

Heavy & Medium Duty Dump Trucks & Trailers

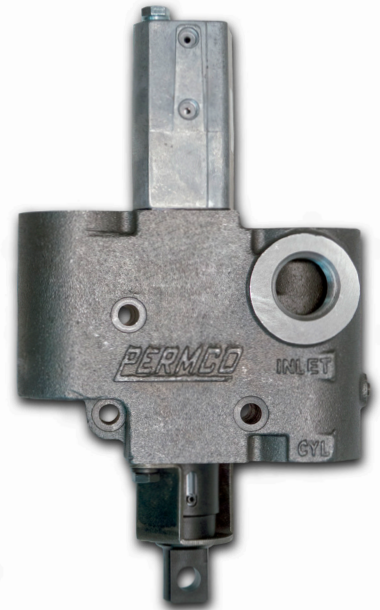
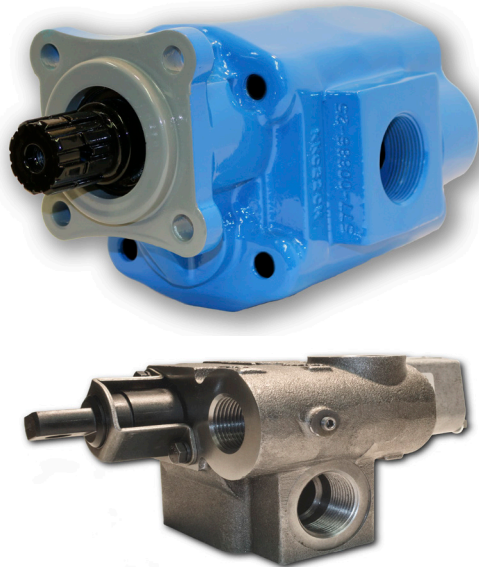
# DIN 5151 & LIL TIPPER II

Precision-Engineered Fluid Power Products

The Sensible Choice for Pumps



Dump Trucks  
Walking Floor



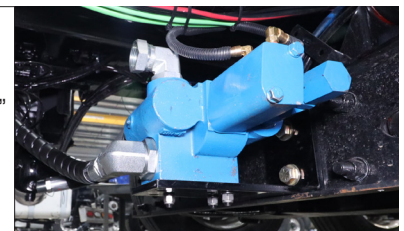
## Features

### DIN 5151

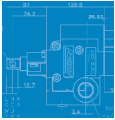
- ISO 7653 4 bolt flange mount Ø80 mm pilot
- DIN 5462 - 8 x 32 x 36 spline shaft
- Dual Ported - Standard 1-1/2" NPT rear ports and up to 1-1/2" NPT side ports
- Pressure balanced wear plates maintain high pump efficiency throughout all operating ranges
- Bi-Rotational Pump/Motor designed to fit a wide variety of applications
- Doweled and high strength cast iron construction
- High strength alloy steel gear and shaft sets
- NPT & SAE ports are available
- Cubic inch displacements from 3.86 through 7.07
- Maximum pressure up to 3000 PSI
- Speeds to 2400 RPM
- 100% factory tested

### Lil Tipper 2 Valve

- Pump and cylinder protected in the "Raise" and "Neutral" position of the spool
- Manual shift, factory installed "OE" air, or "Add-on" air shifts each with full metering capabilities
- Built-in load check maintains dump body angle and is installed in the cylinder port for superior self-cleaning
- Built-in direct acting relief valve set at factory
- SAE and NPT ports available
- Neutral lock-out safety cap for use with pull-out cable
- 100% factory tested



PERMCO



## Lil Tipper Code

Tipping Valve

**NPT** - Ports

**ORB** - Ports

**A** Air Shift

**M** Manual Shift

**TV2 - ORB - A - 1 - \*\***

### Pressure Setting

**20** 2000 psi

**25** 2500 psi

**30** 3000 psi

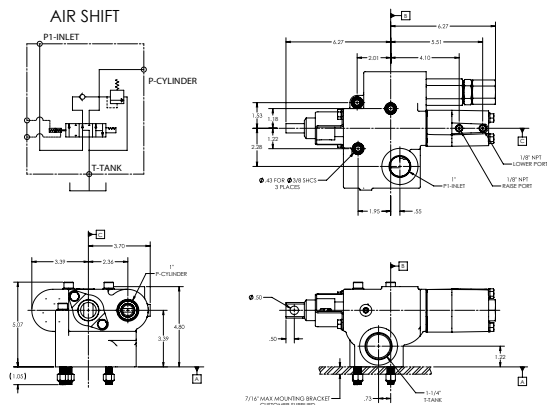
**Blank** Gemini

**1** RP-5514

**X** RP-5514-3000

**XX/XX** Gemini\*

**\*Customer must provide both lower and higher pressure relief settings**



|           |                               |
|-----------|-------------------------------|
| <b>P</b>  | Outlet (to cylinder)          |
| <b>P1</b> | Inlet (from pump)             |
| <b>T</b>  | Tank Line<br>(Return to Tank) |



## 5151 Code

### Pump

| Model #           | A    | B    | C    | Displ<br>Cu.In | Theo. GPM<br>1000 RPM | NPT Ports<br>Side Rear | Max<br>RPM* | Max<br>PSI |
|-------------------|------|------|------|----------------|-----------------------|------------------------|-------------|------------|
| P5151C551AAXE15-5 | 7.38 | 2.25 | 4.50 | 3.86           | 17                    | 1 1-1/2                | 3000        | 3000       |
| P5151C551AAXK17-5 | 7.63 | 2.50 | 4.63 | 4.50           | 19                    | 1-1/4 1-1/2            | 3000        | 3000       |
| P5151C551AAXK20-5 | 7.88 | 2.75 | 4.75 | 5.15           | 23                    | 1-1/4 1-1/2            | 3000        | 3000       |
| P5151C551AAXQ22-5 | 8.13 | 3.00 | 4.88 | 5.70           | 25                    | 1-1/2 1-1/2            | 3000        | 3000       |
| P5151C551AAXQ25-5 | 8.38 | 3.25 | 5.00 | 6.43           | 27                    | 1-1/2 1-1/2            | 3000        | 3000       |
| P5151C551AAXQ27-5 | 8.63 | 3.50 | 5.13 | 7.07           | 30                    | 1-1/2 1-1/2            | 2400        | 3000       |

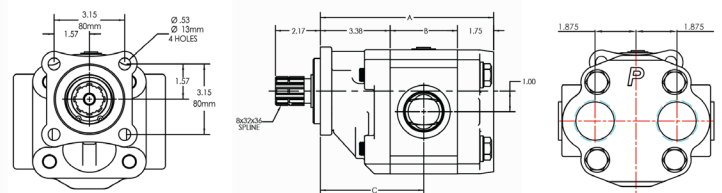
| Model #           | A    | B    | C    | Displ<br>Cu.In | Theo. GPM<br>1000 RPM | SAE Ports<br>Side Rear | Max<br>RPM* | Max<br>PSI |
|-------------------|------|------|------|----------------|-----------------------|------------------------|-------------|------------|
| P5151C551NMZE15-5 | 7.38 | 2.25 | 4.50 | 3.86           | 17                    | 1 1-1/4                | 3000        | 3000       |
| P5151C551NMZK17-5 | 7.63 | 2.50 | 4.63 | 4.50           | 19                    | 1-1/4 1-1/4            | 3000        | 3000       |
| P5151C551NMZK20-5 | 7.88 | 2.75 | 4.75 | 5.15           | 23                    | 1-1/4 1-1/4            | 3000        | 3000       |
| P5151C551NMZQ22-5 | 8.13 | 3.00 | 4.88 | 5.70           | 25                    | 1-1/2 1-1/4            | 3000        | 3000       |
| P5151C551NMZQ25-5 | 8.38 | 3.25 | 5.00 | 6.43           | 27                    | 1-1/2 1-1/4            | 3000        | 3000       |
| P5151C551NMZQ27-5 | 8.63 | 3.50 | 5.13 | 7.07           | 30                    | 1-1/2 1-1/4            | 2400        | 3000       |

\* Maximum Inlet Vacuum 5 in. Hg.

### Motor

| Model #           | A    | B    | C    | Displ<br>Cu.In | Theo. GPM<br>1000 RPM | NPT Ports<br>Side Rear | Max<br>RPM | Max<br>PSI |
|-------------------|------|------|------|----------------|-----------------------|------------------------|------------|------------|
| M5151C751AAXE15-5 | 7.38 | 2.25 | 4.51 | 3.86           | 17                    | 1 1-1/2                | 3000       | 3000       |
| M5151C751AAXK17-5 | 7.63 | 2.50 | 4.63 | 4.50           | 19                    | 1-1/4 1-1/2            | 3000       | 3000       |
| M5151C751AAXK20-5 | 7.88 | 2.75 | 4.75 | 5.15           | 23                    | 1-1/4 1-1/2            | 3000       | 3000       |
| M5151C751AAXQ22-5 | 8.13 | 3.00 | 4.88 | 5.70           | 25                    | 1-1/2 1-1/2            | 3000       | 3000       |
| M5151C751AAXQ25-5 | 8.38 | 3.25 | 5.00 | 6.43           | 27                    | 1-1/2 1-1/2            | 3000       | 3000       |
| M5151C751AAXQ27-5 | 8.63 | 3.50 | 5.12 | 7.07           | 30                    | 1-1/2 1-1/2            | 2400       | 3000       |

| Model #           | A    | B    | C    | Displ<br>Cu.In | Theo. GPM<br>1000 RPM | SAE Ports<br>Side Rear | Max<br>RPM | Max<br>PSI |
|-------------------|------|------|------|----------------|-----------------------|------------------------|------------|------------|
| M5151C751NMZE15-5 | 7.38 | 2.25 | 4.50 | 3.86           | 17                    | 1 1-1/4                | 3000       | 3000       |
| M5151C751NMZK17-5 | 7.63 | 2.50 | 4.63 | 4.50           | 19                    | 1-1/4 1-1/4            | 3000       | 3000       |
| M5151C751NMZK20-5 | 7.88 | 2.75 | 4.75 | 5.15           | 23                    | 1-1/4 1-1/4            | 3000       | 3000       |
| M5151C751NMZQ22-5 | 8.13 | 3.00 | 4.88 | 5.70           | 25                    | 1-1/2 1-1/4            | 3000       | 3000       |
| M5151C751NMZQ25-5 | 8.38 | 3.25 | 5.00 | 6.43           | 27                    | 1-1/2 1-1/4            | 3000       | 3000       |
| M5151C751NMZQ27-5 | 8.63 | 3.50 | 5.13 | 7.07           | 30                    | 1-1/2 1-1/4            | 2400       | 3000       |



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