

### FEATURES

- Oversized roller bearings
- Fully anodized crankcase
- Innovative new seal design extends seal life
- New plunger design improves thermal shock resistance
- New valve cap improves hydrostatic performance



### SPECIFICATIONS

| Pump Model                 | TSF1819                | TSF2019          | TSF2019 Alternate Spec | TSF2019DS Dual Shaft | TSF2021          | TSF2021 Alternate Spec | TSF2219          | TSF2219 Alternate Spec | TSF2221         | TSF2221 Alternate Spec | TSF2819       | TSF2421         | TSF2421 Alternate Spec |
|----------------------------|------------------------|------------------|------------------------|----------------------|------------------|------------------------|------------------|------------------------|-----------------|------------------------|---------------|-----------------|------------------------|
| Maximum Volume             | 6.3 GPM                | 7.6 GPM          | 6.3 GPM                | 7.6 GPM              | 8.5 GPM          | 7.0 GPM                | 9.3 GPM          | 7.7 GPM                | 10.2 GPM        | 8.5 GPM                | 12.1 GPM      | 12.0 GPM        | 10.0 GPM               |
| Maximum Discharge Pressure | 4350 PSI               | 4000 PSI         | 4350 PSI               | 4000 PSI             | 3600 PSI         |                        | 3000 PSI         |                        |                 |                        | 2200 PSI      | 2500 PSI        | 3000 PSI               |
| Horsepower                 | 18.8 EBHP              | 20.8 EBHP        | 18.7 EBHP              | 20.8 EBHP            | 21 EBHP          | 17.3 BHP               | 19.1 BHP         | 15.8 BHP               | 21 BHP          | 17.5 BHP               | 18.2 EBHP     | 20.5 EBHP       | 17.1 EBHP              |
| Maximum Pump Speed         | 1750 RPM               |                  | 1450 RPM               | 1750 RPM             | 1750 RPM         | 1450 RPM               | 1750 RPM         | 1450 RPM               | 1750 RPM        | 1450 RPM               |               | 1750 RPM        | 1450 RPM               |
| Maximum Inlet Pressure     | Flooded to 70 PSI      |                  |                        |                      |                  |                        |                  |                        |                 |                        |               |                 |                        |
| Plunger Bore (in / mm)     | .709 in. / 18 mm       | .787 in. / 20 mm |                        |                      |                  |                        | .866 in. / 22 mm |                        |                 |                        | 1.102 / 28 mm | .945 / 24 mm    |                        |
| Plunger Stroke (in / mm)   | .748 in. / 19 mm       |                  |                        |                      | .826 in. / 21 mm |                        | .748 / 19        |                        | .826 in / 21 mm |                        | .748 / 19 mm  | .826 in / 21 mm |                        |
| Oil Capacity               | 33.8 oz.               |                  |                        |                      |                  |                        |                  |                        |                 |                        |               |                 |                        |
| Maximum Fluid Temperature  | 165° F                 |                  |                        |                      |                  |                        |                  |                        |                 |                        |               |                 |                        |
| Inlet Port Thread          | 3/4"-14 BSP-F          |                  |                        |                      |                  |                        |                  |                        |                 |                        |               |                 |                        |
| Discharge Port Thread      | 3/8"-19 BSP-F          |                  |                        |                      |                  |                        |                  |                        |                 |                        |               |                 |                        |
| Shaft Diameter (in / mm)   | .945 in. / 24 mm       |                  |                        |                      |                  |                        |                  |                        |                 |                        |               |                 |                        |
| Weight                     | 40.7 lbs / 18.5 kg     |                  |                        |                      |                  |                        |                  |                        |                 |                        |               |                 |                        |
| Dimensions                 | 14.94" x 9.78" x 6.99" |                  |                        |                      |                  |                        |                  |                        |                 |                        |               |                 |                        |

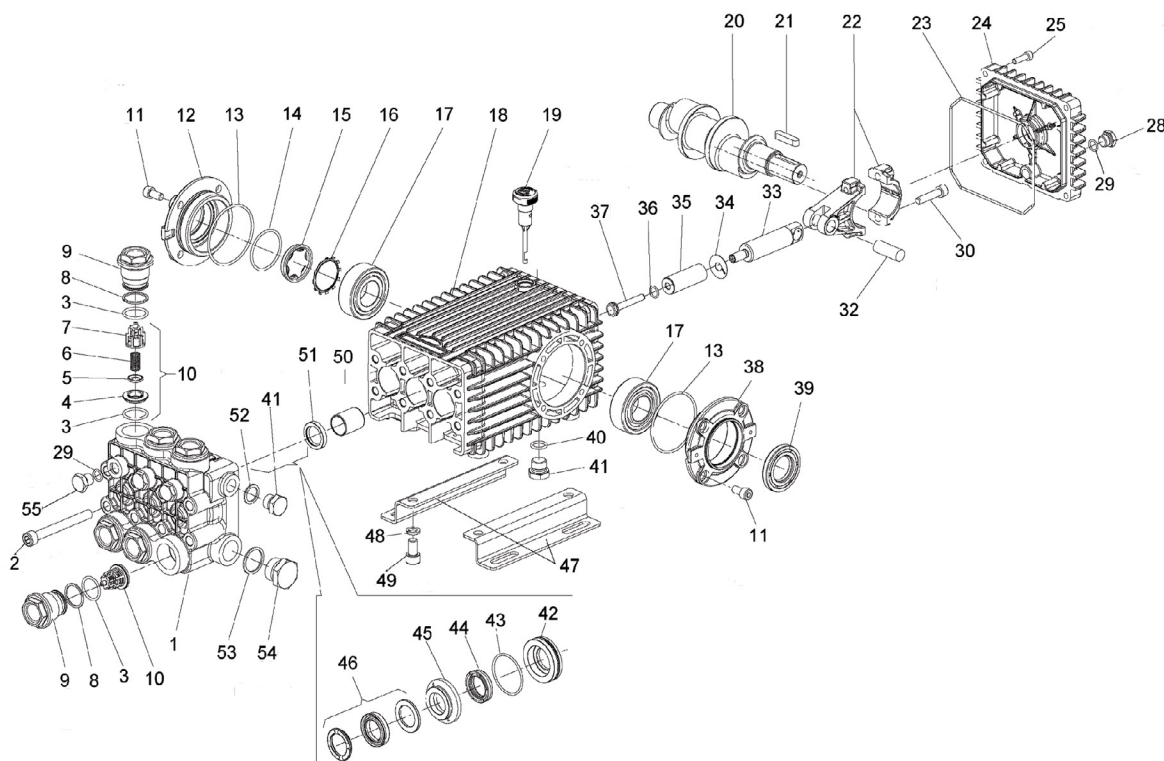


General Pump  
is a member of  
the Interpump Group



Ref 310045 Rev. S  
08-24





### PARTS LIST

| POS. | PART NO. | DESCRIPTION                              | QTY. |
|------|----------|------------------------------------------|------|
| 1    | 66124541 | Manifold, Ø 18mm                         | 1    |
|      | 66120041 | Manifold, Ø 20mm                         | 1    |
|      | 66120141 | Manifold, Ø 22 mm                        | 1    |
|      | 66120241 | Manifold, Ø 24mm                         | 1    |
|      | 66124641 | Manifold, Ø 28mm                         | 1    |
| 2    | 99380100 | Headbolt M10 x 90                        | 8    |
| 3    | 90385700 | O-ring, Ø 23.81x2.62                     | 9    |
| 4    | 36203366 | Valve Seat                               | 6    |
| 5    | 36203476 | Valve Poppet                             | 6    |
| 6    | 94738800 | Valve Spring Ø10x18x18.5                 | 6    |
| 7    | 36203551 | Valve Guide                              | 6    |
| 8    | 90516500 | Anti-ext ring Ø24.7x29x1.5               | 6    |
| 9    | 66130041 | Plug, M32x1.5x29.5                       | 6    |
| 10   | 36712701 | Valve Assy., Complete                    | 6    |
| 11   | 99303900 | Screw M8 x 16                            | 8    |
| 12   | 47151222 | Cover                                    | 1    |
| 13   | 701147   | O-ring, Ø67.95x2.62                      | 2    |
| 14   | 90387700 | O-ring, Ø 39.34x2.62                     | 1    |
| 15   | 70211801 | Oil Sight Glass                          | 1    |
| 16   | 90075600 | Retainer Clip                            | 1    |
| 17   | 91838000 | Bearing                                  | 2    |
| 18   | 66010022 | Crankcase                                | 1    |
| 19   | 98210600 | Dipstick, vented                         | 1    |
| 20   | 66021035 | Crankshaft, 19mm Stroke, 1<br>Dual Shaft | 1    |
|      | 66020035 | Crankshaft, 19mm Stroke                  | 1    |
|      | 66020435 | Crankshaft, 21mm Stroke                  | 1    |

| POS. | PART NO. | DESCRIPTION              | QTY. |
|------|----------|--------------------------|------|
| 21   | 91489200 | Key, 8x7x35              | 1    |
| 22   | 66030001 | Connecting Rod, Complete | 3    |
| 23   | 90392200 | O-ring, Ø133.02x2.62     | 1    |
| 24   | 66160022 | Rear Cover               | 1    |
| 25   | 99188400 | Screw, M6x20             | 4    |
| 28   | 98204100 | Plug, G1/4"x9            | 1    |
| 29   | 701013   | O-ring, Ø .426x.070      | 4    |
| 30   | 99309900 | Screw, M8x35             | 6    |
| 32   | 97740500 | Wrist Pin, 14x39         | 3    |
| 33   | 66050066 | Piston Guide             | 3    |
| 34   | 96710100 | Flinger Washer           | 3    |
| 35   | 66040309 | Plunger, Ø 18mm          | 3    |
|      | 66040009 | Plunger, Ø 20mm          | 3    |
|      | 66040109 | Plunger, Ø 22 mm         | 3    |
|      | 66040409 | Plunger, Ø 24mm          | 3    |
|      | 66041009 | Plunger, Ø 28mm          | 3    |
| 36   | 90358400 | O-ring, Ø 10.82x1.78     | 3    |
| 37   | 66219566 | Plunger Bolt             | 3    |
| 38   | 47151022 | Side Cover, PTO          | 1    |
| 39   | 90164800 | Seal, Shaft              | 1    |
| 40   | 90383300 | O-ring, Ø 13.95x2.62     | 1    |
| 41   | 98210000 | Plug 3/8 x 13            | 2    |
| 42   | 66080370 | Seal Retainer, Ø 18mm    | 3    |
|      | 66080070 | Seal Retainer, Ø 20mm    | 3    |
|      | 66080170 | Seal Retainer, Ø 22mm    | 3    |
| 42   | 66080470 | Seal Retainer, Ø 24mm    | 3    |
|      | 66082570 | Seal Retainer, Ø 28mm    | 3    |

| POS. | PART NO. | DESCRIPTION               | QTY. |
|------|----------|---------------------------|------|
| 43   | 90361600 | O-ring, Ø 34.65x1.78      | 3    |
| 44   | 90265200 | LP Seal, Ø 18mm           | 3    |
|      | 90269000 | LP Seal, Ø 20mm           | 3    |
|      | 90271500 | LP Seal, Ø 22mm           | 3    |
|      | 90273800 | LP Seal, Ø 24mm           | 3    |
|      | 90275300 | LP Seal, Ø 28mm           | 3    |
| 45   | 66216370 | Intermediate Ring, Ø 18mm | 3    |
|      | 66216070 | Intermediate Ring, Ø 20mm | 3    |
|      | 66216170 | Intermediate Ring, Ø 22mm | 3    |
|      | 66216470 | Intermediate Ring, Ø 24mm | 3    |
|      | 66220070 | Intermediate Ring, Ø 28mm | 3    |
| 46   | 90265500 | HP Seal, Ø 18mm           | 3    |
|      | 90269200 | HP Seal, Ø 20mm           | 3    |
|      | 90271700 | HP Seal, Ø 22mm           | 3    |
|      | 90274100 | HP Seal, Ø 24mm           | 3    |
|      | 90275400 | HP Seal, Ø 28mm           | 3    |
| 47   | 47200074 | Pump Rail                 | 2    |
| 48   | 96710600 | Washer M10                | 4    |
| 49   | 99364400 | Screw M10 x 18            | 4    |
| 50   | 90912600 | Guide Bushing             | 3    |
| 51   | 90162500 | Seal, Plunger Rod         | 3    |
| 52   | 96738000 | Gasket, Aluminum 3/8"     | 1    |
| 53   | 96770000 | Washer                    | 1    |
| 54   | 98226800 | Plug, G3/4"x16            | 1    |
| 55   | 98204300 | Plug 1/4" x 13            | 3    |

### REPAIR KITS

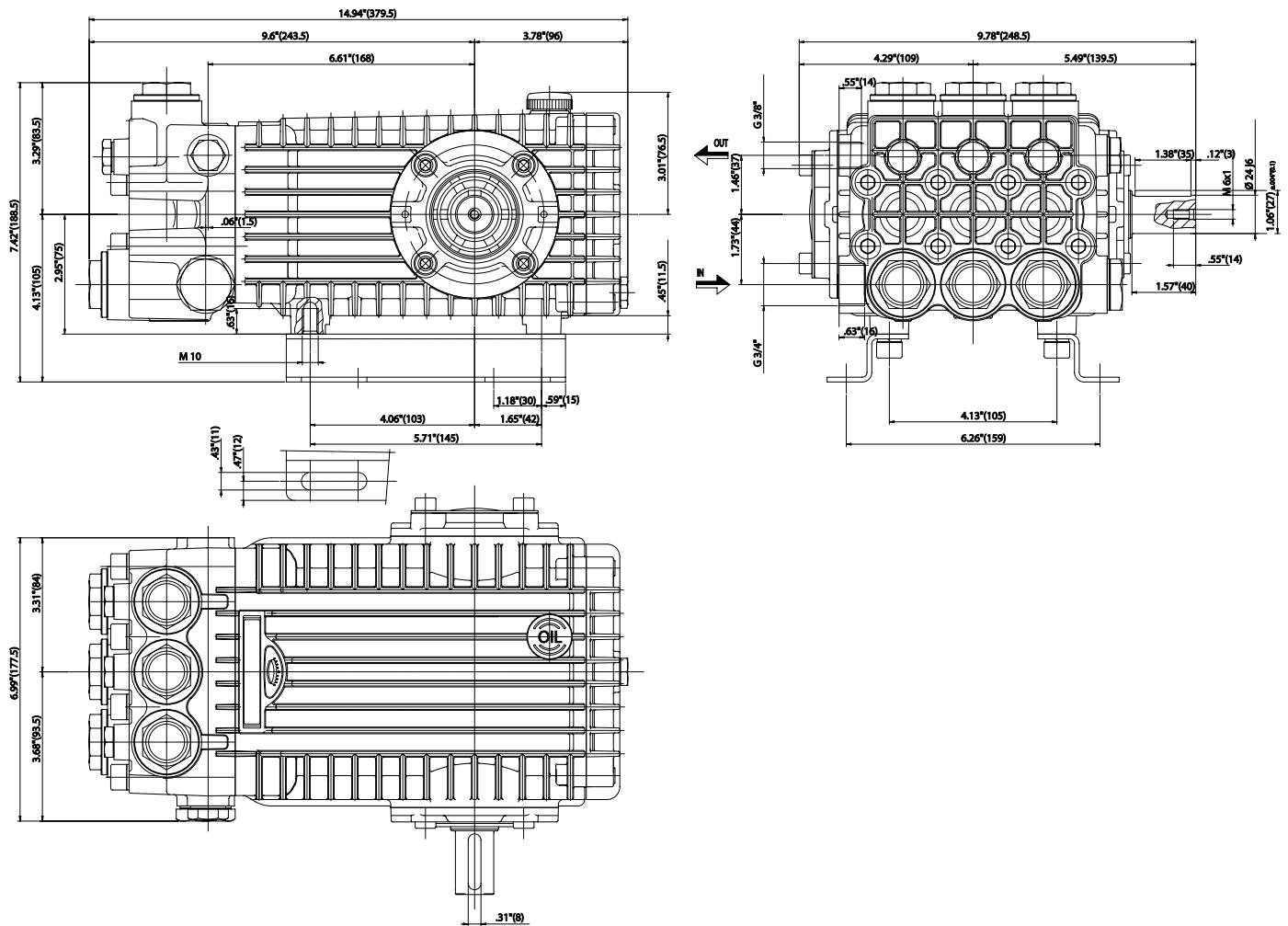
| KIT NO.                                       | K02 | K03 | K169                  | K180<br>(18mm) | K176<br>(18mm)           | K170<br>(20mm) | K171<br>(20mm)        | K172<br>(22mm) | K173<br>(22mm)        | K181<br>(24 mm) | K182<br>(24mm)        | K248<br>(28mm) | K247<br>(28mm)        |
|-----------------------------------------------|-----|-----|-----------------------|----------------|--------------------------|----------------|-----------------------|----------------|-----------------------|-----------------|-----------------------|----------------|-----------------------|
| POS. NO's<br>INCLUDED IN<br>KIT               | 51  | 39  | 3, 4, 5,<br>6, 7 (10) | 44, 46         | 42, 43,<br>44,<br>45, 46 | 44, 46         | 42, 43, 44,<br>45, 46 | 44, 46         | 42, 43, 44,<br>45, 46 | 44, 46          | 42, 43, 44,<br>45, 46 | 44, 46         | 42, 43, 44,<br>45, 46 |
| NUMBER OF<br>ASSEMBLIES<br>IN KIT             | 3   | 1   | 6                     | 3              | 1                        | 3              | 1                     | 3              | 1                     | 3               | 1                     | 3              | 1                     |
| NUMBER OF<br>CYLINDERS<br>KIT WILL<br>SERVICE | 3   | N/A | 3                     | 3              | 1                        | 3              | 1                     | 3              | 1                     | 3               | 1                     | 3              | 1                     |

# 66 Series, TSF

**GENERAL PUMP**

A member of the Interpump Group

## DIMENSIONAL DRAWING



## TORQUE SPECS\*

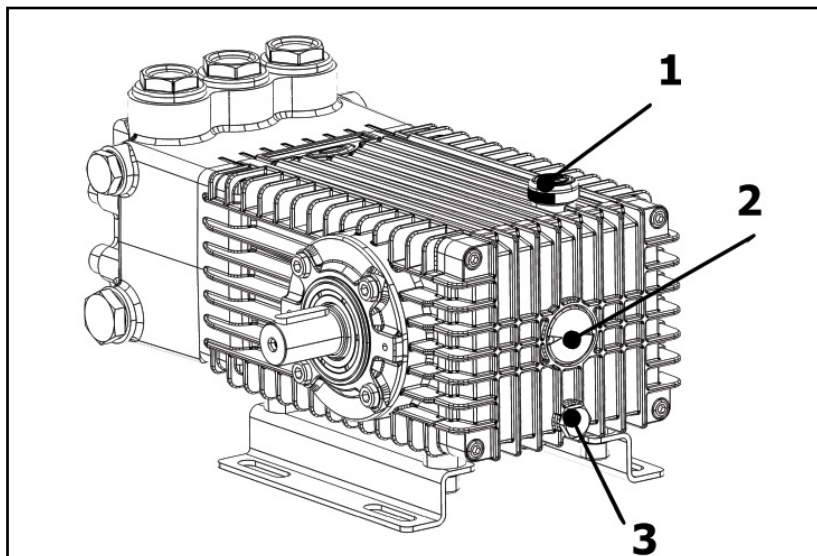
| POS. | Nm  | Ft/lb |
|------|-----|-------|
| 2    | 45  | 33.2  |
| 9    | 130 | 95.9  |
| 11   | 20  | 14.8  |
| 25   | 10  | 7.4   |
| 28   | 20  | 14.8  |
| 30   | 20  | 14.8  |
| 37** | 20  | 14.8† |
| 41   | 40  | 29.5  |
| 49   | 40  | 29.5  |
| 54   | 70  | 51.6  |
| 55   | 40  | 29.5  |

\* Decrease torque by 20% if threads are lubricated

\*\* Use Loc-Tite 542 or similar

## OIL CHANGING

1. Oil changing must be done with the pump at operating temperature.
- 1.2 Put a container under the oil drain plug (3).
- 1.3 Remove the oil dipstick (1) and then the drain plug (3).
- 1.4 Wait until all the oil has drained out, then screw the drain plug (3) and tighten at the torque shown in the exploded diagram and above table.
- 1.5 Fill with new oil (General Pump Series 100) until the middle of the oil sight glass is reached, screw by hand the oil dipstick (1).



**WARNING: High Pressure Systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices properly could result in personal injury or damage to pump or property. GP does not assume any liability or responsibility for the operation of the user's high pressure system.**



WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)