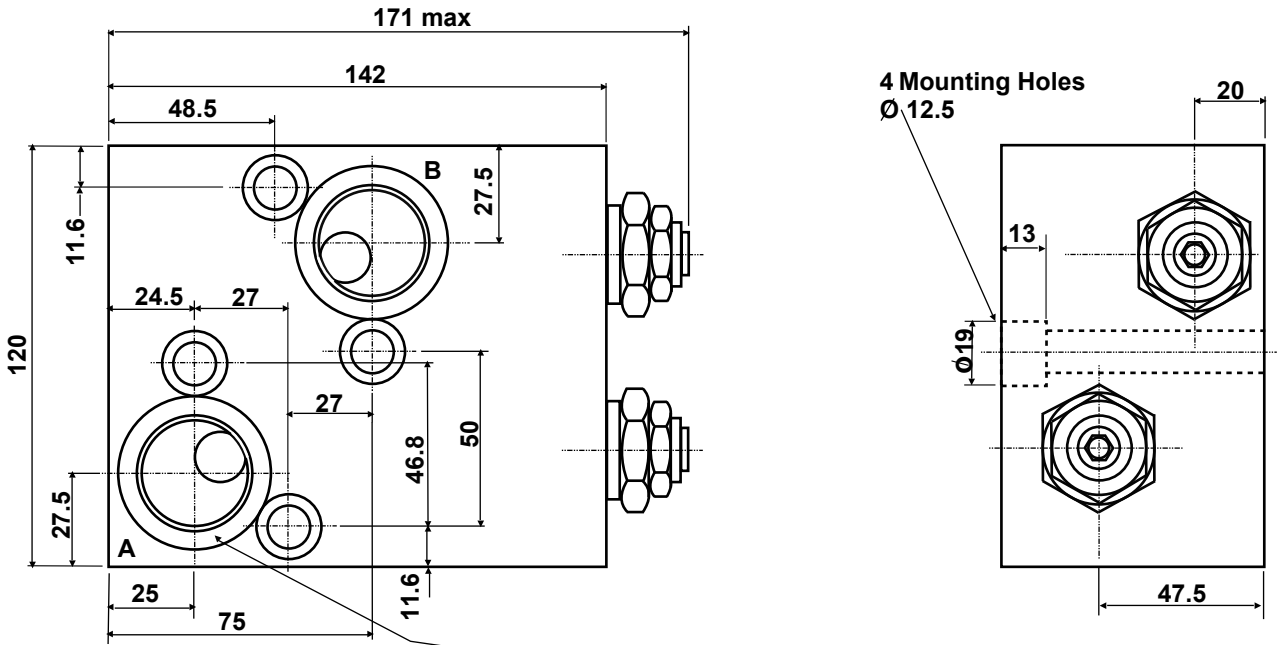
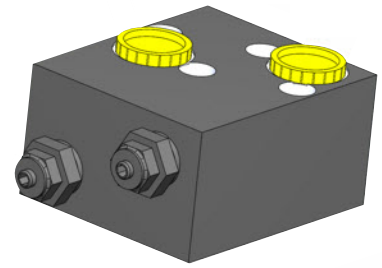


# ANCILLARY EQUIPMENT

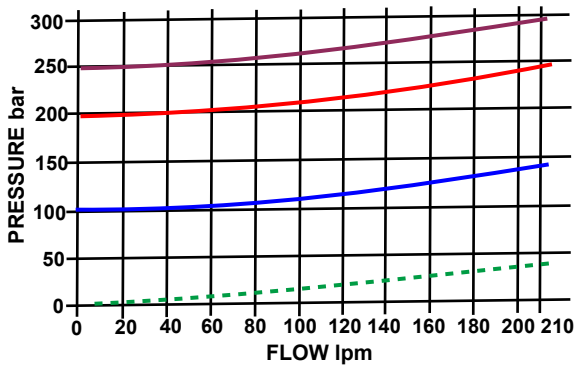
## MXR35V

**MOTOR MOUNTED CROSS LINE  
RELIEF VALVE for MV SERIES MOTORS**



Ports A & B 1" BSP x 20 Deep  
Spotfaced  $\varnothing$  44  
Fitting tightening torque 200 Nm

**PRESSURE GRAPH**



- Pressure 250bar (3625psi)
- Pressure 200bar (2900psi)
- Pressure 100bar (1450psi)
- - - Pressure 5bar

All ratings with hydraulic oil at 50°C & 32 mm<sup>2</sup>/s

Maximum pressure 3625 psi 250 bar  
Minimum pressure setting 1160 psi 20 bar  
Nominal rated flow 200 lpm

Valves supplied complete with mounting screws & 'O' Rings.

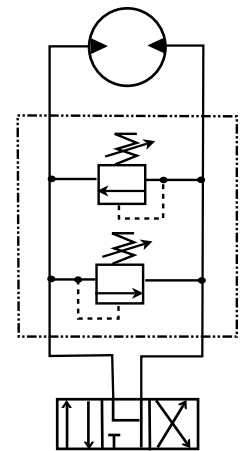
Valves are not pre-set, should a set pressure be required please specify at time of order.

Mineral based Hydraulic fluids with anti-wear additives are recommended with a viscosity of 35 mm<sup>2</sup>/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 75 Nm

WEIGHT 8 kg



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



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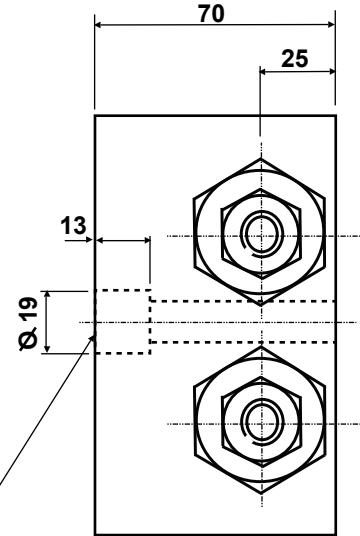
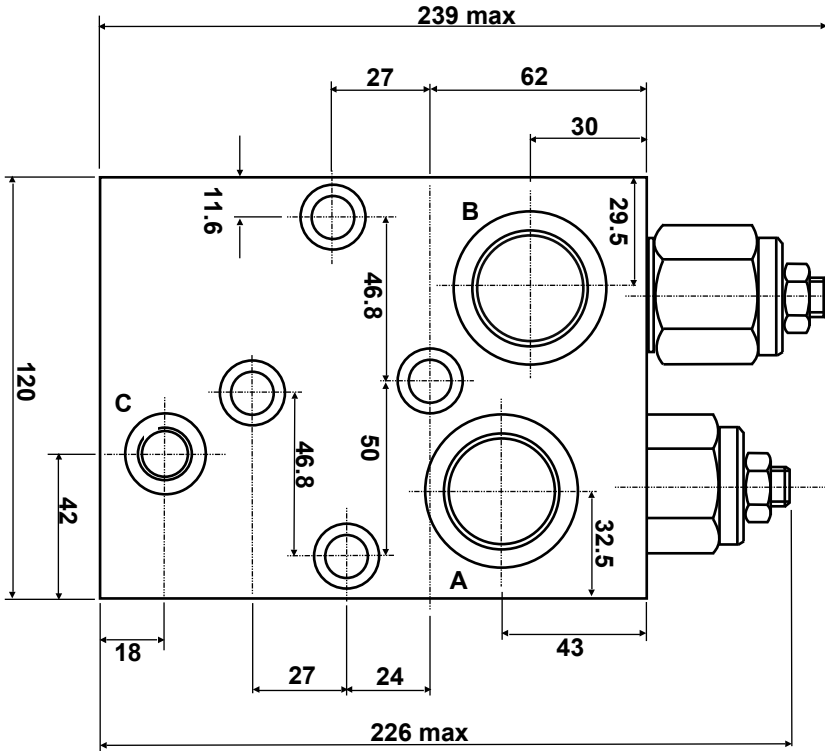
website: www.adanltd.co.uk



# ANCILLARY EQUIPMENT

## OCV 35V

### MOTOR MOUNTED OVER CENTRE VALVE for MV SERIES MOTORS



4 Mounting holes  
Ø 12.5 through

Ports A & B 1" BSP x 20 Deep  
Fitting tightening torque 200 Nm

Port C Brake Release Port 1/4" BSP x 14 Deep  
Fitting tightening torque 30 Nm

Maximum pressure 250 bar 3625 psi  
Pressure range 70-250 bar 1015 - 3625 psi  
Maximum rated flow 200 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<sup>2</sup>/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 65 Nm  
WEIGHT 9.75 kg

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## 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:-

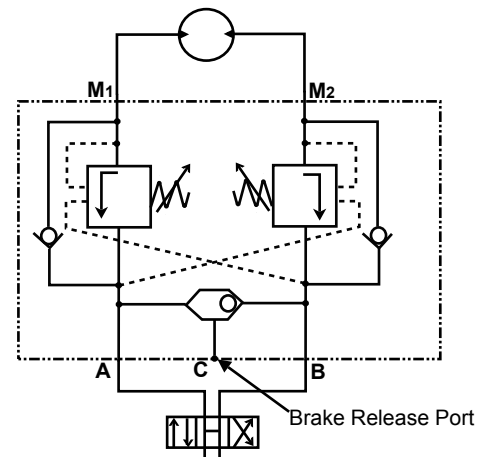
$$\text{Pilot Pressure} = \frac{(\text{Relief Setting}) - (\text{Load Pressure})}{(\text{Pilot Ratio})}$$

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

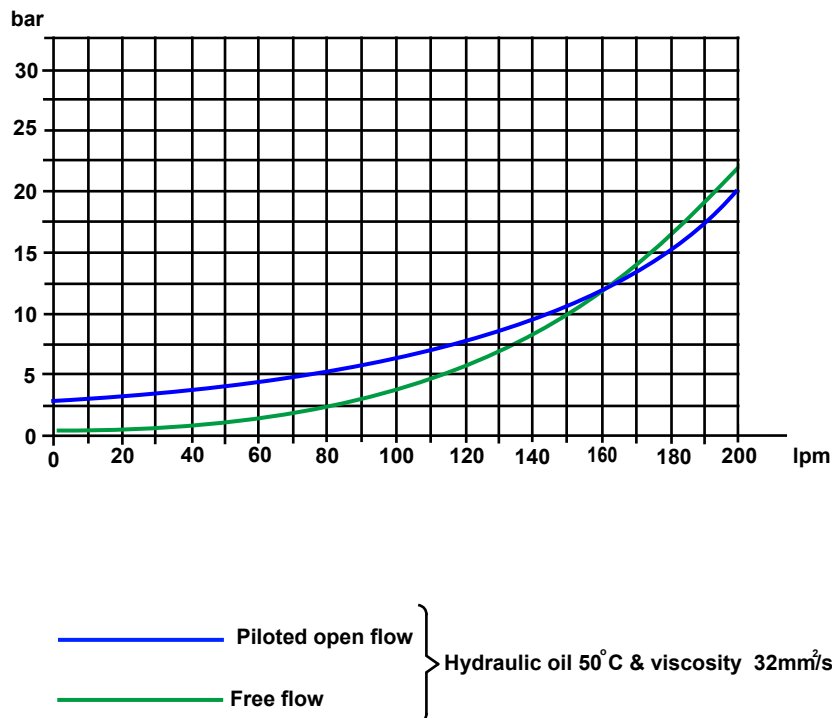
$$\frac{145\text{bar (2100psi)} - 114\text{bar (1650psi)}}{4.25} = 7.3\text{bar (105psi)}$$

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.



**PRESSURE LOSS GRAPH**



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