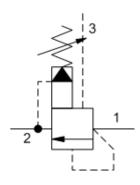
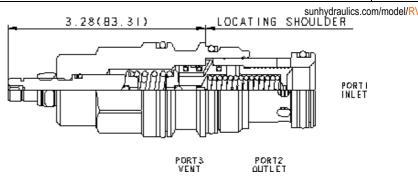
**TECHNICAL DATA** 







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.

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

Standard Material/Coating

#### CONFIGURATION

(none) Material/Coating

Cavity	T-17A	
Series	3	
Capacity	240 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 110 SUS (24 cSt)	65 cc/min.@70 bar	
Response Time - Typical	10 ms	
Adjustment - No. of CW Turns from Min. to Max. setting	5	
Valve Hex Size	31,8 mm	
Valve Installation Torque	203 - 217 Nm	
Adjustment Screw Internal Hex Size	4 mm	
Locknut Hex Size	15 mm	
Locknut Torque	9 - 10 Nm	
Seal kit - Cartridge	Buna: 990017007	
Seal kit - Cartridge	EPDM: 990017014	
Seal kit - Cartridge	Polyurethane: 990017002	
Seal kit - Cartridge	Viton: 990017006	
Model Weight	0.62 kg.	

# **CONFIGURATION OPTIONS**

#### Model Code Example: RVGALWN

CONTROL	(L)	ADJUSTMENT RANGE (W)	SEAL MATERIAL (N)	MATERIAL/COATING
L Standard Screw Adjustment		<b>W</b> 150 - 4500 psi (10,5 - 315 bar), 1000	N Buna-N	Standard Material/Coating
C Tamper Resistant - Factory Set		psi (70 bar) Standard Setting	E EPDM	/AP Stainless Steel, Passivated
K Handknob		A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting	V Viton	/LH Mild Steel, Zinc-Nickel
		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		
		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		

### **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**

