

# CoMem<sup>®</sup> Conduit - 146mm diameter

The high flux asymmetric silicon carbide (SiC) membrane is designed for removal of suspended solids from solution. The tightest membranes reject bacteria and other microorganisms and the virus count is reduced by several orders of magnitude. The elements have permeate conduits which facilitate permeate removal. This means that the element may be operated in cross flow mode and in dead-ended mode with fast forward flush.

## Products and Guidelines

CoMem <sup>®</sup> Model	Channel dimension	Membrane Area	Element Dimensions		Feed flow at 3 m/s
			A (mm)	B (mm)	
xx is pore size	mmxmm	m <sup>2</sup>	A (mm)	B (mm)	m <sup>3</sup> /h
Conduit - 146-300-(2*2)-xx	2x2	3,5	146 ±1	300 ±1	60
Conduit - 146-865-(2*2)-xx	2x2	10,2	146 ±1	865 ±1	60
Conduit - 146-300-(5*5)-xx	5x5	1,4	146 ±1	300 ±1	65
Conduit - 146-865-(5*5)-xx	5x5	4,2	146 ±1	865 ±1	65

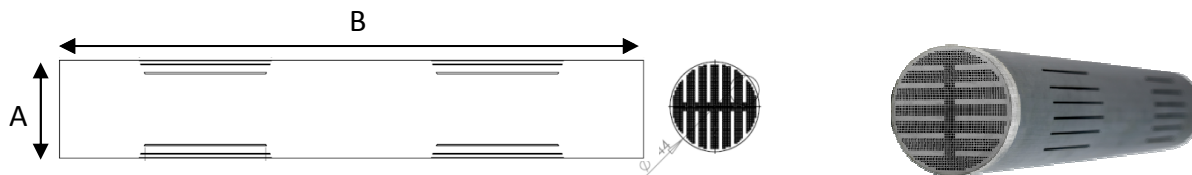
Nominal Pore size		Nominal MWCO	Typical water flux at 25°C On non-fouling water @ 1bar
40 nm	0,04 µm	100 kD	3 m <sup>3</sup> /(m <sup>2</sup> h)
100 nm	0,1 µm	200 kD	4 m <sup>3</sup> /(m <sup>2</sup> h)
1000 nm	1 µm	N.A	10 m <sup>3</sup> /(m <sup>2</sup> h)
3000 nm	3 µm	N.A	>10 m <sup>3</sup> /(m <sup>2</sup> h)

### Element

Configuration:	Cylindrical with square channels
Membrane material:	Silicon carbide (SiC)
Substrate material:	Silicon carbide (SiC)
Temperature tolerance:	Up to 800°C
Maximum pressure:	Unknown, over 100 bar

### Application Data

Operating pressure:	Max 10 bar; normally less than 5 bar
Maximum operating temperature:	Determined by system components
Maximum chlorine concentration:	Unlimited
pH tolerance:	0 – 14
Cleaning:	Chlorine, acid, caustic, solvents
Maximum negative TMP:	3 bar



**Notice:** Elements are delivered dry. Handle with care since the material is brittle. CoMeTas believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. CoMeTas assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of CoMeTas' products for the user's specific end uses. Specifications are subject to change without notice. N 01/25/10