

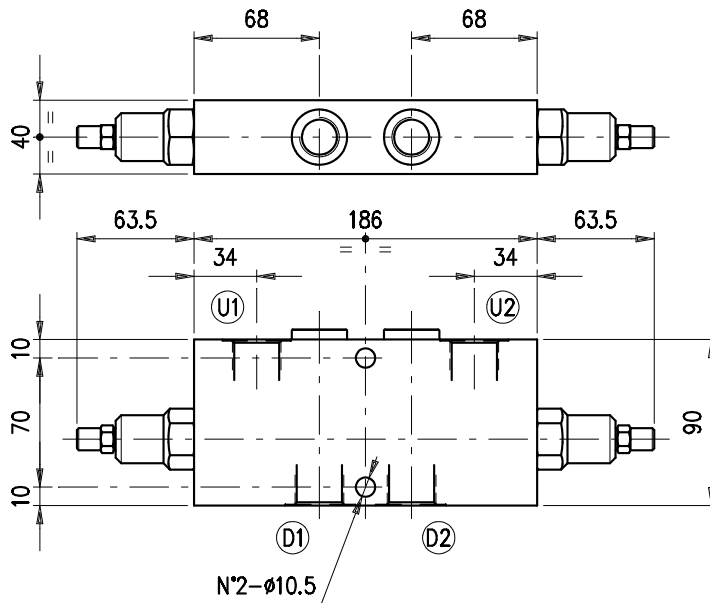
## Senkbremsventil – doppelwirkend G 3/4" –



Bestellnr.	Typ	Bezeichnung	Gehäuse	max. Betriebsdruck bar	max. Durchfluss l/min	Code
230-0990-3085	VODL/SC 34/TS.S.p7	3/4"-Öff.v. 1:7 / 5-210bar	Alu	210	120	1560041100
230-0990-3090	VODL/SC 34/TS.S.p3	3/4"-Öff.v. 1:3 / 5-210bar				1560041101
230-0990-3095	VODL/SC 34/TR.S.p7	3/4"-Öff.v. 1:7 / 50-350bar				1560041102
230-0990-3100	VODL/SC 34/TR.S.p3	3/4"-Öff.v. 1:3 / 50-350bar				1560041103
230-0990-3105	VODL/SC 34/TG.S.p7	3/4"-Öff.v. 1:7 / 100-700bar				1560041104
230-0990-3110	VODL/SC 34/TG.S.p3	3/4"-Öff.v. 1:3 / 100-700bar				1560041105
230-0990-3115	VODL/SC 34/TS.S.p7.PG	3/4"-Öff.v. 1:7 / 5-210bar				1560041107
230-0990-3120	VODL/SC 34/TR.S.p7.PG	3/4"-Öff.v. 1:7 / 50-350bar				1560041108
230-0990-3125	VODL/SC 34/TR.S.p7/ac	3/4"-Öff.v. 1:7 / 50-350bar	Stahl	350	120	1560042100
230-0990-3130	VODL/SC 34/TG.S.p7/ac	3/4"-Öff.v. 1:7 / 100-700bar				1560042101

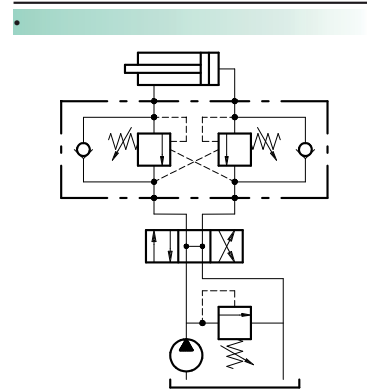
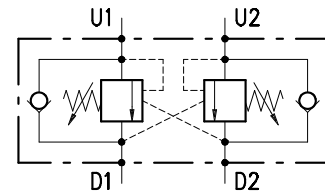
OVERCENTER VALVES  
VODL /SC 34

• DIMENSIONS (mm)



D1-D2	U1-U2
G 3/4	G 3/4

• 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:

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

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 (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:** 120 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

230-0990

**Pilot ratio:**

- 1:7 (standard type)
- 1:3 (on request only)

**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 2.22 kg
- steel body 4.75 kg

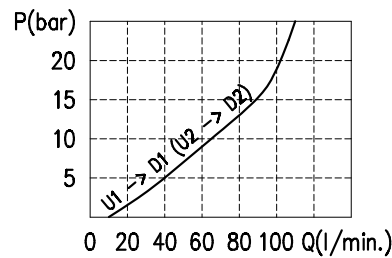
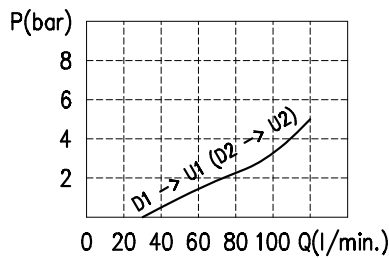
**Material:** internal components made out of high-grade steel duly treated and fabricated.

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**

