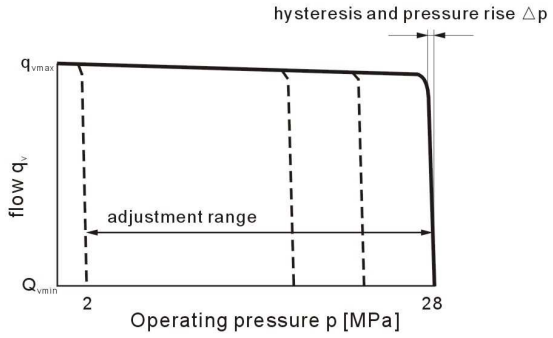
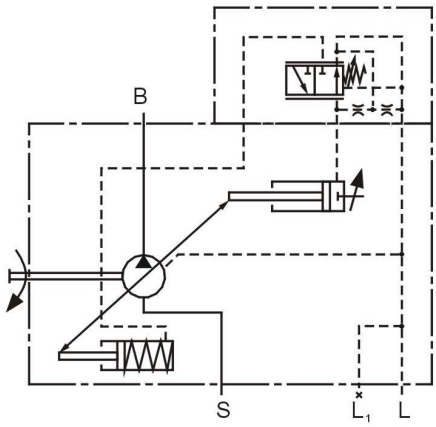
DR Pressure Contorl

The pressure controller serves to maintain a constant pressure in a hydraulic system within the control range of the pump. The pump therefore supplies only the amount of hydraulic fluid required by the system. Pressure may be steplessly set at the contorl valves.

Static operating curve

(at n_1=1500 rpm;t_{oil}=50℃)





Ports

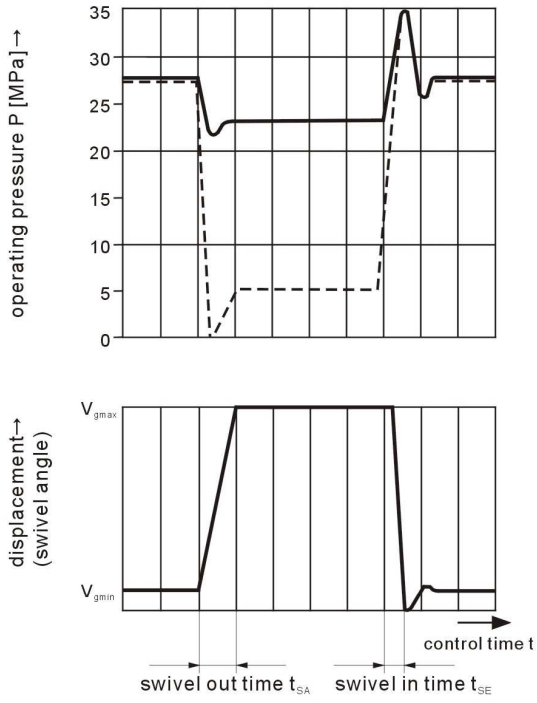
B	Pressure port
S	Suction port
L, L_1	Case drain ports (L_1 plugged)

Dynanmic operating curves

The operating curves are mean values measured under test conditions with the unit mounted inside the tank.

Conditions: n = 1500 rpm
t_{oil} = 50℃
Main relief set at 35 MPa

Load steps were obtained by suddenly opening and closing the pressure line with a pressure relief valve as load valve 1 m from the output flange of the pump.



Contorller Data

Hysteresis and repetitive accuracy △P _____max. 0.3 MPa

Max.pressure rise

Size		28	45	71	100	140
△P	MPa	0.4	0.6	0.8	1.0	1.2

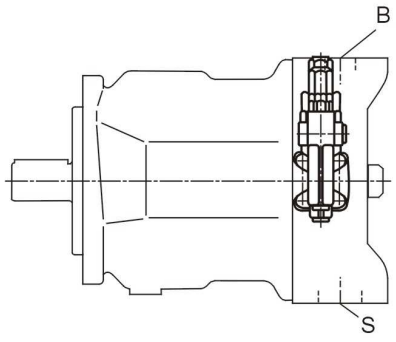
Polit oil requirement _____ Max.approx 3 L/min

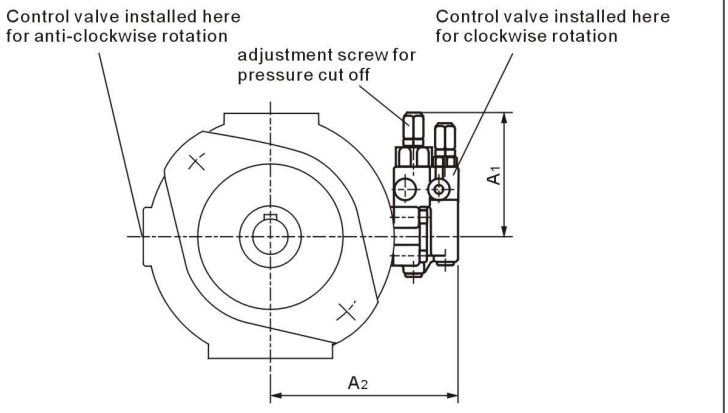
Control Times

Size	t_{SA} (ms) again 5 MPa	t_{SA} (ms) again 22 MPa	t_{SA} (ms) again 28 MPa
28	60	30	20
45	80	40	20
71	100	50	25
100	125	90	30
140	130	110	30

HA10VSO※DR/31R-※12N00

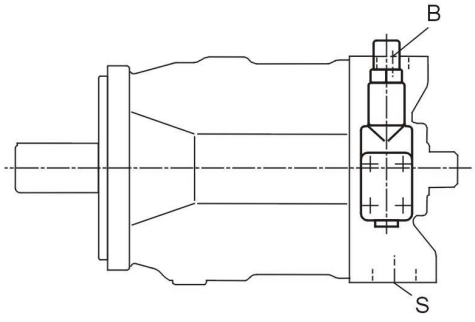
Sizes 28...100

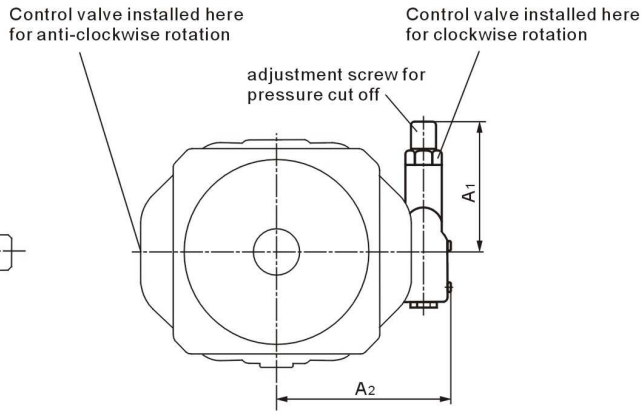




On sizes 28 to 100 the DFR valve used has the flow control spool blocked in the factory and is not tested.

Size 140





Size	A_1	A_2
28	109	136
45	106	146
71	106	160
100	106	165
140	127	169