HYMATEC GMBH
HYDRAULIK MASCHINEN TECHNIK

Senkbremsventil
– einfachwirkend G 1/2" –

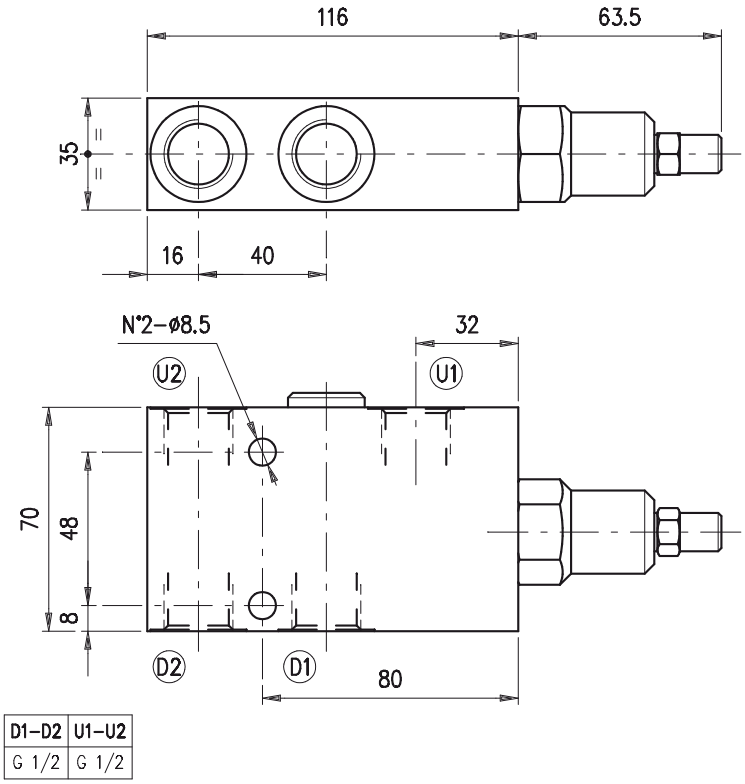
Bestellnr.	Typ	Bezeichnung	Gehäuse	max. Betriebs-druck bar	max. Durch-fluss l/min	Code
230-0910-2770	VOSL/SC 12/TS.S.p7.PG	1/2"-Öff.v. 1:7 / 5-210bar	Alu	210	75	1520031100
230-0910-2775	VOSL/SC 12/TS.S.p3.PG	1/2"-Öff.v. 1:3 / 5-210bar				1520031101
230-0910-2780	VOSL/SC 12/TR.S.p3.PG	1/2"-Öff.v. 1:3 / 50-350bar				1520031103
230-0910-2785	VOSL/SC 12/TG.S.p3.PG	1/2"-Öff.v. 1:3 / 100-700bar				1520031105
230-0910-2790	VOSL/SC 12/TG.S.p7.PG	1/2"-Öff.v. 1:7 / 100-700bar				1520031106
230-0910-2795	VOSL/SC 12/TR.S.p7.PG	1/2"-Öff.v. 1:7 / 50-350bar				1520031107
230-0910-2800	VOSL/SC 12/TR.S.p7.PG/ac	1/2"-Öff.v. 1:7 / 50-350bar	Stahl	350		1520032100
230-0910-2805	VOSL/SC 12/TR.S.p3.PG/ac	1/2"-Öff.v. 1:3 / 50-350bar				1520032101
230-0910-2810	VOSL/SC 12/TG.S.p7.PG/ac	1/2"-Öff.v. 1:7 / 100-700bar				1520032102

Hymatec-GmbH – Hebbelstraße 22 94315 Straubing
Tel.: 09421/1887797 – Fax: 09421/1887799 – Email: info@hymatec-gmbh.de – www.hymatec-gmbh.de

OVERCENTER VALVES

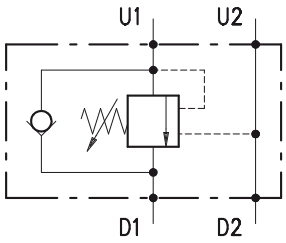
VOSL /SC 12

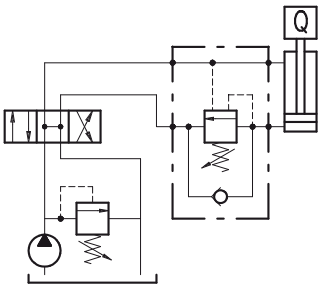
• DIMENSIONS (mm)



D1–D2	U1–U2
G 1/2	G 1/2

• 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:
(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 bar – 130 bar) ÷ 4 = 30 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: 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 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:
- 1:7 (standard type)
- 1:3 (on request only)

Hymatec-GmbH – Hebbelstraße 22 94315 Straubing
Tel.: 09421/1887797 – Fax: 09421/1887799 – Email: info@hymatec-gmbh.de – www.hymatec-gmbh.de

Working temperature:

- Minimum -25°C max 90°C with standard BUNA N gaskets
- Minimum -20°C max 120°C with optional VITON gaskets

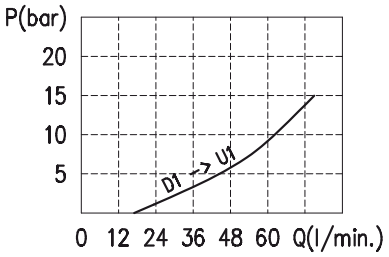
• RECOMMENDATIONS

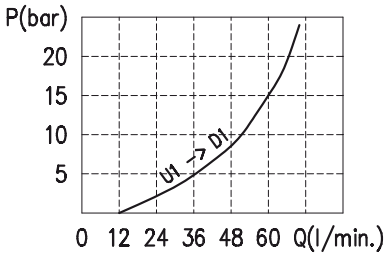
Fluid: best use mineral oil with viscosity ranging between 10 and 200 cSt
Filter: see page Z.9000.000.
Weight:

- aluminium body 0.95 kg
- steel body 2.03 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.

• RATING DIAGRAMS





Oil viscosity 46 cSt

• CODE NUMBER

VOSL /SC 12 / . S . . PG . /

Pressure settings (bar)

TS) 5÷210
TR) 50÷350 (standard)
TG) 100÷700

Pilot ratio

p3) 1:3
P7) 1:7 (standard)

Check valve seat

_ See body
VRR) Hardened steel

Body material

_ Aluminium
ac Steel

Hymatec-GmbH – Hebbelstraße 22 94315 Straubing
Tel.: 09421/1887797 – Fax: 09421/1887799 – Email: info@hymatec-gmbh.de – www.hymatec-gmbh.de