

Senkbremsventil – doppelwirkend G 3/8" –

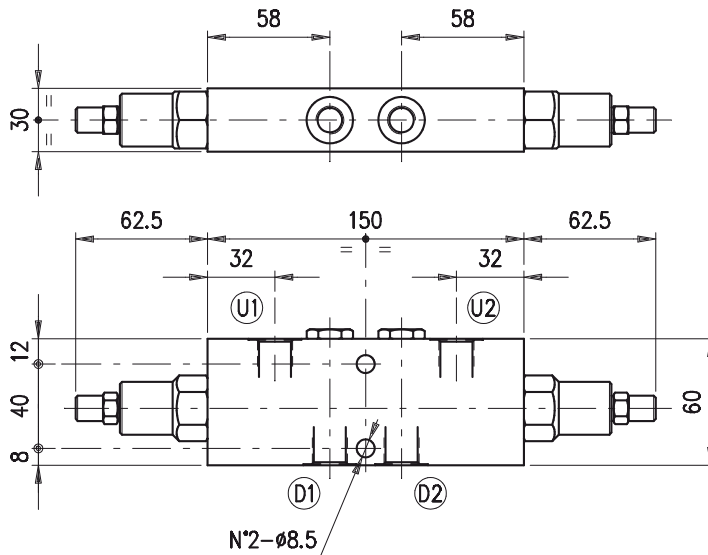


Bestellnr.	Typ	Bezeichnung	Gehäuse	max. Betriebsdruck bar	max. Durchfluss l/min	Code
230-0970-2955	VODL/SC 38/TS.S.p4	3/8"-Öff.v. 1:4 / 5-210bar	Alu	210	40	1560021100
230-0970-2960	VODL/SC 38/TS.S.p3	3/8"-Öff.v. 1:3 / 5-210bar				1560021101
230-0970-2965	VODL/SC 38/TR.S.p4	3/8"-Öff.v. 1:4 / 50-350bar				1560021102
230-0970-2970	VODL/SC 38/TR.S.p3	3/8"-Öff.v. 1:3 / 50-350bar				1560021103
230-0970-2975	VODL/SC 38/TG.S.p4	3/8"-Öff.v. 1:4 / 100-700bar				1560021104
230-0970-2980	VODL/SC 38/TG.S.p3	3/8"-Öff.v. 1:3 / 100-700bar				1560021105
230-0970-2985	VODL/SC 38/TG.S.p4.PG	3/8"-Öff.v. 1:4 / 100-700bar				1560021108
230-0970-2990	VODL/SC 38/TR.S.p4.PG	3/8"-Öff.v. 1:4 / 50-350bar				1560021109
230-0970-2995	VODL/SC 38/TR.W.p4	3/8"-Öff.v. 1:4 / 50-350bar				1560021112
230-0970-3000	VODL/SC 38/TS.S.p3.PG	3/8"-Öff.v. 1:3 / 5-210bar				1560021114
230-0970-3005	VODL/SC 38/TR.S.p4/ac	3/8"-Öff.v. 1:4 / 50-350bar				Stahl
230-0970-3010	VODL/SC 38/TR.S.p4.PG/ac	3/8"-Öff.v. 1:4 / 50-350bar	1560022101			
230-0970-3015	VODL/SC 38/TG.S.p4/ac	3/8"-Öff.v. 1:4 / 100-700bar	1560022102			

230-0970

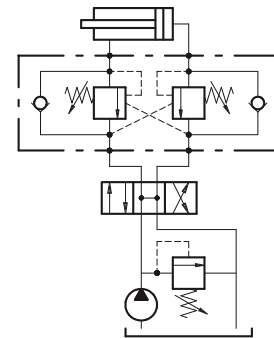
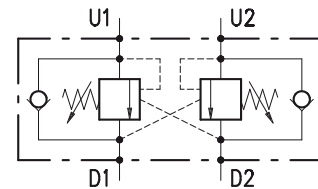
OVERCENTER VALVES
VODL /SC 38

• DIMENSIONS (mm)



D1-D2	U1-U2
G 3/8	G 3/8

• HYDRAULIC DIAGRAM



• DESCRIPTION

Dual overcenter valves, line mounting.

• 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 1:4, 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 (D2), the setting value of valve poppet (1:1 ratio) will increase and the pilot pressure be negatively affected (1:1 ratio).

Lack of overcenter stability and troublesome motion even after complete valve assembly, will suggest that the valve application may require a PG version. Please contact our technical service for action.

• 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: 150 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 (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

Pilot ratio:

230-0970

- 1:3 (on request only)

Working temperature:

- Minimum -25°C max 90°C with standard BUNAN 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 1.13 kg
- steel body 2.16 kg

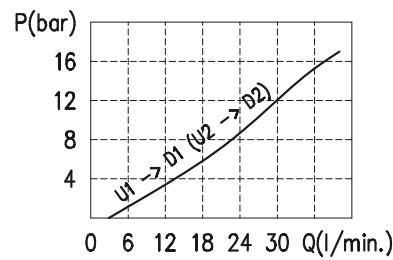
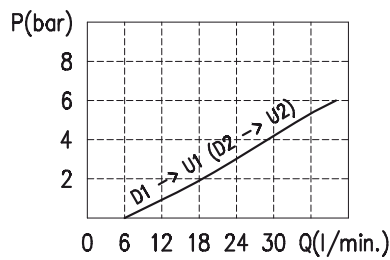
Material: internal components made out of high-grade steel duly treated and fabricated.

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.

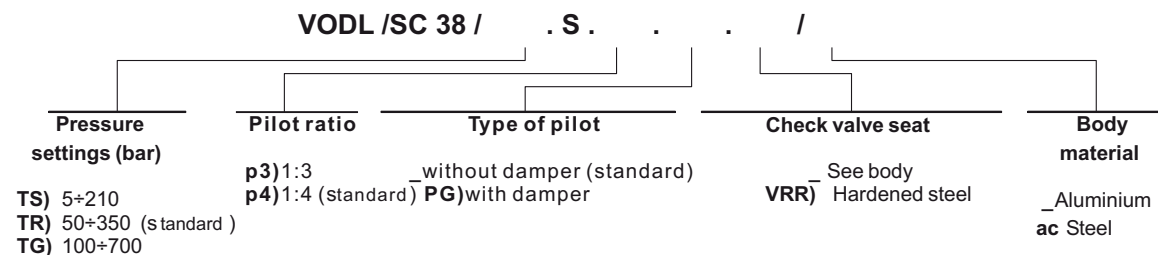
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• **RATING DIAGRAMS**



Oil viscosity 46 cSt

• **CODE NUMBER**



230-0970