

# FILTER DATASHEET

## CMI FILTRATION



## Global Delivery and Fulfillment

**The Reliable Company**

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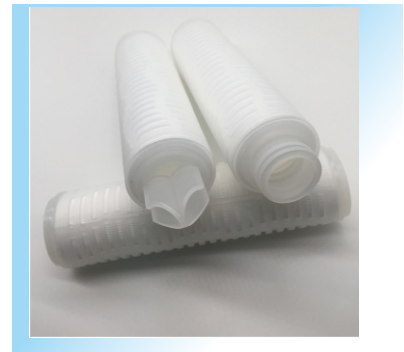


# CMI Membrane Pleated Cartridge

## Polypropylene Membrane Cartridge

### Description

Polypropylene pleated filter cartridge is constructed of micro polypropylene media and nonwoven or silk net support. Adaptors are thermally welded to cartridge without using any glue, so there is no second pollution caused by it. It delivers high efficiency and consistent filtration for wide range of critical applications. Removal of particles from 0.2 to 50 micron, available in both nominal and absolute ratings.



### Features

- Excellent chemical compatibility
- Pleated structure increases filtration area
- Low pressure drop and long service life
- Full range of removal ratings
- Made of high purity polypropylene
- Pleated construction provides high flow rates, low initial Differential pressure and good dirt hold capacity
- Cartridge can be autoclaved for at least 5 times half-hour cycles @ 121°C (250°F)

### Specifications:

**Material:**

Media: Pleated polypropylene

**Inner core, cage, caps, support layer:** polypropylene, Stainless Steel

O-ring: Buna N, EPDM, Viton, Silicone, FEP/Silicone, FEP/Viton

**Micron ratings:** 0.2, 0.5, 1, 5, 10, 25, 50, 100 µm

**Length:** 10inch (254mm), 20inch (508mm), 30inch (762mm), 40inch (1016mm)

**Outside Diameter:** 2.36inch (60mm), 2.48inch (63mm),  
2.56inch (65mm), 2.68inch (68mm)

**Max. differential pressure:**

1.37 bar@93°C (19.9psid@200°F)

2.75 bar@60°C (39.8psid@140°F)

4.81 bar@21°C (69.7psid@70°F)

**Recommended change pressure drop:** 2.1 bar@21°C (30.5psid@70°F)

**Max. Operating Temperature:** 93°C

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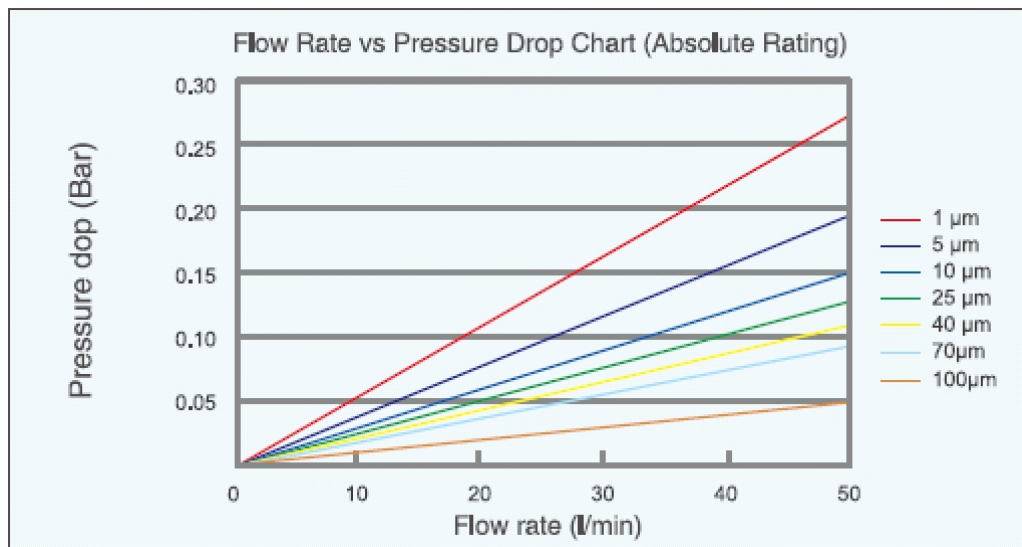
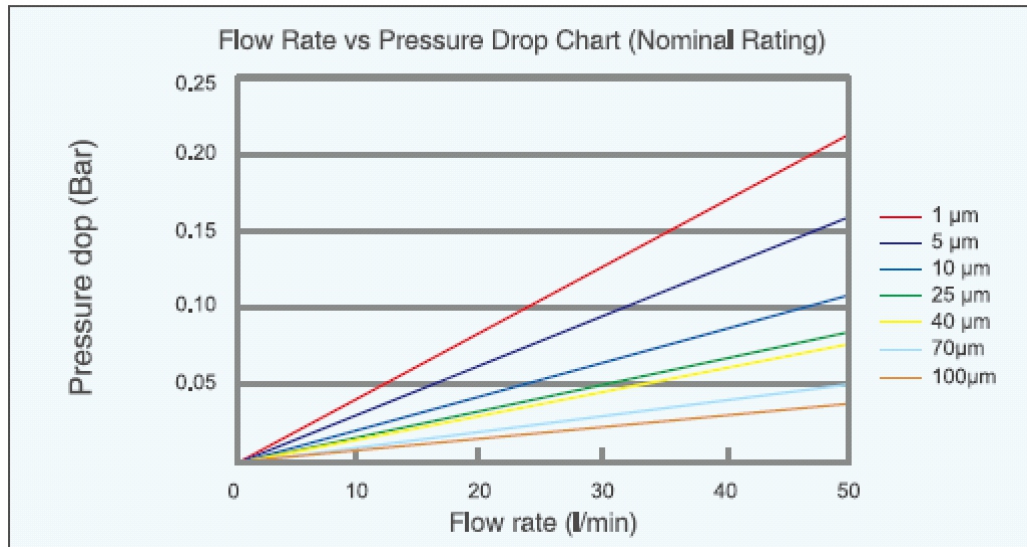


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# CMI Membrane Pleated Cartridge

## Polypropylene Membrane Cartridge

Flow Rate of 10inch, for fluids with a dynamic viscosity of 1m Pa.s @20°C (68°F)



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# CMI Membrane Pleated Cartridge

## Polypropylene Membrane Cartridge

### Ordering Table:

CODE	Media Material	Length	OD	Micron Rating	O-ring Material	End Connections
CMPC	PP- Polypropylene	20-20inch 40-40inch 60-60inch	63-63mm 60-60mm 65-65mm 68-68mm	1-1 $\mu$ m 5-5 $\mu$ m 10-10 $\mu$ m 25-25 $\mu$ m .....	E-EPDM V-Viton B-NBR S-Silicon	D-Double Open End 2-222 flat, single Open End 2F-222 Fin, Single Open End 6-226 flat, single Open End 6F-226 Fin, Single Open End

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# CMI Membrane Pleated Cartridge

## Nylon Membrane Cartridge

### Description

CMI Nylon pleated filter cartridge is constructed of nylon 6.6 membrane, which do not contain any surfactants or wetting agents. This reduces the cleaning time and the cost of the membrane cartridge.

It delivers high efficiency and consistent filtration for wide range of critical applications. Removal of particles from 0.22 to 1 micron, available in both nominal and absolute ratings.



### Features

- Pleated hydrophilic nylon membrane material
- No surfactants or wetting agents
- Low pressure drop and long service life
- Full range of removal ratings
- Pleated construction provides high flow rates, low initial Differential pressure and good dirt hold capacity
- Material acc. to FDA compliance title 21
- Cartridge can be autoclaved for at least 5 times half-hour cycles @ 121 °C (250 °F)
- Various adaptors choices
- 100% integrity test

### Specifications:

#### Material:

Media: Pleated hydrophilic Nylon 6.6 membrane

Inner core, cage, caps, support layer: polypropylene, Stainless Steel

O-ring: Buna N, EPDM, Viton, Silicone, FEP/Silicone, FEP/Viton

**Micron ratings:** 0.22, 0.45, 1µm

**Length:** 10inch (254mm), 20inch(508mm), 30inch(762mm), 40inch(1016mm)

**Outside Diameter:** 2.36inch(60mm), 2.48inch (63mm), 2.56inch(65mm),2.68inch(68mm)

#### Max. differential pressure:

1.37 bar@93 °C (19.9psid@200 °F)

2.75 bar@60 °C (39.8psid@140 °F)

4.81 bar@21 °C (69.7psid@70 °F)

**Recommended change pressure drop:** 2.1 bar@21 °C (30.5psid@70 °F)

**Max. Operating Temperature:**93 °C

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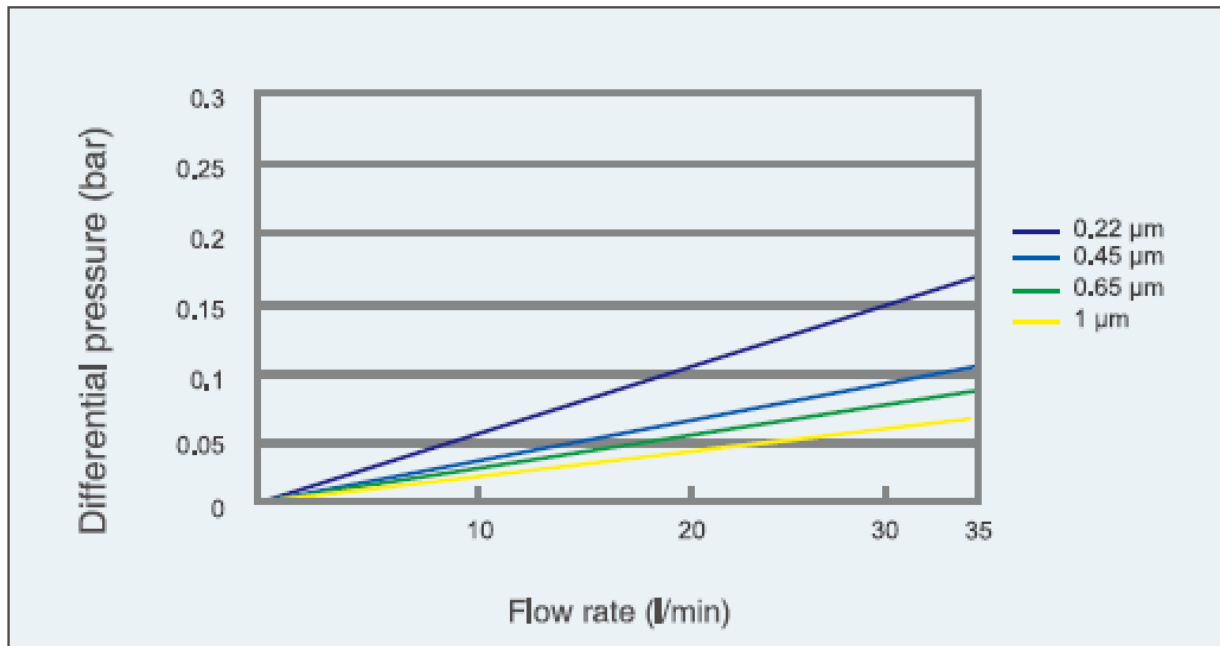


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# CMI Membrane Pleated Cartridge

## Nylon Membrane Cartridge

Flow Rate of 10inch, for fluids with a dynamic viscosity of 1m Pa.s @20°C (68°F)



### Ordering Table:

CODE	Media Material	Length	OD	Micron Rating	O-ring Material	End Connections
CMPC	NY- Nylon	20-20inch	63-63mm	022-0.22µm	E-EPDM	D-Double Open End
		40-40inch	60-60mm	045-0.45µm	V-Viton	2-222 flat, single
		60-60inch	65-65mm	065-0.65µm	B-NBR	Open End
			68-68mm	1-1µm	S-Silicon	2F-222 Fin, Single
				.....		Open End
					6-226 flat, single	
					Open End	
					6F-226 Fin, Single	
					Open End	

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# CMI Membrane Pleated Cartridge

## Polyethersulfone Membrane Cartridge

### Description

CMI PES pleated filter cartridge is constructed of hydrophilic pleated polyethersulfone membrane. The asymmetric structure features a large surface area that allows for superior flow rates and high particle removal efficiency.

It delivers high efficiency and consistent filtration for wide range of critical applications. Removal of particles from 0.22 to 1 micron, available in both nominal and absolute ratings.



### Features

- Asymmetric, hydrophilic pleated polyethersulfone membrane
- No surfactants or wetting agents
- Low pressure drop and long service life
- Pleated construction provides high flow rates, low initial Differential pressure and good dirt hold capacity
- Material acc. to FDA compliance title 21
- Cartridge can be autoclaved for at least 5 times half-hour cycles @ 121°C (250°F)
- Various adaptor choices
- 100% integrity test

### Specifications

**Material:**

Media: Pleated asymmetric, hydrophilic polyethersulfone membrane

**Inner core, cage, caps, support layer:** polypropylene(standard), Stainless Steel

O-ring: Buna N, EPDM, Viton, Silicone, FEP/Silicone, FEP/Viton

**Micron ratings:** 0.04, 0.1, 0.2, 0.45, 0.65, 1.2µm

**Length:** 10inch (254mm), 20inch(508mm), 30inch(762mm), 40inch(1016mm)

**Outside Diameter:** 2.36inch(60mm), 2.48inch (63mm), 2.56inch(65mm), 2.68inch(68mm)

**Max. differential pressure:**

1.67 bar@80°C (24.2psid@176°F)

5.39 bar@21°C (78.2psid@70°F)

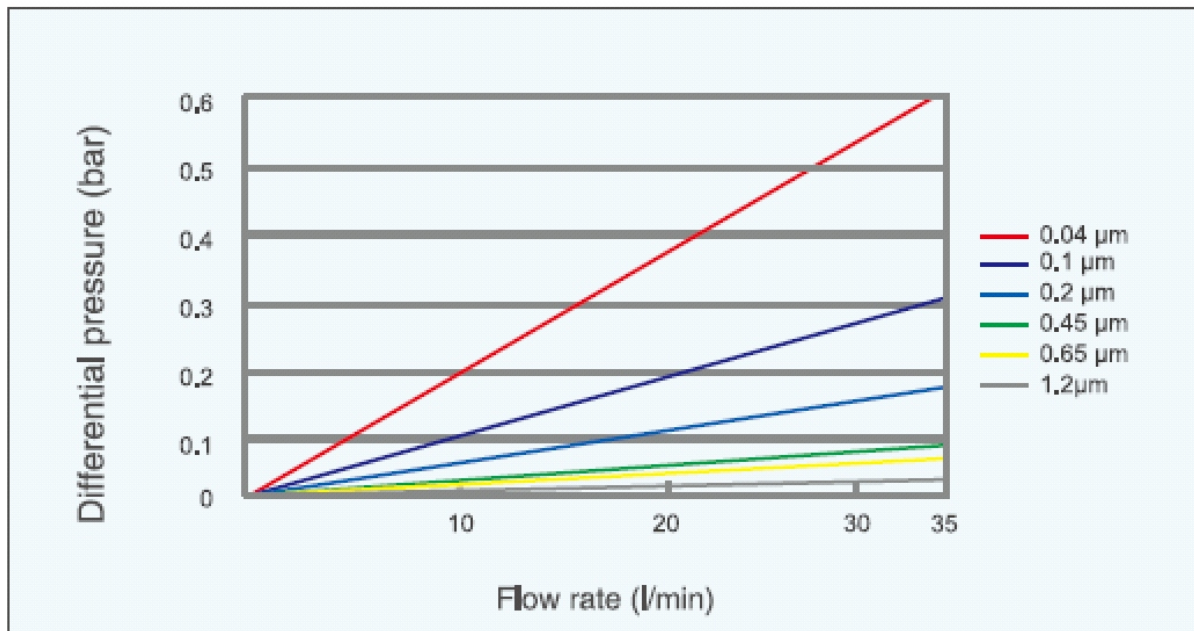
**Recommended change pressure drop:** 2.1 bar@21°C (30.5psid@70°F)



# CMI Membrane Pleated Cartridge

## Polyethersulfone Membrane Cartridge

Flow Rate of 10inch, for fluids with a dynamic viscosity of 1m Pa.s @20°C (68°F)



### Ordering Table:

CODE	Media Material	Length	OD	Micron Rating	O-ring Material	End Connections
CMPC	PES- polyethersulfone	20-20inch	63-63mm	004-0.04μm	E-EPDM	D-Double Open End
		40-40inch	60-60mm	01-0.1μm	V-Viton	2-222 flat, single
		60-60inch	65-65mm	02-0.2μm	B-NBR	Open End
			68-68mm	045-0.45μm	S-Silicon	2F-222 Fin, Single
				065-0.65μm		Open End
				1.2-1.2μm		6-226 flat, single
				.....		Open End
					6F-226 Fin, Single	
					Open End	

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# CMI Membrane Pleated Cartridge

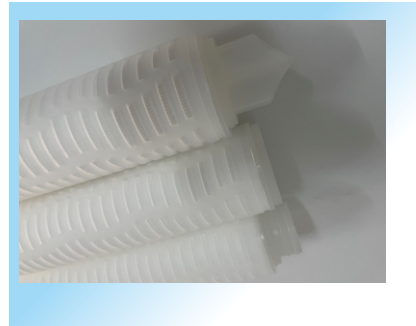
## Hydrophilic PTFE Membrane Cartridge

### Description

CMI hydrophilic PTFE pleated filter cartridge is constructed of hydrophilic pleated polytetrafluoroethylene membrane. It has excellent chemical compatibility and corrosion resistance, and can be widely used for filtration of strong acids and bases in semiconductor industry application. The membrane is hydrophilic which can filter the liquid directly without pre-wetting to save the operation time.

### Features

- Absolute removal ratings >99.9%
- Excellent chemical resistance
- Low pressure drop and long service life
- Pleated construction provides high flow rates, low initial Differential pressure and good dirt hold capacity
- Material acc. to FDA compliance title 21
- Cartridge can be autoclaved for at least 5 times half-hour cycles @ 121°C (250°F)
- Various adaptors choices
- 100% integrity test



### Specifications

#### Material:

Media: hydrophilic pleated polytetrafluoroethylene membrane

**Inner core, cage, caps, support layer:** polypropylene(standard), PFA

O-ring: Buna N, EPDM, Viton, Silicone, FEP/Silicone, FEP/Viton

**Micron ratings:** 0.05, 0.1, 0.22, 0.45, 1µm

**Length:** 10inch (254mm), 20inch(508mm), 30inch(762mm), 40inch(1016mm)

**Outside Diameter:** 2.36inch(60mm), 2.48inch (63mm), 2.56inch(65mm), 2.68inch(68mm)

#### Max. differential pressure:

1.37 bar@93°C (19.9psid@200°F)

5.49 bar@21°C (79.7psid@70°F)

**Recommended change pressure drop:** 2.1 bar@21°C (30.5psid@70°F)

**Max. Operating Temperature:** 93°C (200°F), 185°C (365°F)

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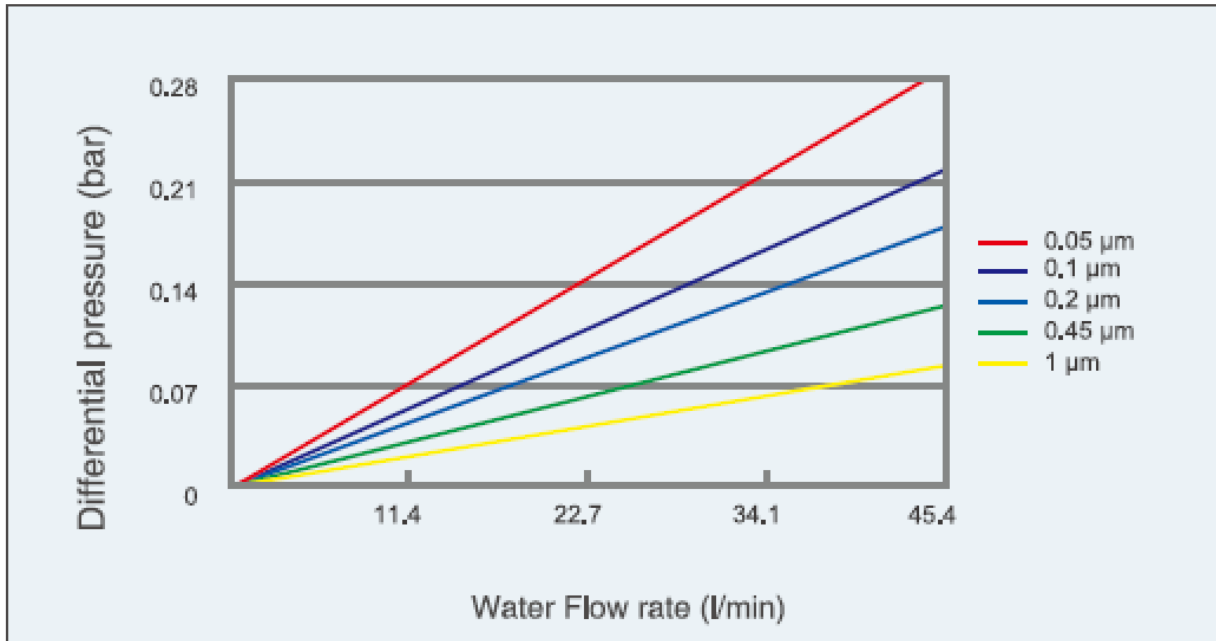


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# CMI Membrane Pleated Cartridge

## Hydrophilic PTFE Membrane Cartridge

Flow Rate of 10inch, for fluids with a dynamic viscosity of 1m Pa.s @20°C (68°F)



### Ordering Table:

CODE	Media Material	Length	OD	Micron Rating	O-ring Material	End Connections
CMPC	IPTFE- hydrophilic PTFE	20-20inch	63-63mm	005-0.05µm	E-EPDM	D-Double Open End
		40-40inch	60-60mm	01-0.1µm	V-Viton	2-222 flat, single
		60-60inch	65-65mm	022-0.22µm	B-NBR	Open End
			68-68mm	045-0.45µm	S-Silicon	2F-222 Fin, Single
				1-1µm		Open End
				.....		6-226 flat, single
						Open End
						6F-226 Fin, Single
						Open End

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# CMI Membrane Pleated Cartridge

## Hydrophobic PTFE Membrane Cartridge

### Description

CMI hydrophilic PTFE pleated filter cartridge is constructed of hydrophobic pleated polytetrafluoroethylene membrane. It has excellent chemical compatibility and corrosion resistance, and can be widely used for filtration of aggressive and oxidative liquid and gas, air filtration, and so on.

### Features

- Absolute removal ratings >99.9%
- Excellent chemical resistance
- Low pressure drop and long service life
- Pleated construction provides high flow rates, low initial Differential pressure and good dirt hold capacity
- Material acc. to FDA compliance title 21
- Cartridge can be autoclaved for at least 5 times half-hour cycles @ 121 °C (250 °F)
- Various adaptors choices
- 100% integrity test



### Specifications

**Material:**

Media: hydrophobic pleated polytetrafluoroethylene membrane

**Inner core, cage, caps, support layer:** polypropylene(standard)

O-ring: Buna N, EPDM, Viton, Silicone, FEP/Silicone, FEP/Viton

**Micron ratings:** 0.1,0.22,0.45,1µm

**Length:** 10inch (254mm), 20inch(508mm), 30inch(762mm), 40inch(1016mm)

**Outside Diameter:** 2.36inch(60mm), 2.48inch (63mm), 2.56inch(65mm),2.68inch(68mm)

**Max. differential pressure:**

1.37 bar@93 °C (19.9psid@200 °F)

5.49 bar@21 °C (79.7psid@70 °F)

**Recommended change pressure drop:** 2.1 bar@21 °C (30.5psid@70 °F)

Max. Operating Temperature:93 °C (200 °F)

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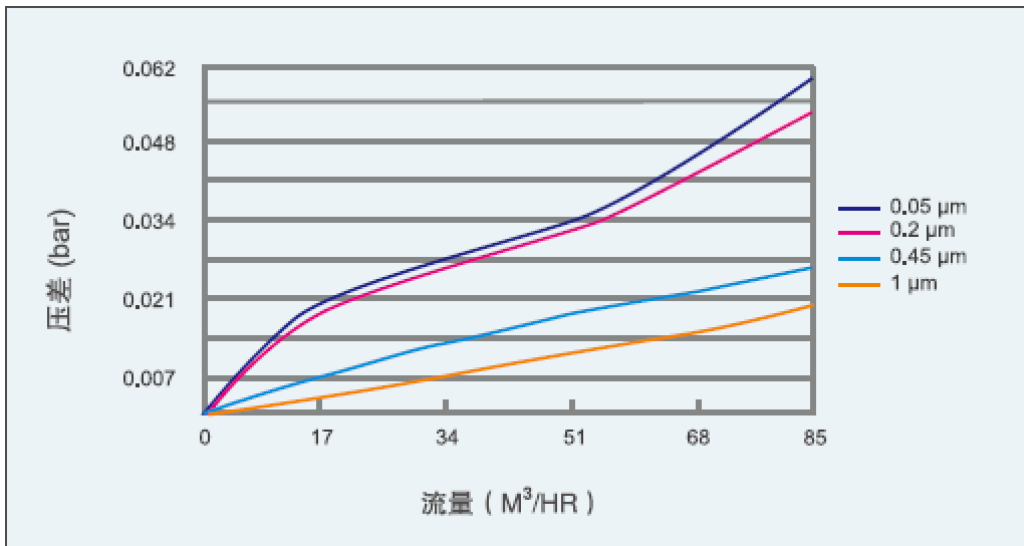


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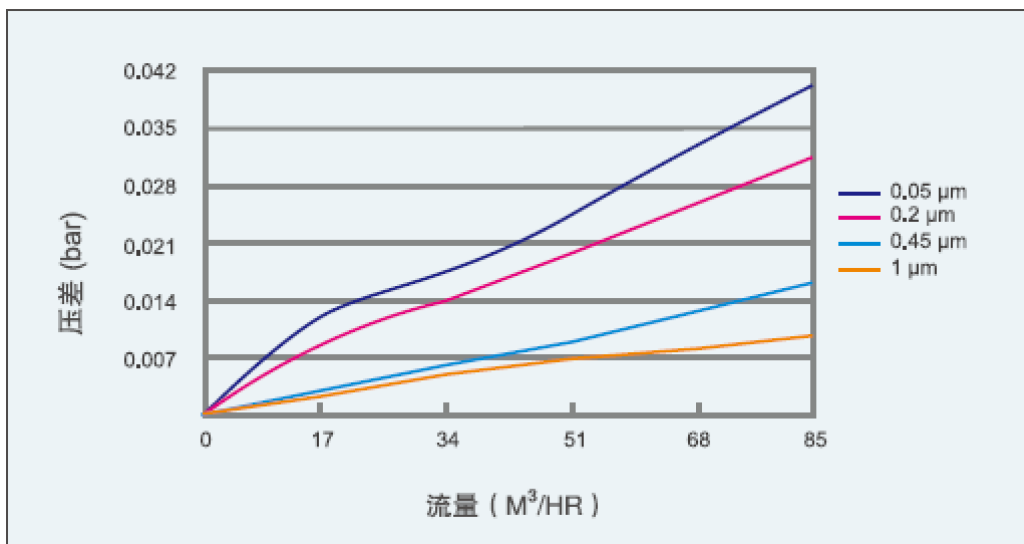
# CMI Membrane Pleated Cartridge

## Hydrophobic PTFE Membrane Cartridge

Air Flow Rate of 10inch, system pressure < 10 psig, @ 18°C (65°F)



Air Flow Rate of 10inch, system pressure = 30 psig, @ 18°C (65°F)



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# CMI Membrane Pleated Cartridge

## Hydrophobic PTFE Membrane Cartridge

### Ordering Table:

CODE	Media Material	Length	OD	Micron Rating	O-ring Material	End Connections
CMPC	OPTFE- hydrophobic PTFE	20-20inch 40-40inch 60-60inch	63-63mm 60-60mm 65-65mm 68-68mm	005-0.05µm 01-0.1µm 022-0.22µm 045-0.45µm 1-1µm  .....	E-EPDM V-Viton B-NBR S-Silicon	D-Double Open End 2-222 flat, single Open End 2F-222 Fin, Single Open End 6-226 flat, single Open End 6F-226 Fin, Single Open End

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