

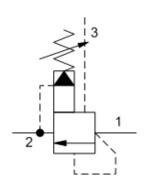


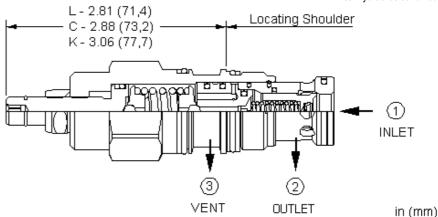
# Ventable, pilot-operated, balanced poppet relief valve

SERIES 2 / CAPACITY: 95 L/min. / CAVITY: T-2A



sunhydraulics.com/model/RVES





## **CONFIGURATION**

L	Control	Standard Screw Adjustment				
W	Adjustment Range	150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting				
N	Seal Material	Buna-N				
/AP Material/Coating		Stainless Steel, Passivated				

 Ventable, 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. They provide a vent port (port 3) that connects between the main piston and pilot stage to provide for remote control by other pilot or 2-way valves. 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-2A			
Series	2			
Capacity	95 L/min.			
Factory Pressure Settings Established at	15 L/min.			
Maximum Operating Pressure	350 bar			
Control Pilot Flow	0,25 - 0,33 L/min.			
Maximum Valve Leakage at Reseat	0,7 cc/min.			
Response Time - Typical	2 ms			
Adjustment - No. of CW Turns from Min. to Max. setting	5			
Valve Hex Size	28,6 mm			
Valve Installation Torque	61 - 68 Nm			
Adjustment Screw Internal Hex Size	4 mm			
Locknut Hex Size	15 mm			
Locknut Torque	9 - 10 Nm			
Seal kit - Cartridge	Buna: 990402007			
Seal kit - Cartridge	Polyurethane: 990002002			
Seal kit - Cartridge	Viton: 990402006			
Model Weight	0.29 kg.			

## **CONFIGURATION OPTIONS**

## Model Code Example: RVESLWN/AP

CONTROL	(L)	ADJUSTMENT RANGE	(W)	SEAL MATERIAL	(N)	MATERIAL/COATING	(/AP)
L Standard Screw Adjustment		<b>W</b> 150 - 4500 psi (10,5 - 315 ba	r), 1000	N Buna-N		IAP Stainless Steel, Passivated	
C Tamper Resistant - Factory Set		psi (70 bar) Standard Setting		E FPDM		Standard Material/Coating	

K Handknob

A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting

**B** 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting

C 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

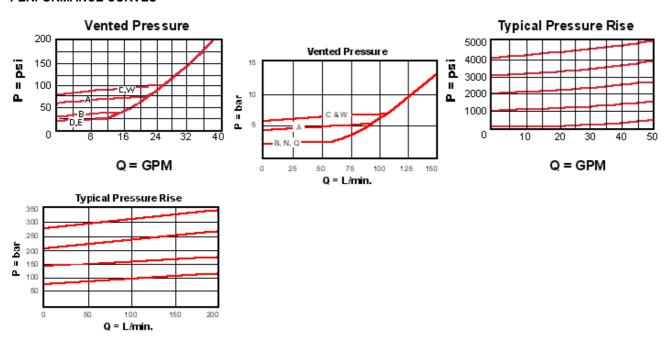
/LH Mild Steel, Zinc-Nickel **V** Viton

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## **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.
- Suitable for use in load holding applications, providing that any valving on the vent port (port 3) is zero leak.
- Will accept maximum pressure at port 2; suitable for use in cross port relief circuits.
- A remote pilot relief on port 3 (vent) will control the valve below its own setting.
- 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.
- 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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