RIEGLER Compressed air conditioning



Additional charge for differential pressure gauge

Characteristics

Туре	FV 33	FA 33				
Port	G 1/2					
Type of construction	Pre-filter 0.3 μm	Micro-filter 0.01 μm	Activated carbon filter			
Mounting position	Vertical, drain plug at bottom					
Input pressure p ₁	Min. 0.5 bar Min. 1.5 bar with fully automatic drain Max. 20 bar Max. 20 bar with fully automatic drain					
Dust separation	>0.3 µm / 99.999%	>0.01 µm / 99.999%				
Residual oil content		0.01 mg/m ³	0.005 mg/m ³			
Temperature Ambient / medium	Max. 60 °C (other temperature ranges on request)					
Nominal flow Q _n	500 l/min	720 l/min	1500 l/min			
∆ p*	0.02 bar	0.09 bar	0.2 bar			
Bowl capacity	Max. 2					
Condensate drain	Semi-automa Fully-automat					
Mounting type	Two through holes, bracket					
Weight [g]	0.800					

^{*}See overleaf for flow rate equation

Materials

Designation	Material
	7. 7.440
Head piece	Zinc – Z 410
Cover	Zinc – Z 410
O-ring 50 x 2	NBR
O-ring 29.87 x 1.78	NBR
Pre-filter element	Paper – POM
Micro-filter element	Borosilicate – POM
Activated carbon element	Activated carbon – POM
Condensate bowl	Polycarbonate
Oil bowl	Polycarbonate

Fine filters

Size 3

FV 33 / FM 33 / FA 33

Pre-filter Micro-filter 0.3 μm 0.01 μm





Ordering information

K(-HA)	Plastic bowl	
S	Bowl guard	
M	Metal bowl with sight glass	
Α	Automatic drain valve	

FV 33 K-HA

→ Pre-filter with plastic bowl and semi-automatic condensate drain valve

Description

- Block design
- Simple block mounting of several devices with conical clamps (no tools required)
- Joiner sets (KP 05) are required for block mounting with other devices
- Flow direction indicated by arrows
- Entry in direction of arrow
- Bowl guard can be mounted without tools

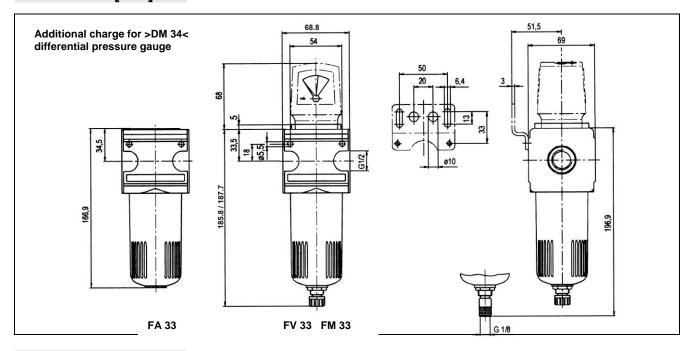
Filter elements

Designation	Part No.
Pre-filter element	V 38/60
Micro-filter element	M 38/60
Activated carbon element	A 38/90

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Dimensions [mm]



Typical applications

Pre-filter FV 33

For compliance with **strict** compressed air purity requirements.

Fine particles larger than 0.3 μm , which are able to pass through the sintered filter elements unhindered, are separated in the **FV 33** filter.

Typical applications include:

- Chemical industry
- Paint spraying plants
- Food processing industry
- Pharmaceutical industry
- Precision instruments

Micro-filter FM 33

For compliance with **very strict** compressed air purity requirements.

Very fine particles larger than 0.01 $\,\mu m$ and oil mist are separated in the **FM 33** filter.

Typical applications include:

- Paint spraying plants
- Food processing industry
- Pharmaceutical industry
- Precision instruments

Activ. carbon filter FA 33

For **filtering odours** out of compressed air. The activated carbon absorbs the oil vapour molecules contained in the air. A separate filter route prevents activated carbon particles from entering the air flow.

Typical applications include:

- Food processing industry
- Medical equipment
- Pharmaceutical industry

Flow rates

	Required flow \mathbf{Q} = nominal flow \mathbf{Q}_n x correction factor \mathbf{f}								ightarrow C	$Q = Q_r$	ı x f						
	p [bar]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ſ	f	0.46	0.6	0.68	0.77	0.85	0.93	1	1.07	1.11	1.17	1.23	1.28	1.32	1.36	1.4	1.46

Accessories

Designation	Part No.	Designation	Part No.
Bracket kit	ZW 33	Polycarbonate bowl with	KS 33 F-HA
Joiner set for block mounting with other devices	KP 33	semi-automatic drain valve (FV / FM) Polycarbonate bowl (FA)	KS 33 N
Joiner set for narrow manifolds	KP 33 Z	Metal bowl with sight glass (FV / FM)	MS 33 FS
Automatic drain valve	655.6.900	Metal bowl with sight glass (FA) Differential pressure gauge	MS 33 NS DM 34



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Art. No.	Ident No.
FV 33 K-HA	100528
FV 33 S	100530
FV 33 M	100532
FV 33 K-A	121295
FV 33 S-A	121297
FV 33 M-A	121296
FM 33 K-HA	100534
FM 33 S	100536
FM 33 M	100538
FM 33 K-A	121078
FM 33 S-A	121080
FM 33 M-A	121079
FA 33 K	100540
FA 33 S	100542
FA 33 M	100544

Art. No.	Ident No.
V 38/60	100545
M 38/60	100546
A 38/90	100550
ZW 33	100441
KP 33	100442
KP 33 Z	100443
655.6.900	100362
KS 33 F-HA	100504
KS 33 N	100548
MS 33 FS	100502
MS 33 NS	100549
DM 34	100172