



Direct-acting, pilot relief cartridges are used to remotely control the pressure setting of other pilot-operated valves. Because capacity is limited to pilot flow, these valves should be used with other higher flow valves.

**TECHNICAL DATA** NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-3A
Series	2
Capacity	.5 gpm
Maximum Operating Pressure	5000 psi
Maximum Valve Leakage at 110 SUS (24 cSt)	5 drops/min.
Response Time - Typical	2 ms
Adjustment - No. of CW Turns from Min. to Max. setting	5
Valve Hex Size	1 1/8 in.
Valve Installation Torque	45 - 50 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Model Weight	0.57 lb.
Seal kit - Cartridge	Buna: 990-203-007
Seal kit - Cartridge	EPDM: 990-203-014
Seal kit - Cartridge	Polyurethane: 990-003-002
Seal kit - Cartridge	Viton: 990-203-006

**NOTES:** • For Series 2 cartridges configured with an O control (panel mount handknob), a 1.00 in. (25,4 mm) diameter hole is required in the panel.

## OPTION SELECTION EXAMPLE: RBAALAN

CONTROL	(L)	ADJUSTMENT RANGE	(A)	SEAL MATERIAL	(N)	MATERIAL/COATING
<b>L</b>	Standard Screw Adjustment	<b>A</b>	25 - 3000 psi (1,7 - 210 bar), 1000 psi (70 bar) Standard Setting	<b>N</b>	Buna-N	Standard Material/Coating
<b>C</b>	Tamper Resistant - Factory Set	<b>B</b>	25 - 1500 psi (1,7 - 105 bar), 1000 psi (70 bar) Standard Setting	<b>E</b>	EPDM	<b>/AP</b> Stainless Steel, Passivated
<b>K</b>	Handknob	<b>D</b>	25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting	<b>V</b>	Viton	<b>/LH</b> Mild Steel, Zinc-Nickel
<b>Y</b>	Tri-Grip Handknob	<b>E</b>	25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting			

### TECHNICAL FEATURES

- Main stage orifice is protected by a 150-micron stainless steel screen.
- Suitable for use in load holding applications.
- 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.
- W and Y controls (where applicable) can be specified with or without a special setting. When no special setting is specified, the valve is adjustable throughout its full range using the W or Y control. When a special setting is specified, this setting represents the maximum setting of the valve.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- 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

