



## 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

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 Polyurethane 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	

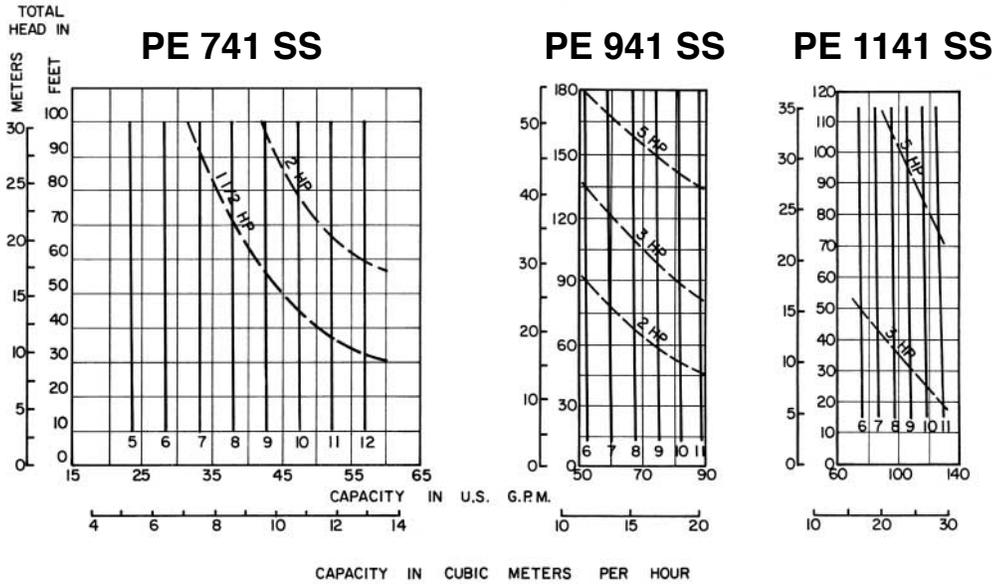
# SLUDGE MASTER® SPACE SAVER PLUNGER PUMPS SS SERIES



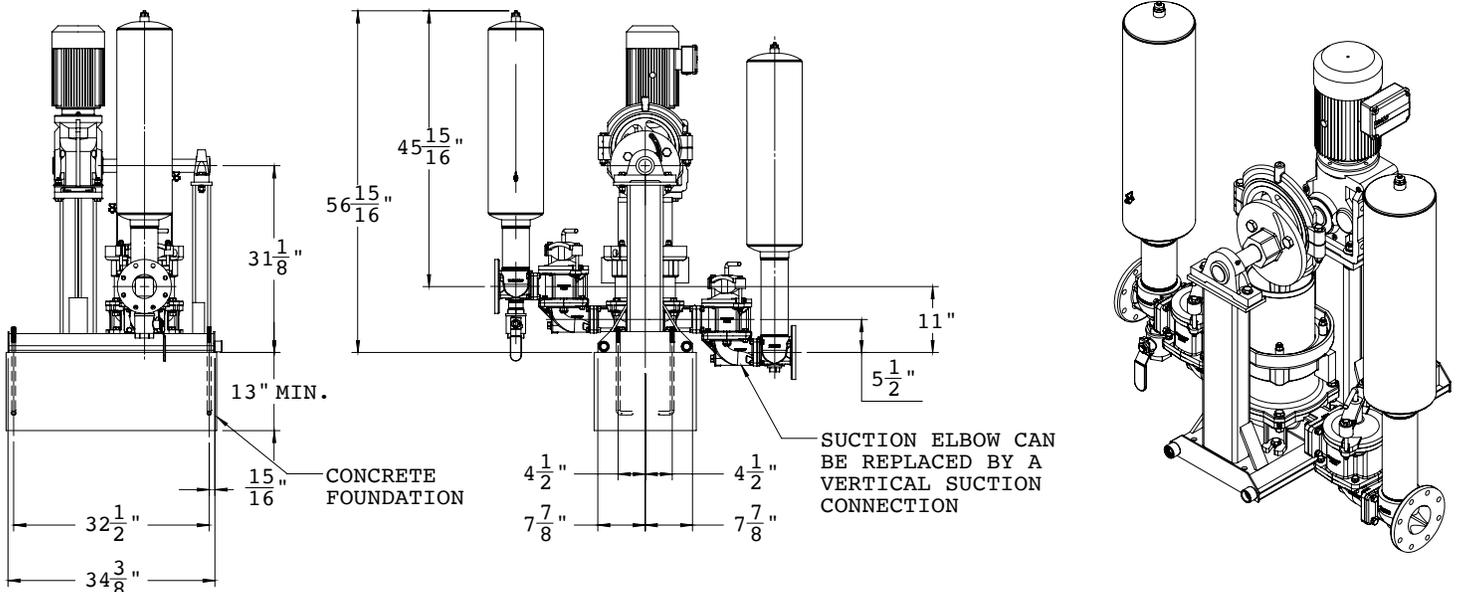
## SIMPLEX PERFORMANCE CURVES

PIN POSITION	5	6	7	8	9	10	11	12
STROKE INCHES	2.37	2.86	3.34	3.82	4.30	4.78	5.27	5.75
LENGTH 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 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



## SIMPLEX DIMENSIONAL DRAWINGS



Wastecorp reserves the right to make changes in materials, design specifications and price without notice. Drawing not for construction purposes.

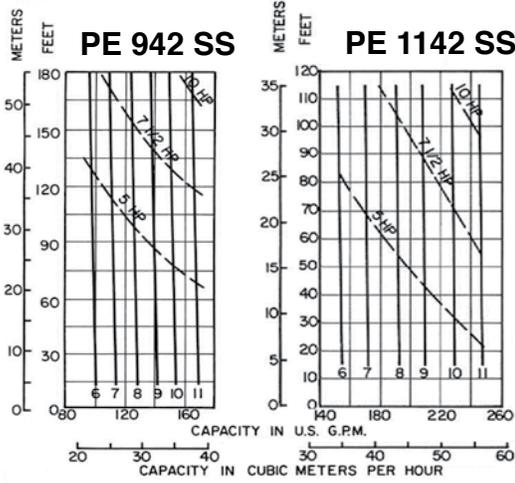
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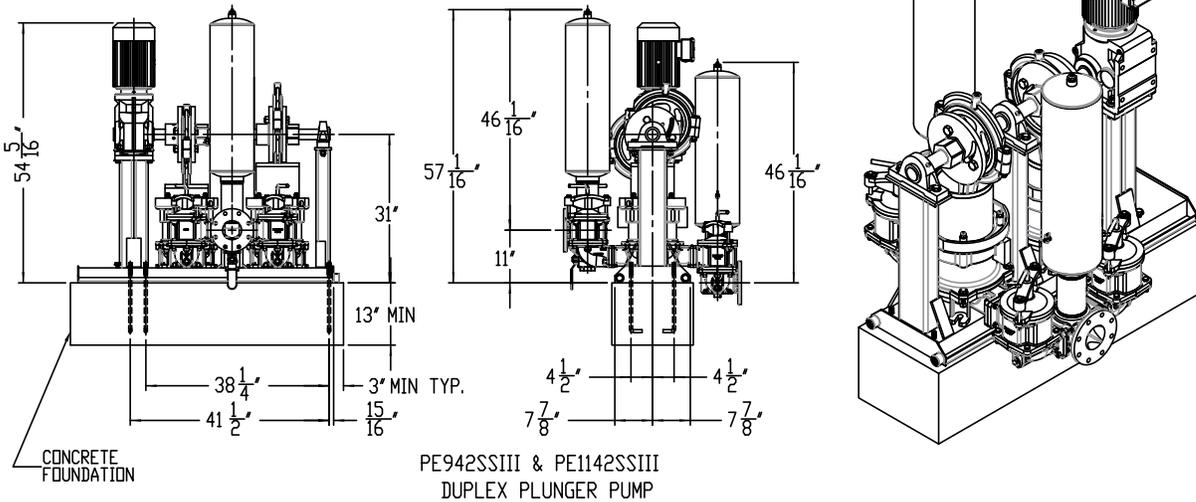


## DUPLEX PERFORMANCE CURVES

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



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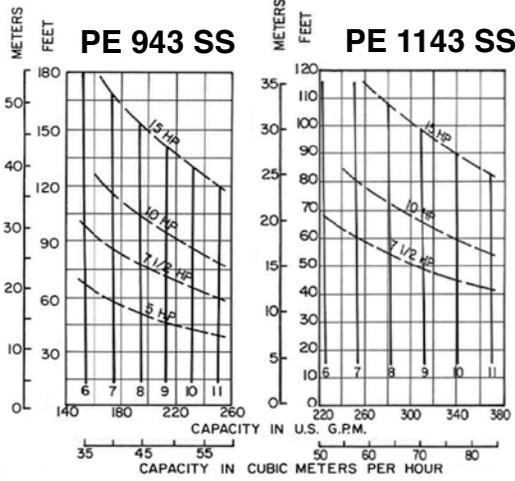
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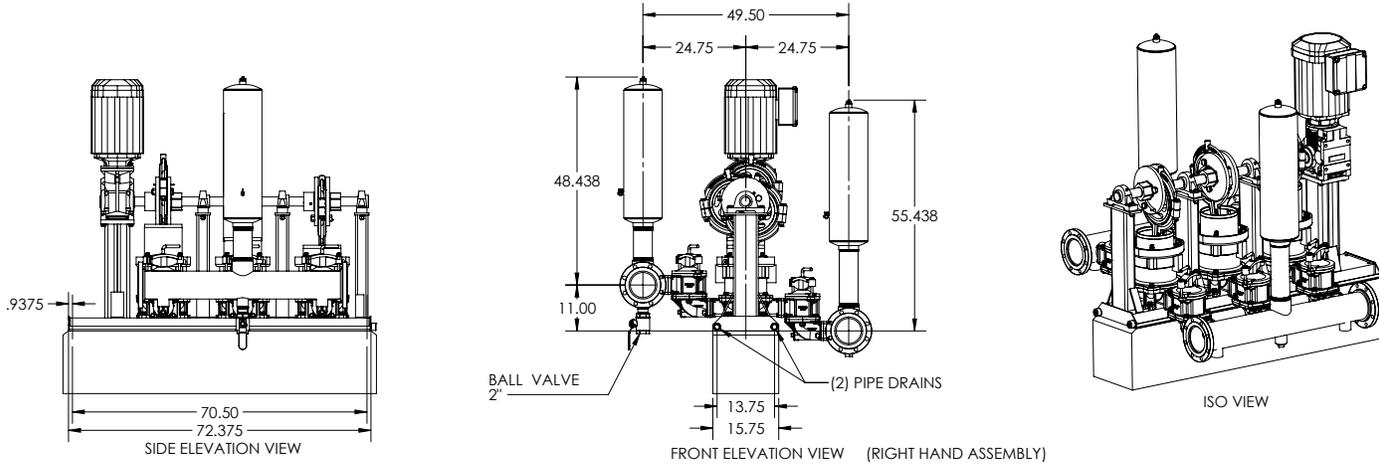


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