

Electric Flow Control Valve

Pressures to 60,000 psi (4137 bar)

The need to remotely control process flow at high pressure makes this valve a vital component to processing operations. Parker Autoclave Engineers now has a flow control valve available in several models. Parker Autoclave Engineers' control valve utilizes our standard Micro-metering valve coupled to an electric actuator. The combination of these two precision, high quality components, provide a superior low flow control valve for use with liquids and gases.

Electric Flow Control Valve Features:

- Sizes 1/8", 1/4" and 3/8"
- C_v: 0.004
- Precise, accurate control
- Temperatures: -100°F to +600°F
- End connections: low pressure and high pressure Autoclave
- Materials: 316 SS, special materials available
- Controller Enclosure Rating: IP65 Weatherproof



Electric Flow Control Valve

Flow Control Valves - Electric

Pressures to 60,000 psi (4137 bar)

Tube Outside Diameter Size Inches	Connection Type	Orifice Size Inches (mm)	Rated C_v	Pressure Rating psi (bar) @ Room Temperature**
10VRMM	1/8	W125	0.062 (1.57)	0.004 15,000 (1034)
30VRMM	1/4	F250C	0.062 (1.57)	0.004 30,000 (2069)
60VRMM	1/4	F250C	0.062 (1.57)	0.004 60,000 (4137)
60VRMM	3/8	F375C	0.062 (1.57)	0.004 60,000 (4137)

Note:

** For complete temperature ratings see pressure/temperature rating guide in Technical Information section



Controller Specifications

The microprocessor controlled motor guarantees optimum voltage, current and torque control when starting, running or stopping valve rotation. The microprocessor also assures accurate stem location and repeatability.

Power Requirement: 24VDC/50 Watts Min.

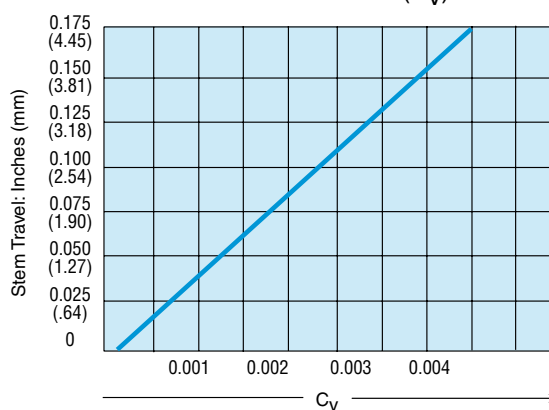
Control Input: 4-20 mA or 0-10 VDC

Operating Temperature: -22°F (-30°C) to 185°F (85°C)

2 foot lead cable

Anodized Aluminum Housing, IP65 (NEMA 4X) Weatherproof

Flow Coefficient (C_v)



Note: 1 turn is equal to 0.025" (0.64mm)

Ordering Information

Model	Control Input	No. Rotations	Controller RPMs	Fig.
10VRMM2812-C4	4 - 20 mA	6	10	1
10VRMM2812-C10	0 - 10 VDC	6	10	1
30VRMM4812-C4	4 - 20 mA	6	10	2
30VRMM4812-C10	0 - 10 VDC	6	10	2
60VRMM4812-C4	4 - 20 mA	6	10	2
60VRMM4812-C10	0 - 10 VDC	6	10	2
60VRMM6812-C4	4 - 20 mA	6	10	2
60VRMM6812-C10	0 - 10 VDC	6	10	2

Note: For micrometering valve details see needle valve section.

Valve Options

Extreme Temperatures

Standard Parker Autoclave Engineers valves with PTFE packing may be operated to 450°F (232°C). Optional packing or trim material available by adding the following suffixes to catalog order number.*

TG - standard valve with PTFE glass packing to 600°F (316°C).

B - standard valve with cryogenic trim material and PTFE packing to -100°F (-73°C).

*Parker Autoclave Engineers does not recommend compression sleeve connections below 0°F (-17.8°C) or above 650°F (343°C). For additional valve options, contact your Sales Representative.

See Needle Valve options for stem and seat coatings for erosive service.

Metering valve not to be used as a shutoff valve.

Valve Maintenance

Repair Kits: add "R" to the front of valve catalog number for proper repair kit.
(Example: **R60VRMM4882-C**)

Valve Bodies: Valve bodies are available. Order using the eight (8) digit part number found on the valve drawing or contact your Sales Representative for information.

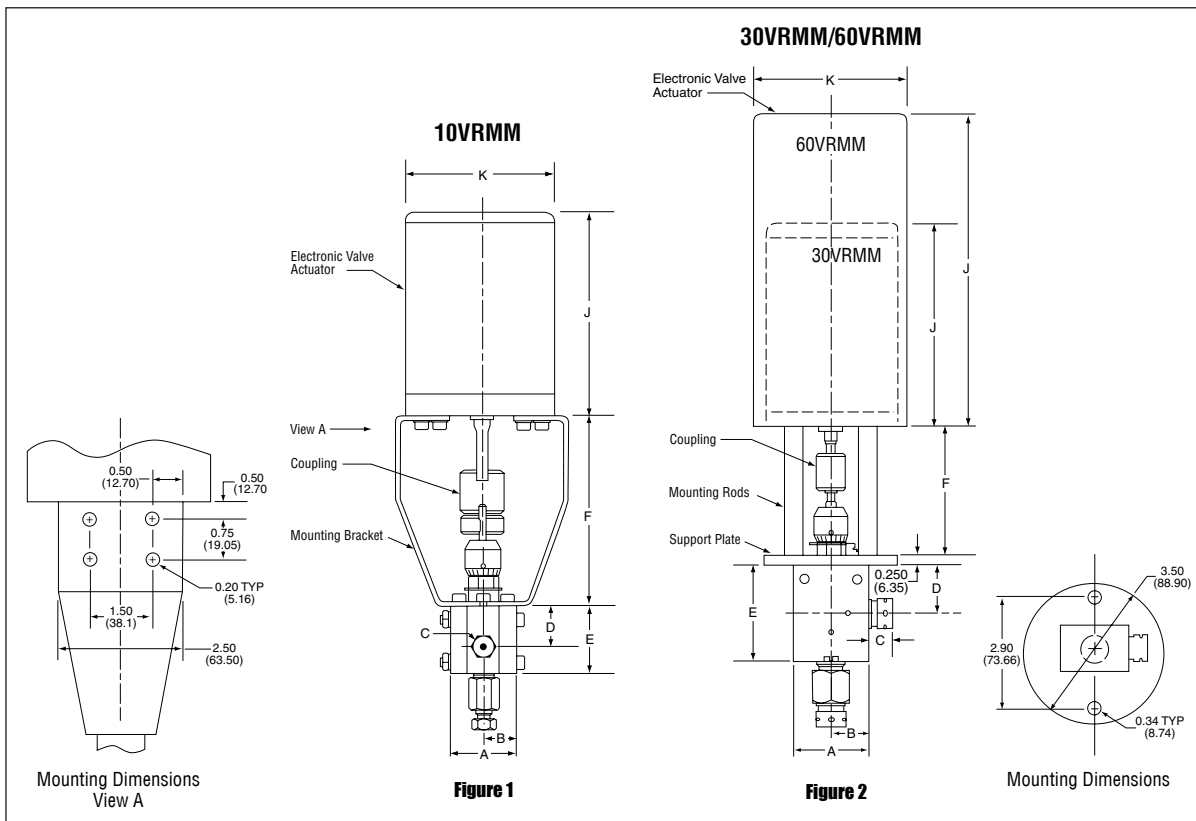
Consult your Parker Autoclave Engineers representative for pricing on repair kits and valve bodies. Refer to the Tools, Installation, Operation and Maintenance section for proper maintenance procedures.

Catalog Number	Outside Diameter Tube	Orifice Diameter	Dimensions - inches (mm)									Block Thickness	Valve Pattern
			A	B	C	D	E	F	G	J	K		

10VRMM2812-C4	1/8	0.062	1.50	0.88	0.31	0.94	1.56	4.50	2.50	4.75	3.50	0.75	See Figure 1
10VRMM2812-C10	(3.17)	(1.57)	(38.10)	(22.35)	(7.87)	(23.87)	(39.62)	(114.30)	(63.50)	(120.65)	(88.90)	(19.05)	

30VRMM4812-C4	1/4	0.062	2.00	1.00	*0.50	1.12	2.00	3.50	3.50	4.75	3.50	1.00	See Figure 2
30VRMM4812-C10	(6.35)	(1.57)	(50.80)	(25.40)	(12.70)	(28.44)	(50.80)	(88.90)	(88.90)	(120.65)	(88.90)	(25.40)	
60VRMM4812-C4	1/4	0.062	2.00	1.00	0.50	1.31	2.63	3.50	3.50	8.30	4.10	1.00	
60VRMM4812-C10	(6.35)	(1.57)	(50.80)	(25.40)	(12.70)	(33.27)	(66.80)	(88.90)	(88.90)	(210.80)	(104.14)	(25.40)	
60VRMM6812-C4	3/8	0.062	2.00	1.00	0.53	1.31	2.63	3.50	3.50	8.30	4.10	1.00	
60VRMM6812-C10	(9.53)	(1.57)	(50.80)	(25.40)	(13.46)	(33.27)	(66.80)	(88.90)	(88.90)	(210.80)	(104.14)	(25.40)	

*Distance gland extends



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