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

Parker

Autoclave Engineers

www.autoclave.com

Electric Flow Control Valve

Flow Control Valvs - 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:

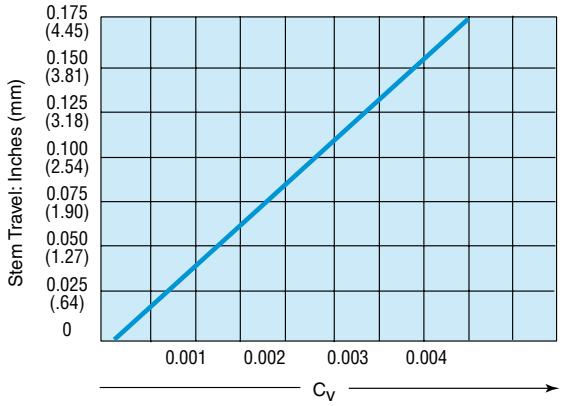
*** For complete temperature ratings see pressure/temperature rating guide in Technical Information section*



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.

All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

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

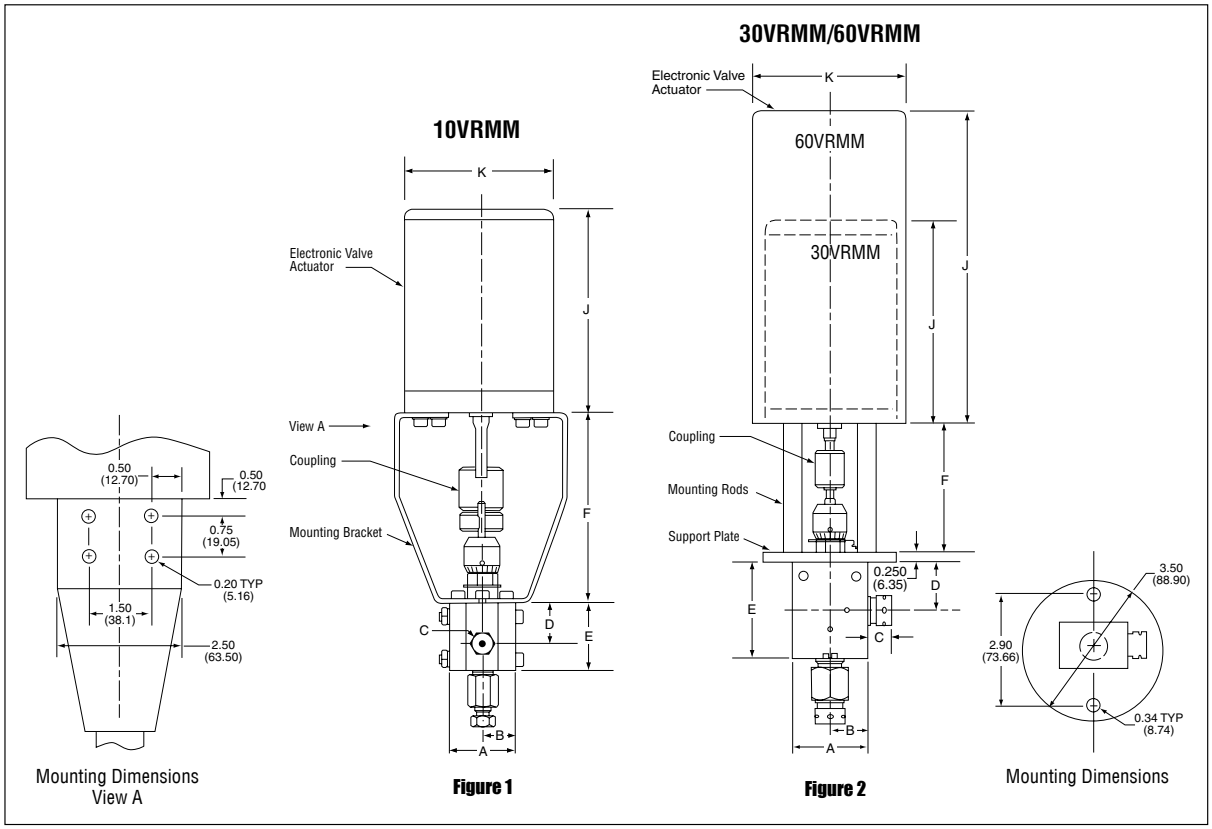
Repair Kits: add "R" to the front of valve catalog number for proper repair kit. (Example: **R60VRMM4882-C**)

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) A	B	C	D	E	F	G	J	K	Block Thickness	Valve Pattern
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



Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark