

# PUMPS

## GD 205T CONTINUOUS DUTY PLUNGER PUMP

### SPECIFICATIONS

|                                     |                                                                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Maximum BHP                         | 205 (153 kw)                                                                                                                       |
| Maximum RPM                         | 370                                                                                                                                |
| No. of Plungers                     | 3                                                                                                                                  |
| Stroke Length                       | 5 in. (127 mm)                                                                                                                     |
| Plunger Load                        | 13,165 lbs. (5,970 kg)                                                                                                             |
| Discharge Hydrostatic Test Pressure | LP – 3,000 psi (211 kg/cm <sup>2</sup> )<br>MP – 7,410 psi (521 kg/cm <sup>2</sup> )<br>HP – 15,000 psi (1055 kg/cm <sup>2</sup> ) |
| Oil Capacity                        | 14.5 gal. (55 liters)                                                                                                              |
| Pump Weight                         | 3,355 lbs. (1,522 kg)                                                                                                              |



| PLUNGER<br>SIZE                                                                        |     | MAXIMUM<br>PRESSURE |                           | DISPLACEMENT<br>PER REVOLUTION |        | GALLONS PER MINUTE/LITERS AT THE FOLLOWING RPM |     |     |     |     |     |     |      |     |      |     |      |
|----------------------------------------------------------------------------------------|-----|---------------------|---------------------------|--------------------------------|--------|------------------------------------------------|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|
|                                                                                        |     |                     |                           |                                |        | 175                                            |     | 200 |     | 250 |     | 300 |      | 350 |      | 370 |      |
| in.                                                                                    | mm. | PSI                 | kg/sq.<br>cm <sup>2</sup> | GALLONS                        | LITERS | GPM                                            | LPM | GPM | LPM | GPM | LPM | GPM | LPM  | GPM | LPM  | GPM | LPM  |
| LOW PRESSURE ALUMINUM BRONZE FLUID END (TFEA)                                          |     |                     |                           |                                |        |                                                |     |     |     |     |     |     |      |     |      |     |      |
| 4.25                                                                                   | 108 | 930                 | 65                        | 0.921                          | 3.486  | 161                                            | 610 | 184 | 697 | 230 | 871 | 276 | 1046 | 322 | 1220 | 341 | 1290 |
| 4.00                                                                                   | 102 | 1050                | 74                        | 0.816                          | 3.089  | 143                                            | 540 | 163 | 618 | 204 | 772 | 245 | 927  | 286 | 1081 | 302 | 1143 |
| 3.75                                                                                   | 95  | 1195                | 84                        | 0.717                          | 2.714  | 125                                            | 475 | 143 | 543 | 179 | 678 | 215 | 814  | 251 | 950  | 265 | 1004 |
| 3.50                                                                                   | 89  | 1370                | 96                        | 0.625                          | 2.366  | 109                                            | 414 | 125 | 473 | 156 | 591 | 188 | 710  | 219 | 828  | 231 | 875  |
| 3.25                                                                                   | 83  | 1585*               | 111                       | 0.539                          | 2.040  | 94                                             | 357 | 108 | 408 | 135 | 510 | 162 | 612  | 189 | 714  | 199 | 755  |
| 3.00                                                                                   | 76  | 1865*               | 131                       | 0.459                          | 0.216  | 80                                             | 304 | 92  | 347 | 115 | 434 | 138 | 521  | 161 | 608  | 170 | 643  |
| MEDIUM PRESSURE ALUMINUM BRONZE FLUID END (TFEB)                                       |     |                     |                           |                                |        |                                                |     |     |     |     |     |     |      |     |      |     |      |
| 3.00                                                                                   | 76  | 1865                | 131                       | 0.459                          | 1.737  | 80                                             | 304 | 92  | 347 | 115 | 434 | 138 | 521  | 161 | 608  | 170 | 643  |
| 2.75                                                                                   | 70  | 2220                | 156                       | 0.386                          | 1.461  | 68                                             | 256 | 77  | 292 | 97  | 365 | 116 | 438  | 135 | 511  | 143 | 541  |
| 2.50                                                                                   | 64  | 2685                | 189                       | 0.319                          | 1.207  | 56                                             | 211 | 64  | 241 | 80  | 302 | 96  | 362  | 112 | 423  | 118 | 447  |
| 2.25                                                                                   | 57  | 3315                | 233                       | 0.258                          | 0.977  | 45                                             | 171 | 52  | 195 | 65  | 244 | 77  | 293  | 90  | 342  | 95  | 361  |
| 2.00                                                                                   | 51  | 3705                | 260                       | 0.204                          | 0.772  | 36                                             | 135 | 41  | 154 | 51  | 293 | 61  | 232  | 71  | 270  | 75  | 286  |
| EXTRA HP FORGED STEEL (TFEG), HP BLOCK STEEL (TFEC), HP FORGED STEEL (TFEF) FLUID ENDS |     |                     |                           |                                |        |                                                |     |     |     |     |     |     |      |     |      |     |      |
| 2.00                                                                                   | 51  | 4190                | 295                       | 0.204                          | 0.772  | 36                                             | 135 | 41  | 154 | 51  | 193 | 61  | 232  | 71  | 270  | 75  | 286  |
| 1.88                                                                                   | 48  | 4770                | 335                       | 0.179                          | 0.678  | 31                                             | 119 | 36  | 136 | 45  | 169 | 54  | 203  | 63  | 237  | 66  | 251  |
| 1.75                                                                                   | 44  | 5475                | 385                       | 0.156                          | 0.590  | 27                                             | 103 | 31  | 118 | 39  | 148 | 47  | 177  | 55  | 207  | 58  | 218  |
| 1.63                                                                                   | 41  | 6355                | 447                       | 0.135                          | 0.511  | 24                                             | 89  | 27  | 102 | 34  | 128 | 41  | 153  | 47  | 179  | 50  | 189  |
| 1.50                                                                                   | 38  | 7445                | 523                       | 0.115                          | 0.435  | 20                                             | 76  | 23  | 87  | 29  | 109 | 35  | 131  | 40  | 152  | 43  | 161  |
| 1.38                                                                                   | 35  | 8860                | 623                       | 0.096                          | 0.363  | 17                                             | 64  | 19  | 73  | 24  | 91  | 29  | 109  | 34  | 127  | 36  | 134  |
| 1.25                                                                                   | 32  | 10000               | 703                       | 0.080                          | 0.303  | 14                                             | 53  | 16  | 61  | 20  | 76  | 24  | 91   | 28  | 106  | 30  | 112  |

# GD 205T

## CONTINUOUS DUTY PLUNGER PUMP

### STANDARD FEATURES

- Oil level gauge
- Crankshaft type construction
- Double-extended crankshaft 4.0" (10.16 mm) dia., 8.0" (20.32 mm) long
- Keyway (L x W x H) 7.1" x 1" x .57" (18.03 x 2.54 x 1.45 mm)
- Turbo lubrication
- Flanged suction and discharge on either side
- Stainless steel clamp connections between plungers and push rods
- Removable stuffing boxes with threaded glands
- Cradle cover
- Colmonoy, ceramic, or tungsten carbide plungers
- Disc style aluminum bronze, stainless steel, or monel valves
- Wing-guided aluminum bronze, steel, or stainless steel valves
- Non-adjustable packing standard. Kevlar or double stack packing optional

**NOTE:** All installations must contain a pressure relief valve in the discharge line near the pump to help prevent breakage.

### ACCESSORIES

- Mechanical lubricator for stuffing box packing
- Suction stabilizers
- Discharge pulsation dampeners
- Discharge pressure relief valve
- Fabricated steel skid under pump and drive
- V-belt drive assembly
- Totally enclosed metal belt guard (OSHA approved)
- Valve seat puller
- Valve seat driver
- Valve cage wrench
- Companion flanges

|      | Suction Manifold | Discharge Manifold   |
|------|------------------|----------------------|
| TFEA | 6" 150# ANSI     | 3" 2000# API         |
| TFEB | 4" 150# ANSI     | 2" 1500# ANSI        |
| TFEC | 3" 300# ANSI     | 1-13/16" 10,000# API |
| TFEF | 3" 300# ANSI     | 1-13/16" 10,000# API |
| TFEG | 2" 300# SAE      | 2" GR14              |

**Dimensions: Length 54.43", Width 47.62", Height 22.12"**

### MATERIAL SPECIFICATIONS

| SERVICE | TYPE                | CYLINDER                      | PACKING                    | STUFFING BOX                  | COMPONENT                        | MATERIAL                               |
|---------|---------------------|-------------------------------|----------------------------|-------------------------------|----------------------------------|----------------------------------------|
| TFEA    | Low Pressure        | ASTM B-148-9D Aluminum Bronze | Buna-N Non-Adjustable Type | ASTM B-148-9D Aluminum Bronze | Crankshaft<br>Connecting Rods    | Cast Nodular Iron<br>Cast Nodular Iron |
| TFEB    | Medium Pressure     | ASTM B-148-9D Aluminum Bronze | Buna-N Non-Adjustable Type | ASTM B-148-9D Aluminum Bronze | Crossheads Cast<br>Frame         | Nodular Iron<br>Cast Iron              |
| TFEC    | High Pressure       | ASTM A-514 Forged Steel       | Buna-N Non-Adjustable Type | ASTM A546 Cast Nodular Iron   | Bearing-Main<br>Bearing-Crankpin | Tapered Roller<br>Steel Lined with     |
| TFEF    | High Pressure       | ASTM A-514 Block Steel        | Buna-N Non-Adjustable Type | ASTM A546 Carbon Steel        | Bushing-Crosshead                | Tin & Babbitt<br>Bronze                |
| TFEG    | Extra High Pressure | ASTM A-514 Forged Steel       | Buna-N Non-Adjustable Type | ASTM A546 Cast Nodular Iron   |                                  |                                        |

\*Materials listed are furnished as standard equipment. Alternate materials available upon request.