

# Filterball

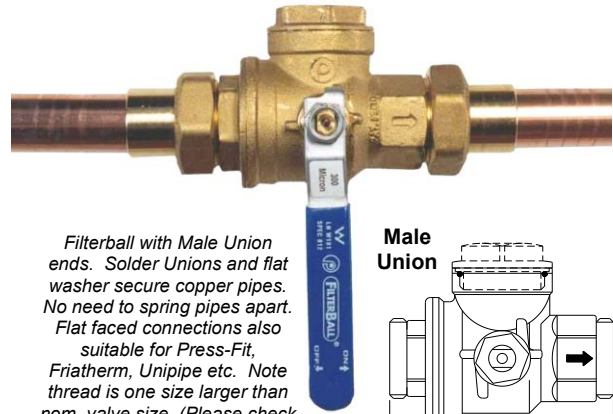
## Model FB – Combined Isolating Valve & Strainer - Data Sheet

### Description

Quarter turn Isolating Ball Valve with removable Strainer inside the ball. In the closed position, both upstream and downstream connections are isolated and the Strainer can be inspected and removed through the side port. This single unit replaces the traditional Y Strainer and two Isolating Valves. The single unit reduces installation time, joints, space and cost. Furthermore the headloss is less than a comparable Y Strainer due to the straight-through design.

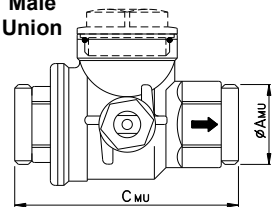
### Connection Pipes

Copper – Compression fittings or male flat-faced (use solder unions for copper tube)  
Steel – Female BSPP  
Plastic – Fittings available for most plastic systems.



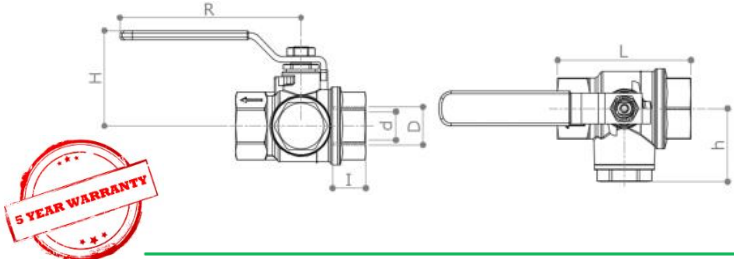
Filterball with Male Union ends. Solder Unions and flat washer secure copper pipes. No need to spring pipes apart. Flat faced connections also suitable for Press-Fit, Friatherm, Unipipe etc. Note thread is one size larger than nom. valve size. (Please check lead-time on this version).

Male Union

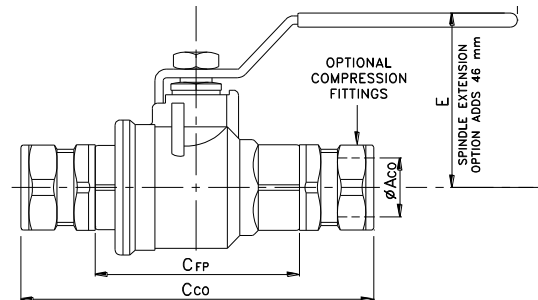


| Specification         |          |                               |
|-----------------------|----------|-------------------------------|
| Pressure / Temp       | bar / °C | 16 max / 100<br>10 max / 150  |
| Differential Pressure | bar      | 16                            |
| Materials             |          |                               |
| Body, Cap Nut         |          | CZ132 DZR Brass               |
| Ball                  |          | Chrome Plated CZ132 DZR Brass |
| Seat                  |          | Virgin P.T.F.E                |
| Strainer Basket       |          | AISI 304 Stainless Steel      |
| Circlip               |          | Bronze Cu Sn 7 UNI 2527-74 H5 |

Female BSPP



Compression



### Strainers

The standard Strainer coarseness is 700 µm (0.7 mm). Finer Strainers have a higher headloss and are more likely to block prematurely. The valve should be not be used as a control valve (i.e. partially open) since debris can bypass the Strainer in this position. Always replace the Circlip after cleaning Strainer.

### Options

- Spindle extensions, raising lever by 46 mm to accommodate insulation. Existing lever is re-used.
- Tee and geared handles
- Lift & Lock tamperproof spindle cap.

### Applications

Filterball valves may be used for potable water, heating, cooling, and hot water services, compressed air, gas and oil.

### Headloss

The table below shows the Kv headloss values for a fully open valve with clean strainer.

| Size DN | Thread BSPP Female | Kv   |
|---------|--------------------|------|
| 15      | 1/2"               | 6.5  |
| 20      | 3/4"               | 7.5  |
| 25      | 1"                 | 14.5 |
| 32      | 1 1/4"             | 20   |
| 40      | 1 1/2"             | 31   |
| 50      | 2"                 | 60   |

Kv is the flow required in m<sup>3</sup>/hr to produce a differential pressure drop across the valve of 1 bar.



### Sizes and Dimensions

| DN | D      | d    | H    | h    | l    | L   | R   | Kg   | A <sub>MU</sub> | C <sub>MU</sub> | A <sub>CO</sub> | C <sub>FP</sub> | C <sub>CO</sub> | E   |
|----|--------|------|------|------|------|-----|-----|------|-----------------|-----------------|-----------------|-----------------|-----------------|-----|
| 15 | 1/2"   | 18   | 54   | 37   | 15   | 69  | 95  | 0.44 | 3/4"            | 91              | 15              | 69              | 133             | 61  |
| 20 | 3/4"   | 20   | 54   | 37   | 16   | 69  | 95  | 0.45 | 1"              | 91              | 22              | 69              | 138             | 61  |
| 25 | 1"     | 28.5 | 65   | 46.5 | 19   | 95  | 120 | 0.92 | 1 1/4"          | 115             | 28              | 95              | 158             | 66  |
| 32 | 1 1/4" | 35.5 | 82   | 53.5 | 22   | 111 | 150 | 1.6  | 1 1/2"          | 135             | 35              | 111             | 185             | 82  |
| 40 | 1 1/2" | 45   | 89   | 74   | 23.5 | 127 | 150 | 2.8  | 2"              | 155             | 42              | 127             | 210             | 89  |
| 50 | 2"     | 45   | 89.5 | 76.5 | 26   | 154 | 150 | 3.3  | N/A             | 190             | 54              | 154             | 255             | 120 |

### Codes and Descriptions

| Size | Code      | Description                     |
|------|-----------|---------------------------------|
| DN15 | FB15FP700 | FilterBall 700 µm Strainer FBSP |
| DN20 | FB20FP700 | FilterBall 700 µm Strainer FBSP |
| DN25 | FB25FP700 | FilterBall 700 µm Strainer FBSP |
| DN32 | FB32FP700 | FilterBall 700 µm Strainer FBSP |
| DN40 | FB40FP700 | FilterBall 700 µm Strainer FBSP |
| DN50 | FB50FP700 | FilterBall 700 µm Strainer FBSP |

Contact Arrow Valves for Factory Fitted Pipe Connectors

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Arrow Valves Ltd reserve the right to change specifications, design and materials at any time without notice.  
All unit-less dimensions in mm.

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