

Newdeal FILTER

Filter with different impurity filtration degrees.

- Metal bowl with external viewing
- Semi-automatic and condensate drainage

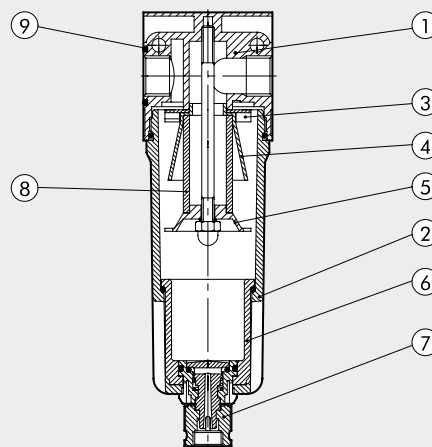


TECHNICAL DATA

		FIL ND 1/4"	FIL ND 3/8"	FIL ND 1/2"	FIL ND 3/4"	FIL ND 1"
Threaded port		1/4"	3/8"	1/2"	3/4"	1"
Degree of filtration	μm	4 - 20 - 50	4 - 20 - 50	4 - 20 - 50	4 - 20 - 50	4 - 20 - 50
Max. inlet pressure	MPa	1.8	1.8	1.8	1.8	1.8
	bar	18	18	18	18	18
	psi	261	261	261	261	261
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 0.5 bar (0.05 MPa to 7 psi)	Nl/min	1300	3100	9100	324	11000
	scfm	46	110	324	11000	
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 1 bar (0.1 MPa to 14 psi)	Nl/min	1720	4100	11000		
	scfm	61	146	391		
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50°	50°	50°	50°	50°
	°F	122°	122°	122°	122°	122°
Weight	kg	0.4	0.9	1.2		
Wall fixing screws		M4 x 40	M4 x 55	M6 x 75		
Bowl capacity	cm ³	10	45	170		
Mounting position		Vertical	Vertical	Vertical		
Drain		RMSA - SAC	RMSA - SAC - RA	RMSA - RA		
		RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.				
		RA: automatic drain with condensate discharge, independent of pressure and flow rate. Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.				
		SAC: automatic drain with condensate discharge.				
		Operates by pressure drop – requires variable air take-offs.				
		Compressed air				
		The maximum inlet pressure for the version with RA automatic condensate drainage must not exceed 10 bar.				
Fluid						
Note on use						

COMPONENTS

- ① Zamak body
- ② Aluminium bowl
- ③ Technopolymer centrifuge
- ④ Technopolymer baffle plug
- ⑤ Technopolymer screen
- ⑥ Clear technopolymer bowl
- ⑦ Drain (RMSA)
- ⑧ HDPE bronze filter cartridge (1/4 - 3/8 - 1/2), sintered bronze (1")
- ⑨ NBR gaskets

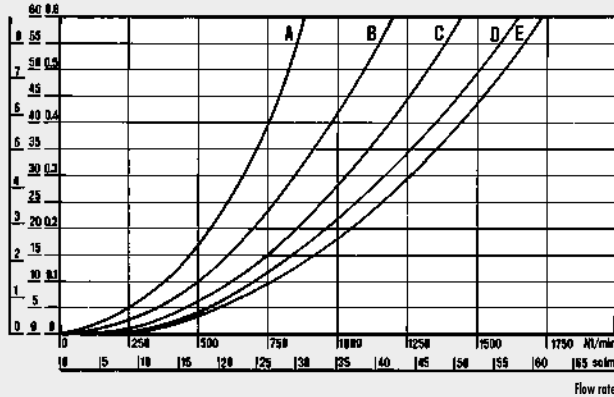


FLOW CHARTS

FIL 1/4

 $\Delta P = (P_m - P_v)$

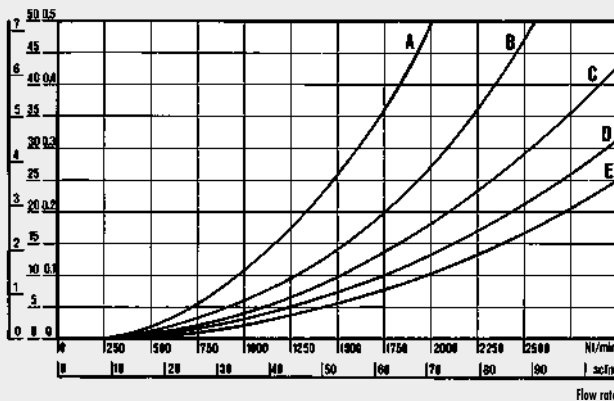
psi kPa bar



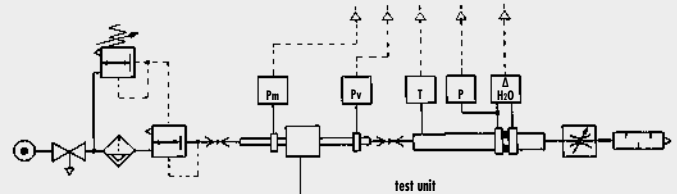
FIL 3/8 - 1/2

 $\Delta P = (P_m - P_v)$

psi kPa bar



**Department
of Mechanics**
Turin Polytechnic



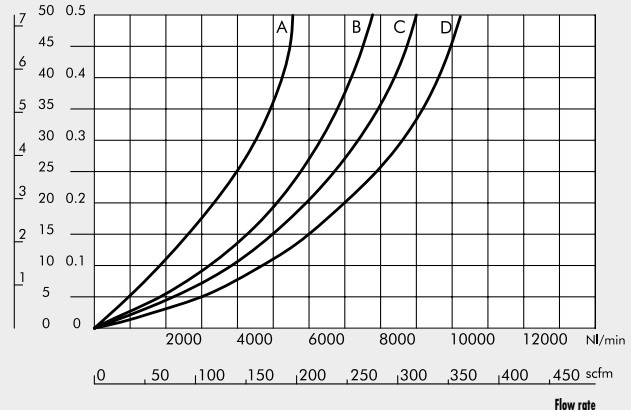
• Flow tests carried out at the Department of Mechanics, Turin Polytechnic, using the computerized test bench following CETOP RP50R recommendations (ISO DIS 6358-2-approved) with ISO 5167 diaphragm gauge.

(A) = 2 bar - 0.2 MPa - 29 psi (D) = 8 bar - 0.8 MPa - 116 psi
(B) = 4 bar - 0.4 MPa - 58 psi (E) = 10 bar - 1 MPa - 145 psi
(C) = 6 bar - 0.6 MPa - 87 psi

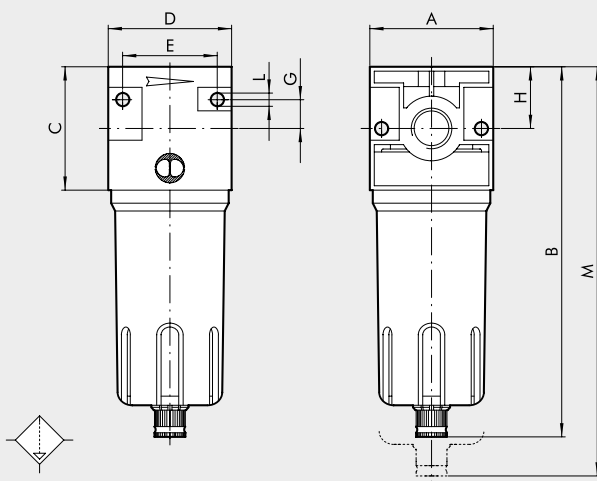
FIL 3/4 - 1"

 $\Delta P = (P_m - P_v)$

psi kPa bar



DIMENSIONS



		FIL ND 1/4"	FIL ND 3/8"	FIL ND 1/2"	FIL ND 3/4"	FIL ND 1"
Threaded port		1/4"	3/8"	1/2"	3/4"	1"
A		42	60		80	
B	RMSA	142	180		235	
	RA	-	184		239	
	SAC	146	184		239	
C		42	60		80	
D		42	60		80	
E		32	46		66	
G		10	14		22	
H		21	30		40	
L		Hole for M4 screws	Hole for M4 screws		Hole for M6 screws	
M	RMSA	185	230		325	
	RA	-	234		329	
	SAC	189	234		329	

SYNOPTIC, SIZES AND VERSIONS

FIL ELEMENT	1/4 THREADED PORT	4 DEGREE OF FILTRATION	RMSA TYPE OF CONDENSATE DRAIN
FIL.	1/4	4 µm	RMSA
	3/8	20 µm	SAC
	1/2	50 µm	RMSA
	3/4		SAC
	1		RA
			RMSA
			RA

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.

RA: automatic drain with condensate discharge, independent of pressure and flow rate. Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.

SAC: automatic drain with condensate discharge.

Operates by pressure drop – requires variable air take-offs.

ORDERING CODES

Code Description

New deal FILTER 1/4"

1221005 FIL 1/4 4 RMSA
1221013 FIL 1/4 4 SAC
1221006 FIL 1/4 20 RMSA
1221014 FIL 1/4 20 SAC
1221008 FIL 1/4 50 RMSA
1221016 FIL 1/4 50 SAC

New deal FILTER 3/8"

1321005 FIL 3/8 4 RMSA
1321009 FIL 3/8 4 RA
1321013 FIL 3/8 4 SAC
1321006 FIL 3/8 20 RMSA
1321010 FIL 3/8 20 RA
1321014 FIL 3/8 20 SAC
1321008 FIL 3/8 50 RMSA
1321012 FIL 3/8 50 RA
1321016 FIL 3/8 50 SAC

New deal FILTER 1/2"

1421005 FIL 1/2 4 RMSA
1421009 FIL 1/2 4 RA
1421013 FIL 1/2 4 SAC
1421006 FIL 1/2 20 RMSA
1421010 FIL 1/2 20 RA
1421014 FIL 1/2 20 SAC
1421008 FIL 1/2 50 RMSA
1421012 FIL 1/2 50 RA
1421016 FIL 1/2 50 SAC

New deal FILTER 3/4"

1521005 FIL 3/4 4 RMSA
1521009 FIL 3/4 4 RA
1521006 FIL 3/4 20 RMSA
1521010 FIL 3/4 20 RA
1521008 FIL 3/4 50 RMSA
1521012 FIL 3/4 50 RA

New deal FILTER 1"

1621005 FIL 1 4 RMSA
1621009 FIL 1 4 RA
1621006 FIL 1 20 RMSA
1621010 FIL 1 20 RA
1621008 FIL 1 50 RMSA
1621012 FIL 1 50 RA

NOTES