

Pump Performance Datasheet

Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	20959 VL
Tag Number : 001	Stages :	1
Service :	Based on curve number :	VL_20959_2P Rev 0
Quantity : 1	Basic model number :	-
	Date last saved :	11/03/2023 5:47 PM

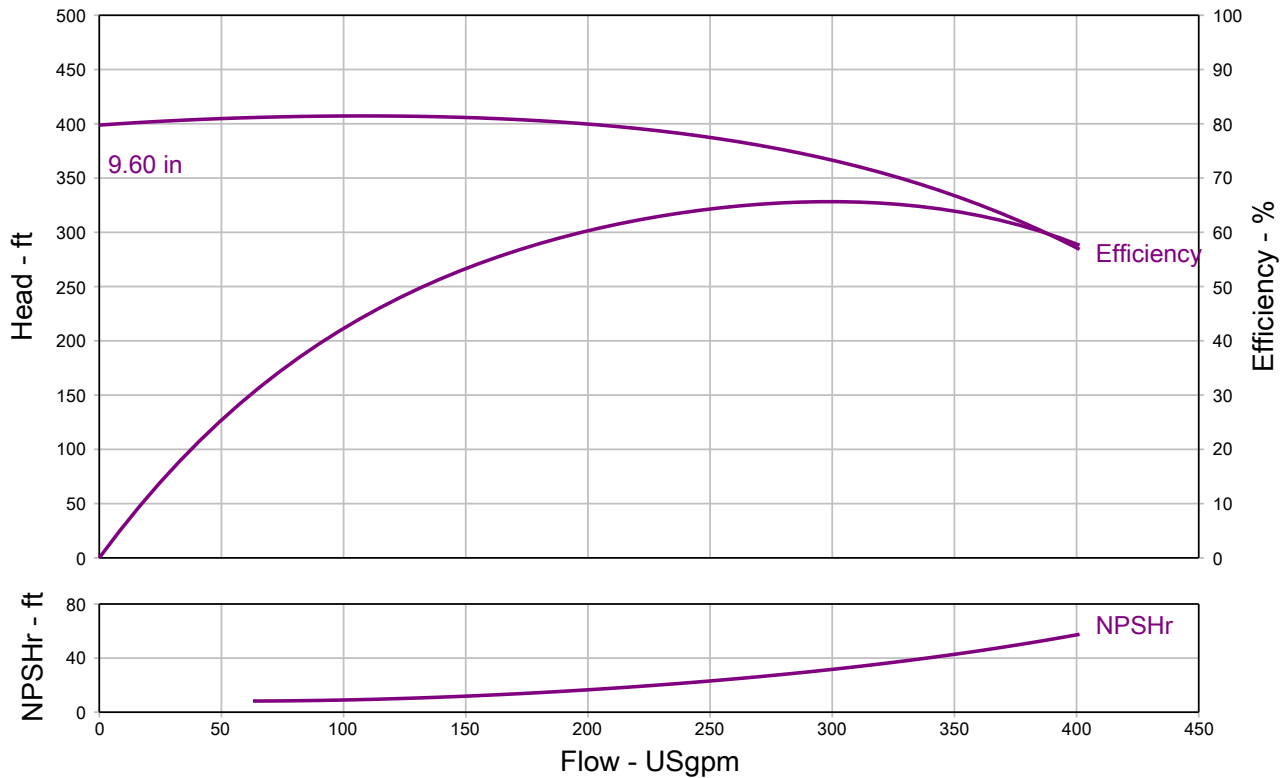
Operating Conditions		Liquid	
Flow, rated	: 299.1 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 366.9 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 366.9 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG

Performance		Material	
Speed, rated	: 3550 rpm	Material selected	: Ductile iron
Impeller diameter, rated	: 9.60 in		
Impeller diameter, maximum	: 9.60 in		
Impeller diameter, minimum	: 7.00 in		
Efficiency	: 65.65 %		

Performance		Pressure Data	
NPSH required / margin required	: 31.47 / 0.00 ft	Maximum working pressure	: 176.2 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 14 / 89 Metric units	Maximum allowable working pressure	: 400.0 psi.g
MCSF	: 90.28 USgpm	Maximum allowable suction pressure	: 400.0 psi.g
Head, maximum, rated diameter	: 407.2 ft	Hydrostatic test pressure	: 600.0 psi.g
Head rise to shutoff	: 8.68 %		

Performance		Driver & Power Data (@Max density)	
Flow, best eff. point	: 299.1 USgpm	Motor sizing specification	: Max power (non-overloading)
Flow ratio, rated / BEP	: 100.00 %	Margin over specification	: 0.00 %
Diameter ratio (rated / max)	: 100.00 %	Service factor	: 1.00
Head ratio (rated dia / max dia)	: 100.00 %	Power, hydraulic	: 27.70 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Rated power (based on duty point)	: 42.20 hp
Selection status	: Acceptable	Max power (non-overloading)	: 49.98 hp
		Nameplate motor rating	: 50.00 hp / 37.29 kW

Energy Indexes	
PEI (CL)	: 0.86
ER (CL)	: 14



Grundfos Series VL - In-Line Centrifugal Pump, Close Coupled

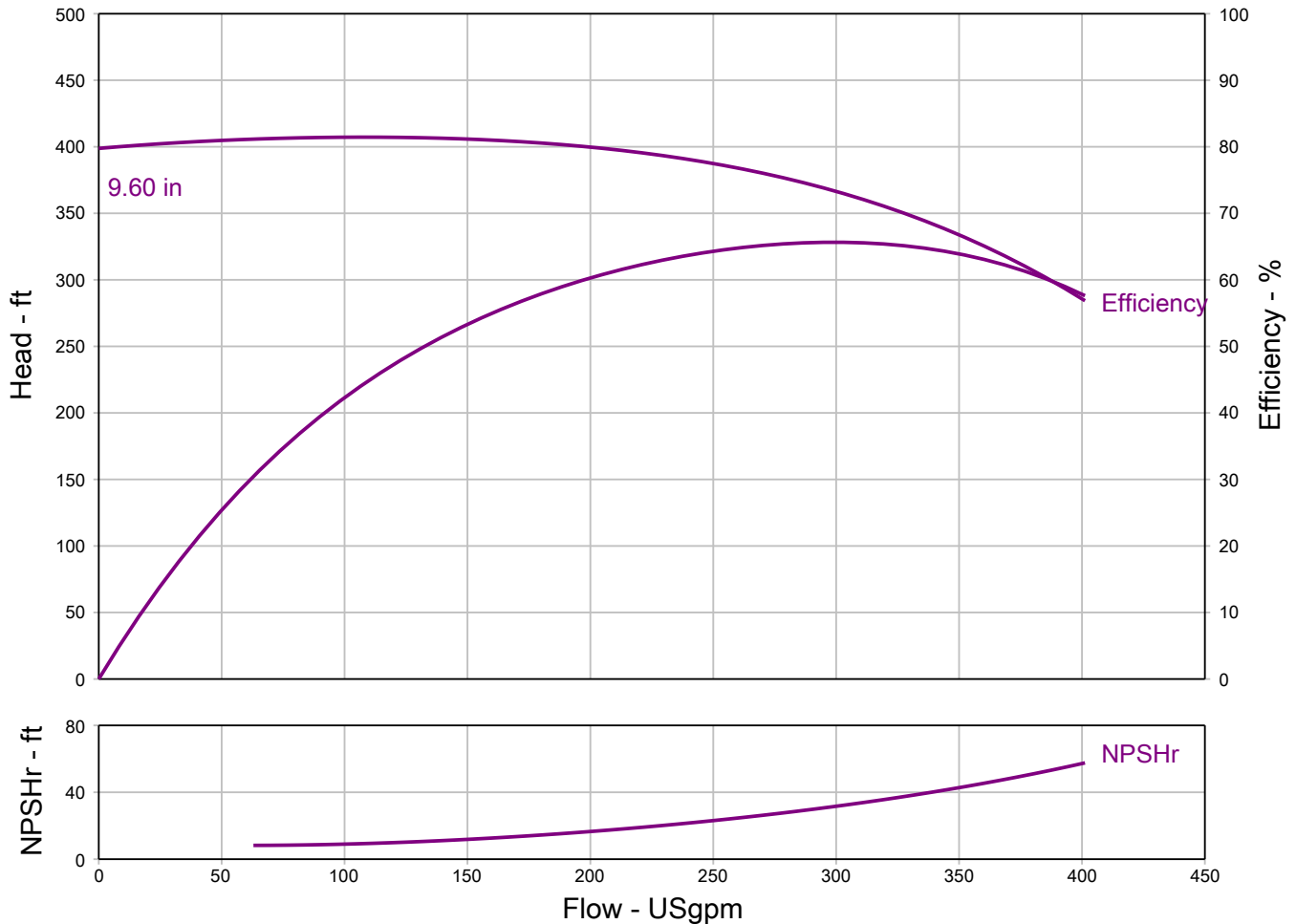
QUOTE NUMBER / ID 1471203	UNIT TAG 001	QUANTITY 1
REPRESENTATIVE	SERVICE	
ENGINEER	SUBMITTED BY	DATE
CONTRACTOR	APPROVED BY	DATE
	ORDER #	DATE



VL 20959
3550 rpm

Part Number N/A

Conditions of Service		Pump Data		Motor Data	
Flow	299.1 USgpm	Impeller Diameter	9.60 in	Motor HP	50 HP
Head	366.9 ft	Max. Imp. Dia.	9.60 in	BHP	42.2 HP
Liquid	Cold Water	Min. Imp. Dia.	7.00 in	Enclosure	TEFC
Temperature	68.00 deg F	Efficiency	65.65 %	Voltage	230/460 V
NPSHr	31.47 ft	Suction	-1 in.	Phase	3 Phase
Viscosity	1.00 cP	Discharge	-1 in.	Cycle	60
Specific Gravity	1.000 SG	PEI (CL)	0.86	Frame Size	
		ER (CL)	14		



QUOTE NUMBER / ID 1471203

UNIT TAG 001

VL 20959

Grundfos Series VL - In-Line Centrifugal Pump, Close Coupled

NOT FOR CONSTRUCTION, unless certified and referenced on order

Units	Frame	S x D	AG (Max)	DC	DD	DE	E	P (Max)	X	YY	Weight
inches			-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	TBD