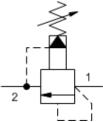
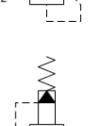


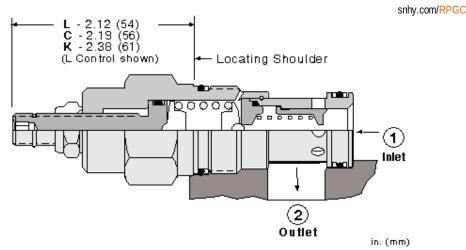
MODEL **RPGC**

Pilot operated, balanced piston relief valve SERIES 2 / CAPACITY: 50 gpm / CAVITY: T-3A









Pilot-operated, balanced-piston relief cartridges are normally closed pressure regulating valves. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to regulate the pressure. These valves are accurate, have low pressure rise vs. flow, they are smooth and quiet, and are moderately fast.

TECHNICAL DATA

Factory Pressure Settings Established at	4 gpm
Maximum Operating Pressure	5000 psi
Response Time - Typical	10 ms
Maximum Valve Leakage at 110 SUS (24 cSt)	3 in³/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

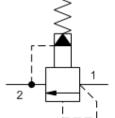
NOTES

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: RPGCLAN

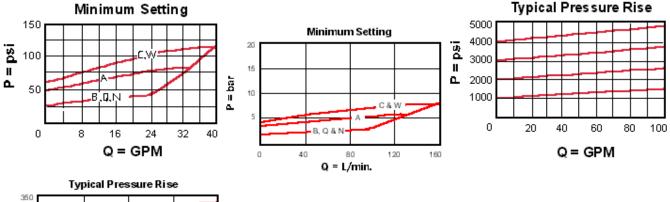
CONTROL	(L) A	DJUSTMENT RANGE (A) SEAL MATERIAL	(N)	MATERIAL/COATING	
L Standard Screw Adjustment C Tamper Resistant - Factory Set J Capped Screw Adjustment K Handknob O Handknob with Panel Mount W Hex Wrench Adjustment Y Tri-Grip Handknob		 A 100 - 3000 psi (7 - 210 bar), 1000 psi (7 bar) Standard Setting W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting B 50 - 1500 psi (3,5 - 105 bar), 1000 psi (bar) Standard Setting C 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting D 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting E 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting N 60 - 800 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting Q 60 - 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting 	i V Viton 70 ii		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel	
Created on 06/12/2015	© 2015	5 Sun Hydraulics Corporation	See www.sunhydraulics.com for de	tailed	d product information 1	1 of 2

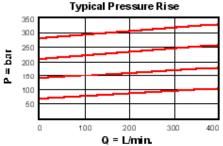


TECHNICAL FEATURES

- Cartridges with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- 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.
- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- W and Y controls (where applicable) can be specified with or without a special setting. When no special setting is specified, the valve is adjustable throughout its full range using the W or Y control. When a special setting is specified, this setting represents the maximum setting of the valve.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- 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





RELATED MODELS

- <u>RPGC3</u> Non-adjustable pilot operated, balanced piston relief valve
- <u>RPGC8</u> Pilot operated, balanced piston relief main stage with integral T-8A control cavity

RELATED ACCESSORIES

- XRDM Hot oil shuttle and relief valve assembly
- XRGN Hydrostatic transmission flushing assembly with cross-port relief
- <u>XRHB</u> Hydrostatic transmission flushing assembly with cross-port relief
- XRHC Hot oil shuttle and relief assembly
- <u>YCFC</u> Relief assembly with reverse flow check
- YRGD Cross-port relief assembly
- YRHE Fixed orifice, bypass/restrictive, priority flow control with relief assembly