

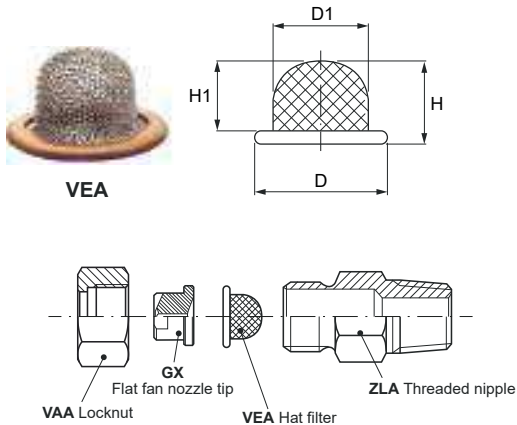


SPRAY NOZZLES FOR INDUSTRIAL APPLICATIONS



SPRAY NOZZLES & ASSEMBLY FITTINGS

GENERAL CATALOGUE



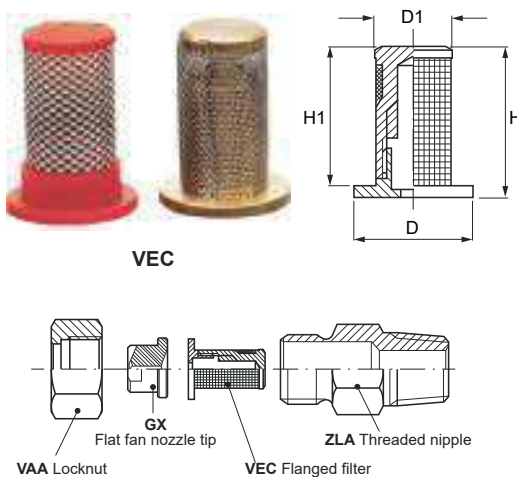
HAT FILTERS

VEA series hat-shaped check-valve filters are specially designed for 3/8" flanged nozzles. They are drip-free and protect the nozzle tips. We recommend to assemble filters with check-valve on small capacity nozzles to avoid clogging and enhance their performance.

- **Mesh number** 50, 75, 100 mesh
- **Materials Collar** T9 Copper
Wire net B3 AISI 316 Stainless steel
- **Typical application** Filtering before spraying liquids

Code	D mm	D1 mm	H mm	H1 mm	M mesh	Nozzle code
VEA 0138 T9	14.5	9.5	8.5	7.3	100	GX
VEA 0238 T9					75	BX
VEA 0338 T9					50	FX KX

VEC (FLANGED FILTERS)



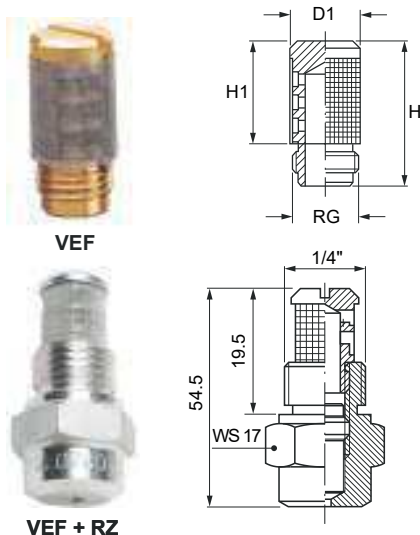
FLANGED FILTERS

VEC check-valve filters are specially designed for 3/8" flanged nozzles. They are drip-free and protect the nozzle tips. We recommend to assemble these filters on small capacity nozzles to avoid clogging and enhance their performance.

- **Materials Body** B1 AISI 303 Stainless steel
B31 AISI 316L Stainless steel
D3 Nylon
T1 Brass
- Wire net B2 AISI 304 Stainless steel
- **Typical application** Filtering before spraying liquids

Code	D mm	D1 mm	H mm	H1 mm	M mesh	Nozzle code
VEC 0138 xx	15.0	10.0	20.0	18.5	100	GX
VEC 0238 xx					75	BX
VEC 0338 xx					50	FX KX

VEF (THREADED FILTERS)



THREADED FILTERS

VEF threaded filters are specially designed for 1/4" J series flat fan nozzles and RX/RZ hollow cone nozzles. They provide a top filtering action and protect nozzle tips. We recommend to assemble threaded filters on small capacity nozzles to avoid clogging and enhance their performance.

- **Thread size** 3/8" UNF , M7, M8
- **Mesh number** 50, 75, 100 mesh
- **Materials Body** B1 AISI 303 Stainless steel
B31 AISI 316L Stainless steel
T1 Brass
- Wire net B2 AISI 304 Stainless steel
- **Typical application** Filtering before spraying liquids

Code	D1 mm	RG poll	H mm	H1 mm	M mesh	Nozzle code
VEF 0112 xx	10.0	M8	16.0	12.0	100	RX, RZ
VEF 0138 xx	10.2	3/8"UNF	21.0	15.0	100	JB(1/4")
VEF 0238 xx					75	
VEF 0338 xx					50	
VEF 0411 xx	8.1	M7	15.7	13.2	120	JA(1/8")

CHECK-VALVE FILTERS

VED series check-valve filters are specially designed for 3/8" flanged nozzles. VED filters contain a one-way ball valve to avoid dripping when spray is turned off. They also serve to protect the nozzle tips. We recommend to assemble check-valve filters on small capacity nozzles to avoid clogging and enhance their performance.

- **Opening pressure** 0.35, 0.70, 1.40, 2.00, 2.80 bar
- **Wire net mesh size** 50, 80, 100 mesh
- **Materials** Body **B1** AISI 303 Stainless steel
B31 AISI 316L Stainless steel
D3 Nylon
T1 Brass
 Wire net **B2** AISI 304 Stainless steel

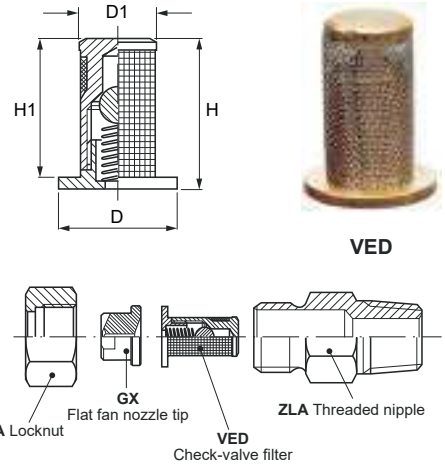






Table for body material: **AISI 303, AISI 316L, brass**

Code	D mm	D1 mm	H mm	H1 mm	M mesh	Opening bar
VED 0138 xxA	15.0	10.0	20.0	18.5	100	0.35
VED 0238 xxA	15.0	10.0	20.0	18.5	80	0.35
VED 0338 xxA	15.0	10.0	20.0	18.5	50	0.35
VED 0138 xxB	15.0	10.0	20.0	18.5	100	0.70
VED 0238 xxB	15.0	10.0	20.0	18.5	80	0.70
VED 0338 xxB	15.0	10.0	20.0	18.5	50	0.70
VED 0138 xxC	15.0	10.0	20.0	18.5	100	1.40
VED 0238 xxC	15.0	10.0	20.0	18.5	80	1.40
VED 0338 xxC	15.0	10.0	20.0	18.5	50	1.40
VED 0138 xxD	15.0	10.0	20.0	18.5	100	2.80
VED 0238 xxD	15.0	10.0	20.0	18.5	80	2.80
VED 0338 xxD	15.0	10.0	20.0	18.5	50	2.80

Table for body material: **nylon**

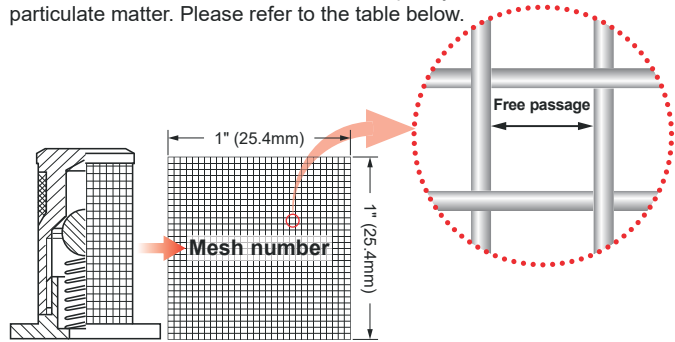
Code	D mm	D1 mm	H mm	H1 mm	M mesh	Opening bar
VED 0138 xxB	15.0	10.0	20.0	18.5	100	0.70
VED 0238 xxB	15.0	10.0	20.0	18.5	80	0.70
VED 0338 xxB	15.0	10.0	20.0	18.5	50	0.70
VED 0138 xxE	15.0	10.0	20.0	18.5	100	2.00
VED 0338 xxE	15.0	10.0	20.0	18.5	50	2.00

We offer a large assortment of VE series filters for your convenience. Please refer to below table.

Code	VEC	VED	VEF	VEA
Appearance				
	Flanged	Check-valve	Threaded	Hat
B1 AISI 303	•	•	•	
B31 AISI 316L	•	•	•	
D3 Nylon	•	•		
T1 Brass	•	•	•	
T9 Copper				•

CARTRIDGE SIZE TABLE

To figure out mesh sizes one has to count the number of openings from the centre of any one wire to the centre of a parallel wire one inch away. The number of openings in a filter cartridge is the mesh size. We highly recommend to add filters to small capacity nozzles to hold fine particulate matter. Please refer to the table below.



HOW TO CHOSE THE PROPER FILTER ?

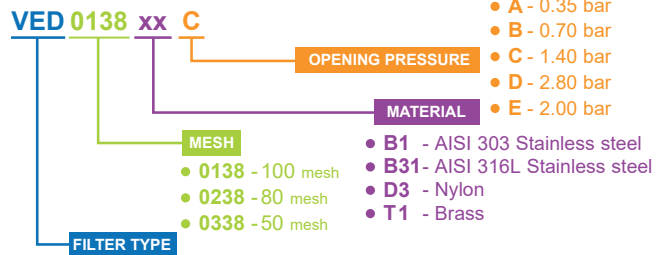
The largest filter free passage < nozzle orifice

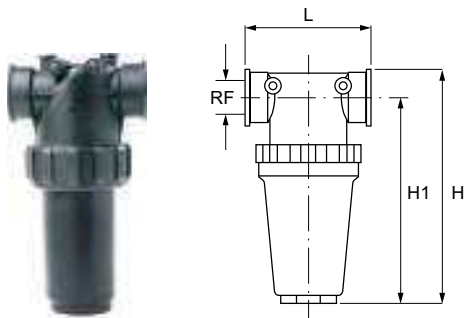
Mesh number	Free passage mm
30 - 32	0.6 - 0.58
50	0.3
60	0.25
75	0.2
80	0.18
100	0.15
150	0.1
200	0.075

If the nozzle tip diameter is 0.3 mm, we suggest you to choose a 60 mesh filter or more (free passage 0.25 mm). Please consider that the higher is the number of mesh, the greater is the filtering power.

HOW TO MAKE UP THE FILTER CODE

EX.: VED 0138 B1C





PLASTIC BODY FILTERS

VEH filters with plastic body are a rational and economic solution for most operating environments. The threaded coupling between bowl and head allows a quick filter cleaning and easy replacement of the cartridge and no need of tools. They have a high particles retention and are durable.

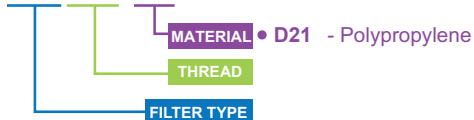
- Inlet / Outlet thread size 1/2", 3/4", 1", 1 1/4", 1 1/2"
- Max steam pressure LP from 10 bar to 15 bar
- Capacity LQ 250 l/min
- Materials Body D6 Polypropylene + 30% Glass fiber
- Seal E0 EPDM
- Cartridge B2 AISI 304 Stainless steel
- Typical application Filtering before spraying liquids

Code	RF inch BSPP	H mm	H1 mm	L mm	Q l/min	Cartridge	M mesh
VEH 0050 D21	1/2"	136	118	99	140	XVE H050 DA2	32
VEH 0051 D21						XVE H051 DA2	50
VEH 0052 D21						XVE H052 DA2	100
VEH 0075 D21	3/4"	136	118	99	140	XVE H050 DA2	32
VEH 0076 D21						XVE H051 DA2	50
VEH 0077 D21						XVE H052 DA2	100
VEH 0100 D21	1"	165	143	107	140	XVE H053 DA2	32
VEH 0101 D21						XVE H054 DA2	50
VEH 0102 D21						XVE H055 DA2	100
VEH 0125 D21	1 1/4"	279	239	146	250	XVE H060 DA2	32
VEH 0126 D21						XVE H061 DA2	50
VEH 0127 D21						XVE H062 DA2	100
VEH 0150 D21	1 1/2"	279	239	146	250	XVE H060 DA2	32
VEH 0151 D21						XVE H061 DA2	50
VEH 0152 D21						XVE H062 DA2	100

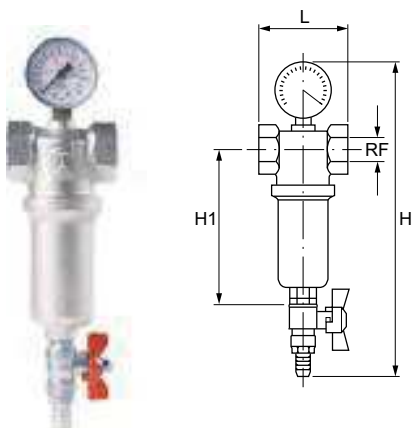
HOW TO MAKE UP THE FILTER CODE

EX.: VEH 0050 D21

VEH0050 D21



VEL (BRASS BODY FILTERS)



BRASS BODY FILTERS

VEL type filters with body in brass are the ideal solution for small plants requiring easy cleaning and maintenance. When necessary, simply open the valve at the bottom of the filter and the dirt contained inside the cartridge is easily expelled. A manometer on the filter head shows the outlet pressure hence pressure drop when clogged.

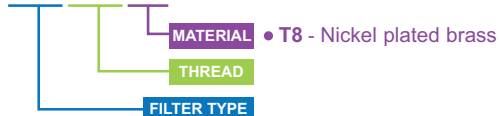
- Inlet / Outlet thread size 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"
- Max operation temperature LT 100°C
- Max steam pressure LP 16 bar
- Materials Body T8 Nickel plated brass
- Cartridge B2 AISI 304 Stainless steel
- Typical application Filtering before spraying liquids

Code	RF inch BSPP	H mm	H1 mm	L mm	Q l/min	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"	287	132	67	38	XVE L172 B2	
VEL 0101 T8	1"	295	137	80	72		
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		

HOW TO MAKE UP THE FILTER CODE

EX.: VEL 0039 T8

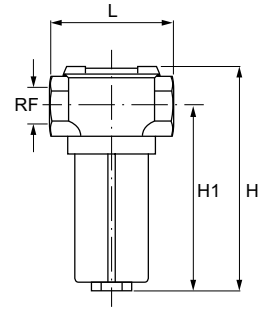
VEL 0039 T8



LARGE CAPACITY FILTERS

VEM filters are specially designed for high particle retention, easy maintenance and great efficiency in harsh operating conditions. Their bowl houses a large size cartridge for a longer operating life and reduced servicing times. The threaded connection to the filter body allows a quick removal with no need of tools. A plug placed at the bottom of the bowl allows to fit in a ball valve to purge the filter.

- Thread size 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3"
- Wire net mesh size 60, 80 mesh; other sizes available on request
- Max working pressure **LP** 40 bar
- Materials Body & bowl **V1** Aluminium casting
Cartridge **B2** AISI 304 Stainless steel
- Typical application Filtering before spraying liquids

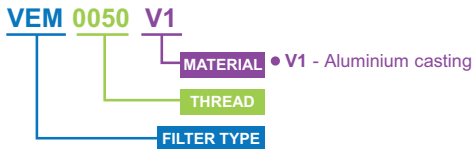


Mesh number	Free passage mm
30 - 32	0.6 - 0.58
50	0.3
60	0.25
75	0.2
80	0.18
100	0.15
150	0.1
200	0.075

Code	RF inch BSP	H mm	H1 mm	L mm	LP bar	Q l/min	Cartridge	M mesh	W kg
VEM 0050 V1	1/2"	210	152	105	40	70	XVE M075 B2	60	0.9
VEM 0051 V1							XVE M076 B2	80	
VEM 0075 V1	3/4"	210	152	105	40	95	XVE M075 B2	60	
VEM 0076 V1							XVE M076 B2	80	
VEM 0100 V1	1"	210	152	105	40	140	XVE M075 B2	60	
VEM 0101 V1							XVE M076 B2	80	
VEM 0125 V1	1 1/4"	270	210	140	30	280	XVE M150 B2	60	1.6
VEM 0126 V1							XVE M151 B2	80	
VEM 0150 V1	1 1/2"	270	210	140	30	315	XVE M150 B2	60	
VEM 0151 V1							XVE M151 B2	80	
VEM 0200 V1	2"	400	318	200	10	750	XVE M300 B2	30	5.6
VEM 0201 V1							XVE M301 B2	60	
VEM 0202 V1							XVE M302 B2	80	
VEM 0250 V1	2 1/2"	400	318	200	10	810	XVE M300 B2	30	
VEM 0251 V1							XVE M301 B2	60	
VEM 0252 V1							XVE M302 B2	80	
VEM 0300 V1	3"	400	318	200	10	1050	XVE M300 B2	30	
VEM 0301 V1							XVE M301 B2	60	
VEM 0302 V1							XVE M302 B2	80	

HOW TO MAKE UP THE FILTER CODE

EX.: VEM 0050 V1

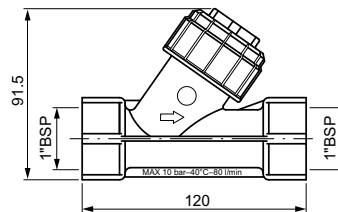


("Y" STYLE FILTER) **VEQ**

"Y" STYLE FILTER

VEQ xxGF B3G filter is widely used in all types of nozzles filtering systems. It allows for quick cleaning and replacement with no need of tools.

- Inlet / Outlet thread size 1/2" 3/4" 1"
- Mesh 60 Mesh
- Max operation temperature **LT** 40°C
- Max operation pressure **LP** 10 bar
- Max capacity **LQ** 80 l/min
- Materials Body **D6** PP, chemically bonded fiberglass
Cartridge **B3** AISI 316I Stainless steel
- Typical application Filtering before spraying liquids



VEQ xxGF B3G