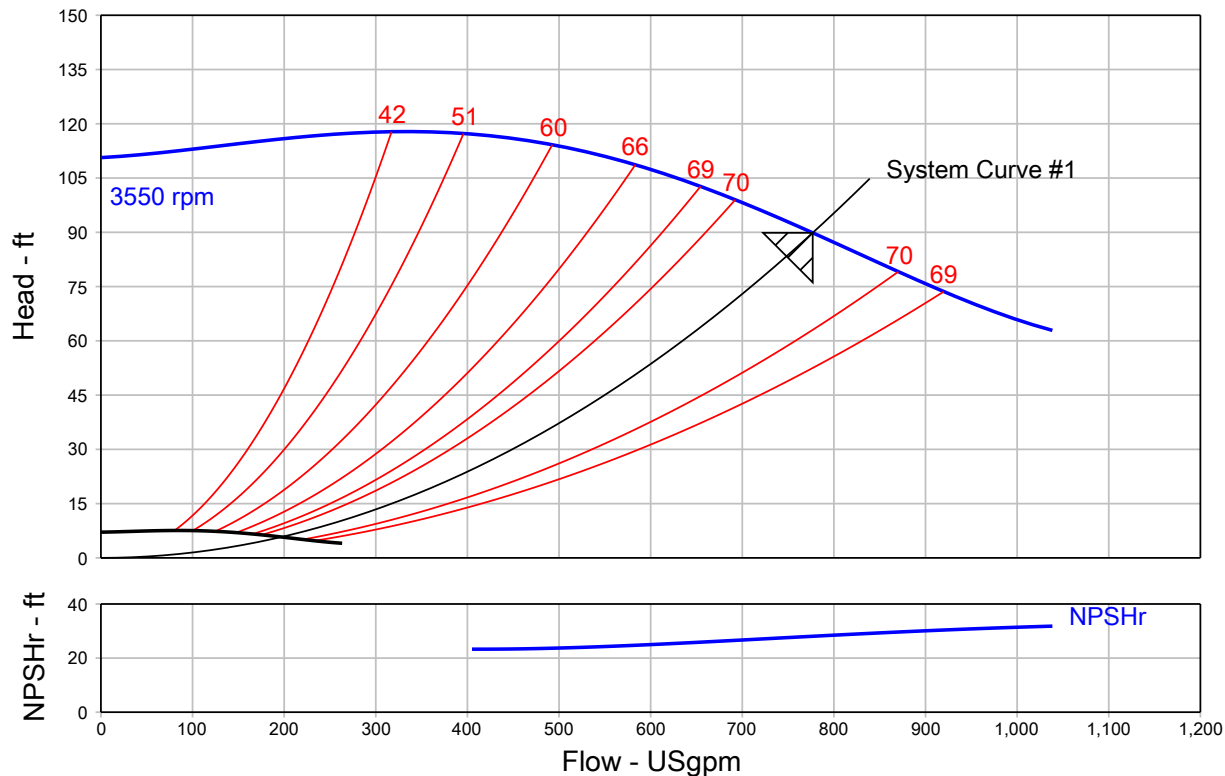


Pump Performance Datasheet

Customer :	Quote Number / ID :	1141840
Customer ref. / PO :	Model :	40707-2P-25HP LCSE
Tag Number : Hurley Engineering	Stages :	1
Service : HYDONIC	Based on curve number :	RC1959-SS-5.64 Rev 0
Quantity : 1	Basic model number :	-
	Date last saved :	03/30/2020 12:31 AM

Operating Conditions		Liquid	
Flow, rated	: 776.9 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 89.86 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 89.86 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG
Performance		Viscosity, rated	: 1.00 cP
Speed, rated	: 3550 rpm	Vapor pressure, rated	: 0.34 psi.a
Speed, maximum	: 3550 rpm	Material	
Speed, minimum	: 900 rpm	Material selected	: Cast Iron
Impeller diameter, rated	: 5.64 in	Pressure Data	
Efficiency	: 70.86 %	Maximum working pressure	: 51.00 psi.g
NPSH required / margin required	: 28.06 / 0.00 ft	Maximum allowable working pressure	: 175.0 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 66 / 157 Metric units	Maximum allowable suction pressure	: 175.0 psi.g
MCSF	: 278.7 USgpm	Hydrostatic test pressure	: 263.0 psi.g
Head maximum, rated speed	: 117.8 ft	Driver & Power Data (@Max density)	
Head rise to shutoff	: 23.13 %	Motor sizing specification	: Max power (non-overloading)
Flow, best eff. point	: 776.9 USgpm	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 100.00 %	Service factor	: 1.00 (used)
Speed ratio (rated / max)	: 100.00 %	Power, hydraulic	: 17.62 hp
Head ratio (rated speed / max speed)	: 100.00 %	Rated power (based on duty point)	: 24.87 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Max power (non-overloading)	: 24.94 hp
Selection status	: Acceptable	Nameplate motor rating	: 25.00 hp / 18.64 kW (Fixed)
Energy Indexes			
PEI (VL)	: 0.50		
ER (VL)	: 50		



Grundfos Series LCSE - Split Coupled End Suction Pump with Integrated VFD

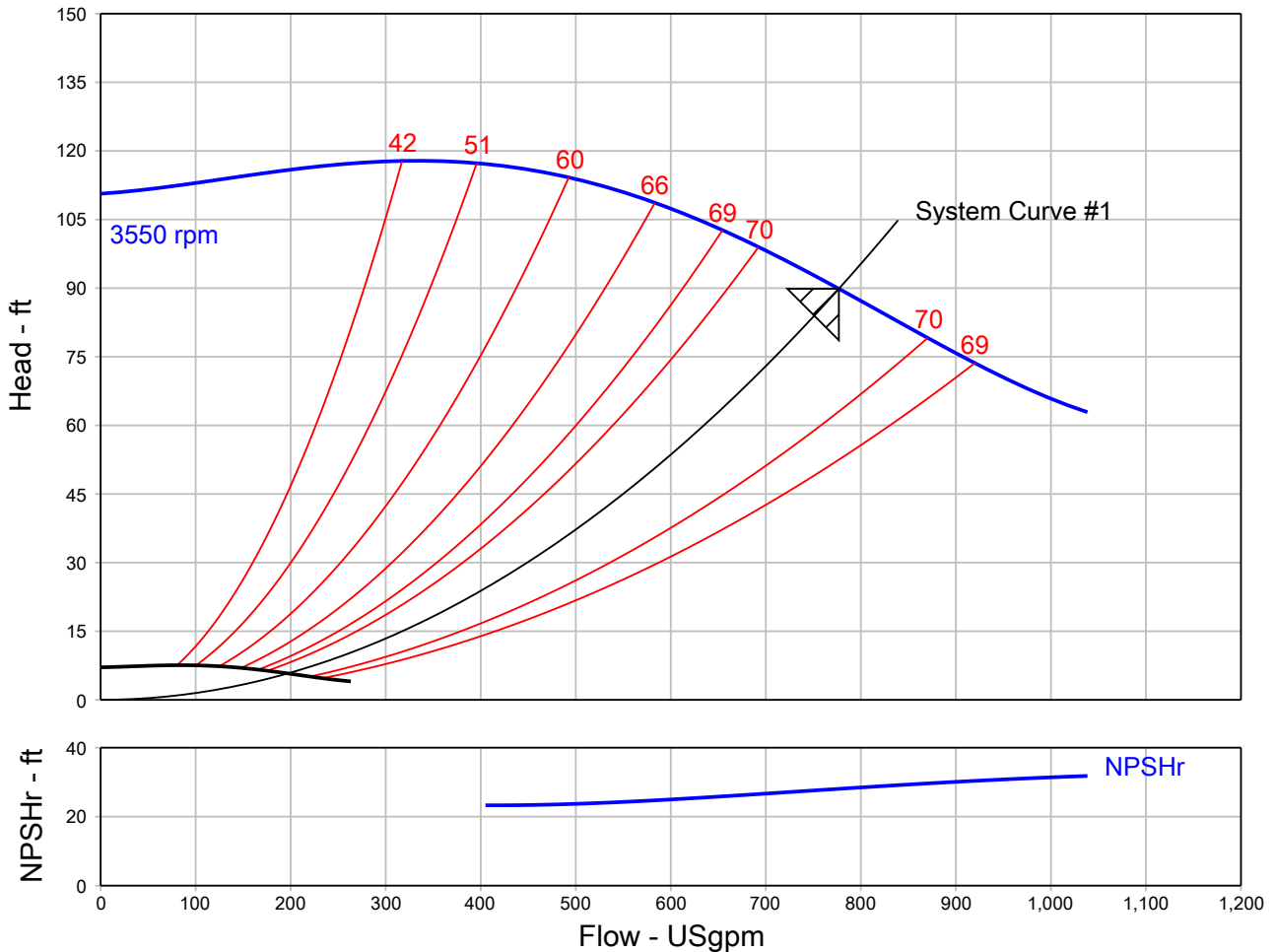
QUOTE NUMBER / ID 1141840	UNIT TAG Hurley Engineering	QUANTITY 1
REPRESENTATIVE	SERVICE HYDONIC	
ENGINEER	SUBMITTED BY	DATE
CONTRACTOR	APPROVED BY	DATE
	ORDER #	DATE



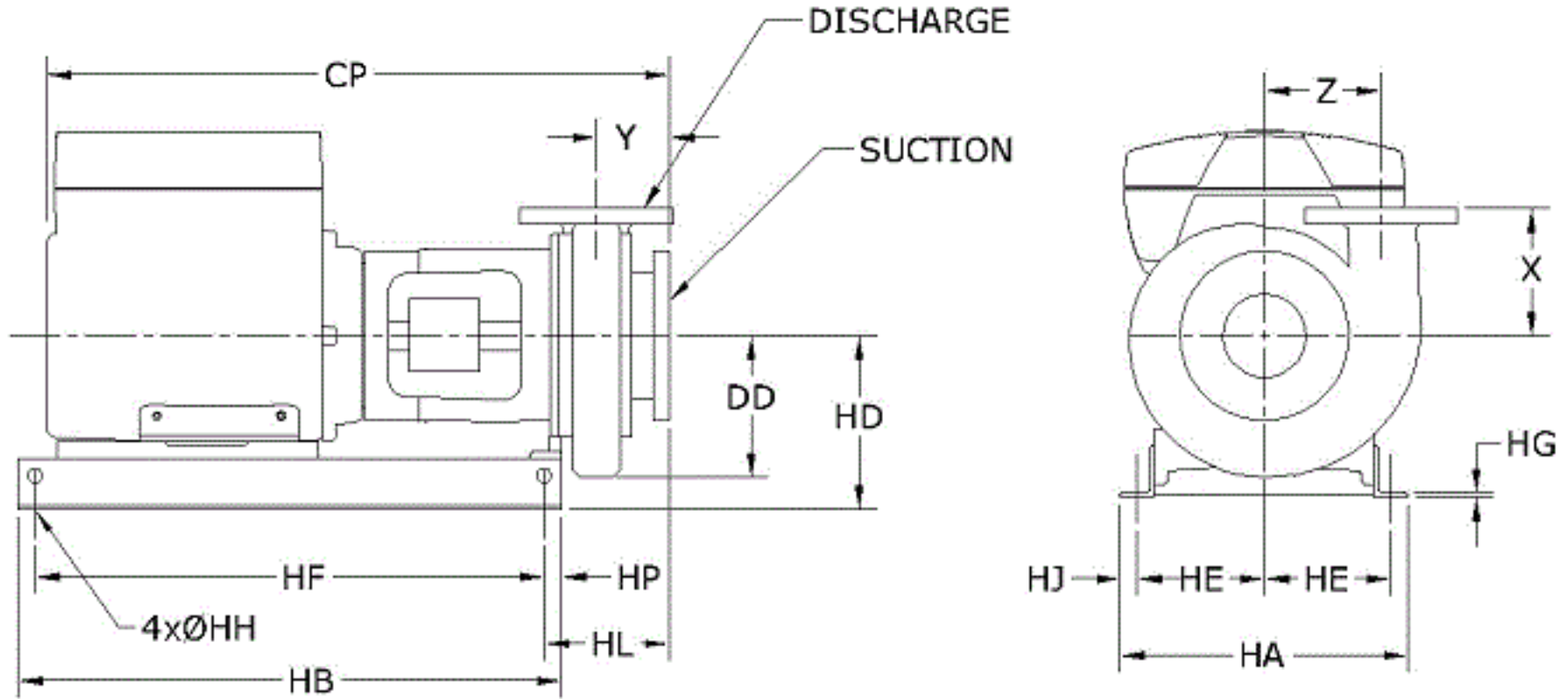
LCSE 40707-2P-25HP
3550 rpm

Part Number N/A

Conditions of Service		Pump Data		Motor Data	
Flow	776.9 USgpm	Impeller Diameter	5.64 in	Motor HP	25 HP
Head	89.86 ft	Efficiency	70.86 %	BHP	24.87
Liquid	Cold Water	Suction	5 in.	Enclosure	TEFC
Temperature	68.00 deg F	Discharge	4 in.	Voltage	460 V
NPSHr	28.06 ft	PEI (VL)	0.50	Phase	3 Phase
Viscosity	1.00 cP	ER (VL)	50	Cycle	60
Specific Gravity	1.000 SG			Frame Size	284TSC



Grundfos Series LCSE - Split Coupled End Suction Pump with Integrated VFD



NOT FOR CONSTRUCTION, unless certified and referenced on order

Units	Frame	Suct	Disch	CP	DD	HA	HB	HD	HE	HF	HG	HH	HJ	HL	HP	X	Y	Z
inches	284TSC	5	4	43.00	8.30	17.00	32.00	10.25	7.50	30.00	0.25	0.63	1.00	8.20	1.00	7.25	4.31	6.25

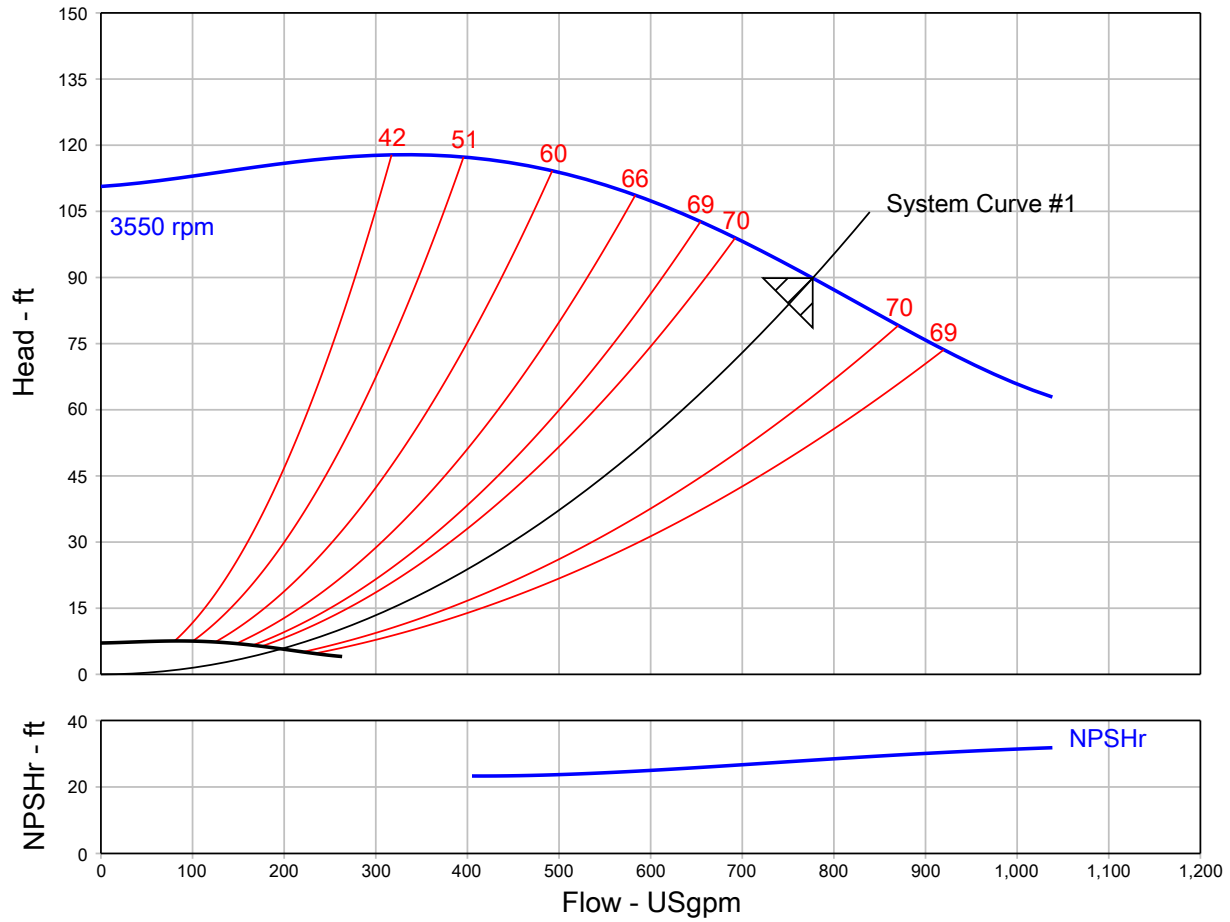
Grundfos Series LCSE - Split Coupled End Suction Pump with Integrated VFD

QUOTE NUMBER / ID 1141840	UNIT TAG Hurley Engineering	LCSE 40707-2P-25HP
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MATERIALS OF CONSTRUCTION			
PART	MATERIAL	PART	MATERIAL
Rotation Options	Clockwise	Impeller Washer	S.S., AISI-303
Base/Stand Type	Steel Base / Cast Iron	Impeller Key	Steel, AISI 1045
Bushing	Vesconite	Coupling Options	Rigid Aluminum Axially Split Coupling
Wear Ring Material	Vesconite	Pump Coatings	Standard Paint
Seal Type	Type 21	Seal Material	Ceramic/Carbon/Buna
O-Rings	Buna N	Casing	Cast Iron, ASTM-A48, CL 30
Backplate/Seal Plate	Cast Iron, ASTM-A48, CL 30	Seal Flush Options	External Flush, plastic tubing
Gaskets	Vegetable Fiber	Motor Bracket	Cast Iron, ASTM-A48, CL 30
Casing Bolts	Steel, Grade 5	Impeller	Stainless Steel, AISI-304
Impeller Cap Screw	S.S., AISI-303		

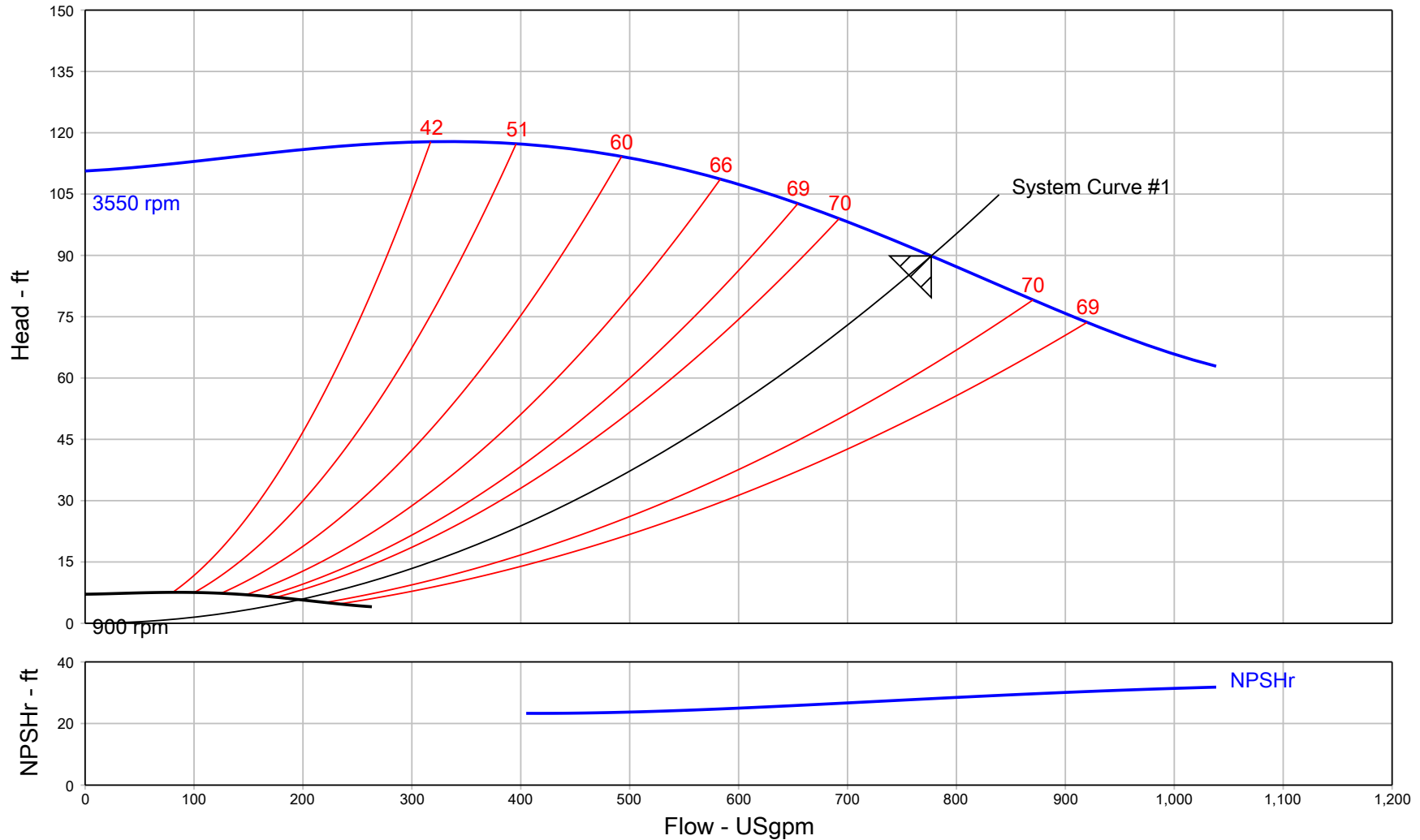
* All materials based on STANDARD configuration

Pump Performance Curve



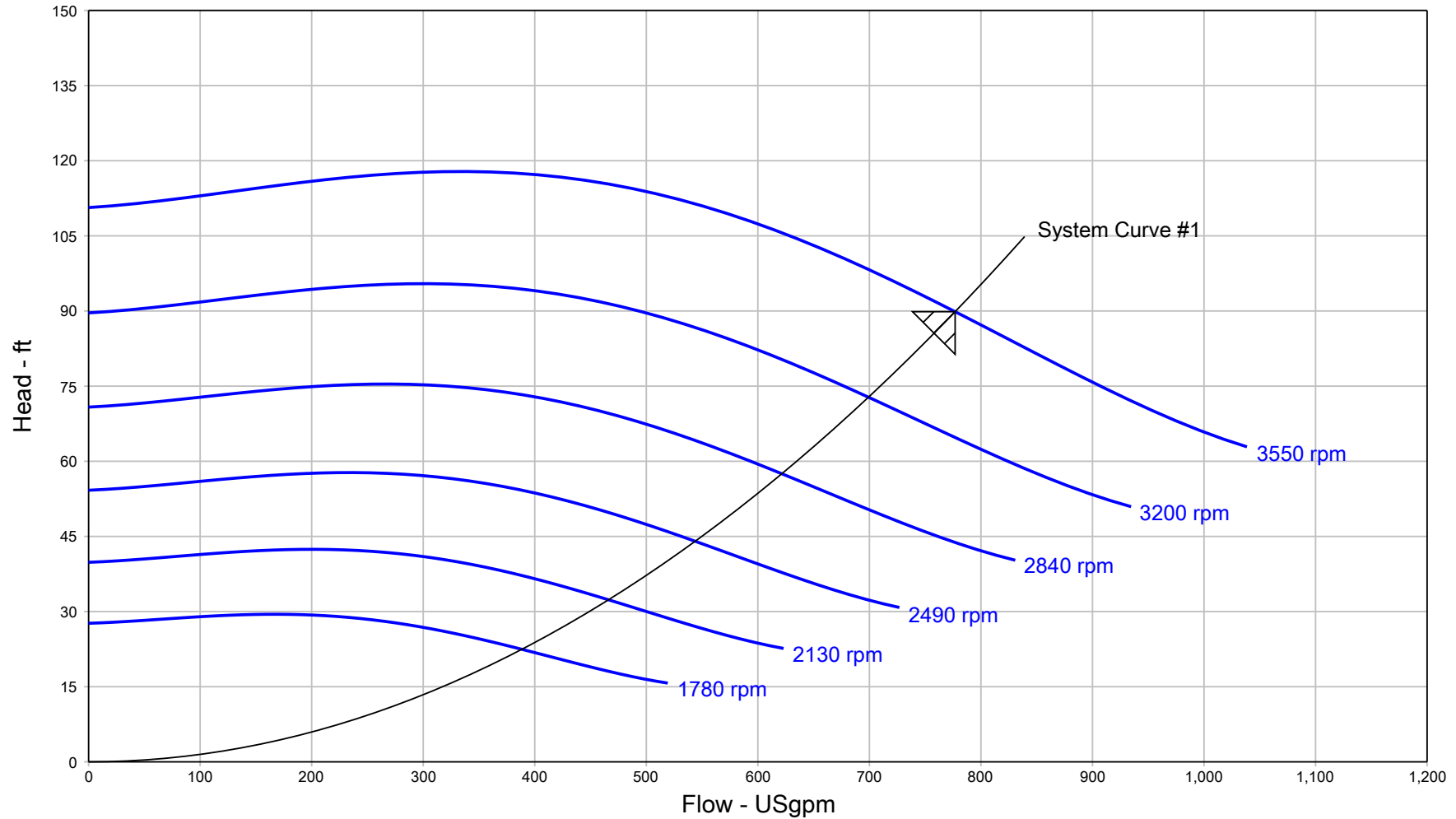
Customer :	Model :	40707-2P-25HP LCSE
Customer ref. / PO :	Stages :	1
Tag Number : Hurley Engineering	Speed, rated :	3550 rpm
Service : HYDONIC	Based on curve number :	RC1959-SS-5.64 Rev 0
Quantity : 1	Efficiency :	70.86 %
Quote Number / ID : 1141840	Rated power (based on duty point) :	24.87 hp
Date last saved : 03/30/2020 12:31 AM	NPSH required :	28.06 ft
Flow, rated : 776.9 USgpm	Viscosity :	1.00 cP
Differential head / pressure, rated : 89.86 ft	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] :	1.00 / 1.00 / 1.00 / 1.00
Fluid density, rated / max : 1.000 / 1.000 SG	Impeller diameter, rated :	5.64 in
	PEI (VL) :	0.50
	ER (VL) :	50

Pump Performance Curve



Project name : LCSE Project NC	Tag Number : Hurley Engineering	Flow, rated : 776.9 USgpm
Consulting engineer :	Service : HYDONIC	Differential head / pressure, rated : 89.86 ft
Customer :	Model : 40707-2P-25HP LCSE	Rated power (based on duty point) : 24.87 hp
Customer ref. / PO :	Quantity : 1	Max power (non-overloading) : 24.94 hp
Quote Number / ID : 1141840	Quoted By (Sales Office) : HURLEY ENGINEERING COMPANY	Efficiency : 70.86 %
Date last saved : 03/30/2020 12:31 AM	Quoted By (Sales Engineer) : Steven Leingang	Impeller diameter, rated : 5.64 in
Based on curve number : RC1959-SS-5.64 Rev 0	Stages : 1	PEI (VL) : 0.50
	Speed, rated : 3550 rpm	ER (VL) : 50

Multi-Speed Performance Curve



Project name	: LCSE Project NC	Tag Number	: Hurley Engineering	Speed, rated	: 3550 rpm
Consulting engineer	:	Service	: HYDONIC	Flow, rated	: 776.9 USgpm
Customer	:	Model	: 40707-2P-25HP LCSE	Differential head / pressure, rated	: 89.86 ft
Customer ref. / PO	:	Quantity	: 1	Fluid density, rated / max	: 1.000 / 1.000 SG
Quote Number / ID	: 1141840	Quoted By (Sales Office)	: HURLEY ENGINEERING COMPANY	Viscosity	: 1.00 cP
Date last saved	: 03/30/2020 12:31 AM	Quoted By (Sales Engineer)	: Steven Leingang	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
		Stages	: 1	Based on curve number	: RC1959-SS-5.64 Rev 0

Construction Datasheet

Project name	: LCSE Project NC	Tag Number	: Hurley Engineering
Consulting engineer	:	Service	: HYDONIC
Customer	: HURLEY ENGINEERING COMPANY	Model	: 40707-2P-25HP LCSE
Customer ref. / PO	:	Quantity	: 1
Quote Number / ID	: 1141840	Quoted By (Sales Office)	: HURLEY ENGINEERING COMPANY
Date last saved	: 03/30/2020 12:31 AM	Quoted By (Sales Engineer)	: Steven Leingang

Construction				Motor Information	
Nozzle	Size (in.)	Nozzle Configuration	Pos'n	Manufacturer	: Grundfos MLE
Suction	5	125# ANSI	-	Frame Size	: 284TSC
Discharge	4	125# ANSI	-	Power	: 25.00 hp

Orientation / Configuration	: Horizontal	RPM	: 3600 rpm
Rotation	: Clockwise	Enclosure	: TEFC
Wear Ring Configuration	: Single - Case	Operating Power Supply	: 460/3/60
Discharge Elbow Size	: -	Efficiency	: Premium
Subplate	: -	Service factor	: 1.15
Sump Depth (feet)	: -	Motor Application	: Suitable for Variable Speed Drive
Bearing Frame	: -	Motor Options/Accessories	: -
Bearing Frame Foot	: -	Cord Length (feet)	: -

Materials	
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	: Vesconite

Baseplate, Coupling and Guard	
Baseplate	: Welded Steel Fabrication
Drip Pan	: No drip pan
Coupling	: Rigid, Axial Split Coupling (aluminum) RASC4
Guard	: OSHA Approved

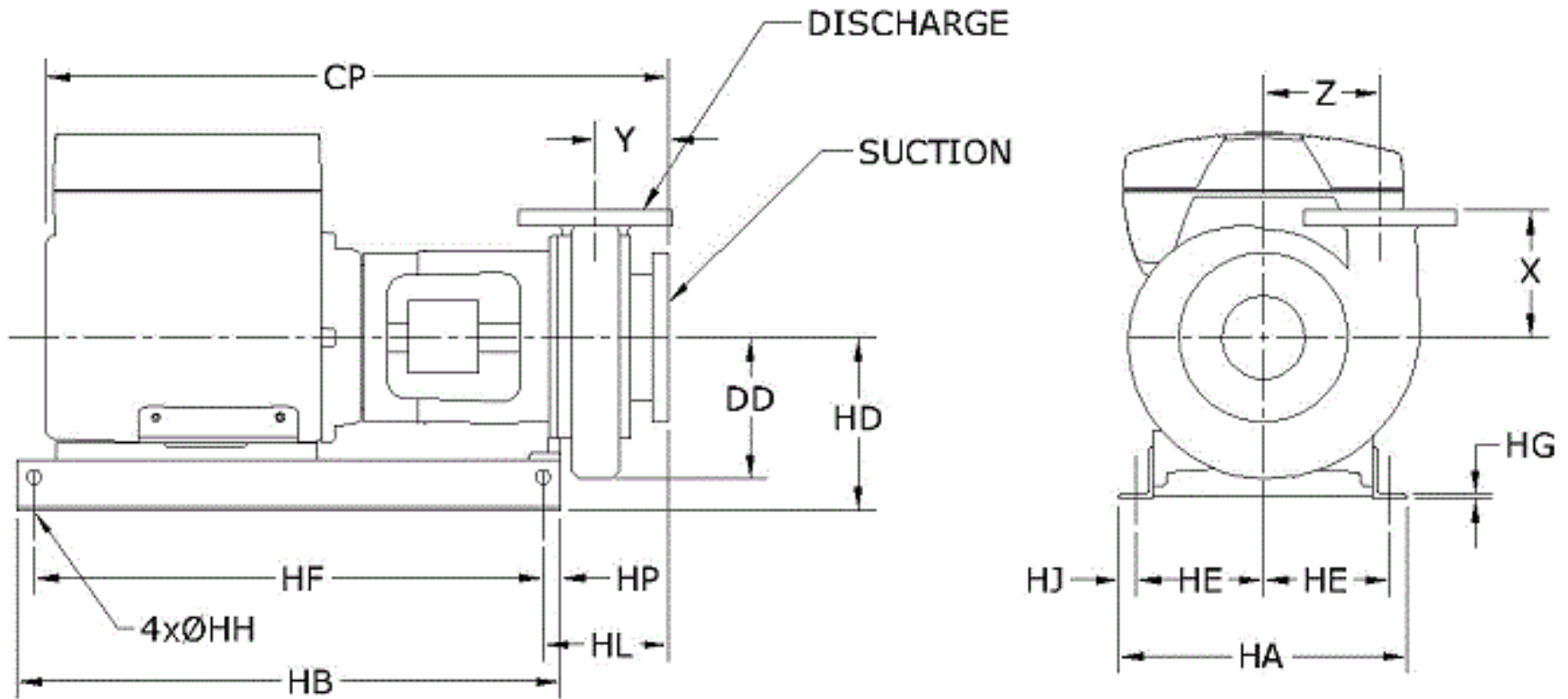
Seal & Packing Construction	
Sealing Method	: Single Seal, Type 21
Seal Material	: Buna Carbon Ceramic SS-Spring and Hardware
Packing Gland	: -
Lantern Ring	: -
Recirculation Lines	: Nylon Tubing with Brass Fittings

Weights (Approx.)	
Pump	: 88.00 lb
Baseplate	: 22.00 lb
Driver	: 338.0 lb
Estimated Shipping gross weight	: 448.0 lb

Impeller wear ring	: -
Pump Shaft	: Stainless Steel, AISI-303
Sleeve	: -
Line Shaft	: -
Column	: -
Discharge Pipe	: -
Discharge Elbow	: -
Suction Elbow	: -
Subplate	: -
Hardware	: Steel, Grade 5
O Rings	: Buna N
Pump Coatings	: Standard Manufacturer's Paint

General Arrangement

Project name	: LCSE Project NC	Tag Number	: Hurley Engineering
Consulting engineer	:	Service	: HYDONIC
Customer	: HURLEY ENGINEERING COMPANY	Model	: 40707-2P-25HP LCSE
Customer ref. / PO	:	Quantity of pumps	: 1
Quote Number / ID	: 1141840	Quoted By (Sales Office)	: HURLEY ENGINEERING COMPANY
Date last saved	: 03/30/2020 12:31 AM	Quoted By (Sales Engineer)	: Steven Leingang



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Units	Frame	Suct(in)	Disch(in)	CP	DD	HA	HB	HD	HE	HF	HG	HH	HJ	HL	HP	X	Y	Z	Weight ea
inches	284TSC	5	4	43.00	8.30	17.00	32.00	10.25	7.50	30.00	0.25	0.63	1.00	8.20	1.00	7.25	4.31	6.25	448.0

Conditions of Service				Motor Data			
Flow: 776.9 USgpm	Fluid: Cold Water	HP: 25	Encl: TEFC	Phase: 3	Efficiency: Premium		
TDH: 89.86 ft	Temp.: 68.00 deg F	RPM: 3550 rpm	Hz: 60	Voltage: 460	S.F.: 1.15		