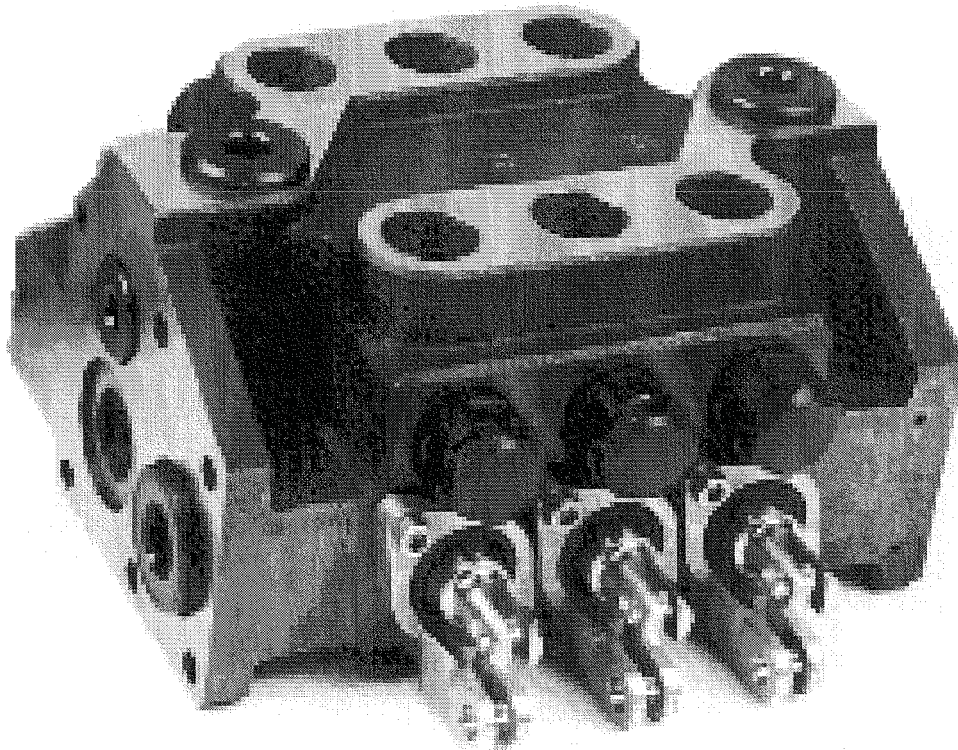
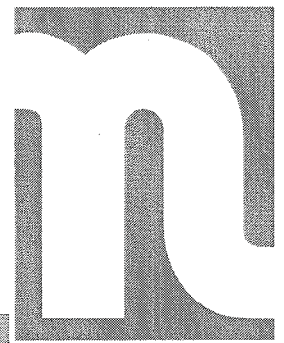


Directional Control Valve RM 310



The RM 310 is a modular parallel monoblock valve with 1 - 4 sections. It is designed for a maximum working pressure of 225 bar and for a recommended flow range of 40 - 120 l/min.

The valve has:

EXCELLENT CONTROL CHARACTERISTICS THROUGHOUT THE FLOW RANGE

Four groups of standard spools offer exceptional opportunities to optimize the control characteristics for particular applications.

FLOW CONTROL OVER A LARGE PROPORTION OF THE SPOOL TRAVEL

ensures good control of the load when inching as well as at full speed.

GOOD CONTROL CHARACTERISTICS

Several valve functions can be controlled simultaneously, even if the difference in load is high. Furthermore load check valves fitted between the functions prevent communication from highly to lowly loaded functions.

LOW AND UNIFORM LEVER FORCES

are the result of careful balancing of the flow forces acting on the spool during the flow controlling portion of the spool movement.

A WIDE RANGE OF REMOTE CONTROLS

satisfy widely differing demands in a variety of applications.

The RM 310 valve offers the system designer wide opportunities for adaptation to the relevant application and provides the operator with control characteristics that are a cut above average. Overall system efficiency is improved by the low energy consuming resistors of RM 310.



Technical Data

Max system pressure
(depending on appl.):225 bar 22,5 (MPa)

Max recommended pump flow:.....180 l/min

Operating force
directly on the spool:180 N (18kp)

Max continuous
return line pressure:.....10 bar (1,0 MPa)

Hydraulic fluid temperature range for
continuous operation:.....-15°C - + 80°C

Contamination level:

Normally

Equal to or better than ISO 18/14

At high system pressures and/or remote
control.....

Equal to or better than ISO 16/12

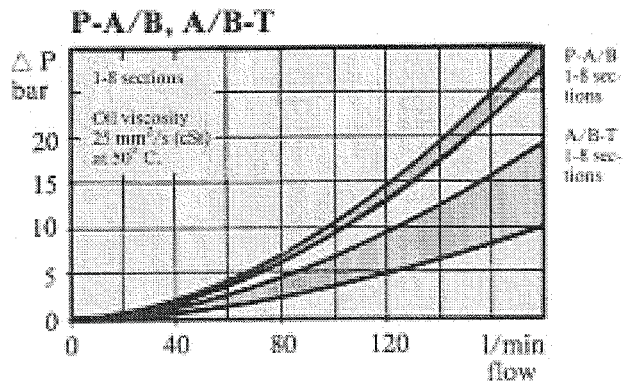
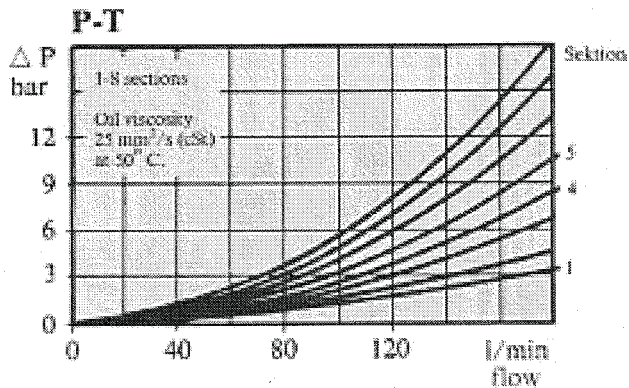
Hydraulic fluid viscosity range:

.....10-400 mm²/s (cSt)

Spool leakage at 100 bar och 30 mm²/s (cSt):

.....<10 cm³/min

Pressure drop



Control characteristics

Spool type D

Pump flow: 60 l/min

I = load pressure 50 bar

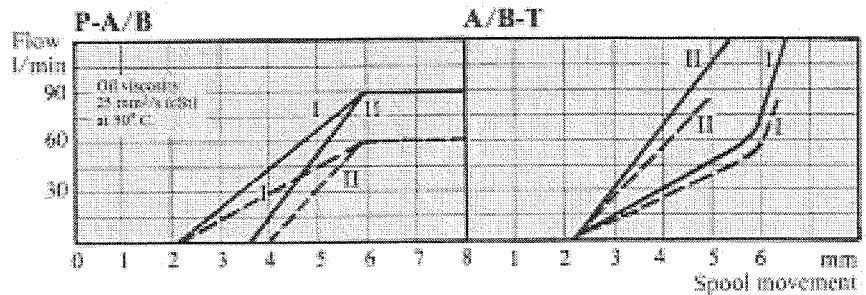
II = load pressure 250 bar

Spool type G

Pump flow: 90 l/min

I = load pressure 50 bar

II = load pressure 250 bar



Spool type K

Pump flow: 120 l/min

I = load pressure 50 bar

II = load pressure 250 bar

Spool type Q

Pump flow: 160 l/min

I = load pressure 50 bar

II = load pressure 250 bar

