

# VERTIFLO

*The Vertical Pump Specialists*

## PUMPS FOR INDUSTRY

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Introduction & User List

Product Overview

Vertical Process Pumps ..... Series 600

Vertical Sewage Pumps ..... Series 700

Vertical Sump Pumps ..... Series 800

Vertical Vortex Pumps ..... Series 900

Vertical Cantilever Pumps ..... Series 1100 and 1200

**Horizontal End Suction  
Pumps-Centrifugal ..... Series 1300 and 1400**

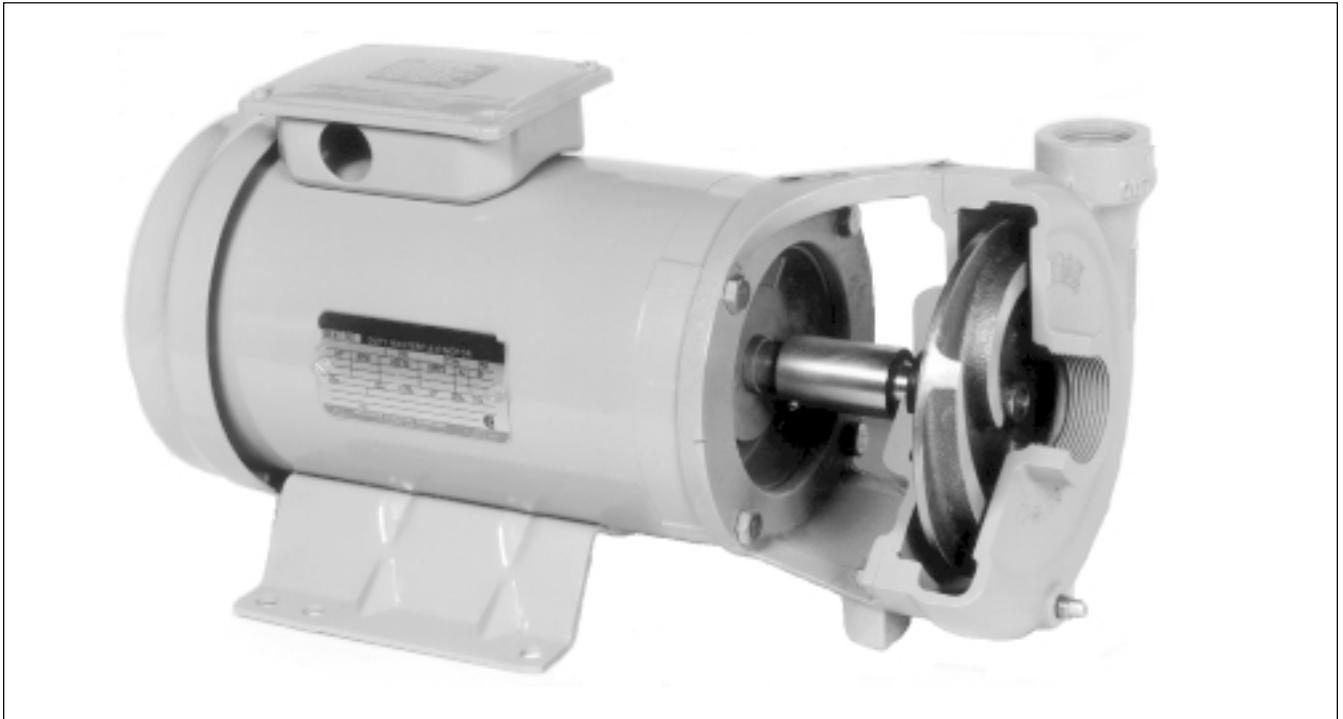
Horizontal End Suction  
Pumps-Vortex ..... Series 1500 and 1600

Horizontal Self-priming  
Pumps- Centrifugal ..... Series 2100

Engineering Sample Specifications

**VERTIFLO** SERIES 1300, MODEL 1312

Quality Design Features Assure Long, Trouble-Free Service

**WIDE RANGE OF APPLICATIONS:**

- General Pumping
- Process
- Chemicals
- Deionized Water
- Wash Systems
- OEM

**CAPABILITIES:**

- Capacities to 240 GPM
- Heads To 160 Feet TDH
- 1750 and 3500 RPM

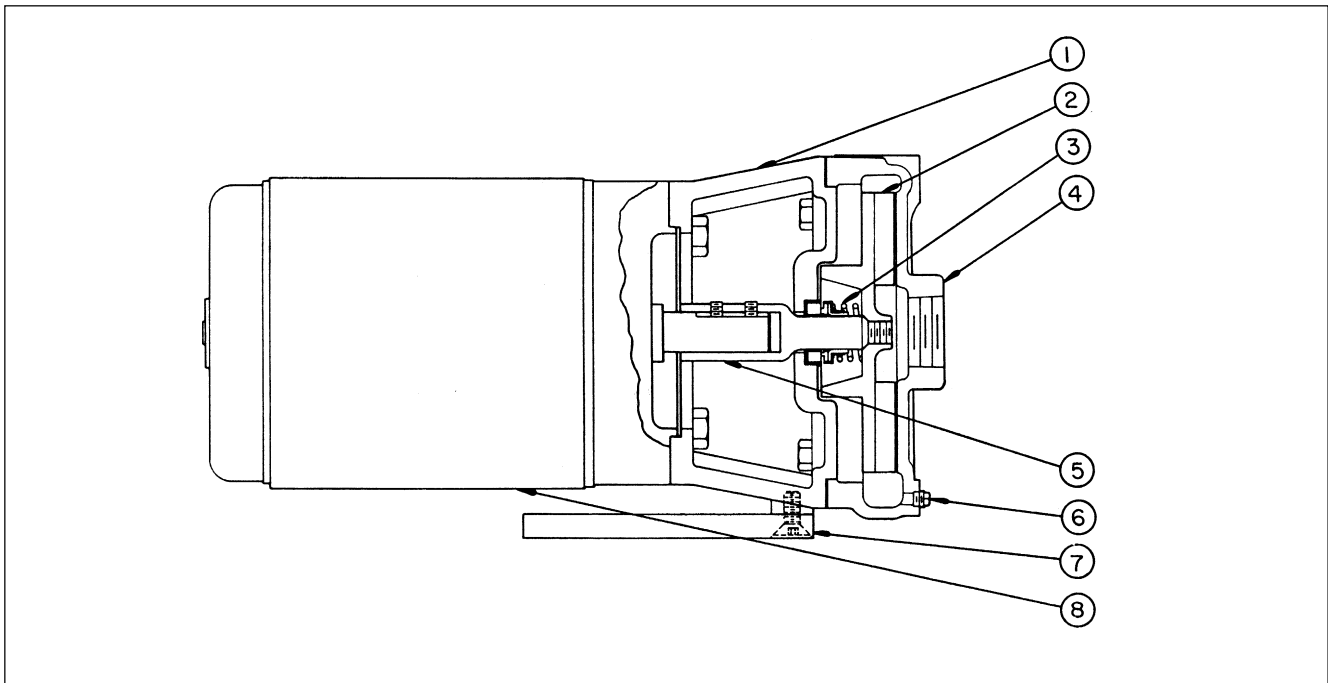
**CONSTRUCTION:**

- All Iron
- Bronze Fitted
- 316 Stainless Steel Fitted
- All 316 Stainless Steel

**FEATURES:**

- Close-Coupled Design Saves Installation Space
- Back Pull-Out Design
- Standard NEMA C-Face Motor
- Standard Size Mechanical Seal
- Pump Volute, Impeller and Mounting Bracket are Heavy Cast Metal
- Semi-Open Impeller
- Threaded NPT Suction and Discharge Connections

*Model 1312 horizontal motor-mounted end suction pumps are designed for use with NEMA standard C-face electric motors. This rugged and dependable pump will provide many years of dependable service.*



### **CUSTOMER Benefits**

**1. Motor Support and Seal Housing**  
one-piece casting

- Assures positive alignment of motor and pump with registered fits

**2. Impeller**  
semi-open design with balance hub. Secured to shaft by taper and threads.

- High quality - smooth performance
- Easily removed

**3. Mechanical Seal**  
Self-aligning design

- No adjustment required

**4. Casing**  
Back pull-out design. Discharge orientation options.

- Rotating element easily removed - casing remains in piping
- Casing may be rotated in 90° increments to accommodate various piping requirements

**5. Shaft**  
316 stainless steel material. Standard with taper and threads.

- Long lasting and replaceable

**6. Support Foot Adaptor (optional)**

- Bolt-on type design for versatility

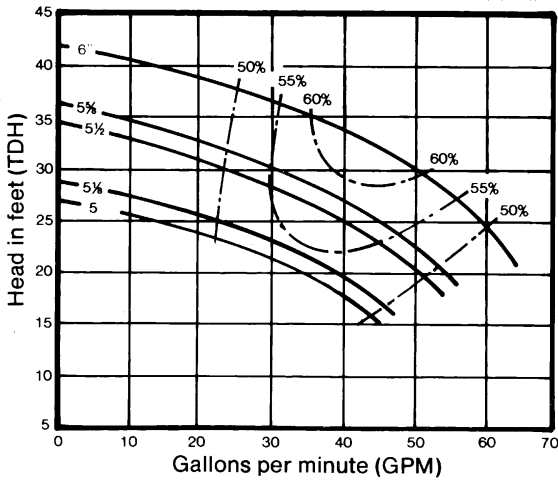
**7. C-Face Motor**  
Standard

- Readily available

# VERTIFLO PUMP COMPANY Performance Curves

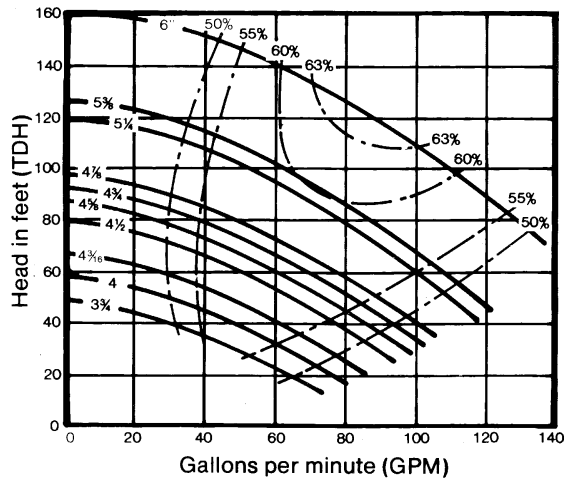
## Series 1300 / Model 1312 Size 1 1/2 X 1 X 6

1750 RPM



HP	SF	DIA
3/4	1.15	6
	1.00	6
1/2	1.15	5 5/8
	1.00	5 1/2
1/3	1.15	5 1/8
	1.00	5

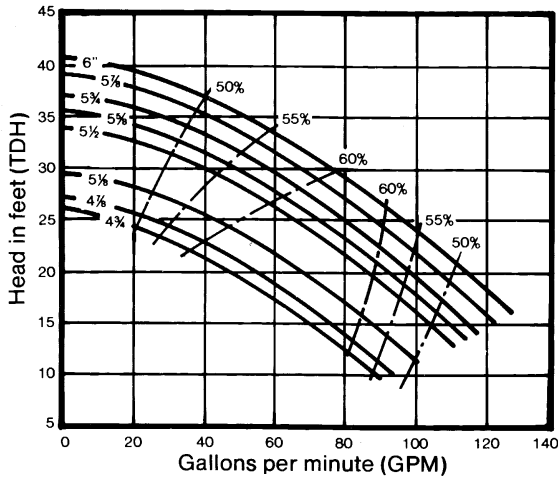
3500 RPM



HP	SF	DIA	HP	SF	DIA
5	1.15	6	1 1/2	1.15	4 5/8
	1.00	6		1.00	4 1/2
3	1.15	5 3/8	1	1.15	4 3/16
	1.00	5 1/4		1.00	4
2	1.15	4 7/8			
	1.00	4 3/4			

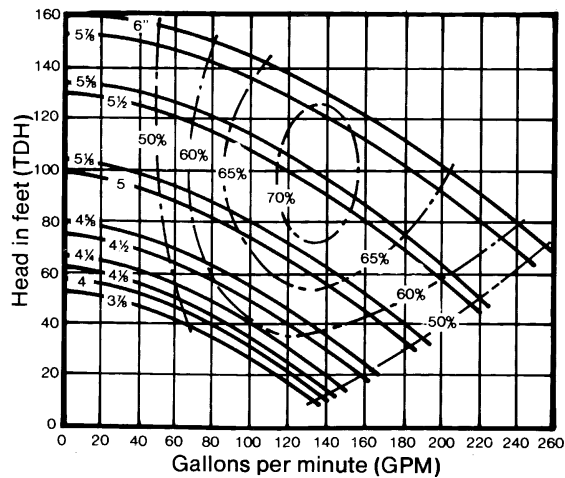
## Series 1300 / Model 1312 Size 2 X 1 1/2 X 6

1750 RPM



HP	SF	DIA	HP	SF	DIA
1 1/2	1.15	6	3/4	1.15	5 5/8
	1.00	6		1.00	5 1/2
1	1.15	5 7/8	1/2	1.15	5 1/8
	1.00	4 7/8		1.00	4 7/8

3500 RPM



HP	SF	DIA	HP	SF	DIA
7 1/2	1.15	6	2	1.15	4 5/8
	1.00	5 7/8		1.00	4 1/2
5	1.15	5 5/8	1 1/2	1.15	4 1/4
	1.00	5 1/2		1.00	4 1/8
3	1.15	5 1/8	1	1.15	4
	1.00	5		1.00	3 7/8

Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

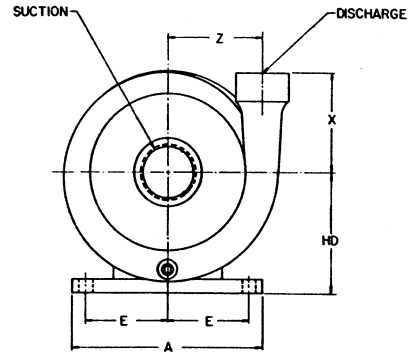
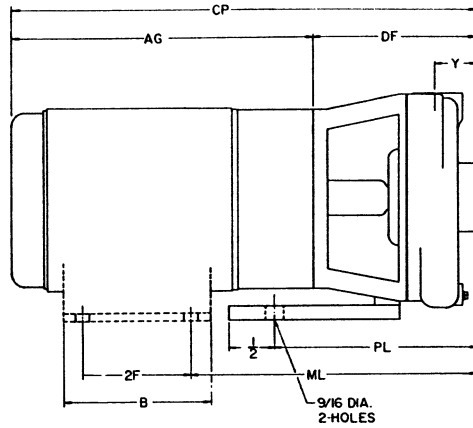
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

1300

## 1300 Series / Model 1312



### Size 1 1/2 x 1 x 6

RPM	HP	PUMP FOOT	SUC	DIS	A	AG	B	CP	E	2F	DF	H*	HD	ML	PL	X	Y	Z
1750	1/8	NOT REQD	1 1/2" NPT	1" NPT	6.50	9.29	4.25	15.17	2.44	3.00	5.88	NA	4.38	8.75	5.50	3.75	1.25	3.50
	1/2					9.94		15.82										
	3/4					9.29		15.19										
1	10.29					16.17												
3500	1					11.06	16.94	5.94	2.75	5.00		.44	4.50					
	1 1/2					12.07	17.82											
	2					13.68	19.56											
	3																	
5																		

*Dimensions are for TEFC motors only  
\*Optional pump foot shown for motors less feet*

### Size 2 x 1 1/2 x 6

RPM	HP	PUMP FOOT	SUC	DIS	A	AG	B	CP	E	2F	DF	H*	HD	ML	PL	X	Y	Z
1750	1/2	NOT REQD	2" NPT	1 1/2" NPT	6.50	9.29	4.25	15.67	2.44	3.00	6.38	NA	4.38	9.25	6.00	3.88	1.63	3.63
	3/4					9.94		16.32										
	1					10.19		16.57										
	1 1/2					10.29	16.67											
3500	1 1/2					11.06	17.44	5.94	2.75	5.00		.44	4.50					
	2					12.07	18.32											
	3					13.68	20.06											
	5					15.18	21.56											
	7 1/2																	

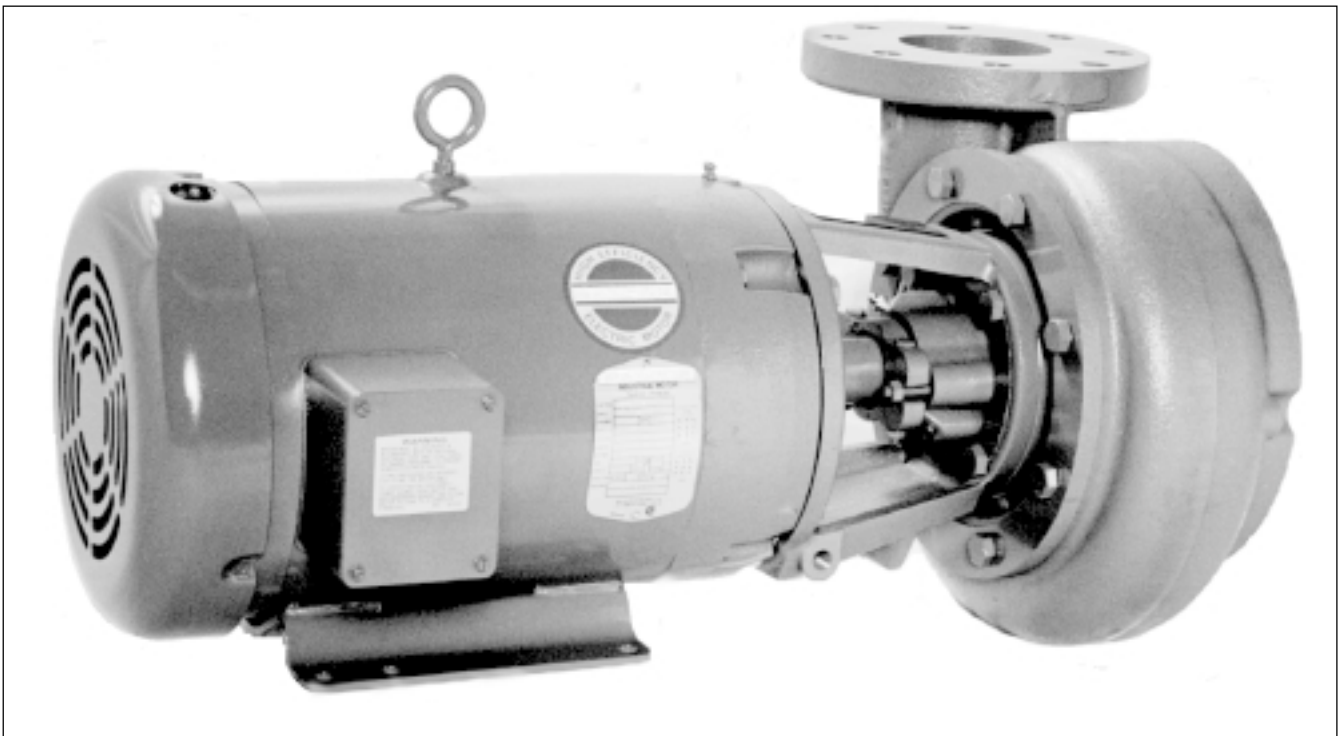
*Dimensions are for TEFC motors only. NA= not applicable  
\*Optional pump foot shown for motors less feet*

Not for construction unless certified, some dimensions may vary  $\pm 1/2"$ . Pump Construction: \_\_\_\_\_

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_  
 PROJECT \_\_\_\_\_ SERIAL NO. \_\_\_\_\_  
 ENGINEER \_\_\_\_\_ LOCATION \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_  
 PUMP Model Size Curve No. GPM Head SP. GR.@Temp.  
 DATA \_\_\_\_\_  
 MOTOR Mfr. HP RPM Volt-Phase-Cycle Frame ENC. Furnished by Mounted by  
 DATA \_\_\_\_\_  
 Shop Order \_\_\_\_\_ Certified by \_\_\_\_\_ Date \_\_\_\_\_

**VERTIFLO** SERIES 1300

Quality Design Features Assure Long, Trouble-Free Service

**WIDE RANGE OF APPLICATIONS:**

- Industrial Process
- Pollution Control
- General Pumping
- Spray Systems
- Deionized Water
- Waste Water
- Clear Liquids
- Corrosive Liquids
- Chemicals
- Acids

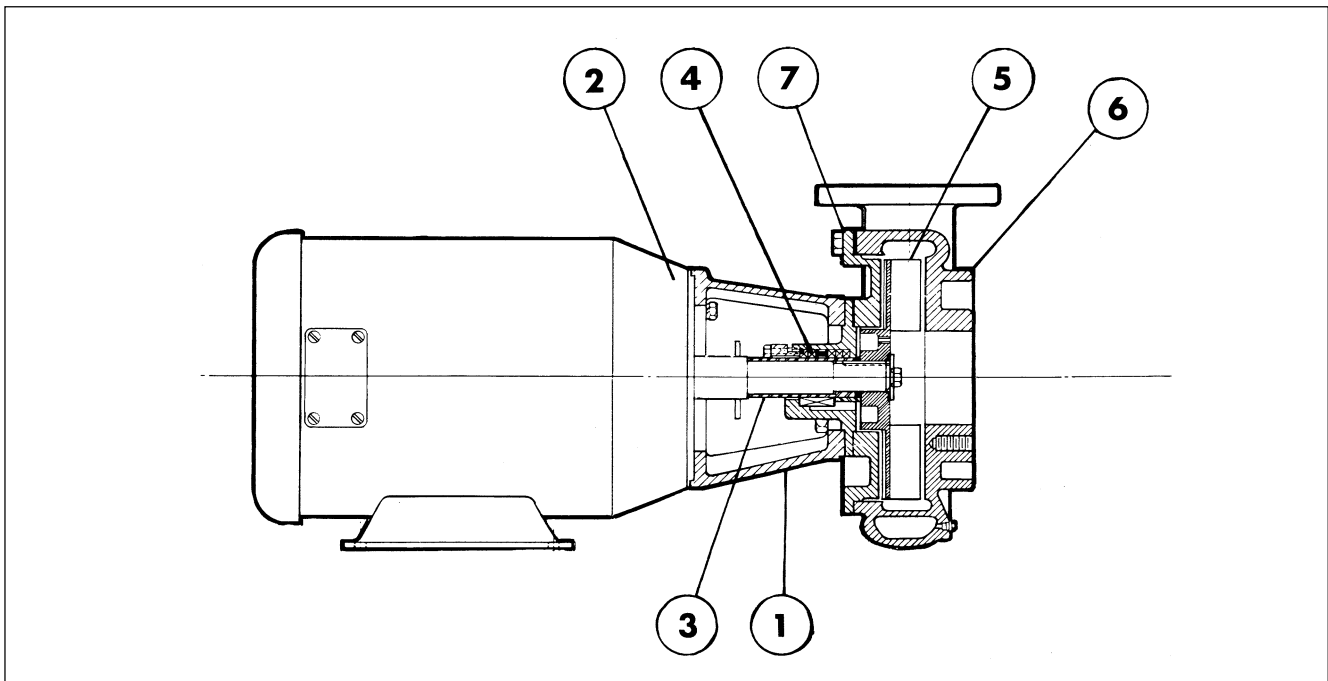
**CAPABILITIES**

- Capacities to 3600 GPM
- Heads To 275 Feet TDH
- Temperature to 250° F
- Back Pull-Out Construction
- Semi-Open Impeller
- Packing or Mechanical Seal

**CONSTRUCTION:**

- Cast Iron
- 316 Stainless Steel Fitted
- All 316 Stainless Steel
- Alloy 20
- CD4MC<sub>u</sub>

*Series 1300 horizontal close-coupled end suction pumps are designed for use with any NEMA Standard JP Shaft Motor. VERTIFLO's close-coupled pumps are designed with back pull-out feature. This important feature allows for easy inspection or service/ maintenance (if ever needed) without disturbing the piping to the pump: An important cost saving feature. Packing or various mechanical seal arrangements are available as standard options of this rugged, dependable product.*



**1. Mounting Bracket**

Rugged cast iron design which assures a solid, dependable pump installation and operation. Three brackets fit all pump sizes.

**2. Motor**

NEMA standard JP shaft extension allows for easy interchangeability to packing, standard mechanical seal or optional single or double mechanical seals of various designs and materials of construction.

**3. Shaft Sealing**

Packed arrangement utilizes a 2-piece split gland, slinger, Teflon® split lantern ring and 5-ring packing set. Grease lubrication is standard with product or water flush available. Wide choice of John Crane and Durametallic mechanical seals of various configurations and materials are optional.

**4. Shaft Sleeve**

316 stainless steel is standard. Positively driven and gasketed, protecting motor shaft from liquid being pumped.

E.I DuPont registered®

**5. Impeller**

Semi-open design which accommodates passage of solids or fines. All impellers have holes near the impeller hub which reduce thrust load and pressure in the packing or seal area. Wiping vanes reduce axial loading and prevent dirt from entering the sealing area. Impeller is keyed to shaft, and an impeller locking screw assures positive attachment.

**6. Casing**

High efficiency volute design. 4X3X10 and larger sizes are double volute, containing a splitter, which reduces bearing loading and shaft deflection; thus extending bearing and packing or mechanical seal life. All suction and discharge openings are flanged for installation ease and integrity.

**7. Back Pull-Out**

All pumps\* are designed with back pull-out feature which allows for removal of all pump rotating components without disturbing the piping connections.

\*except size 2 X 1 1/2 X 12

**Standard**

- All iron construction
- 316 stainless steel shaft sleeve
- Semi-open impeller
- Back pull-out design
- Packed stuffing box or mechanical seal
- Flanged suction and discharge on all pump sizes
- NEMA standard JP shaft motor

**Options**

- 316 stainless steel impeller
- All 316 stainless steel, Alloy 20, CD4MC<sub>u</sub>
- Single or double mechanical seal (various materials)
- Product or fresh water flush to packing or mechanical seal
- Teflon® packing (standard in s.s. and alloy units)
- ODP, TEFC

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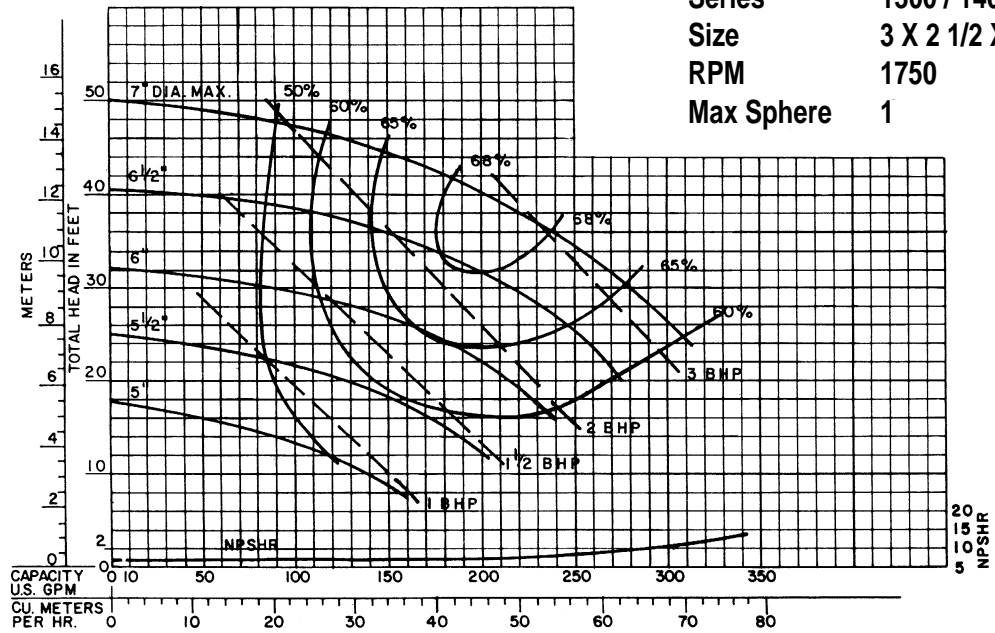
<b>Design Details</b>	<b>Model 1320</b>	<b>Model 1326</b>	<b>Model 1334</b>
Rotation from driver end	CW	CW	CW
Outside diameter of shaft sleeve	1.250	1.625	2.125
Shaft diameter at impeller	0.875	1.250	1.750

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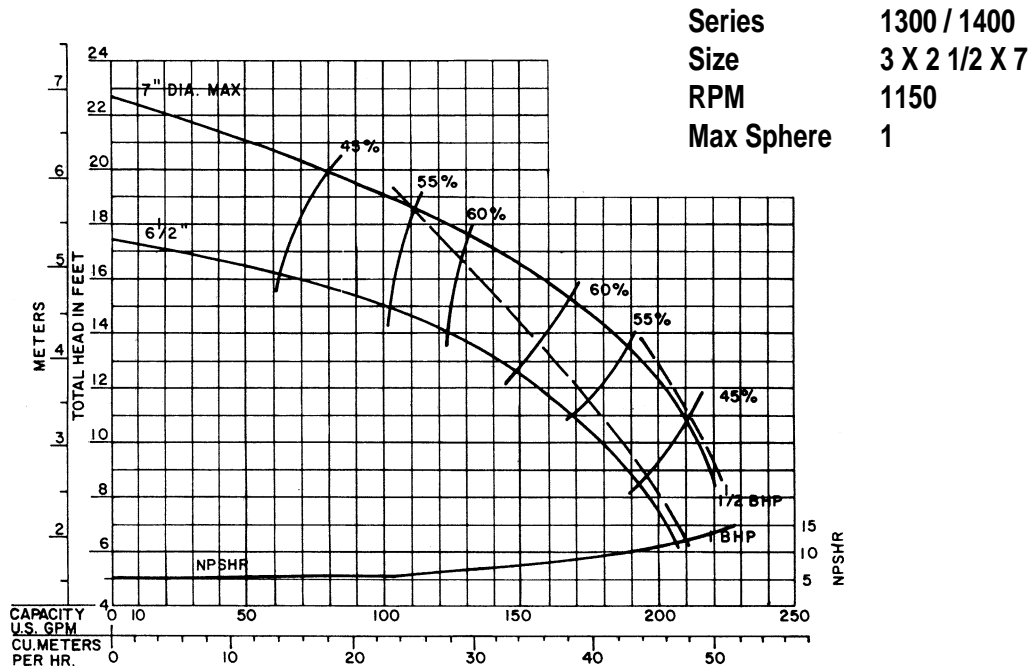


# VERTIFLO PUMP COMPANY Performance Curves

Curve PV-1525



Curve RV-1525



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

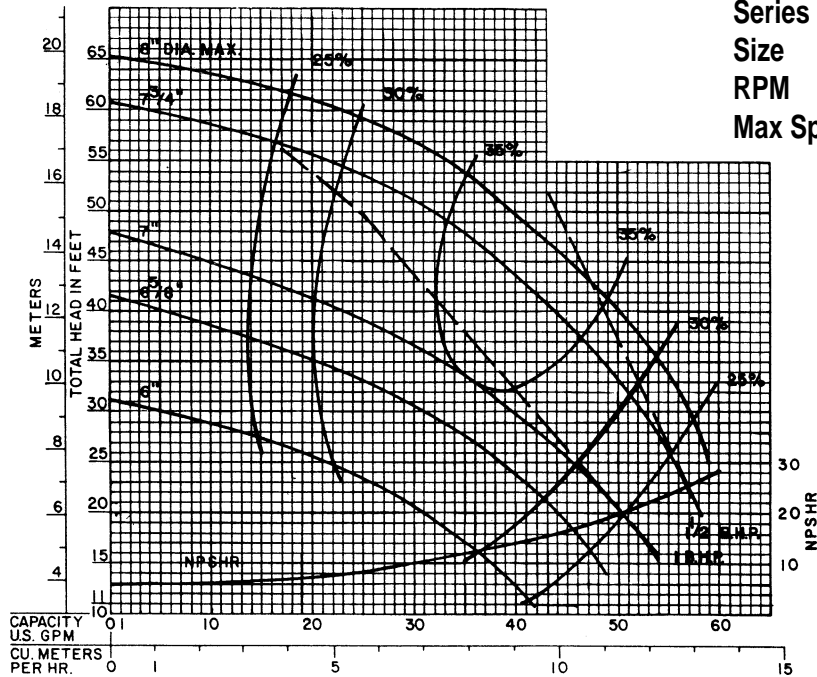
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

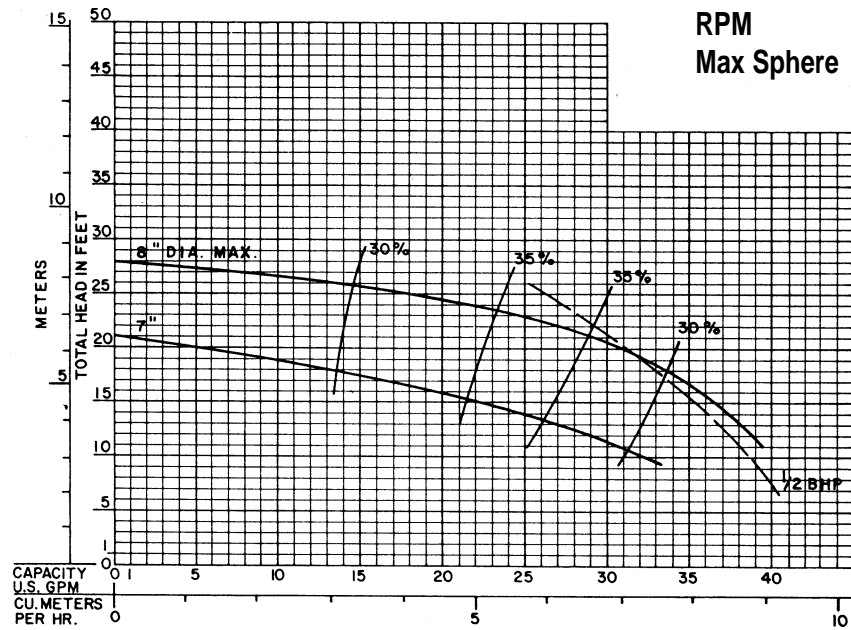
# VERTIFLO PUMP COMPANY Performance Curves

Curve AS-1610



Series 1300 / 1400  
 Size 1 1/2 X 1 X 8  
 RPM 1750  
 Max Sphere 1/4

Curve BS-1610



Series 1300 / 1400  
 Size 1 1/2 X 1 X 8  
 RPM 1150  
 Max Sphere 1/4

1300

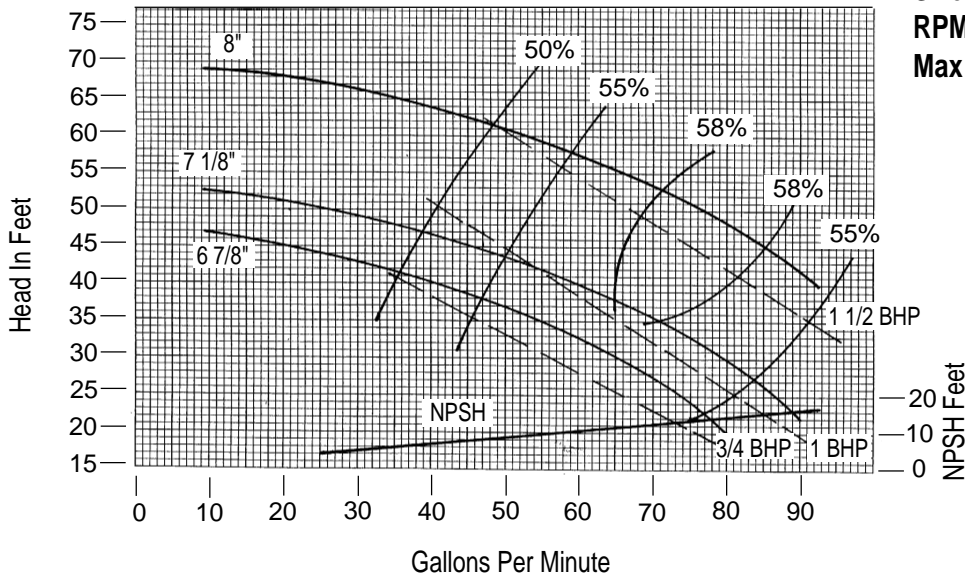
Performance at Casing Discharge Flange  
 Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_  
 PROJECT \_\_\_\_\_  
 ENGINEER \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_  
 CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

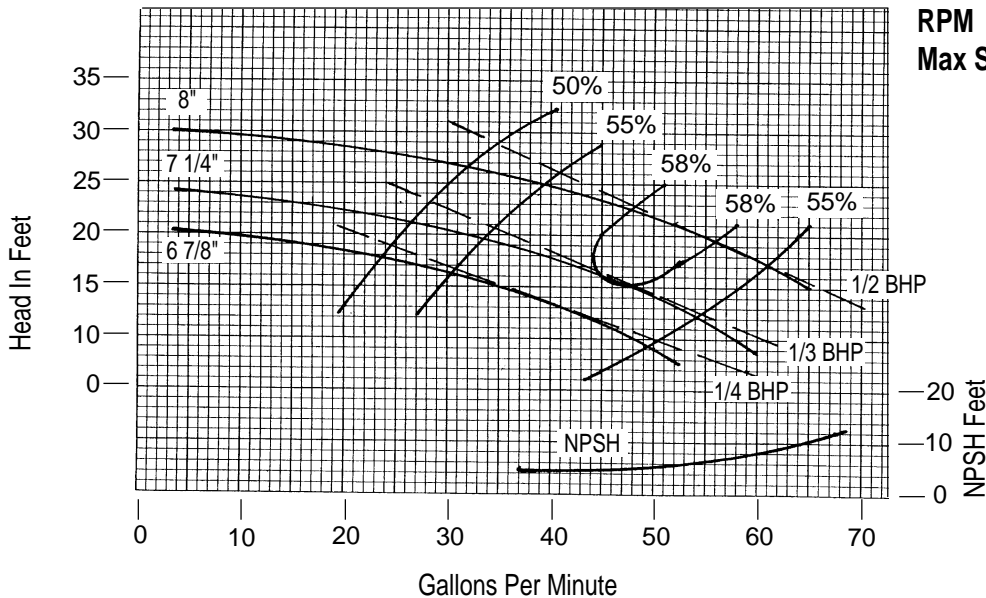
**Curve AS-1612**

Series 1300 / 1400  
 Size 1 1/2 X 1 1/4 X 8  
 RPM 1750  
 Max Sphere 5/16



**Curve BS-1612**

Series 1300 / 1400  
 Size 1 1/2 X 1 1/4 X 8  
 RPM 1150  
 Max Sphere 5/16



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

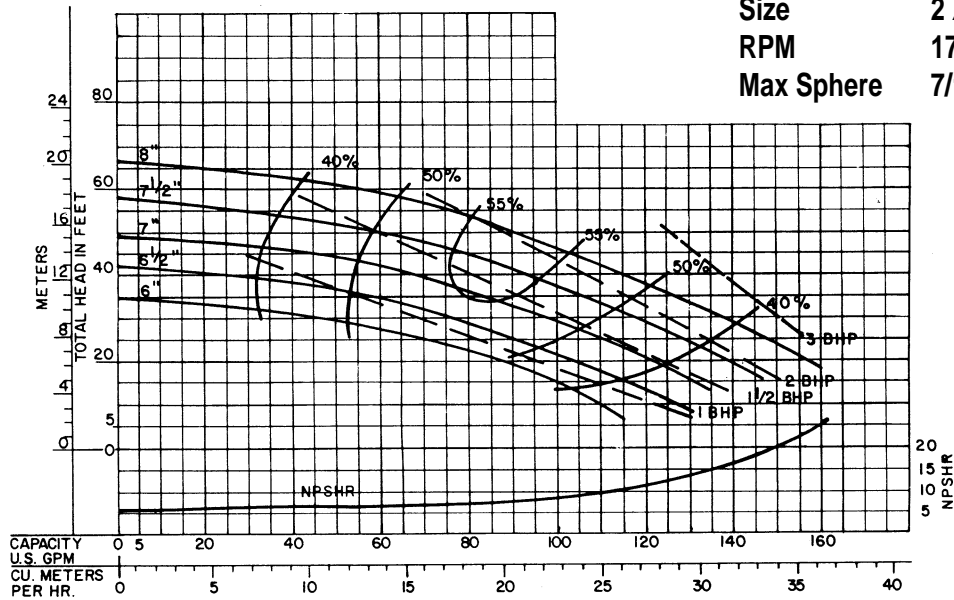
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

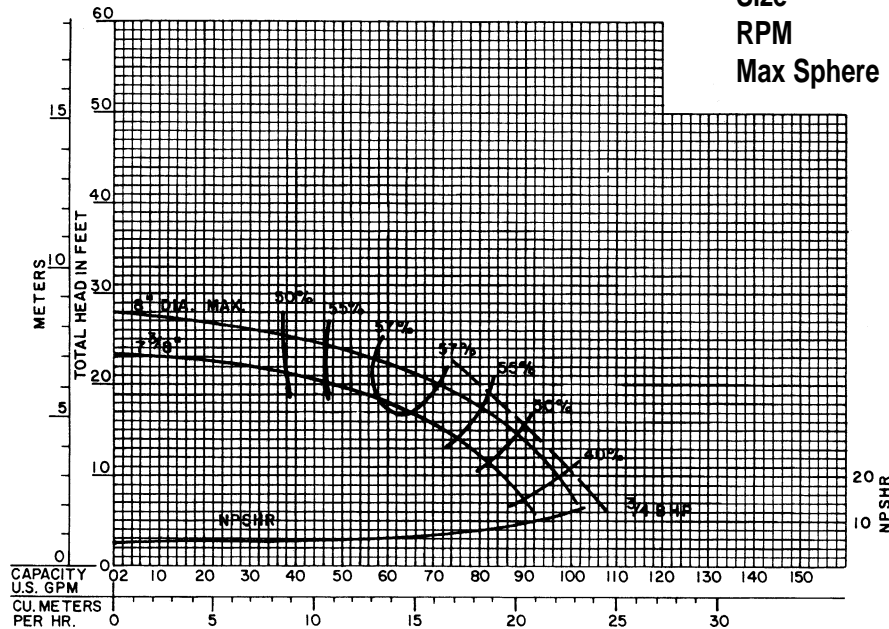
Curve BS-1615

Series 1300 / 1400  
 Size 2 X 1 1/2 X 8  
 RPM 1750  
 Max Sphere 7/16



Curve CS-1615

Series 1300 / 1400  
 Size 2 X 1 1/2 X 8  
 RPM 1150  
 Max Sphere 7/16



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

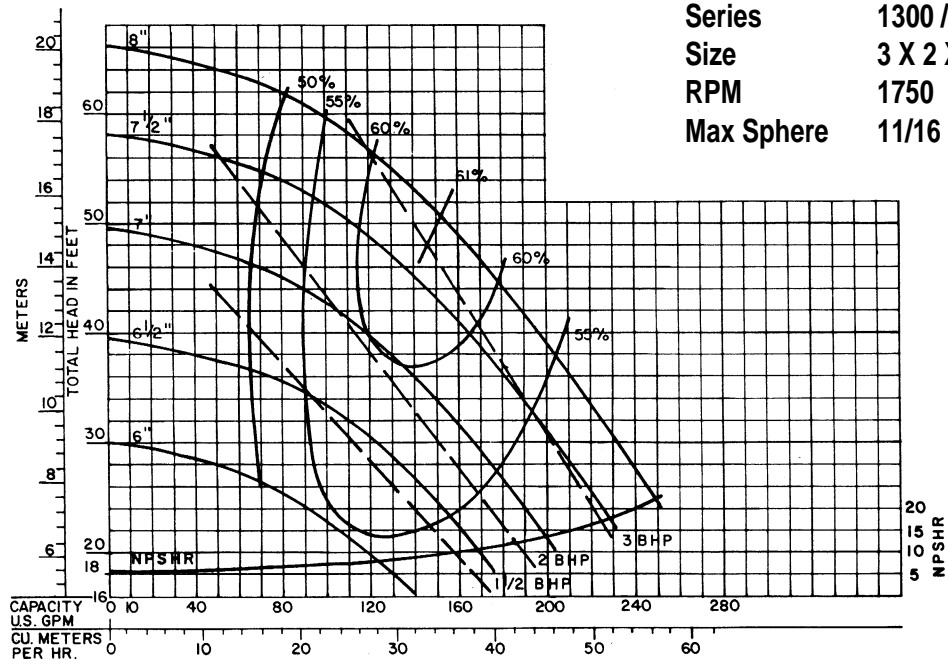
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

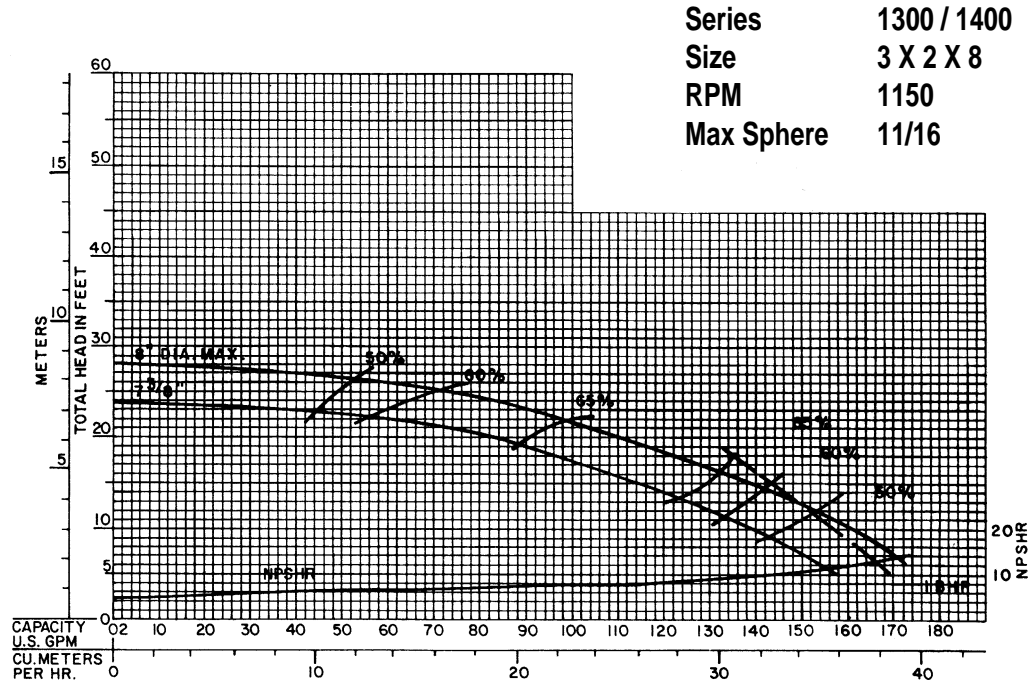
1300

# VERTIFLO PUMP COMPANY Performance Curves

Curve CS-1620



Curve DS-1620



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

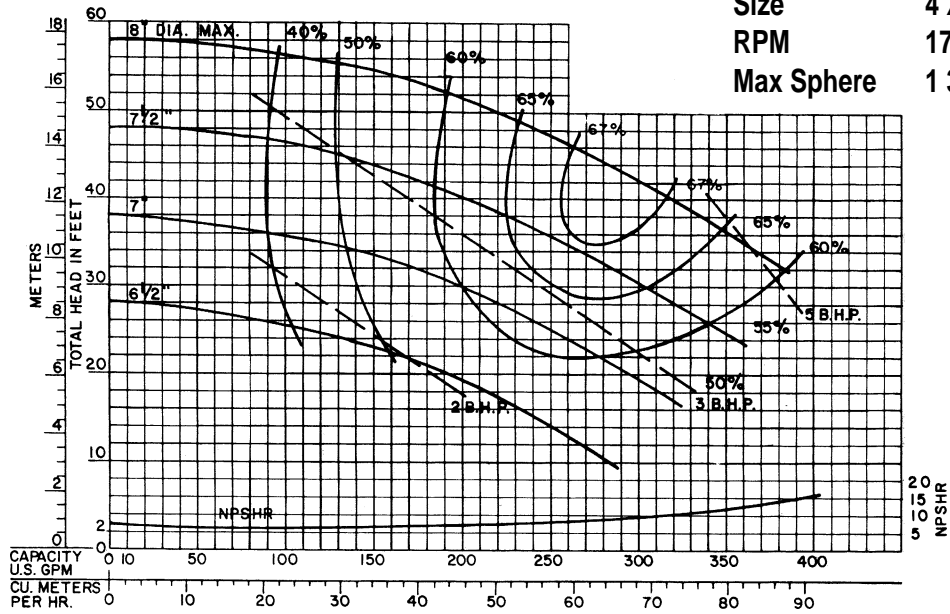
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

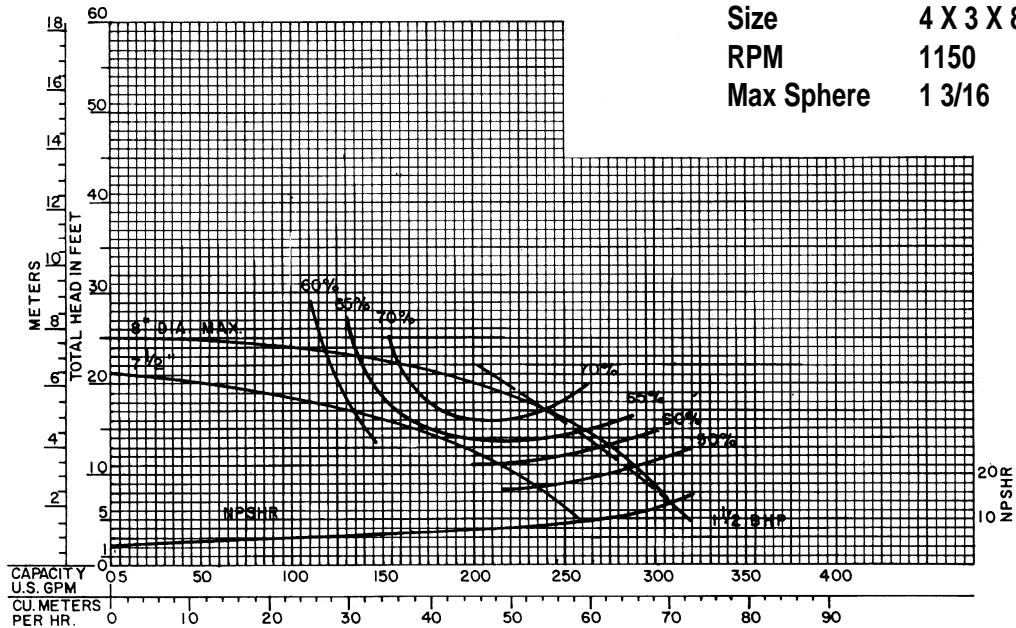
Curve CS-1630

Series 1300 / 1400  
 Size 4 X 3 X 8  
 RPM 1750  
 Max Sphere 1 3/16



Curve DS-1630

Series 1300 / 1400  
 Size 4 X 3 X 8  
 RPM 1150  
 Max Sphere 1 3/16



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

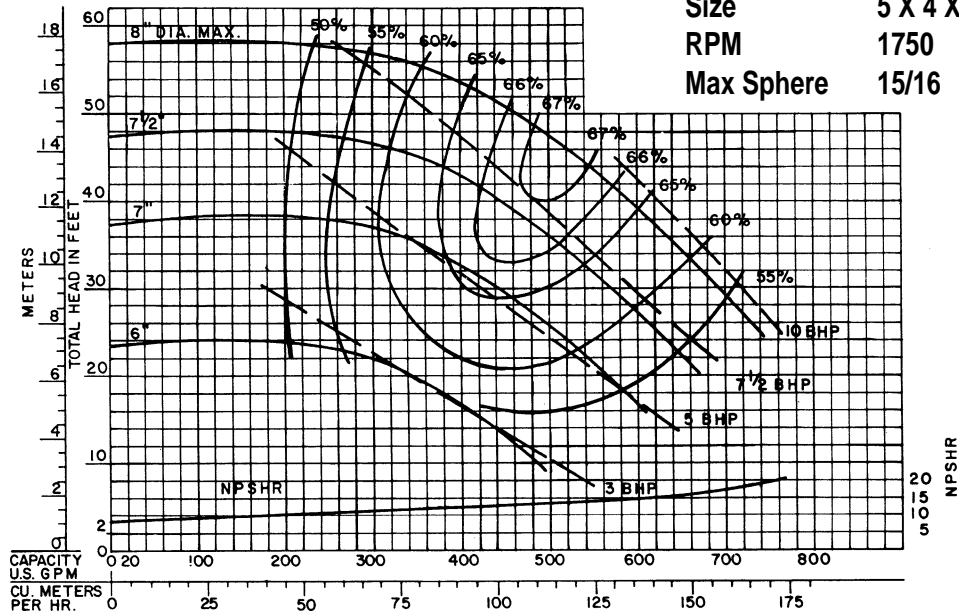
CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

1300

# VERTIFLO PUMP COMPANY Performance Curves

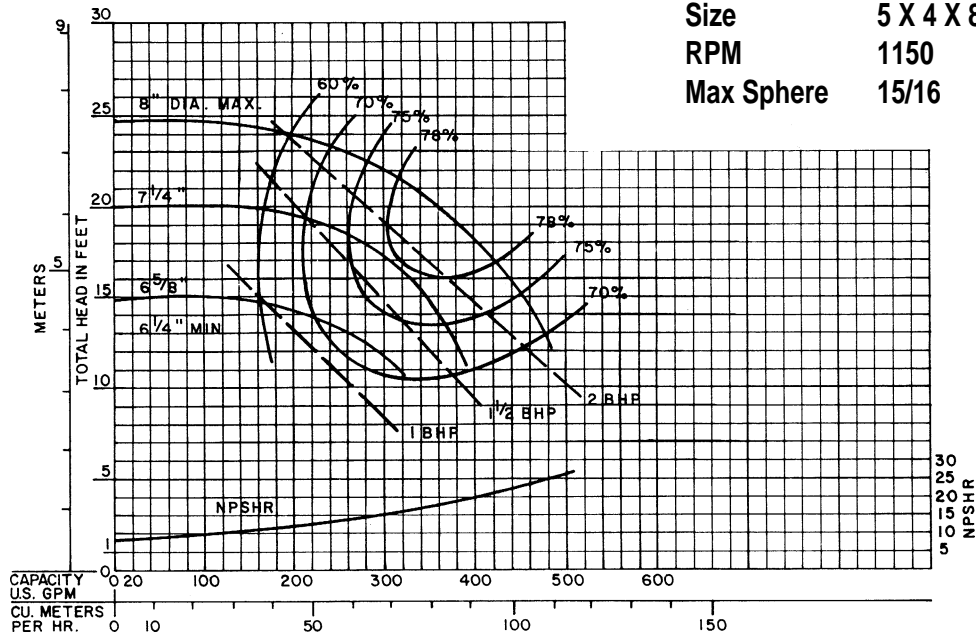
Curve ES-1640

Series 1300 / 1400  
 Size 5 X 4 X 8  
 RPM 1750  
 Max Sphere 15/16



Curve DS-1640

Series 1300 / 1400  
 Size 5 X 4 X 8  
 RPM 1150  
 Max Sphere 15/16



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

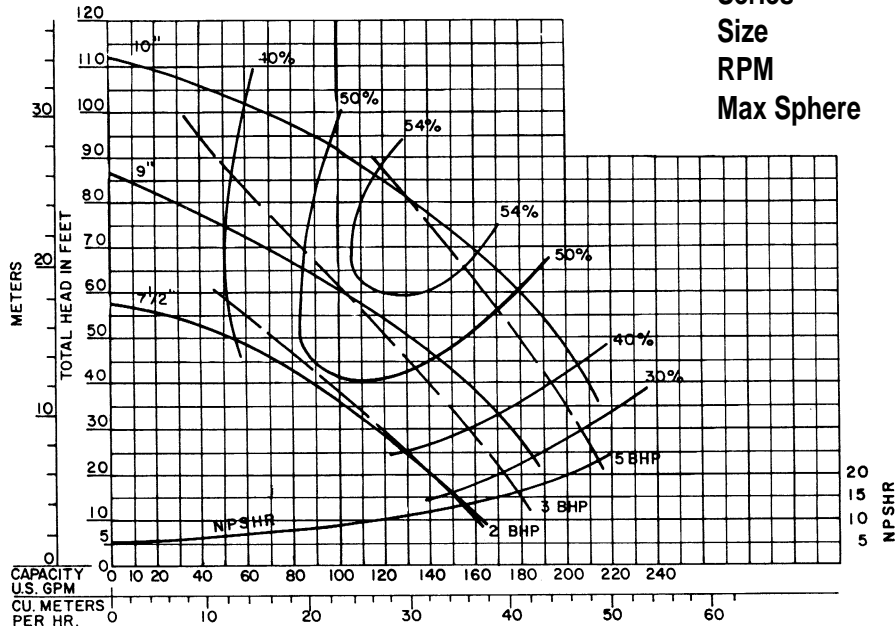
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

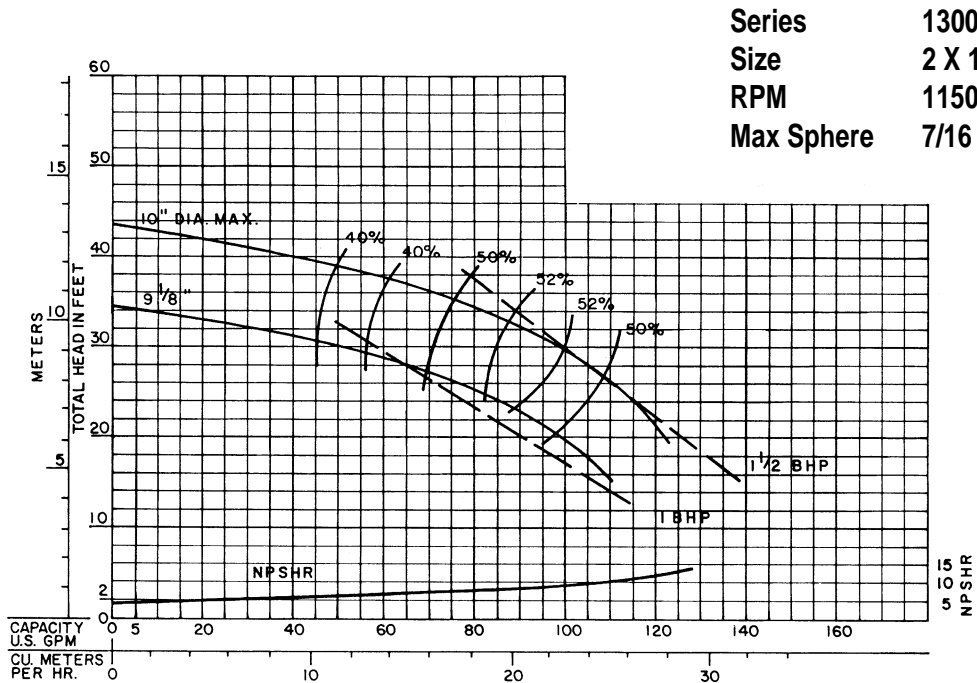
CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

Curve SM-1915



Curve TM-1915



1300

Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

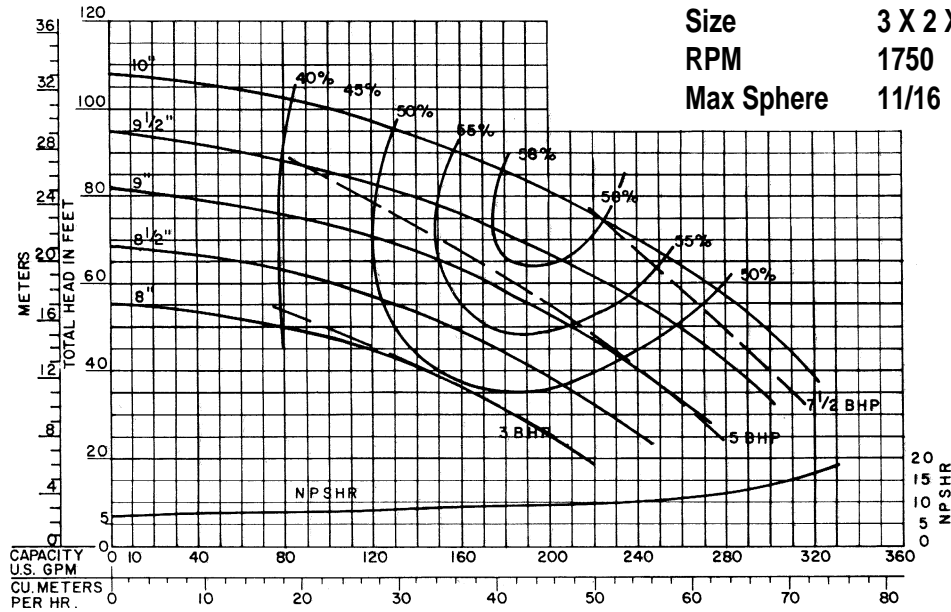
CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_



# VERTIFLO PUMP COMPANY Performance Curves

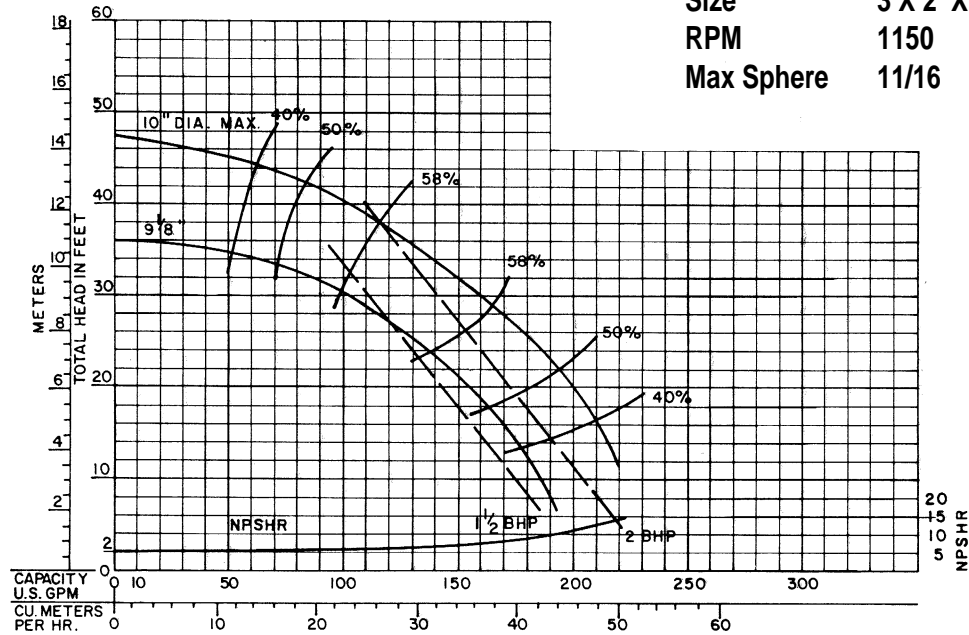
Curve JM-1720

Series 1300 / 1400  
 Size 3 X 2 X 10  
 RPM 1750  
 Max Sphere 11/16



Curve KM-1720

Series 1300 / 1400  
 Size 3 X 2 X 10  
 RPM 1150  
 Max Sphere 11/16



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

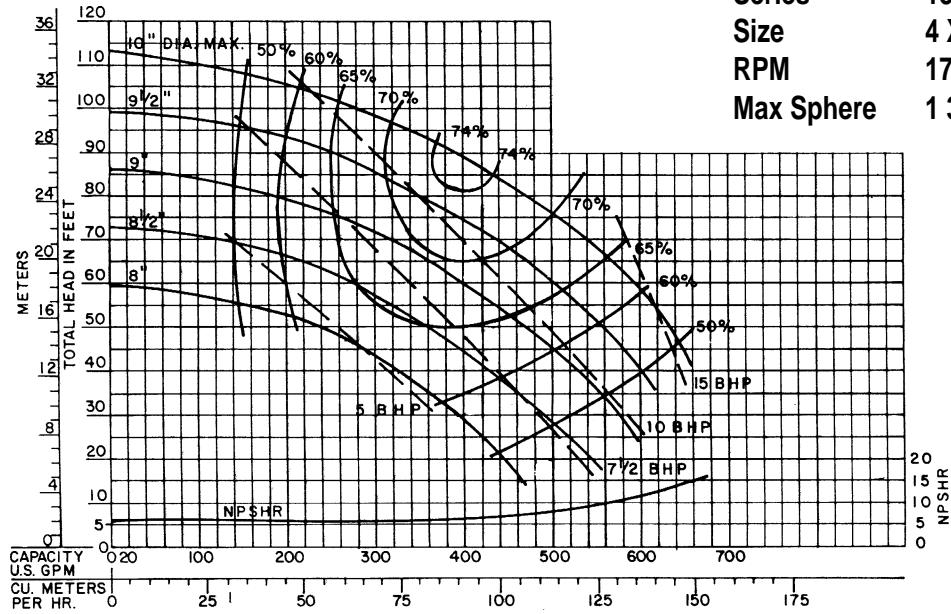
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

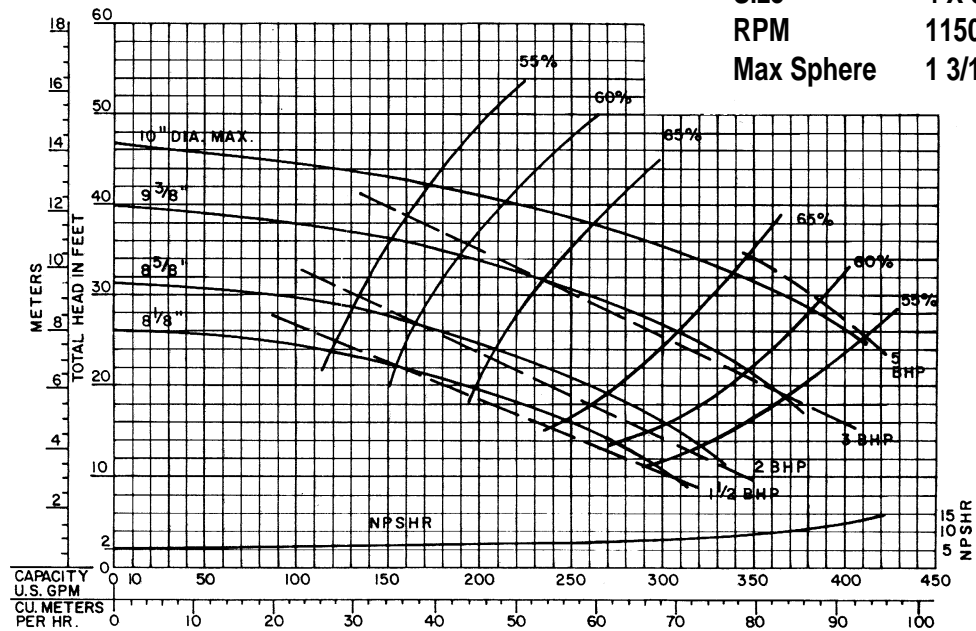
# VERTIFLO PUMP COMPANY Performance Curves

**Curve RM-1730**



Series 1300 / 1400  
 Size 4 X 3 X 10  
 RPM 1750  
 Max Sphere 1 3/16

**Curve SM-1730**



Series 1300 / 1400  
 Size 4 X 3 X 10  
 RPM 1150  
 Max Sphere 1 3/16

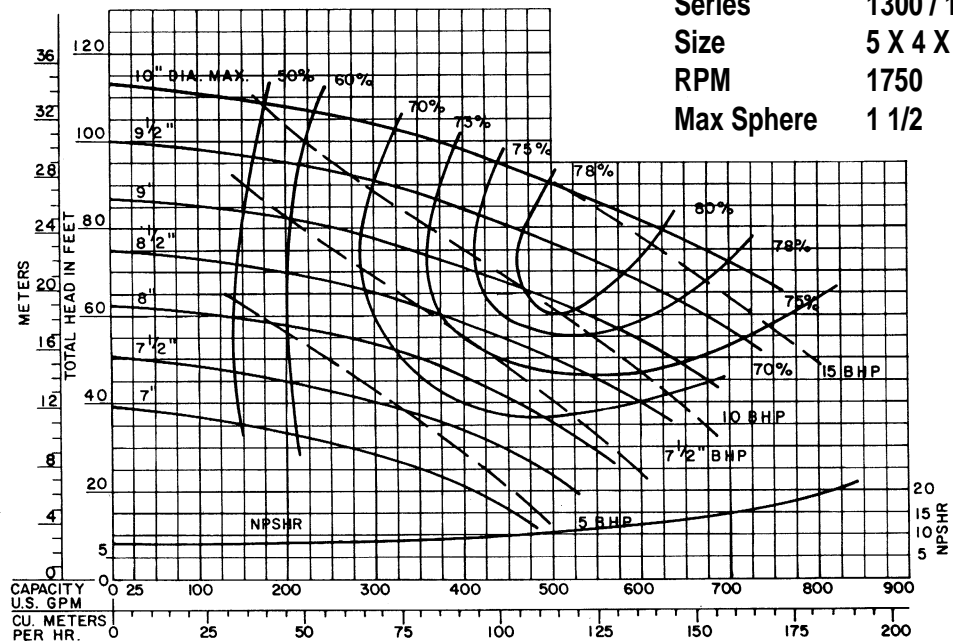
1300

Performance at Casing Discharge Flange  
 Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

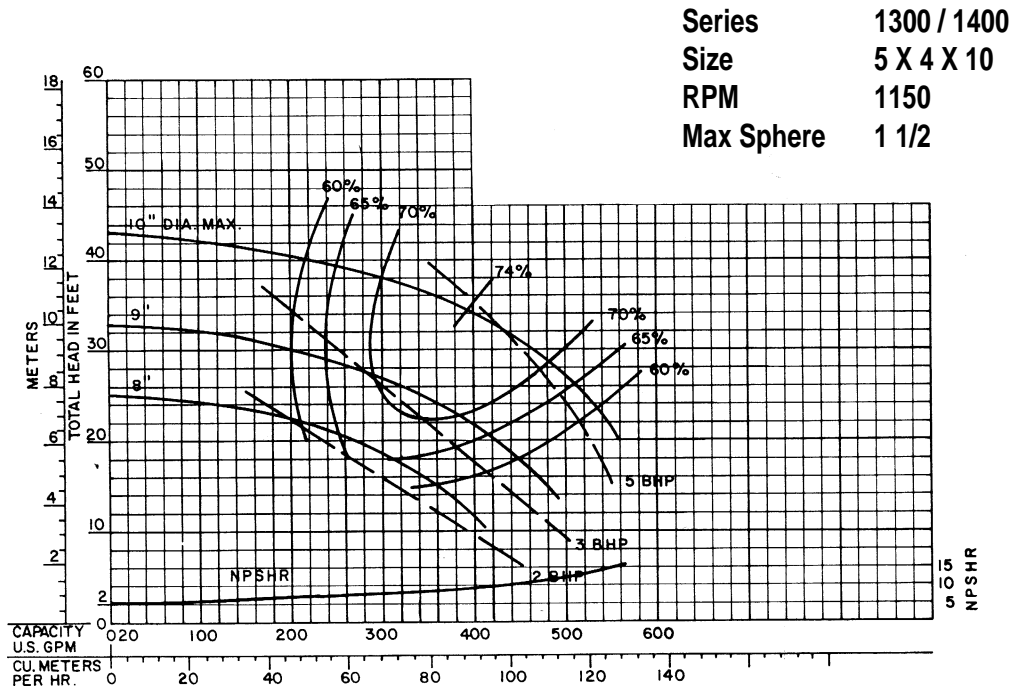
CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_  
 PROJECT \_\_\_\_\_  
 ENGINEER \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_  
 CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

Curve TM-1740



Curve UM-1740



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

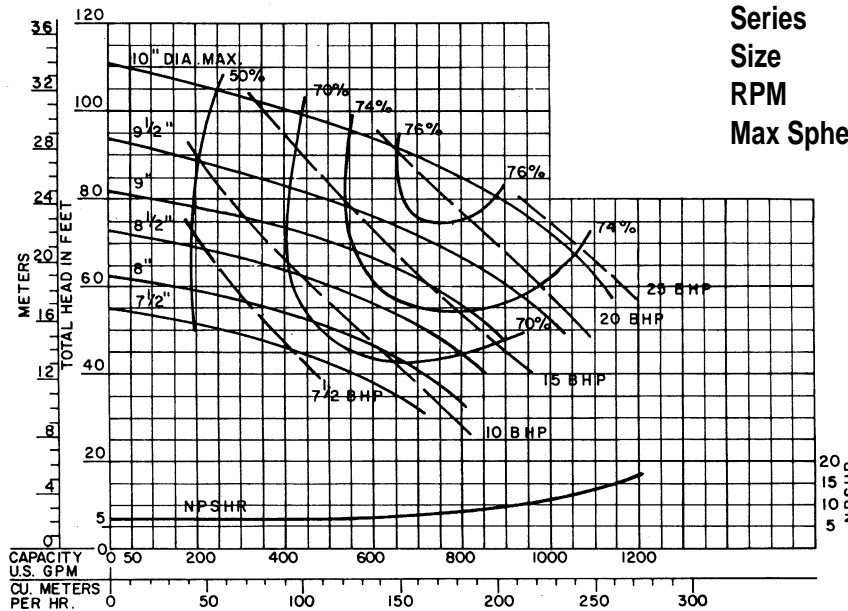
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

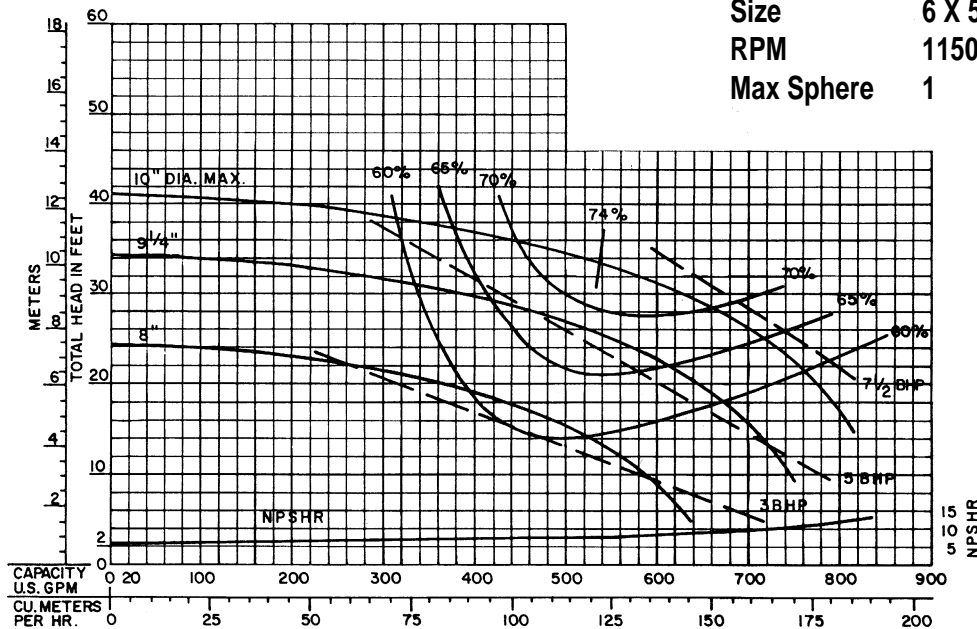
# VERTIFLO PUMP COMPANY Performance Curves

Curve UM-1750



Series 1300 / 1400  
 Size 6 X 5 X 10  
 RPM 1750  
 Max Sphere 1

Curve VM-1750



Series 1300 / 1400  
 Size 6 X 5 X 10  
 RPM 1150  
 Max Sphere 1

1300

Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

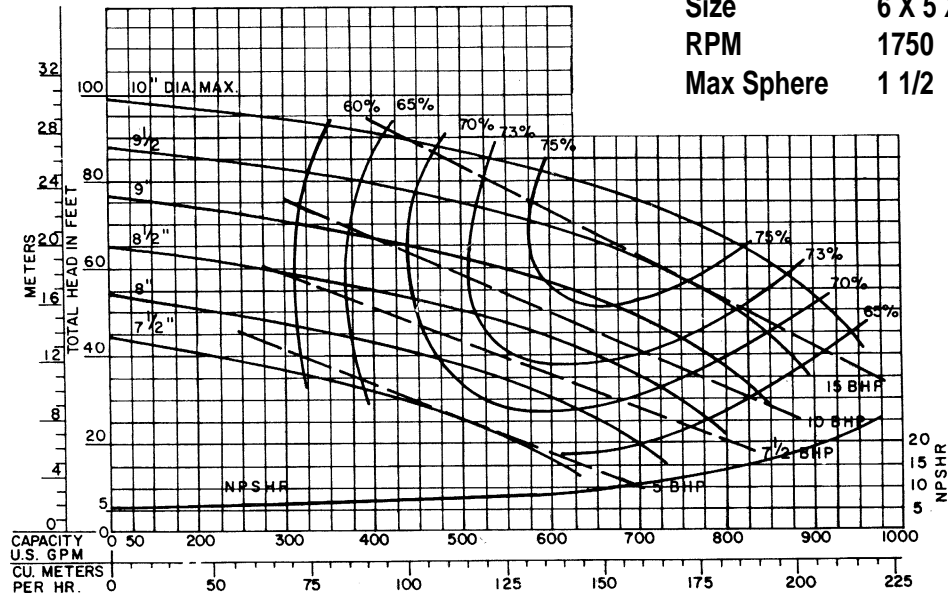
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

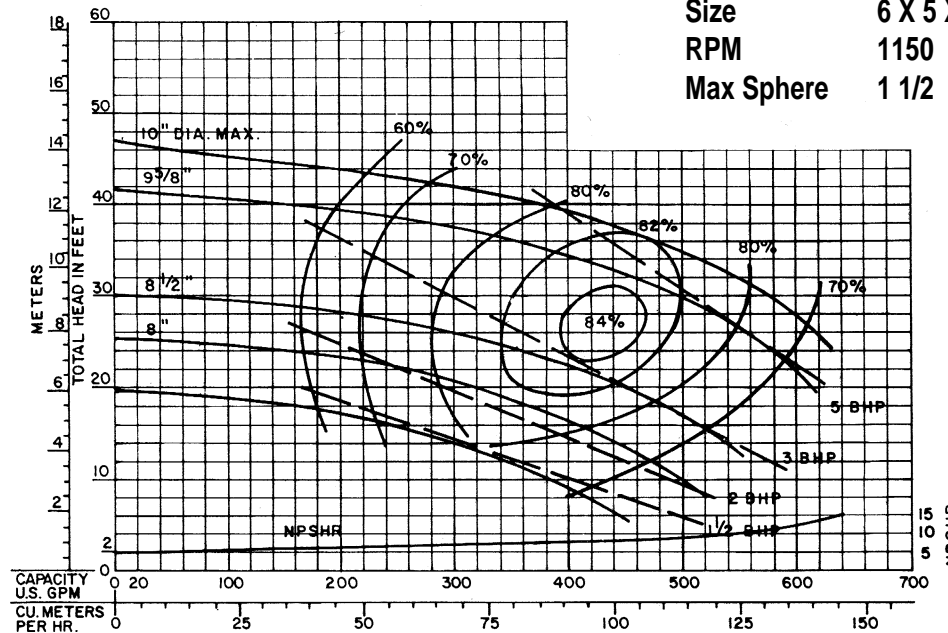
Curve SM-1750

Series 1300 / 1400  
 Size 6 X 5 X 10A  
 RPM 1750  
 Max Sphere 1 1/2



Curve SM-1850

Series 1300 / 1400  
 Size 6 X 5 X 10A  
 RPM 1150  
 Max Sphere 1 1/2



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

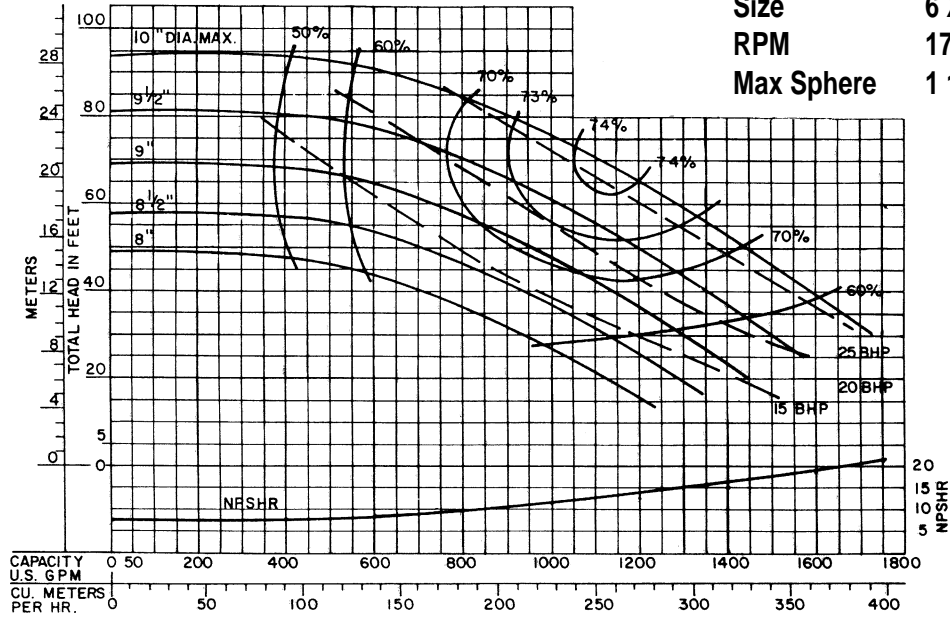
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

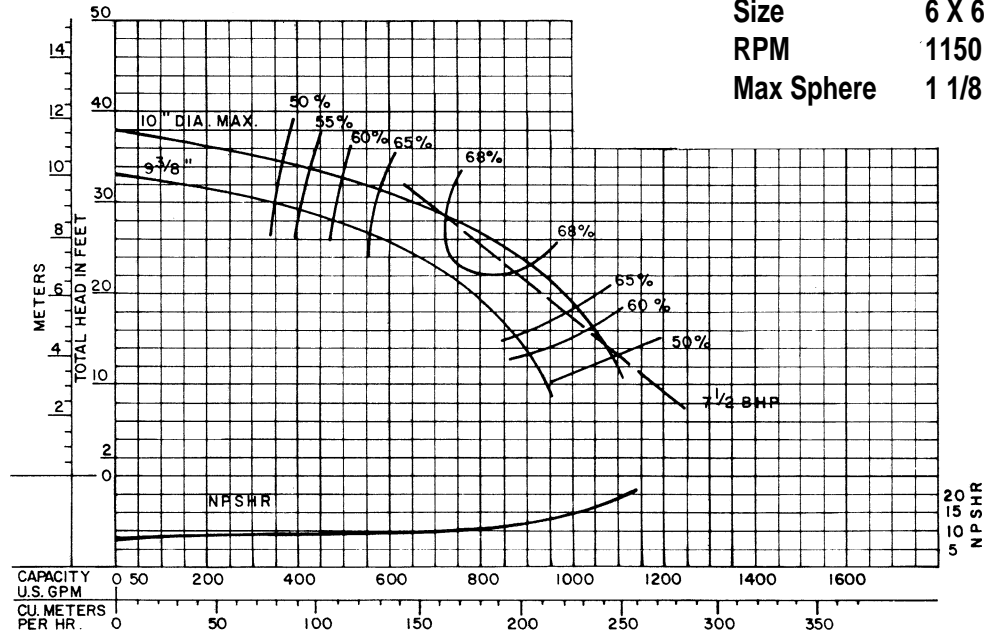
Curve TM-1760

Series 1300 / 1400  
 Size 6 X 6 X 10  
 RPM 1750  
 Max Sphere 1 1/8



Curve UM-1760

Series 1300 / 1400  
 Size 6 X 6 X 10  
 RPM 1150  
 Max Sphere 1 1/8



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

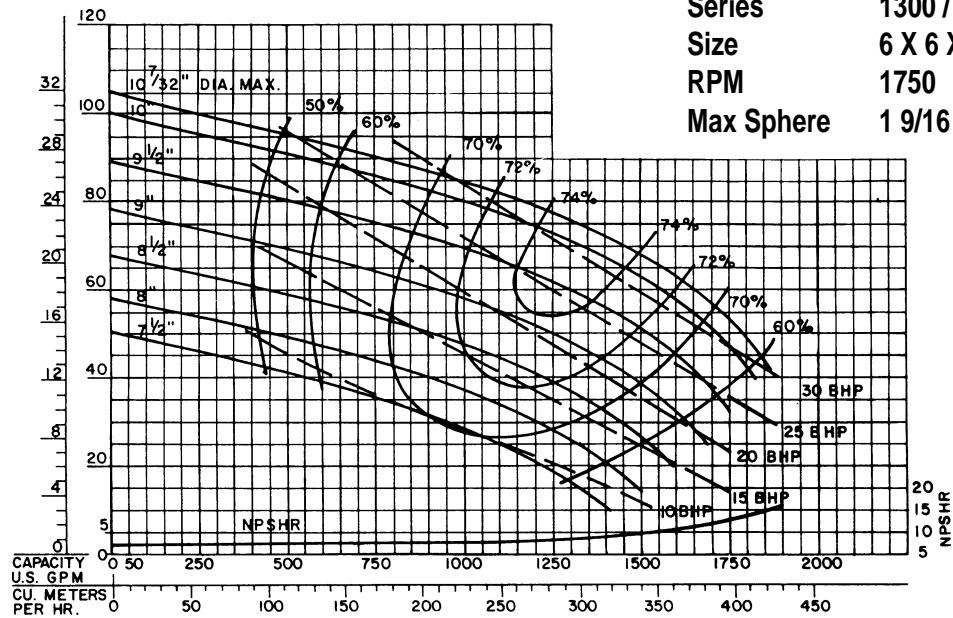
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

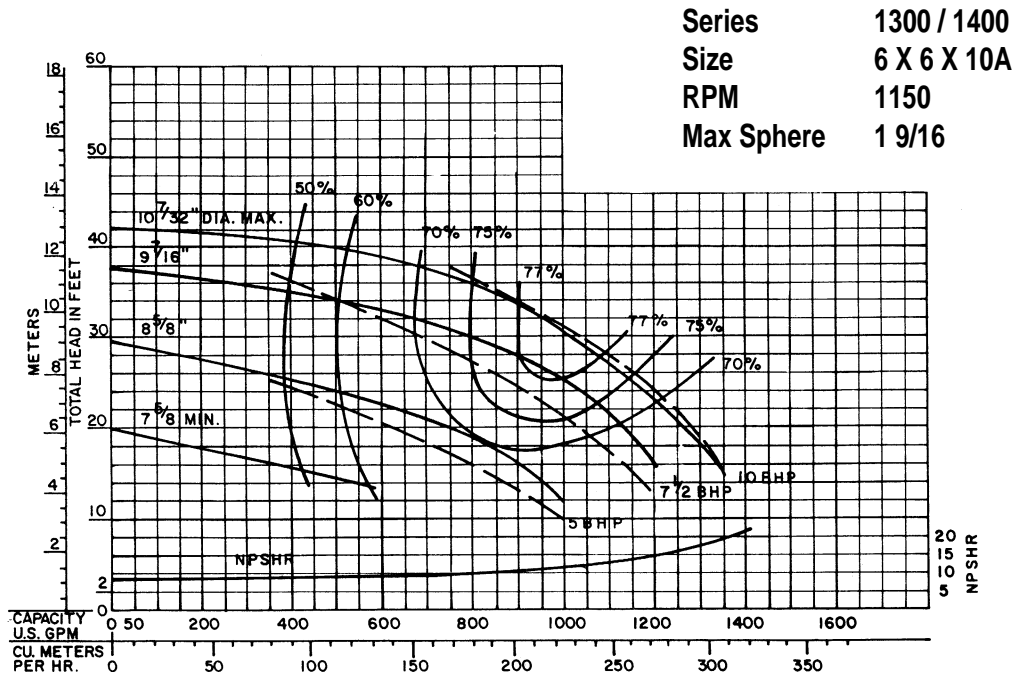
1300

# VERTIFLO PUMP COMPANY Performance Curves

Curve LM-1760



Curve LM-1860



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

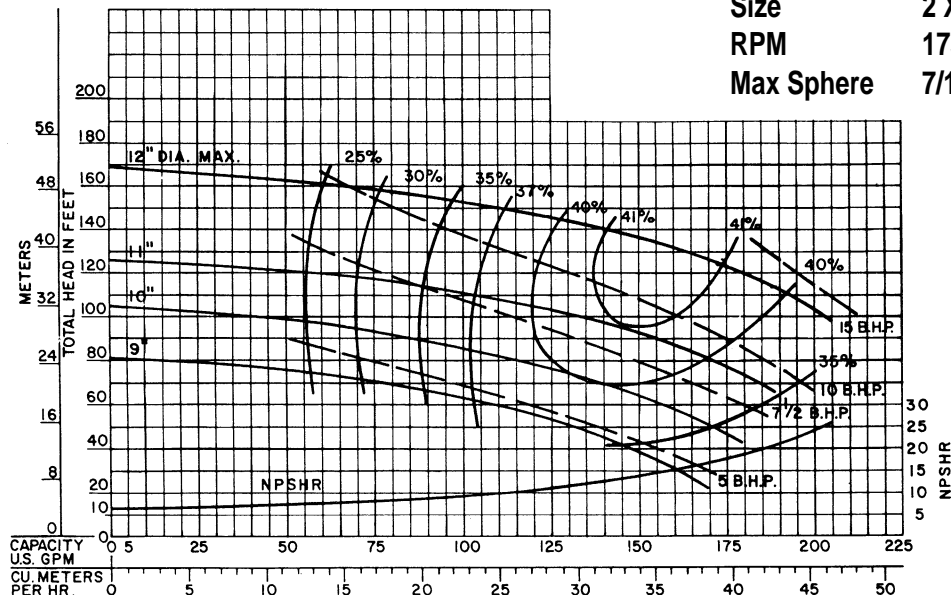
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

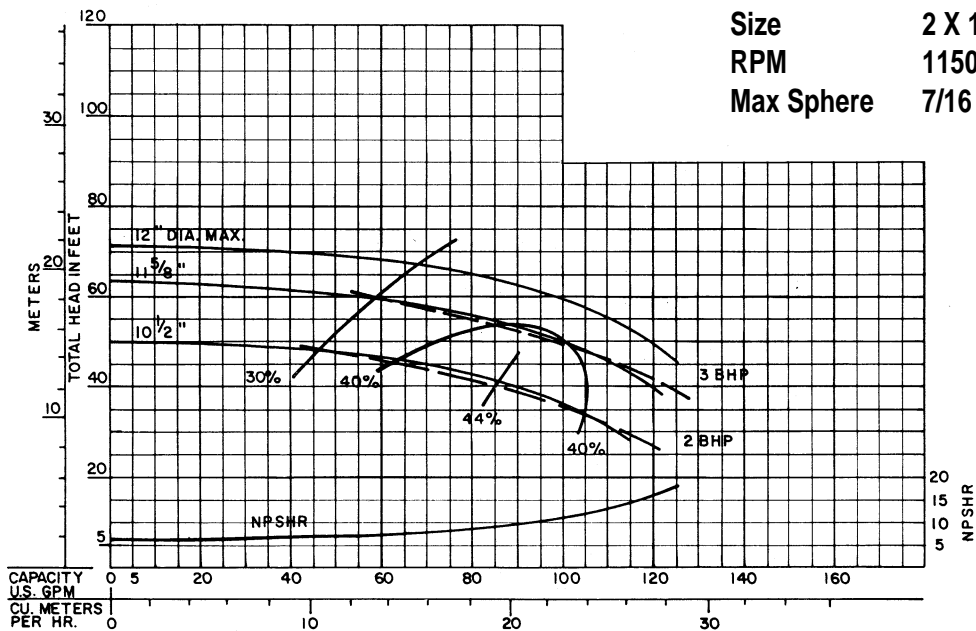
Curve KL-1915

Series 1300 / 1400  
 Size 2 X 1 1/2 X 12  
 RPM 1750  
 Max Sphere 7/16



Curve LL-1915

Series 1300 / 1400  
 Size 2 X 1 1/2 X 12  
 RPM 1150  
 Max Sphere 7/16



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

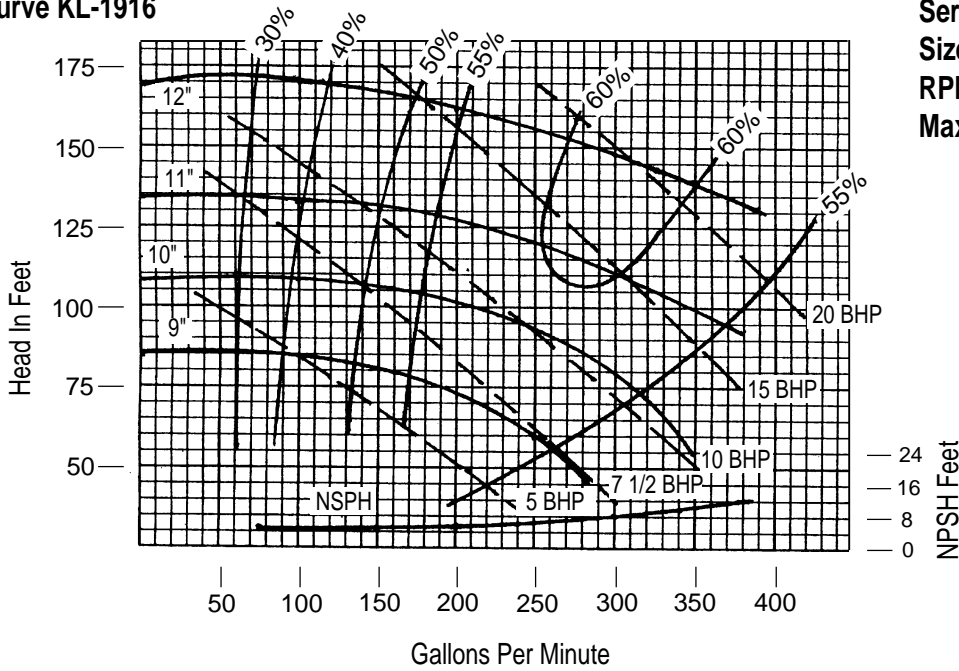
CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

1300



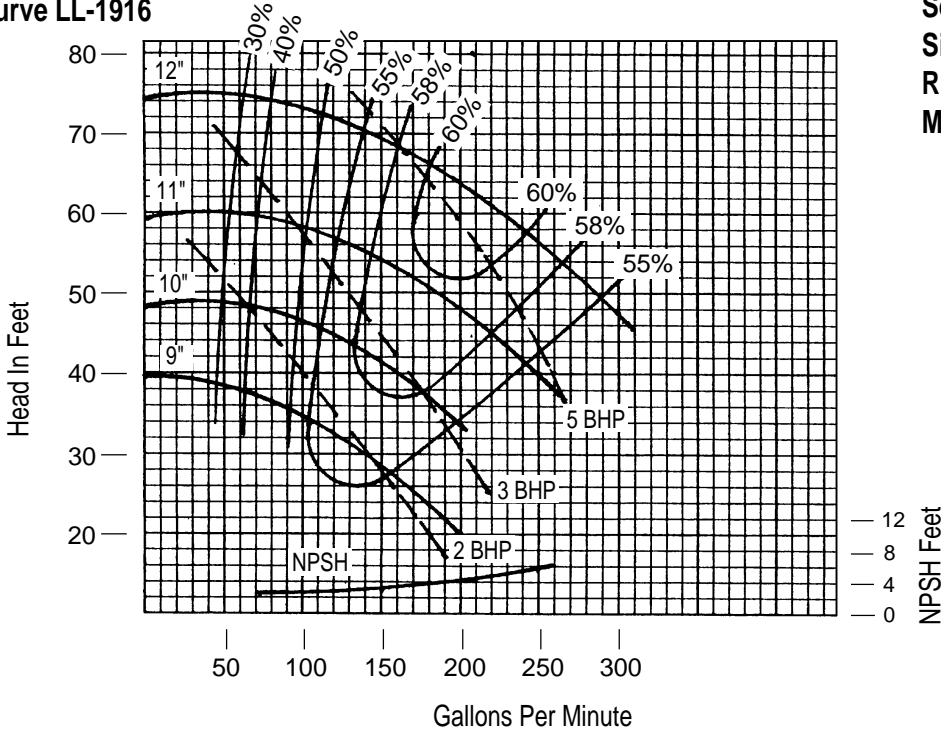
# VERTIFLO PUMP COMPANY Performance Curves

**Curve KL-1916**



Series 1300/1400  
 Size 3 X 2 X 12  
 RPM 1750  
 Max Sphere 3/4

**Curve LL-1916**



Series 1300/1400  
 Size 3 X 2 X 12  
 RPM 1150  
 Max Sphere 3/4

Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

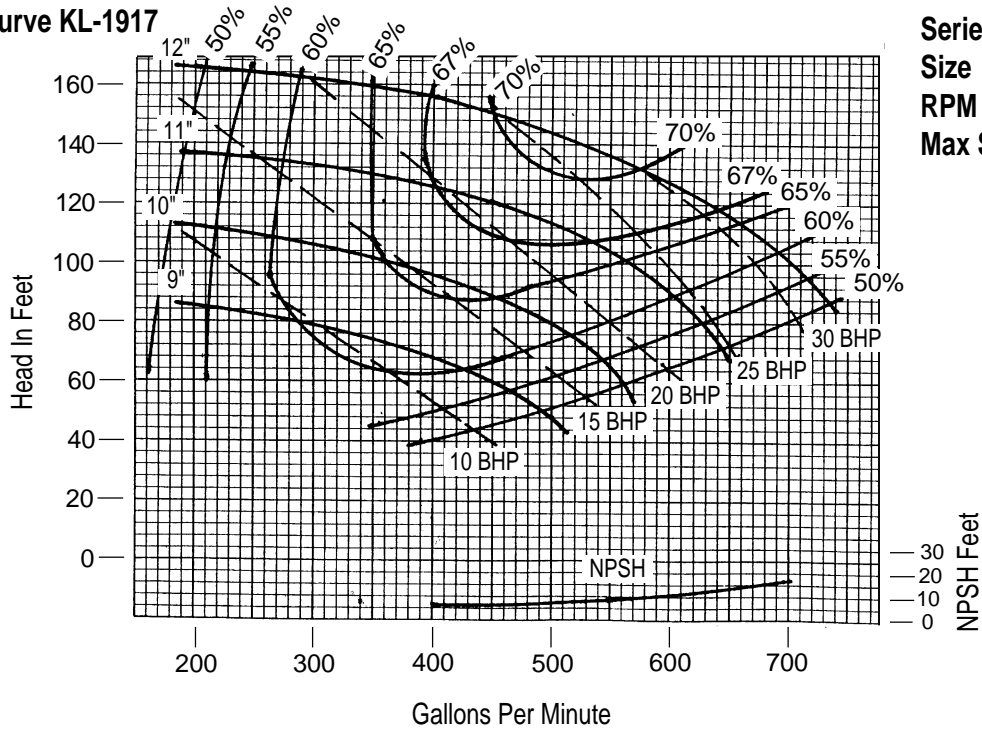
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

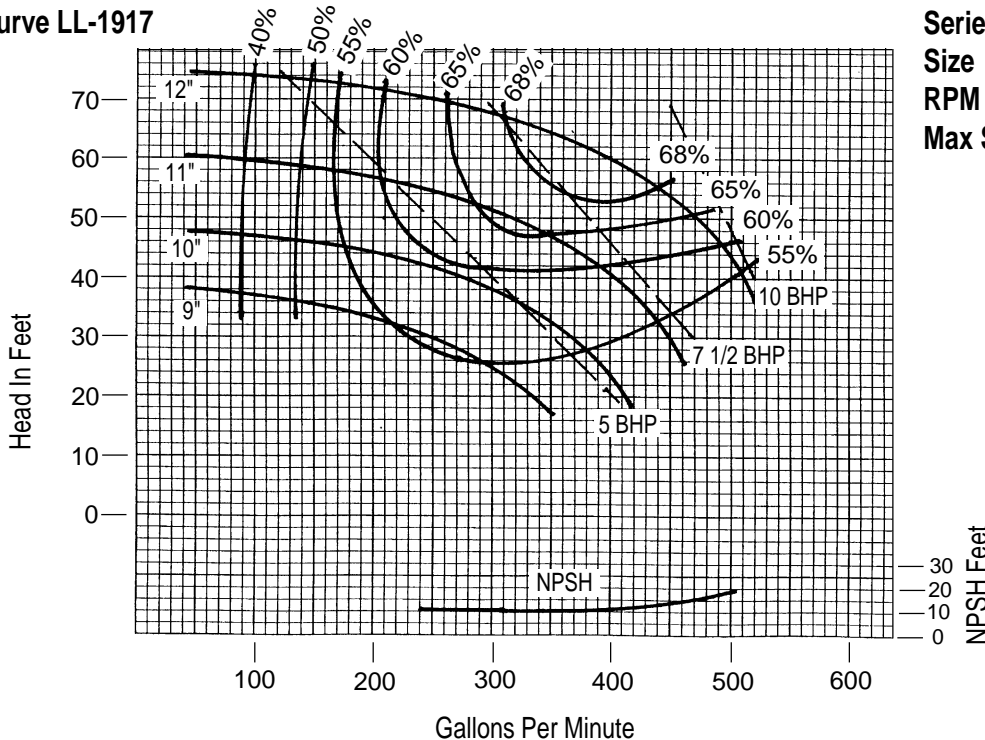
# VERTIFLO PUMP COMPANY Performance Curves

**Curve KL-1917**



**Series** 1300 / 1400  
**Size** 4 X 3 X 12  
**RPM** 1750  
**Max Sphere** 1 1/4

**Curve LL-1917**



**Series** 1300 / 1400  
**Size** 4 X 3 X 12  
**RPM** 1150  
**Max Sphere** 1 1/4

Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

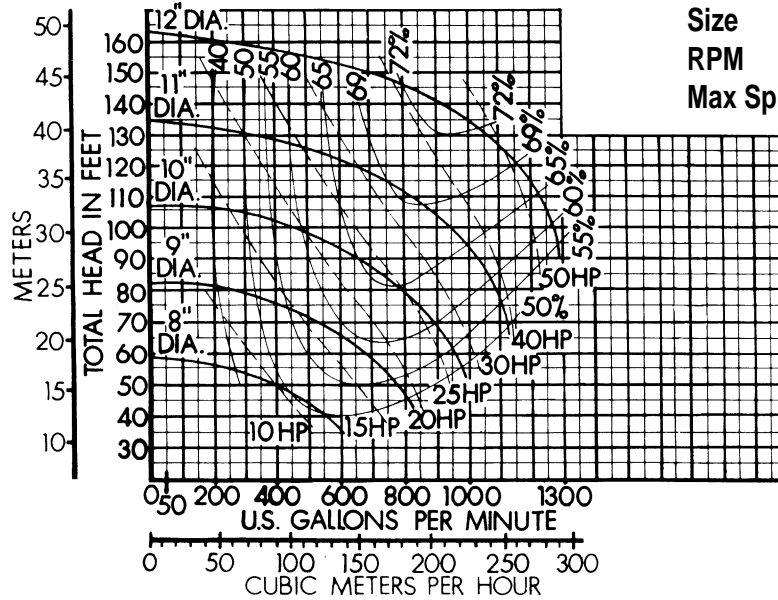
CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

**1300**

# VERTIFLO PUMP COMPANY Performance Curves

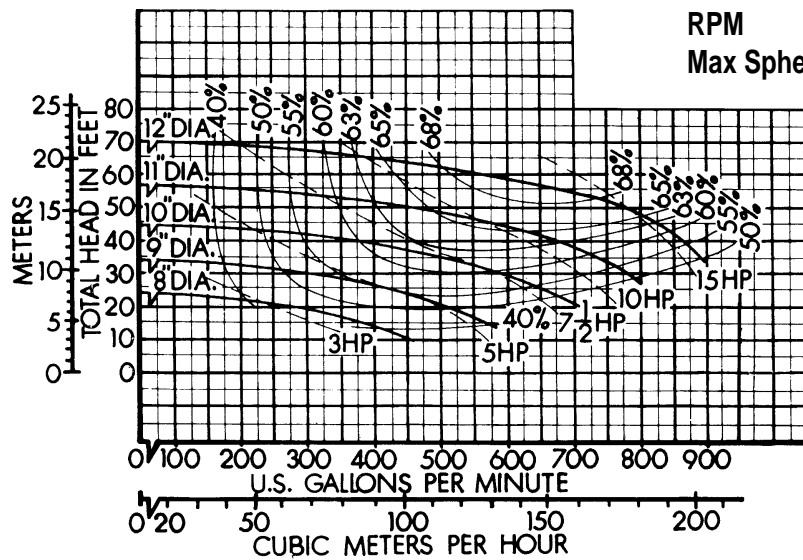
Curve 64124

Series 1300 / 1400  
 Size 6 X 4 X 12  
 RPM 1750  
 Max Sphere 1 1/2



Curve 64126

Series 1300 / 1400  
 Size 6 X 4 X 12  
 RPM 1150  
 Max Sphere 1 1/2



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

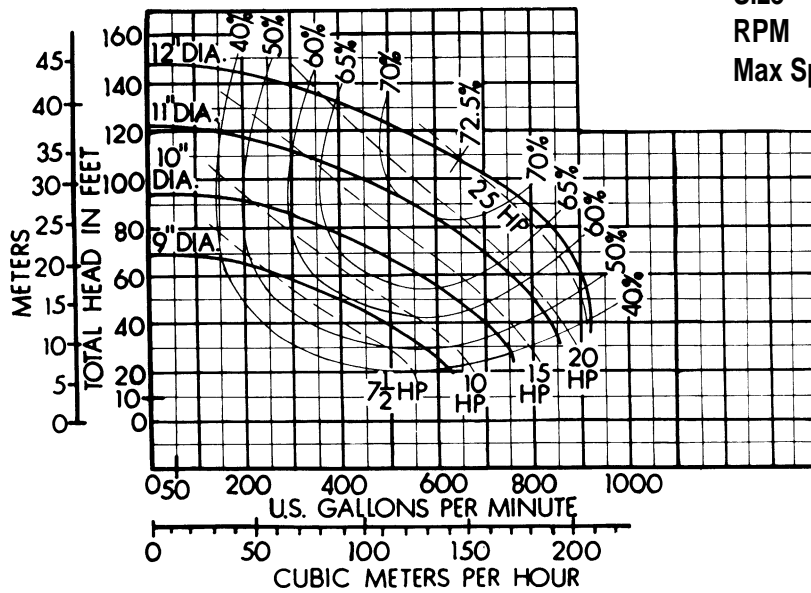
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

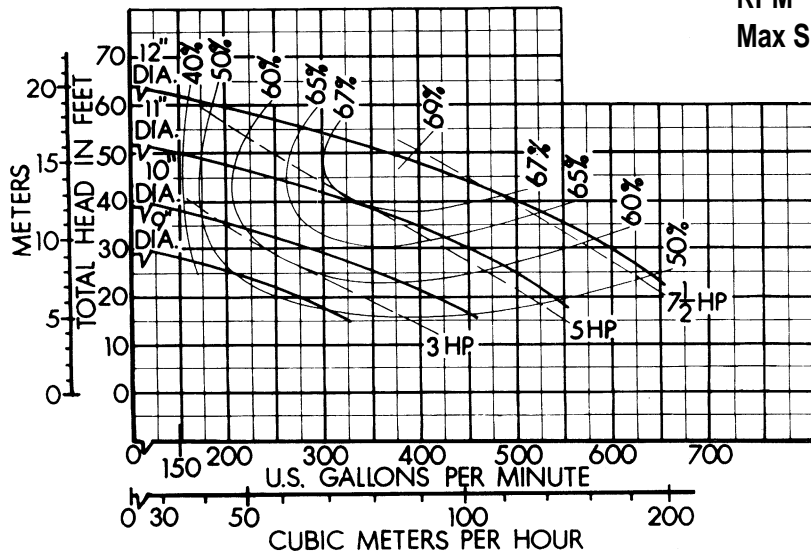
Curve 6412A4

Series 1300 / 1400  
 Size 6 X 4 X 12A  
 RPM 1750  
 Max Sphere 1 1/8



Curve 6412A6

Series 1300 / 1400  
 Size 6 X 4 X 12A  
 RPM 1150  
 Max Sphere 1 1/8



1300

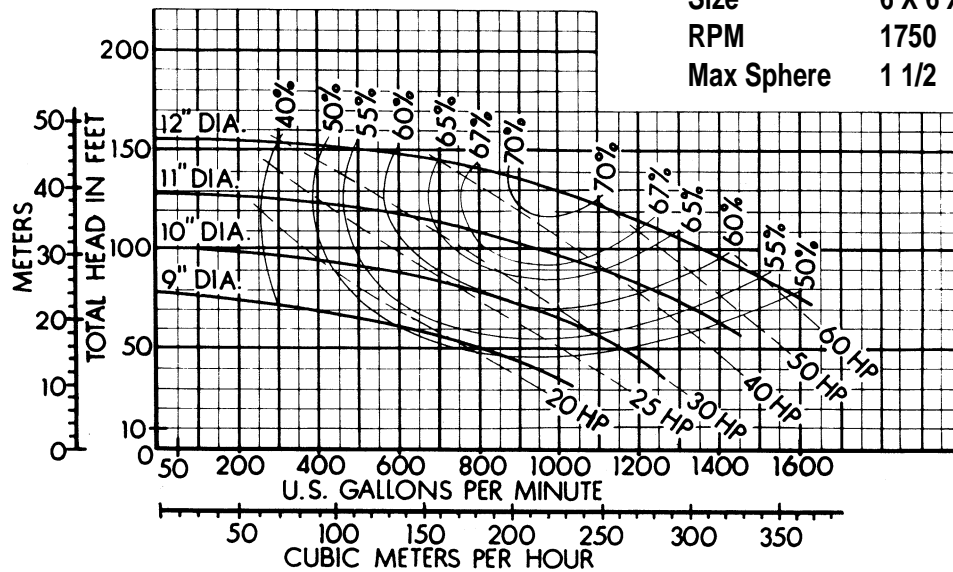
Performance at Casing Discharge Flange  
 Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_  
 PROJECT \_\_\_\_\_  
 ENGINEER \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_  
 CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

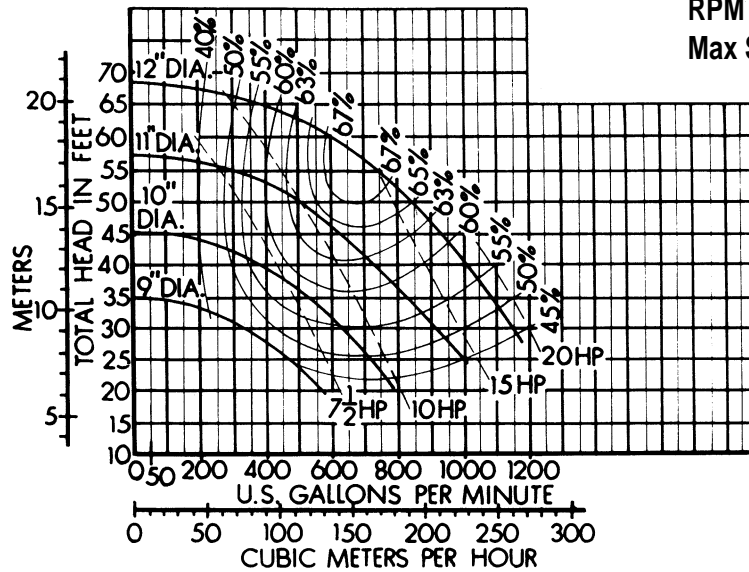
Curve 66124

Series 1300 / 1400  
 Size 6 X 6 X 12  
 RPM 1750  
 Max Sphere 1 1/2



Curve 66126

Series 1300 / 1400  
 Size 6 X 6 X 12  
 RPM 1150  
 Max Sphere 1 1/2



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

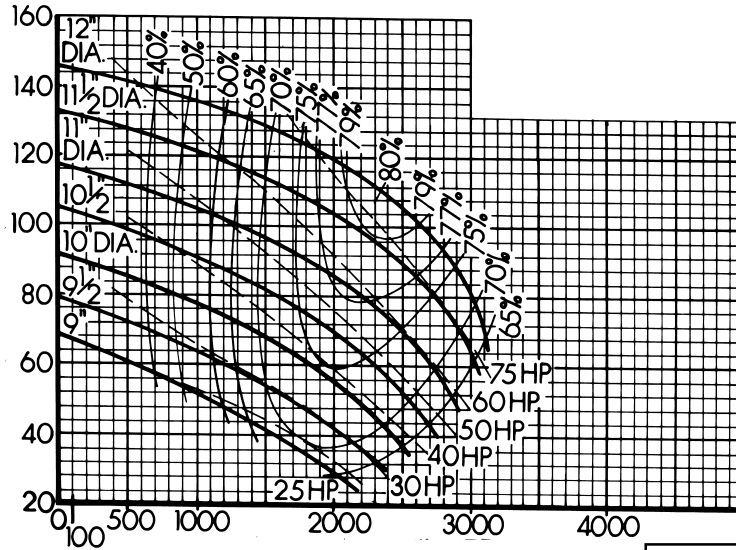
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY

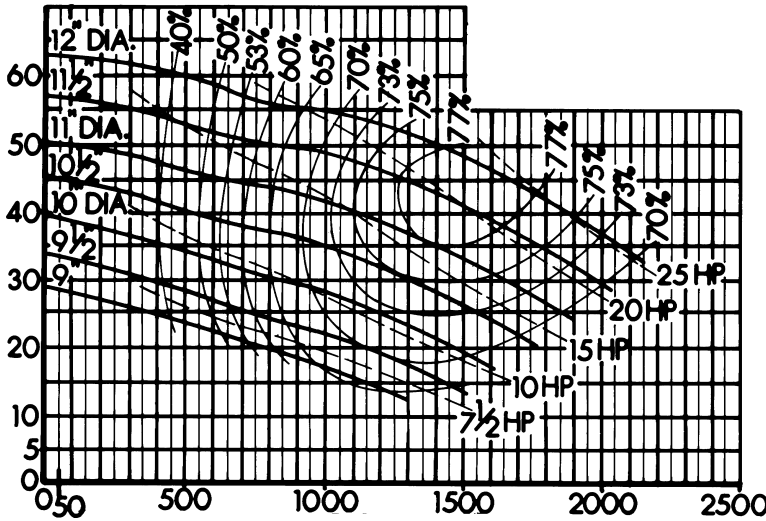
Curve 88124



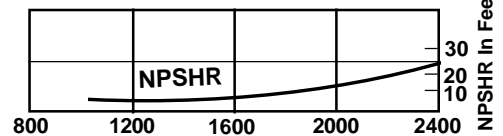
Series 1300 / 1400  
 Size 8 X 8 X 12  
 RPM 1750  
 Max Sphere 1 1/2



Curve 88126



Series 1300 / 1400  
 Size 8 X 8 X 12  
 RPM 1150  
 Max Sphere 1 1/2



1300

Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

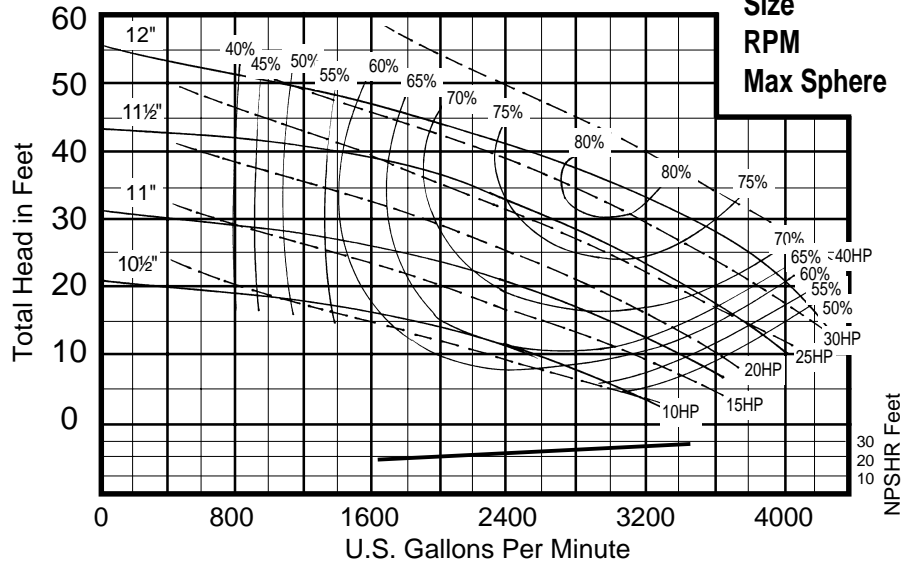
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY

Curve 101012

Series 1300 / 1400  
 Size 10 X 10 X 12  
 RPM 1750  
 Max Sphere 1 1/2



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

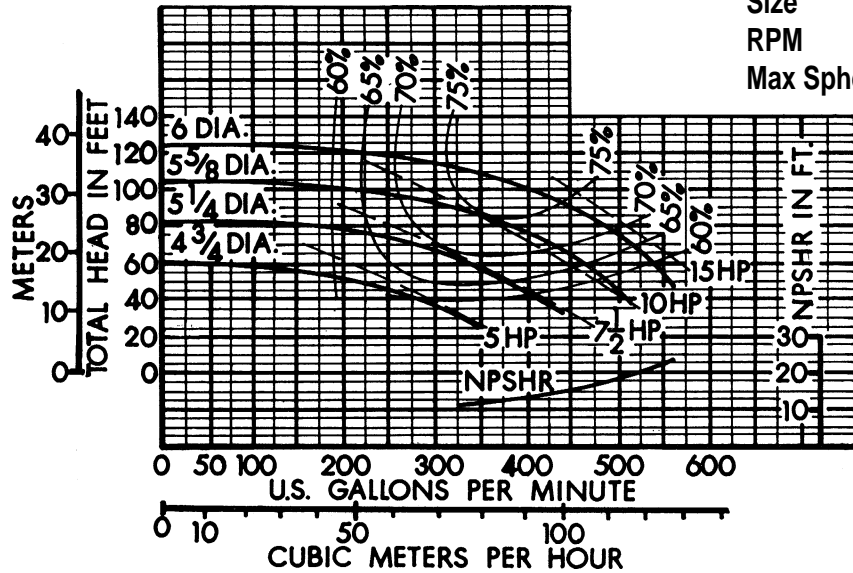
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

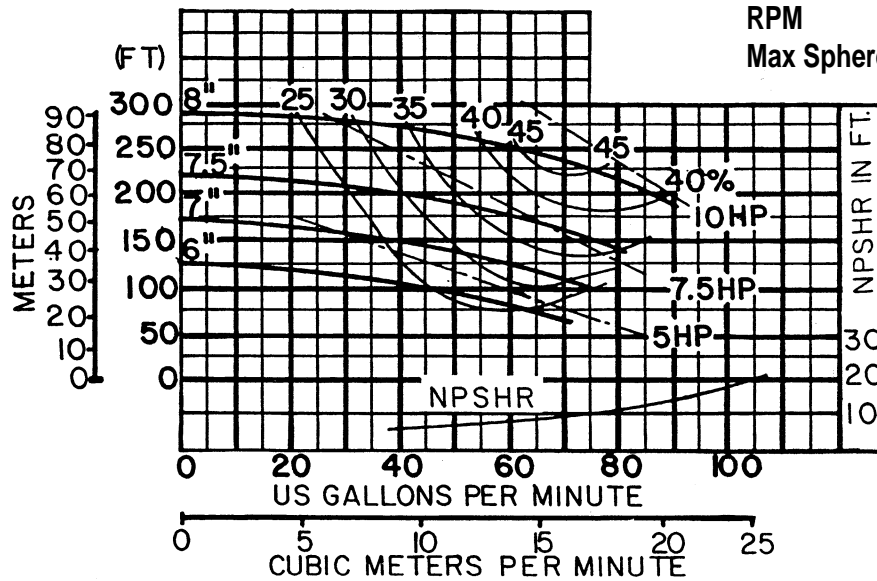
Curve 3272

Series 1300 / 1400  
 Size 3 X 2 1/2 X 7  
 RPM 3500  
 Max Sphere 1



Curve 11082

Series 1300 / 1400  
 Size 1 1/2 X 1 X 8  
 RPM 3500  
 Max Sphere 1/4



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

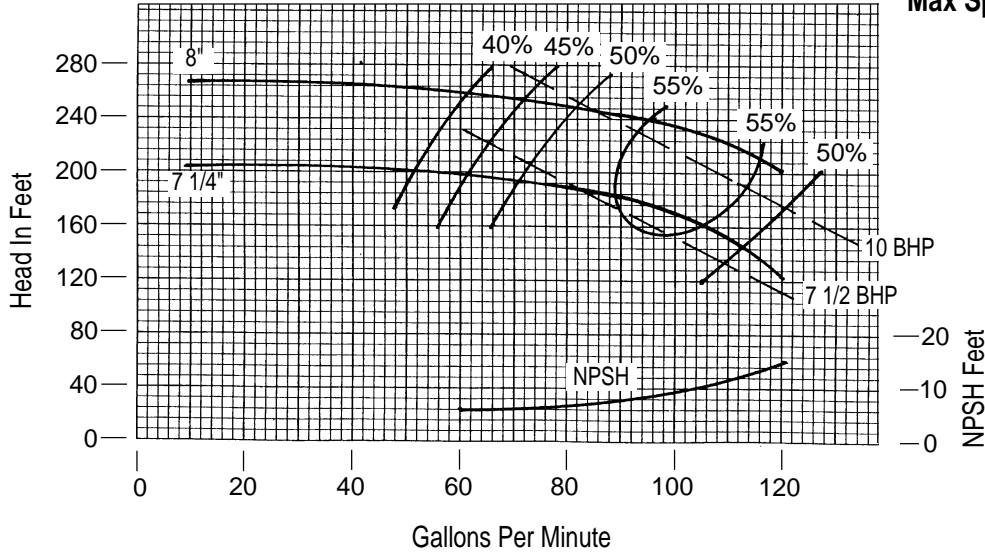
1300



# VERTIFLO PUMP COMPANY Performance Curves

Curve 11092

Series 1300 / 1400  
 Size 1 1/2 X 1 1/4 X 8  
 RPM 3500  
 Max Sphere 5/16



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

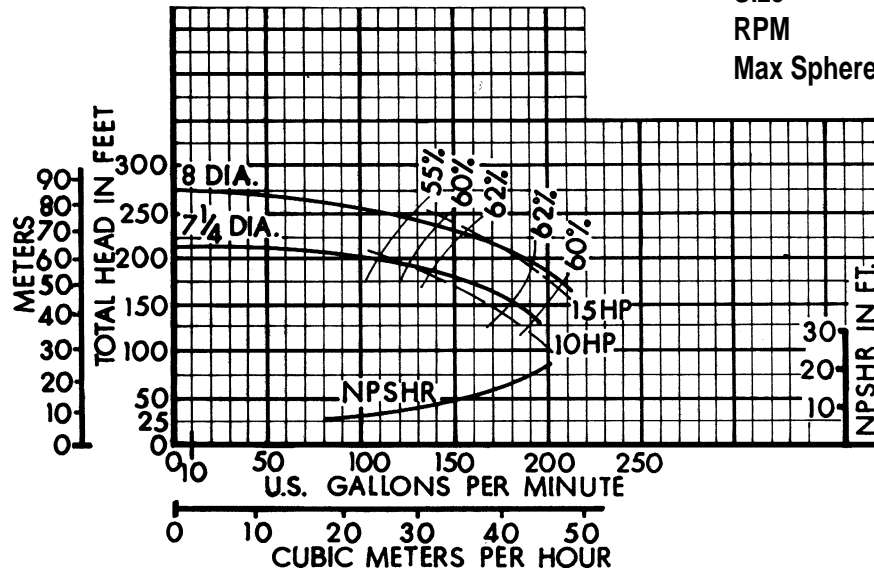
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

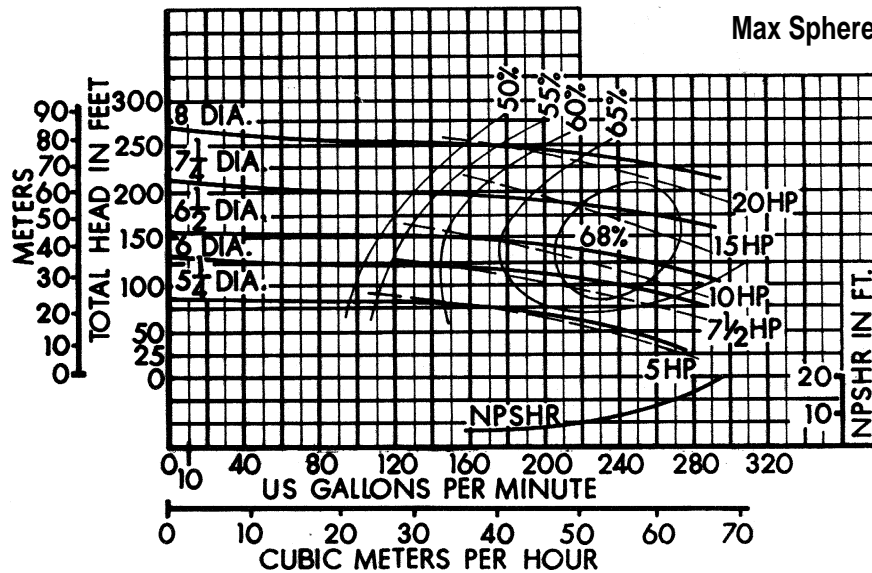
Curve 2182

Series 1300 / 1400  
 Size 2 X 1 1/2 X 8  
 RPM 3500  
 Max Sphere 7/16



Curve 3282

Series 1300 / 1400  
 Size 3 X 2 X 8  
 RPM 3500  
 Max Sphere 11/16



1300

Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

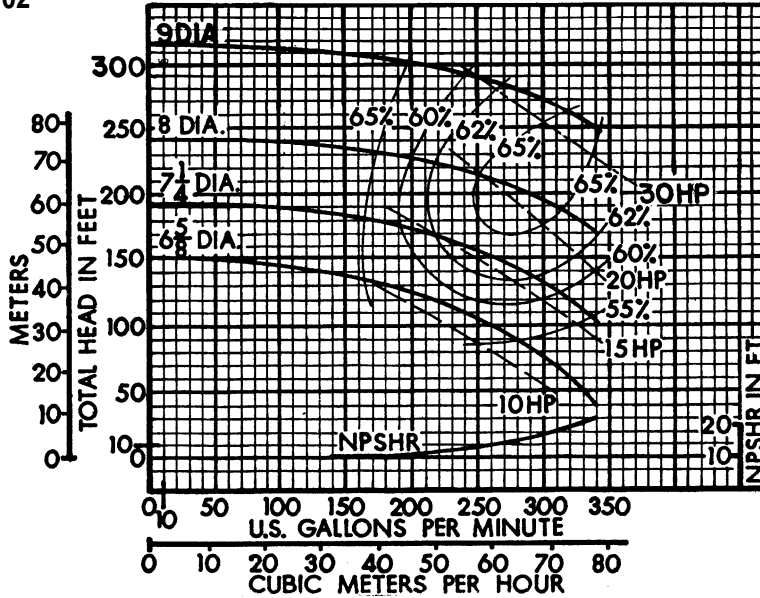
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

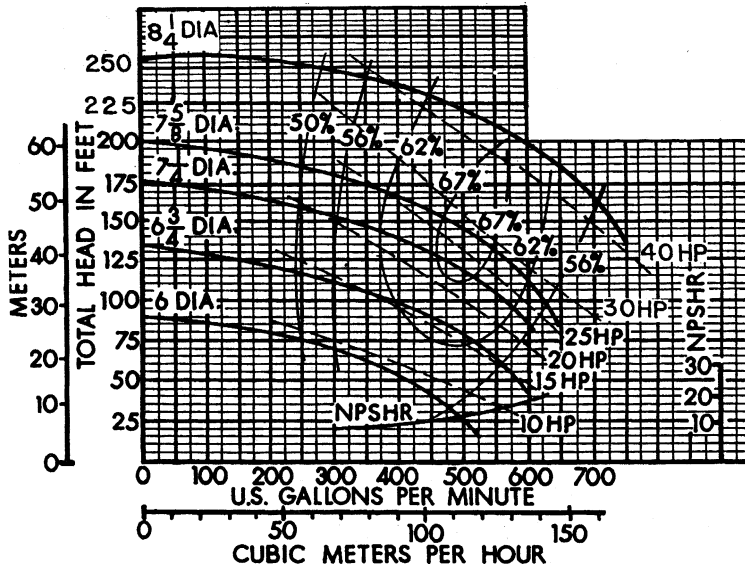
# VERTIFLO PUMP COMPANY Performance Curves

Curve 32102



Series 1300 / 1400  
 Size 3 X 2 X 10  
 RPM 3500  
 Max Sphere 11/16

Curve 11082



Series 1300 / 1400  
 Size 4 X 3 X 10  
 RPM 3500  
 Max Sphere 1 3/16

Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

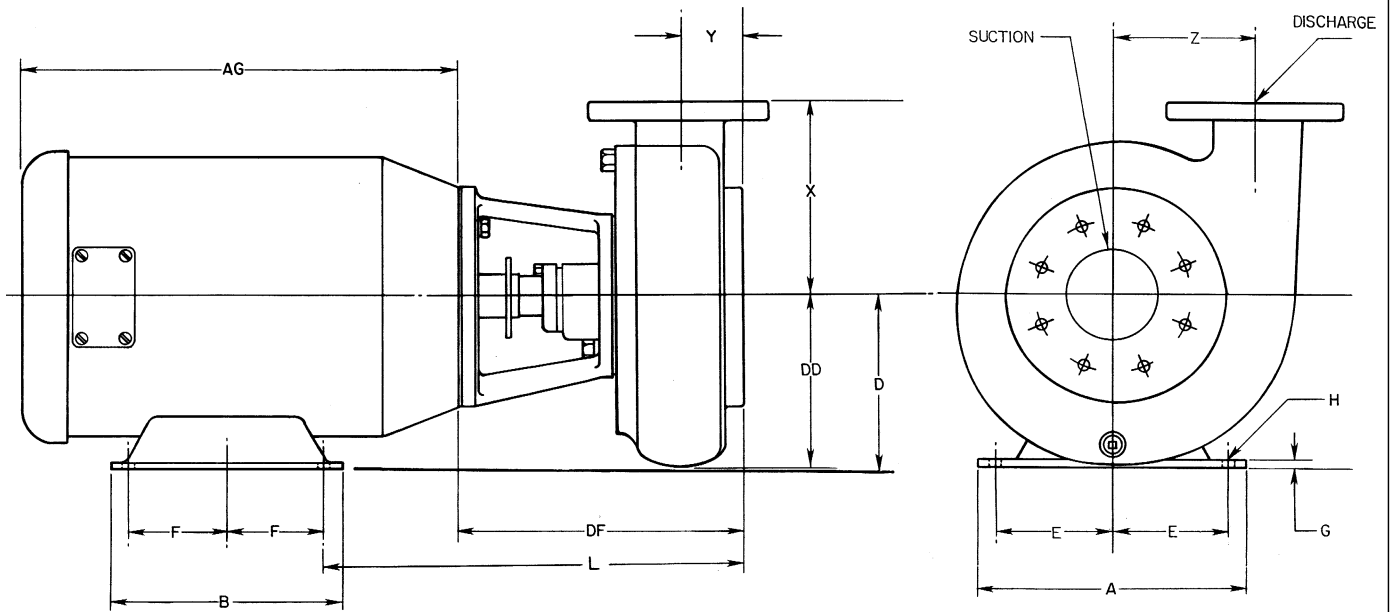
PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

**1300 Series - 8" Line**



**MOTOR DATA**

FRAME	A	B	D	E	F	G	H	AG
143 JP	6½	6	3½	2¾	2	1/8	11/32	97/16
145 JP	6½	6	3½	2¾	2½	1/8	11/32	97/16
182 JP	8¾	6¾	4½	3¾	2¼	3/8	13/32	13½
184 JP	8¾	6¾	4½	3¾	2¾	3/8	13/32	13½
213 JP	9½	7¾	5¼	4¼	2¾	5/8	13/32	15½
215 JP	9½	8¾	5¼	4¼	3½	5/8	13/32	17
254 JP	11¾	10 11/16	6¼	5	4½	11/16	17/32	20 1/8
256 JP	11¾	12 7/16	6¼	5	5	11/16	17/32	21 7/8
284 JP	12 7/8	12¼	7	5½	4¾	¾	17/32	22 3/8

Dimensions Based on TEFC, JP Frame Motors.

Not for construction unless certified, some dimensions may vary ± 1/2". Pump Construction: \_\_\_\_\_

**1300**

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_  
 PROJECT \_\_\_\_\_ SERIAL NO. \_\_\_\_\_  
 ENGINEER \_\_\_\_\_ LOCATION \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_  
 PUMP Model \_\_\_\_\_ Size \_\_\_\_\_ Curve No. \_\_\_\_\_ GPM \_\_\_\_\_ Head \_\_\_\_\_ SP. GR. @Temp. \_\_\_\_\_  
 DATA \_\_\_\_\_  
 MOTOR Mfg. \_\_\_\_\_ HP \_\_\_\_\_ RPM \_\_\_\_\_ Volt-Phase-Cycle \_\_\_\_\_ Frame ENC. \_\_\_\_\_  
 DATA \_\_\_\_\_  
 Shop Order \_\_\_\_\_ Certified by \_\_\_\_\_ Date \_\_\_\_\_

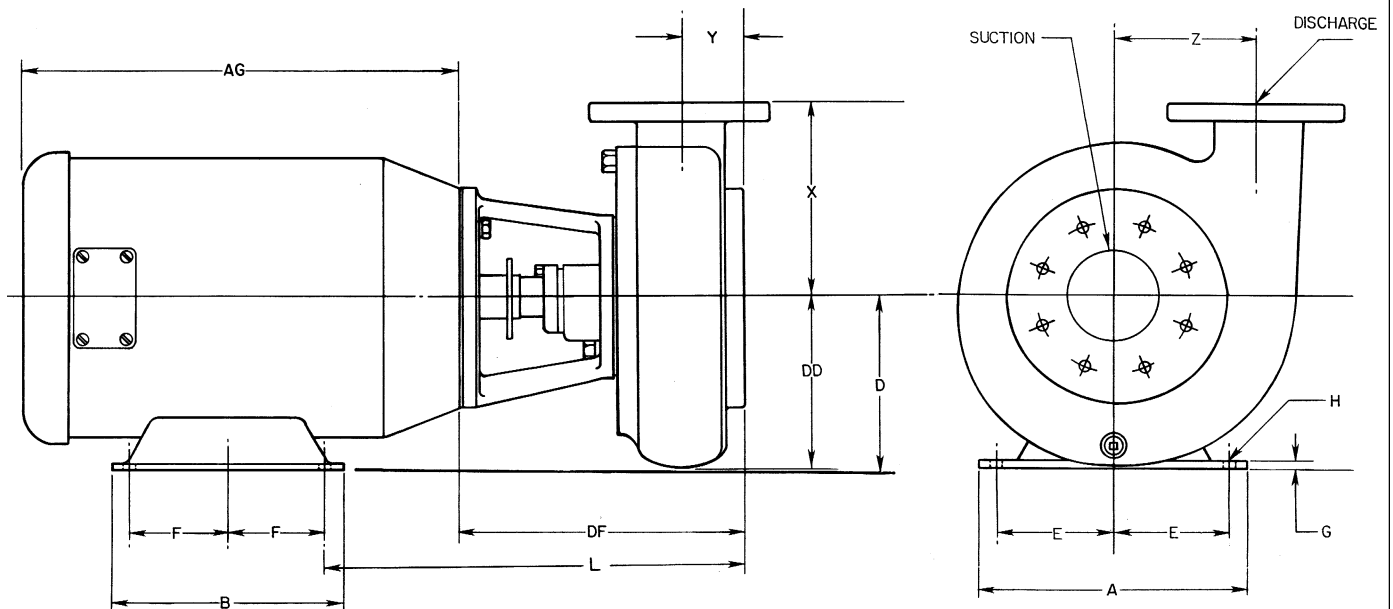
# VERTIFLO PUMP COMPANY Dimensions

## 1300 Series - 8" Line

LIQUID END	PUMP MODEL	MOTOR FRAME	SUCTION FLANGE						DISCHARGE FLANGE						DF	L	X	Y	Z	DD	R <sub>1</sub>	R <sub>2</sub>
			FLG. SIZE	DIA. FLG.	# OF HOLES	HOLE DIA.	TAP	B.C.	FLG. SIZE	DIA. FLG.	# OF HOLES	HOLE DIA.	B.C.									
3 x 2½ x 7	1320	143 JP	3	7½	4	—	5/8	6	2½	7	4	¾	5½	10 9/16	13 3/16	6¼	2 2/8	4 ¾	5 ½			
		145 JP													13 5/16							
		182 JP													14 ¼							
		184 JP													14 ¼							
	1326	213 JP													11 1/8							15 1 1/16
		215 JP																				16 3/16
		254 JP																				16 3/16
1½ x 1 x 8	1320	143 JP	1½	5	4	—	½	13	3 7/8	1	4¼	4	5/8	3 3/8	12 1/16	6	1 5/8	4 ½	5 ¼			
		145 JP													11 13/16							
		182 JP													12 3/4							
		184 JP													12 3/4							
	1326	213 JP													9 5/16							14 ½
		215 JP																				14 ½
1½ x 1¼ x 8	1320	143 JP	1½	5	4	—	½	13	3 7/8	1¼	4 5/8	4	5/8	3 ½	13 5/16	5 ¾	1 13/16	4 ¾	5 3/8	5 ½	5 ¾	
		145 JP													13 1/16							
		182 JP													14							
		184 JP													14							
	1326	213 JP													9 ¾							15 7/16
		215 JP																				15 15/16
		254 JP																				15 15/16
		256 JP																				15 15/16
2 x 1½ x 8	1320	143 JP	2	6	4	—	5/8	11	4 ¾	1½	5	4	9/16	3 7/8	12 ¾	5 ¾	2	4 ¾	5 3/8			
		145 JP													12 ½							
		182 JP													13 7/16							
		184 JP													13 7/16							
	1326	213 JP													10 3/8							14 15/16
		215 JP																				14 15/16
3 x 2 x 8	1320	143 JP	2½	7	4	—	5/8	11	5 ½	2	6	4	¾	4 ¾	13	6 ¼	2 1/8	4 ¾	5 ¾			
		145 JP													12 ¾							
		182 JP													13 1 1/16							
		184 JP													13 1 1/16							
	1326	213 JP													10 1/16							15 3/16
		215 JP																				15 3/16
		254 JP																				15 1 1/16
		256 JP																				15 1 1/16
4 x 3 x 8	1320	145 JP	4	9	8	—	5/8	11	7 ½	3	7 ½	4	¾	6	13 ¾	7	2 ¾	5 ¼	6			
		182 JP													14 1 1/16							
		184 JP													14 1 1/16							
5 x 4 x 8	1320	145 JP	5	10	8	—	¾	10	8 ½	4	9	8	¾	7 ½	14 ¼	7	2 7/8	6	7 1/8			
		182 JP													15 1/16							
		184 JP													15 1/16							
	1326	213 JP													11 3/8							16 ½
		215 JP																				16 ½

# VERTIFLO PUMP COMPANY Dimensions

## 1300 Series - 10/12" Line



### MOTOR DATA

FRAME	A	B	D	E	F	G	H	AG
143 JP	6½	6	3½	2¾	2	⅛	11/32	97/16
145 JP	6½	6	3½	2¾	2½	⅛	11/32	97/16
182 JP	8¾	6¾	4½	3¾	2¼	¾	13/32	13½
184 JP	8¾	6¾	4½	3¾	2¾	¾	13/32	13½
213 JP	9½	7¾	5¼	4¼	2¾	⅝	13/32	15½
215 JP	9½	8¾	5¼	4¼	3½	⅝	13/32	17
254 JP	11¾	10½	6¼	5	4½	11/16	17/32	20½
256 JP	11¾	127/16	6¼	5	5	11/16	17/32	217/8
284 JP	127/8	12¼	7	5½	4¾	¾	17/32	22¾
286 JP	127/8	13¾	7	5½	4¾	¾	17/32	237/8
324 JP	15¾	13½	8	6¼	5¼	1½	21/32	2411/16
326 JP	15¾	16	8	6¼	6	1½	21/32	263/16
364 JP	17¾	14¼	9	7	5¾	1¼	21/32	269/16

Dimensions Based on TEFC, JP Frame Motors.

Not for construction unless certified, some dimensions may vary ± 1/2". Pump Construction: \_\_\_\_\_

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_  
 PROJECT \_\_\_\_\_ SERIAL NO. \_\_\_\_\_  
 ENGINEER \_\_\_\_\_ LOCATION \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_  
 PUMP Model \_\_\_\_\_ Size \_\_\_\_\_ Curve No. \_\_\_\_\_ GPM \_\_\_\_\_ Head \_\_\_\_\_ SP. GR. @Temp. \_\_\_\_\_  
 DATA \_\_\_\_\_  
 MOTOR Mfg. \_\_\_\_\_ HP \_\_\_\_\_ RPM \_\_\_\_\_ Volt-Phase-Cycle \_\_\_\_\_ Frame ENC. \_\_\_\_\_  
 DATA \_\_\_\_\_  
 Shop Order \_\_\_\_\_ Certified by \_\_\_\_\_ Date \_\_\_\_\_

# VERTIFLO PUMP COMPANY Dimensions

## 1300 Series 10/12" Line

LIQUID END	PUMP MODEL	MOTOR FRAME	SUCTION FLANGE						DISCHARGE FLANGE						DF	L	X	Y	Z	DD
			FLG. SIZE	DIA. FLG.	# OF HOLES	HOLE DIA.	TAP	B.C.	FLG. SIZE	DIA. FLG.	# OF HOLES	HOLE DIA.	B.C.							
2x1½x10	1320	145 JP	2	6	4	—	5/8 11	4¾	1½	5	4	5/8	3¾	9 11/16	12 7/16	6 1/2	2	5 3/4	6 3/8	
		182 JP													13 3/8					
		184 JP													14 13/16					
	1326	213 JP												10 1/4						
		215 JP												15 5/16						
		254 JP																		
		256 JP																		
3x2x10	1320	145 JP	3	7 1/2	4	—	5/8 11	6	2	6	¾	4¾	10 1/16		12 3/4	7	2 1/8	5 3/4	6 1/2	
		182 JP												13 1 1/16						
		184 JP												15 3/16						
	1326	213 JP											10 5/8							
		215 JP																		
		254 JP																		
		256 JP																		
284 JP	15 1 1/16																			
4x3x10	1320	145 JP	4	9	8	—	5/8 11	7 1/2	3	7 1/2	¾	6	10 5/8	13 5/16	8 3/8	2 7/16	6 1/4	7		
		182 JP												14 1/4						
		213 JP												15 3/4						
	1326	215 JP											11 1/4							
		254 JP																		
		256 JP																		
		284 JP																		
5x4x10	1320	184 JP	5	10	8	—	¾ 10	8 1/2	4	9	¾	7 1/2	11 3/16	14 13/16	9	2 3/4	6 1/2	7 1/2		
		213 JP											16 3/8							
	1326	215 JP											11 3/4							
		254 JP																		
		256 JP																		
6x5x10 6x5x10A	1320	145 JP	6	11	8	—	¾ 10	9 1/2	5	10	7/8	8 1/2	11 5/16	13 7/8	9	2 13/16	7 1/8	8 3/8		
		182 JP											14 13/16							
	1326	213 JP											11 7/8							
		215 JP																		
		254 JP																		
		256 JP																		
		284 JP																		
6x6x10 6x6x10A	1326	215 JP	6	11	8	—	¾ 10	9 1/2	6	11	7/8	9 1/2	12 3/16	16 3/4	9	2 15/16	8	10		
		254 JP											17 1/4							
		256 JP																		
		284 JP																		
2x1½x12	1320	184 JP	2	6	4	¾	—	4¾	1 1/2	5	4	5/8		3 7/8	11 1/2	15	7 1/2	3 3/4	6 3/4	3 7/8
		213 JP											12 1/16							
	1326	215 JP																		
		254 JP																		

# VERTIFLO PUMP COMPANY Dimensions

LIQUID END	PUMP MODEL	MOTOR FRAME	SUCTION FLANGE						DISCHARGE FLANGE					DF	L	X	Y	Z	DD
			FLG. SIZE	DIA. FLG.	# OF HOLES	SOLE DIA.	TAP	B.C.	FLG. SIZE	DIA. FLG.	# OF HOLES	SOLE DIA.	B.C.						
3x2x12	1326	213 JP	3	7½	4	—	⅝	6	2	6	4	¾	4¾	12½	16⅝	9½	2⅝	5	7⅝
		215 JP																	
		254 JP																	
		256 JP																	
		284 JP																	
4x3x12	1326	215 JP	4	9	8	—	⅝	7½	3	7½	4	¾	6	11¾	16¼	8½	2½	7¾	8½
		254 JP																	
		256 JP																	
		284 JP																	
		286 JP																	
6x4x12	1326	254 JP	6	11	8	—	¾	9½	4	9	8	7⁄8	7½	12¼	17¼	9	2¾	7¾	9
		256 JP																	
		284 JP																	
		286 JP																	
		324 JP																	
		326 JP																	
	1334	364 JP													18⅝				
6x6x12	1326	256 JP	6	11	8	—	¾	9½	6	11	8	¾	9½	13	18	9	3¼	8¾	9¾
		284 JP																	
		286 JP																	
		324 JP																	
		326 JP																	
	1334	364 JP													18½				
8x8x12	1326	256 JP	8	13½	8	—	¾	11¾	8	13½	8	¾	11¾	14½	19½	11	4½	10½	13¾
		284 JP																	
		286 JP																	
		324 JP																	
		326 JP																	
	1334	364 JP													20				
10x10x12	1326	256 JP	10	16	12	—	⅞	14¼	10	16	12	⅞	14¼	16½	21½	11	5½	10¾	13¾
		284 JP																	
		286 JP																	
		324 JP																	
		326 JP																	
	1334	364 JP													22				
														22⅝					

Dimension DF will be larger on frame 364 and larger.



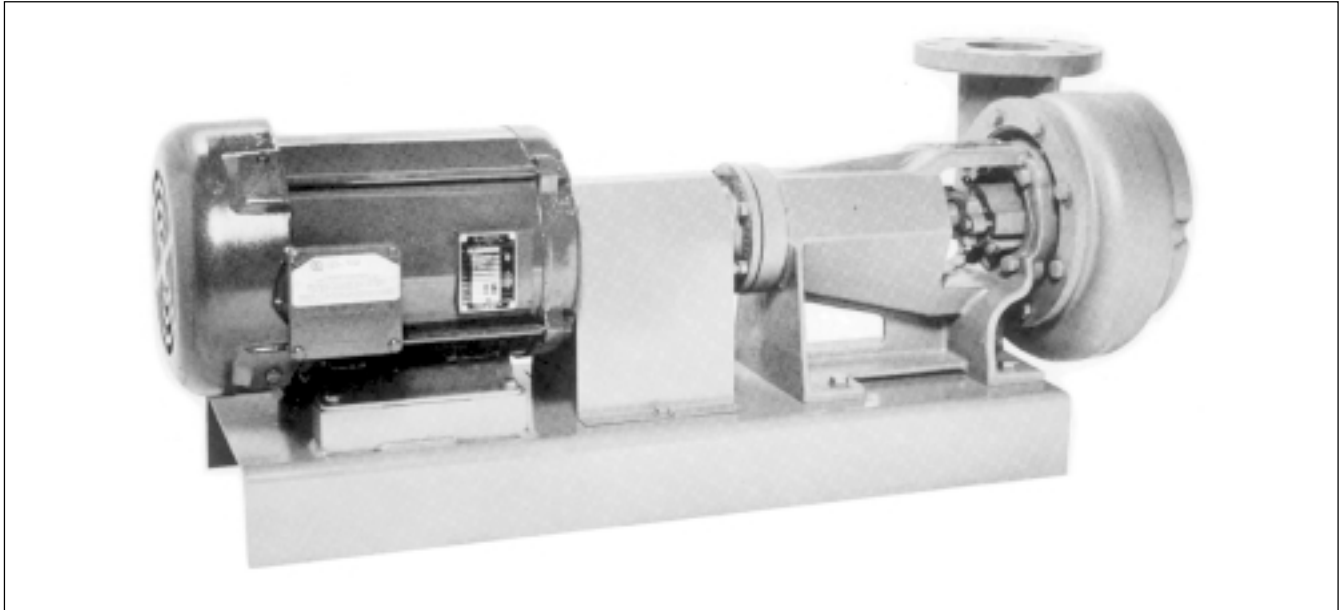
**VERTIFLO PUMP COMPANY**

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**VERTIFLO** SERIES 1400 Models 1420/1424

Quality Design Features Assure Long, Trouble-Free Service

**WIDE RANGE OF APPLICATIONS:**

- Industrial Process
- Pollution Control
- General Pumping
- Spray Systems
- Deionized Water
- Waste Water
- Clear Liquids
- Corrosive Liquids
- Chemicals
- Acids
- Water

**CAPABILITIES**

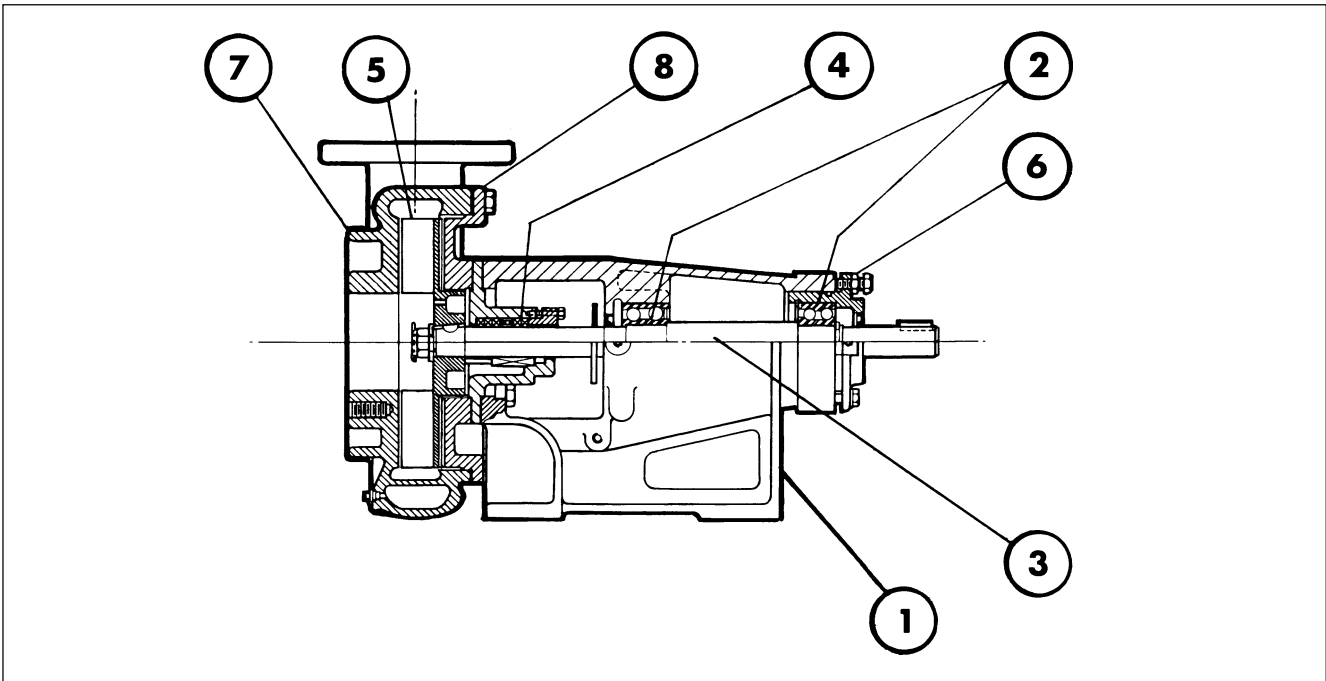
- Capacities to 1800 GPM
- Heads To 275 Feet TDH
- Temperature to 250° F
- Back Pull-Out Construction
- Semi-Open Impeller
- External Impeller Adjustment
- Packing or Mechanical Seal

**CONSTRUCTION:**

- Cast Iron
- 316 Stainless Steel Fitted
- All 316 Stainless Steel
- Alloy 20CD4MC<sub>u</sub>

*Series 1400 horizontal base-mounted end suction pumps are designed for use with any T or U frame motor, or with virtually any type of drive. VERTIFLO's base-mounted pumps are designed with back pull-out feature. This important feature allows for easy inspection or service/ maintenance (if ever needed) without disturbing the piping to the pump: an important cost saving feature.*

*Packing or various mechanical seal arrangements are available as standard options of this rugged, dependable product.*



**1. Power Frame**

Rugged heavy duty cast iron design incorporating integrally cast support and ribbed mounting feet which assure a solid, dependable pump installation and operation. One frame fits all pump sizes. External impeller adjustment is standard. Grease lubrication of bearings is standard; oil lubrication available.

**2. Bearings**

Series 1400 contains a high capacity cartridge-mounted double row thrust bearing allowing use on high suction pressure applications. Radial bearing is single row or double row and floats in a precision bored housing.

**3. Shaft**

416 stainless steel, precision machined with preferred taper at impeller location. Positive attachment is provided with castellated impeller nut and cotter pin, which assures that the impeller will not back off the shaft if the pump is accidentally operated in reverse rotation. 316 stainless steel shaft is optional.

**4. Shaft Sealing**

Packed arrangement utilizes a 2-piece split gland, slinger, Teflon® split lantern ring and 5-ring packing set. Grease lubrication is standard with product or water flush available. Wide choice of John Crane and Durametallic mechanical seals of various configurations and materials are optional.

**5. Impeller**

Semi-open design which accommodates passage of solids or fines. All impellers have balance holes near the impeller hub which reduce thrust load and pressure in the packing or seal area. Wiping vanes reduce axial loading and prevent dirt from entering the sealing area. Impeller is keyed to shaft with a positive taper fit to assure perfect attachment.

**6. Impeller Adjustment**

Every power frame contains an external impeller adjustment utilizing jackscrews which provides for clearance adjustment between the impeller vanes' face and casing. This adjustment feature compensates for internal wear. Expensive casing and impeller wearing rings are eliminated.

**7. Casing**

High efficiency volute design. 4X3X10 and larger sizes are double volute, containing a splitter, which reduces bearing loading and shaft deflection; thus extending bearing and packing or mechanical seal life. All suction and discharge openings are flanged for installation ease and integrity.

**8. Back Pull-Out**

All pumps\* are designed with back pull-out feature which allows for removal of all pump rotating components without disturbing the piping connections. \*except size 2X1 1/2X12

E.I DuPont registered®

**Standard**

- All iron construction
- 416 stainless steel shaft
- Semi-open impeller
- Back pull-out design
- Packed stuffing box or mechanical seal
- External impeller adjustment
- Heavy duty power frame
- Regreaseable ball bearings
- Flanged suction and discharge on all sizes
- Flexible coupling
- Steel mounting base

**Options**

- 316 stainless steel shaft
- 316 stainless steel impeller
- All 316 stainless steel, alloy 20 or hastelloy construction (all wetted parts)
- Teflon® packing (standard in s.s. and alloy units)
- Single or double mechanical seal (various materials)
- Product or fresh water flush to packing or mechanical seal
- Oil lubricated bearings with sight level indicator
- Coupling guard (recommended)
- ODP, TEFC, XP motors
- Steam turbine drive
- Diesel or gasoline engine drive

<b>Design Details</b>		<b>Model 1420</b>	<b>Model 1424</b>
<b>Pump</b>	Rotation from driver end	CW	CW
<b>Shaft</b>	Diameter through stuffing box	1.250	1.500
	Diameter between bearings	1.750	1.750
	Diameter at coupling end	1.250	1.250
	Coupling key - square	0.250	0.250
	Bearing centers	6.692	6.692

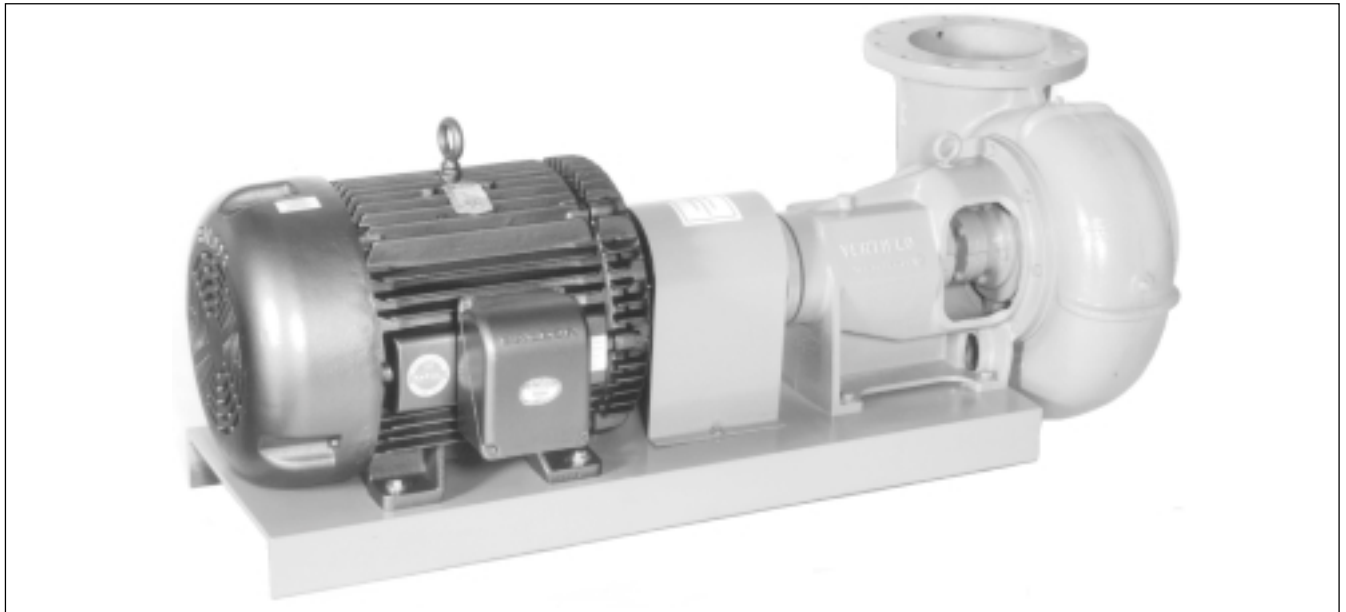
**VERTIFLO PUMP COMPANY**

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**VERTIFLO** Model 1434

**Quality Design Features Assure Long, Trouble-Free Service**



**WIDE RANGE OF APPLICATIONS:**

- Industrial Process
- Waste Water
- Chemicals
- Deionized Water
- Pollution Control
- Solids Pumping
- General Water Pumping

**CAPABILITIES**

- Capacities to 3600 GPM
- Heads To 160 Feet
- Temperature to 250° F
- Back Pull-Out Construction
- Semi-Open Impeller
- External Impeller Adjustment
- Packing or Mechanical Seal

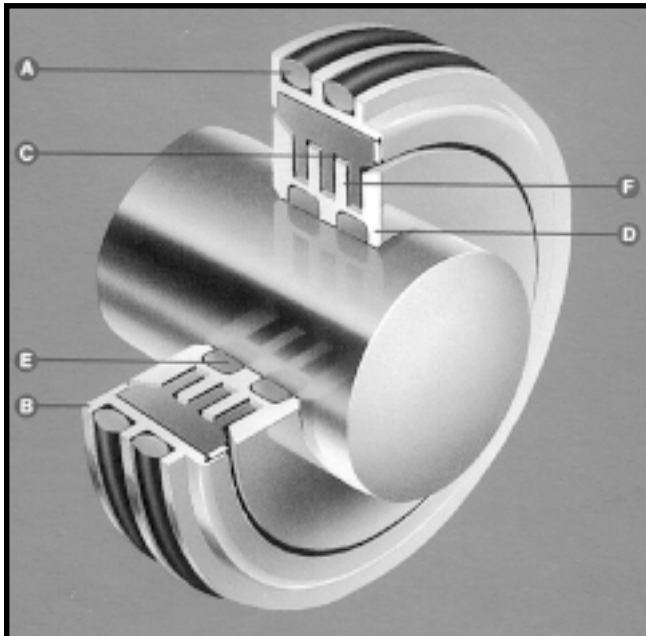
**CONSTRUCTION:**

- Cast Iron
- 316 Stainless Steel Fitted
- All 316 Stainless Steel
- Alloy 20

*Model 1434 horizontal base-mounted end suction pumps are designed for use with any T or U frame motor, or with virtually any type of drive. VERTIFLO's base-mounted pumps are designed with back pull-out feature. This important feature allows for easy inspection or service/ maintenance (if ever needed) without disturbing the piping to the pump: an important cost saving feature.*

*Packing or various mechanical seal arrangements are available as standard options of this rugged, dependable product.*

**John Crane Type 31 Series  
Labri-Seal Bearing Protectors**



- A. Outer ring O-rings when space permits
- B. Stationary outer ring
- C. Inward projecting PTFE "fingers"
- D. Moving/free-floating inner ring
- E. Shaft-side inner ring O-rings
- F. Outward projecting stainless steel "fingers"

- Exclusive "finger-locking" design traps and blocks oil leakage.
- Stationary outer ring projects special PTFE composition "fingers" inward. They mesh perfectly with outward projecting steel "fingers" of moving/free floating inner ring. The flexible labyrinth blocks bearing oil. Leakage is virtually *zero*. Drag is virtually *zero*.
- Contamination threats from outside are blocked, too.

**VERTIFLO Feature Selector**

**Standard**

- All iron construction
- 416 stainless steel shaft
- Semi-open impeller
- 316 stainless steel shaft sleeve
- Back pull-out design
- Packed stuffing box or mechanical seal
- External impeller adjustment
- Heavy duty power frame
- Regreaseable ball bearings
- Flanged suction and discharge on all sizes
- Dual volute casing 6x4x12 and larger

**Options**

- Labri-seal bearing protectors
- 316 stainless steel shaft
- 316 stainless steel impeller
- All 316 stainless steel or alloy 20 construction (all wetted parts)
- Teflon® packing (standard in s.s. and alloy units)
- Single or double mechanical seal (various materials)
- Product or fresh water flush to packing or mechanical seal
- Oil lubricated bearings with sight level indicator
- Coupling guard (recommended)
- ODP, TEFC, XP motors
- Flexible coupling
- Steel mounting base
- Cartridge mechanical seal

E.I DuPont registered®

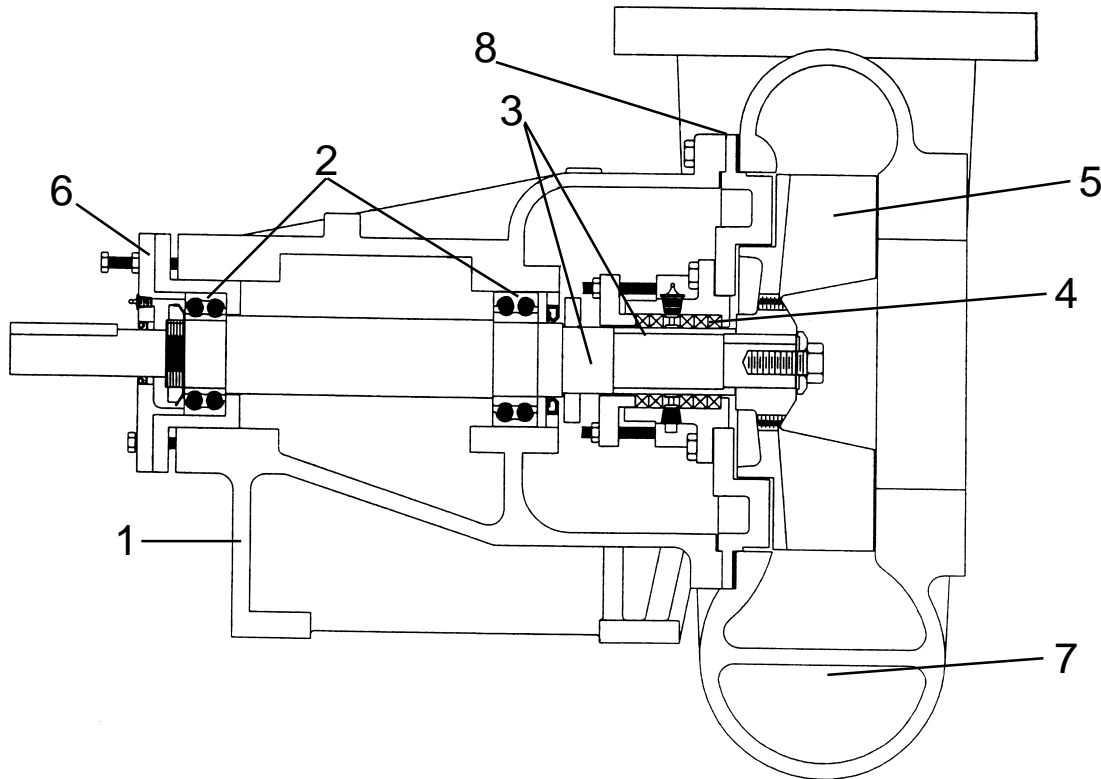
**Design Details**

**Pump Shaft**

- Rotation from driver end
- Diameter over shaft sleeve
- Diameter between bearings
- Diameter at coupling end
- Coupling key - square
- Bearing centers

**Model 1434**

- CW
- 2.125
- 2.500
- 1.500
- 0.375
- 9.750



**1. Power Frame**

Rugged heavy duty cast iron design incorporating integrally cast support and ribbed mounting feet which assure a solid, dependable pump installation and operation. One frame fits all pump sizes. External impeller adjustment is standard. Grease lubrication of bearings is standard; oil lubrication available.

**2. Bearings**

Model 1434 contain a high capacity cartridge-mounted double row thrust bearing allowing use on high suction pressure applications. Radial bearing is double row and floats in a precision bored housing.

**3. Shaft and Shaft Sleeve**

A 416 stainless steel shaft is standard with a 316 stainless steel shaft sleeve. A 316 stainless steel shaft is optional.

**4. Shaft Sealing**

Packed arrangement utilizes a 2-piece split gland, slinger, Teflon® split lantern ring and 5-ring packing set. Grease lubrication is standard with product or water flush available. Wide choice of John Crane and Durametallic mechanical seals of various configurations and materials. Oversized seal housing is ready to adapt for cartridge-type mechanical seal.

**5. Impeller**

Semi-open design which accommodates passage of solids or fines. All impellers have balance holes near the impeller hub which reduce thrust load and pressure in the packing or seal area. All impellers have a balancing ring. Impeller is keyed to shaft.

**6. Impeller Adjustment**

Power frame contains an external impeller adjustment which provides for clearance adjustment between the impeller vanes' face and casing. This adjustment feature compensates for internal wear. Expensive casing and impeller wearing rings are eliminated.

**7. Casing**

High efficiency volute design. Sizes, 6 x 4 x 12 and larger, are double volute, containing a splitter, which reduces bearing loading and shaft deflection; thus extending bearing and packing or mechanical seal life. All suction and discharge openings are flanged for installation ease and integrity.

**8. Back Pull-Out**

All pumps are designed with back pull-out feature which allows for removal of all pump rotating components without disturbing the piping connections.

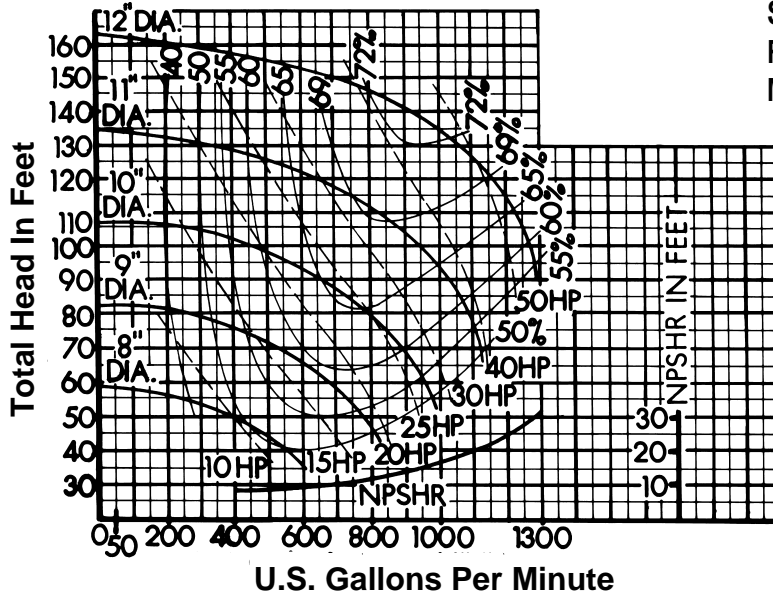
E. I DuPont registered®



# VERTIFLO PUMP COMPANY Performance Curves

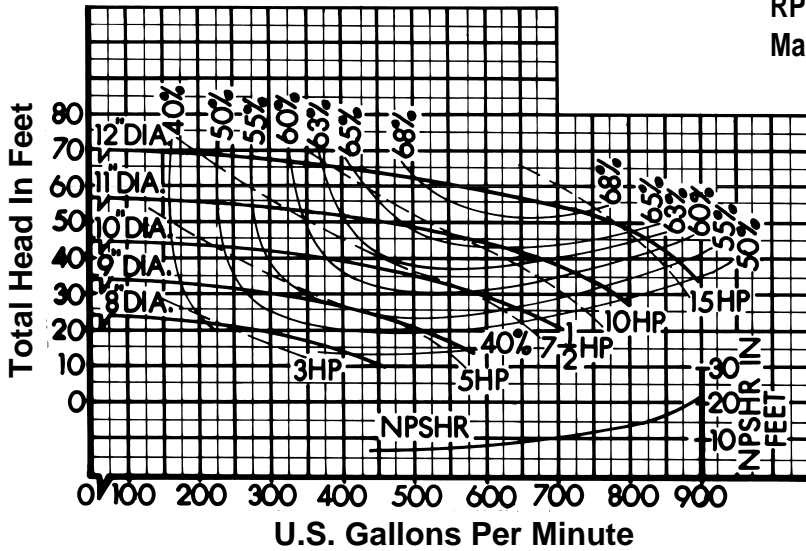
Curve 64124

Model 1434  
 Size 6 X 4 X 12  
 RPM 1750  
 Max Sphere 1 1/2



Curve 64126

Model 1434  
 Size 6 X 4 X 12  
 RPM 1150  
 Max Sphere 1 1/2



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

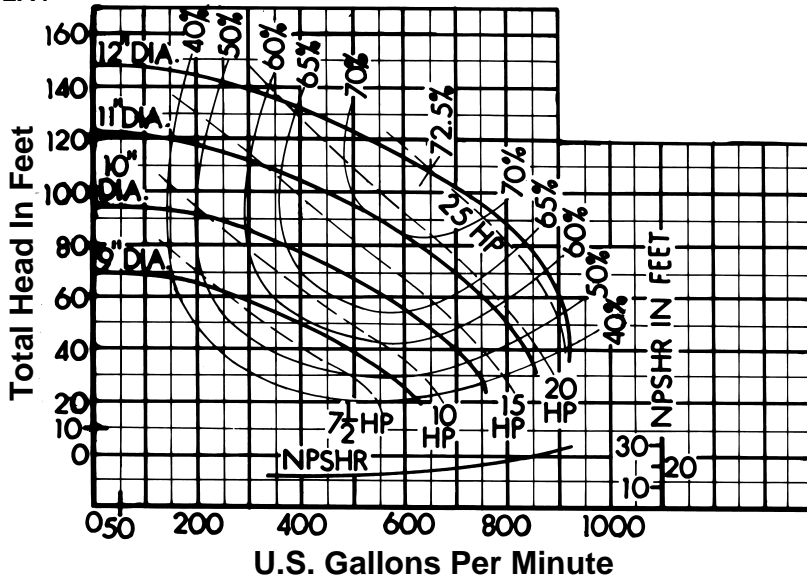
CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

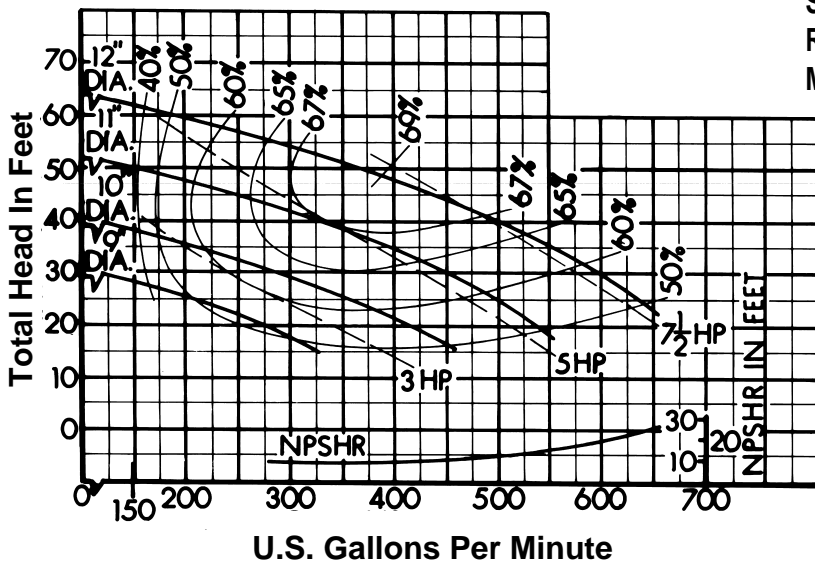
Curve 6412A4

Model 1434  
 Size 6 X 4 X 12A  
 RPM 1750  
 Max Sphere 1 1/8



Curve 6412A6

Model 1434  
 Size 6 X 4 X 12A  
 RPM 1150  
 Max Sphere 1 1/8



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

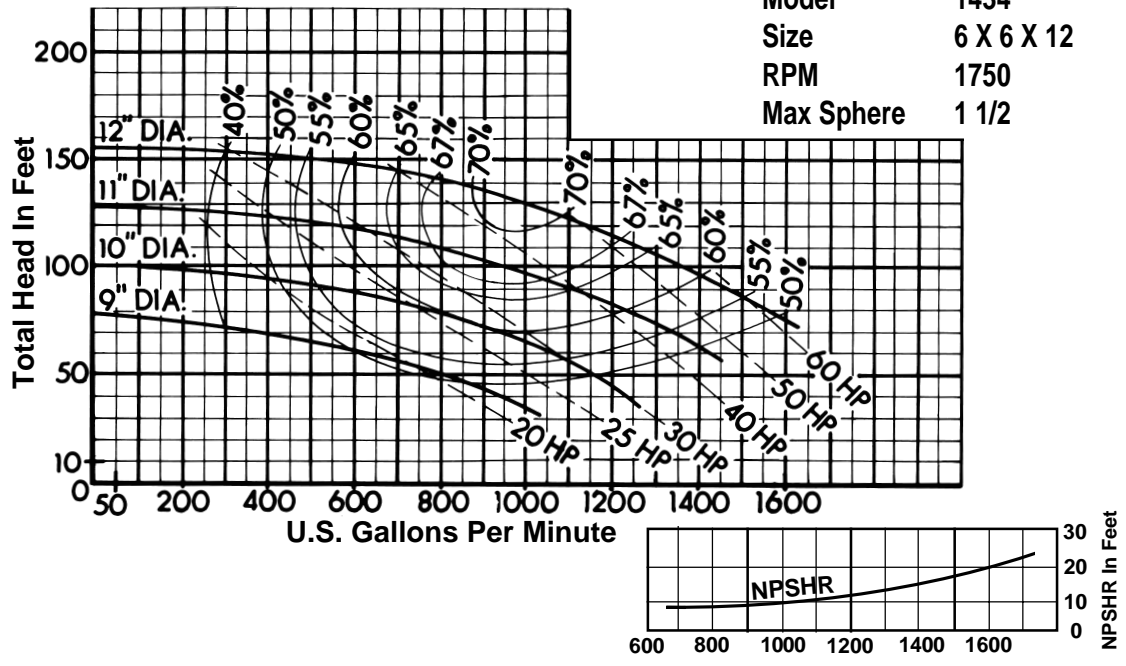
CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

1400

# VERTIFLO PUMP COMPANY Performance Curves

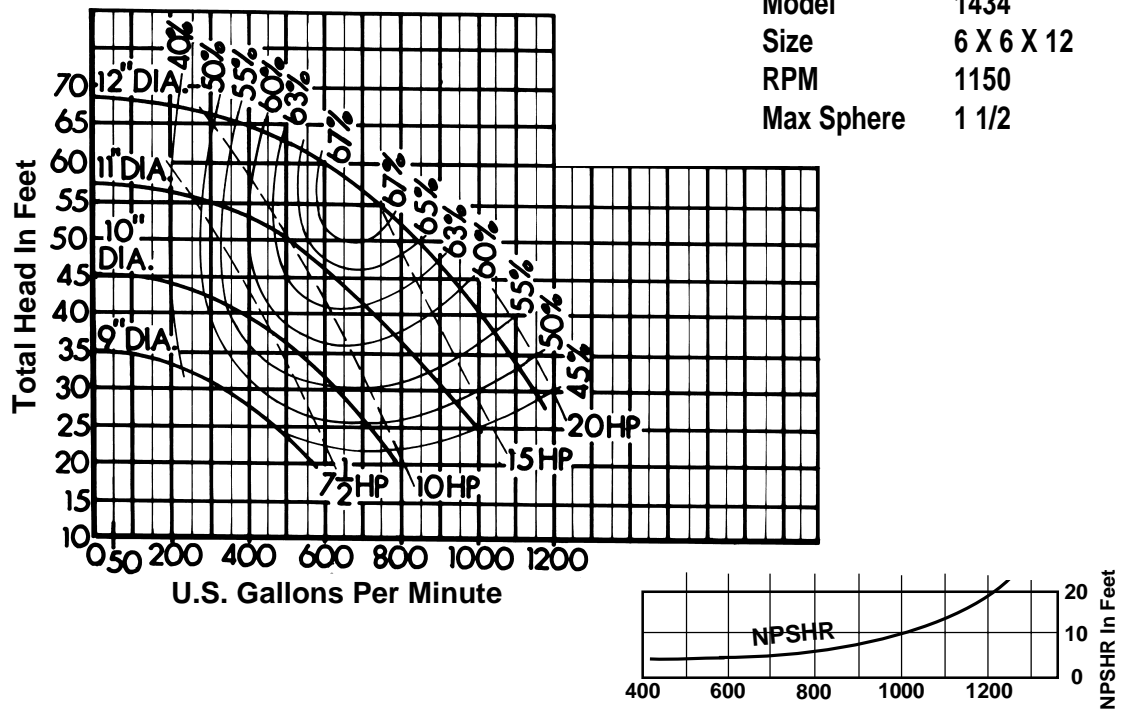
Curve 66124

Model 1434  
 Size 6 X 6 X 12  
 RPM 1750  
 Max Sphere 1 1/2



Curve 66126

Model 1434  
 Size 6 X 6 X 12  
 RPM 1150  
 Max Sphere 1 1/2



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

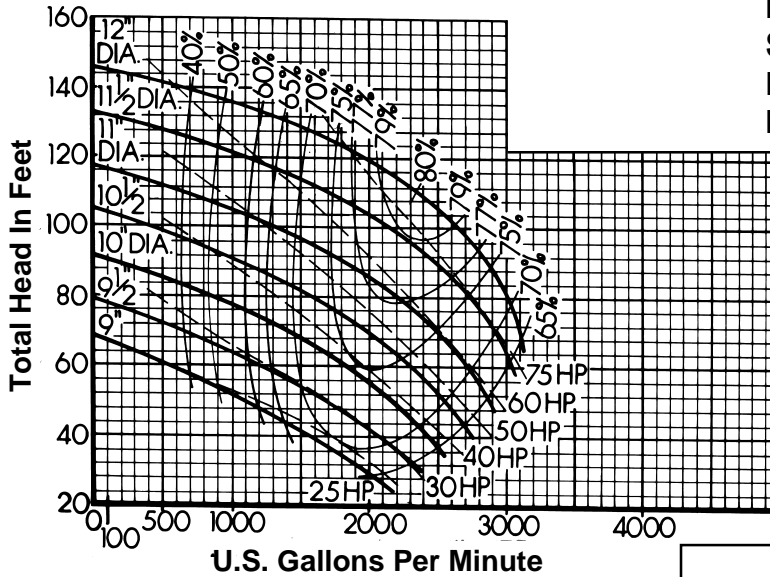
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Performance Curves

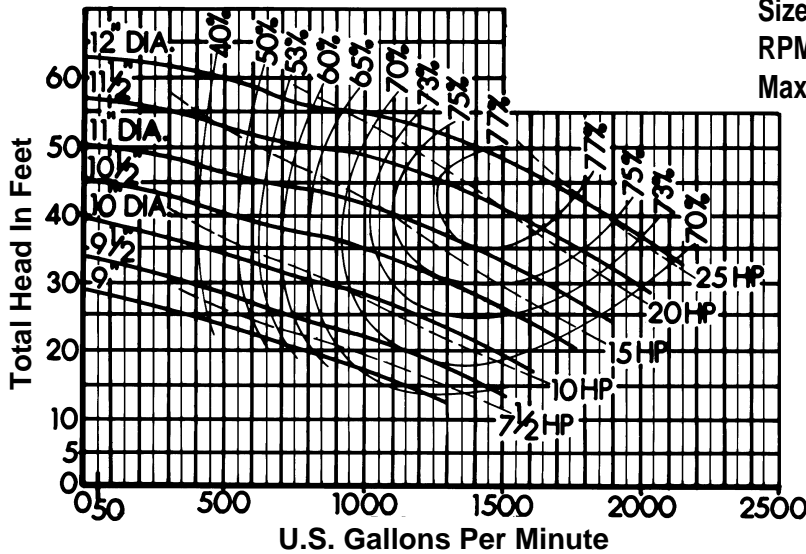
Curve 88124



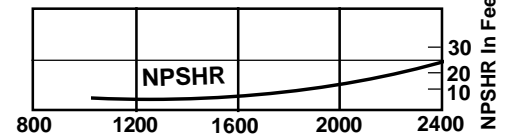
Model 1434  
 Size 8 X 8 X 12  
 RPM 1750  
 Max Sphere 1 1/2



Curve 88126



Model 1434  
 Size 8 X 8 X 12  
 RPM 1150  
 Max Sphere 1 1/2



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

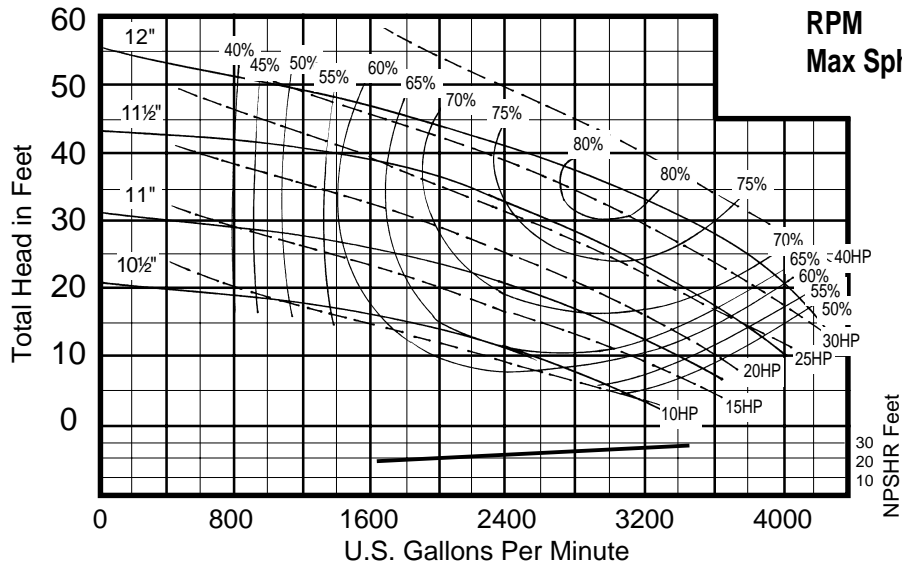
CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

1400

# VERTIFLO PUMP COMPANY Performance Curves

Curve 101012

Model 1434  
 Size 10 X 10 X 12  
 RPM 1150  
 Max Sphere 1 5/8



Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

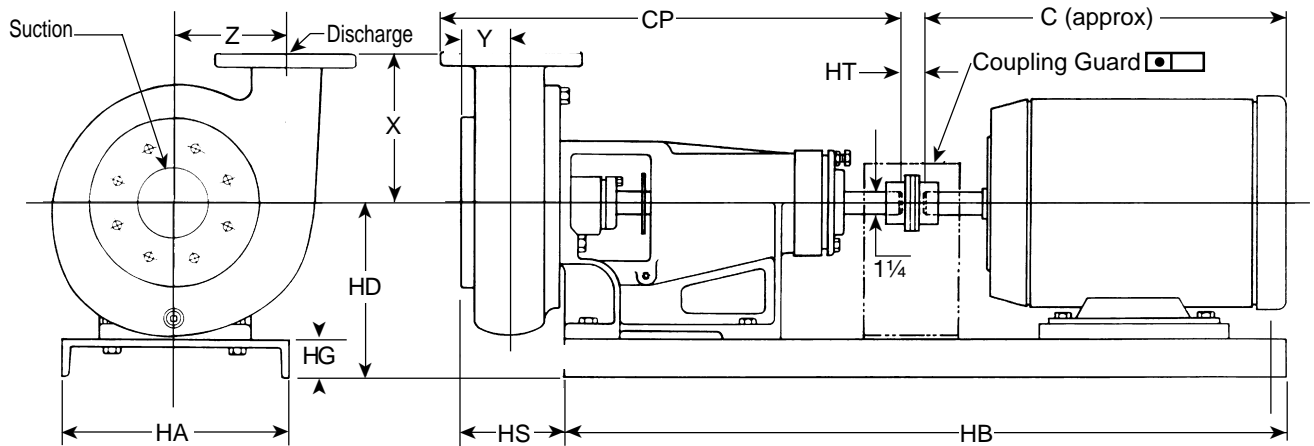
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Dimensions

## 1400 Series - Base-Mounted Models 1420/1424



1400

Not for construction unless certified, some dimensions may vary  $\pm 1/2"$ . Pump Construction: \_\_\_\_\_

CUSTOMER _____	CUSTOMER NO. _____					
PROJECT _____	SERIAL NO. _____					
ENGINEER _____	LOCATION _____					
CONTRACTOR _____						
PUMP Model _____	Size _____	Curve No. _____	GPM _____	Head _____	SP. GR. @Temp. _____	
DATA _____						
MOTOR Mfgr. _____	HP _____	RPM _____	Volt-Phase-Cycle _____	Frame ENC. _____	Furnished by _____	Mounted by _____
DATA _____						
Shop Order _____	Certified by _____	Date _____				

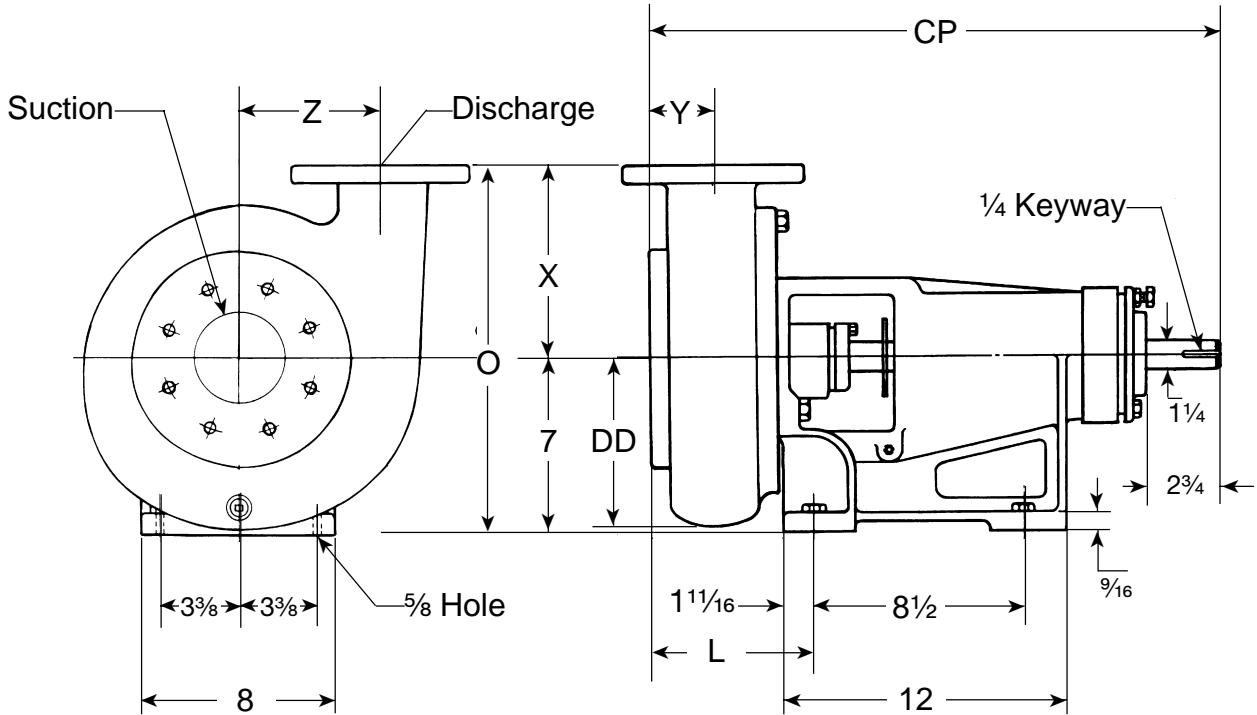
# VERIFLO PUMP COMPANY Models 1420 / 1424

Liquid End	SUCTION FLANGE						DISCHARGE FLANGE						X	Y	Z	CP	HS	DD	L	O
	FLG. Size	DIA. FLG.	# of Holes	Tap	Hole DIA.	Bolt Circle DIA.	FLG. Size	DIA FLG.	# of Holes	Hole DIA.	Bolt Circle DIA.									
3x2½x7	3	7½	4	⅝-11		6	2½	7	4	¾	5½	6¼	2⅝	4¾	22¾	5¼	5½	6¹⁵⁄₁₆	13¼	
1½x1x8	1½	5	4	½-13		3⅞	1	4¼	4	⅝	3⅞	6	1⅝	4½	21½	4	5¼	5¹¹⁄₁₆	13	
1½x1¼x8	1½	5	4	½-13		3⅞	1¼	4⅝	4	¾	4¾	5¾	1⅞	4¾	20¹⁄₁₆	4¼	5¼	4¼	12¾	
2x1½x8	2	6	4	⅝-11		4¾	1½	5	4	⅞	3⅞	5¾	2	4¾	22	4½	5⅝	6³⁄₁₆	12¾	
3x2x8	2½	7	4	⅝-11		5½	2	6	4	¾	4¾	6¼	2⅞	4¾	22¼	4¾	5¾	6⁷⁄₁₆	13¼	
4x3x8	4	9	8	⅝-11		7½	3	7½	4	¾	6	7	2¾	5¼	23⅞	5⅝	6	7⁵⁄₁₆	14	
5x4x8	5	10	8	¾-10		8½	4	9	8	¾	7½	7	2⅞	6	23½	6	7⅞	7¹¹⁄₁₆	14	
2x1½x10	2	6	4	⅝-11		4¾	1½	5	4	⅝	3⅞	6½	2	5¾	21⅞	4⅝	6⅝	6¹⁄₁₆	13½	
3x2x10	3	7½	4	⅝-11		6	2	6	4	¾	4¾	7	2³⁄₁₆	5¾	22¼	4¾	6½	6⁷⁄₁₆	14	
4x3x10	4	9	8	⅝-11		7½	3	7½	4	¾	6	8⅝	2⅝	6¼	22¾	5¼	7	6¹⁵⁄₁₆	15	
5x4x10	5	10	8	¾-10		8½	4	9	8	¾	7½	9	2¾	6½	23⅝	5⅞	7½	7⁹⁄₁₆	16	
6x5x10	6	11	8	¾-10		9½	5	10	8	⅞	8½	9	2¹³⁄₁₆	7⅞	23½	6	8⅝	7¹¹⁄₁₆	16	
6x5x10A	6	11	8	¾-10		9½	5	10	8	⅞	8½	9	2¹³⁄₁₆	7⅞	23½	6	8⅝	7¹¹⁄₁₆	16	
6x6x10	6	11	8	¾-10		9½	6	11	8	⅞	9½	9	2¹⁵⁄₁₆	8	23¾	6¼	10	7¹⁵⁄₁₆	16	
6x6x10A	6	11	8	¾-10		9½	6	11	8	⅞	9½	9	2¹⁵⁄₁₆	8	23¾	6¼	10	7¹⁵⁄₁₆	16	
2X1½x12	2	6	4		¾	4⅝	1½	5	4	⅝	3⅞	7½	3¾	6¾	23½	6	7⅞	7¹¹⁄₁₆	14½	
3x2x12	3	7½	4	⅝-11		6	2	6	4	¾	4¾	9½	2⁹⁄₁₆	5	22¹⁄₁₆	5⅞	7¾	6¼	16½	
4x3x12	4	9	8	⅝-11		7½	3	7½	4	¾	6	8½	2½	7⅞	21¹¹⁄₁₆	5½	8⁹⁄₁₆	5⅞	15½	
6x4x12	6	11	8	¾-10		9½	4	9	8	¾	7½	9	2¾	7¾	22³⁄₁₆	6	9	6⅝	16	
6x6x12	6	11	8	¾-10		9½	6	11	8	⅞	9½	9	3¼	8⅝	22¹⁵⁄₁₆	6¾	9⅞	7⅞	16	

Frame No.	143T	145T	182T	184T	213T	215T	254T	256T	284TS	284T	286TS	286T	324TS	324T	326T	326TS	364TS	364T	365TS	365T
HA	12	12	12	12	12	12	15	15	15	15	15	15	18	18	18	18	18	18	18	18
HB	36	36	36	36	36	36	44	44	44	44	44	44	48	48	48	48	48	48	48	48
C	13⅝	13⅝	14⅝	15⅝	17¼	19¼	22⅞	24⅝	24½	25⅞	26	27⅞	27¼	28¾	28¾	30¼	31	33⅝	32	34⅝
HD	10	10	10	10	10	10	10⅝	10⅝	10⅝	10⅝	10⅝	10⅝	12	12	12	12	13	13	13	13
HG	3	3	3	3	3	3	3⅝	3⅝	3⅝	3⅝	3⅝	3⅝	4	4	4	4	4	4	4	4
HT	¾	¾	¾	¾	¾	¾	1	1	1	1	1	1	1	1	1	1	1	1	1	1

# VERTIFLO PUMP COMPANY Dimensions

## 1400 Series - Pump Only Models 1420/1424



1400

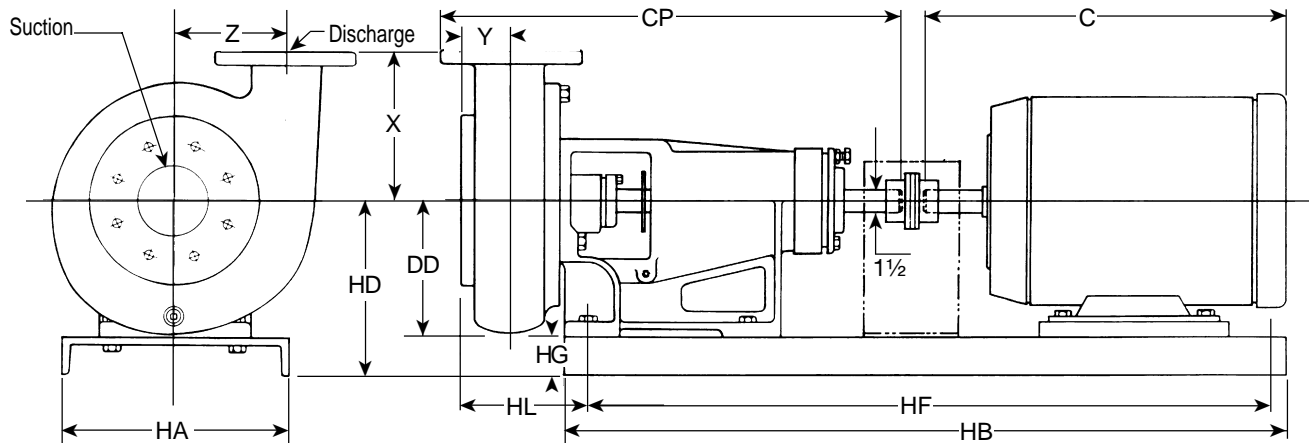
Not for construction unless certified, some dimensions may vary  $\pm 1/2"$ . Pump Construction: \_\_\_\_\_

CUSTOMER _____	CUSTOMER NO. _____					
PROJECT _____	SERIAL NO. _____					
ENGINEER _____	LOCATION _____					
CONTRACTOR _____						
PUMP Model _____	Size _____	Curve No. _____	GPM _____	Head _____	SP. GR. @Temp. _____	
DATA _____						
MOTOR Mfgr. _____	HP _____	RPM _____	Volt-Phase-Cycle _____	Frame ENC. _____	Furnished by _____	Mounted by _____
DATA _____						
Shop Order _____	Certified by _____	Date _____				



# VERIFLO PUMP COMPANY Dimensions

## 1400 Series - Base-Mounted Model 1434



Pump Size	SUCTION				DISCHARGE				X	Y	Z	CP	DD	HS
	Size	DIA. FLG.	Bolts	BC	Size	DIA. FLG.	Bolts	BC.						
6x4x12	6	11	8-3/4	9 1/2	4	9	8-5/8	7 1/2	9	2 3/4	7 3/4	28 1/8	9	7 1/8
6x4x12A	6	11	8-3/4	9 1/2	4	9	8-5/8	7 1/2	9	2 3/4	7 3/4	28 1/8	9	7 1/8
6x6x12	6	11	8-3/4	9 1/2	6	11	8-3/4	9 1/2	9	3 1/4	8 3/8	28 7/8	10 1/4	7 7/8
8x8x12	8	13 1/2	8-3/4	11 3/4	8	13 1/2	8-3/4	11 1/4	11	4 1/2	10 1/2	30 3/8	13 3/8	9 3/8
10x10x12	10	16	12-7/8	14 1/4	10	16	12-7/8	14 1/4	11	5 1/2	10 5/8	32 3/8	13 3/4	11 3/8

Frame Size	213T	215T	254T	256T	284TS	284T	286TS	286T	324TS	324T	326TS	326T	364TS	364T	365TS	365T	404TS	404T	405TS	405T
C	17 3/4	19 1/4	22 7/8	24 5/8	24 1/2	25 7/8	26	27 3/8	27 1/4	28 3/4	28 3/4	30 1/4	31	33 3/8	32	34 7/8	34 1/4	37 1/4	36	38 7/8
HA	15	15	15	15	15	15	15	15	18	18	18	18	18	18	18	18	25	25	25	25
HB	40	40	43	47	47	47	47	47	51	51	51	51	51	51	51	51	50	57	50	57
HD	12 3/8	12 3/8	12 3/8	12 3/8	12 3/8	12 3/8	12 3/8	12 3/8	13	13	13	13	13	13	13	13	15 1/2	15 1/2	15 1/2	15 1/2
HD 8x8x12	14 3/8	14 3/8	14 3/8	14 3/8	14 3/8	14 3/8	14 3/8	14 3/8	15	15	15	15	15	15	15	15	15 1/2	15 1/2	15 1/2	15 1/2
HD 10x10x12	14 3/8	14 3/8	14 3/8	14 3/8	14 3/8	14 3/8	14 3/8	14 3/8	15	15	15	15	15	15	15	15	15 1/2	15 1/2	15 1/2	15 1/2
HF	37 1/2	37 1/2	40 1/2	44 1/2	44 1/2	44 1/2	44 1/2	44 1/2	48 1/2	48 1/2	48 1/2	48 1/2	48 1/2	48 1/2	48 1/2	48 1/2	47	54	47	54
HG	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	4	4	4	4	4	4	4	4	4 1/2	4 1/2	4 1/2	4 1/2

Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity • 30 SSU

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

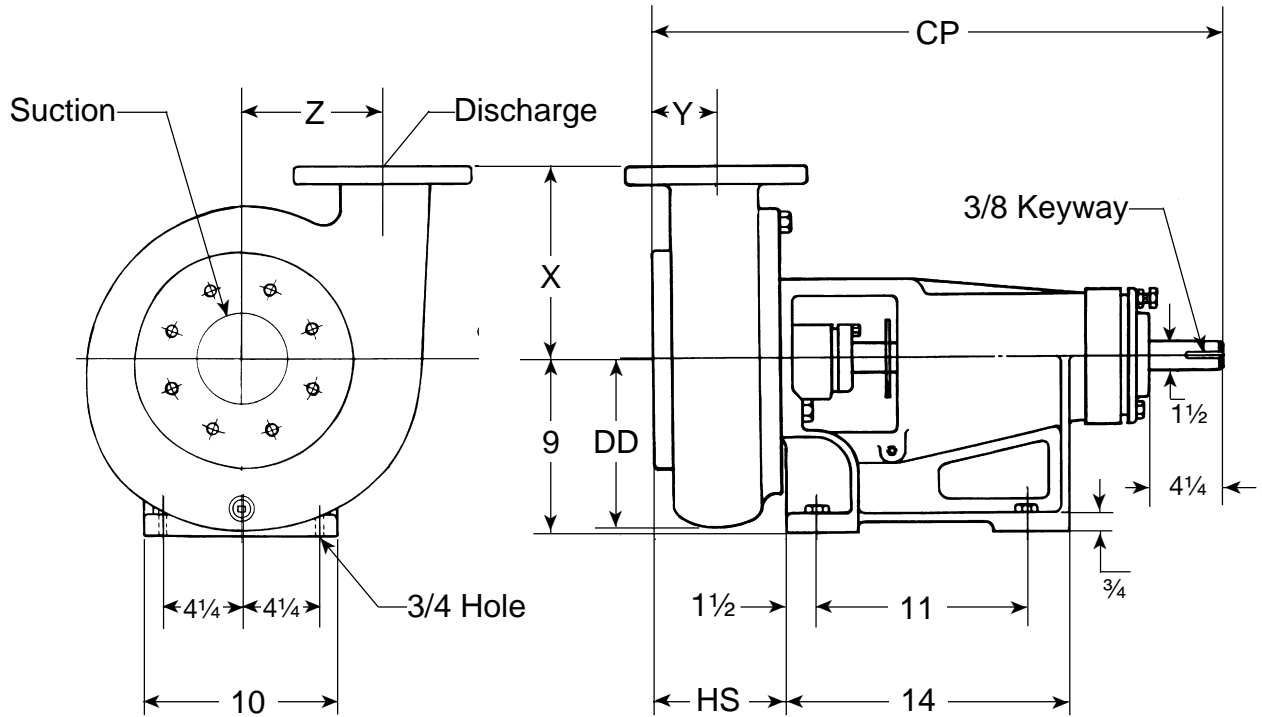
ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

CONDITIONS: \_\_\_\_\_ GPM \_\_\_\_\_ TDH \_\_\_\_\_ HP \_\_\_\_\_ EFF% \_\_\_\_\_ IMP. DIA \_\_\_\_\_

# VERTIFLO PUMP COMPANY Dimensions

## Model 1434 - Pump Only



1400

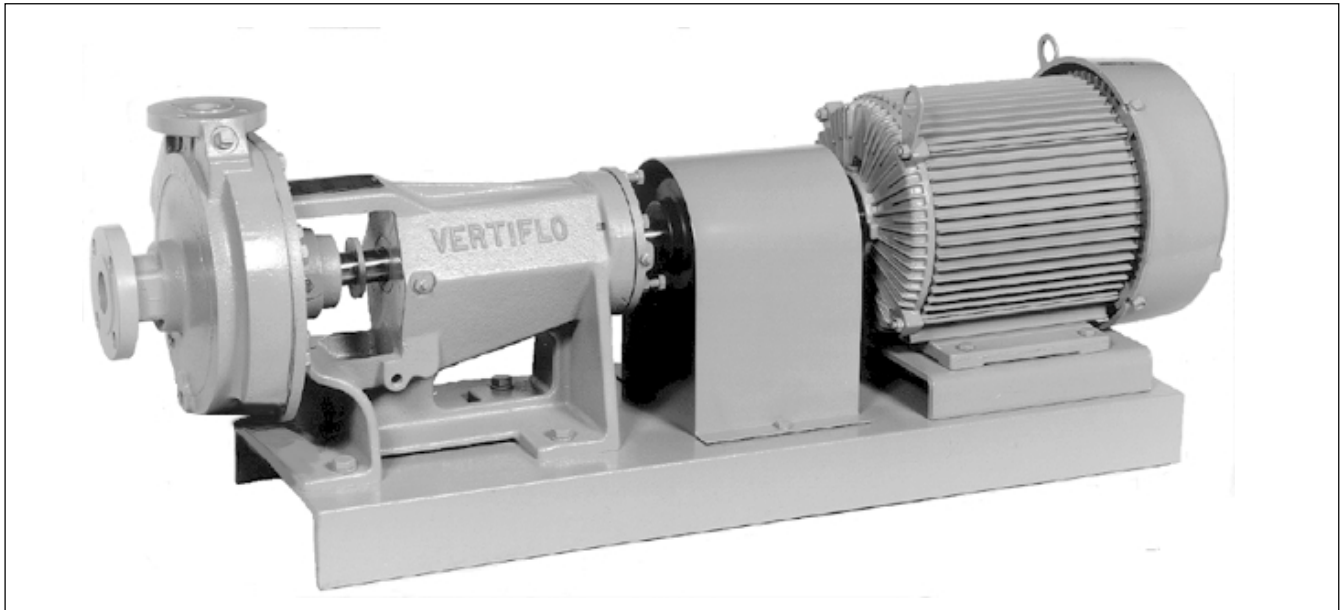
Not for construction unless certified, some dimensions may vary  $\pm 1/2"$ . Pump Construction: \_\_\_\_\_

CUSTOMER _____	CUSTOMER NO. _____						
PROJECT _____	SERIAL NO. _____						
ENGINEER _____	LOCATION _____						
CONTRACTOR _____							
PUMP Model _____	Size _____	Curve No. _____	GPM _____	Head _____	SP. GR. @Temp. _____	Pump Length _____	Plate _____
DATA _____							
MOTOR Mfr. _____	HP _____	RPM _____	Volt-Phase-Cycle _____	Frame _____	ENC. _____	Furnished by _____	Mounted by _____
DATA _____							
Shop Order _____	Certified by _____	Date _____					



**VERTIFLO** Model 1400LF

Quality Design Features Assure Long, Trouble-Free Service



**WIDE RANGE OF APPLICATIONS:**

- Boiler Feed
- Condensate
- Chemical Process
- Washdown
- Spray Washers

*Also available as  
vertical wet pit pump*

**CAPABILITIES**

- Capacities to 50 GPM
- Heads To 345 Feet TDH
- Temperature to 250° F
- Back Pull-Out Construction
- Radial Vane Impeller
- External Impeller Adjustment
- Packing or Mechanical Seal

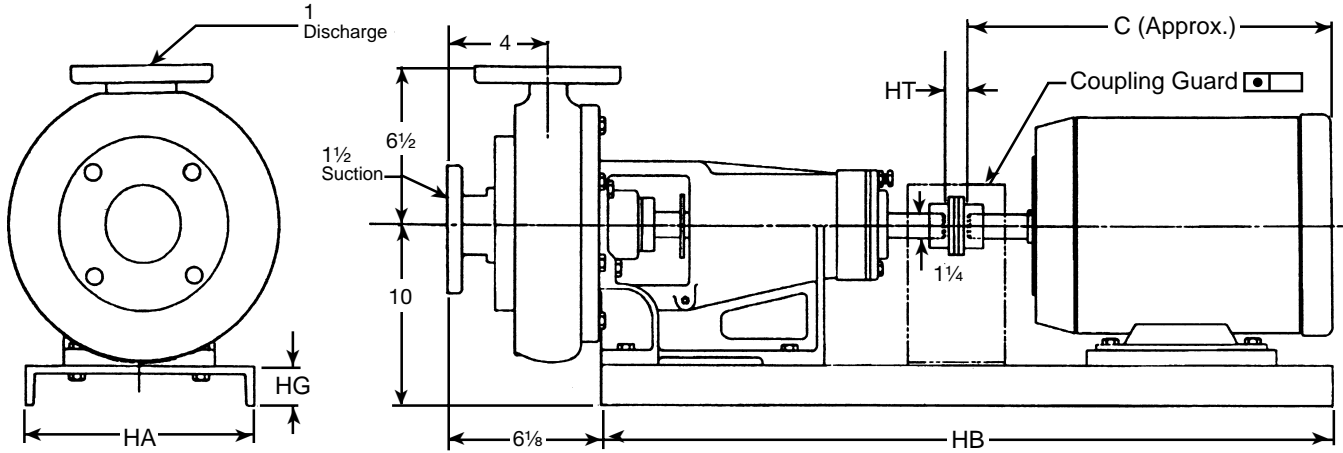
**CONSTRUCTION:**

- Ductile Iron
- Bronze Fitted
- 316 Stainless Steel Fitted
- All 316 Stainless Steel

*Series 1400 horizontal base-mounted end suction pumps are designed for use with any T or U frame motor, or with virtually any type of drive. VERTIFLO's base-mounted pumps are designed with back pull-out feature. This important feature allows for easy inspection or service/ maintenance (if ever needed) without disturbing the piping to the pump: an important cost saving feature.*

*Packing or various mechanical seal arrangements are available as standard options of this rugged, dependable product.*

# VERTIFLO PUMP COMPANY



## 1400LF Dimensions

Frame No.	143T	145T	182T	184T	213T	215T	254T	256T	284TS	284T
HA	12	12	12	12	12	12	15	15	15	15
HB	36	36	36	36	36	36	44	44	44	44
C	13 <sup>1</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>8</sub>	14 <sup>5</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>8</sub>	17 <sup>3</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>4</sub>	22 <sup>7</sup> / <sub>8</sub>	24 <sup>5</sup> / <sub>8</sub>	24 <sup>1</sup> / <sub>2</sub>	25 <sup>7</sup> / <sub>8</sub>
HG	3	3	3	3	3	3	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>
HT	3/4	3/4	3/4	3/4	3/4	3/4	1	1	1	1

## 1400LF Performance Curve

