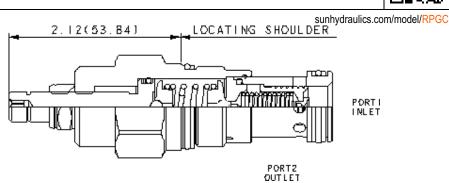


CONFIGURATION

L Control		Standard Screw Adjustment			
N	Adjustment Range	60 - 800 psi (4 - 55 bar), 400 psi (28 bar) Standard Setting			
Ν	Seal Material	Buna-N			
(nor	e) Material/Coating	Standard Material/Coating			



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

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-3A		
Series	2		
Capacity	50 gpm		
Factory Pressure Settings Established at	4 gpm		
Maximum Operating Pressure	5000 psi		
Maximum Valve Leakage at 110 SUS (24 cSt)	3 in ³ /min.@1000 psi		
Response Time - Typical	10 ms		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Valve Hex Size	1 1/8 in.		
Valve Installation Torque	45 - 50 lbf ft		
Adjustment Screw Internal Hex Size	5/32 in.		
Locknut Hex Size	9/16 in.		
Locknut Torque	80 - 90 lbf in.		
Seal kit - Cartridge	Buna: 990203007		
Seal kit - Cartridge	EPDM: 990203014		
Seal kit - Cartridge	Polyurethane: 990003002		
Seal kit - Cartridge	Viton: 990203006		
Model Weight	0.56 lb.		

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: RPGCLNN

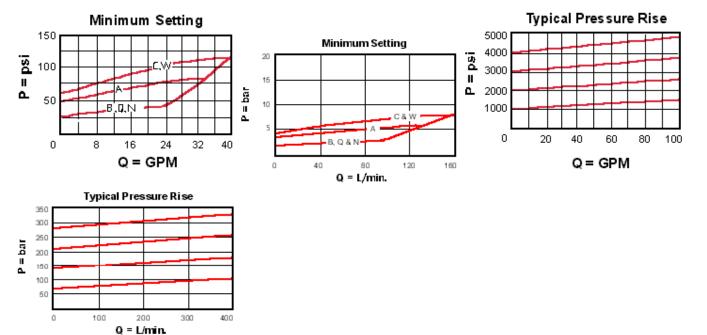
CONTROL	(L)	ADJUSTMENT RANGE	(N)	SEAL MATERIAL	(N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set J Capped Screw Adjustment K Handknob O Handknob with Panel Mount W Hex Wrench Adjustment Y Tri-Grip Handknob 		 N 60 - 800 psi (4 - 55 bar), 400 psi (28 bar) Standard Setting A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 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 p (70 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 (2 bar) Standard Setting 	si) si)	N Buna-N E EPDM V Viton		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

- E 25 400 psi (1,7 28 bar), 200 psi (14 bar) Standard Setting
- **Q** 60 400 psi (4 28 bar), 200 psi (14 bar) Standard Setting

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.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- 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