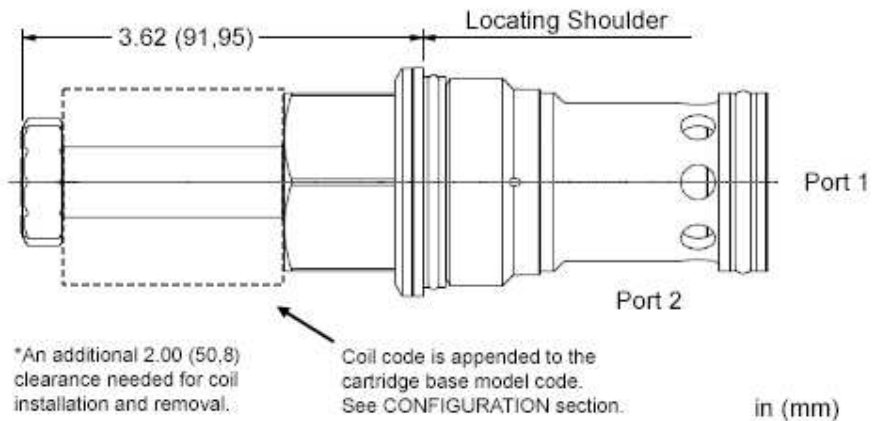
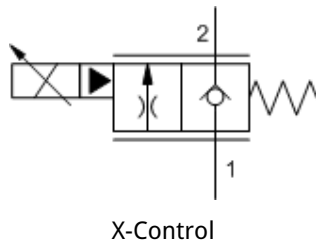




This valve is a pilot-operated, normally closed, electro-proportional throttle with reverse free-flow check. Energizing the coil generates an opening force on the pilot stage which vents the main stage poppet to open proportionally. Metered flow is from port 1 to port 2 with reverse free flow from port 2 to port 1.

TECHNICAL DATA

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

Cavity	T-18A
Series	4
Capacity	431 L/min.
Maximum Operating Pressure	350 bar
Recommended dither frequency	140 Hz
Maximum Valve Leakage at 110 SUS (24 cSt)	20 drops/min.@5000 psi
Deadband, nominal (as a percentage of input)	25%
Valve Hex Size	41,3 mm
Valve Installation Torque	474 - 508 Nm
Seal kit - Cartridge	Buna: 990018007
Seal kit - Cartridge	Viton: 990018006
Seal and nut kit - Coil	Viton: 990740006
Model Weight	1.22 kg.

CONFIGURATION OPTIONS

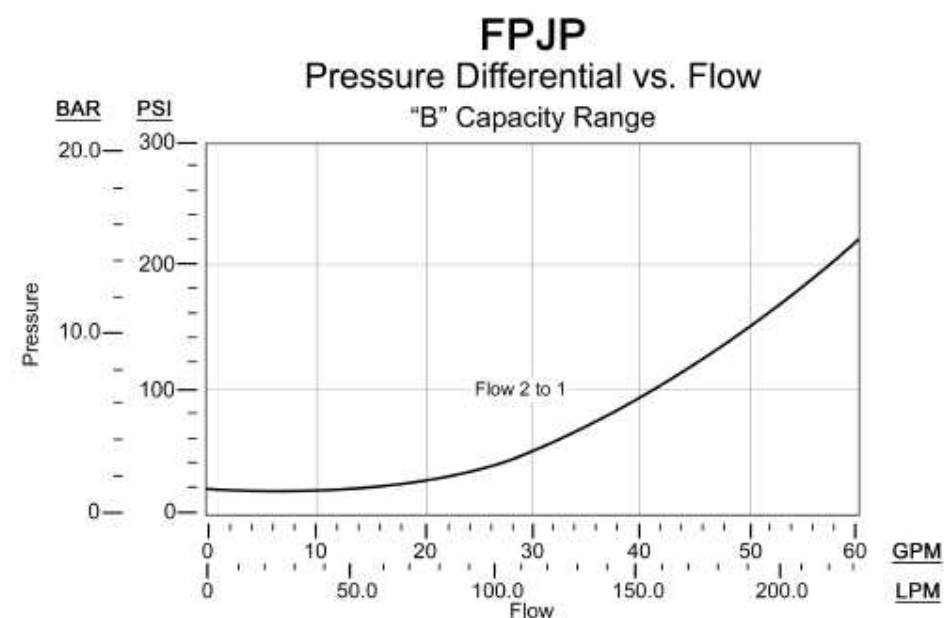
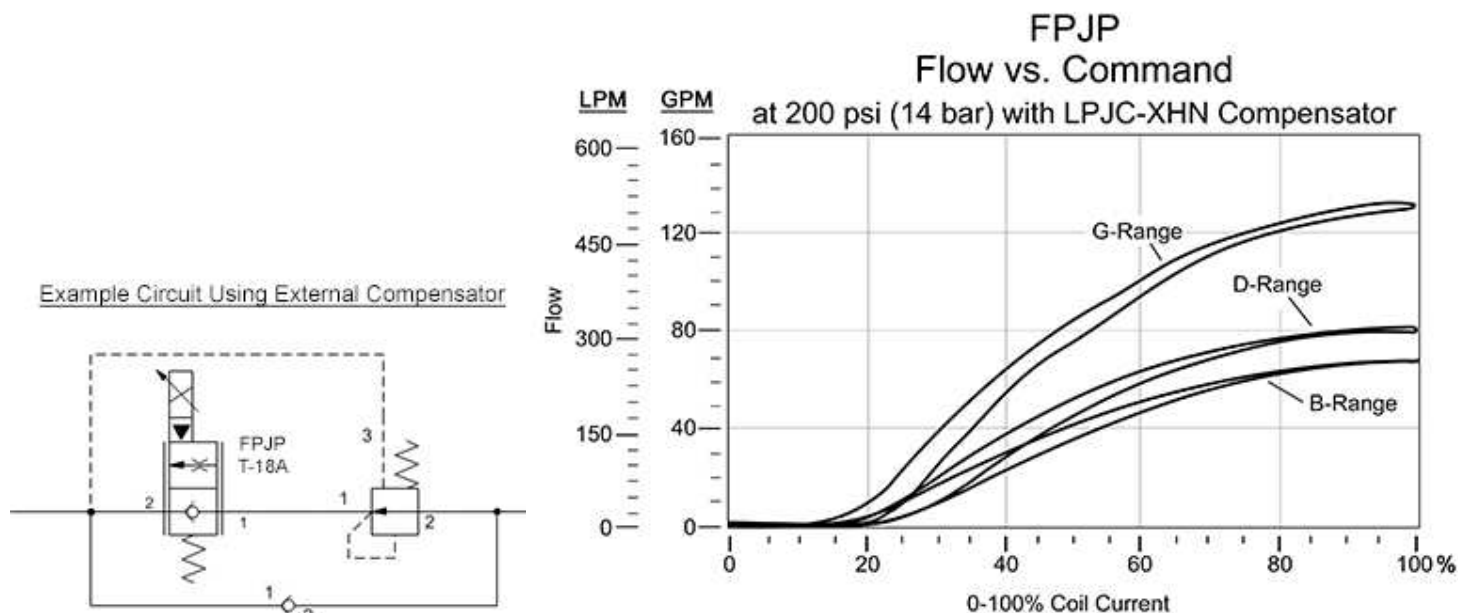
Model Code Example: FPJPXGN

CONTROL	(X) FLOW RATE	(G) SEAL MATERIAL	(N) COIL *
X -	G Nominal 120 gpm @ 200 psi (14 bar) differential (480 L/min.) B Nominal 60 gpm @ 200 psi (14 bar) differential (240 L/min.) D Nominal 80 gpm @ 200 psi (14 bar) differential (320 L/min.)	N Buna-N V Viton	No coil * Additional coil options are available

TECHNICAL FEATURES

- Capable of operating with pressures up to 5000 psi (350 bar).
- 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.
- 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.
- 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.

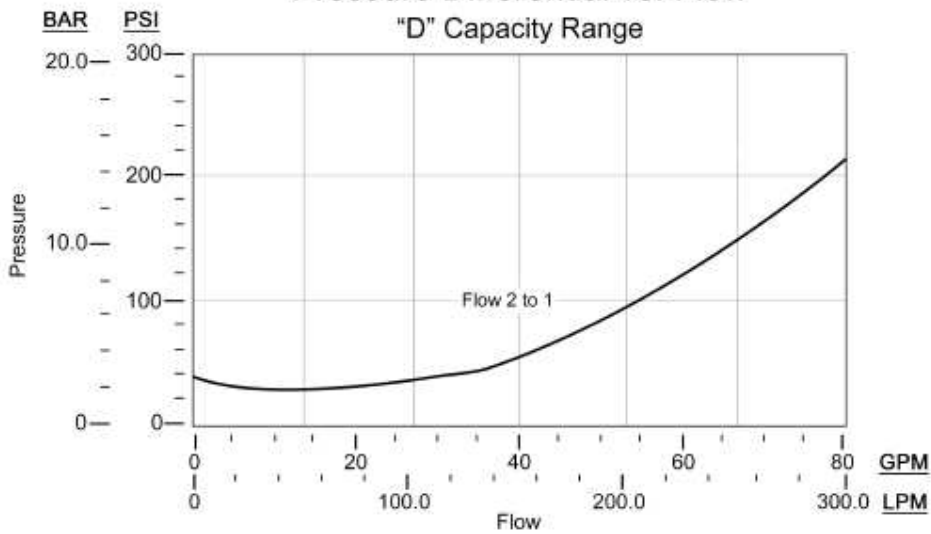
PERFORMANCE CURVES



FPJP

Pressure Differential vs. Flow

"D" Capacity Range



FPJP

Pressure Differential vs. Flow

"G" Capacity Range

