

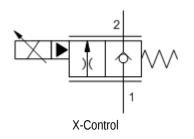


Pilot-operated, normally closed, electro-proportional throttle with reverse flow check - (740 Series)

CAPACITY: 114 gpm / CAVITY: T-18A

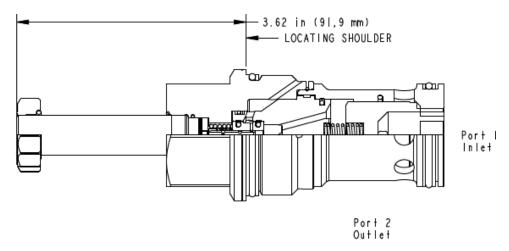


sunhydraulics.com/model/FPJP



CONFIGURATION

| X | Control | - |
|---|------------------|-----------------------------------------------------------------|
| G | Flow Rate | Nominal 120 gpm @ 200 psi (14 bar) differential (480 L/min.) |
| N | Seal Material | Buna-N |
| | Coil | |



This valve is a pilot-operated, normally closed, electroproportional throttle with reverse free-flow check. Energizing

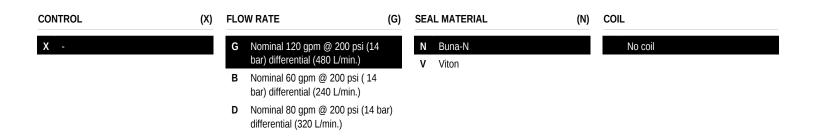
the coil generates an opening force on the pilot stage which vents the main stage poppet to open proportionally. Metered flow is from port 1 to port 2 with reverse free flow from port 2 to port 1.

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

| Cavity | T-18A |
|----------------------------------------------|------------------------|
| Series | 4 |
| Capacity | 114 gpm |
| Maximum Operating Pressure | 5000 psi |
| Recommended dither frequency | 140 Hz |
| Deadband, nominal (as a percentage of input) | 25% |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 20 drops/min.@5000 psi |
| Valve Hex Size | 1 5/8 in. |
| Valve Installation Torque | 350 - 375 lbf ft |
| Model Weight | 2.68 lb. |
| Seal and nut kit - Coil | Viton: 990-740-006 |
| Seal kit - Cartridge | Buna: 990-018-007 |
| Seal kit - Cartridge | Viton: 990-018-006 |

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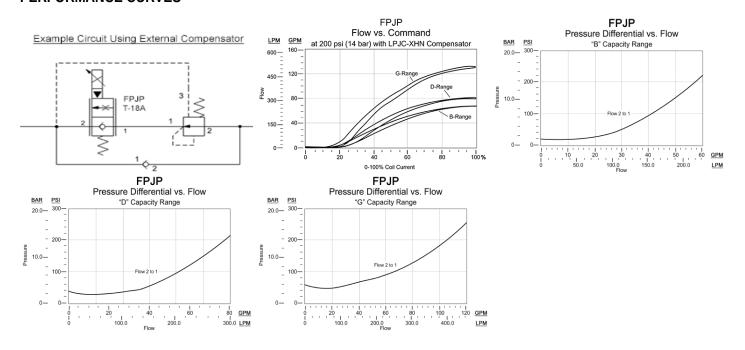
OPTION SELECTION EXAMPLE: FPJPXGN



TECHNICAL FEATURES

- Capable of operating with pressures up to 5000 psi (350 bar).
- Coils are interchangeable with Sun's other full flow, solenoid-operated valves and can be mounted on the tube in either direction.
- For optimum performance, an amplifier with current sensing and adjustable dither should be used. Dither should be adjustable between 100 250 Hz.
- Capacities rated at 200 psi (14 bar) differential and maximum rated coil current.
- Depending on circuit requirements, a reverse free flow check bypassing the compensator may be needed when using the FPHK with an external compensator.
- 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.
- Coils are interchangeable with Sun's other full flow, solenoid-operated valves.
- Depending on circuit requirements, a reverse free flow check bypassing the compensator may be needed when using the FPJP with an external compensator.

PERFORMANCE CURVES



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