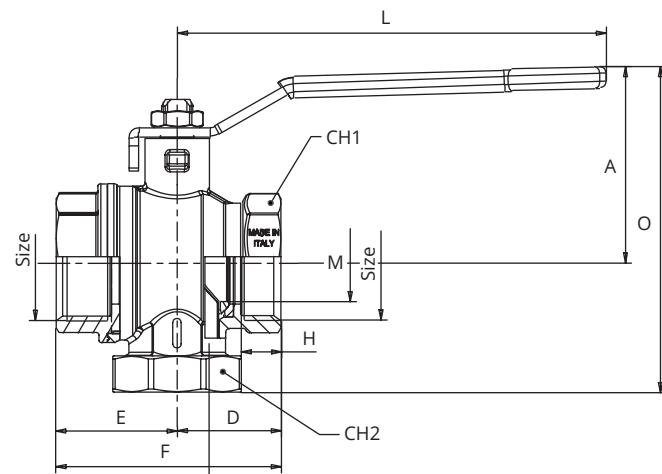
Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



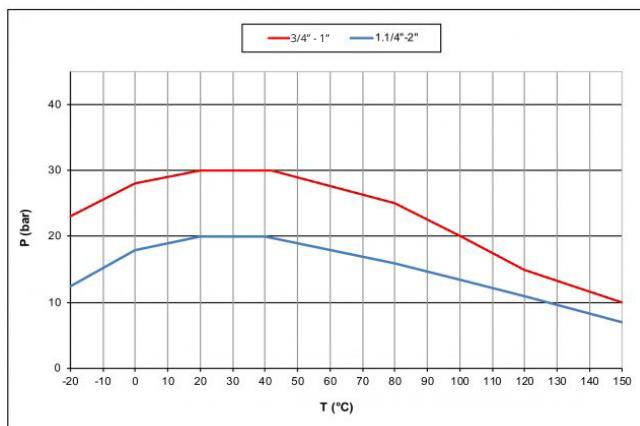
Part description		Q.ty	Material
1	Sand blasted nickel plated body (External nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Sand blasted nickel plated end cap (External nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-Ring design	1	CW617N
6	Geomet® plated steel nut	1	C4C
7	O-Ring peroxide cured Shore A 70±5	2	EPDM
8	Geomet® steel handle	1	Carbon steel
9	Black dipped coating (RAL 9005)		PVC
10	Sheet metal filter - 500 µm mesh	1	AISI 304
11	Gasket	1	EPDM
12	Nickel plated filter cap	1	CW617N



Code	S97E00	S97F00	S97G00	S97H00	S97I00
<b>Size (inch)</b>	3/4"	1"	1 1/4"	1 1/2"	2"
<b>A (mm)</b>	50	73	73	79	86
<b>D (mm)</b>	27	38	38.5	45	53
<b>E (mm)</b>	29.5	33.5	44.8	51	60.95
<b>F (mm)</b>	56.5	71.5	83.3	96	113.95
<b>H (mm)</b>	12	14	15	17	19
<b>L (mm)</b>	120	120	158	158	158
<b>M (mm)</b>	16	20	28.5	37	48
<b>O (mm)</b>	85	94	120	133.5	151
<b>CH1 (mm)</b>	31	38	48	54	65
<b>CH2 (mm)</b>	30	38	48	55	68
<b>PN (bar)</b>	30	30	20	20	20
<b>Kv (m³/h)</b>	TBD	TBD	18	18	32



## PRESSURE-TEMPERATURE CHART



## PRESSURE DROP CHART

