The hydraulic guide pillar is an externally hardened pillar with an integrated hydraulic cylinder. This way, loads coupled with the piston rod can be precisely guided and moved without straining the cylinder with side loads.

With the hydraulic guide pillar, two functions can be realised with one structural element while saving space at the same time: the linear movement of a hydraulic cylinder and the exact guide of a round pillar. Very high guide forces can be transmitted thanks to the hardened surface of the guide pillar.

**Design**
- Single-rod cylinder with cushioning on both sides

**Configurations**
- Sealing system of the cover: Servocop®
  - PU/NBR for hydraulic oil up to 100°C
  - PU+/NBR for HFC up to 60°C
  - FKM for temperatures up to 200°C

**Quality of piston rod**
- 20MnV6 chrome-plated and honed
- 42CrMo4V hardened, chrome-plated and honed

**Mounting**
- Cylinder: Rectangular flange, cap-side,
  - Piston rod: Female thread

**Hydraulic ports**
- in acc. with ISO 228
  - Connection position: cap and head side or both integrated on cap-side

**Guide pipe**
- Exterior: hardened surface layer 52 HRC,
  - optionally chrome-plated
  - Interior: honed
<table>
<thead>
<tr>
<th>Piston Ø</th>
<th>Flange</th>
<th>UF</th>
<th>E</th>
<th>TF</th>
<th>VF</th>
<th>R</th>
<th>PF</th>
<th>CO -0,1</th>
<th>KF</th>
<th>FB</th>
<th>p max.</th>
<th>Item</th>
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<td>130</td>
<td>155</td>
<td>122</td>
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<td>-</td>
<td>160 bar</td>
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<td>160 bar</td>
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</tr>
</tbody>
</table>

* EE head side additionally in cap-side flange

** Differing stroke and installation length