LMWIA

Load Control Valve

DESCRIPTION

A cartridge-style vented, load reactive, load control valve

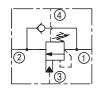
OPERATION

Vented, load reactive load control valves with pilot assist combine two valves: a check valve and a relief valve. The check valve allows free flow from port ② to port ① while a direct-acting, pilot-assisted relief valve controls flow from port ① to port ②. Pilot assist at port ③ lowers the effective setting of the relief valve at a rate determined by the pilot ratio. Backpressure at port ② does not affect the valve setting because the spring chamber references the vent (port ④).

FEATURES

- Load control valves should be set at least 1.3 times the maximum load induced pressure. (1.5 times when the setting is less than 140 bar)
- Reseat exceeds 77% of set pressure when the valve is standard set. Setting lower than the standard set pressure may result in lower reseat percentages.
- This valve is functionally a 4-port counterbalance valve. It seats as a poppet valve and modulates as a spool valve, offering the best of both valve types.
- •This valve has full relief capacity.
- Factory pressure setting established at 30cc/min(2 in3/min).

SYMBOL

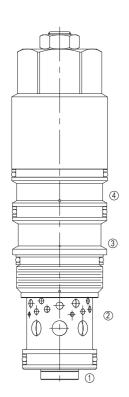


SPECIFICATIONS

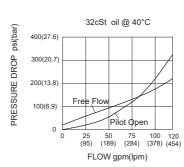
Max. Setting	350 ba
Max. Recommended Load Pressure at Max. Setting	
Flow	See PRESSURE DROP VS.FLOW graph
Internal Leakage	5 drops/min
Pilot Rate	3:
Check Cracking Pressure	1.7 ba
Temperature	-40°F to +250°F(-40°C to +120°C
Filtration	See Page N-
Fluids	Mineral-based fluids with viscosities of 7.4 to 420 cSt
Cavity	SUN T-24A,See page M-33
Housing Material	

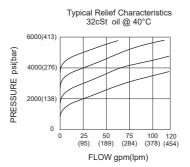
Housing Material

6061-T6 aluminum alloy rated to 207bar, Steel & Ductile iron rated to 350bar



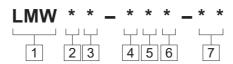
PRESSURE DROP VS.FLOW







TO ORDER



1 Function

LMW=Load Control Valve

2 Flow

I=480L/min

3 Pilot Ratio

A=3:1

4 Control

L= Standard Screw Adjustment

5 Spring Ranges

H=1000-4000psi(70-280bar) Preset:3000psi(210bar) J=2000-5000psi(140-350bar) Preset:3000psi(210bar)

6 Seal Kits

N=Buna N V=Viton 7 Port Size

Omit=None 16T=SAE16 20T=SAE20 8G=G 1 10G=G 1/4

XOther port sizes are available

INSTALLATION DIMENSIONS

Unit=Millimeters

