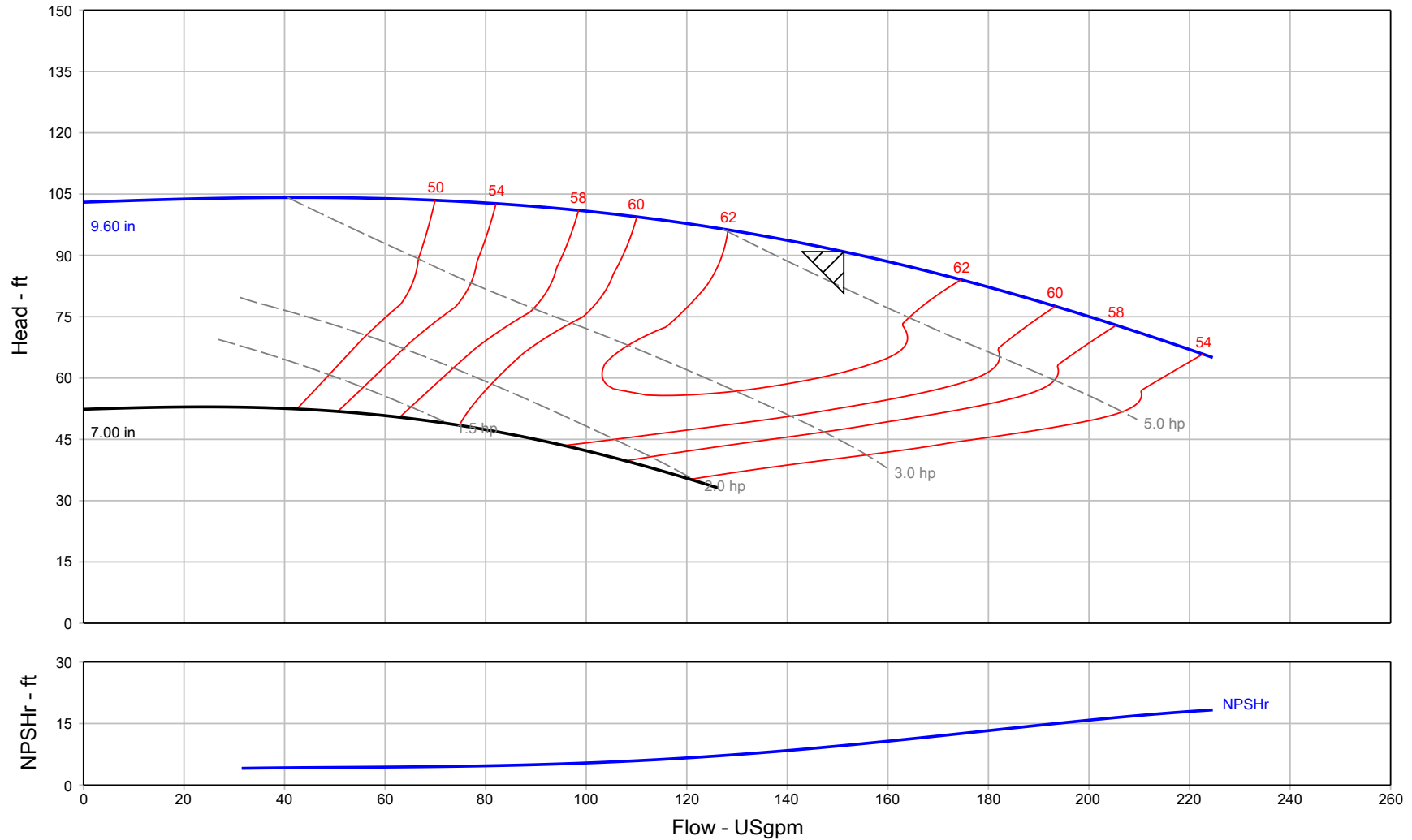
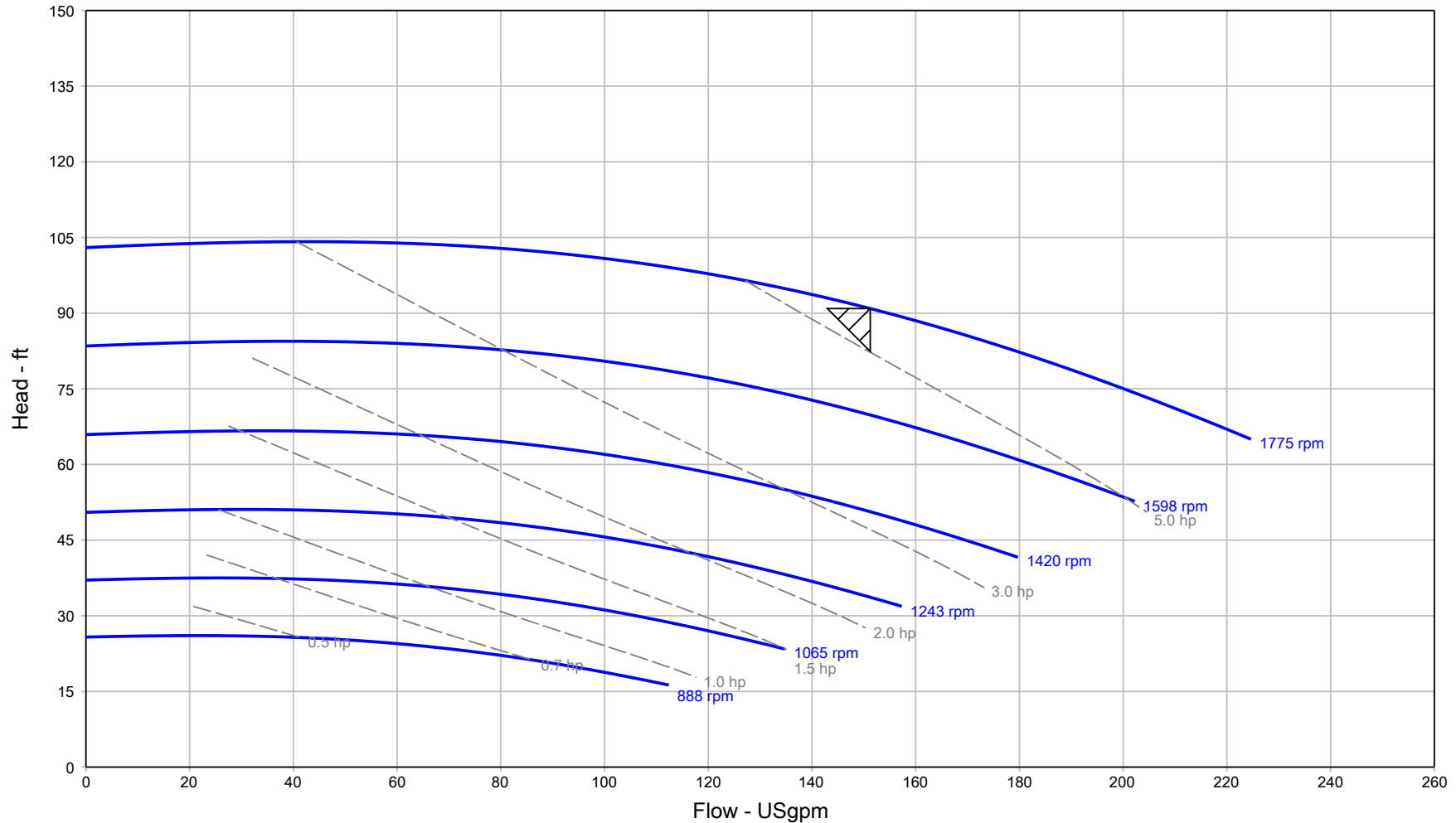


**Pump Performance Curve**



Project name	: Default	Tag Number	: 004	Flow, rated	: 151.2 USgpm
Consulting engineer	:	Service	:	Differential head / pressure, rated	: 90.91 ft
Customer	:	Model	: 20959 VL	Rated power (based on duty point)	: 5.52 hp
Customer ref. / PO	:	Quantity	: 1	Max power (non-overloading)	: 6.90 hp
Quote Number / ID	: 596697	Quoted By (Sales Office)	: PFC EQUIPMENT INC	Efficiency	: 62.86 %
Date last saved	: 02/26/2020 11:35 AM	Quoted By (Sales Engineer)	: Kelly Kresa	Impeller diameter, rated	: 9.60 in
Based on curve number	: VL_20959_4P Rev 0.0	Stages	: 1	PEI (CL)	: 0.90
		Speed, rated	: 1775 rpm	ER (CL)	: 10

**Multi-Speed Performance Curve**



Project name	: Default	Tag Number	: 004	Speed, rated	: 1775 rpm
Consulting engineer	:	Service	:	Flow, rated	: 151.2 USgpm
Customer	:	Model	: 20959 VL	Differential head / pressure, rated	: 90.91 ft
Customer ref. / PO	:	Quantity	: 1	Fluid density, rated / max	: 1.000 / 1.000 SG
Quote Number / ID	: 596697	Quoted By (Sales Office)	: PFC EQUIPMENT INC	Viscosity	: 1.00 cP
Date last saved	: 02/26/2020 11:35 AM	Quoted By (Sales Engineer)	: Kelly Kresa	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
		Stages	: 1	Based on curve number	: VL_20959_4P Rev 0.0

**Construction Datasheet**

Project name	: Default	Tag Number	: 004
Consulting engineer	:	Service	:
Customer	:	Model	: 20959 VL
Customer ref. / PO	:	Quantity	: 1
Quote Number / ID	: 596697	Quoted By (Sales Office)	: PFC EQUIPMENT INC
Date last saved	: 02/26/2020 11:35 AM	Quoted By (Sales Engineer)	: Kelly Kresa

Construction				Motor Information	
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Nozzle	Size (in.)	Nozzle Configuration	Pos'n	Manufacturer	: Baldor
Suction	2	125# ANSI	Side	Frame Size	: 213JM
Discharge	2	125# ANSI	Side	Power	: 7.50 hp

Orientation / Configuration	: Vertical	RPM	: 1800 rpm
Rotation	: Clockwise	Enclosure	: TEFC
Wear Ring Configuration	: Single - Case	Operating Power Supply	: 230/460/3/60
Discharge Elbow Size	: -	Efficiency	: Premium
Subplate	: -	Service factor	: 1.15
Sump Depth (feet)	: -	Motor Application	: General Purpose
Bearing Frame	: -	Motor Options/Accessories	: -
Bearing Frame Foot	: -	Cord Length (feet)	: -
Bearing Type (Radial/Thrust)	: In motor		
Bearing Lubrication	: Regreasable		
Thrust Bearing	: -		
Intermediate Bearing	: -		
Lower Bearing	: -		
Bearing Housing Accessories	: -		
PACO Construction code	: 16-20959-130108-2742P		

Materials	
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Case	: Cast Iron, ASTM A48 - Class 30
Motor Bracket	: Cast Iron, ASTM-A48, CL 30
Impeller	: Stainless Steel, AISI-304 (H304)
Impeller Cap Screw and Washer	: Stainless Steel, AISI-303
Impeller Key	: Stainless Steel, AISI 316
Case wear ring	: Tin Bronze, ASTM B584-90500 (B18)
Impeller wear ring	: -
Pump Shaft	: Steel, AISI-1040
Sleeve	: Bronze, III932, C89835
Line Shaft	: -
Column	: -
Discharge Pipe	: -
Discharge Elbow	: -
Suction Elbow	: -
Subplate	: -
Hardware	: Steel, Grade 5
O Rings	: Buna N
Pump Coatings	: Standard Manufacturers Paint

Baseplate, Coupling and Guard	
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Baseplate	: Not Applicable
Drip Pan	: -
Coupling	: -
Guard	: OSHA Approved

Seal & Packing Construction	
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Sealing Method	: Single Seal, Type 21S
Seal Material	: Buna Carbon Ceramic SS-Spring and Hardware
Packing Gland	: -
Lantern Ring	: -
Recirculation Lines	: Nylon Tubing with Brass Fittings

Weights (Approx.)	
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Pump	: 119.0 lb
Baseplate	: -
Driver	: 142.0 lb
Estimated Shipping gross weight	: 261.0 lb

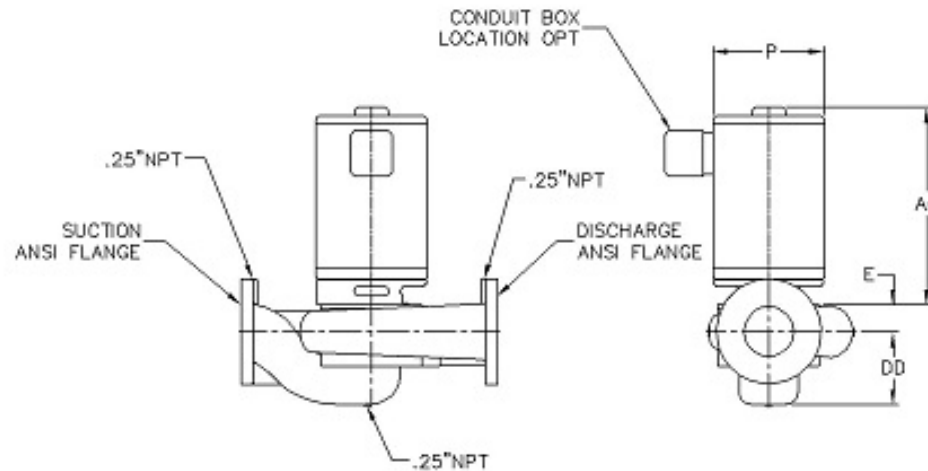
## General Arrangement

Project name : Default	Tag Number : 004
Consulting engineer :	Service :
Customer :	Model : 20959 VL
Customer ref. / PO :	Quantity of pumps : 1
Quote Number / ID : 596697	Quoted By (Sales Office) : PFC EQUIPMENT INC
Date last saved : 02/26/2020 11:35 AM	Quoted By (Sales Engineer) : Kelly Kresa

Do not install pump larger than 215JM in vertical piping.

Pressure and drain tap locations are approximate.

Suction and discharge flanges, are cast per 250# ANSI thickness and diameter. All flanges are flat face. Some holes may be threaded because of nut clearances.



NOT FOR CONSTRUCTION, Unless certified and referenced on order

Units	Frame	S x D (in.)	AG (Max)	DC	DD	DE	E	P (Max)	X	YY	Weight ea
inches	<b>213JM</b>	<b>2 X 2</b>	<b>22.00</b>	<b>6.00</b>	<b>4.88</b>	<b>6.25</b>	<b>1.50</b>	<b>12.00</b>	<b>9.00</b>	<b>9.00</b>	<b>261.0</b>

Conditions of Service			Motor Data			
Flow: 151.2 USgpm	Fluid: Cold Water	HP: 7.5	Encl: TEFC	Phase: 3	Efficiency: Premium	
TDH: 90.91 ft	Temp.: 68.00 deg F	RPM: 1775 rpm	Hz: 60	Voltage: 230/460	S.F.: 1.15	