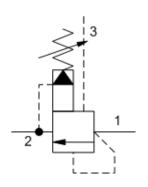




Ventable, pilot-operated, balanced piston relief valve SERIES 2 / CAPACITY: 120 L/min. / CAVITY: T-2A





# sunhydraulics.com/model/RVI LOCATING SHOULDER 2.81(71.37) PORTI PORT2 OUTLET

## **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
(non	e) Material/Coating	Standard Material/Coating

Ventable, 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. 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	120 L/min.	
Factory Pressure Settings Established at	15 L/min.	
Maximum Operating Pressure	350 bar	
Control Pilot Flow	0,16 - 0,25 L/min.	
Maximum Valve Leakage at 110 SUS (24 cSt)	50 cc/min.@70 bar	
Response Time - Typical	10 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: 990202007	
Seal kit - Cartridge	EPDM: 990202014	
Seal kit - Cartridge	Polyurethane: 990002002	
Seal kit - Cartridge	Viton: 990202006	
Model Weight	0.29 kg.	

**NOTES** 

CONTROL

K Handknob

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**

C Tamper Resistant - Factory Set

O Handknob with Panel Mount

W Hex Wrench Adjustment

Y Tri-Grip Handknob

# Model Code Example: RVEALWN

	,		
L	Standard Screw Adjustment	W	/ 150 - 4500 psi (10,5 -

## 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting

(L) ADJUSTMENT RANGE

- 100 3000 psi (7 210 bar), 1000 psi (70 bar) Standard Setting
- 50 1500 psi (3,5 105 bar), 1000 psi (70 bar) Standard Setting
- 150 6000 psi (10,5 420 bar), 1000
- (28)bar) Standard Setting
- E 25 400 psi (1,7 28 bar), 200 psi (14

## N Buna-N **E** EPDM V Viton

(W) SEAL MATERIAL

(N) MATERIAL/COATING Standard Material/Coating

/AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

	psi (10 bai) Standard Setting
D	25 - 800 psi (1,7 - 55 bar), 400 psi (

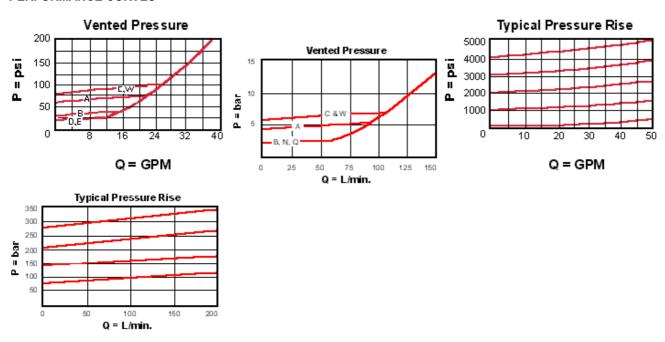
bar) Standard Setting

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### **TECHNICAL FEATURES**

- A remote pilot relief on port 3 (vent) will control the valve below its own setting.
- · 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.
- 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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