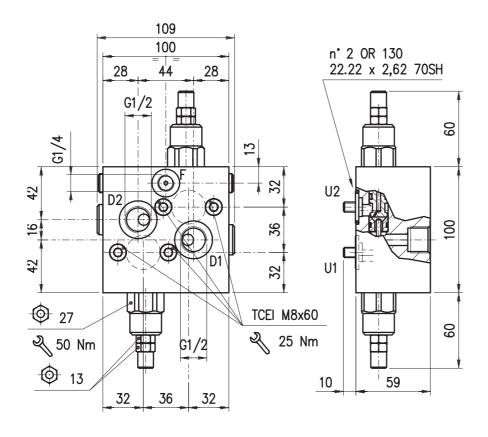
OVERCENTER VALVES (DANFOSS MOTOR)

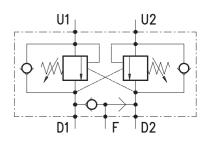
VODL/SC/F/A 12/OMR

OLEOSTAR

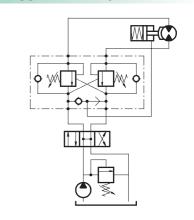
DIMENSIONS (mm)

HYDRAULIC DIAGRAM





ASSEMBLY DIAGRAM



• **DESCRIPTION**

Dual overcenter valves, face mounting for Sauer Danfoss motor OMR series with connection gate for hydraulic brake release.

OPERATION

The oil flow is allowed from D1 (D2) to U1 (U2) and is stopped in the opposite way from U1 (U2) to D1 (D2) up to the spring setting value. Free oil flow from U1 (U2) to D1 (D2) is strictly possible when the pilot pressure in D2 and U2 (D1 and U1) is strong enough to pilot the valve poppet.

Use the following formula to assert the applicable pilot pressure:

(valve setting - load pressure) ÷ pilot ratio = pilot pressure

For example:

If your pilot ratio is 1:3, your setting pressure is 250 bar and your load pressure is 130 bar then you will need 30 bar pilot pressure in order to displace the load. [(250 bar - 130 bar) \div 3 = 40

Should counterpressure arise in D1 (D2), the setting value of valve poppet (1:1 ratio) will increase and the pilot pressure be negatively affected (1:1 ratio).

The special shuttle valve allows releasing of the hydraulic parking brakes.

PERFORMANCE

Maximum flow: 40 l/min **Maximum Pressure:**

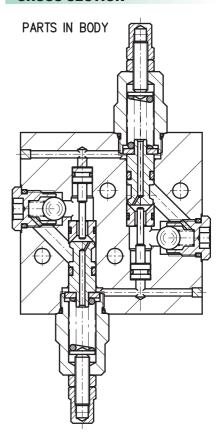
- Aluminium body: 210 bar
- Steel body: 350 bar

Application range with standard springs:

- 5 210 bar pressure increase = 26 bar/turn (test setting: 170 bar at 5 l/min)
- 50 350 bar pressure increase= 87 bar/turn (test setting: 280 bar at 5 l/min) STANDARD

Oil leaks from U1 (U2) to D1 (D2): 0.25 cc/minute (5 drops) at 210 bar and 80% of the spring setting value with oil viscosity of 46 cSt

CROSS SECTION





Pilot ratio: 1:3 (standard type) Working temperature:

- Minimum -25°C max 90°C with standard BUNAN gaskets

- Minimum -20°C max 200°C with optional VITON gaskets

Spare parts KIT: Screws and Seals (Ordering code: 5KT0OMR02)

RECOMMANDATIONS

Fluid: best use mineral oil with viscosity ranging between 10 and 200 cSt

Filter: see page Z.9000.000.

Weight:

- aluminium valves 2 kg

- steel valves 3.8 kg

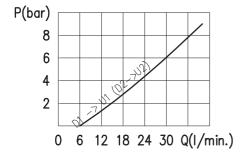
Material: made out of high-grade steel duly treated and fabricated.

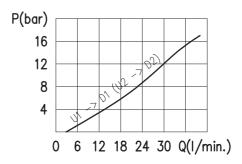
For more information please ask our technical office.

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RATING DIAGRAMS



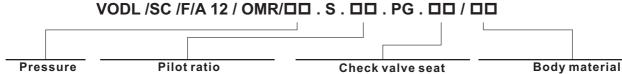


Oil viscosity 46 cSt

Aluminium

ac Steel

CODE NUMBER



See body VRR) Hardened steel

p3) 1:3 (standard)

TS) 5÷210

settings (bar)

TR)50÷350 (standard)