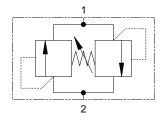
1CLLR50 - Dual Relief Valve

Poppet, direct acting, differential area 50 L/min (12 USgpm) • 250 bar (3500 psi)



Operation

Pressure acts over one of two differential areas forcing the poppet back allowing relief flow to the other port.

This being a single cartridge is ideal for mounting on to a motor in a special housing.

Features

Single cartridge relieving in both directions cutting down space requirements, giving full adjustment through its range on both pressures at the same time.

Sectional View

2 (P) 1 (P)

Performance Data

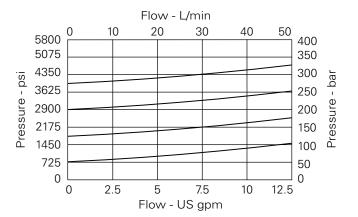
Figures based on: Oil Temp = 40° C Viscosity = 32 cSt (150 SUS)			
ated flow 50 L/min (12			
Max pressure	250 bar (3500 psi)		
Cartridge material	Working parts hardened and ground steel. External steel surfaces zinc plate.		
Body material	Standard aluminium (up to 210 bar*). Add suffix "377" for steel option.		
Mounting position	Unrestricted		
Cavity number	C-10-2 (See Section M)		
Torque cartridge into cavity	60 Nm (44 lbs ft		
Weight	1CLLR50 0.23 kg (0.5 lbs) 1CLLR55 0.8 kg (1.8 lbs)		
Seal kit number	SK1028 (Nitrile SK1028V (Viton [®]		
Recommended filtration level	BS5540/4 Class 18/13 (25 micron nominal)		
Operating temp	-30° to +90°C (-22° to +194°F)		
Leakage	5 milliliters/min		
Nominal viscosity range	5 to 500 cSt		

Viton is a registered trademark of E.I. DuPont

Description

This is a direct acting bi-directional relief valve designed to protect both lines in a circuit from over pressurization by relieving oil to the other line. Ideal for use with motors or directional valves as an emergency relief. Differential area, fast acting, poppet valve.

Pressure Drop Curves



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

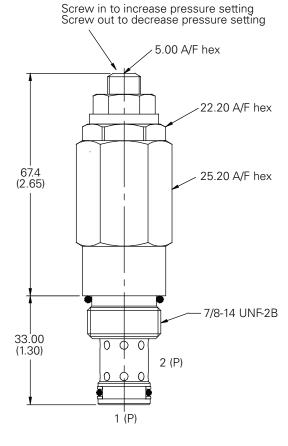




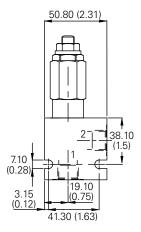
1CLLR50 - Dual Relief Valve

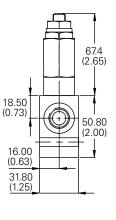
Poppet, direct acting, differential area 50 L/min (12 USgpm) • 250 bar (3500 psi)

Model Code	1CLLR** – F		
1Function1CLLR50 -Cartridge Only1CLLR55 -Cartridge andBody	3 Port Sizes Code Port Size	Housing Number - Body Only Aluminium Steel Single Single	 Pressure Range Note: Code based on pressure in bar. 25 - 75-200 bar. Std patting 120 bar.
2 Adjustment Means F - Screw Adjustment	3W 3/8" BSP 4W 1/2" BSP 6T 3/8" BSP 8T 1/2" SAE	B19053 B20598 B19356 B20599 B19401 B20600 B19402 B20601	 Std setting 120 bar Seals Nitrile (For use with most industrial hydraulic oils) SV - Viton® (For high temperature and most special fluid applications)
Dimensions mm (inch) Cartridge Only Basic Code 1CLLR50		Complete Valve 3/8", 1/2" Ports Basic Code 1CLLR55	



CLLR55





Note: For applications above 210 bar please consult our technical department or use the steel body option.





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