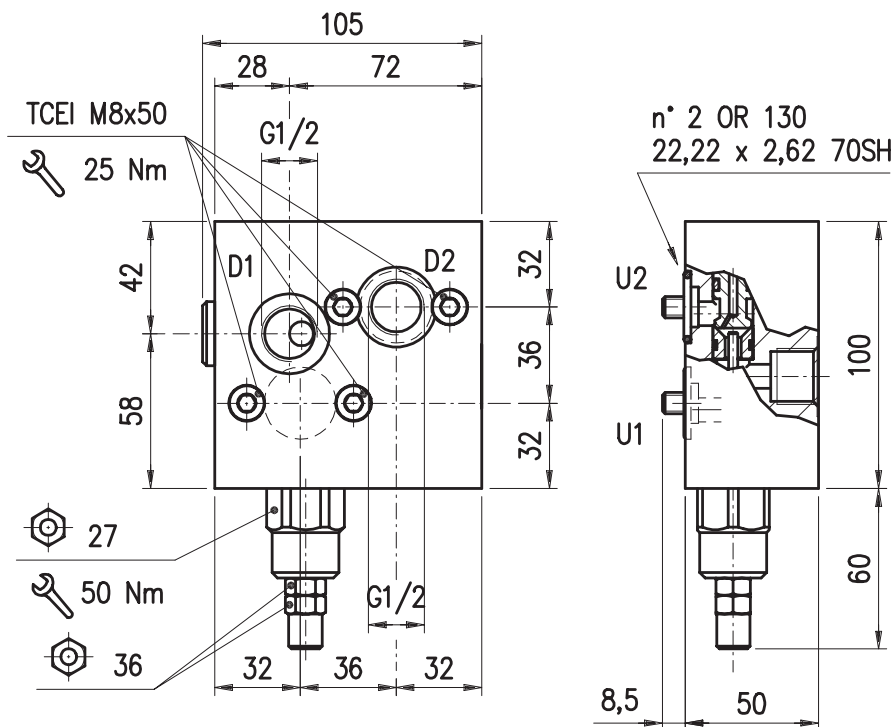
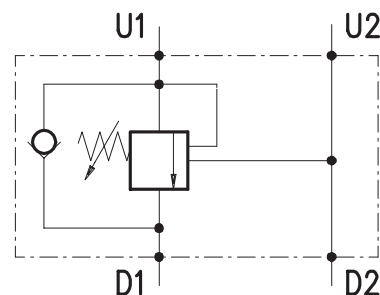


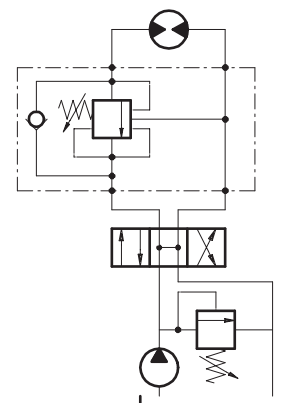
• **DIMENSIONS (mm)**



• **HYDRAULIC DIAGRAM**



• **ASSEMBLY DIAGRAM**



• **DESCRIPTION**

Single overcenter valves, face mounting for Sauer Danfoss motor OMR series.

• **OPERATION**

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

Use the following formula to assert the applicable pilot pressure:

$$(\text{valve setting} - \text{load pressure}) \div \text{pilot ratio} = \text{pilot pressure}$$

For example:

If your pilot ratio is 1:4, 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. $[(250 \text{ bar} - 130 \text{ bar}) \div 4 = 30 \text{ bar}]$.

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

• **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

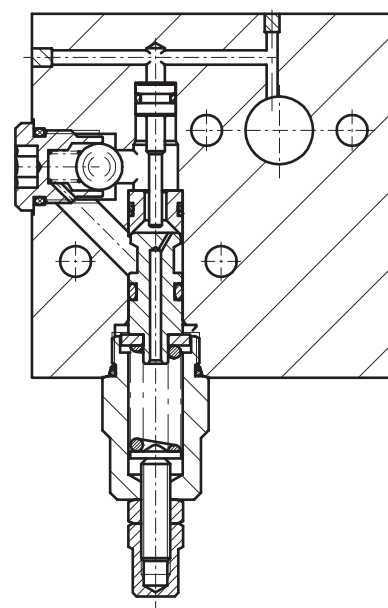
Oil leaks from U1 to D1: 0.25 cc/minute (5 drops) at 210 bar and 80% of the spring setting value with oil viscosity of 46 cSt

Pilot ratio:

1:4 (standard type)

• **CROSS SECTION**

PARTS IN BODY



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: 5KTM0OMR03)

RECOMMENDATIONS

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

Filter: see page Z.9000.000.

Weight:

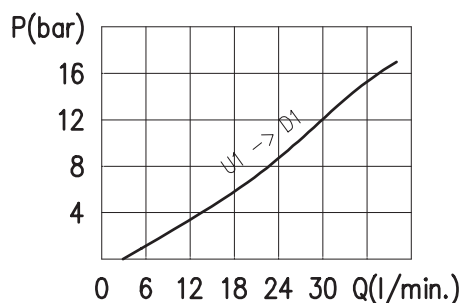
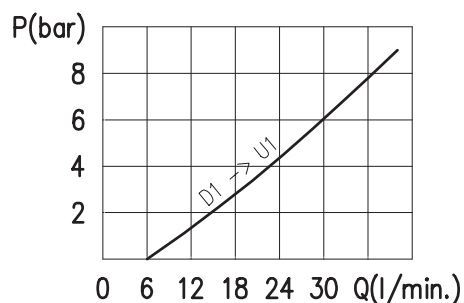
- aluminium valves 1.5 kg
- steel valves 3.5 kg

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

For more information please ask our technical office.

Variations and modifications of technical features and dimensions are reserved. **OLEOSTAR S.p.A.** also reserves the right to stop production of each and any model listed in the catalogue with no notice.

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• RATING DIAGRAMS


Oil viscosity 46 cSt

• CODE NUMBER

VOSL / SC / F 12 / OMR/□□ . S . □□ . PG . □□ / □□

Pressure settings (bar)	Pilot ratio	Check valve seat	Body material
TS) 5÷210 TR) 50÷350 (standard)	p4) 1:4 (standard)	See body VRR) Hardened steel	Aluminium ac Steel