
[sunhydraulics.com/model/RPEC](http://sunhydraulics.com/model/RPEC)

## CONFIGURATION

<b>L</b>	Control	Standard Screw Adjustment
<b>E</b>	Adjustment Range	25 - 400 psi (1.7 - 28 bar), 200 psi (14 bar) Standard Setting
<b>N</b>	Seal Material	Buna-N
<b>(none)</b>	Material/Coating	Standard Material/Coating

## TECHNICAL DATA

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

Cavity	T-10A
Series	1
Capacity	95 L/min.
Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	30 cc/min. @70 bar
Response Time - Typical	10 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Valve Hex Size	22,2 mm
Valve Installation Torque	41 - 47 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990010007
Seal kit - Cartridge	EPDM: 990010014
Seal kit - Cartridge	Polyurethane: 990010002
Seal kit - Cartridge	Viton: 990010006
Model Weight	0.14 kg.

**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

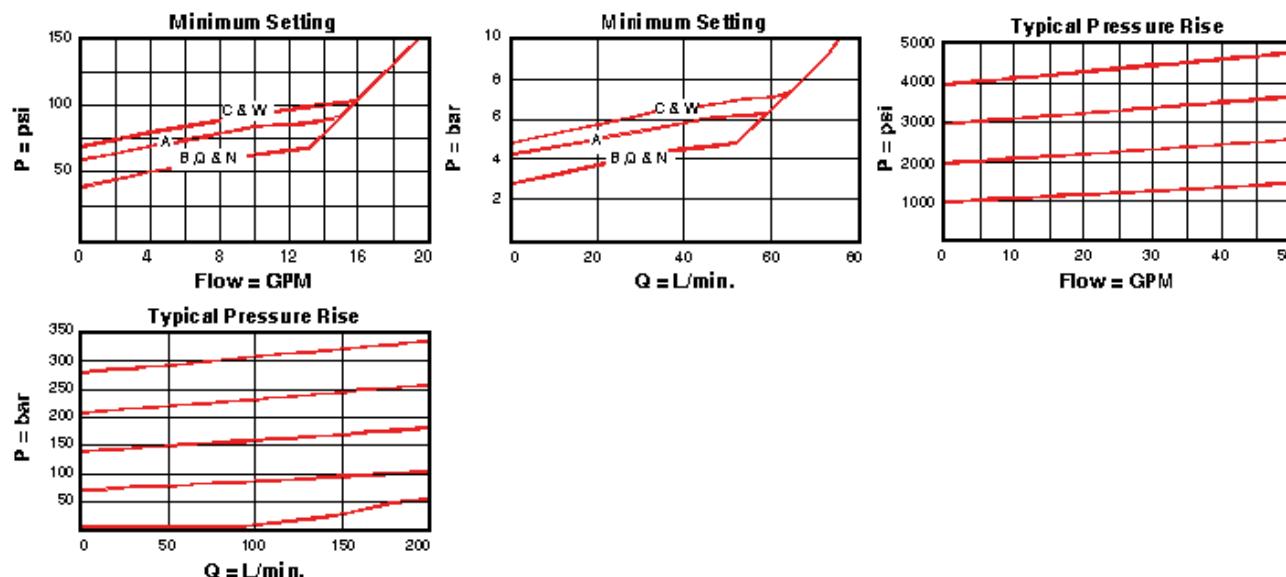
### Model Code Example: RPECLEN

CONTROL	(L)	ADJUSTMENT RANGE	(E)	SEAL MATERIAL	(N)	MATERIAL/COATING
<b>L</b> Standard Screw Adjustment		<b>E</b> 25 - 400 psi (1.7 - 28 bar), 200 psi (14 bar) Standard Setting		<b>N</b> Buna-N		Standard Material/Coating
<b>C</b> Tamper Resistant - Factory Set			<b>E</b> EPDM			/AP Stainless Steel, Passivated
<b>K</b> Handknob	<b>A</b>	100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting		<b>V</b> Viton		/LH Mild Steel, Zinc-Nickel
<b>O</b> Handknob with Panel Mount						
<b>W</b> Hex Wrench Adjustment	<b>W</b>	150 - 4500 psi (10.5 - 315 bar), 1000 psi (70 bar) Standard Setting				
<b>Y</b> Tri-Grip Handknob	<b>B</b>	50 - 1500 psi (3.5 - 105 bar), 1000 psi (70 bar) Standard Setting				
	<b>C</b>	150 - 6000 psi (10.5 - 420 bar), 1000 psi (70 bar) Standard Setting				
	<b>N</b>	60 - 800 psi (4 - 55 bar), 400 psi (28 bar) Standard Setting				
	<b>Q</b>	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

- [RPEC8](#) Pilot-operated, balanced piston relief main stage with integral T-8A control cavity