

VACUUM PUMP PROTECTION FILTERS

P-VACFC

DESCRIPTION

P-VACFC filters have been specifically developed for protection of vacuum pumps. These filters are optimised for high-efficient removal of solid particles and other contamination from the suction side of vacuum pumps preventing damage to the pump. For P-VAC filter series we offer two filtration stages. Rough pre-filter “VACP” removes bulk liquid and large solid particles while high efficiency microfilter VACM removes very fine impurities which may damage the pump.

APPLICATIONS ⁽¹⁾

- Vacuum pumps

⁽¹⁾ P-VACFC 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	20 - 2000mbar(abs)	0,29 – 29 psi
Initial pressure drop VACM	30mbar	0,45 psi
Initial pressure drop VACP	10mbar	0,15 psi

MATERIALS

Housing material	Aluminium
Fittings, Screws	Brass, Brass-zinc plated, Steel
Cover	ABS
Sealing	NBR
Corrosion protection	Anodized
Outside protection	Powder paint coated (Epoxy-polyester base)
Lubricant	Shell cassida grease RLS 2
Filter media	Borosilicate micro fibres,
Drainage media	Polyester
Support (inner-outer)	Stainless Steel 1.4301
Bonding	Polyurethane
Endcaps	PA6 with 30% glass fibres
Sealing	NBR



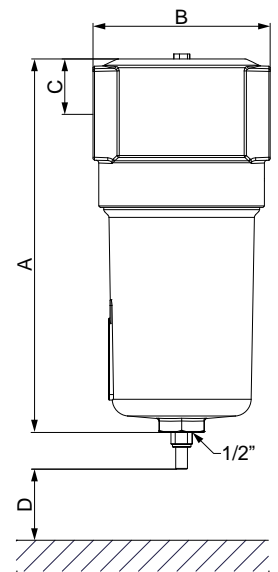
SIZES

FILTER HOUSING	PIPE SIZE [inch]	FILTER ELEMENT	Capacity ⁽²⁾		DIMENSIONS [mm]				VOLUME [l]	WEIGHT [kg]
			[Nm ³ /h]	[scfm]	A	B	C	D		
P-VACFC 0056	3/8"	06050 VACP, VACM	7,5	4,4	192	88	25	60	0,49	0,6
P-VACFC 0076	1/2"	07050 VACP, VACM	9,8	5,7	192	88	25	60	0,49	0,6
P-VACFC 0106	3/4"	14050 VACP, VACM	15,0	8,8	262	88	25	80	0,68	0,7
P-VACFC 0186	1"	12075 VACP, VACM	24,8	14,6	264	125	39	100	1,57	1,2
P-VACFC 0306	1"	22075 VACP, VACM	41,9	24,7	364	125	39	120	2,1	1,6
P-VACFC 0476	1 1/2"	32075 VACP, VACM	63,8	37,6	464	125	39	140	2,7	1,9
P-VACFC 0706	1 1/2"	50075 VACP, VACM	97,5	57,4	644	125	39	160	3,8	2,6
P-VACFC 0946	2	51090 VACP, VACM	125,0	73,6	696	164	50	520	6,1	5,7
P-VACFC 1506	2	76090 VACP, VACM	187,5	110,4	943	164	50	770	8,3	7,6
P-VACFC 1756	2 1/2"	76090 VACP, VACM	210,0	123,6	943	164	50	770	8,4	7,3
P-VACFC 2006	3"	51140 VACP, VACM	270,0	158,9	801	242	60	630	16,7	14,1
P-VACFC 2406	3"	75140 VACP, VACM	345,0	203	998	242	60	780	21,3	16,7

⁽²⁾Free air capacity at atmospheric pressure
Standard is BSP pipe connection, other pipe connection on request.

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 C₁.
- To select a filter to match system flow conditions, multiply the system flow by the correction factor C₂ that corresponds to vacuum in the pipe.




OPERATING PRESSURE

[bar] absolute	1	0,9	0,8	0,7	0,6	0,5	0,4	0,3	0,2	0,1	0,05	0,02
[psi] absolute	14,7	13	11,6	10,2	8,7	7,3	5,8	3,3	2,9	1,45	0,73	0,29
C ₁	1	0,9	0,8	0,7	0,6	0,5	0,4	0,3	0,2	0,1	0,05	0,02
C ₂	1	1,1	1,25	1,43	1,67	2	2,5	3,33	5	10	20	50

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.

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