Dosing pump series G™ A

Flow rate up to 170 l/h • Pressure up to 12 bar
• Mechanically actuated diaphragm • Variable eccentric drive mechanism

DOSAPRO

Main technical characteristics

- Flow rate up to 170 l/h
- Pressure up to 12 bar
- Mechanically actuated PTFE diaphragm
- Stroke adjustment by variable eccentric minimising pulsation and shock
- Maximum temperature of pumped liquid: 40 °C
- Adjustment of flow rate while running or stopped: from 0 to 100%
- Accuracy: ± 2% of rated flow from 10 to 100% stroke
- Suction lift: up to 4 m water
  2.5 m suction lift for GA 90 to GA 170 models
- High vacuum suction lift option: 9 m water (consult us)
- Maximum suction pressure: 2 bar
- Housing in corrosion resistant glass fibre reinforced by thermoplastical material
- Life lubrication
- Options: double diaphragm, VARIPULSE® or frequency variation
- Integrable into an EH&S protection enclosure

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Construction of liquid ends

Liquid end / Versions	Polypropylene (PP)	PVDF	S. Steel (316L)	High Viscosity (HV)
GA 2 to GA 45 Versions				
Liquid end body	PP	PVDF	316L	PP
Valve body	PVDF	PVDF	316L	PP
Seats	Aflas	PTFE	316L	PTFE
Balls	Ceramic	Ceramic	316L	316L
Connections	PVDF/PP	PVDF/PP	316L	PP
Diaphragm	PTFE/PVDF*	PTFE/PVDF	PTFE/316L	PTFE/PVC
Seals	Viton	Viton	Viton	-
GA 90 to GA 170 Versions				
Liquid end body	PP	PVDF	316L	PP
Valve body	PP	PVDF	316L	PP
Seats	PTFE	PTFE	316L	PTFE
Balls	Ceramic	Ceramic	316L	316L
Connections	PP/PVC	PVDF/PVC	316L	PP
Diaphragm	PTFE	PTFE	PTFE	PTFE
Seals	-	-	Viton	-

* Except on GA 2 to GA 10 = PTFE/PVC

Other liquid end construction:
- PVC version (GA 90 to GA 170 only): PVC construction with ceramic balls
- Fluorinated liquid version: PVDF construction with PTFE balls
- Slurries version: 316L S.S. construction with 440C balls
- PP/316L mixed version: PP construction with 316L S.S. balls

Electrical characteristics of motors

General characteristics:

- Power supply:
  - 230/400 V - 50/60 Hz - three-phase
  - 230 V - 50 or 60 Hz - single-phase
  - 115 V - 50 or 60 Hz - single-phase
- Degree of protection: IP 55, tropicalized, insulation: class F
- In compliance with European and international standards

Options:

- Motor mounting F130, shaft-end 14x30
- Explosion-proof motors: consult us (only out of EEC, pumps do not comply with ATEX directive)

Accessories

- The Series G™ A pumps are supplied with the accessories described in the following chart (except for 316L S.S. and slurries versions)
- Available on request: 3 or 4 Function valves, bleed 4 Function valves, pulsation dampeners, safety and back pressure valves, consult us.

ACCESSORIES

For PP, PVDF, PVC, Fluorinated Liquids and Mixed liquid ends:
- GA 2 to GA 45 versions: pumps supplied with 1 injection nozzle, 1 foot valve + weight, 1 PE flexible hose (6 m) 6x8, 1 reinforced PVC hose (6 m) 6x12 and 1 gas connection 1/2" male.
- GA 90 to GA 170 versions: accessories available on request.

For High Viscosity liquid end:
- GA 2 to GA 45 versions: pumps supplied with: Suct. = 2 m hose 15x23 + 1/2" NPT male - Disch. = 3 m hose 0.500" OD, 1 injection nozzle.
- GA 90 to GA 170 versions: pumps supplied with: Suct. = 2 m hose 15x23 + 1/2" NPT male - Disch. = Threaded socket 1/2" NPT male.

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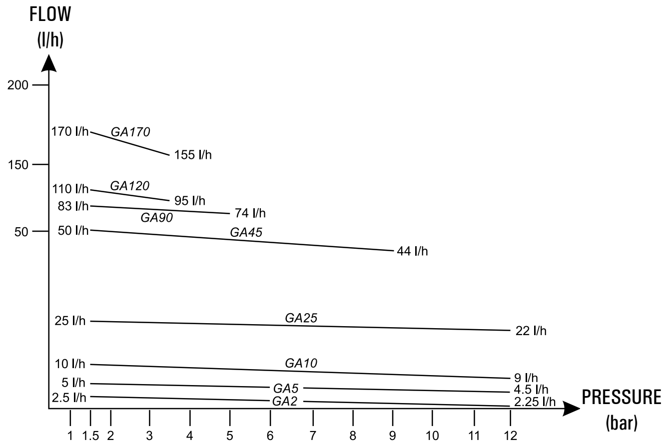
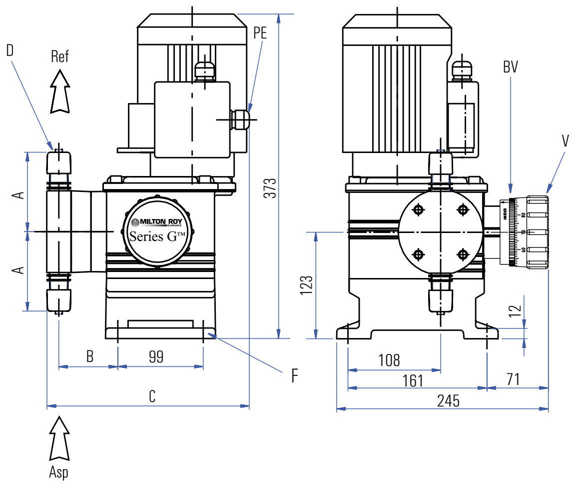
Performances

Type	Flow max. (l/h) (1)(2)	Pressure max. (bar)	Stroke length (mm)	Stroke speed (spm) (2)	Motor speed (rpm)(2)	Motor power (W) 1-ph	Motor power (W) 3-ph
GA 2	2.5	12	4	36	1500	180	90
GA 5	5	12	4	72	3000	180	120
GA 10	10	12	4	144	3000	180	120
GA 25	25	12	6	72	3000	180	120
GA 45	50	10	6	144	3000	180	120
GA 90	83	5	6	72	3000	180	120
GA 120	110	3.5	4	144	3000	180	120
GA 170	170	3.5	6	144	3000	180	120

(1) Maximum flow at 1.5 bar
(2) Values with motor at 50 Hz (multiply by 1.2 for 60 Hz)



Dimensions and connections



Asp : Suction
Ref : Discharge
V : Stroke adjustment
BV : Stroke adjustment locking
PE : Motor gland
F : 4 holes ø 9
D : Connections

Types	Dimensions	Versions	PP/PVDF/PVC/Mixed		316L	HV
	(mm)	Connections	T		N	H
GA 2 GA 5 GA 10	A		91		102	105
	B		68		68	83
	C		234		236	253
GA 25 GA 45	A		91		102	108
	B		69		68	73
	C		235		236	243
	(mm)	Connections	P	Q	N	H
GA 90 GA 120 GA 170	A		109	143	123	110
	B		98	98	98	98
	C		266	270	273	266

Connections:
T = PE flexible hose 6x8, reinforced PVC hose 6x12 and connections 1/2" male
N = Threaded socket 1/2" BSP female
H = GA 2 to GA 45: Suct. = vinyl hose 15x23 - Disch. = PE tubing 9x12
H = GA 90 to GA 170: Suct. = vinyl hose 15x23 - Disch. = 1/2" male
P = Threaded socket 1/2" NPT male
Q = Female socket for DN15 rigid tubing (PVC)

Weight and packing

Versions	Net weight (1) (kg)	Gross weight (1) (kg)	Packing (2) (L x W x H - mm)
GA 2 to GA 170 (PP)	7	9	400 x 300 x 490
GA 2 to GA 45 (316L)	8	10	400 x 300 x 490
GA 120 to GA 170 (316L)	12	14	400 x 300 x 490

(1) Approximately - (2) Standard cardboard packing

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