



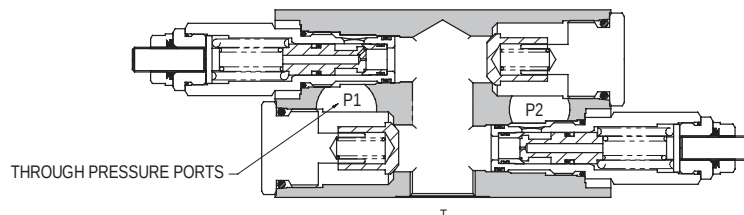
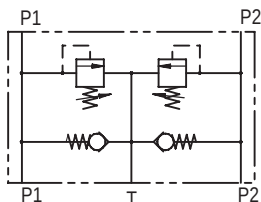
1LLRC SERIES DUAL RELIEF VALVE

WITH MAKE UP CHECKS - DIRECT ACTING

1LLRC75

POPPET TYPE

3



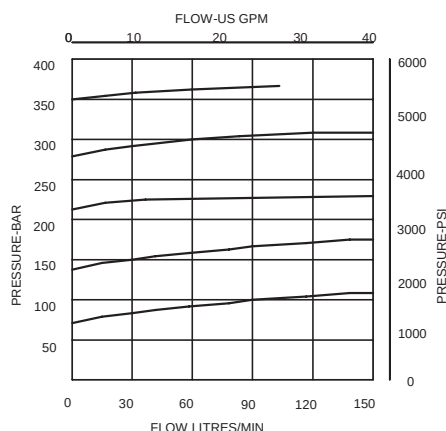
APPLICATION

This is a dual relief with make up checks. Ideal for use to protect a system where relief volumes are different such as in a single rod cylinder or where leakage may cause cavitation as in the case of motors with a case drain. It can also be used to protect directional valves when they have a closed centre condition.

OPERATION

The valve functions as a cross line relief passing oil from one line to the other but with an extra tank port which allows make up flow or extra exhaust flow to take place.

PRESSURE DROP



FEATURES

Soft start and stop with fast acting operation to give maximum protection to expensive actuators. Reduces plumbing to a minimum and cartridge relief valves make for easy maintenance.

SPECIFICATIONS

Figures based on: Oil Temp = 40°C Viscosity = 40 cSt

Rated Flow	150 litres/min (40 US GPM)
Max Setting	350 bar (5000 psi)
Cartridge Material	Working parts hardened and ground steel. External steel surfaces black oxide
Body Material	Standard aluminium (up to 210 bar*) Add Suffix '377' for steel option
Mounting Position	Line mounted
Weight	2.60 kg (5.71 lbs)
Seal Kit Number	SK171 (Nitrile) SK171V (Viton)
Recommended Filtration Level	BS5540 Class 18/13 (25 micron nominal)
Operating Temp	-20°C to +90°C
Leakage	0.3 millilitres/min max (5 dpm)
Nominal Viscosity Range	5 to 500 cSt

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

Integrated Hydraulics Ltd

Collins Road, Heathcote Ind. Est., Warwick, CV34 6TF, UK.
Tel: +44 (0) 1926 881171 Fax: +44 (0) 1926 315729
Website: www.integratedhydraulics.com

Integrated Hydraulics Inc

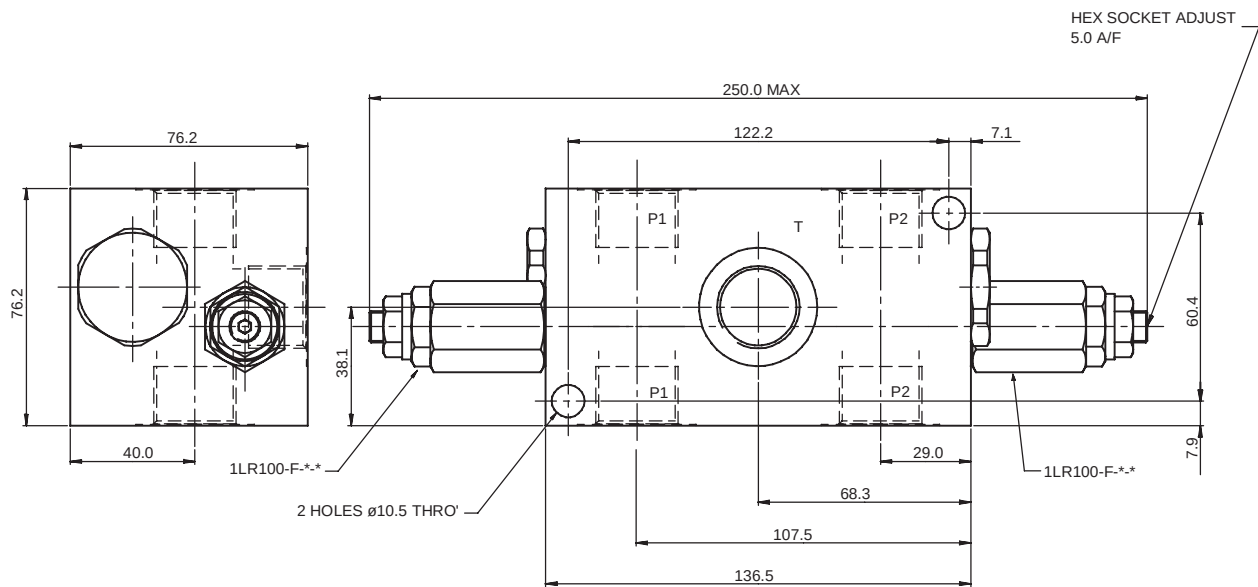
7047 Spinach Drive, Mentor, Ohio 44060, USA
Tel: (440) 974 3171 Fax: (440) 974 3170
Website: www.integratedhydraulics.com

COMPLETE VALVE 3/4" PORTS

BASIC CODE: 1LLRC75

Sub-assembly part numbers

BSP, aluminium	SAE, aluminium	BSP, steel	SAE, steel
3/4" CXP21694-6W-S	3/4" CXP21694-12T-S	3/4" CXP21694-6W-S-377	3/4" CXP21694-12T-S-377



Tightening torque of "F" adjuster
locknut - 20 to 25 Nm

Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE

1LLRC75 F 6W 35 S

Basic Code

1LLRC75 = Cartridge and Body

Adjustment Means

F = Screw Adjustment

Port Sizes - Bodied Valves Only

6W = 3/4" BSP **12T** = 3/4" SAE

Seals

S = Nitrile (For use with most industrial hydraulic oils)
SV = Viton (For high temperature and most special fluid applications)

Pressure Range @ 14 l/min

17 = 35-175 bar. Std setting 105 bar
28 = 75-285 bar. Std setting 170 bar
35 = 114-350 bar. Std setting 280 bar
Std setting made at 14 litres/min

We reserve the right to change specifications without notice