

SINGLE COUNTERBALANCE

AVBSOSE30PLVSFCSVPRPF16-D

08.39.46.03.18.35.00D

Material number R930007437

TECHNICAL DATA

| Max. operating pressure: 420 bar (6090 psi) | | Max. flow: 60 l/min (16 gpm) | |
|---|---------------------------------------|-------------------------------|---------------------------------------|
| | Setting bar (psi) - cracking pressure | Adj. pressure range bar (psi) | Pressure increase bar/turn (psi/turn) |
| Valve 1 | 350 (5075) | 100 - 350 (1450 - 5075) | 138 (2001) |
| Valve 2 | 380 (5510) | 200 - 420 (2900 - 6090) | 94 (1363) |

Relief setting valve 1: at least 1.2 times the highest expected load.

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| Pilot ratio Valve 1: 2.1:1 | Port size V2-Pil: M16x1.5 ISO 9974-1 C2: Ø 20.5 (0.81) T: G 3/8 ISO 1179-1 |
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Spare parts list

| Description | Code |
|-----------------|-----------------------------------|
| Seal flange kit | E00000000000037 (MNR: R930005881) |
| Cartridge (2) | 04116703994201A (MNR: R930006219) |
| Oil filter (3) | KP9001493000000 (MNR: R930006196) |

Material
Manifold: zinc plated steel.
External parts: zinc plated steel.

Weight: 2.5 kg (5.5 lbs)

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| Hydraulic fluid Mineral oil (HL, HLP) according to DIN 51524 | Hydraulic fluid temperature range -20 to +100°C (-4 to 212°F) |
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| Viscosity range 10 to 500 mm ² /s (cSt) | Filtration Class 19/17/14 according to ISO 4406 |
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Description

When pressure at V2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from V2 to C2. When load pressure at C2 rises above the pressure setting, the direct operated relief function is activated and flow is relieved from C2 to V2. The control piston is cross piloted through a one way restrictor (PRPF) protected by a filter and, with pilot pressure at Pil, the pressure setting is reduced in proportion to the stated ratio of the valve, until opening and allowing flow from C2 to V2. The spring chamber is drained to V2 and any back-pressure at V2 is additive to the pressure setting in all functions. The leak free pressure relief valve (2) senses C2 pressure and opens under overload or shock conditions. For component assembly, the C2 port is banjo bolted directly to the actuator port.

Note

All ports closed with plastic plugs.

Application

Concrete pump arm lifting cylinder.

To be ordered separately
See code 04.46.09.01.20-Z

