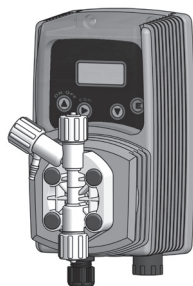


# "VMS" series Metering Pumps

## Data Sheet



- Wall mounted, with display
- Microprocessor technology
- Manual venting PVDF pump head
- All liquid ends (pump head, injection valve, foot filter) are in PVDF

Power supply: 230 VAC (190÷265 VAC) - 50/60 Hz  
 115 VAC (90÷135 VAC) - 50/60 Hz  
 24 VAC (20÷32 VAC) - 50/60 Hz  
 24 VDC (20÷32 VDC)  
 12 VDC (10÷16 VDC)

Pump Strokes 0-120  
 Environment Temperature: 0-45°C (32-113°F)  
 Chemical Temperature: 0-50°C (32-122°F)  
 Packaging and Transporting Temperature: -10-50°C  
 Installation Class: II  
 Pollution Level: 2  
 Audible Noise: 70,4 db(A)  
 Protection Degree Rating: IP65 (% working RU: 85% T≤40°C; 70% T=50°C - without condensing water)  
 Max altitude: 2000 m



## Configuration Code

MODEL		
CODE	MODEL	FUNCTION
MF	"VMS MF"	Digital multifunction pump (Constant, Divide, Multiply, PPM, Batch, Volt, mA, %, ml/g), with level control. Recovery fault mode, work-pause mode and upkeep mode.
PH	"VMS PH"	Proportional pump driven by internal built-in pH meter (0-14pH) and level control, supplied without probe. Also available with mA output (0/4 - 20 mA).
RH	"VMS RH"	Proportional pump driven by internal built-in orp meter (0-1000mV) and level control, supplied without probe.
EN	"VMS EN"	Pump with weekly timer, microprocessor, digital controls, LCD display, level probe and electrovalve control.

CAPACITIES				
	VMS Models		Hoses	Pump head
2001	1 l/h at 20 bar	0,26 GPH at 290 PSI	4 x 8	J
1802	2 l/h at 18 bar	0,52 GPH at 261 PSI	4 x 8	K
1804	4 l/h at 18 bar	1,05 GPH at 261 PSI	4 x 8	K
1502	2 l/h at 15 bar	0,52 GPH at 217 PSI	4 x 6	K
1504	4 l/h at 15 bar	1,05 GPH at 217 PSI	4 x 6	K
1505	5 l/h at 15 bar	1,32 GPH at 217 PSI	4 x 6	K
1004	4 l/h at 10 bar	1,05 GPH at 145 PSI	4 x 6	K
1005	5 l/h at 10 bar	1,32 GPH at 145 PSI	4 x 6	K
1010	10 l/h at 10 bar	2,64 GPH at 145 PSI	4 x 6	K
0706	6 l/h at 7 bar	1,58 GPH at 101 PSI	4 x 6	K
0510	10 l/h at 5 bar	2,64 GPH at 72 PSI	4 x 6	K
0512	12 l/h at 5 bar	3,17 GPH at 72 PSI	4 x 6	K
0501	1 l/h at 5 bar	0,26 GPH at 72 PSI	4 x 6	J
0408	8 l/h at 4 bar	2,11 GPH at 58 PSI	4 x 6	K
0310	10 l/h at 3 bar	2,64 GPH at 43 PSI	4 x 6	K
0217	17 l/h at 2 bar	4,49 GPH at 29 PSI	6 x 8	K
0116	16 l/h at 1 bar	4,22 GPH at 14 PSI	6 x 8	K

Model V MF 2001 4 00 00

POWER SUPPLY	
00	230 VAC Schuko plug
05	230 VAC australian plug
01	230 VAC without plug
03	115 VAC US plug
04	24 VAC without plug
05	12 VDC *
07	24 VDC

\* On some models only.

LIQUID ENDS								
	HEAD	ORINGS	VALVES		DIAPHRAGM	HOSES		VISCOSITY Max CPS
			Body	Balls		Delivery	Suction	
1	PVDF	FKM B	PVDF	Ceramic	PTFE	PE	PVC	100
3	PVDF	EPDM	PVDF	Ceramic	PTFE	PE	PVC	100
4*	PVDF	FKM B	PVDF	Ceramic	PTFE	PE	PVC	100
5*	PVDF	EPDM	PVDF	Ceramic	PTFE	PE	PVC	100
V	PP	FKM B	PP	Ceramic	PTFE	PVDF	PVC	100
D	PP	EPDM	PP	Ceramic	PTFE	PVDF	PVC	100
W	PP	Nytrile	PP	Ceramic	PTFE	PVDF	PVC	100

\* Use for capacities up to 1 l/h.



ISO 9001:2008  
 ISO 14001:2004  
 OHSAS 18001:2007



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Specifications subject to change without notice.  
 EN R1-07-13

## Technical features

INFORMATION					
MODEL	Strokes speed		Power consumption at max flow (230 VAC)	Power consumption at max flow (115 VAC)	Weight
	min	max			
2001	1	180	16	13	2,2 KG (4.85 LBS)
1802	1	180	16	13	
1804	1	180	22	15	
1502	1	180	16	11	
1504	1	180	16	13	
1505	1	180	22	15	
1004	1	180	16	11	
1005	1	180	16	13	
1010	1	180	22	15	
0706	1	180	16	11	
0510	1	180	16	13	
0512	1	180	22	15	
0501	1	180	16	11	
0408	1	180	16	11	
0310	1	180	16	11	
0217	1	180	22	15	
0116	1	180	16	13	

CAPACITY							
MODEL	FLOW				cc per STROKE	Maximum pressure	
	min cc/h	max l/h	Min GPH	Max GPH		bar	PSI
	2001	0,09	1	0,02			
1802	0,06	2	0,02	0,53	0,19	18	261
1804	0,11	4	0,03	1,06	0,37	18	261
1502	0,06	2	0,02	0,53	0,19	15	217
1504	0,11	4	0,03	1,06	0,37	15	217
1505	0,14	5	0,04	1,32	0,46	15	217
1004	0,11	4	0,03	1,06	0,37	10	145
1005	0,14	5	0,04	1,32	0,46	10	145
1010	0,28	10	0,07	2,64	0,93	10	145
0706	0,17	6	0,04	1,58	0,56	7	101
0510	0,28	10	0,07	2,64	0,93	5	72
0512	0,33	12	0,09	3,17	1,11	5	72
0501	0,03	1	0,01	0,26	0,09	5	72
0408	0,22	8	0,06	2,11	0,74	4	58
0310	0,93	10	0,25	2,64	0,93	3	43
0217	0,47	17	0,12	4,49	1,57	2	29
0116	0,44	16	0,12	4,23	1,48	1	14

FUSE		
MODEL	230 VAC	115 VAC
2001	1	500
1802	1	500
1804	1.25	630
1502	800	400
1504	1	500
1505	1.25	630
1004	800	400
1005	1	500
1010	1.25	630
0706	800	400
0510	1	500
0512	1.25	630
0501	800	400
0408	800	400
0310	800	400
0217	1.25	630
0116	1	500

QUANTITY	PACKAGE CONTENT
n. 1	Assembly kit
n. 1	5 X 20 delayed fuse
n. 1	Level probe with axial foot filter (PVDF) (level probe not in CO model)
n. 1	0,3 Bar injection valve (PVDF)
m 2	Delivery hose
m 2	Suction hose
m 2	Discharge hose
m 2,5	Input signal cable
n.1	Operating manual

POWER SUPPLY
230 VAC (190÷265 VAC)
115 VAC (90÷135 VAC)
24 VAC (20÷32 VAC)
12 VDC (10÷16 VDC)

## Dimension

mm [inches]

DIMENSIONS		
	mm	inches
A	106.96	4.21
B	210.44	8.28
C	199.44	7.85
D	114.50	4.50
E	187.96	7.40
F	97.00	3.81
G	106.96	4.21
H	125.47	4.93
L	50.00	1.96

