Chelsea[®] 249 Series

249 Series for Ford Super Duty Featuring the Patented Chelsea Noise Suppression System



Overview:

Parker Chelsea makes PTO installation simpler, quieter and more cost-effective with its 249 Series PTO. The patented concept reduces torsional noise levels that are common on PTO applications for these trucks. A wide selection of pump sizes are available to provide optimum flow rates. The 249 Series also provides ease of installation through a single hose connection and an integrated cartridge valve and pressure switch helping to reduce installation time. Chelsea robust design makes the 249 the best choice for any application.

- Aerial
- Tow & Recovery
- Fire & Rescue
- Water Drilling

Contact Information:

Parker Hannifin Corporation **Chelsea Products Division** 8225 Hacks Cross Road Olive Branch, MS 38654 USA

Phone: 1-888-PH4-TRUK (1-888-744-8785) Fax: 1-662-895-1069 chelseacustserv@parker.com

www.parker.com/chelsea





Product Features and Benefits:

- Noise Suppression System –
 Provides quiet PTO applications
 on Ford Super Duty Trucks
 (Patent #9,494,227 B2)
- Smart Start Available Shock load dampening feature to protect driven equipment
- Single Hose connection and Integrated Actuation Valve – Single hose simplifies installation and reduces installation time along with eliminating leak paths
- Intermittent Torque Rating of 200 Ibs-ft – 58 HP @ 1200 engine RPM
- Pump flows up to 25.1 GPM at 1200 Engine RPM – Standard SAE flanges and shafts allow for a wider variety of flows and pressures
- **Simple –** PTO, pump, wiring harness and shift kits available under one part number and package
- **Two Year Warranty** Greater bearing capacity, larger gear width and greater clutch engagement surface provide a robust design

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249 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA



FORMULAS:

09

11

Order

Code w/

PTO

15

GPM = Cu. In. x .004329 = G/Rev x 1488 RPMs x .90 efficiency HP = (GPM x Max PSI) / 1714

Torque = (HP x 5252) / 1488 RPMs

TorgShift Automatic Transmission.

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Supersedes HY25-0176-B1/US March 2020 HY25-0176-B1/US November 2020

3000

3000

Pump

2800

Max Speed RPM

2016

2016

Engine (B)

2016

21.1

24.2

Max Pump

Flow GPM

28.5



CGP-P31B094-5AG

CGP-P31B107-5AG

Chelsea Pump Model

CGP16-150A-2D1

12.58

14.38

GPM (A)

16.99

Chelsea P16 Series Pump Specs for 4 x 2 Vehicles Only (7/8" - 13 Tooth Pump Spline – XP Output)

2.17

2.48

Displacement

in³/rev

2.93

21.3

21.0

Pump (A)

НP

29.7

(B) Max Engine Speed = (Max Pump Speed) / (1.24) for PTO Ratio Increase. Max Speed determined by Max PTO output speed of 2500.
(C) For Pump Codes 61, 71, 82 & 87 - 45 degree fittings are required to connect hydraulic hoses for clearance. Order Kit number 329667X
CAUTION: 249 Gear Pump Options: The PTO drive gear delivers up to 250 Lbs. ft. torque to the aftermarket PTO, and can manage the heat of 60 HP continuously. Higher horsepower can be delivered, but for shorter durations depending on the amount of power required. Ref: Ford Body Builders Manual;

(A) GPM & Pump Input HP @ 1200 Engine RPM (1488 PTO Output RPM - 124% Ratio) & Continuous Pressure Rating with 90% efficiency rating considered.

75.1

74.0

Torque (A)

ft-lbs

104.9

2900

2500

3000

2900

2500

3000

Pressure PSI

Intermittent Continuous

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