# DIRECT INFUSION ACCESSORIES DATASHEET

COMPOSITE INTEGRATION

| PA85 General Purpose Peel Ply<br>Product Number: DI-MPA85/1630 | PA80 Economic Peel Ply<br>Product Number: DI-PA80/1560 | PA80 AD Adhesive Peel Ply<br>Product Number: DI-MPAAD80B0100 |
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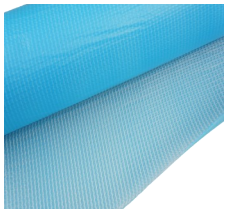
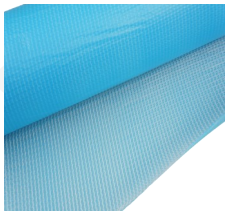
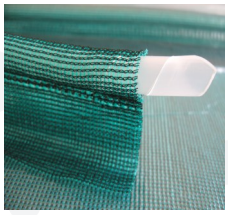
| High tenacity standard peel ply, designed to be used on epoxy, vinylester and polyester composite systems.<br>Not recommended for phenolic systems. Maximum operating temperature of 200°C. | High tenacity economic peel ply designed to be used on epoxy and polyester composite systems. Not recommended for phenolic systems. The fabric leaves a fine surface impression for priming and secondary bonding. Maximum operating temperature of 200°C. | High tenacity standard and economic one side adhesive peel ply designed to used on epoxy and polyester composite systems. The fabric simplifies the implementation of peel ply on vertical surface or on dry fibres. Maximum operating temperature of 200°C. |
| **DIANET Net Bleeder<br>Product Number: DI-FDIANET135I** | **PP40 Release Film<br>Product Number: DI-FIPP40P1/160** | **Infuplex DIANET 135 Net Bleeder with Release Film<br>Product Number: DI-INFUPLEX-DI/145** |
|  |  |  |
| Knitted net bleeder with high porosity, allowing good air and resin flow. Recommended for large part and high-speed flow infusion processes, with polyester, vinylester or epoxy resins. Maximum operating temperature of 200°C. | Perforated release film 1.6 m wide, allows excess resin and can be used for high temperature infusion processes up to 160°C. Recommended for use in Direct Infusion using polyester or epoxy resins. | Multi-layer material consisting of a release film with net bleeder on top, combined into a two layer unit.<br>Recommended for use in Direct Infusion processes with a maximum temperature of 90°C. |
| **DIADRAIN Flat Resin or Vacuum Channel<br>Product Number: DI-FDIADRAIN050** | **DIADRAIN Microporous Flat Vacuum Channel with Peel Ply<br>Product Number:<br>DI-FDIADRAIN050MP** | **Spiral Net Resin Channel<br>Product Number:<br>DI-SPIRALNET-OM70-12/14** |
|  |  |  |
| Consists of a three-dimensional polyester filament core structure wrapped in a non-woven polyester sleeve. 50 mm in length. The material works as a resin supply or vacuum channel in the Direct Infusion process. | 50 mm in length. Designed to stop excess resin as it reaches the material for higher quality finish. Can be placed around a mould instead of spiral pipe during the Direct Infusion process. | Consists of a mesh material with a spiral tube in order to optimise the resin distribution and avoid the marking of the laminate of a mould.<br>Recommended to be used in the Direct Infusion process. |



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| Translucent Spiral Tubing<br>Product Number:<br>DI-ACIGSPIR12-14PE | Vacuum Bagging Film — 2 m wide<br>Product Number: DI-FIPO120/0200 | Vacuum Bagging Film — 4 m wide<br>Product Number: DI-FIPO120/0400 |
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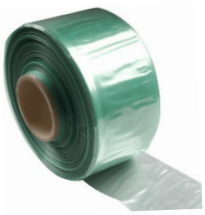
| 12 mm ID x 14 mm OD clear tubing used as a vacuum channel in vacuum infusion processes.<br>Very flexible material which is easy to cut to size. | Advanced copolymer vacuum film, non-porous and styrene resistant which can be used in direct contact with resin.<br><br>To be used for either VRTM or Infusion processes up to 120°C, allowing moulding of complex forms. | Advanced copolymer vacuum film, non-porous and styrene resistant which can be used in direct contact with resin.<br><br>To be used for either VRTM or Infusion processes up to 120°C, allowing moulding of complex forms. |
| **High Temperature Vacuum Bagging Film — 2 m wide<br>Product Number: DI-FIPA205-50/0200** | **LSM6000 Sealant Tape<br>Product Number: DI-MESM6000** | **High Temperature Vacuum Bagging Tape<br>Product Number: DI-SM5127** |
|  |  |  |
| High temperature vacuum bagging film, non-porous and styrene resistant with considerable heat stability. Maximum operating temperature of 205°C.<br>To be used for either VRTM or Infusion processes, recommended for advanced composite fabrication. | Economic sealant tape recommended for room temperature applications and able to undergo exothermic temperature up to 90°C.<br><br>Designed for use on composite or metallic tools for infusion processes. | Economic sealant tape recommended for high temperature cures up to 205°C.<br><br>Designed for use on composite or metallic tools for infusion processes. |
| **High Temperature Polyester Film Tape<br>Product Number: DI-RAPES063S0025** | **Clear Polyurethane Pipe 12 mm OD<br>Product Number:<br>DI-ACTUB-PEHD10-12** | **Clear Polyurethane Pipe 15 mm OD<br>Product Number: MH-80-1015** |
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| 25 mm (wide) film tape coated with high performance silicone adhesive, used for securing vacuum bagging film in place. | High density pipe 10 mm ID x 12 mm OD used as a resin distributor or vacuum line. | High density pipe 12 mm ID x 15 mm OD used as a resin distributor or vacuum line. |



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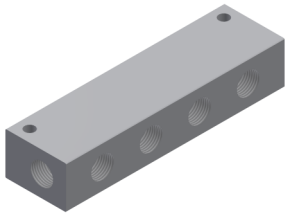
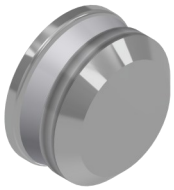
| Large Pipe Cutters<br>Product Number: CO-80-0003 | Infusion Manifold<br>Product Number: MP-43-1212-04 | 1/2" BSP Stem Adaptor<br>Product Number: MP-04-0815 |
|---|---|---|
|  <br>Large pipe cutters for easy cutting of pipes and reinforced PVC hoses. |  <br>Manifold with 2 x 1/2" BSPF inlet and 4 x 1/2" BSPF outlet ports.<br>Designed to connect to a single outlet from a Ciject® machine and enables multiple inlets to be connected to large infusion moulds. |  <br>1/2" BSP x 15 mm plastic/delrin adaptor.<br>Used as a connector to link multiple manifolds if required, to create more outlets in an infusion set-up. |
| **1/2" BSP Blanking Plug<br>Product Number: MP-46-0012** | **12 mm Straight Adaptor<br>Product Number: MP-01-1212-JG** | **15 mm Straight Adaptor<br>Product Number: MP-01-1512-JG** |
|  <br>1/2" BSP mild steel blanking plug used to seal outlets on the manifold when not in use. |  <br>1/2" BSP straight adaptor for the manifold.<br>Designed to convert 1/2" BSP thread to a 12 mm metric pipe, connecting the manifold outlet to 12 mm nylon pipe. |  <br>1/2" BSP straight adaptor for the manifold.<br>Designed to convert 1/2" BSP thread to a 15 mm metric pipe, connecting the manifold outlet to 15 mm nylon pipe. |
| **15 mm — 12 mm Reducer<br>Product Number: MP-08-1512-JG** | **15 mm Elbow Push Fitting<br>Product Number: MP-05-1515** | **10 mm Tee Fitting (for 12 mm OD Pipe)<br>Product Number: DI-ACIT10PP** |
|  <br>A reducer push fitting designed to convert a 15 mm metric pipe connection down to 12 mm.<br>Used to connect different sized metric pipe to support different infusion configurations. |  <br>A 15 mm tee fitting which joins two equal sized pipe connections to form a 90° pipe bend. |  <br>A 10 mm tee fitting which joins three equal sized metric pipe connections.<br>To be used with 12 mm OD pipe (DI-ACTUB-PEHD10-12). |



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| 12 mm Tee Push Fitting<br>Product Number: MP-06-0012-JG | 15 mm Tee Push Fitting<br>Product Number: MP-06-0015-JG | 15 mm Isolation Valve Fitting<br>Product Number: MP-59-0106 |
|---|---|---|
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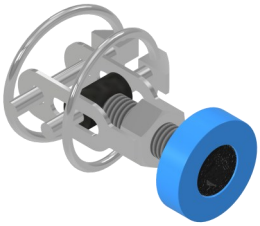
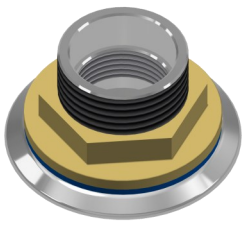
| A 12 mm tee push fitting which joins three equal sized metric pipe connections.<br>Used in conjunction with an IMPS adaptor (XA-0036-12) to link in-mould pressure sensors (IMPS) to the infusion set-up. | A 15 mm tee push fitting which joins three equal sized metric pipe connections.<br>Used in conjunction with an IMPS adaptor (XA-0036) to link in-mould pressure sensors (IMPS) to the infusion set-up. | A shut off valve with 15 mm push fit connections on both sides.<br>An alternative method to inline clamps, designed to improve shutting of feed lines and flow regulations. |
| **Reusable Inline Clamp<br>Product Number: MP-85-0015** | **12 mm IMPS Adaptor<br>Product Number: XA-0036-12** | **15 mm IMPS Adaptor<br>Product Number: XA-0036** |
|  |  |  |
| Reusable clamp mechanism designed to shut off resin feed lines by compressing the pipe lines.<br>An alternative method to the isolation valve fitting, designed to improve shutting off feed lines and flow regulation. | Adaptor for an in-mould pressure sensor (IMPS).<br>Fitting coverts 12 mm metric pipe to 3/4" BSP female thread to connect IMPS to the infusion set-up. | Adaptor for an in-mould pressure sensor (IMPS).<br>Fitting converts 15 mm metric pipe to 3/4" BSP female thread to connect IMPS to the infusion set-up. |
| **Vacuum Bag IMPS Insert<br>Product Number: XE-0056-99-001** | **12 mm DIADRAIN Fitting<br>Product Number:<br>DI-ACPRISE-INFUSION10MM** | **12 mm Flat Insert<br>Product Number:<br>DI-ACINFUSION50/PLUG12** |
|  |  |  |
| Stainless steel insert for an in-mould pressure sensor (IMPS).<br>Insert comes with O-ring, seal and lock-nut for connecting and securing a sensor through a vacuum bag. | 12 mm infusion fitting for use with Diadrain microporous material (DI-FDIADRAIN050MP) as a vacuum channel. | 12 mm insert used for direct infusion. Situated underneath vacuum bagging film, the insert is used to connect 12 mm pipe through the vacuum bag to create a resin feed. |



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| 12 mm Spiral Insert<br>Product Number:<br>DI-ACIGSPIR12-14/PLUG12 | In-Mould Pressure Sensor (IMPS) Readout Unit<br>Product Number: XE-0053 | In-Mould Pressure Sensor (IMPS)<br>Product Number: XE-0050-008 |
|---|---|---|
|  |  |  |
| 12 mm insert used in direct infusion.<br>For use with spiral wrap, the insert is situated underneath vacuum bagging film and connects to 12 mm pipe through the vacuum bag to create a resin feed line. | IMPS Readout Unit engineered to provide sensor power and display pressure readings in bar. Monitors pressure conditions inside the mould, providing accurate and reliable real-time pressure data. Compatible for use with RTM, VRTM and Direct Infusion processes. | 0 to 4 bar (ABS) in-mould pressure sensor designed to provide in-mould feedback control to CIJECT® injection/infusion machines.<br>Used with either 12 mm or 15 mm IMPS adaptors: XA-0036-12 or XA-0036. |
| **3 m IMPS Lead Assembly<br>Product Number: XE-0060-05** | **10 m IMPS Lead Assembly<br>Product Number: XE-0060-06** | **25 m IMPS Lead Assembly<br>Product Number: XE-0060-07** |
|  |  |  |
| 3 m sensor cable used to connect an in-mould pressure sensor (IMPS) to an IMPS Readout Unit.<br>Connectors include 3–pin IMPS plug to 6–pin MIL-spec socket. Maximum operating temperature of 80°C. | 10 m sensor cable used to connect an in-mould pressure sensor (IMPS) to an IMPS Readout Unit.<br>Connectors include 3–pin IMPS plug to 6–pin MIL-spec socket. Maximum operating temperature of 80°C. | 25 m sensor cable used to connect an in-mould pressure sensor (IMPS) to an IMPS Readout Unit.<br>Connectors include 3–pin IMPS plug to 6–pin MIL-spec socket. Maximum operating temperature of 80°C. |



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