



# "V" Variable Speed

## Ideal For Automatic Process Control

- Adjustable from 90 to 1800 strokes per minute for the **QV**, and 5 to 50 strokes per minute for the **QVG50**
- Q2V Ratio-Matic®** duplex for proportional metering using a single drive.
- Q2V Ratio-Matic®** duplex reduces pulsation by 50%
- Quick connect to V300 Controller (included).

*Best Value!  
Most Versatile!*



### QV/QVG50

**QV**  
Motor Electrical: 1800 spm, TENV.

**Dimensions:**  
10" x 4 5/8" x 4 7/8" wide  
(254 x 117 x 124 mm)

**Shipping weight:**  
QV : 10 lb (4.5 kg)  
V300: 5 lb (2.25 kg)

**QVG50**  
Motor Electrical: 50 spm, TENV.

**Dimensions:**  
11" x 5" x 5 3/4" wide  
(279 x 127 x 146 mm)

**Shipping weight:**  
15 lb (6.75 kg)



### RHV

**Dimensions:**  
7 1/8" x 3" x 3" wide  
(181 x 76 x 76 mm)

**Shipping weight :**  
7 lb (3.15 kg)  
V300: 5 lb (2.25 kg)

**Electrical:**  
1800 spm, TENV.

Drive + Pump Head = Complete Pump  
Example: QVG50 + Q3CKC =

### QV/QVG50/Q2V PDM (Includes V300)

MAX. Flow/Pressure				PDM	Piston Code	Price V300
ML/MIN	GAL/HR	PSIG	BAR			
1.25	.019	100	6.90	QVG50	RH00	
2.50	.039				RH0	
4.00	.063				Q0	
5.00	.079				RH1	
16.00	.252				Q1	
36.00	.568	Q2				
64.00	.998	25	1.72	Q3		
45	.71	100	6.90	QV	RH00	
90	1.4				RH0	
144	2.2				Q0	
180	2.8				RH1	
576*	9.1				Q1	
1296*	20.4	50	3.45	Q2		
2304*	35.9	25	1.72	Q3		



Drive Options
Dial Indicator (pg.28) Part Number: - Q485 Price:
Mounting Base (pg.14) Part Number: -MB Price:

*Call Us. We Have The Answers.*

\*See Page 3 for General Specification notes

### "RHV" Low Flow (0-180 ml/min max)

- No Valves to clog, hang up or service.
- Ceramic and PVDF standard wetted materials - Tefzel available.
- One moving part - piston.
- Accuracy of better than  $\pm 1\%$  = Drift Free Operation.
- Drift-free flow ranges up to 180 ml/min, pressures from -10 to 100 psig.
- Easy grip flow control ring graduated in 450 divisions.
- Instant adjustment of flow while running.
- Adjustable from 90 to 1800 strokes per minute.
- Quick connect to V300 Controller (included).

### RHV Pumps (Includes V300)

MAX. Flow/Pressure			Complete Pump	Wetted Parts	MAX. Temp	Price V300		
ML/MIN	PSIG	BAR						
45	100	6.90	RHV00SKY	316 SS/PVDF/Carbon	140° F			
90			RHV0CKC					
180			RHV1CKC				Ceramic / PVDF	212° F
45			RHV00CTC	Ceramic / Tefzel	140° F			
90			RHV0CTC					
180			RHV1CTC	Ceramic / Tefzel	212° F			



# Variable Speed "V"

## Variable Stroke Rate to 2300 ml/min



**New**

### "V300" Automatic Rate Control/System

#### QV, QVG50, RHV and Q2V Pump Drive Modules

- Selectable 4-20 mA, 0-5 VDC, & 0-10 VDC input for automatic control.
- Membrane Switches for manual Flow Rate Settings and Start / Stop functions.
- Start, Stop & Reverse Flow while maintaining flow settings.
- Large 3 Digit LCD Flow Display.
- Universal Power Input accepts 100-240 VAC 50/60 Hz
- Rugged, anodized aluminum enclosure designed for both bench-top & wall mounting

**Dimensions:** 7 1/4" x 5 1/8" x 6 1/4" wide  
182 mm x 128 x 159 mm



**V300**



Selectable 4-20 mA, 0-5 VDC, & 0-10 VDC input for automatic control. QV, QVG50, RHV & Q2V Pump Drive Modules.



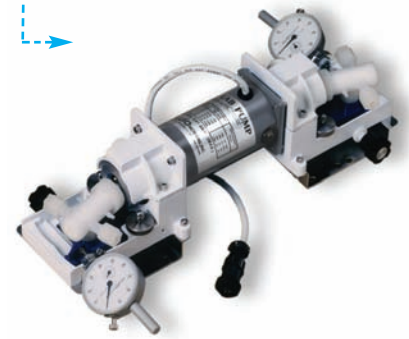
Digital LCD Flow Display

#### PUMP HEAD MODULE

Piston Size Code	Materials of Construction								
	CKC	CKY	CSC	CSY	SAN	SKY	SSY	STY	CTC
RH00									
RH0									
RH1									
Q0									
Q1									
Q2									
Q3									
<b>Wetted Parts</b>	Ceramic PVDF	Ceramic PVDF Carbon	Ceramic 316 SS	Ceramic 316 SS Carbon	Ceramic Teflon	316 SS PVDF Carbon	316 SS Carbon	316 SS Tefzel Carbon	Ceramic Tefzel
<b>MAX.Temp</b>	212° F	212° F	350° F	350° F	350° F	140° F	140° F	140° F	212° F
<b>Options</b>	(add Option Code & cost to Pump Module for complete price and part number)								
LF (pg.27)	N/C	N/C				N/C		N/C	N/C
W (pg.26)									
WT (pg.26)									
TC (pg.26)									
R479 (Pg.28)									
S ("Q" Only)									

## RATIO:MATIC®

### Proportional Dual Head Pump Drive Module



**Q2V**

**Dimensions :**  
15" x 4 7/8" x 5 1/8" wide  
(381 x 124 x 130 mm)  
**Shipping weight:**  
15 lb (6.75 kg)

\*See page 4 "Pump Head Materials Configuration" for additional information.  
\*\*Q1 & Q2 = \$30 / Q3 = \$40



# Pneumatic "PD"

## For Non Electric Operation

- Provides a compact, variable speed, air powered drive.
- Ideal power alternative when electrical power source not available.
- SPD up to 1800 strokes per minute.
- GPD up to 400 strokes per minute.



Example: Drive + Pump Head = Complete Pump  
 SPD + Q1CKC =

### SPD PDM (PUMP DRIVE MODULE)

MAX. Flow/Pressure			PDM	Piston Code	Drive Price
ML/MIN	PSIG	BAR			
45	100	6.90	SPD	RH00	
90				RH0	
144				Q0	
180				RH1	
576				Q1	
1296	50	3.45	GPD	Q2	
2304	25	1.72		Q3	

### GPD PDM (PUMP DRIVE MODULE)

MAX. Flow/Pressure			PDM	Piston Code	Drive Price
ML/MIN	PSIG	BAR			
10.00	100	6.90	GPD	RH00	
20.00				RH0	
32.00				Q0	
40.00				RH1	
128.00				Q1	
288.00*	40	2.76	GPD	Q2	
512.00*	25	1.72		Q3	



**Drive Options**

**Dial Indicator (pg. 28)**  
 Part Number: -Q485  
**Price:**

**FMI Pulse Dampener (pg. 29)**  
 Part Number: "58003"  
**Price:**

**SPD  
GPD**

**Dimensions:**  
 8" x 3" x 3" wide  
 (203 x 76 x 76 mm)

**Specification:**  
**SPD:** Air requirements  
 9-10 CFM at 40 psig.  
 Air Inlet size: 1/8" (F) NPT.

**GPD:** Heavy-duty gear box  
 Air requirements:  
 14-16 CFM at 40 psig.  
 Air Inlet size: 1/8" (F) NPT.

Shipping weight: 9 lb (4.05 kg).



**Q485 Dial Indicator** for ultra fine flow adjustment  
**Price:** (pg 28 for more info)

\*See Page 3 for General Specification

### PHM (PUMP HEAD MODULE)

Piston Size Code	Materials of Construction								
	CKC	CKY	CSC	CSY	SAN	SKY	SSY	STY	CTC
RH00									
RH0									
RH1									
Q0									
Q1									
Q2									
Q3									
<b>Wetted Parts</b>	Ceramic PVDF	Ceramic PVDF Carbon	Ceramic 316 SS	Ceramic 316 SS Carbon	Ceramic Teflon	316 SS PVDF Carbon	316 SS Carbon	316 SS Tefzel Carbon	Ceramic Tefzel
<b>MAX.Temp</b>	212° F	212° F	350° F	350° F	350° F	140° F	140° F	140° F	212° F
<b>Options</b>	(add Option Code & cost to Pump Module for complete price and part number)								
LF (pg.27)	N/C	N/C				N/C		N/C	N/C
W (pg.26)									
WT (pg.26)									
TC (pg.26)									
R479 (Pg.28)									
S ("Q" Only)									

\*See page 4 "Pump Head Materials Configuration" for additional information.  
 \*\*Q1 & Q2 = \$30 / Q3 = \$40

*Can't decide?  
 Call us, we have the answers.*

