



# Hydraulic Pump and Motor Division

## Stocking Program Catalog



Engineering Your Success.

# Vocational Truck Catalog

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### Basic Hydraulic Motor Formulas

- $T = (CIR \times PSI) / 6.28 \text{ lbs inch}$
- $T = (CIR \times PSI) / 75.36 \text{ lbs ft}$
- $CIR = (GPM \times 231) / RPM$
- $RPM = (GPM \times 231) / CIR$

### **WARNING**

**FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCT AND/ OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE**

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and / or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

# TB Series Medium Duty Power

This medium duty small frame motor incorporates many features that are included in our heavy duty motors. Design features include a high pressure shaft seal so external drains are never required, roller vane technology for automatic wear compensation, and full flow internal cooling and flushing. This is a very economical motor for most medium duty applications.



| TB Series - 2 Bolt |                    |          |      |       |       |            |                     |
|--------------------|--------------------|----------|------|-------|-------|------------|---------------------|
| Part Number        | Description        | Eaton    | CIR  | GPM   | Speed | Max Torque | Max Supply Pressure |
| TB0100AP100AAAA    | 1/2" NPT 1" Key    | 101-1027 | 6.0  | 12    | 409   | 1411 lb-in | 2750                |
| TB0195AP100AAAA    | 1/2" NPT 1" Key    | 101-1029 | 11.9 | 12-15 | 287   | 3011 lb-in | 2750                |
| TB0365AP100AAAA    | 1/2" NPT 1" Key    | 101-1032 | 22.6 | 12-15 | 151   | 3897 lb-in | 2750                |
| TB0100AS100AAAA    | 7/8" O-Ring 1" Key | 101-1035 | 6.0  | 12    | 409   | 1411 lb-in | 2750                |
| TB0195AS100AAAA    | 7/8" O-Ring 1" Key | 101-1037 | 11.9 | 12-15 | 287   | 3011 lb-in | 2750                |
| TB0365AS100AAAA    | 7/8" O-Ring 1" key | 101-1040 | 22.6 | 12-15 | 151   | 3897 lb-in | 2750                |
| TB Series - 4 Bolt |                    |          |      |       |       |            |                     |
| Part Number        | Description        | Eaton    | CIR  | GPM   | Speed | Max Torque | Max Supply Pressure |
| TB0036FP100AAAA    | 1/2" NPT 1" Key    | 101-1753 | 2.2  | 9     | 932   | 427 lb-in  | 2750                |
| TB0050FP100AAAA    | 1/2" NPT 1" Key    | 101-1001 | 3.0  | 9     | 678   | 693 lb-in  | 2750                |
| TB0065FP100AAAA    | 1/2" NPT 1" Key    | 101-1754 | 4.0  | 9     | 511   | 946 lb-in  | 2750                |
| TB0080FP100AAAA    | 1/2" NPT 1" Key    | 101-1002 | 5.0  | 9     | 409   | 1193 lb-in | 2750                |
| TB0100FP100AAAA    | 1/2" NPT 1" Key    | 101-1003 | 6.0  | 12-15 | 454   | 1411 lb-in | 2750                |
| TB0130FP100AAAA    | 1/2" NPT 1" Key    | 101-1755 | 8.0  | 12-15 | 430   | 1951 lb-in | 2750                |
| TB0165FP100AAAA    | 1/2" NPT 1" Key    | 101-1004 | 10.0 | 12-15 | 343   | 2428 lb-in | 2750                |
| TB0195FP100AAAA    | 1/2" NPT 1" Key    | 101-1005 | 11.9 | 12-15 | 287   | 3011 lb-in | 2750                |
| TB0230FP100AAAA    | 1/2" NPT 1" Key    | 101-1006 | 15.9 | 12-15 | 246   | 2797 lb-in | 2750                |
| TB0295FP100AAAA    | 1/2" NPT 1" Key    | 101-1007 | 17.9 | 12-15 | 191   | 3096 lb-in | 2750                |
| TB0365FP100AAAA    | 1/2" NPT 1" Key    | 101-1008 | 22.6 | 12-15 | 151   | 3897 lb-in | 2750                |
| TB0390FP100AAAA    | 1/2" NPT 1" Key    | 101-1556 | 24.0 | 12-15 | 143   | 3792 lb-in | 2750                |
| TB0036FS100AAAA    | 7/8" O-Ring 1" Key | 101-1749 | 2.2  | 9     | 932   | 427 lb-in  | 2750                |
| TB0050FS100AAAA    | 7/8" O-Ring 1" Key | 101-1009 | 3.0  | 9     | 678   | 693 lb-in  | 2750                |
| TB0065FS100AAAA    | 7/8" O-Ring 1" Key | 101-1750 | 4.0  | 9     | 511   | 946 lb-in  | 2750                |
| TB0080FS100AAAA    | 7/8" O-Ring 1" Key | 101-1010 | 5.0  | 9     | 409   | 1193 lb-in | 2750                |
| TB0100FS100AAAA    | 7/8" O-Ring 1" Key | 101-1011 | 6.0  | 12-15 | 454   | 1411 lb-in | 2750                |
| TB0130FS100AAAA    | 7/8" O-Ring 1" Key | 101-1751 | 8.0  | 12-15 | 430   | 1951 lb-in | 2750                |
| TB0165FS100AAAA    | 7/8" O-Ring 1" Key | 101-1012 | 10.0 | 12-15 | 343   | 2428 lb-in | 2750                |
| TB0195FS100AAAA    | 7/8" O-Ring 1" Key | 101-1013 | 11.9 | 12-15 | 287   | 3011 lb-in | 2750                |
| TB0230FS100AAAA    | 7/8" O-Ring 1" Key | 101-1014 | 15.9 | 12-15 | 246   | 2797 lb-in | 2750                |
| TB0295FS100AAAA    | 7/8" O-Ring 1" Key | 101-1015 | 17.9 | 12-15 | 191   | 3096 lb-in | 2750                |
| TB0365FS100AAAA    | 7/8" O-Ring 1" Key | 101-1016 | 22.6 | 12-15 | 151   | 3897 lb-in | 2750                |
| TB0390FS100AAAA    | 7/8" O-Ring 1" Key | 101-1564 | 24.0 | 12-15 | 143   | 3792 lb-in | 2750                |

# TE Series Heavy Duty Power In a Small Frame Motor

The TE motor has higher pressure ratings than the TB motor, for applications requiring higher torque. This motor has robust roller bearings that can withstand higher side loads. The TE Series uses high pressure shaft seals, and high flow shaft seal cooling to prevent premature wear and seal leaks.

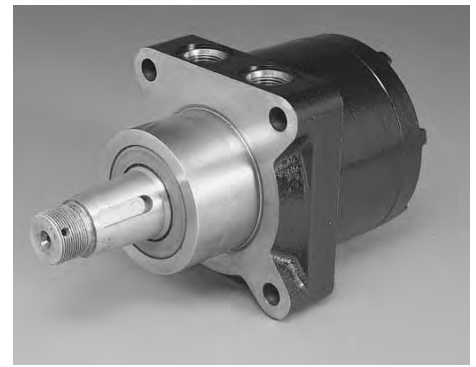


| TE Series - 2 Bolt |                    |          |      |       |       |            |                     |
|--------------------|--------------------|----------|------|-------|-------|------------|---------------------|
| Part Number        | Description        | Eaton    | CIR  | GPM   | Speed | Max Torque | Max Supply Pressure |
| TE0080AP100AAAA    | 1/2" NPT 1" Key    | 103-1026 | 5.0  | 12-15 | 695   | 1416 lb-in | 2900                |
| TE0165AP100AAAA    | 1/2" NPT 1" Key    | 103-1028 | 10.0 | 12-15 | 348   | 2744 lb-in | 2900                |
| TE0230AP100AAAA    | 1/2" NPT 1" Key    | 103-1030 | 13.9 | 15-20 | 328   | 3363 lb-in | 2900                |
| TE0045AS100AAAA    | 7/8" O-Ring 1" Key | N/A      | 2.5  | 12-15 | 1024  | 624 lb-in  | 2900                |
| TE0080AS100AAAA    | 7/8" O-Ring 1" Key | 103-1034 | 5.0  | 12-15 | 695   | 1416 lb-in | 2900                |
| TE0165AS100AAAA    | 7/8" O-Ring 1" Key | 103-1036 | 10.0 | 12-15 | 348   | 2744 lb-in | 2900                |
| TE0230AS100AAAA    | 7/8" O-Ring 1" Key | 103-1038 | 13.9 | 15-20 | 328   | 3363 lb-in | 2900                |
| TE0390AS100AAAA    | 7/8" O-Ring 1" Key | 103-1040 | 24.0 | 15-20 | 191   | 3935 lb-in | 2900                |
| TE Series - 4 Bolt |                    |          |      |       |       |            |                     |
| Part Number        | Description        | Eaton    | CIR  | GPM   | Speed | Max Torque | Max Supply Pressure |
| TE0100FP100AAAA    | 1/2" NPT 1" Key    | 103-1003 | 6.0  | 12-15 | 582   | 1682 lb-in | 2900                |
| TE0295FP100AAAA    | 1/2" NPT 1" Key    | 103-1007 | 17.9 | 15-20 | 256   | 3784 lb-in | 2900                |
| TE0100FS100AAAA    | 7/8" O-Ring 1" Key | 103-1011 | 6.0  | 12-15 | 582   | 1682 lb-in | 2900                |
| TE0295FS100AAAA    | 7/8" O-Ring 1" Key | 103-1015 | 17.9 | 15-20 | 256   | 3784 lb-in | 2900                |



# TF Series

## Heavy Duty Tough Applications



Sturdy tough construction makes Parker's TF Series large frame motors suitable for the most severe applications. The powertrain uses a unique 60:40 spline geometry for strength. All splines are constantly flushed with cool fluid for durability. Roller vanes and sealed commutation assure high volumetric efficiency, smooth low speed operation and extended life. Shaft seals can withstand full system pressure and are washed in cool fluid for long life.

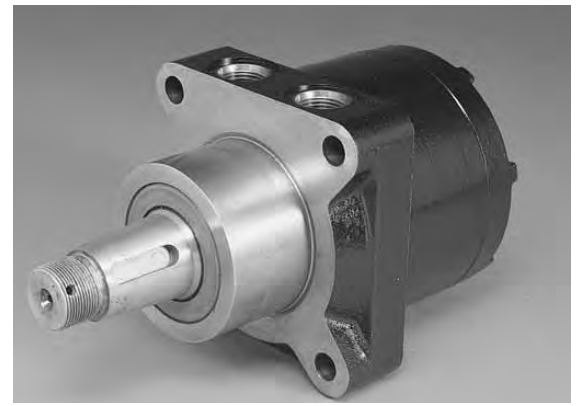
| <b>TF Series 2 Bolt</b>         |                           |              |            |            |              |                   |                            |
|---------------------------------|---------------------------|--------------|------------|------------|--------------|-------------------|----------------------------|
| <b>Part Number</b>              | <b>Description</b>        | <b>Eaton</b> | <b>CIR</b> | <b>GPM</b> | <b>Speed</b> | <b>Max Torque</b> | <b>Max Supply Pressure</b> |
| TF0080AB020AAAA                 | 7/8" O-Ring 1" Key        | 104-1001     | 4.9        | 12-15      | 693          | 1948 lb in        | 4350                       |
| TF0100AB020AAAA                 | 7/8" O-Ring 1" Key        | 104-1002     | 6.1        | 15-20      | 749          | 1746 lb in        | 4350                       |
| TF0130AB020AAAA                 | 7/8" O-Ring 1" Key        | 104-1003     | 7.8        | 15-20      | 583          | 2031 lb in        | 4350                       |
| TF0240AB020AAAA                 | 7/8" O-Ring 1" Key        | 104-1006     | 14.5       | 20-25      | 394          | 3782 lb in        | 4350                       |
| TF0080AB030AAAA                 | 7/8" O-Ring 1 1/4" Key    | 104-1022     | 4.9        | 12-15      | 693          | 1948 lb in        | 4350                       |
| TF0100AB030AAAA                 | 7/8" O-Ring 1 1/4" Key    | 104-1023     | 6.1        | 15-20      | 749          | 1746 lb in        | 4350                       |
| TF0130AB030AAAA                 | 7/8" O-Ring 1 1/4" Key    | 104-1024     | 7.8        | 15-20      | 583          | 2031 lb in        | 4350                       |
| TF0170AB030AAAA                 | 7/8" O-Ring 1 1/4" Key    | 104-1025     | 10.3       | 15-20      | 444          | 2808 lb in        | 4350                       |
| TF0195AB030AAAA                 | 7/8" O-Ring 1 1/4" Key    | 104-1026     | 12.0       | 15-20      | 381          | 3222 lb in        | 4350                       |
| TF0240AB030AAAA                 | 7/8" O-Ring 1 1/4" Key    | 104-1027     | 14.5       | 20-25      | 394          | 3782 lb in        | 4350                       |
| TF0360AB030AAAA                 | 7/8" O-Ring 1 1/4" Key    | 104-1028     | 22.2       | 20-25      | 258          | 5257 lb in        | 4350                       |
| <b>TF Series 4 Bolt Magneto</b> |                           |              |            |            |              |                   |                            |
| <b>Part Number</b>              | <b>Description</b>        | <b>Eaton</b> | <b>CIR</b> | <b>GPM</b> | <b>Speed</b> | <b>Max Torque</b> | <b>Max Supply Pressure</b> |
| TF0140MS010AAAA                 | 7/8" O-Ring 1" 6 B Spline | N/A          | 8.6        | 15-20      | 530          | 2248 lb in        | 4350                       |
| TF0170MS010AAAA                 | 7/8" O-Ring 1" 6 B Spline | N/A          | 10.3       | 15-20      | 444          | 2808 lb in        | 4350                       |
| TF0195MS010AAAA                 | 7/8" O-Ring 1" 6 B Spline | N/A          | 12.0       | 15-20      | 381          | 3222 lb in        | 4350                       |
| TF0280MS010AAAA                 | 7/8" O-Ring 1" 6 B Spline | N/A          | 17.1       | 20-25      | 334          | 4502 lb in        | 4350                       |
| TF0360MS010AAAA                 | 7/8" O-Ring 1" 6 B Spline | N/A          | 22.2       | 20-25      | 258          | 5257 lb in        | 4350                       |
| TF0475MS010AAAA                 | 7/8" O-Ring 1" 6 B Spline | N/A          | 29.1       | 20-25      | 195          | 6027 lb in        | 4350                       |

# TG Series

## Exceptional Strength

## High Performance Motor

The heart of Parker's TG Series large frame powertrain, the torque link, is an extra heavy duty part that includes unique 60:40 spline geometry. Rugged construction throughout allows the transmission of over 13,000 lb-in of torque. The entire powertrain is continually washed in cool, high flow fluid to assure long life. Roller vanes and sealed commutator maintain high efficiency and provide smooth low speed performance.



| TG Series 4 Bolt Magneto |  |       |      |       |       |            |                     |
|--------------------------|--|-------|------|-------|-------|------------|---------------------|
| Part Number              | Description                            | Eaton | CIR  | GPM   | Speed | Max Torque | Max Supply Pressure |
| TG0140MS030AAAA          | 7/8" O-Ring<br>1 1/4" Keyed Shaft      | NA    | 8.6  | 20-25 | 660   | 3455 lb in | 4350                |
| TG0195MS030AAAA          | 7/8" O-Ring<br>1 1/4" Keyed Shaft      | NA    | 11.9 | 20-25 | 477   | 4919 lb in | 4350                |
| TG0280MS030AAAA          | 7/8" O-Ring<br>1 1/4" Keyed Shaft      | NA    | 17.1 | 20-25 | 334   | 7044 lb in | 4350                |
| TG0335MS030AAAA          | 7/8" O-Ring<br>1 1/4" Keyed Shaft      | NA    | 20.6 | 20-25 | 277   | 8533 lb in | 4350                |
| TG0475MS030AAAA          | 7/8" O-Ring<br>1 1/4" Keyed Shaft      | NA    | 29.1 | 20-30 | 237   | 7853 lb in | 4350                |
| TG0785MS030AAAA          | 7/8" O-Ring<br>1 1/4" Keyed Shaft      | NA    | 48.0 | 20-30 | 143   | 9239 lb in | 4350                |
| TG0140MS050AAAA          | 7/8" O-Ring<br>1 1/4" Splined          | NA    | 8.6  | 20-25 | 660   | 3455 lb in | 4350                |
| TG0195MS050AAAA          | 7/8" O-Ring<br>1 1/4" Splined          | NA    | 11.9 | 20-25 | 477   | 4919 lb in | 4350                |
| TG0280MS050AAAA          | 7/8" O-Ring<br>1 1/4" Splined          | NA    | 17.1 | 20-25 | 334   | 7044 lb in | 4350                |
| TG0335MS050AAAA          | 7/8" O-Ring<br>1 1/4" Splined          | NA    | 20.6 | 20-25 | 277   | 8533 lb in | 4350                |
| TG0475MS050AAAA          | 7/8" O-Ring<br>1 1/4" Splined          | NA    | 29.1 | 20-30 | 237   | 7853 lb in | 4350                |
| TG0785MS050AAAA          | 7/8" O-Ring<br>1 1/4" Splined          | NA    | 48.0 | 20-30 | 143   | 9239 lb in | 4350                |
| TG0195MS051AAAA          | 7/8" O-Ring<br>1 1/4" Splined /<br>Rev | NA    | 11.9 | 20-25 | 477   | 4919 lb in | 4350                |

# TK Series

## Exceptional Strength & Durability

### High Performance Motor



The heart of Parker’s TK Series powertrain, the torque link, is an extra heavy duty part that includes unique 60:40 spline geometry. Rugged construction throughout allows the transmission of over 23,000 lb-in of torque. The entire powertrain is continually washed in cool, high flow fluid to assure long life. Roller vanes and sealed commutator maintain high efficiency and provide smooth low speed performance.

| TK Series       |                          |          |      |     |       |             |                     |
|-----------------|--------------------------|----------|------|-----|-------|-------------|---------------------|
| Part Number     | Description              | Eaton    | CIR  | GPM | Speed | Max Torque  | Max Supply Pressure |
| TK0250K5320AAAA | 1" O- Ring<br>1 1/2" Key | 112-1065 | 15.3 | 30  | 523   | 7204 lb in  | 4750                |
| TK0250K5360AAAA | 1" O-Ring<br>1 1/2" 17 T | 112-1059 | 15.3 | 30  | 523   | 7204 lb in  | 4750                |
| TK0315K5360AAAA | 1" O-Ring<br>1 1/2" 17 T | 109-1283 | 19.2 | 30  | 413   | 9105 lb in  | 4750                |
| TK0400K5360AAAA | 1" O-Ring<br>1 1/2" 17 T | 112-1061 | 24.4 | 30  | 373   | 10201 lb in | 4750                |
| TK0500K5360AAAA | 1" O-Ring<br>1 1/2" 17 T | 112-1062 | 30.5 | 30  | 298   | 12736 lb in | 4750                |

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