

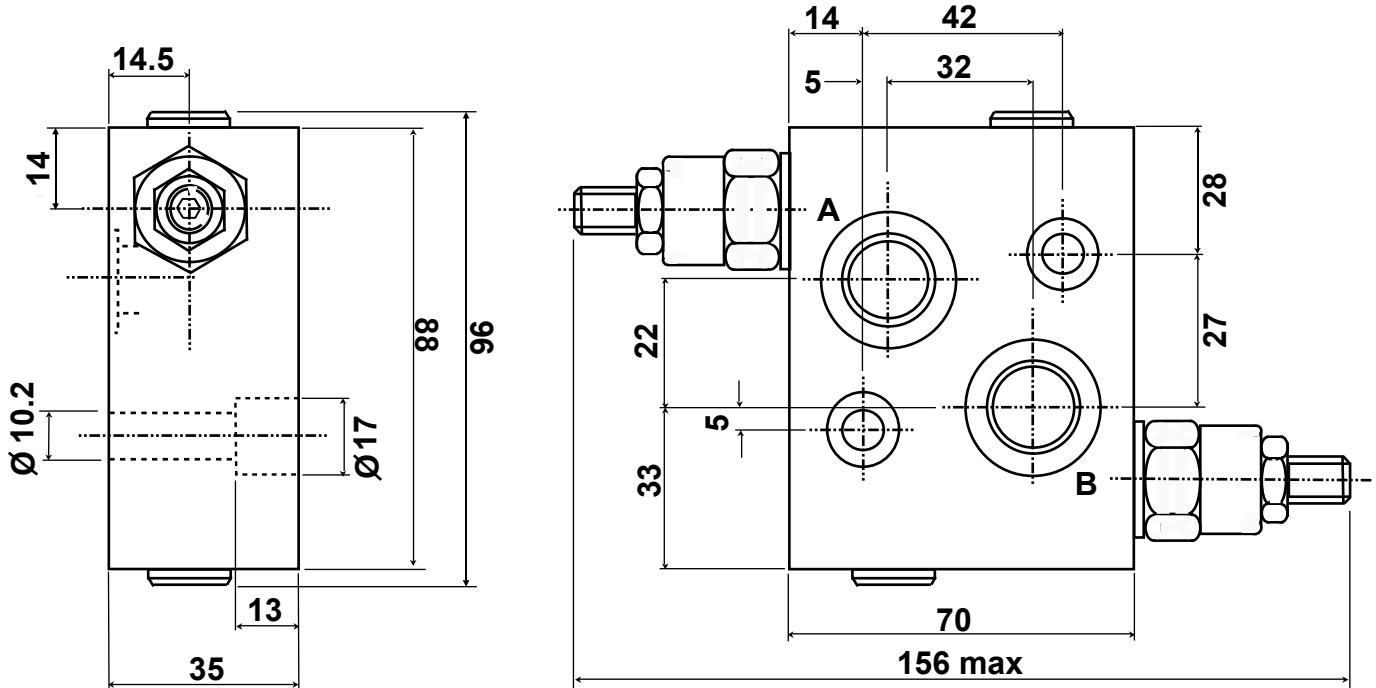


ANCILLARY EQUIPMENT

MXR25S



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



**Ports A & B 1/2" BSP x 15 Deep
Fitting tightening torque 80 Nm**

Maximum Pressure 300 bar 4350 psi

Pressure range 80 - 300 bar

Nominal Flow 60 lpm

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

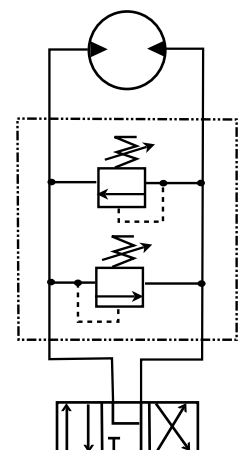
Valves are not pre-set, should a set pressure be required please specify at time of order.

Mineral based Hydraulic fluids with anti-wear additives are recommended with a viscosity of 35 mm²/s at a temperature of 50° C Recommended oil cleanliness ISO 19/14 with a nominal filtration level 25 micron or better.

Steel body and valve sections.

Tightening torque for mounting bolts 35 Nm

Weight 1.5 kg



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



ADAN LIMITED

RIVERSIDE IND. ESTATE BOSTON LINCOLNSHIRE ENGLAND

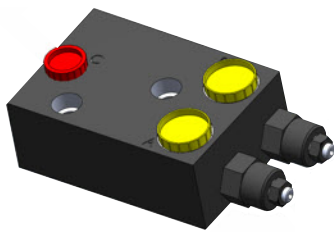
Tel: +44 (01205) 311500

email: sales@adanltd.co.uk

Fax: +44 (01205) 358013

website: www.adanltd.co.uk

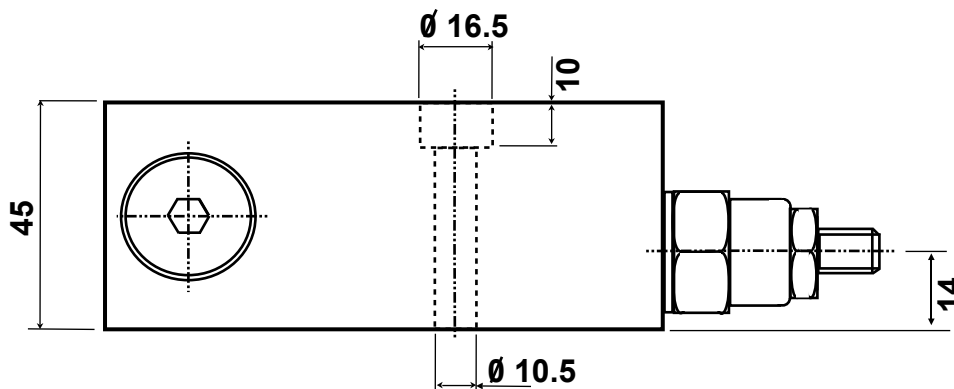
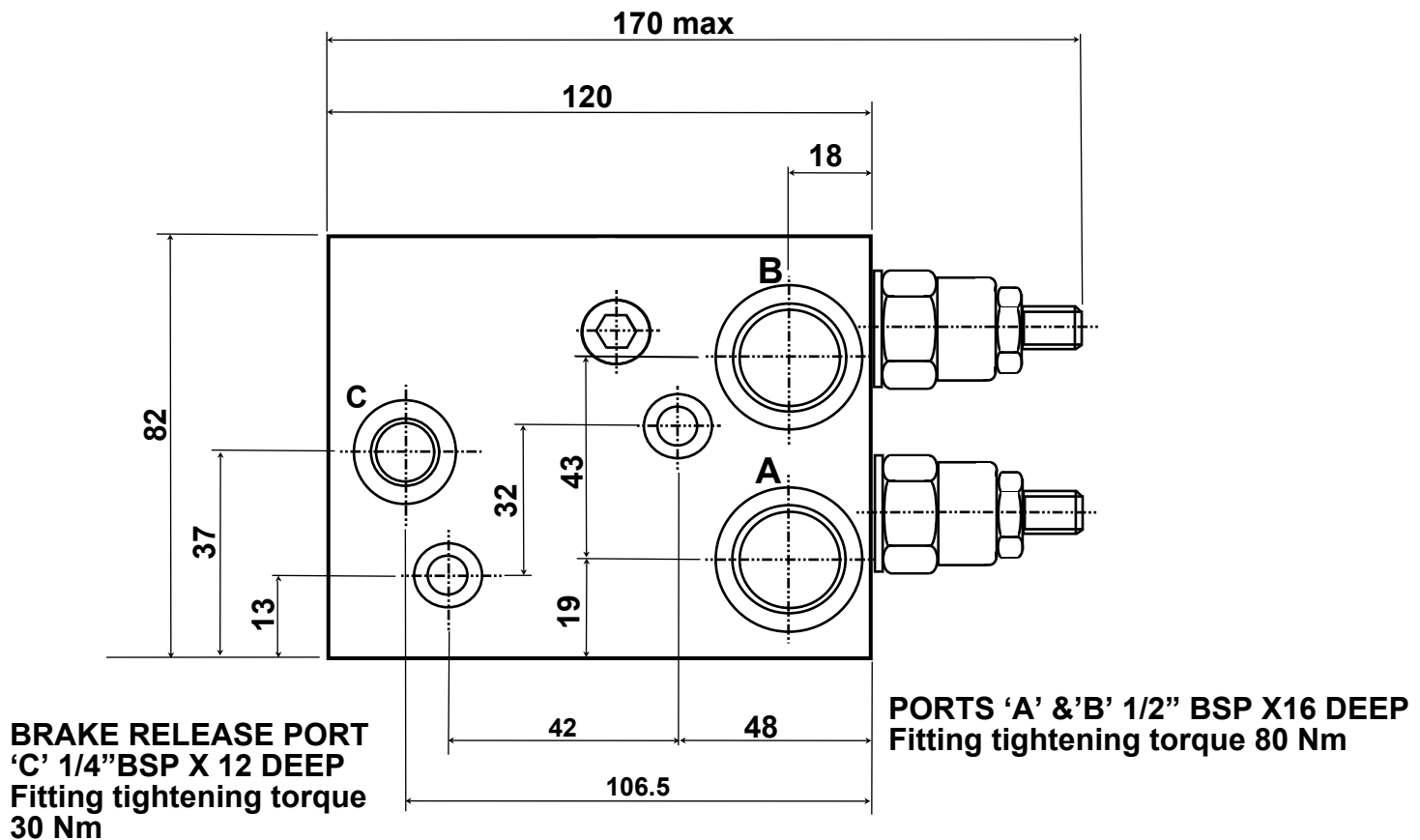
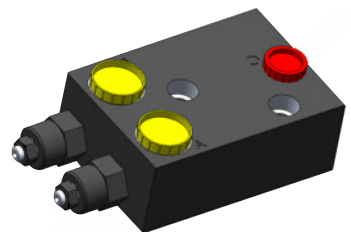




ANCILLARY EQUIPMENT

OCV 25S

**MOTOR MOUNTED OVERCENTRE
VALVE for MS SERIES MOTORS**



Maximum pressure 280 bar 4060 psi
 Maximum rated flow 60 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 35mm²/s at a temperature of 50°C.
 Recommended oil cleanliness ISO 19/14 with a filtration level 25 micron or better.
 Steel body and valve sections
 Tightening torque for mounting screws 35 Nm.

Weight 3 kg

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



ADAN LIMITED

RIVERSIDE IND. ESTATE BOSTON LINCOLNSHIRE ENGLAND
 Tel: +44 (01205) 311500 Fax: +44 (01205) 358013
 email: sales@adanltd.co.uk website: www.adanltd.co.uk



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:-

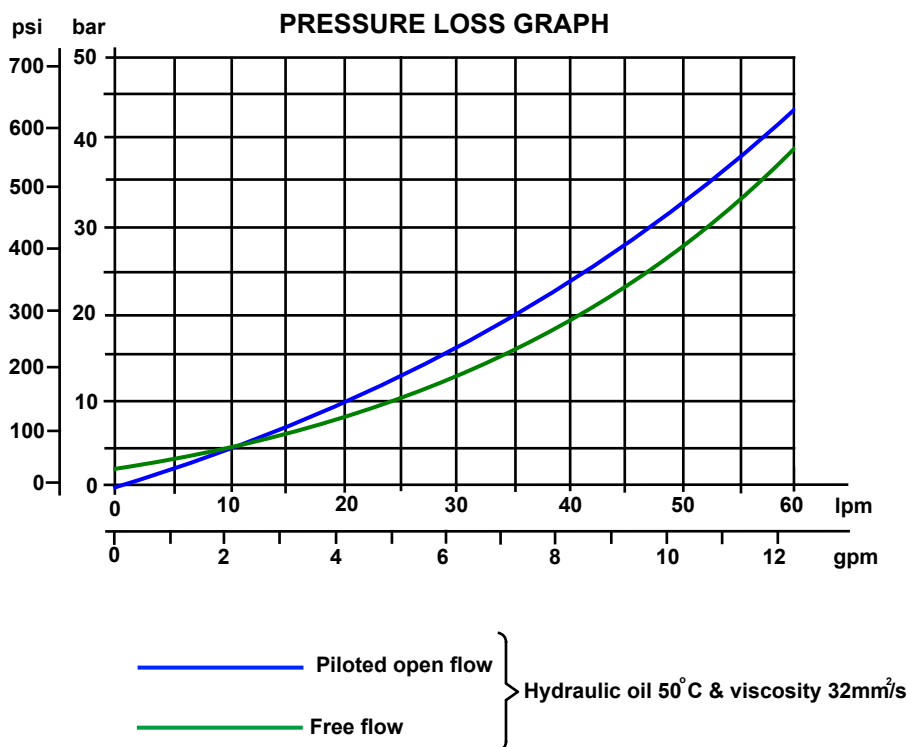
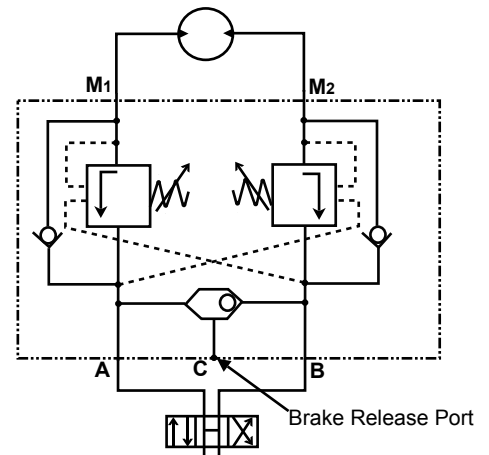
$$\text{Pilot Pressure} = \frac{(\text{Relief Setting}) - (\text{Load Pressure})}{(\text{Pilot Ratio})}$$

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.



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



ADAN LIMITED

RIVERSIDE IND. ESTATE BOSTON LINCOLNSHIRE ENGLAND
 Tel: +44 (01205) 311500 Fax: +44 (01205) 358013
 email: sales@adanltd.co.uk website: www.adanltd.co.uk

