



Chelsea 249V Sales Manual

Pro Gear Chelsea 249V PTO Sales Manual to assist with technical information for your Chelsea Power Take Off unit.

If you need any assistance identifying the correct Power Take Off unit for your truck and equipment, contact your Chelsea replacement part specialists at Pro Gear and Transmission.

Pro Gear stocks every part for your Parker Chelsea PTO including: PTO housings, mounts, drive-shafts, gears, bearings, gaskets, cable shift cover assembly, post and plate assembly, brackets, stud kits, seal kits, lever control assembly, air shift cover assembly, direct mount pump conversion kits, stud kits including English and metric references, CAT D&H parts and much more.

Pro Gear Transmission has same day shipping and 1000's of products in stock and ready to ship internationally for your next project.

For parts or service contact the Chelsea specialists at Pro Gear & Transmission, Inc.

1 (877) 776-4600
(407) 872-1901
parts@eprogear.com

Chelsea® 249V Series

Powershift Hydraulic 6-Bolt



Overview:

Chelsea's NEW 249 Series features a Patent Pending Noise Suppression System. This unique design concept will provide you with a PTO that is best in class for reduced noise when installed on the TorqueShift™ 6 Automatic Transmission with the Engine Driven Gear. The new concept reduces the torsional noise levels that are found on most PTO applications for these trucks. The combination of the Chelsea 249 Series and the Parker T6C vane pump will provide you with greater flows and pressures than were previously available.

- Service Trucks
- Tow and recovery
- Initial Response Vehicles
- Truck Mounted Cranes



Contact Information:

Parker Hannifin Corporation
Chelsea Products Europe

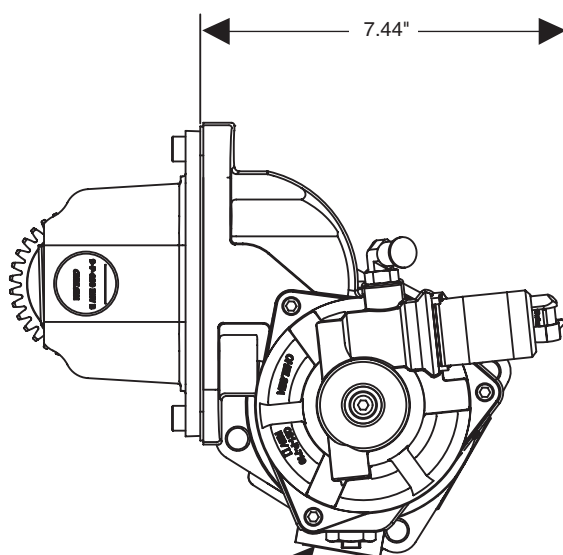
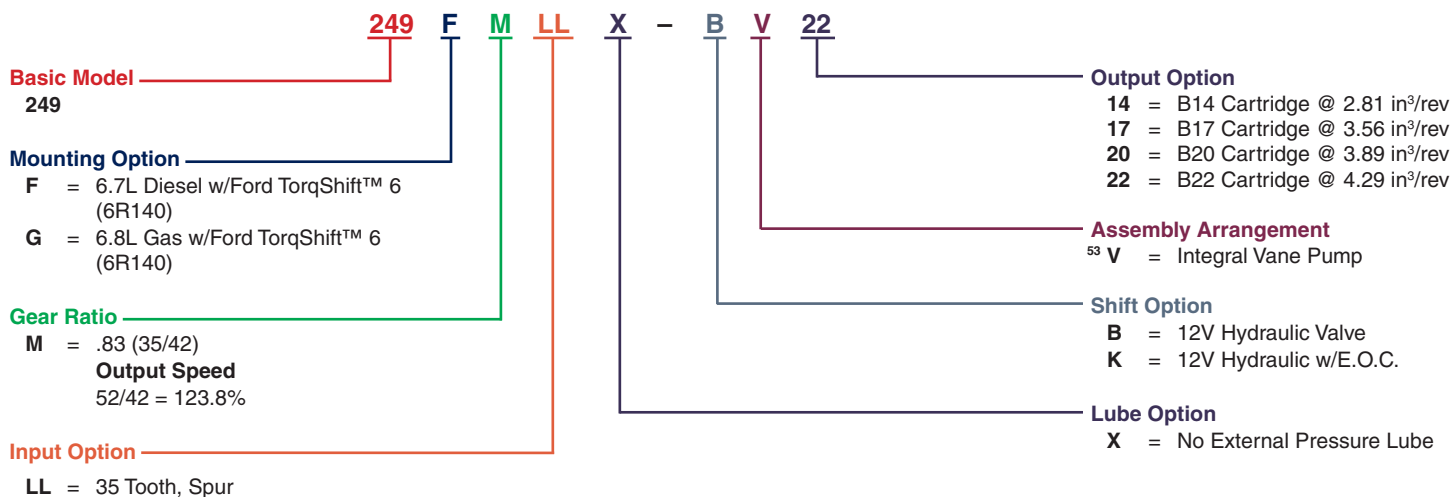
Product Features and Benefits:

- **Two Year Warranty** – Greater Bearing Capacity. Larger gear width and greater clutch engagement surface provide a robust design.
- **Pump flows up to 20 GPM at 1000 Engine RPM** – Integrated design provides you maximum power in a small package.
- **Simplified Ordering** – PTO, pump, wiring harness and shift kits available under one part number and package.
- **Noise Suppression System** – Provides quiet PTO applications on your Ford Super Duty.
- **No special installation tools to purchase** – Eliminates costs and saves time.
- **Single Hose connection and Integrated Actuation Valve** – Single hose for the PTO simplifies installation and reduces installation time along with eliminating leak paths.
- **Intermittent Torque Rating of 200 Ft. Lbs.** – 58 Horse Power @ 1200 Engine.

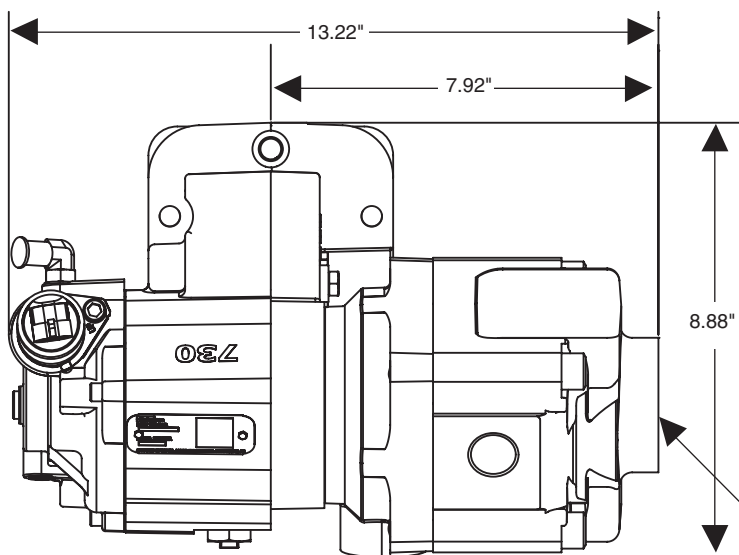


ENGINEERING YOUR SUCCESS.

249V SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA



Pressure Port
SAE 16 O-Ring Boss
1-5/16" - 12 UN Thread



Suction Port
SAE 24 O-Ring Boss
1-7/8" - 12 UN Thread

Chelsea 249V Integral Vane Pump Data for 4 x 2 or 4 x 4 Vehicles

Option Code w/ PTO	Chelsea Pump Cartridge Number	Displacement in³/rev	GPM (D)	Pump (D) HP	Torque (D) Ft. Lbs.	Pressure PSI		Pump Speed RPM		Max Speed RPM Engine (B)
						Intermittent	Continuous	Min.	Max	
14	380418-14	2.81	15.08	19.6	83.02	4000	3500	400	2800	2258
17	380418-17	3.56	19.11	24.8	105.4	4000	3500	400	2800	2258
20	380418-20	3.89	20.88	27.1	114.8	4000	3500	400	2800	2258
22	380418-22	4.29	23.03	29.9	126.4	4000	3500	400	2800	2258

(B) Max Engine Speed = (Max Pump Speed) / (1.24) for PTO Ratio Increase

(D) GPM & Pump Input HP @ 1000 Engine RPM & 1240 PTO Output Shaft RPM & 2000 PSI

CAUTION: 249V Pump Options: "The PTO drive gear delivers up to 250 Lbs. ft. torque to the aftermarket PTO, and can manage the heat of 40 HP continuously. Higher horsepower can be delivered, but for shorter durations depending on the amount of power required." Ref: Ford Body Builders Manual; TorqShift Automatic Transmission.

NOTE: Refer to Chelsea Owner's Manual HY25-1249-M1/US for complete vane pump information.