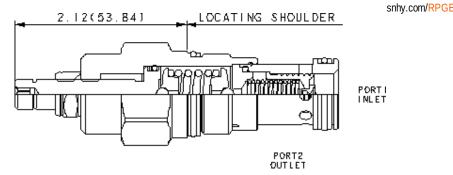


# CONFIGURATION

L	Control	Standard Screw Adjustment
Α	Adjustment Range	100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting
Ν	Seal Material	Buna-N
(none) Material/Coating		Standard Material/Coating



Fast-acting, pilot-operated, balanced piston relief cartridges are normally closed, pressure-limiting valves used to protect hydraulics components from pressure transients. Fast opening and closing is gained at the expense of smoothness. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to limit the pressure rise. These valves have low pressure rise vs. flow and are very fast.

### **TECHNICAL DATA**

Factory Pressure Settings Established at	4 gpm	
Maximum Operating Pressure	5000 psi	
Response Time - Typical	2 ms	
Maximum Valve Leakage at 110 SUS (24 cSt)	3 in <sup>3</sup> /min.@1000 psi	
Adjustment - Number of Clockwise Turns to Increase Setting	5	
Locknut Hex Size	9/16 in.	
Locknut Torque	80 - 90 lbf in.	
Seal kit - Cartridge	Buna: 990-203-007	
Seal kit - Cartridge	Polyurethane: 990-003-002	
Seal kit - Cartridge	Viton: 990-203-006	

NOTES For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

### **CONFIGURATION OPTIONS**

#### Model Code Example: RPGELAN

CONTROL (	L) ADJUSTMENT RANGE (A)	SEAL MATERIAL	(N)	MATERIAL/COATING
<ul> <li>L Standard Screw Adjustment</li> <li>C Tamper Resistant - Factory Set</li> <li>K Handknob</li> <li>O Handknob with Panel Mount</li> </ul>	<ul> <li>A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting</li> <li>B 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting</li> <li>C 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting</li> <li>D 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting</li> <li>E 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting</li> <li>W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting</li> </ul>	V Viton		Standard Material/Coating /AP Stainless Steel, Passivated

### **TECHNICAL FEATURES**

- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- Will accept maximum pressure at port 2; suitable for use in cross port relief circuits. If used in cross port relief circuits, consider spool leakage.
- Main stage orifice is protected by a 150 micron stainless steel screen.
- Not suitable for use in load holding applications due to spool leakage.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge
  machining variations.

## PERFORMANCE CURVES

