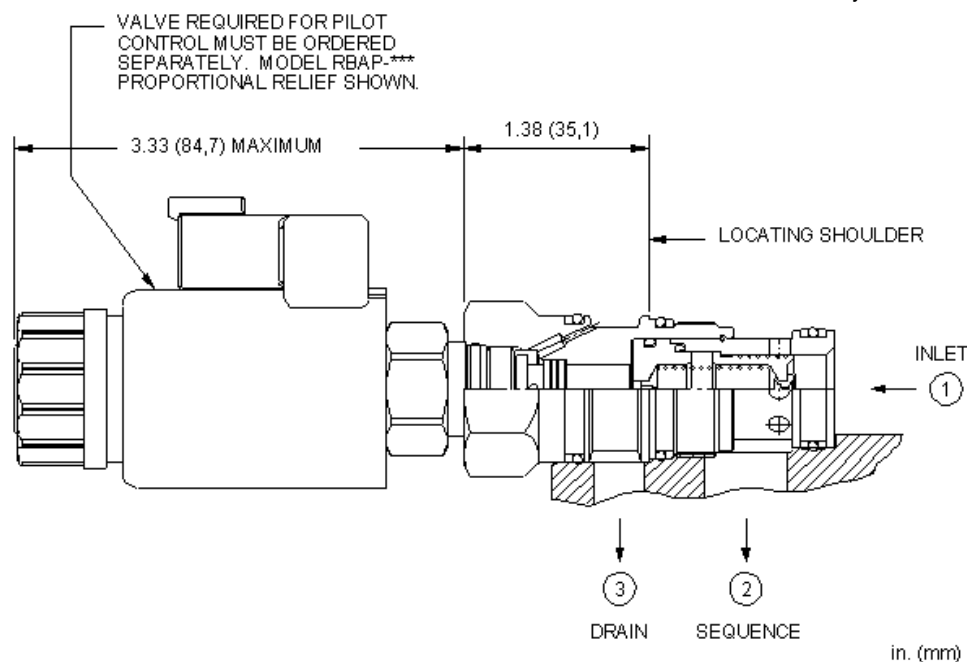
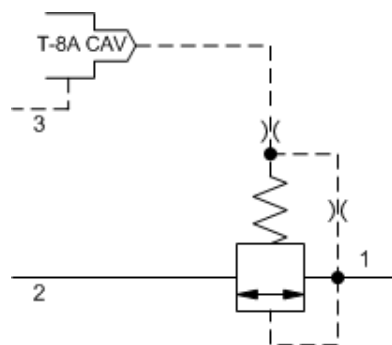




This valve is a normally closed modulating element that incorporates an integral pilot control cavity. It is externally drained, and is a balanced piston design. The pilot control cavity will accept any T-8A pressure control cartridge. When the pressure at the inlet (port 1) reaches the pilot control cartridge's setting, the modulating element starts to open to port 2, throttling flow to regulate the pressure. The pilot cartridge's setting determines the difference in pressure between the inlet (port 1) and the drain (port 3). These valves are insensitive to back pressure at port 2, up to the valve setting. They may be used to regulate pressure in place of 2-port relief valves if there is pressure in the return line.

## TECHNICAL DATA

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

|                                        |                         |
|----------------------------------------|-------------------------|
| Cavity                                 | T-2A                    |
| Series                                 | 2                       |
| Capacity                               | 120 L/min.              |
| Maximum Operating Pressure             | 350 bar                 |
| Control Pilot Flow                     | 0,16 - 0,25 L/min.      |
| Response Time - Typical                | 10 ms                   |
| Pilot Control Cavity                   | T-8A                    |
| Main stage leakage at 110 SUS (24 cSt) | 50 cc/min.@70 bar       |
| Valve Hex Size                         | 28,6 mm                 |
| Valve Installation Torque              | 61 - 68 Nm              |
| Seal kit - Cartridge                   | Buna: 990202007         |
| Seal kit - Cartridge                   | Polyurethane: 990002002 |
| Seal kit - Cartridge                   | Viton: 990202006        |
| Model Weight                           | 0.20 kg.                |

## NOTES

Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at point of use.

## CONFIGURATION OPTIONS

Model Code Example: RSFC8WN

### MINIMUM CONTROL

#### PRESSURE

(W)

W 100 psi (7 bar)

D 25 psi (1,7 bar)

### SEAL MATERIAL

(N)

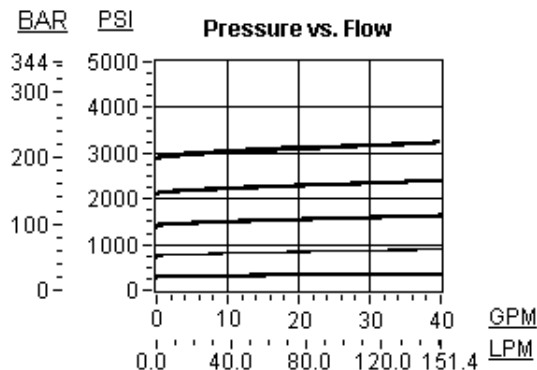
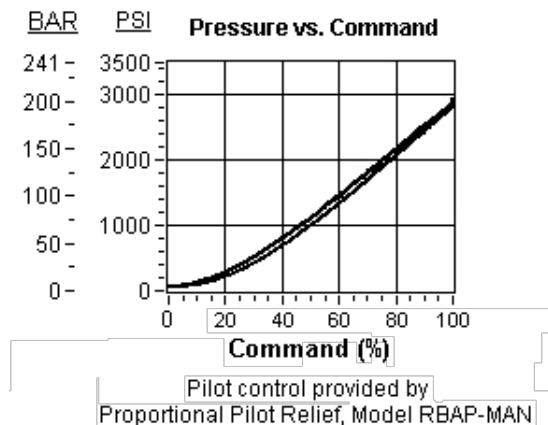
N Buna-N

V Viton

## TECHNICAL FEATURES

- All 3 port sequence cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size).
- Pilot flow continues to increase as the pressure at port 1 (inlet), relative to the pressure at port 3 (drain), rises above the valve setting.
- The main stage orifice is protected by a 150 micron stainless steel screen.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- NOTE: With the -8 control option, the main stage valve should first be installed to the correct torque value. The T-8A pilot control valve should then be installed into the main stage valve to its required torque value.
- The -8 control option allows the pilot control valve to be incorporated directly into the end of the relief cartridge via the T-8A cavity. These pilot control cartridges are sold separately and include solenoid operation, air pilot operation, and hydraulic pilot operation. See Pilot Control Cartridges.
- 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.
- Not suitable for use in load holding applications due to spool leakage.
- 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 MODELS

- [RSFC](#) Pilot operated, balanced piston sequence valve