



# CENTRALIZERS AND COUPLING

Couplings reduce operating costs of progressing cavity pumped wells. The PL5 centralizer reduces rod and tubing wear, work over frequency, lifting costs and maintenance. PL5 centralizers are field replaceable and available with high temperature rotor materials rated to 218°C. Available in a Spin-Through or Standard design.



## ToughTorq PL5 Spin - Through Coupling

ROD SIZE (IN.)	TUBING SIZE (IN.)	ROTOR DIAMETER (IN.)	FLOW AREA A (IN.)		REQUIRED COUPLING	MAXIMUM OPERATING TORQUE (LB-FT)		ASSOCIATED AXIAL LOAD (LB)
			MIN	MAX		HIGH STRENGTH COUPLING	REGULAR COUPLING	
7/8" (22 mm)	2-3/8" (60 mm)	1.86 (47 mm)	0.34 (217 mm)	0.87 (561 mm)	SLIM HOLE ONLY	1,200 (1,625 N-m)	875 (1,185 N-m)	30,000 (13,600 kg)
	2-7/8" (73 mm)	2.29 (58 mm)	1.08 (700 mm)	1.53 (985 mm)	SLIM HOLE OR FULL SIZE			
	3-1/2" (89 mm)	2.82 (71 mm)	2.57 (1658 mm)	3.26 (2103 mm)	SLIM HOLE OR FULL SIZE			
1" (25 mm)	2-7/8" (73 mm)	2.27 (58 mm)	0.81 (522 mm)	1.25 (806 mm)	SLIM HOLE ONLY	2,500 (3,390 N-m)	2000 (2,710 N-m)	40,000 (18,140 kg)
	3-1/2" (89 mm)	2.82 (71 mm)	1.75 (1130 mm)	2.44 (1574 mm)	SLIM HOLE OR FULL SIZE			
	4-1/2" (114 mm)	3.21 (82 mm)	2.41 (1557 mm)	6.48 (4181 mm)	SLIM HOLE OR FULL SIZE			
1-1/8" (29 mm)	3-1/2" (89 mm)	2.80 (71 mm)	1.75 (1130 mm)	2.44 (1574 mm)	SLIM HOLE OR FULL SIZE	3,750 (5,080 N-m)	2,900 (3,930 N-m)	50,000 (22,680 kg)
	4-1/2" (114)	3.21 (82 mm)	2.41 (1557 mm)	6.48 (4181 mm)				

## PL5 Centralizing Couplings

MAXIMUM TORQUE (LB-FT)	REQUIRED COUPLING (FULL SIZE)	PIN SIZE (IN.)	TUBING SIZE (IN.)	ROTOR DIAMETER D (IN.)	FLOW AREA A (SQ. IN.)	
					MIN	MAX
275	5/8" Reg	5/8"	2-3/8"	1.86	0.68	1.22
470			2-3/8"	1.86	0.34	0.87
470	3/4" Reg	3/4"	2-7/8"	2.29	1.08	1.52
470			3-1/2"	2.28	2.57	3.26
750	7/8" Reg	7/8"	2-7/8"	2.27	0.81	1.25
750			3-1/2"	2.82	1.75	2.44
1000	1" Reg	1"	2-7/8"	2.27	0.58	1.02
1000			3-1/2"	2.80	1.75	2.99
1000			4-1/2"	3.21	2.41	6.47
1200	1-1/8" Reg	1-1/8"	3-1/2"	2.82	1.75	2.99
1200			4-1/2"	3.21	2.41	6.47



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## MANTL COATED ROD COUPLING

MANTL manufactures its own line of coated couplings for improved corrosion and wear resistance. They are available in both 7/8" Regular and 1" Slimhole sizes.

*7/8" Regular, Coated  
1" Slimhole, Coated*



## SPIN-THRU ROD GUIDE

### FEATURES & BENEFITS

- Unique Spin-Thru design reduces hydraulic resistance and mechanical friction so primary drives operate more efficiently and with less power
- Ultra-High Molecular Weight Polyethylene (UHMW PE) guide for extremely durable construction
- Fin design provides less pressure drop
- Lower torque means less power required to operate the PC pump drive



## PCT GUIDE

- Protects Rod Body
- Protects Coupling
- Centralizes Rods
- Assists Fluid Lift
- Reduces Harmonics



Sizes: 1 1/4", 1" and 7/8" Rods  
2 7/8" and 3 1/2" Tubing  
Material: AUM material  
designed for PC application

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