

# SLUDGE MASTER®

HEAVY DUTY PLUNGER PUMPS

## PE SERIES

### PUMP MODELS

#### PE 741

### FEATURES

TRANSFER UP TO 60 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.

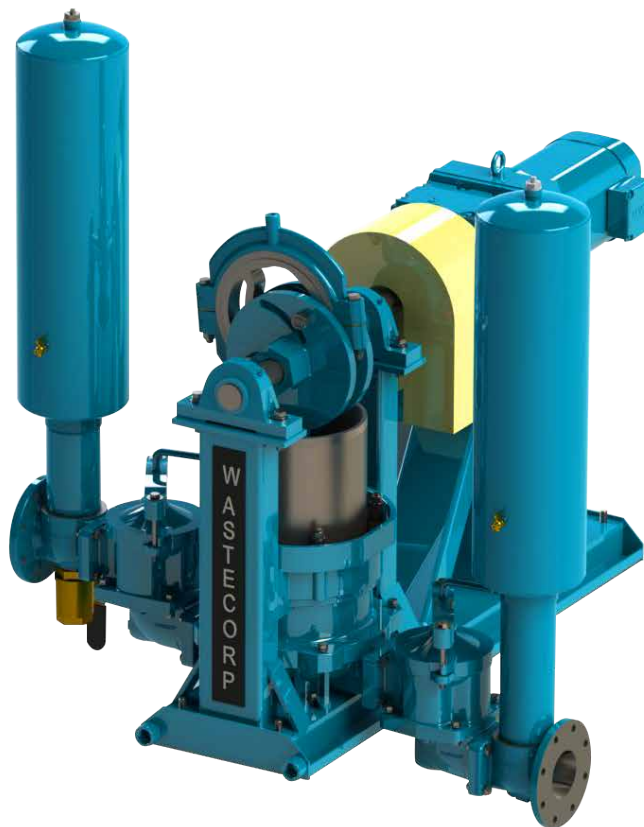
SUCTION LIFTS:  
Dry Prime: 22" Hg (25 feet)

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

REPLACEABLE BRONZE  
INSERT

LOWER COST PARTS

LEAK RESISTANT DESIGN



## Modern Sewage Treatment Solutions In a Familiar Package.

What does the average sewage pumping day look like at your wastewater plant? Chances are, you're looking at tougher sewage transfer tasks and seeking reliable equipment that won't require a maintenance crew of five to service.

That's where the PE 741 Series plunger pumps can make a difference at your plant. These sewage pumps can transfer up to 60 GPM at max. total head up to 100 ft. Better yet, the Wastecorp plunger pump is modernized with 160,000 psi strength shafts and upgraded packing material for the strongest seal yet. Don't spend your man hours (or your budget) trying to repair a double disc, rotary lobe or progressive cavity pump. Go with the proven performer Wastecorp PE-741 Series.

### General Specifications

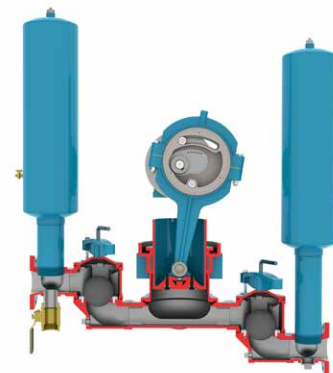
#### Simplex PE 741

|                                  |               |
|----------------------------------|---------------|
| Number of plungers               | 1             |
| Plunger dia. (in)                | 7             |
| Air chambers                     | (2) 9"x30"    |
| Flanged connections              | 4" ANSI 125 # |
| Number of pin positions          | 12            |
| RPM Speeds                       | 42 - 62       |
| Max. stroke length (in)          | 5.75          |
| Max. rec. suction lift (ft)      | 20            |
| Max. total head (ft)             | 100           |
| Max. capacity (GPM)              | 60            |
| Eccentric dia. (in)              | 8             |
| Shaft tensile strength (PSI)     | 160,000       |
| Approx. weight less driver (lbs) | 750           |



### Accessories

Pressure and  
compound gauge



| 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 1/4" 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)                                                                        |                                                                                                                                     |
| PACKING                 | 1/2" 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: 42 - 62 RPM       |                                                                                                                                     |

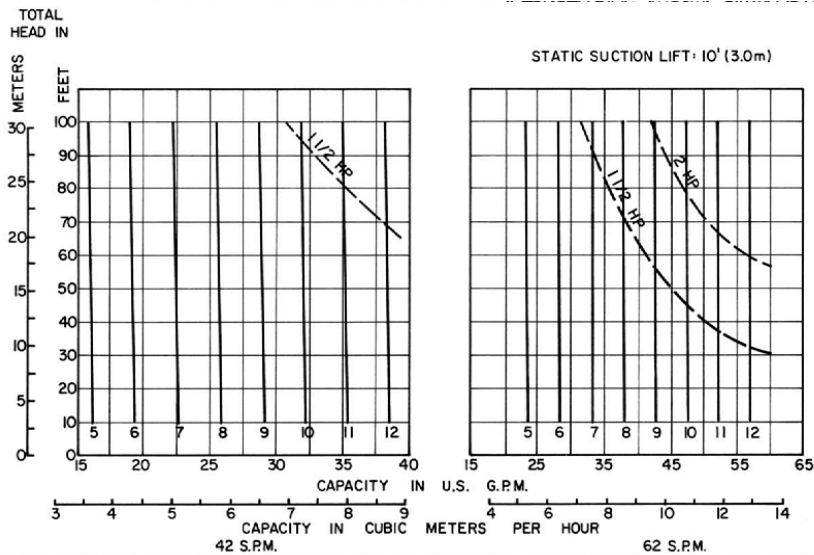
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## HEAVY DUTY PLUNGER PUMPS

# PE SERIES



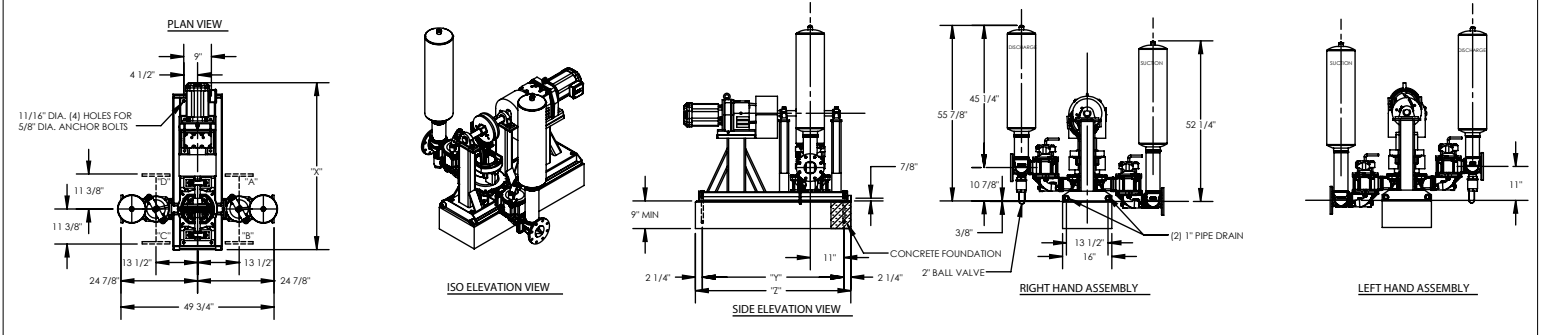
## PERFORMANCE CURVES



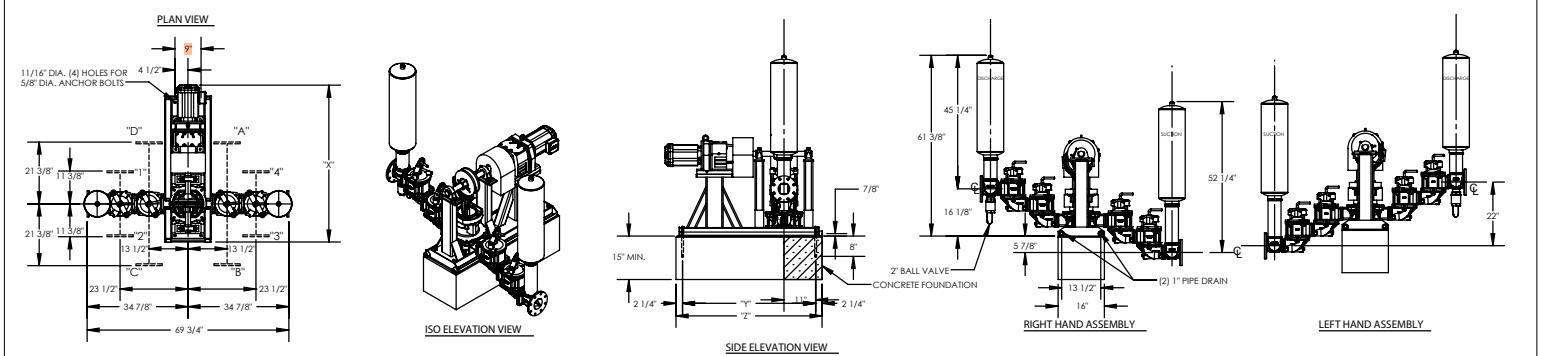
| PIN POSITION  | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
|---------------|------|------|------|------|------|------|------|------|
| STROKE INCHES | 2.37 | 2.86 | 3.34 | 3.82 | 4.30 | 4.78 | 5.27 | 5.75 |
| LENGTH CM     | 6.0  | 7.3  | 8.5  | 9.7  | 10.9 | 12.1 | 13.4 | 14.6 |

## DIMENSIONAL DRAWINGS

### SINGLE BALL VALVE



### DOUBLE BALL VALVE



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