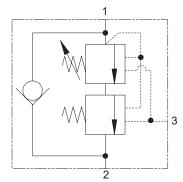
1SEL30 - Overcenter Valve

Counterbalanced, pilot assisted relief with check 30 L/min (8 USgpm) • 380 bar (5510 psi)

www: www.salushydraulics.pl e-mail: pl@salushydraulics.pl shop/sklep: www.sklep.salushydraulics.pl

Eaton 1SEL30F30S230/50 Eaton 1SEL30F20S170/50 Eaton 1SEL30F40S300/50



Operation

The check section allows free flow and then locks the load against movement. The pilot assisted relief valve section will give controlled movement when pilot pressure is applied, maintaining a counterbalance pressure to prevent initial pressure loss and therefore instability. The total pressure setting will normally be set at 1.3 times the load induced pressure. The counterbalance pressure reduces as the pilot pressure increases.

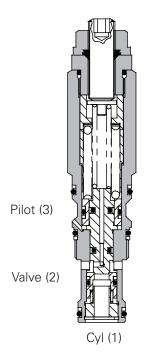
Features

Cartridge is economical and fits simple cavity. Allows quick, easy field service - reduces down time. Interchangeable with pilot check valve of a similar size.

Pilot Ratio

Primary 4.3:1 Secondary 0.4:1

Sectional View



Performance Data

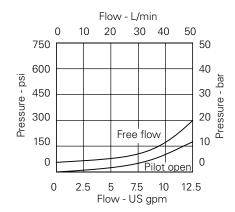
30 L/min (8 USgpm)
380 bar (5510 psi)
Working parts hardened and ground steel. External steel surfaces zinc plated.
Unrestricted
A20090-T11A
45 Nm (33 lbs ft)
0.15 kg (0.33 lbs)
SK1079 (Nitrile) SK1079V (Viton*)
BS5540/4 Class 18/13 (25 micron nominal)
-30° to +90°C (-22° to +194°F)
0.3 milliliters/min nominal (5 dpm)
5 to 500 cSt

Viton is a registered trademark of E.I. DuPont

Description

The 1SEL overcenter valve performs all duties of a regular overcenter but maintains a counterbalance pressure to provide dampening of cylinders when there is a rapid loss in stored pressure. This counterbalance pressure reduces as the pilot pressure increases. Typical applications include extension cylinders on telescopic handlers where it is important to have a smooth operation when retracting from full extension.

Pressure Drop



Note: This valve has been designed to eliminate instability from flexible boom applications or where the load induced pressure varies greatly. To get the best results, the settings should be adjusted for each application and then factory set for porduction quantities. Please contact our Technical Department for more information.

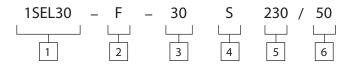




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Model Code



1 Function

1SEL30

2 Adjustment Means Counterbalance Setting

F - Screw Adjustment

N - Fixed - State pressure setting required

For fixed versions add setting in 10 barincrements to endofpartnumber. Subject to a $\pm 10\%$ tolerance. 3 Pressure Range @ 4.8 L/min

Note: Code based on pressure in bar.

20 - 170-300 bar Std setting 220 bar (170/50)

30 - 240-370 bar Std setting 280 bar (230/50)

40 - 270-380 bar Std setting 350 bar (300/50)

Std setting at 4.8 L/min

4 Seals

- Nitrile (For use with most industrial hydraulic oils)

SV - Viton (For high temperature and most special fluid applications)

5 High Pressure Setting Bar

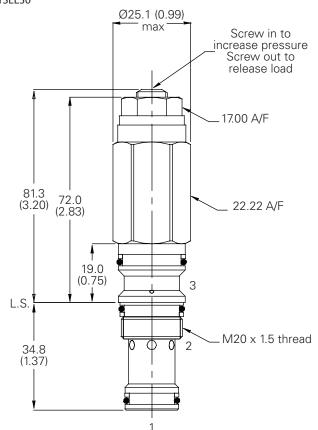
(10 bar increments) 130 to 310 bar (2175 to 5000 psi)

6 Counterbalance Setting Bar (10 bar increments) 20 to 120 bar (300 to 1740 psi)

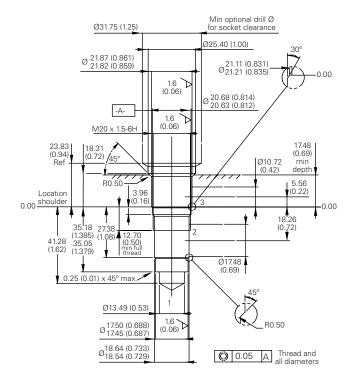
Dimensions

mm (inch)

Cartridge Only Basic Code 1SEL30



Cavity
Model A20090-T11A
Form Drill TD-11A
Form Reamer TR-11A



Note: Tightening torque of "F" adjuster locknut - 20 to 25 Nm



