

# Metering Pump Series GM/GB

## Main Technical Characteristics

- Flowrate up to 1800L/H
- Pressure up to 12 bar
- Suction lift: up to 3 m water
- Maximum suction pressure: 2 bar
- Accuracy:  $\pm 2\%$  of rated flow from 10% to 100% stroke
- Maximum temperature of pumped liquid: 40°C

## Features & Benefits

### Liquid End

- Mechanical actuated diaphragm design
- Eliminate contour plates, easy for material pass
- PVC, PVDF & 316SS liquid end material
- High viscosity, slurry application
- Self-cleaning suction/discharge check valve

### Drive End

- Variable eccentric drive mechanism for smooth sinusoidal flow
- Rugged construction designed to withstand tough environments
- Hard-wearing ball bearings to make pump work more stably
- Oil bath lubrication for all of drive components
- Lockable micrometer stroke, adjustment can be adjusted while pump is running or stopped



## Automatic Capacity Control Options

**Electrical capacity controller: Accept external control signal to adjust the stroke length**

- Power supply: 220V-50Hz, single phase
- Input signal: 4-20mA analog signal
- Output signal: 4-20mA/1-5V analog signal for record display and control system

**Varipulse® controller: ON/OFF control the three phase motor to adjust the flowrate**

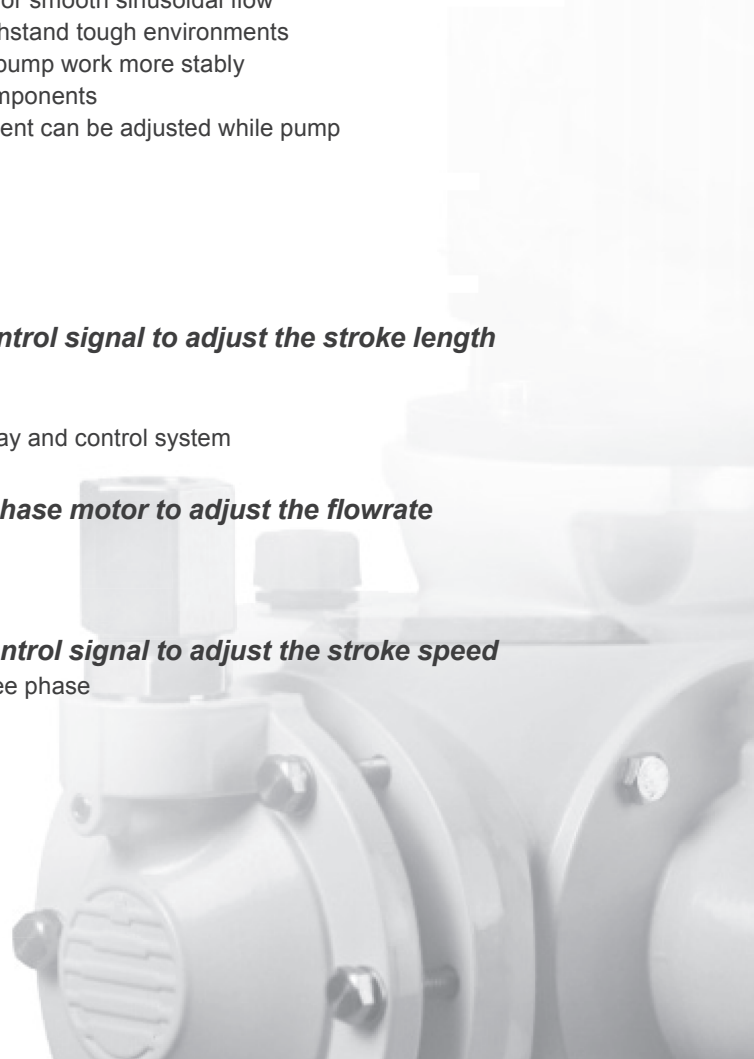
- Power supply: 200-240V/50/60Hz, single phase
- Input signal: 4-20mA analog signal / pulse signal / manual

**Variable frequency controller: Accept external control signal to adjust the stroke speed**

- Power supply: 220V-50Hz, single phase / 380V-50Hz, three phase
- Input signal: 4-20mA analog signal

## Applications

Municipal, industrial water and wastewater, swimming pools and other water treatment process



# World's Leading Metering Pump Manufacturer

## Options

- Double diaphragm
- Double diaphragm with pressure gauge & switch
- Stroke counter transducer  
PNP output / NPN output / relay output



GM with E-STROKE  
electrical capacity  
controller

## Material of liquid end

GM0002~GM0050

| Liquid end | Head  | Valve body | Valve seat | Ball    | Diaphragm | Seal  | Connectors |
|------------|-------|------------|------------|---------|-----------|-------|------------|
| PVC        | PVC   | PVDF       | PVDF       | Ceramis | PTFE      | Viton | PVC        |
| PVDF       | PVDF  | PVDF       | PVDF       | Ceramis | PTFE      | PTFE  | PVDF       |
| 316SS      | 316SS | 316SS      | 316SS      | 316SS   | PTFE      | Viton | 316SS      |

GM0090~GM0500

| Liquid end | Head  | Valve body | Valve seat | Ball    | Diaphragm | Seal  | Connectors |
|------------|-------|------------|------------|---------|-----------|-------|------------|
| PVC        | PVC   | PVC        | PVC        | Glass   | PTFE      | Viton | PVC        |
| PVDF       | PVDF  | PVDF       | PVDF       | Ceramis | PTFE      | PTFE  | PVDF       |
| 316SS      | 316SS | 316SS      | 316SS      | 316SS   | PTFE      | Viton | 316SS      |

GB0080~GB1500

| Liquid end | Head  | Valve body | Valve seat | Ball    | Diaphragm | Seal  | Connectors |
|------------|-------|------------|------------|---------|-----------|-------|------------|
| PVC        | PVC   | PVC        | PVC        | Ceramis | PTFE      | Viton | PVC        |
| PVDF       | PVDF  | PVDF       | PVDF       | Ceramis | PTFE      | PTFE  | PVDF       |
| 316SS      | 316SS | 316SS      | 316SS      | 316SS   | PTFE      | Viton | 316SS      |

GB1800

| Liquid end | Head  | Valve body | Valve plate | Spring             | Diaphragm | Seal  | Connectors |
|------------|-------|------------|-------------|--------------------|-----------|-------|------------|
| PVC        | PVC   | PVC        | PVC         | NS333; Hastelloy C | PTFE      | Viton | PVC        |
| PVDF       | PVDF  | PVDF       | PVDF        | NS333; Hastelloy C | PTFE      | PTFE  | PVDF       |
| 316SS      | 316SS | 316SS      | 316SS       | NS333; Hastelloy C | PTFE      | Viton | 316SS      |

## Accessories

- System accessories: filter, calibration column, pulsation dampener, safety valve and back pressure valve
- Safety valve is the necessary option.
- GM002~GM0050 PVC/PVDF liquid end, pumps supplied with injection nozzle, foot valve, 6m hose, except for viscosity liquid end)

## Standard motor characteristics

- Power supply: 380V-50Hz, three phase/220V-50Hz, single phase
- Enclosure of protection: IP55
- Insulation: class F
- Other motor options: Explosion proof motor, 60Hz motor
- All motors comply with the International Electrotechnical Association IEC standard or the National Electrical Commission NEC standards

# G SERIES PRODUCT CODE SELECTION

Code      Series      Capacity      Liquid End      Connection      Motor      Capacity Control      Base Plate      Option

| Series | Code | Description                 |
|--------|------|-----------------------------|
|        | GM   | GM Series MAD Metering Pump |
|        | GB   | GB Series MAD Metering Pump |

| Capacity              | Code                  | LE Type | LPH@Pmax | SPM | Pmax (bar) | Motor Power           |                                 |
|-----------------------|-----------------------|---------|----------|-----|------------|-----------------------|---------------------------------|
|                       | GM0002                | 1#      | 2.25     | 36  | 12         | 0.25kW <sup>(1)</sup> |                                 |
|                       | GM0005                |         | 4.5      | 72  |            |                       |                                 |
|                       | GM0010                |         | 9        | 144 |            |                       |                                 |
|                       | GM0025                | 2#      | 25       | 72  | 10         |                       |                                 |
|                       | GM0050                |         | 50       | 144 |            |                       |                                 |
|                       | GM0090                |         | 85       | 72  |            |                       |                                 |
|                       | GM0120                | 3#      | 115      | 72  | 7          |                       |                                 |
|                       | GM0170                |         | 170      | 144 |            |                       |                                 |
|                       | GM0240                |         | 235      | 144 |            |                       |                                 |
|                       | GM0330                | 4#      | 315      | 144 | 5          | 0.25kW<br>0.37kW(1)   |                                 |
|                       | GM0400                |         | 400      | 144 |            |                       |                                 |
|                       | GM0500 <sup>(2)</sup> |         | 500      | 180 |            |                       |                                 |
|                       |                       | GB0080  | 40#      | 82  | 36         | 10                    | 0.55kW<br>0.75kW <sup>(1)</sup> |
|                       |                       | GB0180  |          | 167 | 72         |                       |                                 |
|                       |                       | GB0250  |          | 237 | 102        |                       |                                 |
|                       |                       | GB0350  | 60#      | 334 | 144        | 7                     |                                 |
| GB0450 <sup>(2)</sup> |                       | 416     |          | 180 |            |                       |                                 |
| GB0500                |                       | 464     |          | 144 |            |                       |                                 |
| GB0600 <sup>(2)</sup> |                       | 80#     | 583      | 180 | 3.5        |                       |                                 |
| GB0700                |                       |         | 656      | 102 |            |                       |                                 |
| GB1000                |                       |         | 946      | 144 |            |                       |                                 |
| GB1200 <sup>(2)</sup> |                       | 3       | 1200     | 180 | 0.75kW     |                       |                                 |
| GB1500 <sup>(2)</sup> | 1500                  |         | 180      |     |            |                       |                                 |
| GB1800 <sup>(2)</sup> |                       | 1800    | 206      |     |            |                       |                                 |

(1) The power could match both constant & variable speed application, but variable speed motor is not included as default configuration.  
 (2) Do not use with 60Hz motors.

| Liquid End | Code | Description   |
|------------|------|---|
|            | P    | PVC Liquid End  |
|            | S    | 316 Liquid End  |
|            | T    | PVDF Liquid End   |
|            | B    | Black PP liquid end. Use for GM with sunproof outdoors.   |
|            | V    | High Viscidity (PVC LE with spring loaded in check valves, ball/seat in 316SS)                        |
|            | K    | Slurry(GM2#/3#/4#: 316SS LE; GB: PVC LE)  |
|            | M    | Mix(GM:PVC LE)  |
|            | F    | PVC Liquid End, used for Sodium Hypochlorite, acid, alkali<br><br>(Only available for GB series)      |
|            | Z    | Special material liquid end. (Consult with factory, and describe the requirements in purchase order.) |

| Connection | Code             | Description  | GM0002-0050  |         |       |             | GM0090-0500 |         |             |         | GB0080-0450 |         |         |         |
|------------|------------------|--|--------------|---------|-------|-------------|-------------|---------|-------------|---------|-------------|---------|---------|---------|
|            |                  |  | PVC          | PVDF    | PP    | 316         | PVC         | PVDF    | PP          | 316     | PVC         | PVDF    | 316     |         |
|            |                  | Suction(S)/Discharge(D)  | S/D          | S/D     | S/D   | S/D         | S/D         | S/D     | S/D         | S/D     | S/D         | S/D     | S/D     |         |
|            | P                | NPT  | 1/4"M        | 1/4"M   | 1/4"M | 1/2"F       | 1/2"F       | 1/2"F   | 1/2"F       | 1/2"F   | 1/2"F       | 1/2"F   | 1/2"F   |         |
|            | Q                | Pipe   | DN15         | ----    | ----  | ----        | DN15        | ----    | ----        | ----    | ----        | ----    | ----    |         |
|            | R                | Hose Pipe 6X12   | 6X12         | 6X12(*) | ----  | ----        | ----        | ----    | ----        | ----    | ----        | ----    | ----    |         |
|            | L <sup>(1)</sup> | PE Pipe  | 3/8"X1/2"(2) |         |       |             | ----        | ----    | ----        | ----    | ----        | ----    | ----    |         |
|            | H                | GM High Viscosity Application  | 15X23        | ----    | ----  | ----        | DN15        | ----    | ----        | ----    | ----        | ----    | ----    |         |
|            | X                | Others, Consult with Factory, and describe the requirements in purchase order. |              |         |       |             |             |         |             |         |             |         |         |         |
|            | Code             | Description  | GB0500-0600  |         |       | GB0700-1200 |             |         | GB1500-1800 |         |             |         |         |         |
|            |                  |  | PVC          | PVDF    | 316   | PVC         | PVDF        | 316     | PVC         | PVDF    | 316         |         |         |         |
|            |                  | Suction(S)/Discharge(D)  | S/D          | S/D     | S/D   | S           | D           | S       | D           | S       | D           | S/D     | S/D     | S/D     |
|            | P                | NPT  | 1"F          | 1"F     | 1"M   | 1-1/2"F     | 1"F         | 1-1/2"F | 1"F         | 1-1/2"M | 1"M         | 1-1/2"F | 1-1/2"F | 1-1/2"M |
|            | X                | Others, Consult with Factory, and describe the requirements in purchase order. |              |         |       |             |             |         |             |         |             |         |         |         |

Note: Standard configuration is bold letter marked in shadow. For V/ K/ M/ F liquid end, connection depend on material LE.

(\*) The standard material of hose pipe is PVC for code R, consult factory for PVDF pipe if required.

(1) The Max. work pressure for PE pipe is 10 bar.

(2) The standard material of pipe is PE for code L, consult factory for PVDF pipe if required.

# G SERIES PRODUCT CODE SELECTION

## Motor

| Code | Description (GM) Nameplate in Chinese                       | Code | Nameplate in English  |
|------|---|------|---|
| 1    | 250W,IEC71,4P,3-50-220/380V,IP55/F/TEFC                     | A    | 250W,IEC71,4P,3-50-220/380V,IP55/F/TEFC                     |
| 2    | Without motor, but NEMA56C connection and standard test.    | 2    | Without motor, but NEMA56C connection and standard test.    |
| 3    | 250W,IEC71,4P,3-50-380V,IP55/F/TEFC/ExdIIBT4                | C    | 250W,IEC71,4P,3-50-380V,IP55/F/TEFC/ExdIIBT4                |
| 4    | 370W,IEC71,4P,3-50-220/380V,IP55/F/TEFC                     | D    | 370W,IEC71,4P,3-50-220/380V,IP55/F/TEFC                     |
| 5    | 250W,IEC71,4P,1-50-220V,IP55/F/TEFC                         | E    | 250W,IEC71,4P,1-50-220V,IP55/F/TEFC                         |
| 6    | 250W,IEC71,4P,3-50-200/400,3-60-230/460,IP55/F/TEFC         | F    | 250W,IEC71,4P,3-50-200/400,3-60-230/460,IP55/F/TEFC         |
| 7    | 370W,IEC71,4P,3-50-200/400,3-60-230/460,IP55/F/TEFC         | G    | 370W,IEC71,4P,3-50-200/400,3-60-230/460,IP55/F/TEFC         |
| 8    | -----   | 8    | -----   |
| 9(1) | 370W,IEC71,4P,3-50-220/380V,IP55/F/TEFC/ExdIIBT4            | H    | 370W,IEC71,4P,3-50-220/380V,IP55/F/TEFC/ExdIIBT4            |
| 9(5) | Without motor, but with IEC71 connection and standard test. | 9(5) | Without motor, but with IEC71 connection and standard test. |
| 9(7) | 370W,IEC71,4P,1-60-230V,IP55/F/TEFC                         | I    | 370W,IEC71,4P,1-60-230V,IP55/F/TEFC                         |
| 9(8) | -----   | 9(8) | -----   |
| 9    | Others, Consult with Factory                                | 9    | Others, Consult with Factory                                |
| Code | Description (GB)Nameplate in Chinese                        | Code | Nameplate in English  |
| 1    | 550W,IEC71,4P,3-50-220/380V,IP55/F/TEFC                     | A    | 550W,IEC71,4P,3-50-220/380V,IP55/F/TEFC                     |
| 2    | Without motor, but NEMA56C connection and standard test.    | 2    | Without motor, but NEMA56C connection and standard test.    |
| 3    | 550W,IEC80,4P,3-50-220/380V,IP55/F/TEFC/ExdIIBT4            | C    | 550W,IEC80,4P,3-50-220/380V,IP55/F/TEFC/ExdIIBT4            |
| 4    | 750W,IEC80,4P,3-50-220/380V,IP55/F/TEFC                     | D    | 750W,IEC80,4P,3-50-220/380V,IP55/F/TEFC                     |
| 5    | 750W,IEC80,4P,3-50-220/380,IP55/F/TEFC/ExdIIBT4             | E    | 750W,IEC80,4P,3-50-220/380,IP55/F/TEFC/ExdIIBT4             |
| 6    | 550W,IEC80,4P,3-50-200/400V,3-60-230/460,IP55/F/TEFC        | F    | 550W,IEC80,4P,3-50-200/400V,3-60-230/460,IP55/F/TEFC        |
| 7    | 750W,IEC80,4P,3-50-200/400V,3-60-230/460,IP55/F/TEFC        | G    | 750W,IEC80,4P,3-50-200/400V,3-60-230/460,IP55/F/TEFC        |
| 8    | 550W,IEC80,4P,3-50-220/380V,IP55/F/TEFC                     | H    | 550W,IEC80,4P,3-50-220/380V,IP55/F/TEFC                     |
| 0    | Without motor, but with IEC71 connection and standard test. | 0    | Without motor, but with IEC71 connection and standard test. |
| 9(8) | Without motor, but with IEC80 connection and standard test. | 9(8) | Without motor, but with IEC80 connection and standard test. |
| 9    | Others, Consult with Factory                                | 9    | Others, Consult with Factory                                |

Note: Single phase motor can't be used with Varipulse® controller.

## Capacity Control

| Code | Description (GM)                                       | Description (GB)  | Remark                 |
|------|--|---|------------------------|
| M    | Manual Adjustment                                      | M Manual Adjustment   | Standard Configuration |
| N    | MRIS E-STROKE, 4-20mA, 220VAC-1Ph                      | N MRIS E-STROKE, 4-20mA, 220VAC-1Ph                                       |                        |
| C    | MRIS E-STROKE, 4-20mA, 220VAC-1Ph(customized color)    | C MRIS E-STROKE, 4-20mA, 220VAC-1Ph(customized color)                     |                        |
| A    | MRIS E-STROKE, 4-20mA, 115VAC-1Ph                      | A MRIS E-STROKE, 4-20mA, 115VAC-1Ph                                       |                        |
| D    | MRIS E-STROKE, 4-20mA, 115VAC-1Ph(customized color)    | D MRIS E-STROKE, 4-20mA, 115VAC-1Ph(customized color)                     |                        |
| U    | MRE STEGMANN, 4-20mA, 220VAC-1Ph                       | W ACC, Waterproof ; 24VDC ; 110V - 230V 1 phase 50/60Hz                   |                        |
| G    | MRE STEGMANN, 4-20mA, 115VAC-1Ph                       | X ACC Ex - proof ; 24VDC ; 110V - 230V 1 phase 50/60Hz                    |                        |
| F*   | Frequency Inverter, 3PH,AC,0.75KW/380V-480V            | I ACC, Waterproof ; 24VDC ; 110V - 230V 1 phase 50/60Hz(customized color) |                        |
| T*   | Varipulse® Controller and E-STROKE ECC <sup>(1)</sup>  | J ACC Ex - proof ; 24VDC ; 110V - 230V 1 phase 50/60Hz(customized color)  |                        |
| P*   | Varipulse® Controller (220VAC-1Ph-50Hz) <sup>(1)</sup> | F* Frequency Inverter,3PH,AC,0.75KW/380V-480V                             |                        |

Note: \* Varipulse controller and Frequency Inverter are not assembled on the pump

## Base Plate

| Code | Description  | Remark                 |
|------|--|------------------------|
| N    | N/A (Select N when double diaphragm with pressure switch option has been ordered)                            | Standard Configuration |
| 1    | N/A (Select N when double diaphragm with pressure switch option has been ordered)-Pump with customized color |                        |
| Y    | YES  |                        |
| 9    | Base plate-Pump with customized color  |                        |

## Option

| Code | Description  | Remark                           |
|------|--|----------------------------------|
| N    | N/A  | Standard Configuration           |
| A    | Stroke Counter transducer  |                                  |
| B    | Double Diaphragm With Pressure Gauge <sup>(1)</sup>                          |                                  |
| C    | Double Diaphragm With Pressure Switch(With Baseplate) <sup>(1)</sup>         |                                  |
| D    | Double Diaphragm With Pressure Gauge & Switch(With baseplate) <sup>(1)</sup> |                                  |
| E    | Double Diaphragm With Pressure Gauge   |                                  |
| F    | Double Diaphragm With Pressure Gauge & Switch(With baseplate) <sup>(1)</sup> |                                  |
| X    | Others, Consult with factory.  | Describe Special Config in Order |

(\*) Code C, D, F has included base plate in the structure, please choose code "N" for the Base Plate in such an application.

(1) Code B or D Pressure Gauge has CMC (China Metrology Certification) Logo With Chinese Characters.

# G SERIES - TECHNICAL

## 1. SPECIFICATION

|                                   |  |
|-----------------------------------|--|
| <b>PUMP TYPE</b>                  | MECHANICAL ACTUATED DIAPHRAGM  |
| <b>LE MATERIAL</b>                | 316SS/PVC/PVDF/PP  |
| <b>ACCURACY</b>                   | ±1.5 % at Rated Flow   |
| <b>TURN DOWN RATIO</b>            | 10:1   |
| <b>TEMPERATURE OF FLUID</b>       | -10°C to 50°C (Metallic Liquid End)<br>10°C to 50°C (Plastic Liquid End) |
| <b>TYPE OF CAPACITY CONTROL</b>   | Manual / Electronic / VSD  |
| <b>CAPACITY ADJUSTMENT DESIGN</b> | Variable Eccentric Type  |

## 2.VISCOSITY CAPABILITIES

### GM SERIES

| 50Hz DRIVER (1500rpm) |                    |                             | 60Hz DRIVER (1750rpm) |                    |                             |
|-----------------------|--------------------|-----------------------------|-----------------------|--------------------|-----------------------------|
| STROKING SPEED (SPM)  | OTHER L/E cp (Max) | HIGH VISCOSITY L/E cp (Max) | STROKING SPEED (SPM)  | OTHER L/E cp (Max) | HIGH VISCOSITY L/E cp (Max) |
| 180                   | 100                | 500                         | —                     | —                  | —                           |
| 144                   | 250                | 1250                        | 173                   | 120                | 600                         |
| 72                    | 700                | 3500                        | 86                    | 600                | 3000                        |
| 36                    | 700                | 3500                        | 43                    | 700                | 3500                        |

### GB SERIES

| 50Hz DRIVER (1500rpm) |                    |                             | 60Hz DRIVER (1750rpm) |                    |                             |
|-----------------------|--------------------|-----------------------------|-----------------------|--------------------|-----------------------------|
| STROKING SPEED (SPM)  | OTHER L/E cp (Max) | HIGH VISCOSITY L/E cp (Max) | STROKING SPEED (SPM)  | OTHER L/E cp (Max) | HIGH VISCOSITY L/E cp (Max) |
| 206                   | 200                | 500                         | —                     | —                  | —                           |
| 180                   | 100                | 500                         | —                     | —                  | —                           |
| 144                   | 220                | 1250                        | 173                   | 120                | 600                         |
| 102                   | 700                | 2500                        | 124                   | 400                | 1600                        |
| 72                    | 1100               | 3500                        | 86                    | 900                | 3000                        |
| 36                    | 2400               | 3500                        | 43                    | 2000               | 3500                        |

## 3. GM/GB STROKING LENGTH

| MODEL                  | STROKING LENGTH |
|------------------------|-----------------|
| GM0002~GM0010          | 4mm             |
| GM0025~GM0090, GM0170  | 6mm             |
| GM0120, GM0240, GM0330 | 8mm             |
| GM0400~GM0500          | 10mm            |
| GB0080~GB1200          | 12mm            |
| GB1500, GB1800         | 15mm            |

## 4.LUBRICATION CHART

| MODEL                         | AMBIENT TEMPERATURE | GEAR OIL CODE        | Recommend Gear Oil      |                          |                  |             |                 | Optional<br>GEAR OIL CODE 2 |
|-------------------------------|---------------------|----------------------|-------------------------|--------------------------|------------------|-------------|-----------------|-----------------------------|
|                               |                     |                      | VISCOSITY               |                          | DENSITY @ 15.6°C | FLASH POINT | VOLUME(L) /PUMP |                             |
|                               |                     |                      | mm <sup>2</sup> /s@40°C | mm <sup>2</sup> /s@100°C | kg/L             | °C          | (L)             |                             |
| GM/GB<br>(Except GB1500/1800) | -5°C~50°C           | Mobilgear 600 XP 220 | 220                     | 19.5                     | 0.89             | 255         | 0.65/GM         | Great Wall L-CKD220         |
|                               | -10°C~-5°C          | Mobilgear 600 XP 68  | 68                      | 9.2                      | 0.89             | 225         | 2.8/GB          | —                           |
| GB1500/1800                   | -5°C~50°C           | Mobilgear 600 XP 460 | 460                     | 29.9                     | 0.89             | 275         | 2.8             | Great Wall L-CKD460         |
|                               | -10°C~-5°C          | Mobil SHC 634        | 440                     | 45.8                     | 0.85             | 250         |                 | Great Wall 4407(460)        |

# G SERIES - TECHNICAL

## 5.MOTOR MOUNT

| Series | Mounting Method     | Motor Flange          |       | Motor Rotation                                 |
|--------|---------------------|-----------------------|-------|--|
| GM     | Direct Coupled (B5) | 0.25kW,0.37kW         | IEC71 | Facing Towards Motor Fan - Clock Wise Rotation |
| GB     |                     | 0.55kW Standard Motor | IEC71 |  |
|        |                     | 0.55kW Exproof Motor  | IEC80 |  |
|        |                     | 0.75kW Standard Motor | IEC80 |  |
|        |                     | 1.1kW Standard Motor  | IEC80 |  |

## 6.BEARING LIST

| Series | Bearing Type       | Part Number | Item Number | Brand  |
|--------|--------------------|-------------|-------------|--------|
| GM     | Single Row Bearing | S61116      | 340         | SKF    |
|        |                    | 4099994000  | 140         | SKF    |
| GB     | Ball Bearing       | S4090116040 | 340         | Timken |
|        | Single Row Bearing | 4099994000  | 140         | SKF    |

## 7. OPERATION REQUIREMENT

### 7.1 Suction Condition Requirements

| Series        | Minimum Internal Pressure | Maximum Suction Pressure | Suction Lift  | Suction Piping               |                                       |
|---------------|---------------------------|--------------------------|---------------|------------------------------|---------------------------------------|
|               |                           |                          |               | Minimum Diameter Recommended | Maximum Length Recommended            |
| GM            | 0.83bara (12.6 psia)      | 1 barg                   | 3 m (Water)   | 3/4"                         | 2 m<br>Increase diameter if exceed 2m |
| GB0080-GB0600 |                           |                          | 2.5 m (Water) | 1"                           |                                       |
| GB0700-GB1800 |                           |                          |               | 1-1/2"                       |                                       |

## 8.DIAPHRAGM

8.1 Material

PTFE

8.2 Double Diaphragm Detection

Pressure Gauge

## 9. DISCHARGE PRESSURE LIMITATION FOR PVC LIQUID END

| Fluid Temperature | Maximum Discharge Pressure (bar) |
|-------------------|----------------------------------|
| 50 °C             | 4                                |
| 40 °C             | 6                                |
| 30 °C             | 8                                |
| 20 °C             | 10                               |

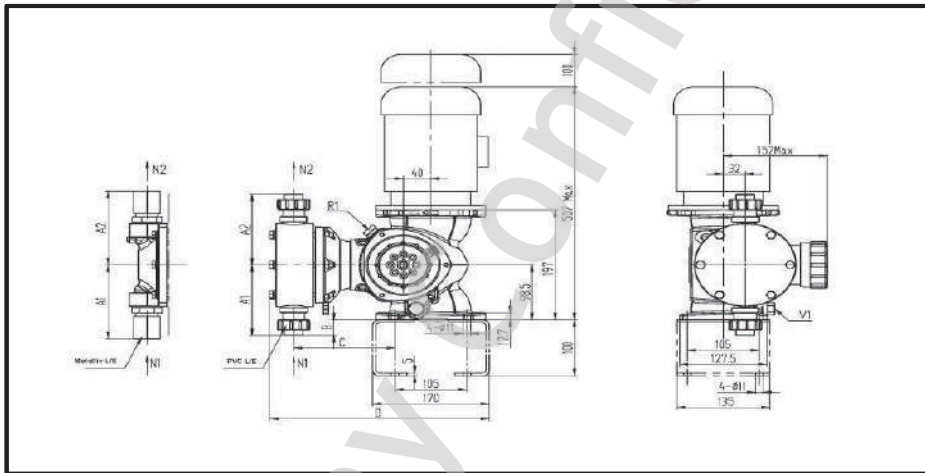
## 10.PACKING WEIGHT AND DIMENSION

| Pump with Motor |               | Export Boxing           |                   |                        |       |        |
|-----------------|---------------|-------------------------|-------------------|------------------------|-------|--------|
|                 |               | Nett Weight (kg)        | Gross Weight (kg) | Packing Dimension (mm) |       |        |
|                 |               |                         |                   | Length                 | Width | Height |
| GM0002-0500     | 316           | 21                      | 25                | 420                    | 320   | 510    |
|                 | PVC/PVDF      | 15                      | 19                | 420                    | 320   | 510    |
|                 | With E-STROKE | E-STROKE (Weight 2.8Kg) |                   | 480                    | 380   | 590    |
| GB0080-0450     | 316           | 36                      | 42                | 480                    | 380   | 590    |
|                 | PVC/PVDF      | 29                      | 35                | 480                    | 380   | 590    |
| GB0500-0600     | 316           | 44                      | 50                | 615                    | 415   | 710    |
|                 | PVC/PVDF      | 29                      | 35                | 480                    | 380   | 590    |
| GB0700-1800     | 316           | 44                      | 50                | 615                    | 415   | 710    |
|                 | PVC/PVDF      | 31                      | 37                | 480                    | 380   | 590    |
| GB0080-1800     | With ACC      | ACC (Weight 4.8Kg)      |                   | 665                    | 515   | 760    |

# G SERIES - TECHNICAL

## 11. Dimension GM Series

| Pump Size       | Material       | Connection |     |           |     | B     | C   | D   |
|-----------------|----------------|------------|-----|-----------|-----|-------|-----|-----|
|                 |                | N1         | A1  | N2        | A2  |       |     |     |
| GM0002 ~ GM0010 | Plastic        | 6 x 12     | 108 | 6 x 12    | 108 | 9.5   | 104 | 250 |
|                 |                | DN15       | 90  | DN15      | 90  | -8.5  | 104 | 250 |
|                 |                | 1/4" NPTM  | 72  | 1/4" NPTM | 72  | -26.5 | 104 | 250 |
|                 | High Viscosity | 15 x 23    | 84  | 9 x 12    | 105 | -14.5 | 104 | 250 |
|                 | Metallic       | 1/2" NPTF  | 102 | 1/2" NPTF | 102 | 3.5   | 104 | 250 |
| GM0025 ~ GM0050 | Plastic        | 6 x 12     | 108 | 6 x 12    | 108 | 9.5   | 104 | 250 |
|                 |                | DN15       | 90  | DN15      | 90  | -8.5  | 104 | 250 |
|                 |                | 1/4" NPTM  | 72  | 1/4" NPTM | 72  | -26.5 | 104 | 250 |
|                 | High Viscosity | 15 x 23    | 86  | 9 x 12    | 108 | -12.5 | 104 | 250 |
|                 | Metallic       | 1/2" NPTF  | 102 | 1/2" NPTF | 102 | 3.5   | 104 | 250 |
| GM0090 ~ GM0500 | Plastic        | 1/2" NPTF  | 127 | 1/2" NPTF | 127 | 28.5  | 148 | 320 |
|                 |                | DN15       | 127 | DN15      | 127 | 28.5  | 148 | 320 |
|                 | High Viscosity | DN15       | 127 | DN15      | 154 | 28.5  | 148 | 320 |
|                 | Metallic       | 1/2" NPTF  | 131 | 1/2" NPTF | 131 | 32.5  | 148 | 315 |



## GB Series

| Pump Size       | Material       | Connection  |     |             |     | B  | C  | D   |
|-----------------|----------------|-------------|-----|-------------|-----|----|----|-----|
|                 |                | N1          | A1  | N2          | A2  |    |    |     |
| GB0080 ~ GB0450 | Plastic        | 1/2" NPTF   | 125 | 1/2" NPTF   | 125 | 2  | 63 | 333 |
|                 | High Viscosity | 1/2" NPTF   | 125 | 1/2" NPTF   | 154 | 2  | 63 | 333 |
|                 | Metallic       | 1/2" NPTF   | 130 | 1/2" NPTF   | 130 | 8  | 63 | 333 |
| GB0500 ~ GB0600 | Plastic        | 1" NPTF     | 144 | 1" NPTF     | 144 | 21 | 72 | 351 |
|                 | High Viscosity | 1" NPTF     | 144 | 1" NPTF     | 185 | 21 | 72 | 351 |
|                 | Metallic       | 1" NPTM     | 181 | 1" NPTM     | 181 | 58 | 76 | 360 |
| GB0700 ~ GB1200 | Plastic        | 1-1/2" NPTF | 188 | 1" NPTF     | 182 | 66 | 94 | 370 |
|                 | High Viscosity | 1-1/2" NPTF | 188 | 1" NPTF     | 223 | 65 | 94 | 370 |
|                 | Metallic       | 1-1/2" NPTM | 200 | 1" NPTM     | 188 | 77 | 98 | 383 |
| GB1500          | Plastic        | 1-1/2" NPTF | 188 | 1-1/2" NPTF | 188 | 65 | 94 | 370 |
|                 | High Viscosity | 1-1/2" NPTF | 188 | 1-1/2" NPTF | 232 | 65 | 94 | 370 |
|                 | Metallic       | 1-1/2" NPTM | 200 | 1-1/2" NPTM | 200 | 77 | 98 | 383 |
| GB1800          | Plastic        | 1-1/2" NPTF | 211 | 1-1/2" NPTF | 211 | 88 | 94 | 370 |
|                 | Metallic       | 1-1/2" NPTM | 205 | 1-1/2" NPTM | 205 | 82 | 98 | 383 |

