



# ABCOR<sup>®</sup> - INDUCOR<sup>™</sup>-G MODULE: 10-HFM-251-ICV

*Industrial Multitubular Ultrafiltration Module*

**PRODUCT DESCRIPTION**

Part Number (KPN)	0712501
Membrane Chemistry:	PVDF
Membrane Type:	HFM (neutral charge)
Membrane Area:	15.4 ft <sup>2</sup> (1.4 m <sup>2</sup> )
Molecular Weight Cut-Off:	100,000 Dalton (nominal)
Construction:	Seven (7) 1" diameter tubules in a PVC shell
Face Plate:	ABS
Gasket:	VITON <sup>®</sup>

**OPERATING AND 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:	6.6 psi @ 119 °F (0.4 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)

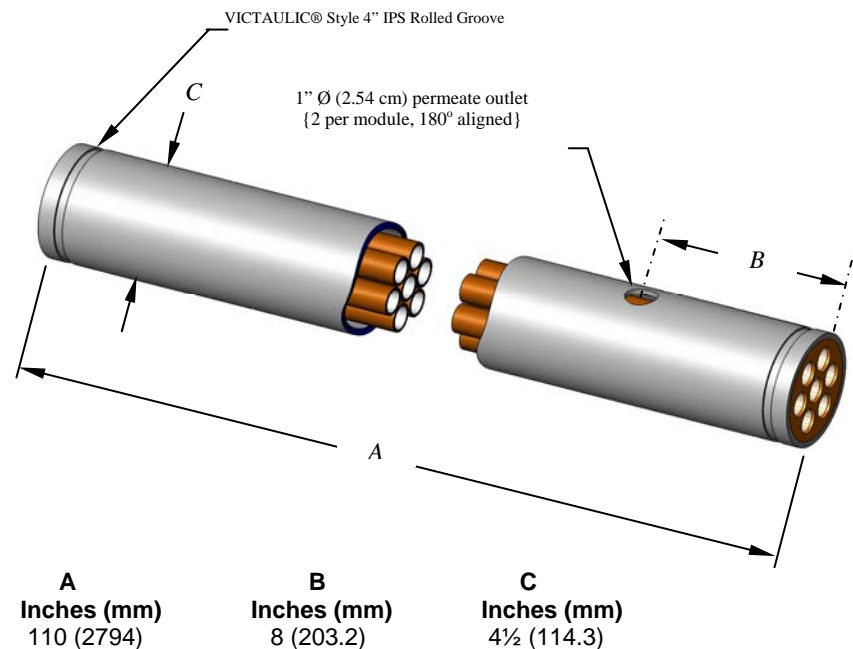
\* Consult KMS Industrial Process Technology Group for specific applications.

**FEED FLOW VS. PRESSURE DROP\***

Circulation Flow	Crossflow Velocity		Pressure Drop		
	gpm	m <sup>3</sup> /hr	f/s	m/s	psi
133	30	7.8	2.4	2.0	0.14
210	48	12.3	3.7	4.3	0.29
266	60	15.5	4.7	6.0	0.41

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

**NOMINAL DIMENSIONS**



### 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.

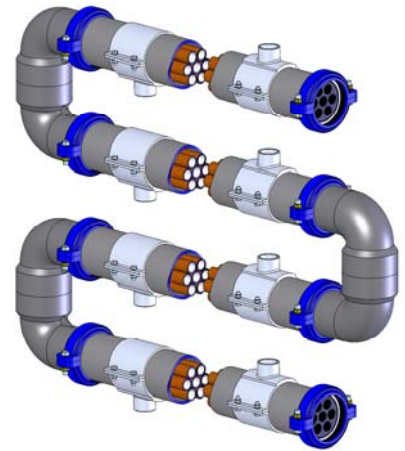
### INDUCOR™-G Module Process Pass Kits

- 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

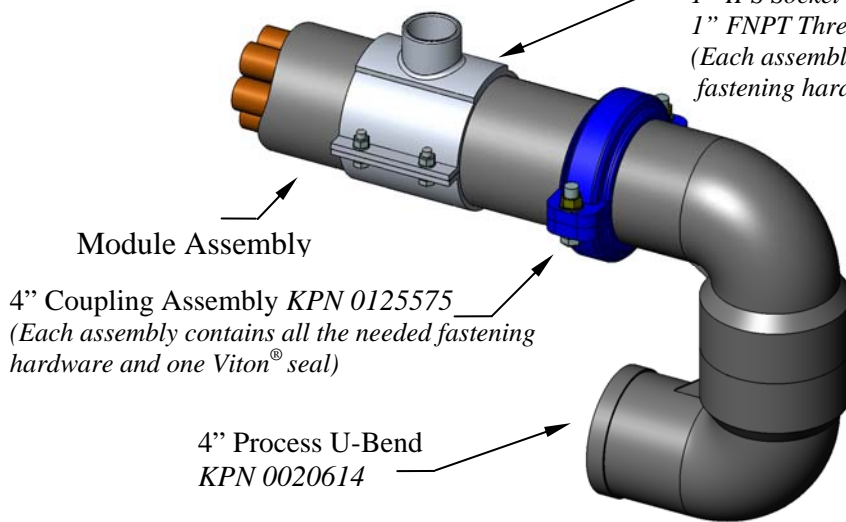


#### Permeate Port Saddle Assembly

1" IPS Socket Style KPN 0020616

1" FNPT Threaded Style KPN 0020618

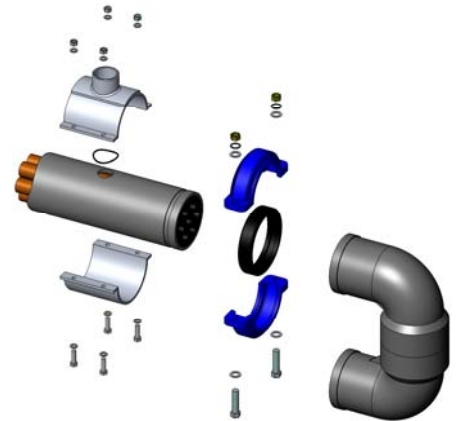
(Each assembly contains all the needed fastening hardware and one Viton® o-ring)



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)

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**LENNTECH**

info@lennotech.com Tel. +31-152-610-900

www.lennotech.com Fax. +31-152-616-289