Compact hydraulic actuation
increasing freedom in mold design:
HEM miniature hydraulic
**KEY DATA**

**Compact hydraulic actuator**
- a) For nozzles in the DF 5, 8, 12, 18, 22 and 25 series
- b) Screwed onto the manifold
- c) Valve gate adjustable from behind
- d) Piston stroke occurs entirely within the casing
- e) Patented, improved thermal separation of manifold and cylinder
- f) For either rear installation directly adjacent to the mold plate or with spacing
- g) Actuator casing can be dismantled without unscrewing the cooling lines
- h) Cooling line outlets possible in 4 different directions
- i) **HEM without cooling**
  - → for max. 270°C melt temperature and 60°C mold temperature
  - → for rear installation directly adjacent to the mold plate only

**BENEFITS**

**Production and assembly**
- Smaller milling areas, less production effort required
- Increased freedom in mold design
- Easy-access and adjustable

**Operation**
- Protects movable parts and seals through thermal separation from manifold
- No post-production aftercooling needed
- Enhanced mold stability
- Injection points can be individually selected within a confined space

**Single valve gate applications → j)**
- Possible alternative
- Standard one-port manifold system can be used
- Only small distance between inlet bushing and nozzle

**Multi-cavity molds → k)**
- Small pitch dimensions and tighter cavity spacing possible
- Higher numbers of cavities possible
- Use of hydraulics where there was once no room
- Ready-to-go pre-assembled systems possible

**Molds for large plastic parts → l)**
- Greater flexibility in selection of gate points
- Sufficient space for supply lines
- Combinable with large and long nozzles

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<table>
<thead>
<tr>
<th>Actuator</th>
<th>HEM 5/8/12</th>
<th>HEM 18/22/25</th>
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</thead>
<tbody>
<tr>
<td>Stroke</td>
<td>8,5</td>
<td>14,5</td>
</tr>
<tr>
<td>K</td>
<td>71</td>
<td>95</td>
</tr>
<tr>
<td>XA (^1)</td>
<td>37 37 43 52</td>
<td>58 75</td>
</tr>
<tr>
<td>XE (^1)</td>
<td>38 38 43 55</td>
<td>62 69</td>
</tr>
<tr>
<td>Valve pin Ø</td>
<td>2.5 3 5</td>
<td>8 8 8</td>
</tr>
</tbody>
</table>

1) Minimum values, which must be adjusted to the relevant application