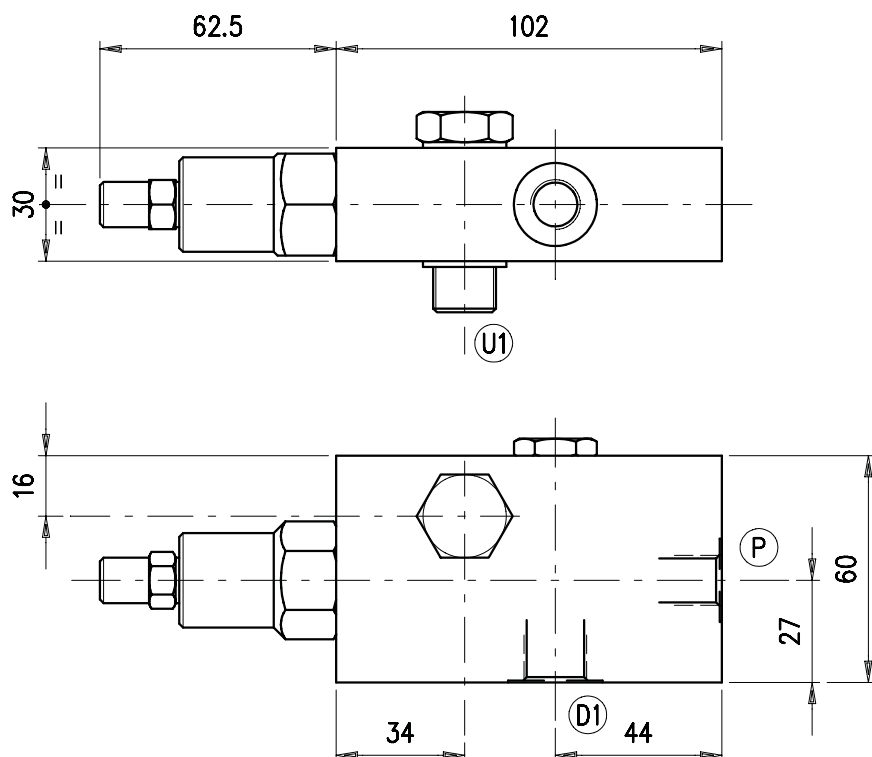


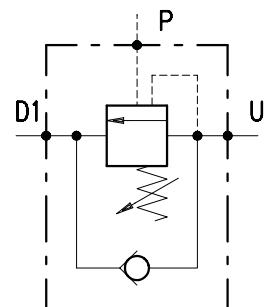
OVERCENTER VALVES
VOSLP /SC /RO 38



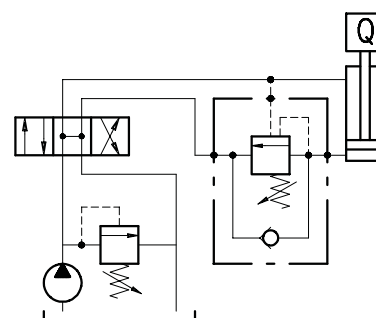
• **DIMENSIONS (mm)**



• **HYDRAULIC DIAGRAM**



• **ASSEMBLY DIAGRAM**



D1-U1	P
G 3/8	G 1/4

• **DESCRIPTION**

Single overcenter valves, external pilot operated type, bolt mounting.

• **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 P 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 (test setting: 170 bar at 5 l/min)
- 50 - 350 bar (test setting: 280 bar at 5 l/min)
- 100 - 700 bar (test setting: 350 bar at 5 l/min)

Oil leak 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)
- 1:3 (on request only)

26/05/1999



Working temperature:

- Minimum -25°C max 90°C with standard BUNA N gaskets
- Minimum -20°C max 120°C with optional VITON gaskets

RECOMMENDATIONS:

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

Filter: see page Z.9000.000.

Weight:

- Aluminium body: 0.87 kg
- Steel body: 1.62 kg

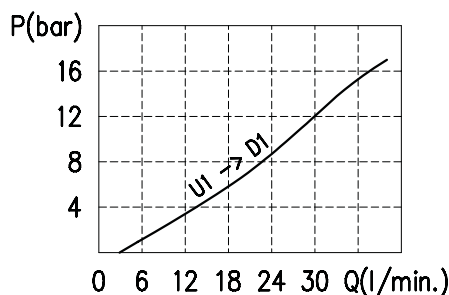
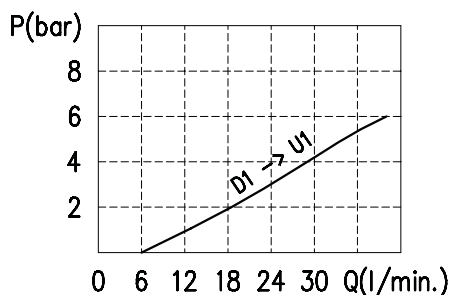
Material: internal components made out of high grade steel duly treated and fabricated.

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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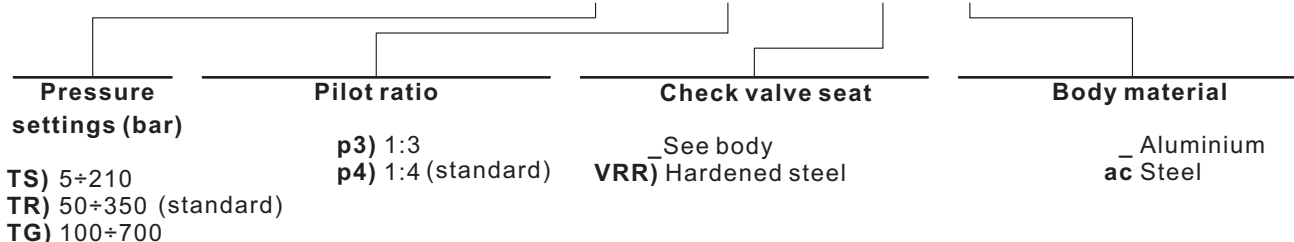
RATING DIAGRAMS



Oil viscosity 46 cSt

CODE NUMBER

VOSLP /SC /RO 38 / □□ . S . □□ . PG . □□ / □□



6.1400.100