



CONFIGURATION

X	Control	No Manual Override
C	Flow Rate	Nominal 22 gpm (88 L/min.)
N	Seal Material	Buna-N
(none)	Coil	No coil

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
Viscosity Range	35 - 2000 SUS
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.
Response Time - Typical	50 ms
Switching Frequency	3,600 max. cycles/hr
U.S. Patent #	10,969,033
Seal kit - Cartridge	Buna: 990017007
Seal kit - Cartridge	Viton: 990017006

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: FREPXCN

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

* Additional coil options are available