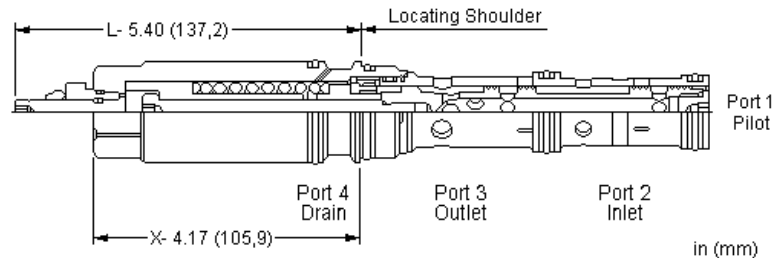
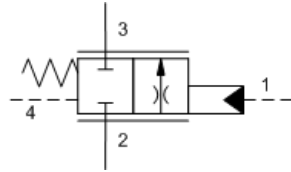


MODEL  
FTEA

2-way, pilot shifted, dual path, proportional throttle  
CAPACITY: 95 L/min. | CAVITY: T-53AD



#### CONFIGURATION

|          |                     |                 |
|----------|---------------------|-----------------|
| <b>X</b> | Control             | Not Adjustable  |
| <b>C</b> | Spool Configuration | Normally Closed |
| <b>N</b> | Seal Material       | Buna-N          |

#### NOTES

When installed in Sun's standard T-53A line mount manifold, plug unused ports and expect higher pressure drops.

This valve is a 2-way, 2 position, proportional throttle. Pilot pressure at port 1 opposes the spring and creates a variable 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.

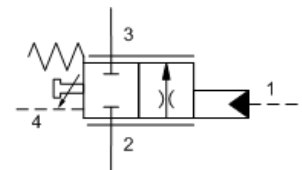
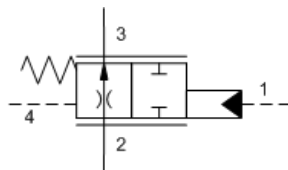
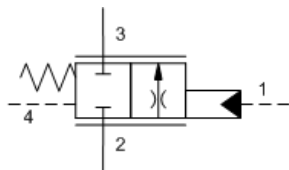
Pressure at port 4 directly opposes pressure at port 1.

The valve uses a dual path design. Ports 2 and 3 incorporate a double port area.

#### TECHNICAL DATA

|                                                                            |                    |
|----------------------------------------------------------------------------|--------------------|
| Cavity                                                                     | T-53AD             |
| Series                                                                     | 3                  |
| Capacity                                                                   | 95 L/min.          |
| Minimum Pilot Pressure Required to Shift Valve                             | 5,5 bar            |
| Pilot Pressure Required for Full Shift at Rated Flow                       | 24 bar             |
| Maximum Operating Pressure                                                 | 350 bar            |
| Maximum Valve Leakage at 110 SUS (24 cSt)                                  | 160 cc/min.@70 bar |
| Pilot Volume Displacement                                                  | 1,6 cc             |
| Adjustment - Number of Counterclockwise Turns - Fully Closed to Fully Open | 5                  |
| Hysteresis                                                                 | ± 2 %              |
| Valve Hex Size                                                             | 31,8 mm            |
| Valve Installation Torque                                                  | 203 - 217 Nm       |
| Adjustment Screw Internal Hex Size                                         | 4 mm               |
| Locknut Hex Size                                                           | 15 mm              |
| Locknut Torque                                                             | 9 - 10 Nm          |
| Seal kit - Cartridge                                                       | Buna: 990-053-007  |
| Seal kit - Cartridge                                                       | Viton: 990-053-006 |
| Model Weight                                                               | 1.31 kg.           |

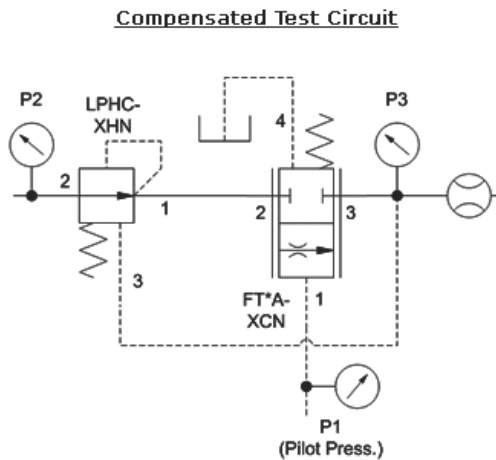
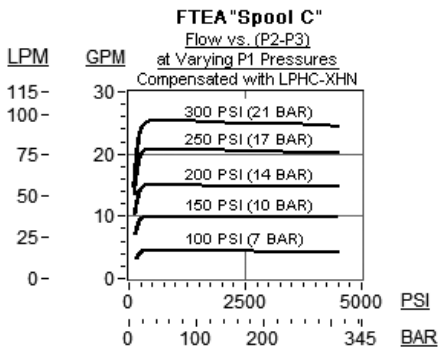
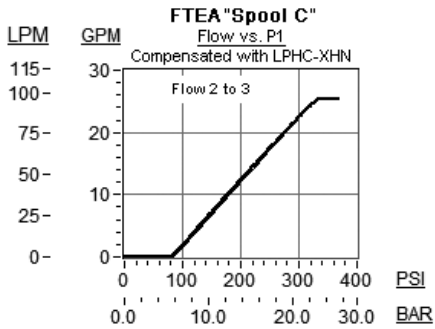
#### SYMBOLS

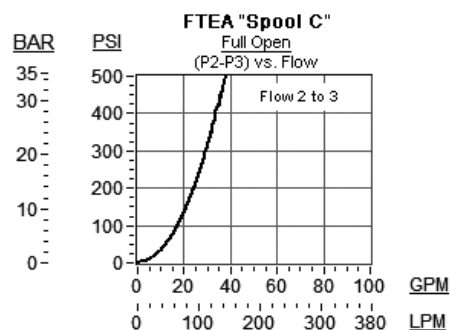
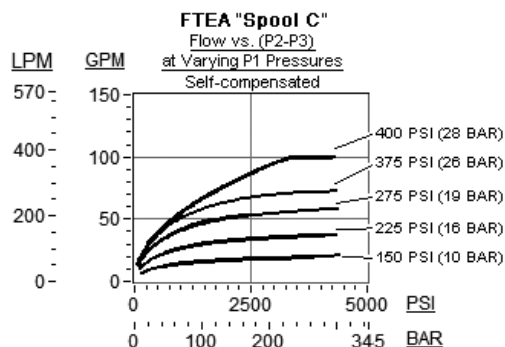
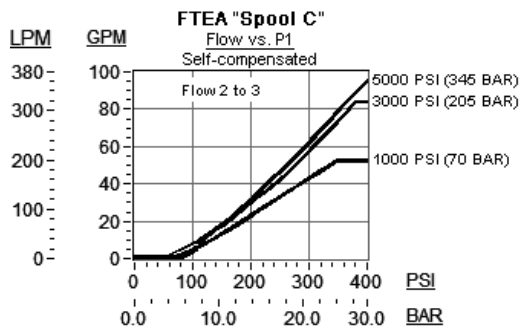


## TECHNICAL FEATURES

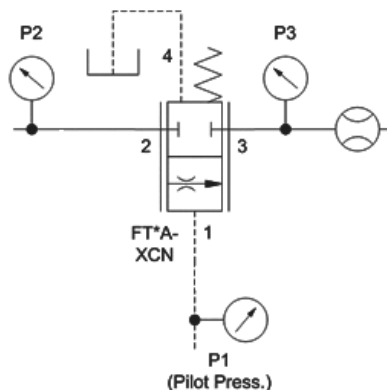
- These valves may be pressure compensated by an external, modulating, logic element. Use LR\_C-XHN for a bypass circuit or LP\_C-XHN for a restrictive circuit.
- The valve provides a degree of self-compensation and may be used as a flow control. To increase the accuracy of flow control, an external, 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.
- The optional L control is a stroke adjustment that limits maximum flow.
- Ports 1 and 4 should be limited to 500 psi (35 bar).
- Pressure at port 4 directly opposes pressure at port 1.
- 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





**Self-Compensated Test Circuit**



## CONFIGURATION OPTIONS

### CONTROL

|                  |   |                   |
|------------------|---|-------------------|
| Standard Options | L | Stroke Adjustment |
|                  | X | Not Adjustable    |

### SPOOL CONFIGURATION

|                  |   |                 |
|------------------|---|-----------------|
| Standard Options | C | Normally Closed |
|                  | H | Normally Open   |

### SEAL MATERIAL

|                  |   |        |
|------------------|---|--------|
| Standard Options | N | Buna-N |
|                  | V | Viton  |

## RELATED MODELS

### FTEAZ

2-way, pilot shifted, dual path, proportional throttle with position switch