



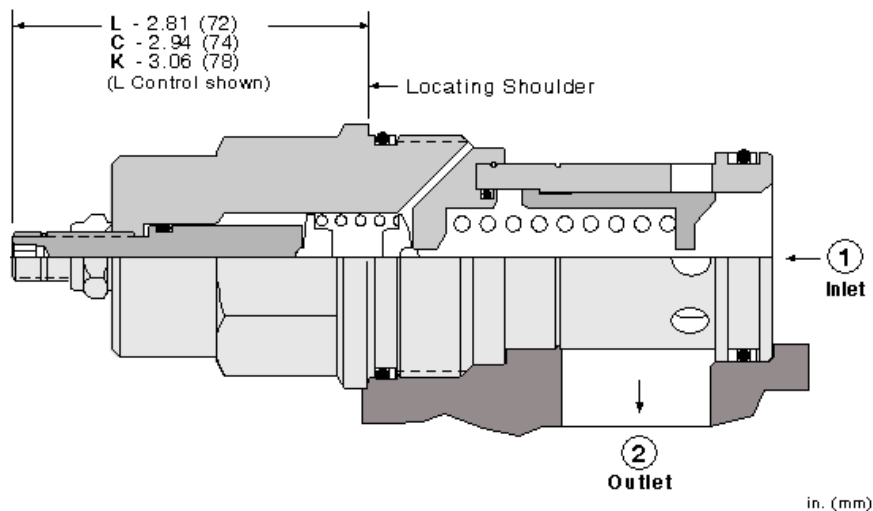
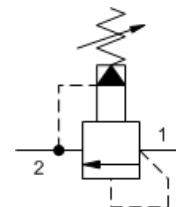
Pilot operated, balanced piston relief valve

Capacity:
200 gpm (760 L/min.)

Model:
RPKC

Product Description

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.



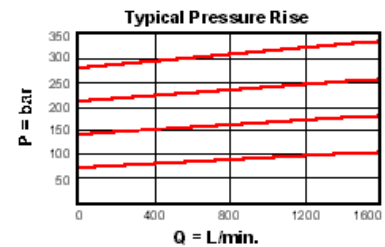
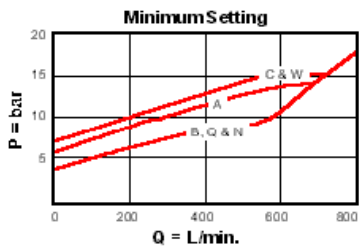
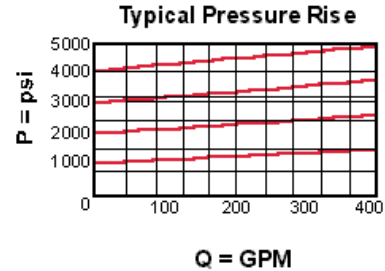
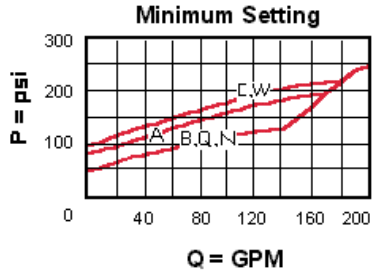
Technical Features

- Main stage orifice is protected by a 150 micron stainless steel screen.
- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- Not suitable for use in load holding applications due to spool leakage.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP (see Option Selection below). External parts are made from stainless steel with titanium or brass components, where applicable. Internal parts are made from carbon steel leaded alloy, the same as standard valves. For further details, please see the Materials of Construction page.
- 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.
- 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.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.

Technical Data

	U.S. Units	Metric Units
Cavity		T-18A
Capacity	200 gpm	760 L/min.
Factory Pressure Settings Established at	4 gpm	15 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	5 in ³ /min. @1000 psi	80 cc/min. @70 bar

Response Time - Typical	10 ms	11.2010
Series (from Cavity)	Series 4	
Adjustment - Number of Clockwise Turns to Increase Setting	5	
Valve Hex Size	1 5/8 in.	41,3 mm
Valve Installation Torque	350 - 375 lbf ft	475 - 500 Nm
Adjustment Screw Internal Hex Size	5/32 in.	4 mm
Adjustment Locknut/Cap Hex Size	9/16 in.	15 mm
Adjustment Nut Torque	80 - 90 lbf in.	9 - 10 Nm
Seal Kits - Cartridge	Buna: 990-018-007	
Seal Kits - Cartridge	Viton: 990-018-006	
Model Weight	2.59 lb.	1.17 kg.



RPKC-LAN

Control	Adjustment Range	Seal Material	Material/Coating Modifier
Preferred Options	Preferred Options	Preferred Options	Preferred Options
L Standard Screw Adjustment Standard Options	A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting	N Buna-N Standard Options	No modifier (standard material with no special coating) Special Options
C* Tamper Resistant - Factory Set	W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting	V Viton	/AP Stainless Steel, Passivated
K Handknob	Standard Options		Control: C
W* Max. Setting Limiter			Control: L
	B 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting		<i>Our stainless product line is growing! If you are interested in a stainless option for this model which is not shown please contact Sun.</i>
	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 - 55 bar), 400 psi (28 bar) Standard Setting		
	Q 60 - 400 psi (4 - 28 bar), 200 psi (14 bar) Standard Setting		
<i>Additional Options</i>			
Control	Adjustment Range	Seal Material	
M Capped Screw Adjustment with Lockwire Holes	K 75 - 1500 psi (5 - 105 bar), 1000 psi (70 bar) Standard Setting		

When the modifier is /AP, the control must be C or L

* Special Setting required, specify at time of order
Customer specified setting stamped on hex.