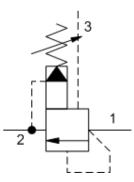
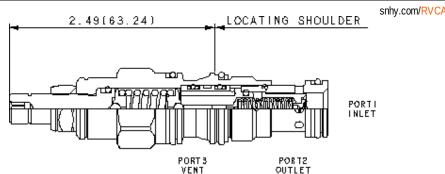


MODEL RVCA







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.

CONFIGURATION

L	Control	Standard Screw Adjustment		
С	Adjustment Range	150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting		
Ν	Seal Material	Buna-N		
(none) Material/Coating		Standard Material/Coating		

TECHNICAL DATA

Factory Pressure Settings Established at	4 gpm	
Maximum Operating Pressure	5000 psi	
Control Pilot Flow	7 - 10 in³/min.	
Response Time - Typical	10 ms	
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in³/min.@1000 psi	
Adjustment - Number of Clockwise Turns to Increase Setting	5	
Locknut Hex Size	9/16 in.	
Locknut Torque	80 - 90 lbf in.	
Seal kit - Cartridge	Buna: 990-011-007	
Seal kit - Cartridge	Polyurethane: 990-011-002	
Seal kit - Cartridge	Viton: 990-011-006	

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

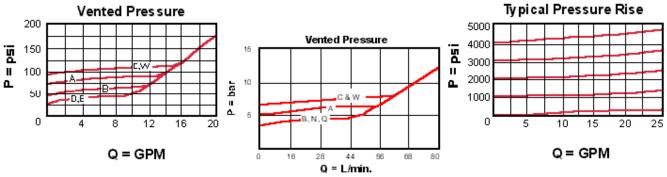
Model Code Example: RVCALCN

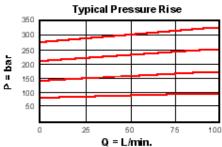
CONTROL	(L)	ADJUSTMENT RANGE (C)	SEAL MATERI	AL (N)	MATERIAL/COATING	
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob O Handknob with Panel Mount 		 C 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting B 50 - 1500 psi (3,5 - 105 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 	N Buna-N E EPDM V Viton		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel	
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 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





RELATED ACCESSORIES

- XRCL Solenoid operated cross port relief assembly
- XRCM Solenoid operated ventable relief assembly
- <u>XRCX</u> Solenoid operated ventable relief assembly
- <u>XROK</u> Solenoid operated ventable relief assembly