

PE-9™ Series
Heavy Duty Plunger
Pumps

PE 81-84™

Belt Driven

PE-941-944™

Direct Drive

FEATURES

Transfer sewage up to 335 GPM

Head levels up to 180'

160,000 psi strength shafts

Replaceable bronze insert
for lower cost parts

Leak resistant design with
Plunger Pac™ standard



Make Primary Sewage Pumping Not Your Primary Problem.

Primary sewage pumping can be a tough task at wastewater treatment plants. But facilities that use Wastecorp Plunger pumps know that it doesn't have to be a headache. Wastecorp's PE-9 Series plunger pumps are available in simplex through quadruplex pump styles. These pumps are capable of capacities up to 335 GPM against head levels up to 180 feet on a continuous duty basis.

These plunger pumps are an ideal replacement for rotary lobe double disc pumps and progressive cavity pumps because the piping arrangements are similar and the plunger pump requires less maintenance.

General Specifications	Simplex PE-81W/PE-941	Duplex PE-82W/PE-942	Triplex PE-83W/PE-943	Quadruplex PE-84W/PE-944
Number of plungers	1	2	3	4
Plunger dia. (in)	9	9	9	9
Air chambers	(1) 9"x30"	(2) 9"x30"	(3) 9"x30"	(4) 9"x30"
Flanged connections	4" ANSI 125 #	4" ANSI 125 #	6" ANSI 150 #	6" ANSI 150 #
Driver speed, RPM	1200 1800			
Number of pin positions	11			
Max. strokes per min.	50			
Max. stroke length (in)	6.56			
Max. rec. suction lift (ft)	20			
Max. total head (ft)	180	180	180	125
Max. capacity (GPM)	88	170	252	335
Eccentric dia. (in)	10			
Eccentric shaft tensile strength (PSI)	160,000			
Approx. weight less driver (lbs)	1200	1900	2650	3400

Recommended Spare Parts

Index shear pin	60795-00
Ball valve	33956-00
Bushing (bronze)	36453-00
Connecting rod insert	46726-00
Plunger 9"	15041-02

CUSTOMER SUPPORT

North America
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wastecorp.com

Pump Component	Standard Material	Optional Material
MAINSHAFT	A4140/4142 High-Strength Alloy Steel	
ECCENTRIC	ASTM A48, Class 35 Grey Iron	
LUBRICATION	Manual Sight Feed Oiler, 5 oz	a) Automatic ball-type oiler with needle valve (5 oz), b) Electric Solenoid Oiler, c) Mechanical Force Feed Lubricator
DRIVEN/DRIVE FLANGES	ASTM A48, Class 35 Grey Iron	
BUSHING, SHEAR PIN	Hardened Steel	
SHEAR PIN	Fabricated Cold Rolled Steel	
CONNECTING ROD	ASTM A48, Class 35 Grey Iron	ASTM A536 Grade 65-45-12 Ductile Iron
ECCENTRIC BEARING LINER	Replaceable, Bronze SAE 660	
BUSHING, WRIST PIN	SAE 941 Oil-Lite Bronze	
WRIST PIN	A4140/4142 High-Strength Alloy Steel	
VALVE SEAT	ASTM A48, Class 35 Grey Iron	Bronze Alloy, 316 Stainless Steel
BALL VALVE	5-1/8" Urethane Rubber with Centralized Iron Core	
PLUNGER	ASTM A48, Class 35 Grey Iron	ASTM A536 Grade 65-45-12 Ductile Iron
OPTIONAL PLUNGER COATINGS	PUMP BODY	Coatings Available: a) Chrome Oxide, b) Aluminum Oxide, c) Tungsten Carbide, d) Hastelloy C, e) Stainless Steel
STUFFING BOX	ASTM A48, Class 35 Grey Iron	
GLAND	ASTM A48, Class 35 Grey Iron	
FLANGE CONNECTION	4" ANSI 125 lb (Simplex and Duplex Pumps) 6" ANSI 150 lb (Triplex and Quadruplex Pumps)	
SAMPLING DRAIN VALVE	2" Brass Ball Valve on Discharge	2" Brass Ball Valve on Suction 1" Capped Hose Valve on Suction
AIR CHAMBER	A53 Seamless Steel Pipe, Anodized/Galvanized with ¼" brass air release valve/petcock	304 or 316 Stainless Steel
PACKING	½" sq. Graphite Impregnated Braided with Poly-urethane seal	a) Graphite Rings Only, b) Chevron Rings Only, c) Combo (Graphite/Chevron), d) Plunger Pac (Chevron, Teflon and Poly-urethane seal)
PUMP BASE	Fabricated heavy-duty steel channel and tube base plate and pedestals with drip gutters and 1" drain connections	
DRIVE ARRANGEMENT	Constant Speed, Helical horizontal Gearmotor coupled to pump's mainshaft, Max. Output Speed: 50 RPM	a) Constant Speed, Helical Shaft-Mounted vertical Gearmotor (vertical), b) V-Belt/Gear/Pulley System, c) Mechanical Variable Speed Drives, d) Variable Frequency Drives, e) Others – Contact Wastecorp
DRIVE COUPLING	Flexible Grid-Type	a) Disc Coupling, b) Elastomer Coupling, c) Others – Contact Wastecorp

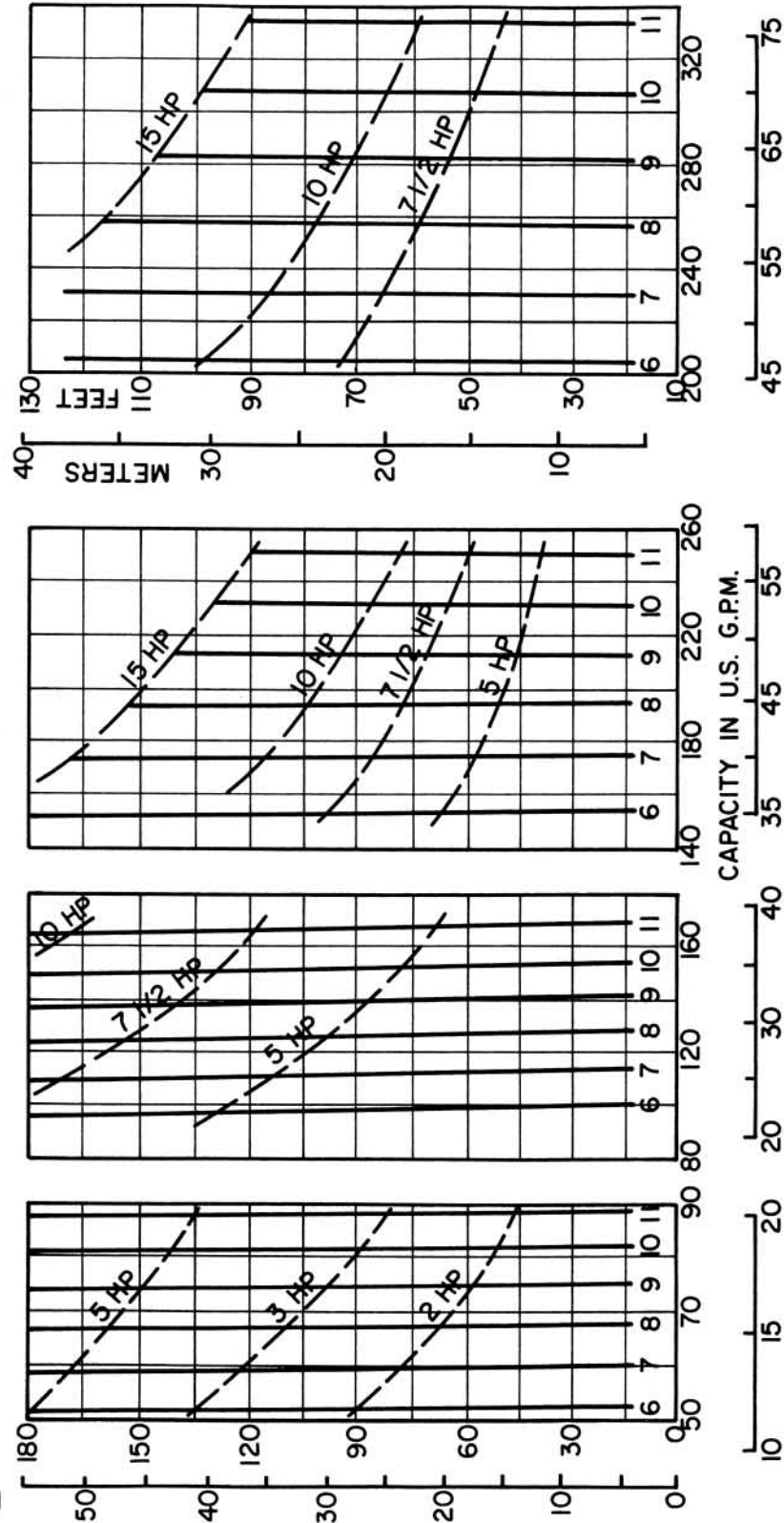
WASTECORP.

Plunger Pumps

SERIES: PE LIQUID: SP. GR. 1.0
PLUNGER DIA.: 9" (22.9cm) S.P.M.: 50

PIN POSITION	6	7	8	9	10	11
STROKE INCHES	3.86	4.40	4.94	5.48	6.02	6.56
LENGTH CM	98	11.2	12.5	13.9	15.3	16.7

TOTAL HEAD IN FEET
METERS



Wastecorp reserves the right to make changes in materials, design specifications and price without notice.

PE 81W/PE 941

PE 82W/PE 942

PE 83W/PE 943

PE 84W/PE 944

PE-9™ Series**Heavy Duty Plunger
Pumps****Wastecorp Sludge Master®
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**WASTECORP®
PLUNGER PUMPS**
OEM MANUFACTURER

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