WATER

FILTERBALL

On-off ball valve with
interchangeable **cylindrical strainer**

FRATELLI PETTINAROLI S.p.A.
CLIMATE SYSTEMS TECHNOLOGY

1 Cap with double seat (metallic and rubber O-Ring)

2 Bronze clip holding the strainer

3 Stainless Steel strainer AISI 304

TECHNICAL SPECIFICATIONS

Ballvalve with **integral strainer** easy to inspect and clean made of corrosion resistant brass alloy CW602N, threaded ends.

Stem with **triple safety** (2-O-Rings, PTFE ring), fitted from inside to prevent tampering extraction or bursting.

Double tightening in the joint between body and end-connection.

Stuffing box **movable**.

Solid spheres are made using diamond tools and chromium plated to the required thickness.

WHAT IS FILTERBALL ?

The **Pettinaroli FILTERBALL** valve is an on-off ball valve containing an **interchangeable cylindrical strainer** which is easy to inspect and remove for normal maintenance operations.

A single valve therefore has **two important functions**:

- perfect **sealing** of the ball valves
- careful **filtering** of the fluid, so that their great reliability protects all the components in the plant.

Compared with the traditional use of two components, apart from the obvious **advatanges in terms of cost**, installation and space, the FILTERBALL® valve means **much smaller load losses**, which virtually coincide with those of the filter only.

FM

Type	Mesh	Filtering capacity	Casing
FM28	28	Ø 700 µm (0.7 mm)	simple
FM40	40	Ø 300 µm (0.3 mm)	simple
FM60	60	Ø 230 µm (0.23 mm)	double
FM80	80	Ø 180 µm (0.18 mm)	double
FM100	100	Ø 150 µm (0.15 mm)	double

Stainless steel strainer for Art.:
51F - 52F - 56F/2

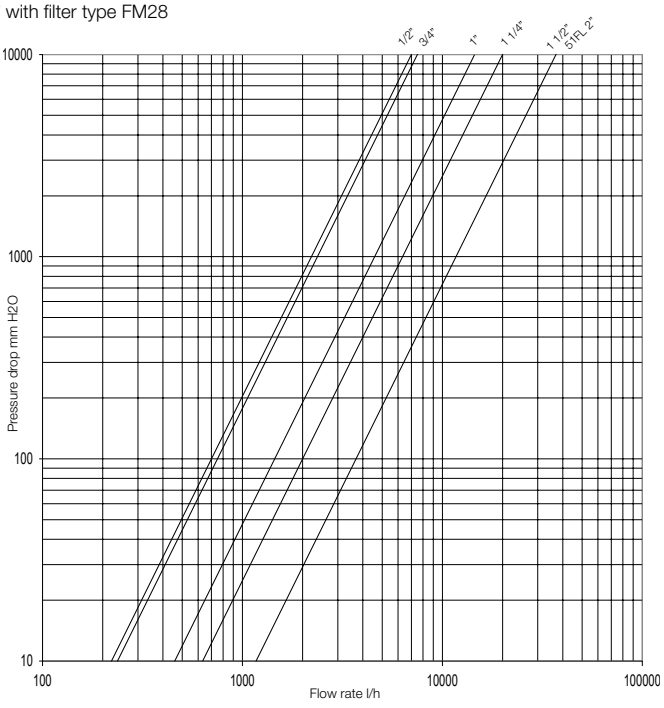
NOTE: The **FILTERBALL** valve compared with a Y standard strainer allows **more than a double flow**, assuming same load losses.

Example: FILTERBALL 1": KV (1 bar) = 14,5 m³/h
Y STRAINER 1": KV (1 bar) = 7,0 m³/h

These features make it suitable for all uses, in particular **hygiene and sanitary uses**, even when normal water purification additives are present.

PRESSURE DROP DIAGRAM

* with filter type FM28



Working pressure and temperature
16 bar - 100°C (250 psi - 210°F - non shock)
10 bar - 150°C (150 psi - 300°F - non shock)

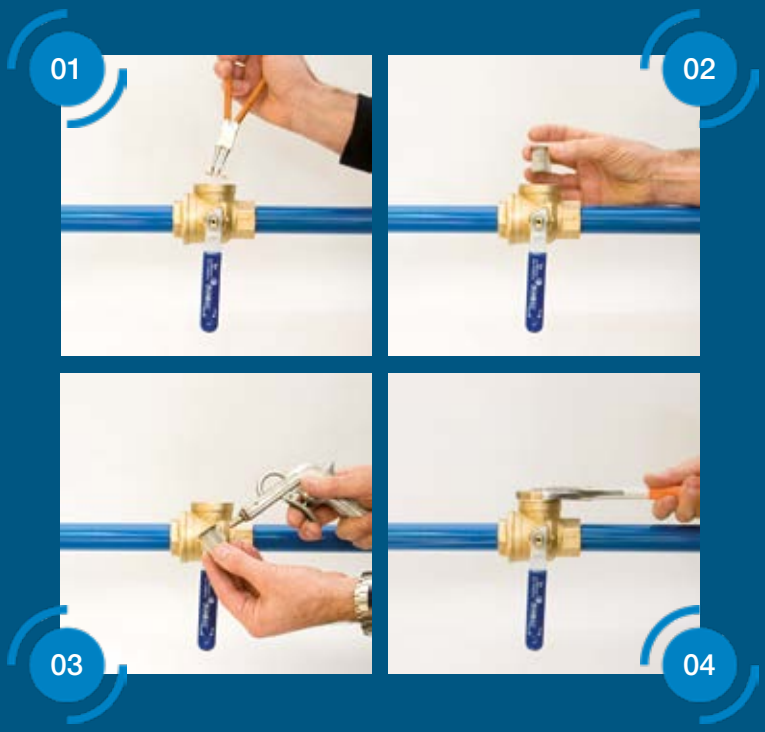
EASY INSPECTION AND CLEANING

FILTERBALL 51F and 52F series allow the strainer to be cleaned with a few simple steps (figure on the side):

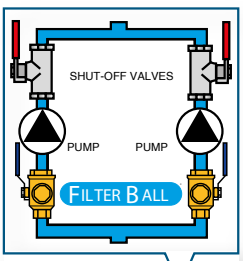
1- Unscrew the cap and remove the strainer block ring
2- Remove the strainer
3- Remove the collected impurities
4- Restore the components in their seat

FILTERBALL 56F/2 series adds to the range a particular version with a "back flush" cleaning system.

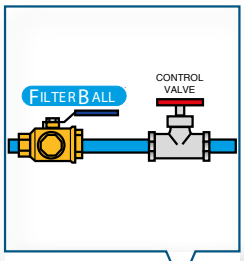
- Starting from the closed valve position, it is operated the frame of further 22° clockwise obtaining one deviation of the water flow that will clean the strainer through the appropriate drainage outlet.



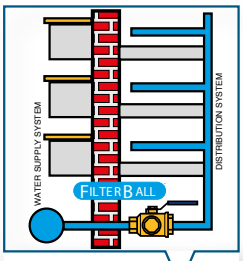
MAIN USES



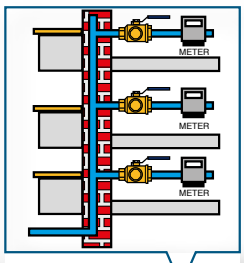
1. Before the circulation pumps in heating, air conditioning and autoclave systems



2. Before the control valves to protect their operation

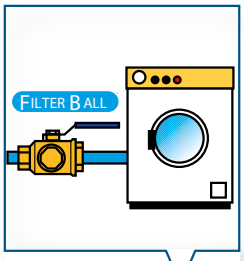


3. On the inlet pipes of the water supply system in buildings

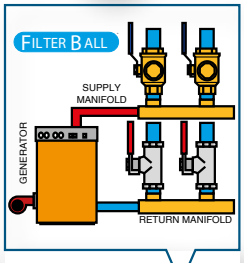


4. On the inlet pipes of the water supply system of each apartment, to protect the meter and taps (to avoid abrasions and malfunctions due to sand and debris)

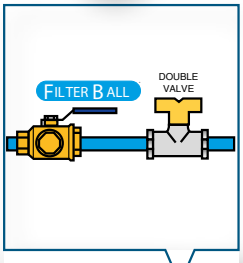
1 2 3 4



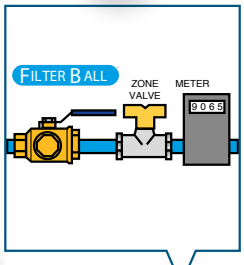
5. On the power supply pipes of household appliances



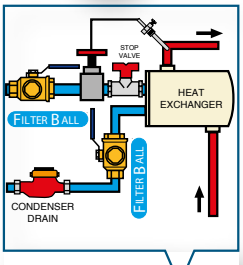
6. At the exit of the boiler or on the distribution pipes, for better cleaning of the entire system



7. Before the check valves, to protect their sealing characteristics



8. At the entrance of each zone, in systems equipped with a meter, to protect its mechanisms



9. Before the heat exchanger and the condenser to protect their delicate mechanisms from any particles suspended in water.

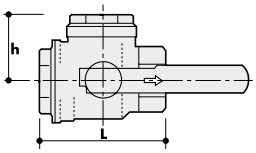
5 6 7 8 9

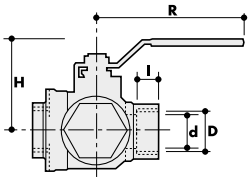
AVAILABLE PRODUCTS

W ACS

51F

D”	1/2”	3/4”	1”	1 1/4”	1 1/2”	2”(FL)
d	18	20	28.5	35.5	45	45
H	50	50	66	82	89	89,5
h	37	37	51	60	74	76.5
l	15	16	21.5	23.5	23.5	26
L	69	69	95	111	127	154
R	95	95	120	150	150	150
PN	25	25	25	16	16	16
Kg.	0.44	0.45	1.16	1.85	2.80	3.26

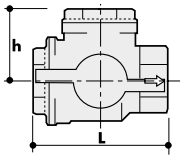


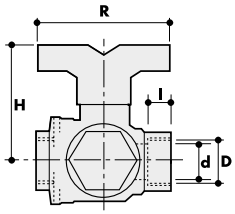


W ACS

52F

D”	1/2”	3/4”	1”
d	18	20	28.5
H	50	50	66
h	37	37	51
l	15	16	21.5
L	69	69	95
R	95	95	120
PN	25	25	25
Kg.	0.44	0.45	1.16

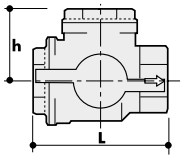


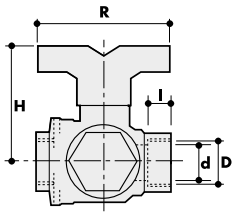


W ACS

52FR0S

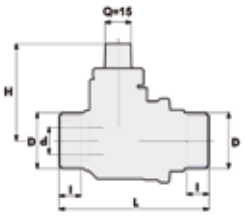
D”	1/2”	3/4”	1”
d	18	20	28.5
H	50	50	66
h	37	37	51
l	15	16	21.5
L	69	69	95
R	95	95	120
PN	25	25	25
Kg.	0.44	0.45	1.16

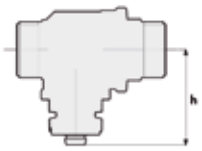




56F/2

D”	1”
d	22.5
H	58
h	56
l	13
L	89
R	16
PN	0.73
Kg.	0.85





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