PCP 278 - 7-1800 EP

Pump Specs	Metric System	Imperial System
Pump Model	7-1800	
Pump Pressure Rating	18000 kPa	2611 psi
Pump Nominal Capacity – per 100 RPM	7 m³/day	44 bbl./day
Minimum Speed Range - recommended	50 - 75 RPM	
Maximum Speed Range - recommended	450 - 500 RPM	
Stator Details	**Metric System**	**Imperial System**
Stator Tube Max. O.D. (Outside Diameter)	79.4 mm	3.125 in.
Stator Assembly Max. O.D. (coupling)	93.17 mm	3.668 in.
Minimum Casing Drift Diameter - recommended	100.60 mm	3.96 in.
Stator Transition Joint Min ID - recommended	52.00 mm	2.05 in.
Stator Eccentricity - E	4.40 mm	0.175 in
Stator Pitch	95.30 mm	3.752 in
Stator Length	3.429 m	11.250 ft.
Stator Weight	55.87 kg	123.06 lbs.
Stator Connection Top (Discharge) – Default | *Optional*	2-7/8" EUE Pin	*2-3/8 EUE Box Weld.*
Stator Connection Bottom (Intake) – Default | *Optional*	2-7/8" EUE Pin	*2-3/8 EUE Box Weld.*
Stator Material	Carbon Steel – C1026 / ST52 / S355GT	
Stator Material Yield Strength / Tensile Strength	517 / 586 MPa	75,000 / 85,000 psi
Stator Elastomer Options	HN2; MN1 **	
Rotor Details	**Metric System**	**Imperial System**
Rotor Minor Nominal Diameter (D)	31.6 mm	1.25 in.
Rotor Major Nominal Diameter (D+2E)	40.2 mm	1.58 in.
Minimum Tubing Drift Diameter - recommended	42.8 mm	1.685 in.
Rotor Head Orbit (with SH coupling)	49.86 mm	1.963 in.
Rotor Head Diameter	41.3 mm	1.625 in.
Rotor Helix Orbit	48.8 mm	1.922 in.
Rotor Total Length – S (Standard)	3.785 m	12.417 ft.
*Rotor Total Length – L (Long) **	*3.988 m*	*13.083 ft.*
Rotor Helix Length – S (Standard)	3.620 m	11.875 ft.
*Rotor Helix Length – L (Long) **	*3.823 m*	*12.542 ft.*
Rotor Weight – S (Standard)	23.43 kg	51.60 lbs.
*Rotor Weight – L (Long) **	*24.69 kg*	*54.37 lbs.*
Rotor Head Connection	7/8" API Pin	
Recommended Rotor Coupling OD	41.3 mm	1.625 in.
Recommended Rotor Coupling Size	SH - Slimhole	
Rotor Material	Alloy Steel - AISI/SAE 4140 or 4142	
Rotor Material Yield Strength / Tensile Strength	720 / 860 MPa	105,000 / 125,000 psi
Rotor Coating Type	Chrome	
Tag-Sub Details	**Metric System**	**Imperial System**
Rotor Space Out Tool – Tag-Sub	Standard / Slotted Tag Sub	
Tag-Sub Connections	2-7/8" EUE Pin x 2-7/8" EUE Pin	
Tag-Sub Total Length – S (Standard)	406.4 mm	16.00 in.
*Tag-Sub Total Length – L (Long) **	*609.6 mm*	*24.00 in.*
Pin Location from Bottom End of Tag-Sub – S + L	203.2 mm	8.00 in.

** - Long Length for rotor (L) available only upon request; ** MN1 Elastomer available upon request*