

DOSING PUMPS SERIES GTM M



- Flow rate up to 500 l/h - Pressure up to 12 bar
- Mechanically actuated diaphragm
- Variable eccentric drive mechanism
- Homogeneous or heterogeneous multiplexing capabilities

Main technical characteristics

- Flow rate up to 500 l/h
- Pressure up to 12 bar
- Mechanically actuated PTFE diaphragm
- Stroke adjustment by variable eccentric ensuring a flow with low pulsing (no hydraulic shocks)
- Maximum temperature of pumped fluid: 40 °C
- Adjustment of flow rate while running or stopped: from 0 to 100%
- Stroke adjustment lock
- Accuracy of rated flow: $\pm 2\%$ in the range of 10% to 100%
- Max. suction lift: up to 4 m water
- High vacuum suction lift option: 9 m water (consult us)
- Maximum suction pressure: 2 bar
- Aluminium housing
- Life lubrication
- Options: double diaphragm, VARIPULSE[®] controller for automatic adjustment and control of flow rate, stroke counter, electronic servomotor
- Homogeneous or heterogeneous multiplexing capabilities

Electrical characteristics of motors

General characteristics:

- Power supply:
 - 230/400 V - 50/60 Hz 3-phase
 - 230 V - 50 or 60 Hz - single-phase
 - 115 V - 50 or 60 Hz - single-phase
- Degree of protection: IP55, tropicalized
- Insulation: class F
- In compliance with European and international standards
- **Vertical** motor mounting, F130 flange, shaft end 14x30:
 - standard on GM 400 and GM 500
 - option on GM 90 to GM 330
- **Horizontal** motor mounting, F130 flange, shaft end 14x30:
 - standard on all multiplex models
 - option on GM 2 to GM 500 simplex

Accessories

- The Serie GTM M pumps are supplied with the accessories described in the opposite chart (except for 316L S.S. version)
- Available on request: pulsation dampeners, safety or back pressure valves, consult us.



Construction of liquid ends

Liquid end components / Versions	Polypropylene (PP)	PVDF	S. Steel (316L)
GM 2 to GM 50 versions			
Liquid end body	PP	PVDF	316L
Valve body	PVC	PVDF	316L
Seat	Polyprel	PTFE	316L
Balls	Ceramic	Ceramic	316L
Connections	PVC/PVDF	PVDF/PVC	316L
Diaphragm	PTFE/PVDF*	PTFE/PVDF	PTFE/316L
Seals	Viton	Viton	Viton
GM 90 to GM 500 versions			
Liquid end body	PP	PVDF	316L
Valve body	PVDF	PVDF	316L
Seat	PE	PVDF	316L
Balls	Glass	C��ric	316L
Connections	PVC	PVDF	316L
Diaphragm	PTFE/PP	PTFE/PVDF	PTFE/316L
Seals	Viton	FEP	Viton

* except on GM 2 to GM 10 = PTFE/PVC

Accessories

For PP, PVDF versions:

- GM 2 to GM 50 versions: pump supplied with 1 injection nozzle, 1 foot valve + weight and one 6 m flexible polyethylene hose,
- GM 90 to GM 500 versions: accessories available on request.

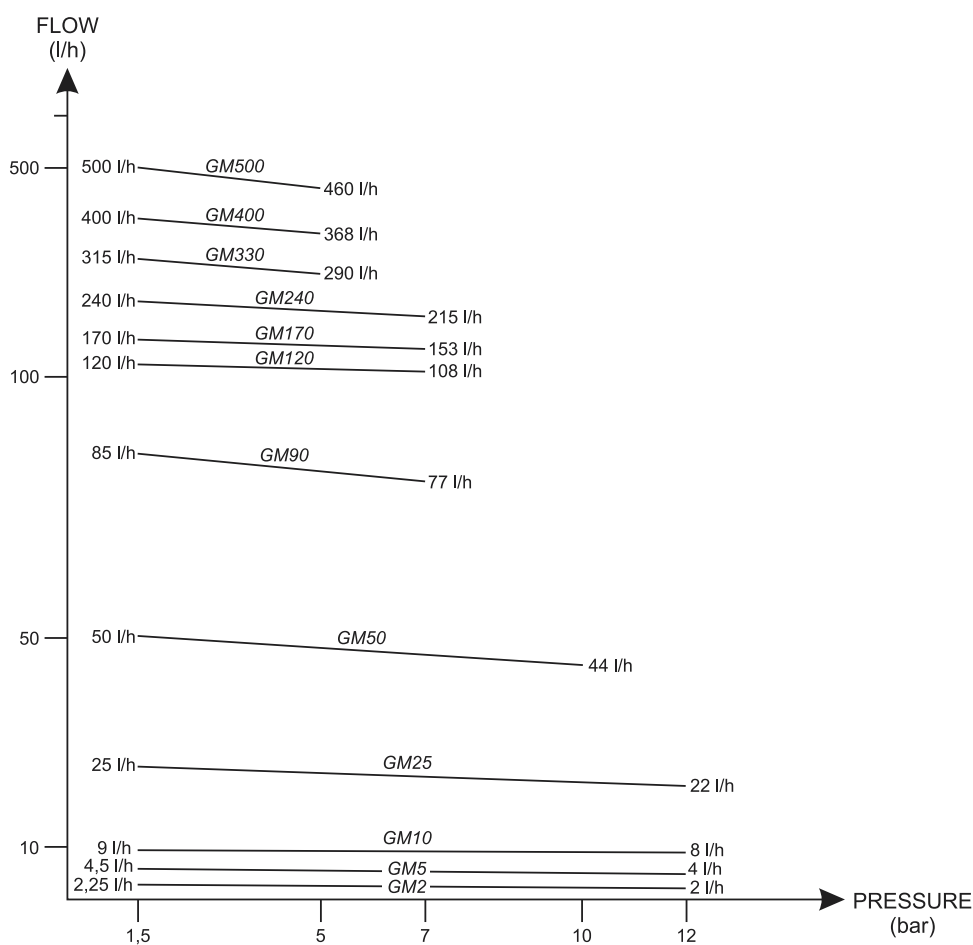
Performances

Type	Flow max (l/h) ⁽¹⁾ at 1.5 bar	Pressure max (bar)	Stroke lenght (mm)	Stroke speed (spm) ⁽¹⁾	Motor speed (rpm) ⁽¹⁾	Motor power (W)	
						3 ph.	1 ph.
GM 2	2.25	12	4	36	1500	90	180
GM 5	4.5	12	4	72	1500	90	180
GM 10	9	12	4	144	1500	90	180
GM 25	25	12	6	72	1500	90	180
GM 50	50	10	6	144	1500	90	180
GM 90	85	7	6	72	1500	90	180
GM 120	120	7	8	72	1500	90	180
GM 170	170	7	6	144	1500	90	180
GM 240	240	7	8	144	1500	120	180
GM 330	315	5	8	144	1500	120	180
GM 400	400	5	10	144	1500	250	180
GM 500	500	5	10	180 ⁽²⁾	1500	250	250

⁽¹⁾ Values with motor at 50 Hz (multiply by 1.2 for 60 Hz)

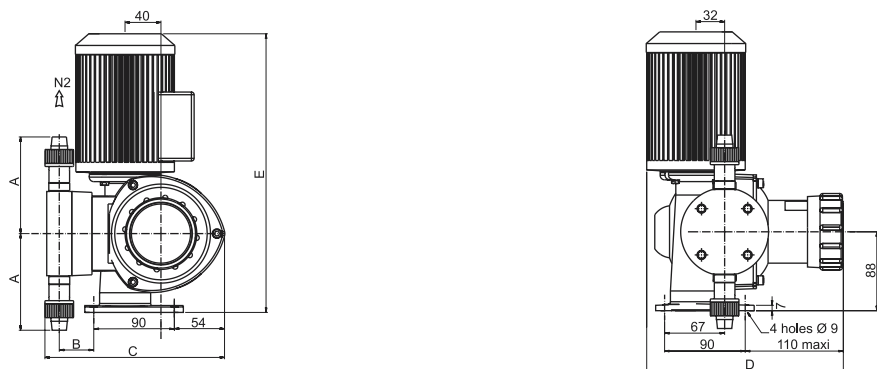
⁽²⁾ Not use at 60 Hz for 180 spm/mn.

Performances curves

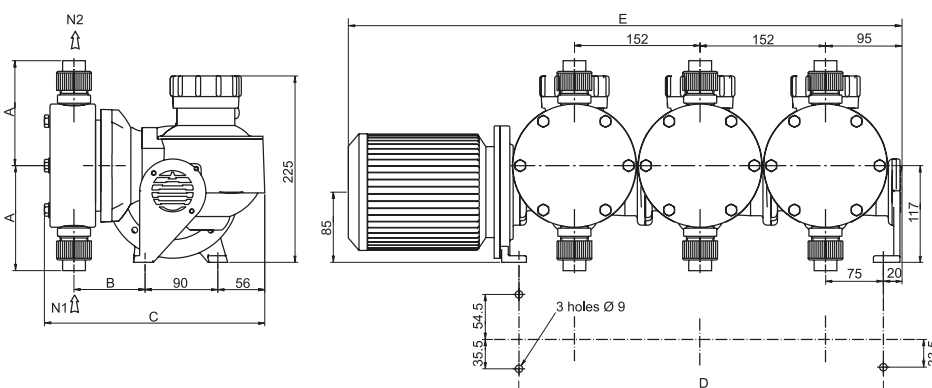


Dimensions and connections

- Simplex version as a standard: vertical motor (**SX**)



- Multiplex version as a standard: horizontal motor (**DX - TX**)
- Simplex version as an option: horizontal motor (**HX**)



	Versions	Connect.	GM 2 to GM 50 size (mm)					Connect.	GM 90 to GM 330 size (mm)					Connect.	GM 400 and GM 500 size (mm)				
			A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
Simplex SX vertical motor	PP	T	108	40	200	220	311	Q	127	82	272	220	312	Q	127	82	272	245	425
	PVDF	T	108	40	200	220	311	N	131	82	272	220	312	N	131	82	272	245	425
	Inox	N	102	40	200	220	311	N	131	82	272	220	312	N	131	82	272	245	425
Simplex HX horizontal motor	PP	T	108	39	205	142	395	Q	127	80	277	142	395	Q	127	80	277	142	395
	PVDF	T	108	39	205	142	395	N	131	80	277	142	395	N	131	80	277	142	395
	Inox	N	102	39	205	142	395	N	131	80	277	142	395	N	131	80	277	142	395
Duplex DX horizontal motor	PP	T	108	39	205	294	547	Q	127	80	277	294	547	Q	127	80	277	294	547
	PVDF	T	108	39	205	294	547	N	131	80	277	294	547	N	131	80	277	294	547
	Inox	N	102	39	205	294	547	N	131	80	277	294	547	N	131	80	277	294	547
Triplex TX horizontal motor	PP	T	108	39	205	445	698	Q	127	80	277	445	698	Q	127	80	277	445	698
	PVDF	T	108	39	205	445	698	N	131	80	277	445	698	N	131	80	277	445	698
	Inox	N	102	39	205	445	698	N	131	80	277	445	698	N	131	80	277	445	698

Connections :

T = Hose 6x8, 6x12 and G 1/2" male

N = Threaded socked 1/2" BSP female

Q = Female socket for DN15 rigid tubing (PVC)

Weight

Versions	Simplex	Duplex	Triplex
Net Weight (kg) ⁽¹⁾ with plastic liquid end	7	12	19
with S.Steel liquid end	13	24	33
Gross Weight (kg) ⁽¹⁾ with plastic liquid end	9	17	24
with S.Steel liquid end	15	29	38
Packing (LxH)	400x300x490	800x600x620	800x600x620

⁽¹⁾Approximately

GTMM pumps servomotor

These electronic servomotors are intended to replace the manual stroke control by an automatic system.

- Supply: 230 V single-phase (option: 110 V single-phase)
- Frequency: 50 / 60 Hz
- Protection: IP65
- Visual position indicator
- Emergency manual control
- Control signal: 0-20 mA or 4-20 mA (option: 0-10 V or 2-10 V)
- Recopy potentiometer: 0-20 mA or 4-20 mA (option: 0-10 V or 2-10 V)

(See data-sheet ref. 160 7001 201N)



Heterogeneous GTMM Triplex dosing pump with an electronic servomotor

VARIPULSE[®] controller ⁽¹⁾

A simple unit, very economical and reliable, with multiple functions:

- Control by external pulse
- Proportional control by analogue input (pulse control) F (T)
- Proportional control by analogue input (speed control)
- Manual control of stroke speed
- Supply: 1 phase: 200 V (-10%) to 240 V (+10%)
- Frequency: 50 / 60 Hz
- Power from 0.09 to 0.25 kW
- Protection: IP55

⁽¹⁾ Only suitable for use on GTMM models with base stroke speed of 144 spm

(see data-sheet ref. 160 7002 201N)



VARIPULSE[®] controller

Stroke counter by magnetic probe detector

- Supply: from 10 to 30 VCC
- Residual undulation: < 10%
- Permanent output current: 300 mA maximum
- CEM according to EN 60 947-5-2
- Protection: IP67
- Output: PNP or NPN
- Cable length: 2 m
- Wires section: 0.25 mm²



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