ANCILLARY EQUIPMENT
MXR30T

MOTOR MOUNTED CROSS LINE RELIEF VALVE FOR MT SERIES MOTORS

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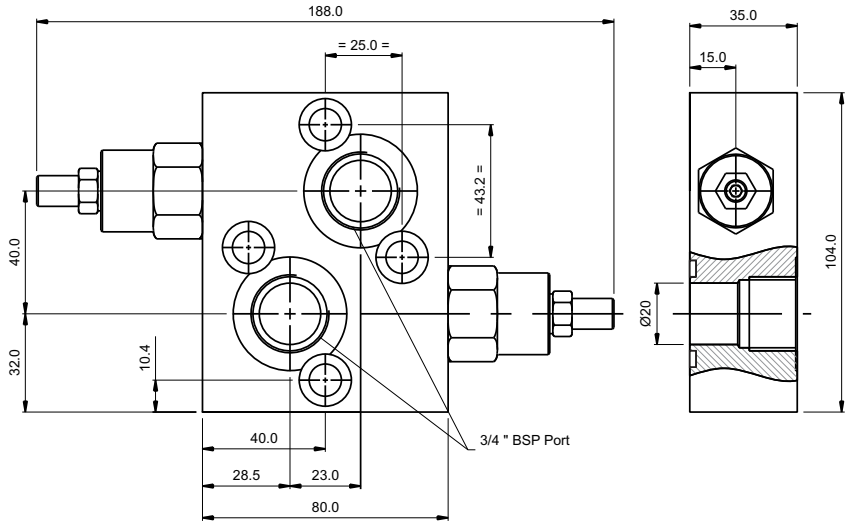


ORDERING CODE

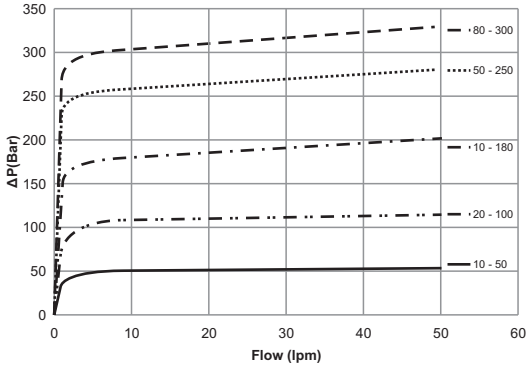
MXT 30T	D	50

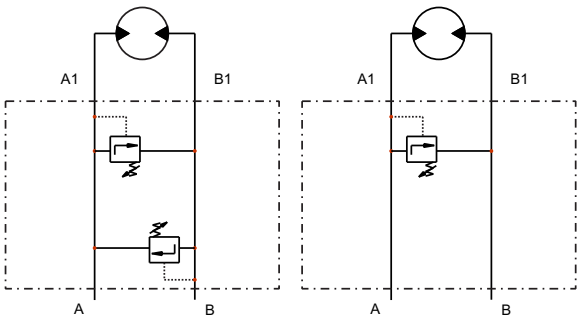
Type

Number of valves:
D - Double
SA - Single valve on A Side
SB - Single valve on B Side

Sprint Options

Order Code	Pressure Setting Range (Bar)	Pressure Increase (Bar/turn)	Standard Setting (Bar)
50	10 - 50	7	30
100	20 - 100	12	75
-Omit (Std)	10 - 180	30	90
250	50 - 250	45	130
300	80 - 300	50	150





Maximum Pressure : 300 Bar

Rated Nominal Flow : 60 lpm

Mineral based Hydraulic fluids with anti-wear additives are recommended with a viscosity of 35cSt at a temperature of 50^0 C.

Recommended oil cleanliness ISO 19/14 with a nominal filtration of 25 micron or better.

Tightening torque for mounting screws

The policy of Adan Limited is one of continual development and the right is reserved to alter specifications without notice.

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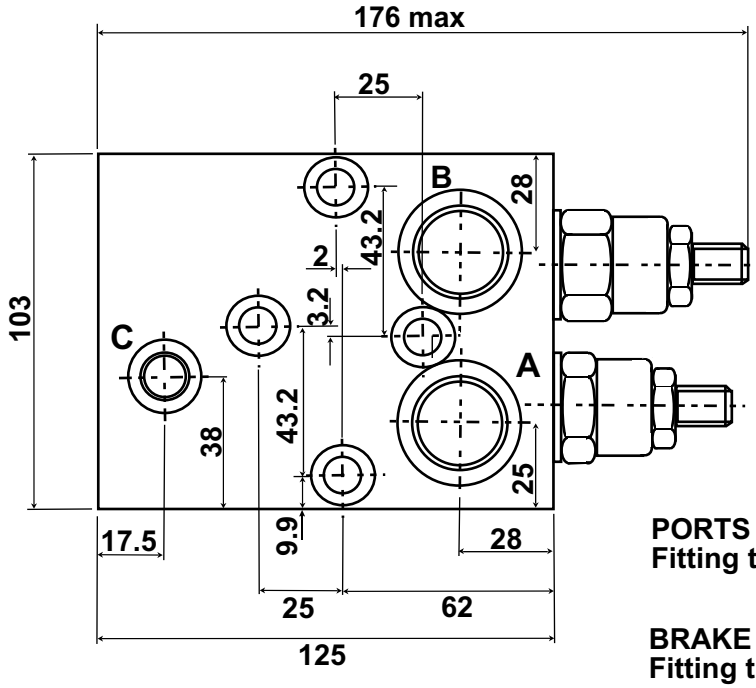
ANCILLARY EQUIPMENT
OCV30T

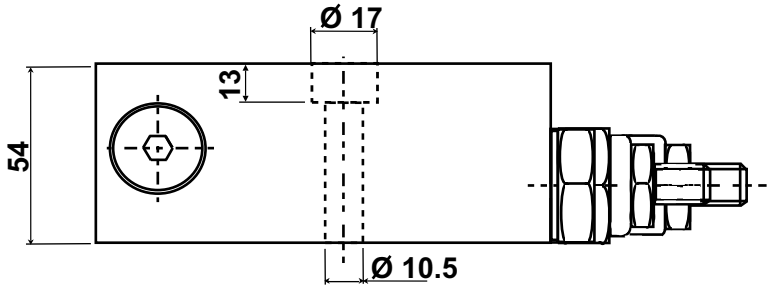
MOTOR MOUNTED OVER CENTRE VALVE FOR MT SERIES MOTORS

MOTOR MOUNTED OVER CENTRE VALVE FOR MT SERIES MOTORS



PORTS ‘A’ & ‘B’ 3/4” BSP X 17 DEEP
Fitting tightening torque 130 Nm

BRAKE PORT ‘C’ 1/4” BSP X 14 DEEP
Fitting tightening torque 30 Nm



Maximum pressure 280 bar 4060 psi
Pressure range 70-250 bar 1015 - 3625 psi
Maximum rated flow 100 lpm
Pilot ratio 4.25:1
Valve supplied complete with mounting screws & ‘o’ rings.
Valves are not pre-set should a set pressure be required please state at time of order.

Mineral based Hydraulic fluids with anti-wear additives are recommended with a viscosity of 35 mm^2/s at a temperature of 50°C.
Recommended oil cleanliness ISO 19/14 with a nominal filtration of 25 micron or better.
Steel body and valve sections
Tightening torque for mounting screws 35 Nm

WEIGHT 6 kg

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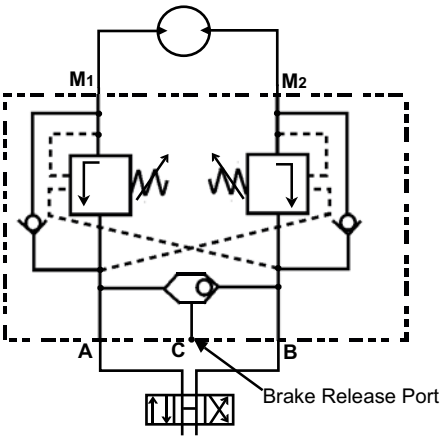
VALVE DETAILS

OPERATION

The check valve section allows free flow into the actuator, then holds and locks the load against movement.
The pilot assisted relief valve section will give controlled movement when pilot pressure is applied. The relief section is normally set to open at a pressure of at least 1.3 times the maximum load induced pressure but the pressure required to open the valve and allow movement depends on the pilot ratio of the valve.
The pressure required to open the valve and start movement can be calculated as follows:-



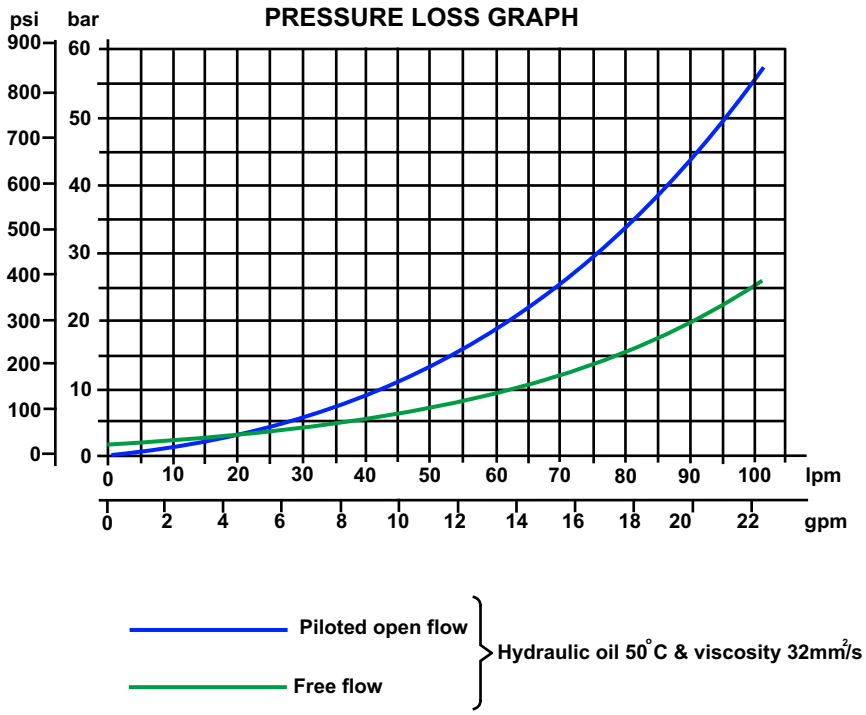
$$\text{Pilot Pressure} = \frac{\text{(Relief Setting) - (Load Pressure)}}{\text{(Pilot Ratio)}}$$

Example:- Pilot Ratio 4.25:1 Relief set at 145 bar (2100psi) and a load pressure of 114 bar (1650 psi)

$$\frac{\text{145bar (2100psi) - 114bar (1650psi)}}{\text{4.25}} = \text{7.3bar (105psi)}$$

Any increase in pilot pressure will result in an increase in load velocity and a reduction in pilot pressure, slowing and stopping load movement.
When used with an open centre directional valve it will allow thermal expansion relief of the hydraulic fluid.

These motor mounted valves have the load control of dual overcentre valves with the additional advantage of a brake release shuttle valve for smooth safe performance.



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