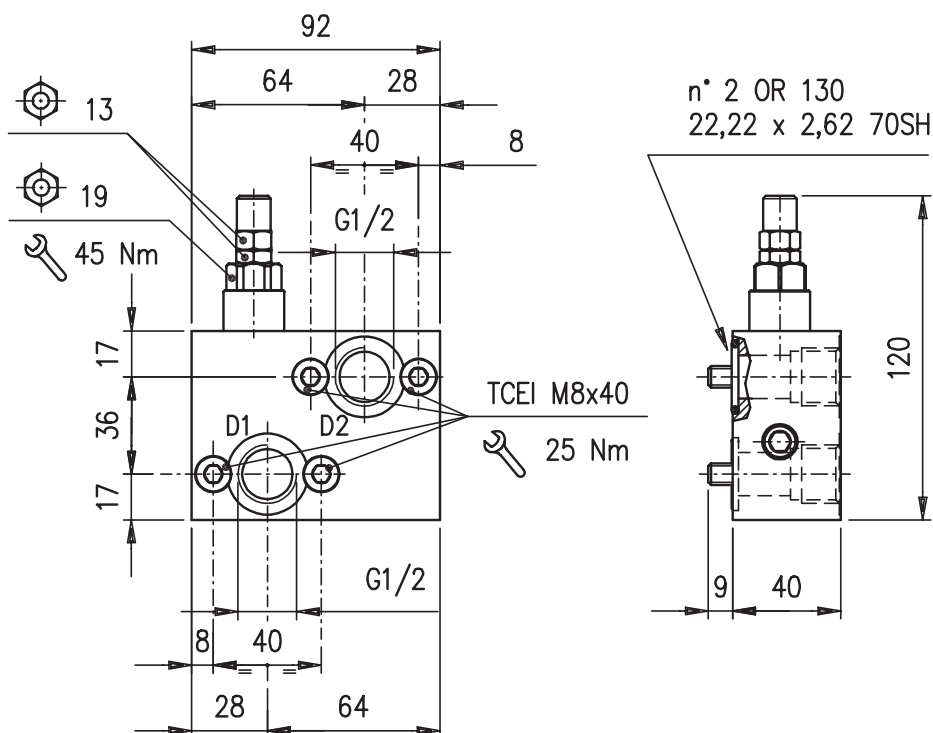


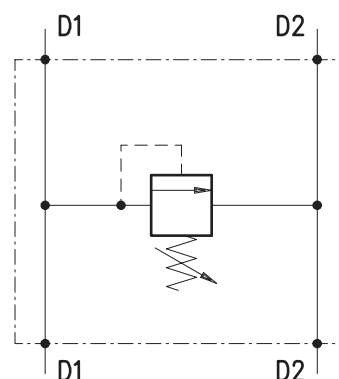
# **PRESSURE RELIEF VALVES (SAUER-DANFOSS MOTOR)** **VAIF/5/D1S/12/OMR**



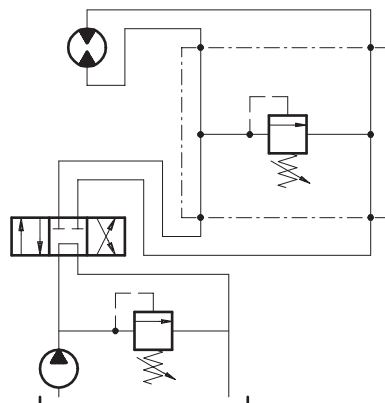
## • **DIMENSIONS (mm)**



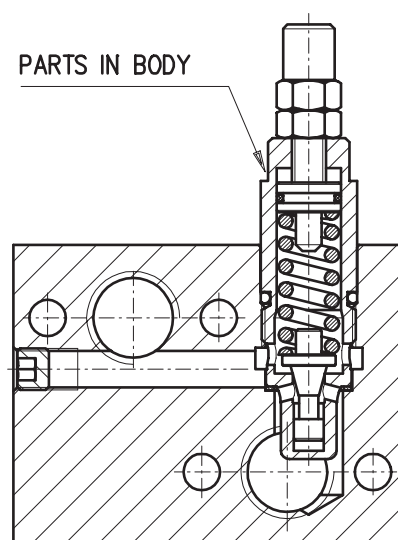
## • **HYDRAULIC DIAGRAM**



## • **ASSEMBLY DIAGRAM**



## • **CROSS SECTION**



## • **DESCRIPTION**

Single cross-line relief valve. Direct acting, poppet type, face mounting for Sauer-Danfoss motor OMR series, including O-rings and screws

## • **OPERATION**

Allows pressure relief on delivery pipes to engines and cylinders.

## • **PERFORMANCE**

**Maximum flow:** 35 l/min.

**Maximum Pressure:**

- 210 bar (aluminium valves)
- 350 bar (steel valves)

**Application range with standard springs:**

- 5 ÷ 40 bar; pressure increase= 4.8 bar/turn (test setting: 30 bar at 5 l/min.)
- 20 ÷ 80 bar; pressure increase= 15.6 bar/turn (test setting: 60 bar at 5 l/min.)
- 50 ÷ 220 bar; pressure increase= 52 bar/turn (test setting: 160 bar at 5 l/min.) STANDARD
- 180 ÷ 350 bar; pressure increase= 63 bar/turn (test setting: 280 bar at 5 l/min.)

**Hysteresis:** 85% of the valve setting for 1 L. flow capacity per minute.

To perform setting of the valve see the pressure drop / flow diagram.

**Working temperature:**

- min. -25°C max. 90°C with standard BUNAN gaskets
- min. -20°C max. 200°C with optional VITON gaskets

**Spare Parts KIT:**

Screws and Seals (Ordering code: 5KTM0OMR01)

## RECOMMENDATIONS

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

**Filter:** see page Z.9000.000.

**Weight:**

- 0,45 kg aluminium valves
- 0,9 kg steel valves

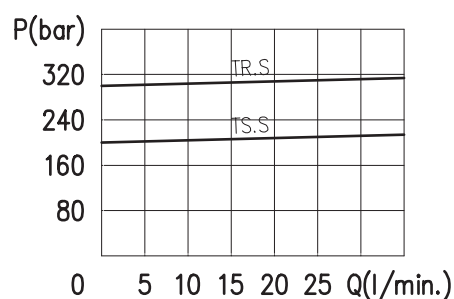
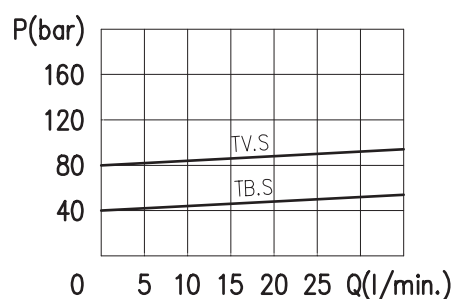
**Material:** internal components made out of high grade steel duly treated and fabricated.

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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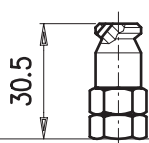
## RATING DIAGRAMS



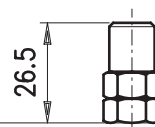
Oil viscosity 46 cSt

## ADJUSTMENTS

W



S



## CODE NUMBER

VAIF 5/D1S/ 12/OMR/ □□ . □ / □□

Pressure settings (bar)

TB) 5÷40  
TV) 20÷80  
TS) 50÷220  
TR) 180÷350

Adjustment

S  
W

Body material

\_ Aluminium  
ac Steel