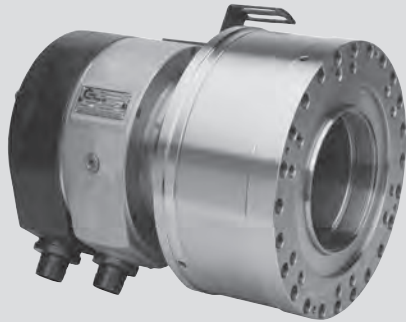


- up to 30 bar
- EXTRA LARGE THROUGH HOLE Ø 165 - 204 mm
- stroke control via proximity switch or linear positioning system

Open center  
rotating hydraulic cylinder



## Application/customer benefits

- Actuation of EXTRA LARGE THROUGH HOLE power chucks
- Clamping of very big and long components

## Technical features

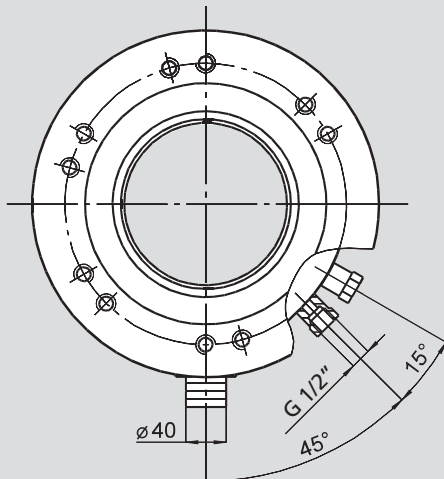
- Short design/low mass/low power consumption
- Pressure range 8–30 bar
- EXTRA LARGE THROUGH HOLE
- Horizontal installation only
- Mounting from the front side into tapped holes
- A 10 µm filter in pressure line is requested
- Oil viscosity: 2.5–3 °E at 50 °C

## Standard equipment

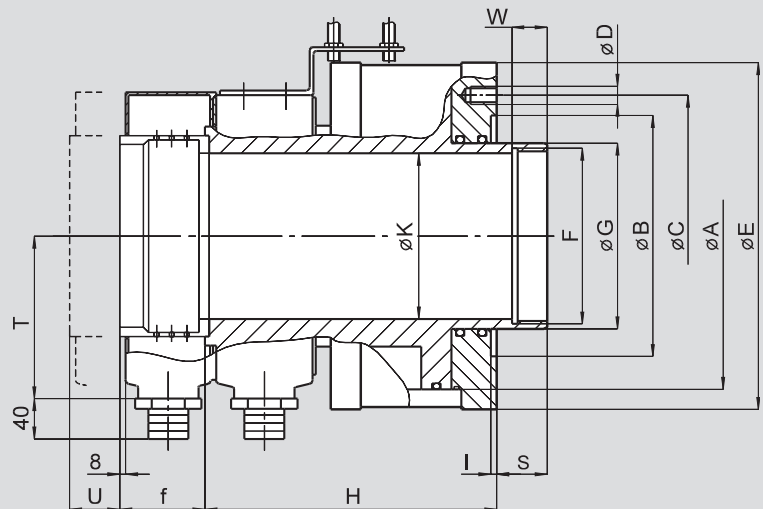
Open center hydraulic cylinder with  
coolant collector CP1  
Bracket for proximity switches  
(for stroke control)  
Without proximity switch and mounting bolts

## Ordering example

Open center hydraulic cylinder  
VSG 450-165  
or  
Open center hydraulic cylinder  
VSG 550-205



Subject to technical changes  
For more detailed information please ask for customer drawing



## Dimensions

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

## Technical data

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

\*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.