

## 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

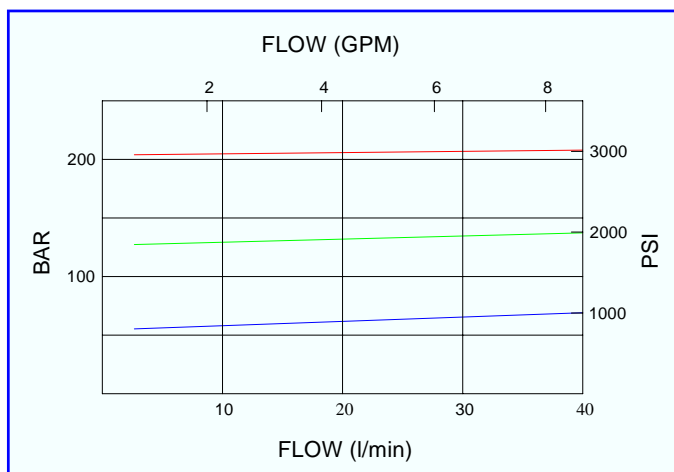
The adjustable relief valve cartridge is a direct acting valve of the differential piston type. With a stable performance and good flow/pressure hysteresis, the hardened steel piston and viton seal give a long life with a high degree of dirt tolerance. It can be supplied as a cartridge in a manifold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

**CARTRIDGE ONLY**

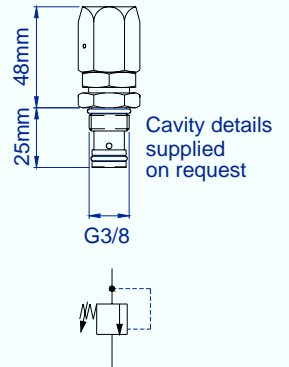
V1835		
	<b>C</b>	Cartridge Only Set 140 Bar
	<b>CX</b>	Cartridge set xxx Bar
	<b>CK</b>	Cartridge Knob Adjusted
	<b>C LP</b>	Cartridge (Low Pressure) Set xxx Bar
	<b>C HP</b>	Cartridge (High Pressure) Set xxx Bar

**IN MANIFOLD**

V1835		
	<b>KL</b>	'L' Manifold & Cartridge Knob Adjusted
	<b>KT</b>	'L' Manifold & Cartridge Knob Adjusted
	<b>L</b>	'L' Manifold & Cartridge Set 140 Bar
	<b>LX</b>	'L' Manifold & Cartridge Set xxx Bar
	<b>L LP</b>	'L' Manifold & Cartridge (Low Pressure) Set xxx Bar
	<b>L HP</b>	'L' Manifold & Cartridge (High Pressure) Set xxx Bar
	<b>T</b>	'T' Manifold & Cartridge Set 140 Bar
	<b>TX</b>	'T' Manifold & Cartridge Set xxx Bar
	<b>T LP</b>	'T' Manifold & Cartridge (Low Pressure) Set xxx Bar
	<b>T HP</b>	'T' Manifold & Cartridge (High Pressure) Set xxx Bar
	<b>M2</b>	Dual-Line Manifold & 2 Cartridges set 140 Bar

Please note. Unless otherwise requested relief valves are set 'full open' at 20 lpm / Shell Tellus 37 / 30 to 40 degrees C.

**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

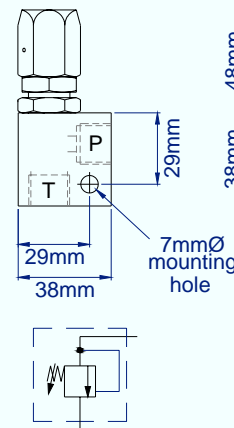
**Materials**

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

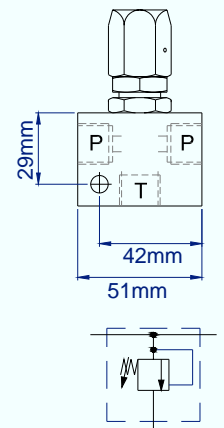
**Weights**

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

**V1835L**



**V1835T**



Ports - G3/8

