



The single ball shuttle connects the higher of two work ports to the signal or common port. The signal is sensed at port 3.

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

|   |                           |
|---|---------------------------|
| Cavity                                    | T-163A                    |
| Series                                    | 0                         |
| Capacity                                  | 1.25 gpm                  |
| Maximum Operating Pressure                | 5000 psi                  |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 5 drops/min.              |
| Valve Hex Size                            | 3/4 in.                   |
| Valve Installation Torque                 | 20 - 25 lbf ft            |
| Model Weight                              | 0.19 lb.                  |
| Seal kit - Cartridge                      | Buna: 990-163-007         |
| Seal kit - Cartridge                      | Polyurethane: 990-163-002 |
| Seal kit - Cartridge                      | Viton: 990-163-006        |

## OPTION SELECTION EXAMPLE: CSAXXXN

| CONTROL                         | (X) | ADJUSTMENT RANGE | (X) | SEAL MATERIAL   | (N) | MATERIAL/COATING                       |
|---------------------------------|-----|------------------|-----|-----------------|-----|--|
| <b>X</b> Not Adjustable         |     | <b>X</b> -       |     | <b>N</b> Buna-N |     | Standard Material/Coating              |
| <b>B</b> External 1/4 BSPP Port |     |                  |     | <b>V</b> Viton  |     | <b>/AP</b> Stainless Steel, Passivated |
| <b>E</b> External 4-SAE Port    |     |                  |     |                 |     | <b>/LH</b> Mild Steel, Zinc-Nickel     |

### TECHNICAL FEATURES

- Shuttle cartridges feature hardened steel balls and seats for excellent wear characteristics and contamination tolerance.
- The single ball allows for the decay of the pressure signal when both load ports drop to a lower pressure.
- 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

