

# INDU-COR™-G Module: 10-HFM-251-ICV

## Industrial Multitubular Ultrafiltration Module

### PRODUCT DESCRIPTION

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

### OPERATING AND DESIGN INFORMATION\*

<b>Maximum Inlet Pressure:</b>	90 psi @ 119 °F (6.2 bar @ 48 °C)
<b>Maximum Operating Temperature:</b>	122°F (50 °C) at 84 psi max
<b>Maximum Permeate Side Back Pressure:</b>	3 psi (0.2 bar)
<b>Minimum Outlet Pressure:</b>	5 psi (0.3 bar)
<b>Maximum Feed Side Pressure Drop:</b>	6.6 psi @ 119 °F (0.4 bar @ 48 °C)
<b>Allowable pH - Continuous Exposure:</b>	2.0 – 10.0 @ 119 °F (48°C)
<b>Allowable pH - Short Term Exposure:</b>	1.5 – 10.5 @ 119 °F (48°C)

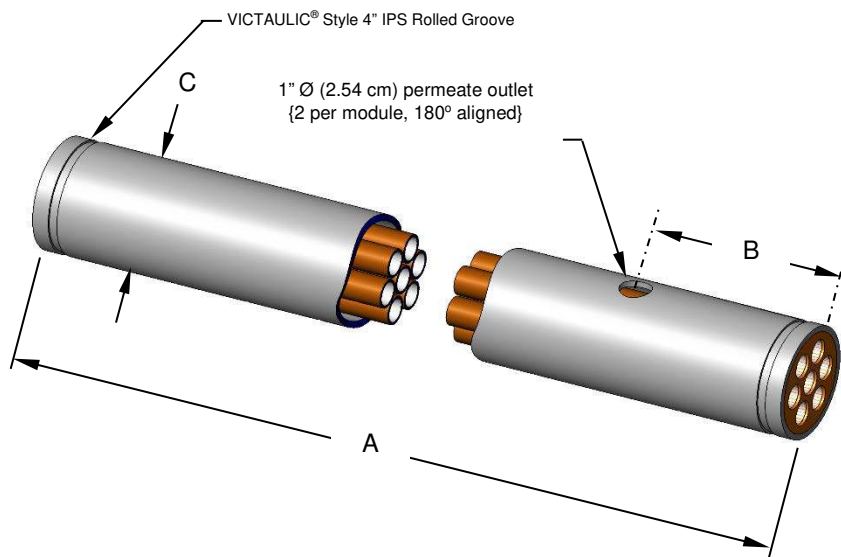
\*Consult KSS Process Technology Group for specific applications.

### FEED FLOW VS. PRESSURE DROP\*

Circulation Flow		Crossflow Velocity		Pressure Drop	
gpm	(m <sup>3</sup> /hr)	f/s	m/s	psi	bar
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



A		B		C	
inches	(mm)	inches	(mm)	inches	(mm)
110	(2794)	8	(203.2)	4 ½	(114.3)

OPERATING GUIDELINES

**Ancillary Parts**

KSS recommends that these membranes be used with KSS 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

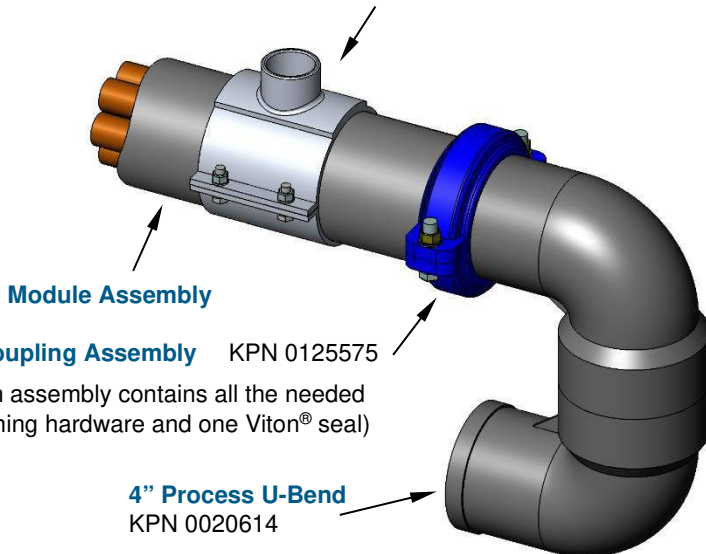
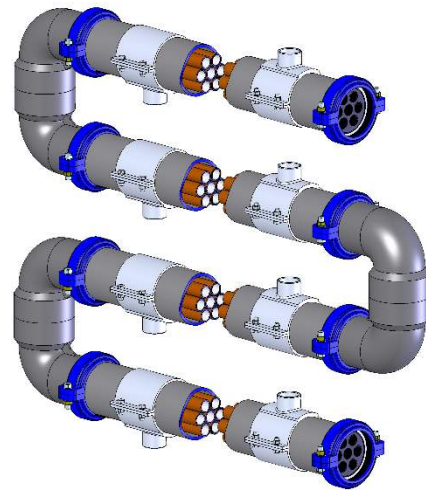
**Available in two styles of Permeate Port Saddle:**

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

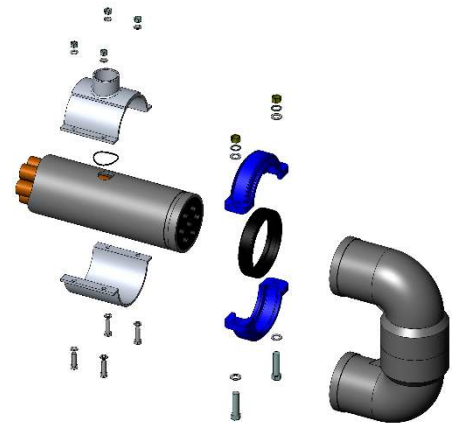
(Each assembly contains all the needed fastening hardware and one Viton® o-ring)



**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 Separation Solutions. 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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