

## Pump Performance Datasheet

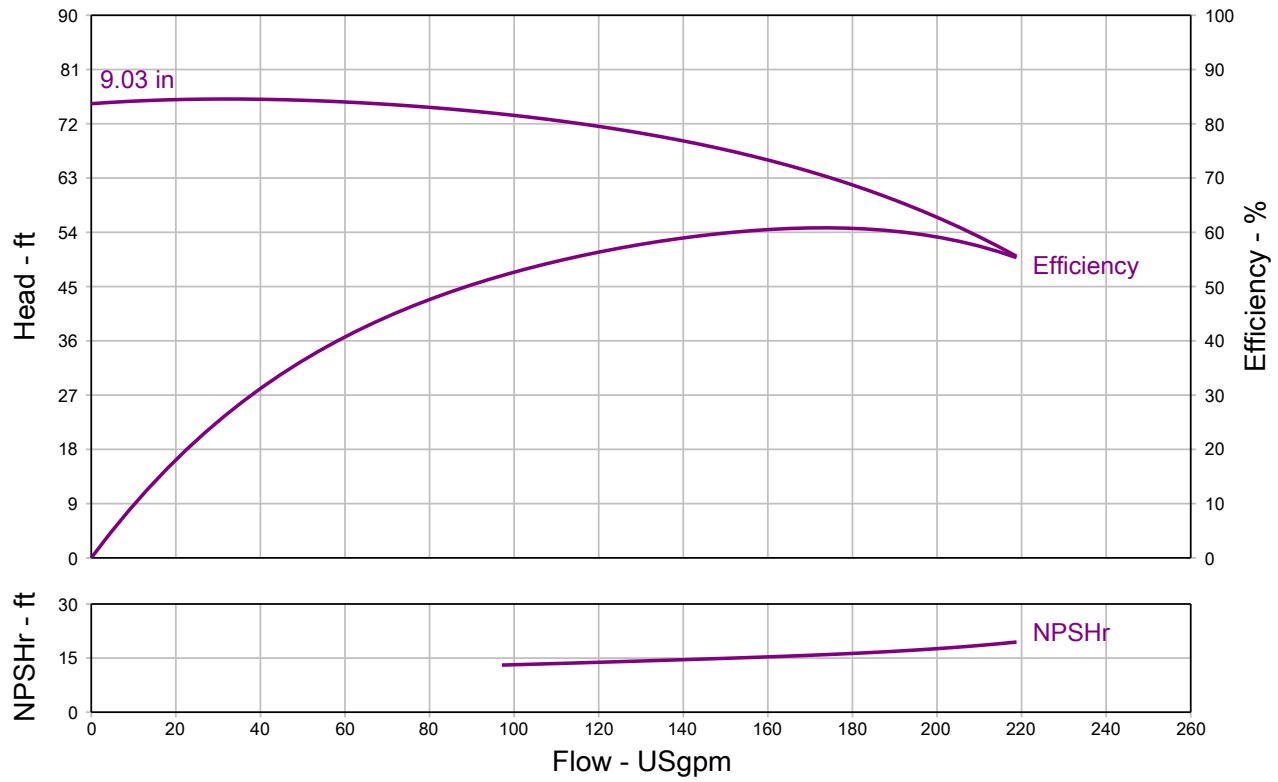
Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	25121 VL
Tag Number : 001	Stages :	1
Service :	Based on curve number :	VL_25121_4P Rev 0
Quantity : 1	Basic model number :	-
	Date last saved :	11/07/2023 2:59 PM

Operating Conditions		Liquid	
Flow, rated	: 173.2 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 63.39 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 63.39 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
		Viscosity, rated	: 1.00 cP
		Vapor pressure, rated	: 0.34 psi.a

Performance		Material	
Speed, rated	: 1760 rpm	Material selected	: Cast iron - 125#
Impeller diameter, rated	: 9.03 in		
Impeller diameter, maximum	: 12.10 in		
Impeller diameter, minimum	: 9.00 in		
Efficiency	: 60.82 %		

Performance		Pressure Data	
NPSH required / margin required	: 15.93 / 0.00 ft	Maximum working pressure	: 32.94 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 15 / 47 Metric units	Maximum allowable working pressure	: 175.0 psi.g
MCSF	: 52.47 USgpm	Maximum allowable suction pressure	: 175.0 psi.g
Head, maximum, rated diameter	: 76.11 ft	Hydrostatic test pressure	: 263.0 psi.g
Head rise to shutoff	: 18.83 %		
Flow, best eff. point	: 173.2 USgpm		
Flow ratio, rated / BEP	: 100.00 %		
Diameter ratio (rated / max)	: 74.63 %		
Head ratio (rated dia / max dia)	: 45.25 %		
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

Energy Indexes		Driver & Power Data (@Max density)	
PEI (CL)	: 0.99	Motor sizing specification	: Max power (non-overloading)
ER (CL)	: 1	Margin over specification	: 0.00 %
		Service factor	: 1.00
		Power, hydraulic	: 2.77 hp
		Rated power (based on duty point)	: 4.56 hp
		Max power (non-overloading)	: 4.99 hp
		Nameplate motor rating	: 5.00 hp / 3.73 kW



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

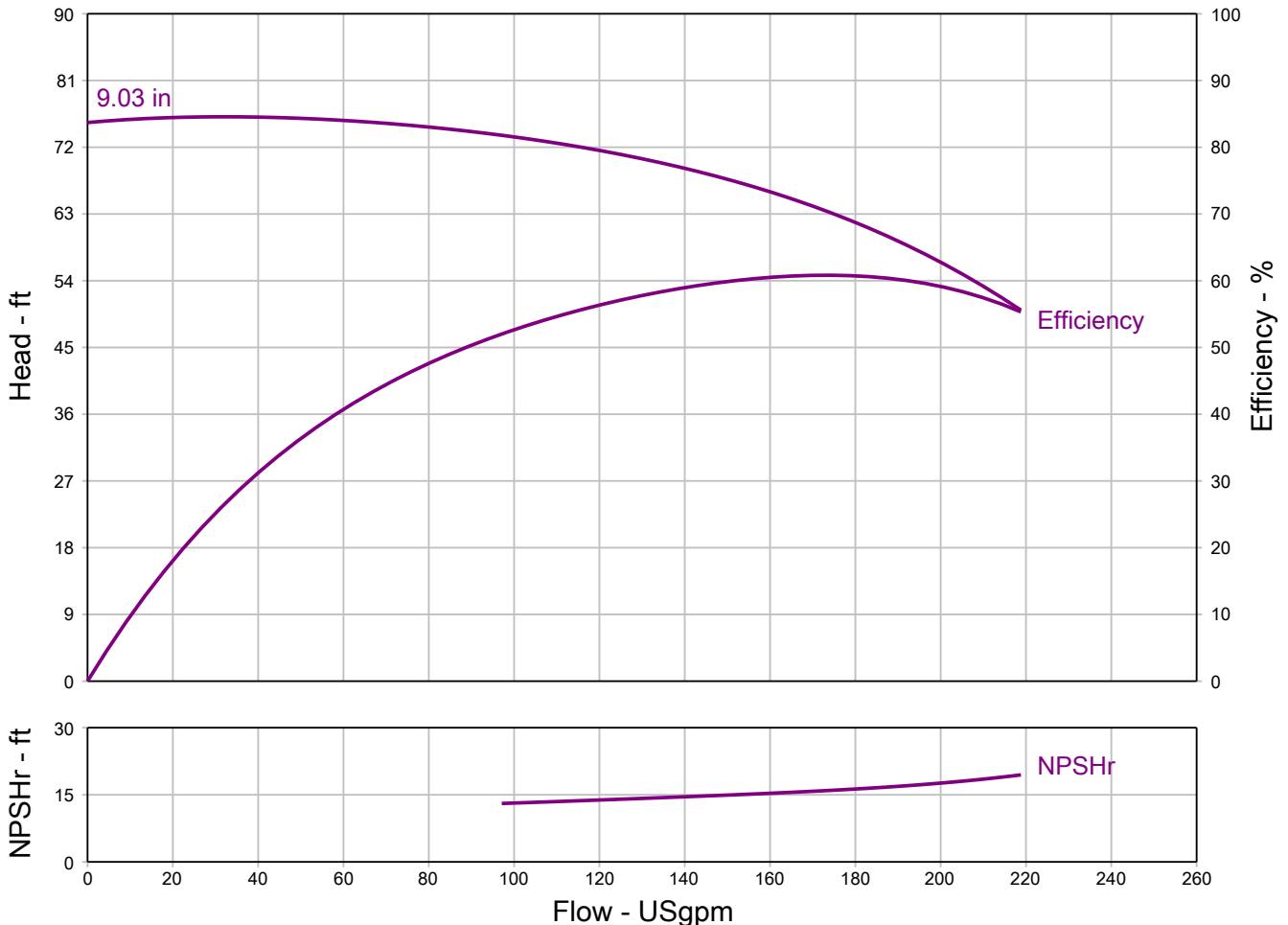
<b>QUOTE NUMBER / ID</b> 1471203	<b>UNIT TAG</b> 001	<b>QUANTITY</b> 1
<b>REPRESENTATIVE</b>	<b>SERVICE</b>	
<b>ENGINEER</b>	<b>SUBMITTED BY</b>	<b>DATE</b>
<b>CONTRACTOR</b>	<b>APPROVED BY</b>	<b>DATE</b>
	<b>ORDER #</b>	<b>DATE</b>



**VL 25121**  
**1760 rpm**

Part Number N/A

Conditions of Service		Pump Data		Motor Data	
Flow	173.2 USgpm	Impeller Diameter	9.03 in	Motor HP	5 HP
Head	63.39 ft	Max. Imp. Dia.	12.10 in	BHP	4.56 HP
Liquid	Cold Water	Min. Imp. Dia.	9.00 in	Enclosure	TEFC
Temperature	68.00 deg F	Efficiency	60.82 %	Voltage	230/460 V
NPSHr	15.93 ft	Suction	-1 in.	Phase	3 Phase
Viscosity	1.00 cP	Discharge	-1 in.	Cycle	60
Specific Gravity	1.000 SG	PEI (CL)	0.99	Frame Size	
		ER (CL)	1		



QUOTE NUMBER / ID 1471203

UNIT TAG 001

VL 25121

**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