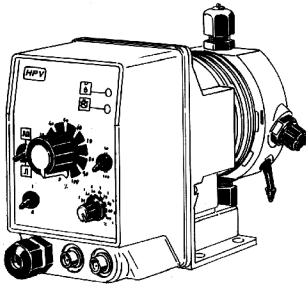
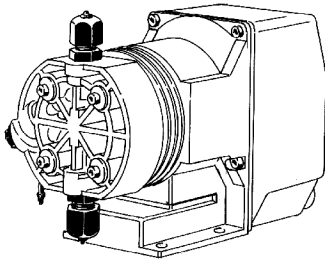


"H" series Metering Pumps

Data Sheet

"HA Self-Venting"

Configuration



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

MODELS			
Standard	Self Venting		
CO	OA	"HCO"	Constant pump with stroke speed (frequency) adjustment and stroke length adjustment.
CL	LA	"HCL"	Constant pump with level control, stroke speed (frequency) adjustment and stroke length adjustment.
IS	CS	"HIS"	Constant-Proportional pump driven by external digital signal, with level control: to each external pulse.
PV	AV	"HPV"	Constant-Proportional pump driven by external digital signal, with pulse divider mode (ratio 1 to 100) and level control.
MV	AM	"HPVM"	Constant-Proportional pump driven by external digital signal, level control, with pulse divider mode (ratio 1 to 100) and multiplier mode (ratio 1 to 10).
IC	AI	"HIC"	Constant-Proportional pump driven by current signal (0/4mA=0 pulses ;20mA = max pulses) and level control.

CAPACITIES			HOSE	VALVE
2001	1 l/h against 20 bar	0.26 GPH against 290 PSI	1/4" PVDF	3/8"
1802	2 l/h against 18 bar	0.53 GPH against 261 PSI	1/4" PVDF	3/8"
1004	4 l/h against 10 bar	1.06 GPH against 145 PSI	3/8" PVDF	3/8"
0706	6 l/h against 7 bar	1.59 GPH against 102 PSI	3/8"	3/8"
0408	8 l/h against 4 bar	2.11 GPH against 58 PSI	3/8"	3/8"
0216	16l/h against 2 bar	4.23 GPH against 29 PSI	3/8"	1/2"

CAPACITIES Self Venting MODELS				
200,5	0,5 l/h against 20 bar	0.13 GPH against 290 PSI	1/4" PVDF	3/8"
1801	1 l/h against 18 bar	0.26 GPH against 261 PSI	1/4" PVDF	3/8"
102,8	2,8 l/h against 10 bar	0.74 GPH against 145 PSI	3/8" PVDF	3/8"
0704	4 l/h against 7 bar	1.06 GPH against 102 PSI	3/8"	3/8"
0406	6 l/h against 4 bar	1.59 GPH against 58 PSI	3/8"	3/8"
0211	11 l/h against 2 bar	2.90 GPH against 29 PSI	3/8"	1/2"

POWER SUPPLY	
00	230 VAC Schuko plug
0S	230 VAC Australian plug
01	230 VAC Whitout plug
03	115 VAC US plug
04	24 VAC Whitout plug
05	12 VDC *
07	24 VDC
* Not available on some models.	

Model H CO 2001 V 00 00

LIQUID ENDS								
	Head	Orings	Valve		Diaphragm	Hose		Viscosity
			Body	Balls		Delivery	Suction	Max CPS
V	Polypropylene	Viton®	Polypropylene	Ceramic	PTFE	Polyethylen	PVC	100
D	Polypropylene	Etylene Propylene	Polypropylene	Ceramic	PTFE	Polyethylen	PVC	100
W	Polypropylene	Nytrile	Polypropylene	Ceramic	PTFE	Polyethylen	PVC	100
T	Polypropylene	Viton®+PTFE	Polypropylene	Ceramic	PTFE	Polyethylen	PVC	100
S	Polypropylene	Silicone	Polypropylene	Ceramic	PTFE	Polyethylen	PVC	100
A	Acrylic	Viton®	Polypropylene	Ceramic	PTFE	Polyethylen	PVC	100
K	PVDF	Viton®	PVDF	Ceramic	PTFE	PVDF	PVDF	100
P	PVDF	EPDM	PVDF	Ceramic	PTFE	PVDF	PVDF	100
Z	SS	Viton®	SS	SS	PTFE	N/A	N/A	100
\$	Acrylic	Viton®	Polypropylene	SS+Hastelloy spring	PTFE	Polyethylen	PVC	8000*

Viton® is a registered trademark of DuPont Dow Elastomers.

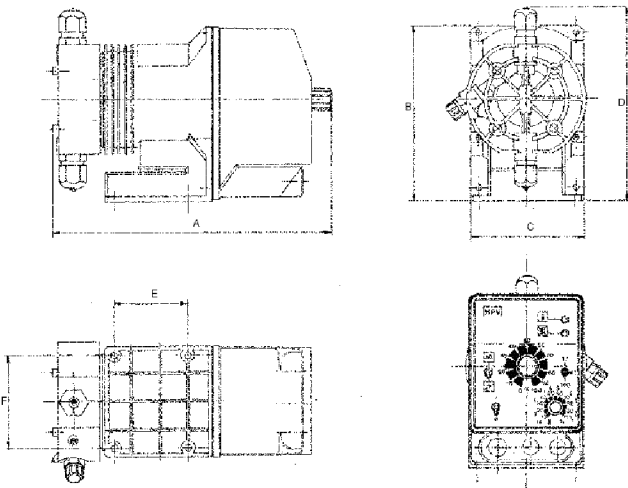
* Using high viscosity pump head "\$" pump output may result lower in some applications.

"H" series Metering Pumps

Data Sheet

"HA Self-Venting"

INFORMATION								
	Stroke per minute		Stroke length range reliability	Power consumption at (230 VAC)	Power consumption at (115 VAC)	Power consumption at (24 VDC/ VAC)	Power consumption at (12VDC)	Weight
	Min	Max						
2001	12	120	from 30% to 100%	19 Watt	24 Watt	12 Watt	8.8 Watt	4.1 Kg (9.02 Lbs)
1802	15	150						
1004	15	150						
0706	15	150						
0408	15	150						
0216	15	150						
INFORMATION FOR MODELS Auto Spurgo								
200,5	12	120	from 30% to 100%	19 Watt	24 Watt	12 Watt	N/A	
1801	15	150						
102,8	15	150						
0704	15	150						
0406	15	150						
0211	15	150						



DIMENSIONS		
	mm	inches
A	236	9.29
B	144	5.66
C	91	3.58
D	160	6.29
E	61	2.40
F	77	3.03

IP65 enclosure (NEMA4x)
 "H" metering pumps are manufactured in molded glass filled and Polypropylene housing to ensure protection against aggressive chemicals and tough environment.

MORE INFORMATION								
	Flow				cc per minute		Maximum Injection Pressure	
	Min cc/h	Max l/h	Min GPH	Max GPH	Min	Max		
2001	30	1	0.007	0.26	0.042	0.14	20 bar	290 PSI
1802	60	2	0.015	0.52	0.069	0.23	18 bar	261 PSI
1004	120	4	0.031	1.05	0.135	0.45	10 bar	145 PSI
0706	180	6	0.047	1.58	0.198	0.66	7 bar	101 PSI
0408	240	8	0.063	2.11	0.267	0.89	4 bar	58 PSI
0216	480	16	0.126	4.22	0.54	1.8	2 bar	29 PSI
MORE INFORMATION FOR Self Venting MODELS								
200,5	15	0.5	0.004	0.13	0.021	0.07	20 bar	290 PSI
1801	30	1	0.007	0.26	0.033	0.11	18 bar	261 PSI
102,8	84	2.8	0.022	0.74	0.093	0.31	10 bar	145 PSI
0704	12	4	0.031	1.06	0.132	0.44	7 bar	101 PSI
0406	18	6	0.047	1.59	0.201	0.67	4 bar	58 PSI
0211	33	11	0.087	2.91	0.366	1.22	2 bar	29 PSI