



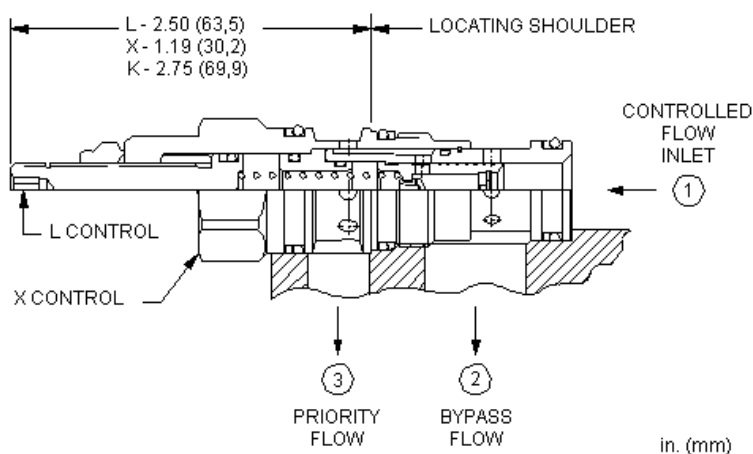
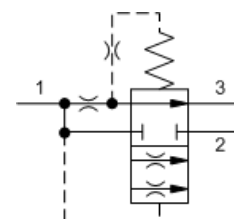
## Fixed orifice, bypass/restrictive, priority, flow control valve

Capacity:  
6 gpm (23 L/min.)

Model:  
FRCA

### Product Description

Bypass/restrictive, fixed-orifice, priority flow controls take an input flow at port 1 and use it to satisfy the priority flow at port 3. If the input flow exceeds the priority flow requirement, the excess is bypassed out port 2. The bypass flow may be used in a secondary circuit.



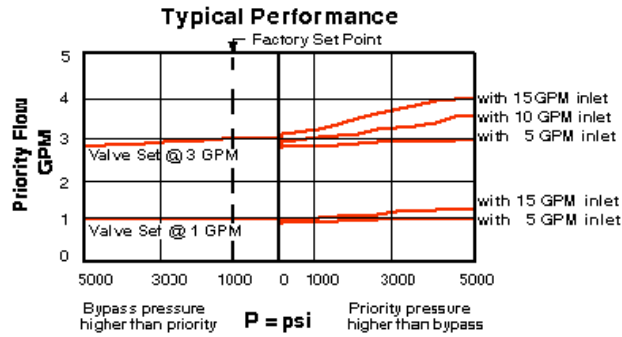
### Technical Features

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- Both priority and bypass flow are usable up to the system operating pressure.
- Priority remains relatively constant regardless of variation in input flow.
- Bypass flow is not available until priority flow requirements are satisfied.
- Pressure at the bypass port (port 2) may exceed pressure at the priority port (port 3).
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- A tuneable adjustment control option provides up to +/- 25% variation from the nominal factory pre-set flow. Adjustment is done with +/- 3 turns of the adjust screw. Screw in (CW) to increase flow.
- 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.

### Technical Data

|                                    | U.S. Units     | Metric Units |
|------------------------------------|----------------|--------------|
| Cavity                             | T-11A          |              |
| Capacity                           | 6 gpm          | 23 L/min.    |
| Maximum Input Flow                 | 15 gpm         | 60 L/min.    |
| Maximum Operating Pressure         | 5000 psi       | 350 bar      |
| Series (from Cavity)               | Series 1       |              |
| Valve Hex Size                     | 7/8 in.        | 22,2 mm      |
| Valve Installation Torque          | 30 - 35 lbf ft | 40 - 50 Nm   |
| Adjustment Screw Internal Hex Size | 5/32 in.       | 4 mm         |
| Adjustment Locknut/Cap Hex Size    | 9/16 in.       | 15 mm        |

|                       |                    |           |
|-----------------------|--------------------|-----------|
| Adjustment Nut Torque | 80 - 90 lbf in.    | 9 - 10 Nm |
| Seal Kits - Cartridge | Buna: 990-011-007  |           |
| Seal Kits - Cartridge | Viton: 990-011-006 |           |
| Model Weight          | 0.26 lb.           | 0.12 kg.  |



FRCA-XAN

| Control                                                                                                                                  | Setting Range                                       | Seal Material     | Material/Coating Modifier                               |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|---------------------------------------------------------|
| Preferred Options                                                                                                                        | Preferred Options                                   | Preferred Options | Preferred Options                                       |
| L    Tuning Adjustment                                                                                                                   | A* Replaceable Orifice .1 - 6 gpm (0,4 - 23 L/min.) | N    Buna-N       | No modifier (standard material with no special coating) |
| Standard Options                                                                                                                         |                                                     | Standard Options  | Special Options                                         |
| K    Handknob                                                                                                                            |                                                     | V    Viton        | / AP    Stainless Steel, Passivated                     |
| X    Not Adjustable                                                                                                                      |                                                     |                   | Control:L                                               |
|                                                                                                                                          |                                                     |                   | Control:C                                               |
| Our stainless product line is growing! If you are interested in a stainless option for this model which is not shown please contact Sun. |                                                     |                   |                                                         |

| Additional Options                                   | Control | Setting Range                                     | Seal Material |
|------------------------------------------------------|---------|---------------------------------------------------|---------------|
| C    Tamper Resistant - Factory Set                  |         | B* Permanent Orifice .1 - 6 gpm (0,4 - 23 L/min.) |               |
| When the modifier is /AP, the control must be C or L |         |                                                   |               |
| * Special Setting required, specify at time of order |         |                                                   |               |