

Chelsea® 248 Series

248 Series for Ford Super Duty



Overview:

The 248 Series Power Take-Off (P.T.O.) is specifically designed for Ford Super Duty Trucks with Ford's new six (6) speed "TorqShift 6" transmission. This new Ford Automatic Transmission features a P.T.O. transmission gear which is located in front of the transmission torque converter. The engine driven (live drive) P.T.O. gear now provides you with continuous power to the P.T.O. and opens up applications that were not available when the P.T.O. gear was behind the torque converter. Chelsea engineering has worked with Ford engineering to provide you with the P.T.O. that will meet all your application requirements with P.T.O./Pump options.



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Product Features and Benefits:

- **Simpler P.T.O. Installation on 4 x 4 and 4 x 2 Models –** Reduces installation time and more cost effective.
- **Torque Rating up to 200 Lbs. ft. of Torque –** Coverage for most application requirements.
- **Large Selection of Pumps –** Provides maximum clearance for your tough applications. Flows from 1.9 gpm to 37.2 gpm.
- **P.T.O. Output Speed of 124% of Engine –** Allows for wide coverage of applications.
- **Single Hose Connection and Integrated Cartridge Valve –** Chelsea set these industry standards with the 247 Series and continues these ease of installation features with the 248 Series.
- **Current Outputs –** "XD" 1.25" Round w/Keyed Shaft, "XE" SAE "A" 2-Bolt .625" – 9 Tooth, "XP" SAE "A" 2-Bolt .875" – 13 Tooth and "AD" SAE "A" .750" – 11 Tooth
- **For More Information –** Contact Chelsea at 1-888-PH4-TRUK (1-888-744-8785).



ENGINEERING YOUR SUCCESS.

TORQSHIFT 6 (Ford Super Duty MY2011 and Later)

LEFT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 06-Bolt Opening Gear FORWARD of Centerline

52 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

3.4550" (87.7640MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - POWERSHIFT (HYDRAULIC)

248FMLLX-*2 (A) (1) 200	Opp	124	Furnished												
248FMLLX-*4 (B) (1) 200	Opp	124	Furnished												

Chelsea CGP-P11 Series Pump Specifications for 4x4 or 4x2 Vehicles (3/4" - 11 Tooth Pump Spline)

Order Code w/ PTO (3)	Chelsea Pump Model	Displacement in ³ /rev	GPM (1)	Pump (1)		Torque (1) Lbs.-ft.	Pressure PSI		Max Speed RPM		Max Pump Flow GPM
				HP			Intermittent	Continuous	Pump	Engine (2)	
16	CGP-P11A016-5GC	0.37	1.99	4.2	17.8	3990	3625	3500	2823	5.6	
26	CGP-P11A026-5GC	0.61	3.27	6.9	29.3	3990	3625	3400	2742	9.0	
32	CGP-P11A032-5GC	0.73	3.92	8.3	35.1	3990	3625	2500	2016	7.9	
37	CGP-P11A037-5GC	0.85	4.56	9.6	40.9	3990	3625	2500	2016	9.2	
42	CGP-P11A042-5GC	0.98	5.26	11.1	47.1	3990	3625	2100	1694	8.9	
55	CGP-P11A055-5GC	1.28	6.87	13.7	57.9	3480	3410	1600	1290	8.9	
61	CGP-P11A061-5GE	1.40	7.52	14.3	60.6	3410	3265	2750	2218	16.7	
71	CGP-P11A071-5GE	1.65	8.86	14.2	60.3	2900	2755	2350	1895	16.8	
82	CGP-P11A082-5GE	1.89	10.15	14.2	60.0	2465	2395	2100	1694	17.2	
87	CGP-P11A087-5GE	2.01	10.79	14.2	60.0	2320	2250	2000	1613	17.4	

Chelsea PGP-315 Series Pump Specifications for 4x2 Vehicles Only (3/4" - 11 Tooth Pump Spline)

Order Code w/ PTO	Chelsea Pump Model	Displacement in ³ /rev	GPM (1)	Pump (1)		Torque (1) Lbs.-ft.	Pressure PSI		Max Speed RPM		Max Pump Flow GPM
				HP			Intermittent	Continuous	Pump	Engine (2)	
08	CGP-P31B081-5AG	1.86	9.98	19.2	81.4	3300	3300	3000	2419	24.2	
09	CGP-P31B094-5AG	2.17	11.65	19.7	83.5	2900	2900	3000	2419	28.2	
11	CGP-P31B107-5AG	2.48	13.31	19.4	82.2	2500	2500	3000	2419	32.2	

Chelsea P16 Series Pump Specifications for 4x2 Vehicles Only (7/8" - 13 Tooth Pump Spline)

Order Code w/ PTO	Chelsea Pump Model	Displacement in ³ /rev	GPM (1)	Pump (1)		Torque (1) Lbs.-ft.	Pressure PSI		Max Speed RPM		Max Pump Flow GPM
				HP			Intermittent	Continuous	Pump	Engine (2)	
15	P16-150A-2D1	2.93	15.73	27.5	116.6	3000	3000	2800	2258	35.5	
18	P16-180A-2D1	3.51	18.85	24.2	102.5	2200	2200	2500	2016	38.0	
20	P16-200A-2D1	3.90	20.95	24.4	103.5	2000	2000	2200	1774	37.2	

(1) GPM & Pump Input HP @ 1000 Engine RPM & 1240 P.T.O. Output Shaft RPM & Continuous Pressure Rating

(2) Max Engine Speed = (Max Pump Speed) / (1.24) for P.T.O. Ratio Increase

(3) For Pump Codes 61, 71, 82 & 87- 45 degree fittings are required to connect hydraulic hoses for clearance. Order Kit number 329667X

CAUTION: Mobile and Stationary Mode Operations are Supported. The Maximum Load (Torque) Allowable for Mobile Mode is 150 Ft.lbs at the Transmission P.T.O. Gear and 120 Ft.lbs at the P.T.O. Output. If the P.T.O. Feature is Used for Extended Periods of Time Without Vehicle Movement it is Recommended to Switch to Stationary Mode. In Stationary Mode Maximum Load (Torque) is 250 Ft.lbs at the Transmission P.T.O. Gear and 200 Ft.lbs at the P.T.O. Output.

NOTE (A): 248FMLLX-*2 -- 4 x 2 applications, all output options and all pumps listed in the pump chart are available.

NOTE (B): 248FMLLX-*4 -- 4 x 4 applications only and will come with a modified PGP-P11 (CGP-P11) pump with the P.T.O. from the factory when one of the following output option codes is ordered; 16,26,32,37,42,55,61,71 (See Pump Chart). Or one of the following output shafts "XD", "XE", "XP" or "AD".

NOTE: Ford provides an option for the use of one of the "Upfitter" Switches to be used as a P.T.O. switch. Chelsea does not recommend the use of the UNPROTECTED switch for P.T.O. function, but if required, contact Chelsea Technical Services for assistance. (662-895-1052)

