

PUMPS FOR INDUSTRY

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Engineering Sample Specifi	cations

//*5/1/17/0*/ SERIES 700

Quality Design Features Assure Long, Trouble-Free Service



CONSTRUCTION:

Standard

- · Bronze bottom line shaft bearings
- Bronze intermediate bearings (pit depths over 6'-0")
- Fully enclosed 2 vane non-clog design with wiping vanes
- High-thrust angular contact ball bearing
- External impeller adjustment
- Grease lubricated pump and line shaft bearings
- 416 stainless steel shaft
- Round or square cover plates with 316 stainless steel float rod vent and inspection openings
- Gas-tight construction
- Pump setting increments of 1'-0" for sump depths up to 26'-0"

- Flanged discharge on all casings
- · Long radius discharge elbow
- · Standard C face motors

Options

- · Various line shaft bearing designs
- 316 stainless steel shafting
- · Oval pump mounting plate
- Various float switch enclosures
- Various liquid level controls
- High water alarm
- · Alarm bells and horns
- 316 stainless steel float
- Below plate discharge "T"
- Basins
- Simplex & duplex control panels

WIDE RANGE OF APPLICATIONS:

- Industrial Wastes
- Sanitary Wastes
- Process Wastes
- Rendering Wastes
- Pollution Control

CAPABILITIES:

- Capacities to 1500 GPM
- Heads to 100 Feet
- Pit Depths to 26 Feet
- Construction: Cast Iron

STANDARD MATERIALS **OF CONSTRUCTION**

Materials Part Description

Thrust Bearing Housing

Motor Support Cast Iron, Class 30

Shaft Stainless Steel AISI-416

Column Steel ASTM-A53

Bearing Housing Cast Iron, Class 30

Guide Bearings Bronze SAE 660

Casing, Suction cover, Cast Iron, Class 30

Impeller

Impeller Trim Stainless Steel AISI- 316

Discharge Pipe Steel ASTM - A53

Cover Plate Steel HRS

Adjusting Nut Steel ASTM-307

Nitrile Double Lip Seal

Superior Features

1. Motor Support

Assures positive alignment of motor and pump shaft with register fit. Normal thrust, vertical NEMA C face motor standard

2. Flexible Coupling

3. External Impeller Adjustment

High performance maintained without dismantling pump

4. Thrust Bearings

High thrust angular contact bearing. Moisture-proof enclosure with (2) grease seals, purge-type grease lubrication

5. Gas Tight Column Closure

Double lip seal, grease lubricated

6. Cover Plate

Designed for specific unit. Carbon steel standard

7. Column Pipe

Schedule 40 steel with welded flanges

8. Positive Machined Fits

Machine registered fits of column, bearing housing and casing

9. Intermediate Bearing Assembly

Optional designs for special applications. Furnished as standard on pumps built for pit depths greater than 6'-0"

10. Shafting

Accurately machined 416 stainless steel, 1 1/4" or 1 1/2" diameter to assure minimum deflection

11. Pump Bearing Assembly

Heavy construction designed for maximum bearing loadings. Optional designs available

12. Bearings

Various materials available to suit most specifications

13. Choker Ring

Restricts entrance of abrasives and solids into bottom bearing area

14. Impeller

Fully enclosed 2 vane non-clog design with wiping vanes which reduce axial loading and prolongs bearing life. Wiping vanes aid in keeping particles from behind impeller and pump bearing assembly. Impeller is secured to shaft by taper fit with woodruff key, nut.

15. Casing

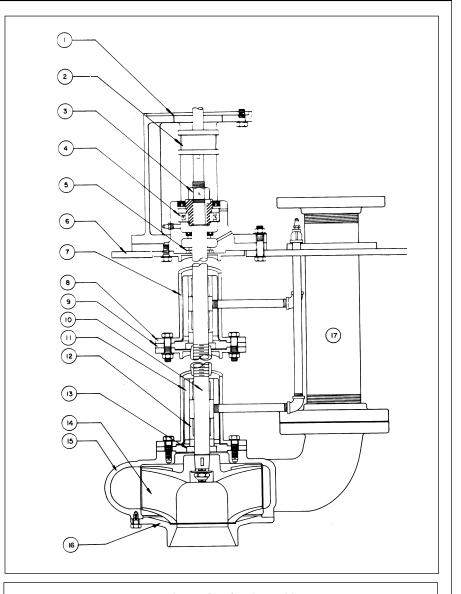
Flanged discharge all sizes. Designed specifically for solids handling. Incorporates long radius elbow, reducing friction loss

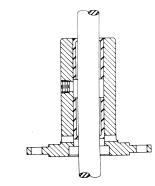
16. Suction Cover

Removable on all pumps for easy inspection, cleaning or servicing

17. Discharge Pipe

All sizes flanged. Below plate "T"-type discharge available





Lower Bearing Assembly

The Standard pump bearing assembly consists of choker ring and (2) guide bearing bushings compatible with the liquid. Standard bronze bearings furnished with pressurized grease lubrication. Optional: rubber or carbon graphite.

Intermediate Bearing Assembly

The standard intermediate bearing assembly consists of (2) guide bearings compatible with the liquid and is standard when pump length exceeds 6 feet. Standard bronze bearings furnished for pressurized grease lubrication. Optional: rubber or carbon graphite.

Model Number	Shaft Size	Column Pipe Size	Quantity of Bushings Bottom Bearing
720	. 1.250	4.00	2
724	. 1.500	4.00	2