

# PRIMEROYAL® Series

## Metering Pump

### Models PL and PLG

The PRIMEROYAL® PL and PRIMEROY® PLG metering pumps are versatile, reliable pumps that consistently and accurately inject chemicals. The pumps' field-proven design enables precise control of the pump delivery rate while meeting or exceeding industry standards for steady state accuracy and repeatability. They feature a compact, variable eccentric drive that changes the stroke length by changing the position of the center of the shaft in the eccentric. Models PL and PLG provide accurate dosing of a broad spectrum of fluids at flow rates that can reach up to 3,651 l/h (940.8 gph). The pumps have a modular design that accepts three types of liquid ends and offer capacity control options so they can meet the specific requirements of a large number of demanding industrial processes.



### Applications

- Oil and Gas
  - Upstream – Injection of methanol at pressures of 1,034 bar (15,000 psi) and more at the wellhead for onshore and offshore wells
  - Midstream – Injection of corrosion inhibitors for produced oil and gas integrity during transportation
  - Downstream – Injection of chemicals for separation and treatment of refined products
  - Produced water treatment – Injection of sodium hypochlorite, biocides, scale inhibitors, oxygen reducing agent, etc.
- Chemical and Petrochemical Processing
  - Dosing catalysts for polymerization of polyethylene
- Power Generation
  - High-pressure boiler feed water treatment

### Features and Benefits

- Compliant with API675 standards
- Minimized footprint
- Available in vertical or horizontal motor configurations
- Manual or electrical stroke length adjustment
- Capacity adjustable while running or stopped
- Packed plunger, Teflon® PTFE or metallic double diaphragm liquid ends available
- Conforms to ATEX CE EX II 2G/D c T3 with ATEX motors
- Multiplexable

## General Specifications

|                                |                                                                                                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy                       | ± 1% over a range of 10 to 100% nominal flowrate                                                                                                                                                    |
| Flow rate adjustment           | Micrometric adjustment of stroke while running or stopped                                                                                                                                           |
| Maximum stroke                 | 50 mm (1.97 in)                                                                                                                                                                                     |
| Frequencies at 50 Hz 960 rpm   | 64 and 80 spm                                                                                                                                                                                       |
| Frequencies at 50 Hz 1,440 rpm | 96, 120, 149 and 180 spm                                                                                                                                                                            |
| Frequencies at 60 Hz 1,140 rpm | 77 and 96 spm                                                                                                                                                                                       |
| Frequencies at 60 Hz 1,725 rpm | 115, 144, and 179 spm                                                                                                                                                                               |
| Thrust                         | 900 daN (2,023 lbf)                                                                                                                                                                                 |
| Ambient operating temperature  | Standard: -10°C to 50°C (14°F to 122°F)<br>Low temperature option: -40°C to 50°C (-40°F to 122°F)                                                                                                   |
| API675                         | Conforms (exemptions available on request)                                                                                                                                                          |
| ATEX                           | Conforms to ATEX CE EX II 2G/D c T3 with ATEX motor<br>ATEX for plastic liquid ends, please consult us<br>For packed plunger liquid ends, in area 1 consult us                                      |
| Suction                        | 2 m (6.57 ft) water on M, H and P Liquid ends<br>2 m (6.57 ft) water on min. pumped flooded on MX liquid ends<br>4 m (13 ft) water on UT liquid ends<br>6 m (19.7 ft) water on N and NX liquid ends |
| Motor mounting                 | F165, F215, F265                                                                                                                                                                                    |

## Design Specifications

### Model PL with Packed Plunger Type NX\*

| Flow rate                         |               | Pressure max.<br>50 Hz Motor (kW) |     |       |       |       |     | Freq.<br>(spm) |       | Flow rate                           |               | Pressure max.<br>60 Hz Motor (HP) |        |        |        |        |       | Freq.<br>(spm) |                                | Connections<br>ball valves |  |
|-----------------------------------|---------------|-----------------------------------|-----|-------|-------|-------|-----|----------------|-------|-------------------------------------|---------------|-----------------------------------|--------|--------|--------|--------|-------|----------------|--------------------------------|----------------------------|--|
|                                   |               |                                   |     |       |       |       |     |                |       |                                     |               |                                   |        |        |        |        |       |                |                                |                            |  |
|                                   |               | 0.75                              | 1.1 | 1.5   | 2.2   | 3     | 4   | 1.1            | 1.5   |                                     |               | 2.2                               | 3      | 4      |        |        |       |                |                                |                            |  |
| 10 bar                            | Pres.<br>Max. | J                                 | K   | L     | M     | P     | Q   | 960            | 1,440 | 145<br>psi                          | Pres.<br>Max. | J                                 | K      | L      | M      | P      | 1,140 | 1,725          |                                |                            |  |
| l/h                               |               | bar                               |     |       |       |       |     |                |       | gph                                 |               | psi                               |        |        |        |        |       |                |                                |                            |  |
| Ø 10 mm - Swept Volume: 3.93 cm³  |               |                                   |     |       |       |       |     |                |       | Ø 0.394 in - Swept Volume: 0.24 in³ |               |                                   |        |        |        |        |       |                |                                | 3/8"                       |  |
| 13.6                              | 8.2           | 500                               | 780 | 1,000 |       |       |     | 64             |       | 4.3                                 | 2.6           | 7,252                             | 11,313 | 14,504 |        |        | 77    |                | (Ø 6.35 mm /<br>0.250 in - LD) |                            |  |
| 17.5                              | 10.6          | 410                               | 630 | 850   | 1,000 |       |     | 80             |       | 5.5                                 | 3.4           | 5,947                             | 9,137  | 12,328 | 14,504 |        | 96    |                |                                |                            |  |
| 21.7                              | 13.1          | 340                               | 520 | 730   | 1,000 |       |     |                | 96    | 6.9                                 | 4.2           | 4,931                             | 7,541  | 10,588 | 14,504 |        |       | 115            |                                |                            |  |
| 27.1                              | 16.4          | 270                               | 420 | 580   | 880   | 1,000 |     |                | 120   | 8.6                                 | 5.2           | 3,916                             | 6,092  | 8,412  | 12,763 | 14,504 |       | 144            |                                |                            |  |
| 33.7                              | 20.4          | 215                               | 335 | 470   | 710   | 1,000 |     |                | 149'  | Not applicable with a 60 Hz motor   |               |                                   |        |        |        |        |       |                |                                |                            |  |
| Ø 16 mm - Swept Volume: 10.05 cm³ |               |                                   |     |       |       |       |     |                |       | Ø 0.625 in - Swept Volume: 0.61 in³ |               |                                   |        |        |        |        |       |                |                                | 1/2"                       |  |
| 34.7                              | 28.8          | 200                               | 310 | 440   |       |       |     | 64             |       | 11.0                                | 9.1           | 2,901                             | 4,496  | 6,382  |        |        | 77    |                | (Ø 9.52 mm /<br>0.375 in - LD) |                            |  |
| 44.9                              | 37.2          | 160                               | 245 | 340   | 440   |       |     | 80             |       | 14.2                                | 11.8          | 2,321                             | 3,553  | 4,931  | 6,382  |        | 96    |                |                                |                            |  |
| 55.6                              | 46.0          | 130                               | 200 | 290   | 440   |       |     |                | 96    | 17.6                                | 14.6          | 1,885                             | 2,901  | 4,206  | 6,382  |        |       | 115            |                                |                            |  |
| 69.5                              | 57.5          | 100                               | 160 | 220   | 340   | 440   |     |                | 120   | 22.0                                | 18.2          | 1,450                             | 2,321  | 3,191  | 4,931  | 6,382  |       | 144            |                                |                            |  |
| 86.3                              | 71.4          | 80                                | 130 | 180   | 275   | 380   | 440 |                | 149'  | Not applicable with a 60 Hz motor   |               |                                   |        |        |        |        |       |                |                                |                            |  |

\*This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

\*To have an ATEX certification in zone 1, please add probes = CONSULT

<sup>1</sup>Do not use with 60 Hz Motor

LD = Hardened valves - double valve

## Design Specifications

### Model PL with Packed Plunger Type UT or N\*

| Flow rate                                           |               | Pressure max.<br>50 Hz Motor (kW) |     |     |     |     |     | Freq.<br>(spm) |       | Flow rate                                          |               | Pressure max.<br>60 Hz Motor (HP) |       |       |       |       | Freq.<br>(spm) |       | Connections<br>ball valves |  |
|-----------------------------------------------------|---------------|-----------------------------------|-----|-----|-----|-----|-----|----------------|-------|----------------------------------------------------|---------------|-----------------------------------|-------|-------|-------|-------|----------------|-------|----------------------------|--|
|                                                     |               |                                   |     |     |     |     |     |                |       |                                                    |               |                                   |       |       |       |       |                |       |                            |  |
|                                                     |               | 0.75                              | 1.1 | 1.5 | 2.2 | 3   | 4   | 1.1            | 1.5   |                                                    |               | 2.2                               | 3     | 4     |       |       |                |       |                            |  |
| 10 bar                                              | Pres.<br>Max. | J                                 | K   | L   | M   | P   | Q   | 960            | 1,440 | 145<br>psi                                         | Pres.<br>Max. | J                                 | K     | L     | M     | P     | 1,140          | 1,725 |                            |  |
| l/h                                                 |               | bar                               |     |     |     |     |     |                |       | gph                                                |               | psi                               |       |       |       |       |                |       |                            |  |
| Liquid End N - Ø 19.1 mm - Swept Volume: 14.25 cm³  |               |                                   |     |     |     |     |     |                |       | Liquid End N - Ø 0.75 in - Swept Volume: 0.87 in³  |               |                                   |       |       |       |       |                | 1/2"  |                            |  |
| 52                                                  | 45            | 138                               | 215 | 302 | 309 |     |     | 64             |       | 16.5                                               | 14.3          | 2,002                             | 3,118 | 4,380 | 4,482 |       | 77             |       |                            |  |
| 65                                                  | 57            | 109                               | 171 | 241 | 309 |     |     | 80             |       | 20.6                                               | 18.1          | 1,581                             | 2,480 | 3,495 | 4,482 |       | 96             |       |                            |  |
| 78                                                  | 68            | 90                                | 141 | 199 | 302 | 309 |     |                | 96    | 24.7                                               | 21.6          | 1,305                             | 2,045 | 2,886 | 4,380 | 4,482 |                | 115   |                            |  |
| 98                                                  | 86            | 71                                | 112 | 158 | 240 | 309 |     |                | 120   | 31.1                                               | 27.3          | 1,030                             | 1,624 | 2,292 | 3,481 | 4,482 |                | 144   |                            |  |
| 122                                                 | 107           | 56                                | 89  | 126 | 192 | 267 | 309 |                | 149¹  | Not applicable to a 60 Hz motor                    |               |                                   |       |       |       |       |                |       |                            |  |
| Liquid End UT - Ø 44.5 mm - Swept Volume: 77.59 cm³ |               |                                   |     |     |     |     |     |                |       | Liquid End UT - Ø 1.75 in - Swept Volume: 4.73 in³ |               |                                   |       |       |       |       |                | 1"    |                            |  |
| 286                                                 | 280           | 23                                | 38  | 54  | 55  |     |     | 64             |       | 90.7                                               | 88.8          | 334                               | 551   | 783   | 798   |       | 77             |       |                            |  |
| 357                                                 | 350           | 17                                | 30  | 42  | 55  |     |     | 80             |       | 113.2                                              | 111.0         | 247                               | 435   | 609   | 798   |       | 96             |       |                            |  |
| 426                                                 | 421           | 13                                | 24  | 35  | 54  | 55  |     |                | 96    | 135.0                                              | 133.5         | 189                               | 348   | 508   | 783   | 798   |                | 115   |                            |  |
| 536                                                 | 526           | 9                                 | 18  | 27  | 42  | 55  |     |                | 120   | 169.9                                              | 166.7         | 131                               | 261   | 392   | 609   | 798   |                | 144   |                            |  |
| 665                                                 | 653           | 6                                 | 13  | 21  | 33  | 47  | 55  |                | 149¹  | Not applicable to a 60 Hz motor                    |               |                                   |       |       |       |       |                |       |                            |  |

\* This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

\*For methanol applications, please consult us.

\*To have an ATEX certification in zone 1, please add probes = CONSULT

<sup>1</sup>Do not use with 60 Hz Motor  
NS = Single valve  
LD = Hardened valves - double valve

## Design Specifications

### Model PL with Packed Plunger Type UT\*

| Flow rate                             |               | Pressure max.<br>50 Hz Motor (kW) |     |     |     |    |    | Freq.<br>(spm) |       | Flow rate                         |               | Pressure max.<br>60 Hz Motor (HP) |     |     |     |                         |     | Freq.<br>(spm) |       | Connections<br>ball valves   |                         |
|---------------------------------------|---------------|-----------------------------------|-----|-----|-----|----|----|----------------|-------|-----------------------------------|---------------|-----------------------------------|-----|-----|-----|-------------------------|-----|----------------|-------|------------------------------|-------------------------|
|                                       |               |                                   |     |     |     |    |    |                |       |                                   |               |                                   |     |     |     |                         |     |                |       |                              | Motor<br>Speed<br>(rpm) |
|                                       |               | 0.75                              | 1.1 | 1.5 | 2.2 | 3  | 4  | 1.1            | 1.5   |                                   |               | 2.2                               | 3   | 4   | 5.4 | Motor<br>Speed<br>(rpm) |     |                |       |                              |                         |
| 10 bar                                | Pres.<br>Max. | J                                 | K   | L   | M   | P  | Q  | 960            | 1,440 | 145<br>psi                        | Pres.<br>Max. | J                                 | K   | L   | M   | P                       | Q   | 1,140          | 1,725 |                              |                         |
| l/h                                   |               | bar                               |     |     |     |    |    |                |       | gph                               |               | psi                               |     |     |     |                         |     |                |       |                              |                         |
| Ø 50.8 mm - Swept volume: 101.34 cm³  |               |                                   |     |     |     |    |    |                |       | Ø 2 in - Swept volume: 6.18 in³   |               |                                   |     |     |     |                         |     |                |       | 1"                           |                         |
| 373                                   | 368           | 16                                | 28  | 41  | 41  | 41 | 41 | 64             |       | 118.2                             | 116.7         | 232                               | 406 | 595 | 595 | 595                     | 595 | 77             |       | (Ø 25 mm<br>(0.98 in - NS))  |                         |
| 466                                   | 460           | 12                                | 22  | 32  | 41  | 41 | 41 | 80             |       | 147.7                             | 145.8         | 174                               | 319 | 464 | 595 | 595                     | 595 | 96             |       |                              |                         |
| 560                                   | 553           | 9                                 | 17  | 26  | 41  | 41 | 41 |                | 96    | 177.5                             | 175.3         | 131                               | 247 | 377 | 595 | 595                     | 595 |                | 115   |                              |                         |
| 700                                   | 691           | 5                                 | 12  | 20  | 32  | 41 | 41 |                | 120   | 221.9                             | 219.1         | 73                                | 174 | 290 | 464 | 595                     | 595 |                | 144   |                              |                         |
| 869                                   | 858           | 3                                 | 8   | 14  | 25  | 36 | 41 |                | 149¹  | Not applicable with a 60 Hz motor |               |                                   |     |     |     |                         |     |                |       |                              |                         |
| Ø 101.6 mm - Swept volume: 405.37 cm³ |               |                                   |     |     |     |    |    |                |       | Ø 4 in - Swept volume: 24.74 in³  |               |                                   |     |     |     |                         |     |                |       | 2"                           |                         |
|                                       | 1,494         |                                   |     | 7   | 9   |    |    | 64             |       |                                   | 473.6         |                                   |     | 102 | 131 |                         |     | 77             |       | (Ø 40 mm<br>(1.575 in - NS)) |                         |
|                                       | 1,867         |                                   |     |     | 9   |    |    | 80             |       |                                   | 591.9         |                                   |     |     | 131 |                         |     | 96             |       |                              |                         |
|                                       | 2,241         |                                   |     |     | 7   | 9  |    |                | 96    |                                   | 710.4         |                                   |     |     | 102 | 131                     |     |                | 115   |                              |                         |
|                                       | 2,802         |                                   |     |     |     | 8  | 9  |                | 120   |                                   | 888.3         |                                   |     |     |     | 116                     | 131 |                | 144   |                              |                         |
|                                       | 3,480         |                                   |     |     |     | 5  | 9  |                | 149¹  | Not applicable with a 60 Hz motor |               |                                   |     |     |     |                         |     |                |       |                              |                         |

\* This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

\*For methanol applications, please consult us.

\*To have an ATEX certification in zone 1, please add probes = CONSULT

<sup>1</sup>Do not use with 60 Hz Motor

NS=Single valve

## Design Specifications

### Model PL with Metallic Double Diaphragm Liquid End Type MX\*

| Flow rate                       |               | Pressure max.<br>50 Hz Motor (kW) |     |       |       |       |       |       | Freq.<br>(spm) |       | Flow rate                          |               | Pressure max.<br>60 Hz Motor (HP) |        |        |        |        |        | Freq.<br>(spm) |       | Connections<br>ball valves                                                          |  |
|---------------------------------|---------------|-----------------------------------|-----|-------|-------|-------|-------|-------|----------------|-------|------------------------------------|---------------|-----------------------------------|--------|--------|--------|--------|--------|----------------|-------|-------------------------------------------------------------------------------------|--|
|                                 |               |                                   |     |       |       |       |       |       |                |       |                                    |               |                                   |        |        |        |        |        |                |       |                                                                                     |  |
|                                 |               | 0.75                              | 1.1 | 1.5   | 2.2   | 3     | 4     | 5.5   | 1.1            | 1.5   |                                    |               | 2.2                               | 3      | 4      | 5.4    | 1,140  | 1,725  |                |       |                                                                                     |  |
| 10<br>bar                       | Pres.<br>Max. | J                                 | K   | L     | M     | P     | Q     | T     | 960            | 1,440 | 145<br>psi                         | Pres.<br>Max. | J                                 | K      | L      | M      | P      | Q      | 1,140          | 1,725 |                                                                                     |  |
| l/h                             |               | bar                               |     |       |       |       |       |       |                |       | gph                                |               | psi                               |        |        |        |        |        |                |       |                                                                                     |  |
| Ø 10 mm - Swept Volume: 3.6 cm³ |               |                                   |     |       |       |       |       |       |                |       | Ø .394 in - Swept Volume: 0.22 in³ |               |                                   |        |        |        |        |        |                |       | 1"                                                                                  |  |
| 13                              | 6             | 481                               | 742 | 1,034 |       |       |       |       | 64             |       | 4.1                                | 1.9           | 6,976                             | 10,762 | 14,997 |        |        |        | 77             |       | Suction:<br>3/4" NPT f<br>Discharge :<br>9/16" MP<br>(Ø 6.35 mm /<br>0.250 in - LD) |  |
| 16                              | 7             | 385                               | 593 | 832   | 1,034 |       |       |       | 80             |       | 5.1                                | 2.2           | 5,584                             | 8,601  | 12,067 | 14,997 |        |        | 96             |       |                                                                                     |  |
| 20                              | 9             | 320                               | 494 | 693   | 1,034 |       |       |       |                | 96    | 6.3                                | 2.9           | 4,641                             | 7,165  | 10,051 | 14,997 |        |        |                | 115   |                                                                                     |  |
| 25                              | 11            | 256                               | 395 | 554   | 833   | 1,034 |       |       |                | 120   | 7.9                                | 3.5           | 3,713                             | 5,729  | 8,035  | 12,082 | 14,997 |        |                | 144   |                                                                                     |  |
| 31                              | 14            | 206                               | 318 | 446   | 671   | 927   | 1,034 |       |                | 149   | 9.8                                | 4.4           | 2,988                             | 4,612  | 6,469  | 9,732  | 13,445 | 14,997 |                | 179   |                                                                                     |  |
| 37                              | 17            | 171                               | 263 | 369   | 555   | 767   | 1,032 | 1,034 |                | 180¹  | Not applicable with a 60 Hz motor  |               |                                   |        |        |        |        |        |                |       |                                                                                     |  |
| Ø 13 mm - Swept Volume: 6.3 cm³ |               |                                   |     |       |       |       |       |       |                |       | Ø .51 in - Swept Volume: 0.38 in³  |               |                                   |        |        |        |        |        |                |       | 2"                                                                                  |  |
| 23                              | 16            | 270                               | 417 | 585   | 617   |       |       |       | 64             |       | 7.3                                | 5.1           | 3,916                             | 6,048  | 8,485  | 8,949  |        |        | 77             |       | Suction:<br>1" NPT f<br>Discharge:<br>3/4" MP<br>(Ø 9.52 mm /<br>0.375 in - LD)     |  |
| 29                              | 21            | 216                               | 333 | 468   | 617   |       |       |       | 80             |       | 9.2                                | 6.7           | 3,133                             | 4,830  | 6,788  | 8,949  |        |        | 96             |       |                                                                                     |  |
| 35                              | 25            | 180                               | 278 | 390   | 585   | 617   |       |       |                | 96    | 11.1                               | 7.9           | 2,611                             | 4,032  | 5,656  | 8,485  | 8,949  |        |                | 115   |                                                                                     |  |
| 44                              | 31            | 144                               | 222 | 312   | 468   | 617   |       |       |                | 120   | 13.9                               | 9.8           | 2,089                             | 3,220  | 4,525  | 6,788  | 8,949  |        |                | 144   |                                                                                     |  |
| 54                              | 39            | 116                               | 179 | 251   | 377   | 521   | 617   |       |                | 149   | 17.1                               | 12.4          | 1,682                             | 2,596  | 3,640  | 5,468  | 7,556  | 8,949  |                | 179   |                                                                                     |  |
| 66                              | 47            | 96                                | 148 | 208   | 312   | 431   | 580   | 617   |                | 180¹  | Not applicable with a 60 Hz motor  |               |                                   |        |        |        |        |        |                |       |                                                                                     |  |

\* This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

<sup>1</sup>Do not use with 60 Hz Motor

Suction lift: 2 m (6.57 feet water) mini. pump flooded

LD = Hardened valves - double valve

## Design Specifications

### Model PL with Metallic Single Diaphragm Liquid End Type M\*

| Flow rate                                            |               | Pressure max.<br>50 Hz Motor (kW) |     |     |     |     |     |     | Freq.<br>(spm) |                    | Flow rate                                               |               | Pressure max.<br>60 Hz Motor (HP) |       |       |       |       |       | Freq.<br>(spm) |       | Connections<br>ball valves     |      |                         |
|------------------------------------------------------|---------------|-----------------------------------|-----|-----|-----|-----|-----|-----|----------------|--------------------|---------------------------------------------------------|---------------|-----------------------------------|-------|-------|-------|-------|-------|----------------|-------|--------------------------------|------|-------------------------|
|                                                      |               |                                   |     |     |     |     |     |     |                |                    |                                                         |               |                                   |       |       |       |       |       |                |       |                                |      | Motor<br>Speed<br>(rpm) |
|                                                      |               | 0.75                              | 1.1 | 1.5 | 2.2 | 3   | 4   | 5.5 | 1.1            | 1.5                |                                                         |               | 2.2                               | 3     | 4     | 5.4   |       |       |                |       |                                |      |                         |
| 10<br>bar                                            | Pres.<br>Max. | J                                 | K   | L   | M   | P   | Q   | T   | 960            | 1,440              | 145<br>psi                                              | Pres.<br>Max. | J                                 | K     | L     | M     | P     | Q     | 1,140          | 1,725 |                                |      |                         |
| l/h                                                  |               | bar                               |     |     |     |     |     |     |                |                    | gph                                                     |               | psi                               |       |       |       |       |       |                |       |                                |      |                         |
| Ø 10 mm - Swept Volume: 3.92 cm³ -Diaphragm 112 mm   |               |                                   |     |     |     |     |     |     |                |                    | Ø 0.394 in - Swept Volume: 0.24 in³ - Diaphragm 4.41 in |               |                                   |       |       |       |       |       |                |       |                                | 1/2" |                         |
| 13                                                   | 9             | 500                               |     |     |     |     |     |     | 64             |                    | 4.1                                                     | 2.9           | 7,252                             |       |       |       |       |       | 77             |       | (Ø 6.35 mm /<br>0.250 in - LD) |      |                         |
| 17                                                   | 12            | 419                               | 500 |     |     |     |     |     | 80             |                    | 5.4                                                     | 3.8           | 6,077                             | 7,252 |       |       |       |       | 96             |       |                                |      |                         |
| 20                                                   | 14            | 349                               | 500 |     |     |     |     |     |                | 96                 | 6.3                                                     | 4.4           | 5,062                             | 7,252 |       |       |       |       |                | 115   |                                |      |                         |
| 26                                                   | 18            | 279                               | 428 | 500 |     |     |     |     |                | 120                | 8.2                                                     | 5.7           | 4,047                             | 6,208 | 7,252 |       |       |       |                | 144   |                                |      |                         |
| 32                                                   | 22            | 225                               | 344 | 481 | 500 |     |     |     |                | 149                | 10.1                                                    | 7.0           | 3,263                             | 4,989 | 6,976 | 7,252 |       |       |                | 179   |                                |      |                         |
| 39                                                   | 27            | 186                               | 285 | 398 | 500 |     |     |     |                | 180 <sup>1 2</sup> | Not applicable with a 60 Hz motor                       |               |                                   |       |       |       |       |       |                |       |                                |      |                         |
| Ø 25 mm - Swept Volume: 24.5 cm³ - Diaphragm: 212 mm |               |                                   |     |     |     |     |     |     |                |                    | Ø 0.98 in - Swept Volume: 1.50 in³ - Diaphragm: 8.3 in  |               |                                   |       |       |       |       |       |                |       |                                | 1"   |                         |
| 86                                                   | 77            | 81                                | 126 | 176 | 183 |     |     |     | 64             |                    | 27.3                                                    | 24.4          | 1,175                             | 1,827 | 2,553 | 2,654 |       |       | 77             |       | (Ø 15.9 mm /<br>0.625 in - LD) |      |                         |
| 107                                                  | 97            | 65                                | 101 | 142 | 183 |     |     |     | 80             |                    | 33.9                                                    | 30.7          | 943                               | 1,465 | 2,060 | 2,654 |       |       | 96             |       |                                |      |                         |
| 129                                                  | 117           | 54                                | 84  | 118 | 183 |     |     |     |                | 96                 | 40.9                                                    | 37.1          | 783                               | 1,218 | 1,711 | 2,654 |       |       |                | 115   |                                |      |                         |
| 161                                                  | 146           | 43                                | 68  | 95  | 141 | 183 |     |     |                | 120                | 51.0                                                    | 46.3          | 624                               | 986   | 1,378 | 2,045 | 2,654 |       |                | 144   |                                |      |                         |
| 200                                                  | 182           | 35                                | 54  | 75  | 113 | 157 | 183 |     |                | 149                | 63.4                                                    | 57.7          | 508                               | 783   | 1,088 | 1,639 | 2,277 | 2,654 |                | 179   |                                |      |                         |
| 242                                                  | 220           | 29                                | 45  | 63  | 94  | 131 | 176 | 183 |                | 180 <sup>1 2</sup> | Not applicable with a 60 Hz motor                       |               |                                   |       |       |       |       |       |                |       |                                |      |                         |

\* This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

<sup>1</sup>Do not use with 60 Hz Motor

<sup>2</sup>Use with "flooded suction" (.5 bar / 7psi)

LD = Hardened valves - double valve



## Design Specifications

### Model PL with Metallic Double Diaphragm Liquid End Type M\*

| Flow rate                                            |               | Pressure max.<br>50 Hz Motor (kW) |     |     |     |     |     |     | Freq.<br>(spm)     |                                   | Flow rate                                                |               | Pressure max.<br>60 Hz Motor (HP) |       |       |       |       |       | Freq.<br>(spm) |       | Connections<br>ball valves     |      |                         |
|------------------------------------------------------|---------------|-----------------------------------|-----|-----|-----|-----|-----|-----|--------------------|-----------------------------------|----------------------------------------------------------|---------------|-----------------------------------|-------|-------|-------|-------|-------|----------------|-------|--------------------------------|------|-------------------------|
|                                                      |               |                                   |     |     |     |     |     |     |                    |                                   |                                                          |               |                                   |       |       |       |       |       |                |       |                                |      | Motor<br>Speed<br>(rpm) |
|                                                      |               | 0.75                              | 1.1 | 1.5 | 2.2 | 3   | 4   | 5.5 | 1.1                | 1.5                               |                                                          |               | 2.2                               | 3     | 4     | 5.4   |       |       |                |       |                                |      |                         |
| 10<br>bar                                            | Pres.<br>Max. | J                                 | K   | L   | M   | P   | Q   | T   | 960                | 1,440                             | 145<br>psi                                               | Pres.<br>Max. | J                                 | K     | L     | M     | P     | Q     | 1,140          | 1,725 |                                |      |                         |
| l/h                                                  |               | bar                               |     |     |     |     |     |     |                    |                                   | gph                                                      |               | psi                               |       |       |       |       |       |                |       |                                |      |                         |
| Ø 10 mm - Swept Volume: 3.92 cm³ - Diaphragm 112 mm  |               |                                   |     |     |     |     |     |     |                    |                                   | Ø 0.394 in- Swept Volume: 0.24 in³ - Diaphragm 4.41 in   |               |                                   |       |       |       |       |       |                |       |                                | 1/2" |                         |
| 13                                                   | 8             | 350                               |     |     |     |     |     |     | 64                 |                                   | 4.1                                                      | 2.5           | 5,076                             |       |       |       |       |       | 77             |       | (Ø 6.35 mm /<br>0.250 in - LD) |      |                         |
| 17                                                   | 11            | 350                               |     |     |     |     |     |     | 80                 |                                   | 5.4                                                      | 3.5           | 5,076                             |       |       |       |       |       | 96             |       |                                |      |                         |
| 20                                                   | 13            | 349                               | 350 |     |     |     |     |     | 96                 |                                   | 6.3                                                      | 4.1           | 5,062                             | 5,076 |       |       |       |       |                | 115   |                                |      |                         |
| 26                                                   | 17            | 279                               | 350 |     |     |     |     |     | 120                |                                   | 8.2                                                      | 5.4           | 4,047                             | 5,076 |       |       |       |       |                | 144   |                                |      |                         |
| 32                                                   | 21            | 225                               | 344 | 350 |     |     |     |     | 149                |                                   | 10.1                                                     | 6.7           | 3,263                             | 4,989 | 5,076 |       |       |       |                | 179   |                                |      |                         |
| 39                                                   | 25            | 186                               | 285 | 350 |     |     |     |     | 180 <sup>1 2</sup> | Not applicable with a 60 Hz motor |                                                          |               |                                   |       |       |       |       |       |                |       |                                |      |                         |
| Ø 25 mm - Swept Volume: 24.5 cm³ - Diaphragm: 212 mm |               |                                   |     |     |     |     |     |     |                    |                                   | Ø 0.98 in - Swept Volume: 1.50 in³ - Diaphragm: 8.3 inch |               |                                   |       |       |       |       |       |                |       |                                | 1"   |                         |
| 86                                                   | 71            | 81                                | 126 | 176 | 183 |     |     |     | 64                 |                                   | 27.3                                                     | 22.5          | 1,175                             | 1,827 | 2,553 | 2,654 |       |       | 77             |       | (Ø 15.9 mm /<br>0.625 in - LD) |      |                         |
| 107                                                  | 90            | 65                                | 101 | 142 | 183 |     |     |     | 80                 |                                   | 33.9                                                     | 28.5          | 943                               | 1,465 | 2,060 | 2,654 |       |       | 96             |       |                                |      |                         |
| 129                                                  | 108           | 54                                | 84  | 118 | 183 |     |     |     | 96                 |                                   | 40.9                                                     | 34.2          | 783                               | 1,218 | 1,711 | 2,654 |       |       |                | 115   |                                |      |                         |
| 161                                                  | 135           | 43                                | 68  | 95  | 141 | 183 |     |     | 120                |                                   | 51.0                                                     | 42.8          | 624                               | 986   | 1,378 | 2,045 | 2,654 |       |                | 144   |                                |      |                         |
| 200                                                  | 168           | 35                                | 54  | 75  | 113 | 157 | 183 |     | 149                |                                   | 63.4                                                     | 53.3          | 508                               | 783   | 1,088 | 1,639 | 2,277 | 2,654 |                | 179   |                                |      |                         |
| 242                                                  | 203           | 29                                | 45  | 63  | 94  | 131 | 176 | 183 | 180 <sup>1 2</sup> | Not applicable with a 60 Hz motor |                                                          |               |                                   |       |       |       |       |       |                |       |                                |      |                         |

\* This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

<sup>1</sup>Do not use with 60 Hz Motor

<sup>2</sup>Use with "flooded suction" (5 bar / 7psi)

LD = Hardened valves - double valve

## Design Specifications

### Model PL with HPD Diaphragm Liquid End: Metallic Type H\*

| Flow rate                                               |               | Pressure max.<br>50 Hz Motor (kW) |     |     |     |     |     |     | Freq.<br>(spm) |       | Flow rate                                                |               | Pressure max.<br>60 Hz Motor (HP) |      |      |       |       |     | Freq.<br>(spm) |       | Connections<br>ball valves                                                                                          |                           |                         |
|---------------------------------------------------------|---------------|-----------------------------------|-----|-----|-----|-----|-----|-----|----------------|-------|----------------------------------------------------------|---------------|-----------------------------------|------|------|-------|-------|-----|----------------|-------|---------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------|
|                                                         |               |                                   |     |     |     |     |     |     |                |       |                                                          |               |                                   |      |      |       |       |     |                |       |                                                                                                                     |                           | Motor<br>Speed<br>(rpm) |
| 0.75                                                    | 1.1           | 1.5                               | 2.2 | 3   | 4   | 5.5 | 1.1 | 1.5 | 2.2            | 3     | 4                                                        | 5.4           |                                   |      |      |       |       |     |                |       |                                                                                                                     |                           |                         |
| 10<br>bar                                               | Pres.<br>Max. | J                                 | K   | L   | M   | P   | Q   | T   | 960            | 1,440 | 145<br>psi                                               | Pres.<br>Max. | J                                 | K    | L    | M     | P     | Q   | 1,140          | 1,725 |                                                                                                                     |                           |                         |
| l/h                                                     |               | bar                               |     |     |     |     |     |     |                |       | gph                                                      |               | psi                               |      |      |       |       |     |                |       |                                                                                                                     |                           |                         |
| Ø 20 mm - Swept Volume: 15.70 cm³ - Diaphragm: 106 mm   |               |                                   |     |     |     |     |     |     |                |       | Ø 0.79 in - Swept Volume: 0.96 in³ - Diaphragm: 4.2 in   |               |                                   |      |      |       |       |     |                |       |                                                                                                                     | 1/2"                      |                         |
| 57                                                      | 34            | 131                               | 200 | 280 | 286 |     |     |     | 64             |       | 18.1                                                     | 10.8          | 1900                              | 2901 | 4061 | 4,148 |       |     | 77             |       | P ≤ 1392 psi (96 bar)<br>(Ø 9.52 mm /<br>0.37 in - ND)<br><br>P> 1,392 psi (96 bar)<br>(Ø 9.52 mm /<br>0.37 in- LD) |                           |                         |
| 71                                                      | 43            | 104                               | 160 | 224 | 286 |     |     |     | 80             |       | 22.5                                                     | 13.6          | 1508                              | 2321 | 3249 | 4,148 |       |     | 96             |       |                                                                                                                     |                           |                         |
| 85                                                      | 52            | 87                                | 133 | 186 | 279 | 286 |     |     |                | 96    | 26.9                                                     | 16.5          | 1262                              | 1929 | 2698 | 4,047 | 4,148 |     |                | 115   |                                                                                                                     |                           |                         |
| 107                                                     | 65            | 69                                | 107 | 149 | 223 | 286 |     |     |                | 120   | 33.9                                                     | 20.6          | 1001                              | 1552 | 2161 | 3,234 | 4,148 |     |                | 144   |                                                                                                                     |                           |                         |
| 133                                                     | 81            | 56                                | 86  | 120 | 179 | 248 | 286 |     |                | 149¹  | Not applicable with a 60 hz motor                        |               |                                   |      |      |       |       |     |                |       |                                                                                                                     |                           |                         |
| Ø 115 mm - Swept Volume: 519.34 cm³ - Diaphragm: 266 mm |               |                                   |     |     |     |     |     |     |                |       | Ø 4.53 in - Swept Volume: 31.69 in³ - Diaphragm: 10.5 in |               |                                   |      |      |       |       |     |                |       |                                                                                                                     | 1" 1/2                    |                         |
|                                                         | 1,894         |                                   |     | 5   | 8   |     |     |     | 64             |       |                                                          | 600.4         |                                   |      | 73   | 116   |       |     | 77             | 3     |                                                                                                                     | Ø 40 mm /<br>1.57 in - NS |                         |
|                                                         | 2,368         |                                   |     |     | 7   | 8   |     |     | 80             |       |                                                          | 750.7         |                                   |      |      | 102   | 116   |     | 96             |       |                                                                                                                     |                           |                         |
|                                                         | 2,841         |                                   |     |     | 5   | 8   |     |     |                | 96    |                                                          | 900.6         |                                   |      |      | 73    | 116   |     |                | 115   |                                                                                                                     |                           |                         |
|                                                         | 3,552         |                                   |     |     |     | 6   | 8   |     |                | 120   |                                                          | 1126.0        |                                   |      |      |       | 87    | 116 |                | 144   |                                                                                                                     |                           |                         |
|                                                         | 4,410         |                                   |     |     |     |     | 7   | 8   |                | 149¹  | Not applicable with a 60 hz motor                        |               |                                   |      |      |       |       |     |                |       |                                                                                                                     |                           | Ø 50 mm/2 in - NS²      |

\* This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

<sup>1</sup>Do not use with 60 Hz Motor

<sup>2</sup>Flat valves

NS = Single valve

ND = Double valve

LD = Hardened double valve

## Design Specifications

### Model PL with HPD Diaphragm Liquid End: Metallic Type P\*

| Flow rate                                              | Pressure max.<br>50 Hz Motor (kW) |     |   |   | Freq.<br>(spm) |                  | Flow rate                                                 | Pressure max.<br>60 Hz Motor (HP) |     |     |     | Freq.<br>(spm) |       | Connections<br>ball valves |                         |
|--------------------------------------------------------|-----------------------------------|-----|---|---|----------------|------------------|-----------------------------------------------------------|-----------------------------------|-----|-----|-----|----------------|-------|----------------------------|-------------------------|
|                                                        |                                   |     |   |   |                |                  |                                                           |                                   |     |     |     |                |       |                            | Motor<br>Speed<br>(rpm) |
|                                                        | 1.5                               | 2.2 | 3 | 4 | 960            | 1,440            |                                                           | 2                                 | 3   | 4   | 5.4 | 1,140          | 1,725 |                            |                         |
| Pres. Max.                                             | L                                 | M   | P | Q |                |                  | Pres. Max.                                                | L                                 | M   | P   | Q   |                |       |                            |                         |
| l/h                                                    | bar                               |     |   |   |                |                  | gph                                                       | psi                               |     |     |     |                |       |                            |                         |
| Ø 115 mm -Swept volume: 519.34 cm3 - Diaphragm: 266 mm |                                   |     |   |   |                |                  | Ø 4.53 in -Swept volume: 31.69 in3 - Diaphragm: 10.5 inch |                                   |     |     |     |                |       | 1" 1/2                     |                         |
| 1,899                                                  | 5                                 | 8   |   |   | 64             |                  | 602.0                                                     | 73                                | 116 |     |     | 77             |       |                            |                         |
| 2,374                                                  |                                   | 7   | 8 |   | 80             |                  | 752.6                                                     |                                   | 102 | 116 |     | 96             |       |                            |                         |
| 2,848                                                  |                                   | 5   | 8 |   |                | 96               | 902.8                                                     |                                   | 73  | 116 |     |                | 115   |                            |                         |
| 3,561                                                  |                                   |     | 0 | 8 |                | 120 <sup>1</sup> | Not applicable with a 60 Hz motor                         |                                   |     |     |     |                |       | Ø 40 mm / 1.57 in -NS)     |                         |

\* This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

<sup>1</sup>Do not use with 60 Hz Motor  
NS = Single valve

## Design Specifications

### Model PLG with GSD Diaphragm Liquid End: Metallic Type H\*

| Flow rate                                              |       | Pressure max.<br>50 Hz Motor (kW) |               |    |    |    |    | Freq.<br>(spm)<br><br>Motor<br>Speed<br>(rpm) |      | Flow rate                                                |     | Pressure max.<br>60 Hz Motor (HP) |       |            |               |     |     | Freq.<br>(spm)<br><br>Motor<br>Speed<br>(rpm) |     | Connections<br>ball valves                |   |
|--------------------------------------------------------|-------|-----------------------------------|---------------|----|----|----|----|-----------------------------------------------|------|----------------------------------------------------------|-----|-----------------------------------|-------|------------|---------------|-----|-----|-----------------------------------------------|-----|-------------------------------------------|---|
|                                                        |       |                                   |               |    |    |    |    |                                               |      |                                                          |     |                                   |       |            |               |     |     |                                               |     |                                           |   |
|                                                        |       | 10<br>bar                         | Pres.<br>Max. | J  | K  | L  | M  | P                                             | Q    |                                                          |     | 960                               | 1,440 | 145<br>psi | Pres.<br>Max. | J   | K   | L                                             | M   |                                           | P |
| l/h                                                    |       | bar                               |               |    |    |    |    | gph                                           |      | psi                                                      |     |                                   |       |            |               |     |     |                                               |     |                                           |   |
| Ø 40 mm - Swept Volume: 62.83 cm³ - Diaphragm 145 mm   |       |                                   |               |    |    |    |    |                                               |      | Ø 1.57 in - Swept Volume: 3.83 in³ - Diaphragm: 5.7 in   |     |                                   |       |            |               |     |     |                                               |     | 1/2"                                      |   |
| 217                                                    | 194   | 32                                | 45            |    |    |    |    | 64                                            |      | 69                                                       | 61  | 464                               | 653   |            |               |     |     | 77                                            |     | (Ø 15.9 mm /<br>0.625 in - NS)            |   |
| 271                                                    | 243   | 26                                | 40            | 45 |    |    |    | 80                                            |      | 86                                                       | 77  | 377                               | 580   | 653        |               |     |     | 96                                            |     |                                           |   |
| 326                                                    | 292   | 21                                | 33            | 45 |    |    |    |                                               | 96   | 103                                                      | 93  | 305                               | 479   | 653        |               |     |     |                                               | 115 |                                           |   |
| 407                                                    | 364   | 16                                | 26            | 37 | 45 |    |    |                                               | 120  | 129                                                      | 115 | 232                               | 377   | 537        | 653           |     |     |                                               | 144 |                                           |   |
| 506                                                    | 452   | 12                                | 20            | 30 | 44 | 45 |    |                                               | 149¹ | Not applicable with a 60 Hz motor                        |     |                                   |       |            |               |     |     |                                               |     | (Ø 25 mm / 0.98 in - NS)                  |   |
| Ø 100 mm - Swept Volume: 392.69 cm³ - Diaphragm 225 mm |       |                                   |               |    |    |    |    |                                               |      | Ø 3.94 in - Swept Volume: 23.96 in³ - Diaphragm: 8.86 in |     |                                   |       |            |               |     |     |                                               |     | 2"                                        |   |
|                                                        | 1,417 |                                   | 5             | 8  | 11 |    |    | 64                                            |      |                                                          | 449 |                                   | 73    | 116        | 160           |     |     | 77                                            |     | (Ø 40 mm /<br>1.575 in - NS)              |   |
|                                                        | 1,771 |                                   |               | 6  | 11 |    |    | 80                                            |      |                                                          | 561 |                                   |       | 87         | 160           |     |     | 96                                            |     |                                           |   |
|                                                        | 2,126 |                                   |               |    | 8  | 11 |    | 96                                            |      |                                                          | 674 |                                   |       |            | 116           | 160 |     |                                               | 115 |                                           |   |
|                                                        | 2,657 |                                   |               |    | 6  | 10 | 11 |                                               | 120  |                                                          | 842 |                                   |       |            | 87            | 145 | 160 |                                               | 144 |                                           |   |
|                                                        | 3,300 |                                   |               |    |    | 7  | 11 |                                               | 149¹ | Not applicable with a 60 Hz motor                        |     |                                   |       |            |               |     |     |                                               |     | (Ø 40 mm / 1.57 in - NS)<br>(Flat valves) |   |

\* This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

<sup>1</sup>Do not use with 60 Hz Motor  
NS = Single valve

## Design Specifications

### Model PLG with GSD Diaphragm Liquid End: Metallic Type P\*

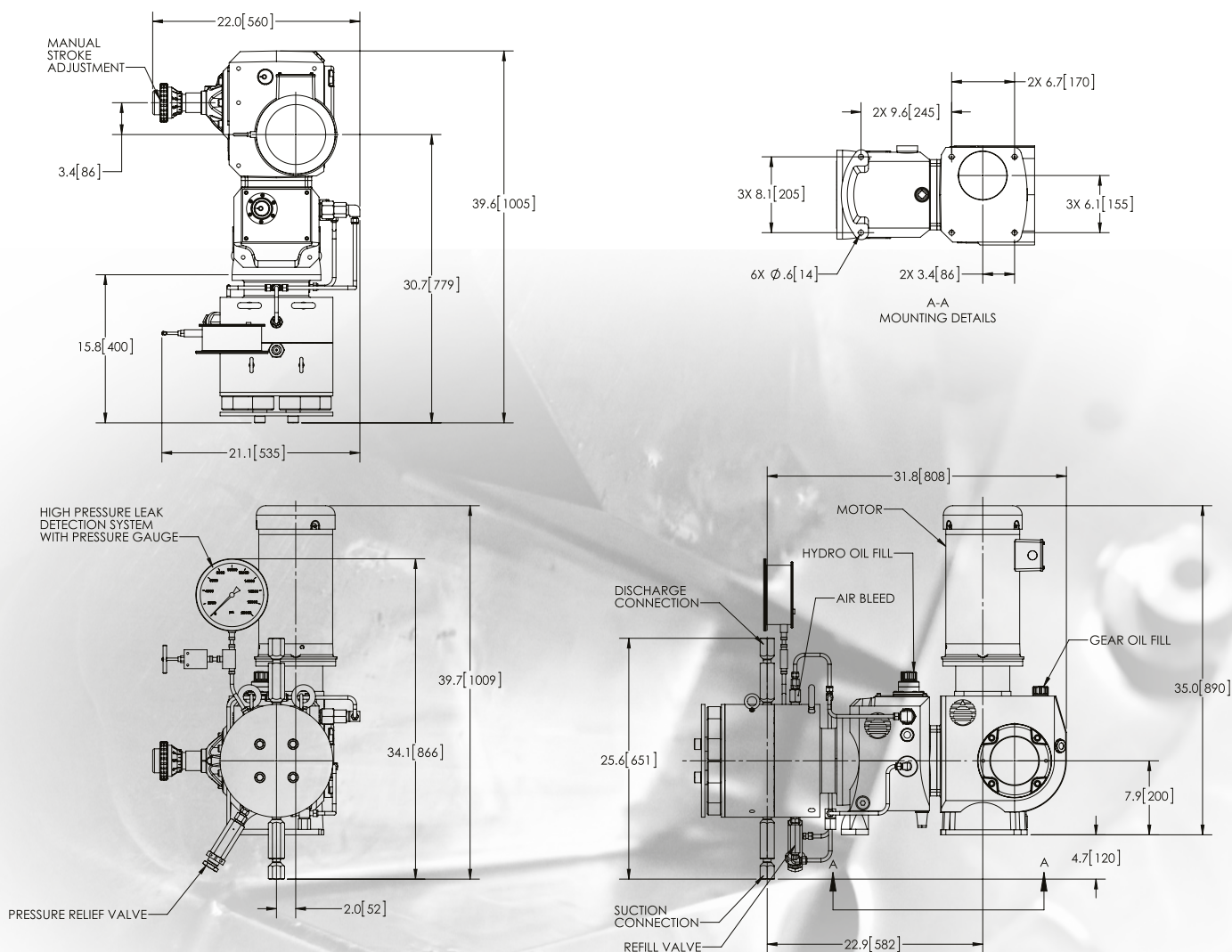
| Flow rate                                             |               | Pressure max.<br>50 Hz Motor (kW) |     |     |     |    | Freq.<br>(spm)<br><br>Motor<br>Speed<br>(rpm) |       | Flow rate                                                |       | Pressure max.<br>60 Hz Motor (HP) |               |     |     |     | Freq.<br>(spm)<br><br>Motor<br>Speed<br>(rpm) |     | Connections<br>ball valves   |       |
|-------------------------------------------------------|---------------|-----------------------------------|-----|-----|-----|----|-----------------------------------------------|-------|----------------------------------------------------------|-------|-----------------------------------|---------------|-----|-----|-----|-----------------------------------------------|-----|------------------------------|-------|
|                                                       |               |                                   |     |     |     |    |                                               |       |                                                          |       |                                   |               |     |     |     |                                               |     |                              |       |
|                                                       |               | 0.75                              | 1.1 | 1.5 | 2.2 | 3  | 960                                           | 1,440 |                                                          |       | 145<br>psi                        | Pres.<br>Max. | J   | 1.5 | 2   | 3                                             | 4   |                              | 1,140 |
| 10 bar                                                | Pres.<br>Max. | J                                 | K   | L   | M   | P  |                                               |       |                                                          |       |                                   |               |     |     |     |                                               |     |                              |       |
| l/h                                                   |               | bar                               |     |     |     |    |                                               |       | gph                                                      |       | psi                               |               |     |     |     |                                               |     |                              |       |
| Ø 50 mm - Swept Volume: 98.17 cm³ - Diaphragm 145 mm  |               |                                   |     |     |     |    |                                               |       | Ø 1.97 in - Swept Volume: 5.99 in³ - Diaphragm: 5.7 in   |       |                                   |               |     |     |     |                                               |     | 1/2"                         |       |
| 347                                                   | 347           | 10                                |     |     |     |    | 64                                            |       | 110.0                                                    | 110.0 | 145                               |               |     |     |     | 77                                            |     | (Ø 25 mm /<br>0.98 in -NS)   |       |
| 434                                                   | 434           | 10                                |     |     |     |    | 80                                            |       | 137.6                                                    | 137.6 | 145                               |               |     |     |     | 96                                            |     |                              |       |
| 520                                                   | 520           | 10                                |     |     |     |    |                                               | 96    | 164.8                                                    | 164.8 | 145                               |               |     |     |     |                                               | 115 |                              |       |
| 650                                                   | 650           | 8                                 | 10  |     |     |    |                                               | 120   | 206.1                                                    | 206.1 | 116                               | 145           |     |     |     |                                               | 144 |                              |       |
| 807                                                   | 807           | 6                                 | 10  |     |     |    |                                               | 149¹  | Not applicable with a 60 Hz motor                        |       |                                   |               |     |     |     |                                               |     |                              |       |
| Ø 100 mm- Swept Volume: 392.69 cm³ - Diaphragm 225 mm |               |                                   |     |     |     |    |                                               |       | Ø 3.94 in - Swept Volume: 23.94 in³ - Diaphragm: 8.86 in |       |                                   |               |     |     |     |                                               |     | 1" 1/2                       |       |
| 1,417                                                 | 1,417         |                                   | 5   | 8   | 10  |    | 64                                            |       | 449.2                                                    | 449.2 |                                   | 73            | 116 | 145 |     | 77                                            |     | (Ø 40 mm /<br>1.575 in - NS) |       |
| 1,771                                                 | 1,771         |                                   |     | 6   | 10  |    | 80                                            |       | 561.4                                                    | 561.4 |                                   |               | 87  | 145 |     | 96                                            |     |                              |       |
| 2,126                                                 | 2,126         |                                   |     |     | 8   | 10 |                                               | 96    | 674.0                                                    | 674.0 |                                   |               |     | 116 | 145 |                                               | 115 |                              |       |
| 2,657                                                 | 2,657         |                                   |     |     | 6   | 10 |                                               | 120¹  | Not applicable with a 60 Hz motor                        |       |                                   |               |     |     |     |                                               |     |                              |       |

\* This chart demonstrates the minimum and maximum flow rate and pressure of the pump. For other specifications, please consult your local representative.

<sup>1</sup>Do not use with 60 Hz Motor  
NS=Single valve

## Dimensions

### Primeroyal L with Liquid End Type MX



## Weight and Packing

| Version           | Net weight (*) |     | Gross weight (*) |     | Packing (**)     |                         |
|-------------------|----------------|-----|------------------|-----|------------------|-------------------------|
|                   | lbs            | kg  | lbs              | kg  | (L x W x H) in   | (L x W x H) mm          |
| <b>PL series</b>  |                |     |                  |     |                  |                         |
| Simplex           | 1,213          | 550 | 1,797            | 815 | 46.5 x 26.8 x 53 | 1181.1 x 680.7 x 1346.2 |
| <b>PLG series</b> |                |     |                  |     |                  |                         |
| Simplex           | 1,069          | 485 | 1,508            | 684 | 43.3 x 26.8 x 53 | 1099.8 x 680.7 x 1346.2 |