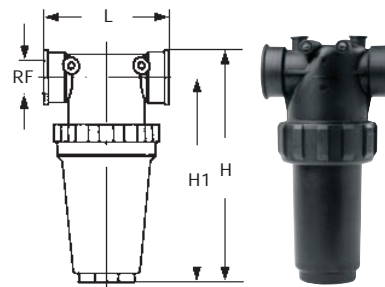


COMPLEMENTARY PRODUCTS

PLASTIC BODY FILTERS

VEH

The line filters of the VEH series, are a rational and economical solution for such applications where severe operating conditions are not to be expected. Entirely made out of polypropylene, with two brass bushings (1/4" female thread), for wall mounting. The threaded coupling between the bowl and the head allows for quick cleaning or replacement of the filter cartridge without the need of any tool.



Max operation temperature LT 80° C
 Max steam pressure LP 15 bar

Materials Body D21 Moulded Polypropylene
 Seal E0 EPDM

| Code | RF inch BSPP | H mm | H1 mm | L mm | Q lpm | Cartridge | C | M mesh |
|--------------|--------------------|---------|----------|---------|----------|--------------|-----|-----------|
| VEH 0050 D21 | 1/2 | 136 | 118 | 99 | 140 | XVE H050 DA2 | B | 32 |
| VEH 0051 D21 | | | | | | U | 50 | |
| VEH 0052 D21 | | | | | | R | 100 | |
| VEH 0075 D21 | 3/4 | 136 | 118 | 99 | 140 | XVE H050 DA2 | B | 32 |
| VEH 0076 D21 | | | | | | U | 50 | |
| VEH 0077 D21 | | | | | | R | 100 | |
| VEH 0100 D21 | 1 | 165 | 143 | 107 | 140 | XVE H050 DA2 | B | 32 |
| VEH 0101 D21 | | | | | | U | 50 | |
| VEH 0102 D21 | | | | | | R | 100 | |
| VEH 0125 D21 | 1 1/4 | 279 | 239 | 146 | 250 | XVE H060 DA2 | B | 32 |
| VEH 0126 D21 | | | | | | U | 50 | |
| VEH 0127 D21 | | | | | | R | 100 | |
| VEH 0150 D21 | 1 1/2 | 279 | 239 | 146 | 250 | XVE H060 DA2 | B | 32 |
| VEH 0151 D21 | | | | | | U | 50 | |
| VEH 0152 D21 | | | | | | R | 100 | |

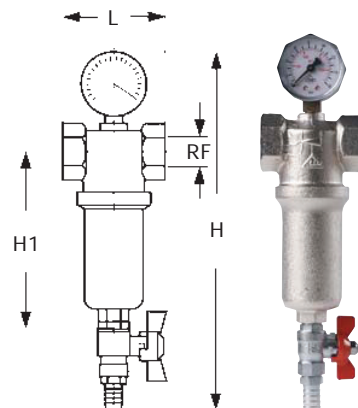
Different cartridge colors are used to identify available filter gauge, the last column on the right shows mesh dimensions according to American mesh size. Our cartridge code includes the mesh size, which does not need to be specified.

Color code: B = White
 U = Blue
 R = Red

BRASS BODY FILTERS

VEL

VEL type filters are the ideal solution for small systems where ease of cleaning is required. When necessary, simply open the valve at the bottom of the filter and the dirt contained inside the cartridge is easily expelled. The disassembly of the filter bowl is to be foreseen only to wash the cartridge loose of larger dirt particles. A manometer on the filter head shows the outlet pressure, hence pressure drop through the filter. The filter cartridge is only available with a 150 mesh net.



| Code | RF inch BSPP | H mm | H1 mm | L mm | Q lpm | Cartridge | M mesh |
|-------------|--------------------|---------|----------|---------|----------|-------------|-----------|
| VEL 0039 T8 | 3/8 | 285 | 133 | 50 | 14 | XVE L171 B2 | 150 |
| VEL 0051 T8 | 1/2 | 288 | 136 | 56 | 25 | | |
| VEL 0076 T8 | 3/4 | 288 | 132 | 67 | 38 | | |
| VEL 0101 T8 | 1 | 295 | 137 | 80 | 72 | XVE L172 B2 | |
| VEL 0126 T8 | 1 1/4 | 343 | 169 | 92 | 118 | XVE L200 B2 | |
| VEL 0151 T8 | 1 1/2 | 356 | 179 | 110 | 178 | XVE L201 B2 | |
| VEL 0201 T8 | 2 | 362 | 179 | 110 | 213 | | |

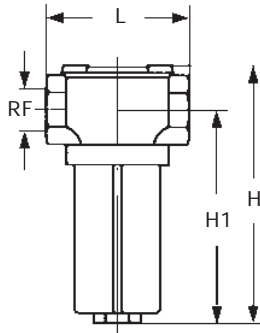
Max operating temperature LT 100° C
 Max operation pressure LP 16 bar

Materials Body T8 Nickel plated Brass
 Cartridge B3 AISI 316 Stainless steel

COMPLEMENTARY PRODUCTS

VEM

LARGE CAPACITY FILTERS



VEM FILTERS have been designed for high efficiency and ease of maintenance under hard conditions. The bowl houses large size cartridges, to extend periods of operation and reduce maintenance time, and has a thread connection to the body for quick removal without the aid of tools. Finally, a plug at the bottom of the bowl allows for fitting a ball valve to bleed the filter.

Max working pressure LP 20 bar

Materials Body & bowl V1 Aluminum casting
Cartridge B2 AISI 304 Stainless steel

| Code | RF inch BSPP | H mm | H1 mm | L mm | LP bar | Q lpm | Cartridge | M mesh | W kg | |
|---|--------------------|---------|----------|---------|-----------|----------|---|----------------|---------|-----|
| VEM 0050 V1 VEM 0051 V1 | 1/2 | 210 | 152 | 105 | 40 | 70 | XVE M075 B2 XVE M076 B2 | 60 80 | 0,9 | |
| VEM 0075 V1 VEM 0076 V1 | 3/4 | 210 | 152 | 105 | 40 | 95 | XVE M075 B2 XVE M076 B2 | 60 80 | | |
| VEM 0100 V1 VEM 0101 V1 | 1 | 210 | 152 | 105 | 40 | 140 | XVE M075 B2 XVE M076 B2 | 60 80 | | |
| VEM 0125 V1 VEM 0126 V1 | 1 1/4 | 270 | 210 | 140 | 30 | 280 | XVE M150 B2 XVE M151 B2 | 60 80 | | 1,6 |
| VEM 0150 V1 VEM 0151 V1 | 1 1/2 | 270 | 210 | 140 | 30 | 315 | XVE M150 B2 XVE M151 B2 | 60 80 | | |
| VEM 0200 V1 VEM 0201 V1 VEM 0202 V1 | 2 | 400 | 318 | 200 | 10 | 750 | XVE M300 B2 XVE M301 B2 XVE M302 B2 | 30 60 80 | | |
| VEM 0250 V1 VEM 0251 V1 VEM 0252 V1 | 2 1/2 | 400 | 318 | 200 | 10 | 810 | XVE M300 B2 XVE M301 B2 XVE M302 B2 | 30 60 80 | | |
| VEM 0300 V1 VEM 0301 V1 VEM 0302 V1 | 3 | 400 | 318 | 200 | 10 | 1050 | XVE M300 B2 XVE M301 B2 XVE M302 B2 | 30 60 80 | | |

CARTRIDGE SIZING TABLE

| Mesh number | Free Passage mm |
|----------------|-----------------|
| 30 - 32 | 0.6 - 0.58 |
| 50 | 0.3 |
| 60 | 0.25 |
| 75 | 0.2 |
| 80 | 0.18 |
| 100 | 0.15 |
| 150 | 0.1 |
| 200 | 0.075 |

SELF CLEANING FILTERS

Every industrial process need to be adequately protected by mean of a proper filtration. Please fill-in the form at page 32 with your requirements and send it to our offices, we will be glad to submit a quotation for customized self-cleaning filters.

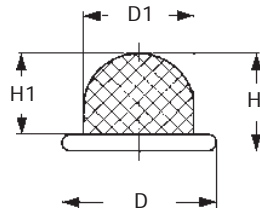
ASSEMBLY ACCESSORIES

VE

INTERNAL FILTERS



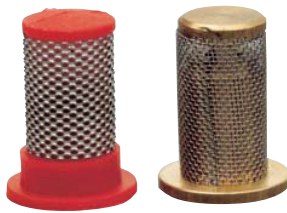
VEA



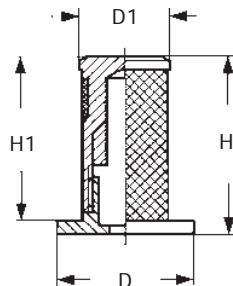
VEA

These filters can be assembled into all 3/8" nipple outlets and also into ZPB series clamps. Three different mesh dimensions are available, as shown in the table at the bottom of the page.

Materials Collar Copper
Wire net AISI 316 Stainless steel



VEC



VEC

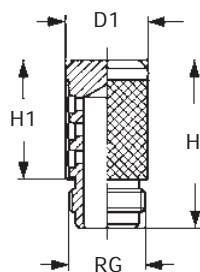
Used with nozzle tips, VEC type filters offer a large cartridge surface area as compared to the orifice cross section, and assure a long service time before maintenance is required.

These filters can be assembled into all 3/8" nipple outlets and into ZPB series clamps.

Materials Body B1 AISI 303 Stainless steel
B3 AISI 316 stainless steel
T1 Brass
Wire net B2 AISI 304 Stainless Steel



VEF



VEF

Threaded filters can be used with low-flow flat-jet 1/4" JB, HB series. Thread made to 3/8" UNF standard

Materials Body B1 AISI 303 Stainless steel
B3 AISI 316 stainless steel
T1 Brass
Wire net B2 AISI 304 Stainless Steel

Please ask for detailed information about specific filters to be assembled on RX/RZ series nozzles.

| Code | D mm | D1 mm | RG inch | H mm | H1 mm | M mesh |
|-------------|---------|----------|------------|---------|----------|-----------|
| VEA 0138 T9 | 14,5 | 9,5 | - | 8,5 | 7,3 | 100 |
| VEA 0238 T9 | | | | | | 75 |
| VEA 0338 T9 | | | | | | 50 |
| VEC 0138 xx | 15 | 10 | - | 20 | 18,5 | 100 |
| VEC 0238 xx | | | | | | 75 |
| VEC 0338 xx | | | | | | 50 |
| VEF 0138 xx | - | 10,2 | 3/8 UNF | 21 | 15 | 100 |
| VEF 0238 xx | | | | | | 75 |
| VEF 0338 xx | | | | | | 50 |

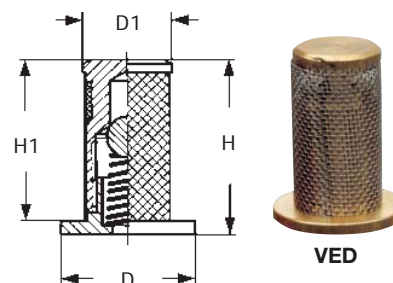
ASSEMBLY ACCESSORIES

INTERNAL FILTERS WITH CHECK VALVE

VE

VED

VED filters are fitted with an internal one way ball valve to avoid dripping when the spray is turned off, two different pressure rated springs are available to select the preferred opening pressure value, indicated by the C or the D as final digit in their code.



| Code | D mm | D1 mm | H mm | H1 mm | M mesh | Opening bar |
|--------------|---------|----------|---------|----------|-----------|----------------|
| VED 0138 xxC | 15 | 10 | 20 | 18,5 | 100 | 1,4 |
| VED 0238 xxC | | | | | 75 | |
| VED 0338 xxC | | | | | 50 | |
| VED 0138 xxD | 15 | 10 | 20 | 18,5 | 100 | 2,8 |
| VED 0238 xxD | | | | | 75 | |
| VED 0338 xxD | | | | | 50 | |

VE series filters can be made out of different materials, standard parts from stock are detailed in the table below. Other materials can be offered upon request.

| Material code | VEC | VED | VEF |
|---------------|-----|-----|-----|
| B1/AISI 303 | • | • | • |
| B3/AISI 316 | | | • |
| D3/Nylon | • | • | |
| T1/Brass | • | • | • |

CARTRIDGE SIZING TABLE

| Mesh number | Free Passage mm |
|-------------|-----------------|
| 30 - 32 | 0.6 - 0.58 |
| 50 | 0.3 |
| 60 | 0.25 |
| 75 | 0.2 |
| 80 | 0.18 |
| 100 | 0.15 |
| 150 | 0.1 |
| 200 | 0.075 |

INTERNAL FILTERS

VE filters provide an individual protection for each single nozzle tip. We recommend the use of individual filters on low capacity nozzles and nozzle tips, where outlet orifices and internal passages have limited dimensions and plugging is therefore likely to happen. These should be used in addition to a main filter on the supply line of the system. For an efficient protection, it is recommended to select a mesh size with a free-passage dimension smaller than the 70% of the free-passage dimension of the nozzle orifice.