ABCOR® - INDUCOR™ MODULE: 12-HFM-251-ICV

Industrial Multitubular Ultrafiltration Module

PRODUCT DESCRIPTION

Part Number (KPN)	0712510
Membrane Chemistry:	PVDF
Membrane Type:	HFM (neutral charge)
Membrane Area:	45.5 ft^2 (4.2 m^2)
Molecular Weight Cut-Off:	100,000 Dalton (nominal)
Construction:	Thirty (30) ½" diameter tubules in a PVC shell
Face Plate:	ABS
Gasket:	VITON®

OPERATING & DESIGN INFORMATION*

Maximum inlet pressure:	90 psi @ 119 °F (6.2 bar @ 48 °C)
Maximum operating temperature:	122°F (50 °C) at 84 psi max
Maximum permeate side back pressure:	3 psi (0.2 bar)
Minimum outlet pressure:	5 psi (0.3 bar)
Maximum feed side pressure drop:	7.5 psi @ 119 °F (0.5 bar @ 48 °C)
Allowable pH - Continuous Exposure:	2.0 – 10.0 @ 119 °F (48 °C)
Allowable pH - Short Term Exposure:	1.5 – 10.5 @ 119 °F (48 °C)

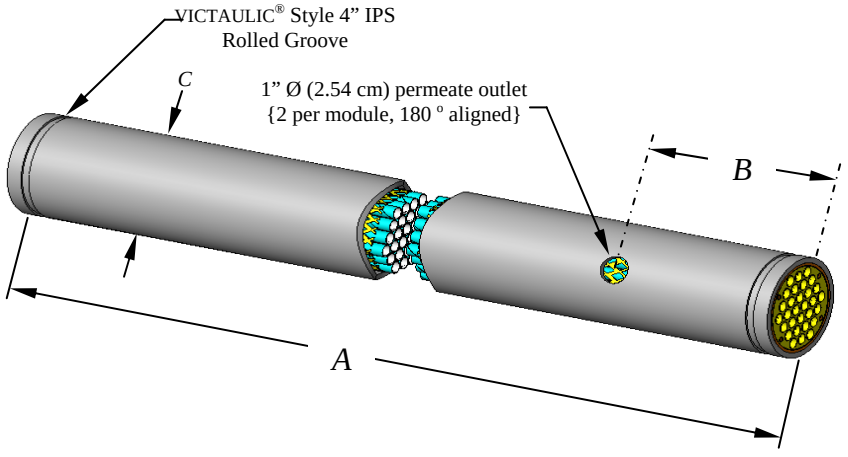
* Consult with Industrial Process Technology Group for specific applications.

FEED FLOW VS. PRESSURE DROP*

Circulation Flow		Crossflow Velocity		Pressure Drop	
gpm	m^3/hr	f/s	m/s	psi	bar
175	40	9	2.7	4.8	0.34
200	45	11	3.4	6.0	0.40
225	51	12	3.7	7.2	0.50

* Data based on water at 77° F and specific gravity of 1.0.

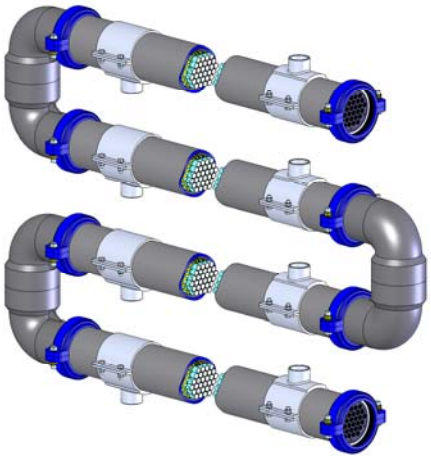
NOMINAL DIMENSIONS



A	B	C
Inches (mm)	**Inches (mm)**	**Inches (mm)**
144 (3658)	8 (203.2)	4½ (114.3)

ANCILLARY PARTS

KMS recommends that these membranes be used with KMS supplied ancillary parts. Sealing is provided by o-rings and gaskets. No additional sealing compound or tape is recommended for use on threaded connections.

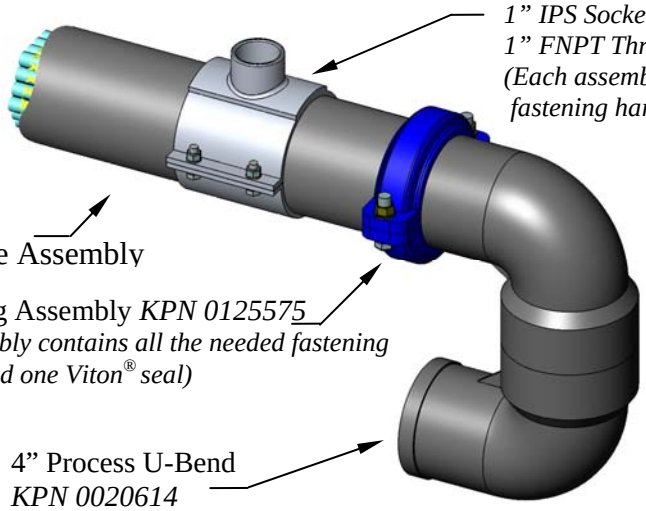


INDUCOR™ Module Process Pass Kits

One Process Pass Kit contains;
- Two Permeate Port Saddle Assemblies
- Two 4" Coupling Assemblies

Available in two styles of Permeate Port Saddle:
- *1" IPS Socket Style Pass Kit KPN 0211875*
- *1" FNPT Threaded Style Pass Kit KPN 0211885*

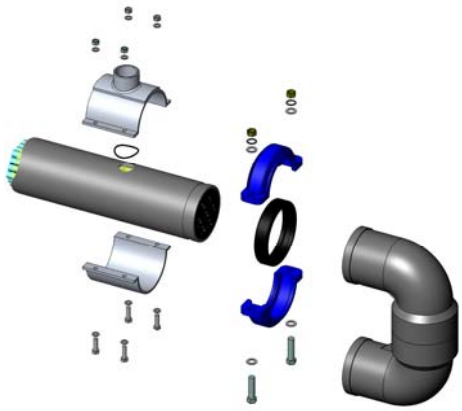
Permeate Port Saddle Assembly
1" IPS Socket Style KPN 0020616
1" FNPT Threaded Style KPN 0020618
(Each assembly contains all the needed fastening hardware and one Viton® o-ring)



Module Assembly

4" Coupling Assembly *KPN 0125575*
(Each assembly contains all the needed fastening hardware and one Viton® seal)

4" Process U-Bend
KPN 0020614



MEMBRANE INCOMPATIBILITY

Prior to exposing the membrane to any chemical, the chemical should be reviewed by Koch Membrane Systems. Aside from the listed chemicals below, synthetic coolants, semi-synthetic coolants, kerosenes, naphtha, gasoline, floc polymers may affect membrane performance.

Chemicals that should be avoided include the following:
- Aprotic Solvent (e.g., Dimethyl Formamide, Dimethyl Acetamide, N-Methyl Pyrolidine, etc.)
- Chlorinated Solvents (e.g., Methylene Chloride, Chloroform, Carbon Tetrachloride, etc.)
- Ketones (e.g., Acetone, Diacetone Alcohol, etc.)
- Silicones or Silicone based Defoamers (e.g., Siloxane)