



This valve is a normally closed, electro-proportional, bypass/restrictive, priority flow control valve. The valve takes an input flow at port 1 and uses it to satisfy the priority flow at port 3. If the input flow exceeds the priority requirement, the excess is bypassed out port 2. The valve pressure compensates the priority flow for precise flow regulation for applications where there may be wide pressure fluctuations. Port 2 may also be completely blocked so that the valve can be used as a 2-way, electro-proportional pressure compensated flow control from 1 to 3.

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

Maximum Operating Pressure	5000 psi
Typical Valve Leakage at 110 SUS (24 cSt) from port 1 to port 3 at 1450 psi (100 bar)	30 mL/min.
Typical Valve Leakage at 110 SUS (24 cSt) from port 1 to port 3 at 5000 psi (350 bar)	110 mL/min.
Viscosity Range	35 - 2000 SUS
Response Time - Typical	50 ms
Switching Frequency	3,600 max. cycles/hr
Seal kit - Cartridge	Buna: 990-017-007
Seal kit - Cartridge	Viton: 990-017-006
U.S. Patent #	10,969,033

- NOTES:**
- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
 - An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: FREPXAN

CONTROL	(X)	FLOW RATE	(A)	SEAL MATERIAL	(N)	COIL *
X No Manual Override		A Nominal 8 gpm (30 L/min.)		N Buna-N		No coil
P Manual Pull Override		B Nominal 16 gpm (60 L/min.)		V Viton		* Additional coil options are available
		C Nominal 22 gpm (88 L/min.)				