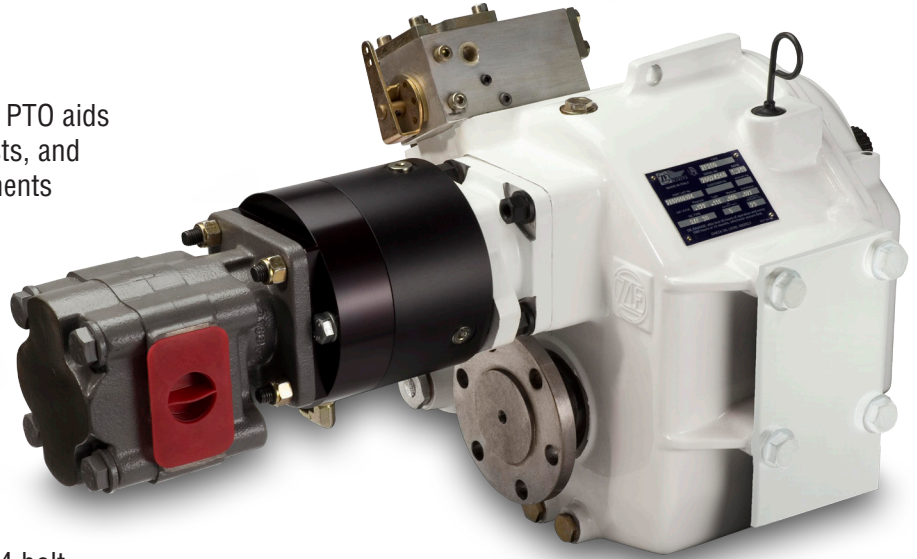


New! Logan Direct Drive PTO's for your Twin Disc® or ZF® Marine Transmissions

Features:

- Reduces fuel costs and emissions: The Logan PTO aids in the reduction of emissions, energy, fuel costs, and wear and tear on pumps and auxiliary attachments
- The low-profile, compact Logan PTO design is suitable for workboats, fishing boats, and pleasure craft
- Hydraulic actuation – integrates into existing hydraulic system
- Field retrofits with existing Twin Disc® and ZF® Transmissions
- Available for the SAE J744 mounts: 2 bolt B / 4 bolt B / 4 bolt C applications



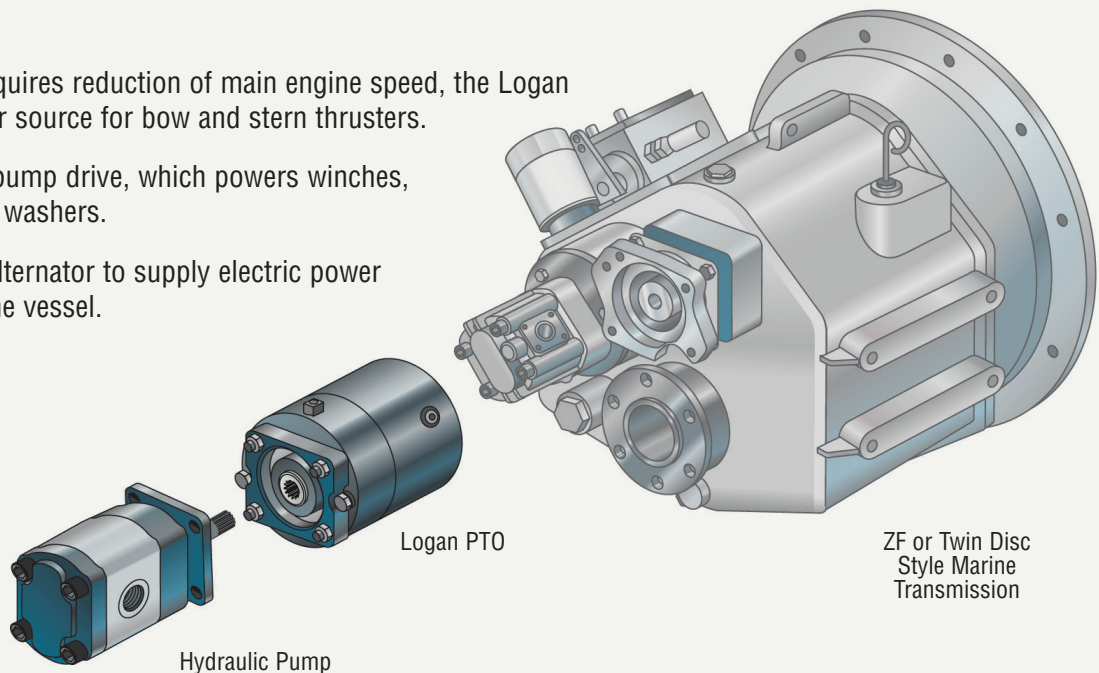
View of ZF 280 transmission equipped with a Logan SBB-2000 clutch mounted between the live PTO and 30 gallon per minute pump.

Advantages:

- During Maneuvering – which requires reduction of main engine speed, the Logan PTO is used as a separate power source for bow and stern thrusters.
- The PTO directly connects to a pump drive, which powers winches, reels, hoists, and deck pressure washers.
- The PTO can be coupled to an alternator to supply electric power to other power consumers on the vessel.



Manifolds: Logan offers fluid and air actuated valve manifolds complete with gauge and pressure switch to ensure reliable and accurate engagement of the Logan PTO



Logan PTO

Hydraulic Pump

ZF or Twin Disc
Style Marine
Transmission

Made in Cleveland, Ohio U.S.A.

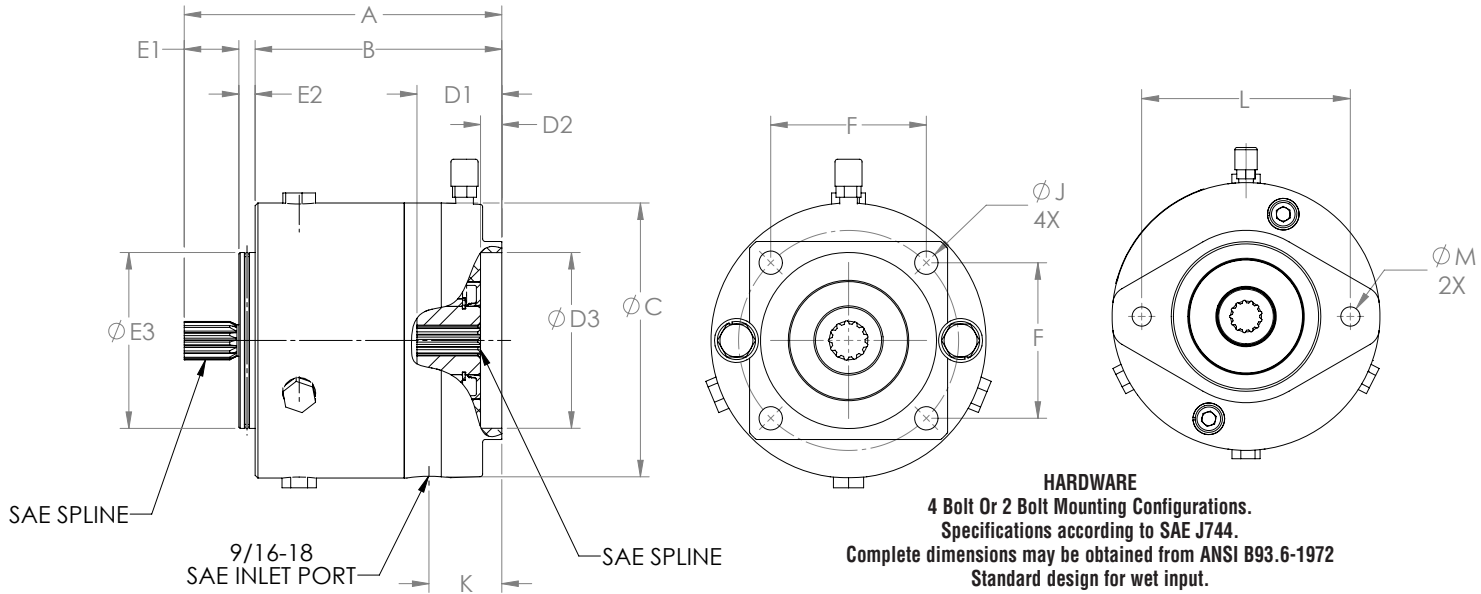


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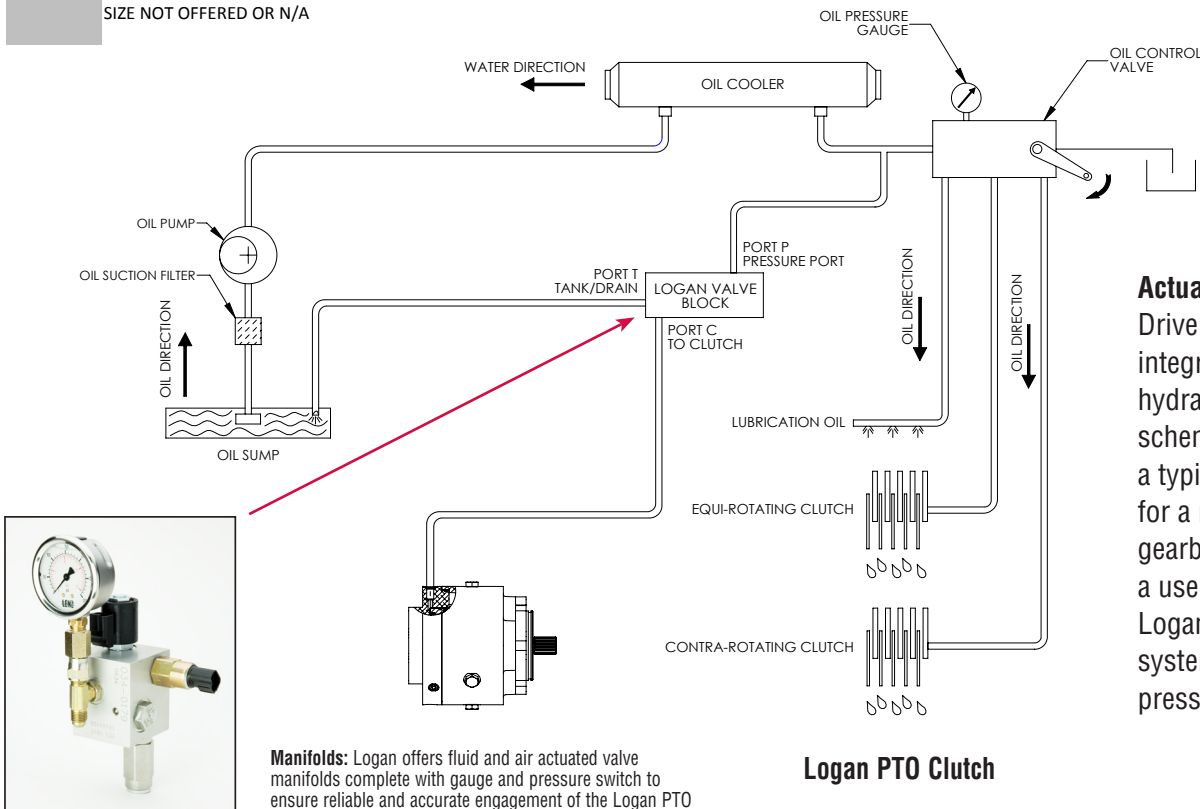


Direct Drive PTO 200/305/400 Series Technical Specifications



DIMENSIONAL DATA															
ENGLISH	DIMENSIONS IN INCHES														
PTO200	4 Bolt B	7.22	5.61	6.25	1.44	0.49	4.002	1.25	0.37	3.996	3.536	0.53	0.53		
PTO350	2 Bolt B	7.92	6.30	7.38	1.44	0.49	4.002	1.25	0.37	3.996				5.75	0.53
PTO400	4 Bolt C	8.80	6.62	7.59	2.18	0.53	5.002	1.68	0.50	4.996	4.508	0.53	0.53		
SIZE		A	B	ØC	D1	D2	ØD3	E1	E2	ØE3	F	ØG	ØJ	L	ØM
PTO200	4 Bolt B	183.4	142.5	158.8	36.6	12.3	101.65	31.8	9.4	101.5	89.8	13.5	13.5		
PTO350	2 Bolt B	201.2	159.9	187.5	36.6	12.3	101.65	31.8	9.4	101.5				146.1	13.5
PTO400	4 Bolt C	223.52	168.1	192.8	55.4	13.5	127.05	42.7	12.7	126.9	114.5	13.5	13.5		
METRIC	DIMENSIONS IN MILLIMETERS														

SIZE NOT OFFERED OR N/A



Actuation: Logan Direct Drive PTO's can easily be integrated into your existing hydraulic system. The schematic to the left outlines a typical hydraulic circuit for a marine transmission gearbox, and shows where a user may incorporate a Logan manifold into the system to control hydraulic pressure to the Logan PTO.

Logan PTO Clutch