SupaPore H0P

Hydrophobic Air and Gas Filter



SupaPore H0P hydrophobic filters are specifically designed for venting applications on tanks and vessels and for the filtration of compressed air and gases. These cartridges contain a very fine rated borosilicate glass fibre media surface modified with fluoropolymer to provide excellent hydrophobic properties. This ensures high flow rates and low pressure drops are achieved under a wide range of conditions.

All cartridges are thermally bonded and adhesive free to provide a robust filter.



Product Features

- Hydrophobic media rated at 0.02µm in air and gas
- Performance validated by bacterial aerosol challenge by an independent laboratory
- Optional large bore stainless steel core for enhanced flow rates
- High flow rates and low pressure drops
- Available with a range of adaptors and in multiple lengths
- Long steam sterilisation life

The use of a hydrophobic media in SupaPore H0P cartridges helps prevent the filter from wetting-out during use. This is critical in applications where water vapour is present to ensure that air flow into and out of the equipment is maintained. Typical applications include tanks containing liquids at elevated temperatures, autoclaves where steam may come into contact with the filter and gas and air filtration in fermentation processes. The high flow characteristics of SupaPore H0P hydrophobic filters allow the use of smaller filters keeping costs to a minimum.



Amazon Filters manufactures a comprehensive range of housings for SupaPore H0P hydrophobic filters including the 50 and 60 Series for general applications and the 70 Series for more hygienic applications.

Features and Benefits

- Optional Stainless Steel internal support core for enhanced flow rates
- High flow rates, lower pressure losses
- Validated performance assuring effective removal of bacteria
- Hydrophobic media prevents wetting out of the filter
- Full Product Validation Guide available
- All SupaPore cartridges are manufactured under strict control with batch number identification, giving full traceability on all components
- Compliant with the requirements of EN1822 for H14 class filters
- All individual packing bags are anti static

Industries and Applications

- Tank and vessel venting
- Fermentation inlet gas and off-gas filtration
- Filtration of compressed air and gases
- Autoclave vacuum break

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SupaPore H0P Technical Data

Dimensions

	Standard	Junior
Outside diameter:	68.5mm	56mm
Surface area:	0.42m² (per 10")	0.06m² (2") 0.12m² (5")

Sterilisation and Sanitisation*[1]

Steam or Autoclave: 121°C for 30 minutes (100 cycles)
140°C for 20 minutes (100 cycles)

[1] Applies to single open end cartridges only. For all steaming and hot water applications, the Reinforced Polypropylene End Cap option must be used.

Maximum Operating Conditions

Temperature: 80°C (for intermittent exposure to air)
60°C (for continuous exposure to air)

Recommended Maximum Differential Pressure:
Forward Flow: 4.0 bar @ 20°C
Reverse Flow: 1.5 bar @ 20°C

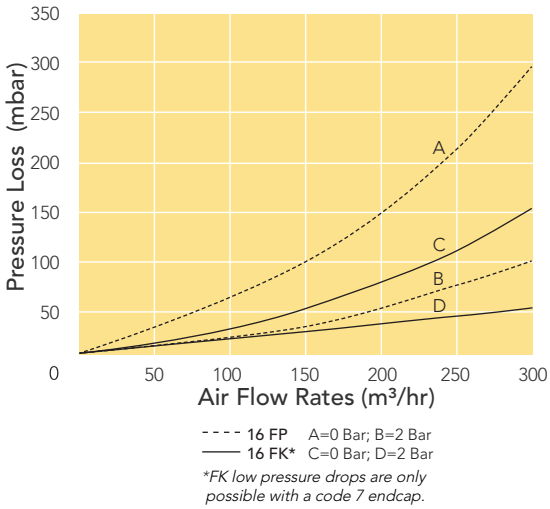
Recommended change-out differential pressure: 2.5 Bar

Standard Materials of Construction

Filter Media: Borosilicate Glass Microfibre (Hydrophobic Fluoropolymer coated)
Media support: Polypropylene
End Caps: Polypropylene
Cage: Polypropylene
Core: Polypropylene - P Option
Stainless Steel (316) - K Option

Product validation guide available on request. All SupaPore H0P cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Air Flow Rates (10" Element)



16 FP A=0 Bar; B=2 Bar
16 FK* C=0 Bar; D=2 Bar

**FK low pressure drops are only possible with a code 7 endcap.*

Ordering Guide

16F	KG	H0P -	20	A	S	A	B
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
16F - Fluoropolymer Coated Borosilicate Glass Microfibre	DG - Polypropylene Cage and End Caps, Reinforced Polypropylene Core KG - Polypropylene Cage and End Caps, Stainless Steel Core*[6] PG - Polypropylene	H0P - 0.02µm	02 - 62mm 05 - 122 09 - 249 20 - 496 30 - 744 40 - 991	J - Junior*[3] 0 - DOE A - Code A B - Code B*[2] D - Code D S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8 9 - Code 9	B - Buna E - EPDM F - FEP / Silicone (SOE Only) S - Silicone T - PTFE (DOE Only) V - Viton G - FEP / Viton	A - Amazon	G - Reinforced Polypropylene End Cap*[4] A - Millidisk Retrofit Adaptor*[5] B - ½" BSPM Adaptor*[5] C - Trueseal Retrofit Adaptor*[5]

Example: 16FKGH0P-207SAG = Borosilicate Glass Microfibre media with stainless steel core, General grade, 0.02µm, 20", Code 7 connections with Silicone seals.
*[2] Code B - to fit Amazon 50 Series housings only.
*[3] Junior cartridges available in 2" and 5", Code J, Single Open Ended Only.
*[4] Standard in Junior. Not available on Code 0. Always specify G with FKG version.
*[5] Junior filters only.
*[6] Not available in Junior size, Grade 316. FKG version only available with code 2 and code 7 endcaps which are 'G' option (Glass filled)

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