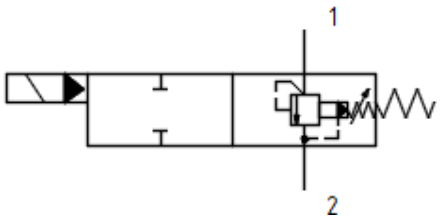
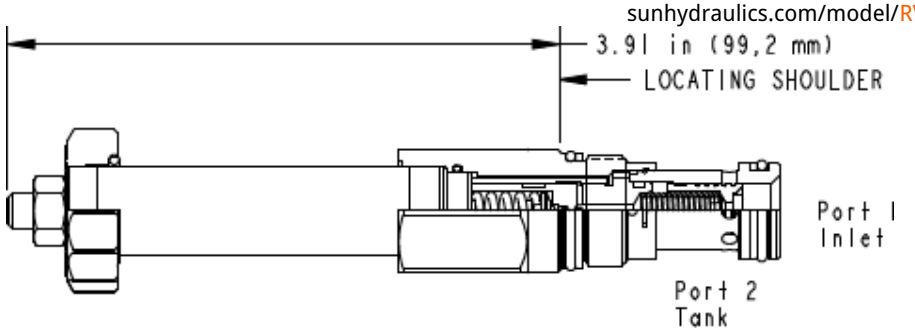
MODEL
RVCM

FLeX Series 2-stage, solenoid-operated adjustable relief valve, energize to block
SERIES 1 / CAPACITY: 25 gpm / CAVITY: T-10A

sunhydraulics.com/model/RVCM





CONFIGURATION

L	Control	Standard Screw Adjustment
J	Adjustment Range	300 - 5000 psi (20 - 350 bar), 1000 psi (70 bar) Standard Setting
N	Seal Material	Buna-N
(none)	Coil	No coil

This FLeX Series solenoid-operated, 2-stage, balanced relief cartridge is a pressure regulating valve.

The valve is normally in relief mode. In relief mode, the valve is open to tank (port 2), throttling flow to regulate the pressure when the pressure at the inlet (port 1) reaches the valve setting. The setting is adjustable with an adjust screw.

Energizing the solenoid blocks pilot flow. The valve blocks the flow path from inlet (port 1) to tank (port 2) similar to a spool-type directional valve.

TECHNICAL DATA

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

Cavity	T-10A
Series	1
Capacity	25 gpm
Maximum Operating Pressure	5000 psi
Factory Pressure Settings Established at	4 gpm
Maximum Valve Leakage at 110 SUS (24 cSt)	5 in³/min.@3000 psi
Response Time - Typical	50 ms
Response Time - Typical (Relief)	10 ms
Adjustment - No. of CW Turns from Min. to Max. setting	3.5
Valve Hex Size	7/8 in.
Valve Installation Torque	30 - 35 lbf ft
Adjustment Screw Internal Hex Size	1/8 in.
Locknut Hex Size	7/16 in.
Locknut Torque	45 - 55 lbf in.
U.S. Patent #	10,570,932
Seal kit - Cartridge	Buna: 990010007
Seal kit - Cartridge	Polyurethane: 990010002
Seal kit - Cartridge	Viton: 990010006
Model Weight	0.57 lb.

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CONFIGURATION OPTIONS

Model Code Example: RVCMArray

CONTROL (L)	ADJUSTMENT RANGE (J)	SEAL MATERIAL (N)	COIL *
L Standard Screw Adjustment	**J** 300 - 5000 psi (20 - 350 bar), 1000 psi (70 bar) Standard Setting	**N** Buna-N **E** EPDM **V** Viton	No coil * Additional coil options are available

TECHNICAL FEATURES

- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- Designed and tested to 10-million operational cycles at full-rated pressure.
- Exceeds new NFPA test standard T2.6.1 R2014 for fatigue and burst pressure ratings.
- Higher flow rates than competing valves of similar size.
- All configurations of this valve include zinc-nickel plating as standard for 1000-hour salt fog protection.
- Coil connector options offer ratings up to IP69K. See individual coil product pages for details.
- This cartridge utilizes both 740 Series high-power and 747 Series hazardous location coils.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.
- Main stage orifice is protected by a 150-micron stainless steel screen.
- Will accept maximum pressure at port 2.
- All configurations of this valve are assembled with a non-removable adjust screw.
- FLeX Series relief valves are fully compatible with the XMD Expandable Mobile Drivers from Sun.
- A FULL DATA SHEET is available for this model using the link at the top of the page.
- A wide variety of coil termination and voltage options are available, with and without surge protection. See the CONFIGURATION section.
- 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

