

## Pump Performance Datasheet

|                      |                         |                       |
|----------------------|-------------------------|-----------------------|
| Customer :           | Quote Number / ID :     | 1471203               |
| Customer ref. / PO : | Model :                 | 60957 VL              |
| Tag Number : 001     | Stages :                | 1                     |
| Service :            | Based on curve number : | VL_60957_4P Rev Aug21 |
| Quantity : 1         | Basic model number :    | -                     |
|                      | Date last saved :       | 11/07/2023 5:13 PM    |

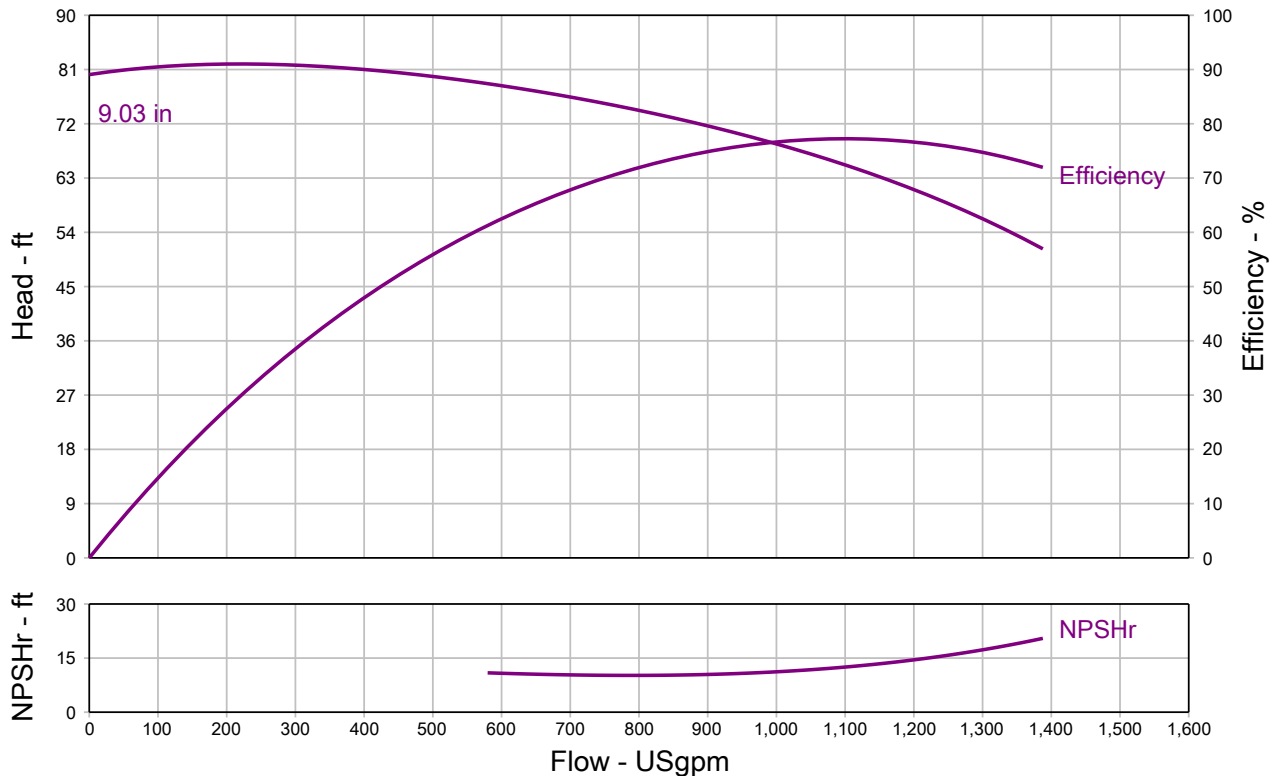
| Operating Conditions                            |                     | Liquid                          |                    |
|---|---------------------|---------------------------------|--------------------|
| Flow, rated                                     | : 1,100.1 USgpm     | Liquid type                     | : Cold Water       |
| Differential head / pressure, rated (requested) | : 65.17 ft          | Additional liquid description   | :                  |
| Differential head / pressure, rated (actual)    | : 65.17 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               | : 1780 rpm | Material selected | : Cast iron - 125# |
| Impeller diameter, rated   | : 9.03 in  |                   |                    |
| Impeller diameter, maximum | : 9.60 in  |                   |                    |
| Impeller diameter, minimum | : 7.00 in  |                   |                    |

| Performance                            |                         | Pressure Data                      |               |
|--|-------------------------|------------------------------------|---------------|
| Efficiency                             | : 77.25 %               | Maximum working pressure           | : 35.45 psi.g |
| NPSH required / margin required        | : 12.51 / 0.00 ft       | Maximum allowable working pressure | : 175.0 psi.g |
| nq (imp. eye flow) / S (imp. eye flow) | : 45 / 167 Metric units | Maximum allowable suction pressure | : 175.0 psi.g |
| MCSF                                   | : 327.6 USgpm           | Hydrostatic test pressure          | : 263.0 psi.g |
| Head, maximum, rated diameter          | : 81.92 ft              |                                    |               |
| Head rise to shutoff                   | : 22.99 %               |                                    |               |

| Performance                      |                             | Driver & Power Data (@Max density) |                               |
|----------------------------------|-----------------------------|------------------------------------|-------------------------------|
| Flow, best eff. point            | : 1,100.1 USgpm             | Motor sizing specification         | : Max power (non-overloading) |
| Flow ratio, rated / BEP          | : 100.00 %                  | Margin over specification          | : 0.00 %                      |
| Diameter ratio (rated / max)     | : 94.06 %                   | Service factor                     | : 1.00                        |
| Head ratio (rated dia / max dia) | : 81.81 %                   | Power, hydraulic                   | : 18.10 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)  | : 23.43 hp                    |
| Selection status                 | : Acceptable                | Max power (non-overloading)        | : 24.95 hp                    |
|                                  |                             | Nameplate motor rating             | : 25.00 hp / 18.64 kW         |

| Energy Indexes |        |
|----------------|--------|
| PEI (CL)       | : 0.98 |
| ER (CL)        | : 2    |



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

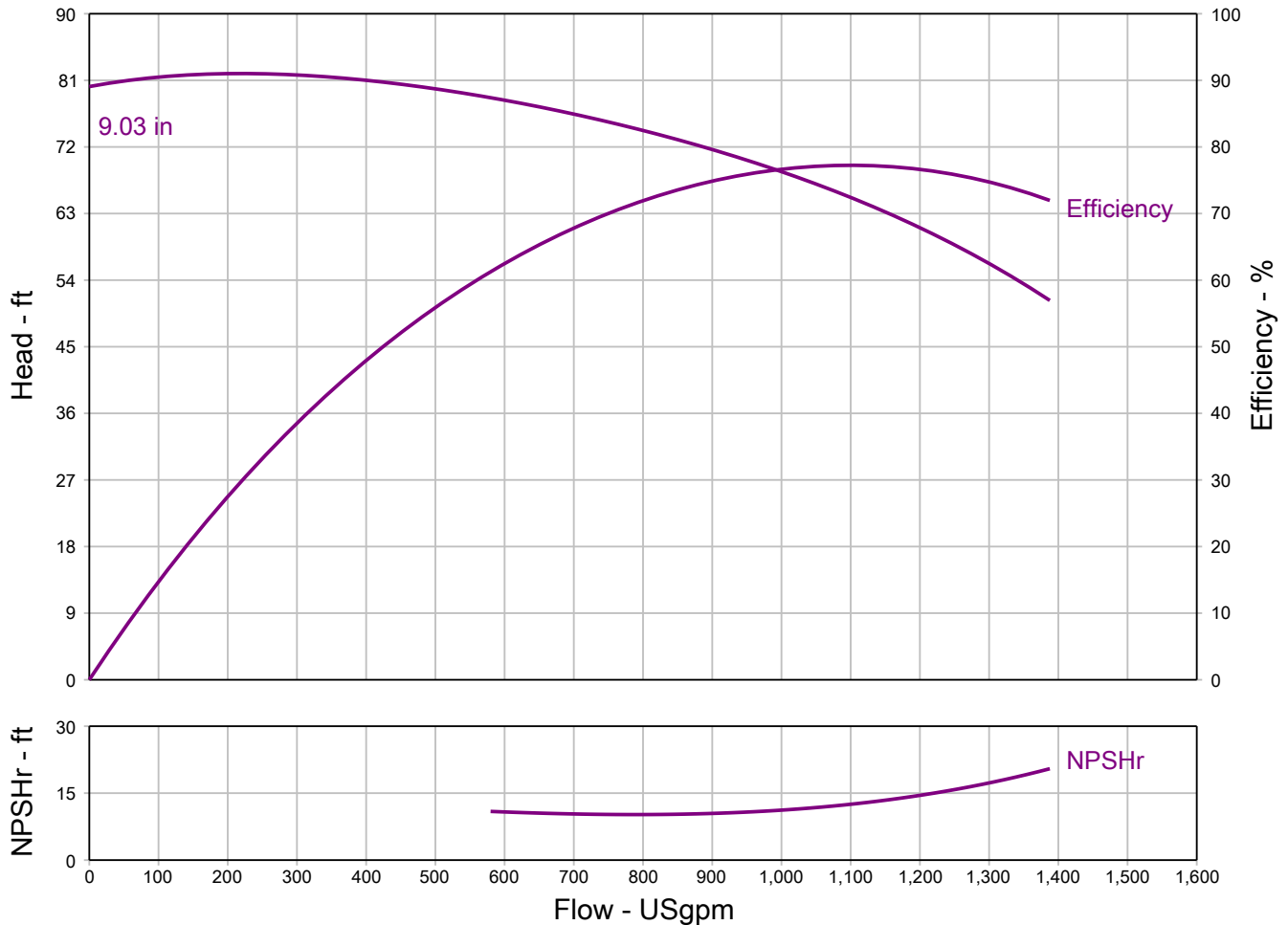
|                           |              |            |
|---------------------------|--------------|------------|
| QUOTE NUMBER / ID 1471203 | UNIT TAG 001 | QUANTITY 1 |
| REPRESENTATIVE            | SERVICE      |            |
| ENGINEER                  | SUBMITTED BY | DATE       |
| CONTRACTOR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



**VL 60957**  
**1780 rpm**

Part Number N/A

| Conditions of Service |               | Pump Data         |         | Motor Data |           |
|-----------------------|---------------|-------------------|---------|------------|-----------|
| Flow                  | 1,100.1 USgpm | Impeller Diameter | 9.03 in | Motor HP   | 25 HP     |
| Head                  | 65.17 ft      | Max. Imp. Dia.    | 9.60 in | BHP        | 23.43 HP  |
| Liquid                | Cold Water    | Min. Imp. Dia.    | 7.00 in | Enclosure  | TEFC      |
| Temperature           | 68.00 deg F   | Efficiency        | 77.25 % | Voltage    | 230/460 V |
| NPSHr                 | 12.51 ft      | Suction           | 6 in.   | Phase      | 3 Phase   |
| Viscosity             | 1.00 cP       | Discharge         | 6 in.   | Cycle      | 60        |
| Specific Gravity      | 1.000 SG      | PEI (CL)          | 0.98    | Frame Size | 284JM     |
|                       |               | ER (CL)           | 2       |            |           |

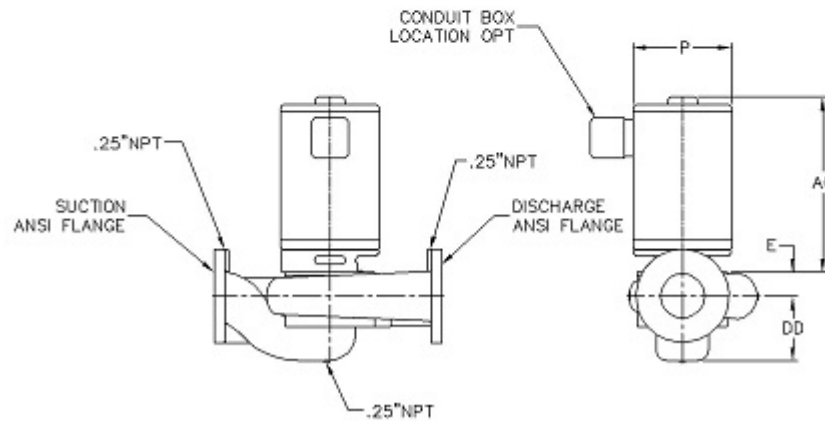


**Grundfos Series VL - In-Line Centrifugal Pump, Close Coupled**

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 | 284JM | 6 X 6 | 26.00    | 7.00 | 8.75 | 10.12 | 2.75 | 15.00   | 15.00 | 15.50 | TBD    |