



s.190M

3/4" - 2" ISO 228, with built-in filter
and magnet



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 1.4301 / AISI304 + Nylon (filtration degree: 500 microns / 35 mesh).
- Final test conforming with UNI EN 12266-1 points A3 / A4 (for 1 1/2" and 2" sizes: acc. to directive 2014/68/UE)
- 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

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
- Two O-rings at the stem (FKM + NBR) for maximum safety

Sealing

- Pure PTFE seats

Threads

- ISO 228/1 parallel female by female threads

Flow

- Nominal port

Handle

- Zinc plated steel handle with plastic cover
- **WARNING:** do not exceed reasonable temperature and/or electrical load

Working pressure & temperature

- 30 bar (450 PSI) non-shock cold working pressure for sizes 3/4" to 1", 20 bar (290 PSI) for sizes 1 1/4" to 2"
- -20°C to +100°C (-4°F to +212°F)
- Valve conforming with directive 2014/68/EU
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

Options

- T-handle for 1/2" to 1" sizes

PED directive

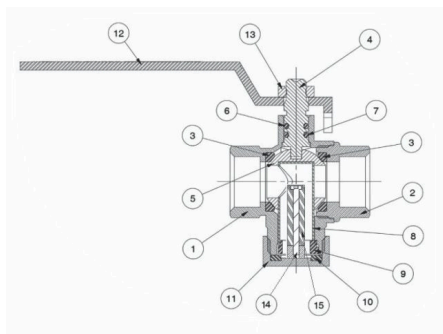
- According to 2014/68/UE, 1 1/4" and superior sizes cannot be used with dangerous fluids

Approved by or in compliance with

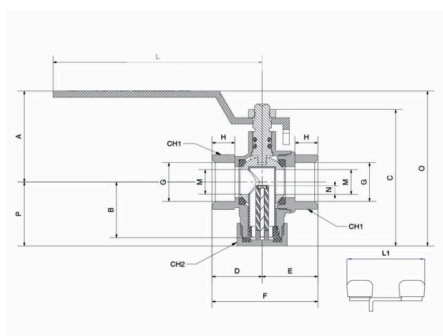
- Water Regulations Advisory Scheme (United Kingdom)

NOTE: approvals apply to specific configurations/sizes only.





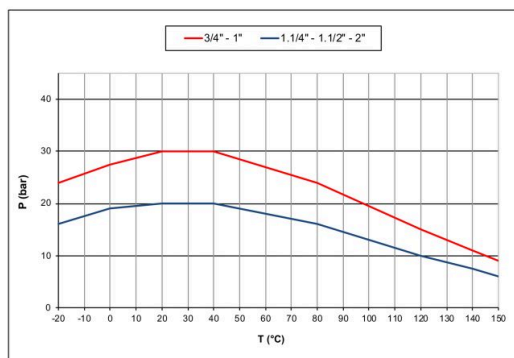
	PART DESCRIPTION	Q.TY	MATERIAL
1	Nickel plated body	1	CW617N
2	End connection	1	CW617N
3	Seals	2	PTFE
4	Stem	1	CW614N
5	Chrome plated ball	1	CW617N
6	O-Ring	1	NBR
7	O-Ring	1	FKM
8	Filter	1	1.4301 / AISI304 + Nylon
9	Filter	1	1.4301 / AISI304 + Nylon
10	Flat seal	1	NBR
11	Plug	1	CW614N
12	Handle	1	Zinc plated steel, plastic cover
13	Nut	1	Zinc plated steel
14	Screw	1	Stainles steel
15	Magnet	1	Neodymium (12,000gauss) NdFeB



COD.	190E00M	190F00M	190G00M	190H00M	190I00M
G (Threads, including on plug)	3/4"	1"	1 1/4"	1 1/2"	2"
A	47,4	50,8	74	80	88,5
B	30,9	34,5	46,5	52,5	63,5
C	73,5	80,5	106	118	143
D	29	34,5	40	45,5	54
E	32,3	35,6	45	52	63
F	61,3	70,1	85	97,5	117
H	13	15	17	17	20
L	100	100	158	158	158
L1	68	68	-	-	-
DN M	16	20	28	36	46
N	8	5,5	13	11	13
O	82,5	89,5	125,5	137,5	157,0
P	35,1	38,7	51,5	57,5	68,5
CH1 OCT.	31	38	48	54	66
CH2 HEX.	30	38	46	55	65
PN Max bar	30	30	20	20	20

Suitable for dangerous fluids, in compliance with **DIRECTIVE 2014/68/EU**
Group 1 fluids

Pressure - temperature chart



Pressure drop chart

