

## Hydraulic Institute's Test Standard for Rotodynamic Pumps

The Hydraulic Institute's new test standard, ANSI/HI 14.6, provides the pump community with a globally accepted standard for testing rotodynamic pumps, of the centrifugal, mixed flow, and axial types. It supersedes two test standards: ANSI/HI 1.6, for Centrifugal Pumps and ANSI/HI 2.6 for Vertical Pumps. The new standard features significant changes in test acceptance requirements and in educational content and contains "must-know" requirements for anyone involved with hydrostatic or performance testing of pumps.

With the addition of ANSI/HI 14.6, two significant standards now have identical pump acceptance test criteria with worldwide acceptance. The other standard is: ANSI/HI 11.6 *Rotodynamic Submersible Pumps for Hydraulic Performance, Hydrostatic Pressure, Mechanical, and Electrical Acceptance Tests*.

The previous versions, ANSI/HI 1.6 and ANSI/HI 2.6, served as the standards for centrifugal pumps for over a decade defining testing requirements. ANSI/HI 14.6 has similar test methods and procedures, but with noticeably different changes to test acceptance requirements and informational details. The updated standard is also formatted and organized in a way that provides the pump community with quick and easy access to information regarding rotodynamic pumps, terms and definitions, multiple acceptance tests, various testing procedures, and an array of useful information regarding pump characteristics, performance, and guidelines.

ANSI/HI 14.6 is meant to be used for acceptance testing at pump test facilities or laboratories only and cannot be used in its entirety for testing done in the field. This standard applies to the pump itself, (flange-to-flange relationship), without any fittings. However, additional information regarding pump testing with fittings and other equipment can be found in various appendices of the standard. If contractually agreed upon by the manufacturer/supplier and the purchaser, the pump may also be tested with a combination of fittings.

The differences between the previous versions of the test standard (ANSI/HI 1.6 and ANSI/HI 2.6) and new (ANSI/HI 14.6) standard are significant enough to warrant the attention of the pump community.

### New terms

<u>Normative:</u>	"What is written in the standard must be adhered to in order to comply with the standard." (ANSI/HI 14.6, p. vii)
<u>Informative:</u>	"Written to inform and educate the user and do not require compliance." (ANSI/HI 14.6, p. vii)
<u>Guarantee point:</u>	"The specified and contractually agreed on rated point (duty point)." (ANSI/HI 14.6, p. 10)
<u>NPSH3:</u>	"Unless otherwise specified, a 3% drop in head (the accepted industry practice) will be used to determine NPSHR and defined as NPSH3." (ANSI/HI 14.6, p. 19)

These terms appear throughout the body of the standard as well as in the appendices. The terms make it clear to the pump community which processes and procedures are necessary in order to adhere to the standard and which ones may be recommended for further consideration. In the case of NPSH3, this term allows the pump community to know exactly what percentage of a drop in head is used to determine the NPSHR (required), removing any ambiguity with that value. As a result, NPSH3 will be used instead of NPSHR.

*Continued on page 0.2*

Continued from page 0.1

## General sections

Throughout ANSI/HI 14.6, the pump community will find sections labeled “General” for pump acceptance tests, measurement uncertainty, test procedures, test arrangements, hydrostatic pressure testing, recommended tests, NPSH test requirements, measurement of pump power input, and special test methods. These sections provide an introduction and background information in advance of the substance and specific procedures of the topics. This added feature helps the document flow from section to section and highlights the importance of the respective topics.

## Performance test acceptance grades and tolerances

Pump performance acceptance grades for flow, head, efficiency, and power are used in ANSI/HI 14.6 when evaluating acceptance of a pump for a guarantee point. Note that either power or efficiency can be specified, but not both. The previous versions of the standard used two grades of accuracy for pump acceptance criteria, while ANSI/HI 14.6 uses three. The following table is an addition to the new standard, and is used to refer to acceptance grades and tolerance bands.

Table 14.6.3.4 – Pump test acceptance grades and corresponding tolerance band

Test parameter	Guarantee requirement	Grade	Grade 1			Grade 2		Grade 3
		$\Delta t_Q$	10%			16%		18%
		$\Delta t_H$	6%			10%		14%
		Symbol	Acceptance grade					
			1B	1E	1U	2B	2U	3B
Rate of flow	Mandatory	$\Delta t_Q$ (%)	± 5%	± 5%	0% to + 10%	± 8%	0% to + 16%	± 9%
Total head	Mandatory	$\Delta t_H$ (%)	± 3%	± 3%	0% to + 6%	± 5%	0% to + 10%	± 7%
Power <sup>a</sup>	Optional (either/or)	$\Delta t_P$ (%)	+ 4%	+ 4%	+ 10%	+ 8%	+ 16 %	+ 9%
Efficiency <sup>a</sup>		$\Delta t_\eta$ (%)	- 3%	- 0%	- 0%	- 5%	- 5%	- 7%

<sup>a</sup> The power and efficiency tolerances are not the result of an exact calculation using the maximum values of a related column. They are instead reflecting real life experience. For Grade 1E and 1U, no negative tolerance on efficiency is allowed.

NOTE: All tolerances are percentages of values guaranteed.

Other specified duty points, including their tolerances, shall be per separate agreement between the supplier and buyer. If other specified duty points are agreed on, but no tolerance is given for these points, then the default acceptance grade for these points shall be Grade 3B.

Six pump performance test acceptance grades are used: 1B, 1E, 1U, 2B, 2U, and 3B. Grade 1 is the most stringent grade, the “U” specifies having a unilateral tolerance band, and the “B” specifies having a bilateral tolerance band. Acceptance grade 1E can be used when energy efficiency is of importance, and is also bilateral.

It is left up to the purchaser and manufacturer to agree on a specific grade to use and judge if a particular pump will meet a guarantee point. If no acceptance grade is specified, the standard reverts to the default test acceptance grade shown in the table that follows.

Continued on page 0.3

Continued from page 0.2

**Table 14.6.4 — Default acceptance grade based on purchaser's Intended service**

Application		Rated shaft power of pump	
		> 10 to 100 kW (13 to 134 hp)	> 100 kW (134 hp)
Municipal water and wastewater		2B	1B
Building trades and HVAC		2B	1B
Electric power industry		1B	1B
Oil and gas industry	API pumps	1B	1B
	Pipeline	1B	1B
	Water injection	Not applicable	1B
Chemical industry		2B	2B
Cooling tower		2B	2B
Pulp and paper		2B	2B
Slurry		3B	3B
General industry		3B	2B
Dewatering, drainage, and irrigation		3B	2B
Pumps not listed above		3B	2B

NOTE: This table only applies to situations where the purchaser and manufacturer have agreed to a guarantee point, but no test acceptance grade has been specified.

Other specified duty points, including their tolerances, shall be per separate agreement between the manufacturer and purchaser. If other specified duty points are agreed on, but no tolerance is given for these points, then the default acceptance grade for these points shall be grade 3B.

## Evaluation of flow, head, power, and efficiency

Guarantee point evaluation shall be performed at the rated speed. In order to determine whether a pump meets the acceptance criteria, a plot of pump total head versus flow is produced and measured against the corresponding tolerance bands for the specified acceptance grade. The guarantee point for acceptance is defined as flow and head for one set of conditions. In a similar fashion, the efficiency and power plot versus rate of flow are produced and measured against the tolerance bands for the specified acceptance grade.

This new standard explains how to use tolerance bands to determine if the pump meets the acceptance criteria. It is important to also note that agreements should be reached between the buyer and seller as to the amount of uncertainty that will be allowed for acceptance.

Depending on the acceptance grade, the tolerance bands can either be unilateral or bilateral, with those tolerance lines forming a cross. As long as the pump head capacity curve passes through at least one of the arms of the cross, pump performance is acceptable.

In the case of a unilateral tolerance band, there will only be two hash marks labeling the limits of the length of two arms for the capacity curve to pass through, not allowing any negative tolerances. With a bilateral tolerance band, there will be four arms for the capacity curve to pass through, allowing for both positive and negative tolerances.

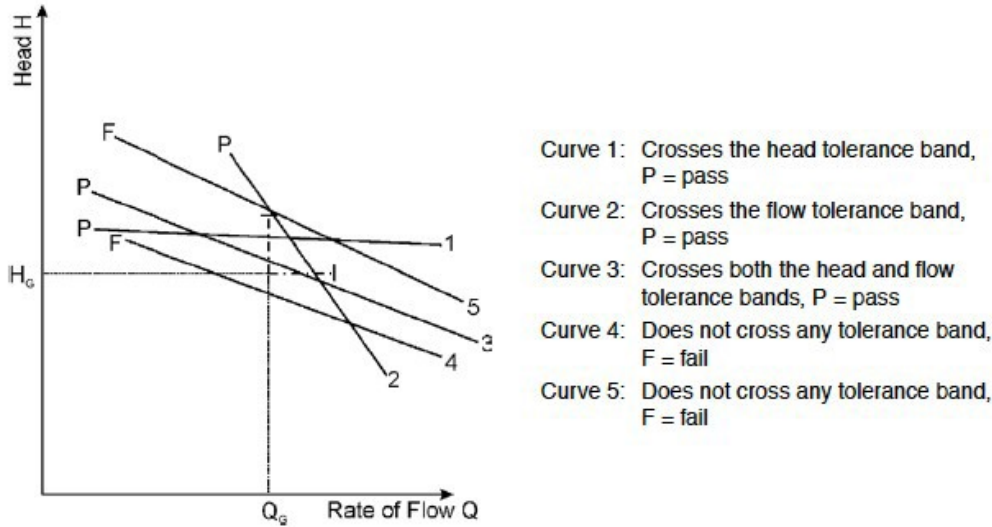
The hash marks on the horizontal head line represent the limits of flow tolerance, while the hash marks on the vertical flow line represent the limits of head tolerance. For the curve to successfully meet the

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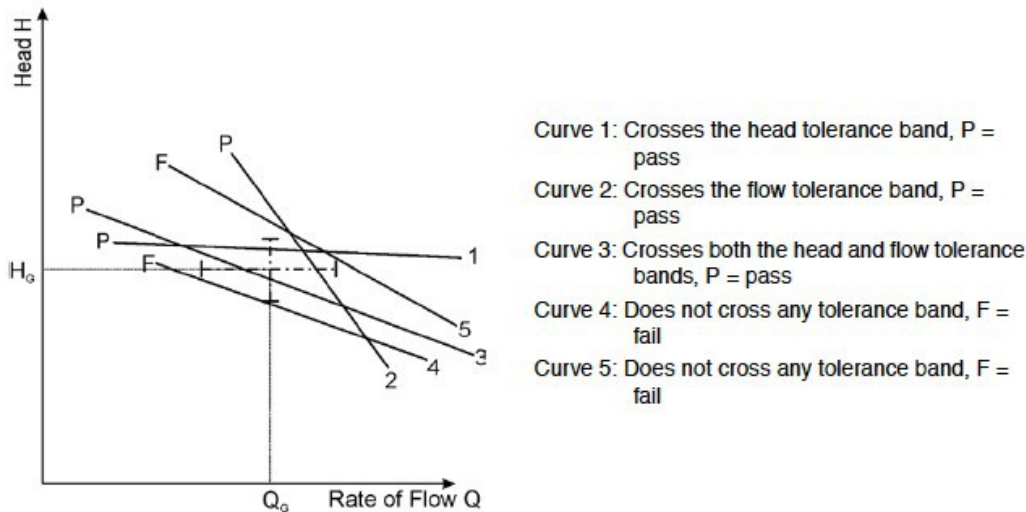
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acceptance criteria, it must pass through the line and not the hash mark. Examples of both unilateral and bilateral acceptance are shown below.



**Figure 14.6.3.4.2a – Unilateral tolerance acceptance**



**Figure 14.6.3.4.2b – Bilateral tolerance acceptance**

## Small pumps

This new standard addresses acceptance criteria for “small” pumps with a shaft power input up to 10 kW (13.4 hp) but larger than 1 kW (1.3 hp). Characteristics of these pumps include a low horsepower, small impeller diameter, and smaller size dimensions. As a result of these characteristics, a wider efficiency tolerance is permitted than what is specified in Table 14.6.3.4, because those tolerances may be too stringent.

Continued on page 0.5

Subject to change without notice

Continued from page 0.4

Due to the characteristics of these small pumps, they are much more sensitive to normal manufacturing variations and mechanical losses can vary, comprising a large portion of the power used to drive the pump. In addition, during testing, additional measured quantities are often small and more difficult to measure. These factors have influenced the new adoption of the following tolerance bands for pumps with an input power of 10 kW (13.4 hp) and below:

$$\begin{array}{ll} \text{rate of flow} & t_Q = \pm 10\% \\ \text{pump total head} & t_H = \pm 8\% \end{array}$$

The manufacturer and the purchaser should agree on a set of tolerance factors to be used when testing smaller pumps. If the pump to be tested has an input power of 1 kW (1.3 hp) or less, special agreements between the manufacturer and purchaser on the acceptable tolerance factors should be made.

### Recommended tests

Another addition to the new standard is a section describing recommended tests to be performed on the specified pump other than acceptance tests based on pump flow and head delivered. This section is located in Appendix D of the standard and includes information on various test types based on the type of pump to be tested.

The types of tests include: performance, hydrostatic, NPSH, and mechanical. The following table is provided in Appendix D to guide the pump community when determining additional testing for the pump:

**Table D.1 — Matrix of recommended tests**

	Recommended Test Specification Matrix					
	Service	Test Type	Performance	Hydrostatic	NPSH	Mechanical
Standard Pumps	Up to 50 kW (67 hp)		NO	NO	NO	NO
	Greater than 50 kW (67 hp)		YES	NO	NO	NO
Additional Considerations	New/Unique Design		YES	YES	NO	YES
	Critical Service or Application		YES	YES	NO	YES
	NPSH Critical		YES	NO	YES	NO

**Definitions:**

**Standard pumps** - Pumps that have previously been manufactured and have a history of consistently demonstrated compliance with HI test standards.

**New/unique design** - Pumps of a new size, or with new design features.

**Critical service or application** - As defined by customer.

### String test

An important addition to the standard is Appendix G, *String Test*, which covers performance testing of the entire pumping system, including the motor, pump, and drive (e.g., gearbox, belt drive, etc.). This is a less accurate method of determining the true pump efficiency, since the input power to the pump shaft is calculated by taking into account the published motor and drive efficiencies. Since these efficiencies are

Continued on page 0.6

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**PROCESS PUMPS SINGLE  
 STAGE END SUCTION ANSI  
 Series 8196**



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not known precisely, this method of calculating pump input power is less accurate than when the shaft torque and rpm are directly measured.

When a VFD is used as part of the string, it becomes very difficult to obtain an accurate value of input power to the pump shaft. Although many VFDs provide a measurement of output power, the value of this power is only approximate and is generally not accurate enough for acceptance testing. This reading also does not account for the reduction in motor efficiency when operated on VFD power. The following table can be used to compare various influencing factors for calculating pump efficiency for different string test configurations:

**Table G.1 – Influencing factors for calculating pump efficiency for different configurations**

Configuration	Drive	Power Measurement	RPM Measurement	Influencing Factors	Pump Efficiency Accuracy
Pump only	Mechanical	Torque transducer	Tachometer	None	Highest
Pump and motor, direct connected	Line power	Wattmeter	Tachometer	(1) Motor efficiency	
Pump and motor, belt or gear driven	Line power	Wattmeter	Tachometer	(1) Motor efficiency (2) Transmission efficiency	
Pump and submersible motor	Line power	Wattmeter	From motor or vibration data	(1) Motor efficiency (2) Seal power consumption (3) Cooling system power consumption	
Pump and motor, direct connected	Motor + VFD	Wattmeter input to VFD	Tachometer	(1) Motor efficiency (2) VFD efficiency (3) Motor efficiency correction for VFD power	
Pump and motor, belt or gear driven	Motor + VFD	Wattmeter input to VFD	Tachometer	(1) Motor efficiency (2) Mechanical drive efficiency (3) VFD efficiency (4) Motor efficiency correction for VFD power	
Pump and submersible motor	Motor + VFD	Wattmeter input to VFD	From motor or vibration data	(1) Motor efficiency (2) Seal power consumption (3) Cooling system power consumption (4) VFD efficiency (5) Motor efficiency correction for VFD power	

**Hydrostatic pressure testing**

The hydrostatic test pressure and test duration have been updated in the new test standard. The test pressure relates to the rated pressure at the ambient temperature of the item to be tested and is determined by the following:

*Continued on page 0.7*

*Subject to change without notice*

Continued from page 0.6

$$p_{\text{test}} = K_1 \times K_2 \times p_{\text{rated}}$$

Where:

$p_{\text{test}}$  = the hydrostatic test pressure

$p_{\text{rated}}$  = the rated pressure at operating temperature

$K_1$  = a factor whose value shall be determined by the pump specification, but shall not be less than 1.3, except for thermoset parts

$K_2$  = a factor whose value shall be determined by the material strength, as follows  
=  $\frac{\text{allowable stress at ambient temperature}}{\text{allowable stress at operating temperature}}$

The test duration is determined by the rated pressure level, with greater time required for those parts subjected to higher pressure.

## **Benefits of adopting ANSI/HI Standard 14.6 – Rotodynamic Pumps for Hydraulic Performance Acceptance Tests**

The Hydraulic Institute is known among the global pump community and OEM community for standards address definitions, nomenclature, pump applications, installation, operation, as well as important test procedures for a variety of different pump types. As these standards evolve over time, it is in the best interests of those within the pump industry to consider how these standards impact the bottom line of their business...and to stay current with the latest HI standards.

The information provided in ANSI/HI standards help eliminate costly mistakes in pumping system projects, enhance project efficiency, and provides detailed trouble shooting guidance and many other benefits. Keeping in touch with the most recent versions of these standards is necessary for pump users, engineering consulting firms, pump OEMs, pump distributors, and suppliers to the pump industry.

## **Additional resources provided by the Hydraulic Institute**

For a complete analysis of the new standard, visit [www.Pumps.org](http://www.Pumps.org) and search for ANSI/HI 14.6-2011 *Rotodynamic Pumps* under the *Products > Standards and Guidelines* section to obtain your copy of the standard.

In order to gain an understanding of the differences between ANSI/HI 14.6 and ANSI/HI 1.6 and 2.6, view a recorded 1-hour webinar titled *What's changing in Rotodynamic Pump Acceptance Tests in North America?*, by visiting: [www.PumpSystemsMatter.org](http://www.PumpSystemsMatter.org). A webinar on this subject will be held on December 18, at 1pm EST.

This webinar provides complimentary information on the significant differences between the previous versions and the new ANSI/HI 14.6 standard. From this Web site you can also access various E-Learning Courses, view Featured PSM Trainings, and access other informational and educational tools regarding pumps, pump systems, and pump standards. Upcoming webinars, delivered by leading industry experts, is also listed on [www.PumpSystemsMatter.org](http://www.PumpSystemsMatter.org). Participants in HI/PSM technical webinars are eligible to Professional Development Hour (PDH) credit.

Continued on page 0.8

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SECTION 8140  
Page 0.8  
March 6, 2017

**PROCESS PUMPS SINGLE  
STAGE END SUCTION ANSI  
Series 8196**



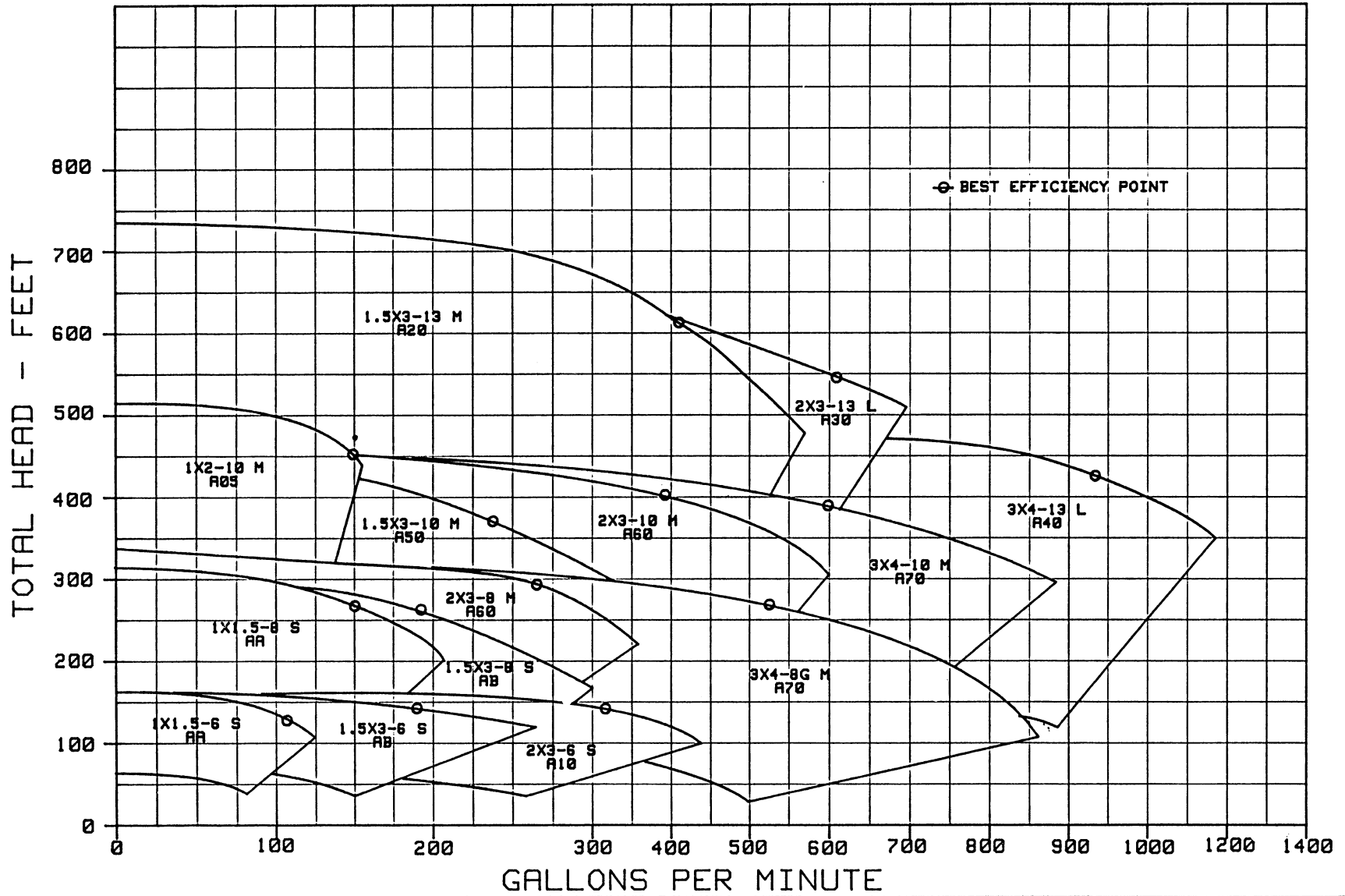
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The Hydraulic Institute offers an extensive body of pump industry knowledge in its standards and guidelines, and Pump Systems Matter offers excellent training resources. To learn more about HI membership download the new "HI App" in the Apple App Store or Google Play Store. Search on "Hydraulic Institute" to download this useful tool to any Apple or Android tablet device.



# PEERLESS PROCESS PUMPS

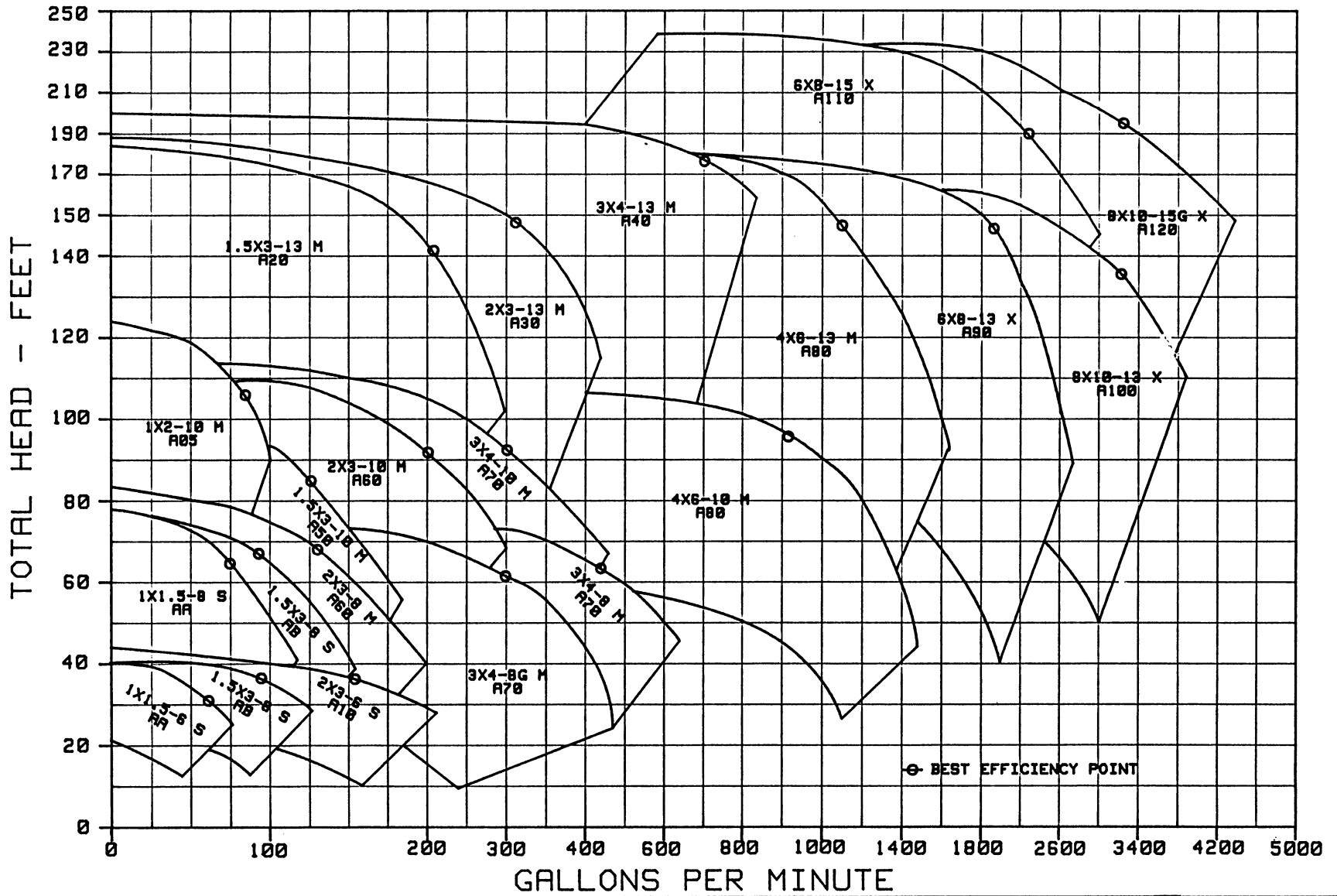
MODEL: 8196 @ 3550 RPM



8196-5

# PEERLESS PROCESS PUMPS

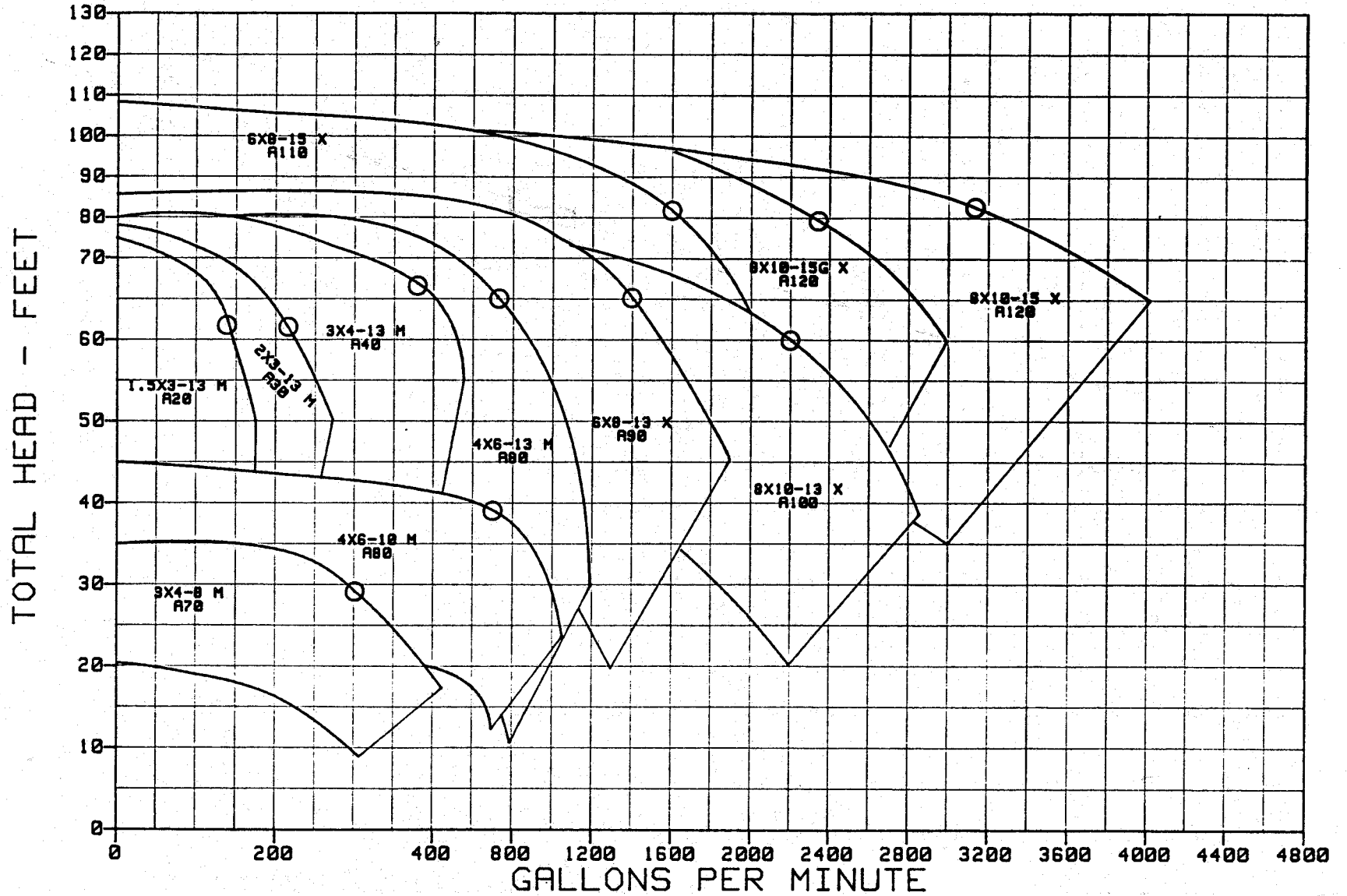
MODEL: 8196 @ 1750 RPM



8196-6

# PEERLESS PROCESS PUMPS

MODEL: 8196 @ 1150 RPM



8196-6.1



Peerless Pump Company, LLC  
 Indianapolis, Indiana 46207-7026

Customer :

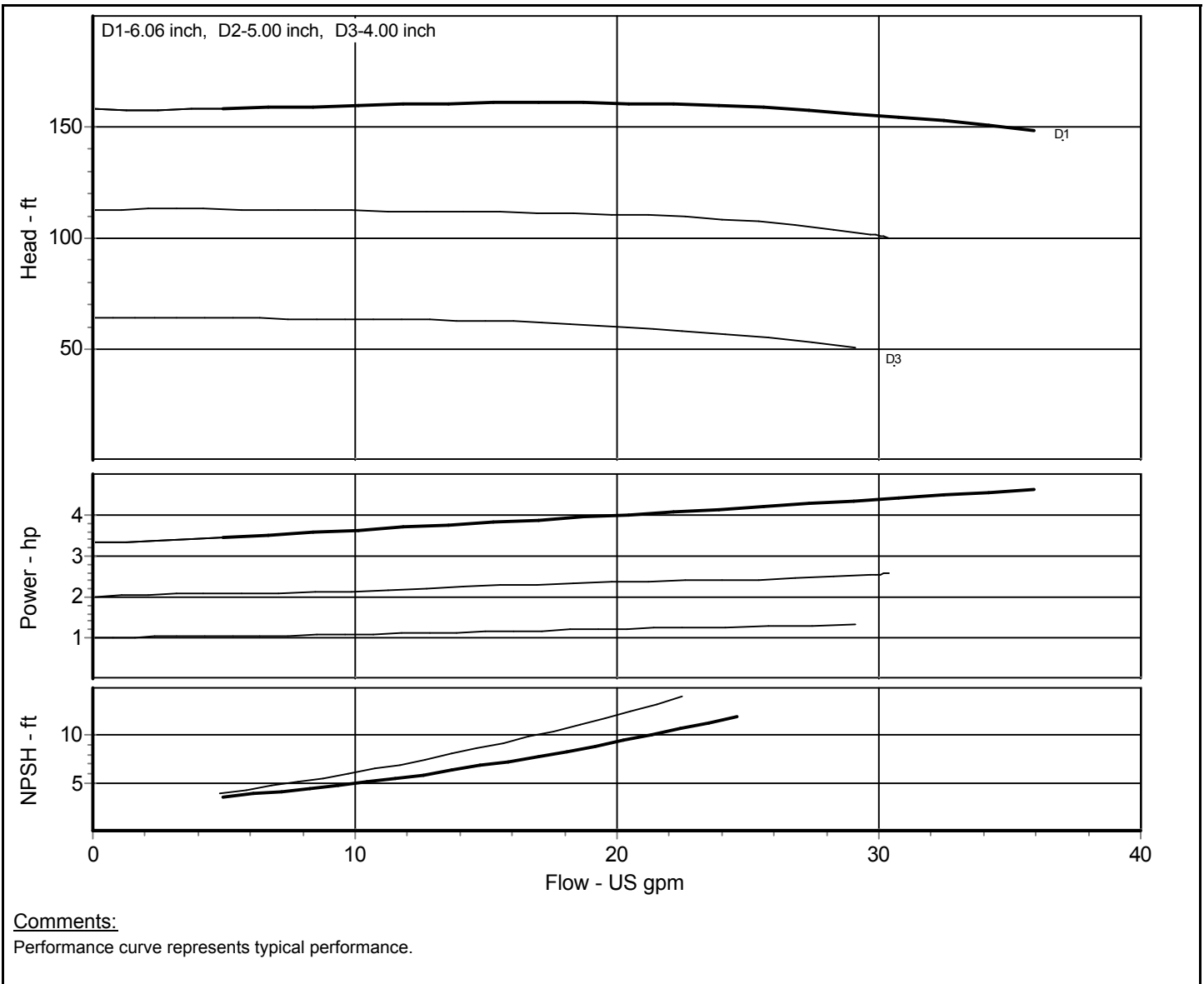
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Pump Model:	<b>Peerless - 1x1.5-6 STP 8196LF</b>	Nom. Speed:	<b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type:	<b>8196 - ANSI Standard End Suction</b>	Impeller Dia.:	<b>6.06/4</b> inch	Duty Head :	ft
		Temperature:	<b>68</b> °F	Efficiency :	%
		Viscosity:	<b>1.009</b> cP	Power Required :	hp
Curve No.:	<b>8196LF-001</b>	Sp. Gravity:	<b>1.000</b>	NPSH Required :	ft
Impeller No.		Fluid:	<b>Water</b>	Peak Power:	<b>4.62</b> hp
Item :	<b>1</b>			Closed Valve Pressure	<b>157.922</b> ft
Your Ref.:		Tolerance :	<b>Hyd Inst-Peerless Std</b>		



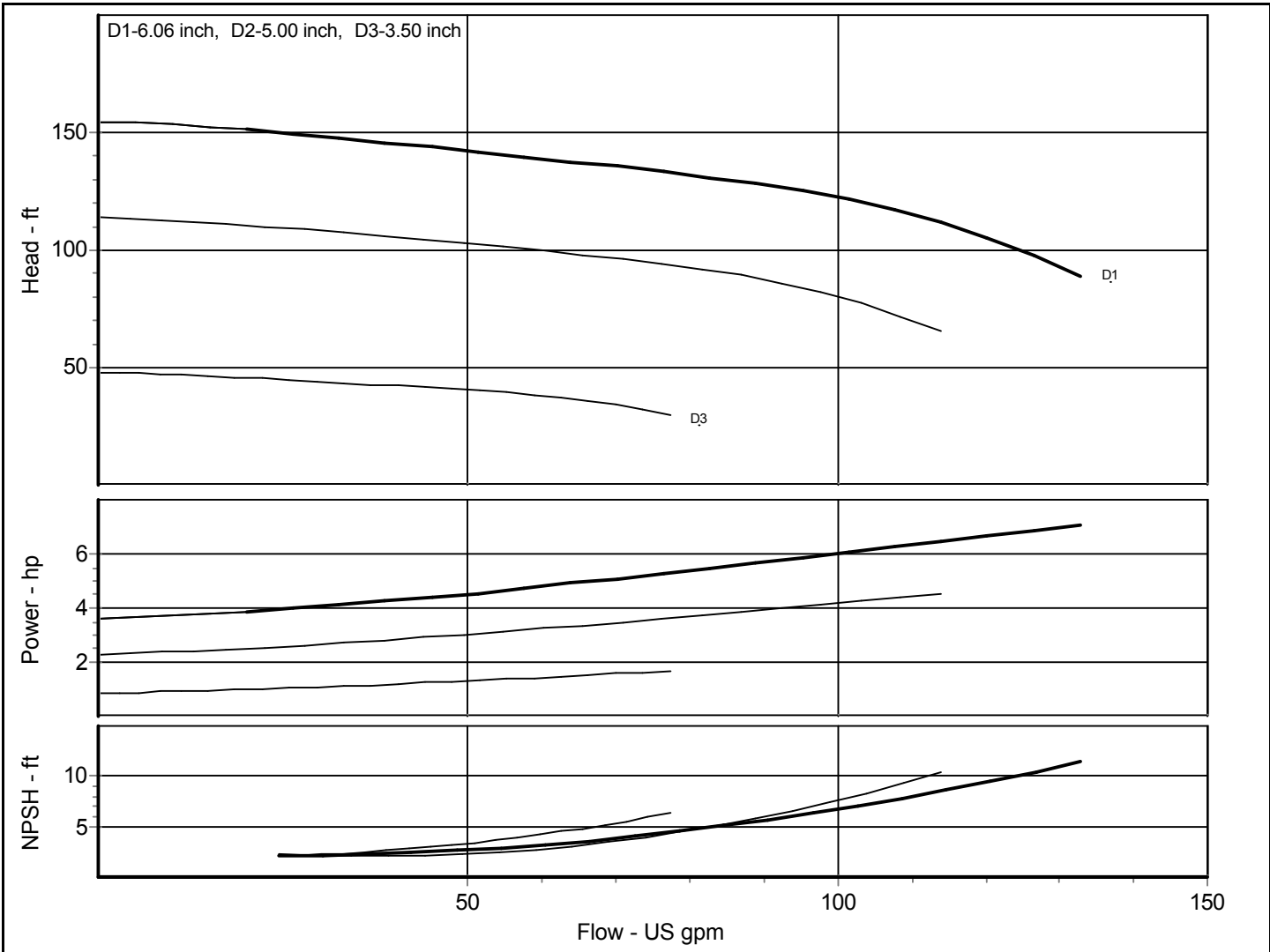


Customer :

Peerless Pump Company, LLC  
Indianapolis, Indiana 46207-7026

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Pump Model: <b>Peerless - 1x1.5- 6 STP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>6.06/3.5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-002</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>7.06</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>154.842</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.

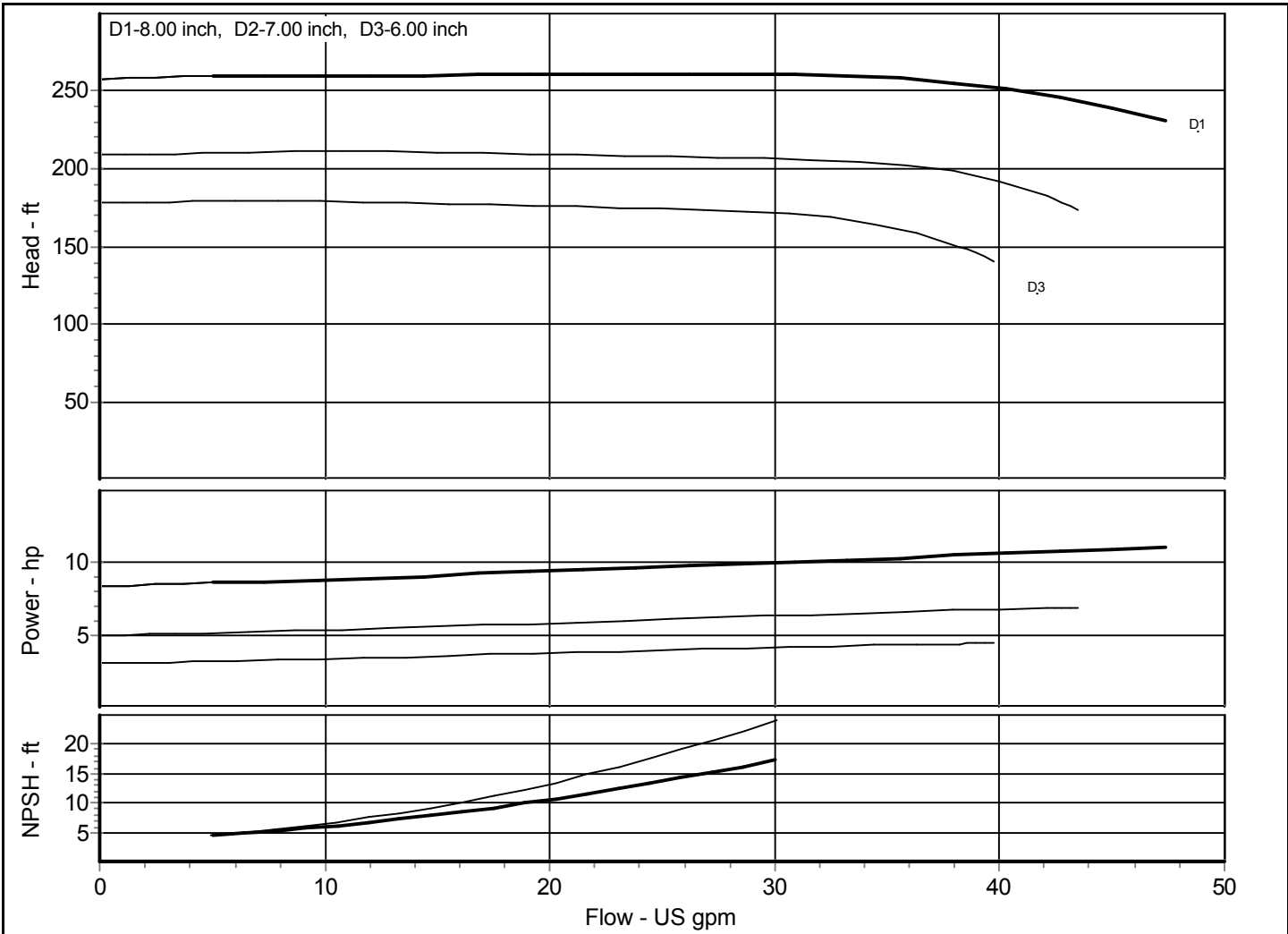


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Pump Model: <b>Peerless - 1x1.5-8 STP 8196LF</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196LF-003</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>11.12</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>257.983</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.

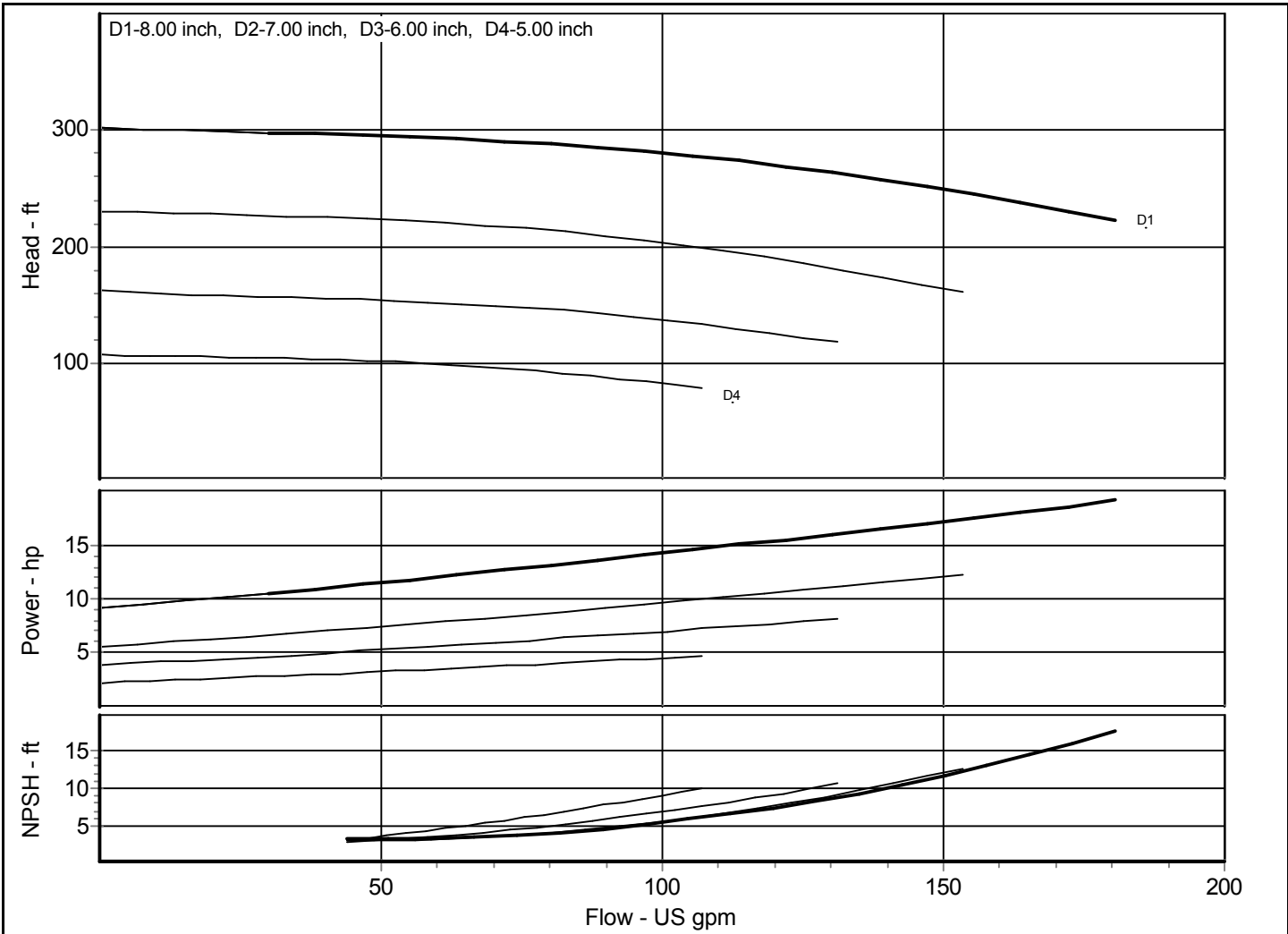


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Pump Model: <b>Peerless - 1x1.5-8 STP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8/5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-006</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>19.09</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>301.676</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.

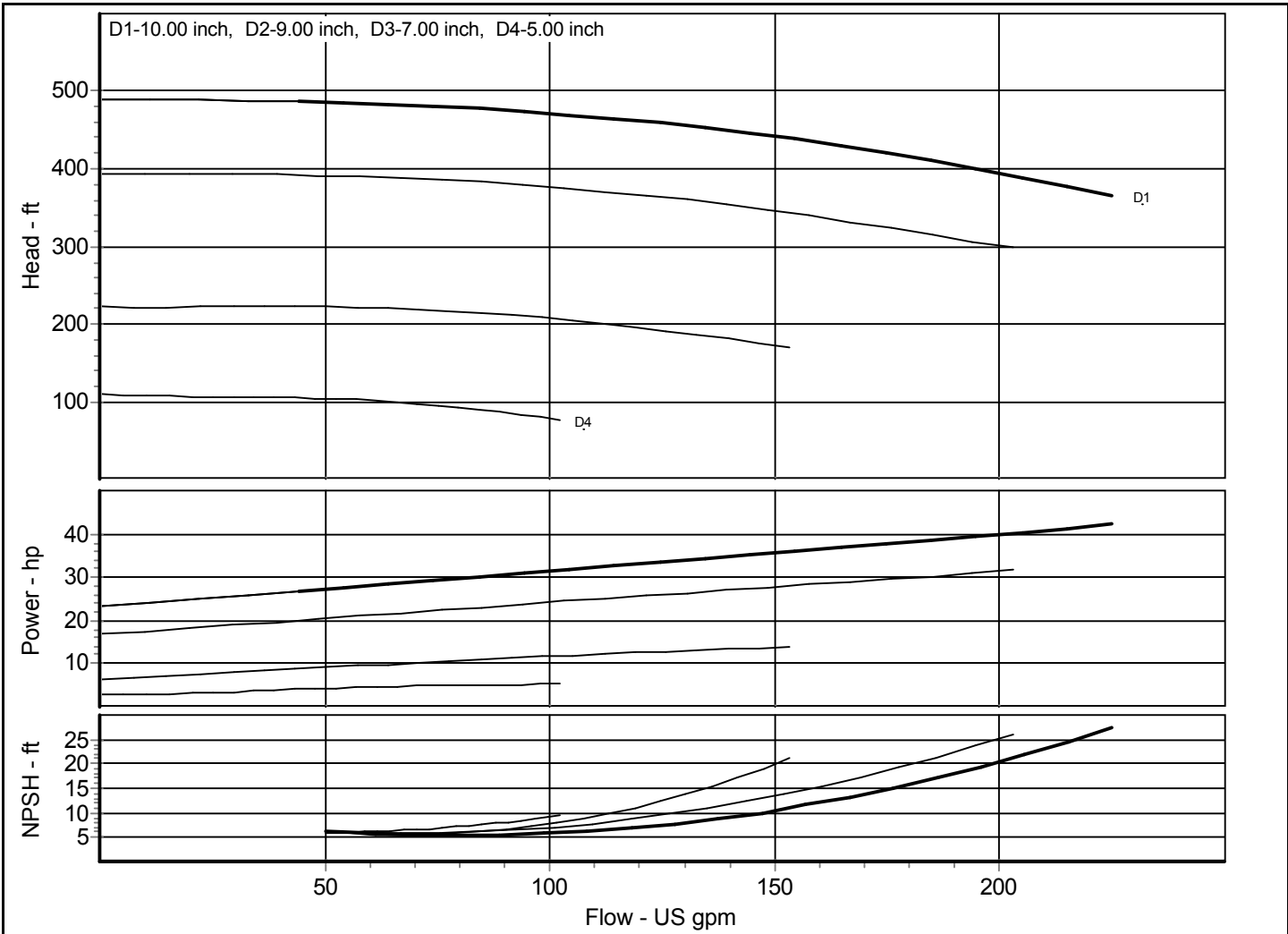


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Pump Model: <b>Peerless - 1x2-10 MTP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-019</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>42.21</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>490.006</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.



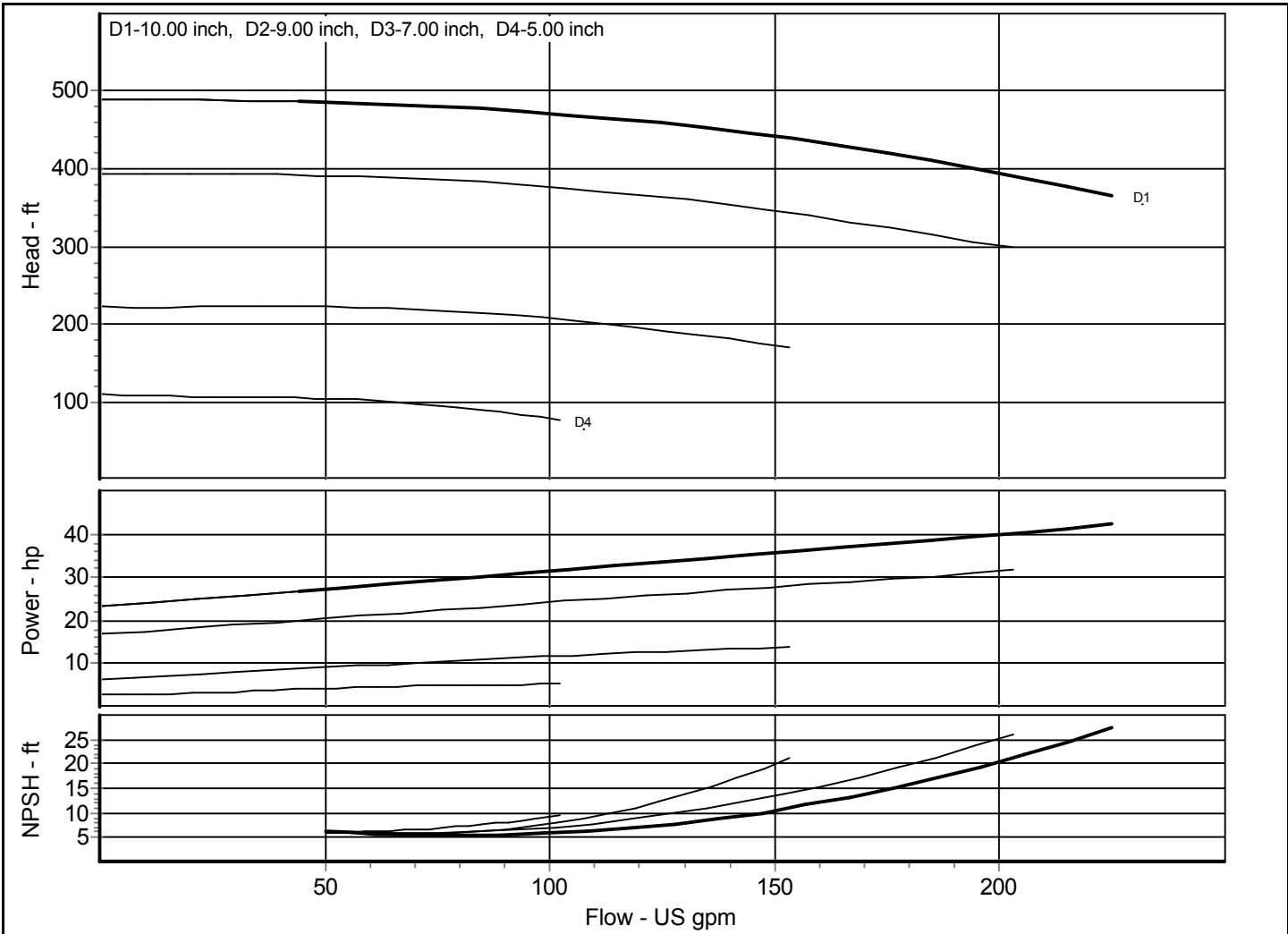


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Pump Model: <b>Peerless - 1x2-10 LTP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-019</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>42.21</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>490.006</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.

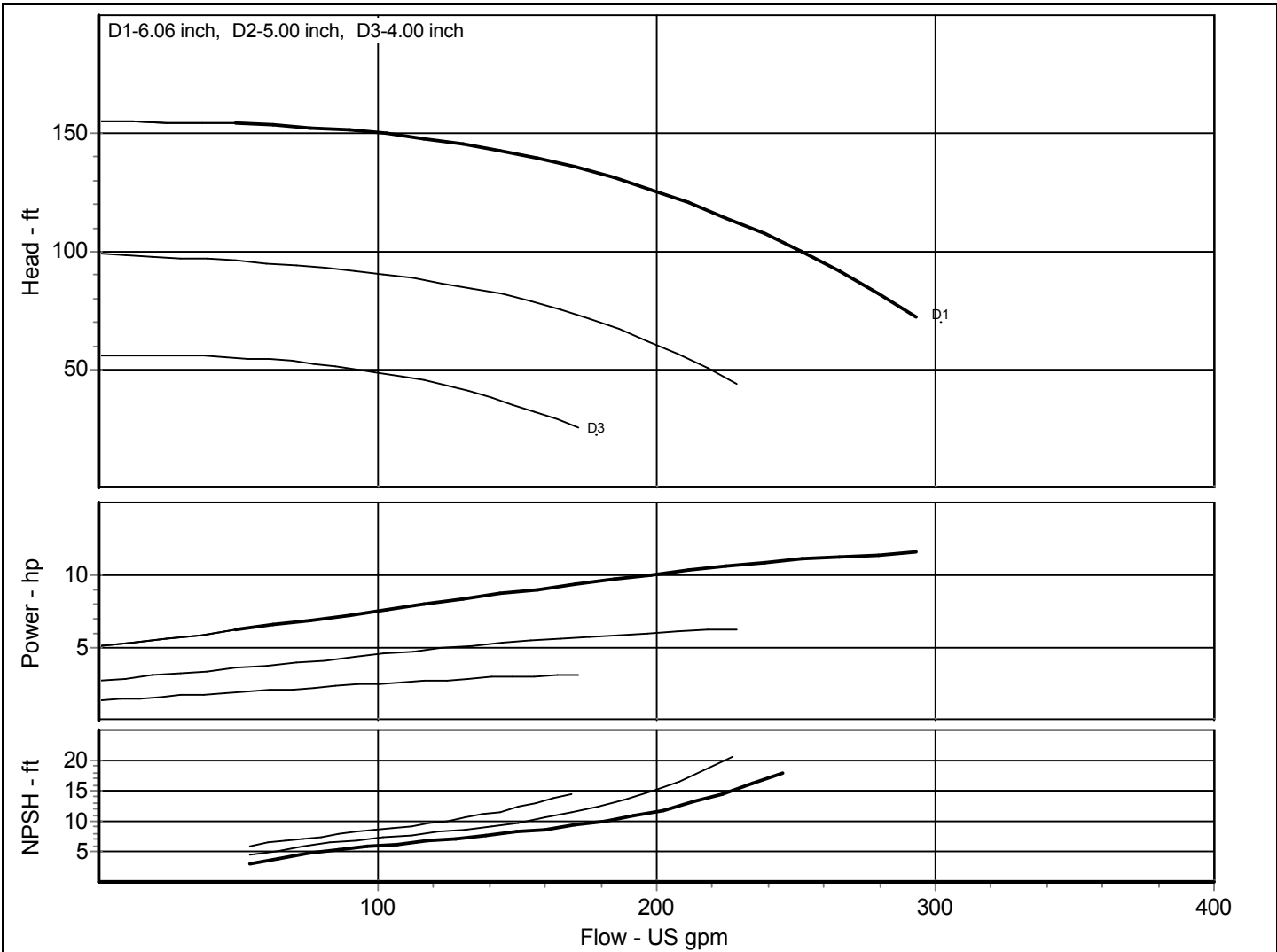


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Pump Model: <b>Peerless - 1.5x3-6 STP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>6.06/4</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-004</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>11.56</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>154.889</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

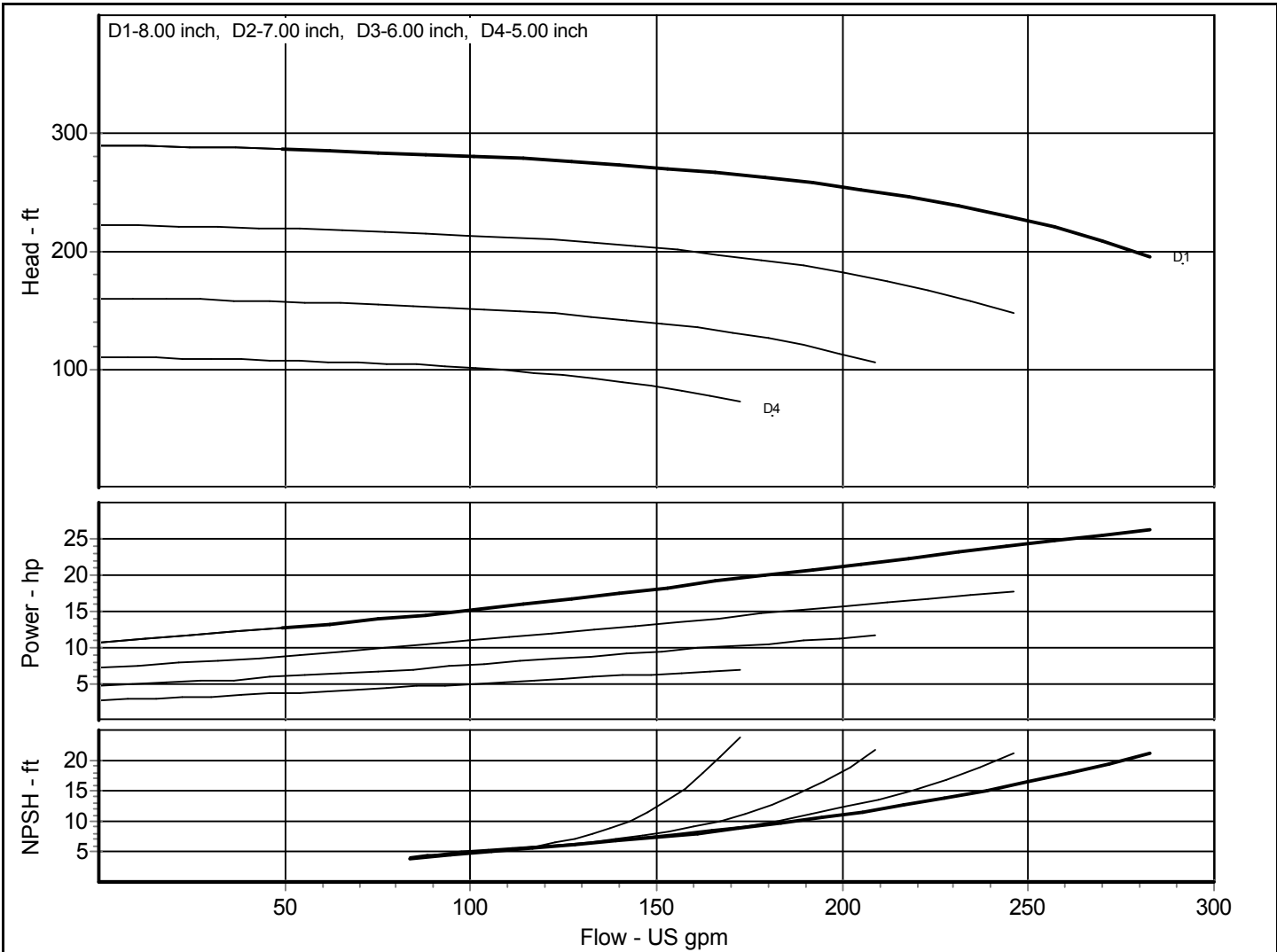


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1.5x3-8 STP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8/5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-008</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>26.21</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>289.857</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

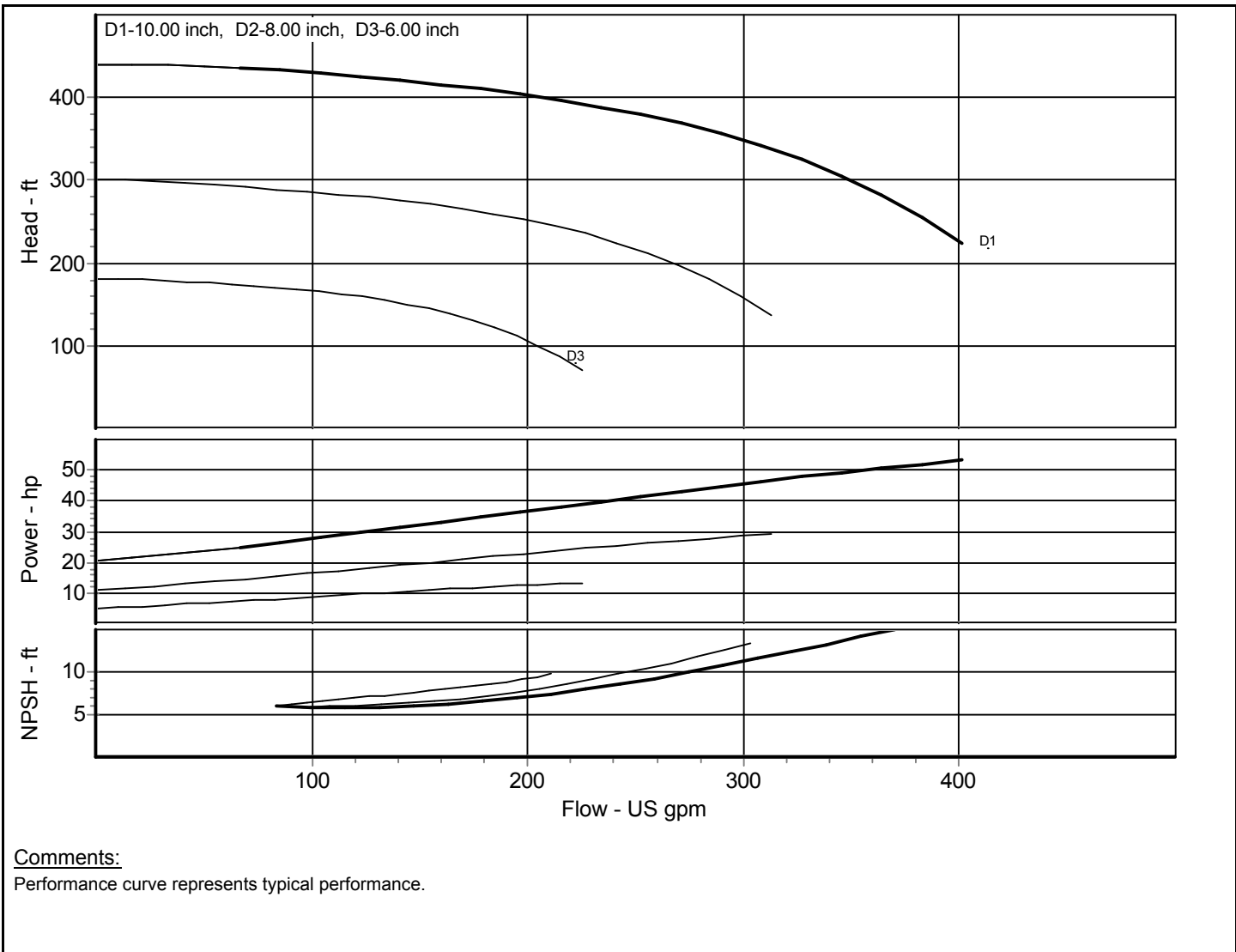


Customer :

Peerless Pump Company LLC  
P O Box 7026, Indianapolis, Indiana, 46202

<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 1.5x3-10 MTP 8196</b>	Nom. Speed: <b>3550 RPM, 60 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-021</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>53.19 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>440.214 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





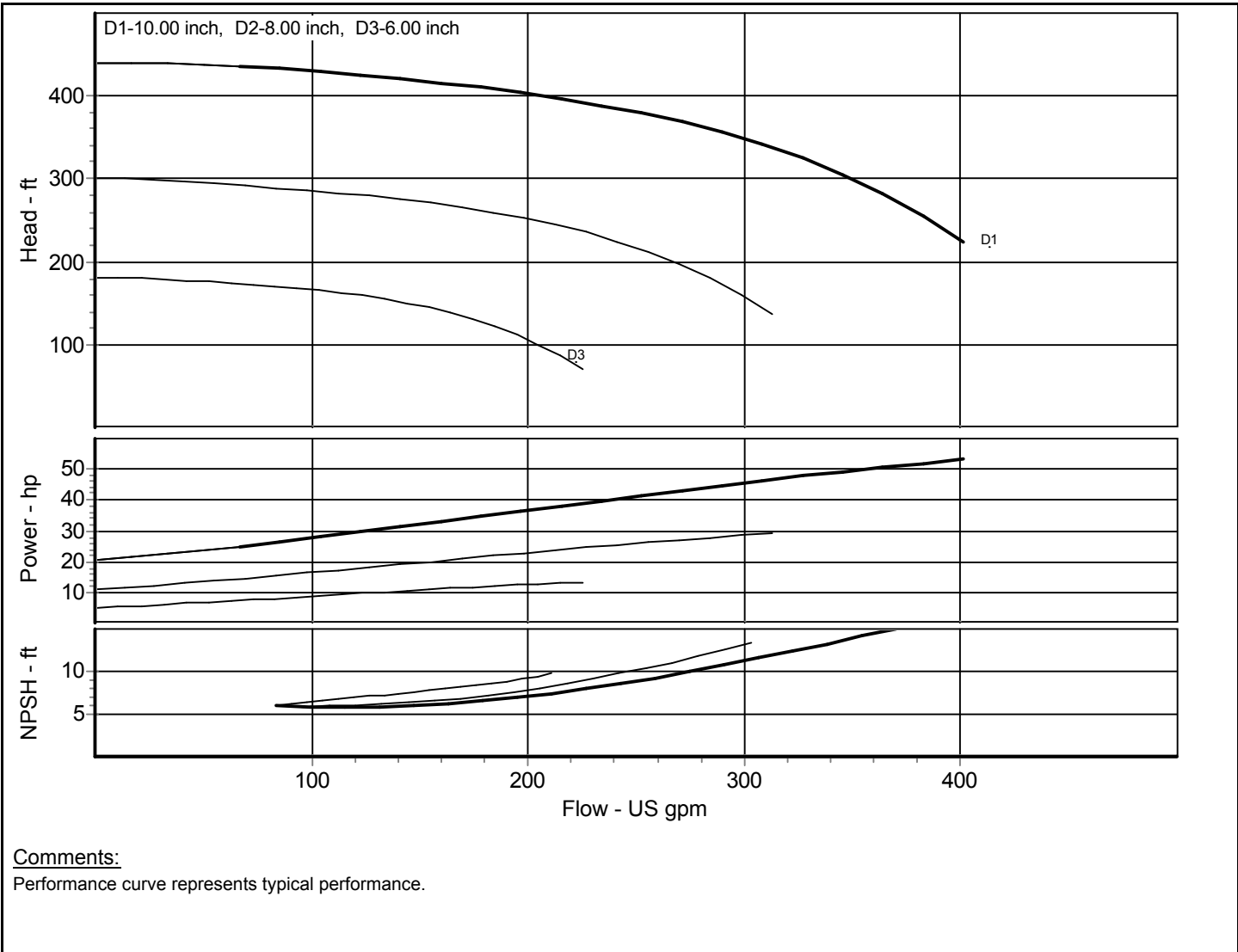
Customer :

Peerless Pump Company LLC  
P O Box 7026, Indianapolis, Indiana, 46202

<b>Project :</b>		<b>Contact :</b>	
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Date :</b>		<b>Date :</b>	

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Pump Model: <b>Peerless - 1.5x3-10 LTP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-021</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>53.19</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>440.214</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



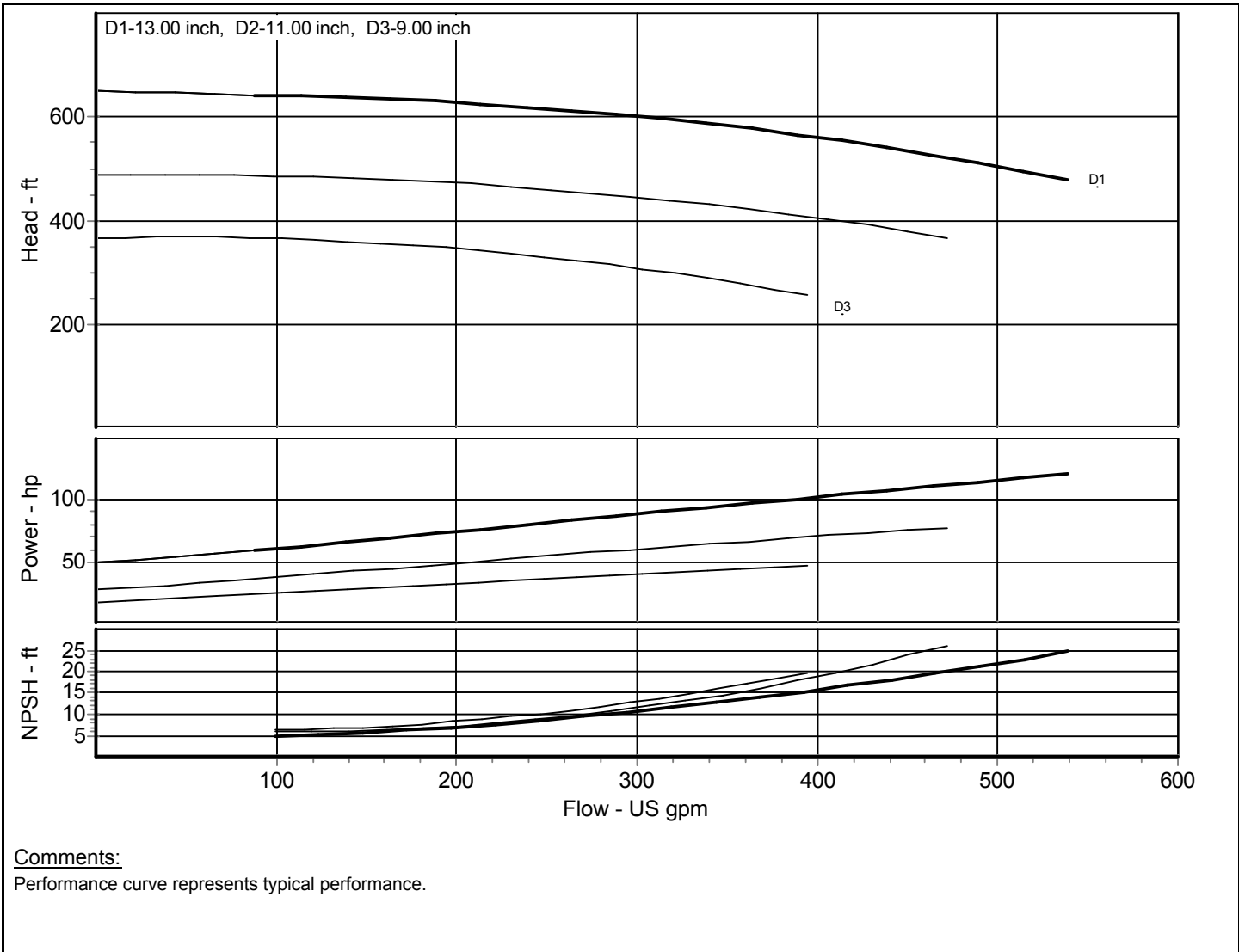


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 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1.5x3-13 MTP 8196** Nom. Speed: **3550** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/9** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Curve No.: **8196-029** Sp. Gravity: **1.000** Peak Power: **121.42** hp  
 Impeller No. Fluid: **Water** Closed Valve Pressure **649.94** ft  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



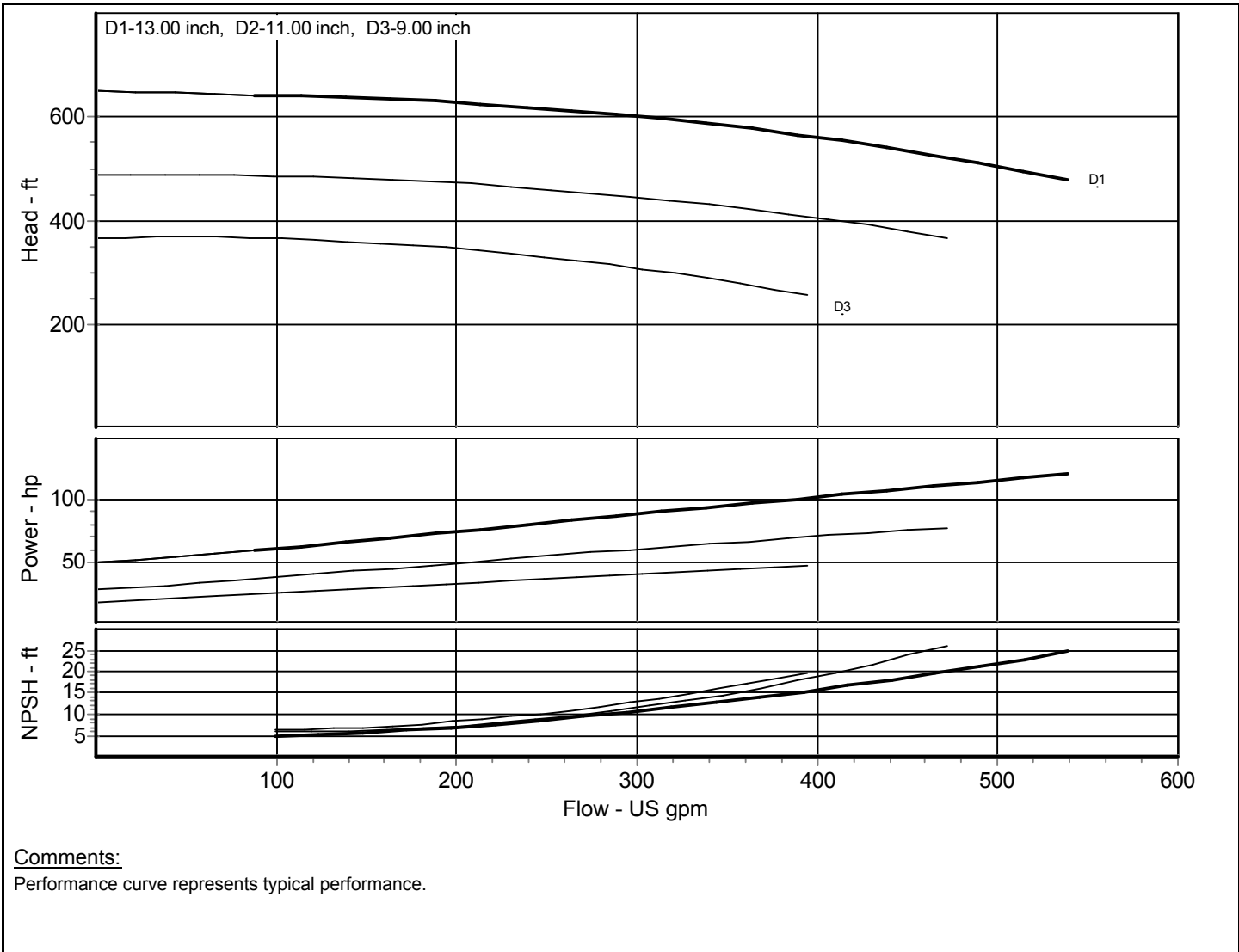


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 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model:	<b>Peerless - 1.5x3-13 LTP 8196</b>	Nom. Speed:	<b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type:	<b>8196 - ANSI Standard End Suction</b>	Impeller Dia.:	<b>13/9</b> inch	Duty Head :	ft
		Temperature:	<b>68</b> °F	Efficiency :	%
		Viscosity:	<b>1.009</b> cP	Power Required :	hp
Curve No.:	<b>8196-029</b>	Sp. Gravity:	<b>1.000</b>	NPSH Required :	ft
Impeller No.		Fluid:	<b>Water</b>	Peak Power:	<b>121.42</b> hp
Item :	<b>1</b>			Closed Valve Pressure	<b>649.94</b> ft
Your Ref.:		Tolerance :	<b>Hyd Inst-Peerless Std</b>		





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-6 STP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **3550** RPM, 60 Hz Electric  
 Impeller Dia.: **6.06/4** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft  
 Peak Power: **18.95** hp  
 Closed Valve Pressure **154.851** ft

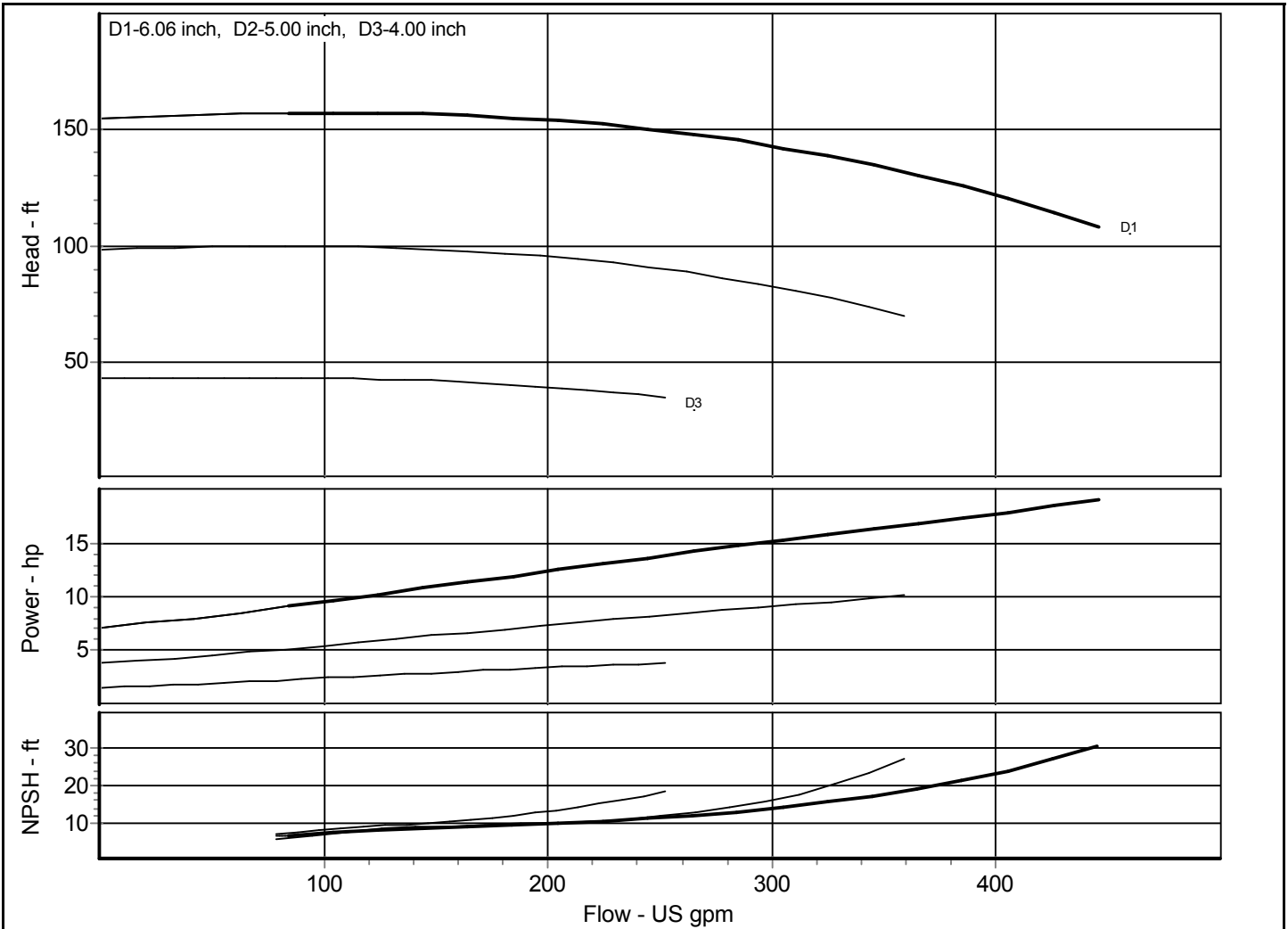
Curve No.: **8196-009**

Impeller No.

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



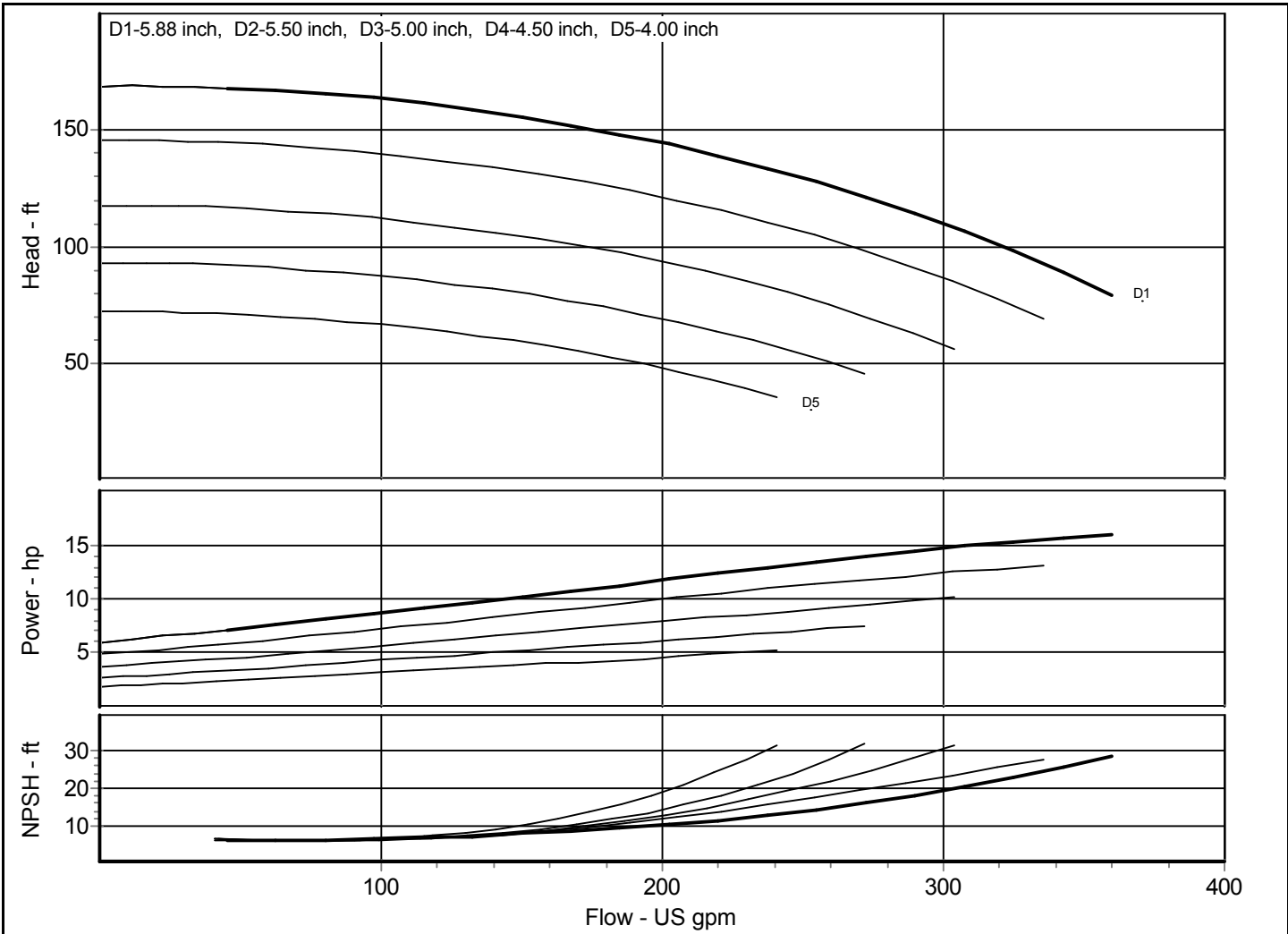


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-6 MTP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>5.88/4</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-012</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>16.01</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>168.959</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-8 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **3550** RPM, 60 Hz Electric  
 Impeller Dia.: **8.38/5.5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-013**

Fluid: **Water**

Peak Power: **37.27** hp

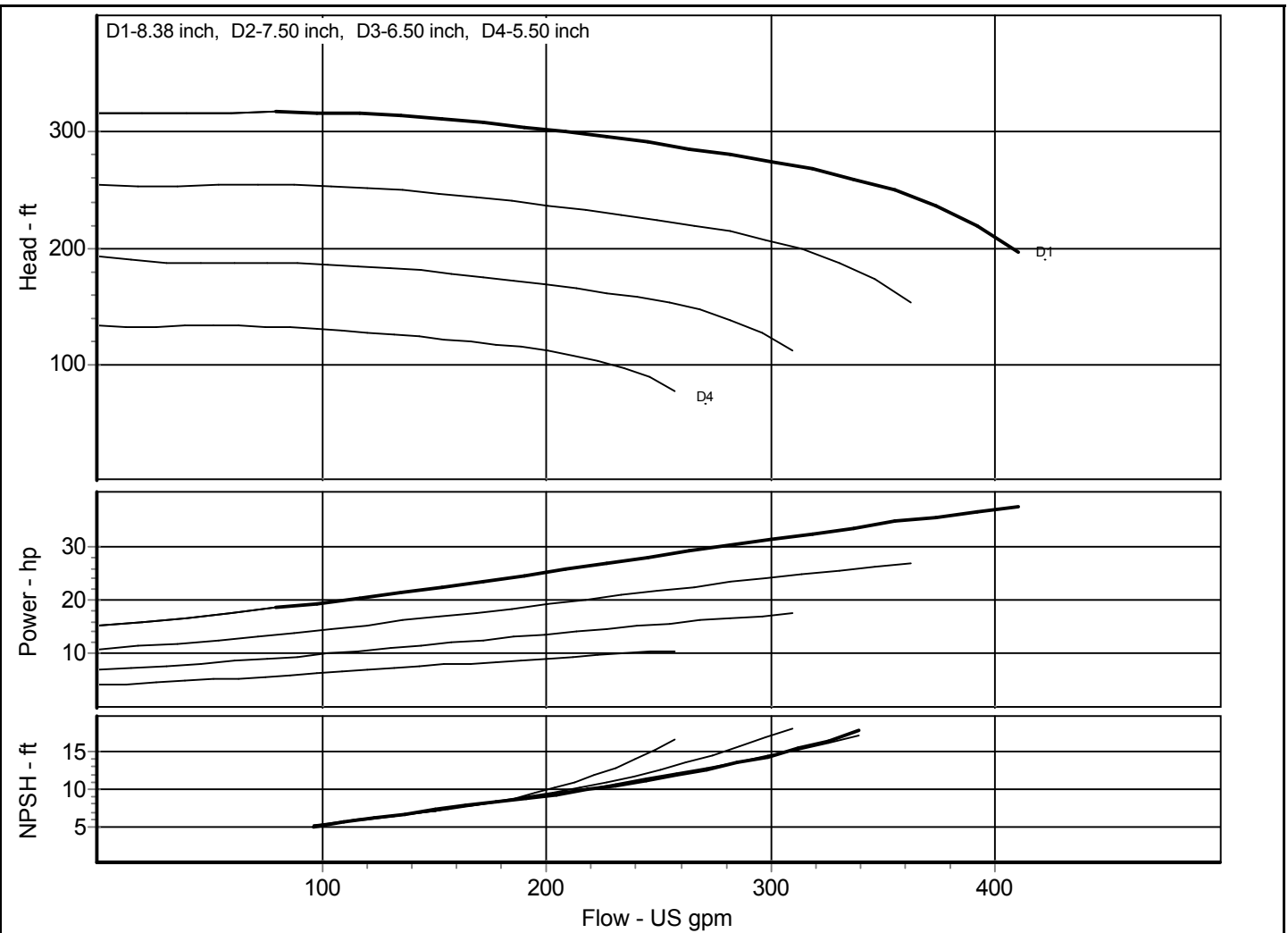
Impeller No.

Closed Valve Pressure **316.092** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

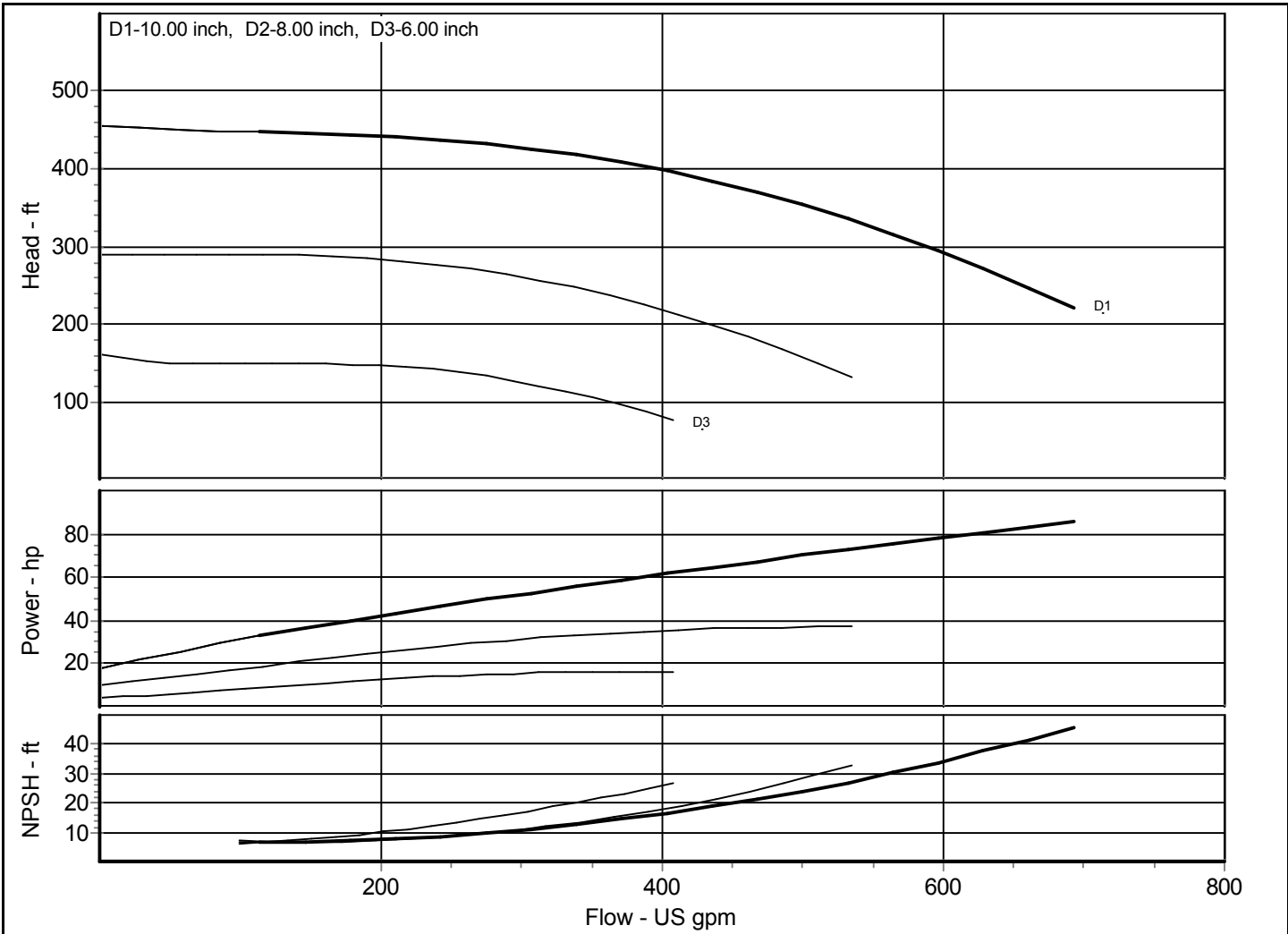


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 2x3-10 MTP 8196** Nom. Speed: **3550** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **10/6** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Curve No.: **8196-023** Sp. Gravity: **1.000** Peak Power: **85.39** hp  
 Impeller No. Fluid: **Water** Closed Valve Pressure **454.906** ft  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.

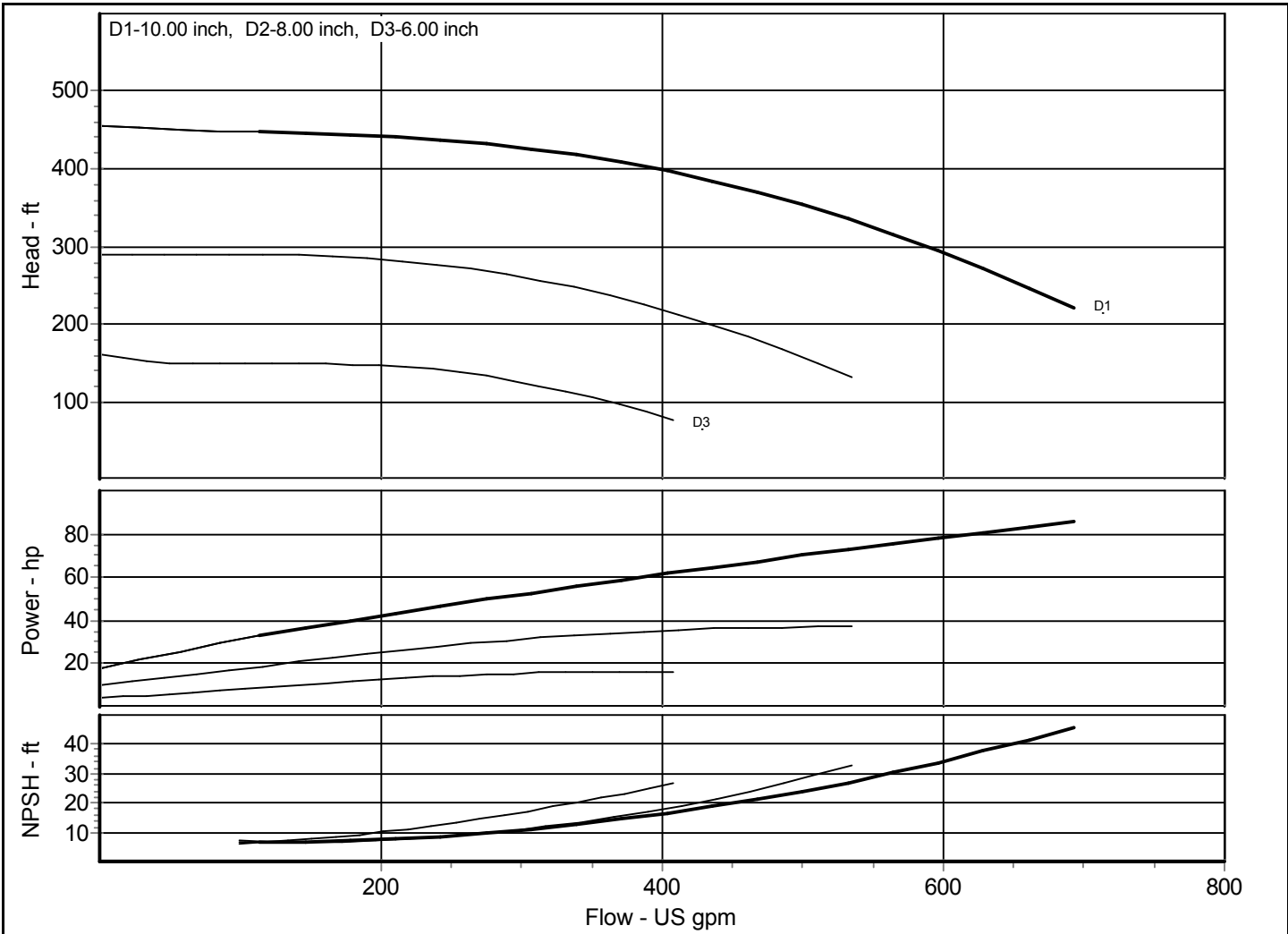


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 Indianapolis, Indiana 46207-7026

Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 2x3-10 LTP 8196** Nom. Speed: **3550** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **10/6** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **85.39** hp  
 Fluid: **Water** Closed Valve Pressure **454.906** ft  
 Curve No.: **8196-023**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-13 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **3550** RPM, 60 Hz Electric  
 Impeller Dia.: **13/9** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-032**

Fluid: **Water**

Peak Power: **183.14** hp

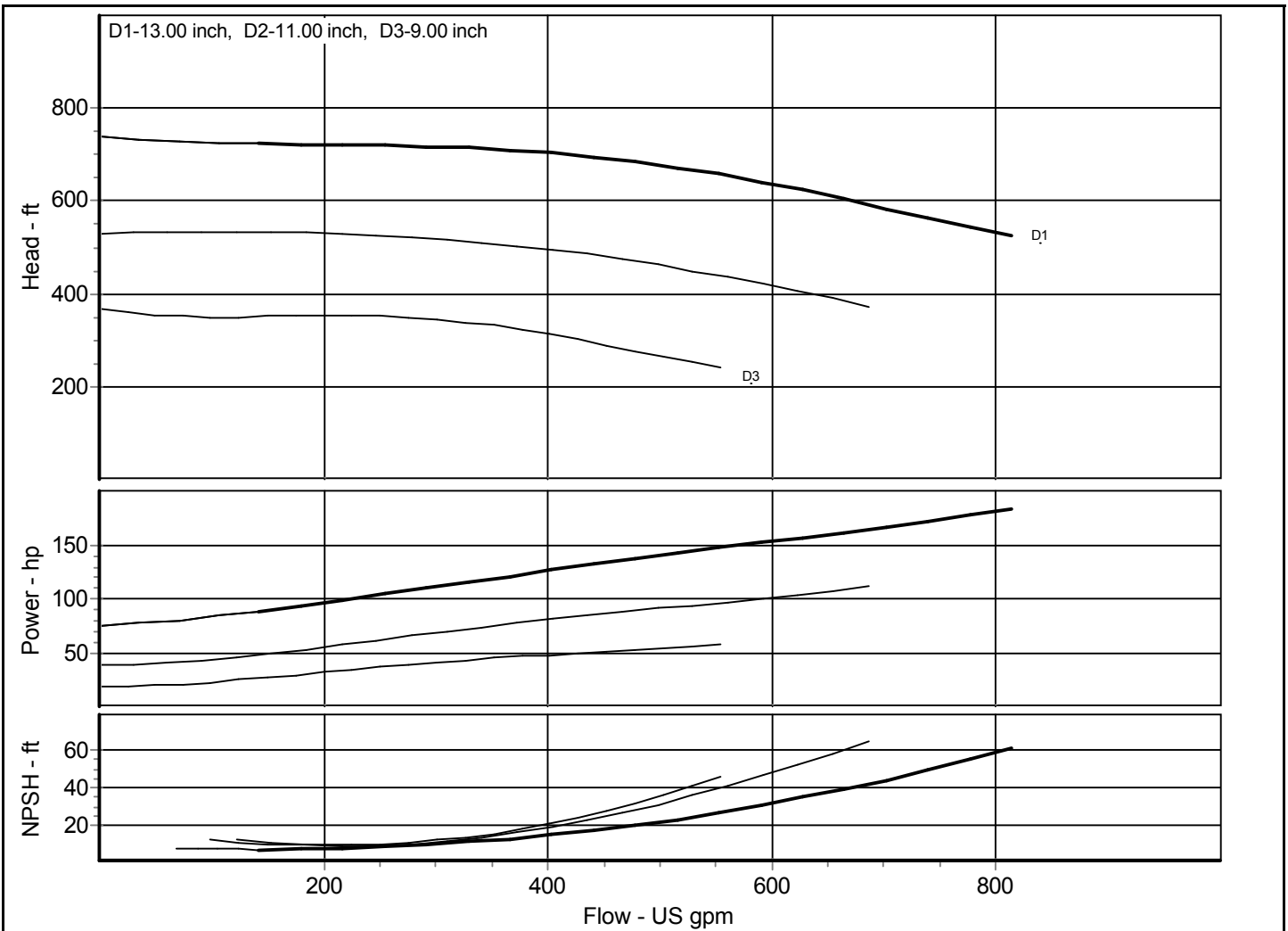
Impeller No.

Closed Valve Pressure **741.259** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 3x4-8G MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **3550** RPM, 60 Hz Electric  
 Impeller Dia.: **8.38/5.5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-017**

Impeller No.

Fluid: **Water**

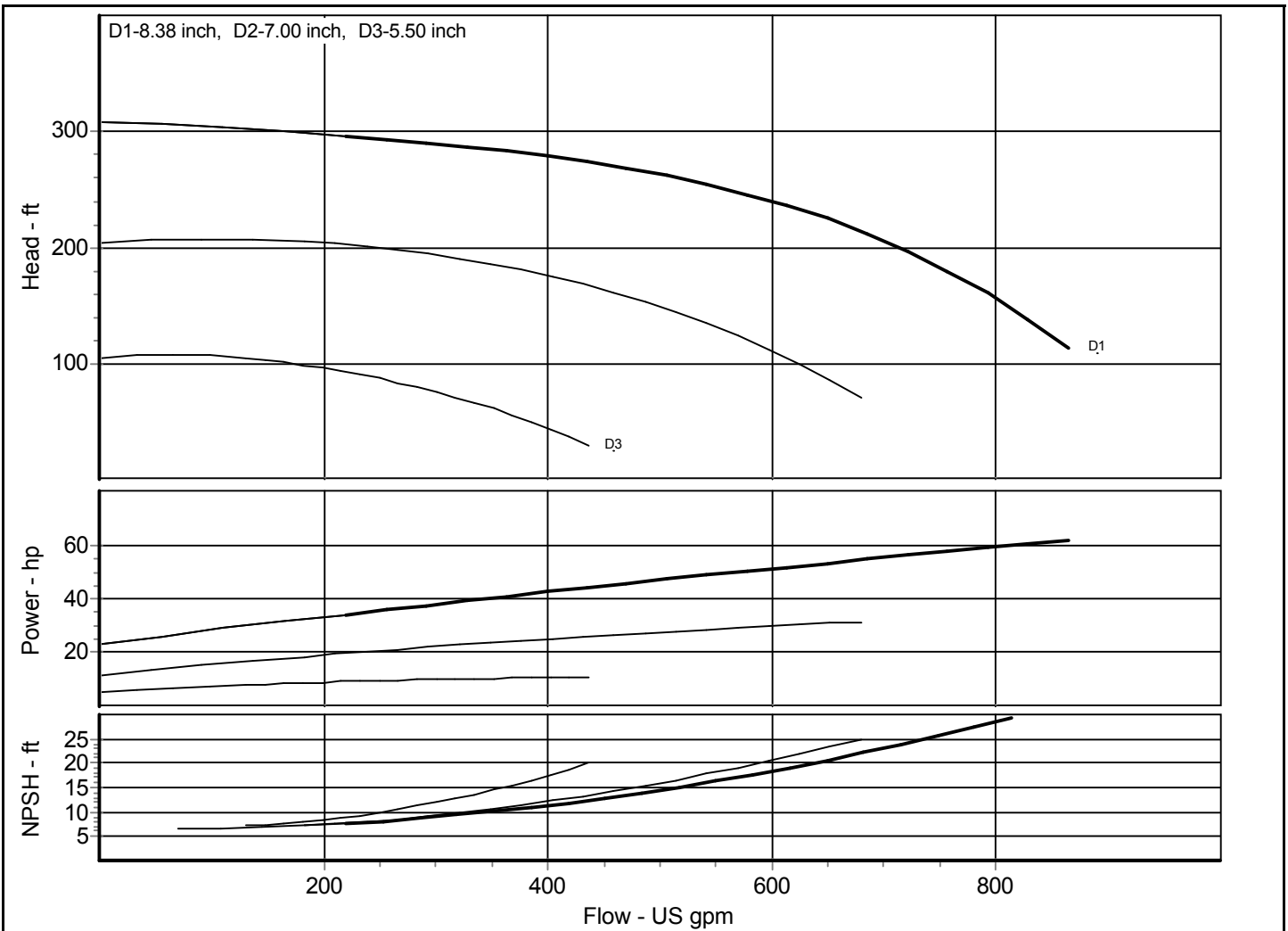
Peak Power: **61.56** hp

Item : **1**

Closed Valve Pressure **308.713** ft

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

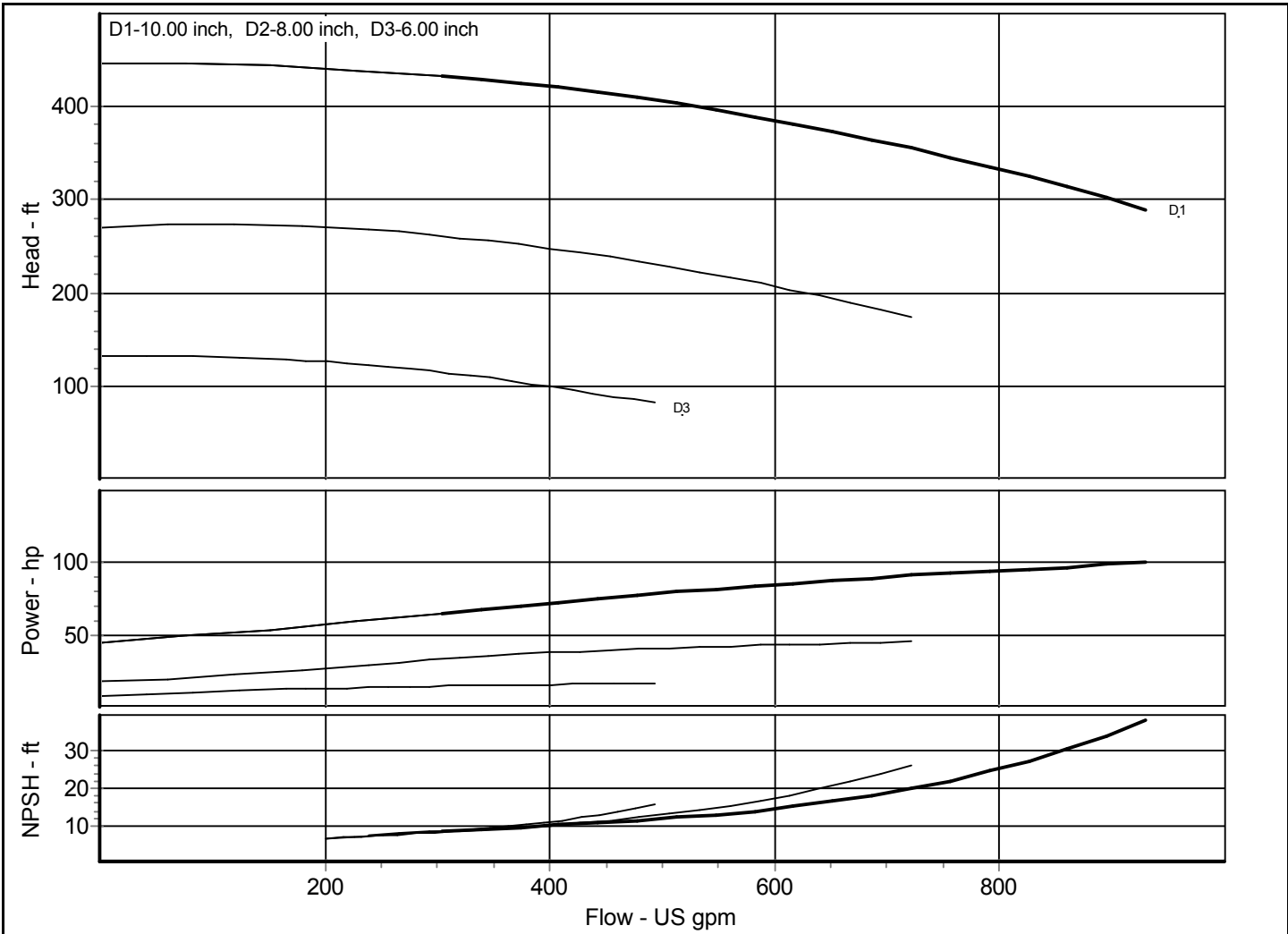


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 Indianapolis, Indiana 46207-7026

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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 3x4-10 MTP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-025</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>100.3</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>446.005</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

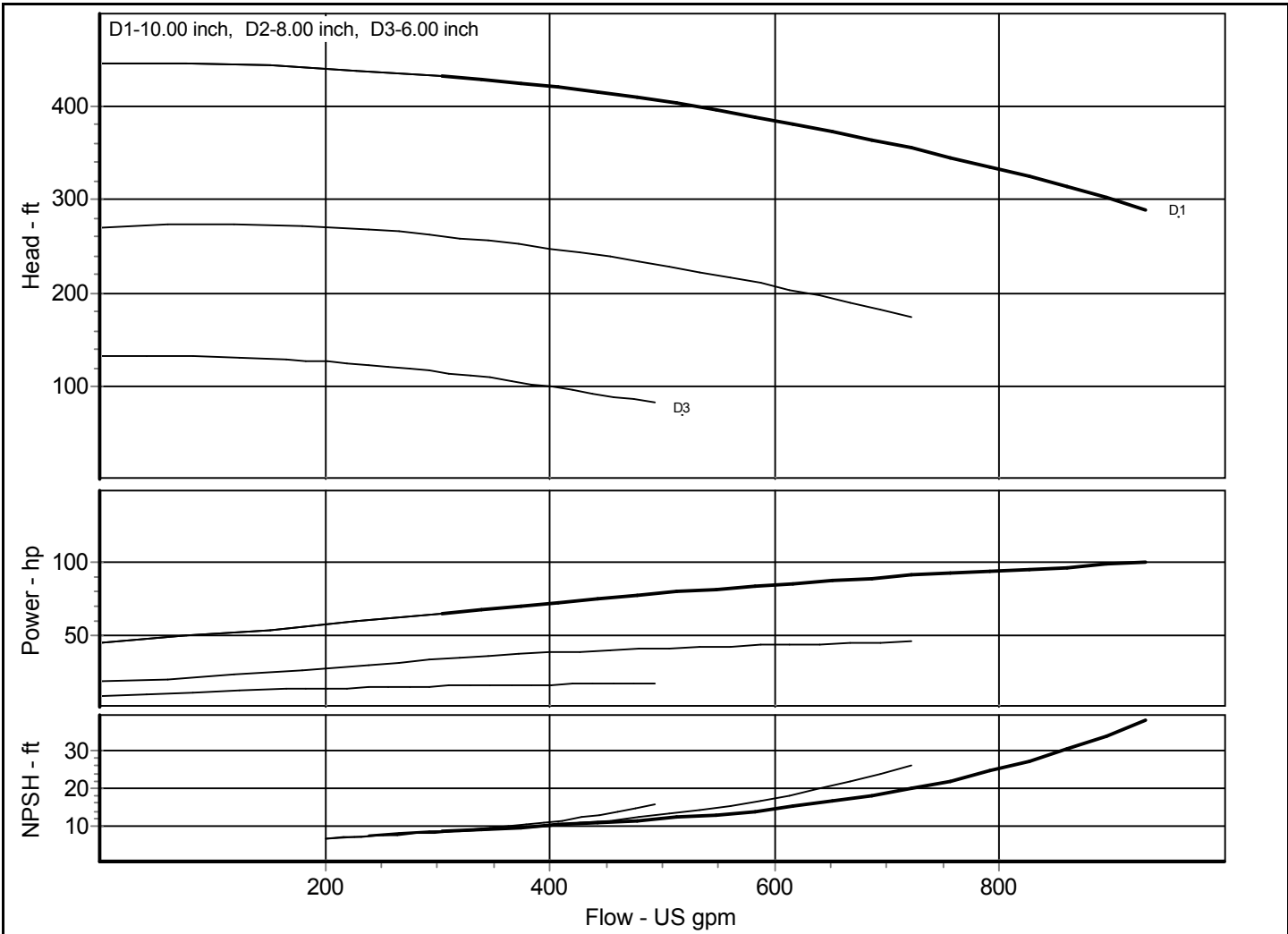


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Peerless Pump Company, LLC  
Indianapolis, Indiana 46207-7026

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<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 3x4-10 LTP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-025</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>100.3</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>446.005</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.



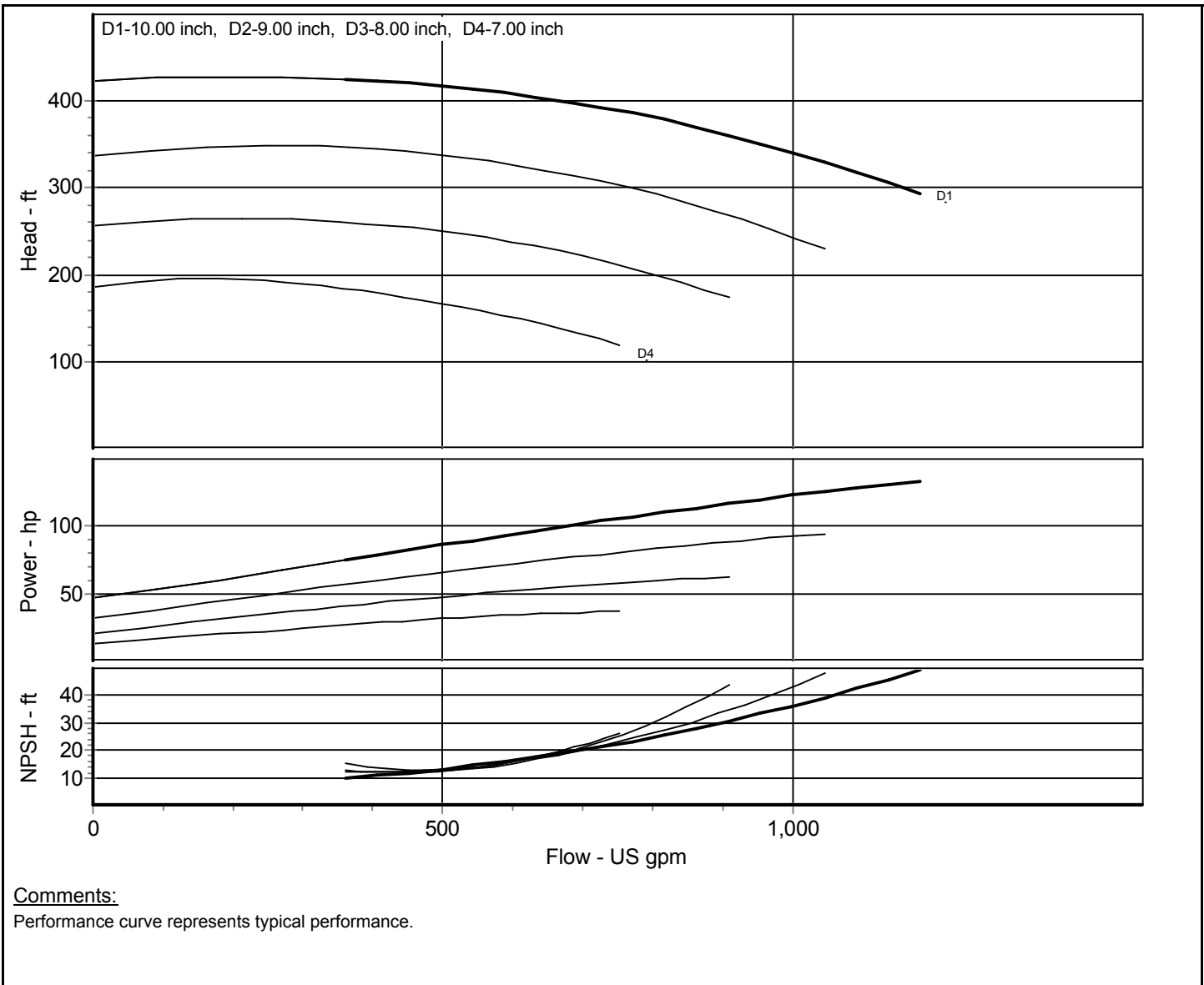


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 Indianapolis, Indiana 46207-7026

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 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 3x4-13 5V MTP 8196** Nom. Speed: **3550** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **10/7** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **134.1** hp  
 Fluid: **Water** Closed Valve Pressure **422.993** ft  
 Curve No.: **8196-035**  
 Impeller No.:  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



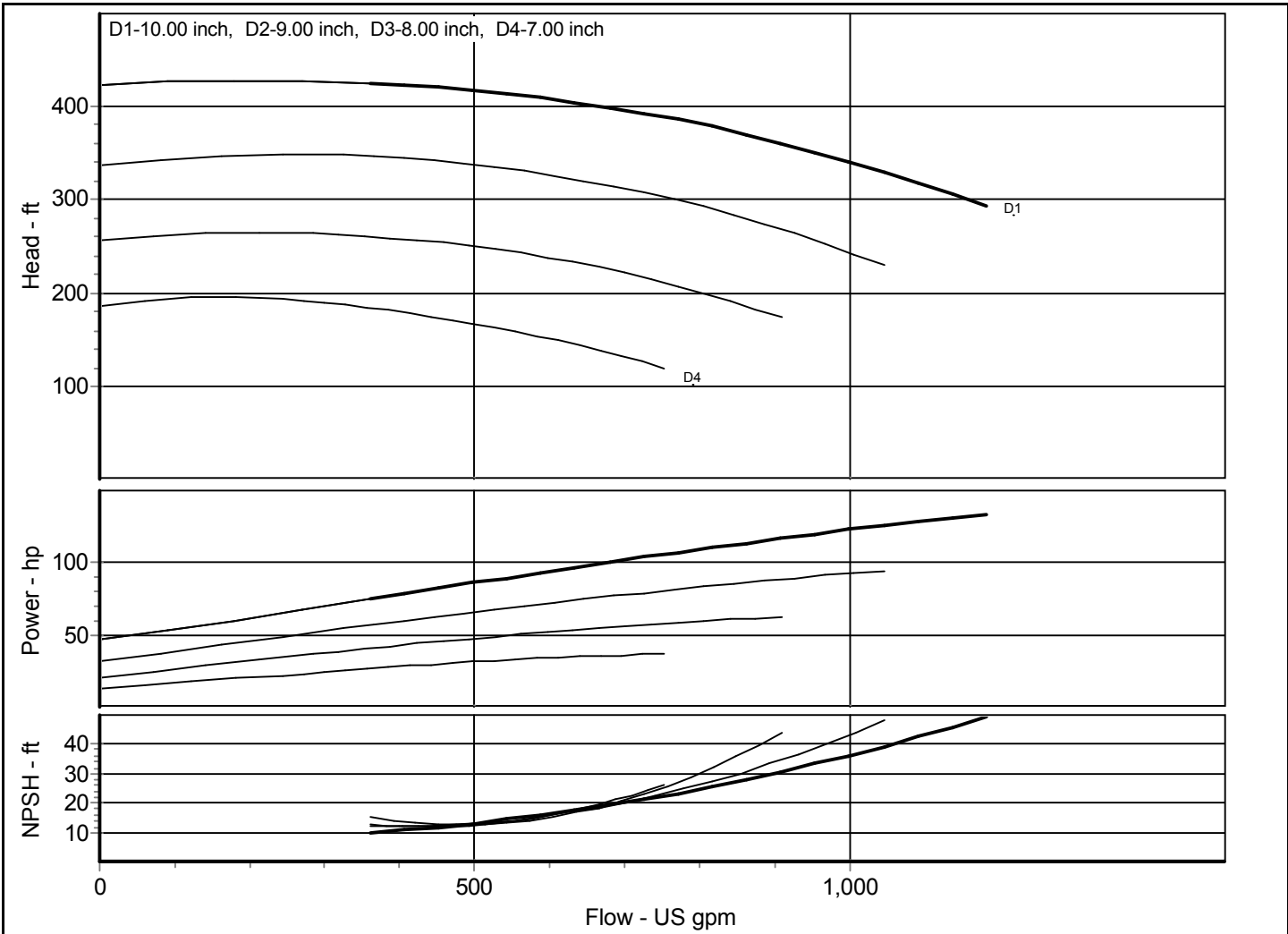


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**Quote No. :** \_\_\_\_\_ **Page No. :** \_\_\_\_\_ **Phone :** \_\_\_\_\_ **Fax :** \_\_\_\_\_  
 \_\_\_\_\_ **Date :** \_\_\_\_\_

Pump Model: <b>Peerless - 3x4-13 5V LTP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/7</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-035</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.:	Fluid: <b>Water</b>	Peak Power:	<b>134.1</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>422.993</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

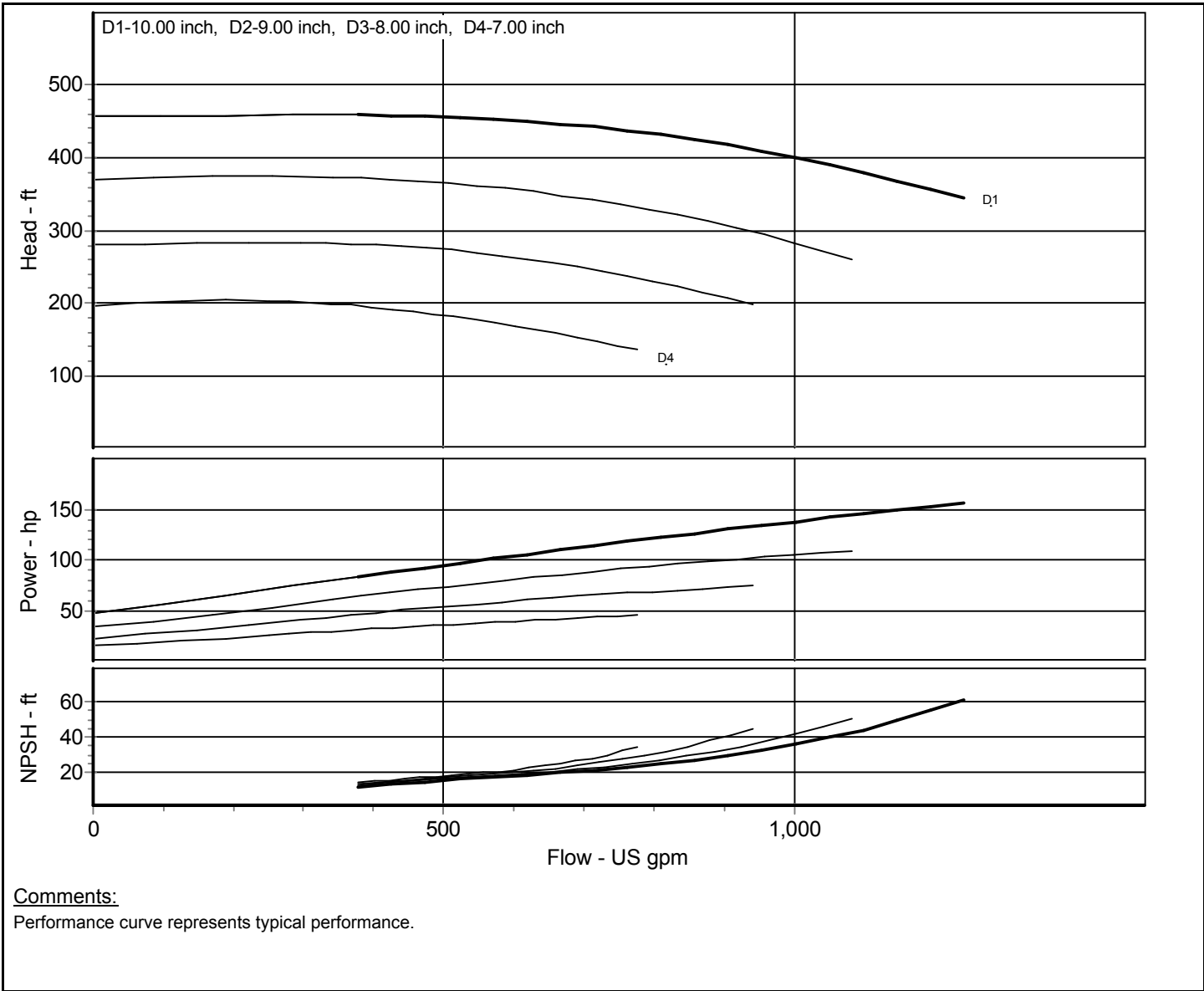


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 3x4-13 6V MTP 8196</b>	Nom. Speed: <b>3550</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/7</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-038</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>156</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>456.997</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.

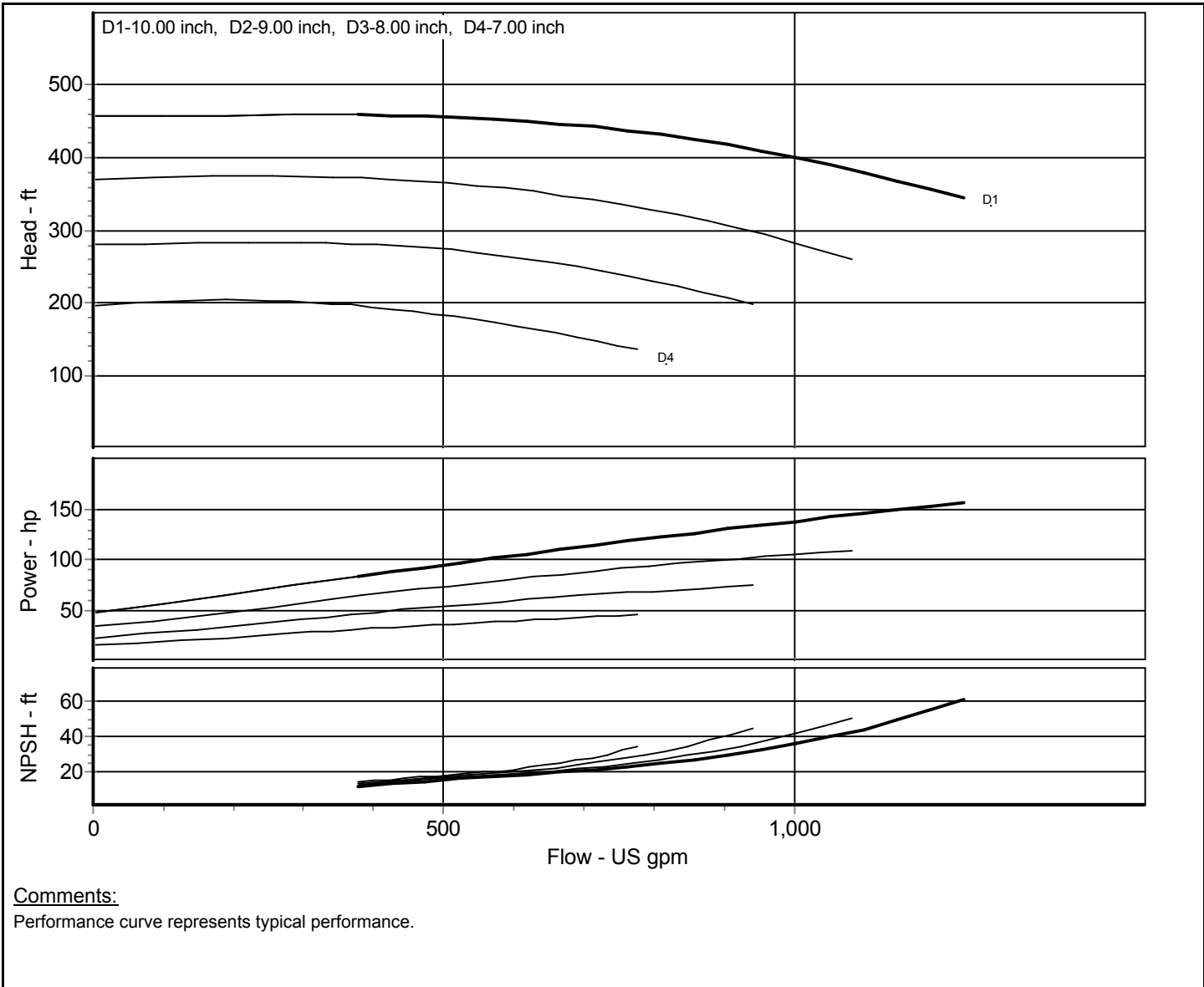


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**Project :** \_\_\_\_\_ **Contact :** \_\_\_\_\_  
**Quote No. :** \_\_\_\_\_ **Page No. :** \_\_\_\_\_ **Phone :** \_\_\_\_\_ **Fax :** \_\_\_\_\_  
 \_\_\_\_\_ **Date :** \_\_\_\_\_

Pump Model: <b>Peerless - 3x4-13 6V LTP 8196</b>	Nom. Speed: <b>3550 RPM, 60 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/7 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-038</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.:	Fluid: <b>Water</b>	Peak Power:	<b>156 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>456.997 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

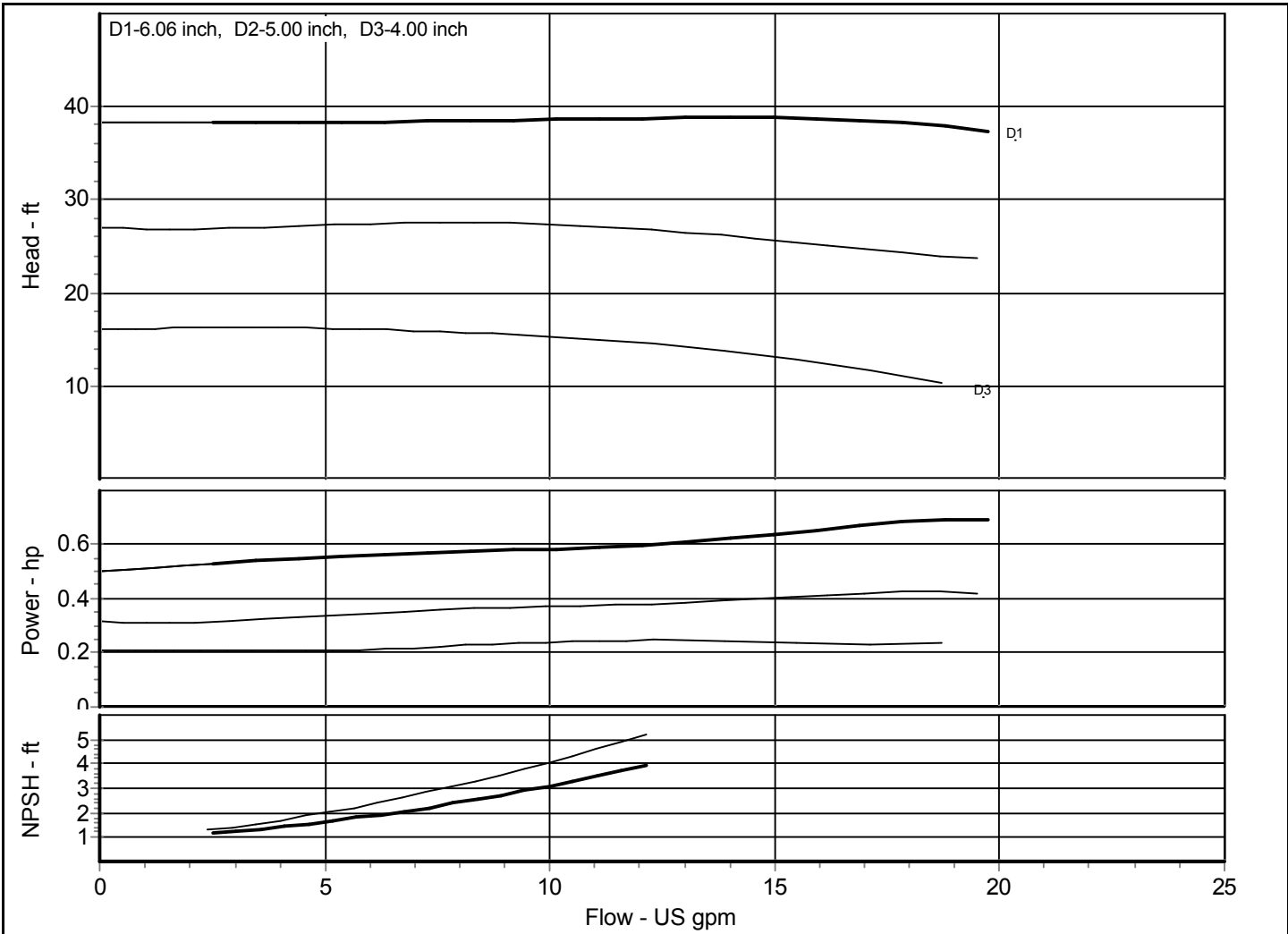


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1x1.5-6 STP 8196LF</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>6.06/4</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196LF-002</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>0.69</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>38.317</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 1x1.5- 6 STP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750** RPM, 60 Hz Electric  
 Impeller Dia.: **6.06/3.5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-001**

Fluid: **Water**

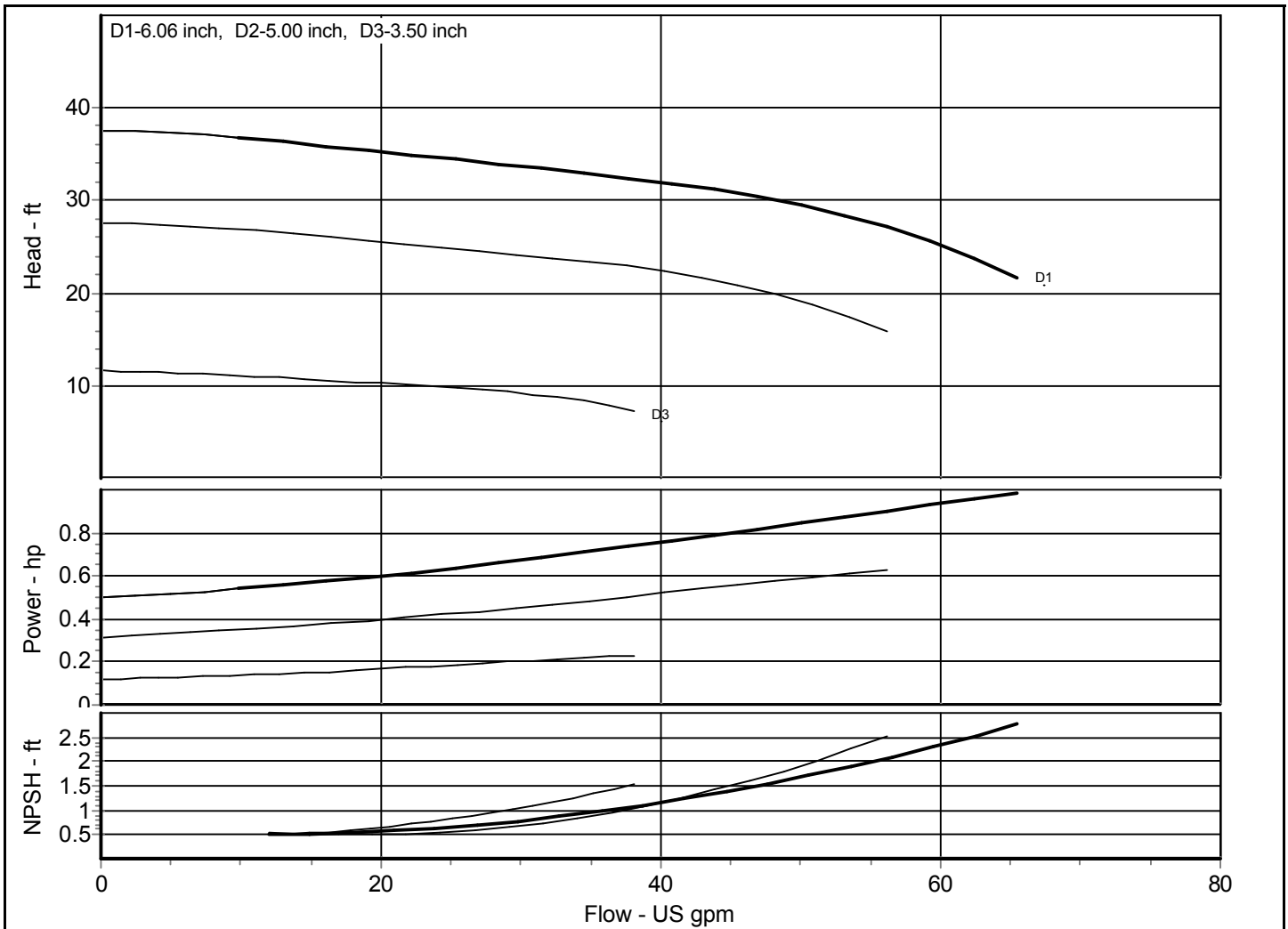
Peak Power: **0.98** hp  
 Closed Valve Pressure **37.628** ft

Impeller No.

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

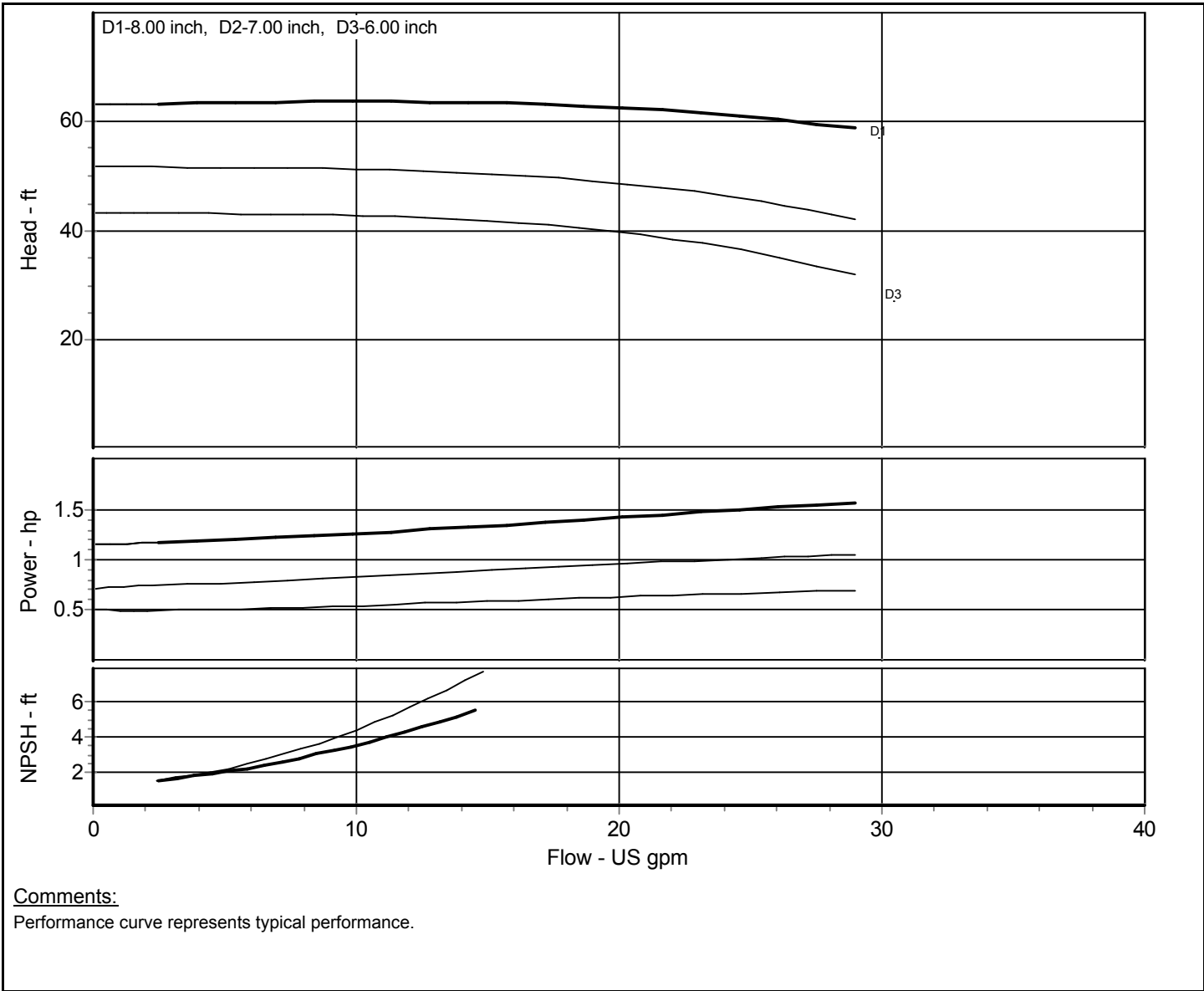


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1x1.5-8 STP 8196LF** Nom. Speed: **1750** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **8/6** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Curve No.: **8196LF-004** Sp. Gravity: **1.000** Peak Power: **1.56** hp  
 Impeller No. Fluid: **Water** Closed Valve Pressure **63.018** ft  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.

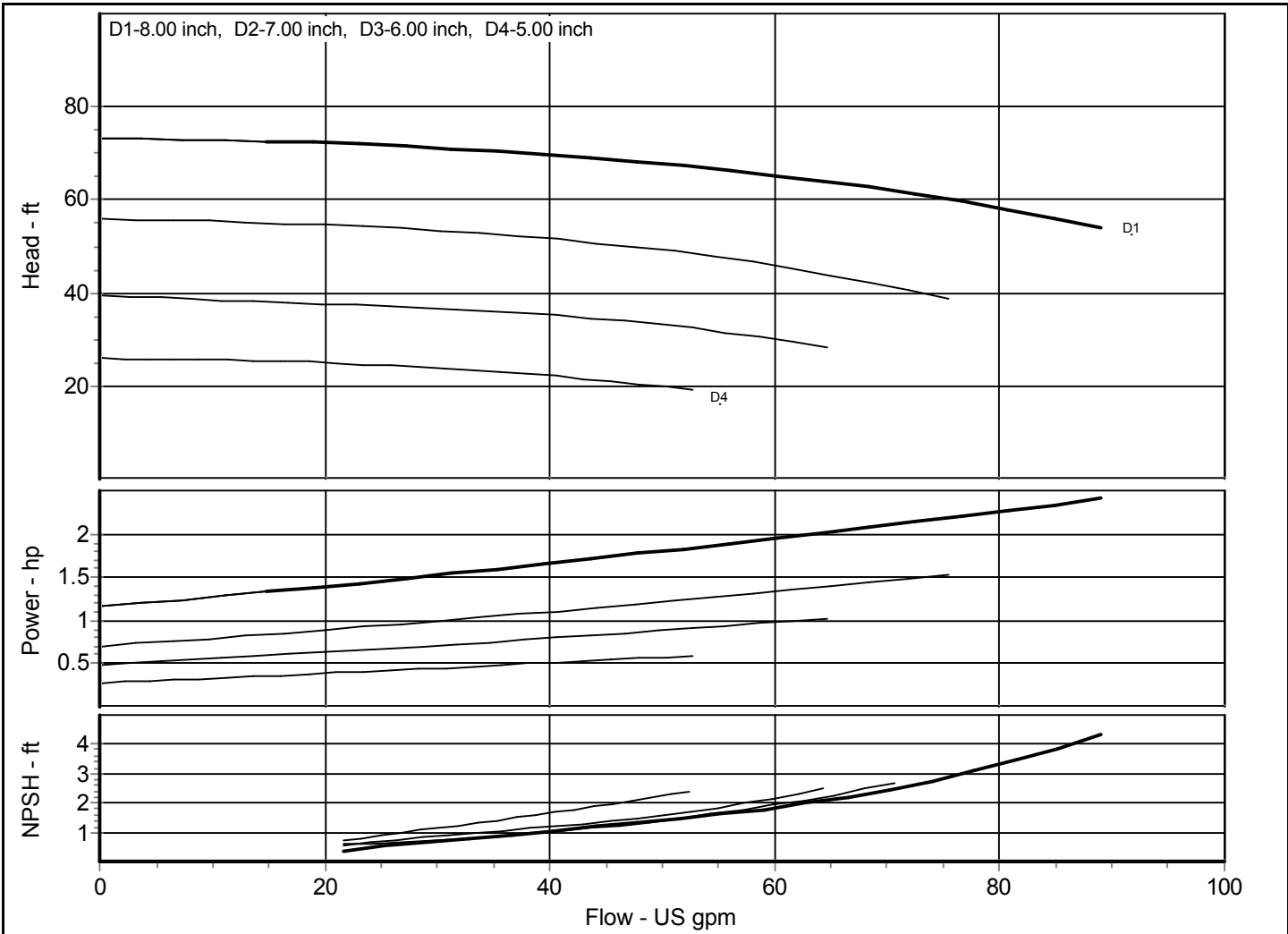


Peerless Pump Company, LLC  
 Indianapolis, Indiana 46207-7026

Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1x1.5-8 STP 8196</b>	Nom. Speed: <b>1750 RPM, 60 Hz Electric</b>	Duty Flow : US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8/5 inch</b>	Duty Head : ft
	Temperature: <b>68 °F</b>	Efficiency : %
	Viscosity: <b>1.009 cP</b>	Power Required : hp
Curve No.: <b>8196-005</b>	Sp. Gravity: <b>1.000</b>	NPSH Required : ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>2.41 hp</b>
Item : <b>1</b>		Closed Valve Pressure <b>73.206 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>	



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.



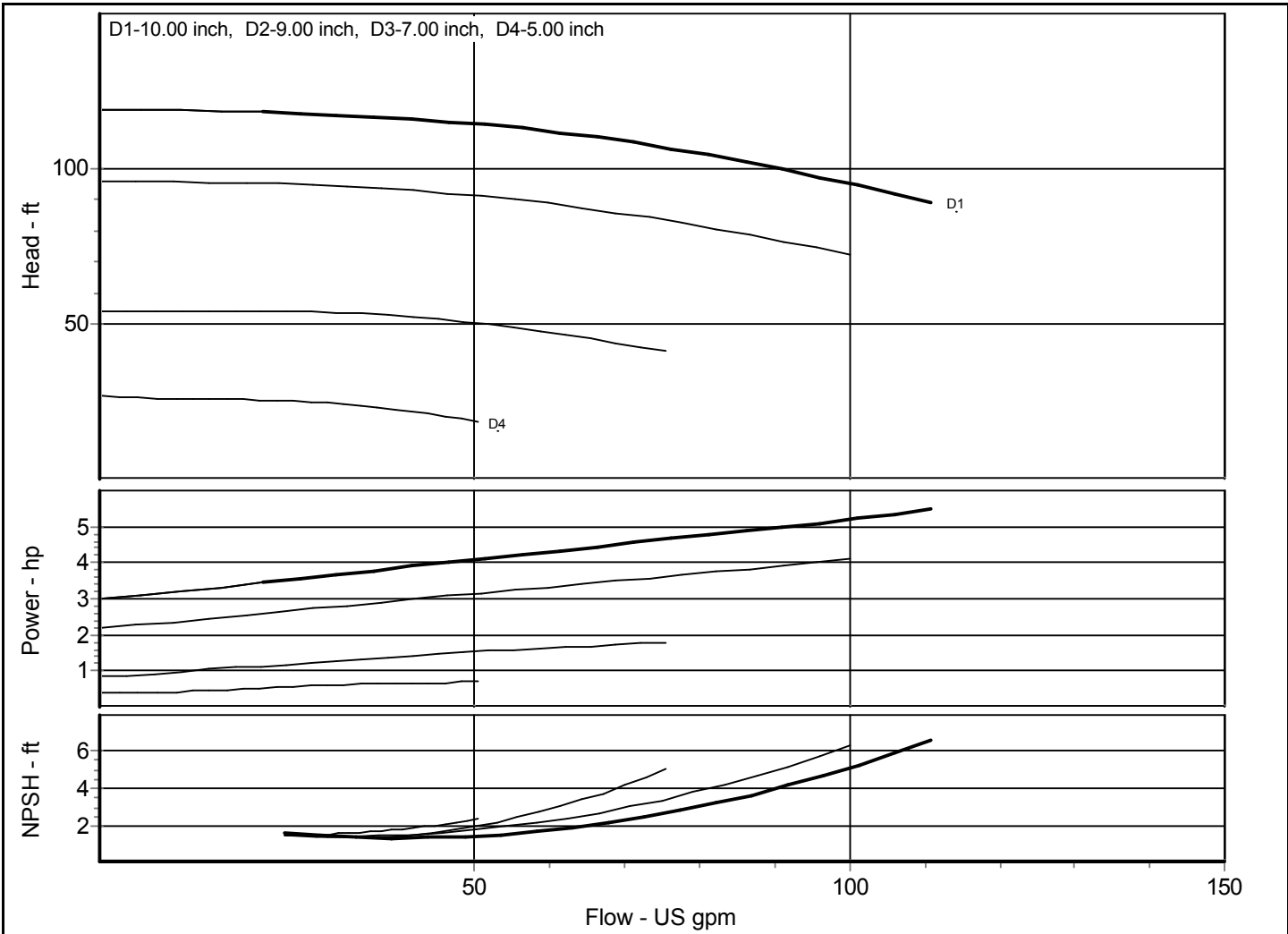


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1x2-10 MTP 8196</b>	Nom. Speed: <b>1750 RPM, 60 Hz Electric</b>	Duty Flow : <b>US gpm</b>
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/5 inch</b>	Duty Head : <b>ft</b>
	Temperature: <b>68 °F</b>	Efficiency : <b>%</b>
	Viscosity: <b>1.009 cP</b>	Power Required : <b>hp</b>
Curve No.: <b>8196-020</b>	Sp. Gravity: <b>1.000</b>	NPSH Required : <b>ft</b>
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>5.47 hp</b>
Item : <b>1</b>		Closed Valve Pressure <b>119.075 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>	



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.

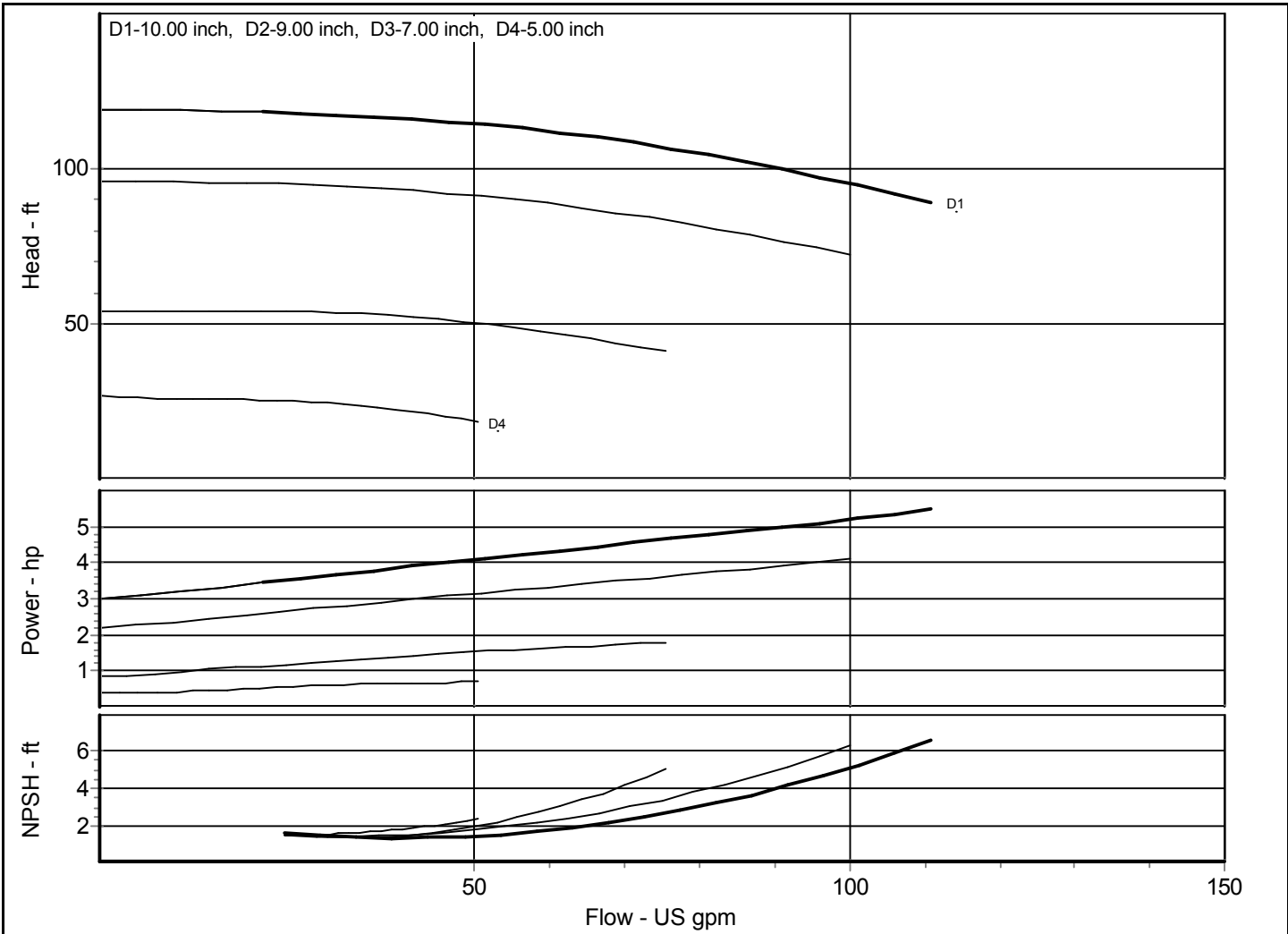


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1x2-10 LTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-020</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>5.47</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>119.075</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.



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Project :  
Quote No. :

Page No. :

Contact :  
Phone :  
Date :

Fax :

Pump Model: **Peerless - 1.5x3-6 STP 8196**  
Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750** RPM, 60 Hz Electric  
Impeller Dia.: **6.06/4** inch

Duty Flow : US gpm  
Duty Head : ft  
Efficiency : %

Temperature: **68** °F  
Viscosity: **1.009** cP

Power Required : hp  
NPSH Required : ft

Curve No.: **8196-003**

Sp. Gravity: **1.000**

Peak Power: **1.56** hp

Impeller No.

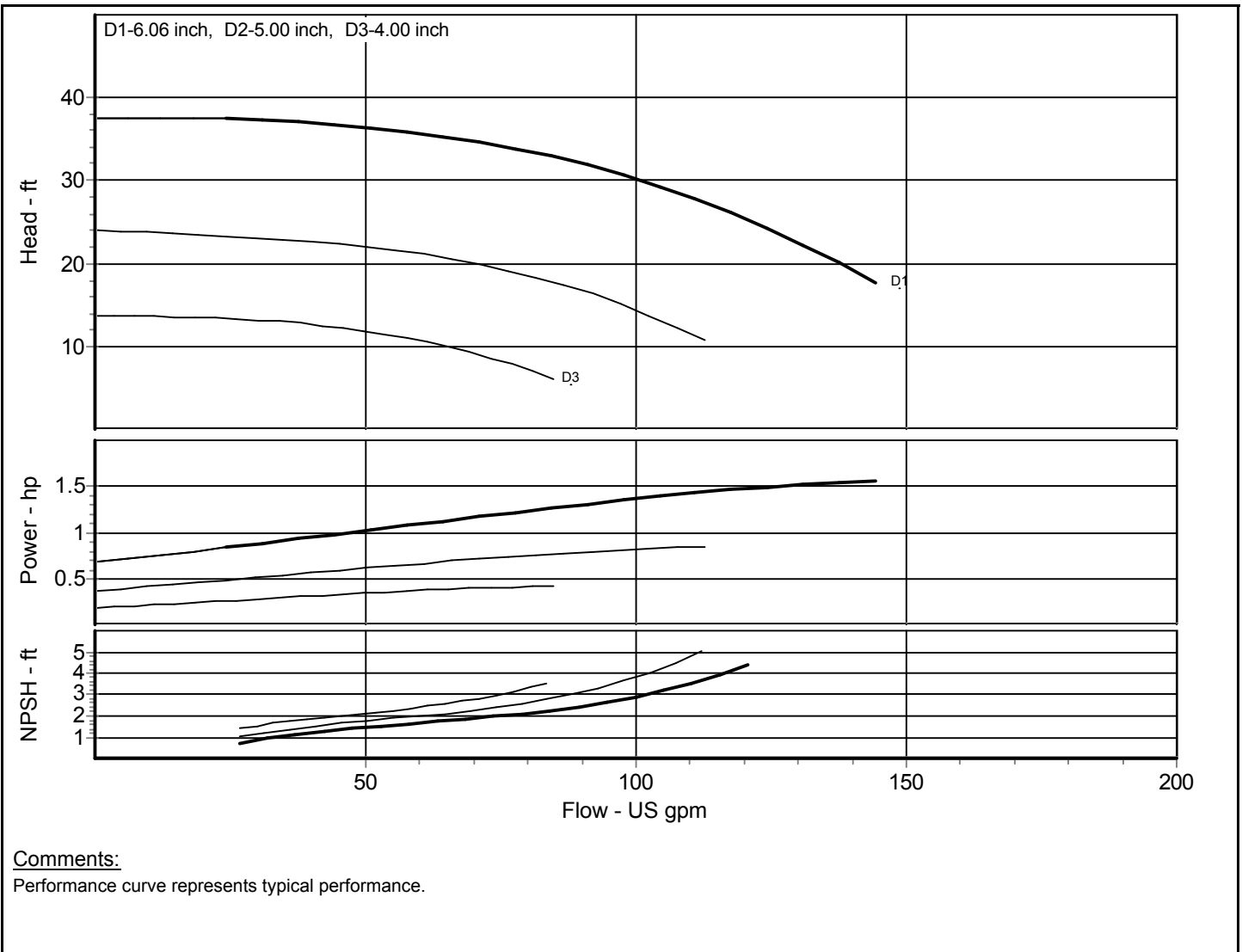
Fluid: **Water**

Closed Valve Pressure **37.638** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



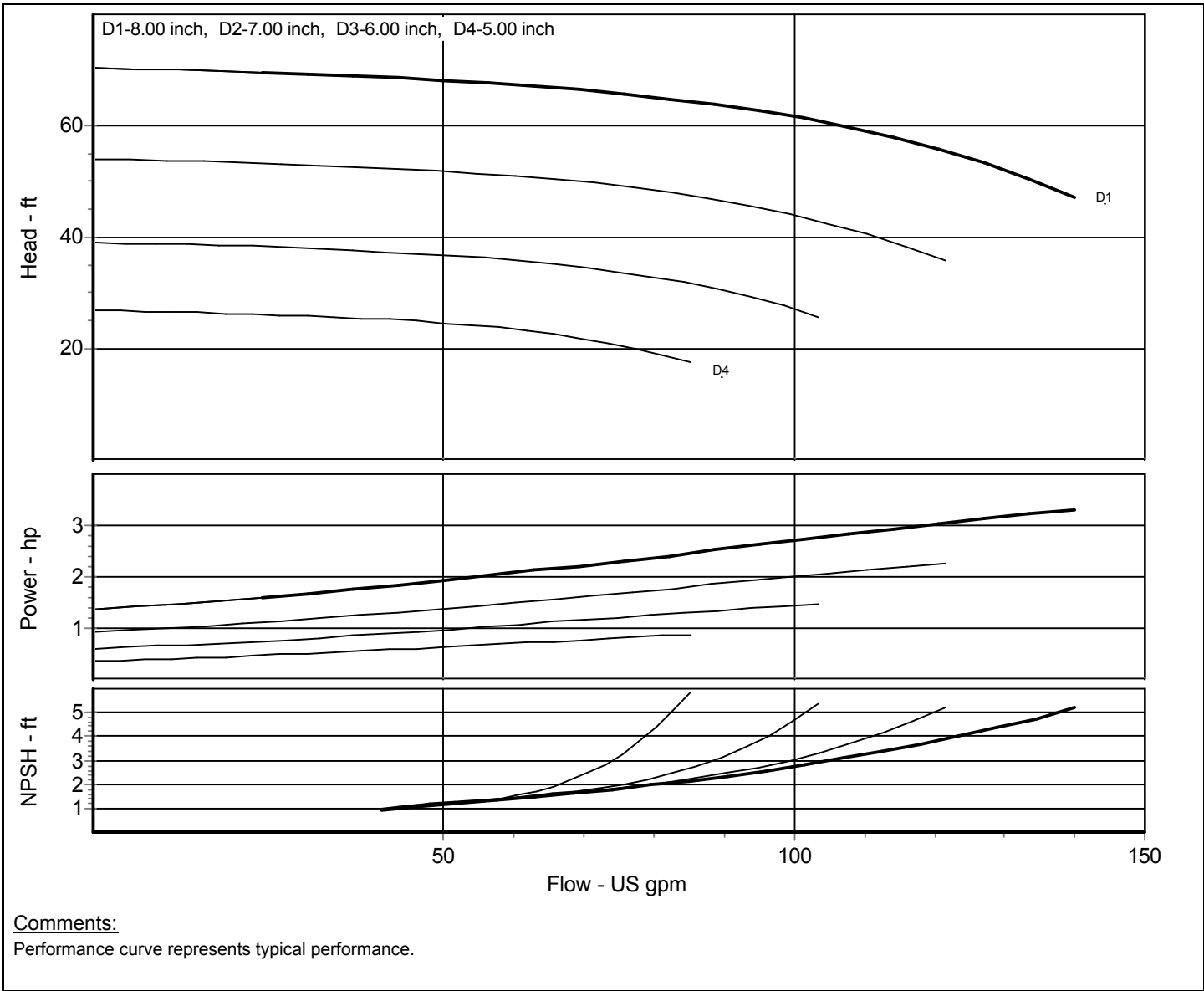


Customer :

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Indianapolis, Indiana 46207-7026

<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 1.5x3-8 STP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8/5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-007</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>3.31</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>70.437</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.



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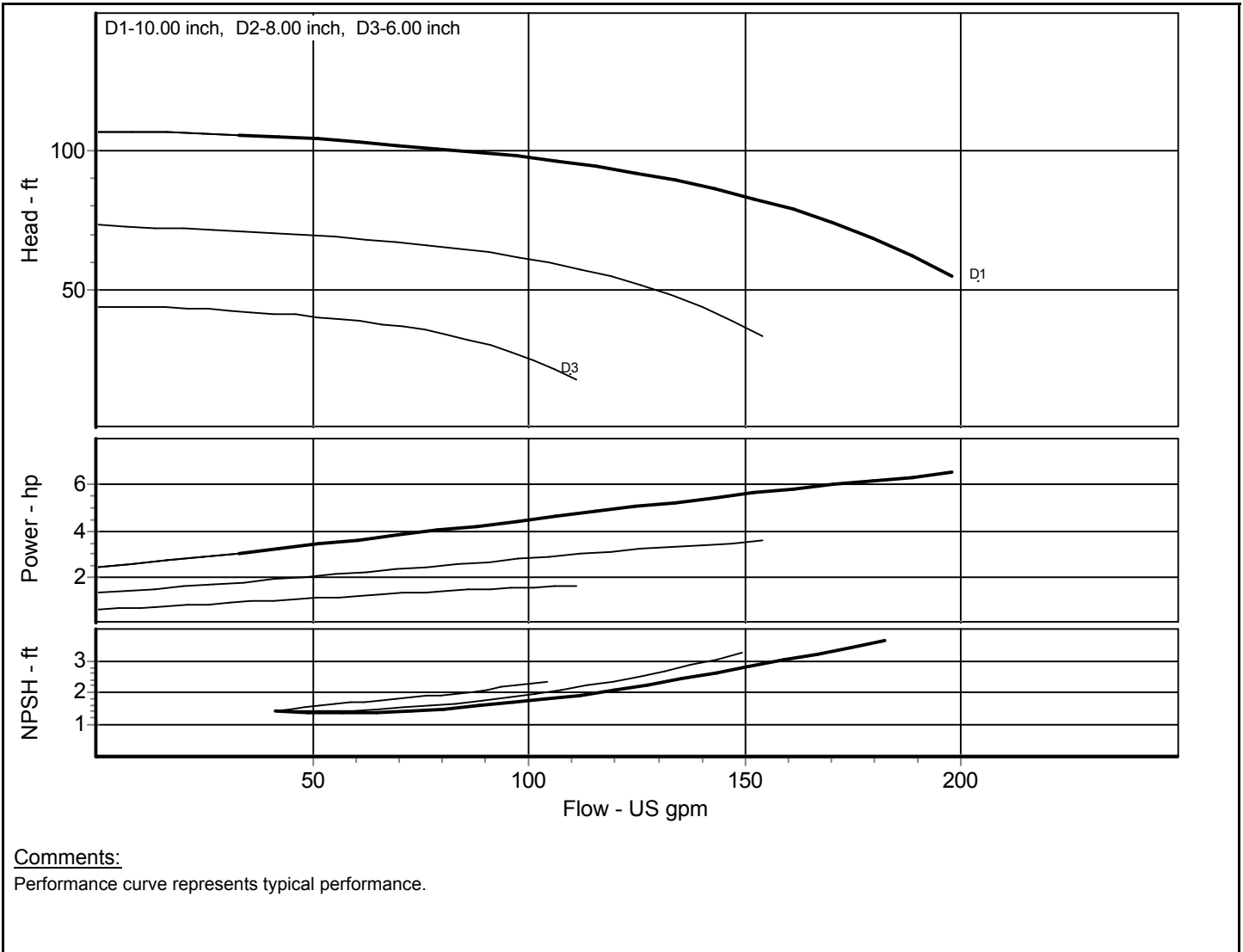
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 1.5x3-10 MTP 8196</b>	Nom. Speed: <b>1750 RPM, 60 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-022</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>6.5 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>106.975 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





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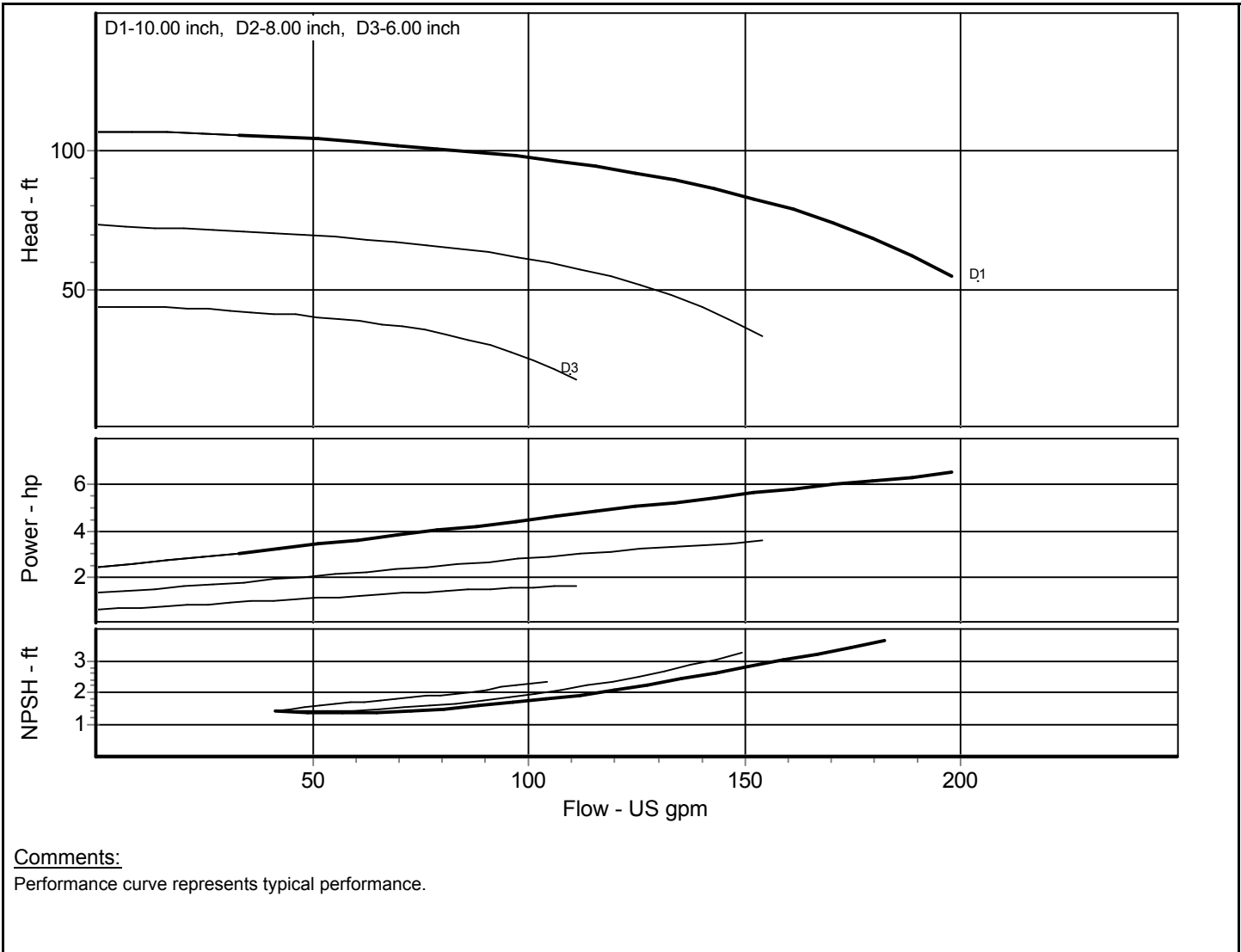
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model:	<b>Peerless - 1.5x3-10 LTP 8196</b>	Nom. Speed:	<b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type:	<b>8196 - ANSI Standard End Suction</b>	Impeller Dia.:	<b>10/6</b> inch	Duty Head :	ft
		Temperature:	<b>68</b> °F	Efficiency :	%
		Viscosity:	<b>1.009</b> cP	Power Required :	hp
Curve No.:	<b>8196-022</b>	Sp. Gravity:	<b>1.000</b>	NPSH Required :	ft
Impeller No.		Fluid:	<b>Water</b>	Peak Power:	<b>6.5</b> hp
Item :	<b>1</b>			Closed Valve Pressure	<b>106.975</b> ft
Your Ref.:		Tolerance :	<b>Hyd Inst-Peerless Std</b>		



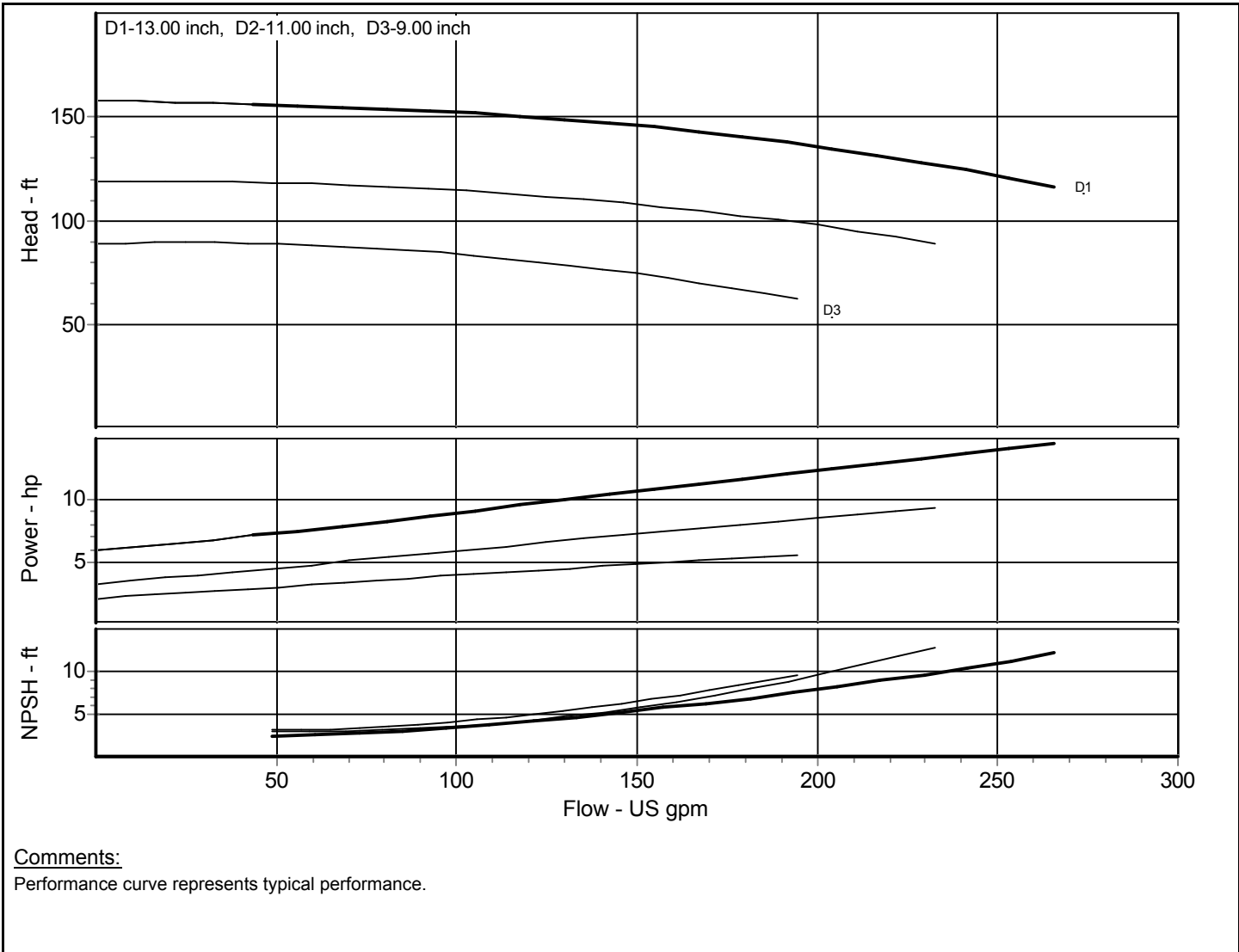


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1.5x3-13 MTP 8196** Nom. Speed: **1750** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/9** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Curve No.: **8196-030** Sp. Gravity: **1.000** Peak Power: **14.55** hp  
 Impeller No. Fluid: **Water** Closed Valve Pressure **157.94** ft  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



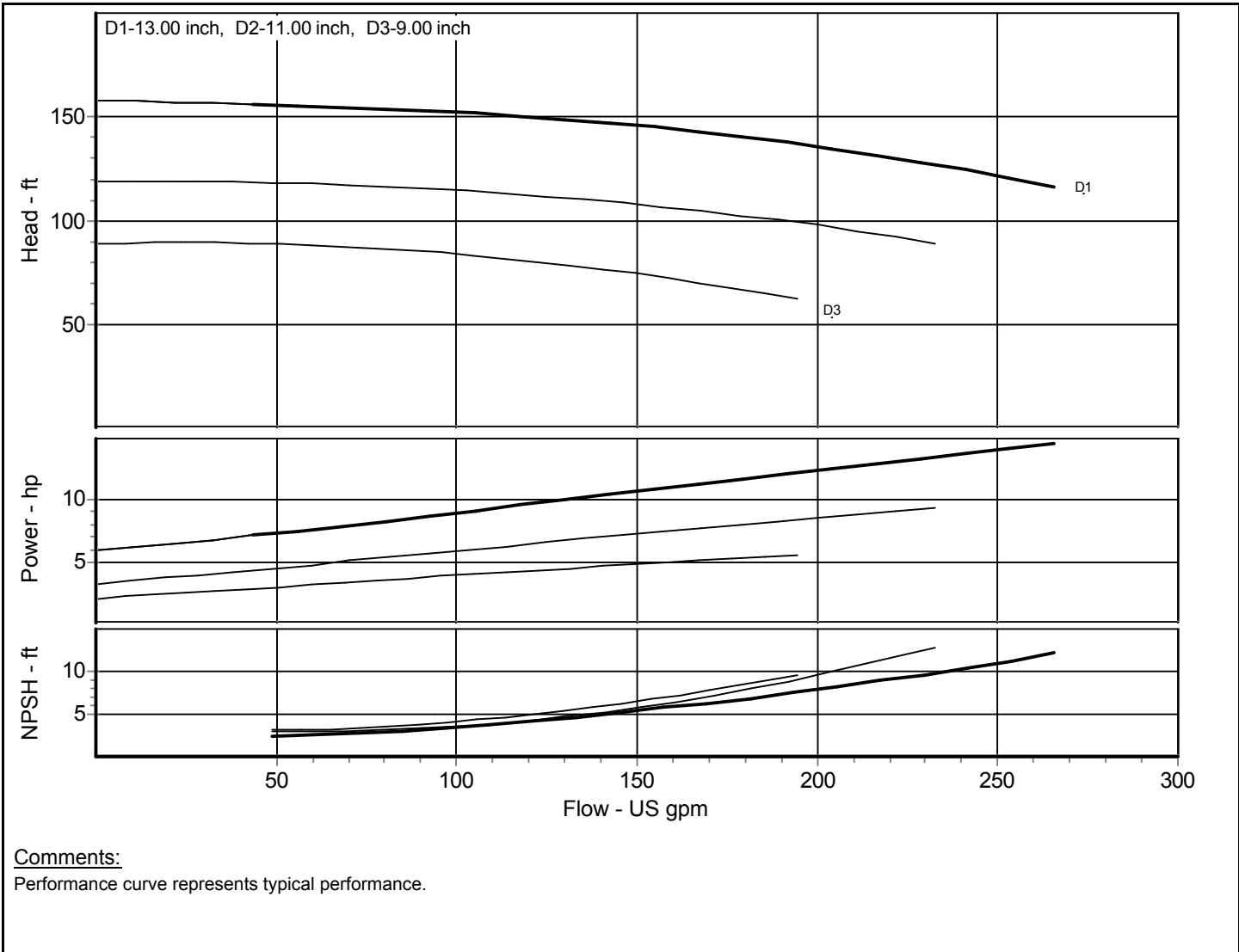


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1.5x3-13 LTP 8196** Nom. Speed: **1750** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/9** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Curve No.: **8196-030** Sp. Gravity: **1.000** Peak Power: **14.55** hp  
 Impeller No. Fluid: **Water** Closed Valve Pressure **157.94** ft  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**







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Customer :

Project :  
 Quote No. :

Page No. : 1

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-6 STP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750** RPM, 60 Hz Electric  
 Impeller Dia.: **6.06/4** inch

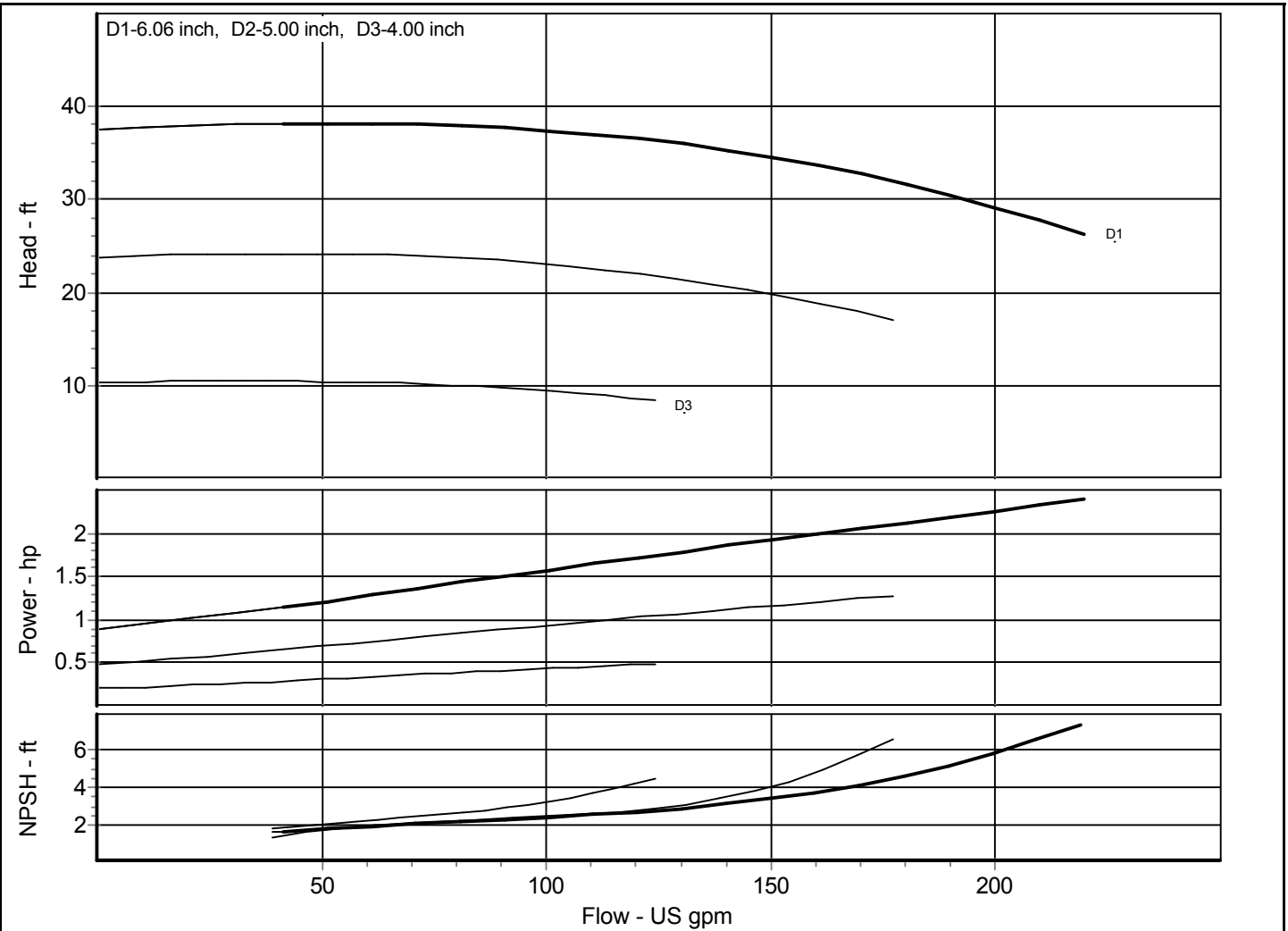
Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**  
 Fluid: **Water**

Power Required : hp  
 NPSH Required : ft  
 Peak Power: **2.39** hp  
 Closed Valve Pressure **37.63** ft

Curve No.: **8196-010**  
 Impeller No.  
 Item : **1**  
 Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

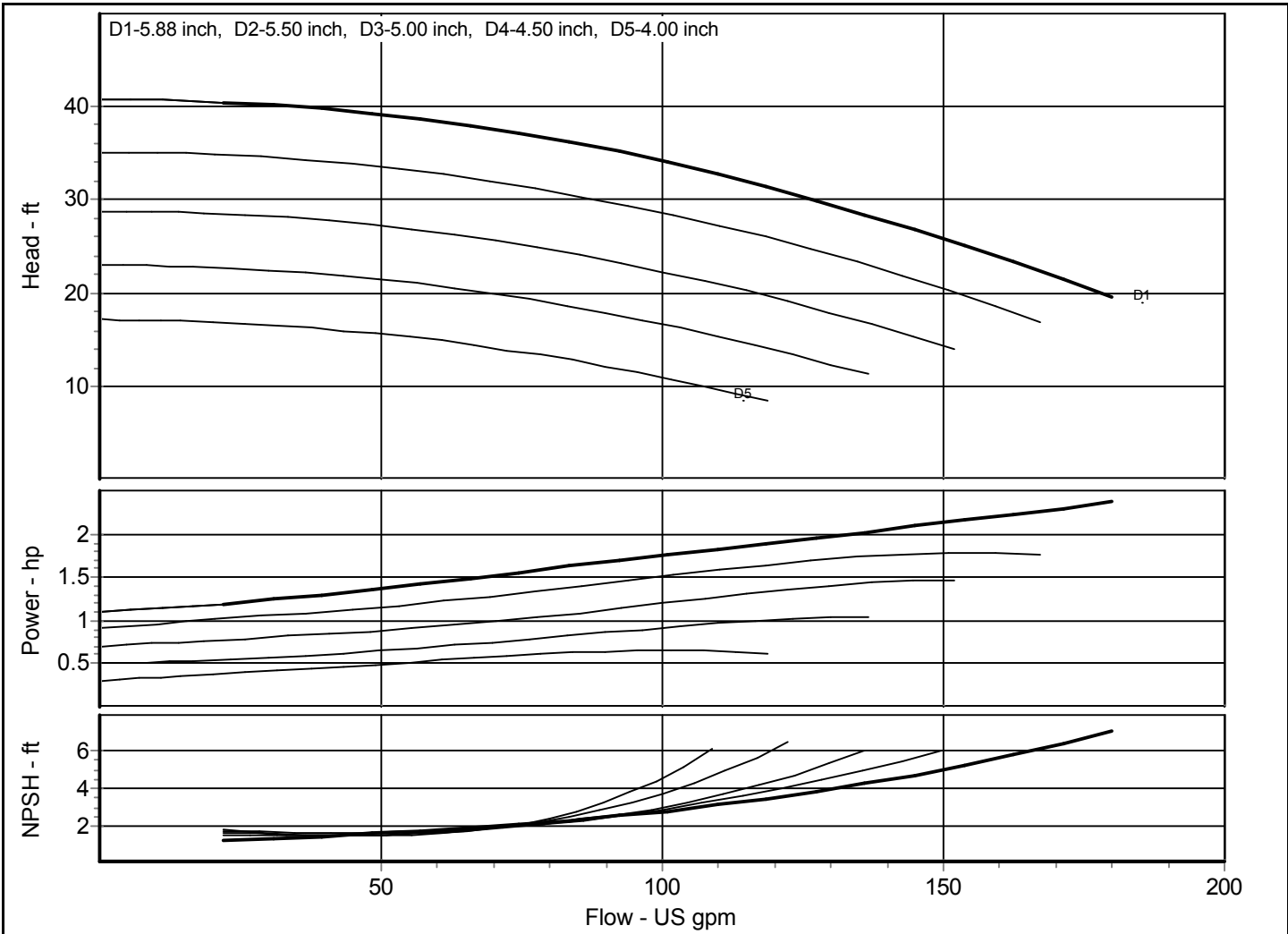


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-6 MTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>5.88/4</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-011</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>2.37</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>40.8</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

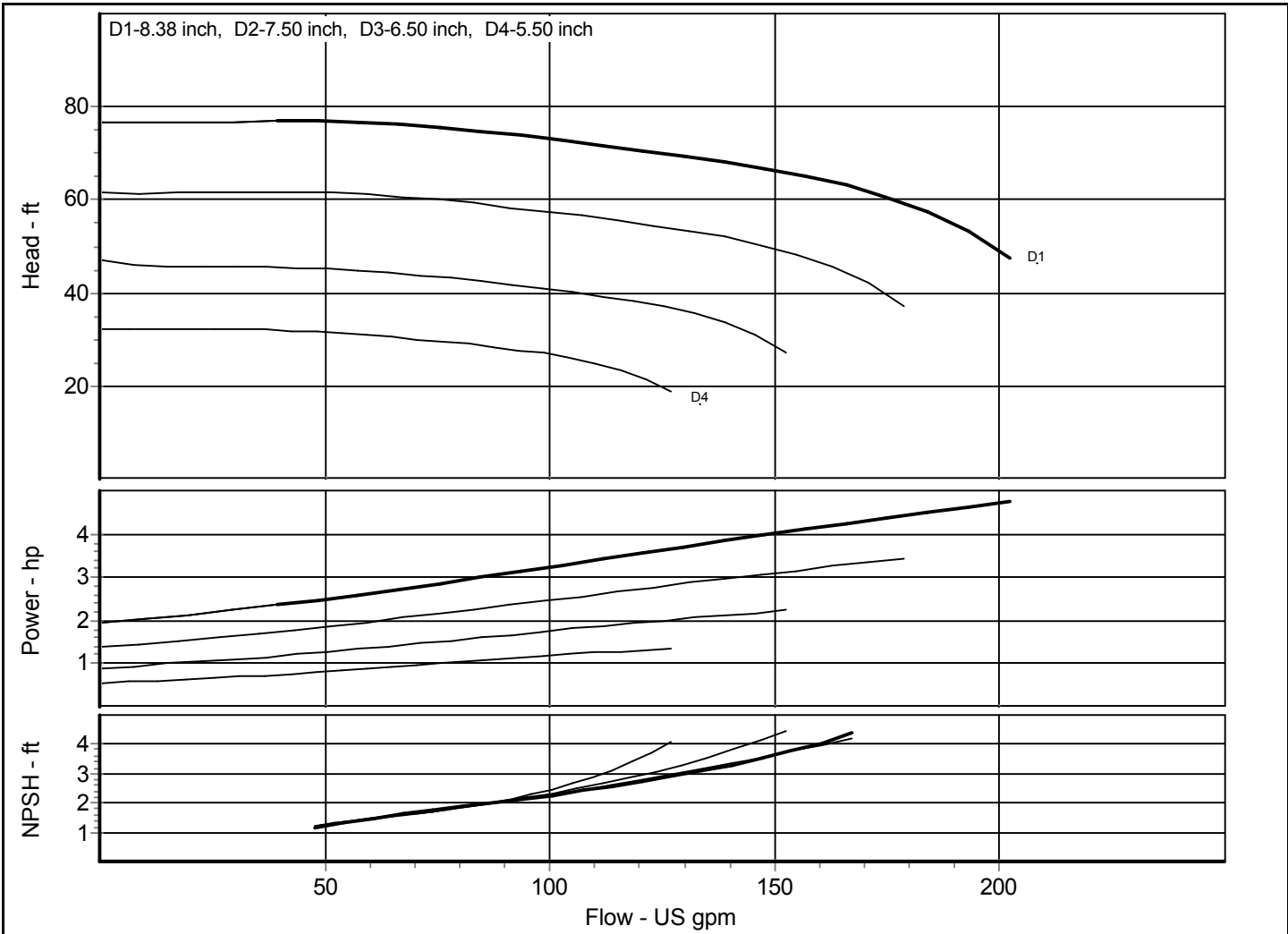


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-8 MTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8.38/5.5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-014</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>4.75</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>76.813</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

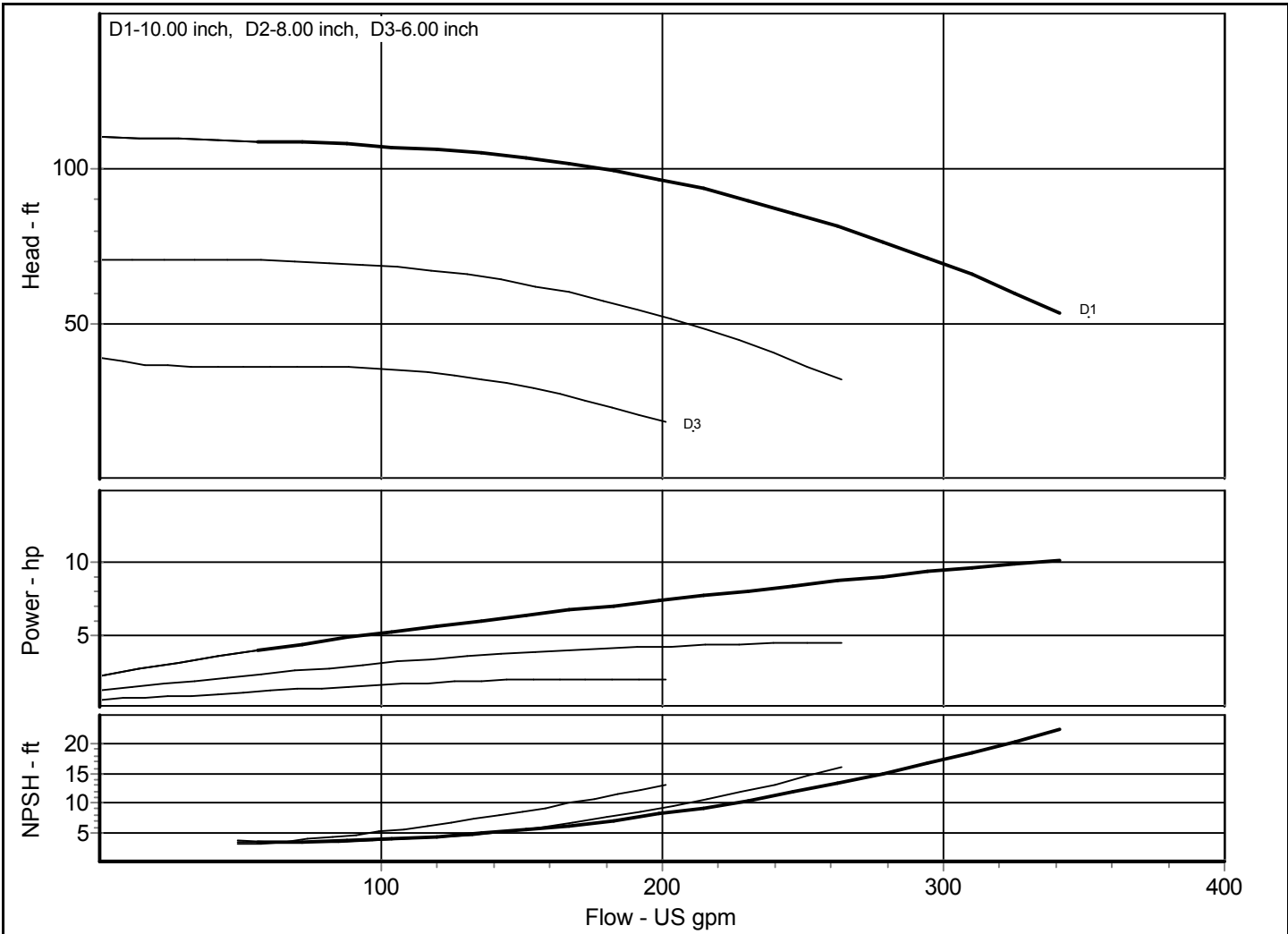


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-10 MTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-024</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>10.23</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>110.545</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-10 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750** RPM, 60 Hz Electric  
 Impeller Dia.: **10/6** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-024**

Sp. Gravity: **1.000**

Peak Power: **10.23** hp

Impeller No.

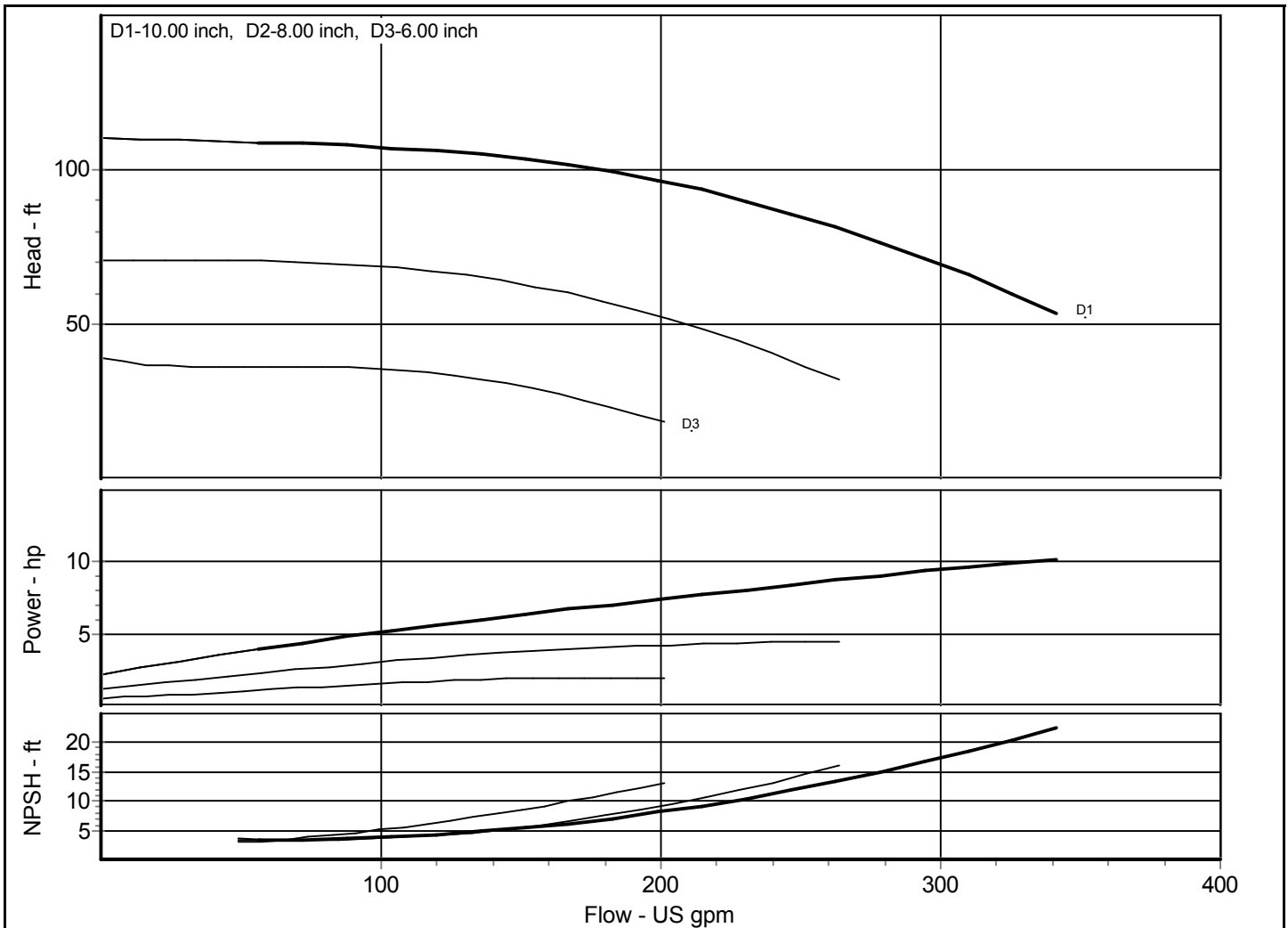
Fluid: **Water**

Closed Valve Pressure **110.545** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



**Comments:**

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-13 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750** RPM, 60 Hz Electric  
 Impeller Dia.: **13/9** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-033**

Fluid: **Water**

Peak Power: **21.94** hp

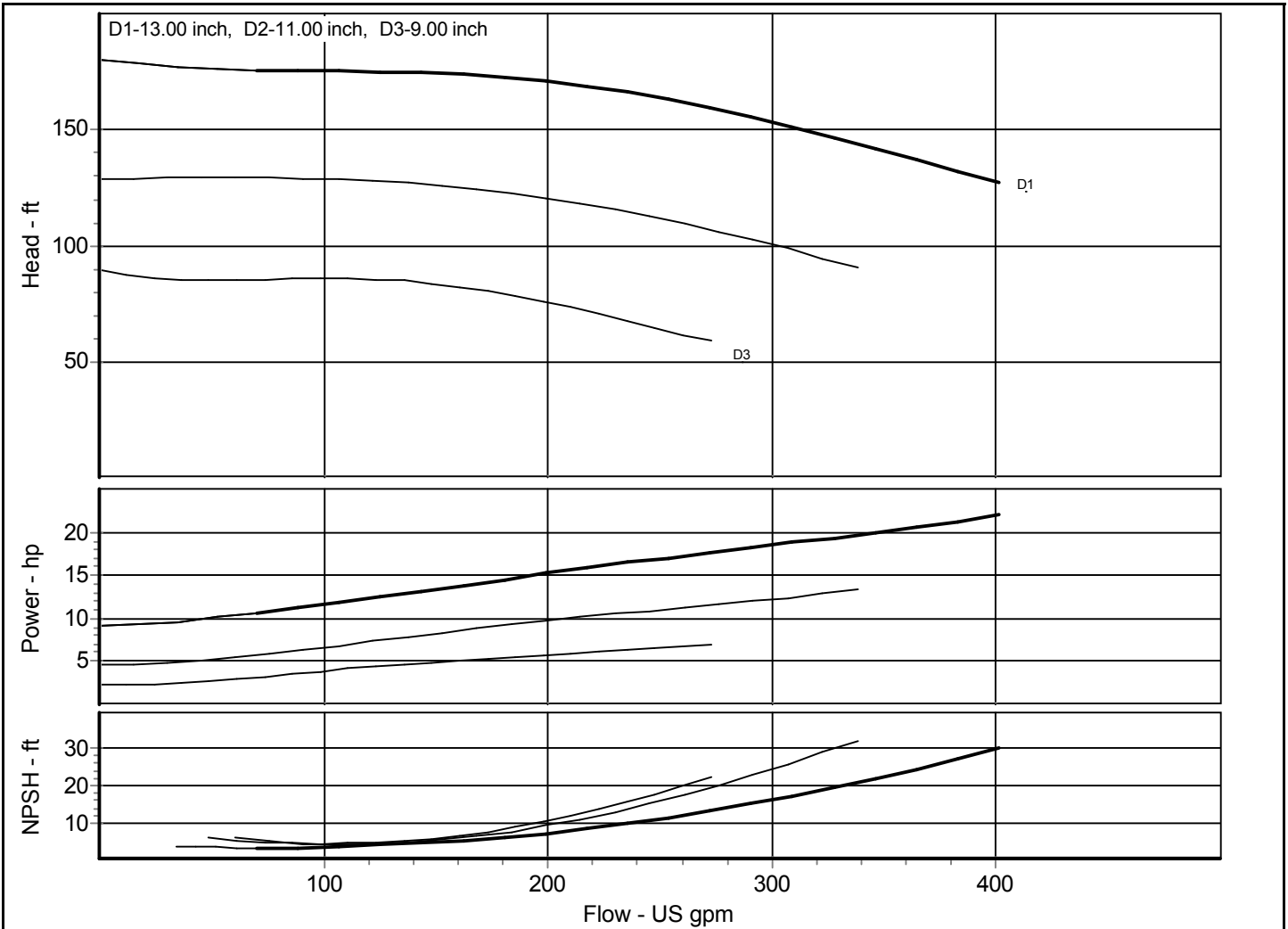
Impeller No.

Closed Valve Pressure **180.132** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-13 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750** RPM, 60 Hz Electric  
 Impeller Dia.: **13/9** inch

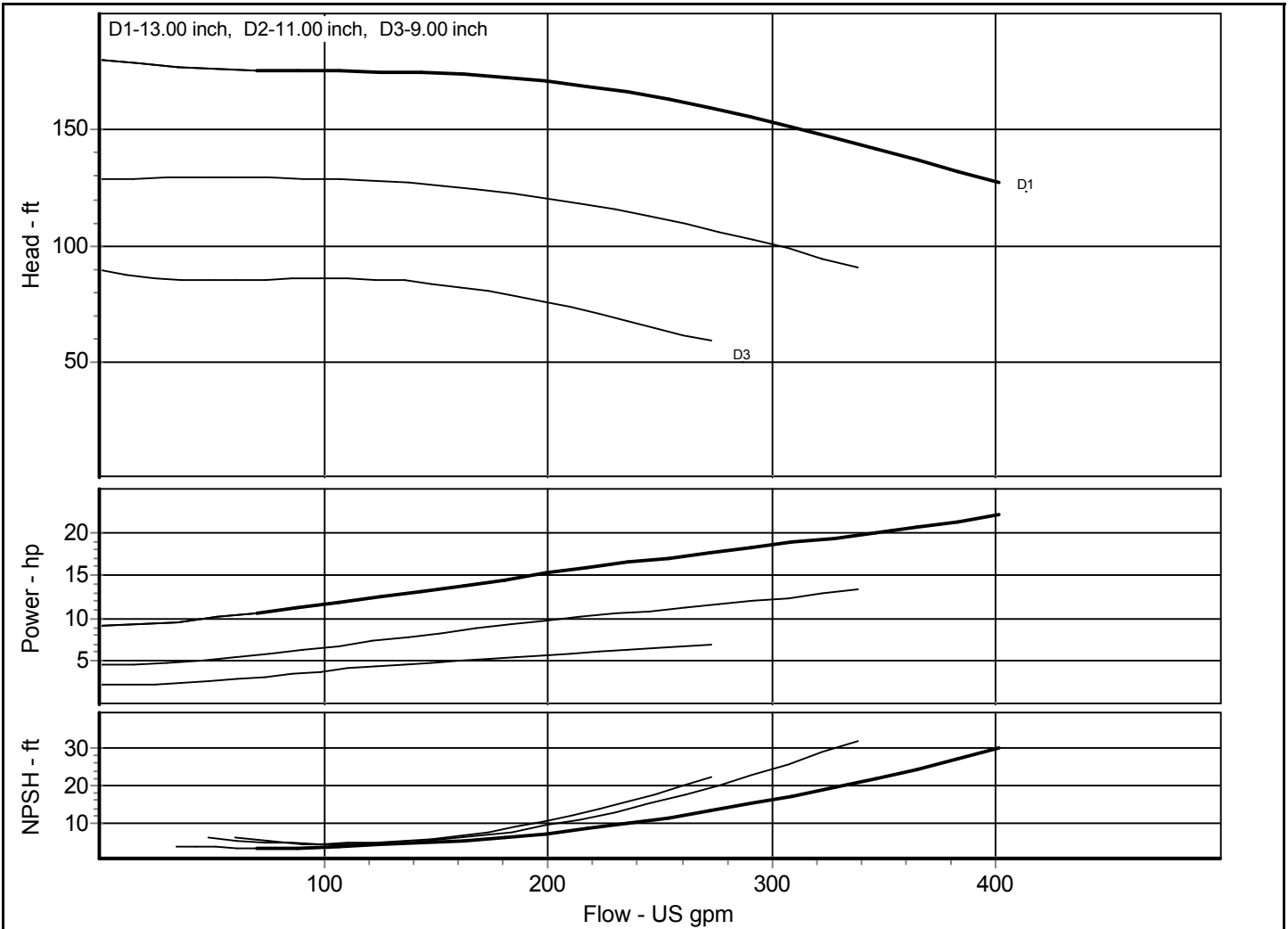
Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**  
 Fluid: **Water**

Power Required : hp  
 NPSH Required : ft  
 Peak Power: **21.94** hp  
 Closed Valve Pressure **180.132** ft

Curve No.: **8196-033**  
 Impeller No.  
 Item : **1**  
 Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

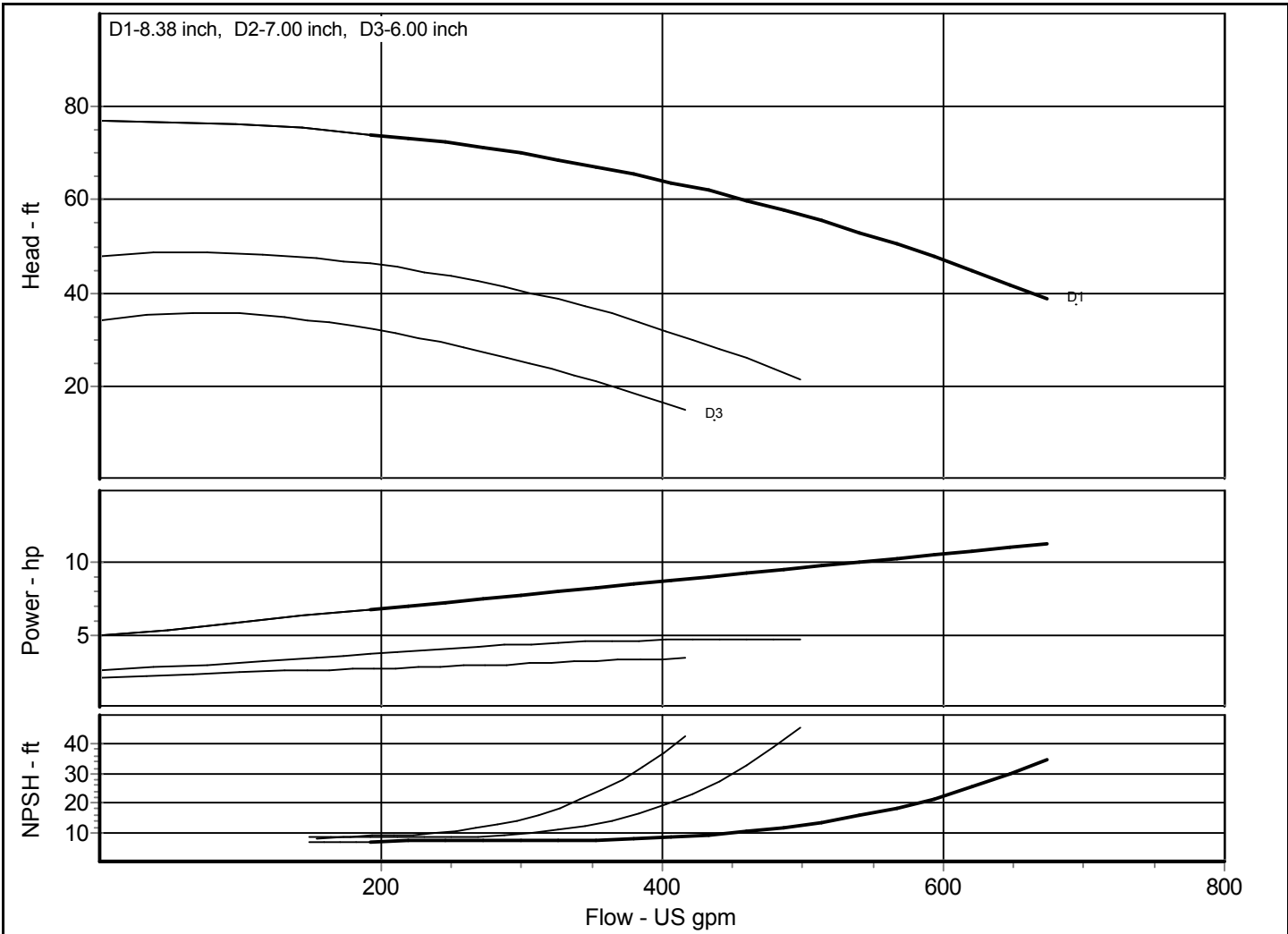


Peerless Pump Company, LLC  
 Indianapolis, Indiana 46207-7026

Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 3x4-8 MTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8.38/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-015</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>11.26</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>76.997</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 3x4-8G MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750** RPM, 60 Hz Electric  
 Impeller Dia.: **8.38/5.5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-018**

Fluid: **Water**

Peak Power: **7.37** hp

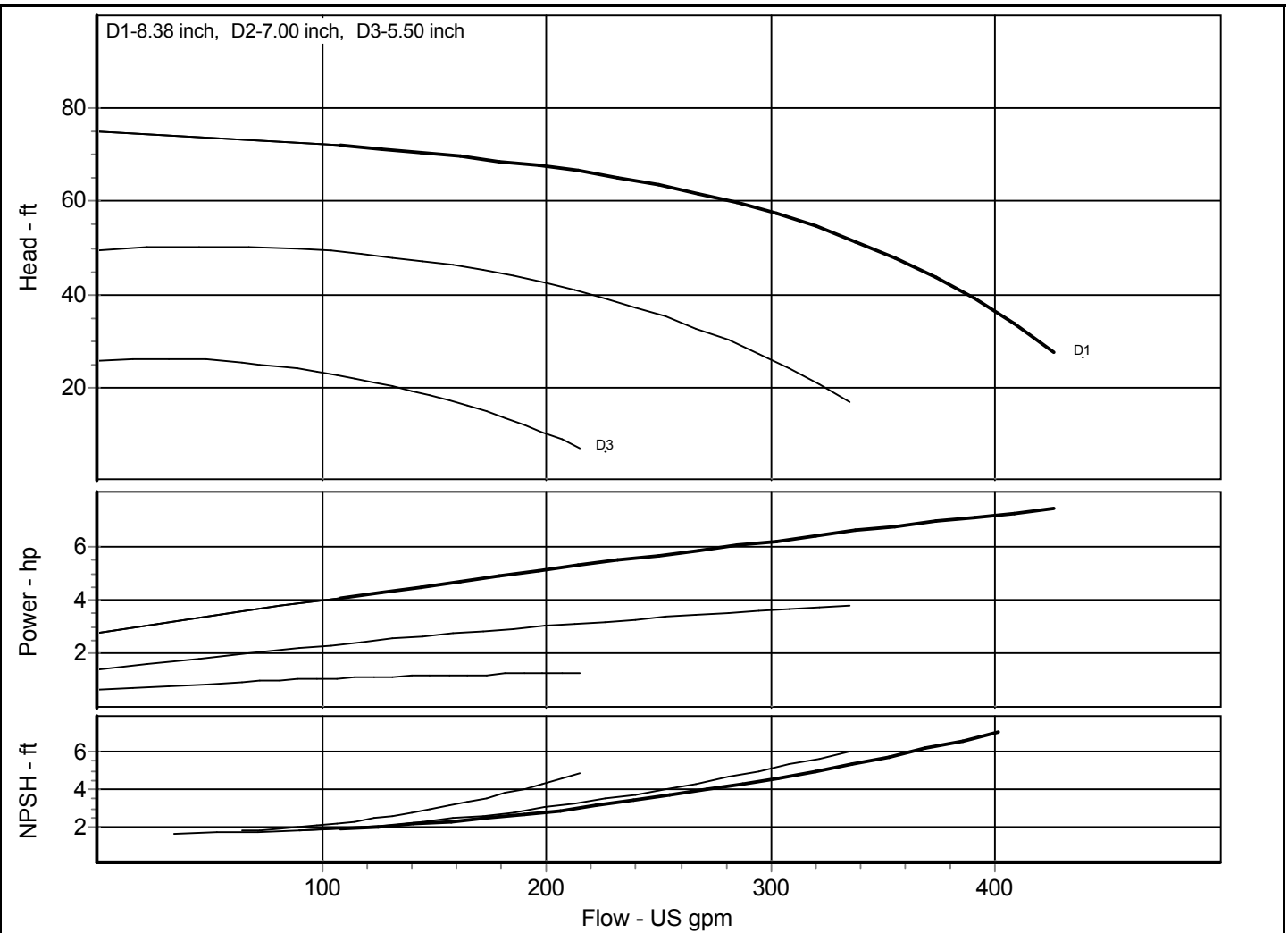
Impeller No.

Closed Valve Pressure **75.019** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 3x4-10 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750 RPM, 60 Hz Electric**  
 Impeller Dia.: **10/6 inch**

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68 °F**  
 Viscosity: **1.009 cP**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-026**

Sp. Gravity: **1.000**

Peak Power: **12.19 hp**

Impeller No.

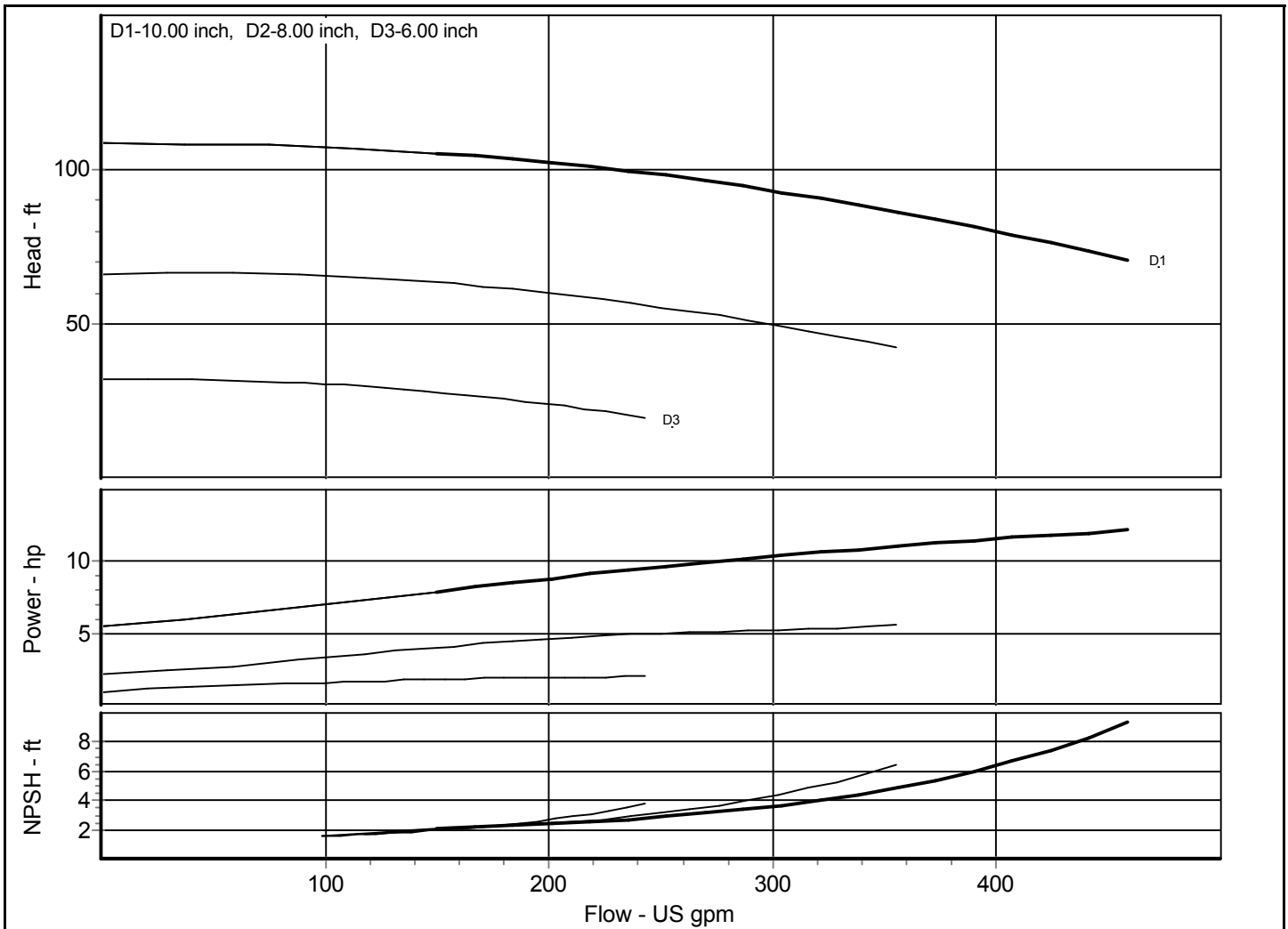
Fluid: **Water**

Closed Valve Pressure **108.382 ft**

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 3x4-10 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750 RPM, 60 Hz Electric**  
 Impeller Dia.: **10/6 inch**

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68 °F**  
 Viscosity: **1.009 cP**  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-026**

Fluid: **Water**

Peak Power: **12.19 hp**

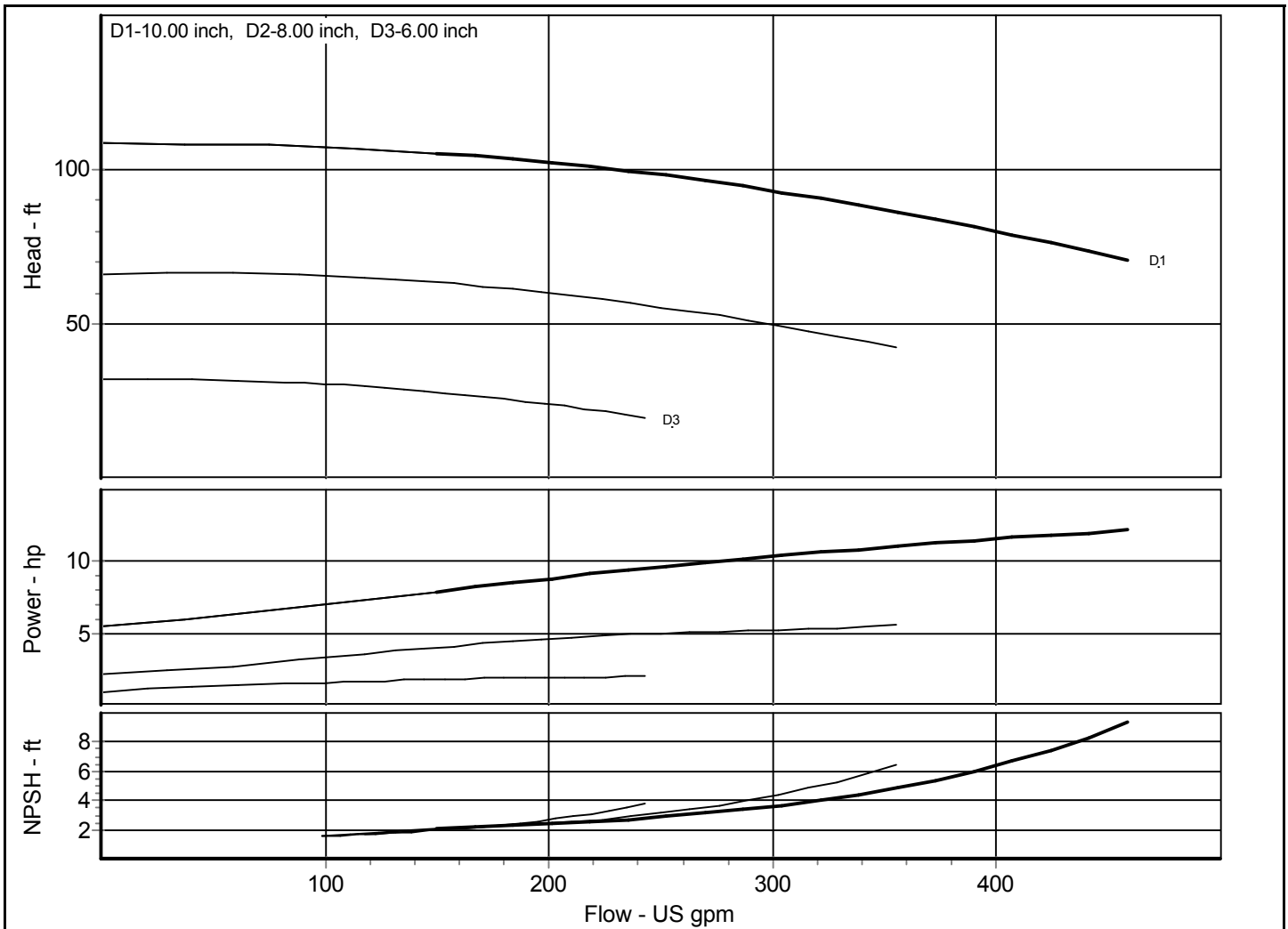
Impeller No.

Closed Valve Pressure **108.382 ft**

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



Peerless Pump Company, LLC  
 Indianapolis, Indiana 46207-7026

Customer :

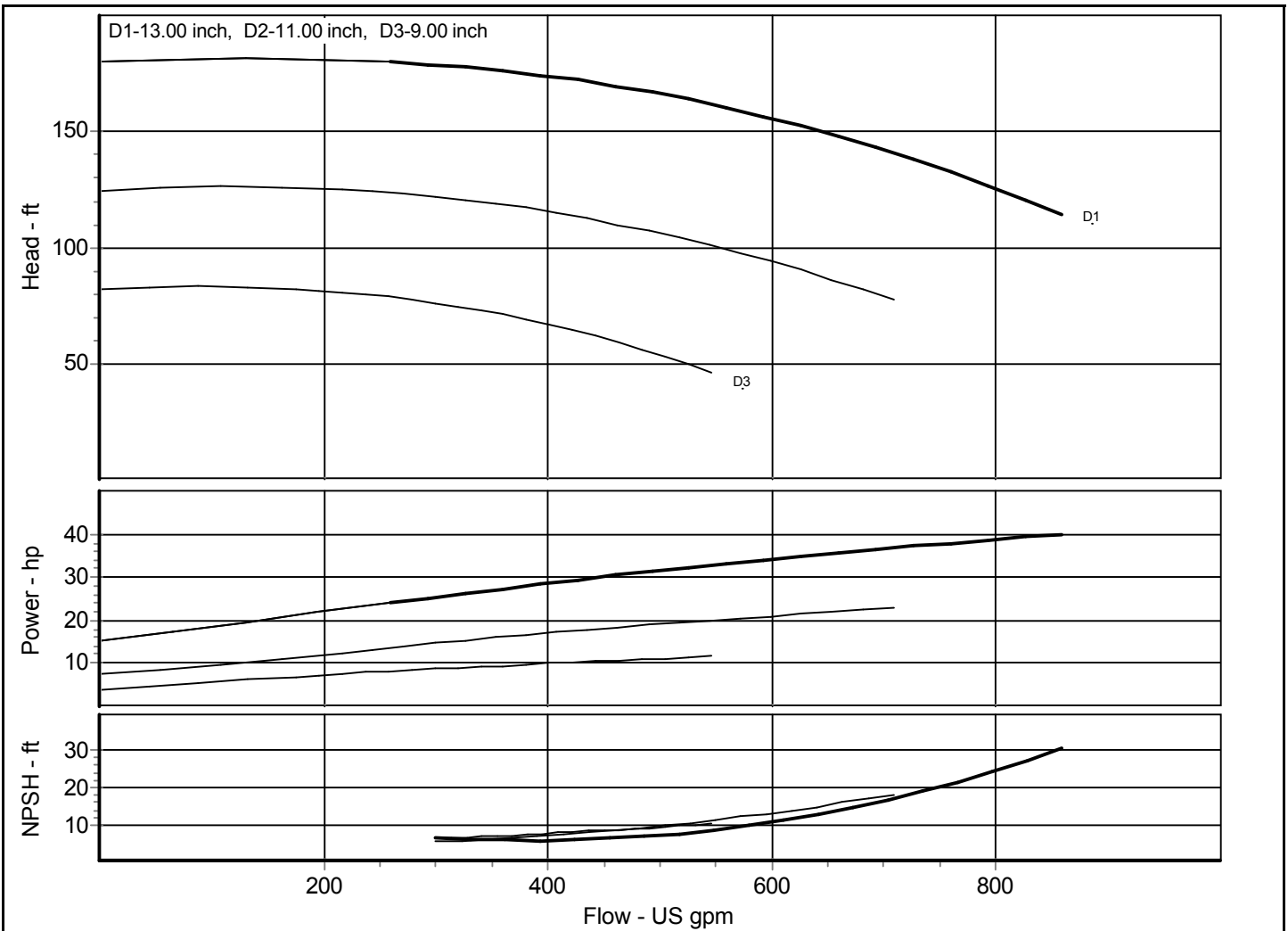
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 3x4-13 5V MTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-036</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>40</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>179.992</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.



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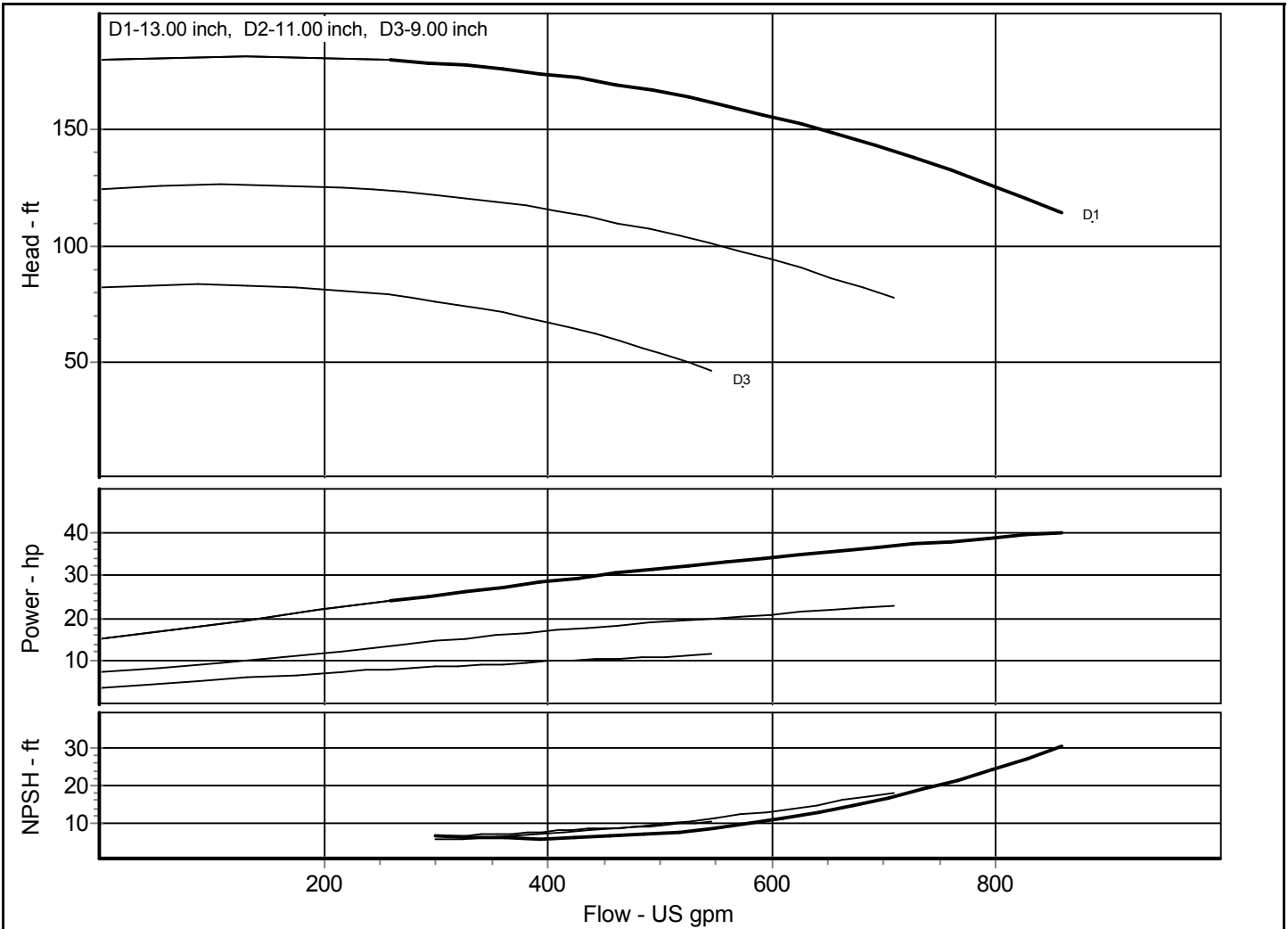
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 3x4-13 5V LTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-036</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>40</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>179.992</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.



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Customer :

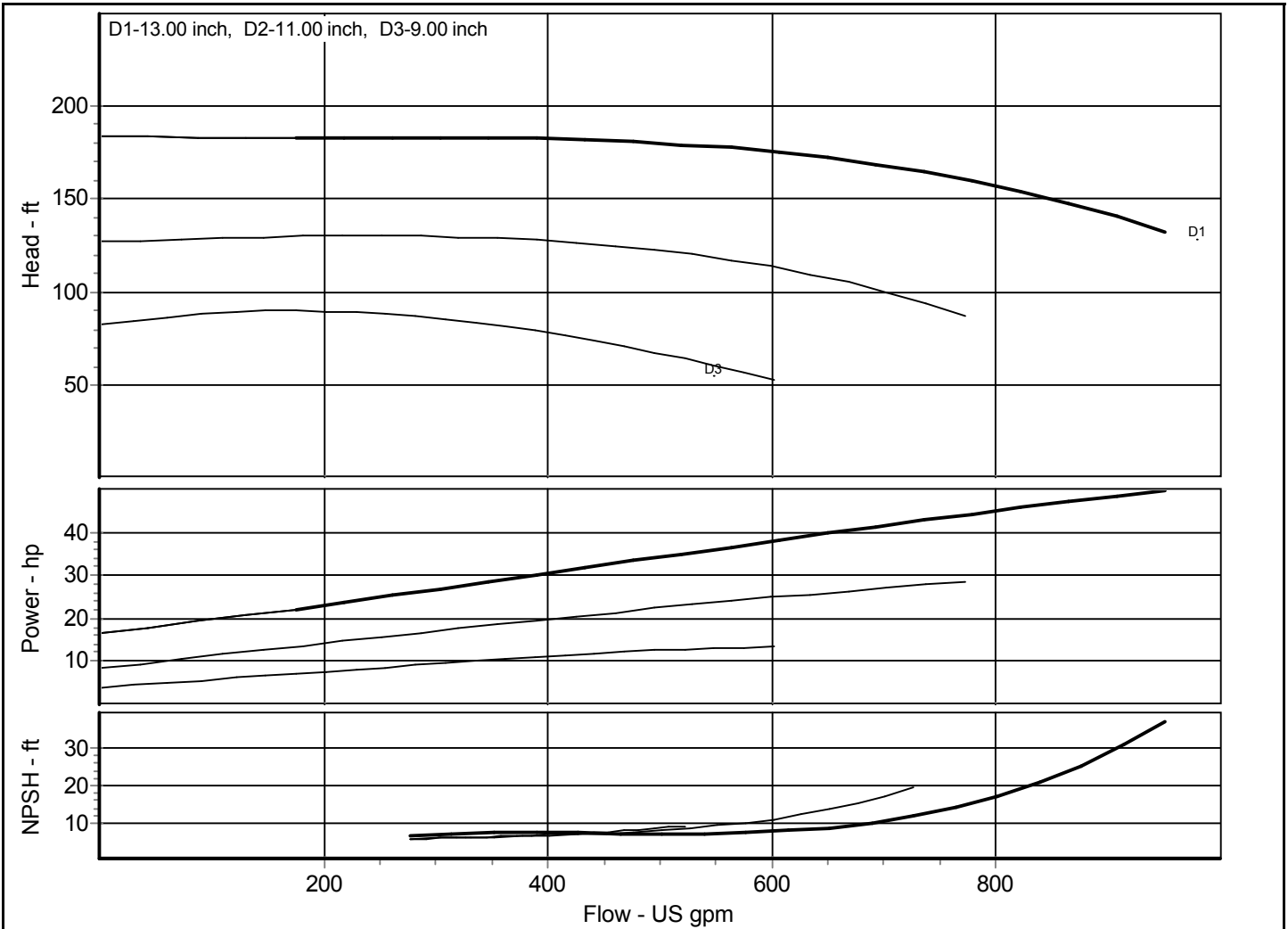
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 3x4-13 6V MTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-039</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>49.41</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>183.974</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.

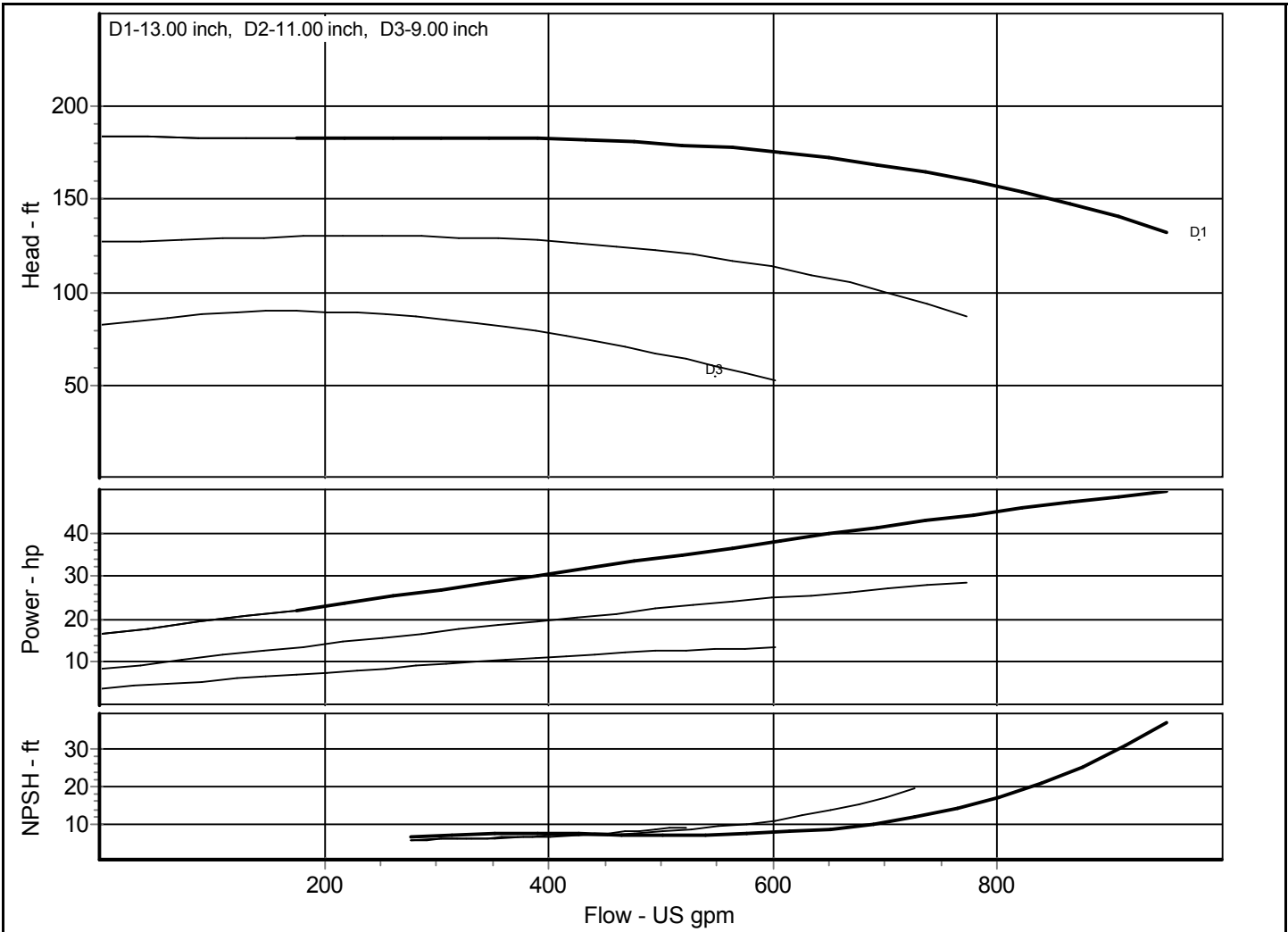


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 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 3x4-13 6V LTP 8196** Nom. Speed: **1750** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/9** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **49.41** hp  
 Fluid: **Water** Closed Valve Pressure **183.974** ft  
 Curve No.: **8196-039**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.

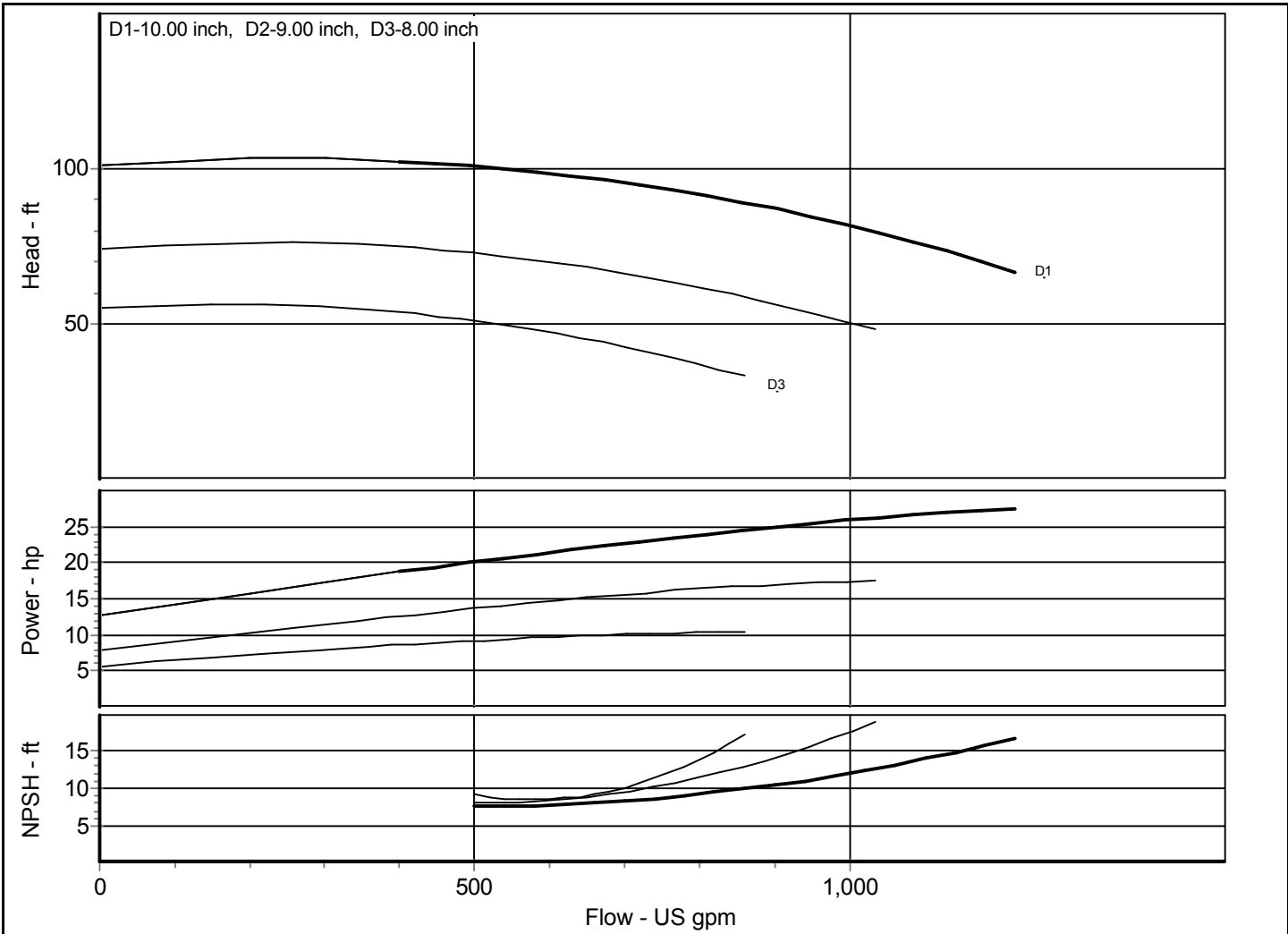


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 4x6-10 MTP 8196</b>	Nom. Speed: <b>1750 RPM, 60 Hz Electric</b>	Duty Flow : <b>US gpm</b>
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/8 inch</b>	Duty Head : <b>ft</b>
	Temperature: <b>68 °F</b>	Efficiency : <b>%</b>
	Viscosity: <b>1.009 cP</b>	Power Required : <b>hp</b>
Curve No.: <b>8196-027</b>	Sp. Gravity: <b>1.000</b>	NPSH Required : <b>ft</b>
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>27.58 hp</b>
Item : <b>1</b>		Closed Valve Pressure <b>101.002 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>	



Comments:  
 Performance curve represents typical performance.



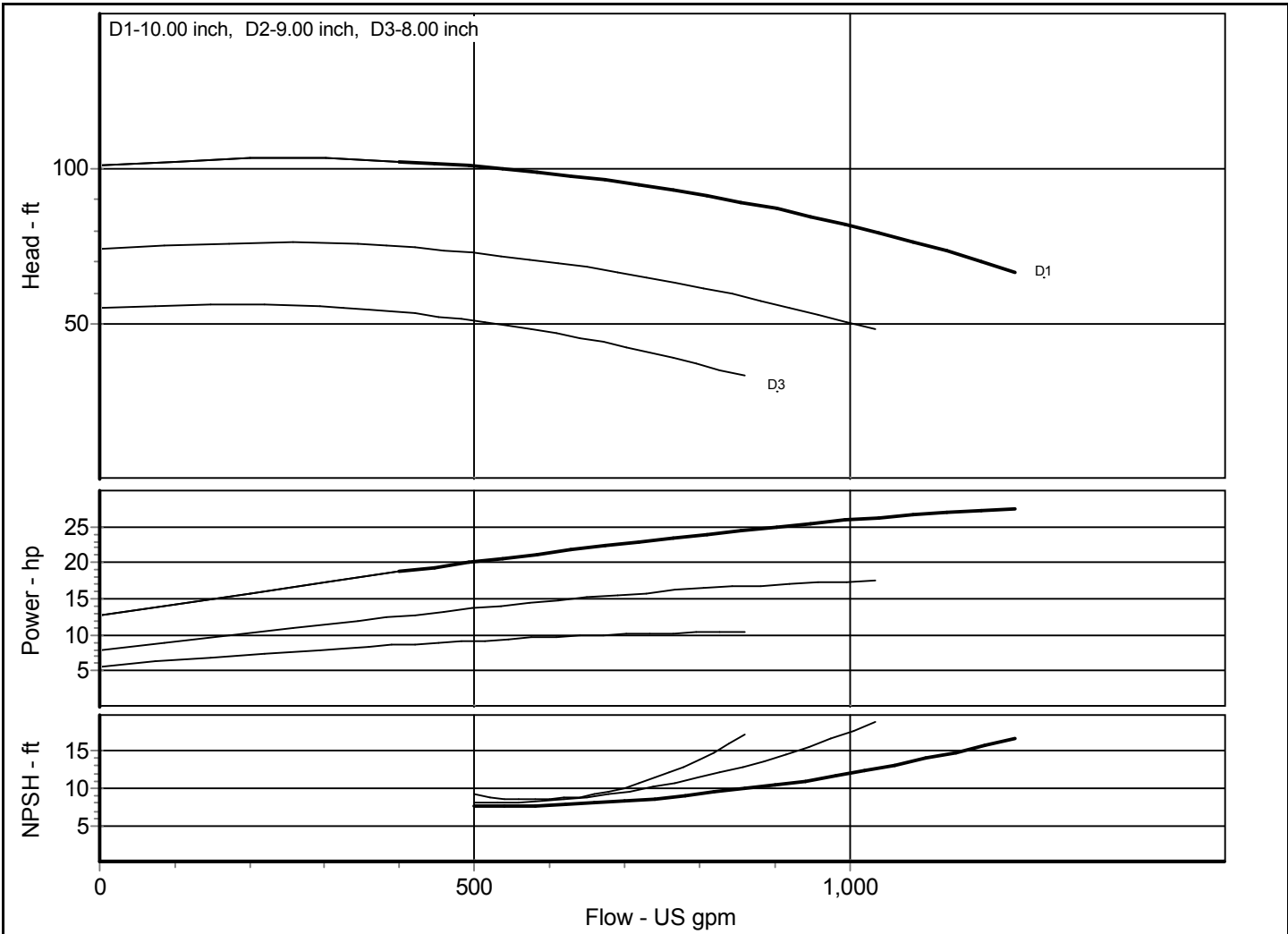


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 4x6-10 LTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/8</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-027</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>27.58</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>101.002</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 4x6-13 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750** RPM, 60 Hz Electric  
 Impeller Dia.: **13/9** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-041**

Fluid: **Water**

Peak Power: **62.7** hp

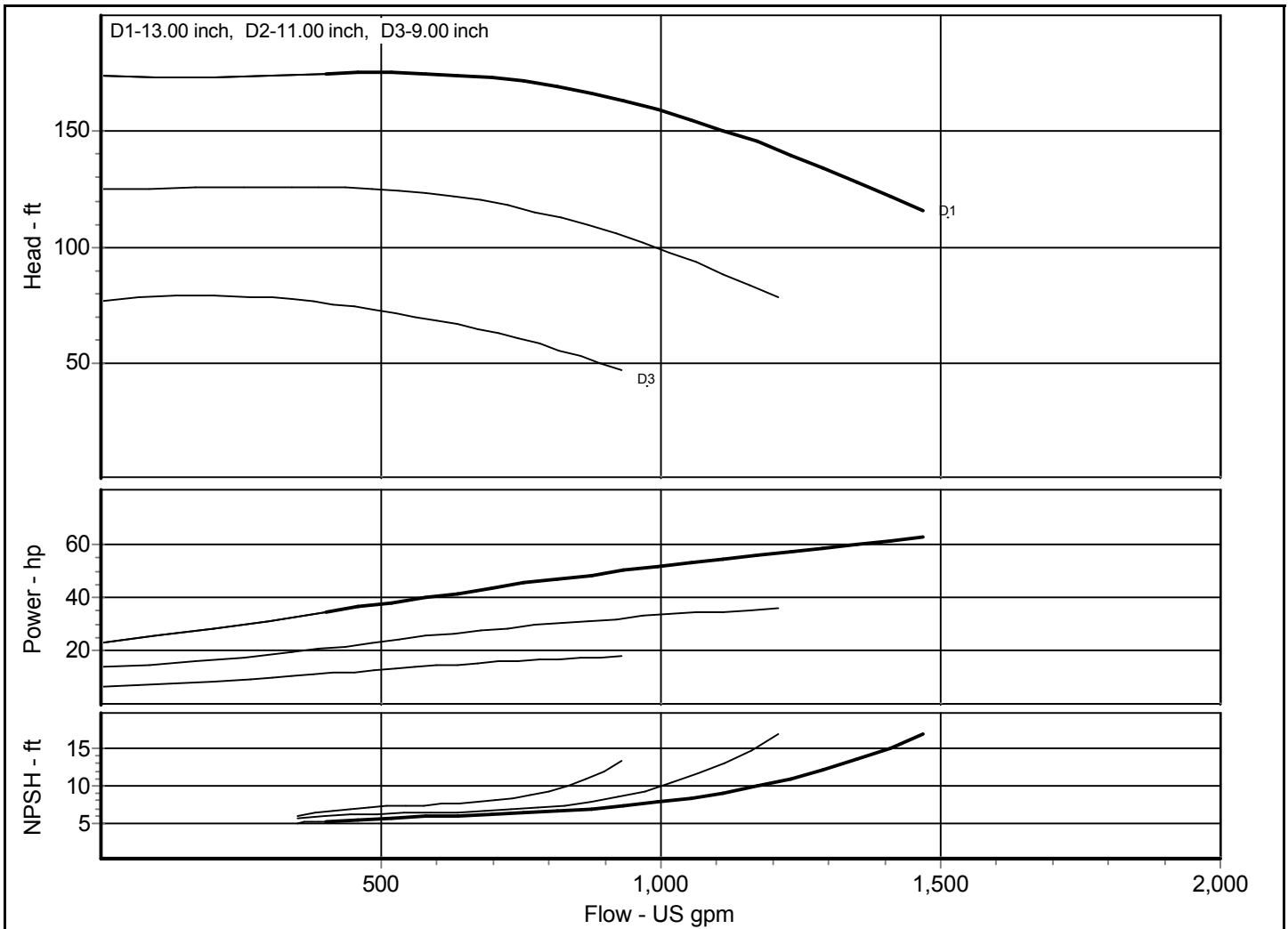
Impeller No.

Closed Valve Pressure **173.999** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 4x6-13 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1750** RPM, 60 Hz Electric  
 Impeller Dia.: **13/9** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-041**

Fluid: **Water**

Peak Power: **62.7** hp

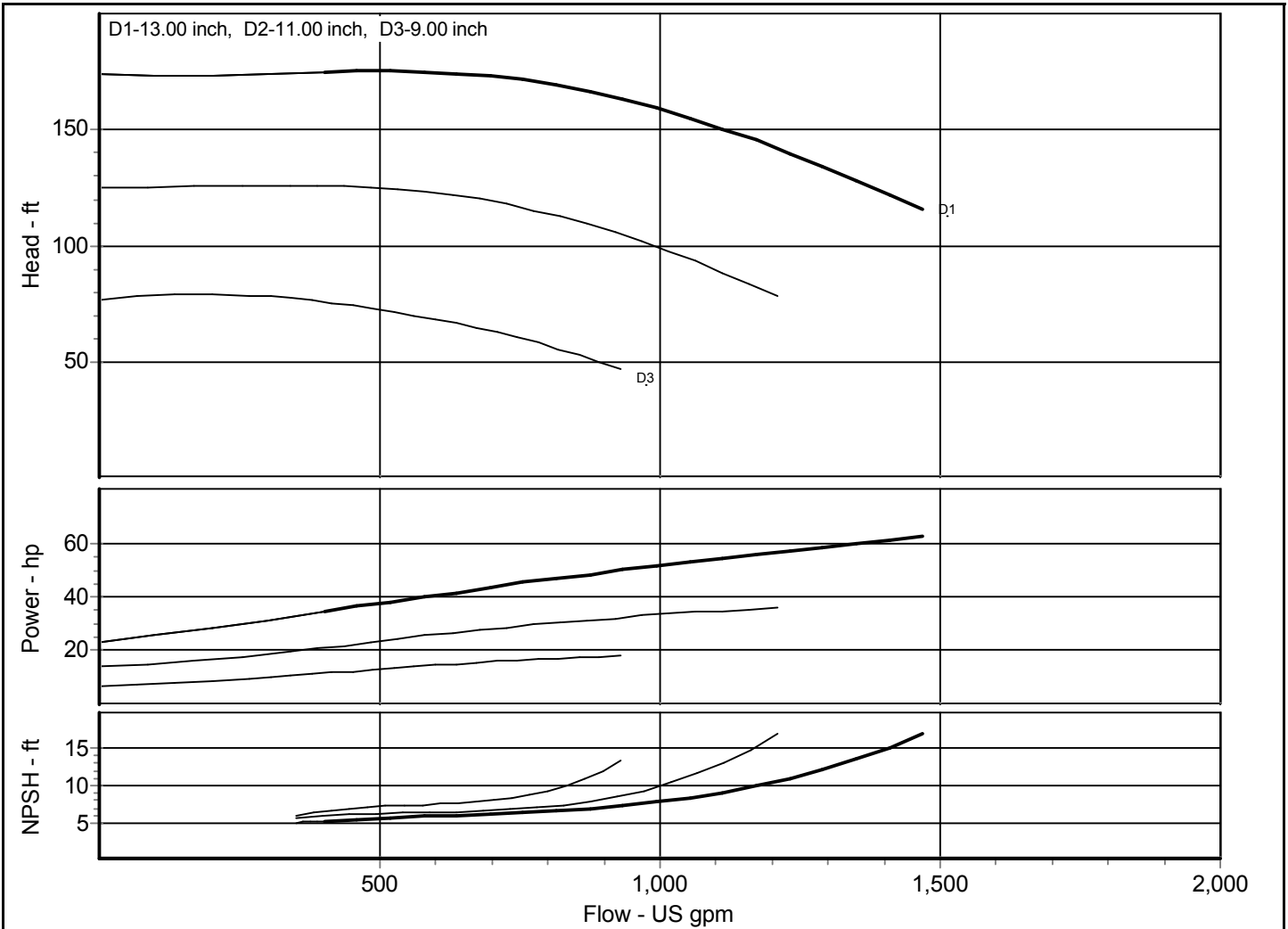
Impeller No.

Closed Valve Pressure **173.999** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

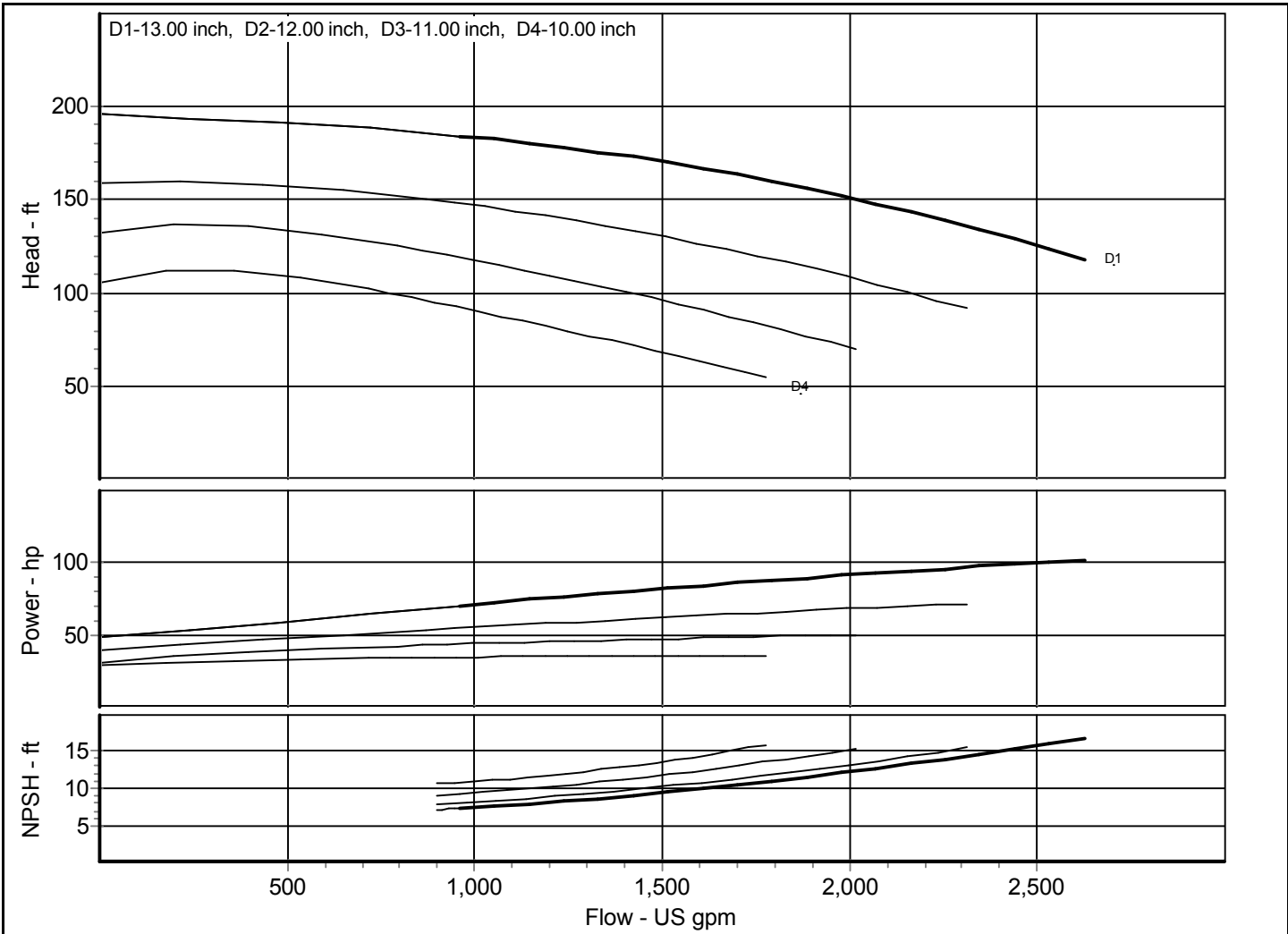


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 6x8-13 XLTP 8196** Nom. Speed: **1750** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/10** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **101.31** hp  
 Fluid: **Water** Closed Valve Pressure **196** ft  
 Curve No.: **8196-043**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.



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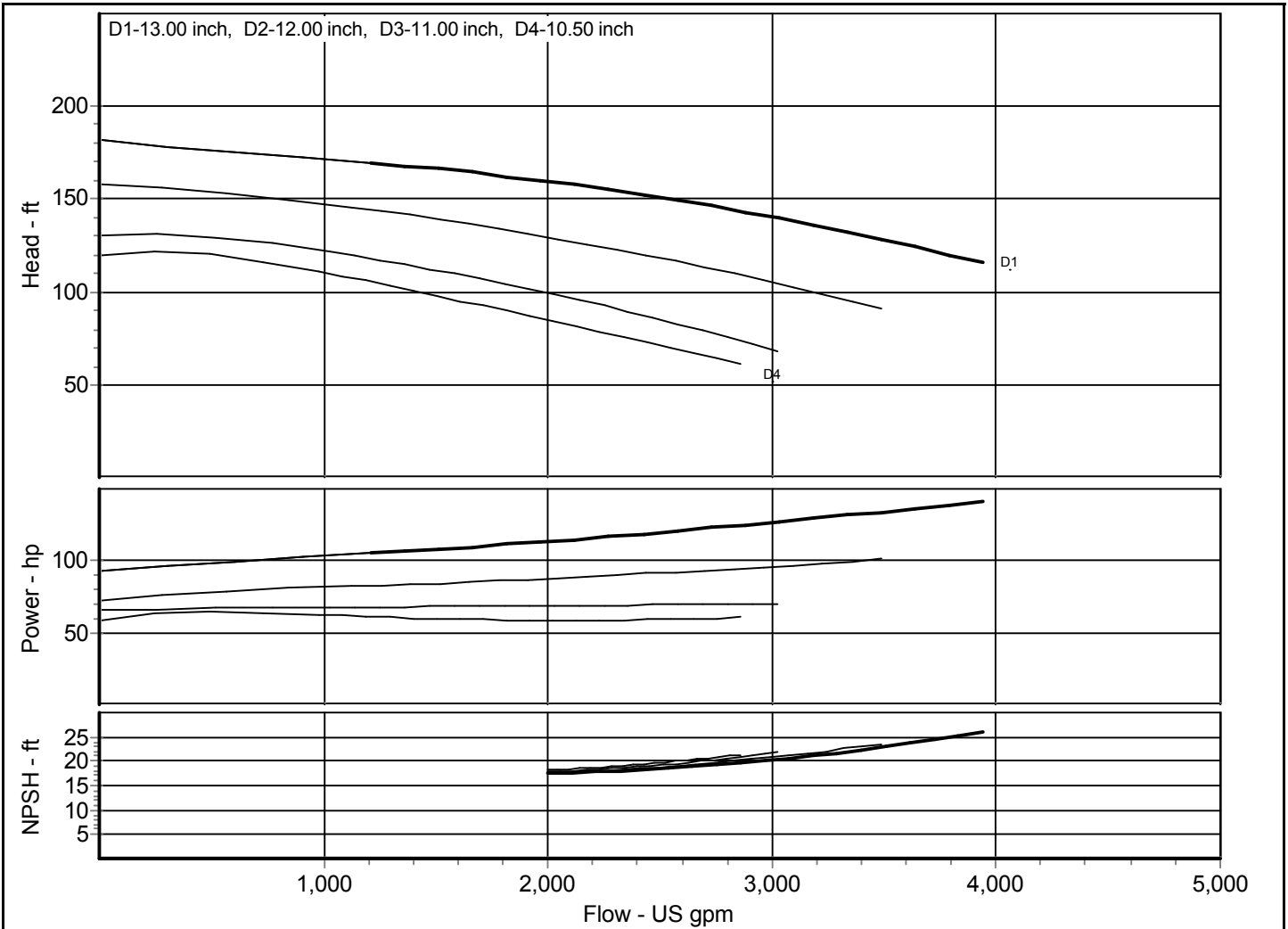
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model:	<b>Peerless - 8x10-13 XLTP 8196</b>	Nom. Speed:	<b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type:	<b>8196 - ANSI Standard End Suction</b>	Impeller Dia.:	<b>13/10.5</b> inch	Duty Head :	ft
		Temperature:	<b>68</b> °F	Efficiency :	%
		Viscosity:	<b>1.009</b> cP	Power Required :	hp
Curve No.:	<b>8196-045</b>	Sp. Gravity:	<b>1.000</b>	NPSH Required :	ft
Impeller No.		Fluid:	<b>Water</b>	Peak Power:	<b>141.64</b> hp
Item :	<b>1</b>			Closed Valve Pressure	<b>181.999</b> ft
Your Ref.:		Tolerance :	<b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.



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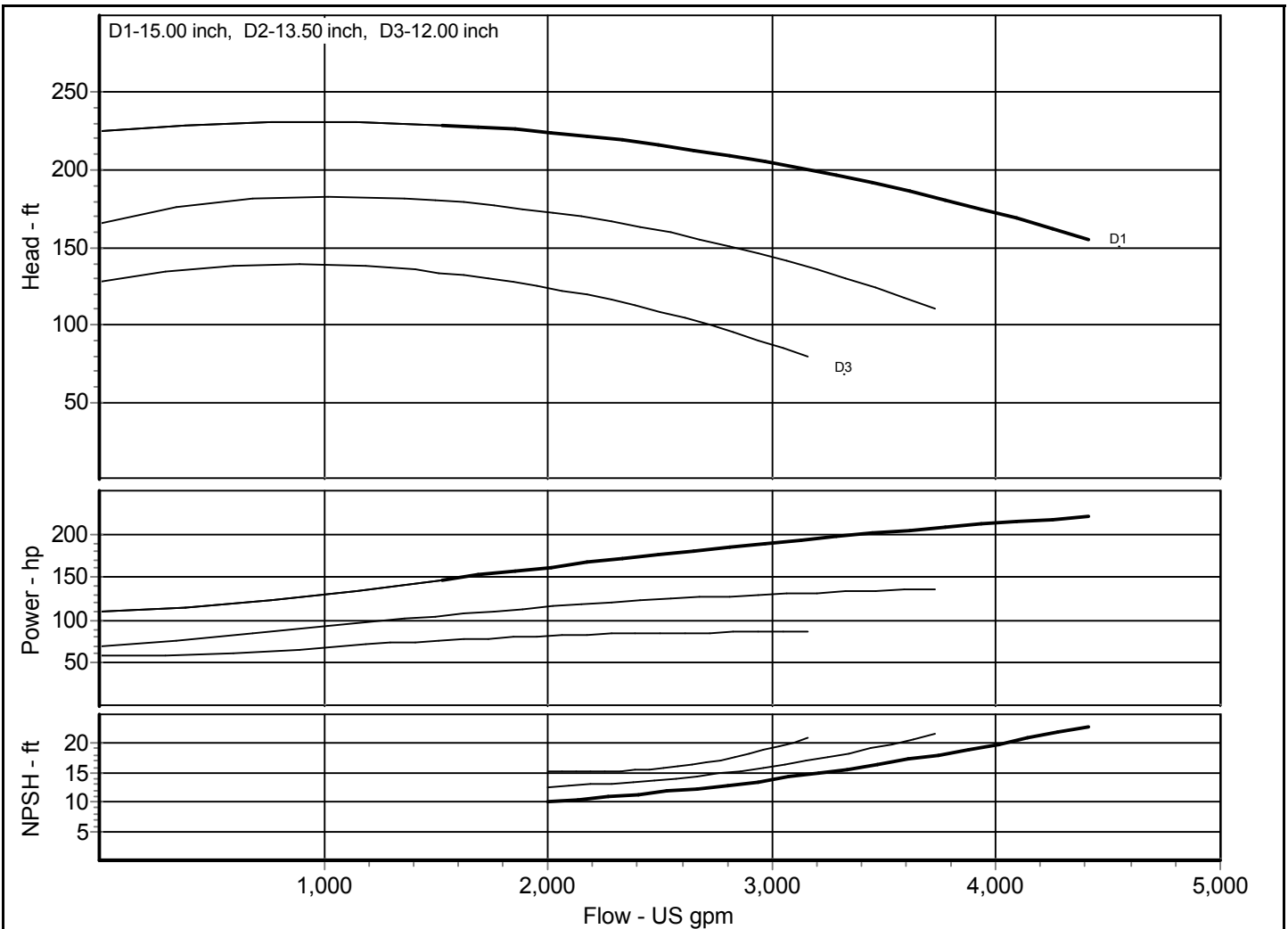
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 8x10-15G XLTP 8196</b>	Nom. Speed: <b>1750</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>15/12</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-051</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>219.61</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>225</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.



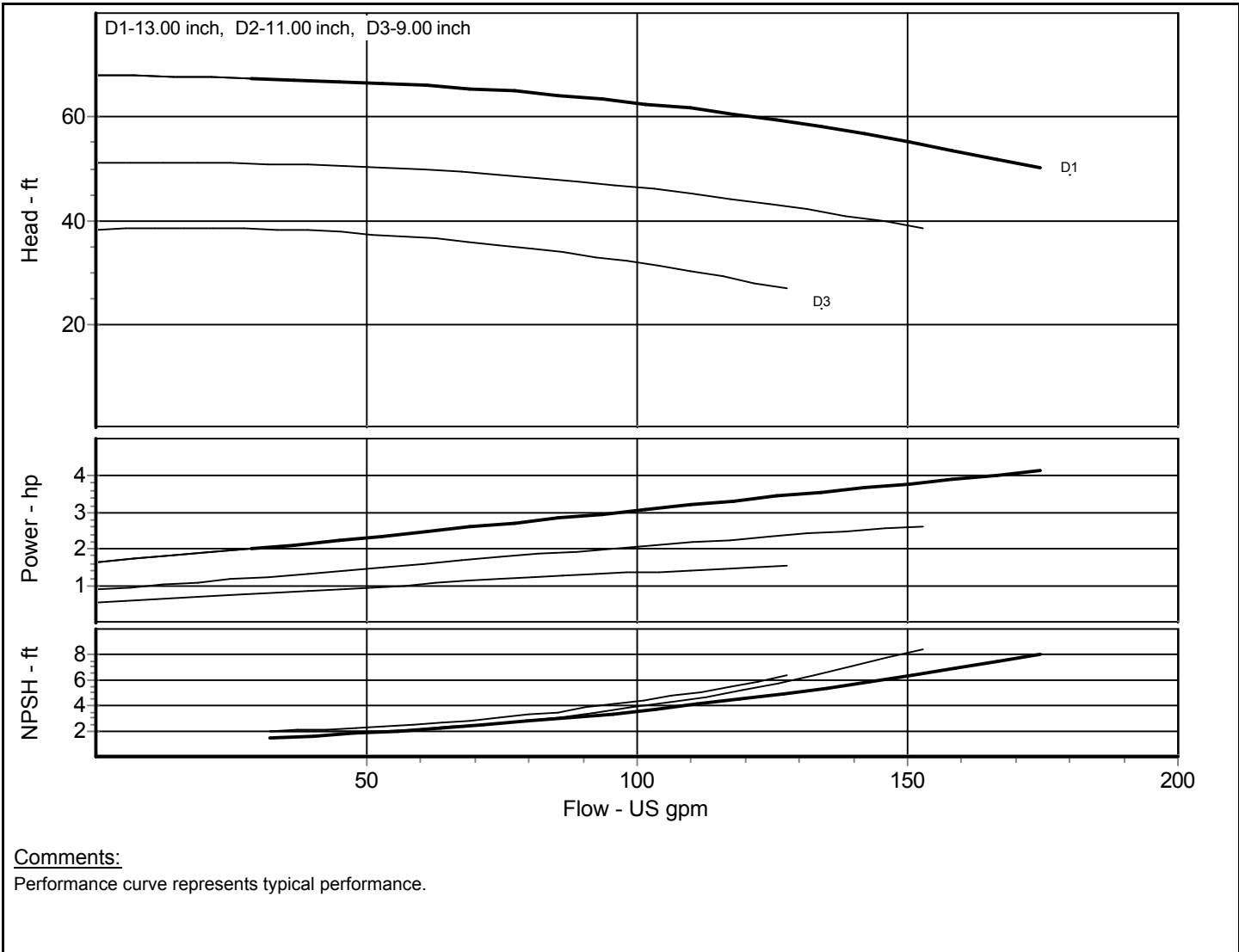
Customer :

Peerless Pump Company LLC  
 P O Box 7026, Indianapolis, Indiana, 46202

<b>Project :</b>		<b>Contact :</b>	
<b>Quote No. :</b>	<b>Page No.</b>	<b>Phone :</b>	<b>Fax :</b>
		<b>Date :</b>	

Pump Model: <b>Peerless - 1.5x3-13 LTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-031</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>4.13</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>68.205</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



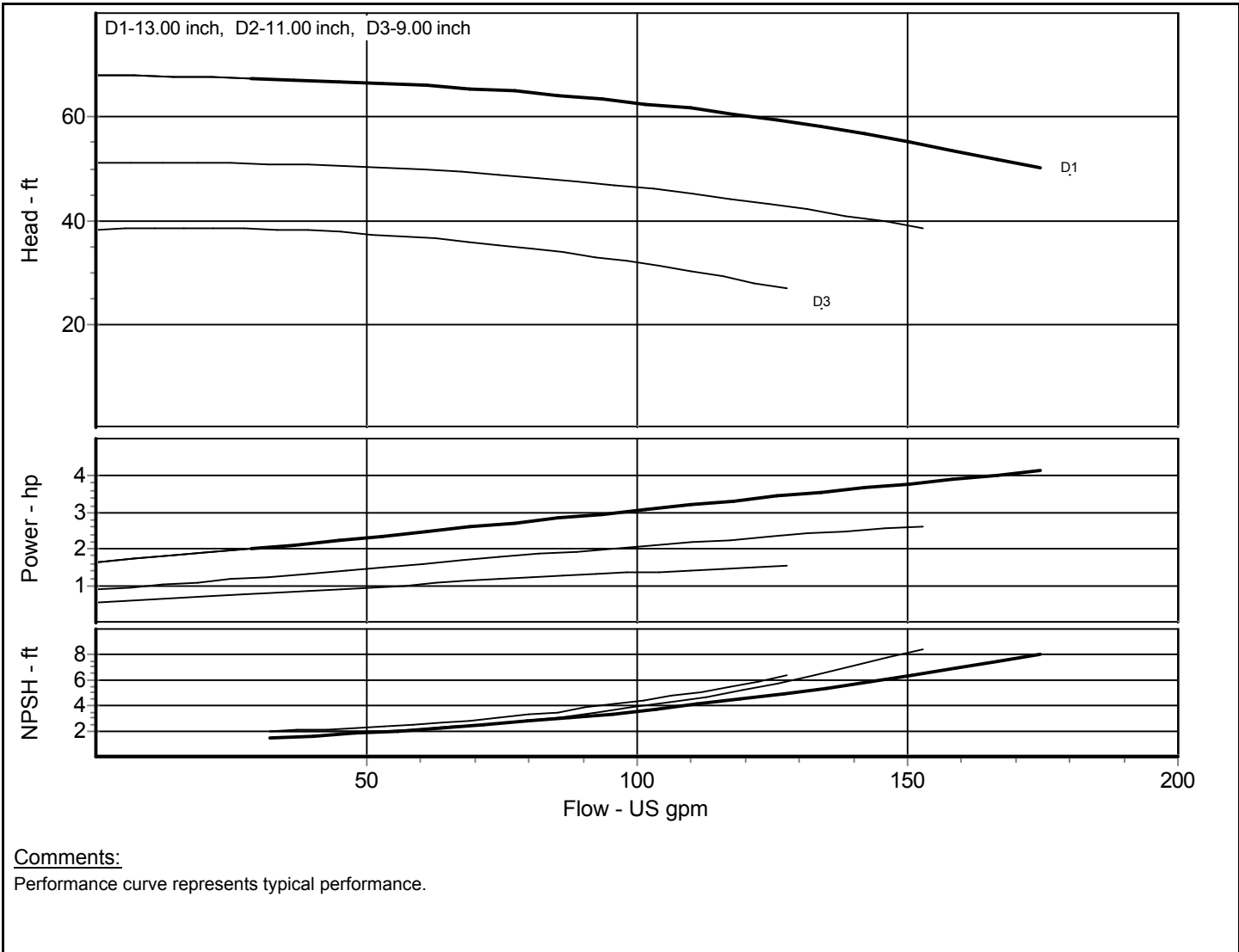


Peerless Pump Company LLC  
 P O Box 7026, Indianapolis, Indiana, 46202

Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1.5x3-13 LTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-031</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>4.13</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>68.205</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.





Peerless Pump Company LLC  
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Customer :

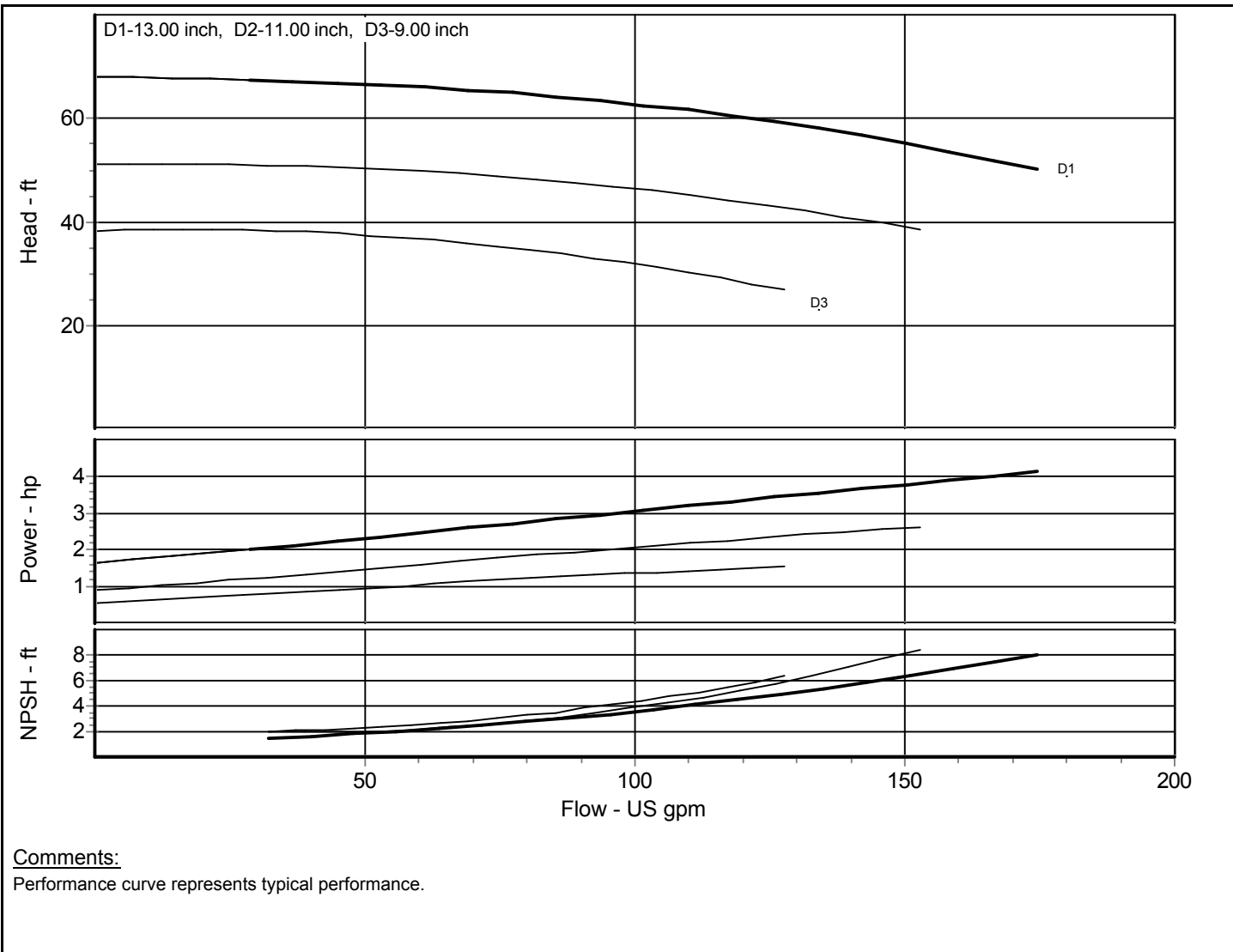
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 1.5x3-13 MTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-031</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>4.13</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>68.205</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



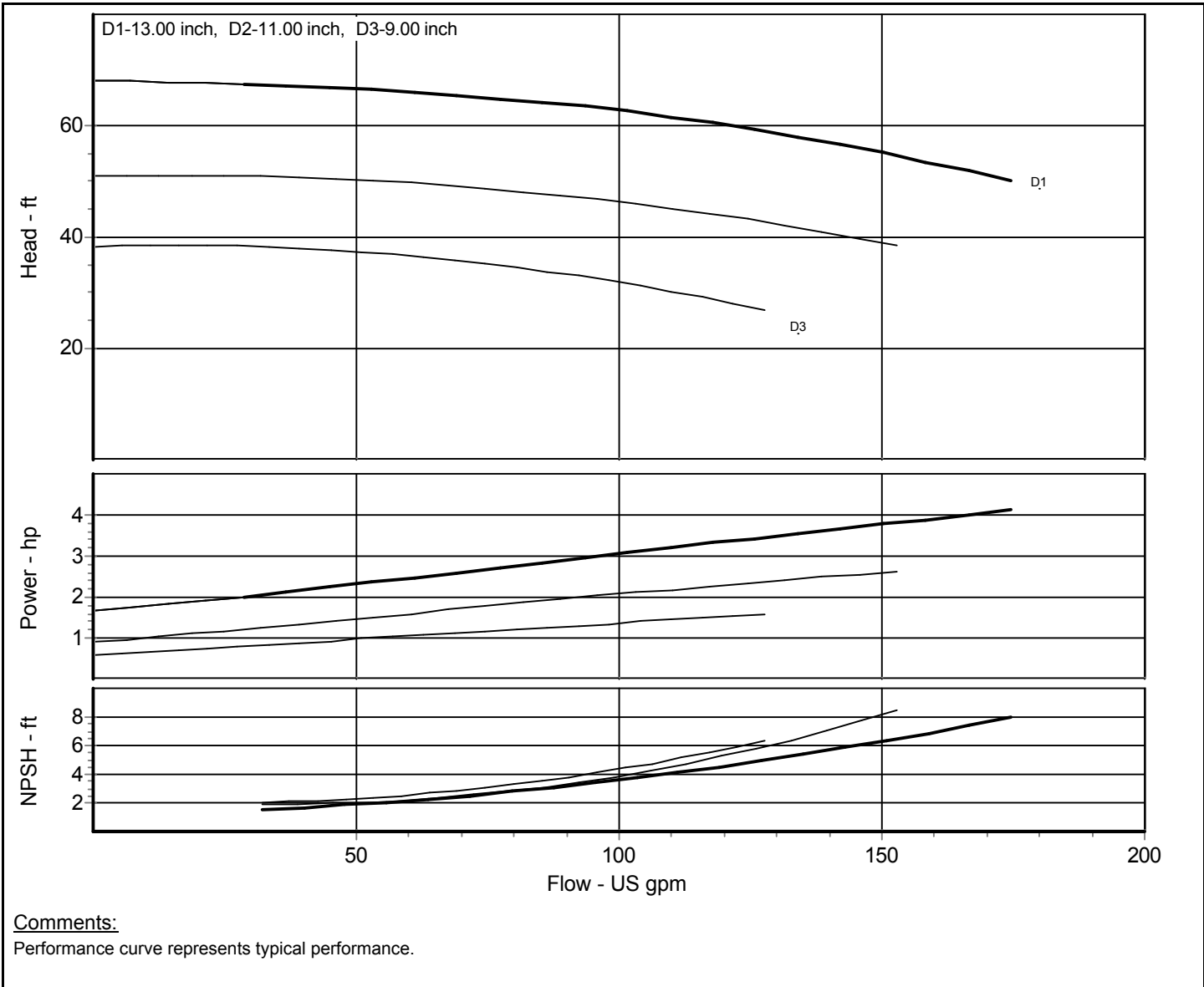


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1.5x3-13 LTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-031</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>4.13</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>68.205</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



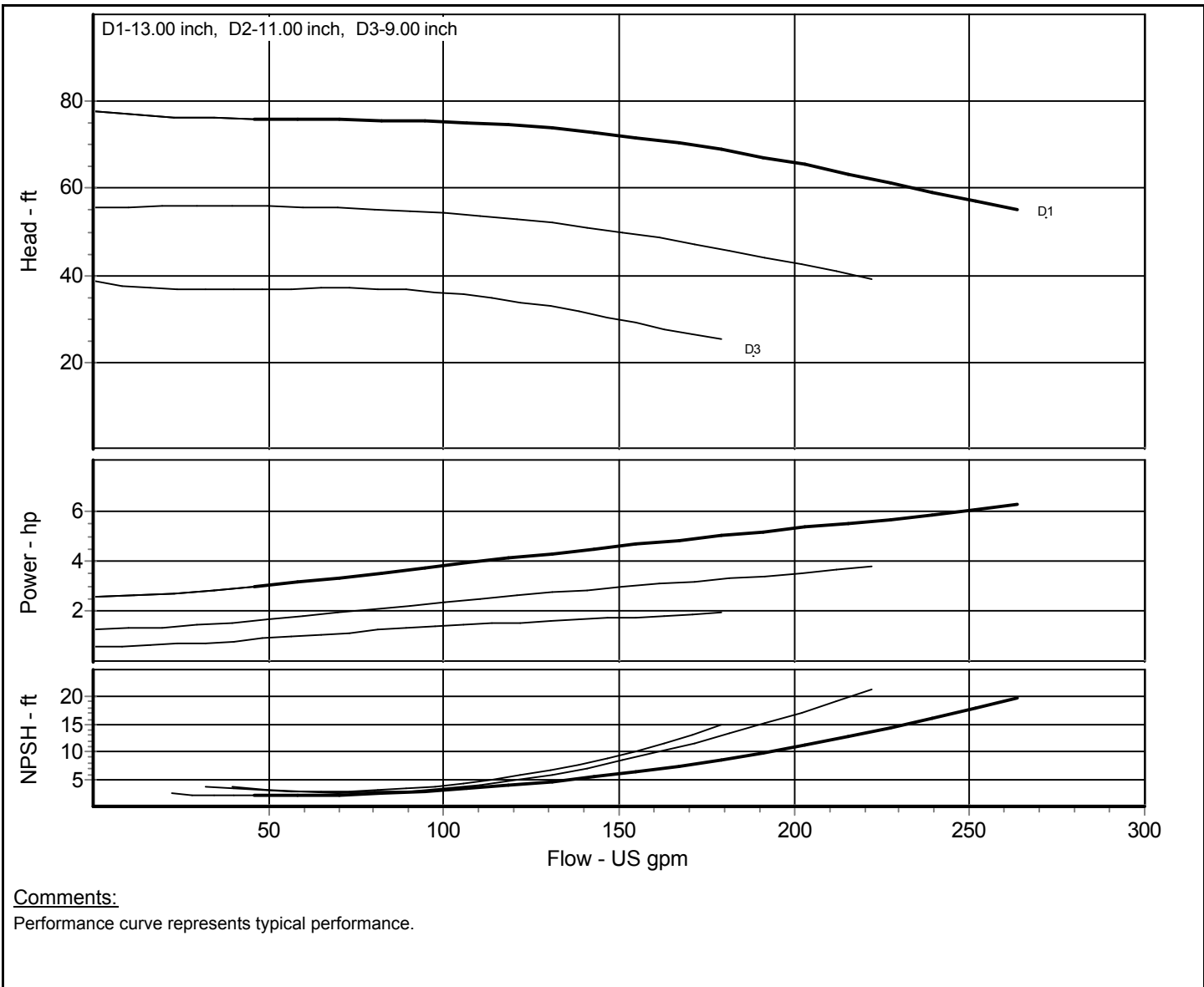


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-13 MTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-034</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>6.23</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>77.788</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



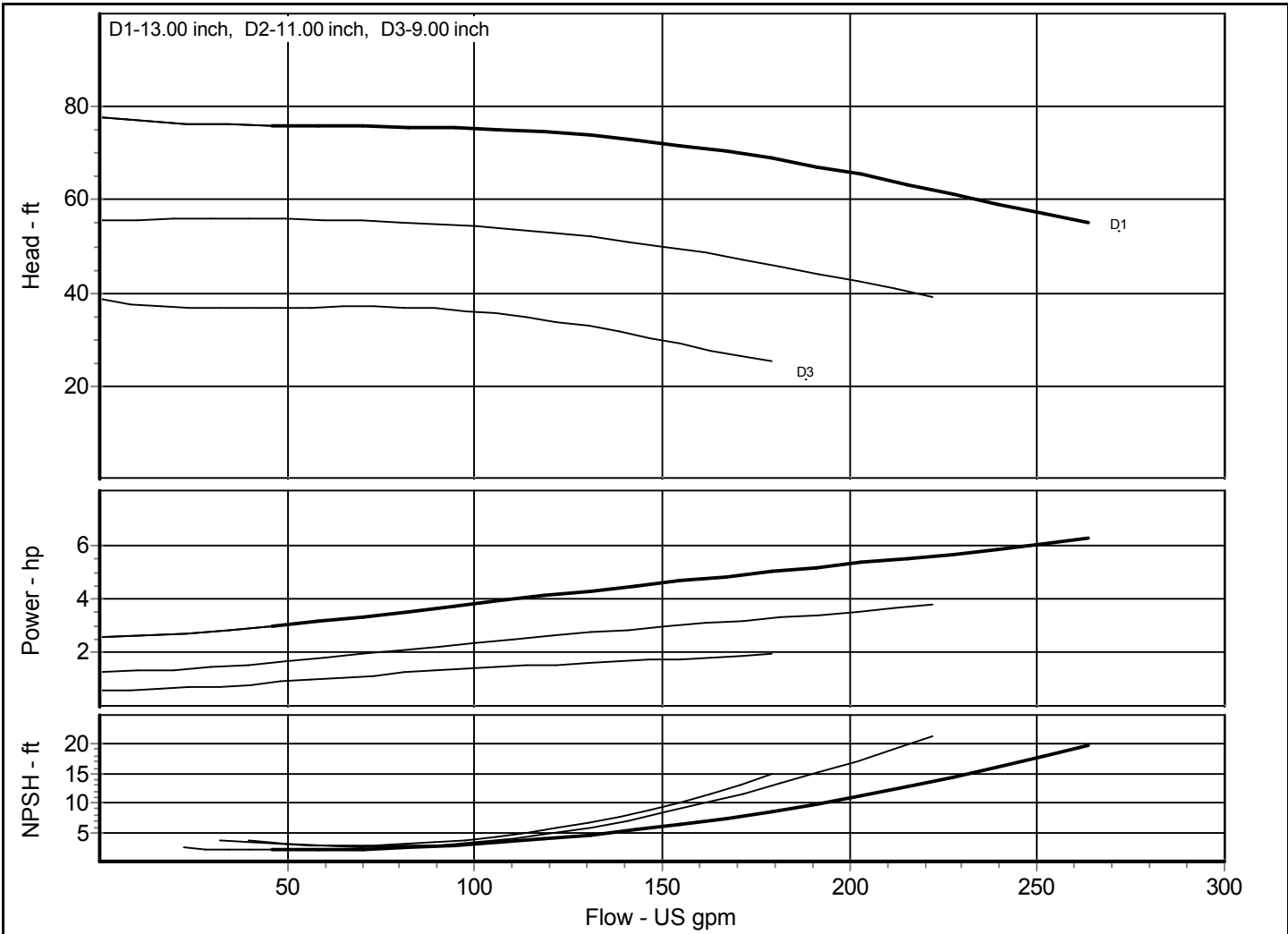


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**Project :** \_\_\_\_\_ **Contact :** \_\_\_\_\_  
**Quote No. :** \_\_\_\_\_ **Page No. :** \_\_\_\_\_ **Phone :** \_\_\_\_\_ **Fax :** \_\_\_\_\_  
 \_\_\_\_\_ **Date :** \_\_\_\_\_

Pump Model: <b>Peerless - 2x3-13 LTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-034</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No. _____	Fluid: <b>Water</b>	Peak Power:	<b>6.23</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>77.788</b> ft
Your Ref.: _____	Tolerance : <b>Hyd Inst-Peerless Std</b>		



**Comments:**

Performance curve represents typical performance. See Standard Hydraulic Performance document in the selective printing area of RAPID for testing tolerances & contractual guarantees.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 3x4-8 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1150** RPM, 60 Hz Electric  
 Impeller Dia.: **8.38/6** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-016**

Fluid: **Water**

Peak Power: **3.2** hp

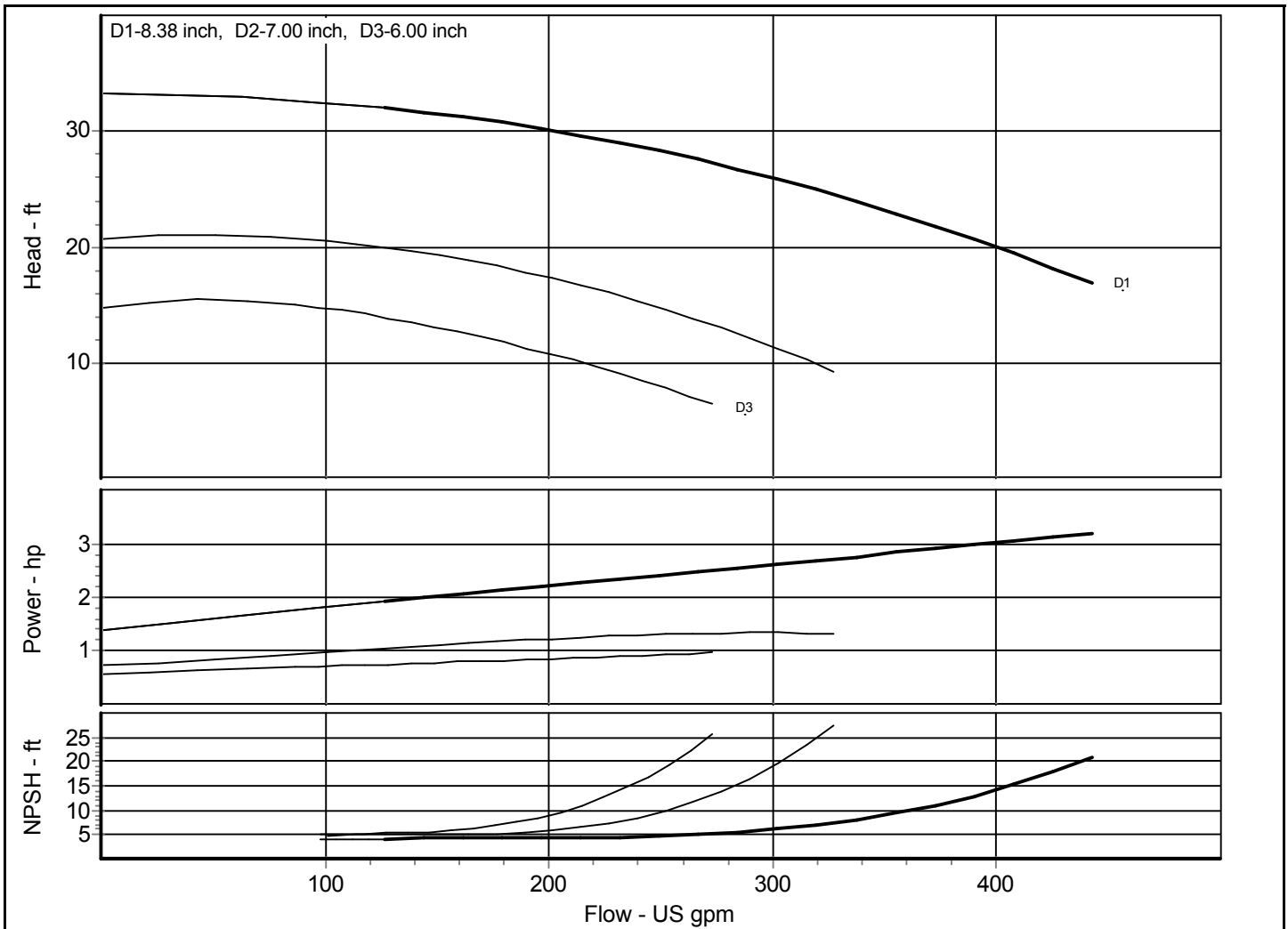
Impeller No.

Closed Valve Pressure **33.25** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

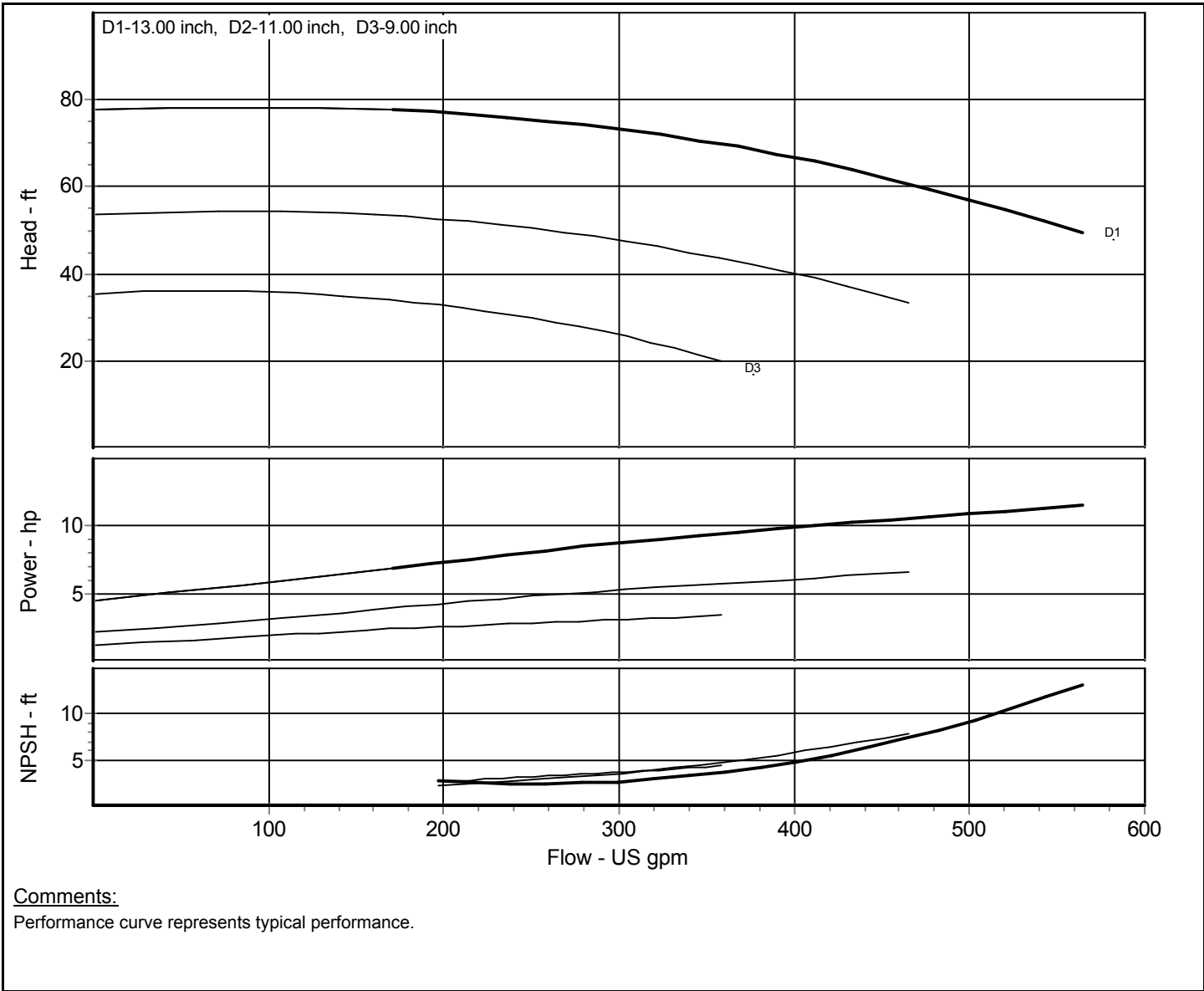


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 3x4-13 5V MTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-037</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>11.51</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>77.727</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



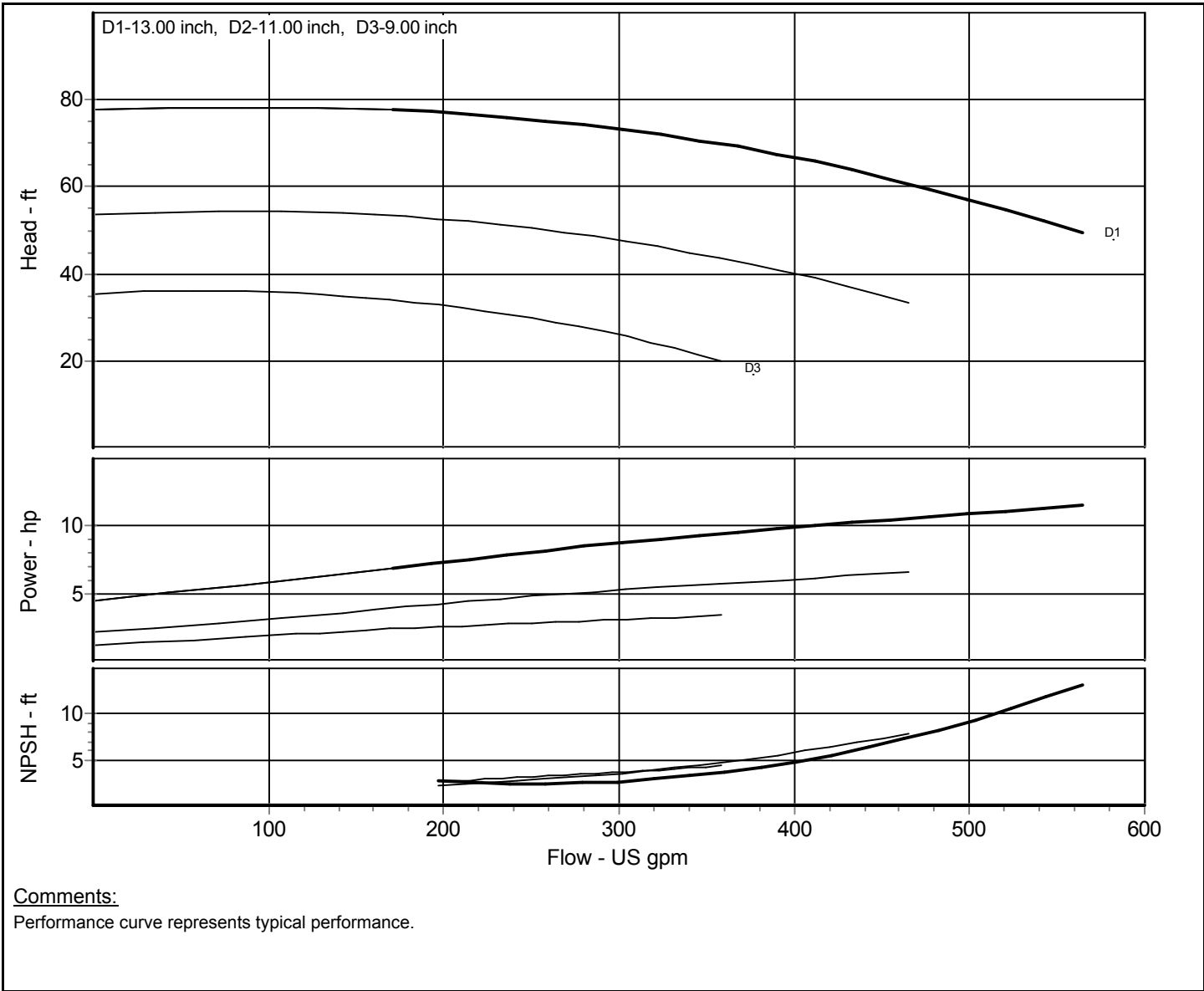


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 3x4-13 5V LTP 8196** Nom. Speed: **1150** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/9** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **11.51** hp  
 Fluid: **Water** Closed Valve Pressure **77.727** ft  
 Curve No.: **8196-037**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**





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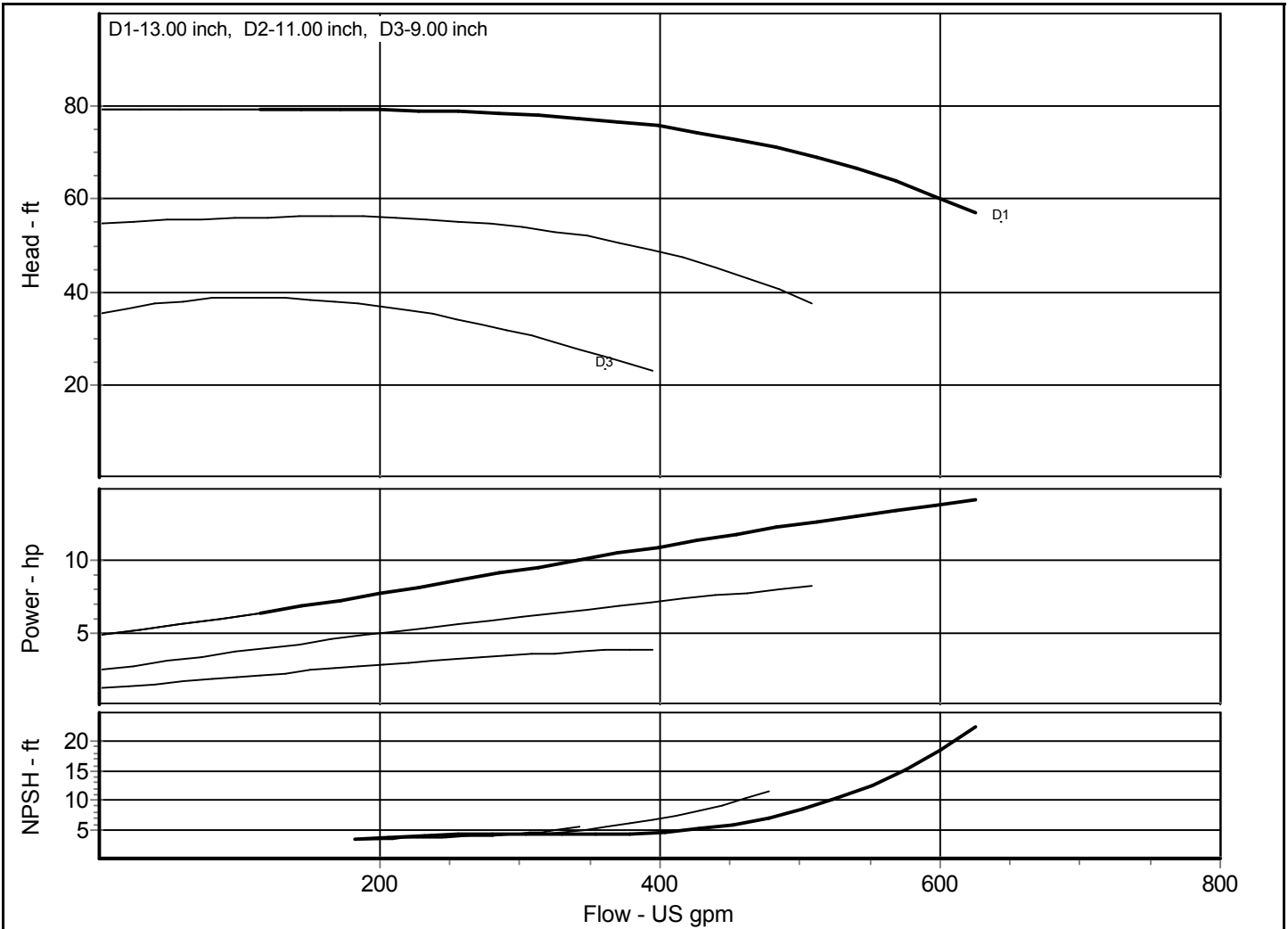
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 3x4-13 6V MTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-040</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>14.22</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>79.447</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.





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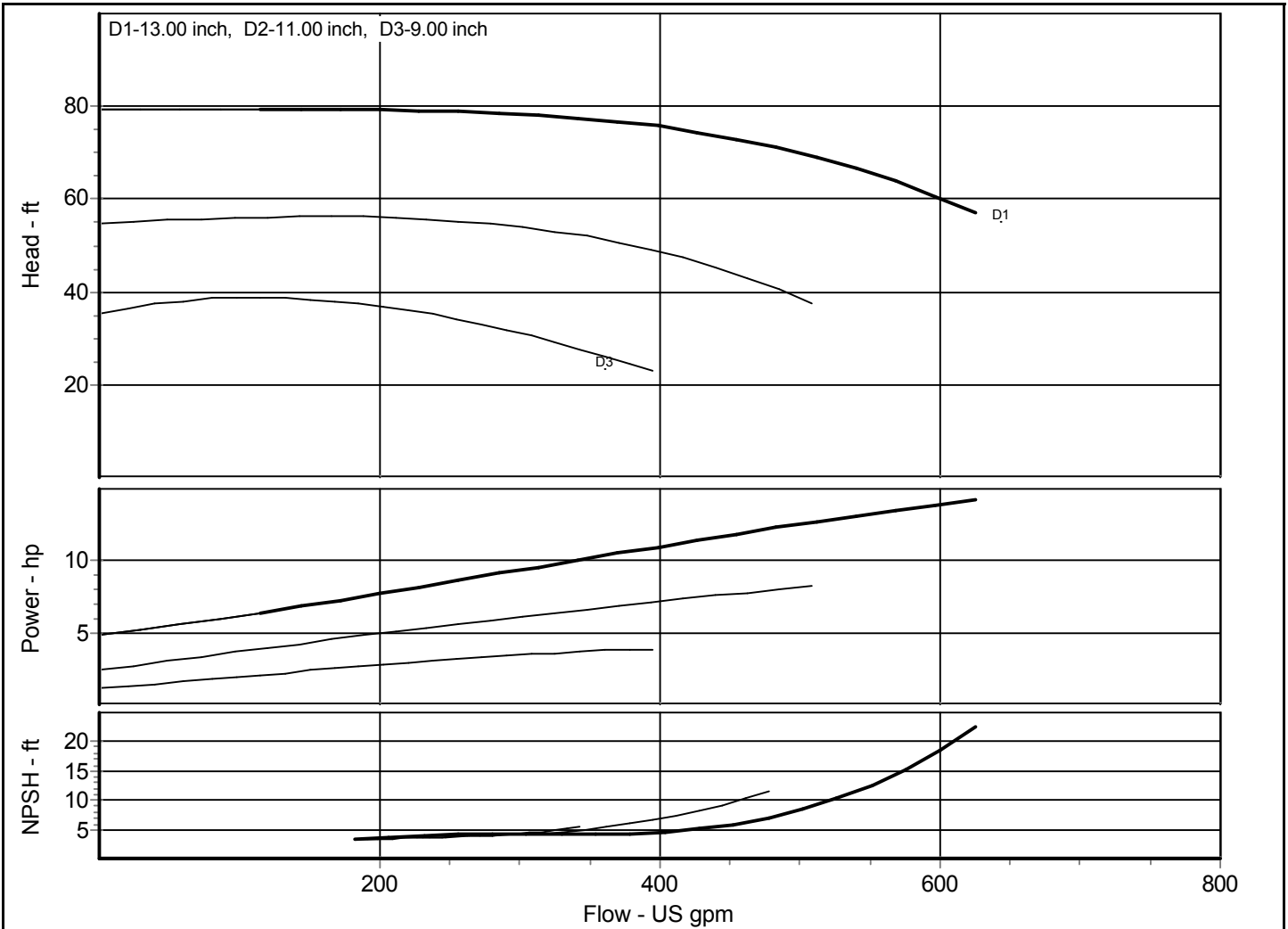
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 3x4-13 6V LTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-040</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>14.22</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>79.447</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.

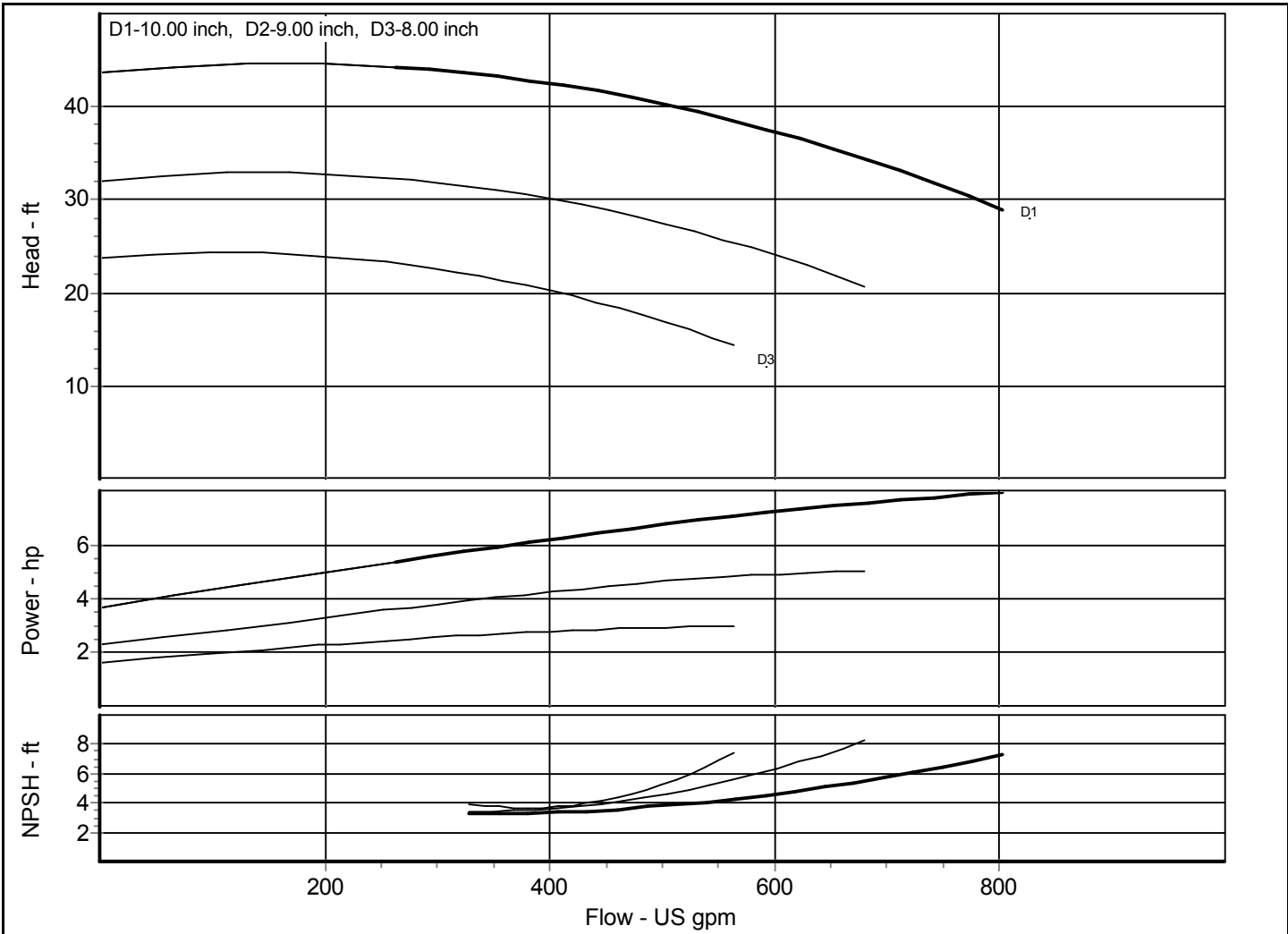


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 4x6-10 MTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/8</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-028</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>7.93</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>43.616</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 4x6-10 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1150 RPM, 60 Hz Electric**  
 Impeller Dia.: **10/8 inch**

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68 °F**  
 Viscosity: **1.009 cP**  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft  
 Peak Power: **7.93 hp**  
 Closed Valve Pressure **43.616 ft**

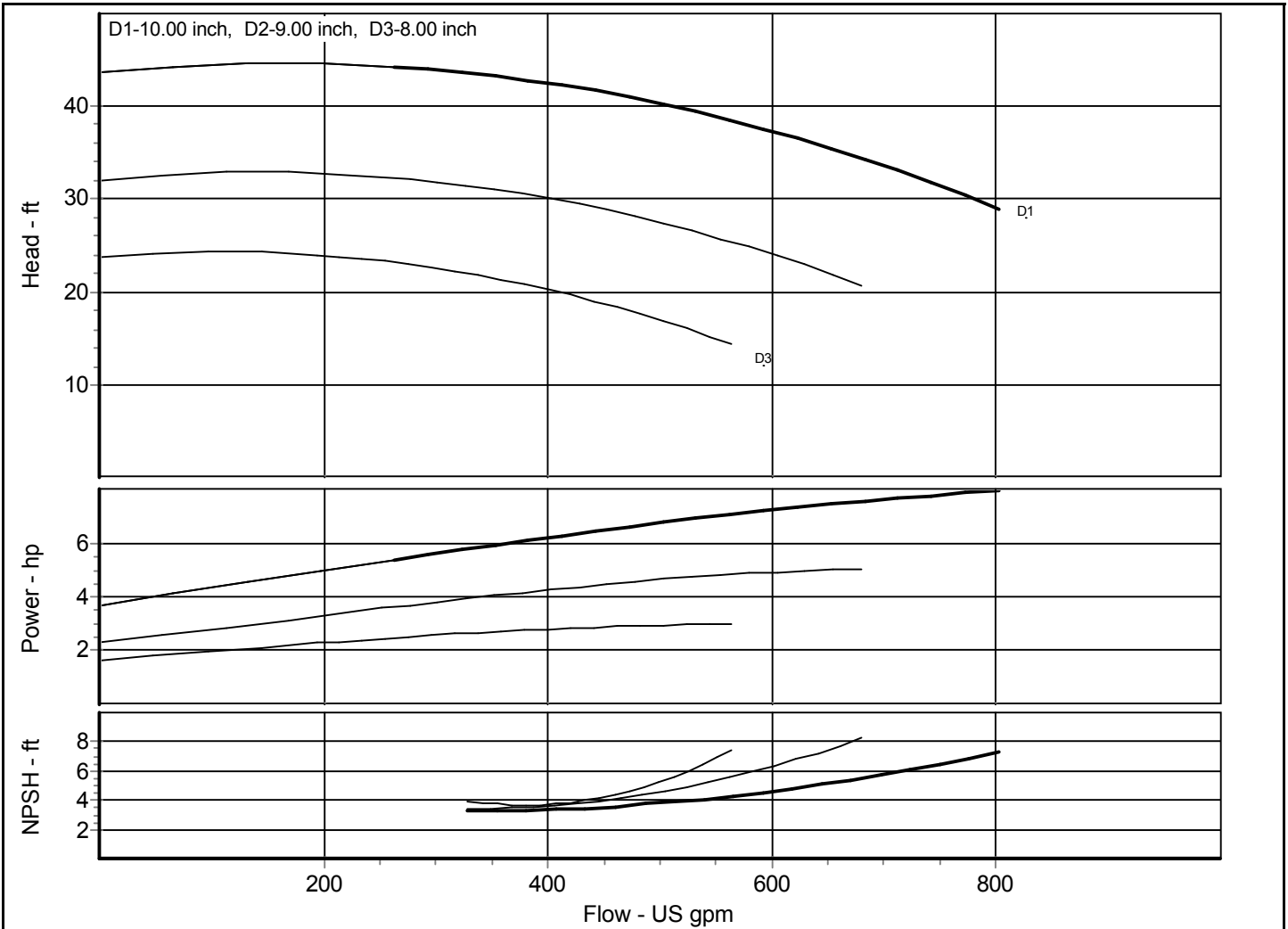
Curve No.: **8196-028**

Impeller No.:

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

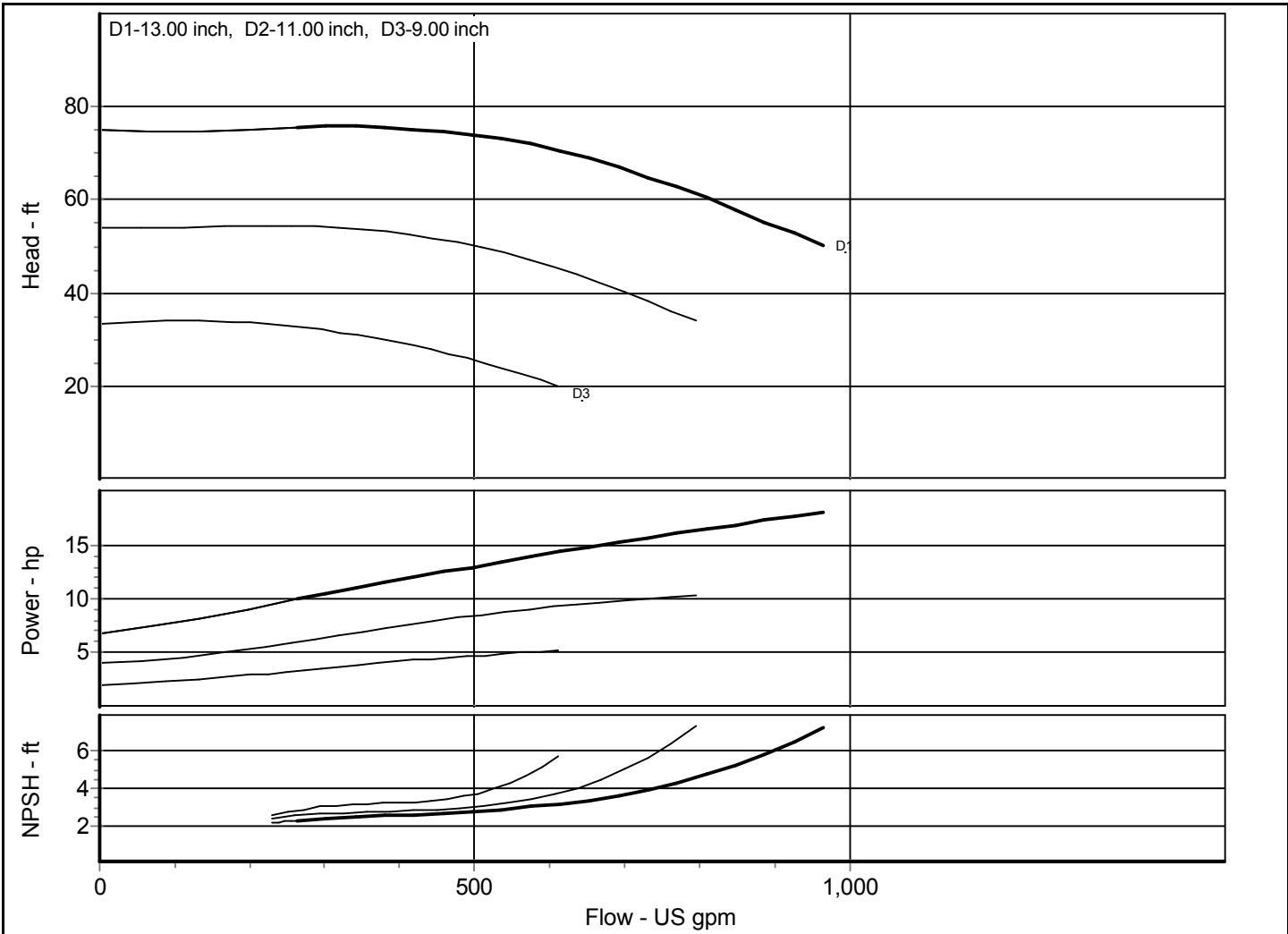


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 4x6-13 MTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-042</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>18.02</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>75.139</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 4x6-13 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1150** RPM, 60 Hz Electric  
 Impeller Dia.: **13/9** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft  
 Peak Power: **18.02** hp  
 Closed Valve Pressure **75.139** ft

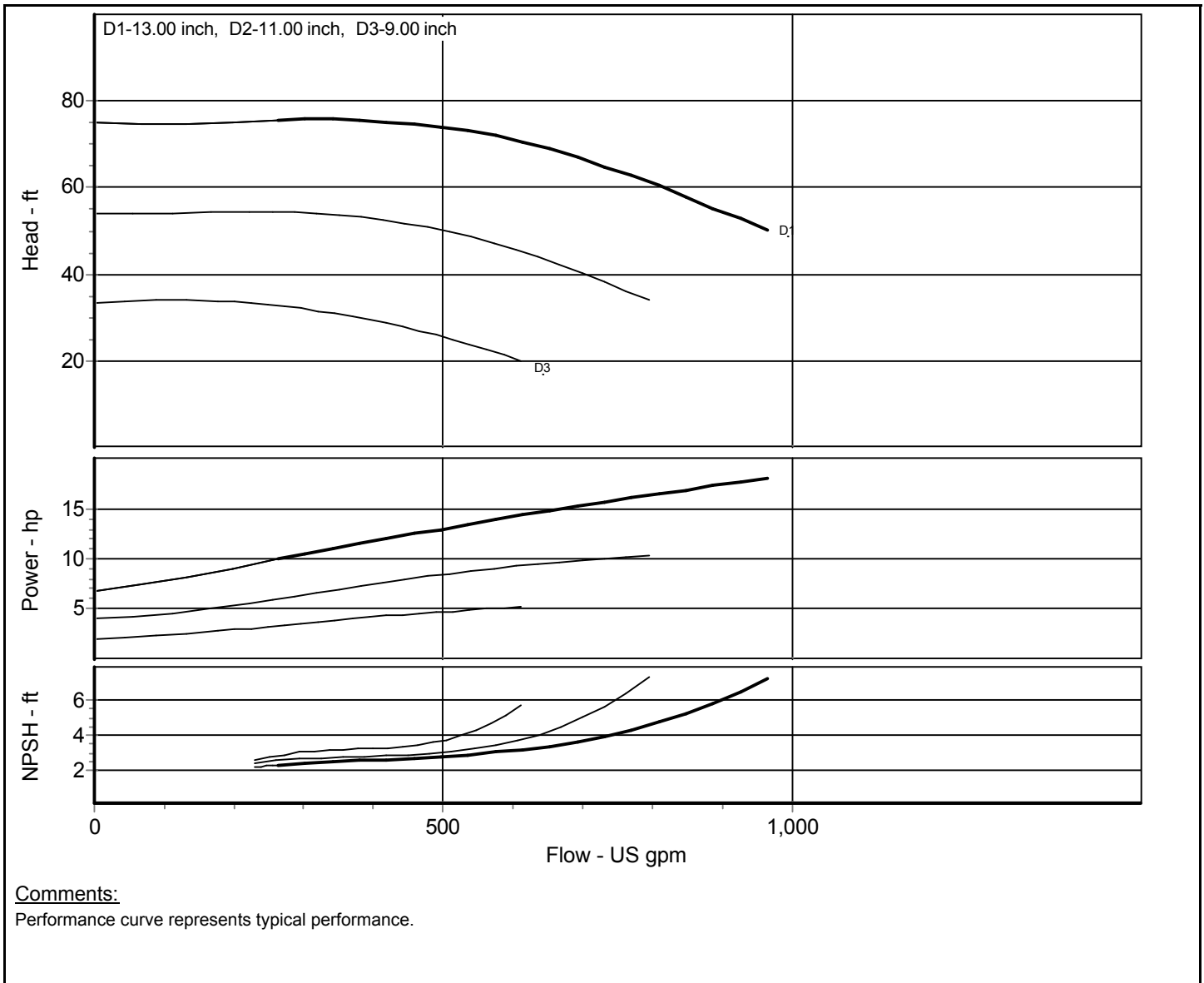
Curve No.: **8196-042**

Impeller No.

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 6x8-13 XLTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1150** RPM, 60 Hz Electric  
 Impeller Dia.: **13/10** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-044**

Impeller No.

Fluid: **Water**

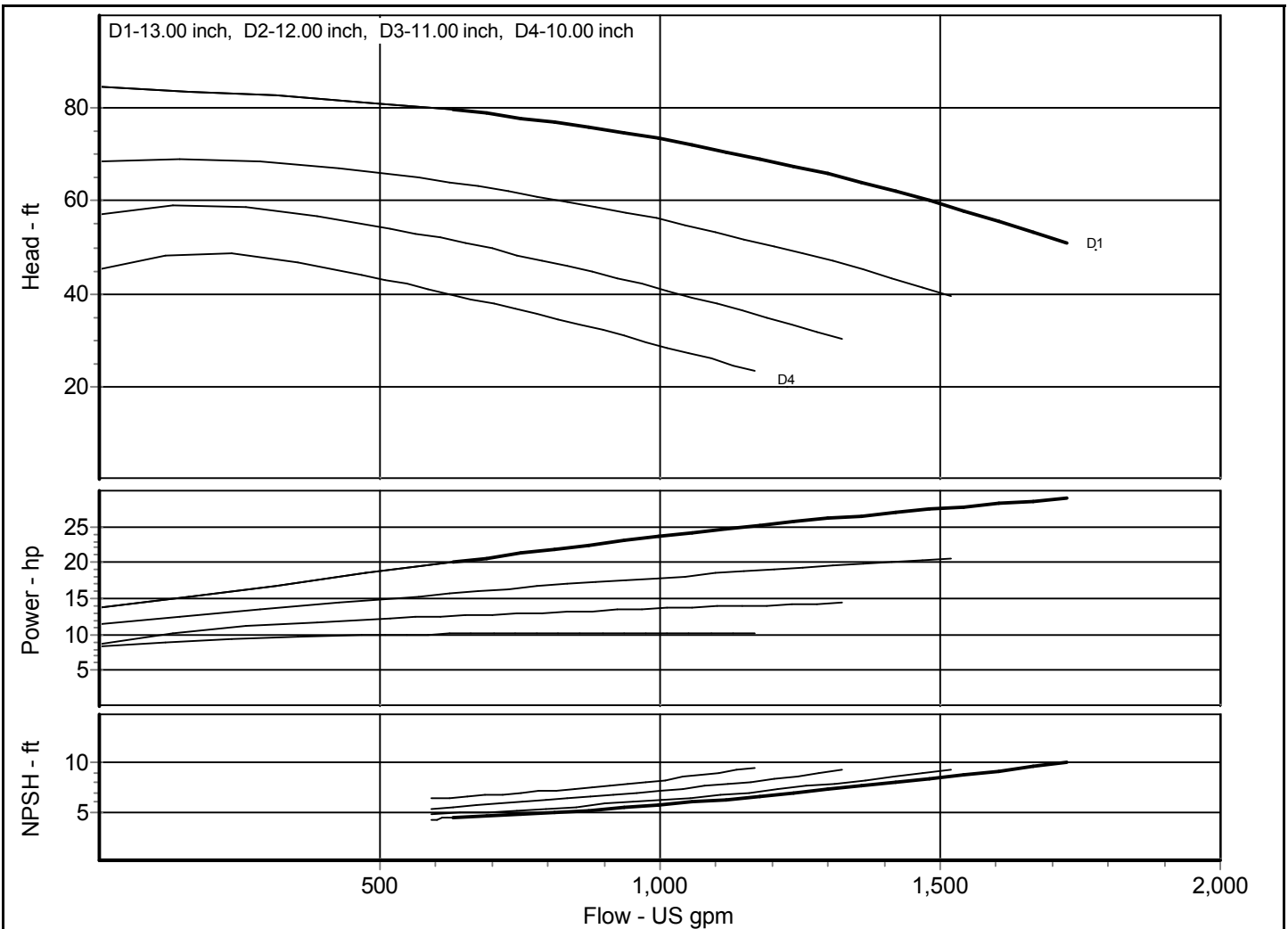
Peak Power: **28.95** hp

Item : **1**

Closed Valve Pressure **84.64** ft

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



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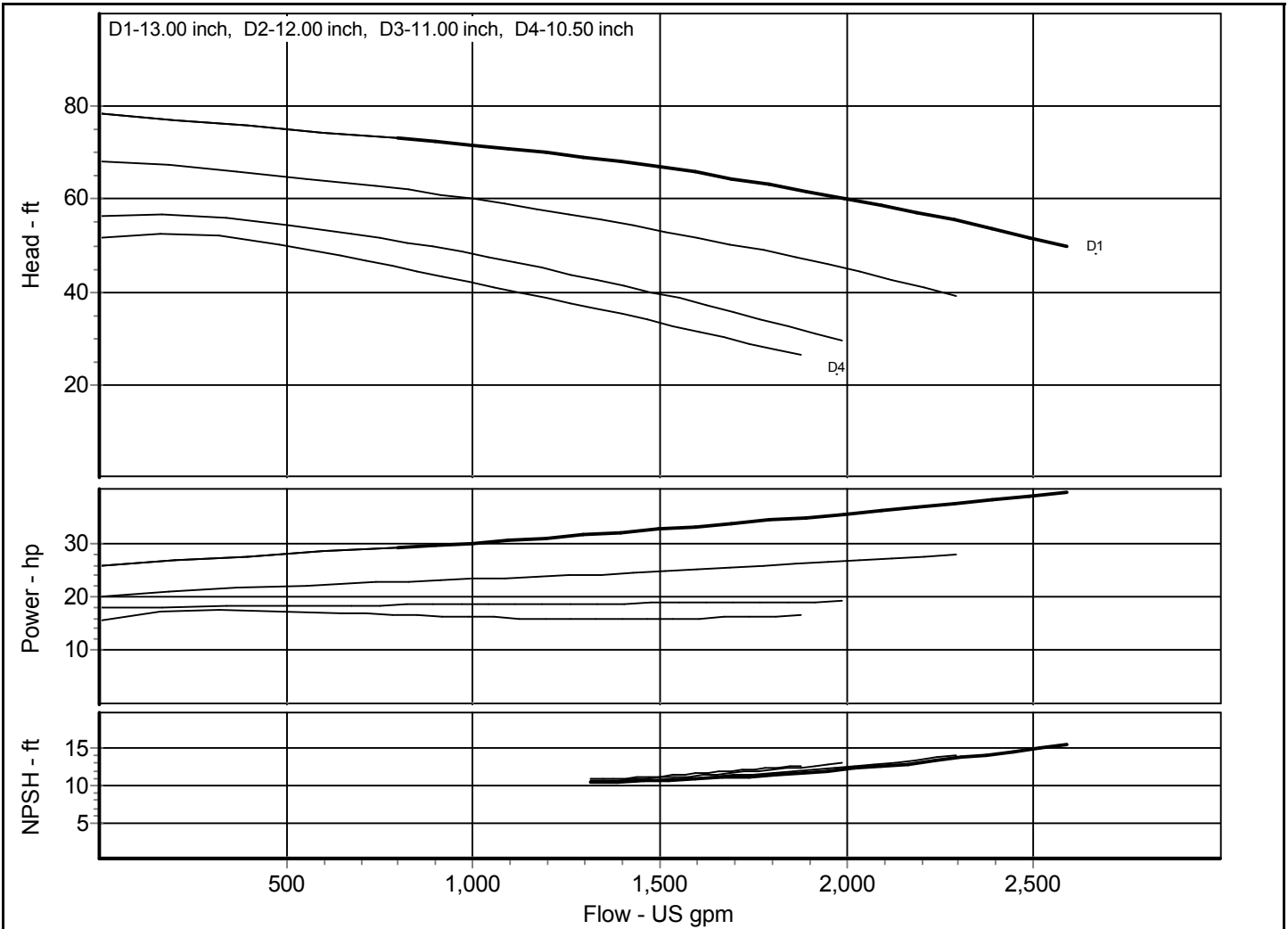
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 8x10-13 XLTP 8196</b>	Nom. Speed: <b>1150</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/10.5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-046</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>39.45</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>78.594</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.



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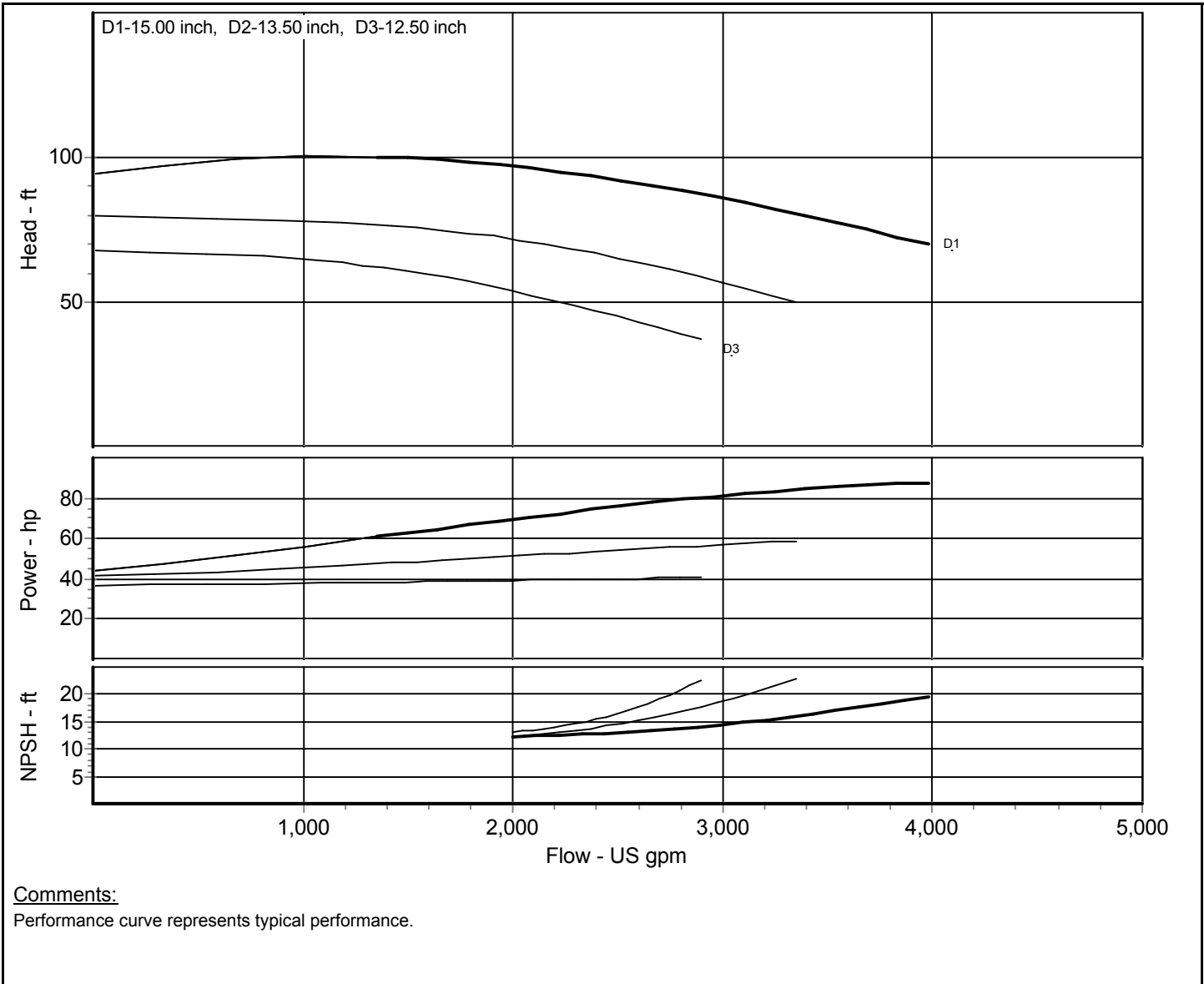
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 8x10-15 XLTP 8196</b>	Nom. Speed: <b>1180</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>15/12.5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-049</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>87.46</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>94</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





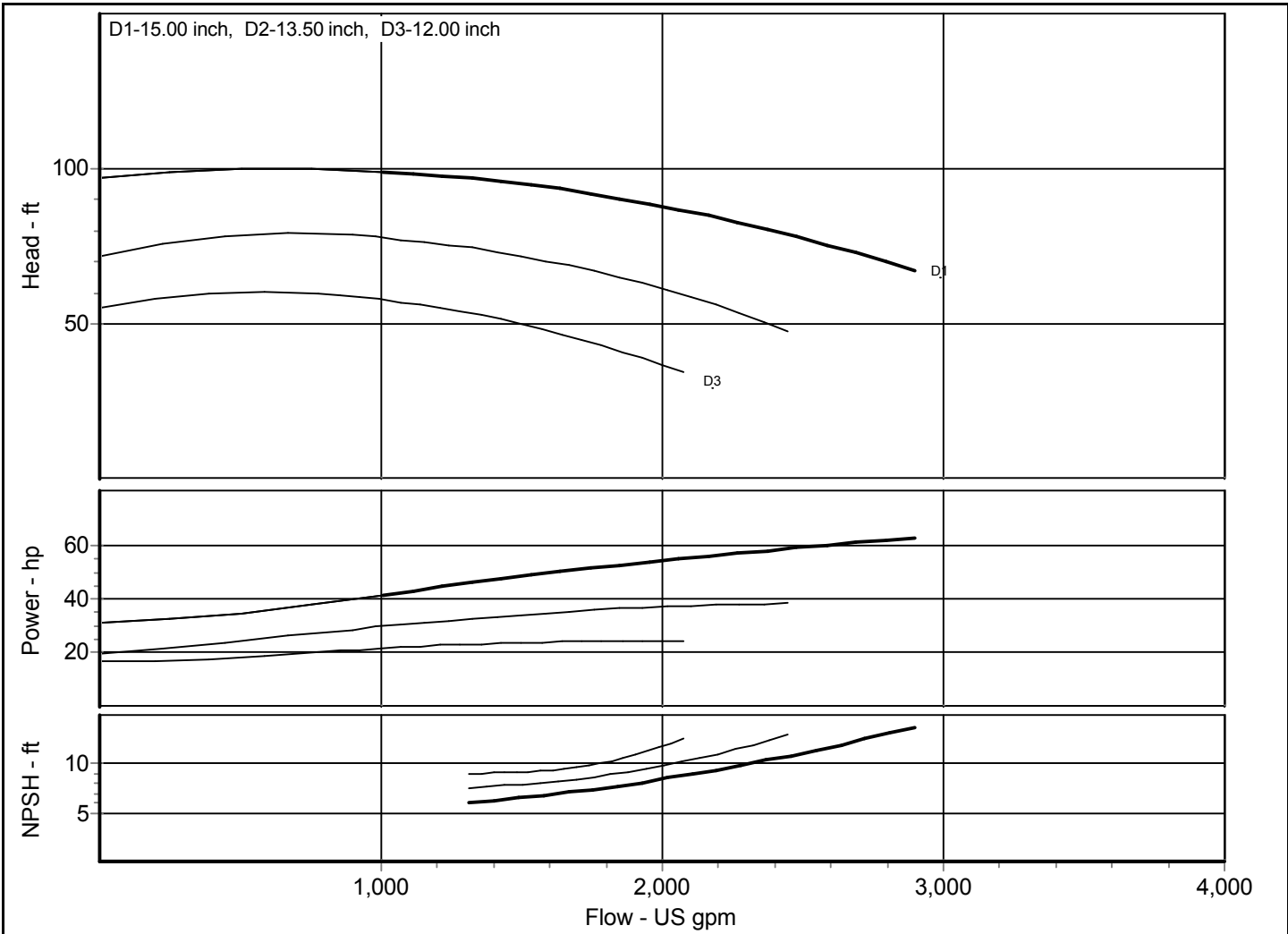


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 8x10-15G XLTP 8196** Nom. Speed: **1150** RPM, 60 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **15/12** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **62.32** hp  
 Fluid: **Water** Closed Valve Pressure **97.163** ft  
 Curve No.: **8196-052**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.



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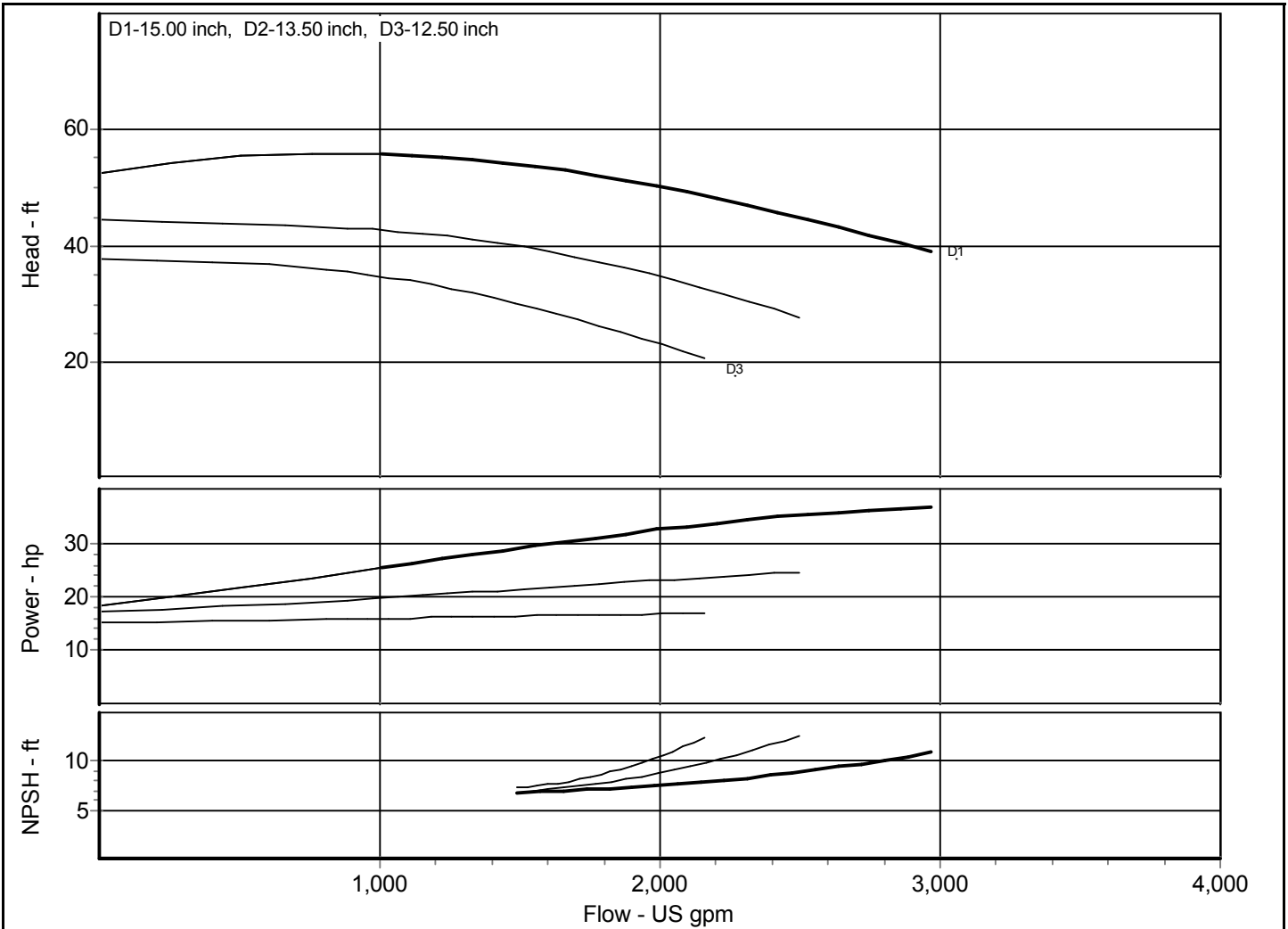
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 8x10-15 XLTP 8196</b>	Nom. Speed: <b>880</b> RPM, 60 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>15/12.5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-050</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>36.46</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>52.279</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.

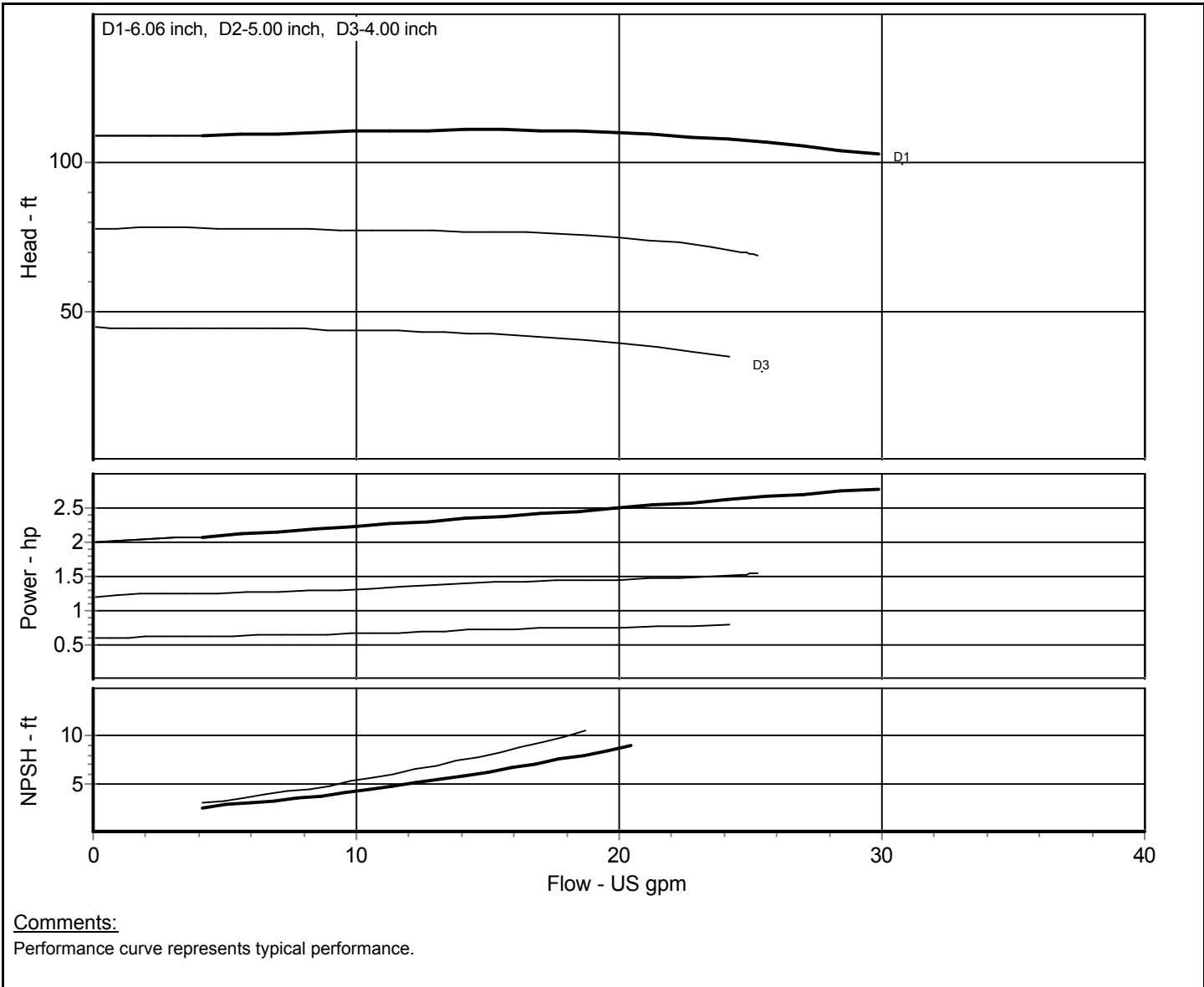


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1x1.5-6 STP 8196LF** Nom. Speed: **2950** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **6.06/4** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **2.78** hp  
 Fluid: **Water** Closed Valve Pressure **109.051** ft  
 Curve No.: **8196LF-50hz001**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



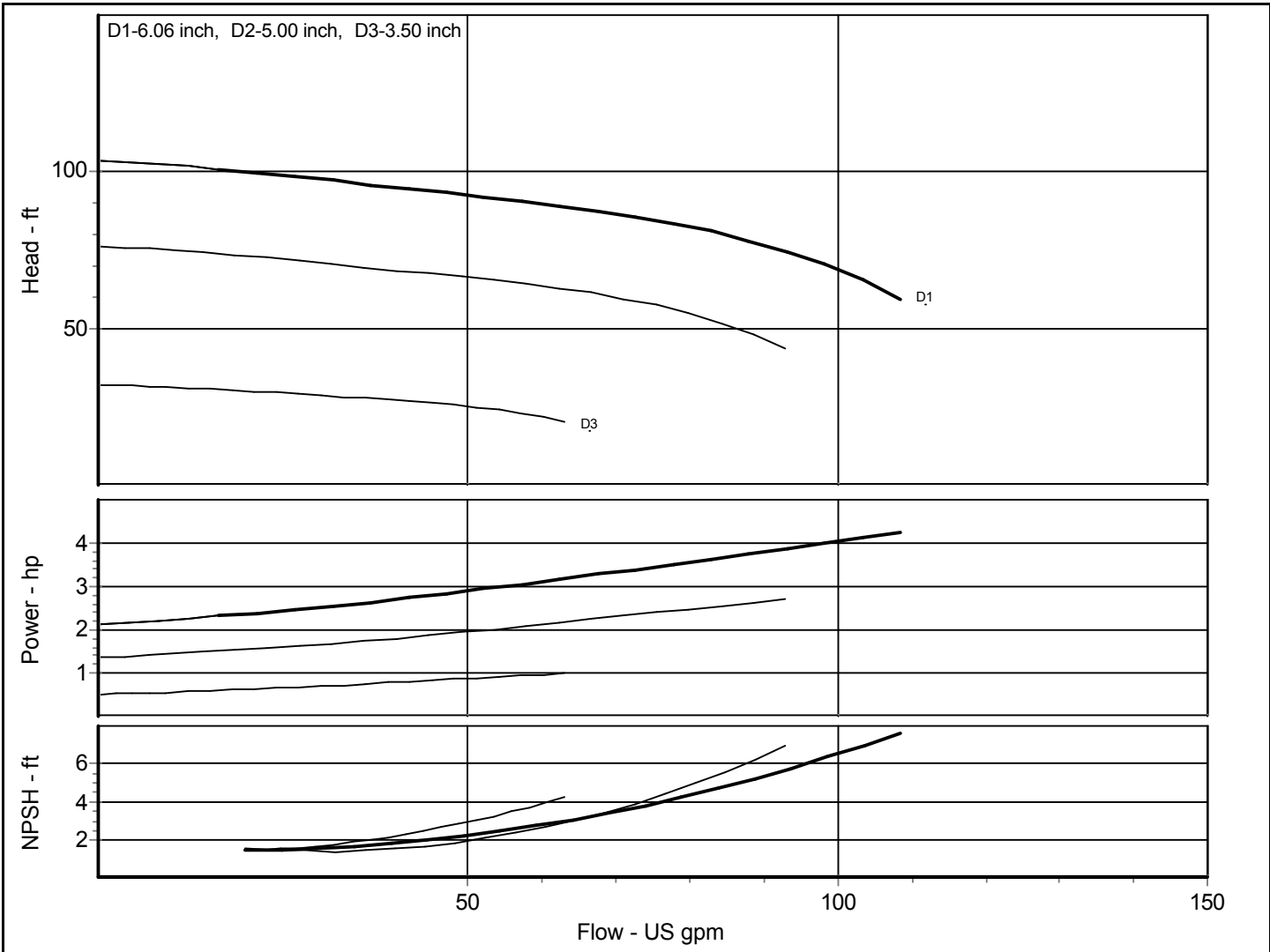


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 1x1.5- 6 STP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>6.06/3.5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz002</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>4.23</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>103.33</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.

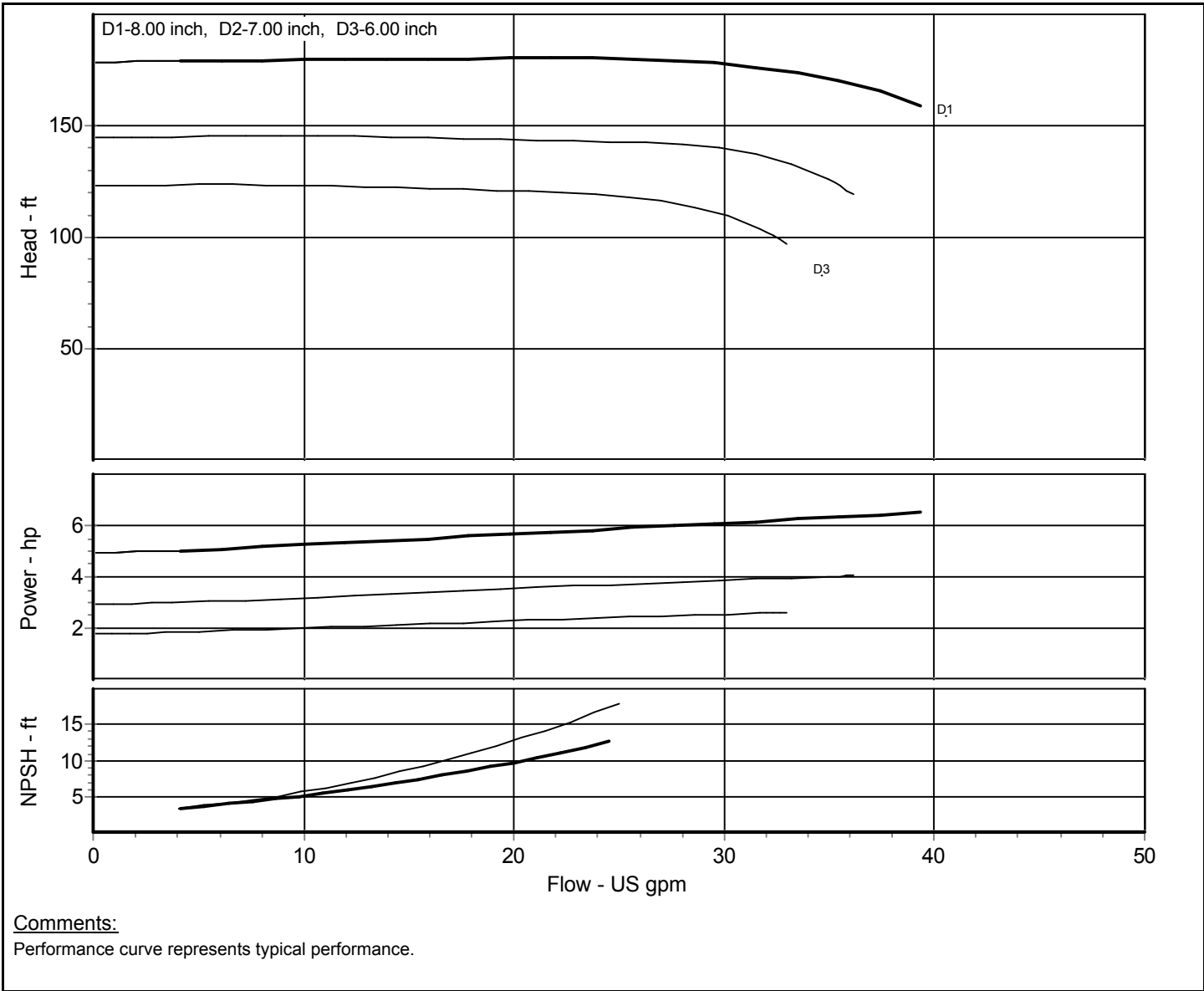


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1x1.5-8 STP 8196LF</b>	Nom. Speed: <b>2950</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196LF-50hz003</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>6.52</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>178.147</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

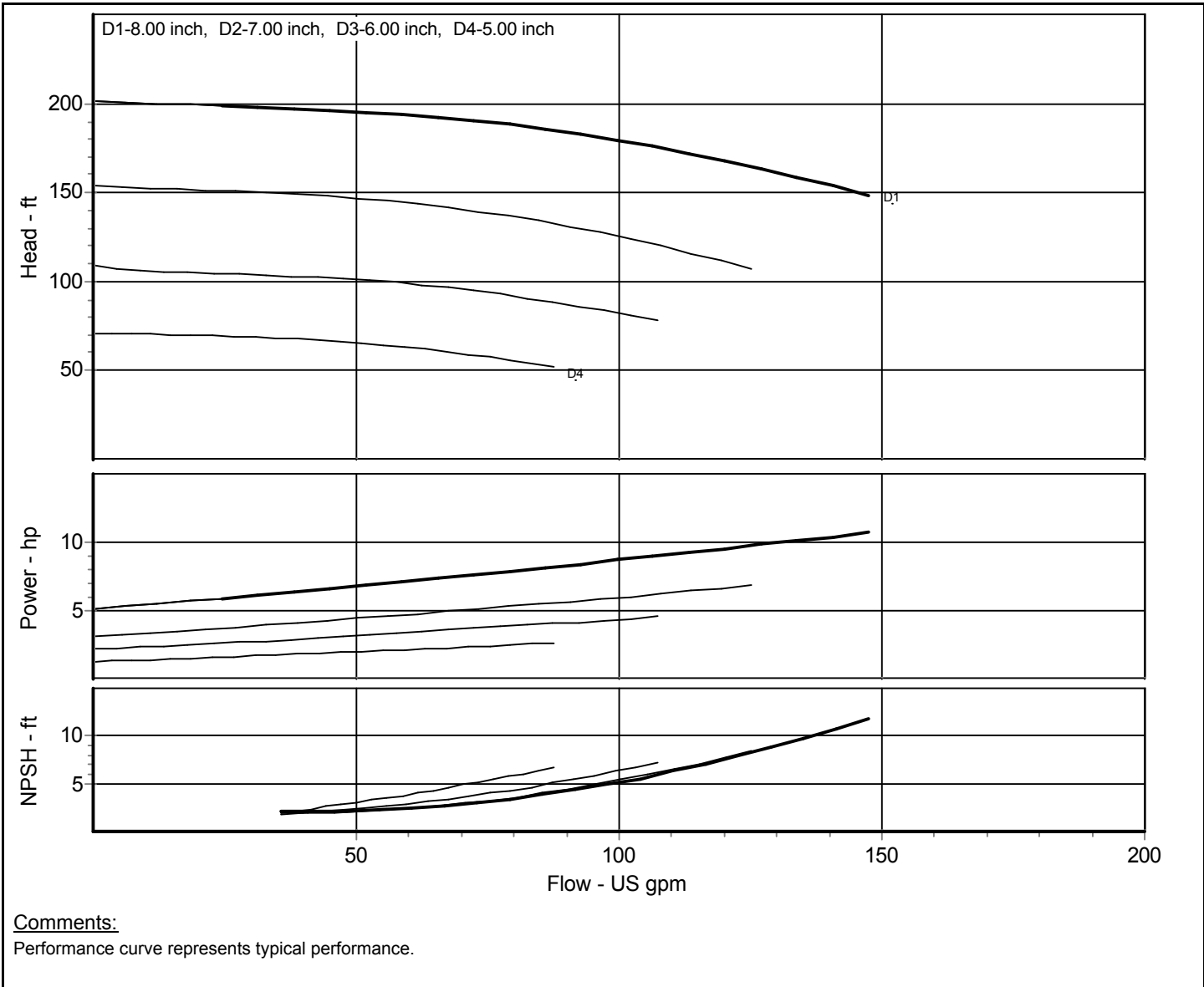


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1x1.5-8 STP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8/5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz006</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>10.73</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>201.317</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 1x2-10 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **2900** RPM, 50 Hz Electric  
 Impeller Dia.: **10/5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-50hz019**

Sp. Gravity: **1.000**

Peak Power: **23.65** hp

Impeller No.

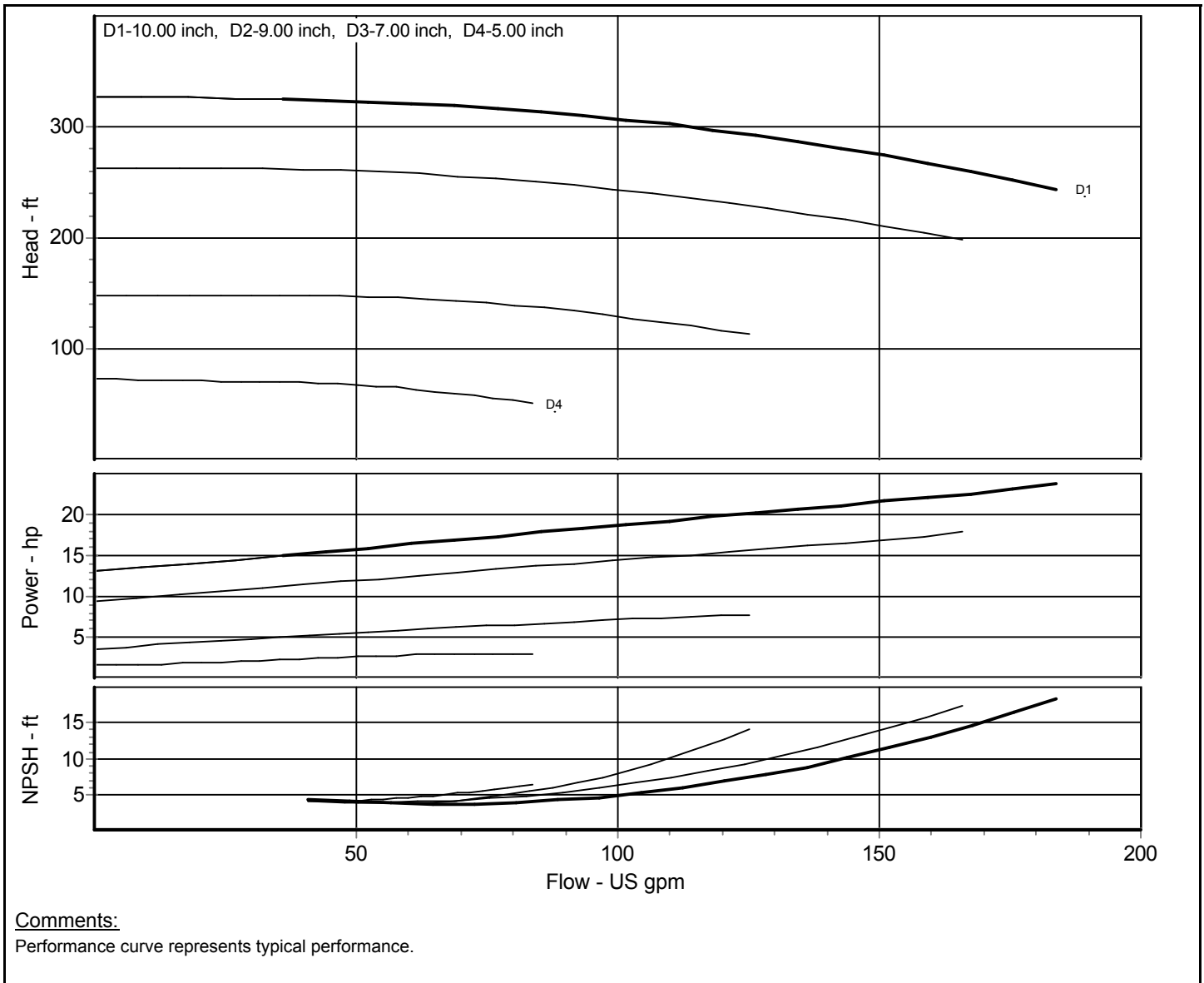
Fluid: **Water**

Closed Valve Pressure **326.994** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 1x2-10 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **2900** RPM, 50 Hz Electric  
 Impeller Dia.: **10/5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-50hz019**

Sp. Gravity: **1.000**

Peak Power: **23.65** hp

Impeller No.

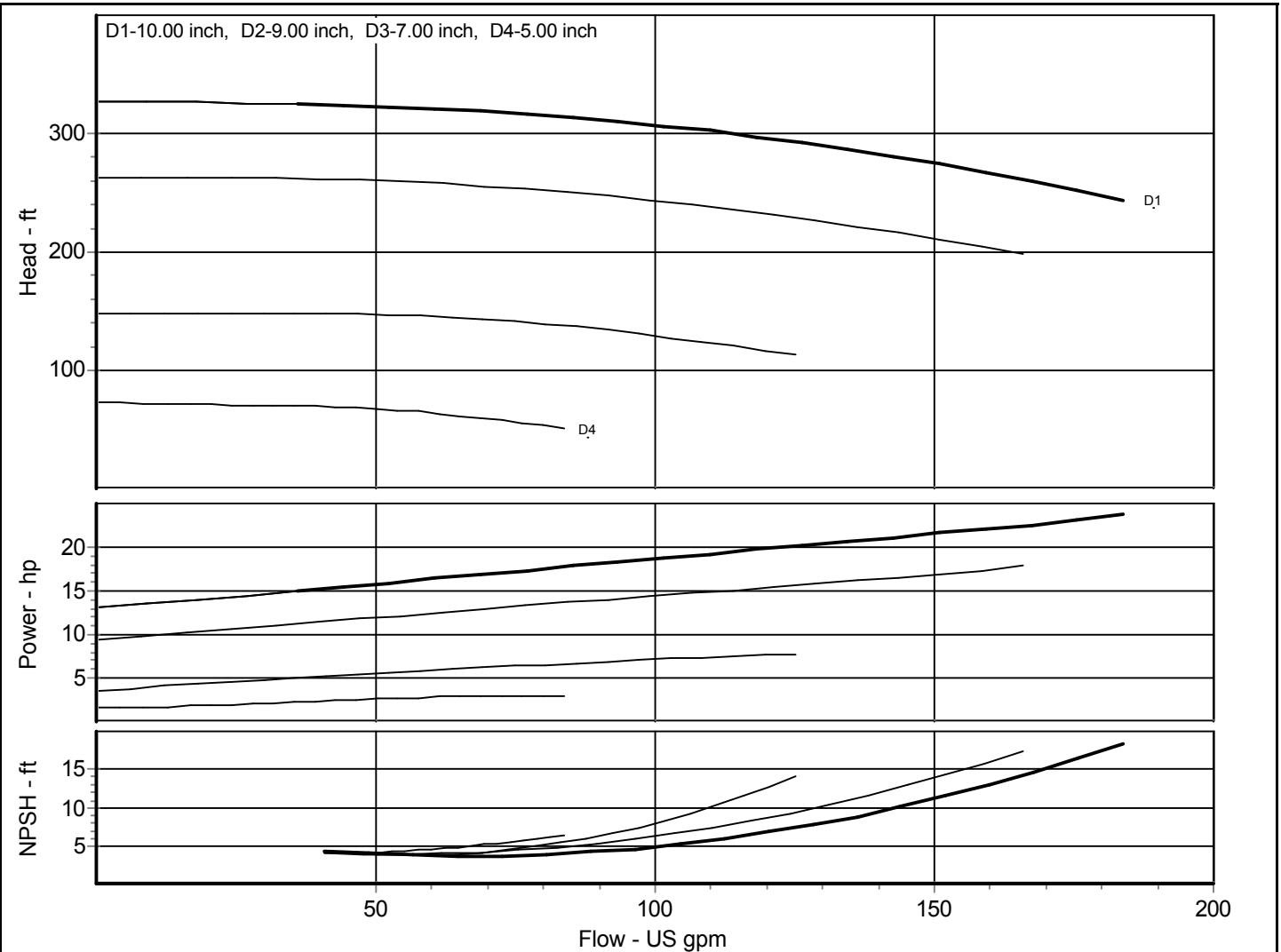
Fluid: **Water**

Closed Valve Pressure **326.994** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



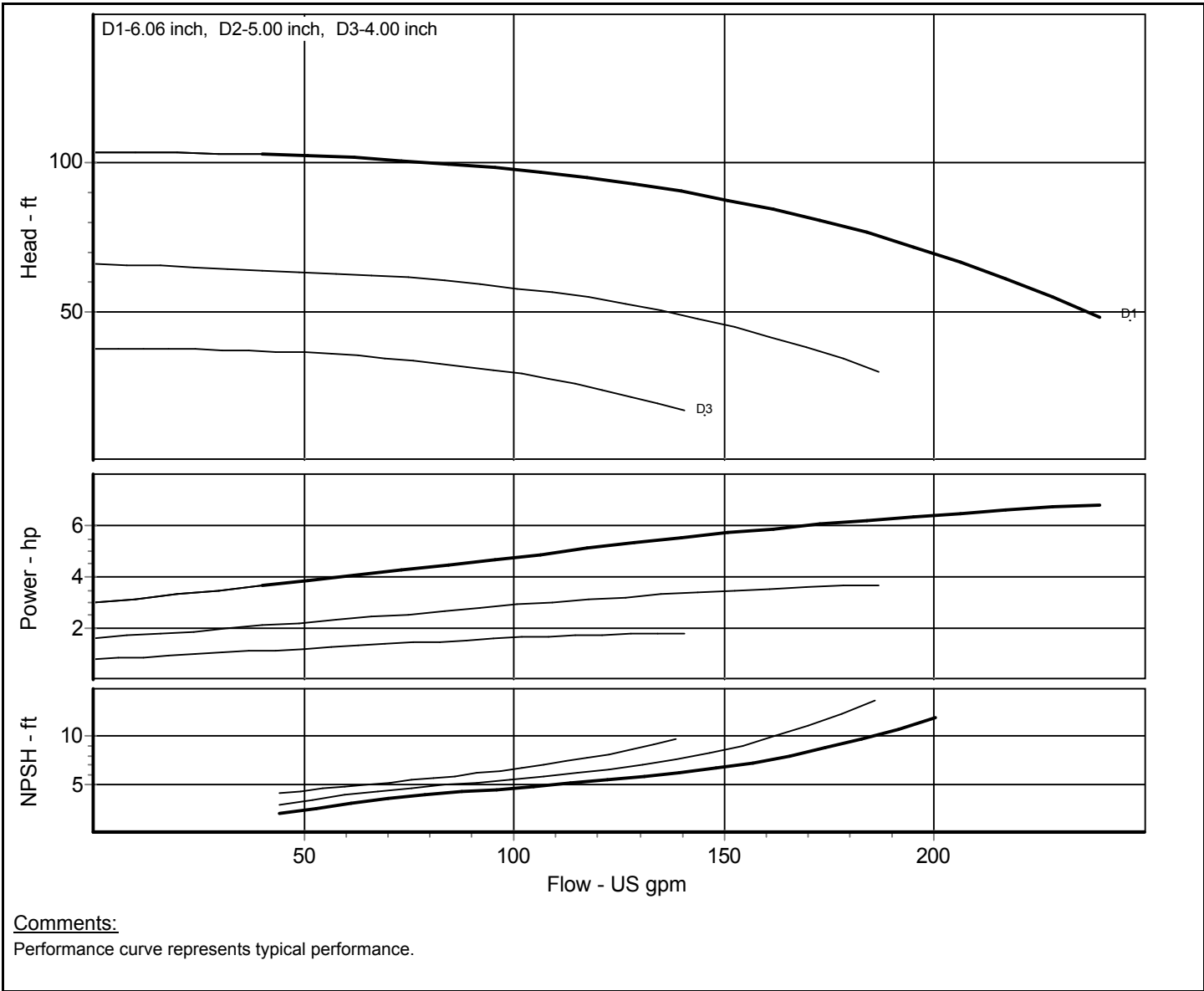


Customer :

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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 1.5x3-6 STP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>6.06/4</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz004</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>6.78</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>103.362</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 1.5x3-8 STP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **2900** RPM, 50 Hz Electric  
 Impeller Dia.: **8/5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-50hz008**

Sp. Gravity: **1.000**

Peak Power: **14.76** hp

Impeller No.

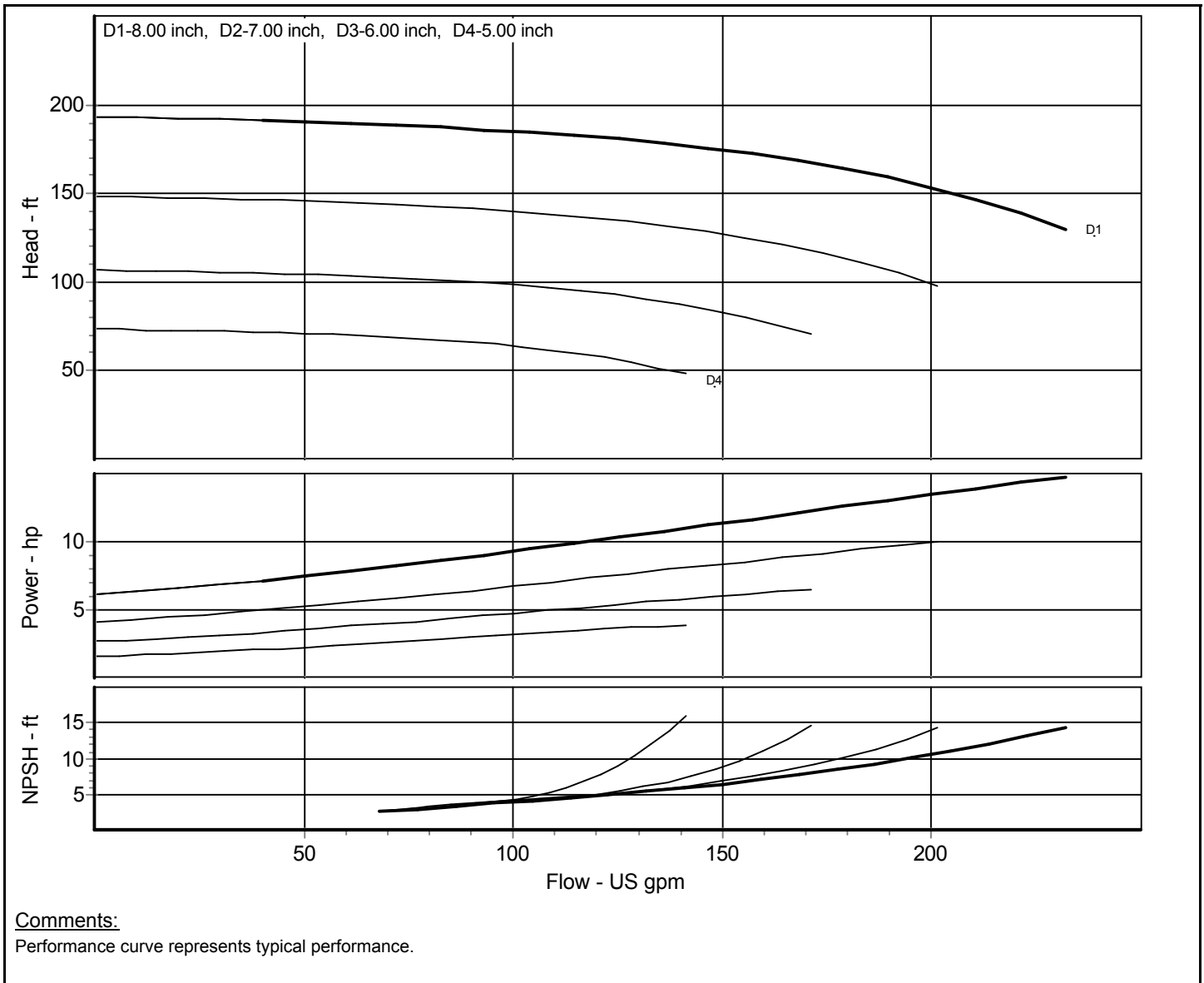
Fluid: **Water**

Closed Valve Pressure **193.43** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



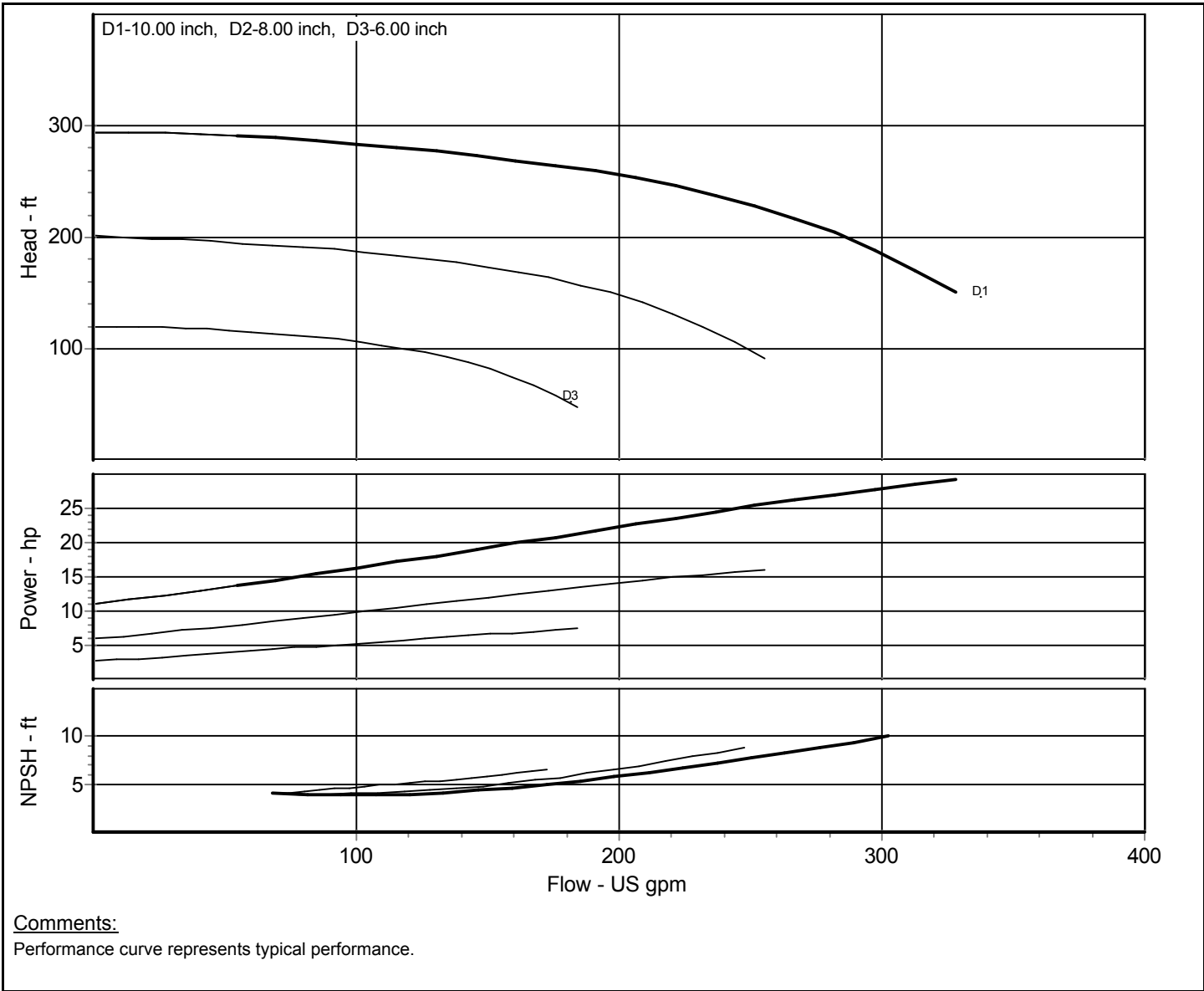


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1.5x3-10 MTP 8196** Nom. Speed: **2900** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **10/6** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **29.29** hp  
 Fluid: **Water** Closed Valve Pressure **293.767** ft  
 Curve No.: **8196-50hz021**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.



Peerless Pump Company, LLC  
 Indianapolis, Indiana 46207-7026

Customer :

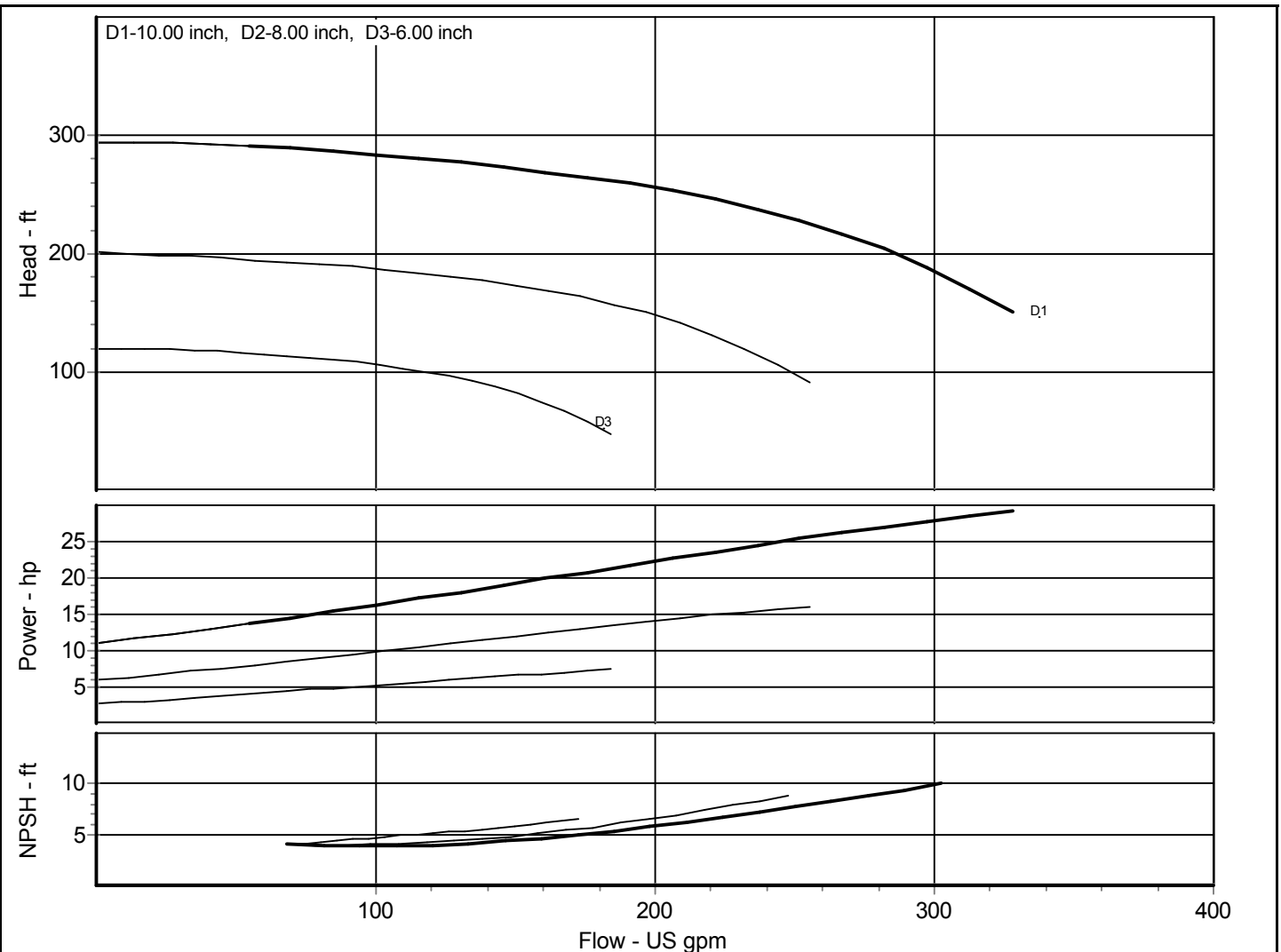
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 1.5x3-10 LTP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz021</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>29.29</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>293.767</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.

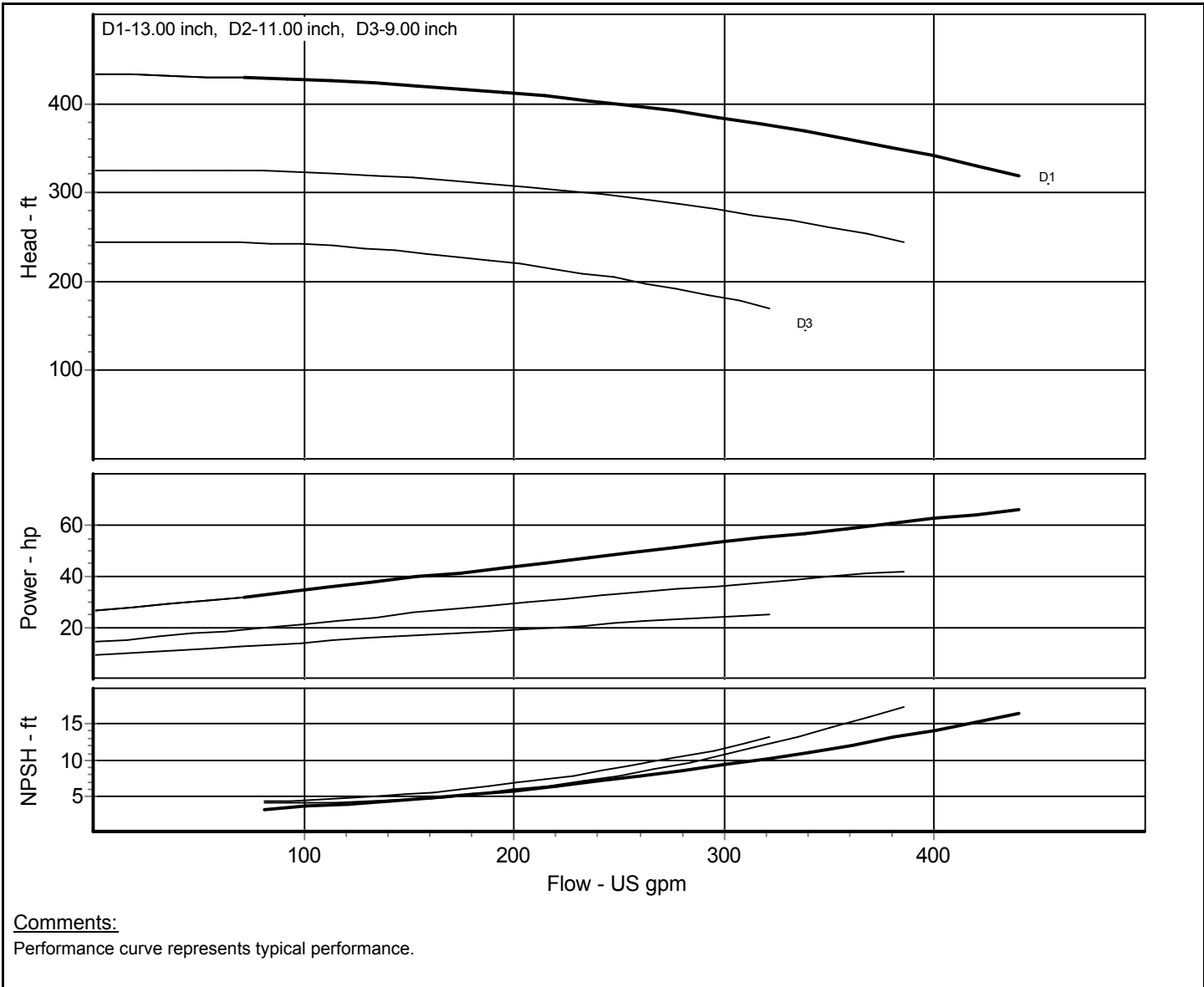


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<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 1.5x3-13 MTP 8196</b>	Nom. Speed: <b>2900 RPM, 50 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-50hz029</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>66.19 hp</b>	
Item : <b>1</b>		Closed Valve Pressure <b>433.723 ft</b>	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.

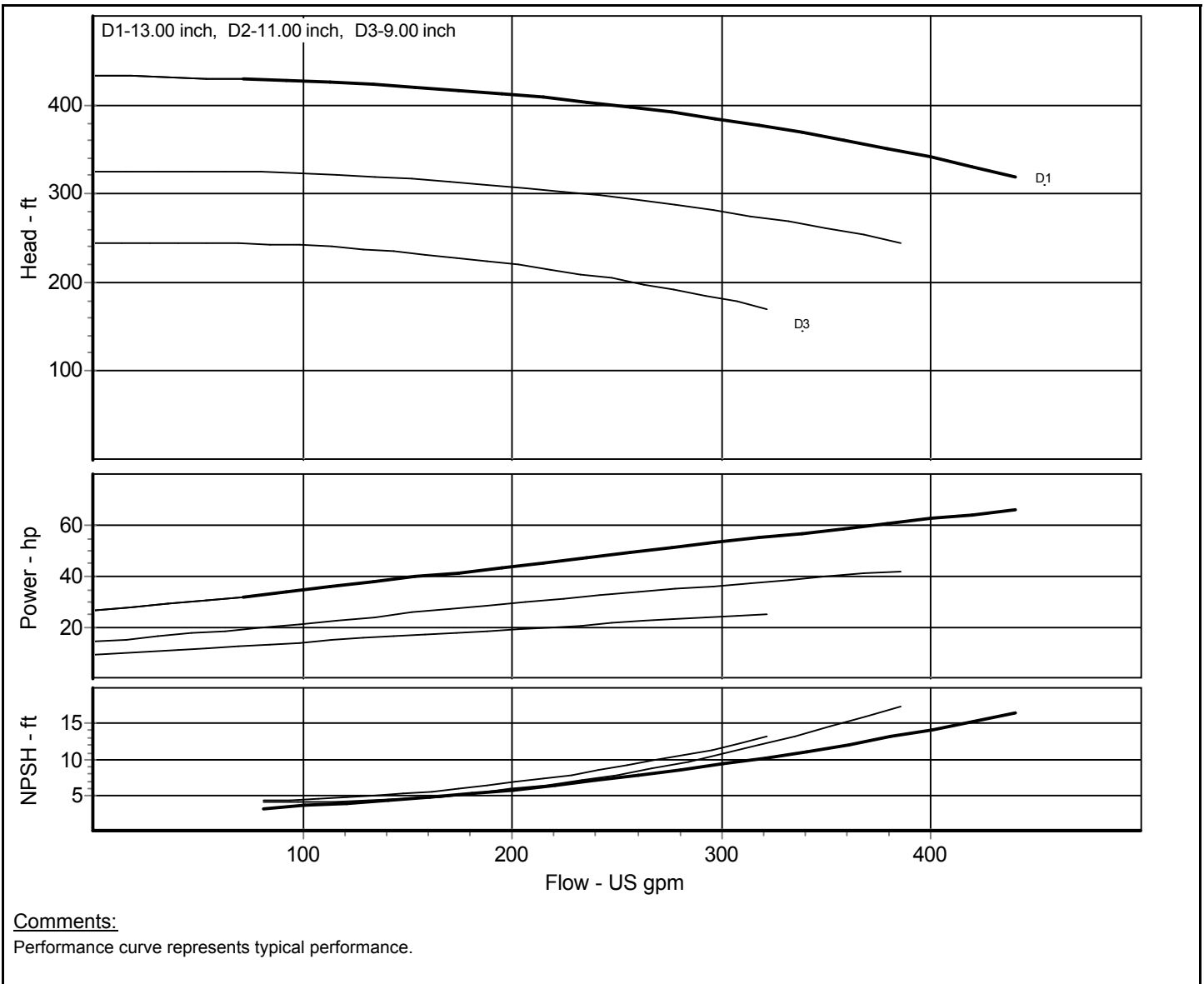


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1.5x3-13 LTP 8196** Nom. Speed: **2900** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/9** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **66.19** hp  
 Fluid: **Water** Closed Valve Pressure **433.723** ft  
 Curve No.: **8196-50hz029**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



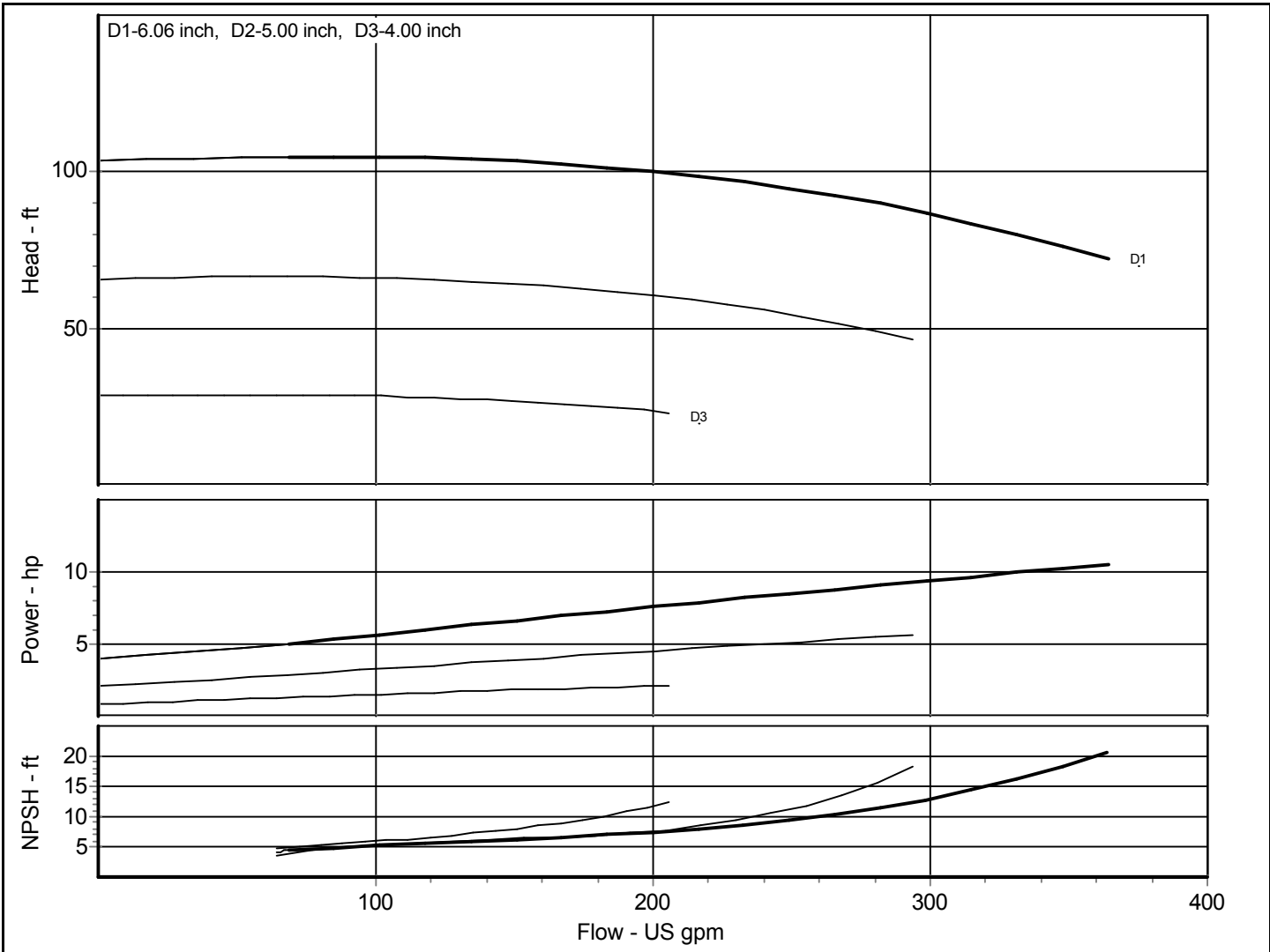


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-6 STP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>6.06/4</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz009</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>10.54</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>103.336</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

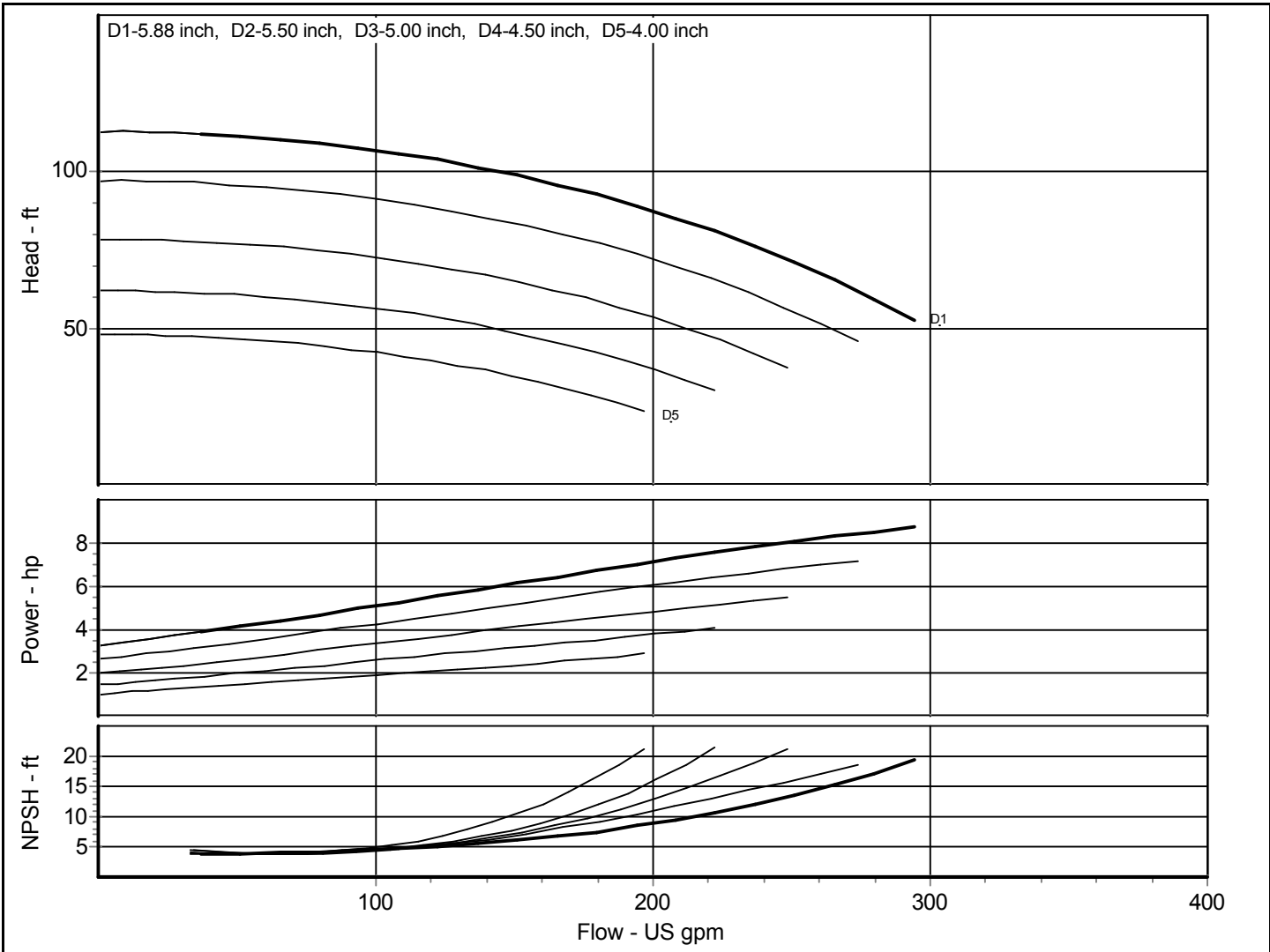


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 2x3-6 MTP 8196** Nom. Speed: **2900** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **5.88/4** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **8.73** hp  
 Fluid: **Water** Closed Valve Pressure **112.751** ft  
 Curve No.: **8196-50hz012**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-8 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **2900** RPM, 50 Hz Electric  
 Impeller Dia.: **8.38/5.5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-50hz013**

Sp. Gravity: **1.000**

Peak Power: **21.16** hp

Impeller No.

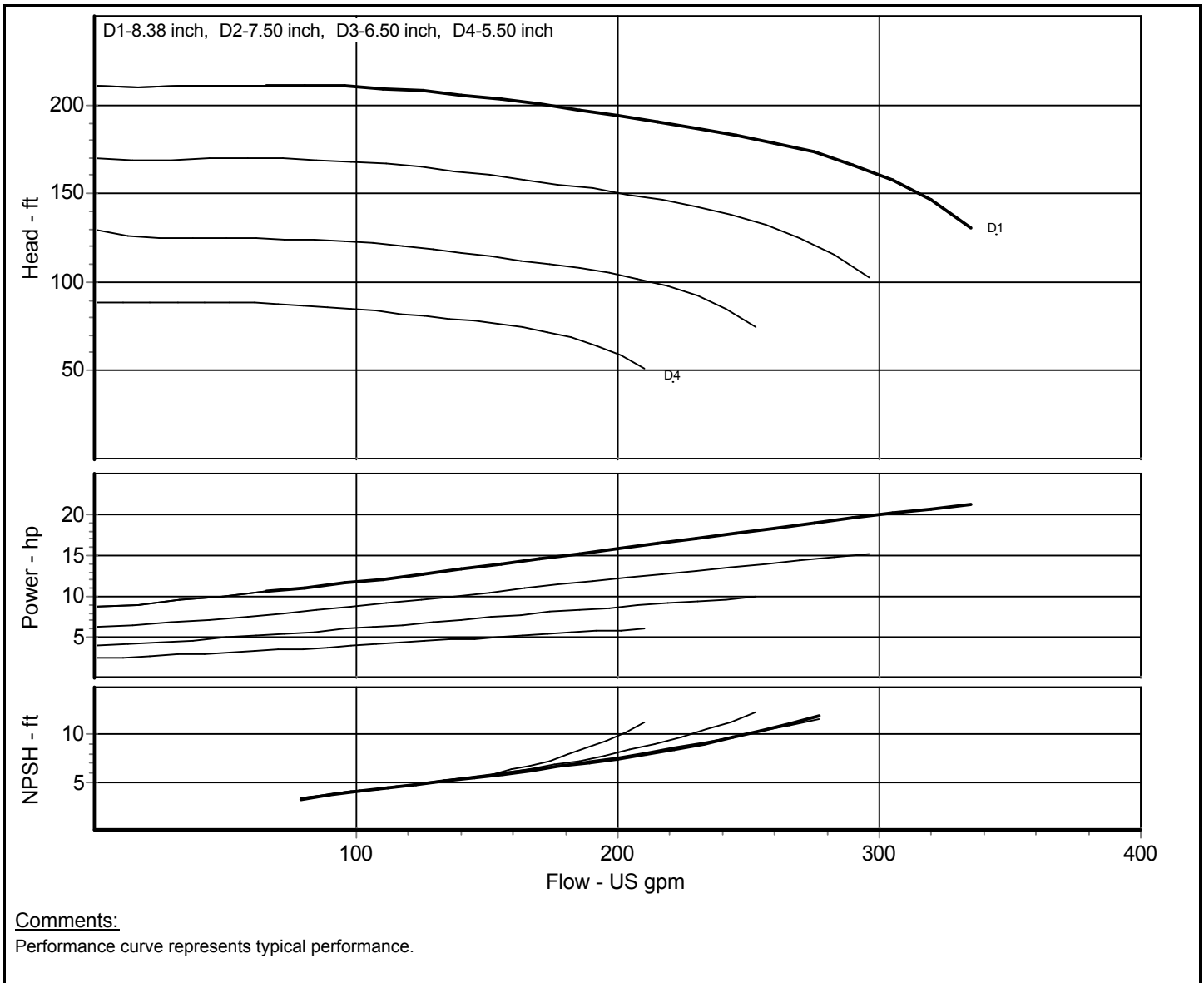
Fluid: **Water**

Closed Valve Pressure **210.937** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



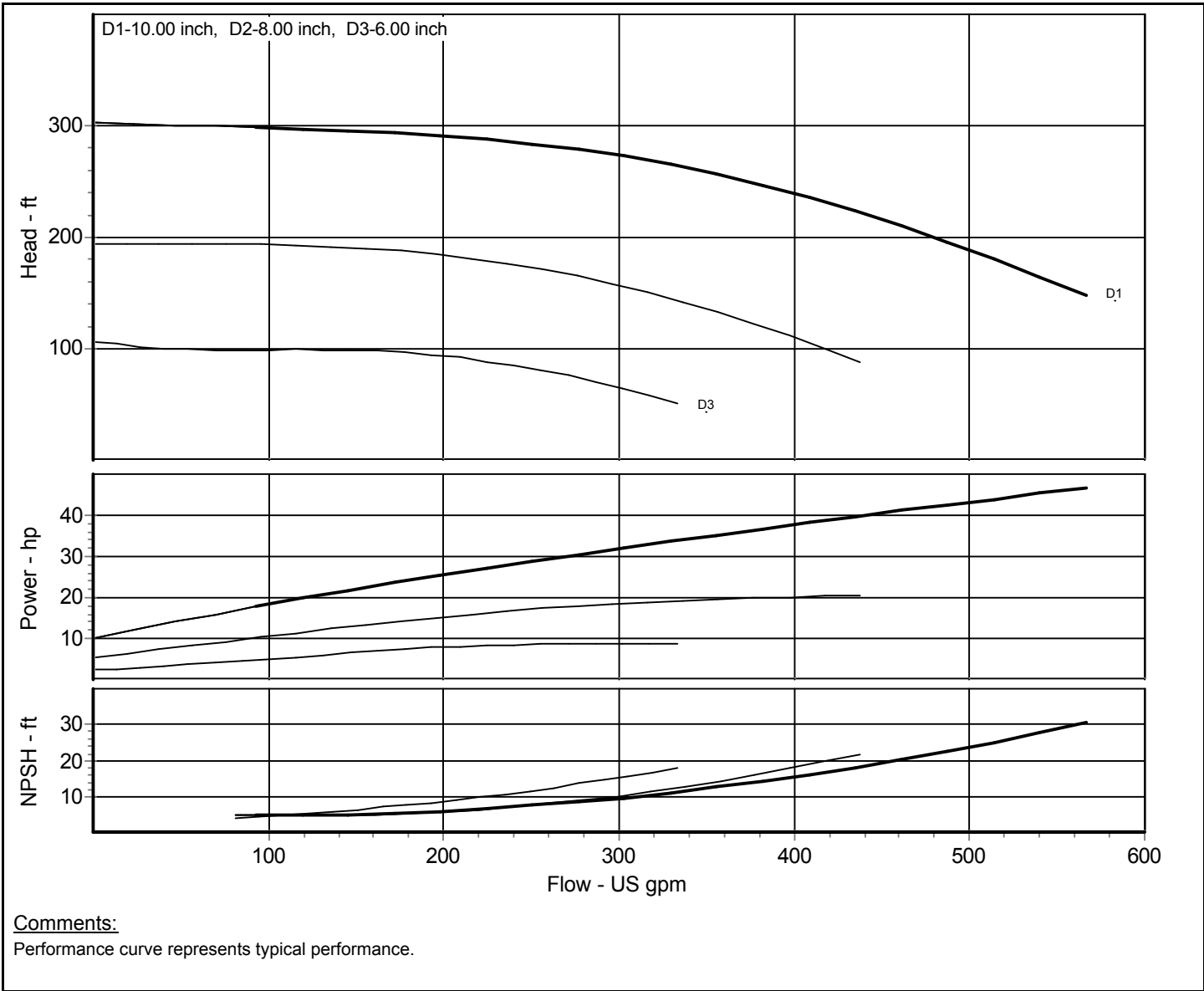


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-10 MTP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz023</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>46.55</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>303.571</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



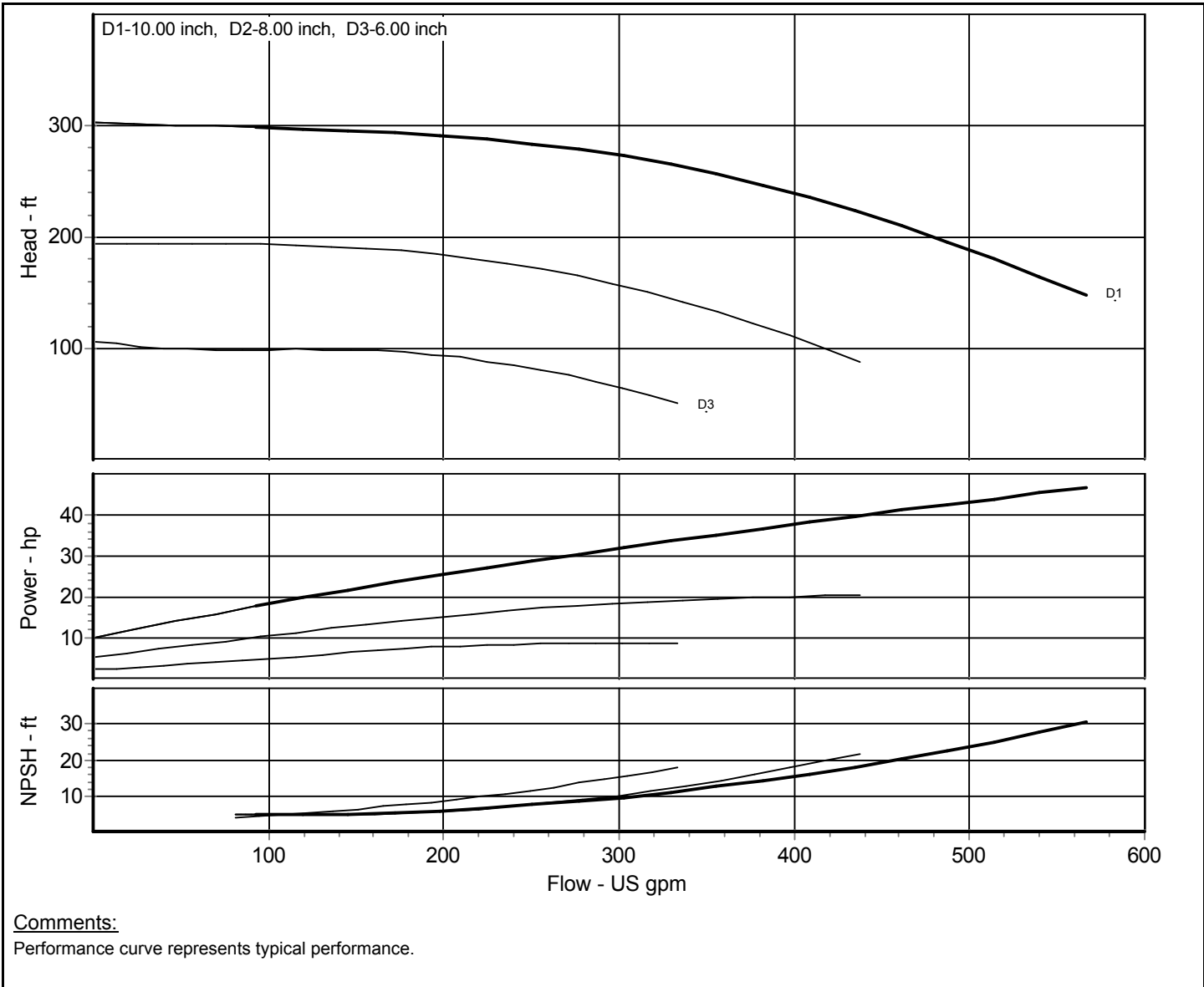


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-10 LTP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz023</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>46.55</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>303.571</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



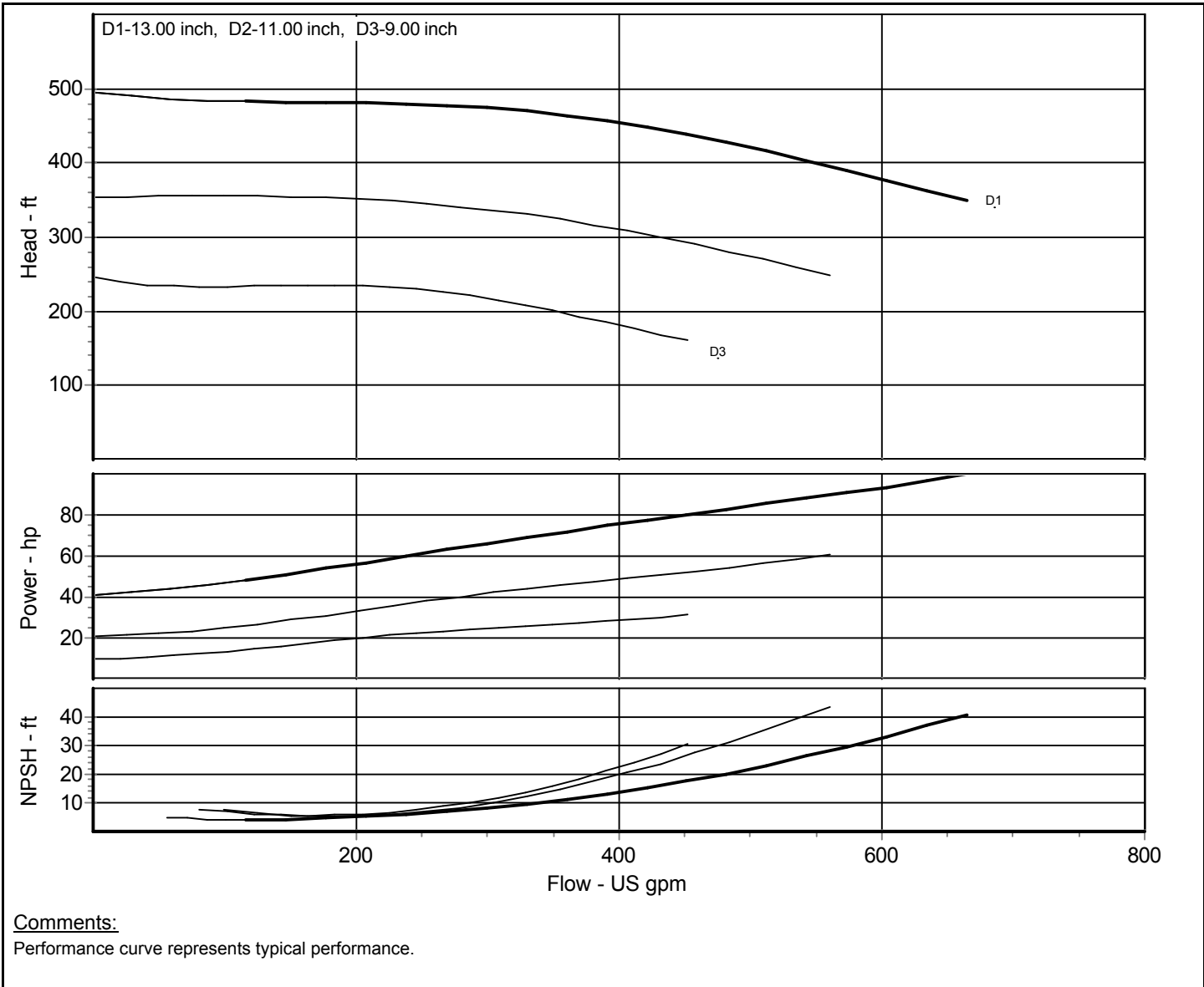


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-13 LTP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz032</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>99.84</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>494.663</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



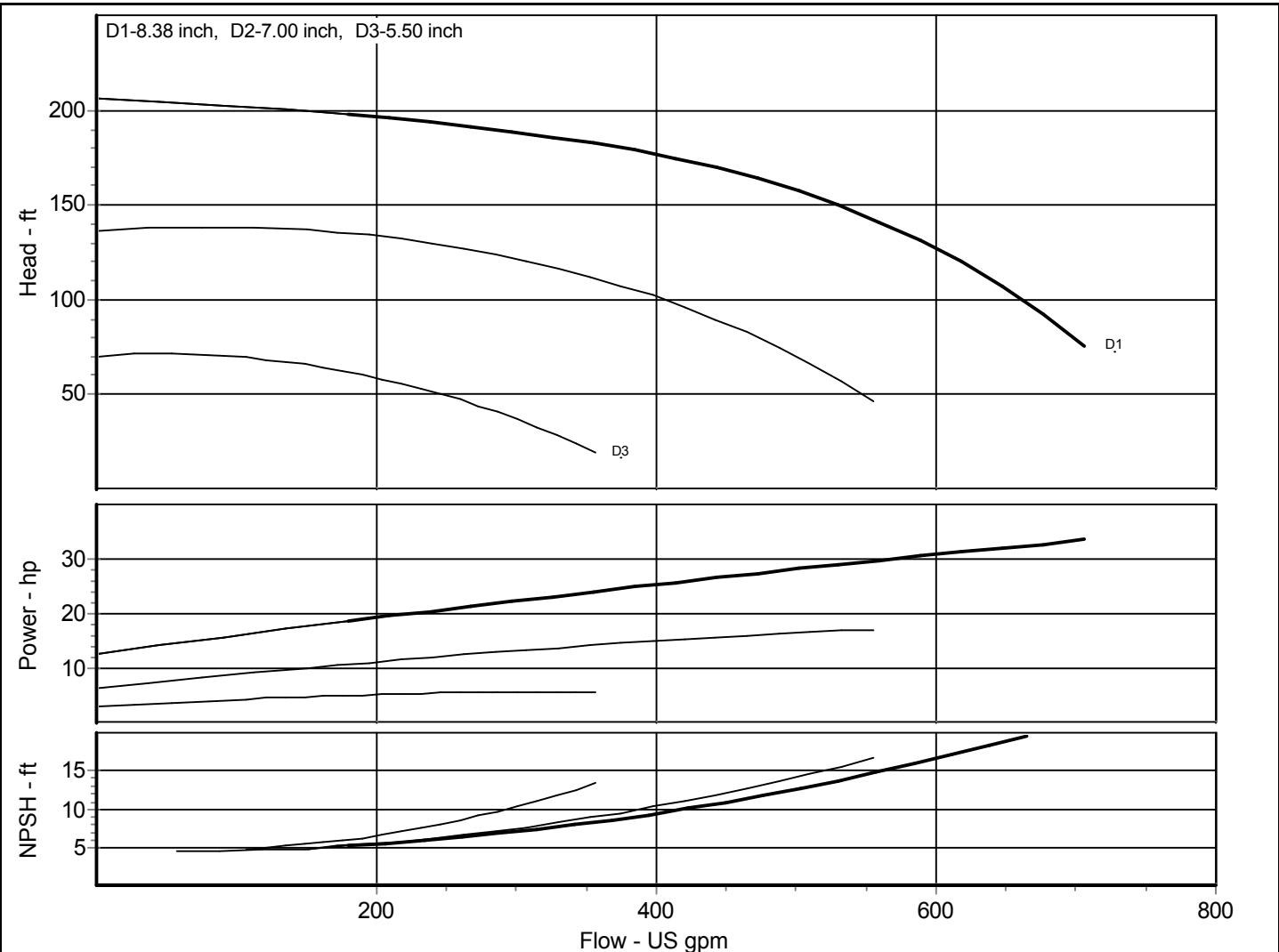


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 3x4-8G MTP 8196** Nom. Speed: **2900** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **8.38/5.5** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **33.56** hp  
 Fluid: **Water** Closed Valve Pressure **206.013** ft  
 Curve No.: **8196-50hz017**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.

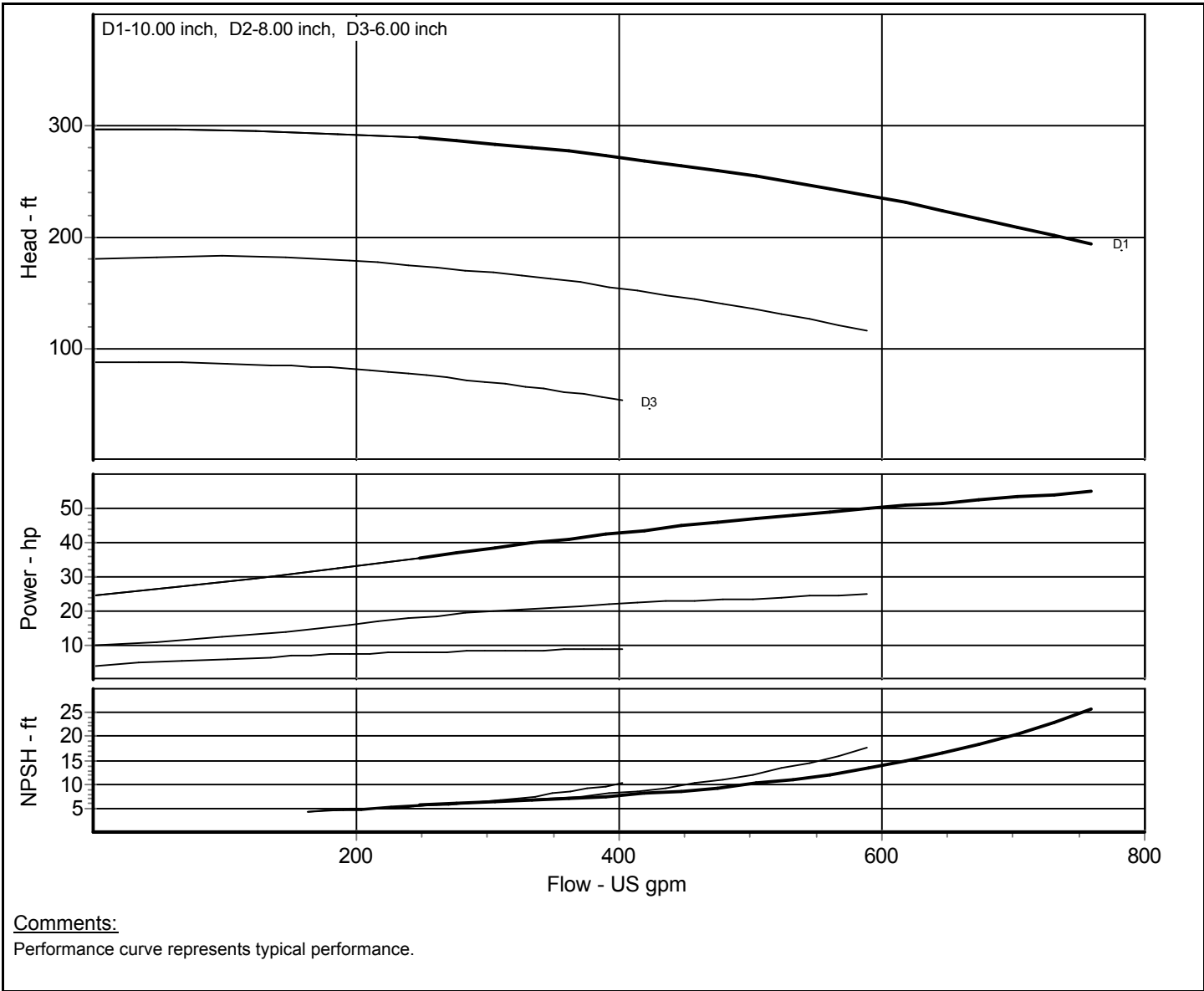


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 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 3x4-10 MTP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz025</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>54.96</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>297.631</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



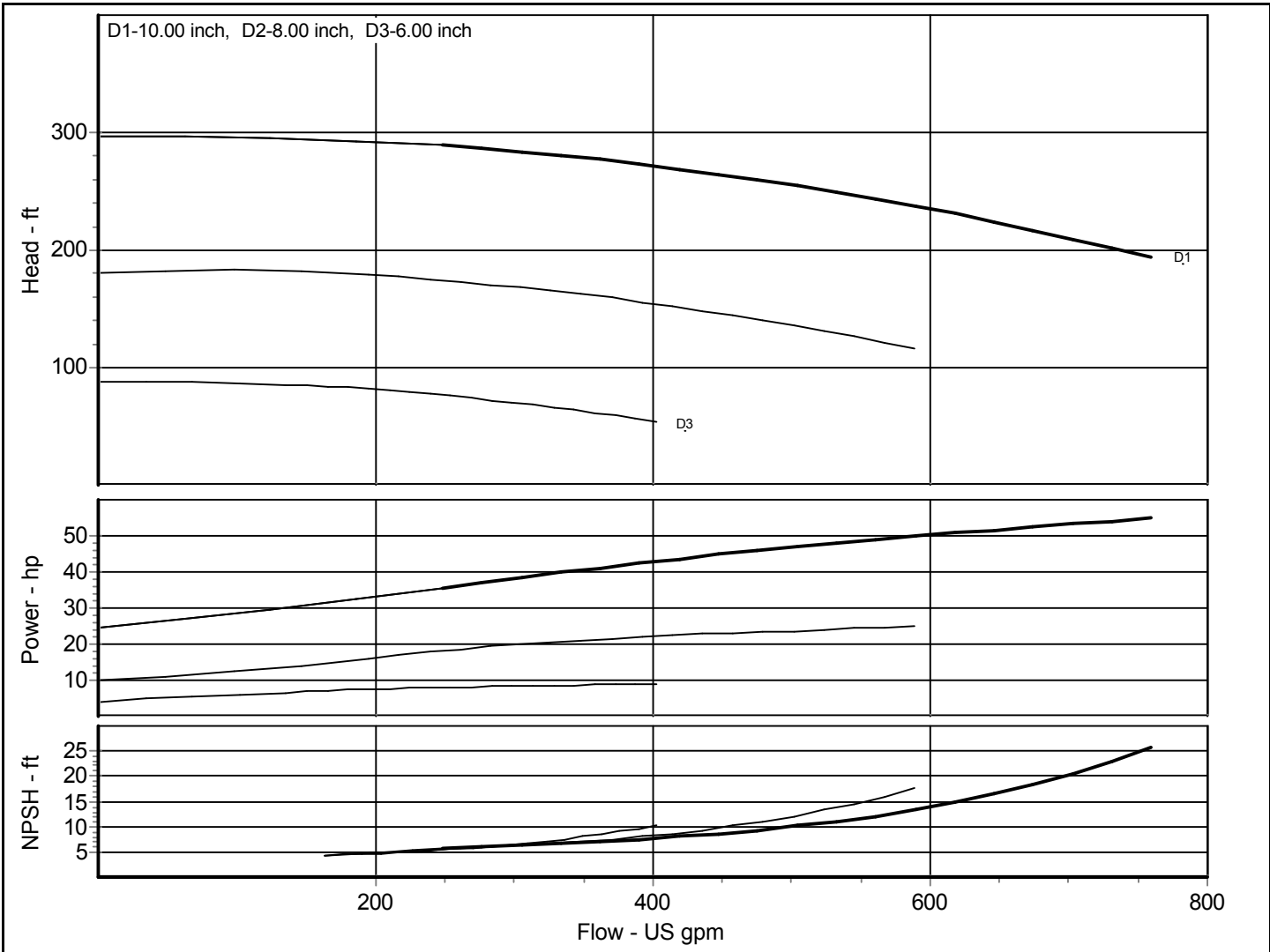


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 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 3x4-10 LTP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz025</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>54.96</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>297.631</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

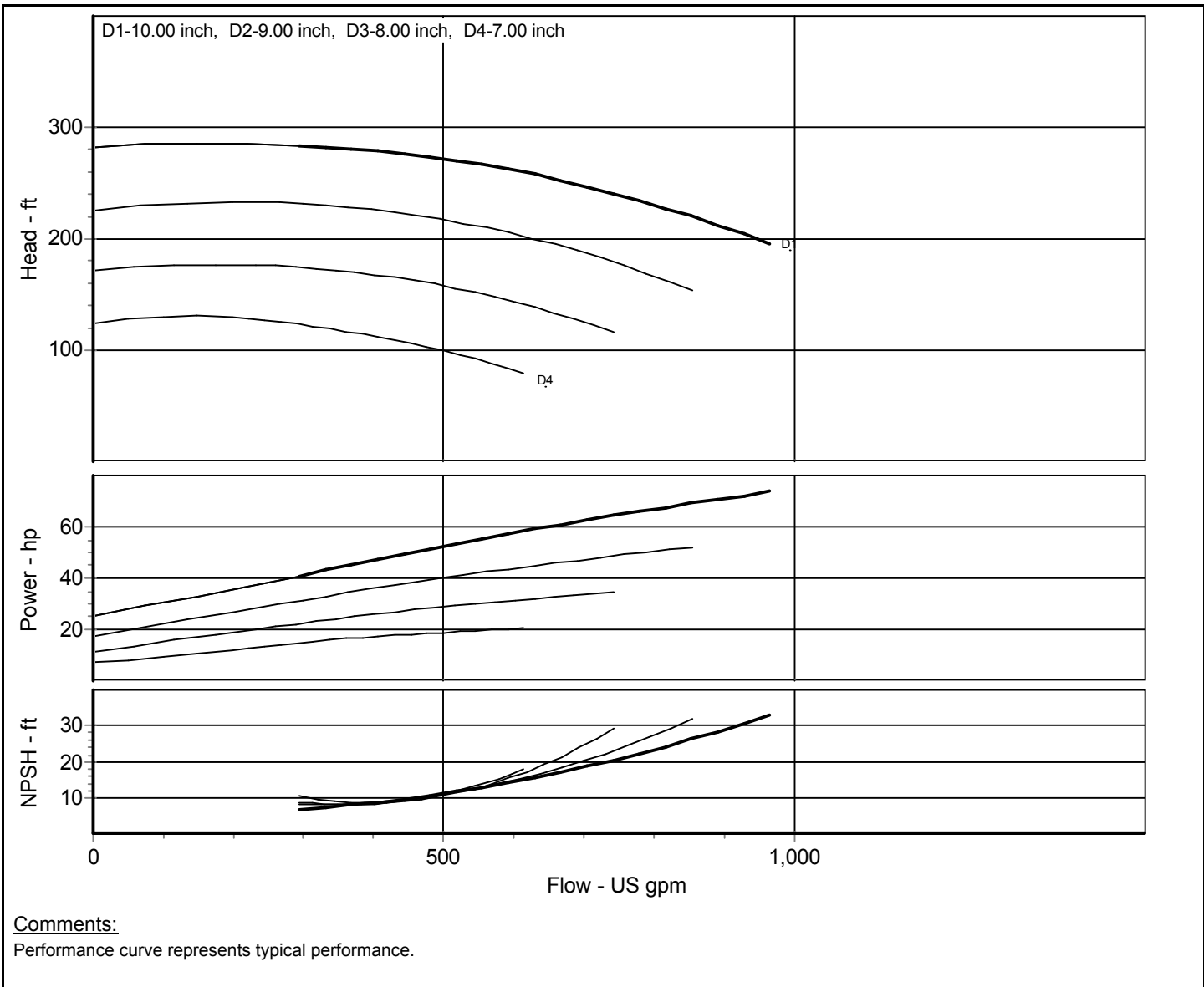


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model:	<b>Peerless - 3x4-13 5V MTP 8196</b>	Nom. Speed:	<b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type:	<b>8196 - ANSI Standard End Suction</b>	Impeller Dia.:	<b>10/7</b> inch	Duty Head :	ft
		Temperature:	<b>68</b> °F	Efficiency :	%
		Viscosity:	<b>1.009</b> cP	Power Required :	hp
Curve No.:	<b>8196-50hz035</b>	Sp. Gravity:	<b>1.000</b>	NPSH Required :	ft
Impeller No.		Fluid:	<b>Water</b>	Peak Power:	<b>73.84</b> hp
Item :	<b>1</b>			Closed Valve Pressure	<b>282.275</b> ft
Your Ref.:		Tolerance :	<b>Hyd Inst-Peerless Std</b>		





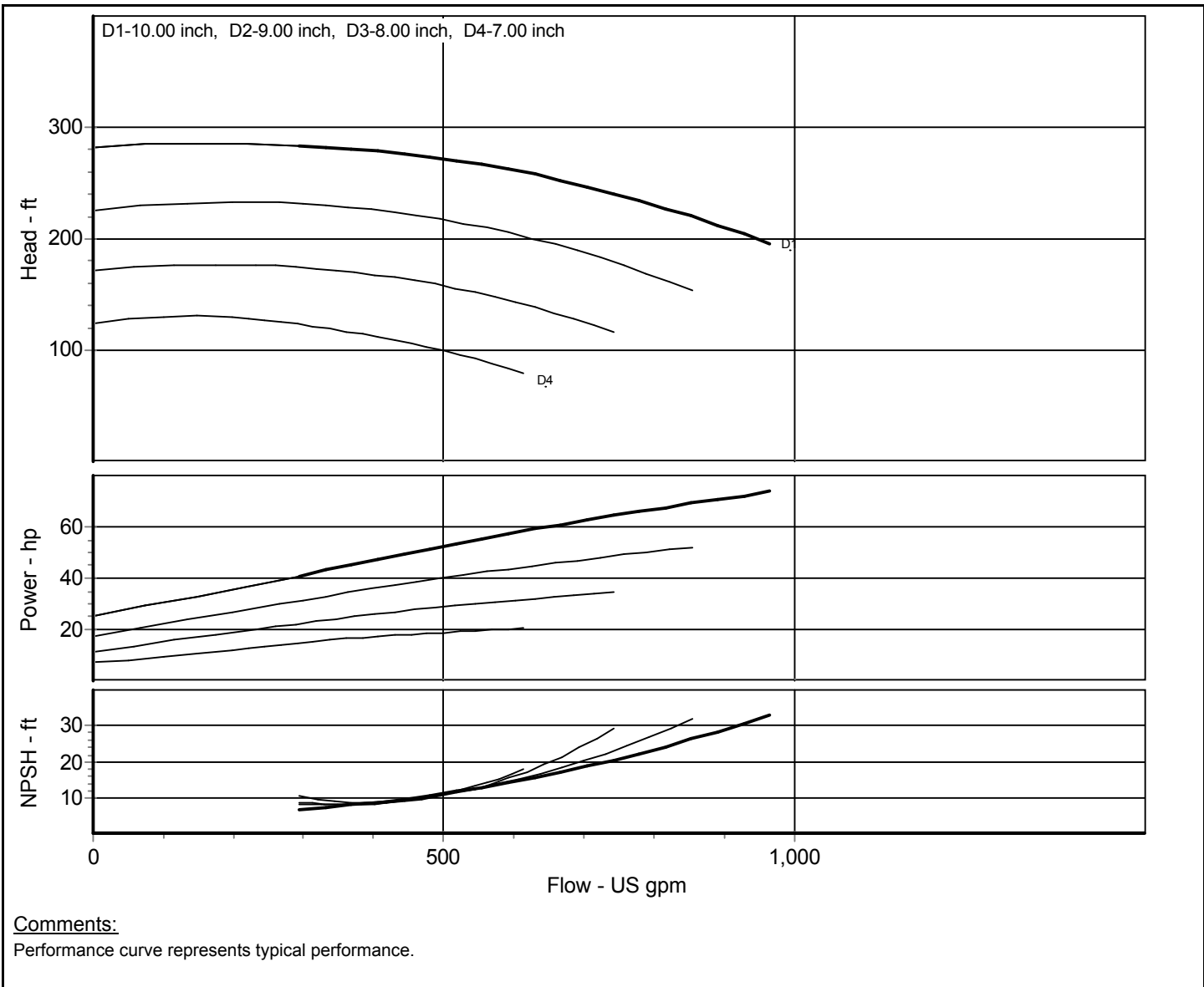


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 3x4-13 5V LTP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/7</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz035</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>73.84</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>282.275</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



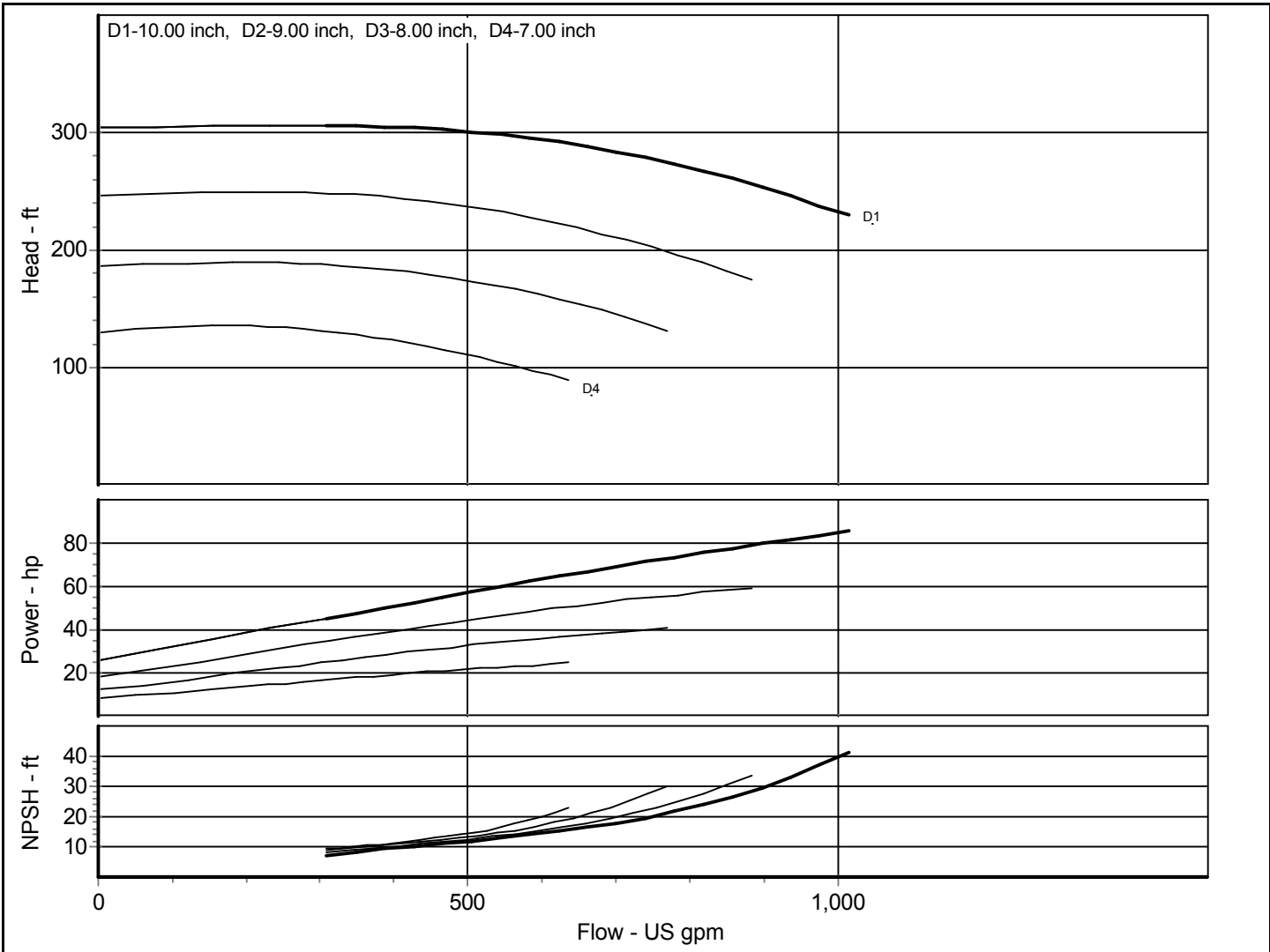


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 3x4-13 6V MTP 8196</b>	Nom. Speed: <b>2900</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/7</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz038</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>85.46</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>304.967</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.

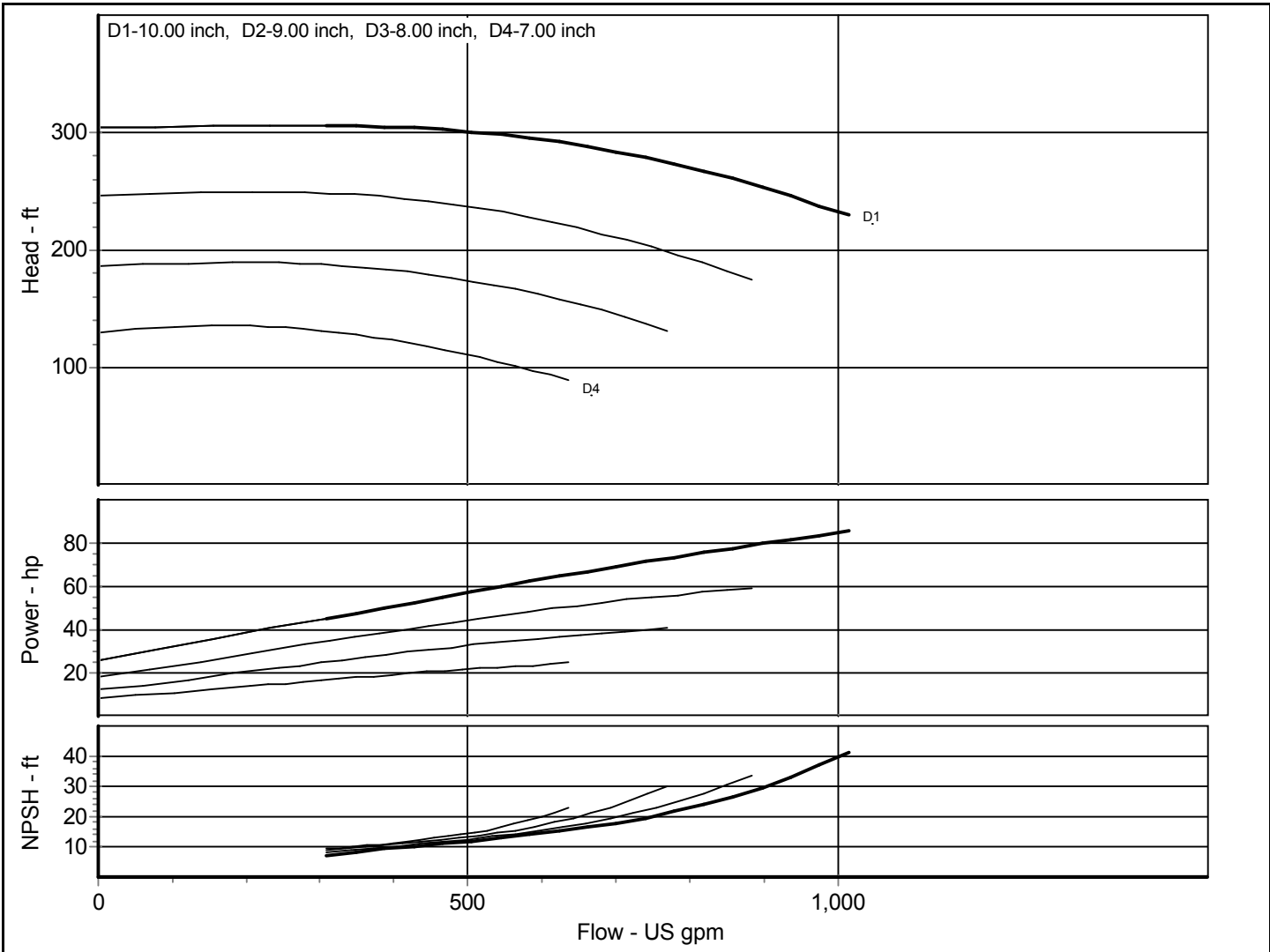


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 3x4-13 6V LTP 8196** Nom. Speed: **2900** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **10/7** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Curve No.: **8196-50hz038** Sp. Gravity: **1.000** Peak Power: **85.46** hp  
 Impeller No. Fluid: **Water** Closed Valve Pressure **304.967** ft  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.

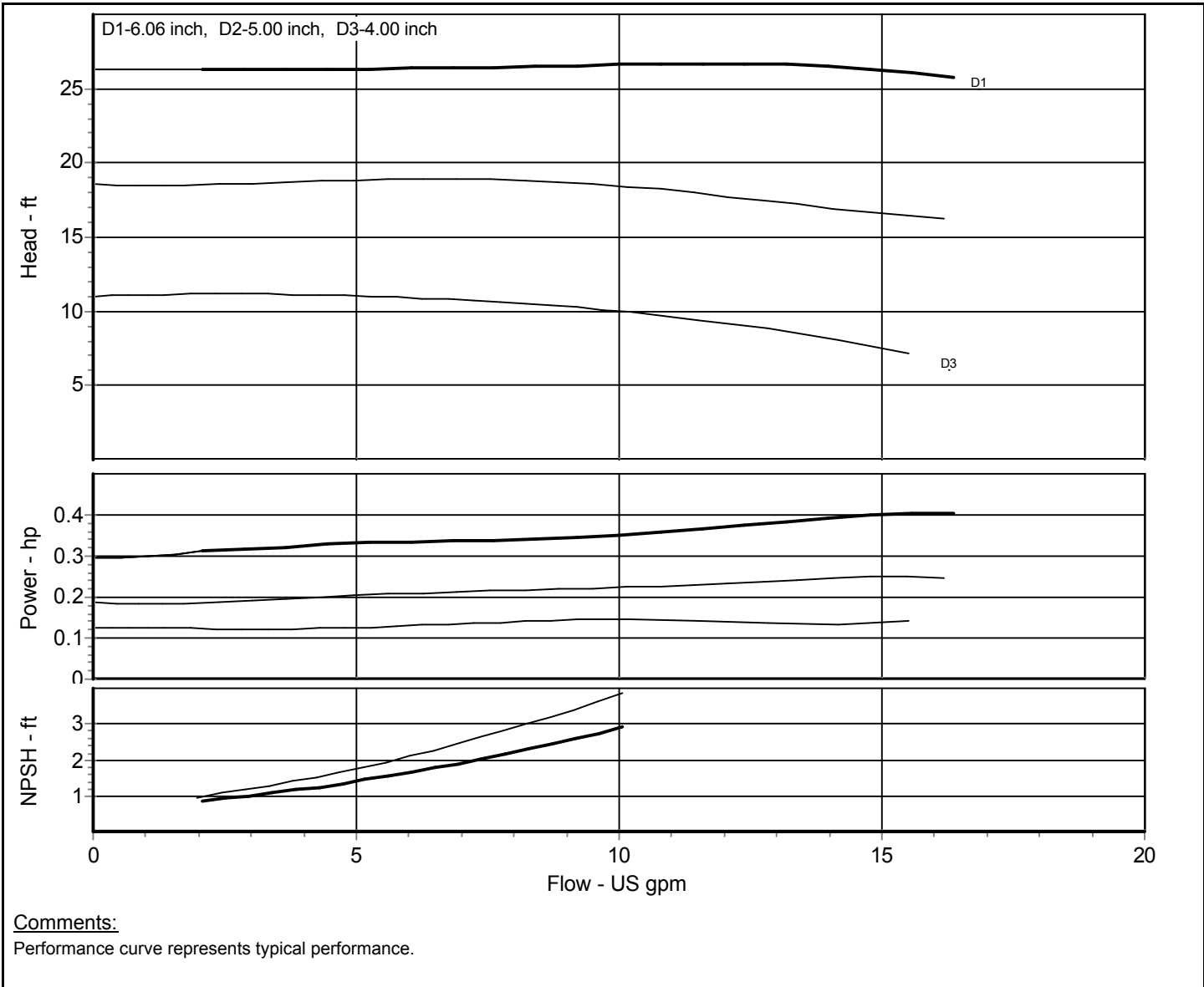


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1x1.5-6 STP 8196LF</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>6.06/4</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196LF-50hz002</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>0.41</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>26.306</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



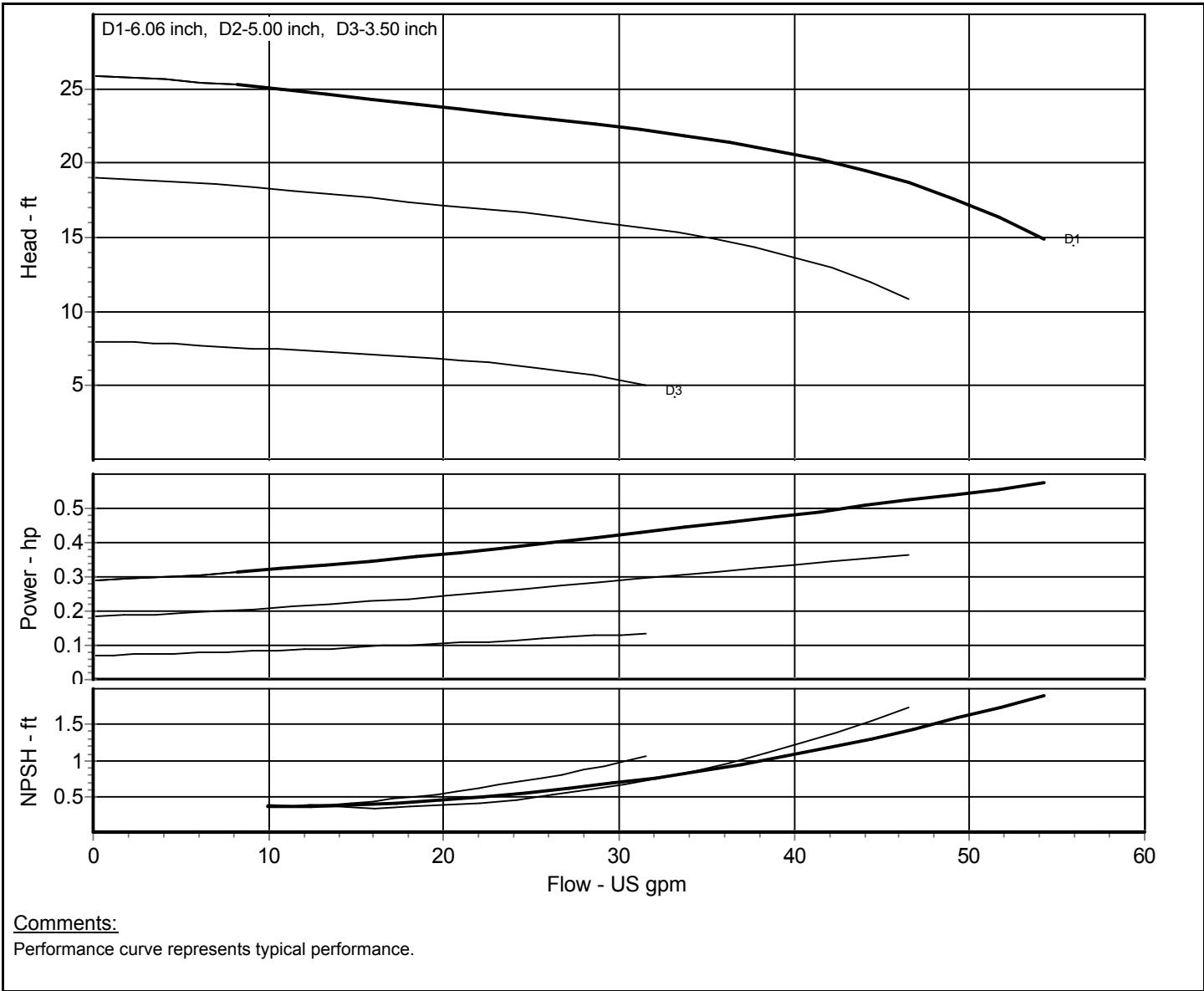


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1x1.5- 6 STP 8196** Nom. Speed: **1450** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **6.06/3.5** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **0.57** hp  
 Fluid: **Water** Closed Valve Pressure **25.833** ft  
 Curve No.: **8196-50hz001**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



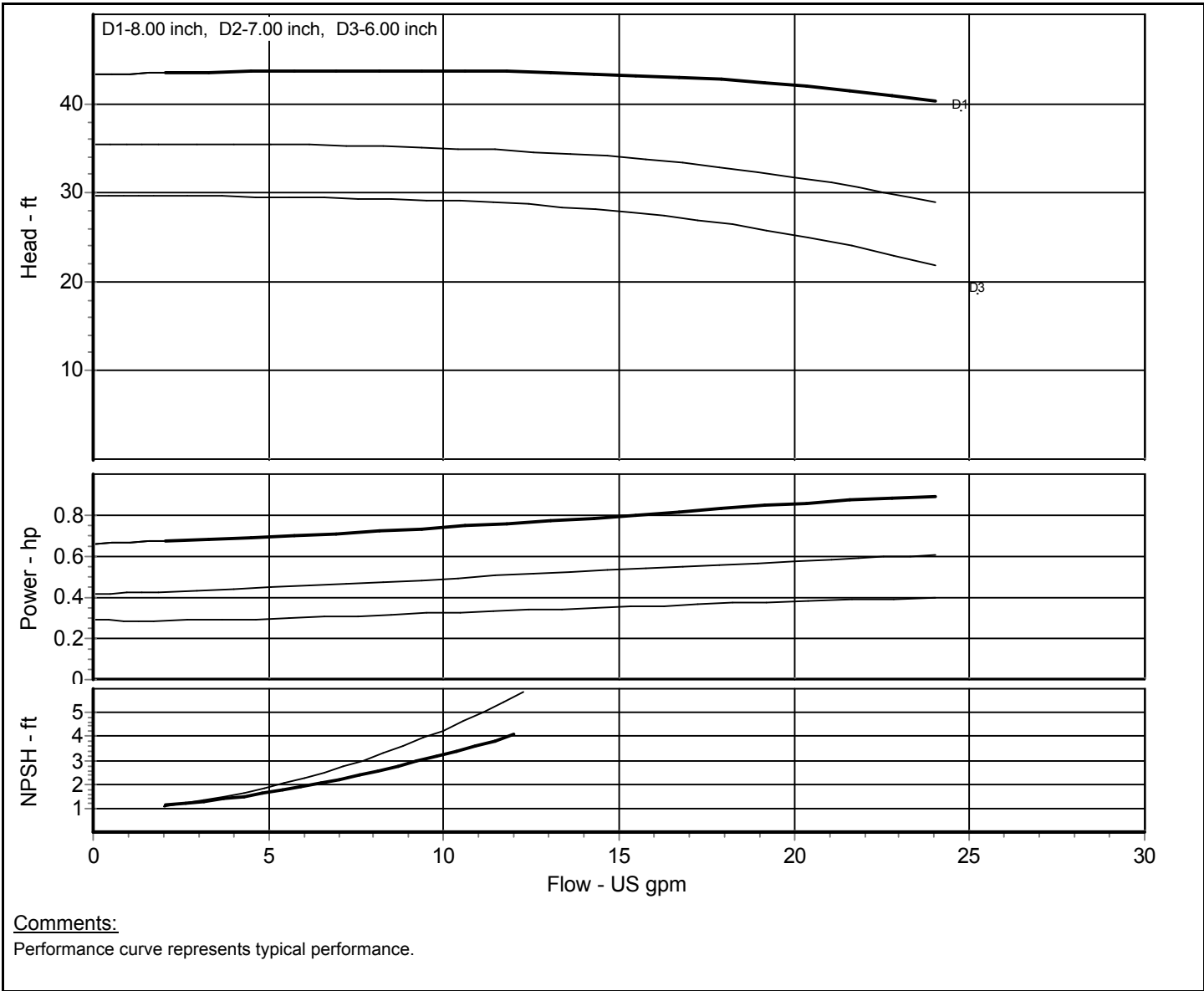


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1x1.5-8 STP 8196LF** Nom. Speed: **1450** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **8/6** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Curve No.: **8196LF-50hz004** Sp. Gravity: **1.000** Peak Power: **0.89** hp  
 Impeller No. Fluid: **Water** Closed Valve Pressure **43.264** ft  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**





Peerless Pump Company, LLC  
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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 1x1.5-8 STP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1450** RPM, 50 Hz Electric  
 Impeller Dia.: **8/5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**  
 Fluid: **Water**

Power Required : hp  
 NPSH Required : ft  
 Peak Power: **1.38** hp  
 Closed Valve Pressure **50.329** ft

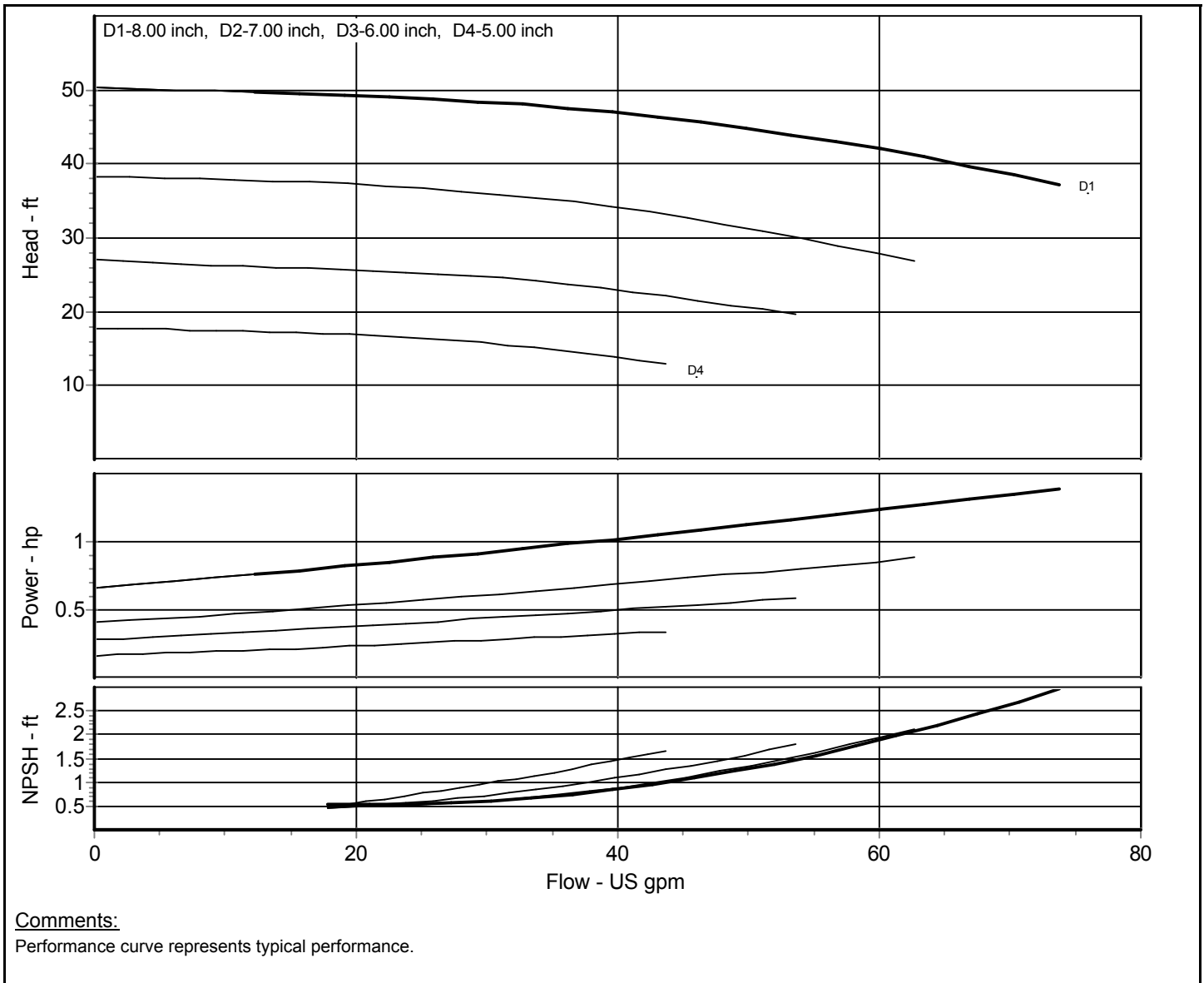
Curve No.: **8196-50hz005**

Impeller No.

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**





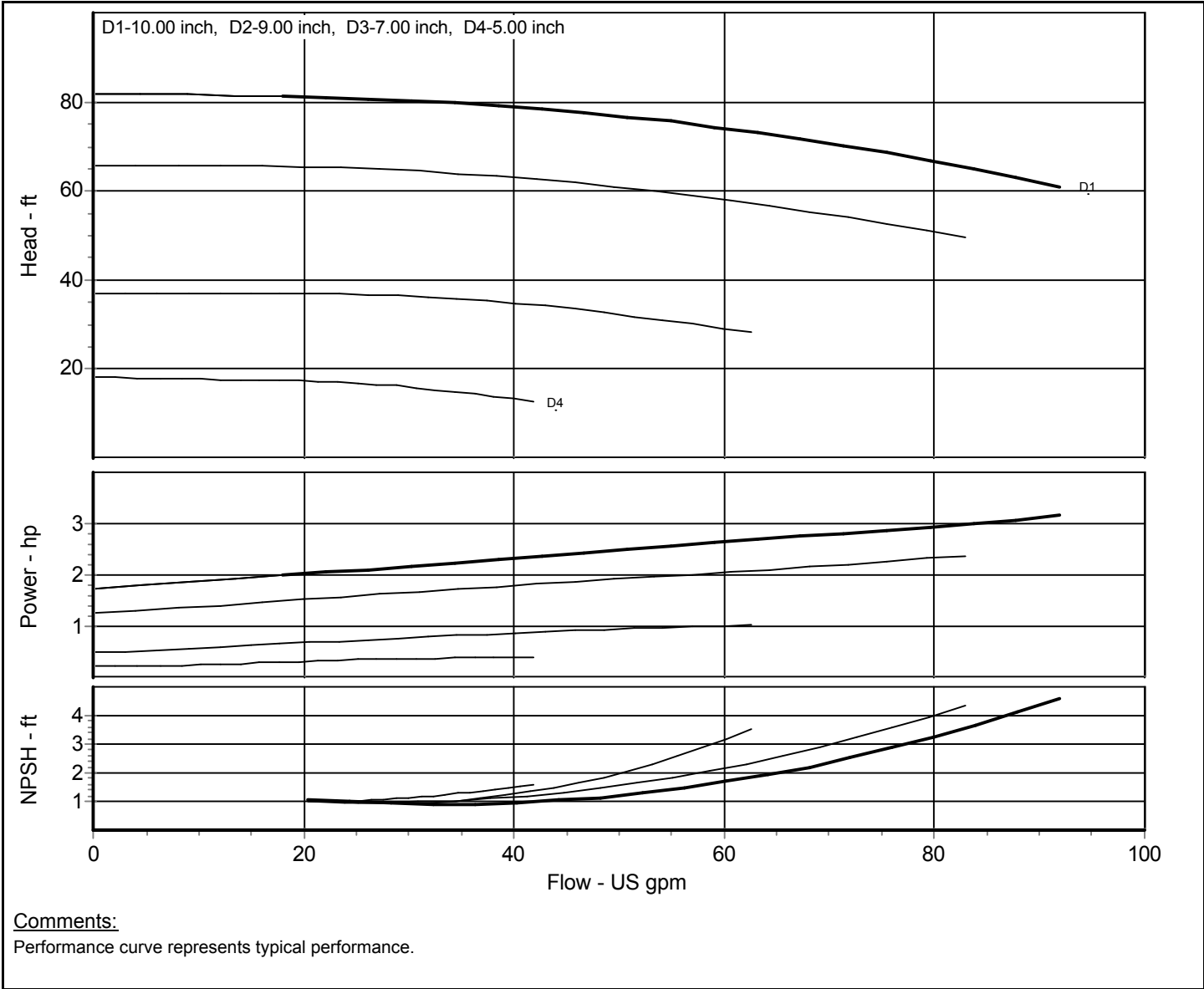
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<b>Project :</b>		<b>Contact :</b>	
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Phone :</b>	<b>Fax :</b>
		<b>Date :</b>	

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Pump Model: <b>Peerless - 1x2-10 MTP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/5 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-50hz020</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>3.15 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>81.749 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		







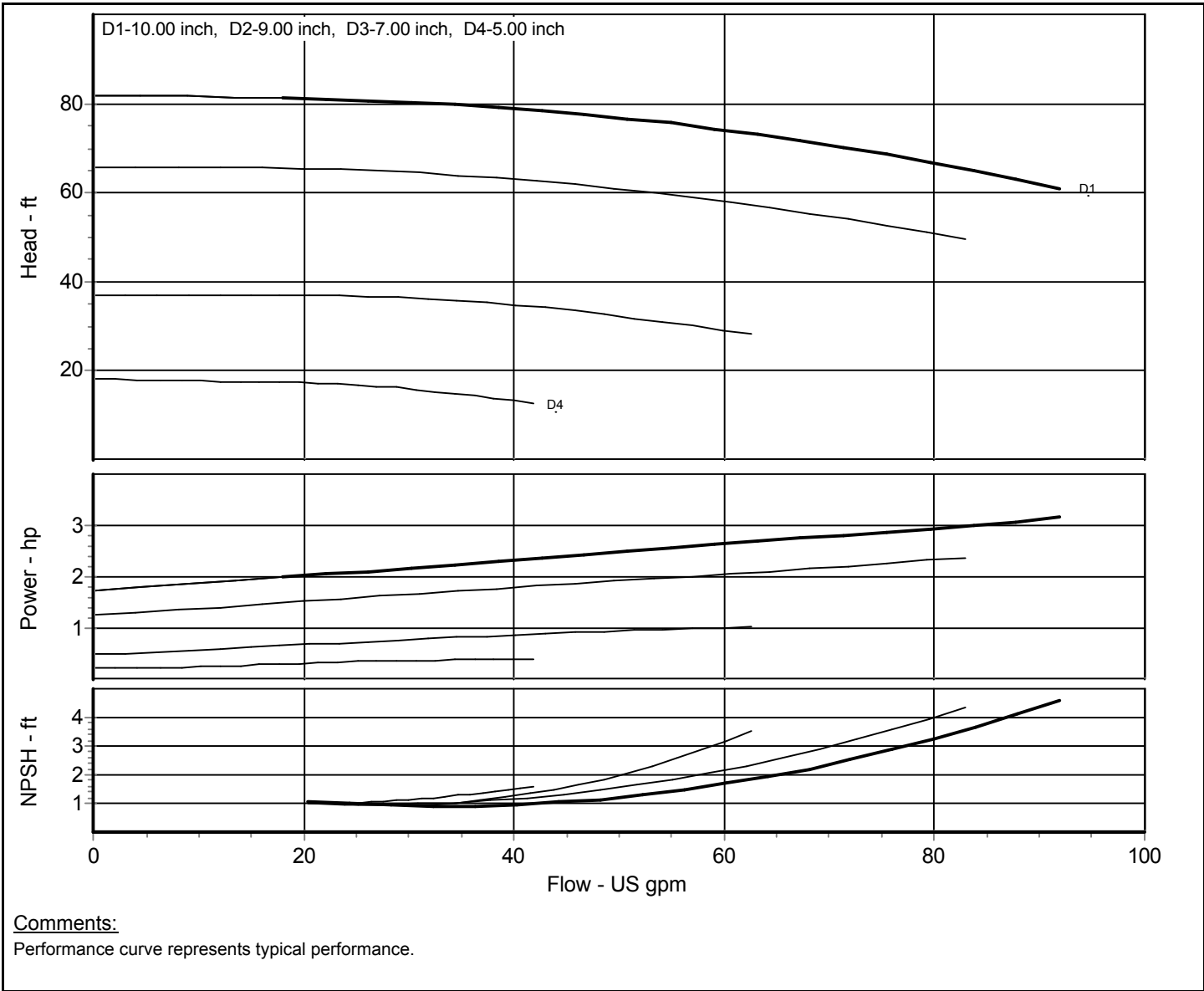
Customer :

Peerless Pump Company, LLC  
 Indianapolis, Indiana 46207-7026

<b>Project :</b>		<b>Contact :</b>	
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Phone :</b>	<b>Fax :</b>
		<b>Date</b>	

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Pump Model: <b>Peerless - 1x2-10 LTP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/5 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-50hz020</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>3.15 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>81.749 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



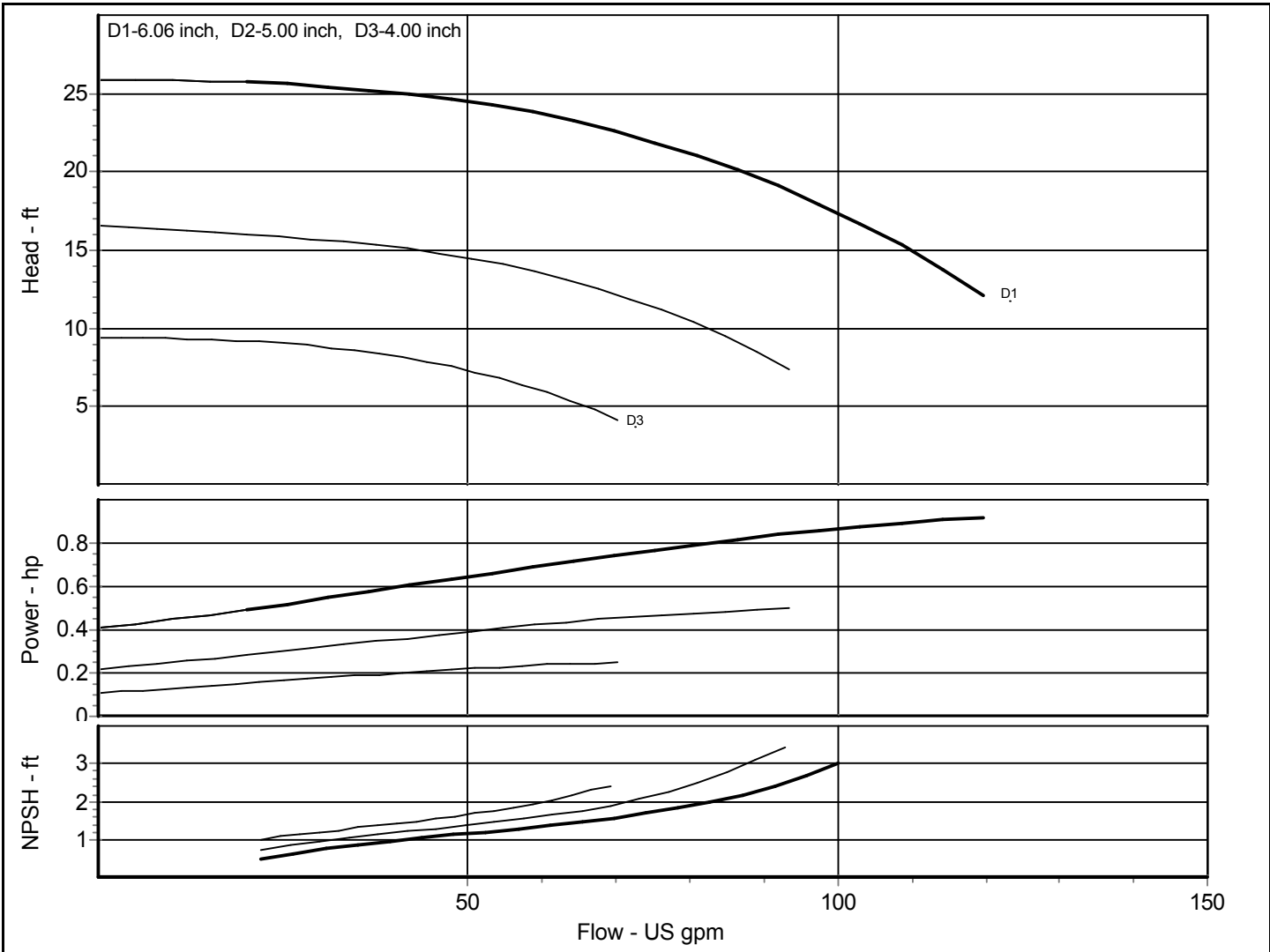


Customer :

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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 1.5x3-6 STP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow : <b>US gpm</b>
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>6.06/4 inch</b>	Duty Head : <b>ft</b>
	Temperature: <b>68 °F</b>	Efficiency : <b>%</b>
	Viscosity: <b>1.009 cP</b>	Power Required : <b>hp</b>
Curve No.: <b>8196-50hz003</b>	Sp. Gravity: <b>1.000</b>	NPSH Required : <b>ft</b>
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>0.92 hp</b>
Item : <b>1</b>		Closed Valve Pressure <b>25.84 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>	



Comments:  
Performance curve represents typical performance.

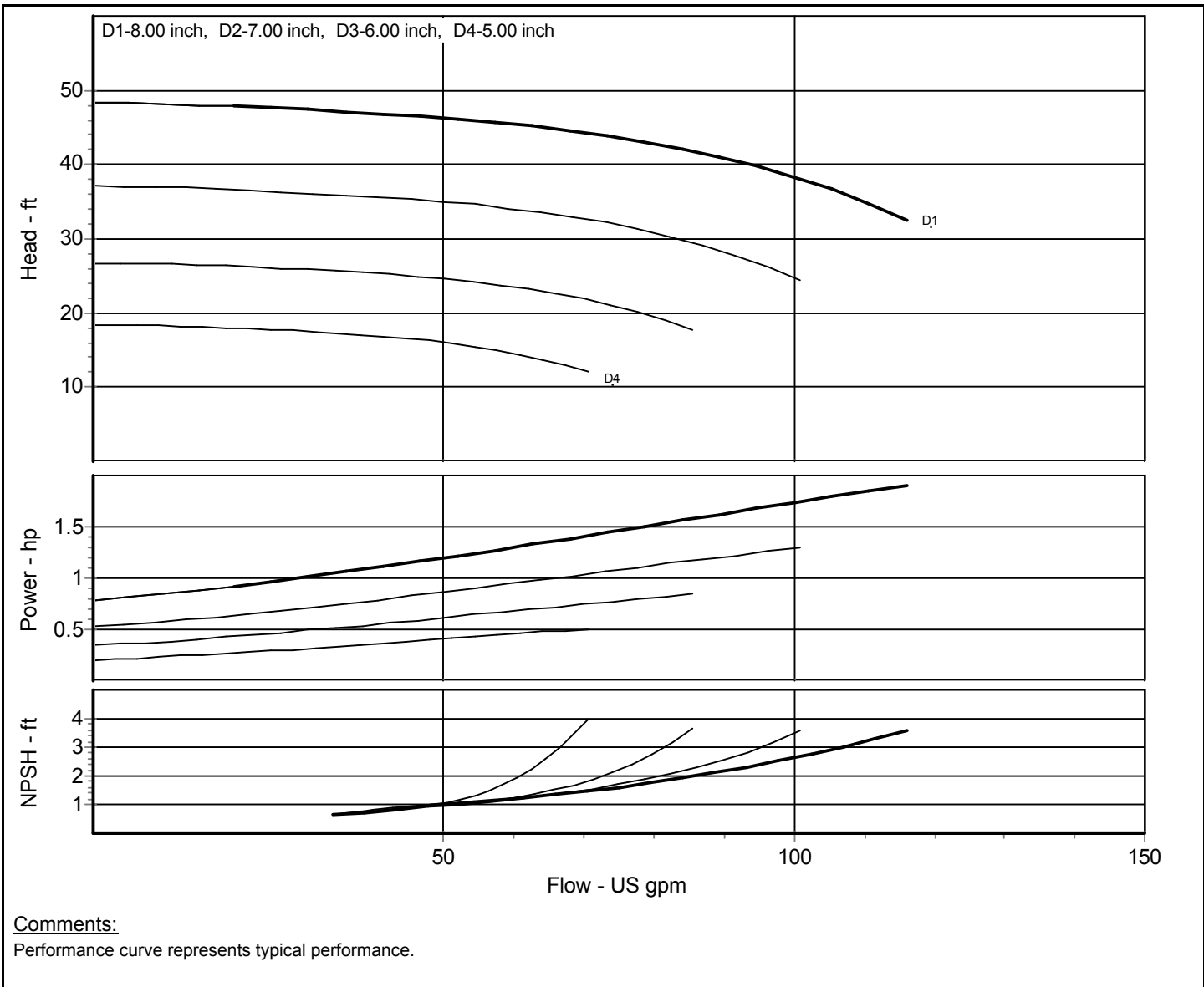


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 1.5x3-8 STP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8/5 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-50hz007</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>1.9 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>48.357 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



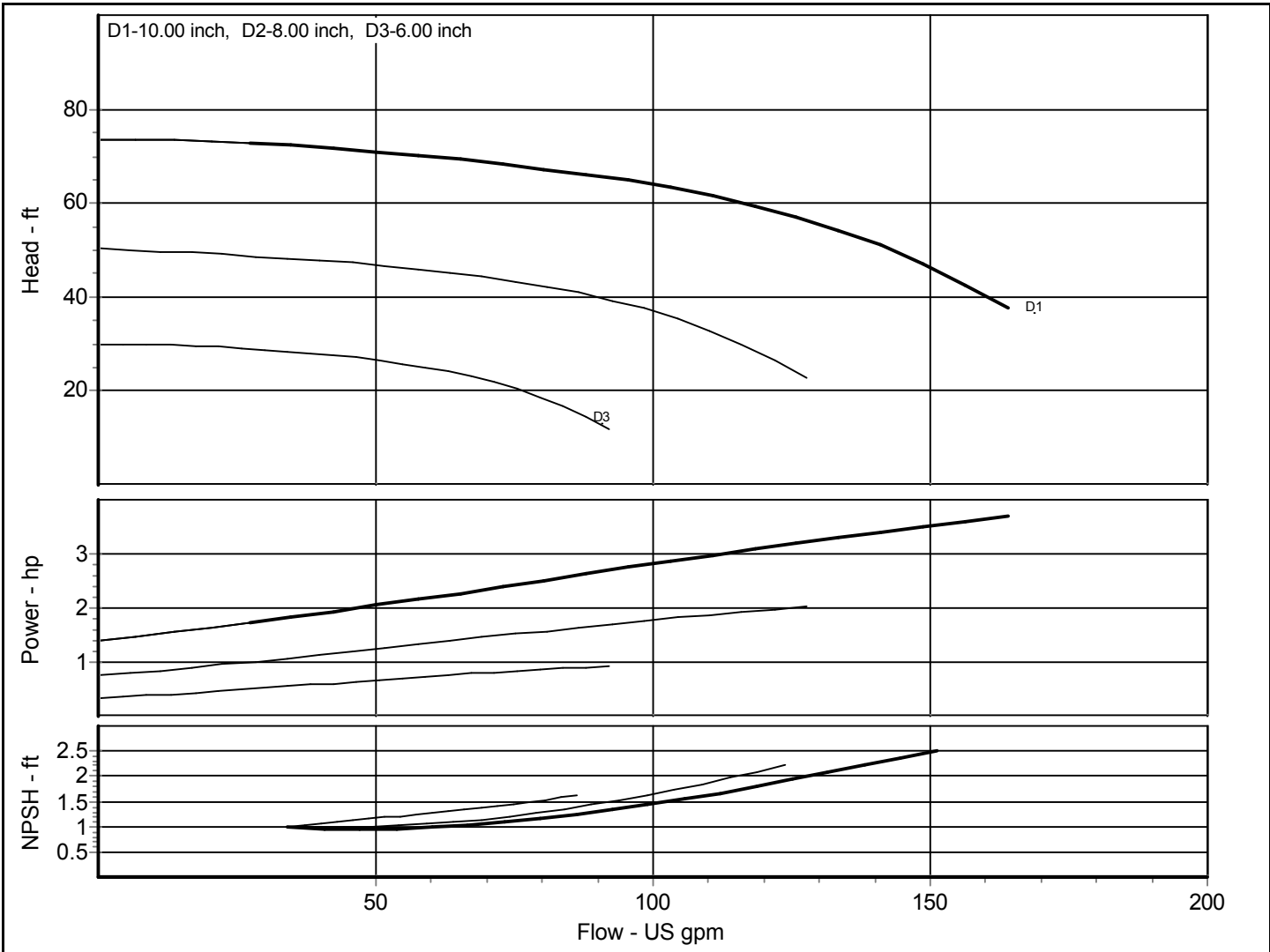


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. : 1</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 1.5x3-10 MTP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow : <b>US gpm</b>
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6 inch</b>	Duty Head : <b>ft</b>
	Temperature: <b>68 °F</b>	Efficiency : <b>%</b>
	Viscosity: <b>1.009 cP</b>	Power Required : <b>hp</b>
Curve No.: <b>8196-50hz022</b>	Sp. Gravity: <b>1.000</b>	NPSH Required : <b>ft</b>
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>3.7 hp</b>
Item : <b>1</b>		Closed Valve Pressure <b>73.442 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>	



Comments:  
Performance curve represents typical performance.

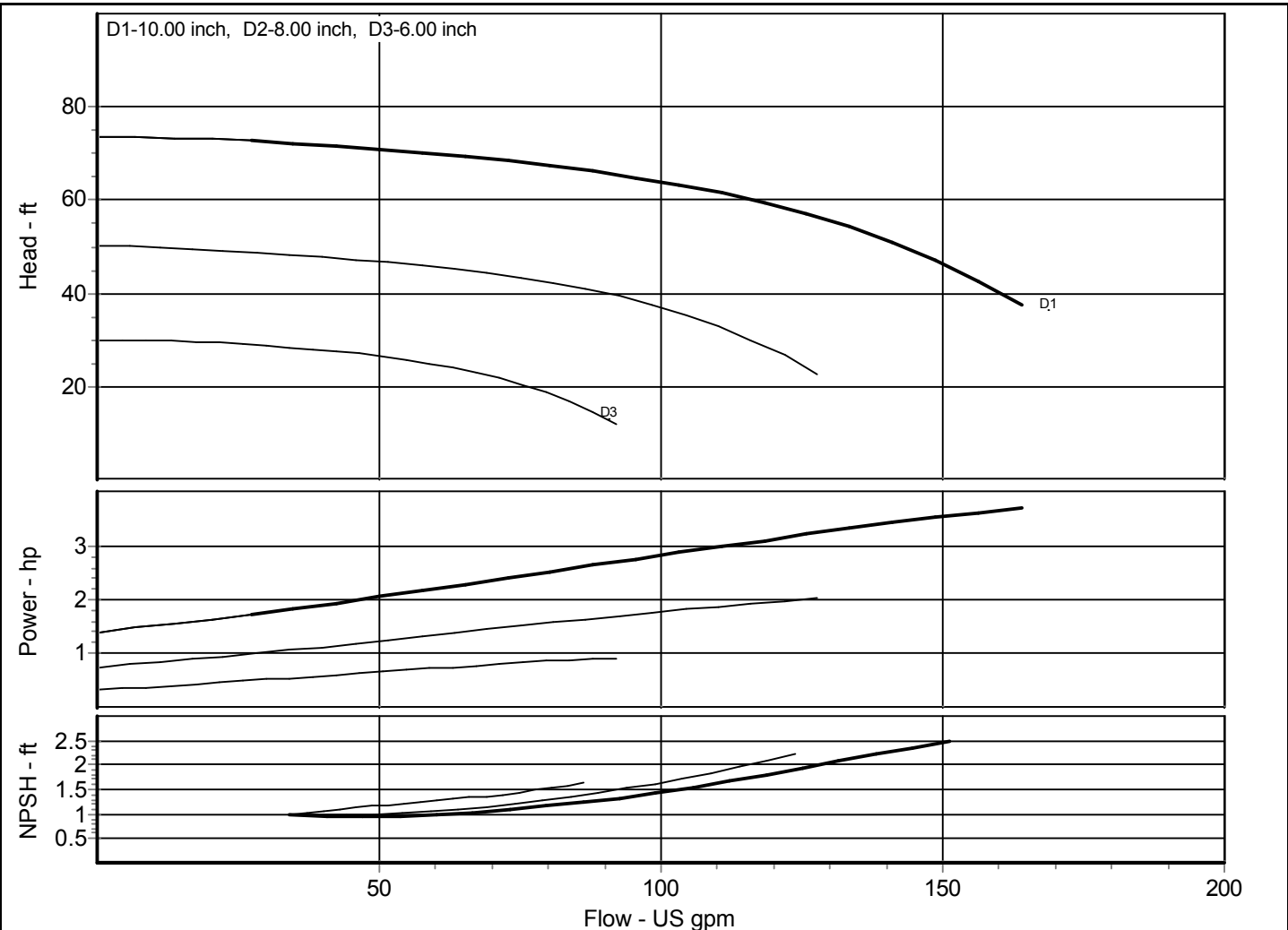


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 1.5x3-10 LTP 8196** Nom. Speed: **1450** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **10/6** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Curve No.: **8196-50hz022** Sp. Gravity: **1.000** Peak Power: **3.7** hp  
 Impeller No. Fluid: **Water** Closed Valve Pressure **73.442** ft  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



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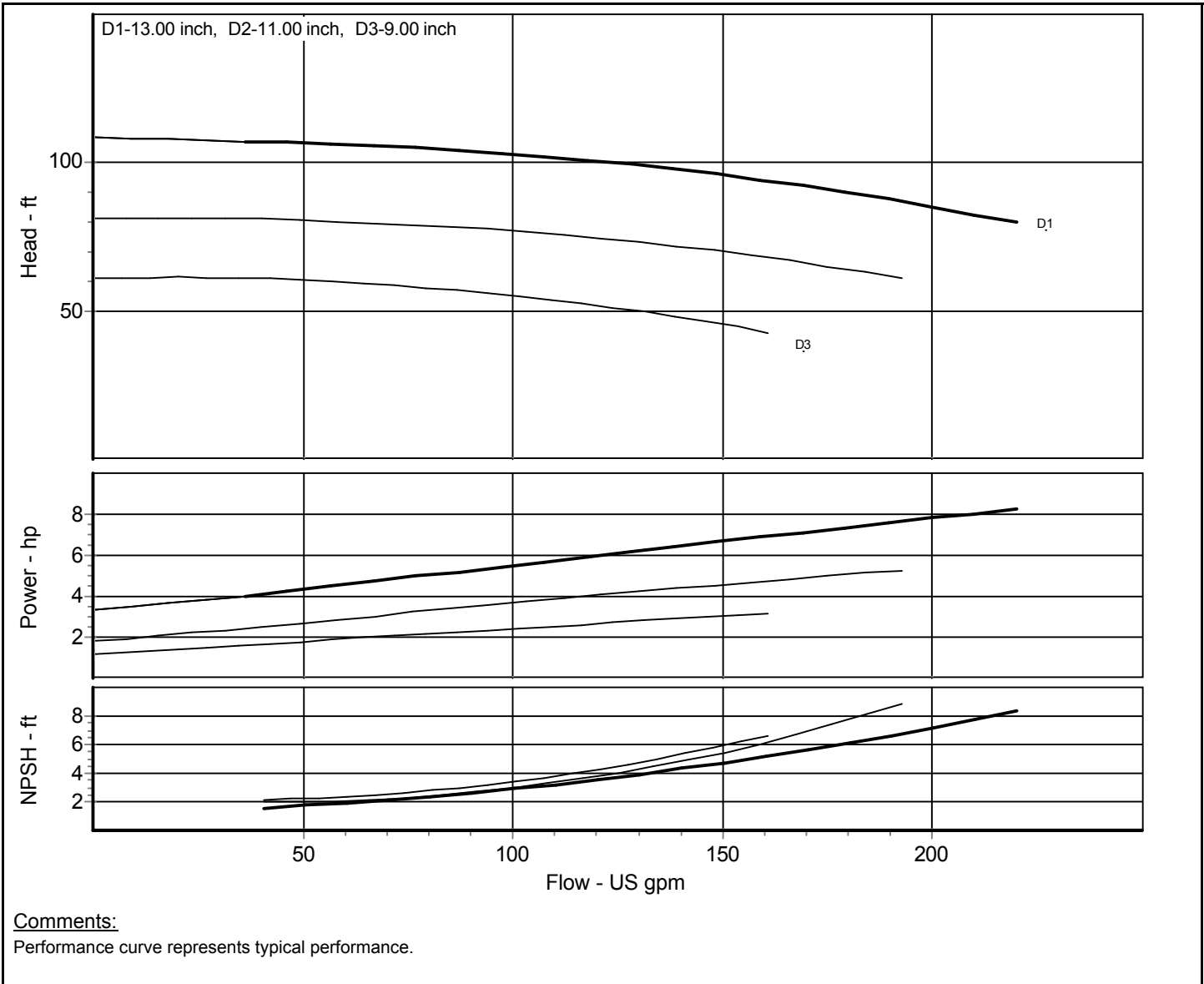
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 1.5x3-13 MTP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz030</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>8.27</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>108.431</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 1.5x3-13 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1450 RPM, 50 Hz Electric**  
 Impeller Dia.: **13/9 inch**

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68 °F**  
 Viscosity: **1.009 cP**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-50hz030**

Sp. Gravity: **1.000**

Peak Power: **8.27 hp**

Impeller No.

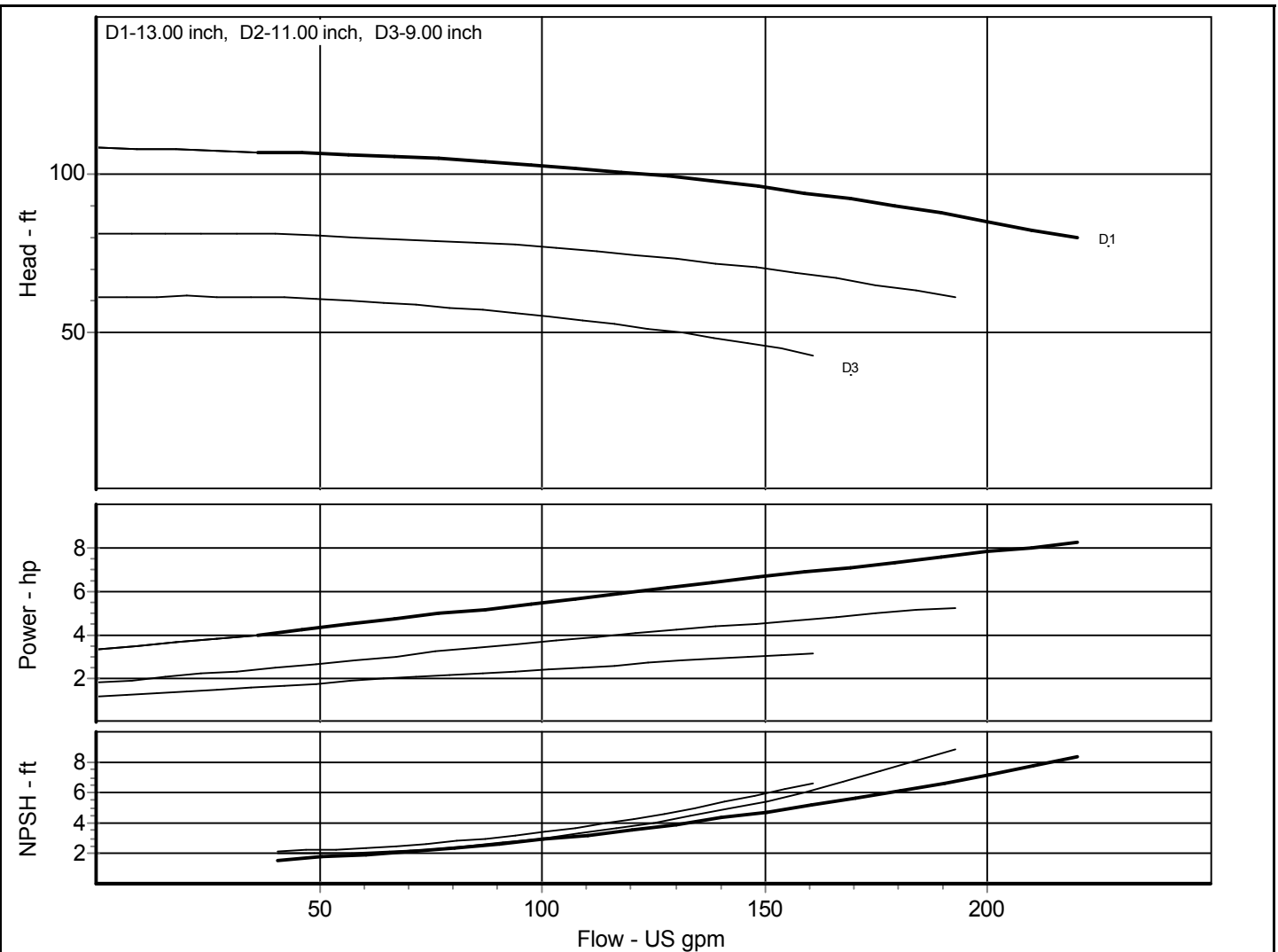
Fluid: **Water**

Closed Valve Pressure **108.431 ft**

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

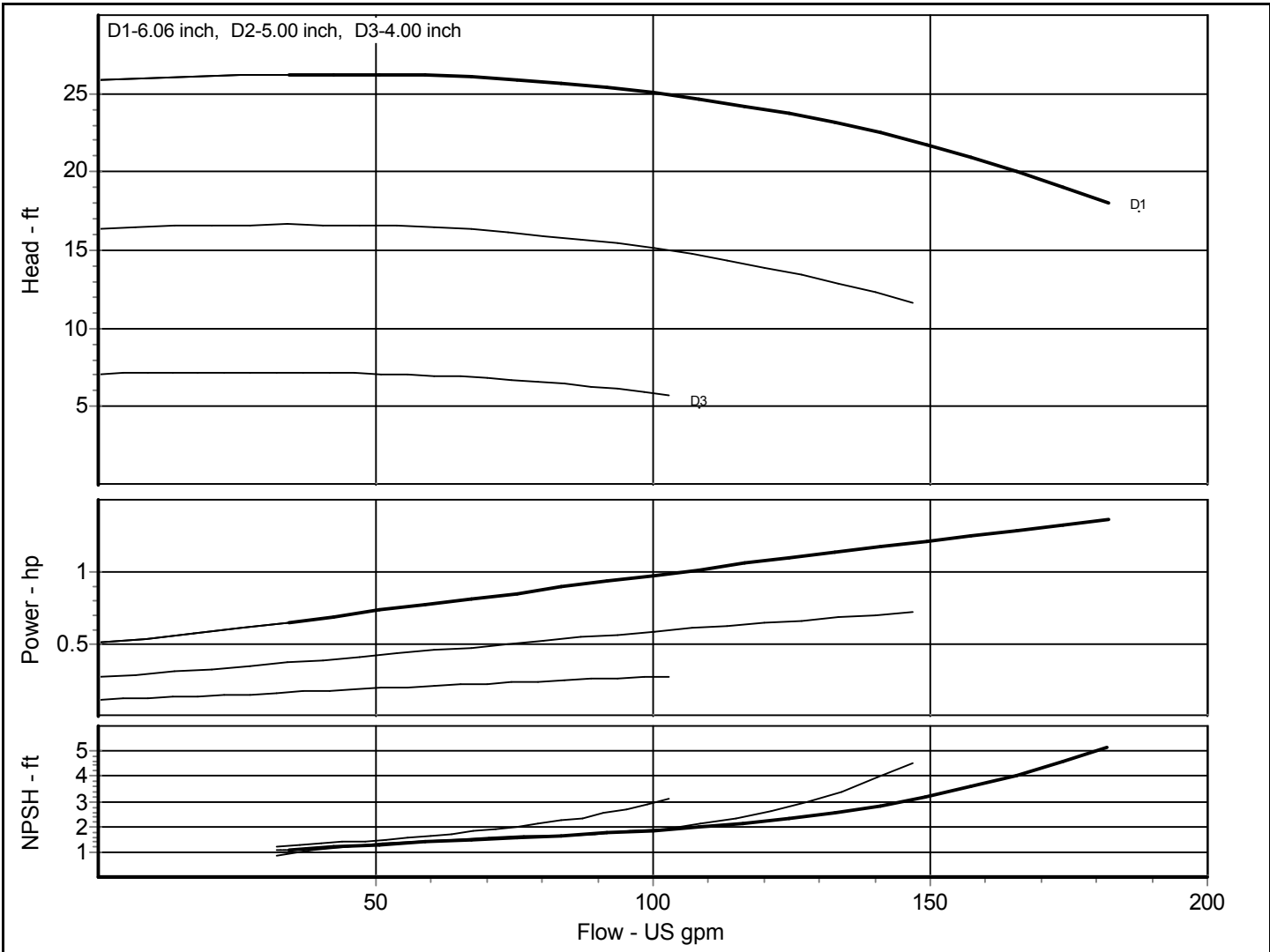


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 2x3-6 STP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>6.06/4</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz010</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>1.36</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>25.834</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-6 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1450 RPM, 50 Hz Electric**  
 Impeller Dia.: **5.88/4 inch**

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68 °F**  
 Viscosity: **1.009 cP**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-50hz011**

Sp. Gravity: **1.000**

Peak Power: **1.35 hp**

Impeller No.

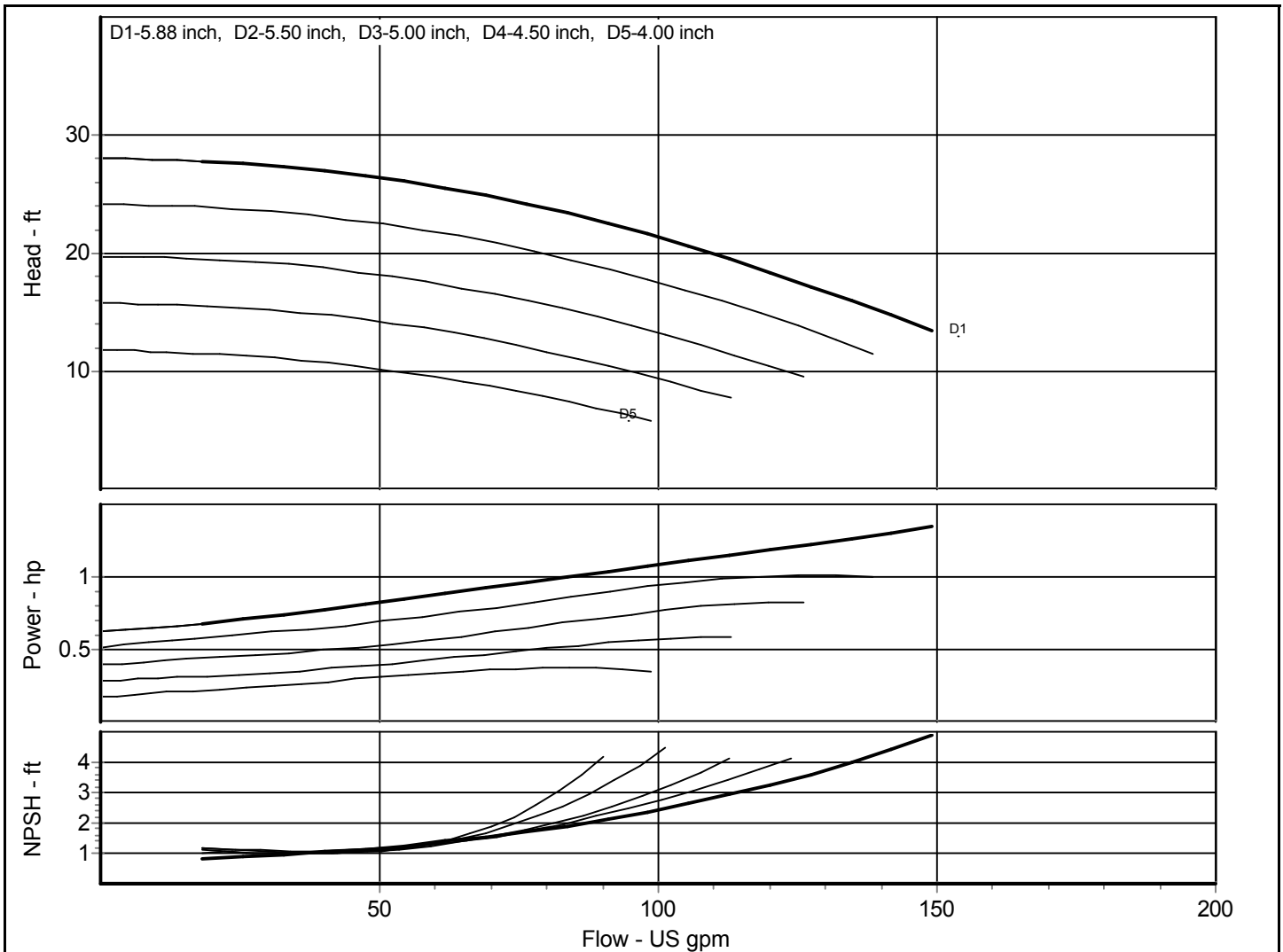
Fluid: **Water**

Closed Valve Pressure **28.01 ft**

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

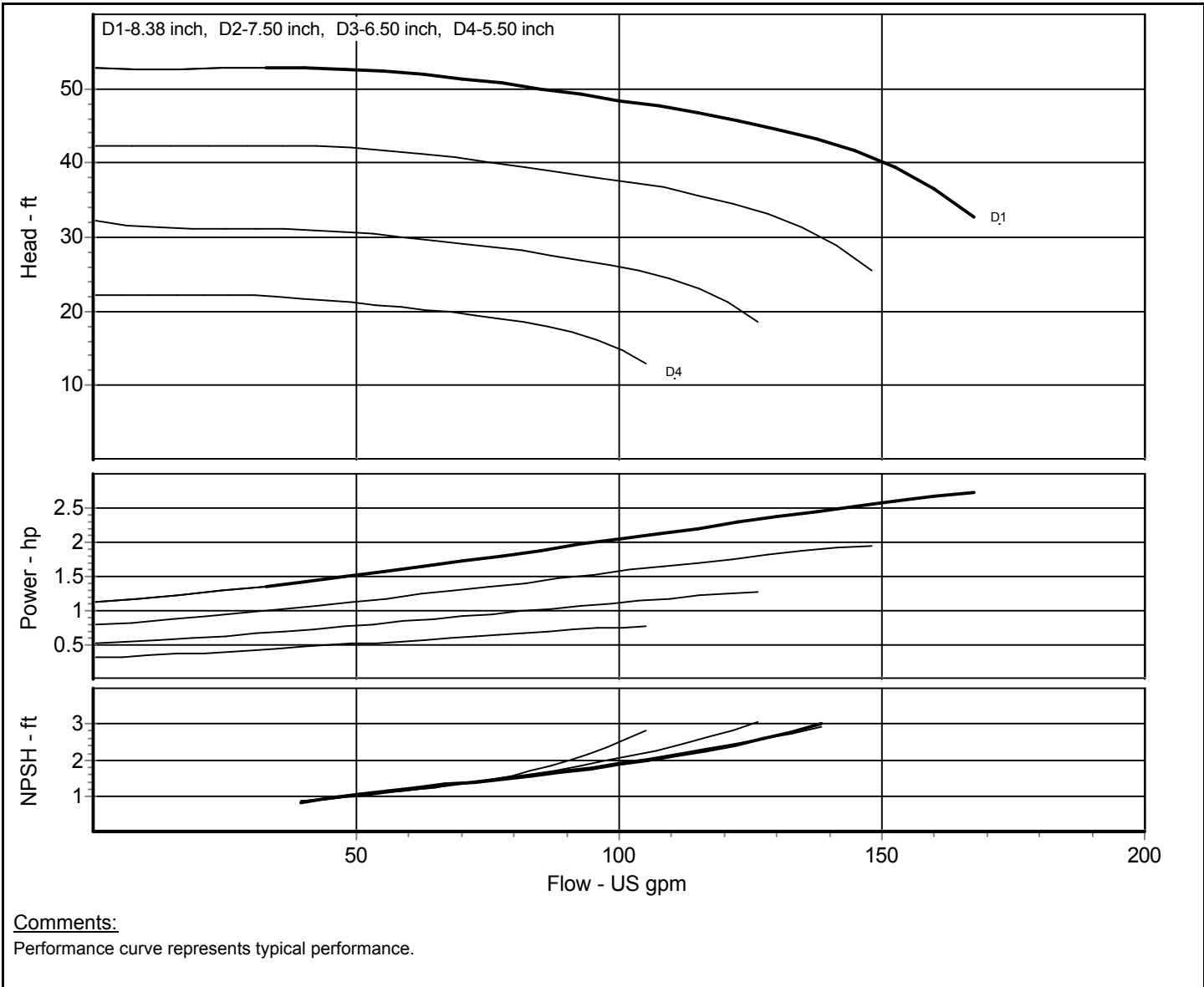


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 2x3-8 MTP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow : <b>US gpm</b>
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8.38/5.5 inch</b>	Duty Head : <b>ft</b>
	Temperature: <b>68 °F</b>	Efficiency : <b>%</b>
	Viscosity: <b>1.009 cP</b>	Power Required : <b>hp</b>
Curve No.: <b>8196-50hz014</b>	Sp. Gravity: <b>1.000</b>	NPSH Required : <b>ft</b>
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>2.73 hp</b>
Item : <b>1</b>		Closed Valve Pressure <b>52.734 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>	



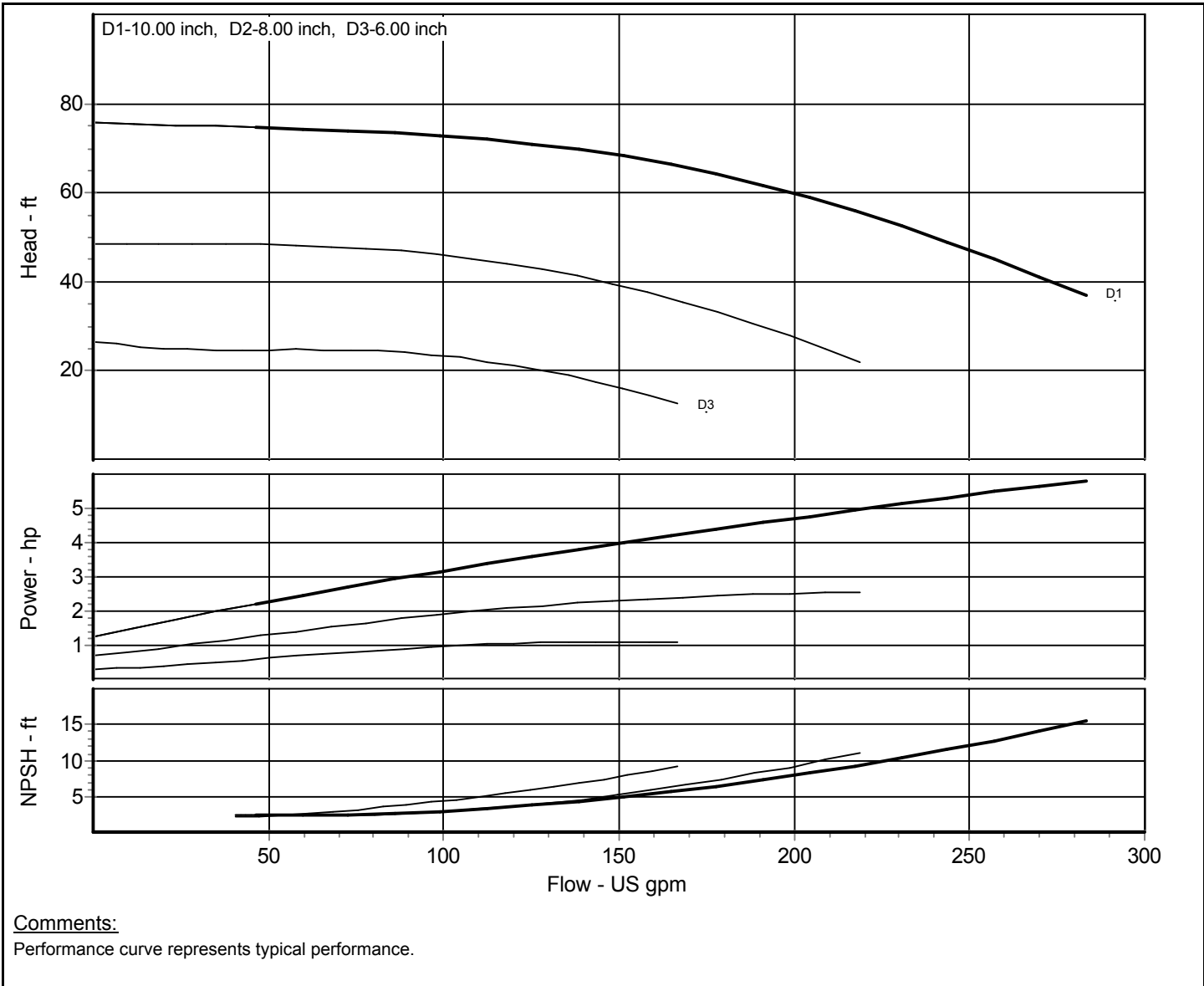


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-10 MTP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz024</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>5.82</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>75.893</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





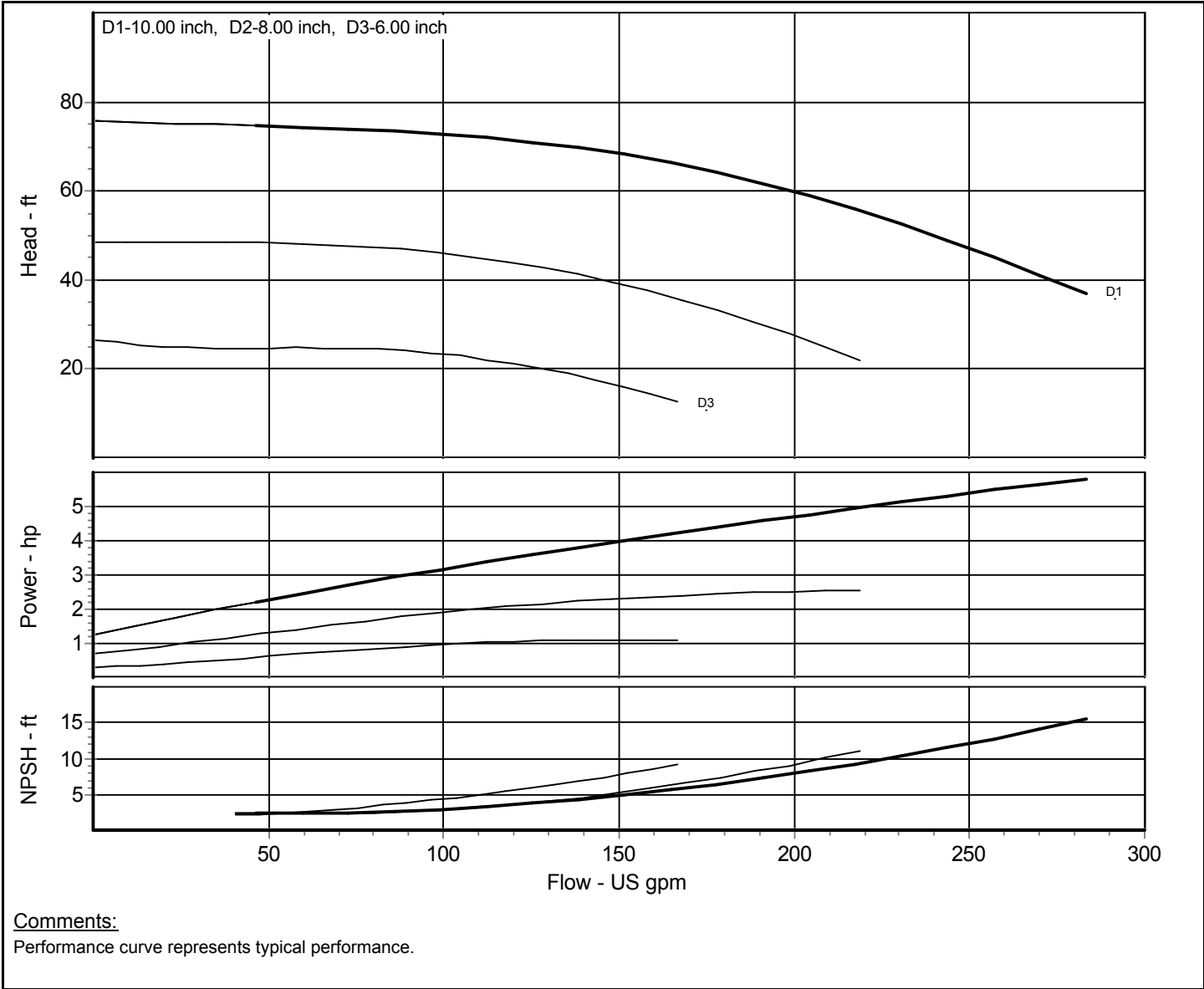
Customer :

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<b>Project :</b>		<b>Contact :</b>	
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Phone :</b>	<b>Fax :</b>
		<b>Date :</b>	

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Pump Model: <b>Peerless - 2x3-10 LTP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-50hz024</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>5.82 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>75.893 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-13 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1450** RPM, 50 Hz Electric  
 Impeller Dia.: **13/9** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-50hz033**

Sp. Gravity: **1.000**

Peak Power: **12.48** hp

Impeller No.

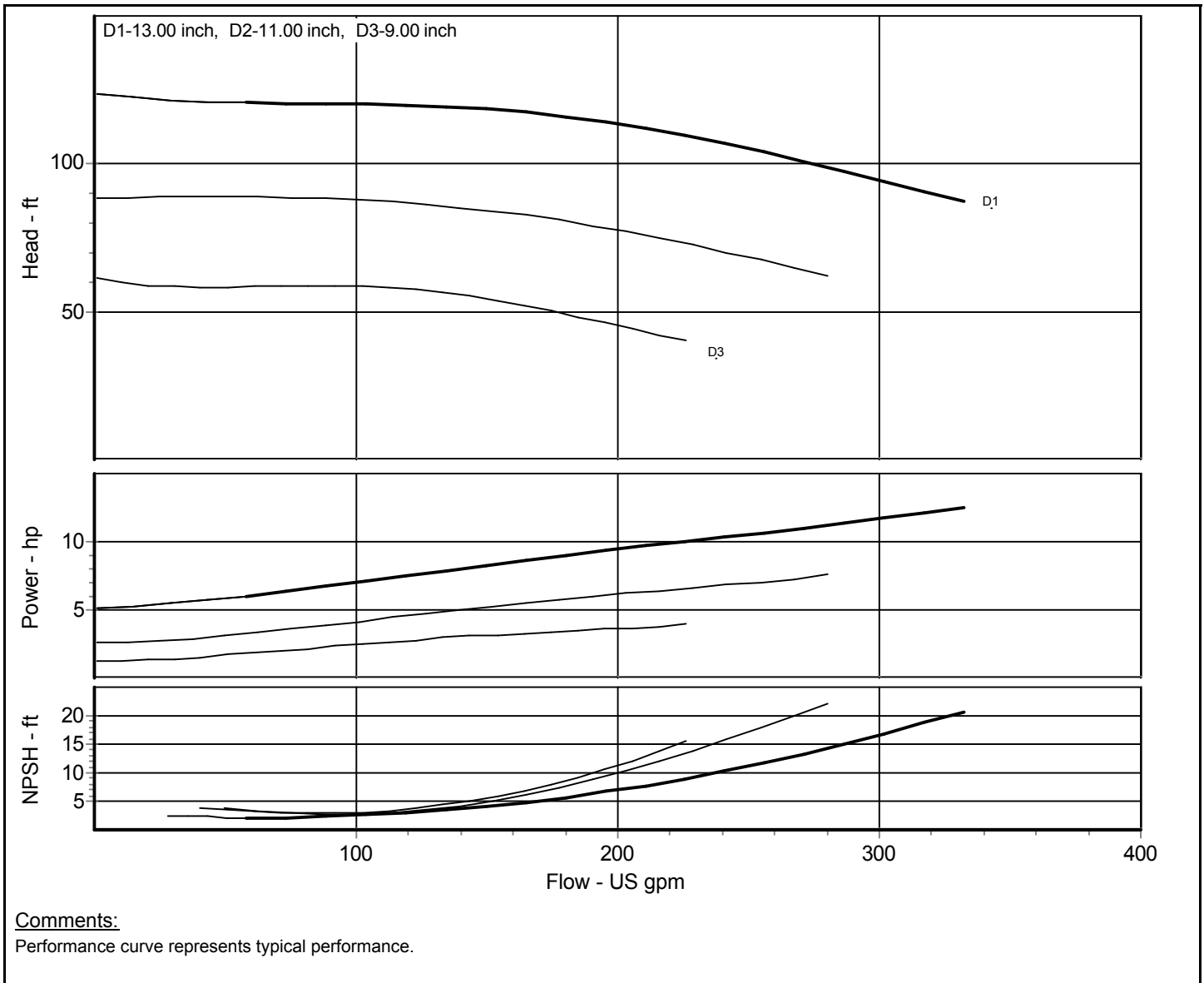
Fluid: **Water**

Closed Valve Pressure **123.666** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 2x3-13 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1450** RPM, 50 Hz Electric  
 Impeller Dia.: **13/9** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**  
 Fluid: **Water**

Power Required : hp  
 NPSH Required : ft  
 Peak Power: **12.48** hp  
 Closed Valve Pressure **123.666** ft

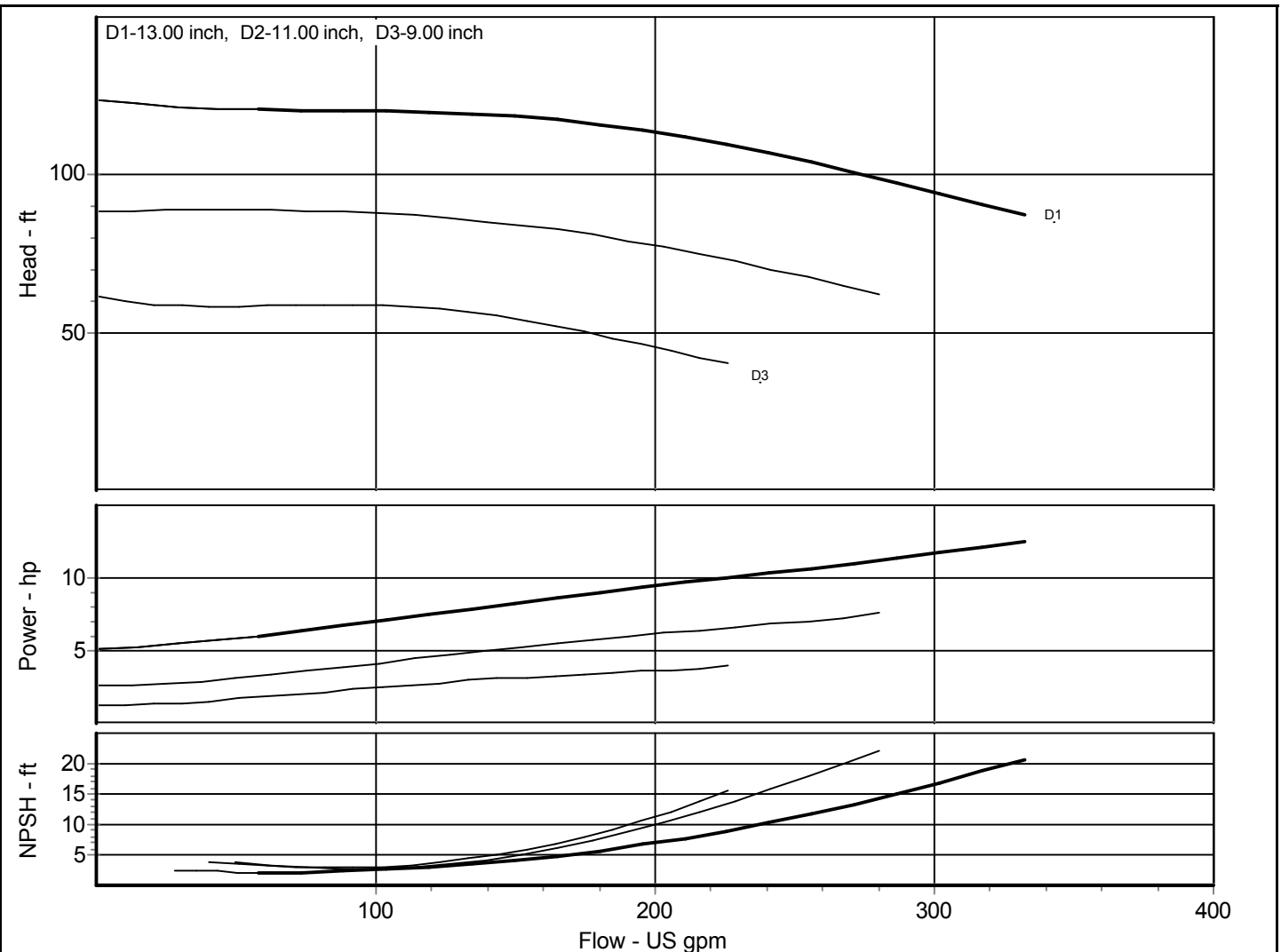
Curve No.: **8196-50hz033**

Impeller No.

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

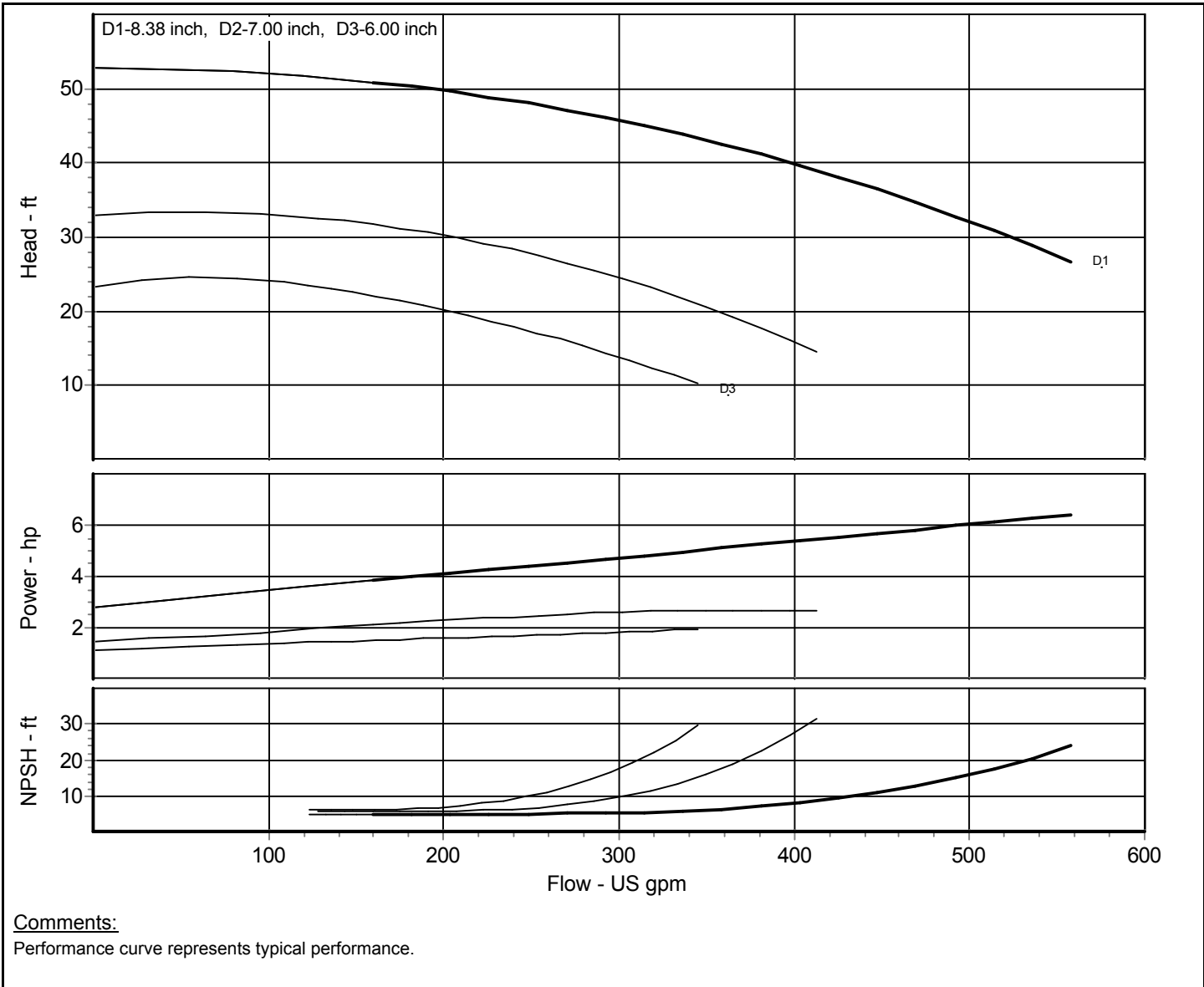


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 3x4-8 MTP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>8.38/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz015</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>6.41</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>52.861</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 3x4-8G MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1450** RPM, 50 Hz Electric  
 Impeller Dia.: **8.38/5.5** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft  
 Peak Power: **4.19** hp  
 Closed Valve Pressure **51.503** ft

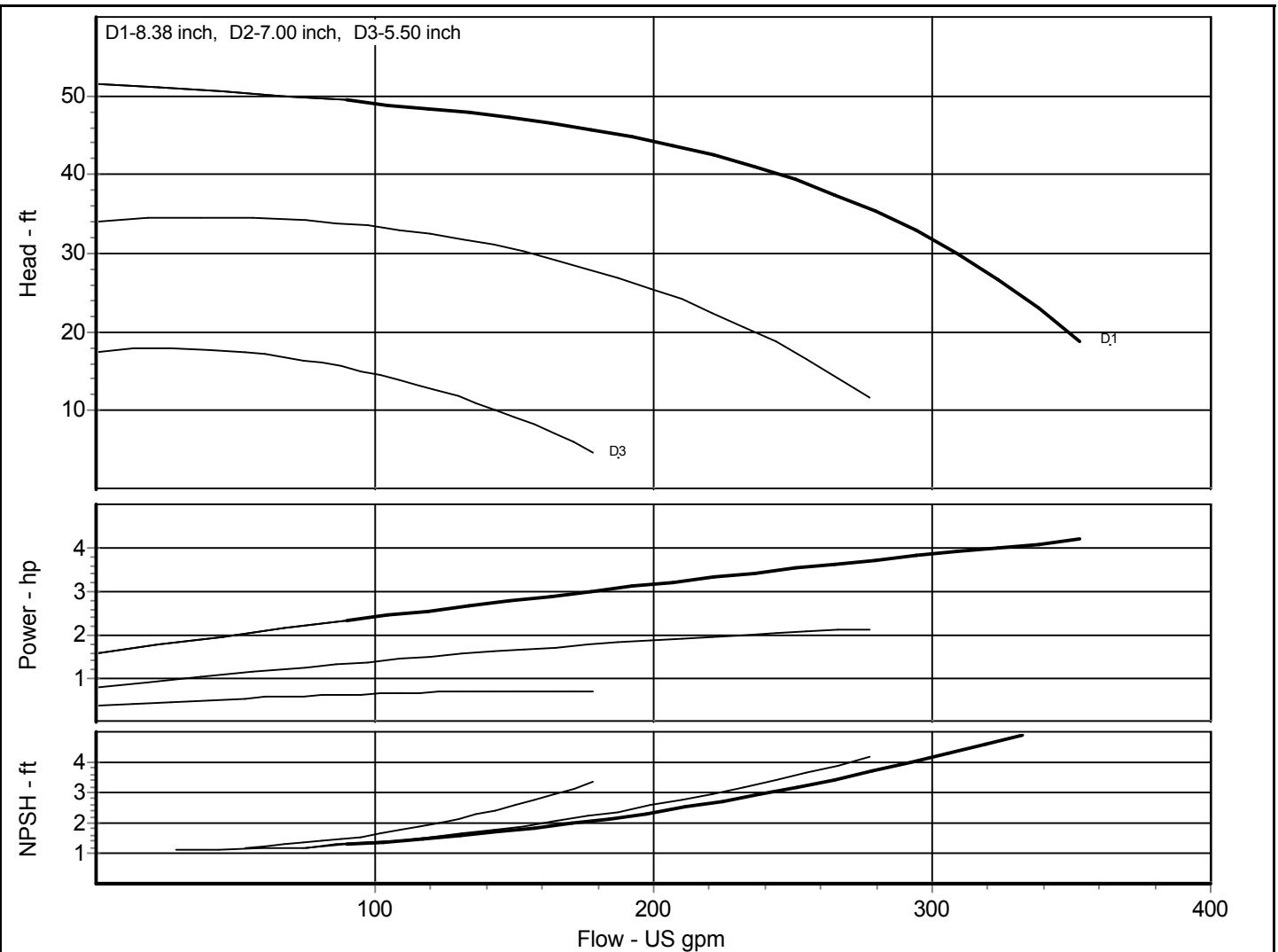
Curve No.: **8196-50hz018**

Impeller No.

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.



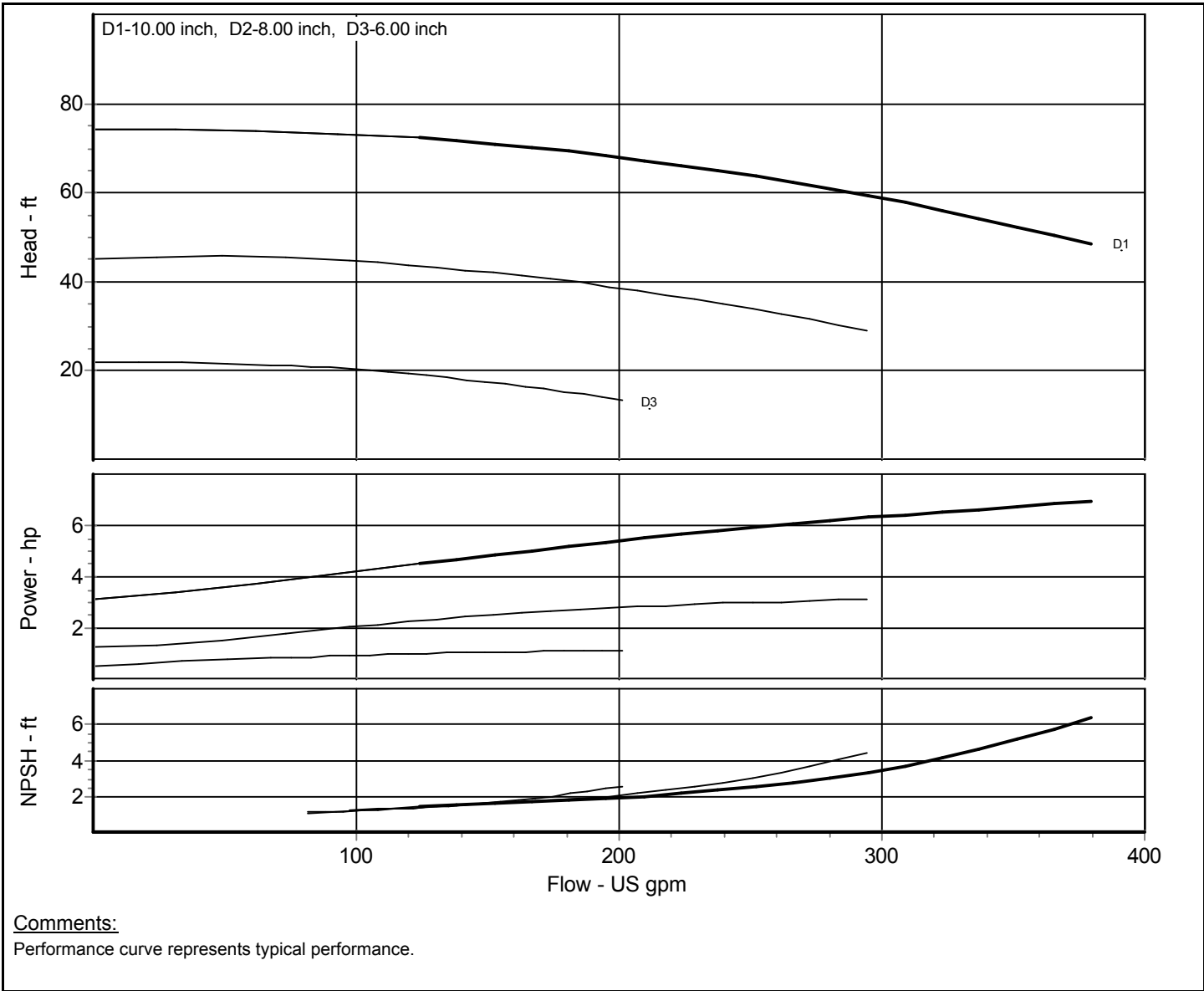


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 3x4-10 MTP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/6</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz026</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>6.95</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>74.408</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 3x4-10 LTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1450** RPM, 50 Hz Electric  
 Impeller Dia.: **10/6** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP  
 Sp. Gravity: **1.000**  
 Fluid: **Water**

Power Required : hp  
 NPSH Required : ft  
 Peak Power: **6.95** hp  
 Closed Valve Pressure **74.408** ft

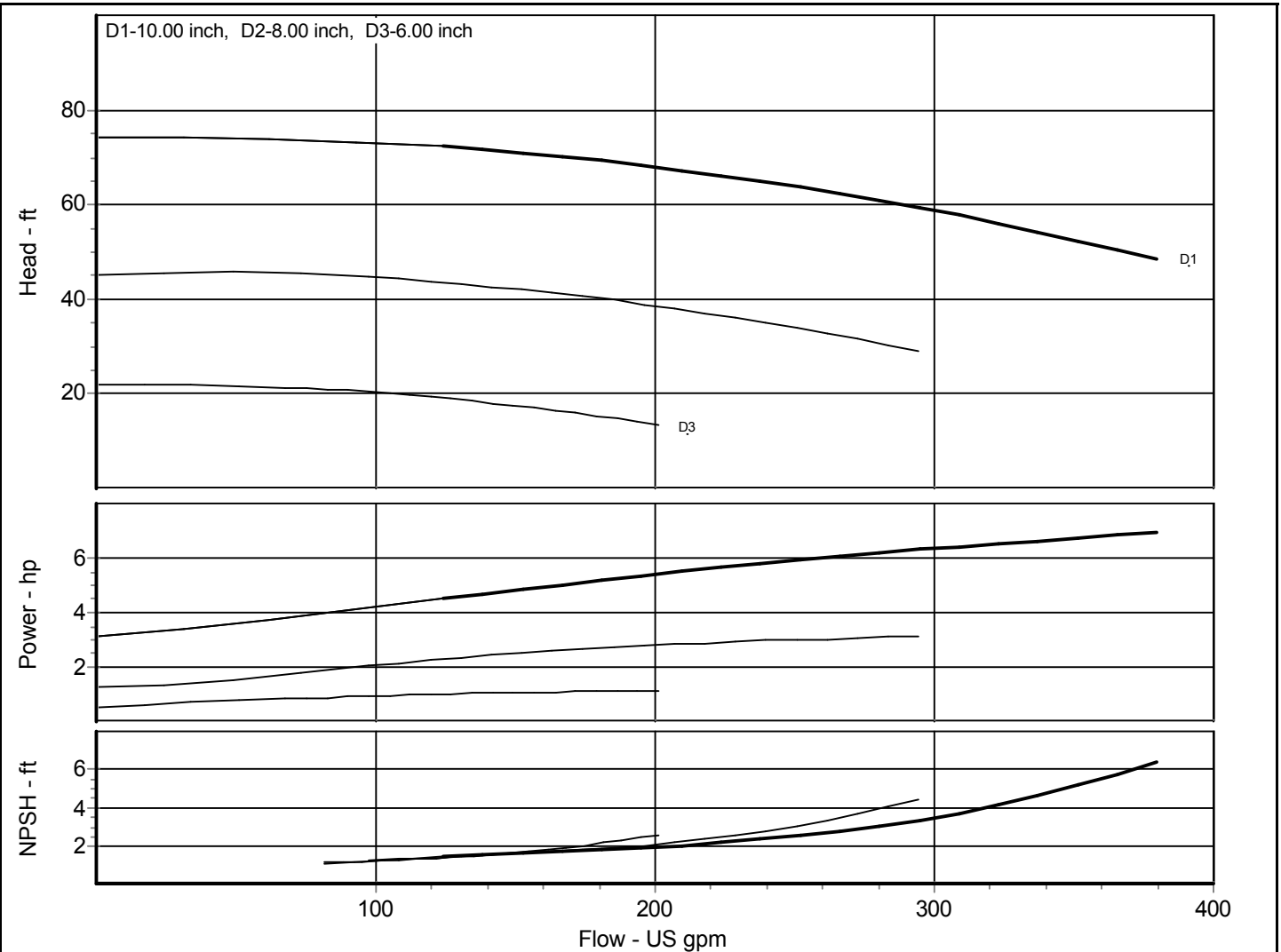
Curve No.: **8196-50hz026**

Impeller No.

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

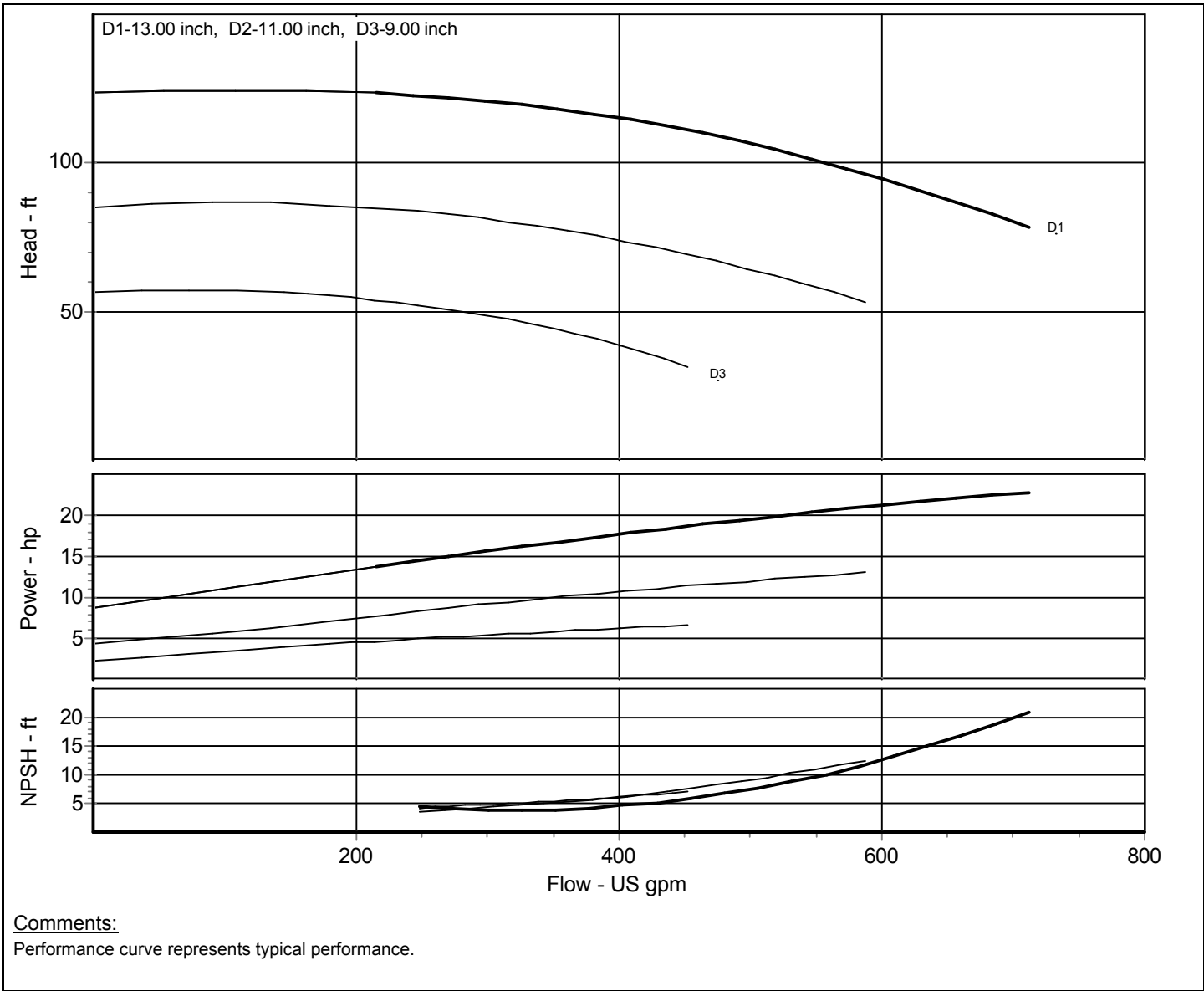


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 3x4-13 5V MTP 8196** Nom. Speed: **1450** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/9** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **22.8** hp  
 Fluid: **Water** Closed Valve Pressure **123.57** ft  
 Curve No.: **8196-50hz036**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.

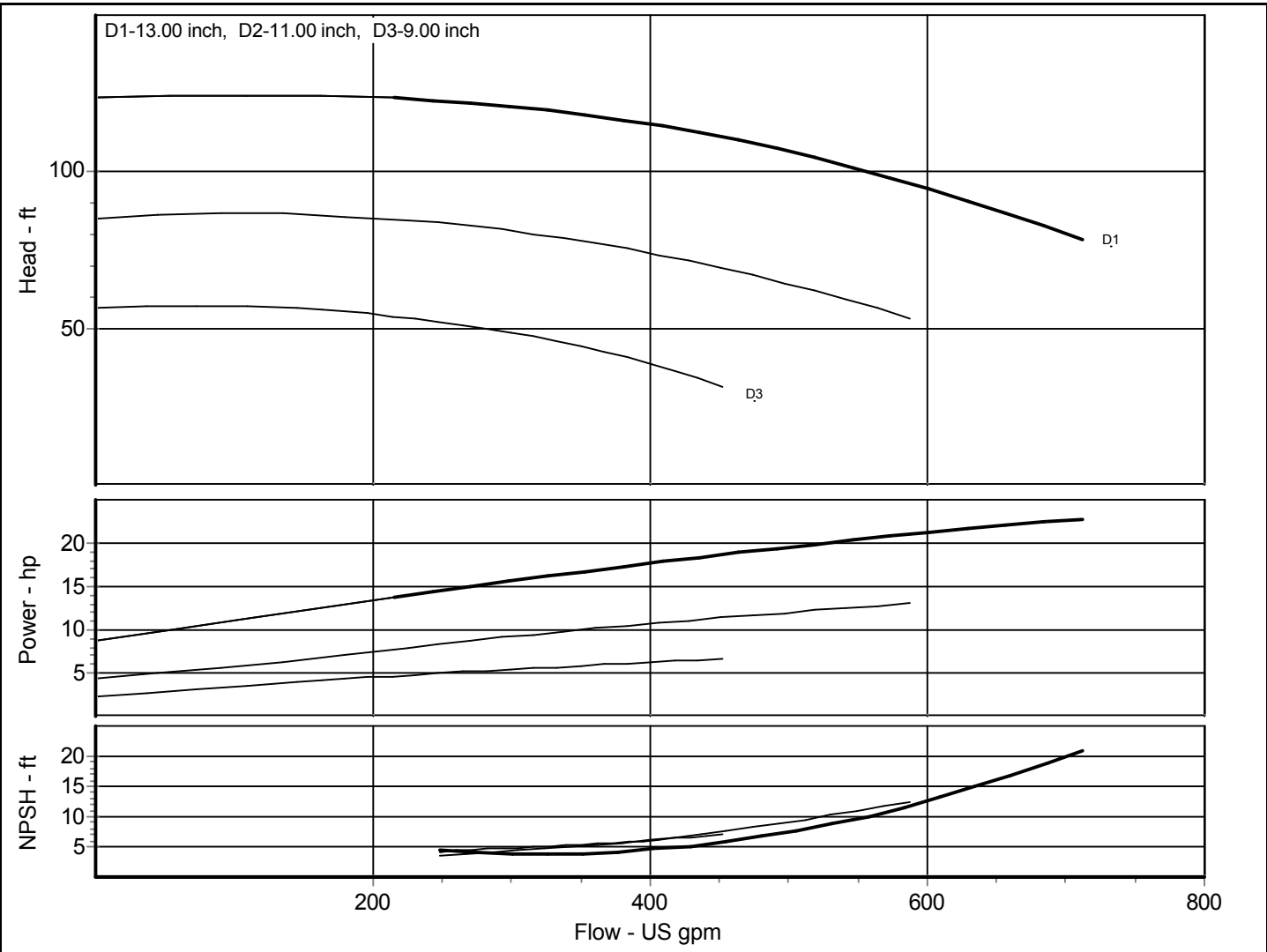


Peerless Pump Company, LLC  
 Indianapolis, Indiana 46207-7026

Customer :

Project :  
 Quote No. : Page No. : Contact :  
 Phone : Fax :  
 Date :

Pump Model: **Peerless - 3x4-13 5V LTP 8196** Nom. Speed: **1450** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/9** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **22.8** hp  
 Fluid: **Water** Closed Valve Pressure **123.57** ft  
 Curve No.: **8196-50hz036**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.

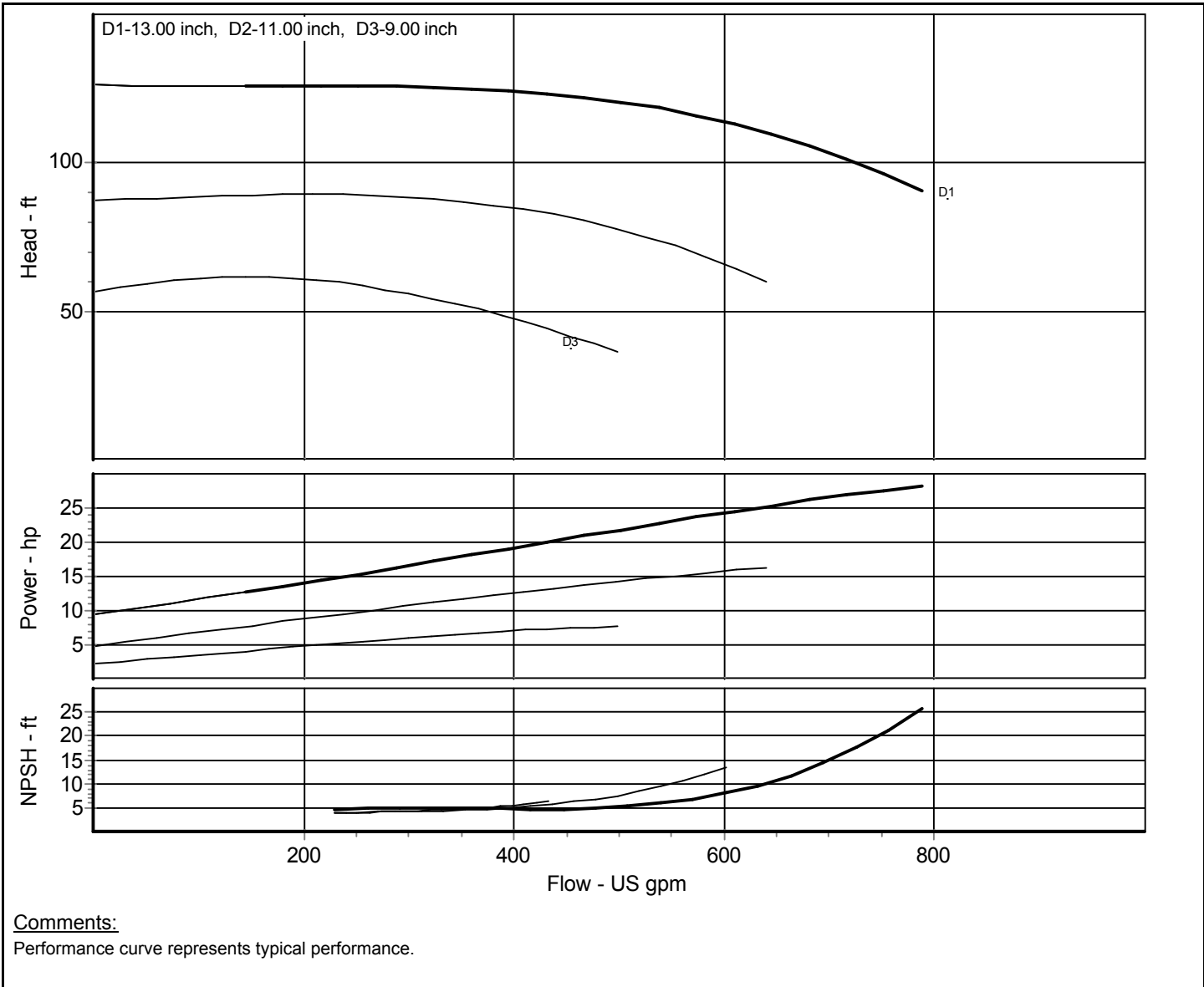


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 3x4-13 6V MTP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz039</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>28.3</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>126.304</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



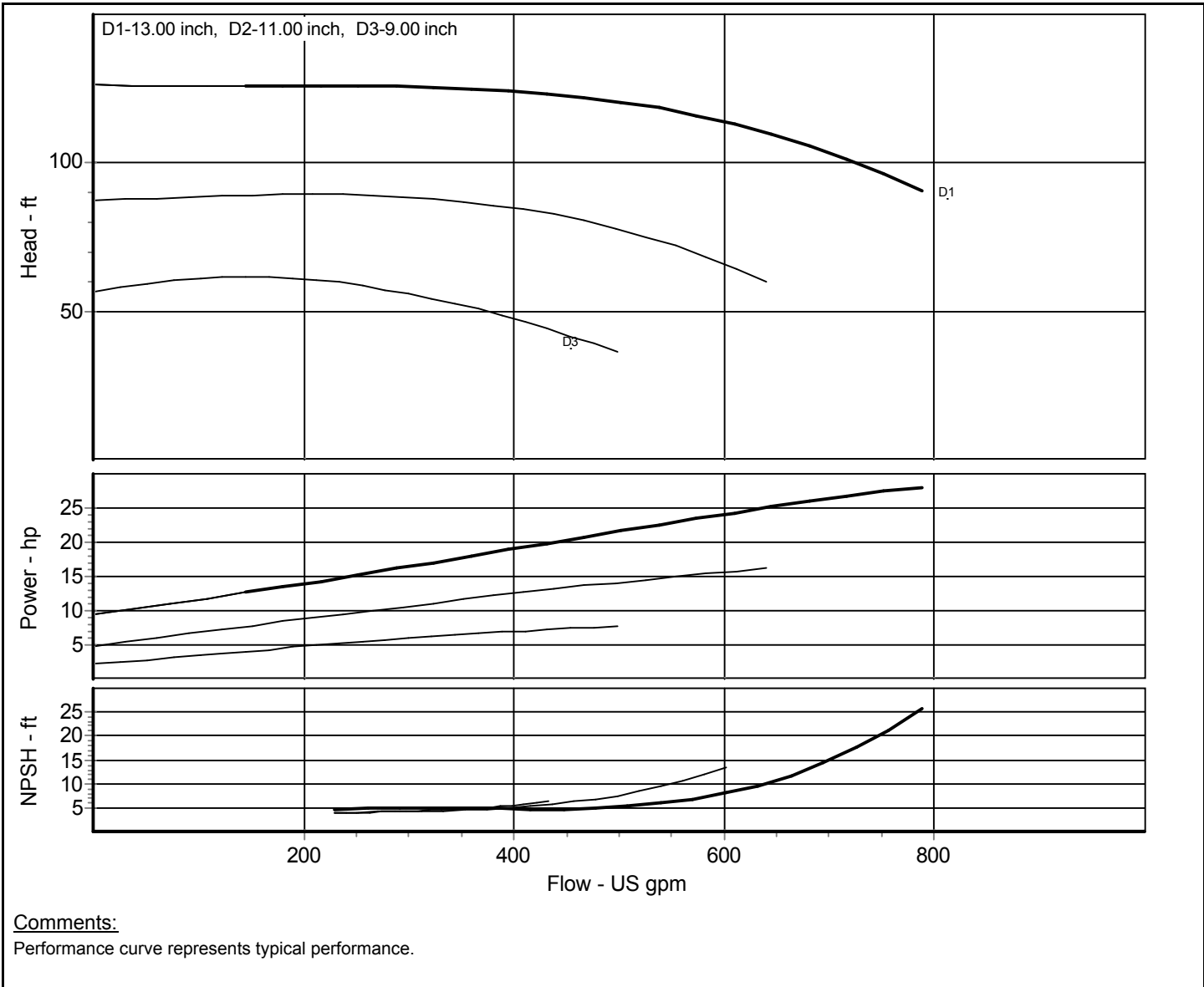


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 3x4-13 6V LTP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz039</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>28.11</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>126.304</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



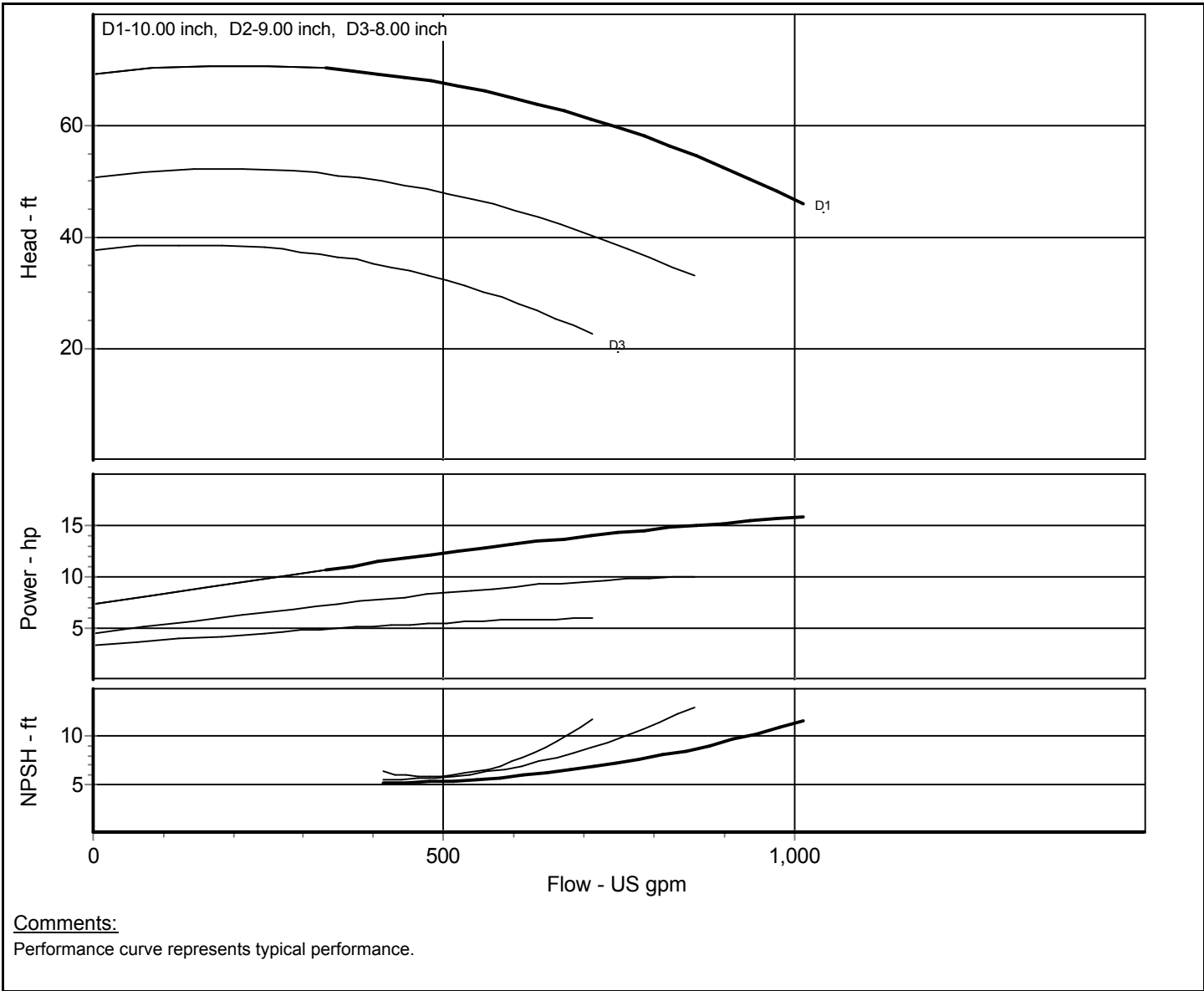


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 4x6-10 MTP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow : <b>US gpm</b>
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/8 inch</b>	Duty Head : <b>ft</b>
	Temperature: <b>68 °F</b>	Efficiency : <b>%</b>
	Viscosity: <b>1.009 cP</b>	Power Required : <b>hp</b>
Curve No.: <b>8196-50hz027</b>	Sp. Gravity: <b>1.000</b>	NPSH Required : <b>ft</b>
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>15.79 hp</b>
Item : <b>1</b>		Closed Valve Pressure <b>69.341 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>	





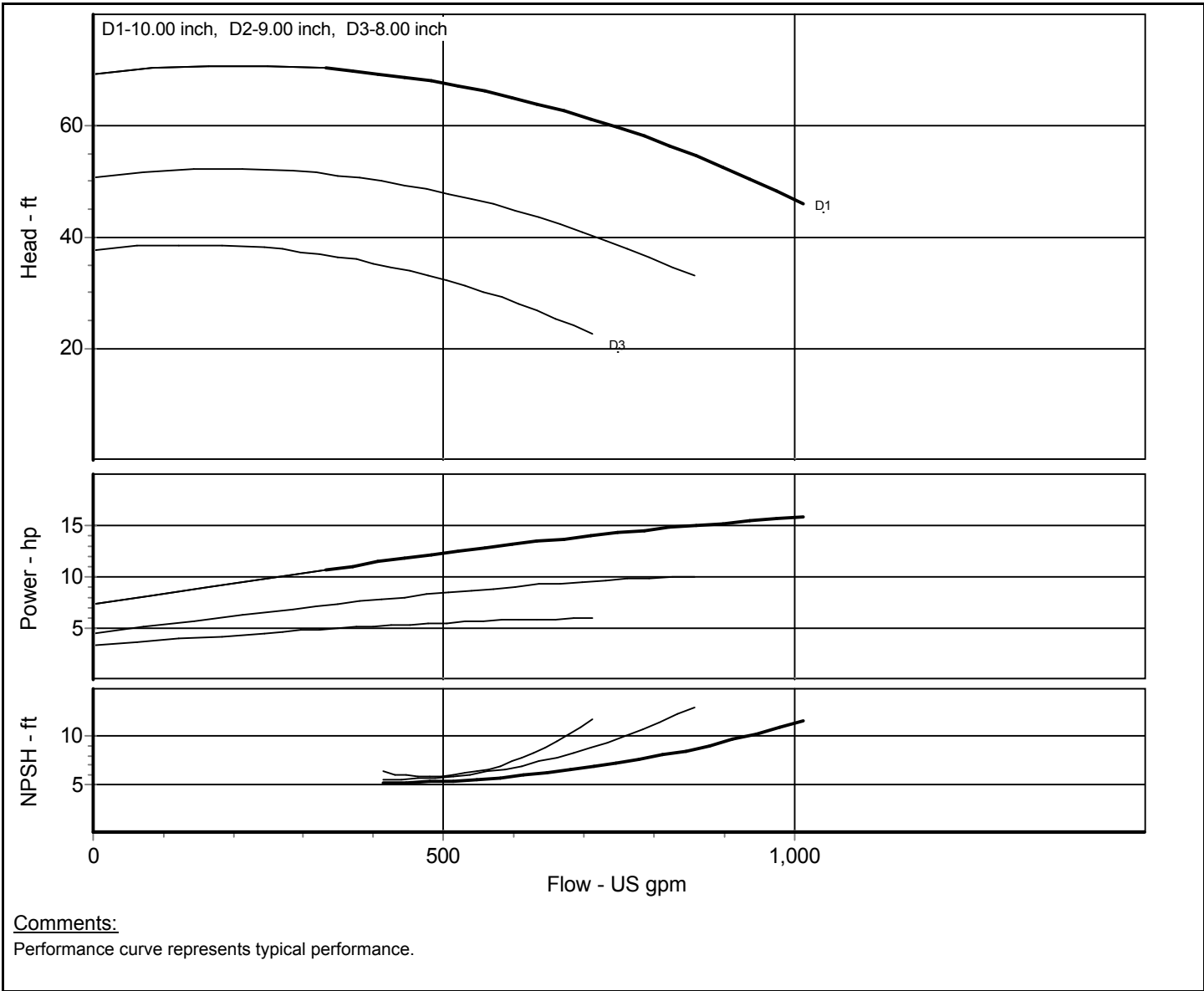
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<b>Project :</b>		<b>Contact :</b>	
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Phone :</b>	<b>Fax :</b>
		<b>Date :</b>	

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Pump Model: <b>Peerless - 4x6-10 LTP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/8 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-50hz027</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>15.79 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>69.341 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





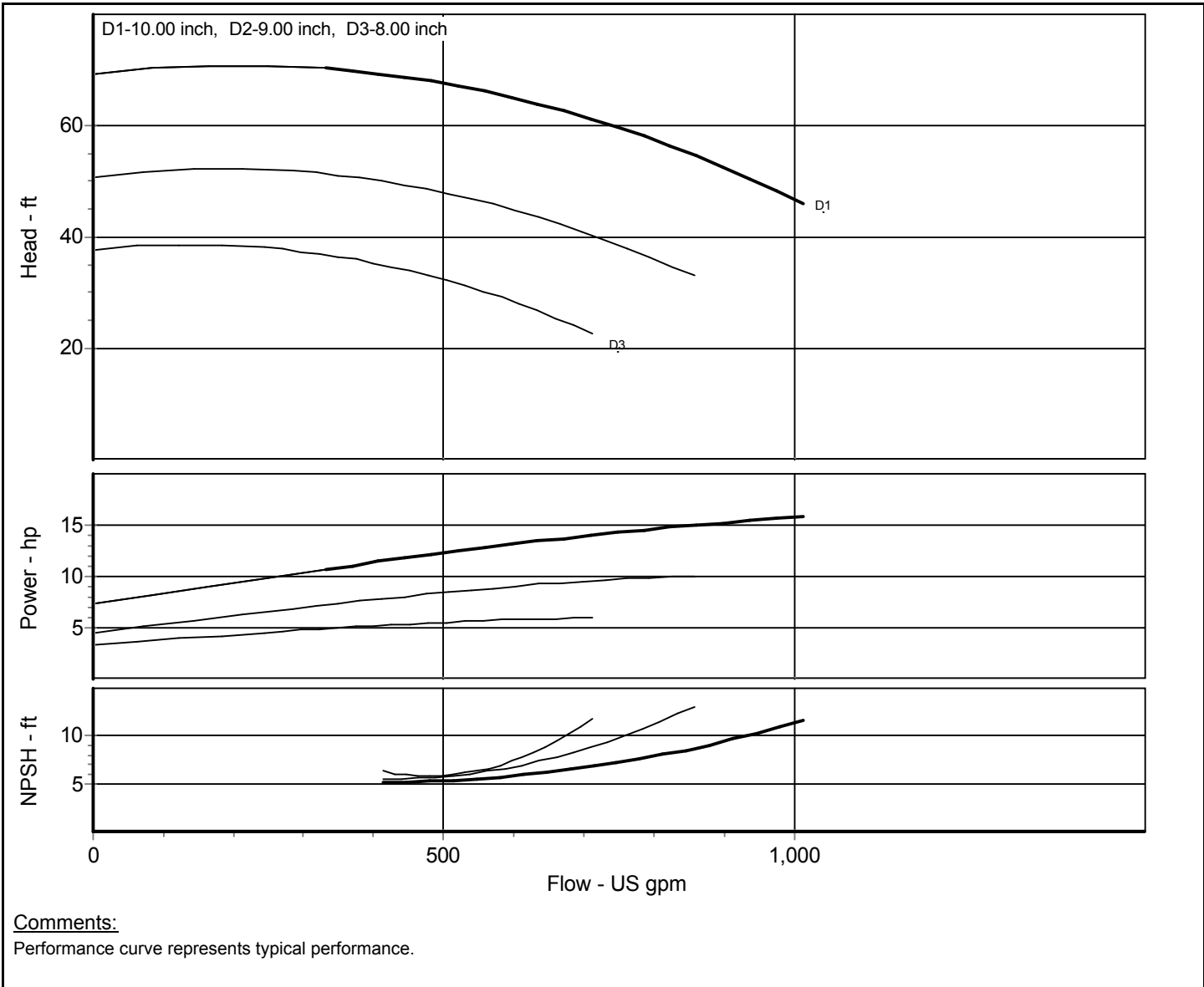


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<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 4x6-10 LTP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/8 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-50hz027</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>15.79 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>69.341 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



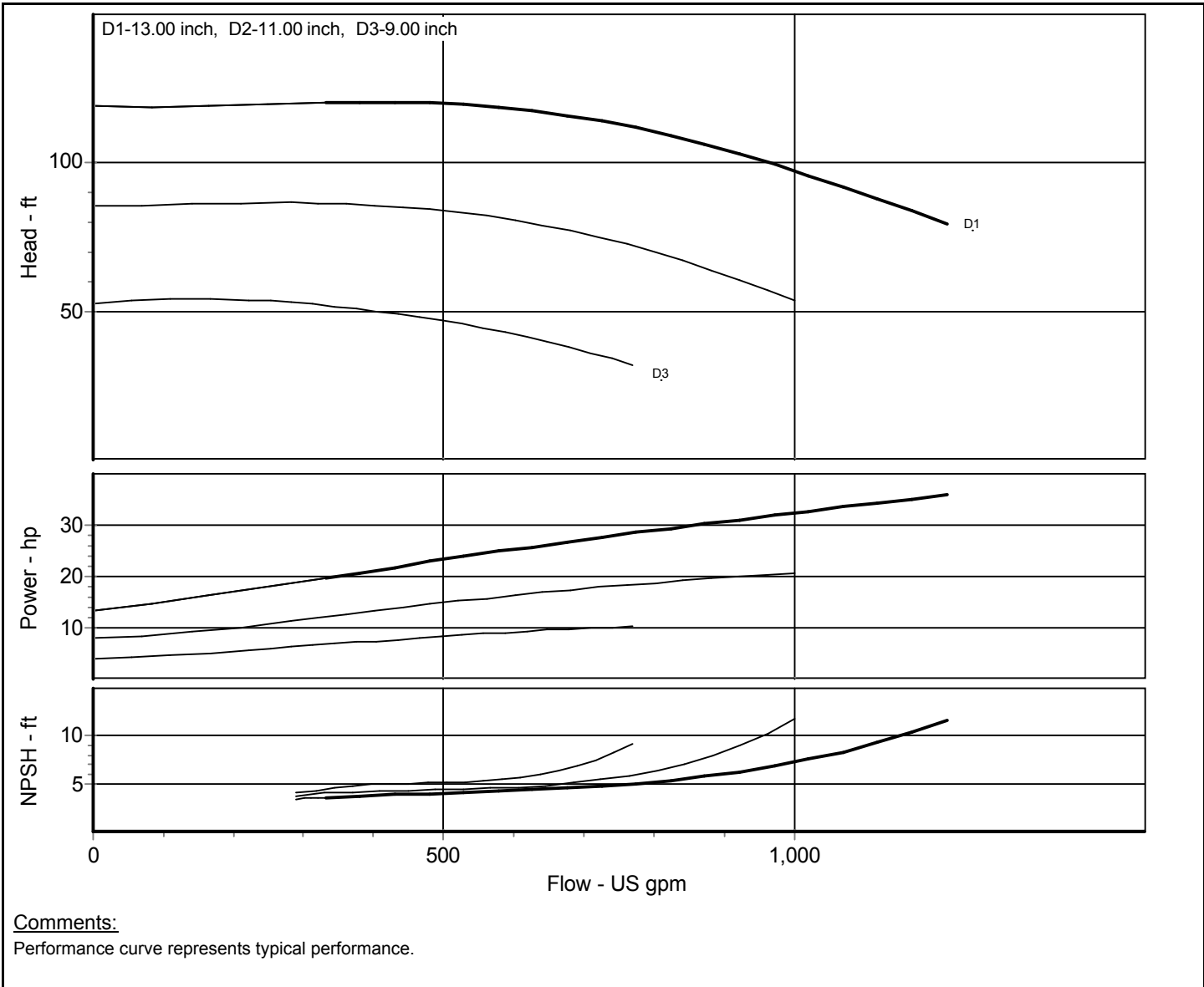


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Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 4x6-13 MTP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz041</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>35.9</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>119.455</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





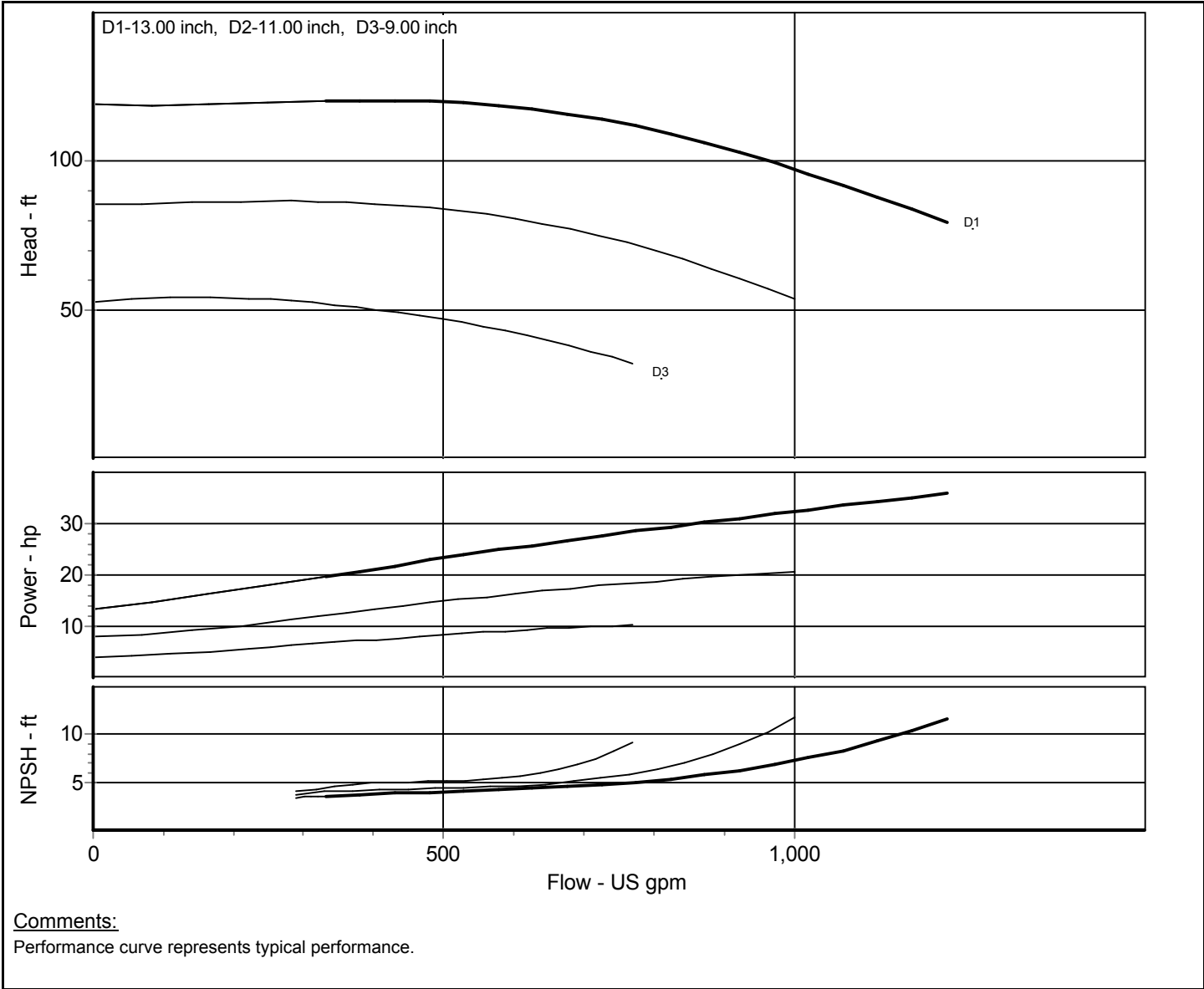
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<b>Project :</b>	<b>Contact :</b>		
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Phone :</b>	<b>Fax :</b>
		<b>Date :</b>	

Pump Model: <b>Peerless - 4x6-13 LTP 8196</b>	Nom. Speed: <b>1450 RPM, 50 Hz Electric</b>	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9 inch</b>	Duty Head :	ft
	Temperature: <b>68 °F</b>	Efficiency :	%
	Viscosity: <b>1.009 cP</b>	Power Required :	hp
Curve No.: <b>8196-50hz041</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>35.9 hp</b>
Item : <b>1</b>		Closed Valve Pressure	<b>119.455 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.



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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 6x8-13 XLTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **1450 RPM, 50 Hz Electric**  
 Impeller Dia.: **13/10 inch**

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68 °F**  
 Viscosity: **1.009 cP**  
 Sp. Gravity: **1.000**

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-50hz043**

Fluid: **Water**

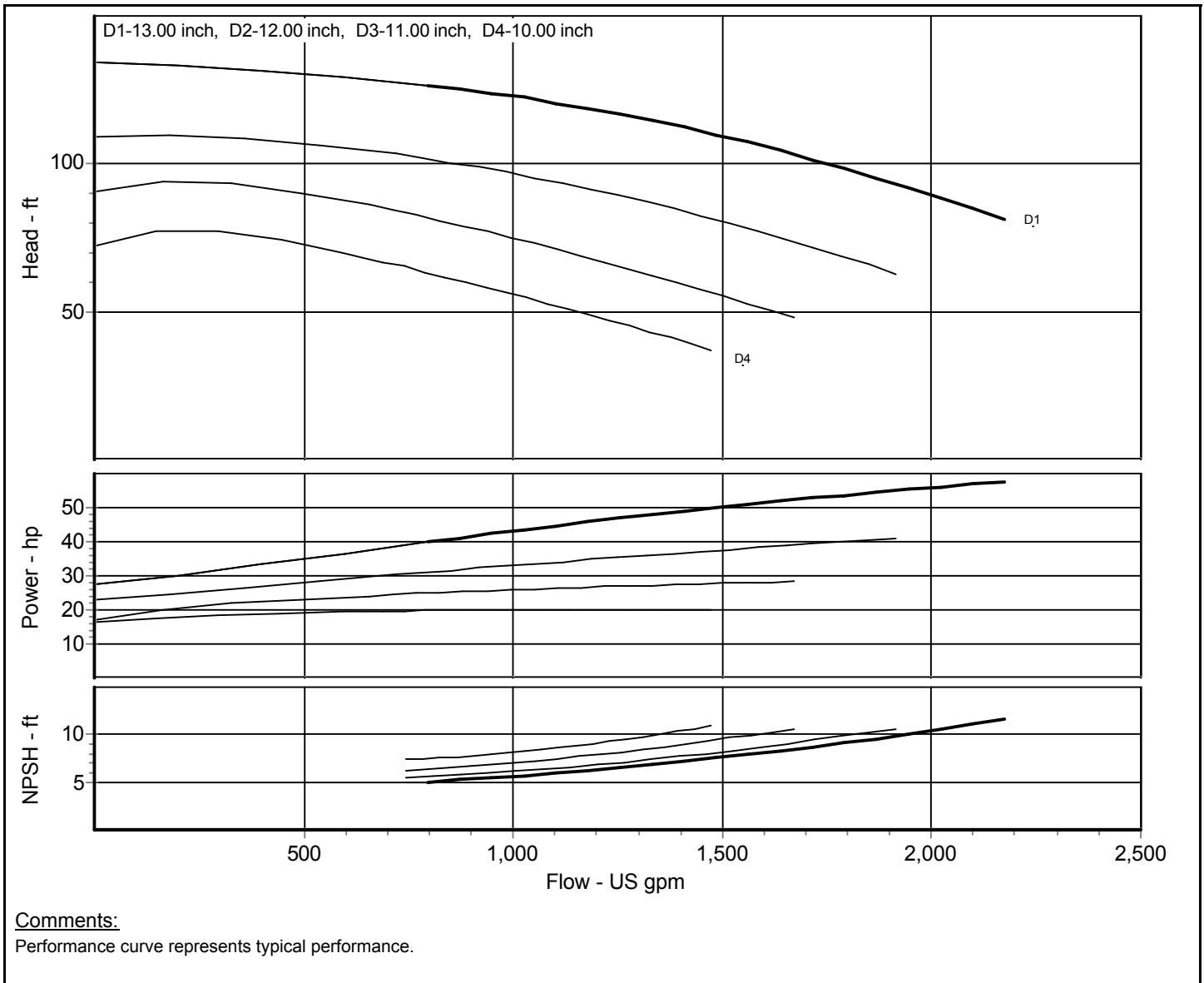
Peak Power: **57.63 hp**  
 Closed Valve Pressure **134.56 ft**

Impeller No.

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



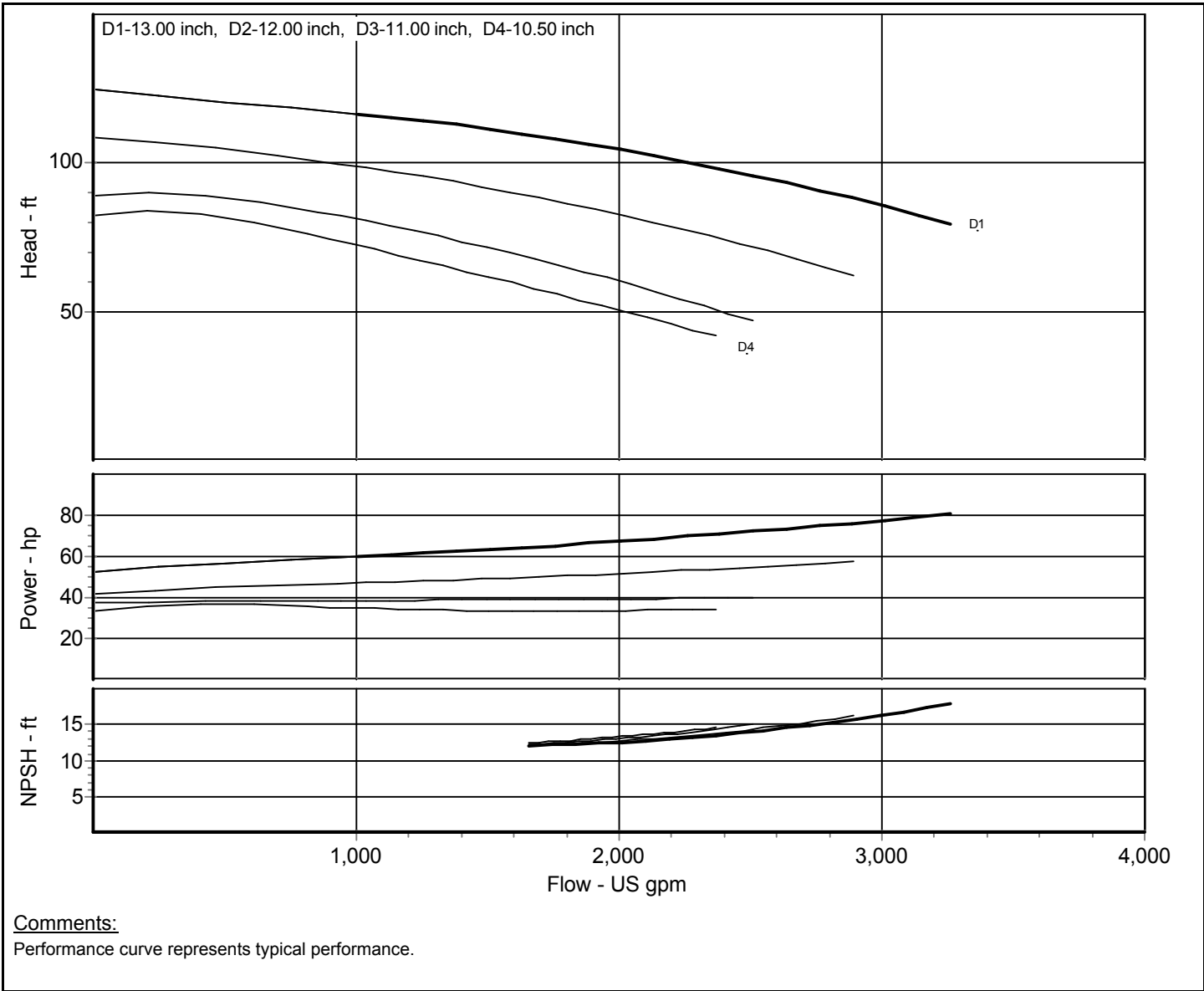


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Project : Page No. : Contact : Fax :  
 Quote No. : Date : Phone :

Pump Model: <b>Peerless - 8x10-13 XLTP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/10.5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz045</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>80.57</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>124.948</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

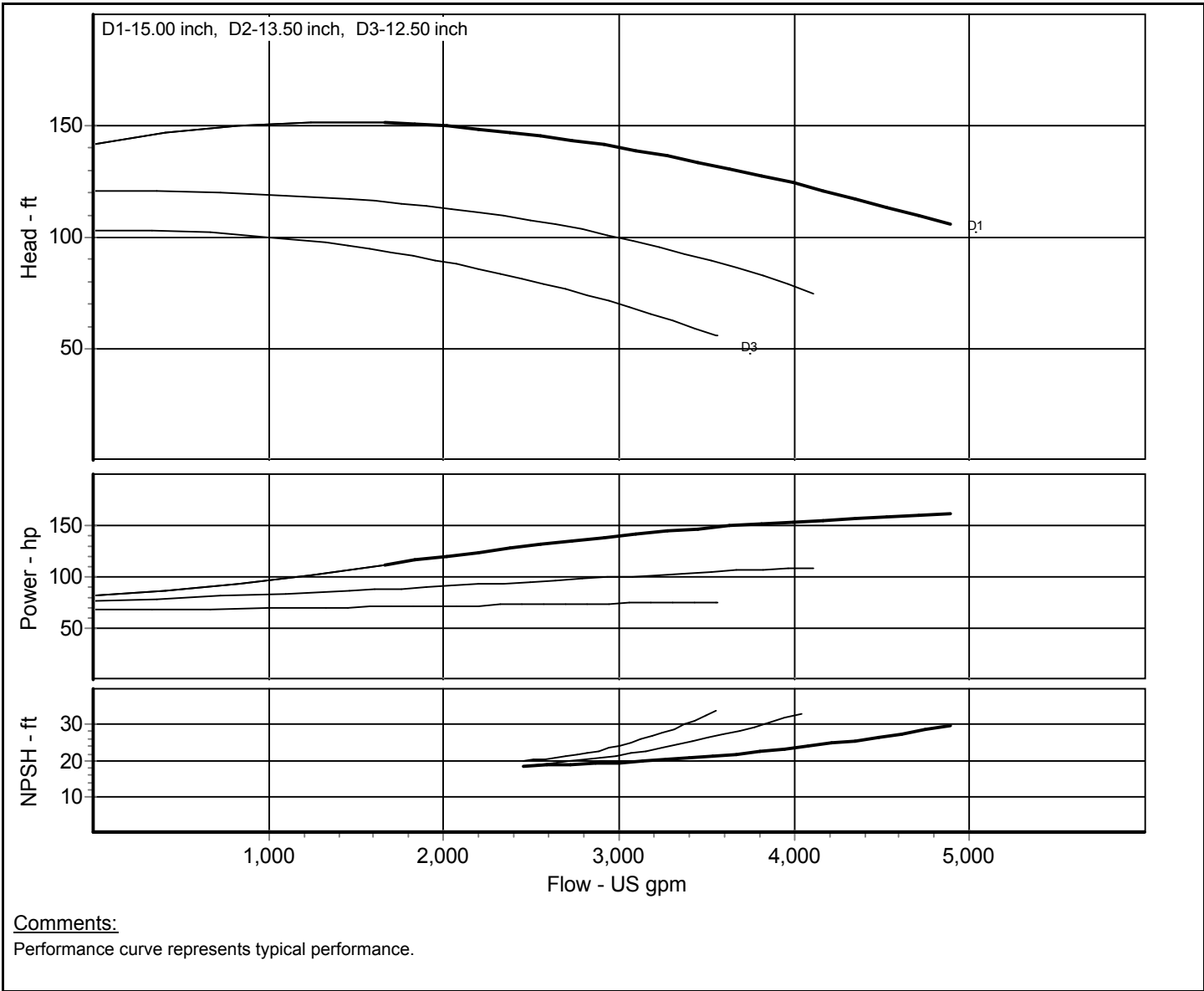


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Customer :

Project : Page No. : Contact : Fax :  
 Quote No. : Date : Phone :

Pump Model: <b>Peerless - 8x10-15 XLTP 8196</b>	Nom. Speed: <b>1450</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>15/12.5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz049A</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>162.36</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>141.939</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





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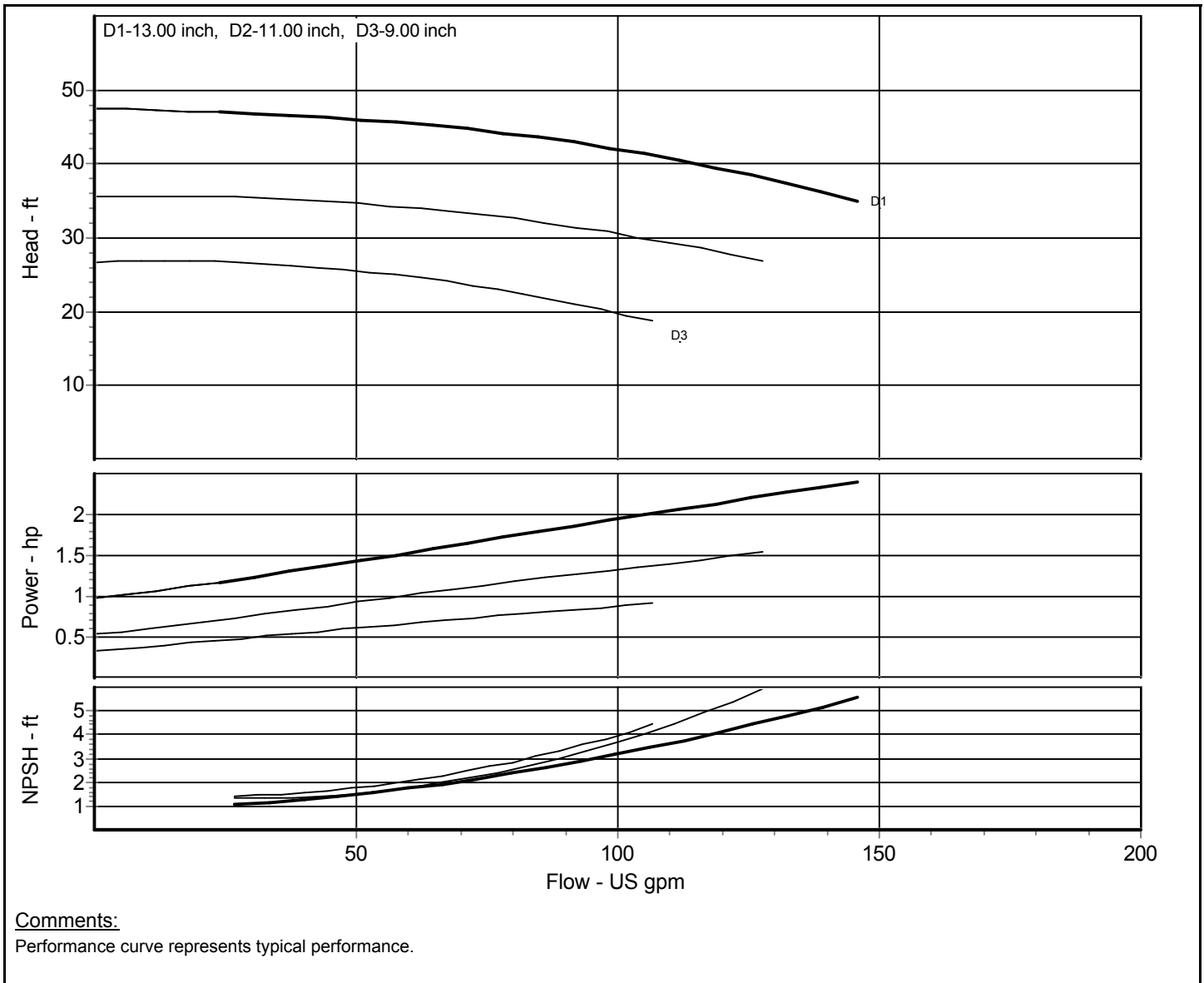
Project :  
Quote No. :

Page No. :

Contact :  
Phone :  
Date :

Fax :

Pump Model: <b>Peerless - 1.5x3-13 MTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz031</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>2.4</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>47.529</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:

Performance curve represents typical performance.

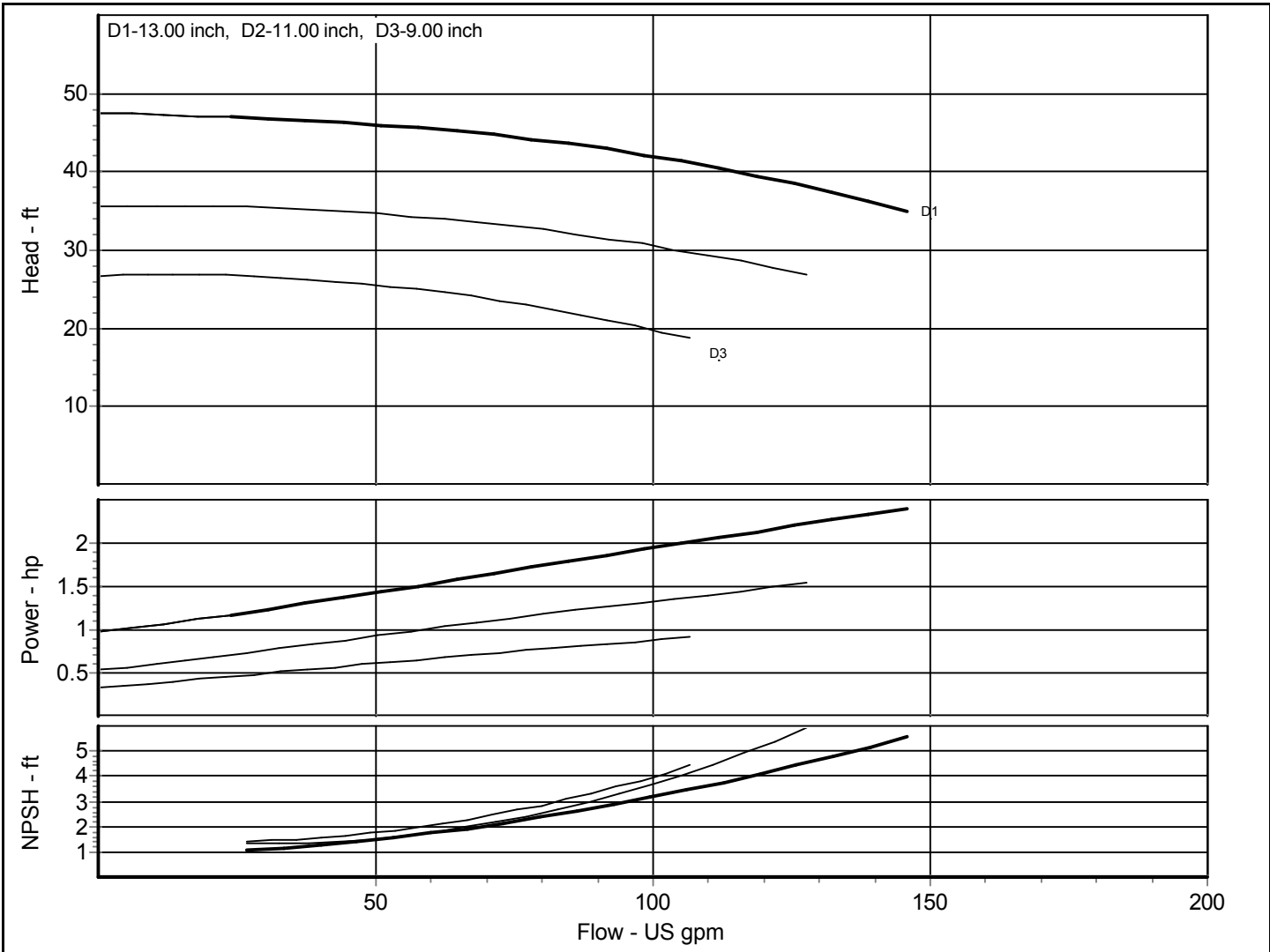


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Indianapolis, Indiana 46207-7026

<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 1.5x3-13 LTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz031</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>2.4</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>47.529</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.





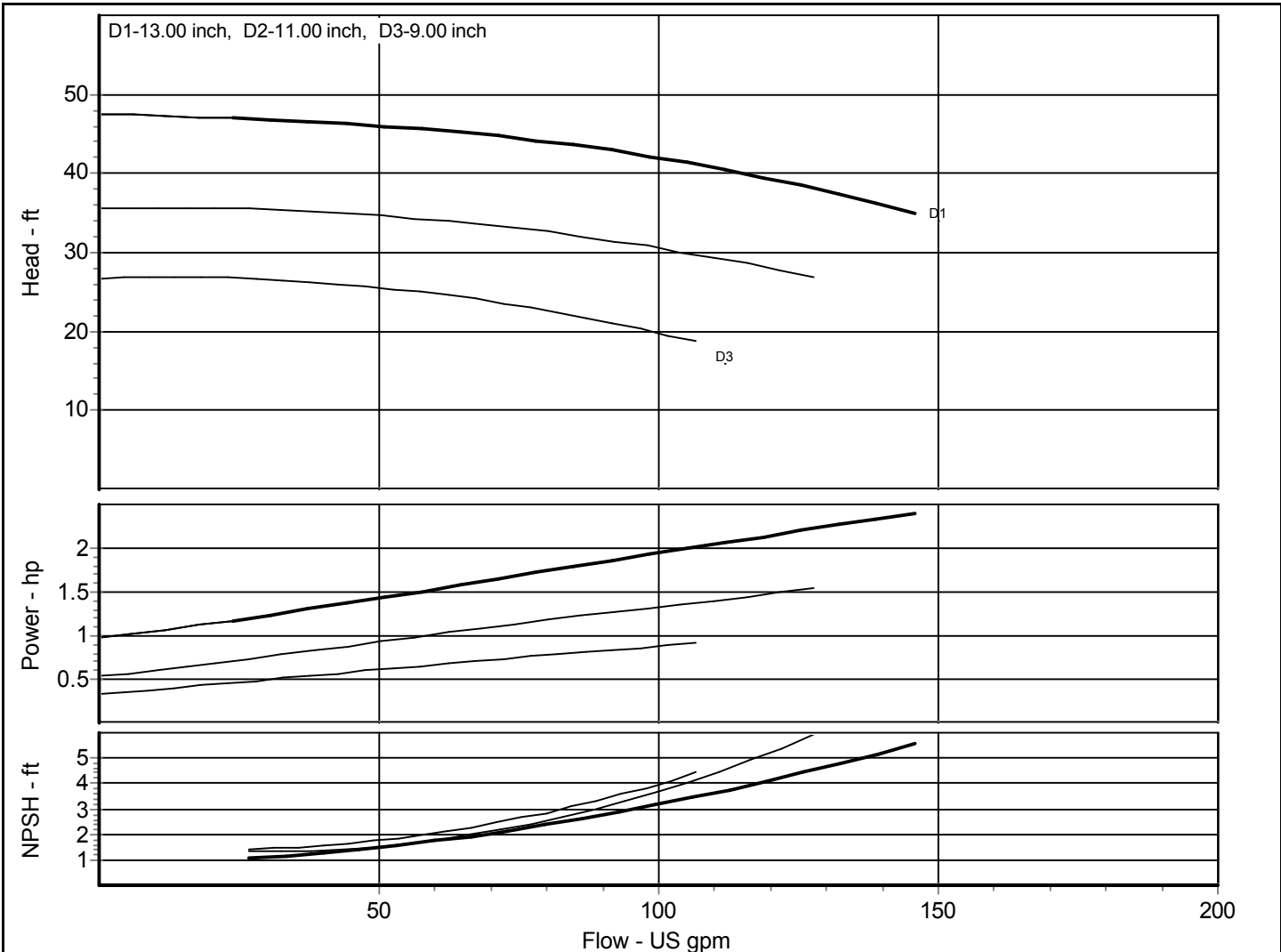
Customer :

Peerless Pump Company, LLC  
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<b>Project :</b>		<b>Contact :</b>	
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Date :</b>		<b>Date :</b>	

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Pump Model: <b>Peerless - 1.5x3-13 MTP 8196</b>	Nom. Speed: <b>960 RPM, 50 Hz Electric</b>	Duty Flow : <b>US gpm</b>
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9 inch</b>	Duty Head : <b>ft</b>
	Temperature: <b>68 °F</b>	Efficiency : <b>%</b>
	Viscosity: <b>1.009 cP</b>	Power Required : <b>hp</b>
Curve No.: <b>8196-50hz031</b>	Sp. Gravity: <b>1.000</b>	NPSH Required : <b>ft</b>
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>2.4 hp</b>
Item : <b>1</b>		Closed Valve Pressure <b>47.529 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>	



Comments:  
Performance curve represents typical performance.

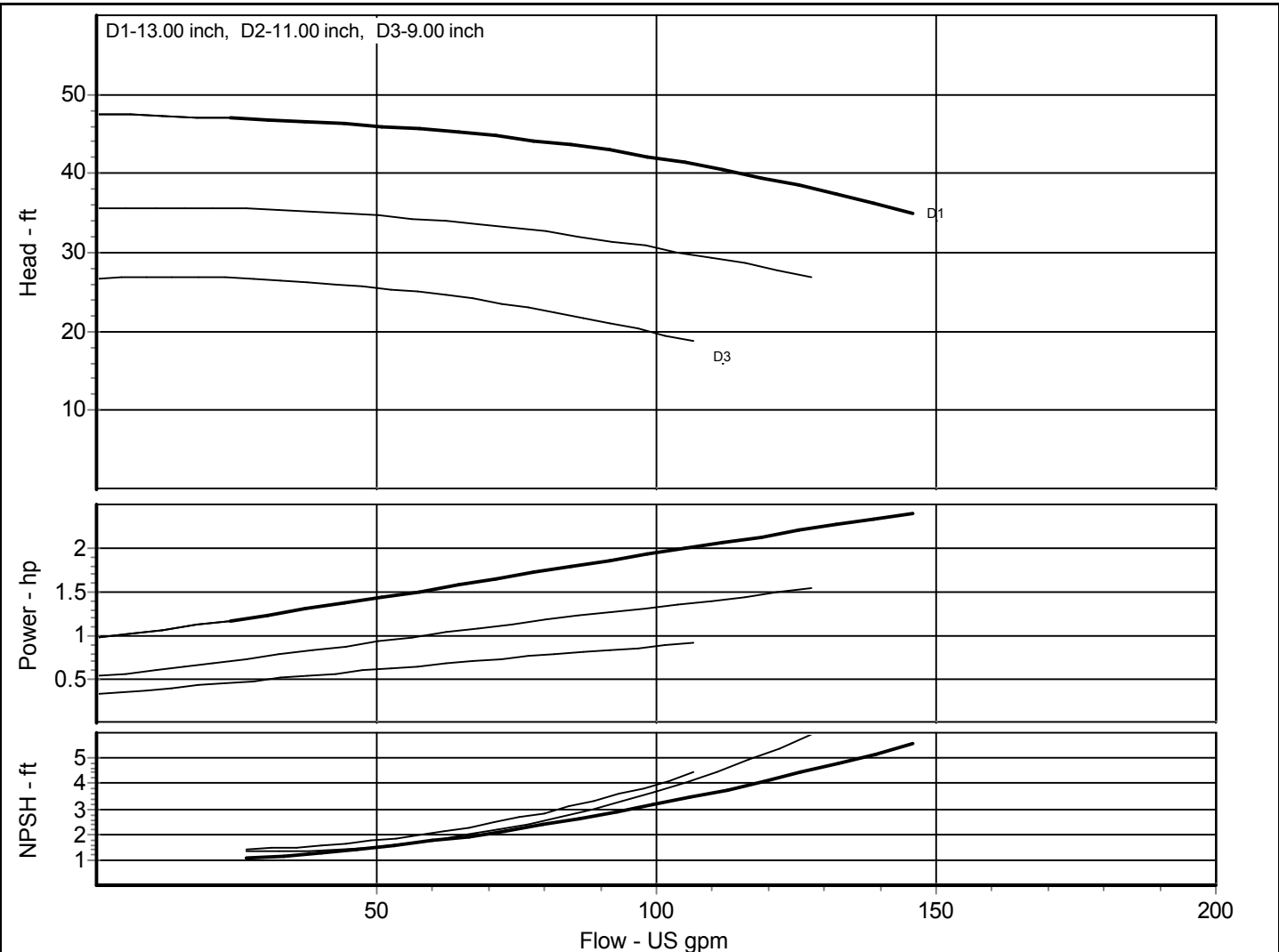


Customer :

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Indianapolis, Indiana 46207-7026

<b>Project :</b>	<b>Contact :</b>	<b>Phone :</b>	<b>Fax :</b>
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 1.5x3-13 LTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz031</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>2.4</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>47.529</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
Performance curve represents typical performance.



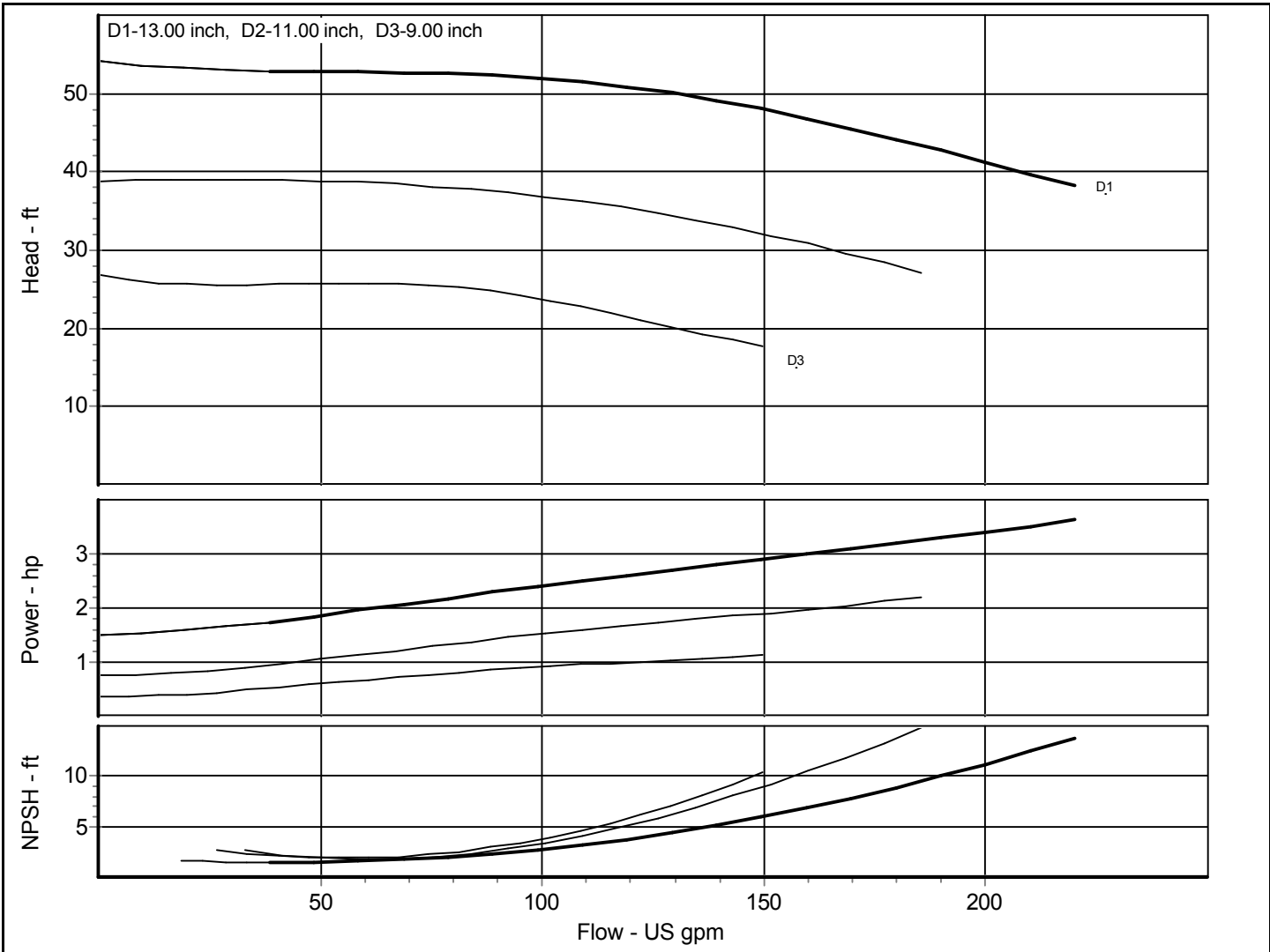
Peerless Pump Company, LLC  
 Indianapolis, Indiana 46207-7026

Customer :

<b>Project :</b>		<b>Contact :</b>	
<b>Quote No. :</b>	<b>Page No. :</b>	<b>Phone :</b>	<b>Fax :</b>
		<b>Date :</b>	

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Pump Model: <b>Peerless - 2x3-13 MTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz034</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>3.62</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>54.207</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

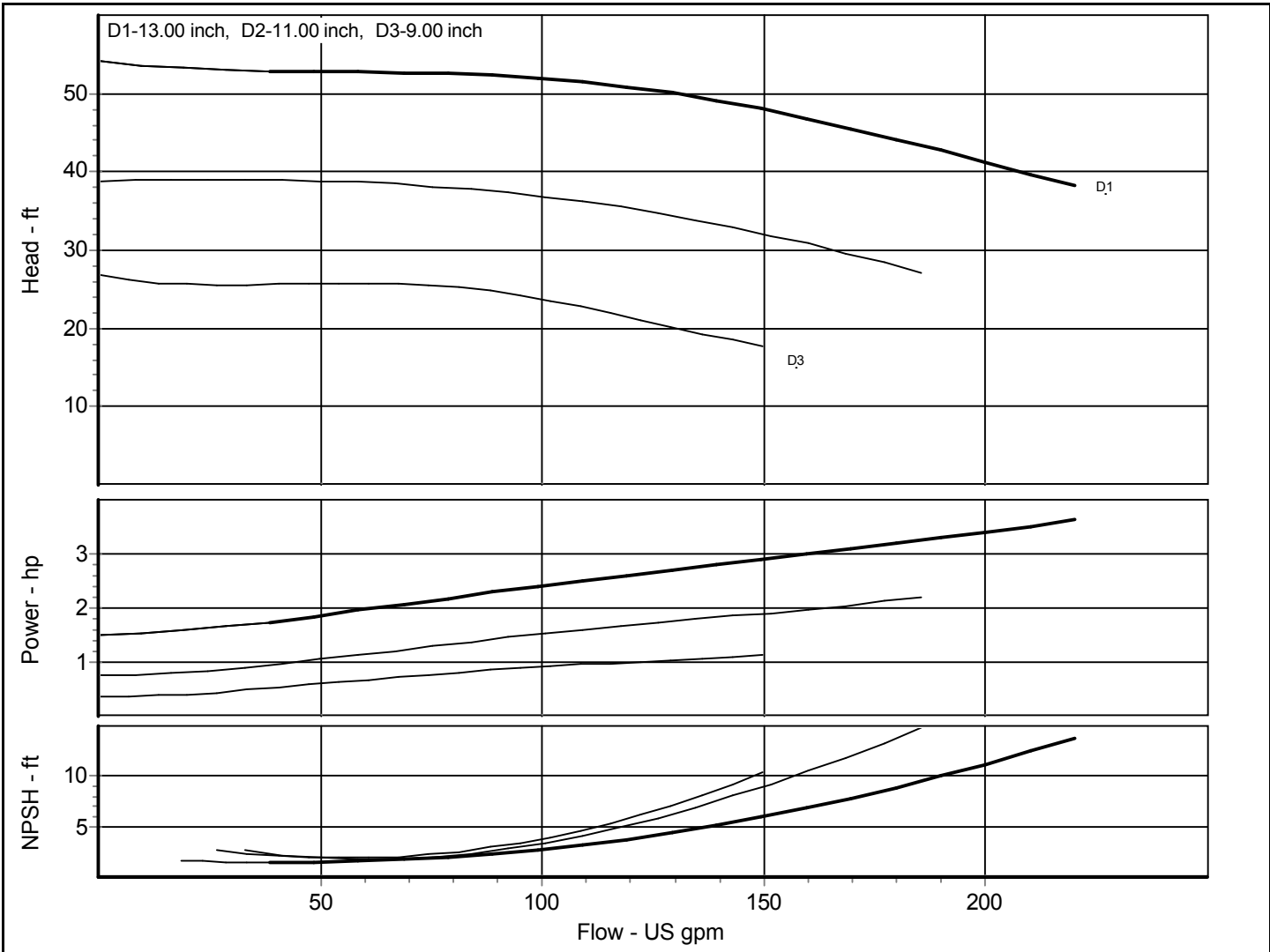


Peerless Pump Company, LLC  
 Indianapolis, Indiana 46207-7026

Customer :

Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 2x3-13 LTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz034</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>3.62</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>54.207</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

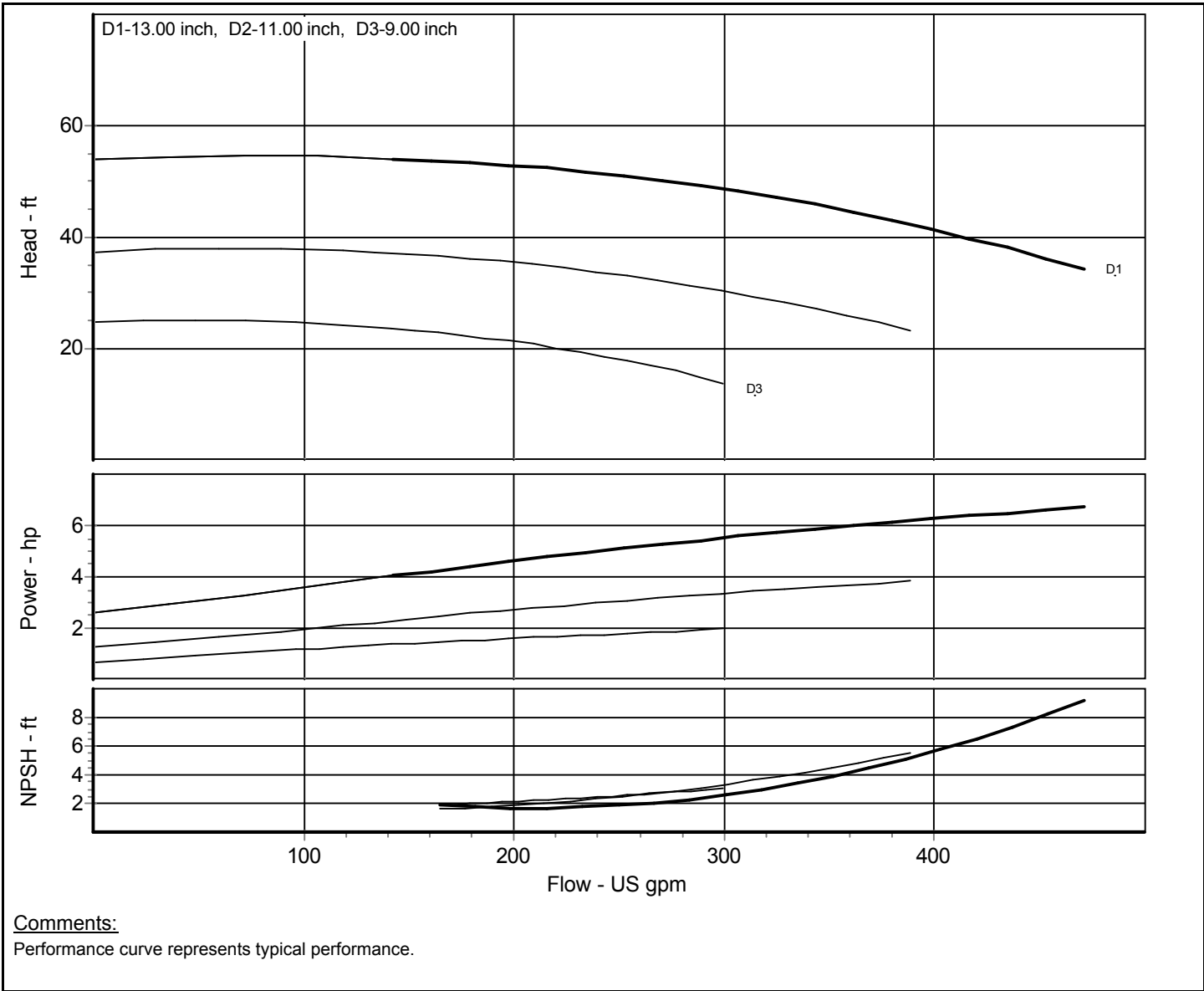


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Customer :

Project : Page No. : Contact : Fax :  
 Quote No. : Date : Phone :

Pump Model: <b>Peerless - 3x4-13 5V MTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz037</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>6.72</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>54.165</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.



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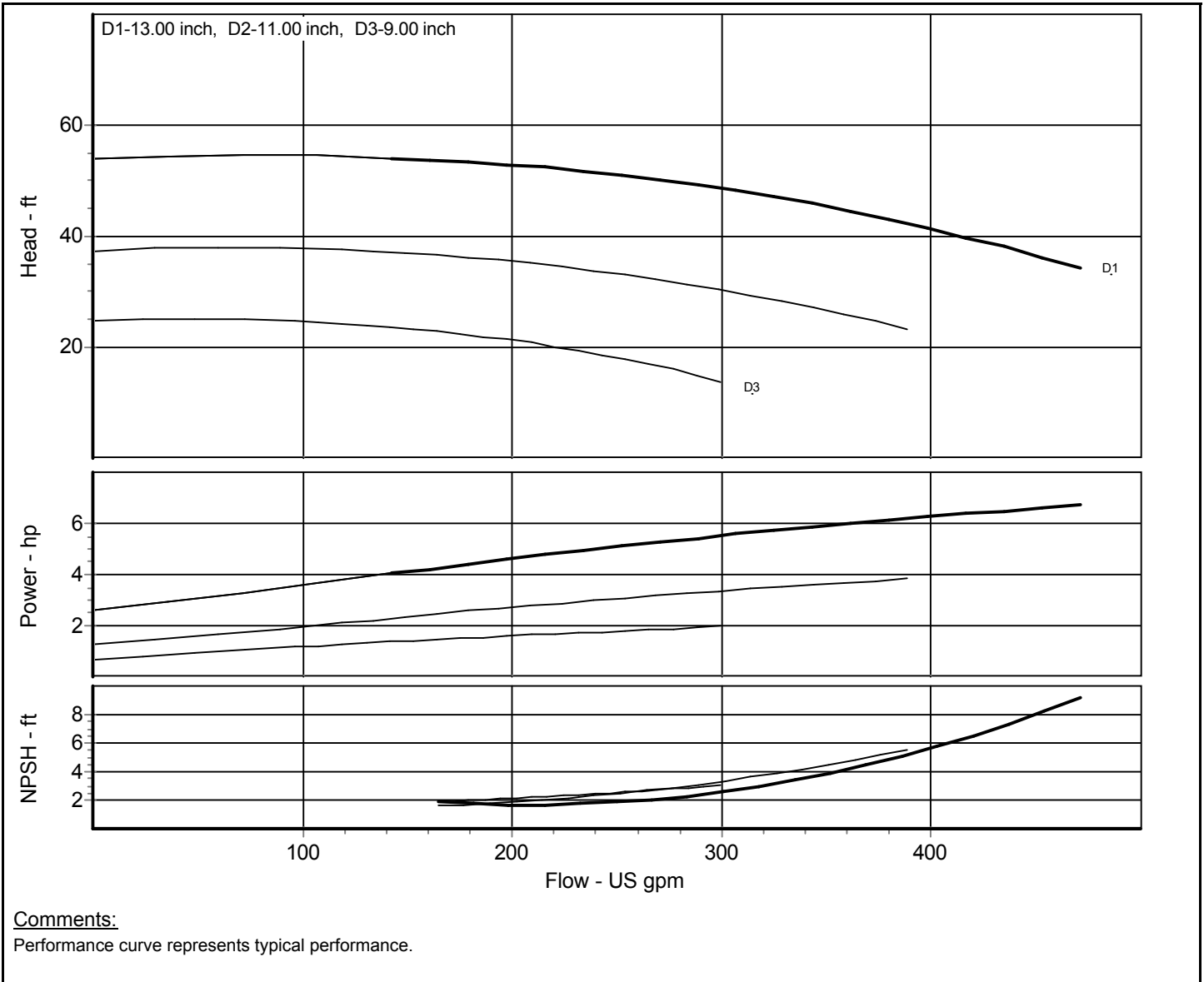
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 3x4-13 5V LTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz037</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>6.72</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>54.165</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



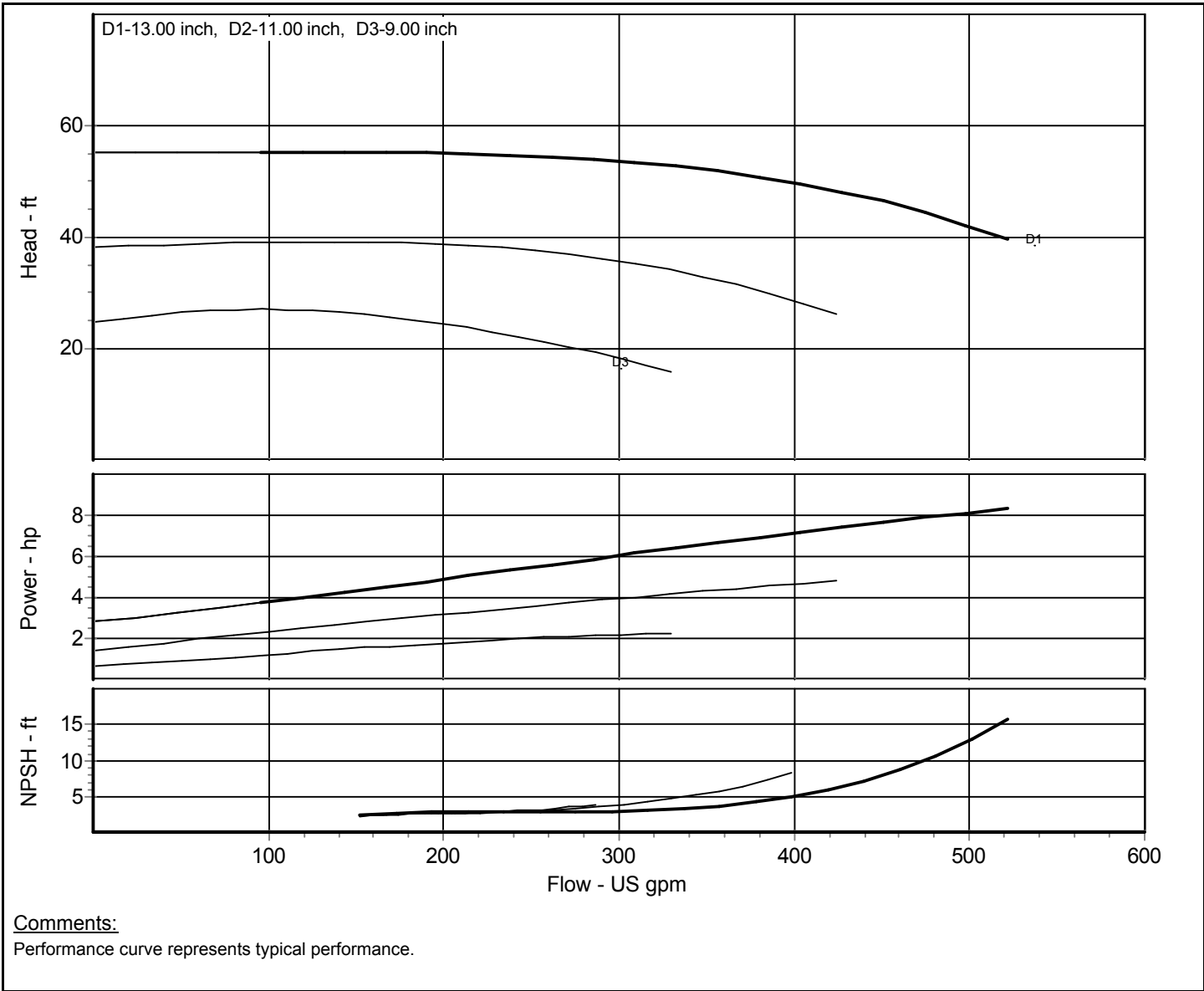


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 Indianapolis, Indiana 46207-7026

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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 3x4-13 6V MTP 8196** Nom. Speed: **960** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **13/9** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **8.31** hp  
 Fluid: **Water** Closed Valve Pressure **55.364** ft  
 Curve No.: **8196-50hz040**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



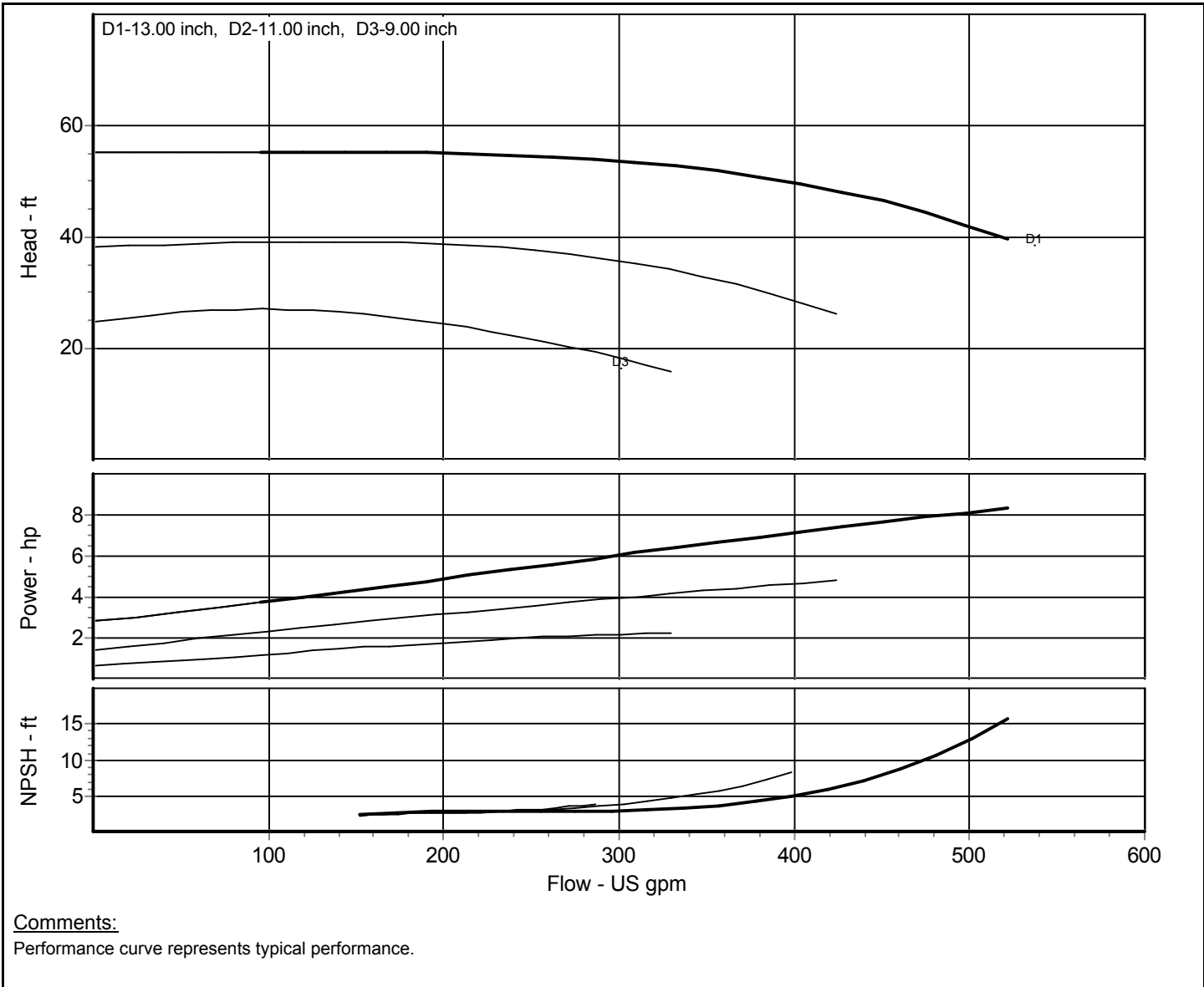


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Customer :

Project : Contact :  
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 Date :

Pump Model: <b>Peerless - 3x4-13 6V LTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz040</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>8.31</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>55.364</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		







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Customer :

Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: **Peerless - 4x6-10 MTP 8196**  
 Type: **8196 - ANSI Standard End Suction**

Nom. Speed: **960** RPM, 50 Hz Electric  
 Impeller Dia.: **10/8** inch

Duty Flow : US gpm  
 Duty Head : ft  
 Efficiency : %

Temperature: **68** °F  
 Viscosity: **1.009** cP

Power Required : hp  
 NPSH Required : ft

Curve No.: **8196-50hz028**

Sp. Gravity: **1.000**

Peak Power: **4.63** hp

Impeller No.

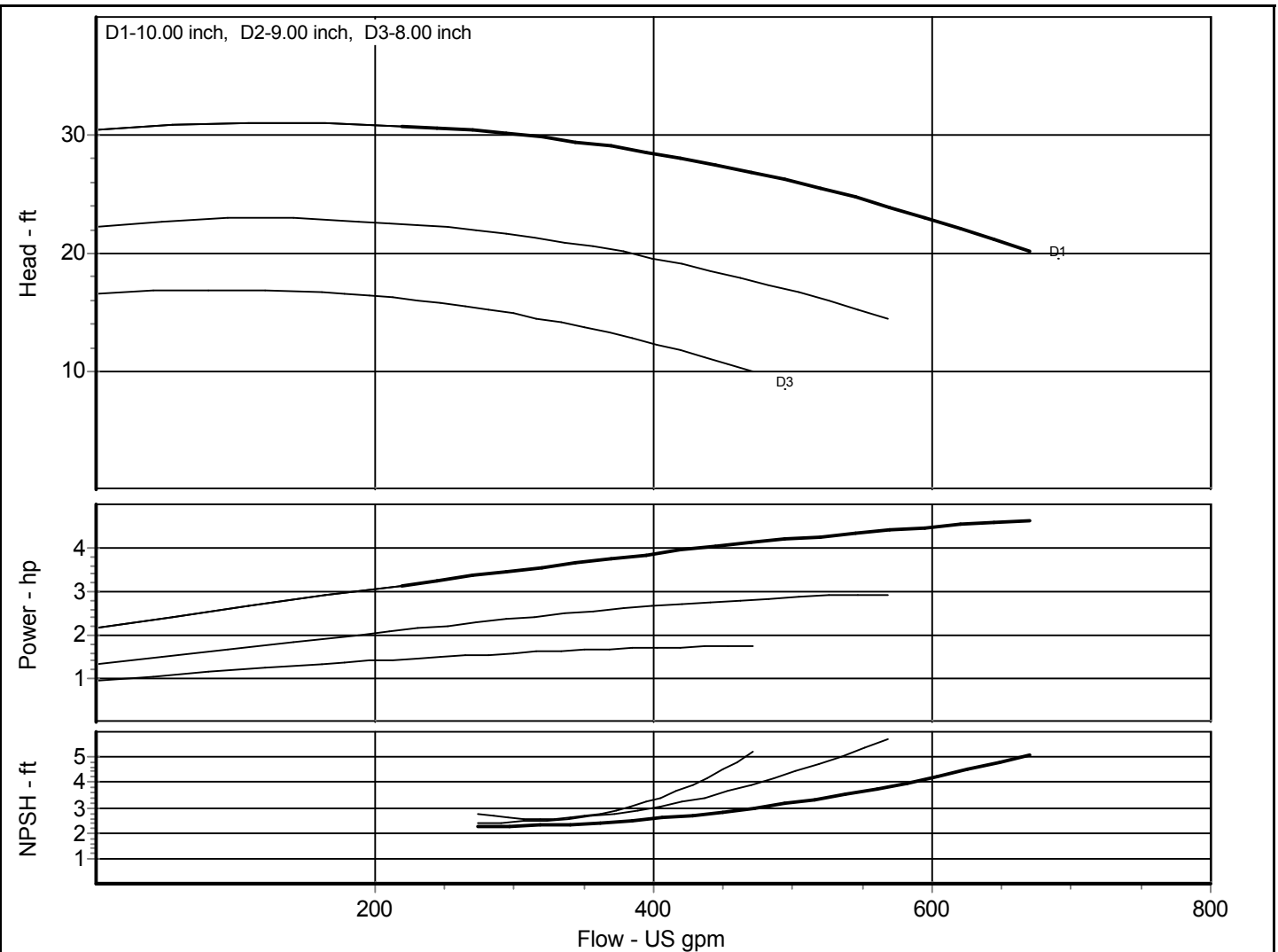
Fluid: **Water**

Closed Valve Pressure **30.395** ft

Item : **1**

Your Ref.:

Tolerance : **Hyd Inst-Peerless Std**



Comments:

Performance curve represents typical performance.

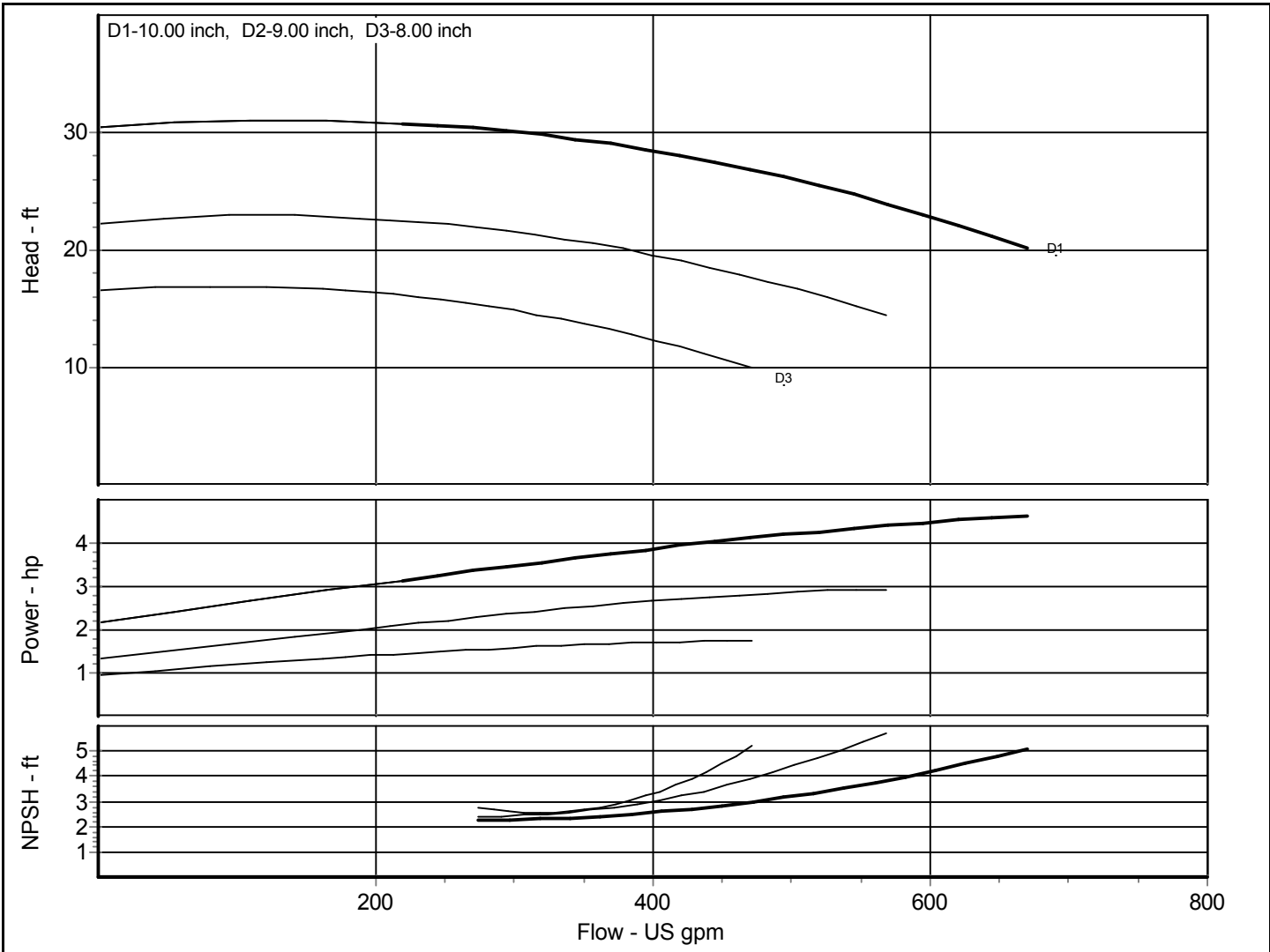


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 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 4x6-10 LTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>10/8</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz028</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>4.63</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>30.395</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

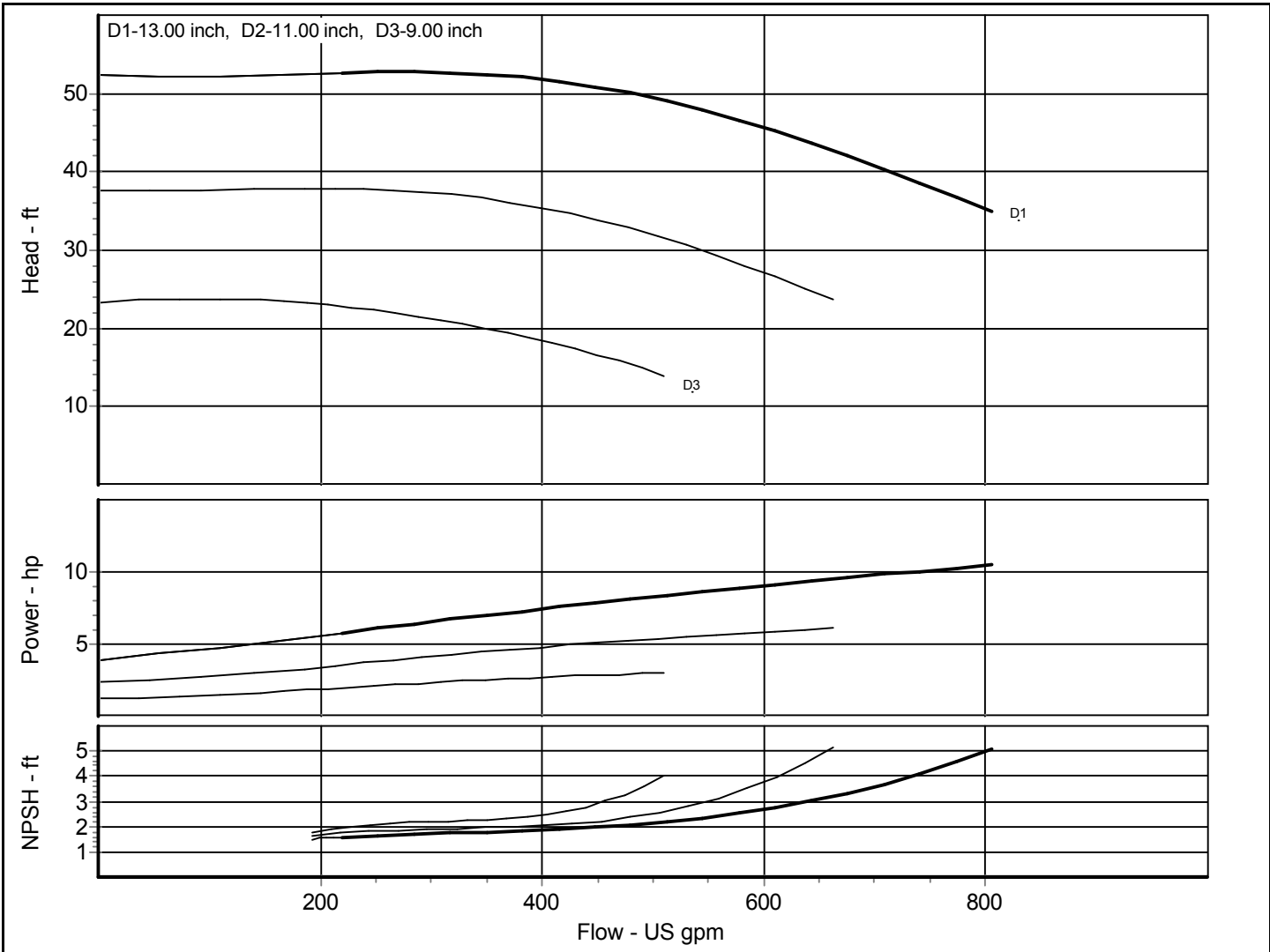


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<b>Quote No. :</b>	<b>Page No. :</b>	<b>Date :</b>	

Pump Model: <b>Peerless - 4x6-13 MTP 8196</b>	Nom. Speed: <b>960 RPM, 50 Hz Electric</b>	Duty Flow : <b>US gpm</b>
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9 inch</b>	Duty Head : <b>ft</b>
	Temperature: <b>68 °F</b>	Efficiency : <b>%</b>
	Viscosity: <b>1.009 cP</b>	Power Required : <b>hp</b>
Curve No.: <b>8196-50hz042</b>	Sp. Gravity: <b>1.000</b>	NPSH Required : <b>ft</b>
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>10.53 hp</b>
Item : <b>1</b>		Closed Valve Pressure <b>52.361 ft</b>
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>	



Comments:  
Performance curve represents typical performance.



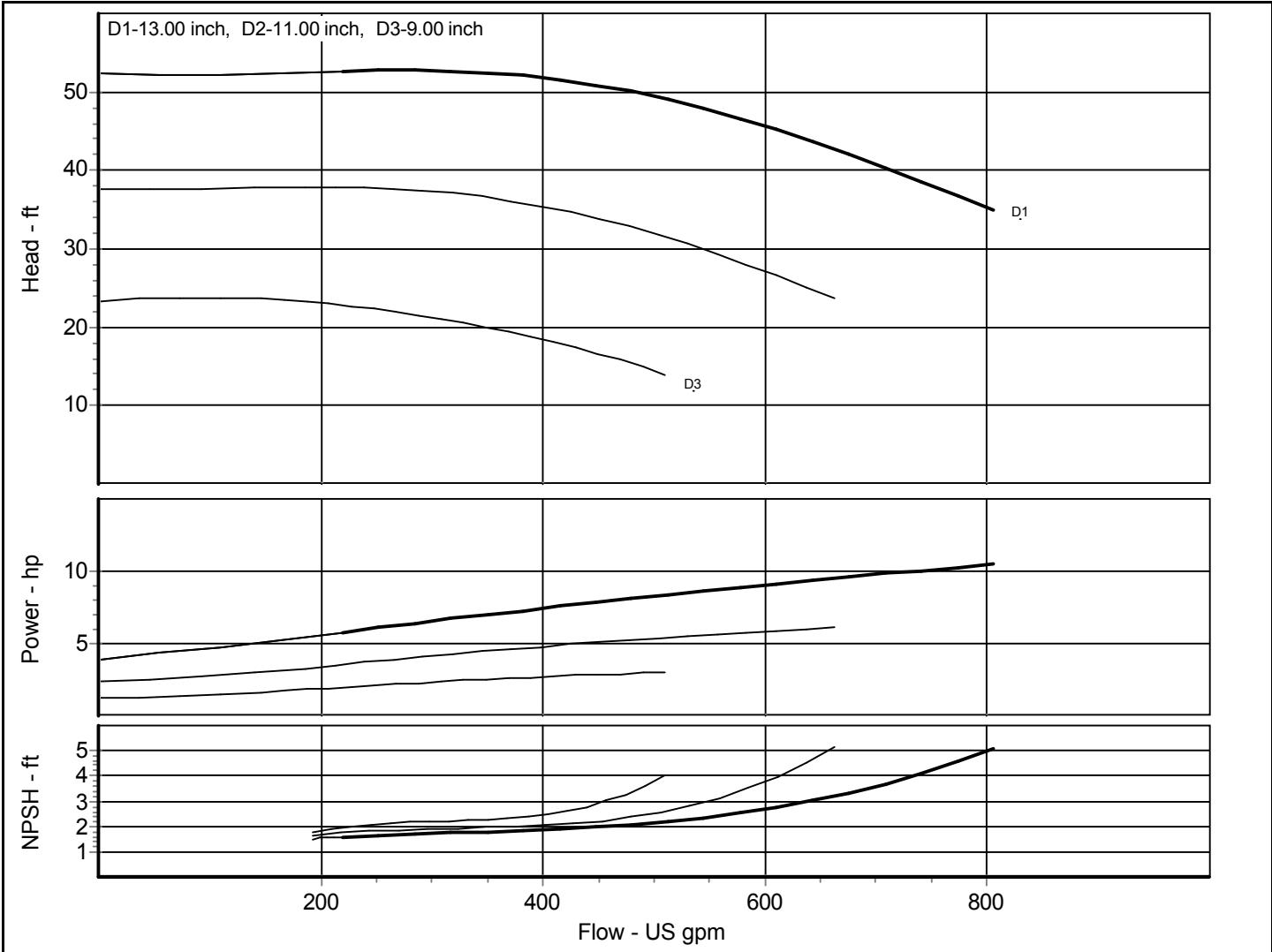
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<b>Quote No. :</b>	<b>Page No. :</b>	<b>Phone :</b>	<b>Fax :</b>
		<b>Date :</b>	

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Pump Model: <b>Peerless - 4x6-13 LTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/9</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz042</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>10.53</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>52.361</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.



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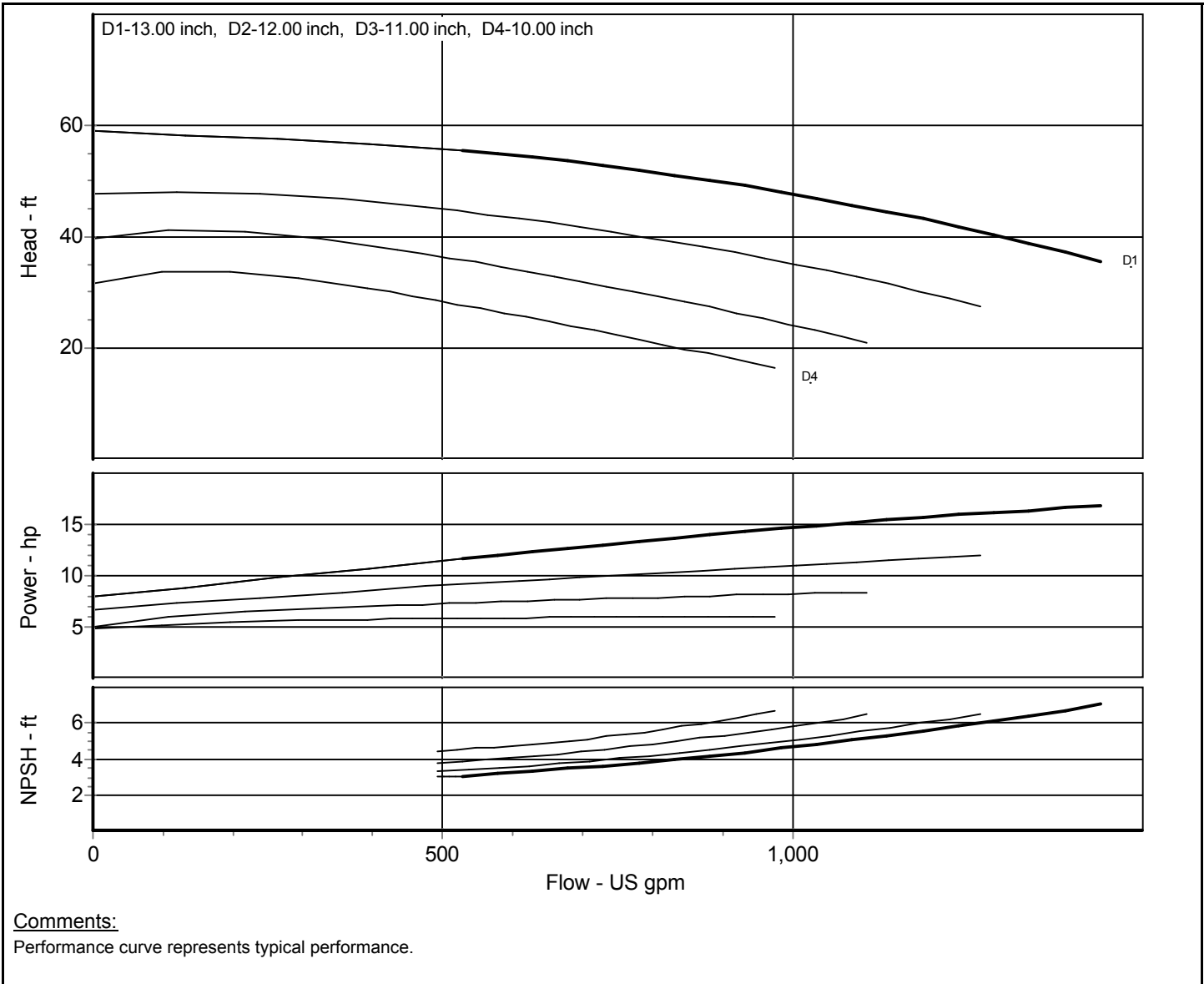
Project :  
 Quote No. :

Page No. :

Contact :  
 Phone :  
 Date :

Fax :

Pump Model: <b>Peerless - 6x8-13 XLTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>13/10</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz044</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power: <b>16.84</b> hp	
Item : <b>1</b>		Closed Valve Pressure <b>58.982</b> ft	
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		





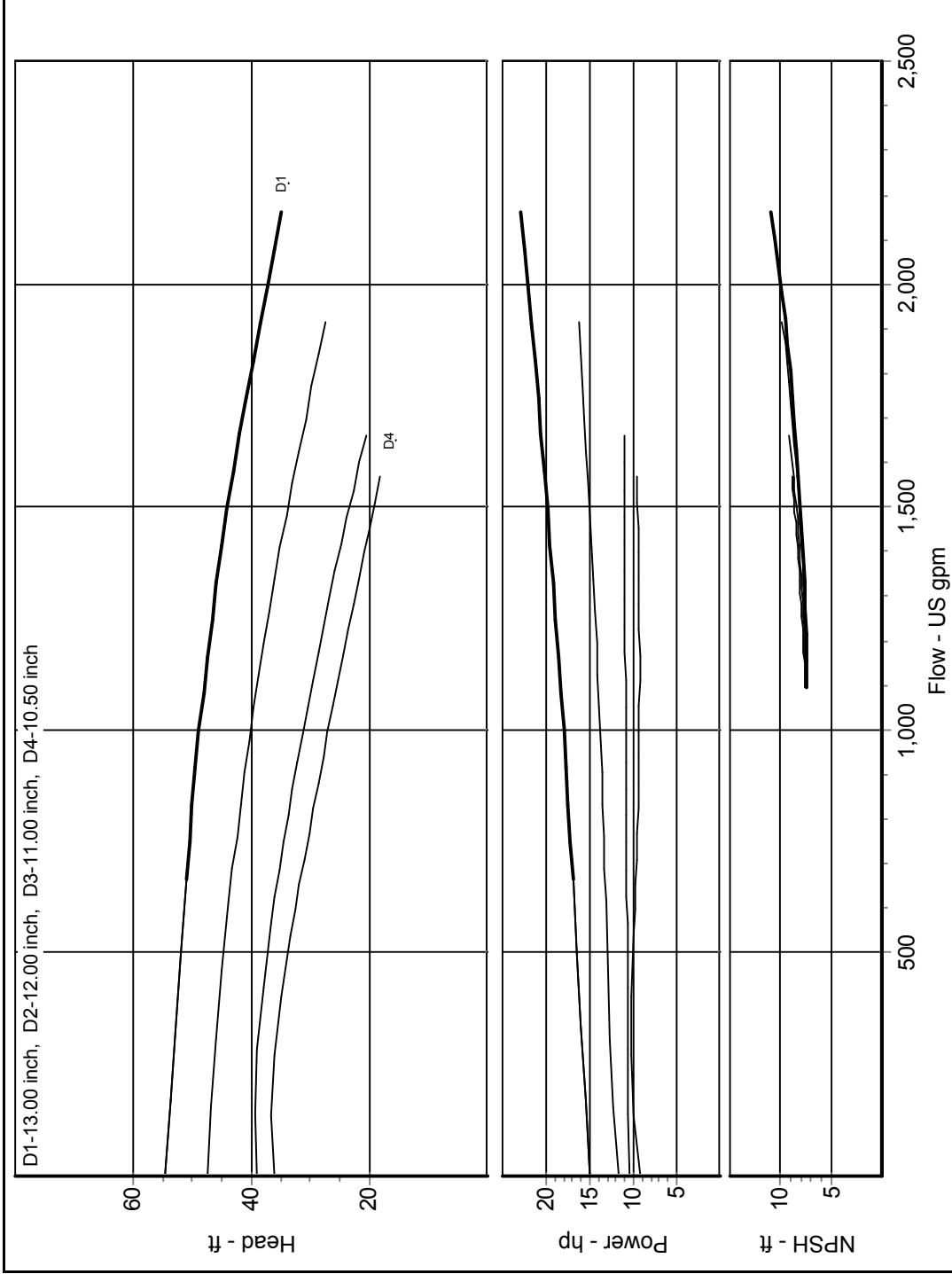
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 \_\_\_\_\_ **Date :** \_\_\_\_\_  
 \_\_\_\_\_ **Page No. :** \_\_\_\_\_ **Fax :** \_\_\_\_\_

**Pump Model:** Peerless - 8x10-13 XLTP 8196 **Nom. Speed:** 960 RPM, 50 Hz Electric **Duty Flow :** US gpm  
**Type:** 8196 - ANSI Standard End Suction **Impeller Dia.:** 13/10.5 inch **Duty Head :** ft  
**Temperature:** 68 °F **Efficiency :** %  
**Viscosity:** 1.009 cP **Power Required :** hp  
**Sp. Gravity:** 1.000 **NPSH Required :** ft  
**Fluid:** Water **Peak Power:** 22.95 hp  
**Curve No.:** 8196-50hz046 **Closed Valve Pressure** 54.769 ft

**Item :** 1  
**Your Ref.:** \_\_\_\_\_ **Tolerance :** Hyd Inst-Peerless Std



**Comments:**  
 Performance curve represents typical performance.

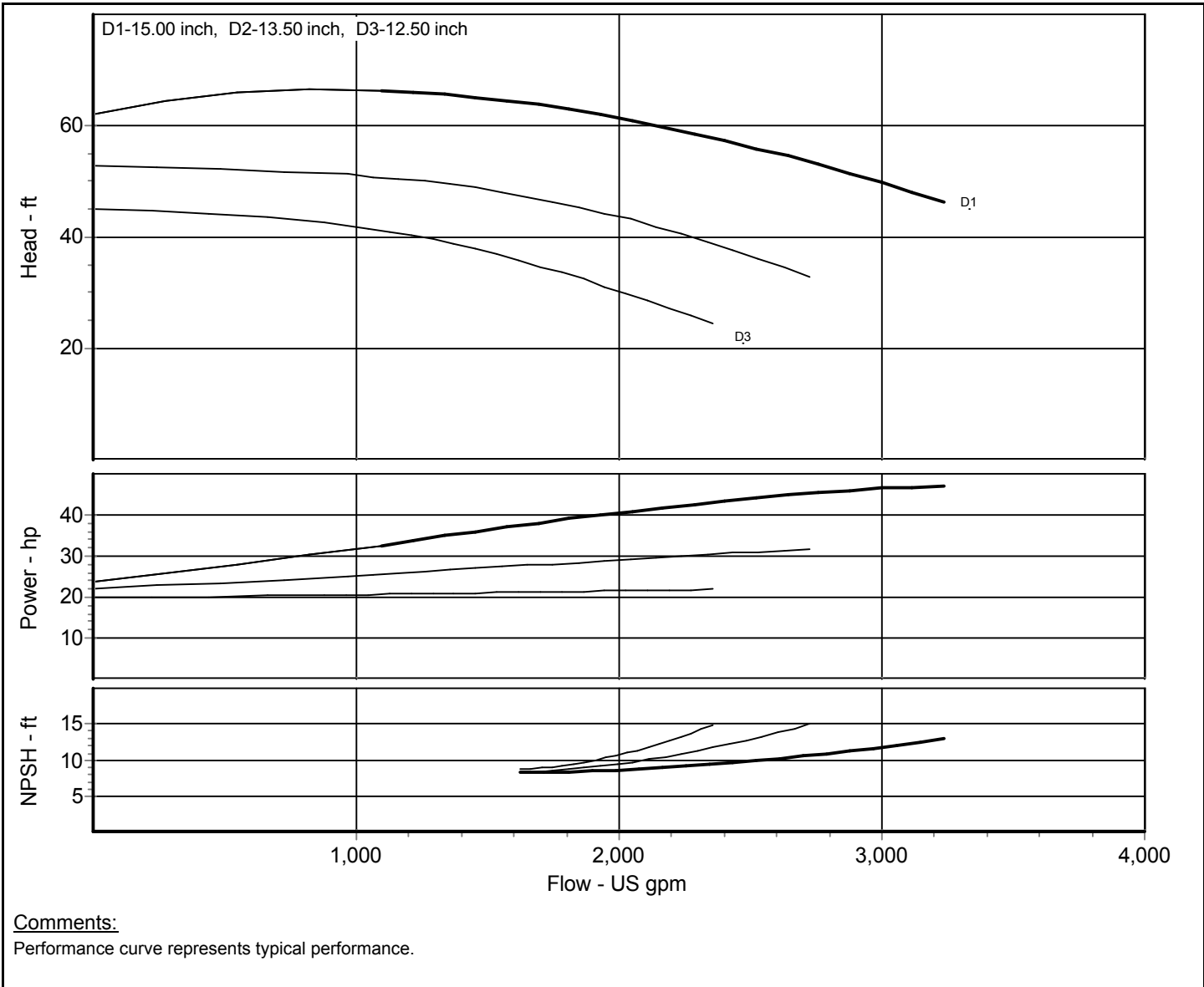


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 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: <b>Peerless - 8x10-15 XLTP 8196</b>	Nom. Speed: <b>960</b> RPM, 50 Hz Electric	Duty Flow :	US gpm
Type: <b>8196 - ANSI Standard End Suction</b>	Impeller Dia.: <b>15/12.5</b> inch	Duty Head :	ft
	Temperature: <b>68</b> °F	Efficiency :	%
	Viscosity: <b>1.009</b> cP	Power Required :	hp
Curve No.: <b>8196-50hz049</b>	Sp. Gravity: <b>1.000</b>	NPSH Required :	ft
Impeller No.	Fluid: <b>Water</b>	Peak Power:	<b>47.09</b> hp
Item : <b>1</b>		Closed Valve Pressure	<b>62.217</b> ft
Your Ref.:	Tolerance : <b>Hyd Inst-Peerless Std</b>		



Comments:  
 Performance curve represents typical performance.

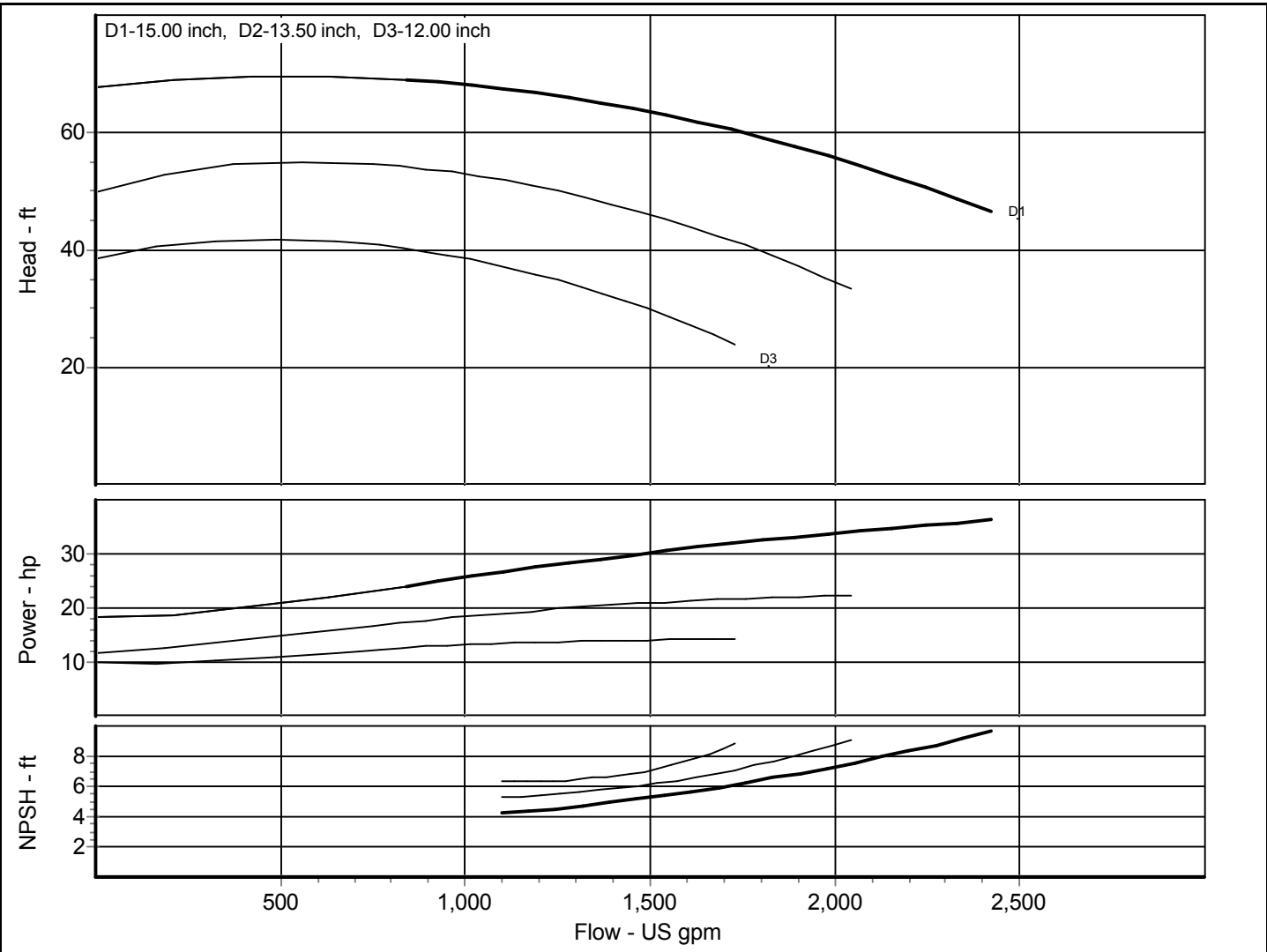


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Project : Contact :  
 Quote No. : Page No. : Phone : Fax :  
 Date :

Pump Model: **Peerless - 8x10-15G XLTP 8196** Nom. Speed: **960** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **15/12** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **36.25** hp  
 Fluid: **Water** Closed Valve Pressure **67.709** ft  
 Curve No.: **8196-50hz052**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.



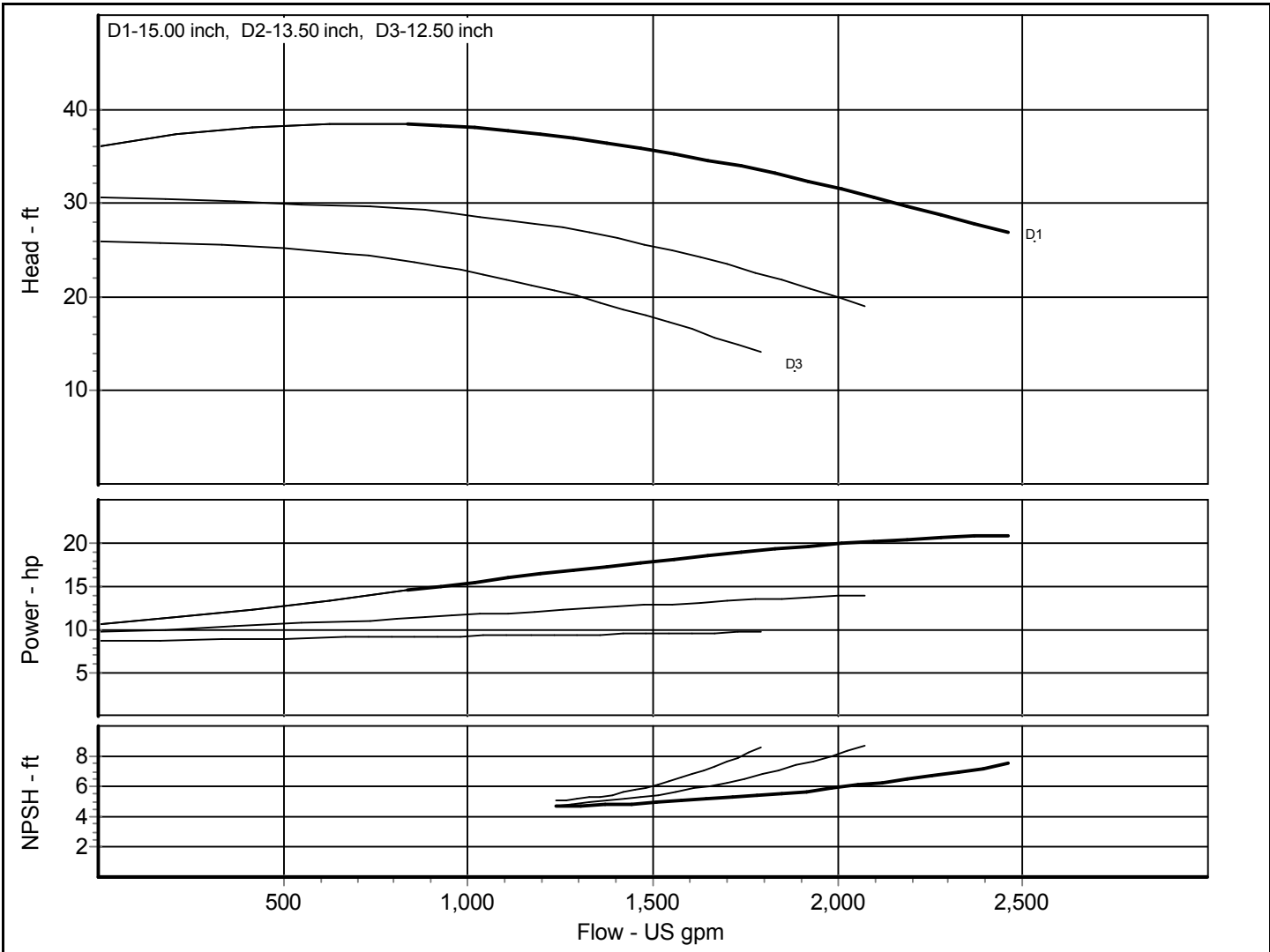


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Project : Contact :  
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 Date :

Pump Model: **Peerless - 8x10-15 XLTP 8196** Nom. Speed: **730** RPM, 50 Hz Electric Duty Flow : US gpm  
 Type: **8196 - ANSI Standard End Suction** Impeller Dia.: **15/12.5** inch Duty Head : ft  
 Efficiency : %  
 Temperature: **68** °F Power Required : hp  
 Viscosity: **1.009** cP NPSH Required : ft  
 Sp. Gravity: **1.000** Peak Power: **20.92** hp  
 Fluid: **Water** Closed Valve Pressure **35.976** ft  
 Curve No.: **8196-50hz050**  
 Impeller No.  
 Item : **1**  
 Your Ref.: Tolerance : **Hyd Inst-Peerless Std**



Comments:  
 Performance curve represents typical performance.