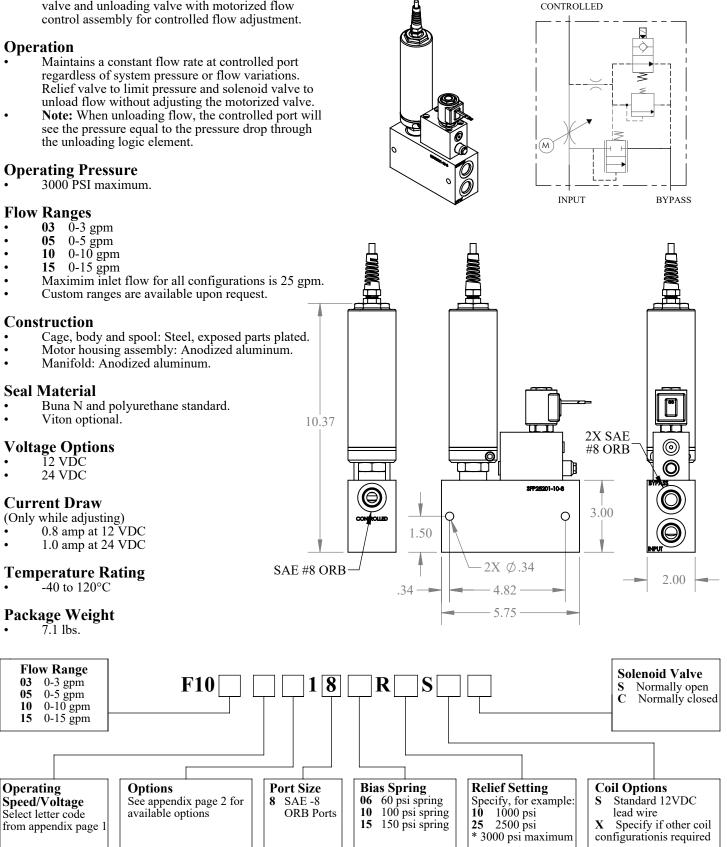
# F10

## Priority Flow Control Assembly With Relief & Unloading Valve



#### Function

Three port, bypass type, pressure compensated, relief valve and unloading valve with motorized flow control assembly for controlled flow adjustment.



## **Appendix 1: Motor Specification Sheet**



Operating speed	Motor	Motor		
letter code	Speed	voltage	Description	Where to use
12 VDC Motors				
Α	<1 sec	12 VDC	Basic motor, no electronic braking	For customers who provide their own
				closed loop control.
В	1.25 sec	12 VDC	Internal PWM speed control, no	Soft start or on/off applications toggle
			feedback	switch control.
С	2.5 sec	12 VDC	Internal PWM speed control, no	Soft start or on/off applications toggle
			feedback	switch control.
D	3.5 sec	12 VDC	Internal PWM speed control, no	Soft start or on/off applications toggle
			feedback	switch control.
E	7 sec	12 VDC	Internal PWM speed control, no	Toggle switch metering control,
			feedback	"Quick" manual metering.
F	12 sec	12 VDC	Internal PWM speed control, no	Toggle switch metering control,
			feedback	"Normal" manual metering.
G	24 sec	12 VDC	Internal PWM speed control, no	Toggle switch metering control,
			feedback	"Fine" manual metering.
Н	36 sec	12 VDC	Internal PWM speed control, no	Toggle switch metering control, "Extra
			feedback	fine" manual metering.
1	48 sec	12 VDC	Internal PWM speed control, no	Toggle switch metering control, "Extra
			feedback	fine" manual metering.
24 VDC motors				
J	1.25 sec	24 VDC	Internal PWM speed control, no	Soft start or on/off applications toggle
			feedback	switch control.
К	2.5 sec	24 VDC	Internal PWM speed control, no	Soft start or on/off applications toggle
			feedback	switch control.
L	3.5 sec	24 VDC	Internal PWM speed control, no	Soft start or on/off applications toggle
			feedback	switch control.
M	7 sec	24 VDC	Internal PWM speed control, no	Toggle switch metering control,
			feedback	"Quick" manual metering.
N	12 sec	24 VDC	Internal PWM speed control, no	Toggle switch metering control,
			feedback	"Normal" manual metering.
0	24 sec	24 VDC	Internal PWM speed control, no	Toggle switch metering control,
			feedback	"Fine" manual metering.
Р	36 sec	24 VDC	Internal PWM speed control, no	Toggle switch metering control, "Extra
			feedback	fine" manual metering.
Q	48 sec	24 VDC	Internal PWM speed control, no	Toggle switch metering control, "Extra
			feedback	fine" manual metering.
Position Control				
S		12/24	2-10 volt postion control	Valve will adjust to your 2-10 volt
		VDC		input signal. No external driver card.
12 VDC MOTORS WITH POSITION FEEDBACK				
FB	0.9 sec	12 VDC	Motor with foodback for use with	When used with our PEM-DMC
	ŧΤΕι	ISF S	PSNETRIC Engroller card	controller card it will adjust per your
	+'-	10L 3	JEINIES	variable input command.

## Appendix 2 Motorized Control Valve Options



#### Cable Length

Our standard cable length is 18 inches. To add additional cord length to your motorized flow control valve add the suffix: C (List the cable length in inches.) Omit if not required.

Example: F1015EC8010182 (Cable length is specified to 80 inches.)

#### **Wire Connectors**

We offer connectors crimped onto the end of our cords. We can do other styles of connectors for customers that require them. Consult factory. To add a standard connector to a motorized flow control add the suffix below.

#### **WPT**

Delphi Packard Weather-pack plug tower half. Pin lay out is for 2 pin connector: White wire to A terminal and Black wire to B terminal. Pin lay out for 6 pin connector: black #1 wire to A terminal, black #2 wire to B terminal, black #3 wire to C terminal, black #4 wire to D terminal, Green/yellow wire to E terminal and F terminal plugged. If ordered with a B-Q motor it will come with a 2 pin connector. If ordered with a FB or S motor it will come with a 6 pin connector.

#### WPS

Delphi Packard Weather-pack receptacle shroud half. Pin lay out is for 2 pin connector: White wire to A terminal and Black wire to B terminal. Pin lay out for 6 pin connector: black #1 wire to A terminal, black #2 wire to B terminal, black #3 wire to C terminal, black #4 wire to D terminal, Green/yellow wire to E terminal and F terminal plugged. If ordered with a B-Q motor it will come with a 2 pin connector. If ordered with a FB or S motor it will come with a 6 pin connector.

#### **DT04**

Deutsch connector, 2 pin receptacle. Pin layout is white wire to #1 terminal and black wire to #2 terminal.

#### **DT06**

Deutsch connector, 2 pin plug. Pin layout is white wire to #1 terminal and black wire to #2 terminal.

Example: F1015EWPT10182 (2 pin weather pack tower connector).

#### **Special Flow Ranges**

Valves can be supplied with different metering slots to fit special applications. Contact the factory for details and pricing.

### Ordering Example <u>F10 15 E C80 WPT 10182</u>

**F10** = Motorized flow control, 10-2 cavity size

15 = Gallons per minute at full open and 100 psi pressure differential.

**E** = Motor speed, 7 second full travel operating speed.

C80 = 80" cord length, 18 gauge cord.

**WPT** = Connector type

**10182** = line body manifold

## **Motorized Control Valve Accessories**



## **Double Pole- Double Throw Toggle Switch**

- 44269 Reversing metal toggle switch DPDP momentary ON-OFF-MOM ON
- 44214 Toggle boot for toggle switches

#### **Extension cable**

• SFP25657C-\_\_FT (List the cable length in feet). This extension cable is for use between our FB or S series motorized control valves and one of our control boxes. It includes WPT and WPS connectors on each end. The cable is housed in a abrasion resistant covering. This is to be used in conjunction with a WPT connector order on a FB or S series valve.

**Seal kits** - Replacement seal kits for the wet end (nose portion) of the motorized control valves

- SFP25247 Seal kit for the motorized flow control in the F10 size
- **SFP25148** Seal kit for the motorized pressure control in the P10/PP10 size
- SFP25674 Seal kit for the motorized flow control in the F13A size
- SFP25249 Seal kit for the motorized flow control in the F16 size
- SFP25675 Seal kit for the motorized flow control in the F16A size
- SFP25662 Seal kit for the motorized flow control in the FPC16 size
- SFP25673 Seal kit for the motorized flow control in the F20 size

## **Special Seals / Material**

- Optional Viton seals are available on special order.
- Stainless steel valves are suitable for use with water or other fluids and are also available on special order.

## **Specialty valves**

• We take pride in innovation and creative solutions to meet customer needs. This catalog is only a sample of unique solutions that we have delivered. We can customize any one of these valves to best fit the customers needs.