



# MVB

## Standard multi-cartridge filter housings



**MVB** are typical general purpose multi-cartridge filter housings, the largest ones can handle flow-rates to 45 m3/h.

Standard material is 316 stainless steel to offer a wide chemical compatibility and easy cleaning.

Internals are designed to hold the most common cartridge configurations:

- **A1M** – double open ended with polypropylene internals
- **A1S** – double open ended with stainless-steel internals
- **P8** – 2-222 standard o rings with spear
- **C8** – 2-222 standard o rings with flat end
- **P7** – 2-226 standard o rings with bayonet and spear

All **MVB** filter housings can accept every kind of standard elements; melt-blown cartridges, string-wound elements, pleated disposable and metallic cleanable.

By changing the bell, different cartridge length can fit the same housing, this enhance the flexibility of the filter offering the possibility of future increase of the flow-rate just making few easy interventions.

Standard IN-OUT connections are BSP threaded male or female. Many adaptors are available to fit different standards such as DIN 11851, Tri Clover etc.

All MVB's can also be provided with standard flanges.

Standard finish is pickling plus outer mechanical polishing, electro-polishing is also available on application.

All filters are provided with stainless steel adjustable legs as standard.

Please find ordering information in the housing code selection table below, further details and outline drawings are available in the back page.

### Main applications

- Water in all industrial applications
- Process chemicals when compatible with stainless steel

### HOUSING CODE SELECTION

| Standard multi-cartridge filter housings | N° of cartridges | Body material    | Cartridge length   | IN-OUT connections  | IN-OUT Connection size   | Cartridge configuration   | Surface finish   |
|--|------------------|------------------|--|---|--|---|--|
| series = <b>MVB</b>                      | 3<br>6<br>7      | 316ss = <b>S</b> | 10" = <b>1</b><br>20" = <b>2</b><br>30" = <b>3</b><br>40" = <b>4</b> | BSP Male = <b>G</b><br>BSP Female = <b>E</b><br>DIN11851 = <b>D</b><br>BSP Flange = <b>F</b><br>ANSI Flange = <b>A</b><br>Tri-Clover = <b>T</b> | 1½" = <b>40</b><br>2" = <b>50</b><br>2½" = <b>65</b><br>3" = <b>80</b> | DOE polip. = <b>A1M</b><br>DOE ss = <b>A1S</b><br>222 FIN = <b>P8</b><br>222 FLT = <b>C8</b><br>226 FIN = <b>P7</b> | Pickling = <b>J</b><br><br>Mechanical polishing = <b>L</b> |
| <b>MVB</b>                               | <b>7</b>         | <b>S</b>         | <b>3</b>   | <b>E</b>  | <b>50</b>  | <b>P8</b>   | <b>L</b>   |

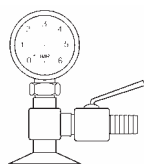
# Standard 3,6, 7-round filter housings **MVB** series

Sound Engineering Practice  
directive 97/23/CE application criteria

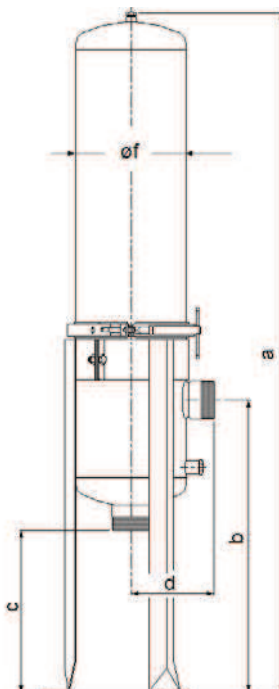
| Filter type               | N° of filter cartridges | Dimensions mm |         |         |     |       |     | Standard IN-OUT Connections  | Internal Volume Litres | liquids          |                    |
|---------------------------|-------------------------|---------------|---------|---------|-----|-------|-----|--|------------------------|------------------|--------------------|
|                           |                         | a             | b       | c       | d   | øf    | r   |  |                        | Group 1 PSxV=200 | Group 2 PSxV=10000 |
| MVB 3 S1 ...              | 3 x 10"                 | 832-971       | 586-725 | 362-501 | 130 | 168,3 | 125 | available:<br>1½" BSP male<br>DIN DN 40<br>TC 2"                   | 8,48                   | 8 bar            | 8 bar              |
| MVB 3 S2 ...              | 3 x 20"                 | 1098-1237     | 586-725 | 362-501 | 130 | 168,3 |     |  | 14,12                  | 8 bar            | 8 bar              |
| MVB 3 S3 ...              | 3 x 30"                 | 1352-1491     | 586-725 | 362-501 | 130 | 168,3 |     |  | 19,51                  | 8 bar            | 8 bar              |
| MVB 3 S4 ...              | 3 x 40"                 | 1606-1745     | 586-725 | 362-501 | 130 | 168,3 |     |  | 24,89                  | 8 bar            | 8 bar              |
| <sup>1</sup> MVB 6 S1 ... | 6 x 10"                 | 841-1001      | 580-740 | 322-482 | 165 | 219,1 | 142 | available:<br>2" BSP female<br>2½" BSP male<br>DIN DN 65<br>TC 2½" | 15,94                  | 8 bar            | 8 bar              |
| <sup>1</sup> MVB 6 S2 ... | 6 x 20"                 | 1094-1254     | 580-740 | 322-482 | 165 | 219,1 |     |  | 25,12                  | 7.9 bar          | 8 bar              |
| <sup>1</sup> MVB 6 S3 ... | 6 x 30"                 | 1347-1507     | 580-740 | 322-482 | 165 | 219,1 |     |  | 34,31                  | 5.8 bar          | 8 bar              |
| <sup>1</sup> MVB 6 S4 ... | 6 x 40"                 | 1602-1762     | 580-740 | 322-482 | 165 | 219,1 |     |  | 43,57                  | 4.6 bar          | 8 bar              |
| MVB 7 S1 ...              | 7 x 10"                 | 841-1001      | 580-740 | 322-482 | 165 | 219,1 | 142 | available:<br>2" BSP female<br>2½" BSP male<br>DIN DN 65<br>TC 2½" | 15,94                  | 8 bar            | 8 bar              |
| MVB 7 S2 ...              | 7 x 20"                 | 1094-1254     | 580-740 | 322-482 | 165 | 219,1 |     |  | 25,12                  | 7.9 bar          | 8 bar              |
| MVB 7 S3 ...              | 7 x 30"                 | 1347-1507     | 580-740 | 322-482 | 165 | 219,1 |     |  | 34,31                  | 5.8 bar          | 8 bar              |
| MVB 7 S4 ...              | 7 x 40"                 | 1602-1762     | 580-740 | 322-482 | 165 | 219,1 |     |  | 43,57                  | 4.6 bar          | 8 bar              |

<sup>1</sup>) Standard 6-round version is only suitable for P7 cartridge style

## OPTIONAL FITTINGS FOR MVB SERIES



- Pressure gauge/vent assembly
- Flanged connections according to various international standards



**Max operating pressure.** According to the European Directive 97/23/CE "PED", when dangerous liquids are involved (group 1), it is essential to observe the limits of the "Sound Engineering Practice".

In this case the product PSxV must not exceed the value of 200; our MVB housings do not require the CE stamp when the pressure of the liquid does not exceed the limits indicated in tables.

When other liquids, such as water, are involved (group 2) the product PSxV must not exceed the value of 10000 in this case the max operating pressure is always 8 bar.

**Max operating temperature:** It is in function of the gasket – The maximum temperature is also in relation with the "vapour tension" which is typical of each liquid. The vapour tension of the liquid never have to exceed 0.5 bar at working temperature otherwise it will be considered as a gas and different design criteria must be applied.

In accordance with the directive each housing is provided with Instruction Handbook and Filterflo declaration of compliance.

All data correct at time of going to press.  
Filterflo reserves the right to modify data  
without prior notice



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