Coflore ATR®
Accessories Brochure
<table>
<thead>
<tr>
<th>Individual Gaskets and Seals</th>
<th>Reactor Tube Seal Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1/2” triclover gasket</strong></td>
<td><strong>0.35 mL Reactor Tube Seal Kits</strong></td>
</tr>
<tr>
<td>PTFE envelope gasket</td>
<td>ATR-2.8L-SEAL KIT</td>
</tr>
<tr>
<td><strong>Material:</strong> PTFE</td>
<td>4 sets of gaskets for ATR-2.8L</td>
</tr>
<tr>
<td>Viton (non-wetted)</td>
<td>Components Include:</td>
</tr>
<tr>
<td>For use with 0.35 L &amp; 1.25 L reactor tubes</td>
<td>64 x 1/2” triclover gasket</td>
</tr>
<tr>
<td></td>
<td>104 x 1” triclover gasket</td>
</tr>
<tr>
<td></td>
<td><strong>Material:</strong> PTFE</td>
</tr>
<tr>
<td></td>
<td>Viton (non-wetted)</td>
</tr>
<tr>
<td><strong>1” triclover gasket</strong></td>
<td><strong>1.25 mL Reactor Tube Seal Kits</strong></td>
</tr>
<tr>
<td>PTFE envelope gasket</td>
<td>ATR-2.5L-SEAL KIT</td>
</tr>
<tr>
<td><strong>Material:</strong> PTFE</td>
<td>4 sets of gaskets for ATR-2.5L</td>
</tr>
<tr>
<td>Viton (non-wetted)</td>
<td>Components Include:</td>
</tr>
<tr>
<td>For use with 0.35 L &amp; 1.25 L reactor tubes</td>
<td>16 x 1/2” triclover gasket</td>
</tr>
<tr>
<td></td>
<td>12 x 1” triclover gasket</td>
</tr>
<tr>
<td></td>
<td>16 x 1 1/2” triclover gasket</td>
</tr>
<tr>
<td></td>
<td><strong>Material:</strong> PTFE</td>
</tr>
<tr>
<td></td>
<td>Viton (non-wetted)</td>
</tr>
<tr>
<td><strong>1 1/2” triclover gasket</strong></td>
<td>4 sets of gaskets for ATR-5L</td>
</tr>
<tr>
<td>PTFE envelope gasket</td>
<td>Components Include:</td>
</tr>
<tr>
<td><strong>Material:</strong> PTFE</td>
<td>32 x 1/2” triclover gasket</td>
</tr>
<tr>
<td>Viton (non-wetted)</td>
<td>20 x 1” triclover gasket</td>
</tr>
<tr>
<td>For use with 1.25L reactor tube</td>
<td>32 x 1 1/2” triclover gasket</td>
</tr>
<tr>
<td></td>
<td><strong>Material:</strong> PTFE</td>
</tr>
<tr>
<td></td>
<td>Viton (non-wetted)</td>
</tr>
</tbody>
</table>
### ATR Accessories

<table>
<thead>
<tr>
<th>ATR-Cabinet</th>
<th>ATR Accessories (cont.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ATR Acoustic Cabinet</strong>&lt;br&gt;Size: 1200mm W, 780mm D, 1800mm H&lt;br&gt;Material: 304 Stainless steel</td>
<td><strong>ATR-BSP4-SS</strong>&lt;br&gt;4mm triclover adaptor&lt;br&gt;Adapts 1/2” triclover to 1/4” BSP thread&lt;br&gt;4mm through hole.&lt;br&gt;Can be used with 1/4” BSP injection plug&lt;br&gt;Material: 316 Stainless steel&lt;br&gt;Connections: 1/2” triclover&lt;br&gt;1/4” BSP female&lt;br&gt;Ø 4mm through hole</td>
</tr>
<tr>
<td>Provide containment for handling hazardous compounds. With fume extract connection and removable window panels for viewing and accessing the reactor tube assembly.</td>
<td></td>
</tr>
</tbody>
</table>

### ATR-TP-Ha

| ATR thermowell: Hastelloy<br>T type thermocouple calibrated -40 to 200°C<br>Wetted Material: Hastelloy C276<br>Thermowells incorporate a T-type Thermocouple with miniature plug. | **ATR-PLUG-INJ**<br>1/4” BSP injection plug<br>For use with 4mm triclover adaptor<br>Adapts from 1/4” BSP to ¼-28 UNF<br>Operating range:<br>Pressure: up to 10 Bar<br>Material: PTFE, 316 Stainless steel (non-wetted)<br>Connections: 1/4” BSPP male<br>¼-28 UNF female |

### Process Tube Fittings – Hose-barb Fittings

| ATR-BSP4-Ha<br>4 mm triclover adaptor<br>Adapts 1/2” triclover to 1/4” BSP thread<br>4mm through hole.<br>Can be used with 1/4” BSP injection plug<br>Material: Hastelloy C276<br>Connections: 1/2” triclover<br>1/4” BSP female<br>Ø 4mm through hole | **P-646**<br>Soft tubing connectors for use with peristaltic pump tubing and;<br>1/4” BSP Injection plug ATR-PLUG-INJ<br>Material: ETFE<br>Connections: ¼-28 UNF Male |

<table>
<thead>
<tr>
<th>ATR-PLUG-INJ</th>
<th>ATR Accessories (cont.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Swagelok Fitting

**Swagelok tube connectors for use with PTFE/Stainless steel tubing.**

**Material:**
- Fitting: 316 Stainless Steel
- Washer: Stainless steel, Viton

**Component Includes:**
- Compression fitting
- Bonded washer

### ATR-BSP9.5-Ha

- 9.5 mm triclover adaptor
- Adapts 1/2" triclover to 1/4" BSP thread
- 9.5mm through hole

**Material:**
- Hastelloy C276

**Connections:**
- 1/2" triclover
- 1/4" BSP female
- Ø 9.5mm through hole

### ATR-BSP9.5-SS

- 9.5mm triclover adaptor
- Adapts 1/2" triclover to 1/4" BSP thread
- 9.5mm through hole

**Material:**
- 316 Stainless steel

**Connections:**
- 1/2" triclover
- 1/4" BSP female
- Ø 9.5 mm through hole

### Omnifit Fitting

**ATR-PLUG-INJ**

- ¼" BSP injection plug
  - For use with 4mm triclover adaptor
  - Adapts from 1/4" BSP to ¾-28 UNF

**Operating Range:**
- Pressure: up to 10 Bar

**Material:**
- PTFE, 316 Stainless steel (non-wetted)

**Connections:**
- 1/4" BSPP male
- ¾-28 UNF female

### XP-283

- Omnifit connectors for use with 1/16" PTFE tubing and;
- ¼" BSP injection plug
  - ATR-PLUG-INJ

**Material:**
- Gripper body: PEEK
- Ferrule: PTFE

**Connections:**
- ¼-28 UNF Male

### XP-335

- Omnifit connectors for use with 1/8" PTFE tubing and;
- ¼" BSP injection plug
  - ATR-PLUG-INJ

**Material:**
- Gripper body: PEEK
- Ferrule: PTFE

**Connections:**
- ¼-28 UNF Male
<table>
<thead>
<tr>
<th>ATR Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ATR-HB-SS</strong></td>
<td>Hose barb adaptor&lt;br&gt;Adapts from 1/2” triclover to hose barb&lt;br&gt;&lt;b&gt;Material:&lt;/b&gt; 316 Stainless steel&lt;br&gt;&lt;b&gt;Connections:&lt;/b&gt; 1/2” triclover, 4.8 mm ID hose barb</td>
</tr>
<tr>
<td><strong>ATR-HB-Ha</strong></td>
<td>Hose barb adaptor&lt;br&gt;Adapts from 1/2” triclover to hose barb&lt;br&gt;&lt;b&gt;Material:&lt;/b&gt; Hastelloy C276&lt;br&gt;&lt;b&gt;Connections:&lt;/b&gt; 1/2” triclover, 4.8 mm ID hose barb</td>
</tr>
<tr>
<td><strong>ATR-H-2000</strong></td>
<td>ATR inlet/outlet hose&lt;br&gt;&lt;b&gt;Size:&lt;/b&gt; 9.5 mm ID x 2000 mm PTFE braided hose&lt;br&gt;&lt;b&gt;Operating Range:&lt;/b&gt; Pressure: up to 50 Bar&lt;br&gt;&lt;b&gt;Material:&lt;/b&gt; 316 Stainless steel (non-wetted) &amp; PTFE&lt;br&gt;&lt;b&gt;Connections:&lt;/b&gt; 1/2” triclover&lt;br&gt;Custom sizes available on request</td>
</tr>
</tbody>
</table>
### ATR Accessories (cont.)

**SXV Solids Handling Valve**

#### Coflore SXV (Solids X Valve)
For diverting recycled fluid into the reactor

<table>
<thead>
<tr>
<th>Material:</th>
<th>Hastelloy C276</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions:</td>
<td>130 mm x 130 mm x 70 mm</td>
</tr>
<tr>
<td>Connections:</td>
<td>4 off ½” Swagelok tube connection</td>
</tr>
</tbody>
</table>

#### SXV Coflore SXV (Solids X Valve)
For diverting recycled fluid into the reactor

<table>
<thead>
<tr>
<th>Material:</th>
<th>316 Stainless steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions:</td>
<td>130 mm x 130 mm x 70 mm</td>
</tr>
<tr>
<td>Connections:</td>
<td>4 off ¾” Swagelok tube connection</td>
</tr>
</tbody>
</table>

### ACR Reactor Block Assembly

**ATR-ACR Reactor Assembly**

#### Coflore ACR Reactor Block Assembly for the ATR
For fitting the ACR reactor block assembly to the ATR agitating platform

<table>
<thead>
<tr>
<th>Material:</th>
</tr>
</thead>
</table>

### 316 Stainless steel

**Includes:**

- ACR-100-Ha
- ACR Reactor Block Assembly
- Hastelloy Cell Block

**Operating Range:**
Pressure: Up to 10 Bar
Temperature: -40 to +140 °C

**Wetted Material:**
- Cell Block: Hastelloy C276
- Gasket: PTFE
- O-ring: FFKM
- Glass Window: Borosilicate Glass
- Heat Exchange plate: Hastelloy C276

<table>
<thead>
<tr>
<th>Dimensions:</th>
<th>300 mm H x 100 mm W x 55 mm D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass:</td>
<td>9 Kg</td>
</tr>
<tr>
<td>Cell diameter:</td>
<td>25 mm</td>
</tr>
<tr>
<td>Interstage Channel:</td>
<td>4mm x 4mm x 30 mm</td>
</tr>
<tr>
<td>Capacity:</td>
<td>100ml Nominal</td>
</tr>
</tbody>
</table>

**Connections:**
- Inlet/Outlet: 1/8” BSPP Female
- Side port: 1/4” BSPP Female

**Components Include:**
- 1 x Process flange
- 1 x Reactor Cell Block: Hastelloy
- 1 x HTF Flange
- 1 x Mounting plate
- 10 x Glass Window
- 10 x Window Gasket
- 1 x Process Gasket
- 2 x Process connection gasket
- 2 x Process connection
- 10 x ¼” BSP Blank plug
- 1 x Process O-ring
- 1 x HTF O-ring
- 10 x HTF Agitator
- 2 x Heat transfer hoses
### ATR Accessories (cont.)

#### ATR Tool Kit

**Components include:**
- 1 x tool bag
- 1 x Allen key set
- 1 x 14 mm ratchet spanner
- 2 x adjustable spanner
- 1 x pliers

#### Service and Maintenance Kits

**ATR-Service Kit-EX**

Service and maintenance kit for the ATR

**ATEX Zone IICT4**

Components include:
- 1 x Solenoid Valve Assembly
- 4 x Pneumatic Actuator
- 4 x Agitation Springs

Some of the agitating platform components have a limited life cycle. The solenoid valve assembly, pneumatic actuator and agitation springs should be replaced according to the following schedule:

- **Infrequent use** (less than 1 day per week): Replace at user’s discretion
- **Frequent use** (2-3 days per week): Replace every 12 months
- **Continuous use** (5 days per week): Replace every 6 months
- **Continuous use** (7 days per week): Replace every 4 months

In the event of the need to replace solenoids, actuators or agitation springs, **please contact** AM Technology.

### ATR-Service Kit

Service and maintenance kit for the ATR

**Components include:**
- 1 x Solenoid Valve Assembly
- 4 x Pneumatic Actuator
- 4 x Agitation Springs

Some of the agitating platform components have a limited life cycle. The solenoid valve assembly, pneumatic actuator and agitation springs should be replaced according to the following schedule:

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