WASTECORP. Pumps®

SLUDGE MASTER®
SPACE SAVER PLUNGER PUMPS
SS SERIES

SIMPLEX PUMP MODELS

PE 741 SS III™

PE 941 SS IIII™

PE 1141 SS III™

DUPLEX PUMP MODELS

PE 942 SS IIII™

PE 1142 SS III™

TRIPLEX PUMP MODELS

PE 943 SS IIII™

PE 1143 SS III™

SPHERICAL SOLIDS:
1 ¾" (44.45 mm)

PERCENT SOLIDS:
Municipal Sludge's up to 15% dry weight.

Industrial Sludge's up to 70% sand/clay in suspension.

Max S.G. 2.2 to 2.4

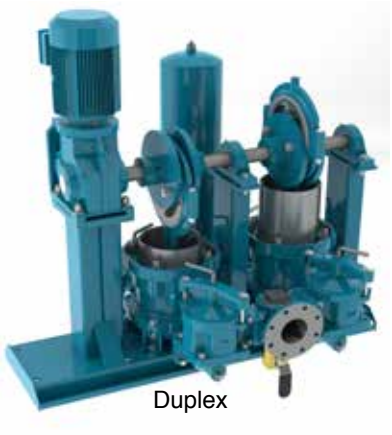
SUCTION LIFTS:
Dry Prime: 22" Hg (25 feet)

AIR HANDLING:
All others – 25 cu. ft./min at max pressure of 30 psi.

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Simplex

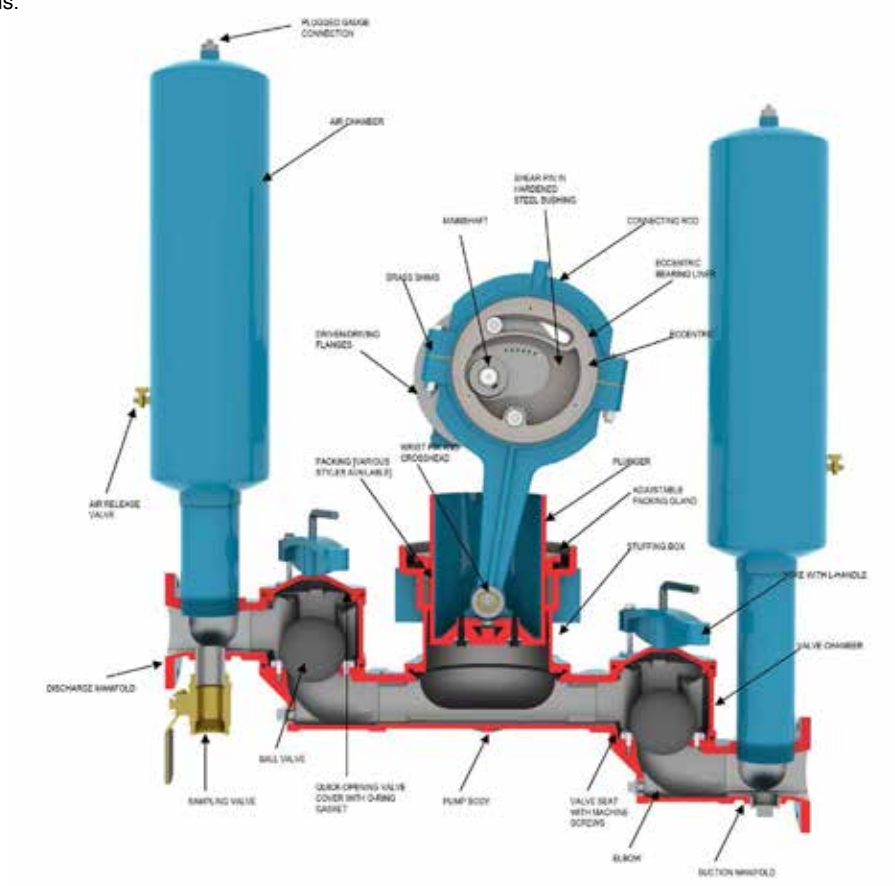

Triplex


Duplex

SPACE SAVER PLUNGER PUMPS

When it comes to space saving sewage pumps, Wastecorp has the ideal Space Saver plunger pump for your facility needs. This series is one of the most compact heavy duty sludge pumps on the market.

You can select from three packing options for superior leak protection plus, stainless steel, bronze or standard cast iron components for the ultimate customized plunger pump. All models include premium SEW Eurodrive or Siemens drive options.



SIMPLEX SPECIFICATIONS

General Specifications	Simplex PE 741 SS	Simplex PE 941 SS	Simplex PE 1141 SS
Number of plungers	1	1	1
Plunger dia. (in)	7	9	11
Air chambers		(1) 9”x30”	
Flanged connections		4” ANSI 125 #	
Driver speed, RPM		1200 | 1800	
Max. strokes per min.	50-62	50	50
Max. stroke length (in)	5.75	6.56	6.56
Max. total head (ft)	100	180	115
Max. rec. suction lift (ft)		20’	
Max. capacity (GPM)	60	100	140
Eccentric dia. (in)	8	10	10
Eccentric shaft tensile strength (PSI)		160,000	
Approx. weight (lbs)	400	600	800

DUPLEX SPECIFICATIONS

General Specifications	Duplex PE 942 SS	Duplex PE 1142 SS
Number of plungers	2	2
Plunger dia. (in)	9	11
Air chambers	(2) 9”x30”	
Flanged connections	4” ANSI 125 #	
Driver speed, RPM	1200 | 1800	
Max. strokes per min.	50	
Max. stroke length (in)	6.56”	
Max. total head (ft)	180	115
Max. rec. suction lift (ft)	20’	
Max. capacity (GPM)	170	247
Eccentric dia. (in)	10”	
Eccentric shaft tensile strength (PSI)	160,000	
Approx. weight (lbs)	1900	2000

TRIPLEX SPECIFICATIONS

General Specifications	Triplex PE 943 SS	Triplex PE 1143 SS
Number of plungers	3	3
Plunger dia. (in)	9	11
Air chambers	(2) 9”x30”	
Flanged connections	6” ANSI 150 #	
Driver speed, RPM	1200 | 1800	
Max. strokes per min.	50	
Max. stroke length (in)	6.56”	
Max. total head (ft)	180	115
Max. rec. suction lift (ft)	20’	
Max. capacity (GPM)	252	371
Eccentric dia. (in)	10”	
Eccentric shaft tensile strength (PSI)	160,000	
Approx. weight (lbs)	2150	2300

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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	
AIR CHAMBER	A53 Seamless Steel Pipe, Anodized/Galvanized with ¼" brass air release valve/petcock	304 or 316 Stainless Steel
SHEAR PIN	Fabricated Cold Rolled Steel	
CONNECTING ROD	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 A536 Grade 65-45-12 Ductile Iron	Coatings Available: a) Chrome Oxide, b) Aluminum Oxide, c) Tungsten Carbide, d) Hastelloy C, e) Stainless Steel
PUMP BODY	ASTM A536 Grade 65-45-12 Ductile Iron	
STUFFING BOX	ASTM A536 Grade 65-45-12 Ductile 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)	
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	Floor Base Frame
DRIVE ARRANGEMENT	Electric Constant Speed, Vertical Gear Reducer coupled to pump's mainshaft, Max. Output Speed: 50 RPM	

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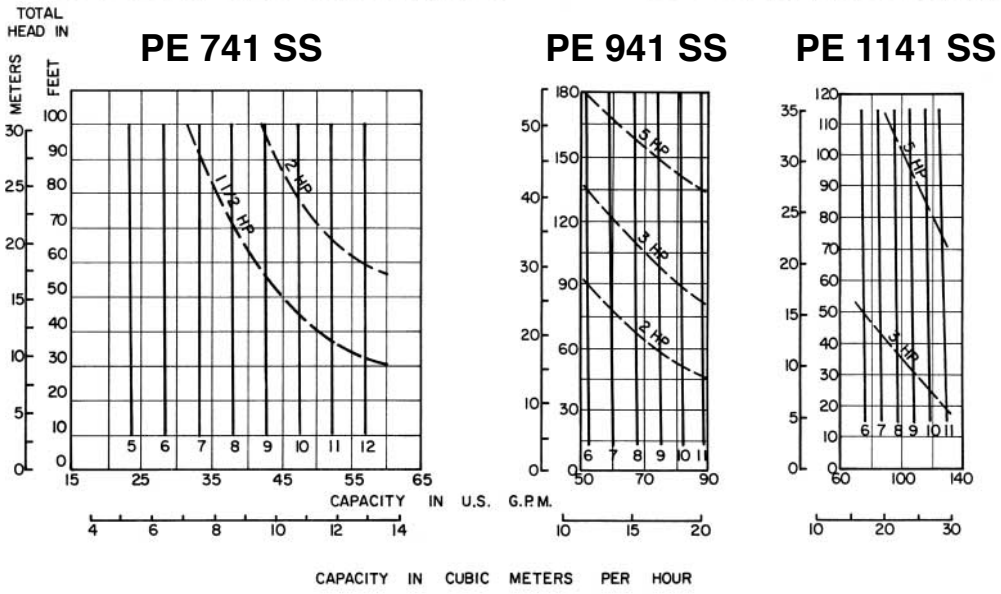
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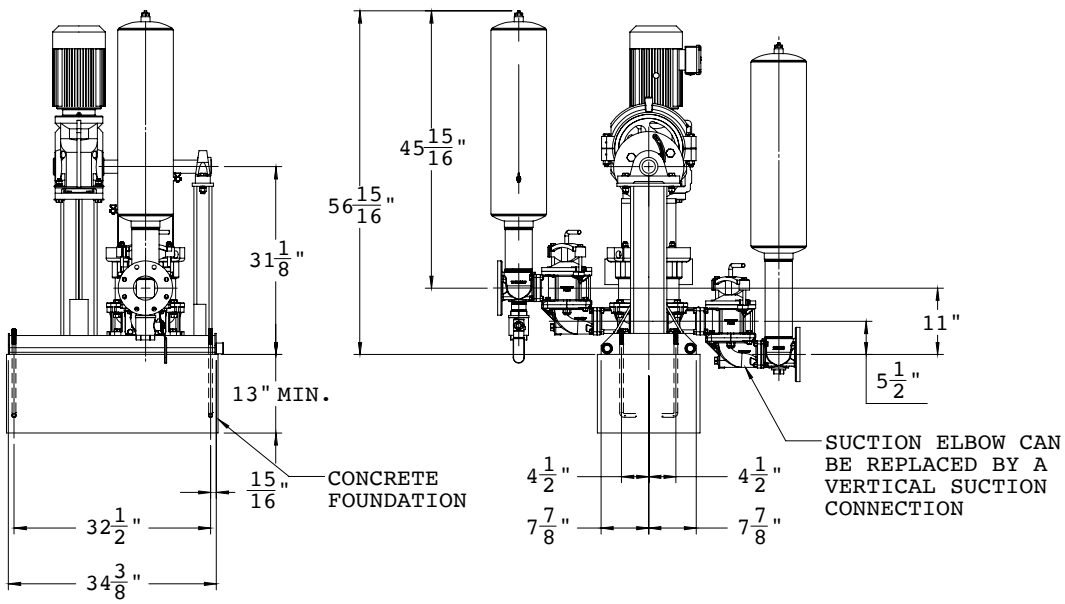
SIMPLEX PERFORMANCE CURVES

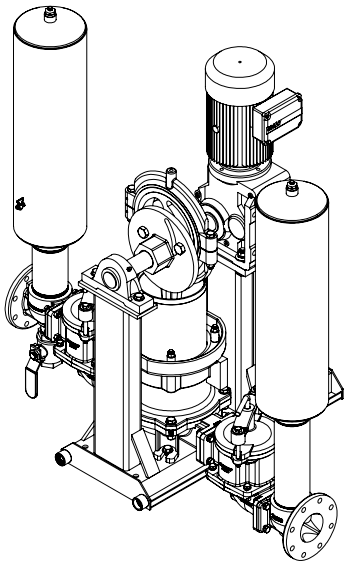
PIN POSITION		5	6	7	8	9	10	11	12
STROKE LENGTH	INCHES	2.37	2.86	3.34	3.82	4.30	4.78	5.27	5.75
	CM	6.0	7.3	8.5	9.7	10.9	12.1	13.4	14.6

PIN POSITION		6	7	8	9	10	11
STROKE LENGTH	INCHES	3.86	4.40	4.94	5.48	6.02	6.56
	CM	9.8	11.2	12.5	13.9	15.3	16.7



SIMPLEX DIMENSIONAL DRAWINGS





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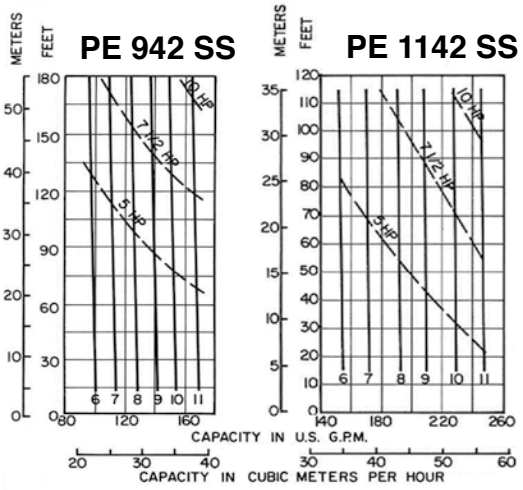
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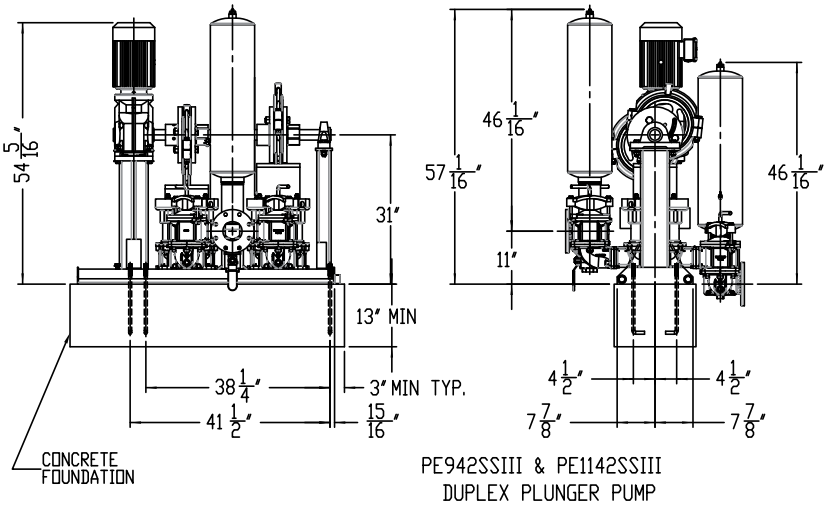
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DUPLEX PERFORMANCE CURVES

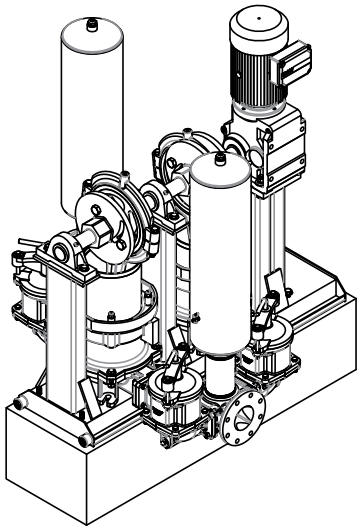
TOTAL HEAD IN	PIN POSITION	6	7	8	9	10	11
	STROKE INCHES	3.86	4.40	4.94	5.48	6.02	6.56
	LENGTH CM	9.8	11.2	12.5	13.9	15.3	16.7



DUPLEX DIMENSIONAL DRAWINGS



PE942SSIII & PE1142SSIII
DUPLEX PLUNGER PUMP

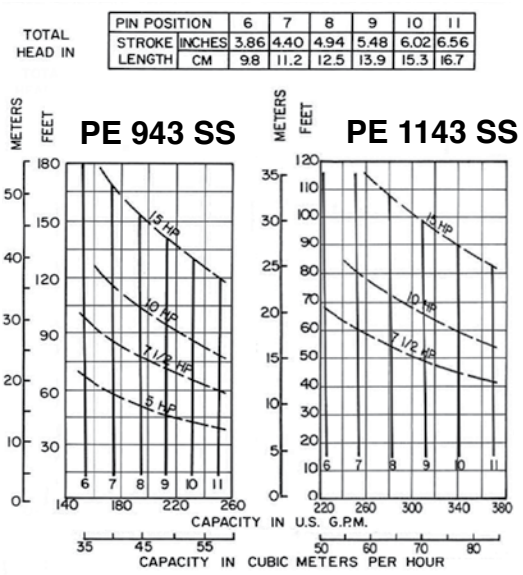


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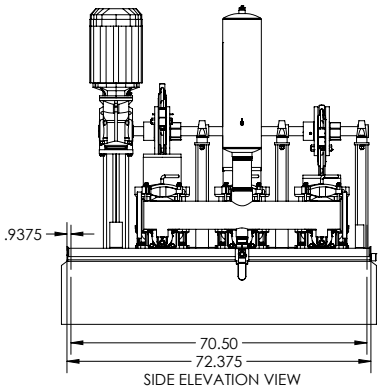
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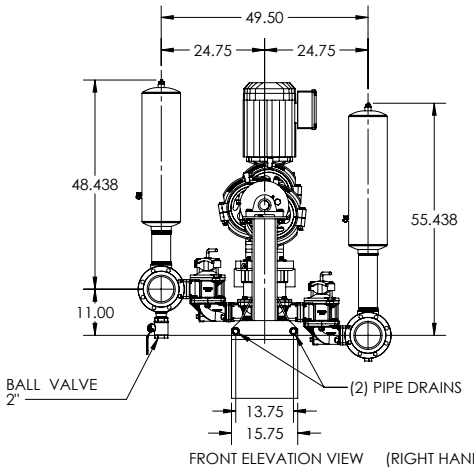
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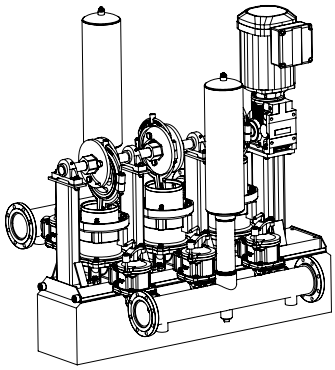
TRIPLEX PERFORMANCE CURVES



TRIPLEX DIMENSIONAL DRAWINGS






ISO VIEW

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