

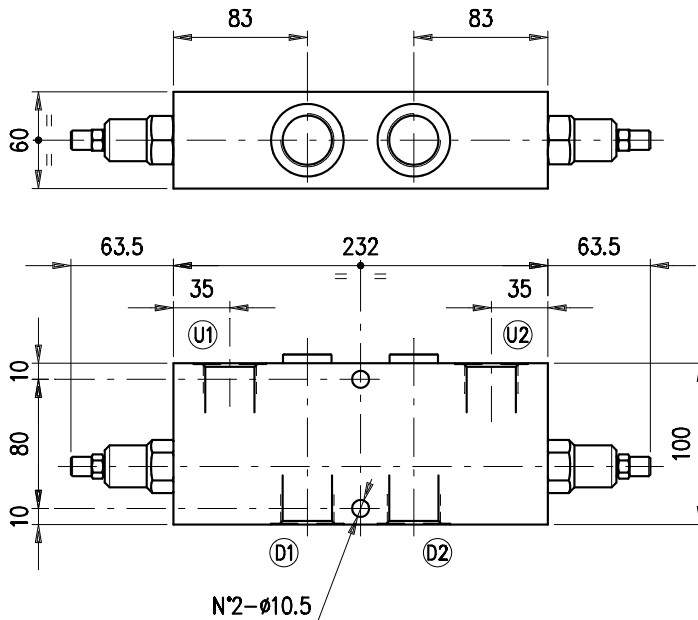
Senkbremssventil – doppelwirkend G 1" –



Bestellnr.	Typ	Bezeichnung	Gehäuse	max. Betriebsdruck bar	max. Durchfluss l/min	Code
230-1000-3135	VODL/SC 100/TS.S.p7	1"-Öff.v. 1:7 / 5-210bar	Alu	210	180	1560051100
230-1000-3140	VODL/SC 100/TS.S.p3	1"-Öff.v. 1:3 / 5-210bar				1560051101
230-1000-3145	VODL/SC 100/TR.S.p7	1"-Öff.v. 1:7 / 50-350bar				1560051102
230-1000-3150	VODL/SC 100/TR.S.p3	1"-Öff.v. 1:3 / 50-350bar				1560051103
230-1000-3155	VODL/SC 100/TG.S.p7	1"-Öff.v. 1:7 / 100-700bar				1560051104
230-1000-3160	VODL/SC 100/TG.S.p3	1"-Öff.v. 1:3 / 100-700bar				1560051105
230-1000-3165	VODL/SC 100/TR.S.p7.PG	1"-Öff.v. 1:7 / 50-350bar				1560051109
230-1000-3170	VODL/SC 100/TR.S.p7/ac	1"-Öff.v. 1:7 / 50-350bar				Stahl
230-1000-3175	VODL/SC 100/TG.S.p7/ac	1"-Öff.v. 1:7 / 100-700bar	1560052101			
230-1000-3180	VODL/SC 100/TS.S.p3.PG/ac	1"-Öff.v. 1:3 / 5-210bar	1560052102			

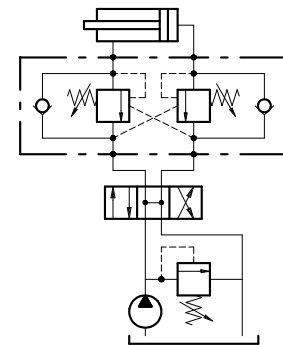
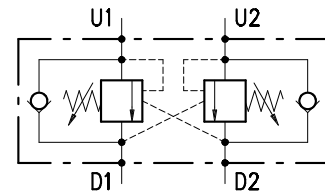
OVERCENTER VALVES
VODL /SC 100

• DIMENSIONS (mm)



D1-D2	U1-U2
G 1"	G 1"

• 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: 180 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)

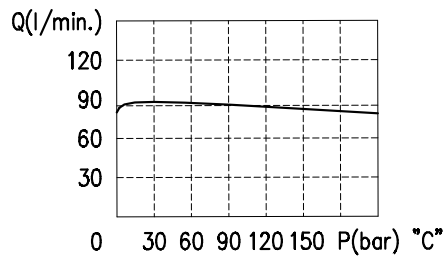
- 50 - 350 bar (test setting: 280 bar at 5 l/min)

- 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

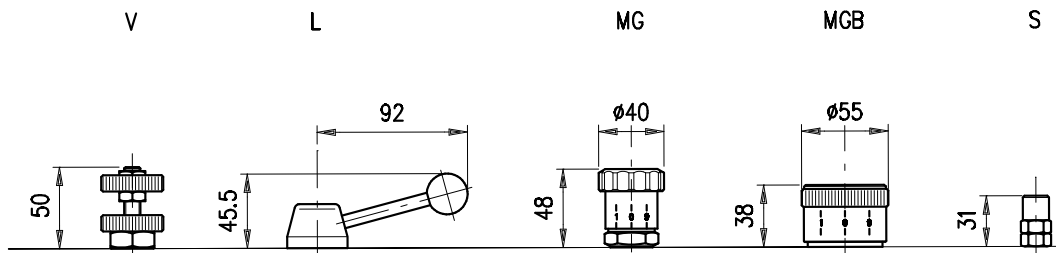
230-1000

• RATING DIAGRAMS



Oil viscosity 46 cSt

• ADJUSTMENTS



• CODE NUMBER

