Cooling Manifold

- no loss in pressure due to long hoses or too many flow meters
- efficient parallel moldcooling with shorter cycle times
- easily install and group cooling connections and hoses
- in- and outlets can be connected separately
- hose lengths can be reduced, enabling the molder to work with lower pressure in the system
- cooling manifold can be installed horizontally and vertically
COOLING MANIFOLD

Info

- One piece Aluminium Extrusion Anodized
- Corrosion resistant / No Welds
- Standard Inlets: 1 ½” (2 included per system)
- Predrilled Mounting Holes
- Red / Blue Marking plate Included
- Specials upon demand

Variants

- **Double option**
  - On side of the mold/machine
- **Double option**
  - On top of mold/machine
- **Single option**
  - (Upon request)

Info

- **Velocity of cooling water**
- **Cooling water temperature**

```
<table>
<thead>
<tr>
<th>Cooling time (s)</th>
<th>0</th>
<th>0.5</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
<th>2.5</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>m/s</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>9</td>
<td>8</td>
<td>7</td>
<td>6</td>
</tr>
</tbody>
</table>

\[ T_{\text{water}} = 20°C \]

\[ S=1,5\text{mm} \]

\[ X=25\text{mm} \]

\[ Y=15\text{mm} \]

```

```
<table>
<thead>
<tr>
<th>Cooling time (°C)</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>9</td>
<td>8</td>
<td>7</td>
</tr>
</tbody>
</table>

\[ S=1,5\text{mm} \]

\[ X=25\text{mm} \]

\[ Y=15\text{mm} \]

```

- **Parallel**
  - High flow
  - Low pressure loss
- **Serial**
  - Low flow
  - High pressure loss

www.diemouldequipment.com.au
Tel 1800 224 135
COOLING MANIFOLD

Example

<table>
<thead>
<tr>
<th>For use</th>
<th>Y/Z</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nipple/plug</td>
<td>1/4” / 3/8” M14×1,5</td>
<td>2750 mm</td>
</tr>
<tr>
<td>Nipple/plug</td>
<td>1/2” / M16×1,5</td>
<td>3300 mm</td>
</tr>
<tr>
<td>Nipple/plug</td>
<td>3/4” / M24×1,5</td>
<td>4125 mm</td>
</tr>
<tr>
<td>Valves</td>
<td>upon request</td>
<td>Minimum 50 when using collector valves with handle</td>
</tr>
</tbody>
</table>

- Number of holes per row
- Thread upper row "Y"
- Thread lower row "Z"
- Distance "X"
- Total length manifold

Example:

<table>
<thead>
<tr>
<th>COLM REF</th>
<th>2x7</th>
<th>3/8</th>
<th>3/8</th>
<th>33</th>
<th>268</th>
</tr>
</thead>
<tbody>
<tr>
<td>N° holes</td>
<td>Thread Y</td>
<td>Thread Z</td>
<td>X</td>
<td>Total Length</td>
<td></td>
</tr>
</tbody>
</table>

How to order*

Standard accessories available

- Collector Valve with Handle ½”
  REF: CVH12
  For use with X= 41.5 mm
- GK Extension Brass ½”
  Length 50 mm
  REF: GKMF12
  To be used for second row
- FLOW METER with Mechanical Regulation
  BSP ½” (Female) - BSP ¾” (Male)
  Hexagonal: SW19
  Full Length: 81 mm
  Flow capacity: 2 - 8 lt/min
  Temperature Range: +0°C - +100 °C
  Working Pressure: max 10 Bar
  Springs: Stainless Steel
  Indicator Plastic Seals: Buna
  Article number: FM 1234

* Upon request

mandATORY info to be supplied by customer

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