



## Normally open, modulating element with pilot source from port 1

Capacity:  
**120 gpm (480 L/min.)**

Functional Group:

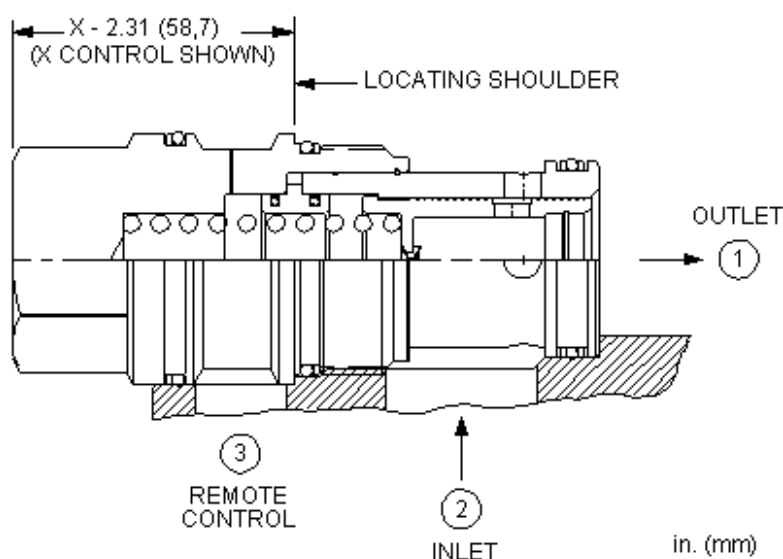
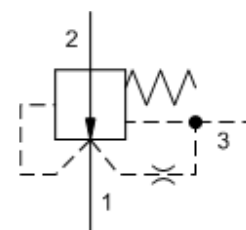
**Products : Cartridges : Logic Element : Modulating : Normally Open, Pilot Source from port 1**

Model:

**LPJA**

### Product Description

These normally open modulating elements with an internal orifice between port 1 and port 3 can be used as a main-stage reducing valve. The valve can be controlled remotely using a pilot relief or pilot solenoid valve.



### Technical Features

- An optional tuning adjustment (L control) is offered to vary the pressure drop across the compensator to increase/decrease flow. This option is only available with the D spring option (50 psi [3,5 bar]).
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP (see Option Selection below). The bodies of these valves are made from high strength lean duplex stainless steel. Adjustment screws are made from titanium or silicon brass, depending on the model. Lock nuts, retaining wires, and assorted controls are made from 316 stainless steel. Internal parts are made from carbon steel leaded alloy, the same as standard valves.
- All ports will accept 5000 psi (350 bar).
- 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-19A              |
| Capacity                   | 120 gpm                       | 480 L/min.         |
| Control Orifice Diameter   | .021 in.                      | 0,53 mm            |
| Control Pilot Flow         | 15 - 30 in <sup>3</sup> /min. | 0,25 - 0,50 L/min. |
| Maximum Operating Pressure | 5000 psi                      | 350 bar            |
| Series (from Cavity)       |                               | Series 4           |
| Valve Hex Size             | 1 5/8 in.                     | 41,3 mm            |
| Valve Installation Torque  | 350 - 375 lbf ft              | 475 - 500 Nm       |
| Seal Kits - Cartridge      |                               | Buna: 990-019-007  |
| Seal Kits - Cartridge      |                               | Viton: 990-019-006 |
| Model Weight               | 2.57 lb.                      | 1.17 kg.           |

**LPJA-XHN**

| Control                    | Bias Pressure               | Seal Material    | Material/Coating Modifier                                                                                                                                |
|----------------------------|-----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Options           | Standard Options            | Standard Options | Preferred Options                                                                                                                                        |
| <b>L</b> Tuning Adjustment | <b>D</b> 50 psi (3,5 bar)   | <b>N</b> Buna-N  | <b>No modifier</b> (standard material with no special coating)                                                                                           |
| <b>X</b> Not Adjustable    | <b>F</b> 100 psi (7 bar)    | <b>V</b> Viton   | <b>Special Options</b>                                                                                                                                   |
|                            | <b>G</b> 150 psi (10,5 bar) |                  |                                                                                                                                                          |
|                            | <b>H</b> 200 psi (14 bar)   |                  | <b>/AP</b> Stainless Steel, Passivated                                                                                                                   |
|                            |                             |                  | Control: X                                                                                                                                               |
|                            |                             |                  | <i><b>Our corrosion resistant product line is growing! If you are interested in a corrosion resistant option for this model, please contact Sun.</b></i> |

When the control is L, the range must be D

When the modifier is /AP, the control must be X