





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-11A			
Series	1			
Capacity	60 L/min.			
Factory Pressure Settings Established at	15 L/min.			
Maximum Operating Pressure	350 bar			
Control Pilot Flow	0,11 - 0,16 L/min.			
Maximum Valve Leakage at 110 SUS (24 cSt)	cSt) 30 cc/min.@70 bar			
esponse Time - Typical 10 ms				
Adjustment - No. of CW Turns from Min. to Max. setting	5			
Valve Hex Size	ex Size 22,2 mm			
Valve Installation Torque	41 - 47 Nm			
djustment Screw Internal Hex Size 4 mm				
Locknut Hex Size	15 mm			
Locknut Torque	9 - 10 Nm			
Seal kit - Cartridge	Buna: 990011007			
Seal kit - Cartridge	EPDM: 990011014			
Seal kit - Cartridge	Polyurethane: 990011002			
Seal kit - Cartridge	Viton: 990011006			
Model Weight	0.16 kg.			

For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel. NOTES

CONFIGURATION OPTIONS

Model Code Example: RVCALDN

CONTROL	(L)	ADJUSTMENT RANGE (D)	SEAL MATERIAL	(N)	MATERIAL/COATING
 L Standard Screw Adjustment C Tamper Resistant - Factory Set K Handknob O Handknob with Panel Mount 		 D 25 - 800 psi (1,7 - 55 bar), 400 psi (28 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 	N Buna-N E EPDM V Viton		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel
		 C 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting E 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting 			

CONFIGURATION

L	Control	Standard Screw Adjustment		
D	Adjustment Range	25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting		
N	Seal Material	Buna-N		
(none) Material/Coating		Standard Material/Coating		

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



