

# G3/8 RELIEF VALVE 40 LITRE

The 40 litre per minute relief valve is a very reliable direct acting cartridge valve. It can be used in the Hy-Pro range of V1-40 sectional valves or as an inline valve within a manifold. Two relief valves together in a purpose built manifold give dual line relief commonly used to prevent shock loads in hydraulic motors and equal ended cylinders.



## Description

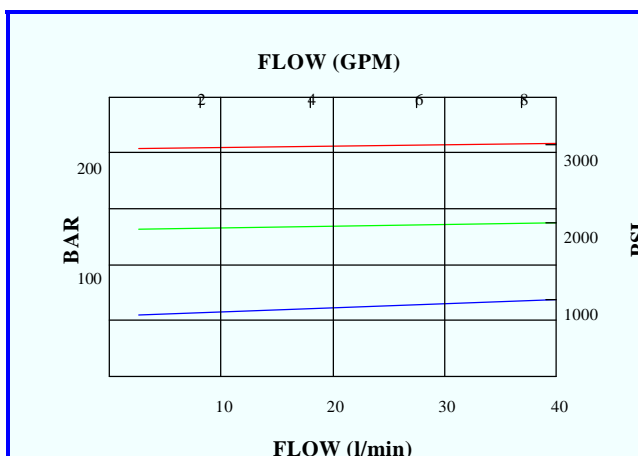
The adjustable relief valve cartridge is a direct acting valve of the differential piston type. With a stable performance and good flow/pressure hysteresis, the hardened steel piston and viton seal give a long life with a high degree of dirt tolerance. It can be supplied as a cartridge in a manifold for inline relief and two together in a manifold for dual line relief.

## Application





Designed to relieve pressures up to 210 bar and 40 litres per minute in all industrial, mobile, marine and agricultural applications. The dual line relief valves are commonly used to prevent shock loads in hydraulic motors and balanced cylinders.

## Features

- Adjustable.
- Cartridge type.
- Two and three port manifolded.
- Dual line relief manifolded.
- Direct acting.
- Dirt tolerant.
- Long life.



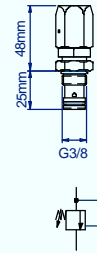
**ORDER CODES**

V1835  Direct Acting Relief Valve Adjustable  
 Cartridge Set 140 Bar  
 Cartridge Knob Adjusted  
 Cartridge (Low Pressure) Set 150 Bar

V1835  Direct Acting Relief Valve Adjustable  
 Manifold & Cartridge Set 140 Bar  
 Manifold & Cartridge Knob Adjusted  
 Manifold & Cartridge (Low Pressure) Set 140 Bar  
 Manifold & Cartridge Set xxx Bar

 Manifold & Cartridge Set 140 Bar  
 Manifold & Cartridge Knob Adjusted  
 Manifold & Cartridge (Low Pressure) Set 140 Bar  
 Manifold & Cartridge Set xxx Bar  
 Manifold & 2 Cartridges set 140 Bar

V1835C



**Technical Data**

**Performance**

Rated flow 40 l/min  
 Max pressure 210 bar  
 Temperature rating: min -20°C  
 Temperature rating: max +65°C  
 Manifold ports G3/8  
 Relief re-seat 80% of setting

**Recommended Oil**

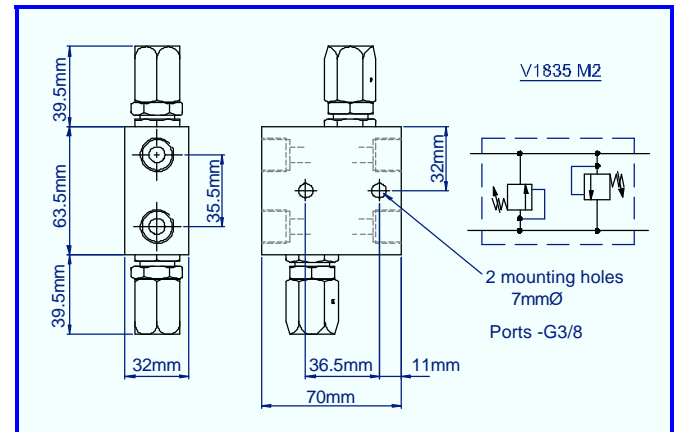
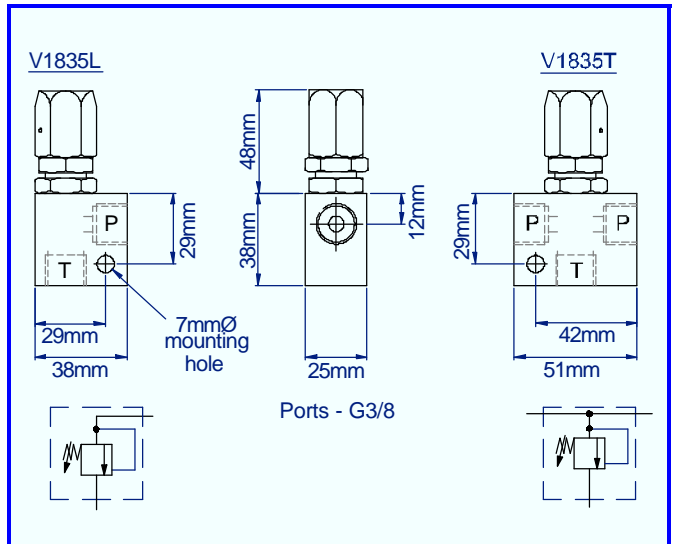
Mineral based hydraulic ISO VG37  
 Filtration (minimum) 25 micron

**Materials**

Body – Nitrotec NQ3  
 Piston – Hardened BC Standard 0,19  
 Cap – Zinc chromate BS 1706 Zn3  
 Manifold – Aluminium BS 1490  
 Tightening torque 13.5 Nm  
 Seals - reciprocating Viton  
 Seals – static Nitrile

**Weights**

V1835 C 0.13 kg  
 V1835 L 0.20 kg  
 V1835 T 0.22 kg  
 V1835 M2 0.54 kg



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