**Application/customer benefits**
- Actuation of EXTRA large through hole power chucks
- Clamping of very big and long components

**Technical features**
- Short design / low mass / low power consumption
- Pressure range 8–30 bar
- EXTRA large through hole
- Horizontal installation only
- Mounting from the front side into tapped holes
- A 10 µm filter in pressure line is requested
- Use Oil HM32 ISO 3448

**Standard equipment**
Open center hydraulic cylinder with coolant collector CP1
Bracket for proximity switches
(for stroke control)
Without proximity switch and mounting bolts

**Ordering example**
Open center hydraulic cylinder
VSG 450-165
or
Open center hydraulic cylinder
VSG 550-205

---

**Dimensions**

<table>
<thead>
<tr>
<th>SMW-AUTOBLOK Type</th>
<th>Id. No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>K</th>
<th>S</th>
<th>T</th>
<th>U</th>
<th>W</th>
<th>f</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSG 450-165</td>
<td>33094130</td>
<td>305</td>
<td>240</td>
<td>280</td>
<td>6 x M16</td>
<td>345</td>
<td>M175 x 3</td>
<td>185</td>
<td>290</td>
<td>6</td>
<td>165</td>
<td>50</td>
<td>162</td>
<td>51</td>
<td>35</td>
<td>85</td>
</tr>
<tr>
<td>VSG 550-205</td>
<td>33094135</td>
<td>350</td>
<td>280</td>
<td>320</td>
<td>6 x M20</td>
<td>390</td>
<td>M215 x 3</td>
<td>228</td>
<td>314</td>
<td>6</td>
<td>204</td>
<td>50</td>
<td>200</td>
<td>51</td>
<td>35</td>
<td>85</td>
</tr>
</tbody>
</table>

**Technical data**

<table>
<thead>
<tr>
<th>SMW-AUTOBLOK Type</th>
<th>Piston area Pull cm²</th>
<th>Push cm²</th>
<th>Max. Druck bar</th>
<th>Draw pull (at 25 bar) kN</th>
<th>Oil leakage* dm³/min.</th>
<th>Max. speed r.p.m.</th>
<th>Weight kg</th>
<th>Moment of inertia kg m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSG 450-165</td>
<td>460</td>
<td>350</td>
<td>30</td>
<td>115</td>
<td>9</td>
<td>2000</td>
<td>100</td>
<td>1.4</td>
</tr>
<tr>
<td>VSG 550-205</td>
<td>550</td>
<td>405</td>
<td>30</td>
<td>137</td>
<td>10</td>
<td>1600</td>
<td>135</td>
<td>2.4</td>
</tr>
</tbody>
</table>

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* Total at 30 bar / 50 °C / max. speed / oil HM32 ISO 3448.

**Important:** On higher pressure the leakage increases proportionally. On higher oil temperature the leakage increases over proportionally. (the use of an oil cooler is recommended). When designing/checking the hydraulic unit please ask for our data sheets.