

# PVDF UF-PNS

## INDUSTRIAL WATER FILTRATION

### CP0680A PVDF High Performance Ultrafiltration Module

MODEL	Surface Area (m <sup>2</sup> )	Dimensions (mm)				Weight (kg)
		A	B	C	D	
CP0680A PVDF	44	2260 ± 1	1845 ± 1	275 ± 1	140 ± 1	50

- PVDF based hollow fiber membranes have long lifetime due to their high mechanical strength and chemical resistance.
- The capacity of clean water production is higher due to modification of membranes which enhances the hydrophilicity of membrane.

#### Membrane Specifications:

Model	CP0680A PVDF	
Type	Hollow Fiber Ultrafiltration	
Material	PVDF	
Nominal Pore Size	nm (μ)	30 (0.03)
MWCO	Dalton	100,000
Fiber Bore Diameter (Inner)	mm	0.8
Fiber Bore Diameter (Outer)	mm	1.2
Housing & End Cap (MOC)	UPVC	

#### Module Data:

Membrane Surface Area (Active)	m <sup>2</sup>	44
Outer Diameter Housing	mm	150
Nozzels	mm	Victaulic End DN50
Empty Weight With End caps	kgs	50

#### Operational Data:

Mode of Operation		Out to In (Dead End / Cross Flow)
Operating Flux Range	(lmh)	45-180
Operating Temperature	°C	1-40
Feed Pressure Operating Range	bar	2.0 to 2.5
Feed Pressure Maximum @ 25°C	bar	5
Trans membrane Pressure	bar	0.4-2
pH Range Operation		2.0-11.0
Maximum NaOCl	mg/l	500
Particle Dimension	μ	< 200
Total Suspended Solid (TSS)	ppm	50(max80)
Max Feed Turbidity	NTU	50 (max 250)
Oil & Grease		Nil

#### Performance Details:

Filtrate Flow Range	(m <sup>3</sup> /hr)	1.3 ~ 5
Filtrate SDI		≤2.5
Filtrate Turbidity	NTU	≤0.1
Bacteria Reduction	log	6
Virus Reduction	log	4

#### Process Data:

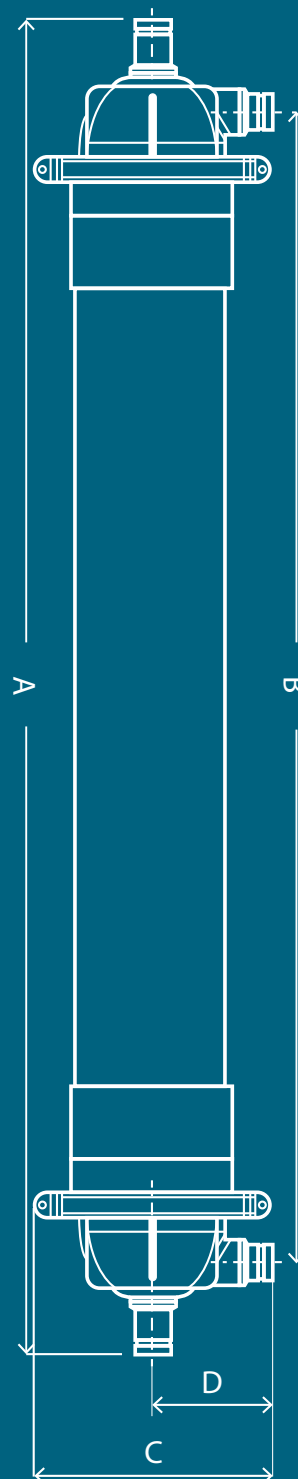
Backwash Flux	lmh	100-150
Backwash Pressure	bar	2.5 max
Air scouring flowrate	Nm <sup>3</sup> /h	5 - 12 (max 15)
Chemically Enhanced Backwash (CEB):		
NaOH	mg/l	500
HCL	mg/l	1000
NaOCl	mg/l	500

#### Note:

Backwash / CEB / CIP frequency & duration shall be as per the design based on the feed water source, quality & fluctuations

#### Important Warnings & Information:

1. For the recommended design range & guide lines, please follow this technical bulletin or call an application specialist. If the operating limits given in this product in formation bulletin are not strictly followed, the warranty will be null and void.
2. The customer is fully responsible for the effects of chemicals that are incompatible with the membrane modules.



# PVDF UF-PNS

## INDUSTRIAL WATER FILTRATION

### CP0440A PVDF High Performance Ultrafiltration Module

MODEL	Surface Area (m <sup>2</sup> )	Dimensions (mm)		Weight (kg)
		A	B	
CP0440A PVDF	8	1125 ± 1	920 ± 1	7

- PVDF based hollow fiber membranes have long lifetime due to their high mechanical strength and chemical resistance.
- The capacity of clean water production is higher due to modification of membranes which enhances the hydrophilicity of membrane.

#### Membrane Specifications:

Model	CP0440A PVDF	
Type	Hollow Fiber Ultrafiltration	
Material	PVDF	
Nominal Pore Size	nm (μ)	30 (0.03)
MWCO	Dalton	100,000
Fiber Bore Diameter (Inner)	mm	0.8
Fiber Bore Diameter (Outer)	mm	1.2
Housing & End Cap (MOC)	UPVC	

#### Module Data:

Membrane Surface Area (Active)	m <sup>2</sup>	8
Outer Diameter Housing	mm	100
Nozzels	mm	Victaulic End DN25
Empty Weight With End caps	kgs	7

#### Operational Data:

Mode of Operation	Out to In (Dead End / Cross Flow)	
Operating Flux Range	(lmh)	45-180
Operating Temperature	°C	1-40
Feed Pressure Operating Range	bar	2.0 to 2.5
Feed Pressure Maximum @ 25°C	bar	5
Trans membrane Pressure	bar	0.4-2
pH Range Operation	2.0-11.0	
Maximum NaOCl	mg/l	500
Particle Dimension	μ	< 200
Total Suspended Solid (TSS)	ppm	50(max80)
Max Feed Turbidity	NTU	50 (max 250)
Oil & Grease	Nil	

#### Performance Details:

Filtrate Flow Range	(m <sup>3</sup> /hr)	0.5 ~ 1.2
Filtrate SDI		≤2.5
Filtrate Turbidity	NTU	≤0.1
Bacteria Reduction	log	6
Virus Reduction	log	4

#### Process Data:

Backwash Flux	lmh	100-150
Backwash Pressure	bar	2.5 max
Air scouring flowrate	Nm <sup>3</sup> /h	0.9 - 2 (max 2)
Chemically Enhanced Backwash (CEB):		
NaOH	mg/l	500
HCL	mg/l	1000
NaOCl	mg/l	500

#### Note:

Backwash / CEB / CIP frequency & duration shall be as per the design based on the feed water source, quality & fluctuations

#### Important Warnings & Information:

1. For the recommended design range & guide lines, please follow this technical bulletin or call an application specialist. If the operating limits given in this product in formation bulletin are not strictly followed, the warranty will be null and void.
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