

Senkbremsventil – doppelwirkend G 1/2" –

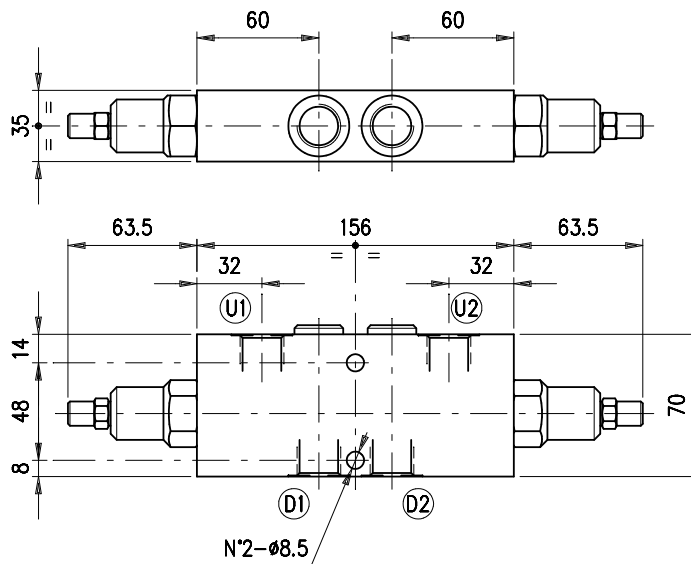


Bestellnr.	Typ	Bezeichnung	Gehäuse	max. Betriebsdruck bar	max. Durchfluss l/min	Code
230-0980-3020	VODL/SC 12/TS.S.p7	1/2"-Öff.v. 1:7 / 5-210bar	Alu	210	75	1560031100
230-0980-3025	VODL/SC 12/TS.S.p3	1/2"-Öff.v. 1:3 / 5-210bar				1560031101
230-0980-3030	VODL/SC 12/TR.S.p7	1/2"-Öff.v. 1:7 / 50-350bar				1560031102
230-0980-3035	VODL/SC 12/TR.S.p3	1/2"-Öff.v. 1:3 / 50-350bar				1560031103
230-0980-3040	VODL/SC 12/TG.S.p7	1/2"-Öff.v. 1:7 / 100-700bar				1560031104
230-0980-3045	VODL/SC 12/TG.S.p3	1/2"-Öff.v. 1:3 / 100-700bar				1560031105
230-0980-3050	VODL/SC 12/TG.S.p7.PG	1/2"-Öff.v. 1:7 / 100-700bar				1560031110
230-0980-3055	VODL/SC 12/TR.S.p7.PG	1/2"-Öff.v. 1:7 / 50-350bar				1560031111
230-0980-3060	VODL/SC 12/TR.S.p3.PG	1/2"-Öff.v. 1:3 / 5-210bar				1560031112
230-0980-3065	VODL/SC 12/TG.S.p3.PG	1/2"-Öff.v. 1:3 / 100-700bar				1560031118
230-0980-3070	VODL/SC 12/TR.S.p7/ac	1/2"-Öff.v. 1:7 / 50-350bar				Stahl
230-0980-3075	VODL/SC 12/TG.S.p7/ac	1/2"-Öff.v. 1:7 / 100-700bar	1560032102			
230-0980-3080	VODL/SC 12/TR.S.p3/ac	1/2"-Öff.v. 1:3 / 50-350bar	1560032103			

OVERCENTER VALVES
VODL /SC 12

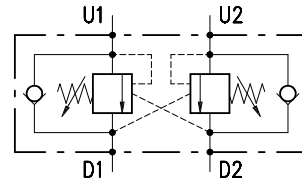


• **DIMENSIONS (mm)**

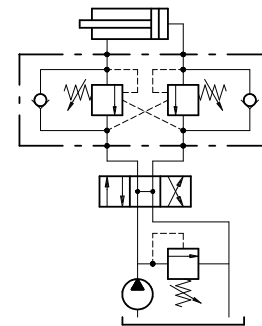


D1-D2	U1-U2
G 1/2	G 1/2

• **HYDRAULIC DIAGRAM**



• **ASSEMBLY 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 bar - 130 bar) ÷ 4 = 30 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: 75 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:

- 1:7 (standard type)

230-0980



- 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 1.47 kg
- steel body 2.89 kg

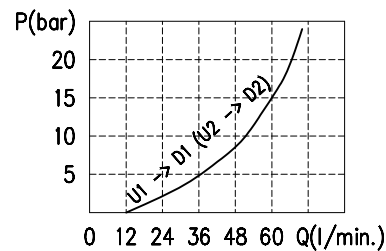
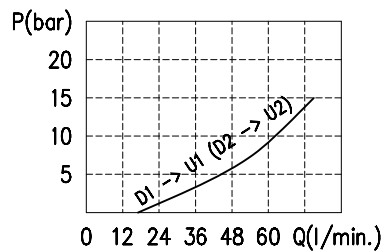
Material: internal components made out of high-grade steel duly treated and fabricated.

For more information please ask our technical office.

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• RATING DIAGRAMS



Oil viscosity 46 cSt

• CODE NUMBER

VODL / SC 12 / □□ . S . □□ . □□ . □□ / □□

