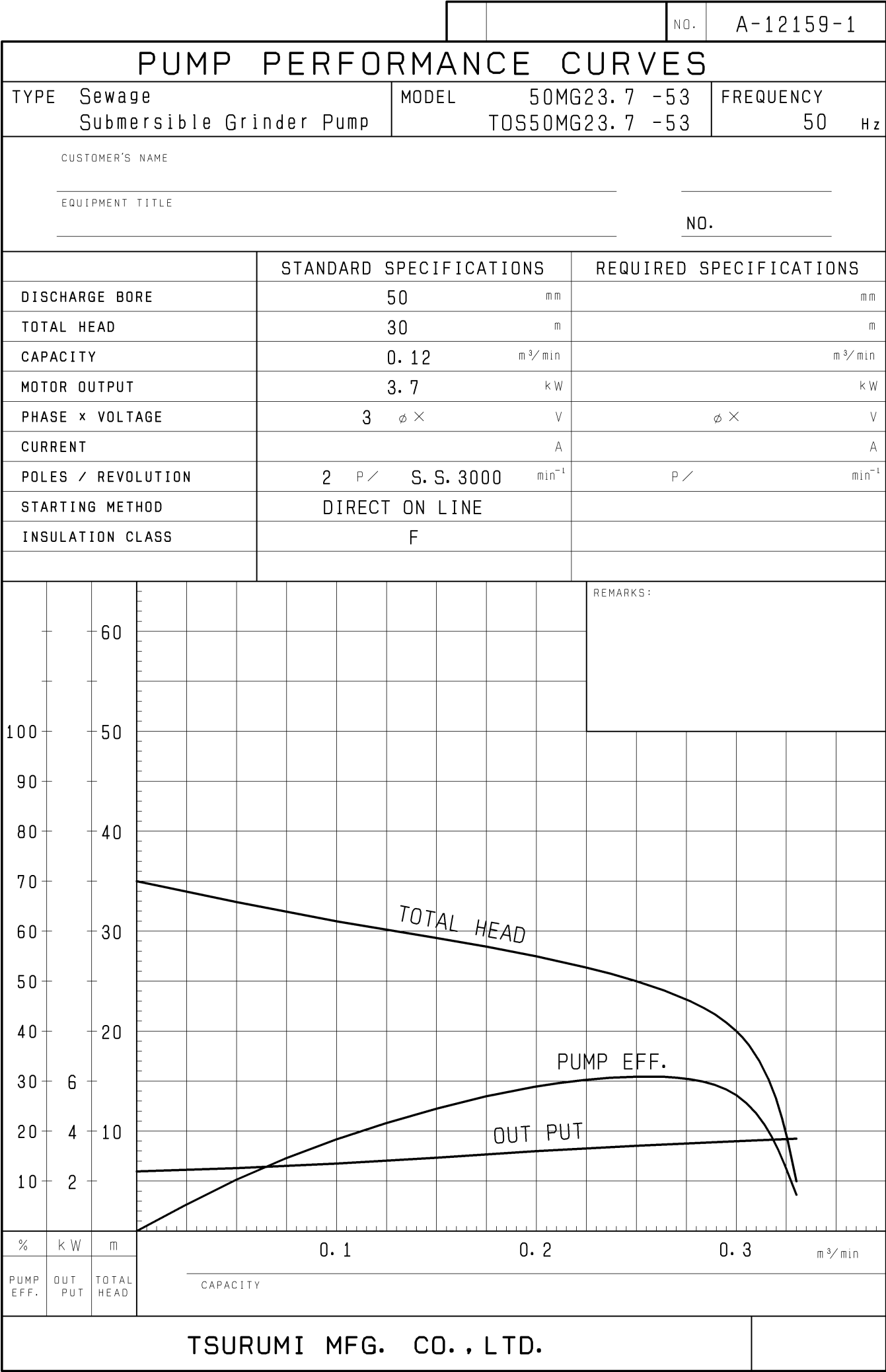
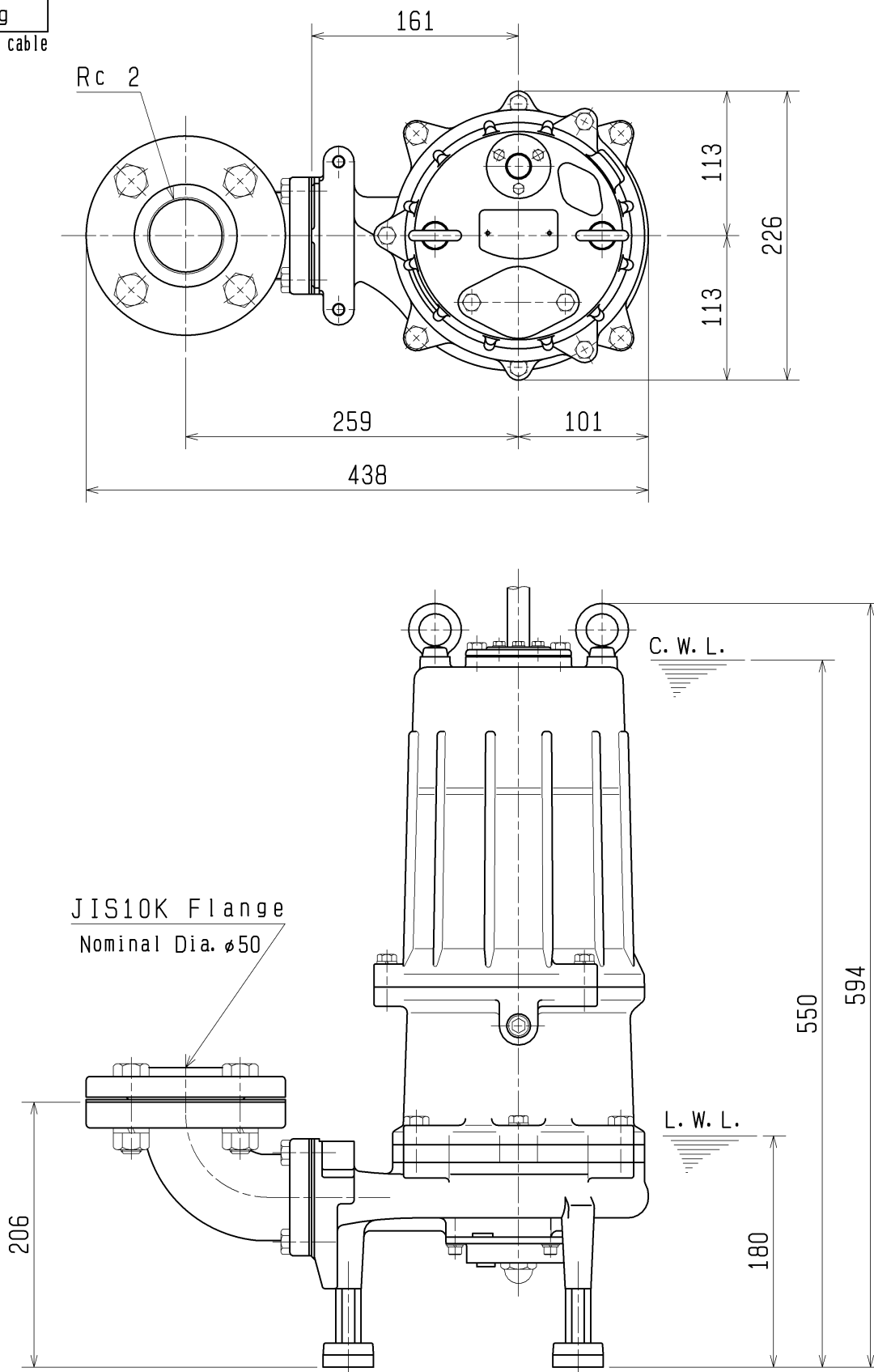


| SPECIFICATIONS | Model | 50MG23.7 | MG-series | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|----------------|-------------|--------------|-------------|-------------|-------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | 3.7kW, 3-phase | | | | | | | |
| <p>Type of Pump Submersible cast iron pump with a grinding mechanism suitable for pumping sewage and wastewater</p> <p>Type of Fluid Sewage, wastewater, and water carrying solid matters</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore 50mm</p> <p>Motor Output 3.7kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: F Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table><tr><td>50Hz</td><td>60Hz</td></tr><tr><td>380V – 8.0A</td><td>220V – 13.8A</td></tr><tr><td>400V – 7.7A</td><td>380V – 7.9A</td></tr><tr><td>415V – 7.5A</td><td>440V – 6.9A</td></tr></table> <p>Power Cable Sheath: PVC Standard Length: 6m 380 to 600V supply: 1 × 4 × 2.0mm², O.D. 11.8mm 200 to 240V supply: 1 × 4 × 3.5mm², O.D. 13.9mm</p> <p>Dry Weight (excluding cable) Free Standing Type: 78kg Guide Rail Fitting Type: 74kg</p> | | 50Hz | 60Hz | 380V – 8.0A | 220V – 13.8A | 400V – 7.7A | 380V – 7.9A | 415V – 7.5A | 440V – 6.9A | <p>Impeller Vortex impeller designed for “high-gap structure,” dynamically balanced</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearings Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Faces: SiC + SiC Lower Seal Faces: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used as a “Dust Seal”, it protects the mechanical seal from abrasive particles.</p> <p>OIL LIFTER (Patented) Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1350ml</p> <p>Motor Protection Device A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.</p> |
| 50Hz | 60Hz | | | | | | | | | |
| 380V – 8.0A | 220V – 13.8A | | | | | | | | | |
| 400V – 7.7A | 380V – 7.9A | | | | | | | | | |
| 415V – 7.5A | 440V – 6.9A | | | | | | | | | |
| <p>Optional Accessory</p> <p>External Leakage Sensor</p> | | | | | | | | | | |
| TSURUMI MANUFACTURING CO., LTD. | | | | | | | | | | |



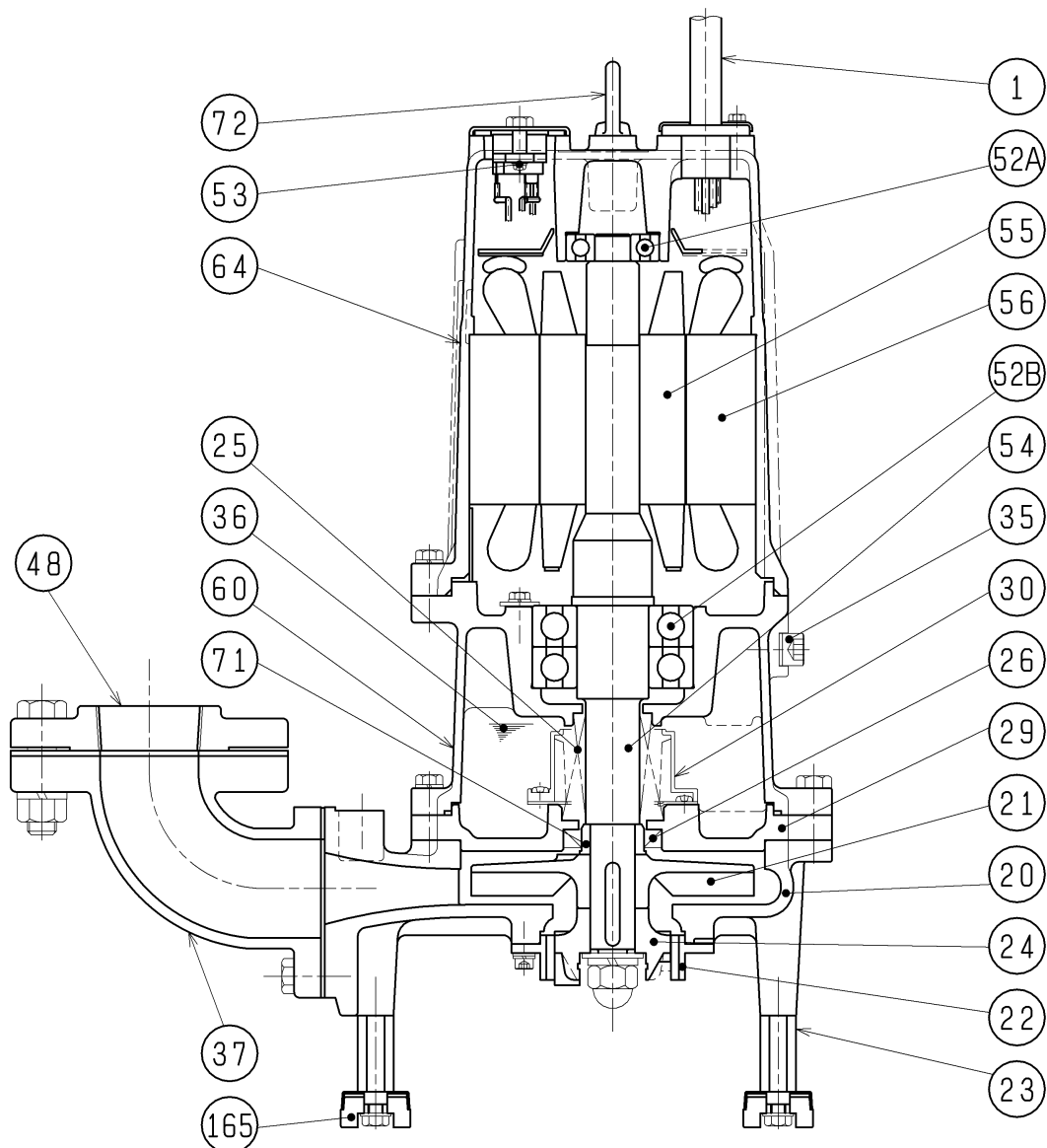
| DIMENSION DRAWING | | No. | No. |
|-----------------------------------------|--|--------------------------|-----------|
| TYPE Sewage Submersible Grinder Pump | | MODEL 50MG23.7 -53/63 | A-12161-3 |

| |
|--------------------------|
| Approximate Weight(※) |
| 78kg |
| ※excluding cable |



C.W.L.:Continuous running Water Level
L.W.L.:Lowest running Water Level

| SECTIONAL DRAWING | | No. | No. | A-12162-5 |
|-------------------|------------------------------------|-------|-----------------|-----------|
| TYPE | Sewage Submersible Grinder Pump | MODEL | 50MG23.7 -53/63 | |



REQ. SPECIFICATION

※ the wetted part

| No. | DESCRIPTION | Q'TY | MATERIAL / NOTE | No. | DESCRIPTION | Q'TY | MATERIAL / NOTE |
|-----|-------------------|------|------------------------|-----|-----------------|------|--------------------------|
| 1 | Cable | 1 | PVC Sheath | 52A | Upper Bearing | 1 | 6304ZZC3 |
| 20 | Pump Casing | 1 | Gray Iron Casting | 52B | Lower Bearing | 1 | 6308ZZD2C3 |
| 21 | Impeller | 1 | Gray Iron Casting | 53 | Motor Protector | 1 | |
| 22 | Stationary Cutter | 1 | Chromium Iron Casting | 54 | Shaft | 1 | Stainless Steel 420J2(※) |
| 23 | Stand | 3 | Stainless Steel 410 | 55 | Rotor | 1 | |
| 24 | Rotating Cutter | 1 | Chromium Iron Casting | 56 | Stator | 1 | |
| 25 | Mechanical Seal | 1 | H-30T | 60 | Bearing Housing | 1 | Gray Iron Casting |
| 26 | Oil Seal | 1 | TC355511 | 64 | Motor Frame | 1 | Gray Iron Casting |
| 29 | Oil Casing | 1 | Gray Iron Casting | 71 | Shaft Sleeve | 1 | Stainless Steel 403 |
| 30 | Oil Lifter | 1 | Plastic | 72 | Eye Bolt | 2 | Stainless Steel 304 |
| 35 | Oil Plug | 1 | Stainless Steel 304 | 165 | Rubber Foot | 3 | Nitrile Butadien Rubber |
| 36 | Lubricant | | Turbine Oil (ISO VG32) | | | | |
| 37 | Discharge Bend | 1 | Gray Iron Casting | | | | |
| 48 | Screwed Flange | 1 | Gray Iron Casting | | | | |

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