

Pobrano ze strony

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☎ [+48 693 919 400](tel:+48693919400)

✉ dh@desco.pl





PROPOR HC Filters

- liquid filters
- polyethersulphone

PROPOR HC sterilizing grade filters have been specifically designed for the effective and economical processing of difficult to filter solutions.

The optimized PROPOR HC PES membrane configuration features a highly asymmetric membrane prefilter layer, which significantly extends throughput and prevents the problems associated with premature filter blockage with complex solutions.

PROPOR HC filters are high capacity and fast flowing. The PES membrane is inherently low binding, which minimizes product loss due to protein or preservative adsorption. The filters have low extractable levels and broad chemical compatibility.

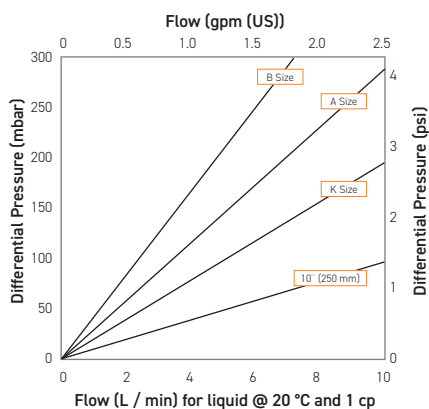
Features and Benefits

- Optimized membrane configuration allows up to ten times the throughput compared to single layer membrane products
- Integral prefilter layer can condense filter trains for greater processing economy
- Incorporates a fully validated and integrity testable 0.2 micron membrane for assurance of sterility
- Low binding for minimal product loss

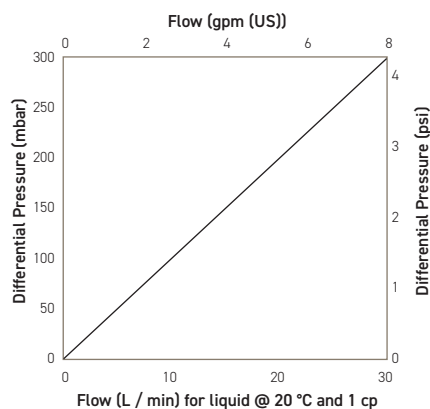


Note: PROPOR and DEMICAP are registered trademarks of Parker Hannifin Corporation.

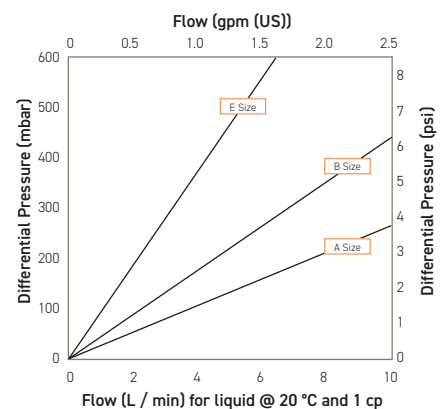
Performance Characteristics



Cartridge flow rates



MURUS flow rates (10" Size 250 mm)



DEMICAP flow rates

Specifications

Materials of Construction

- Filtration Membrane: Polyethersulphone
- Prefilter Membrane: Polyethersulphone
- Upstream Support: Polyester
- Downstream Support: Polyester

Filter Cartridges

- Inner Support Core: Polypropylene
- Outer Protection Cage: Polypropylene
- End Caps: Nylon
- End Caps Insert: 316L Stainless Steel

MURUS Disposable Filter Capsules

- Core: Polypropylene
- Sleeve: Polypropylene
- End Caps Insert: 316L Stainless Steel
- Standard o-rings/gaskets: Silicone
- Capsule Body: Polypropylene
- Capsules Vent Seals: Silicone

DEMICAP Filter Capsules

- Core: Polypropylene
- Sleeve: Polypropylene
- End Caps: Nylon
- Capsule Body: Nylon
- Capsules Vent Seals: Silicone
- Filling Bell: Polycarbonate

Syringe Filters

- Body: Polypropylene

Recommended Operating Conditions

Filter Cartridges

Up to 70 °C (158 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

Temperature		Max. Forward dP	
°C	°F	(bar)	(psi)
20	68	5.0	72.5
40	104	4.0	58.0
60	140	3.0	43.5
80	176	2.0	29.0
90	194	1.7	24.6

MURUS Disposable Filter Capsules

Up to 25 °C (77 °F) @ 5.5 barg (79.7 psig)

Up to 60 °C (140 °F) @ 2.8 barg (40.6 psig)

Parker Hannifin certify that this product complies with the current European Council Pressure Equipment Directive (PED) - Sound Engineering Practice (SEP). This product is intended for use with Group 1 & 2 Dangerous and Harmless Liquids and Group 2 Harmless Gases at the operating conditions stated in this document. The Pressure Equipment Directive mandates that category SEP product cannot bear the CE mark.

DEMICAP Filter Capsules

Up to 40 °C (104 °F) at line pressures up to 5.0 barg (72 psig).

Effective Filtration Area (EFA)

10" (250 mm):	0.55	m ²	(5.92 ft ²)
K Size:	0.26	m ²	(2.79 ft ²)
A Size:	0.20	m ²	(2.15 ft ²)
B Size:	0.10	m ²	(1.07 ft ²)
E Size:	0.05	m ²	(0.53 ft ²)
Syringe ø50 mm:	14.50	cm ²	(2.25 in ²)

Sterilization

	Autoclave		Steam-in-Place	
	Cycles	Temp	Cycles	Temp
			(30 min.)	
Cartridges	10	130 °C (266 °F)	30	130 °C (266 °F)
MURUS	5	130 °C (266 °F)	-	-
DEMICAP10130 °C (266 °F)	-	-	-	-
Syringe	1	130 °C (266 °F)	-	-

PROPOR HC filter cartridges can be sanitized with hot water at up to 90 °C (194 °F) and are compatible with a wide range of chemicals.

For detailed operational procedures and advice on cleaning and sterilization, please contact the Technical Support Group through your usual Parker contact.

Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177 and current USP Plastics Class VI - 121 °C and ISO10993 equivalents.

Quality Standards

Pharmaceutical grade products are manufactured in accordance with cGMP, 100% flushed with pharmaceutical grade purified water and integrity tested prior to despatch. A sample of each lot is tested to demonstrate conformity to validated claims.

Gamma-Irradiation

PROPOR HC MURUS & DEMICAP disposable filters can be gamma-irradiated up to a maximum dosage of 40 kGy.

Performance Characteristics

TOC / Conductivity

The filtrate quality from a 10" (250 mm) PROPOR HC conforms to the requirements of current USP <643> (TOC) and USP <645> (conductivity) within the first 200 ml flush of purified water.

Endotoxins

Aqueous extracts from the 10" (250 mm) PROPOR HC contain < 0.25 EU / ml when tested in accordance with the Limulus Amoebocyte Lysate test.

Non-Volatile Extractables (NVE)

Total NVEs extracted in the first 5 litre flush of purified water for a 10" (250 mm) cartridge are <10 mg.

Total NVEs extracted in the first 5 litre flush of purified water for an A size 7.9" (200 mm) DEMICAP capsule are <5 mg.

Pharmaceutical Validation

A full validation guide is available upon request from Laboratory Services Group (LSG).

Oxidizable Substances

PROPOR HC filter cartridges meet current USP and EP quality standards for sterile purified water for oxidizable substances following a <1 litre water flush.

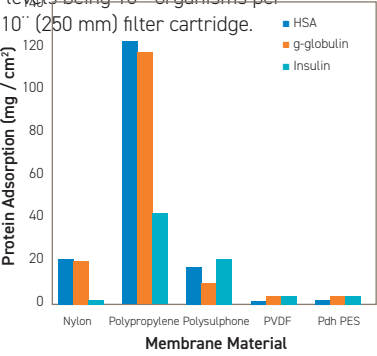
Integrity Test Data

All filters are integrity testable to the following limits when wet with water and using air as the test gas.

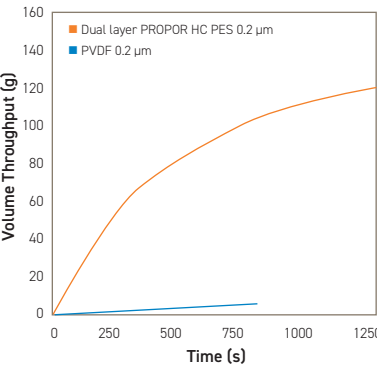
Micron Rating		0.2	0.45
Filter Cartridges / MURUS / DEMICAP / Syringe Filters			
Min. Bubble Point	(barg)	3.4	2.48
	(psig)	49.0	36.0
Filter Cartridges / MURUS / DEMICAP / Syringe Filters			
Diffusional Flow	(barg)	2.8	2.40
Test Pressure	(psig)	40.6	34.8
Filter Cartridges / MURUS / DEMICAP / Syringe Filters			
Max. Diffusional Flow (10" (ml / min)	(K)	18.0	16.0
	(A)	8.4	7.5
	(B)	6.7	-
	(B)	3.2	-
	(E)	1.4	-

Retention Characteristics

PROPOR HC filter cartridges are validated by bacterial challenge testing with *Brevundimonas diminuta* to current ASTM F838 methodology (10⁷ organisms / cm² EFA minimum) with typical in-house challenge levels being 10¹¹ organisms per 10" (250 mm) filter cartridge.



Protein binding on membrane materials



Total volume throughput (g) vs time (s) for an insulin intermediate solution

Ordering Information

Cartridges

ZCHC				-			-			
Code Length (Nominal)			Code Micron		Code Endcap (10")		Code Variant		Code O-rings	
K	5"	(125 mm)	620	0.20 µm	C	BF / 226 Bayonet	P	Pharmaceutical	E	EPDM
1	10"	(250 mm)	645	0.45 µm	D	Fin / 222			S	Silicone
2	20"	(500 mm)							V	Viton
3	30"	(750 mm)								
4	40"	(1000 mm)								

MURUS Capsules

ZLHC				-				-				-				
Code	Length (Nominal)		Code	Micron	Code	Inlet Connection	Code	Outlet Connection	Code	Variant	Code	Grade	Code	Design	Code	O-rings
K	5"	(125 mm)	620	0.20 µm	A	3/4" Tri-Clamp	A	3/4" Tri-Clamp	P	Pharmaceutical	N	Non-sterile	L	In-Line	E	EPDM
1	10"	(250 mm)	645	0.45 µm	B	1 1/2" Tri-Clamp	B	1 1/2" Tri-Clamp			S	Pre-sterilized γ (>25 kGy)	T*	T-Port	S	Silicone
2	20"	(500 mm)			D	1" Hosebarb	D	1" Hosebarb							V	Viton
3	30"	(750 mm)			T	1" Tri-Clamp	T	1" Tri-Clamp								
					H	1/2" Hosebarb	H	1/2" Hosebarb								

*Only available with a 1" Tri-Clamp

DEMICAP Capsules

ZEHC			-				-				-				
Code	Length (Nominal)	Code	Micron	Code	Inlet Connection	Code	Outlet Connection	Code	Variant	Code	Grade	Code	Pack N°	Code	Accessory
E	4.4" (113 mm)	620	0.20 µm	T	1" Tri-Clamp	T	1" Tri-Clamp	P	Pharmaceutical	N	Non-sterile	3	Pack of 3	FB	Filling Bell
B	5.5" (140 mm)	645	0.45 µm	H	1/2" Hosebarb	H	1/2" Hosebarb			S	Pre-sterilized				
A	7.9" (200 mm)			G	Stepped Hosebarb	G	Stepped Hosebarb				γ (>25 kGy)				
E & B-Size G & H connections only															

E & B-Size
G & H connections only

Syringe Filters

ZSHC			-				-					-			
Code Diameter		Code Micron		Code Inlet Connection		Code Outlet Connection		Code Variant		Code Grade		Code Options		Code Pack N°	
050 50 mm		620 0.2 µm		F G Female Luer Lock Stepped Hosebarb		F G Female Luer Lock Stepped Hosebarb		P Pharmaceutical		N Non-sterile		S Standard		025 25 per box	