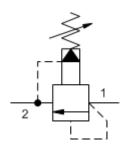
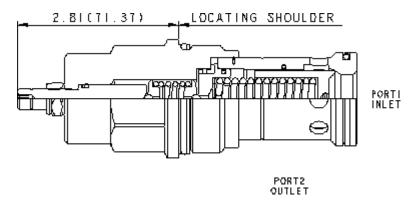
Pilot-operated, balanced poppet relief valve

CAPACITY: 200 gpm / CAVITY: T-18A



sunhydraulics.com/model/RPKS





Pilot-operated, balanced-poppet 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, smooth, quiet, fast, and have low pressure rise vs. flow.

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

Cavity	T-18A				
Series	4				
Capacity	200 gpm				
Maximum Operating Pressure	5000 psi				
Factory Pressure Settings Established at	4 gpm				
Maximum Valve Leakage at Reseat	10 drops/min.				
Response Time - Typical	7 ms				
Adjustment - No. of CW Turns from Min. to Max. setting	5				
Valve Hex Size	1 5/8 in.				
Valve Installation Torque	350 - 375 lbf ft				
Adjustment Screw Internal Hex Size	5/32 in.				
Locknut Hex Size	9/16 in.				
Locknut Torque	80 - 90 lbf in.				
Model Weight	2.58 lb.				
Seal kit - Cartridge	Buna: 990-318-007				
Seal kit - Cartridge	EPDM: 990-318-014				
Seal kit - Cartridge	Polyurethane: 990-018-002				
Seal kit - Cartridge	Viton: 990-318-006				

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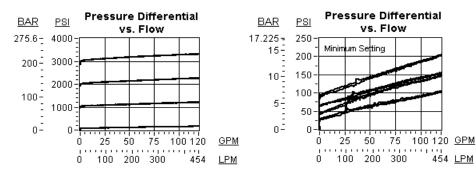
OPTION SELECTION EXAMPLE: RPKSLAN

CONTROL		(L)	ADJUSTMENT RANGE (A)) SE	AL MATERIAL	(N)	MATERIAL/COATING	
L	Standard Screw Adjustment		Α	100 - 3000 psi (7 - 210 bar), 1000	N	Buna-N			Standard Material/Coating
С	Tamper Resistant - Factory Set			psi (70 bar) Standard Setting	Е	EPDM	_	/AP	Stainless Steel, Passivated
K	Handknob		В	50 - 1500 psi (3,5 - 105 bar), 1000	٧	Viton		/LH	Mild Steel, Zinc-Nickel
w	Hex Wrench Adjustment			psi (70 bar) Standard Setting					
Y	Tri-Grip Handknob		С	150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 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					
			W	150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting					

TECHNICAL FEATURES

- Because the modulating occurs inside the cartridge, these valves are immune to most of the problems associated with cavitation, namely noise and manifold erosion.
- Will accept maximum pressure at port 2; suitable for use in cross port relief circuits.
- Valve is relatively insensitive to varying oil temperatures and oil borne contamination.
- Main stage orifice is protected by a 150-micron stainless steel screen.
- 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



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