



MILTON ROY

The Inventor of Metering Pump

Direct Drive
Connection



G SERIES

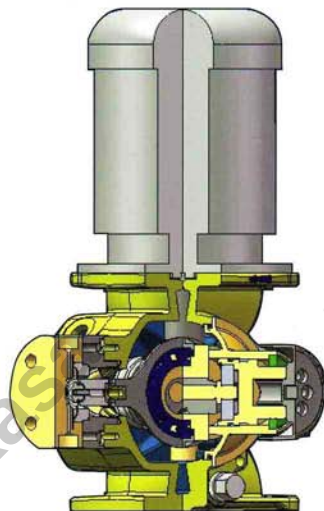


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G SERIES

The G Series of metering pumps offer traditional Milton Roy reliability with outstanding value for applications up to 175 psi (12 Bar).

Milton Roy has combined its heavy-duty industrial drive technology with state of the art design and manufacturing processes in creating the G Series metering pump. This family of Mechanically Actuated Diaphragm metering pumps is designed for durability and cost effectiveness.



MATERIAL OF CONSTRUCTION

• GM0002-GM0050

Liquid End	Liquid End Body	Valve Body	Seat	Ball	Diaphragm	Seal	Connection
PVC	PVC	PVDF	PVDF	Ceramic	PTFE	Viton	PVC
PVDF	PVDF	PVDF	PVDF	Ceramic	PTFE	PTFE	PVDF
316 SS	316 SS	316 SS	316 SS	316 SS	PTFE	Viton	316 SS

• GM0090-GM0500

Liquid End	Liquid End Body	Valve Body	Seat	Ball	Diaphragm	Seal	Connection
PVC	PVC	PVC	PVC	Glass	PTFE	Viton	PVC
PVDF	PVDF	PVDF	PVDF	Ceramic	PTFE	PTFE	PVDF
316 SS	316 SS	316 SS	316 SS	316 SS	PTFE	Viton	316 SS

• GB0080-GB1500

Liquid End	Liquid End Body	Valve Body	Seat	Ball	Diaphragm	Seal	Connection
PVC	PVC	PVC	PVC	Ceramic	PTFE	Viton	PVC
PVDF	PVDF	PVDF	PVDF	Ceramic	PTFE	PTFE	PVDF
316 SS	316 SS	316 SS	316 SS	316 SS	PTFE	Viton/PTFE	316 SS

• GB1800

Liquid End	Liquid End Body	Valve Body	Valve Stopper	Ball	Diaphragm	Seal	Connection
PVC	PVC	PVC/PVC	PVC/PVC	hastelloy C	PTFE	Viton	PVC
PVDF	PVDF	PVDF/PVDF	PVDF/PVDF	hastelloy C	PTFE	PTFE	PVDF
316 SS	316 SS	316 SS/316 SS	316 SS/316 SS	hastelloy C	PTFE	Viton	316 SS

ACCESSORIES

For GM0002-GM0050 (PVC & PVDF liquid end), pumps are supplied with 1 injection nozzle, 1 foot valve + 1 weight and 1 reinforced PVC hose (6m)

STANDARD MOTOR DATA

Supply : 380V, 50 Hz, 3 phase or 220V, 50Hz, 1 phase

Enclosure : IP55

Insulation : Class F

Note : IEC/Nema explosion proof motor and other non-standard



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PRODUCT CODE

Series Code Capacity Liquid End Connection Motor Capacity Control Base Option

Series	Code		Description					Code		Description						
	GM		GM Series MAD Metering Pump					GB		GB Series MAD Metering Pump						
Capacity	Code	LE	LPH@P _{max}		SPM		Pmax	Power	Code	LE	LPH@P _{max}		SPM		Pmax	Power
		Type	50HZ	60HZ	50HZ	60HZ	bar			Type	50HZ	60HZ	50HZ	60HZ	bar	
	GM0002		2.25	2.7	36	43			GB0080		82	98	36	43		
	GM0005	1#	4.5	5.4	72	86	12		GB0180		167	200	72	86		
	GM0010		9	10.5	144	173			GB0250	40#	237	284	102	120	10	
	GM0025		25	30	72	86			GB0350		334	400	144	173		
	GM0050		50	60	144	173	10	250W ⁽¹⁾	GB0450		416	455 ⁽¹⁾	180	198		
	GM0090		85	100	72	86			GB0500	60#	464	556	144	173	7	550W 750W ⁽¹⁾
	GM0120		115	140	72	86	7		GB0600		583	640 ⁽¹⁾	180	198		
	GM0170		170	200	144	173			GB0700		656	787	102	120		
	GM0240		235	280	144	173			GB1000		946	1136	144	173	3.5	
	GM0330		315	370	144	173			GB1200	80#	1200	1300 ⁽²⁾	180	198		
	GM0400	4#	400	480	144	173	5	250W 370W ⁽¹⁾	GB1500		1500	1650 ⁽²⁾	180	198		
	GM0500		500	520	180	187			GB1800		1800	1730 ⁽²⁾	206	198	3	750W

(1) Used for both constant & variable speed application. Use frequency conversion motor (5-50Hz). (2) The gear worm is different from that of 50Hz.

Liquid End	Code	Description	Code	Description
	P	PVC Liquid End	V	High Viscosity (PVC-LE)
	S	316 Liquid End	K	Slurry (GM0002-0010 N/A; GM0025-0500/316 Material; GB-PVC)
	T	PVDF Liquid End	M	Mix (PVC-LE, GM only)
	F	PVC Liquid End, used for Sodium Hypochlorite	Z	Special material liquid end (Consult with factory. Describe in Purchase Order.)

* GM0002-0050, EPDM O-ring; GM0090-0500, PTFE encapsulated O-ring.

Connection	Code	Description	GM0002-0010	GM0025-0050	GM0090-0500	GB0080-0450	GB0500-1200	GB1500-1800
	P	NPT	1/4" M 1/4" M 1/2" F 1/2" M 1/2" M 1/2" F 1/2" F 1/2" F 1/2" F 1" F 1" F 1" M 1-1/2" F 1-1/2" F 1-1/2" M					
	Q	Pipe	DN15	DN15	DN15	DN15	DN15	DN15
	R	Hose Pipe 6X12	6X12 6X8	6X12 6X12				
	H	GM Hose Pipe	15X23	15X23	DN15			
	X	High Viscosity Application	9X12	9X12				
	9	Others, Consult with Factory	Describe in Purchase Order					

Note: Standard configuration is marked in shadow. PVC is the standard material for hose pipe.

(2) The standard material of hose pipe is PVC. Please consult factory for PVDF Pipe.

Motor	Code	Description (GM)	Description (GB)
1	250W,IEC71,1440rpm,3-50-220/380V,IP55/F/TEFC	550W,IEC71,1440rpm,3-50-220/380V,IP55/F/TEFC	
2	1/3hp,NEMA56C,1440rpm,3-50-220/380V,NEMA3/TEFC	1hp,NEMA56C,1440rpm,3-50-220/380V,NEMA3/TEFC	
3	250W,IEC71,1440rpm,3-50-380V,IP55/F/TEFC/Ex-dilBT4	550W,IEC80,1440rpm,3-50-220/380V,IP55/F/TEFC/Ex-dilBT4	
4	370W,IEC71,1440rpm,3-50-220/380V,IP55/F/TEFC	750W,IEC80,1440rpm,3-50-220/380V,IP55/F/TEFC	
5	*****	750W,IEC80,1440rpm,3-50-220/380V,IP55/F/TEFC/Ex-dilBT4	
6	250W,IEC71,4P,3-50-200/400,3-60-230/460,IP55/F/TEFC	550W,IEC71,4P,3-50-200/400V,3-60-230/460,IP55/F/TEFC	
7	370W,IEC71,4P,3-50-220/380,3-60-230/460,IP55/F/TEFC	750W,IEC80,4P,3-50-200/400,3-60-230/460,IP55/F/TEFC	
8	*****	550W,IEC80,1440rpm,3-50-220/380V,IP55/F/TEFC	
9(1)	370W,IEC71,4P,3-50-220/380V,IP55/F/TEFC/Ex-dilBT4	550W,IEC80,4P,3-50-200/400V,3-60-230/460,IP55/F/TEFC/Ex-dilBT4	
9(2)	*****	750W,IEC80,4P,3-50-200/400,3-60-230/460,IP55/F/TEFC/Ex-dilBT4	
9(3)	250W,IEC71,4P,3-50-380V,3-60-230/460,IP55/F/TEFC/Ex-dilBT4	*****	
9(4)	370W,IEC71,4P,3-50-220/380V,3-60-230/460,IP55/F/TEFC/Ex-dilBT4	*****	
9(5)	Without motor, but with IEC71 connection	Without motor, but with IEC71 connection	
9(6)	370W,IEC71,4P,1-50-220V,IP55/F/TEFC	*****	
9(7)	370W,IEC71,4P,1-60-230V,IP55/F/TEFC	*****	
9(8)	*****	Without motor, but with IEC80 connection	
9	Others: Please consult factory	Others: Please consult factory	

Single-ph motor can't be used with motor on/off controller.

Capacity Control	Code	Description (GM)	Description (GB)	Remark
	M	Manual Adjustment	Manual Adjustment	Standard Configuration
	N	ECC, 4-20mA, 230V AC-1Ph	ECC, 4-20mA, 230V AC-1Ph	Electronic stroke control
	E	-----	ECC, 4-20mA 230VAC-1Ph, Ex. Proof	-----
	F	Variable frequency control, 4-20mA	Variable frequency control, 4-20mA	Select variable speed motor
	T	Varipulse and ECC	-----	Used for all GM pumps
	P	Varipulse (1ph-50Hz-220V)	-----	Used for all GM pumps

Base Plate	Code	Description (GM)	Description (GB)	Remark
	N	N/A	N/A	Standard Configuration
	Y	YES	YES	-----

Option	Code	Description (GM)	Description (GB)	Remark
	N	N/A	N/A	Standard Configuration
	A	Stroke Counter	Stroke Counter	-----
	B	Double Diaphragm With Pressure Gauge	Double Diaphragm With Pressure Gauge	Include pressure gauge
	C ^(H)	Double Diaphragm With Pressure Switch	Double Diaphragm With Pressure Switch	Include Non-exproof Pressure Switch
	D ^(H)	Double Diaphragm With Pressure Gauge & Switch	Double Diaphragm With Pressure Switch	-----
	X	Others, Please Consult Factory	Others, Consult with factory.	-----

(3) Base plate included for code C and D



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- Mechanically actuated PTFE diaphragm
- Flow rates up to 1800 LPH, pressure up to 12 bar
- Adjustment of flowrate from 0% ~ 100% while running or stopped
- Accuracy +/-2% of 100% rated flow
- Maximum temperature of pumped fluid : 40 °C
- Maximum suction lift up to 3 m water, max. suction pressure 2 bar

Features & Benefits

- Mechanical actuated diaphragm design eliminates contour plates
- Variable eccentric drive mechanism for smooth sinusoidal flow
- Rugged construction designed to withstand tough environments
- Oil bath lubrication for all of drive components
- Lockable micrometer stroke, adjustment can be adjusted while pump is running or stopped
- PVC, PVDF & 316SS liquid end material
- Self- cleaning suction/discharge check valve
- Simplified service-easy access to the main components, large opening and few assemblies

Automatic Capacity Control Options

- Electronic Capacity Control : Automatic stroke adjustment by 4 - 20mA analog signal
Power Supply : 220V, 50/60Hz, 1 phase
- Variable speed : Automatic speed variation by 4-20mA analog signal
Power Supply : 200V - 240V, 50/60Hz, 1 phase or 380 - 480V, 50/60Hz, 3 phase
- Varipulse Control : Proportional control by 4-20mA analog signal /pulse or manual selection
Power Supply : 220V - 50/60Hz, 1 phase (3 phase optional)

Other Options

- Double diaphragm
- Stroke Counter
- Material for special applications



GM pump with electronic capacity control



GM pump with

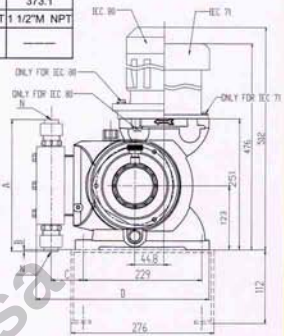
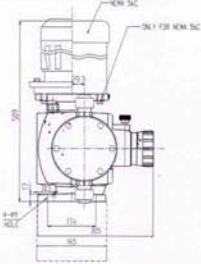


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PUMP OUTLINE DRAWING

Model	GB40(80-450)		GB60(500-600)		GB80(700-1200)		GB80(1500)		GB80(1800)	
	Plastic	Metalic	Plastic	Metalic	Plastic	Metalic	Plastic	Metalic	Plastic	Metalic
A	237	260	286	338	362	414	374	446	420	458
B	5	4	19	46	59	85	64	100	87	102
C	60.3	60.3	71.4	76.2	96.4	100	96.4	100	96.4	100
D	333	333	351.2	348	373.1	373.1	373.1	373.1	373.1	373.1
N	1/2" F NPT	1/2" F NPT	1" F NPT	1" M NPT	1 1/2" F NPT	1 1/2" M NPT	1 1/2" F NPT	1 1/2" M NPT	1 1/2" F NPT	1 1/2" M NPT
	DN15"		DN15"		DN15"					

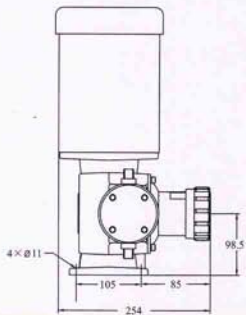
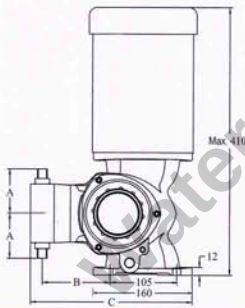
*Optional, available with PVC L/E only



GB Series

L/E Material	GM0002-GM0050				GM0090-GM0500			
	Conn Code	A	B	C	Conn Code	A	B	C
PVC	P	108	116	250	Q	127	159	322
PVDF	P	108			N	131		
316	N	102			N	131		

GM Series



Weight

Pump with motor		Metal LE		Plastic LE	
		Net WT (kgs)	Gross WT (kgs)	Net WT (kgs)	Gross WT (kgs)
GM	2-10	22	25	19	22
	25-50	23	26	20	23
	90-500	25	28	21	24
	Add Ecc			+5	
	without 0.25 motor			-6	
	without 0.37 motor			-7	
GB	80-450	42	47	39	43
	500-1200	45	50	41	45
	1500-1800	48	53	44	48
	without 0.55 motor			-8	
	without 0.75 motor			-10	

Shipping Dimensions

GM	
GB	



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G SERIES, DEPENDABLE AND VERSATILE

The G Series of pumps has proven its exceptional value over years of solid performance in a wide range of applications and industries. Water treatment chemicals, process additives, acids, out-gassing fluids, slurries, and many more applications are all handled with ease by this robust metering pump design. Your local representative can assist you in applying the G Series metering pump to your process.



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ACCESSORIES

Pulsation Dampeners

Minimize pressure and flow surges in the pump discharge. When applied to pump inlet, more favorable NPSH conditions result.



Calibration Columns

Allow periodic verification of pump performance during routine checks or after system maintenance.



Safety Valves

Protect pump and piping from overpressure.

Back Pressure Valves

Provide smooth, artificial pressure in pump discharge line for atmospheric or low



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