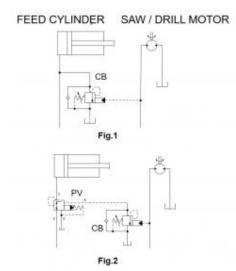


Feed Drive with CBVs to Eliminate Motor Stalling

Machine: Industrial | Actuator: Cylinder | Function: Counterbalance, Load/Force

Prepared for : Prepared by :

Schematics



Related Products

Cartridges

CBAB - 1.5:1 pilot ratio, ultra-restrictive counterbalance valve PVDB - Ventable, pilot-operated, pressure reducing/relieving valve

Summary

FEED CYLINDER SAW / DRILL MOTOR

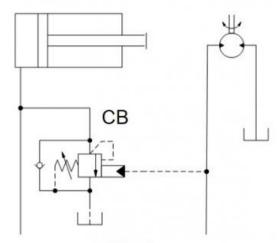


Fig.1

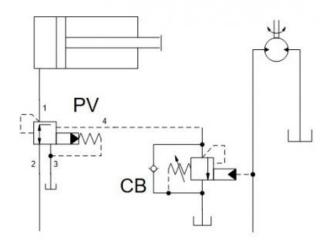


Fig.2

The circuits show a standard counterbalance valve as a bypass on a cylinder activated by the pressure for a hydraulic saw or drill motor.

Standard counterbalance valve: <u>CB**</u>
Ventable reducing relieving valve: <u>PV*B</u>

Benefits of this circuit arrangement:

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- Fig.1 The motor may be for a drill or a saw. The speed of the feeding cylinder is reduced when the pressure to drive the motor exceeds a pressure that is adjustable on the counterbalance valve. A variety of counterbalance valves are offered to allow stable interaction between two circuits.
- Fig.2 The counterbalance valve can also control a pressure-reducing valve type PV*B to control the feed/clamping cylinder.

For Sun technical support, contact Bernhard Kristen.

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