

# FILTER HOUSING - FD

## DESCRIPTION

FD filter housings have been specifically developed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons and odour vapours from compressed air <sup>(1)</sup> systems. To meet the required compressed air quality appropriate filter element must be installed into filter housing. FD filter housings are compatible with DONALDSON filter cartridges.

## APPLICATIONS <sup>(2)</sup>

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application



<sup>(1)</sup> For any other technical gas please contact us or your local dealer

<sup>(2)</sup> FD filter housing can be used in variety of applications. For applications not listed please contact us or your local dealer.

## TECHNICAL SPECIFICATION

Operating temperature	1,5 - 65 °C	35 - 149 °F
Operating pressure	0 - 16 bar(g)	0 - 232 psi

## MATERIALS

Housing material	Aluminium
Fittings, Screws	Brass, Brass-zinc plated, Steel
Cover	/
Sealing	NBR
Corrosion protection	Anodized (optional)
Outside protection	Powder paint coated (Epoxy-polyester base)
Lubricant	Shell cassida grease RLS 2

**SIZES**

FILTER HOUSING	PIPE SIZE [inch]	FILTER ELEMENT	FLOW CAPACITY		DIMENSIONS [mm]			VOLUME [l]	WEIGHT [kg]
			[m³/h]	[scfm]	A	B	C		
FD 0002	1/4	02/05	20-40	12-24	198	80	21	0,45	0,7
FD 0004	3/8	03/05	40-60	24-35	198	80	21	0,44	0,7
FD 0006	3/8	03/10	60-90	35-53	198	80	21	0,42	0,7
FD 0009	1/2	04/10	90-120	53-71	267	80	21	0,58	0,8
FD 0012	1/2	04/20	120-180	71-106	259	117	33	1,35	1,9
FD 0018	3/4	05/20	180-270	106-159	359	117	33	1,92	2,3
FD 0027	1	05/25	270-360	159-212	359	117	33	1,9	2,3
FD 0036	1 1/4	07/25	360-480	212-283	359	117	33	1,83	2,3
FD 0048	1 1/2	07/30	480-720	283-424	700	140	49	5,6	5,6
FD 0072	2	10/30	720-1080	424-634	700	140	49	5,5	5,5
FD 0108	2	15/30	1080-1440	634-848	700	140	49	5,2	5,7
FD 0144	2 1/2	20/30	1440-1920	848-1130	813	217	69	15,4	14,8
FD 0192	3	30/30	1920-2880	1130-1695	1010	217	69	19,6	17,1
FD 0288	3	30/50	2880-4320	1695-2543	1010	217	69	18,1	17,5

Flow capacity at 7 bar(g), 20°C

Standard is BSP pipe connection, other pipe connection on request.

**PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)**

FD 0002 - FD 0036

Article 4.3

FD 0048 - FD 0108

Category 1, Module A

FD 0144 - FD 0288

Category 2, Module H

**PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)<sup>(3)</sup>**

FD 0002 - FD 0012

Article 4.3

FD 0018 - FD 0036

Category 1, Module A

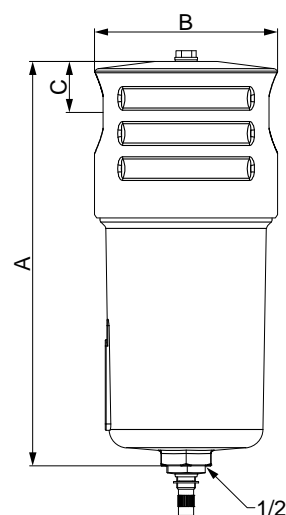
FD 0048 - FD 0108

Category 2, Module H

FD 0144 - FD 0288

Category 3, Module H

<sup>(3)</sup> Fluid group must be specified in the order, if not standard fluid group 2 is selected.



**CORRECTION FACTORS**

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C<sub>OP</sub>


**OPERATING PRESSURE**

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C <sub>OP</sub>	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

**MAINTENANCE**

Replace filter element at least every 12 months or follow the instructions for specific filter element. Once per year make a visual check of filter housing and make sure there is no visual damage.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285
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