

## Pump Performance Datasheet

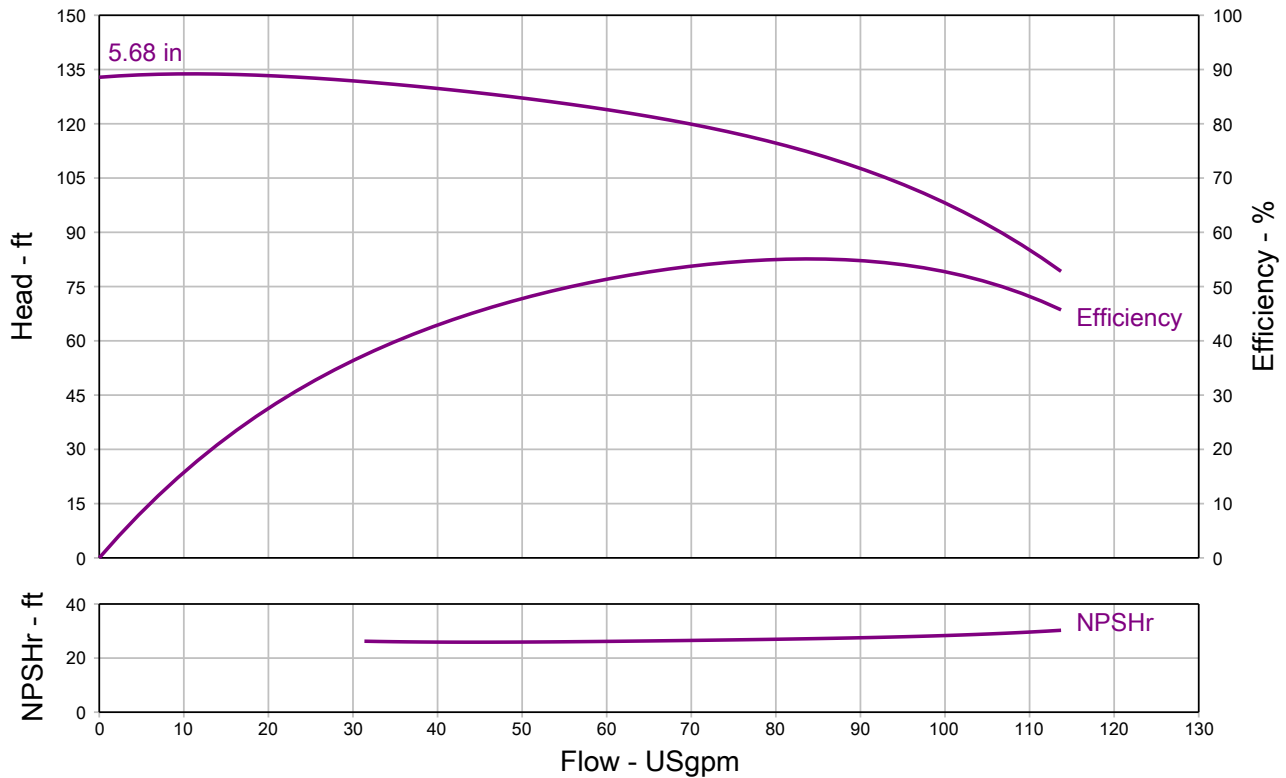
Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	12707 VL
Tag Number : 001	Stages :	1
Service :	Based on curve number :	VL_12707_2P Rev 0
Quantity : 1	Basic model number :	-
	Date last saved :	11/02/2023 6:04 PM

Operating Conditions		Liquid	
Flow, rated	: 83.81 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 112.1 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 112.7 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	: 3530 rpm	Material selected	: Cast iron - 125#
Impeller diameter, rated	: 5.68 in		
Impeller diameter, maximum	: 7.10 in		
Impeller diameter, minimum	: 4.50 in		
Efficiency	: 55.10 %		

Performance		Pressure Data	
NPSH required / margin required	: 27.15 / 0.00 ft	Maximum working pressure	: 57.90 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 14 / 56 Metric units	Maximum allowable working pressure	: 175.0 psi.g
MCSF	: 26.36 USgpm	Maximum allowable suction pressure	: 175.0 psi.g
Head, maximum, rated diameter	: 133.8 ft	Hydrostatic test pressure	: 263.0 psi.g
Head rise to shutoff	: 18.37 %		
Flow, best eff. point	: 83.86 USgpm		
Flow ratio, rated / BEP	: 99.94 %		
Diameter ratio (rated / max)	: 80.00 %		
Head ratio (rated dia / max dia)	: 54.28 %		
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)	: 0.87	Motor sizing specification	: Max power (non-overloading)
ER (CL)	: 13	Margin over specification	: 0.00 %
		Service factor	: 1.00
		Power, hydraulic	: 2.37 hp
		Rated power (based on duty point)	: 4.31 hp
		Max power (non-overloading)	: 4.98 hp
		Nameplate motor rating	: 5.00 hp / 3.73 kW



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

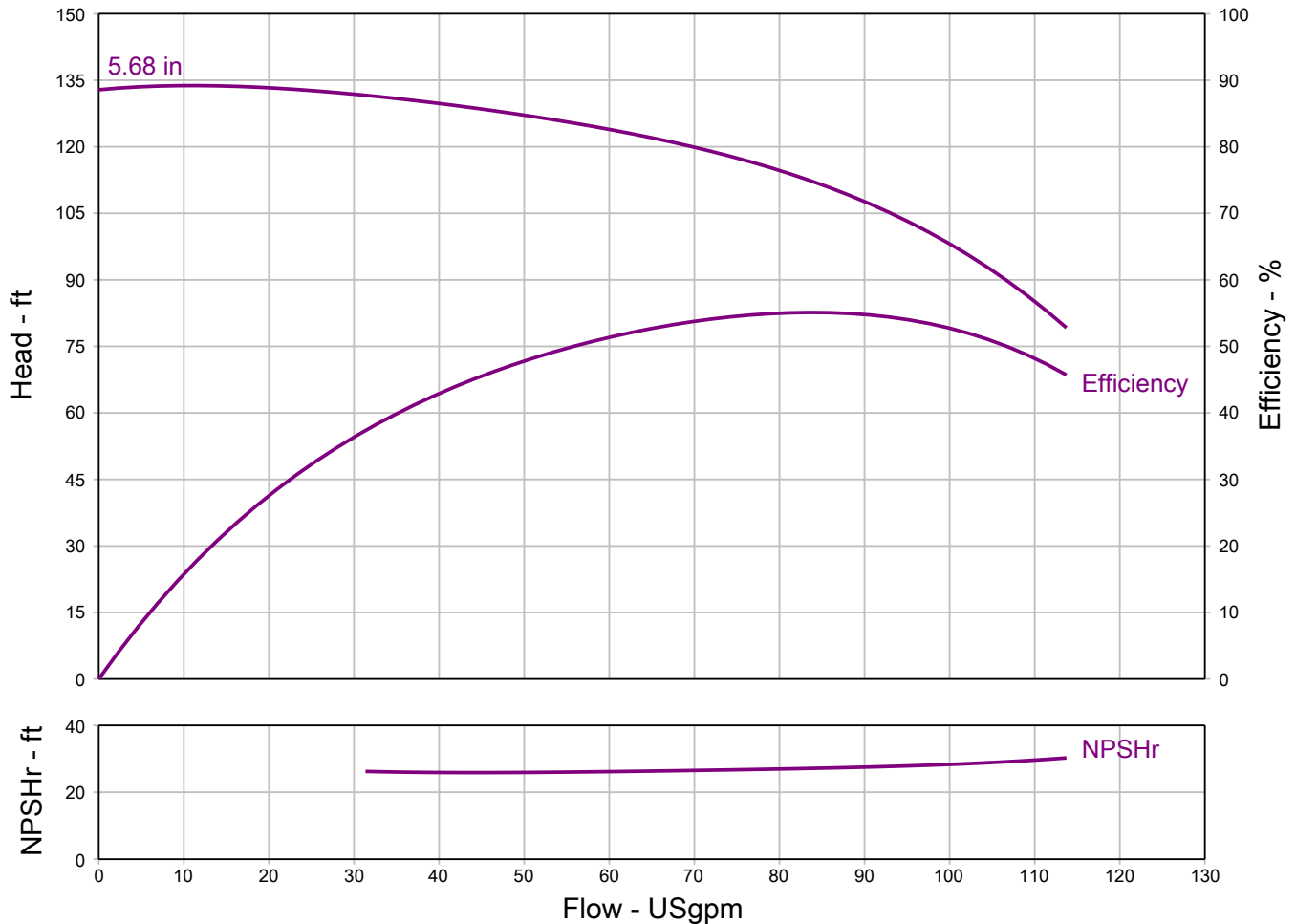
QUOTE NUMBER / ID 1471203	UNIT TAG 001	QUANTITY 1
REPRESENTATIVE	SERVICE	
ENGINEER	SUBMITTED BY	DATE
CONTRACTOR	APPROVED BY	DATE
	ORDER #	DATE



**VL 12707**  
**3530 rpm**

Part Number N/A

Conditions of Service		Pump Data		Motor Data	
Flow	83.81 USgpm	Impeller Diameter	5.67 in	Motor HP	5 HP
Head	112.1 ft	Max. Imp. Dia.	7.10 in	BHP	4.31 HP
Liquid	Cold Water	Min. Imp. Dia.	4.50 in	Enclosure	TEFC
Temperature	68.00 deg F	Efficiency	55.1 %	Voltage	230/460 V
NPSHr	27.15 ft	Suction	1.25 in.	Phase	3 Phase
Viscosity	1.00 cP	Discharge	1.25 in.	Cycle	60
Specific Gravity	1.000 SG	PEI (CL)	0.87	Frame Size	184JM
		ER (CL)	13		

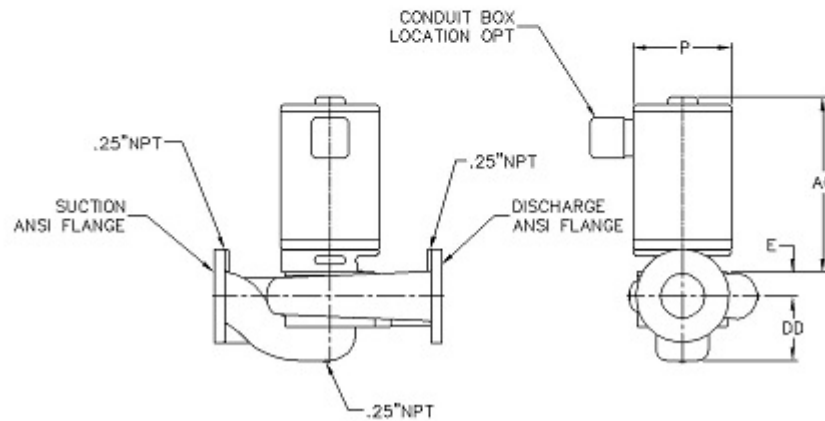


**Grundfos Series VL - In-Line Centrifugal Pump, Close Coupled**

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	AG (Max)	DC	DD	DE	E	P (Max)	X	YY	Weight
inches	184JM	1.25 X 1.25	20.00	4.19	4.13	4.38	1.63	10.00	7.00	7.00	TBD