WASTECORP. Pumps®

SLUDGE MASTER®

SEVERE DUTY PLUNGER PUMPS

HPE SERIES

PUMP MODELS

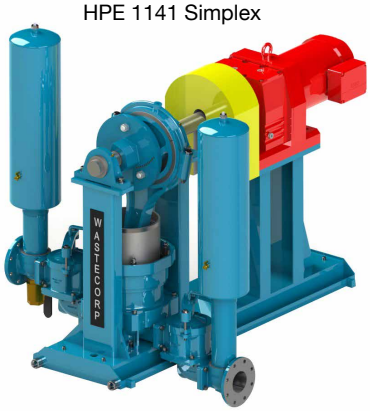
- HPE 1141 Simplex
- HPE 1142 Duplex
- HPE 1143 Triplex
- HPE 1144 Quadruplex

FEATURES

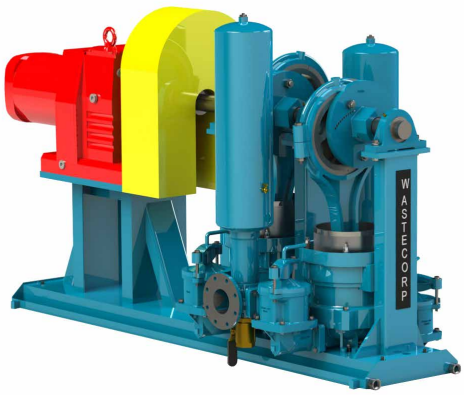
- TRANSFER UP TO 556 GPM
- 160,000 PSI STRENGTH SHAFTS
- SPHERICAL SOLIDS: 1 ¾" (44.45 MM)
- MAX PERCENT SOLIDS @ 68F (20c) ambient temperature:
  - Industrial Sludge/Slurry: 30% Dry Weight
  - Municipal Sludge/Slurry: 15% Dry Weight
  - Sand/Clay mix suspended: 70%
  - Viscosity: 100,000 Centipoise
  - Specific Gravity: 2.2 to 2.
- SUCTION LIFTS: Dry Prime: 22" Hg (25 feet)
- AIR HANDLING: All others – 25 cu. ft./min at max pressure of 30 psi.
- REPLACEABLE BRONZE INSERT
- LOWER COST PARTS
- LEAK RESISTANT DESIGN

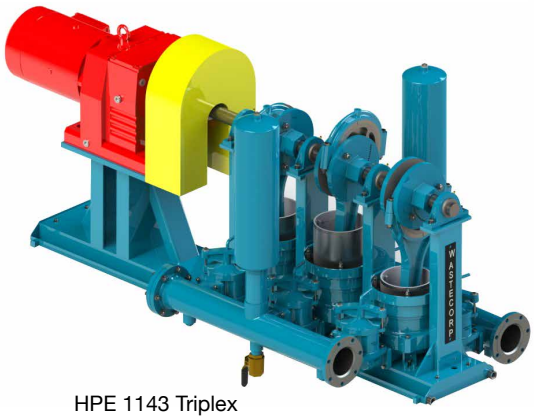
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HPE 1141 Simplex

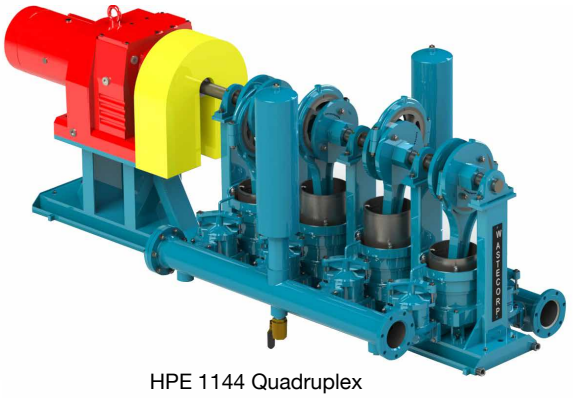


HPE 1142 Duplex





HPE 1143 Triplex



HPE 1144 Quadruplex

THICKENED SLUDGE. PRIMARY SEWAGE. THE SLUDGE MASTER PUMPS IT ALL.

The severe duty HPE Series is specified for municipal and industrial sewage, sludge, food processin waste and much more. This pump series is available with single ball valve or dual ball valve configurations for pumping higher percentages of solids

With the HPE your facility can pump up to 556 GPM. Wastecorp also offers leak resistant packing systems, guided plunger assemblies for less component wear and pressure switches to help protect your pump.

General Specifications	Simplex HPE 1141	Duplex HPE 1142	Triplex HPE 1143	Quadruplex HPE 1144
Number of plungers	1	2	3	4
Plunger dia. (in)	11	11	11	11
Air chambers	(2) 9"x30"			
Flanged connections	4" ANSI 125 #	4" ANSI 125 #	6" ANSI 150 #	6" ANSI 150 #
Number of pin positions	11			
RPM Speeds	50			
Max. stroke length (in)	7.25			
Max. rec. suction lift (ft)	20			
Max. total head (ft)	170	170	130	95
Max. capacity (GPM)	142	280	418	556
Eccentric dia. (in)	12			
Shaft tensile strength (PSI)	160,000			

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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	
PUMP BODY	ASTM A536 Grade 65-45-12 Ductile Iron	
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
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 Quad Pumps)	
PACKING	½" sq. Kevlar 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	

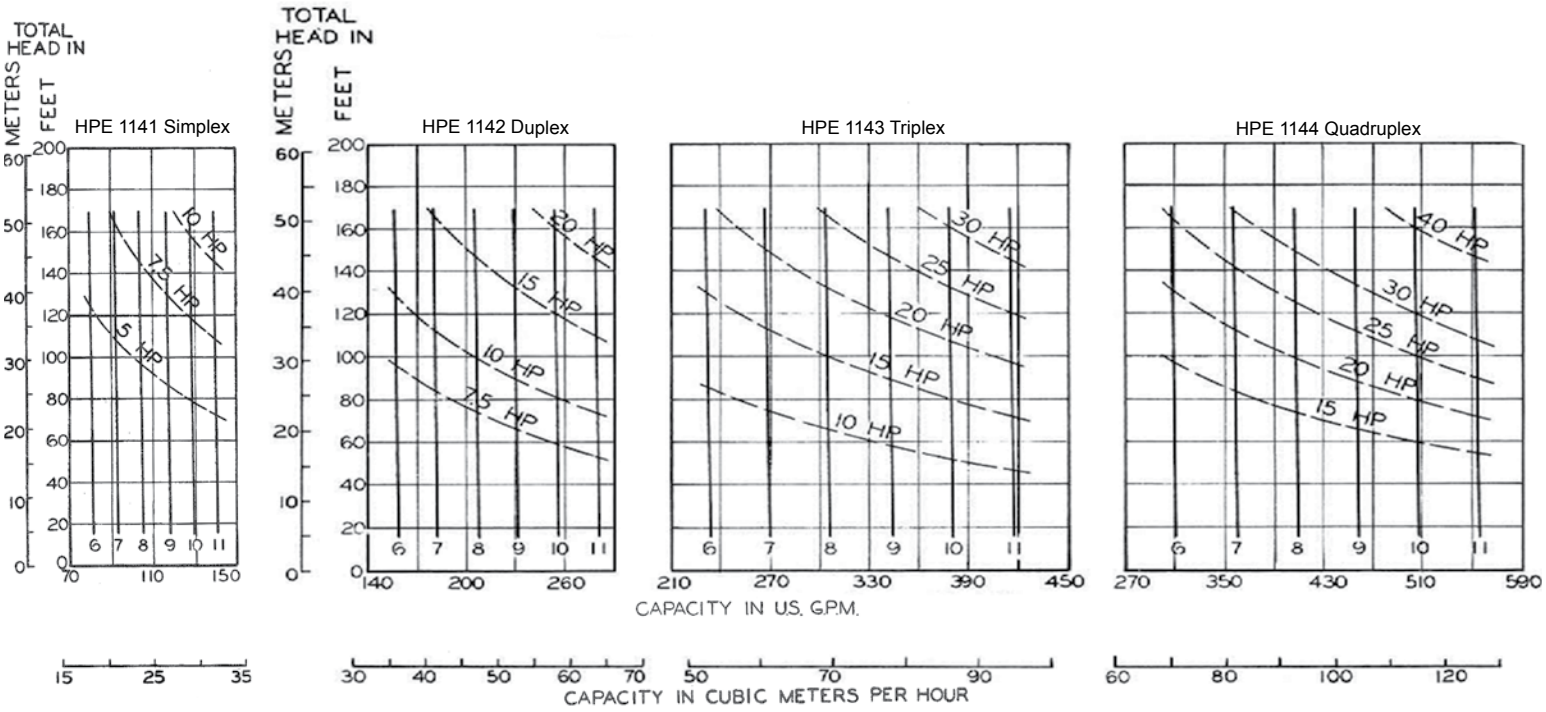
Wastecorp reserves the right to make changes in materials, design specifications, performance specifications and price without notic

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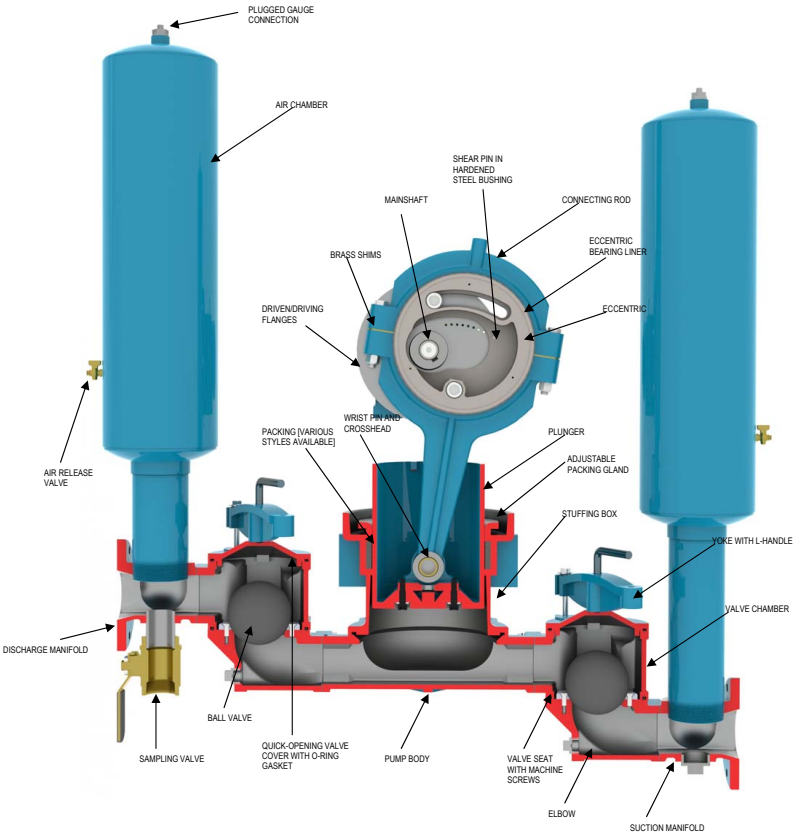
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PERFORMANCE CURVES



PIN POS.	STROKE LENGTH INCHES	CM
6	4.125	10.5
7	4.750	12.1
8	5.375	13.7
9	6.000	15.2
10	6.625	16.8
11	7.250	18.4

Cross Section Assembly

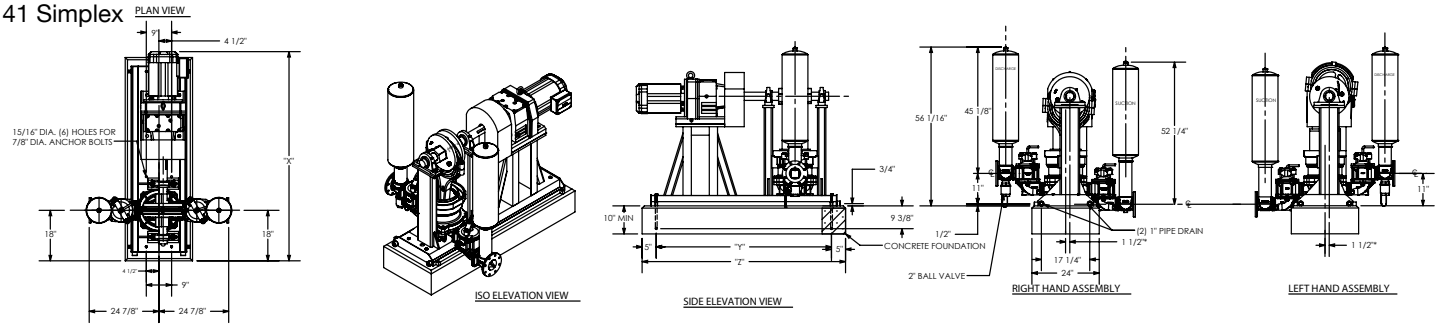


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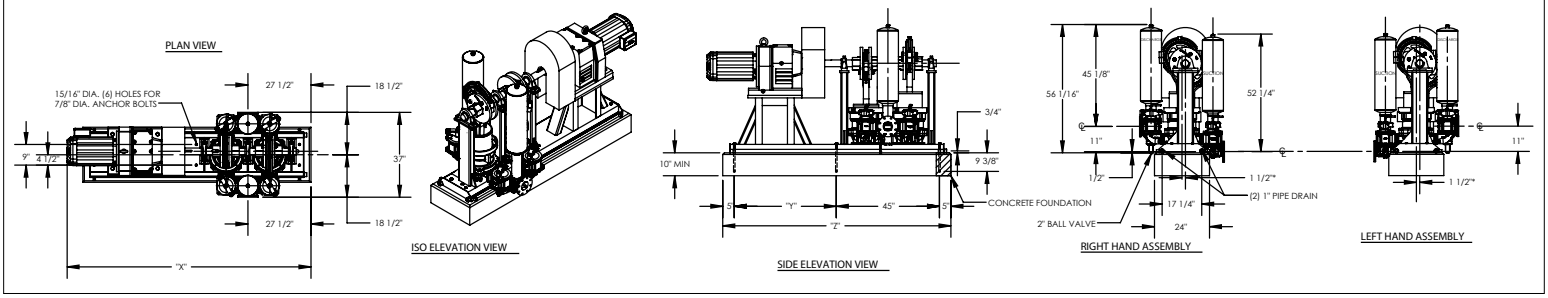
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DIMENSIONAL DRAWINGS

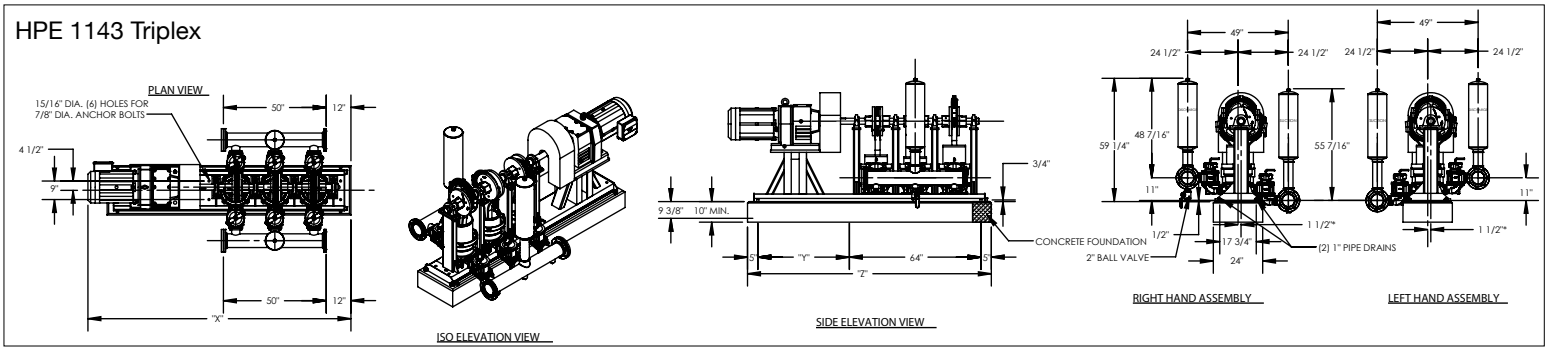
HPE 1141 Simplex



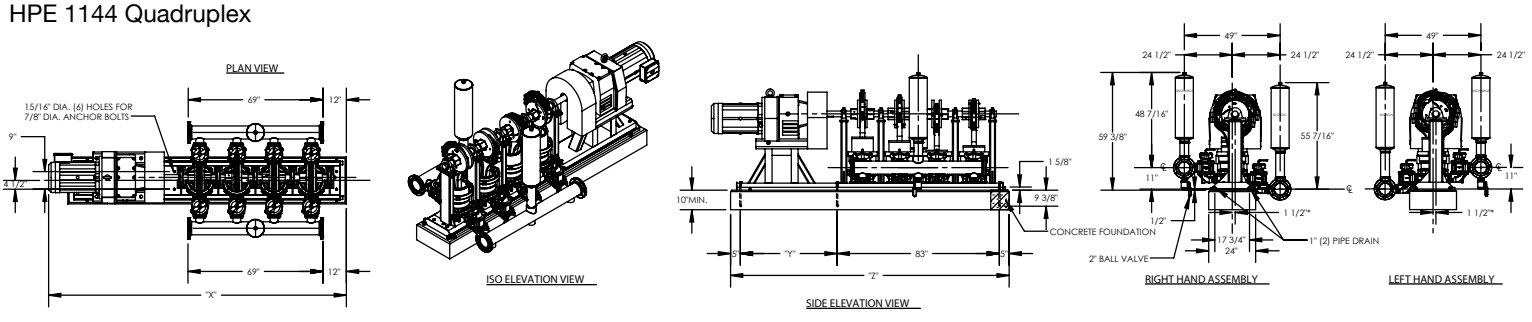
HPE 1142 Duplex



HPE 1143 Triplex



HPE 1144 Quadruplex



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