

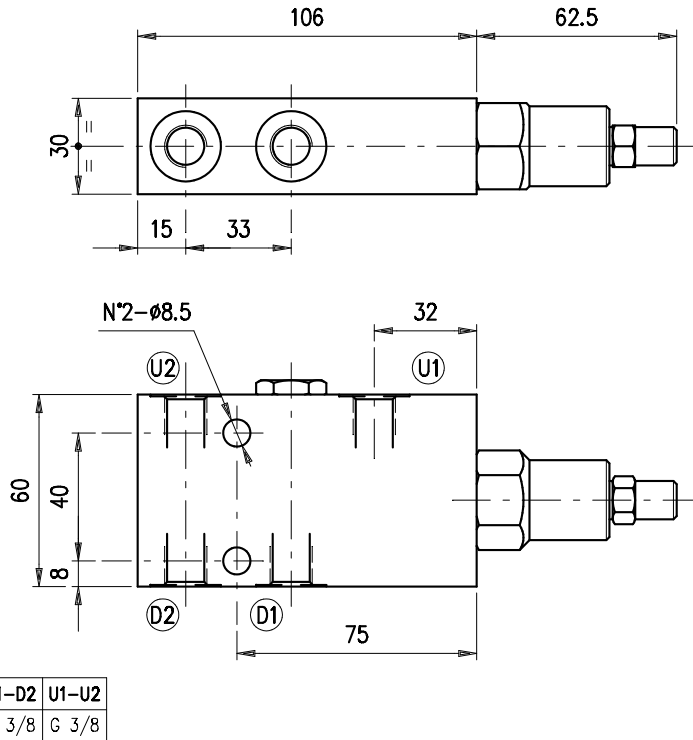
Senkbremsventil – einfachwirkend G 3/8" –



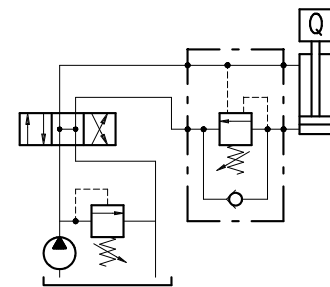
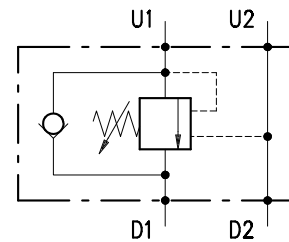
Bestellnr.	Typ	Bezeichnung	Gehäuse	max. Betriebsdruck bar	max. Durchfluss l/min	Code
230-0890-2720	VOSL/SC 38/TS.S.p4.PG	3/8"-Öff.v. 1:4 / 5-210bar	Alu	210	40	1520021100
230-0890-2725	VOSL/SC 38/TS.S.p3.PG	3/8"-Öff.v. 1:3 / 5-210bar				1520021101
230-0890-2730	VOSL/SC 38/TR.S.p3.PG	3/8"-Öff.v. 1:3 / 50-350bar				1520021103
230-0890-2735	VOSL/SC 38/TG.S.p4.PG	3/8"-Öff.v. 1:4 / 100-700bar				1520021104
230-0890-2740	VOSL/SC 38/TG.S.p3.PG	3/8"-Öff.v. 1:3 / 100-700bar				1520021105
230-0890-2745	VOSL/SC 38/TR.S.p7.PG	3/8"-Öff.v. 1:7 / 50-350bar				1520021106
230-0890-2750	VOSL/SC 38/TR.S.p4.PG	3/8"-Öff.v. 1:4 / 50-350bar				1520021108
230-0890-2755	VOSL/SC 38/TR.S.p4 PG/ac	3/8"-Öff.v. 1:4 / 50-350bar	Stahl	350		1520022100

OVERCENTER VALVES
VOSL /SC 38

• DIMENSIONS (mm)



• HYDRAULIC DIAGRAM



• DESCRIPTION

Single overcenter valves, line 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 D2 and U2 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: 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 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)

230-0890

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 0.68 kg
- steel body 1.44 kg

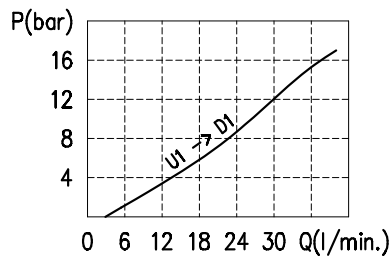
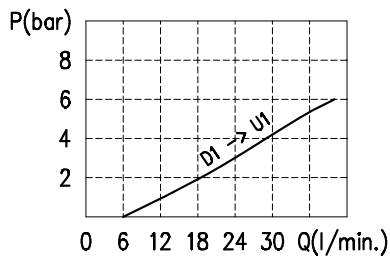
Material: internal components made out of high grade steel duly treated and fabricated.

For more information please ask our technical office.

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• **RATING DIAGRAMS**



Oil viscosity 46 cSt

• **CODE NUMBER**

