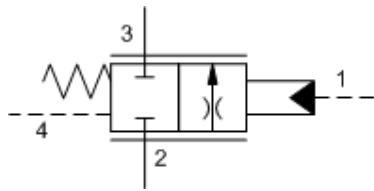
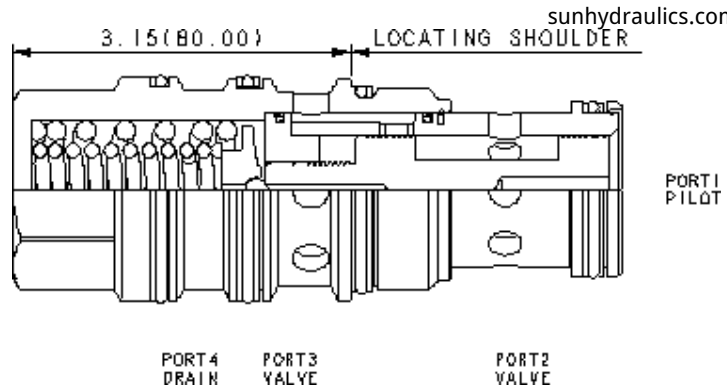




## CONFIGURATION

|               |                     |                 |
|---------------|---------------------|-----------------|
| <b>X</b>      | Control             | Not Adjustable  |
| <b>C</b>      | Spool Configuration | Normally Closed |
| <b>N</b>      | Seal Material       | Buna-N          |
| <b>(none)</b> | Material/Coating    |                 |

This valve is a 2-way, 2-position proportional throttle. Ports 2 and 3 are normally closed. Pilot pressure at port 1 creates a metering orifice between port 2 and 3 that is proportional to the pressure at 1. The force balance of the flow forces, spring and pilot pressure results in a degree of partial self-compensation as the load pressure changes.

Pressure at port 4 directly opposes pressure at port 1.

## TECHNICAL DATA

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

|                                                        |                                  |
|--------------------------------------------------------|----------------------------------|
| Cavity                                                 | T-24A                            |
| Series                                                 | 4                                |
| Capacity                                               | 40 gpm                           |
| Maximum Operating Pressure                             | 5000 psi                         |
| Maximum Valve Leakage at 110 SUS (24 cSt)              | 6 in <sup>3</sup> /min.@1000 psi |
| Pilot Volume Displacement                              | .20 in <sup>3</sup>              |
| Minimum Pilot Pressure to Operate                      | 100 psi                          |
| Hysteresis                                             | ± 2 %                            |
| Adjustment - No. of CW Turns from Min. to Max. setting | 5                                |
| Valve Hex Size                                         | 1 5/8 in.                        |
| Valve Installation Torque                              | 350 - 375 lbf ft                 |
| Adjustment Screw Internal Hex Size                     | 5/32 in.                         |
| Locknut Hex Size                                       | 9/16 in.                         |
| Locknut Torque                                         | 80 - 90 lbf in.                  |
| Seal kit - Cartridge                                   | Buna: 990024007                  |
| Seal kit - Cartridge                                   | Polyurethane: 990024002          |
| Seal kit - Cartridge                                   | Viton: 990024006                 |
| Model Weight                                           | 2.87 lb.                         |

## CONFIGURATION OPTIONS

Model Code Example: FKHAArray

| CONTROL                    | (X) SPOOL CONFIGURATION  | (C) SEAL MATERIAL | (N) MATERIAL/COATING            |
|----------------------------|--------------------------|-------------------|---------------------------------|
| <b>X</b> Not Adjustable    | <b>C</b> Normally Closed | <b>N</b> Buna-N   | Standard Material/Coating       |
| <b>L</b> Tuning Adjustment |                          | <b>V</b> Viton    | /AP Stainless Steel, Passivated |

## TECHNICAL FEATURES

- These valves may be pressure compensated by an external, modulating, logic element. Use LR\_C-XHN for a bypass circuit or LP\_C-XHN for a restrictive circuit.
- The valve provides a degree of self-compensation and may be used as a flow control. To increase the accuracy of flow control, an external, modulating, logic element can be used to maintain a constant flow over a wider range of flows and pressures. See performance curves for additional information.
- Ports 1 and 4 should be limited to 500 psi (35 bar).
- Pressure at port 4 directly opposes pressure at port 1.
- An optional tuning adjustment (L control) is offered to vary the pilot pressure required to control flow. The tuning adjustment provides a means to manually increase or decrease flow at a given pilot pressure. The adjustment range is 20 - 200 psi (1,4 - 14 bar), 100 psi (7 bar) Standard Setting.
- Accurate pressure compensated control requires that a constant pressure differential be maintained across the valve.
- 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

