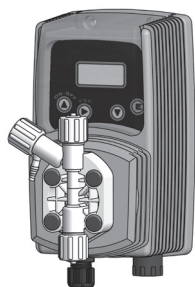


# "VMS PO" series Metering Pumps

## Data Sheet



- Wall mounted, with display
- Manual venting PVDF pump head (VMS PO) or self venting PVDF pump head (VMSA PO)
- All liquid ends (pump head, injection valve, foot filter) .... PVDF
- Enclosure ..... PPO
- Environment temperature.....0-45°C ( 32-113°F)
- Chemical temperature.....0-50°C (32-122°F)
- Transportation and storage temperature .....-10-50°C (14-122°F)
- Altitude .....2000 m AMSL
- Installation class .....II
- Pollution level .....2
- Audible noise.....70.4db(A)
- Protection degree .....IP 65 (RU working %: 85% with T<=40°C;  
70% with T=50°C without condensing water)

## Configuration Code

MODELS		
CODE	MODEL	FUNCTION
PO	"VMS PO"	<ul style="list-style-type: none"> <li>• <b>pH</b> or <b>ORP</b> control and regulation: parameter set by menu.</li> <li>• Range: pH: <b>0/14 pH</b>; ORP: <b>-1000mV/+1000mV</b>.</li> <li>• <b>Fast calibration</b> on standard value.</li> <li>• Restore last calibration saved.</li> <li>• Alarm output statut N.O. / N.C.</li> <li>• Programmable delay at dosing start up.</li> <li>• Stand-by input.</li> <li>• Optional level alarm output.</li> </ul>
AP	"VMSA PO"	VMS PO with self venting pump head

CAPACITIES									
VMS PO Models					Hoses	Pump head	VMSA PO Models		
2001	1 l/h at 20 bar	0.26 GPH at 290 PSI	4 x 8	J			1802	0.52 GPH at 261 PSI	4 x 8
1802	2 l/h at 18 bar	0.52 GPH at 261 PSI	4 x 8	K			1503	0.79 GPH at 217 PSI	4 x 6
1804	4 l/h at 18 bar	1.05 GPH at 261 PSI	4 x 8	K			1501	0.26 GPH at 217 PSI	4 x 6
1502	2 l/h at 15 bar	0.52 GPH at 217 PSI	4 x 6	K			103.4	0.89 GPH at 145 PSI	4 x 6
1504	4 l/h at 15 bar	1.05 GPH at 217 PSI	4 x 6	K			1007	1.84 GPH at 145 PSI	4 x 6
1505	5 l/h at 15 bar	1.32 GPH at 217 PSI	4 x 6	K			1002	0.52 GPH at 145 PSI	4 x 6
1004	4 l/h at 10 bar	1.05 GPH at 145 PSI	4 x 6	K			100.5	0.14 GPH at 145 PSI	4 x 6
1005	5 l/h at 10 bar	1.32 GPH at 145 PSI	4 x 6	K			0704	1.05 GPH at 101 PSI	4 x 6
1010	10 l/h at 10 bar	2.64 GPH at 145 PSI	4 x 6	K			057.5	1.98 GPH at 72 PSI	4 x 6
0706	6 l/h at 7 bar	1.58 GPH at 101 PSI	4 x 6	K			0509	2.37 GPH at 72 PSI	4 x 6
0510	10 l/h at 5 bar	2.64 GPH at 72 PSI	4 x 6	K			045.5	1.45 GPH at 58 PSI	4 x 6
0512	12 l/h at 5 bar	3.17 GPH at 72 PSI	4 x 6	K			0307	1.84 GPH at 43 PSI	4 x 6
0501	1 l/h at 5 bar	0.26 GPH at 72 PSI	4 x 6	J			0212	3.2 GPH at 29 PSI	6 x 8
0408	8 l/h at 4 bar	2.11 GPH at 58 PSI	4 x 6	K			0113.5	3.56 GPH at 14 PSI	6 x 8
0310	10 l/h at 3 bar	2.64 GPH at 43 PSI	4 x 6	K					
0215	15 l/h at 2 bar	3.96 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 **PO** **2001** **4** **00** **00**

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.

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.



## VMS PO Technical features

VMS PO					
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	
0215	1	180	16	13	
0116	1	180	16	13	

CAPACITY						
MODEL	FLOW			cc per STROKE	Maximum pressure	
	min cc/h	max l/h	Max GPH		bar	PSI
2001	0.09	1	0.26	0.09	20	290
1802	0.19	2	0.53	0.19	18	261
1804	0.37	4	1.06	0.37	18	261
1502	0.19	2	0.53	0.19	15	217
1504	0.37	4	1.06	0.37	15	217
1505	0.46	5	1.32	0.46	15	217
1004	0.37	4	1.06	0.37	10	145
1005	0.46	5	1.32	0.46	10	145
1010	0.93	10	2.64	0.93	10	145
0706	0.56	6	1.58	0.56	7	101
0510	0.93	10	2.64	0.93	5	72
0512	1.11	12	3.17	1.11	5	72
0501	0.09	1	0.26	0.09	5	72
0408	0.74	8	2.11	0.74	4	58
0310	0.93	10	2.64	0.93	3	43
0215	1.39	15	3.96	1.39	2	29
0116	1.48	16	4.23	1.48	1	14

FUSE		
MODEL	230 VAC	115 VAC
2001	1 A	500 mA
1802	1 A	500 mA
1804	1.25 A	630 mA
1502	800 mA	400 mA
1504	1 A	500 mA
1505	1.25 A	630 mA
1004	800 mA	400 mA
1005	1 A	500 mA
1010	1.25 A	630 mA
0706	800 mA	400 mA
0510	1 A	500 mA
0512	1.25 A	630 mA
0501	800 mA	400 mA
0408	800 mA	400 mA
0310	800 mA	400 mA
0215	1.25	630
0116	1 A	500 mA

QUANTITY	PACKAGE CONTENT
n. 1	Assembly kit
n. 1	5 X 20 delayed fuse
n. 1	Level probe with axial foot filter (PVDF)
n. 1	0,3 Bar injection valve (PVDF)
m 2	Delivery hose
m 2	Suction hose
m 2	Discharge hose
m 2	Stand-by cable
n.1	Operating manual

POWER SUPPLY	FREQUENCY
230 VAC (190-265 VAC)	50/60 Hz
115 VAC (90-135 VAC)	50/60 Hz
24 VAC (20-32 VAC)	50/60 Hz
12 VDC (10-16 VDC)	/

## VMSA PO Technical features

VMSA PO					
Models	Strokes speed		Power consumption at max flow (230 VAC)	Power consumption at max flow (115 VAC)	Weight
	min	max			
1802	1	180	22	15	2,2 KG (4.85 LBS)
1503	1	180	22	15	
1501	1	180	16	11	
103,4	1	180	16	13	
1007	1	180	22	15	
1002	1	180	16	11	
100,5	1	180	16	11	
0704	1	180	16	11	
057,5	1	180	16	13	
0509	1	180	22	15	
045,5	1	180	16	11	
0307	1	180	16	11	
0212	1	180	16	13	
0113,5	1	180	16	13	

MORE INFORMATION ABOUT VMSA MODELS						
Model	FLOW			cc per STROKE	Maximum pressure	
	min cc/h	max l/h	Max GPH		bar	PSI
1802	0.19	2	0.53	0.19	18	261
1503	0.28	3	0.79	0.28	18	217
1501	0.09	1	0.26	0.09	15	217
103,4	0.31	3.4	0.9	0.31	10	145
1007	0.65	7	1.85	0.65	10	145
1002	0.19	2	0.53	0.19	10	145
0704	0.37	4	1.06	0.37	7	101
057,5	0.69	7.5	1.98	0.69	5	72
0509	0.83	9	2.38	0.83	5	72
045,5	0.51	5.5	1.45	0.51	4	58
0307	0.65	7	1.85	0.65	3	43
0212	1.11	12	3.17	1.11	2	29
0113,5	1.25	13.5	3.57	1.25	1	14

FUSE		
MODEL	230 VAC	115 VAC
1802	1A	500 mA
1503	1.25 A	630 mA
1501	800 mA	400 mA
103,4	1A	500 mA
1007	1.25 A	630 mA
1002	800 mA	400 mA
100,5	800 mA	400 mA
0704	800 mA	400 mA
057,5	1A	500 mA
0509	1.25 A	630 mA
045,5	800 mA	400 mA
0307	800 mA	400 mA
0212	1.25 A	1.25 A
0113,5	1A	500 mA

QUANTITY	PACKAGE CONTENT
n. 1	Assembly kit
n. 1	5 X 20 delayed fuse
n. 1	Level probe with axial foot filter (PVDF)
n. 1	0,3 Bar injection valve (PVDF)
m 2	Delivery hose
m 2	Suction hose
m 2	Discharge hose
m 2	Stand-by cable
n.1	Operating manual

POWER SUPPLY	FREQUENCY
230 VAC (190-265 VAC)	50/60 Hz
115 VAC (90-135 VAC)	50/60 Hz
24 VAC (20-32 VAC)	50/60 Hz
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

