

Pump Performance Datasheet

Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	15709 VL
Tag Number : 001	Stages :	1
Service :	Based on curve number :	VL_15709_2P Rev 0
Quantity : 1	Basic model number :	-
	Date last saved :	11/02/2023 6:18 PM

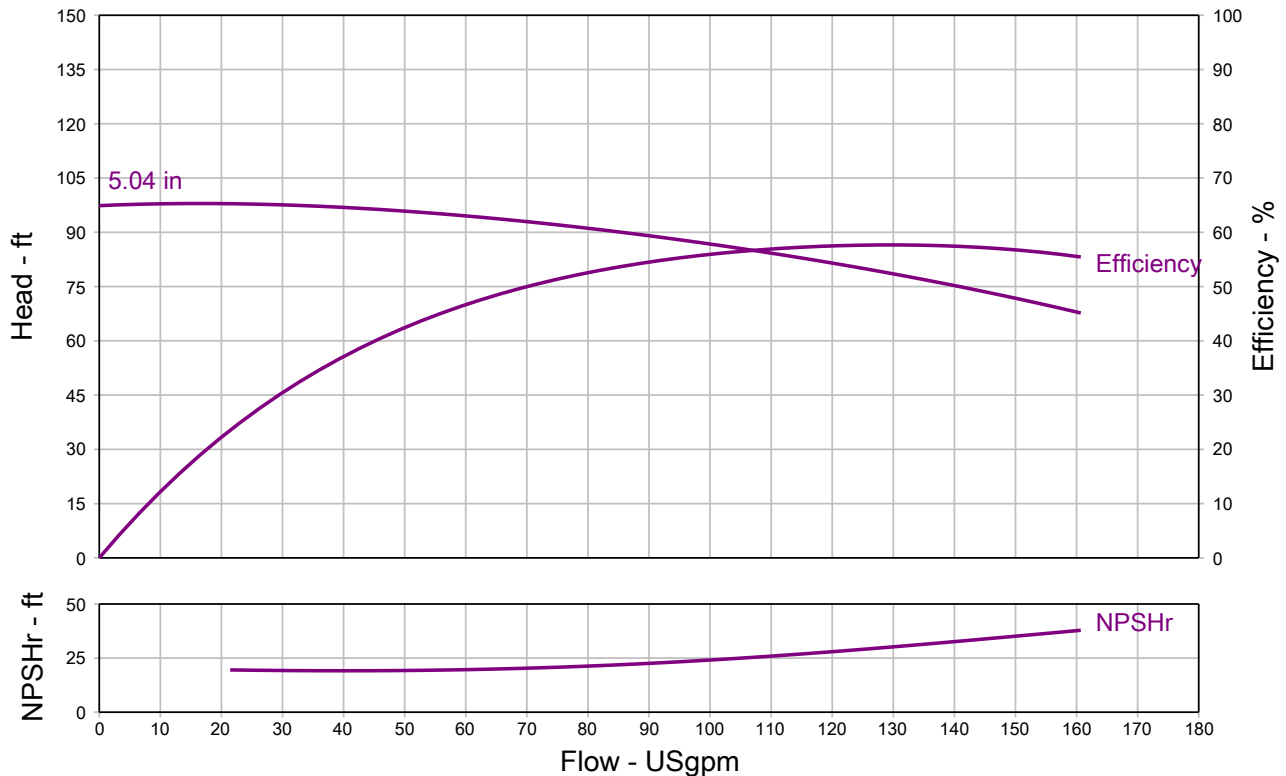
Operating Conditions		Liquid	
Flow, rated	: 129.5 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 78.52 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 78.99 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 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	: 3530 rpm	Material selected	: Cast iron - 125#
Impeller diameter, rated	: 5.04 in		
Impeller diameter, maximum	: 7.10 in		
Impeller diameter, minimum	: 4.00 in		

Performance		Pressure Data	
Efficiency	: 57.67 %	Maximum working pressure	: 42.39 psi.g
NPSH required / margin required	: 30.08 / 0.00 ft	Maximum allowable working pressure	: 175.0 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 18 / 55 Metric units	Maximum allowable suction pressure	: 175.0 psi.g
MCSF	: 46.00 USgpm	Hydrostatic test pressure	: 263.0 psi.g
Head, maximum, rated diameter	: 97.96 ft		
Head rise to shutoff	: 23.78 %		

Performance		Driver & Power Data (@Max density)	
Flow, best eff. point	: 129.6 USgpm	Motor sizing specification	: Max power (non-overloading)
Flow ratio, rated / BEP	: 99.95 %	Margin over specification	: 0.00 %
Diameter ratio (rated / max)	: 70.99 %	Service factor	: 1.00
Head ratio (rated dia / max dia)	: 38.61 %	Power, hydraulic	: 2.57 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)	: 4.46 hp
Selection status	: Acceptable	Max power (non-overloading)	: 4.95 hp
		Nameplate motor rating	: 5.00 hp / 3.73 kW

Energy Indexes	
PEI (CL)	: 0.94
ER (CL)	: 6



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

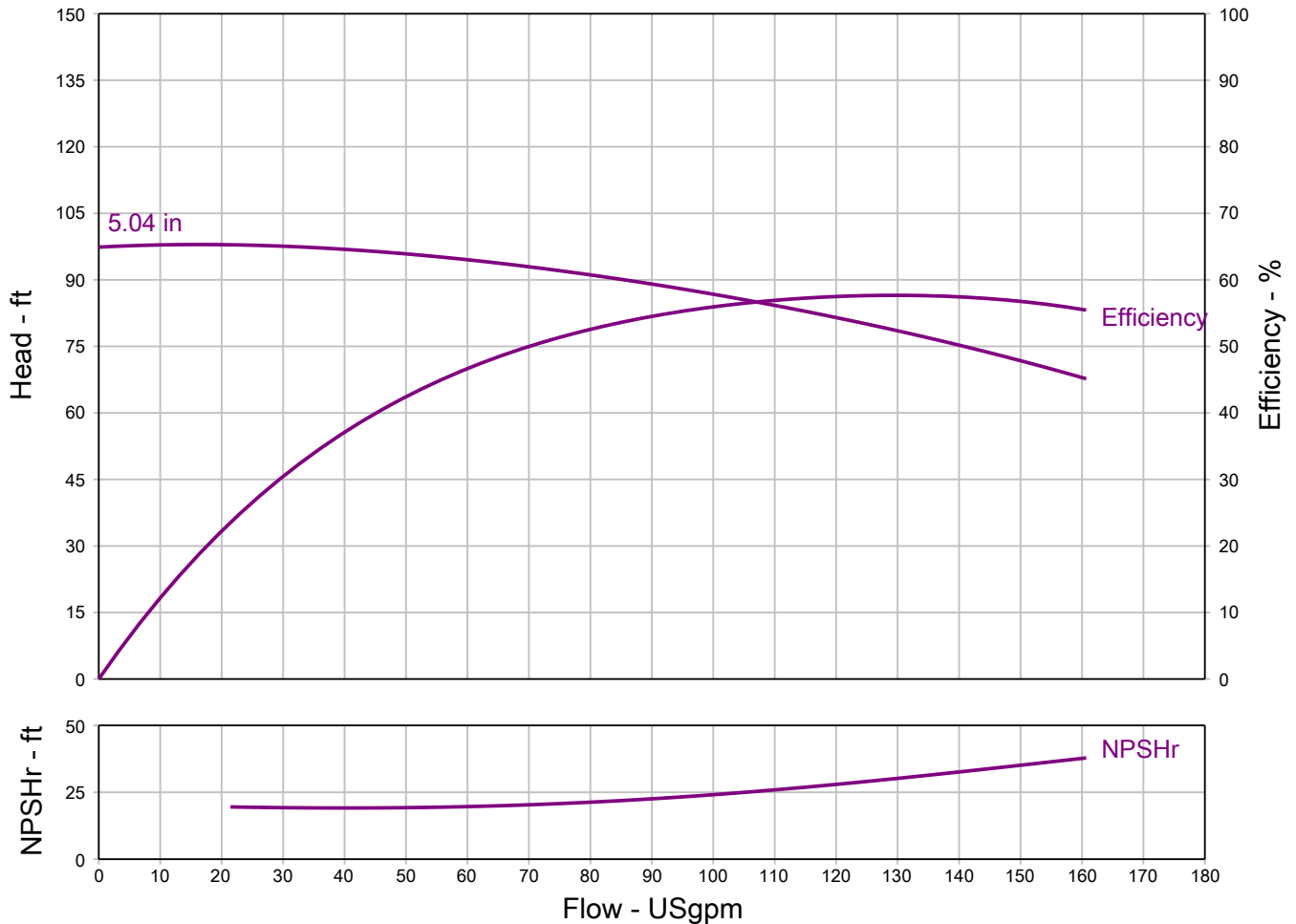
QUOTE NUMBER / ID 1471203	UNIT TAG 001	QUANTITY 1
REPRESENTATIVE	SERVICE	
ENGINEER	SUBMITTED BY	DATE
CONTRACTOR	APPROVED BY	DATE
	ORDER #	DATE



VL 15709
3530 rpm

Part Number N/A

Conditions of Service		Pump Data		Motor Data	
Flow	129.5 USgpm	Impeller Diameter	5.03 in	Motor HP	5 HP
Head	78.52 ft	Max. Imp. Dia.	7.10 in	BHP	4.46 HP
Liquid	Cold Water	Min. Imp. Dia.	4.00 in	Enclosure	TEFC
Temperature	68.00 deg F	Efficiency	57.67 %	Voltage	230/460 V
NPSHr	30.08 ft	Suction	1.5 in.	Phase	3 Phase
Viscosity	1.00 cP	Discharge	1.5 in.	Cycle	60
Specific Gravity	1.000 SG	PEI (CL)	0.94	Frame Size	184JM
		ER (CL)	6		

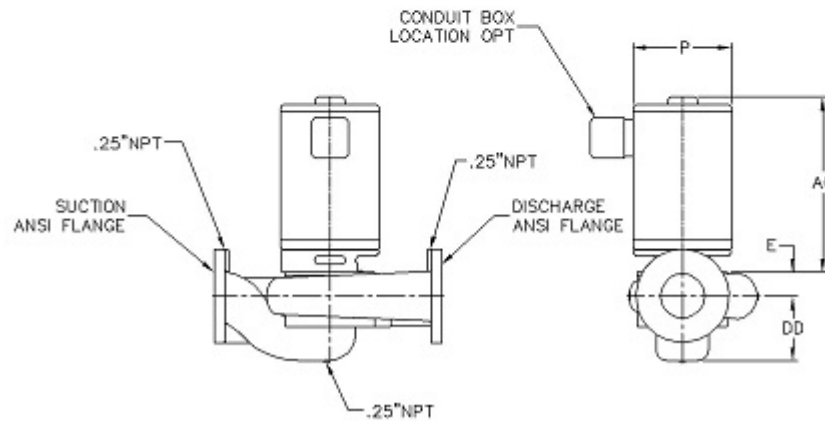


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Do not install pump larger than 215JM in vertical piping.

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	1.5 X 1.5	20.00	4.38	4.43	5.13	2.19	10.00	7.00	7.00	TBD