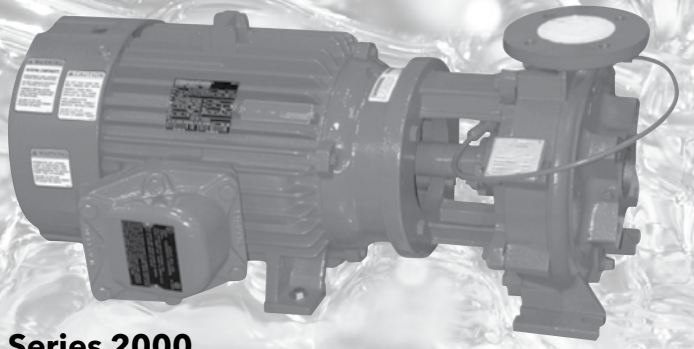
CURVES
CAC200050 R1



Series 2000
Closed Coupled

Series 2000
Frame Mounted

Series A-C 2000 50 Hz

CLOSED COUPLED & FRAME MOUNTED CENTRIFUGAL PUMP PERFORMANCE CURVES

GOULDS
WATER TECHNOLOGY
a xylem brand

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2.5 x 2 x 9L 9
3 x 2 x 6.5S 9
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1450 RPM – 50 HZ PUMP CURVES

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3 x 2 x 6.5S 16
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3 x 2 x 9 17
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3 x 2.5 x 9 19
3 x 2.5 x 11 19
3 x 2.5 x 13 20
4 x 3 x 6.5 20
4 x 3 x 9 21
4 x 3 x 11 21
4 x 3 x 13 22
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6 x 6 x 9.5 24
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6 x 6 x 13S 25
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8 x 6 x 9.5 26
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USEFUL PUMP FORMULAS

Pressure (PSI) = $\frac{\text{Head (feet) x Specific Gravity}}{2.31}$

Head (feet) = $\frac{\text{Pressure (PSI) x 2.31}}{\text{Specific Gravity}}$

Vacuum (in. of mercury) = Dynamic Suction Lift (feet) x .883 x Specific Gravity

Horsepower (brake) = $\frac{\text{GPM x Head (feet) x Specific Gravity}}{\text{3960 x Pump Effieciency}}$

Horsepower (water) = $\frac{\text{GPM x Head (feet) x Specific Gravity}}{3960}$

Efficiency (pump) = $\frac{\text{Horsepower (water)}}{\text{Horsepower (brake)}}$ x 100 per cent

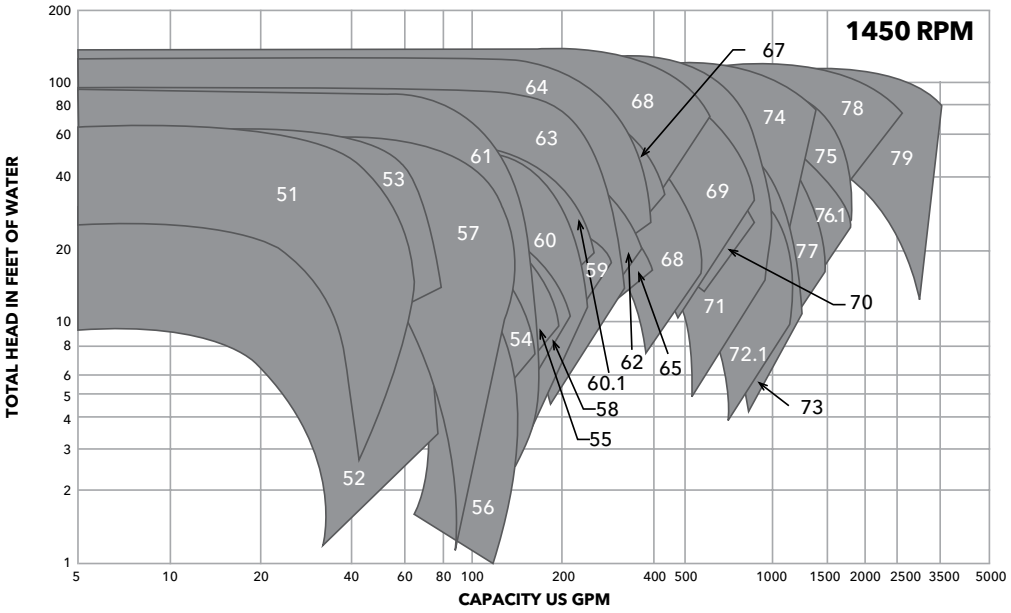
NPSH (available) = Positive Factors – Negative Factors

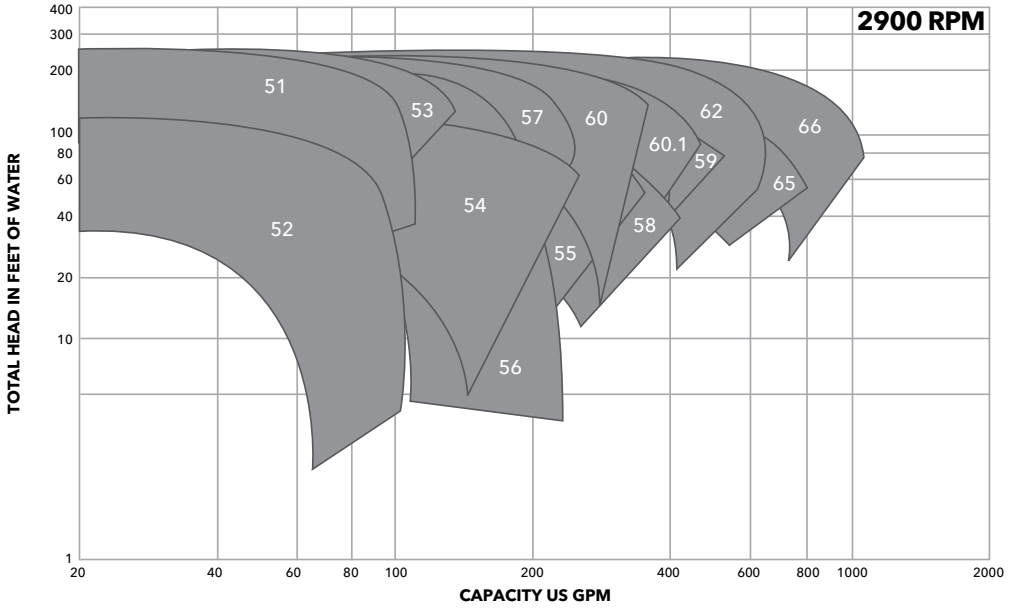
AFFINITY LAWS: Effect of change of speed or impeller diameter on centrifugal pumps

	GPM Capacity	Feet Head	BHP
Impeller Diameter Change	$Q_2 = \frac{D_2}{D_1} Q_1$	$H_2 = \left(\frac{D_2}{D_1}\right)^2 H_1$	$P_2 = \left(\frac{D_2}{D_1}\right)^3 P_1$
Speed Change	$Q_2 = \frac{RPM_2}{RPM_1} Q_1$	$H_2 = \left(\frac{RPM_2}{RPM_1}\right)^2 H_1$	$P_2 = \left(\frac{RPM_2}{RPM_1}\right)^3 P_1$

Where Q = GPM, H = Head, P = BHP, D = Impeller Diameter, RPM = Pump Speed

50 HZ FULL HYDRAULIC RANGE CURVES





1450 RPM SELECTION CHART

Key No.	Pump Size and Type
51	1.5x1.5x9
52	2x1.5x6.5
53	2x1.5x9
54	2.5x2x6.5L
55	2.5x2x6.5S
56	2.5x2x9L
57	2.5x2x9S
58	3x2x6.5L
59	3x2x6.5S
60	3x2x9
60.1	3x2x10
61	3x2x11
62	3x2.5x9
63	3x2.5x11
64	3x2.5x13

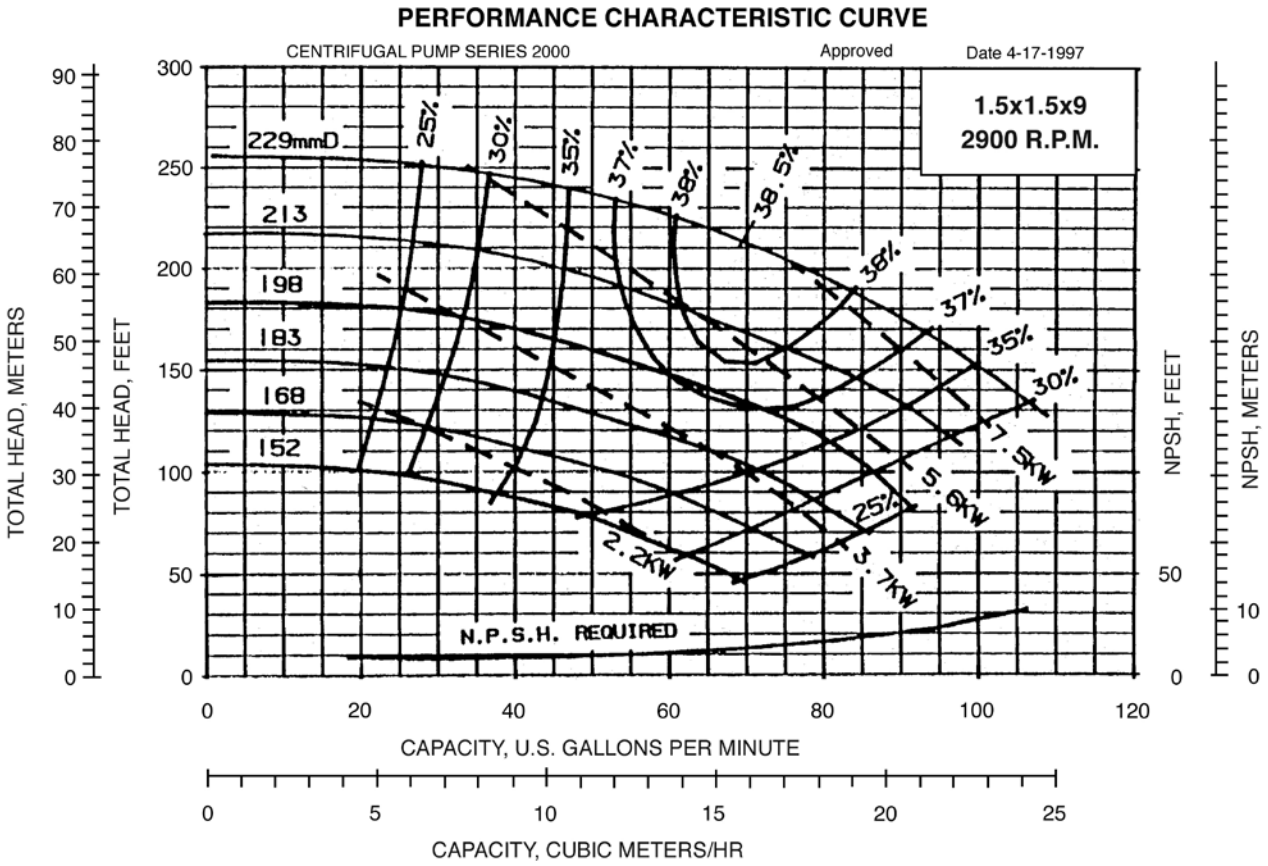
Key No.	Pump Size and Type
65	4x3x6.5
66	4x3x9
67	4x3x11
68	4x3x13
69	4x4x11
70	6x4x9
71	6x4x13
72.1	6x6x9.5
73	6x6x11
74	6x6x13S
75	6x6x13L
76.1	8x6x9.5
77	8x6x11
78	8x6x13
79	10x8x13

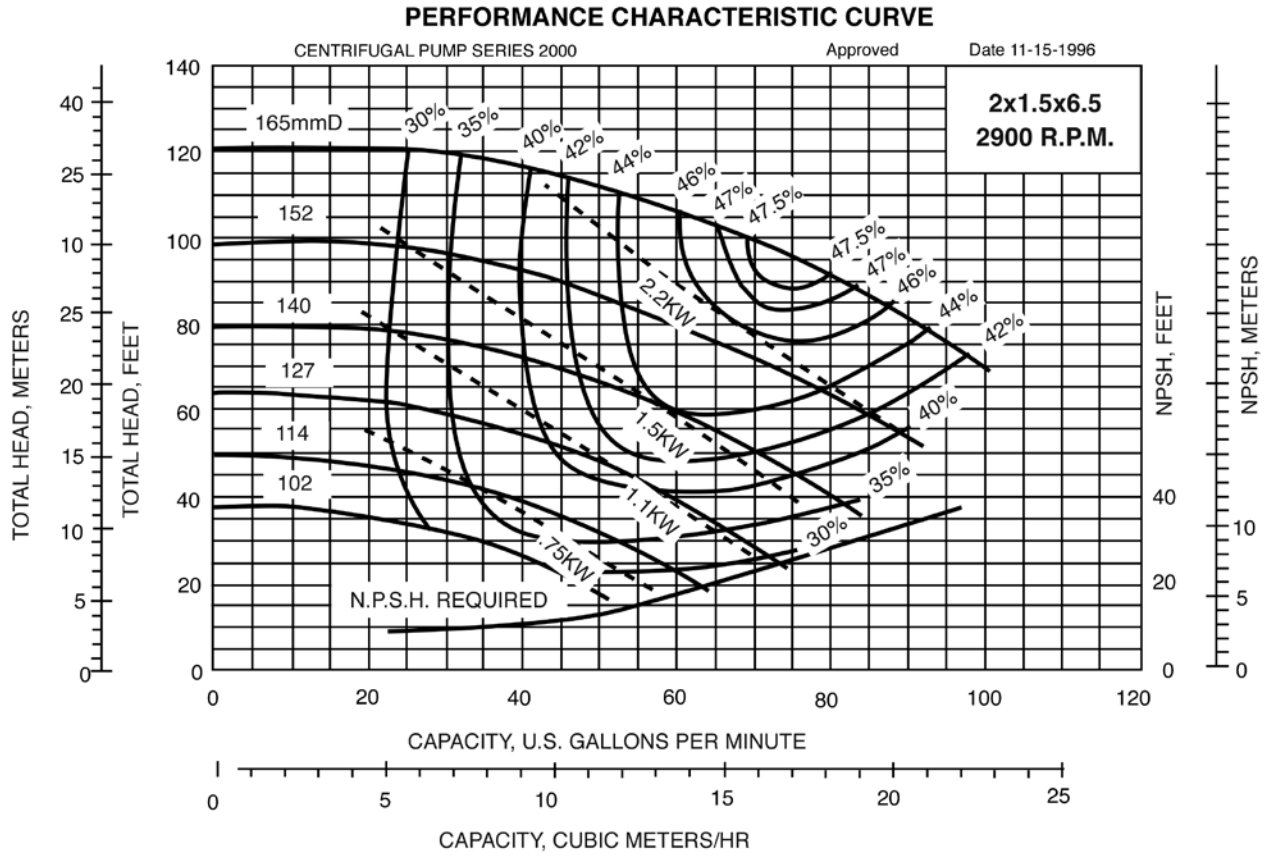
2900 RPM SELECTION CHART

Key No.	Pump Size and Type
51	1.5x1.5x9
52	2x1.5x6.5
53	2x1.5x9
54	2.5x2x6.5S
55	2.5x2x6.5L
56	2.5x2x9S
57	2.5x2x9L

Key No.	Pump Size and Type
58	3x2x6.5S
59	3x2x6.5L
60	3x2x9
60.1	3x2x10
62	3x2.5x9
65	4x3x6.5
66	4x3x9

2900 RPM – 50 HZ PUMP CURVES





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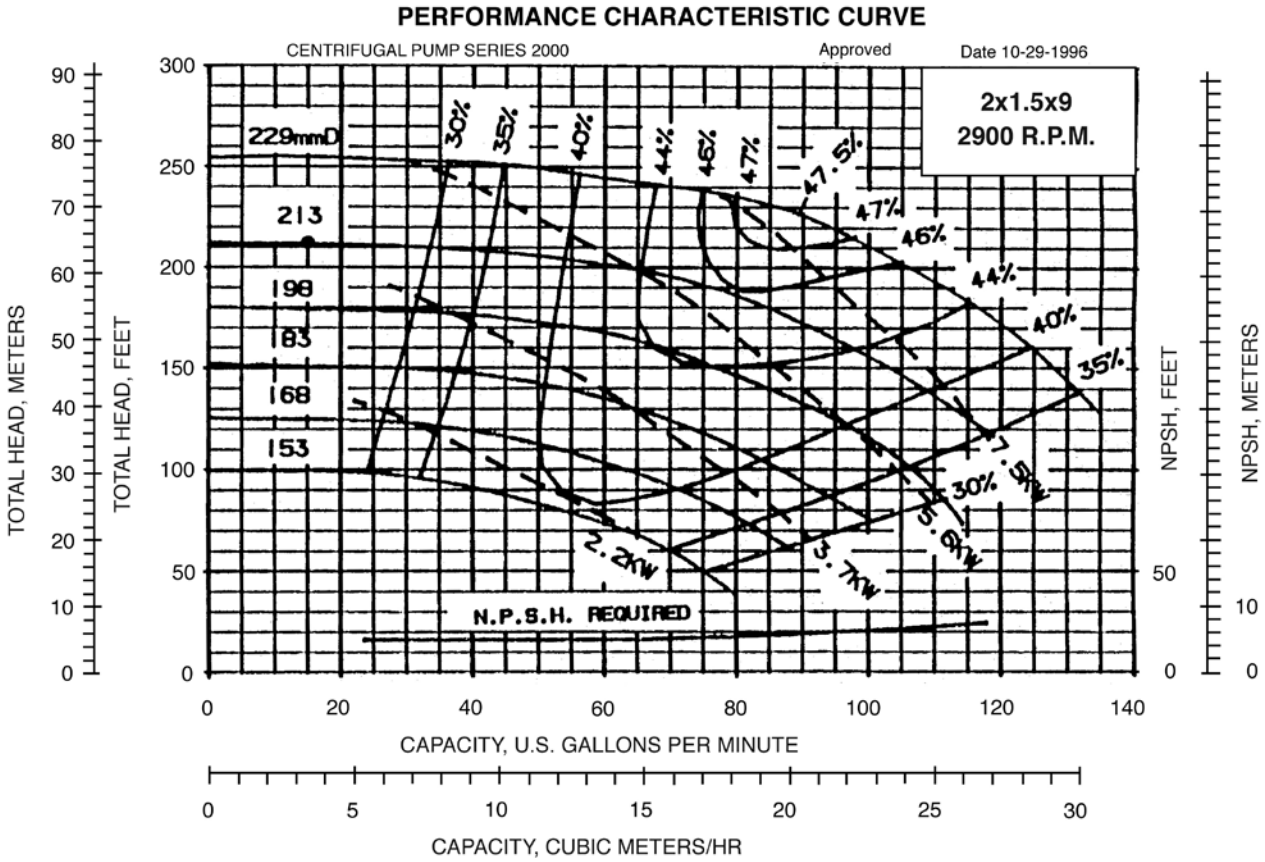

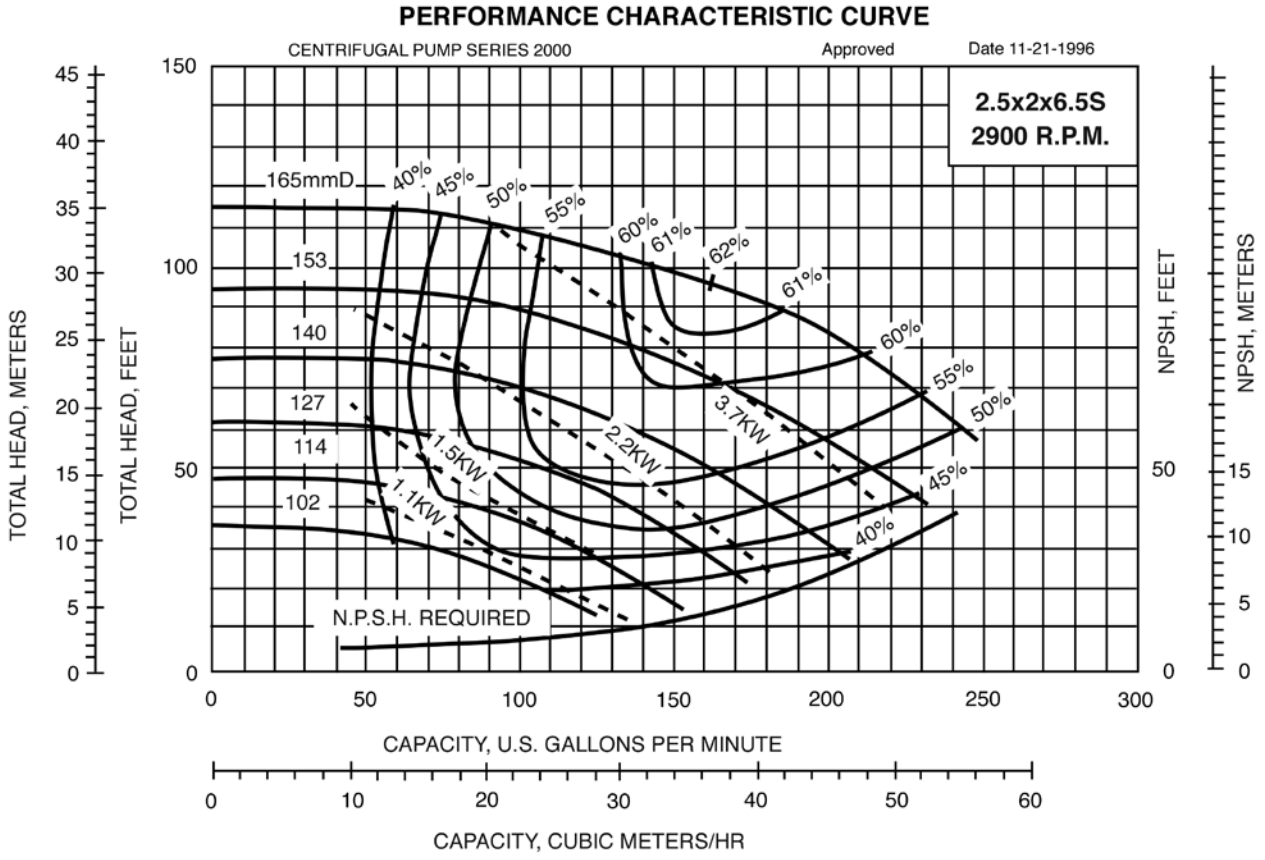

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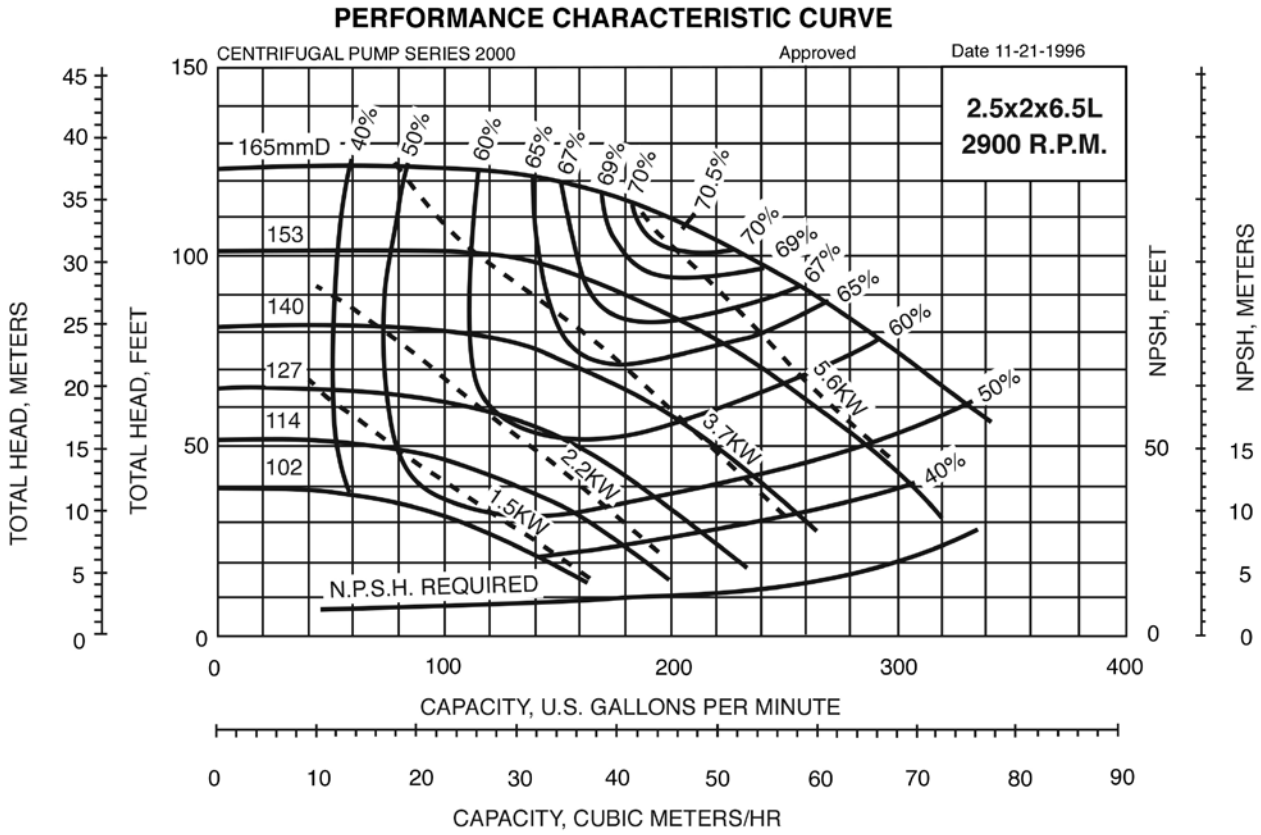

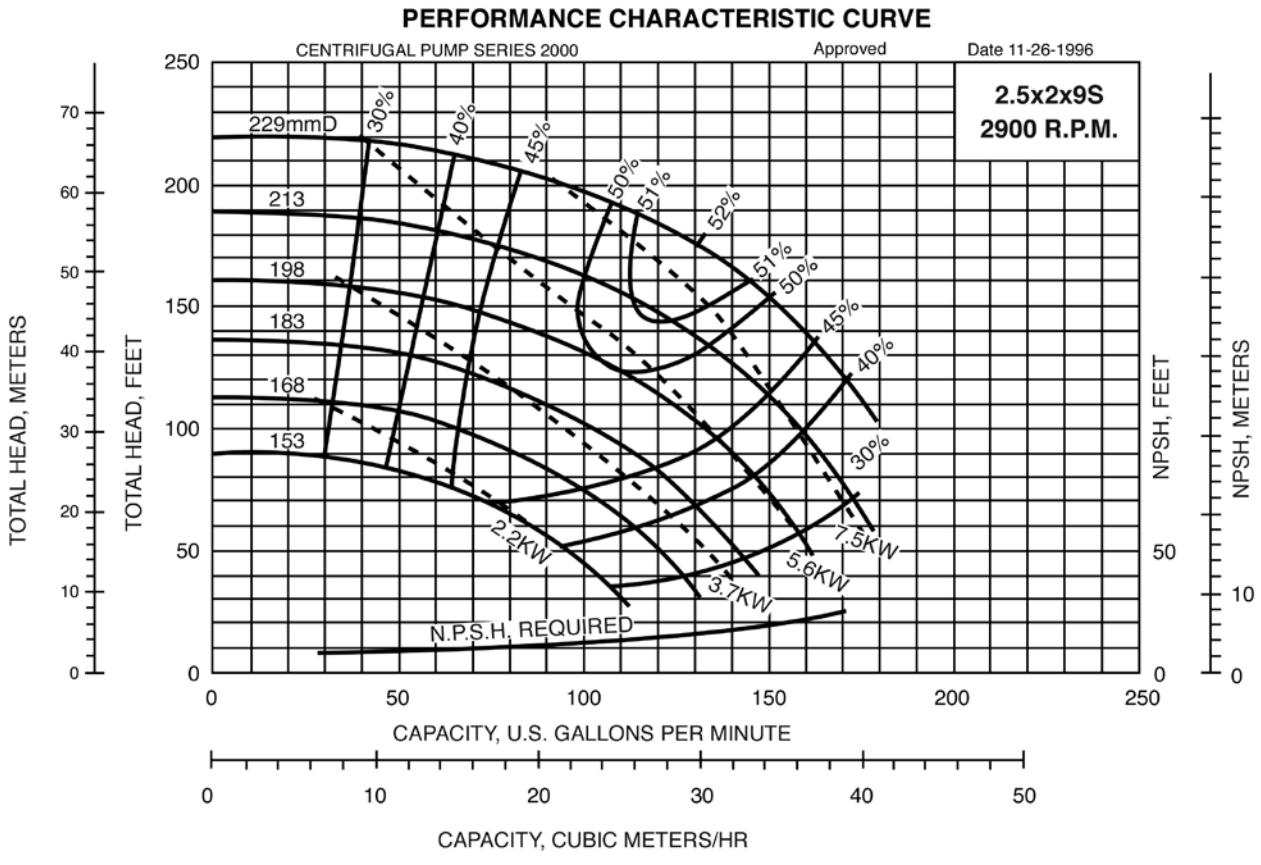

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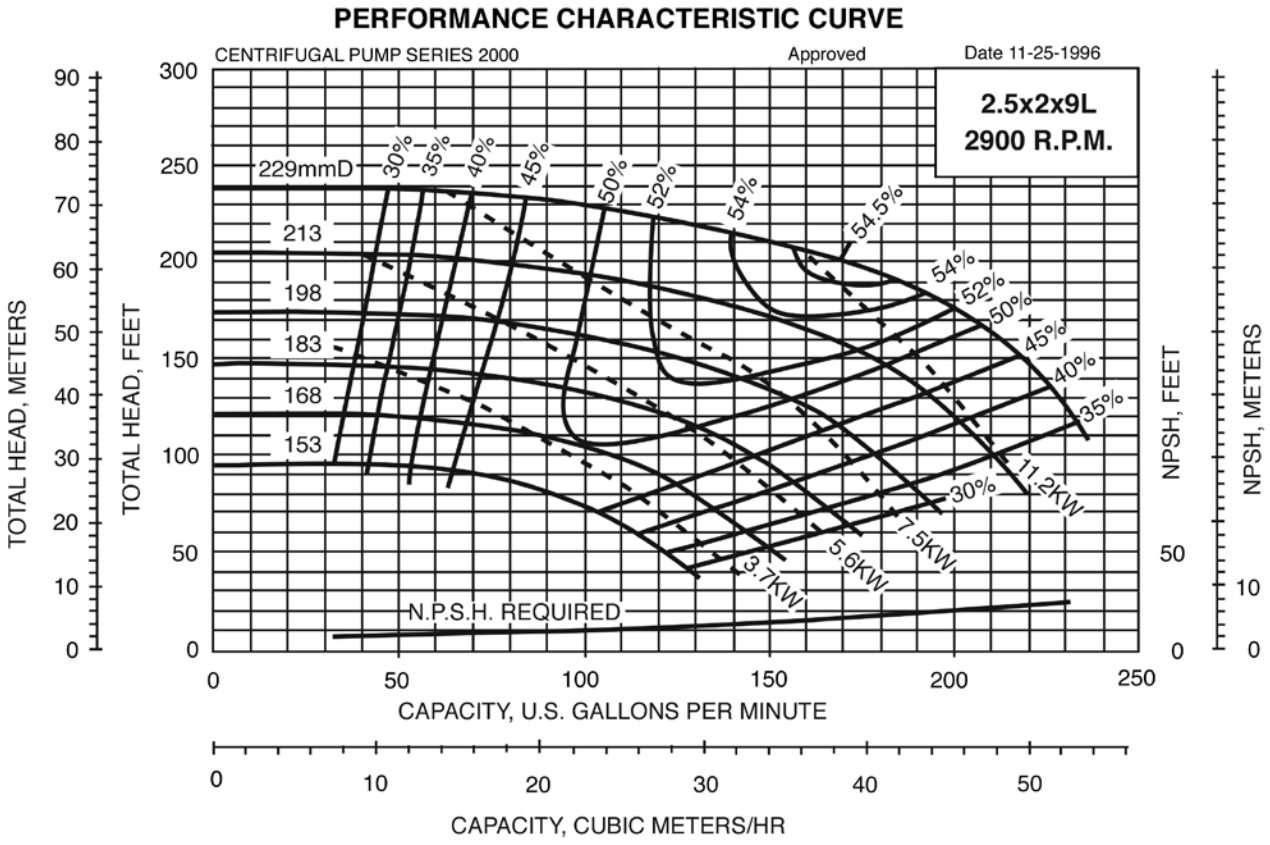

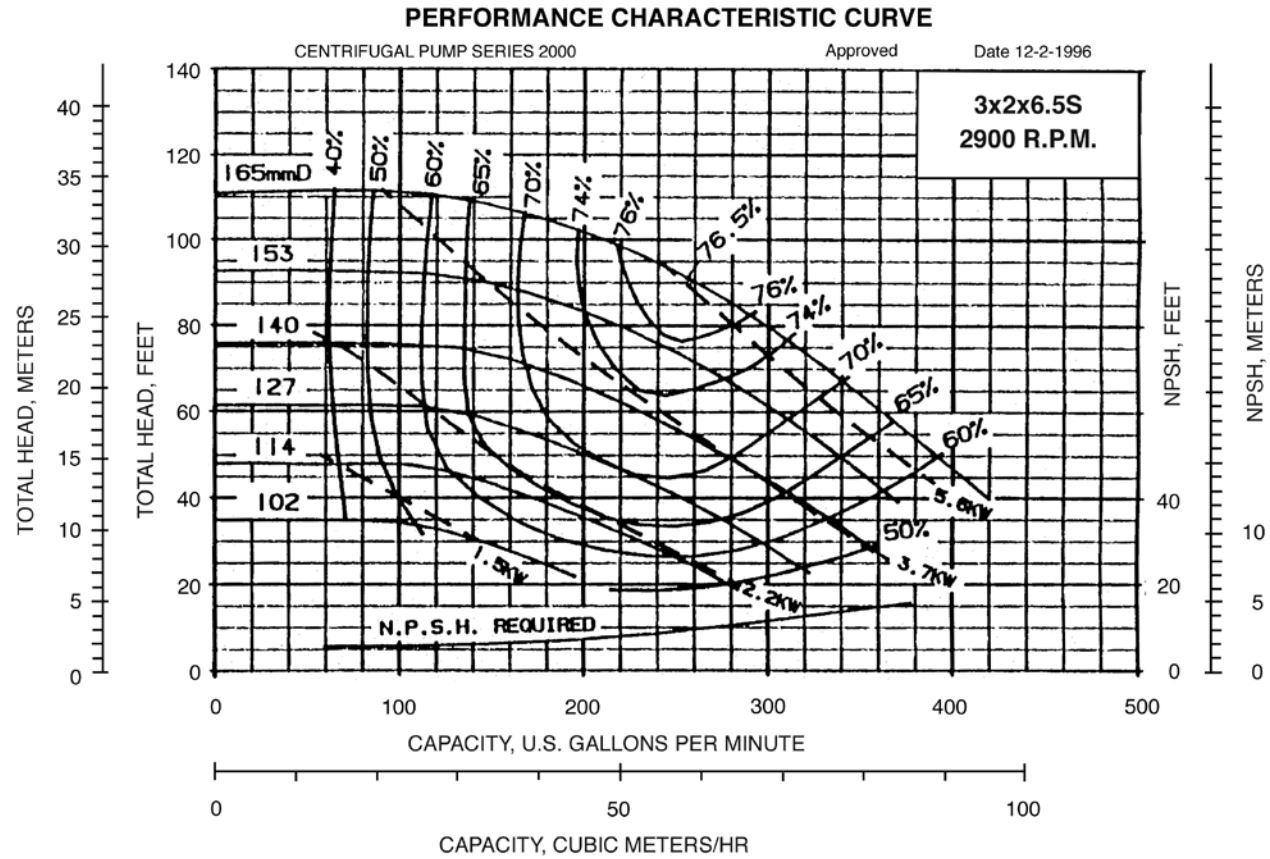

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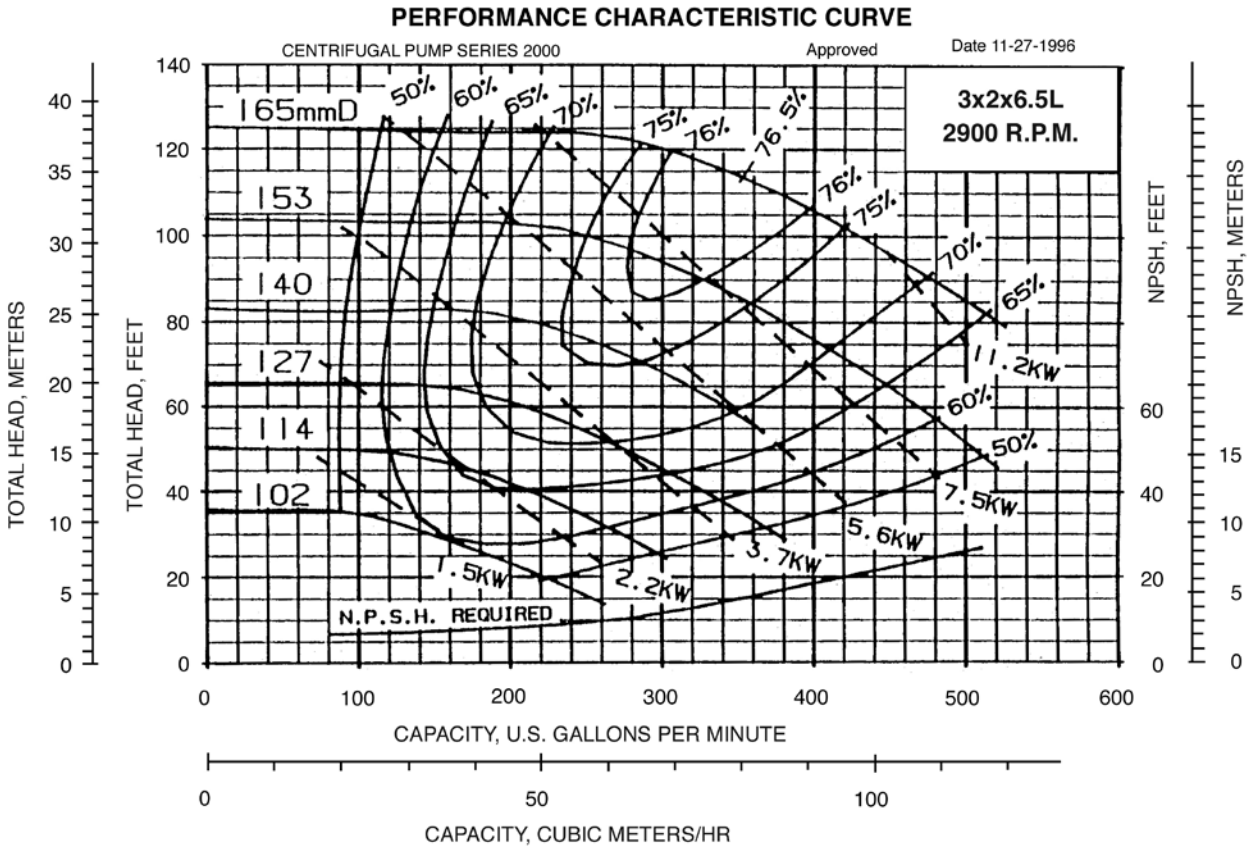

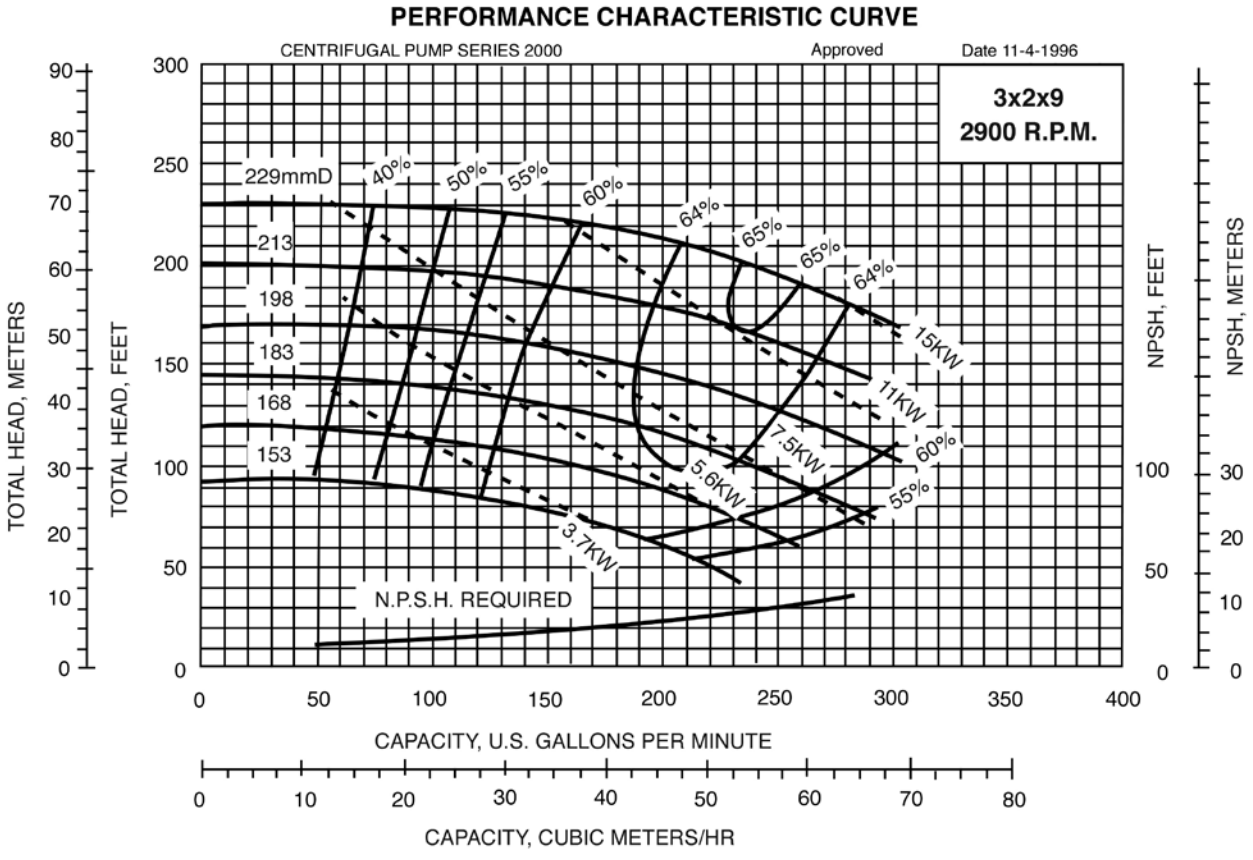

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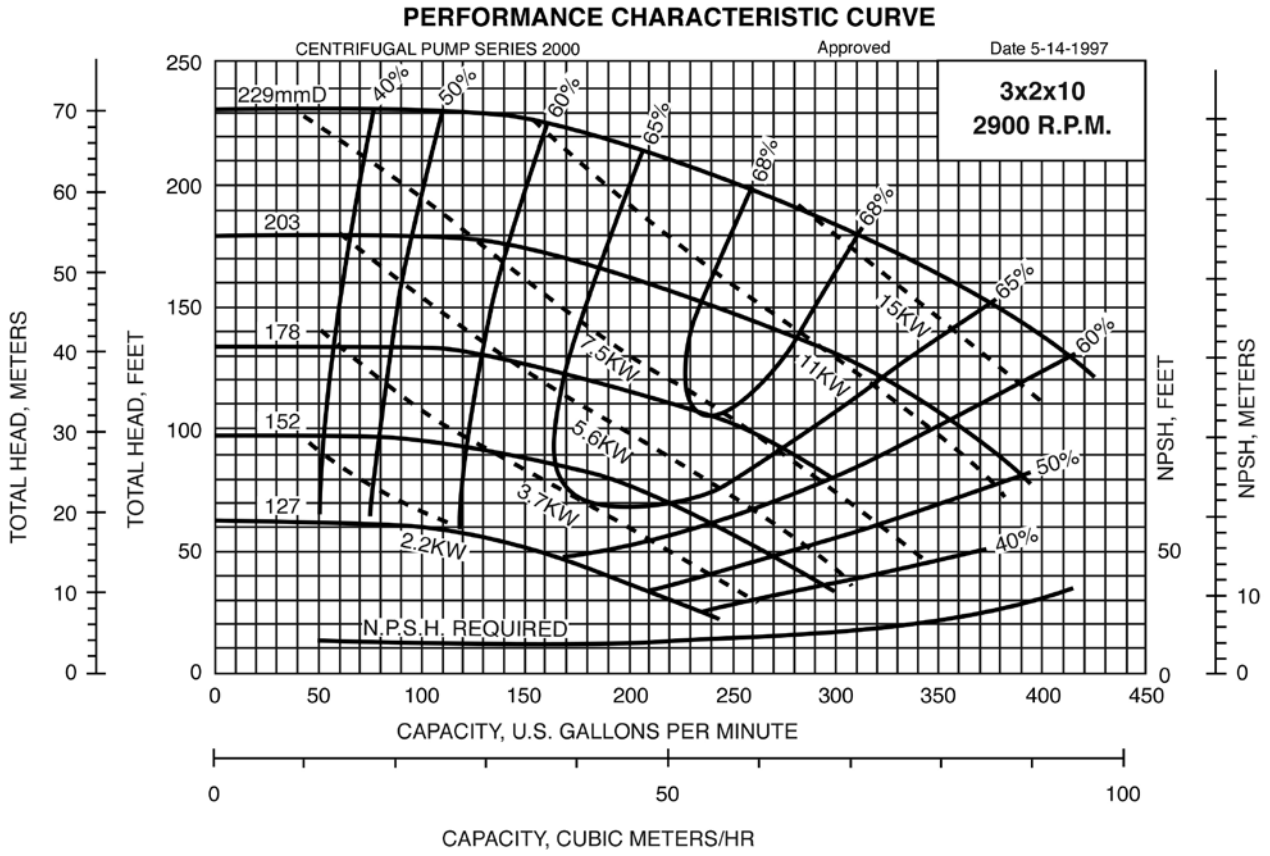

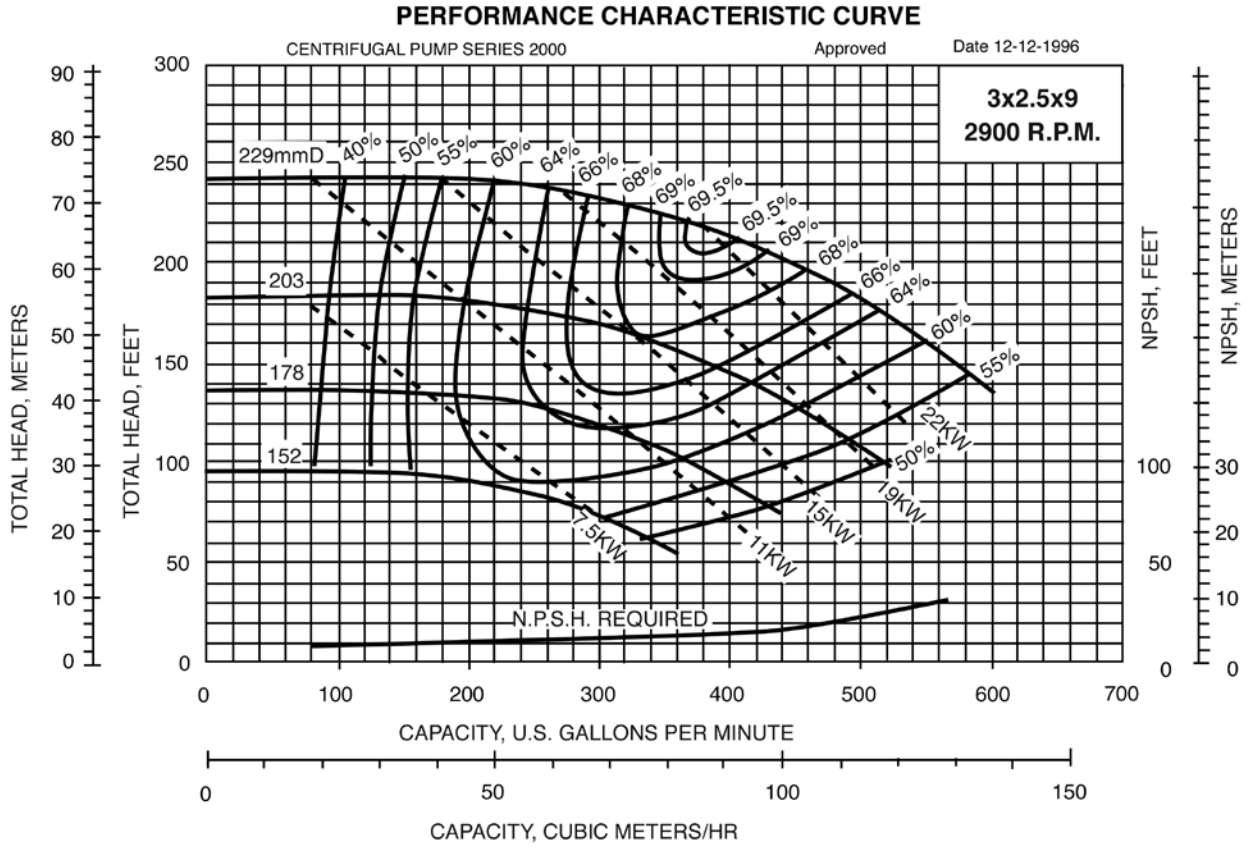

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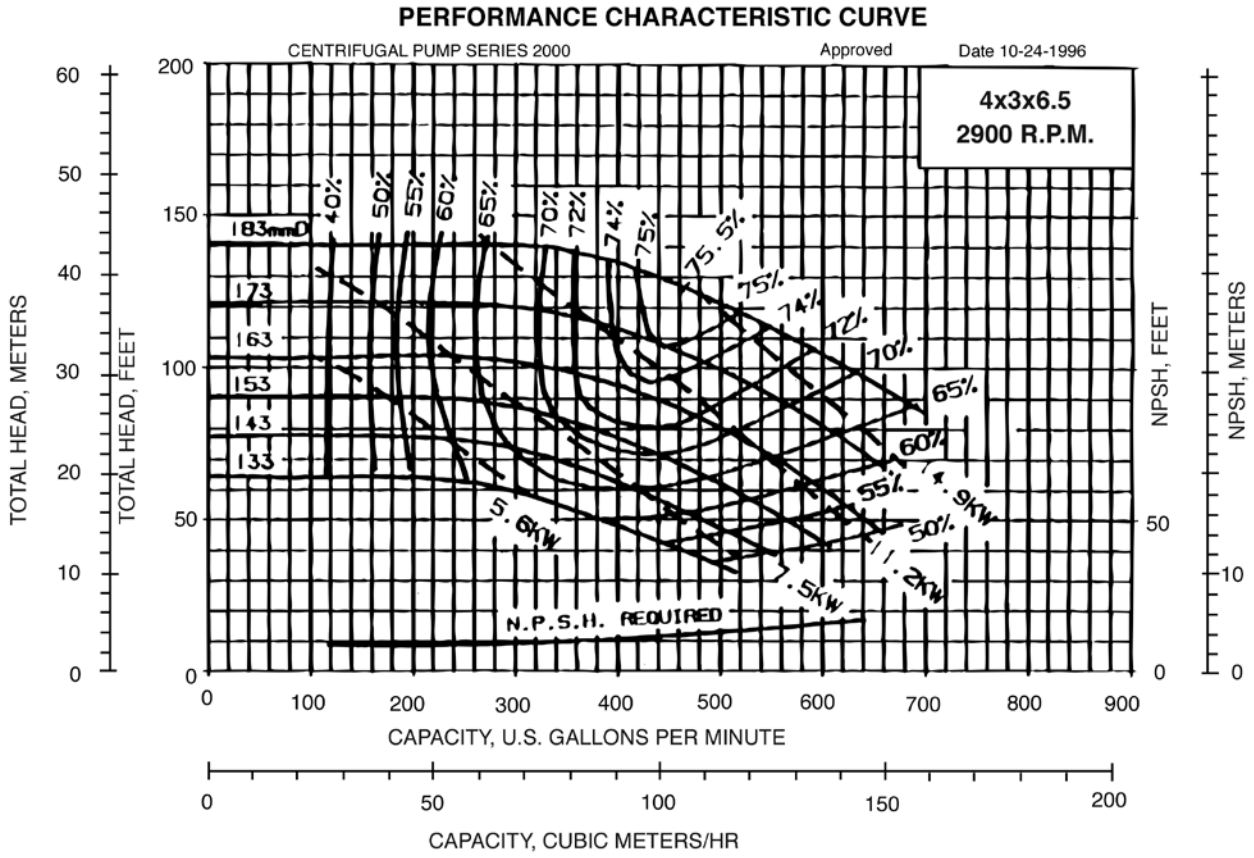

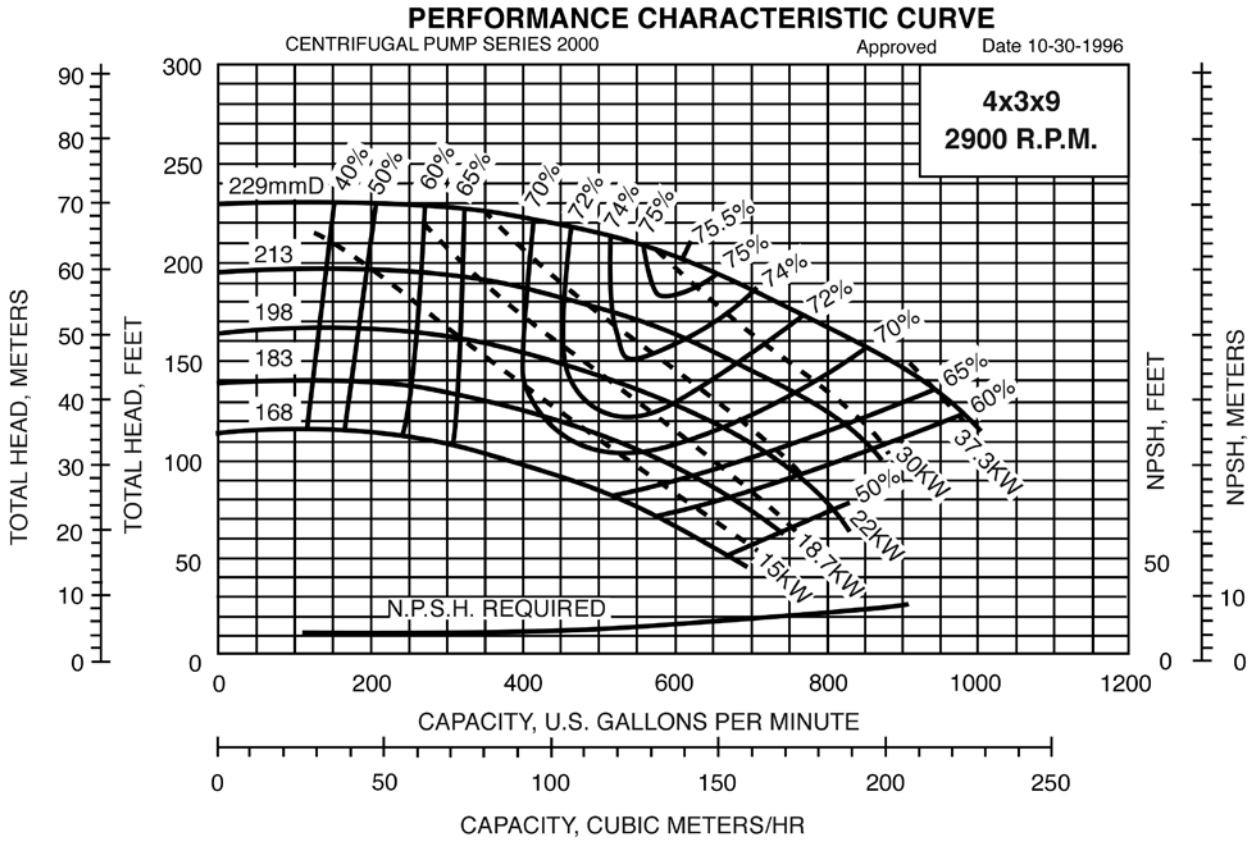

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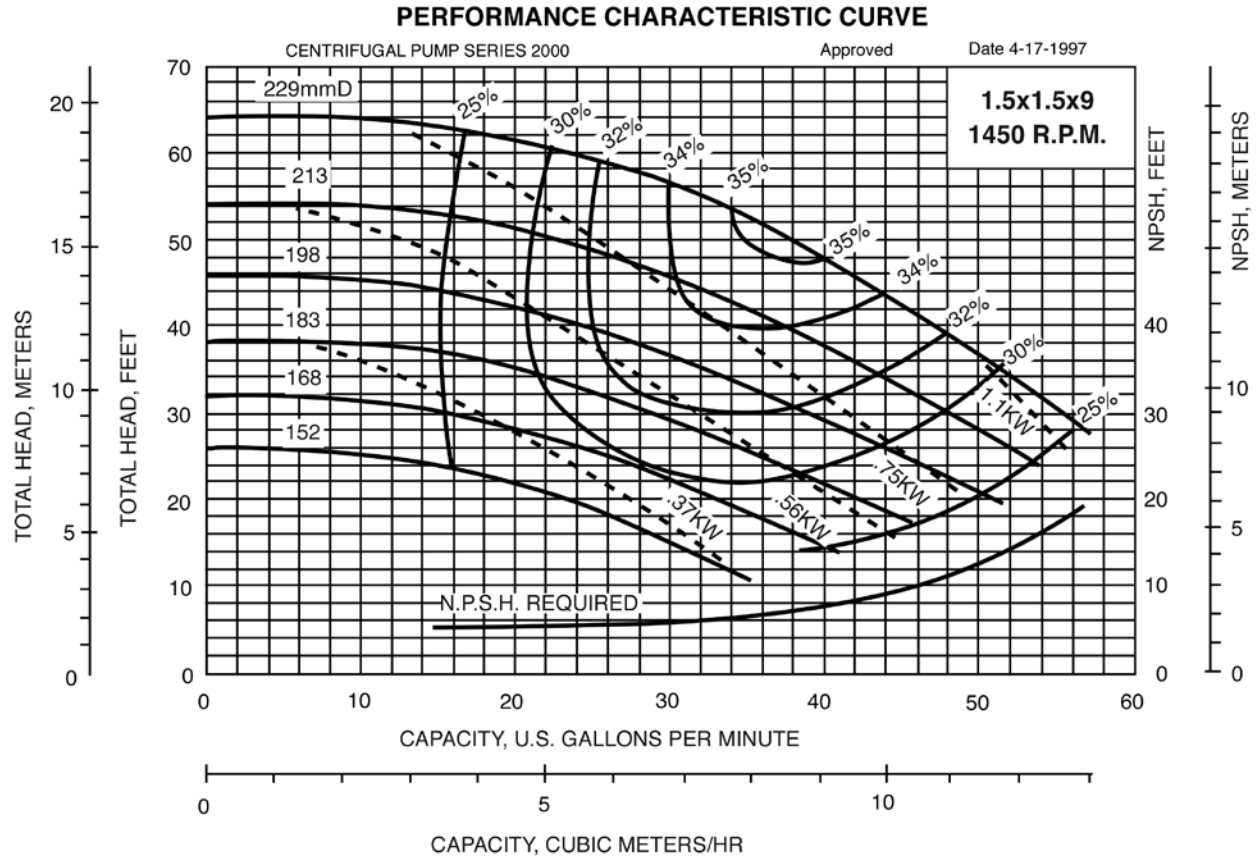

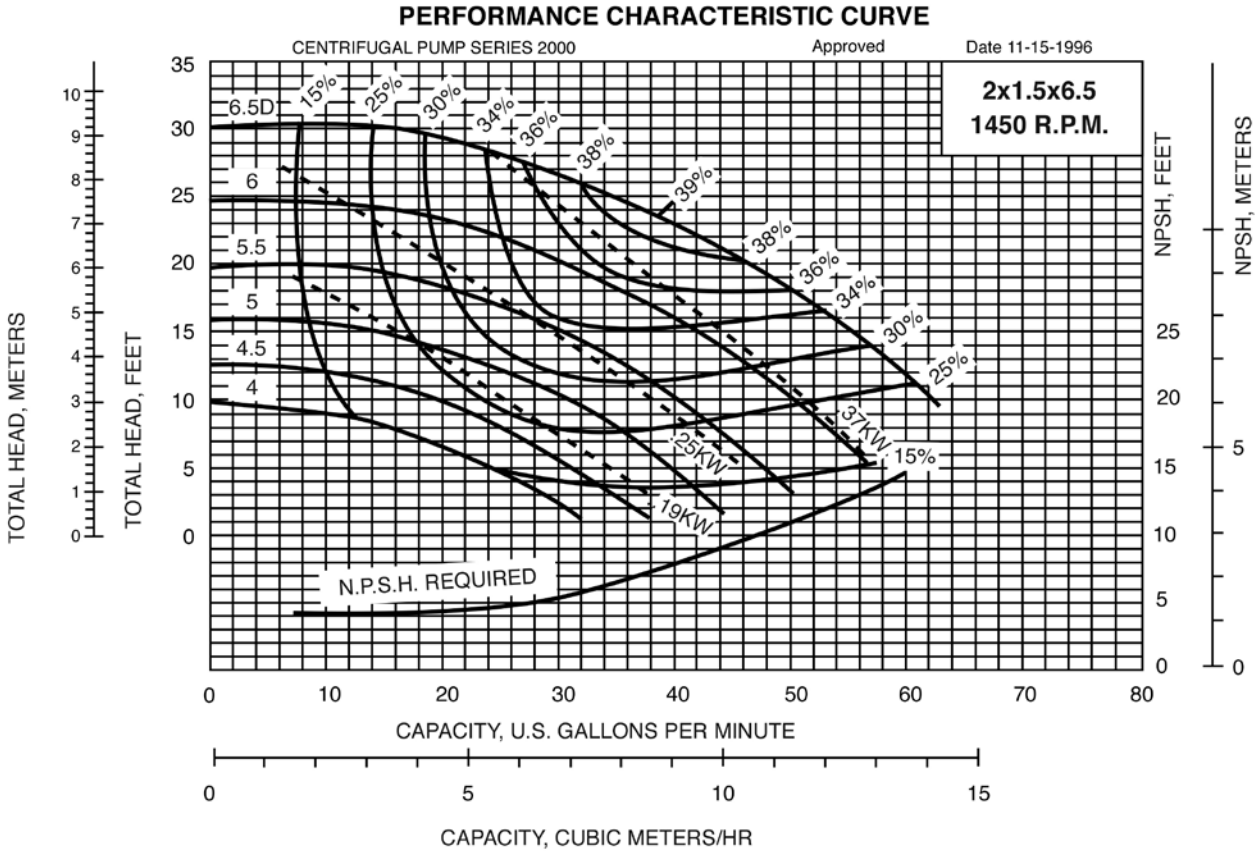

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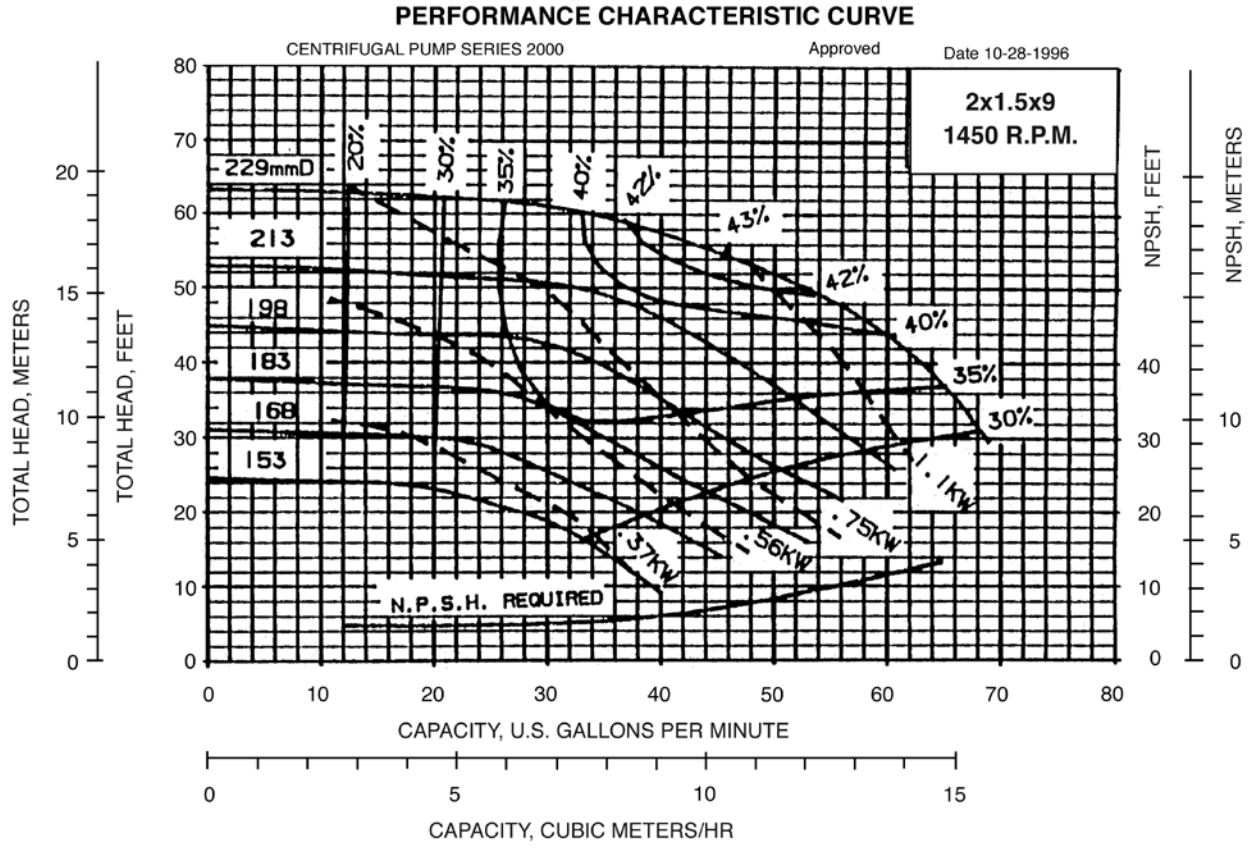

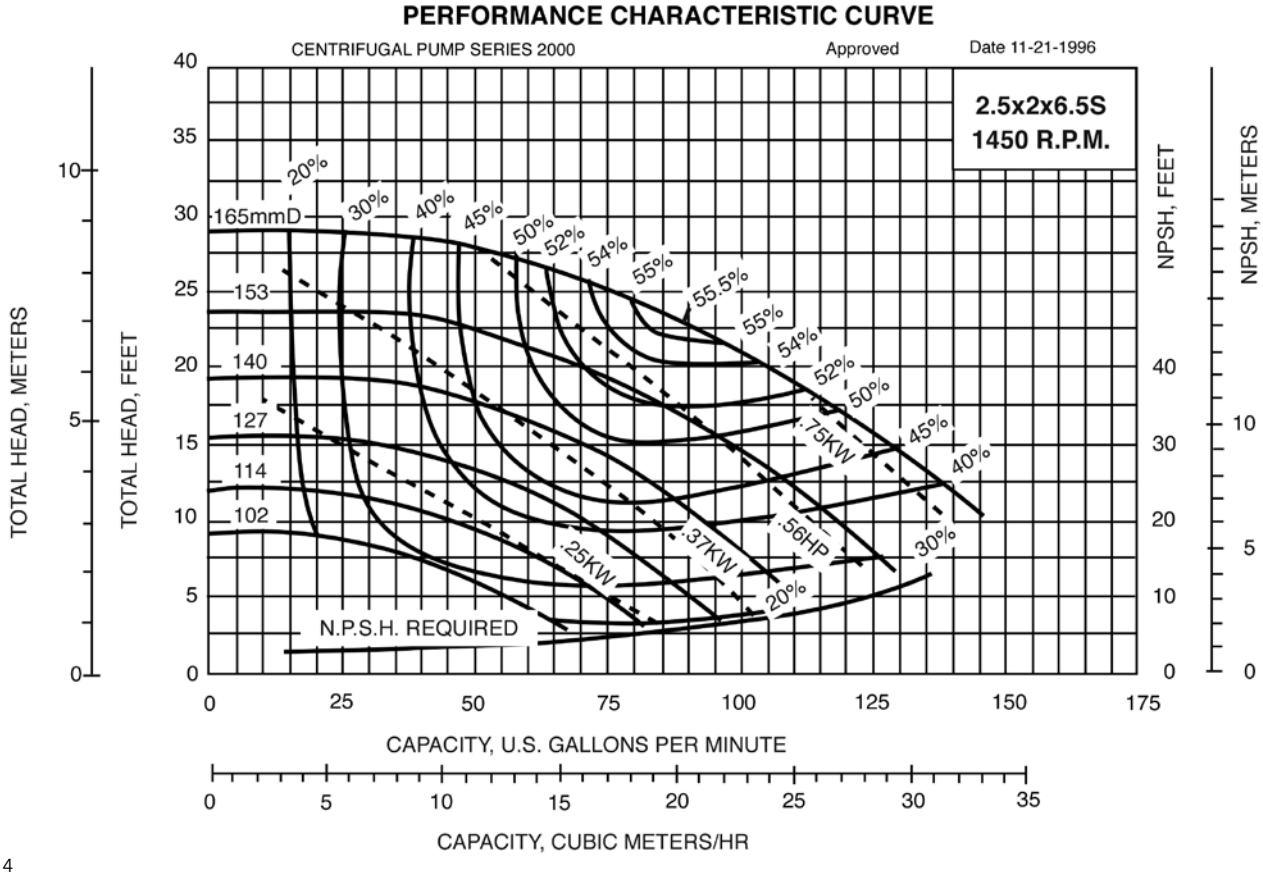

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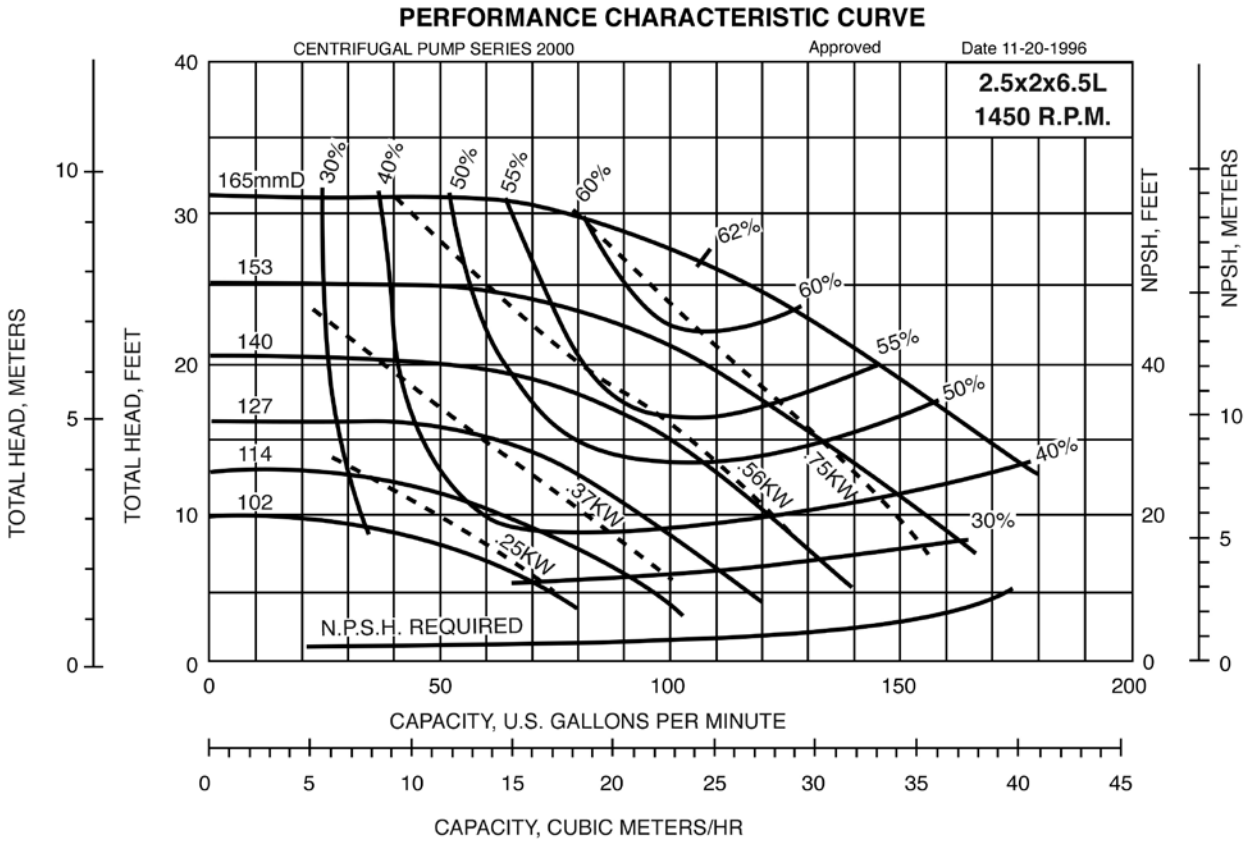

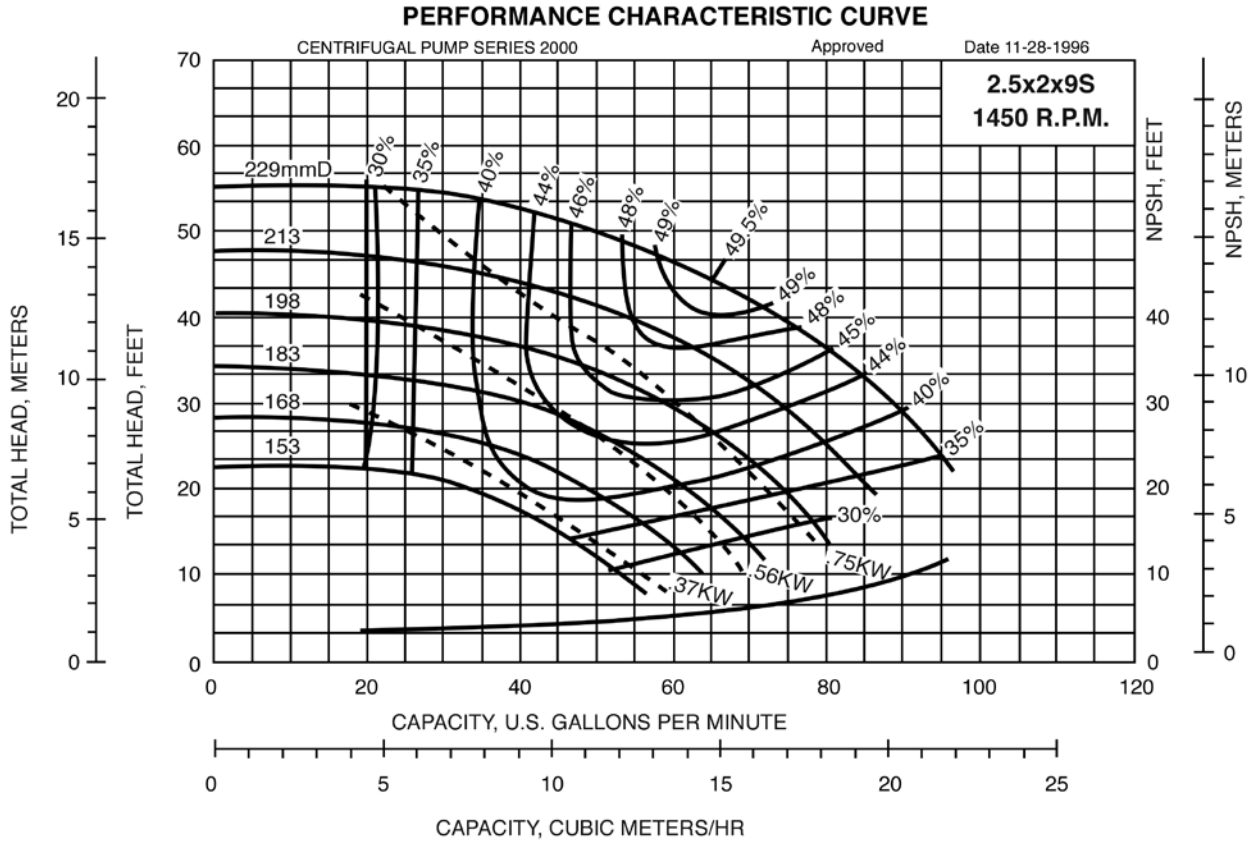

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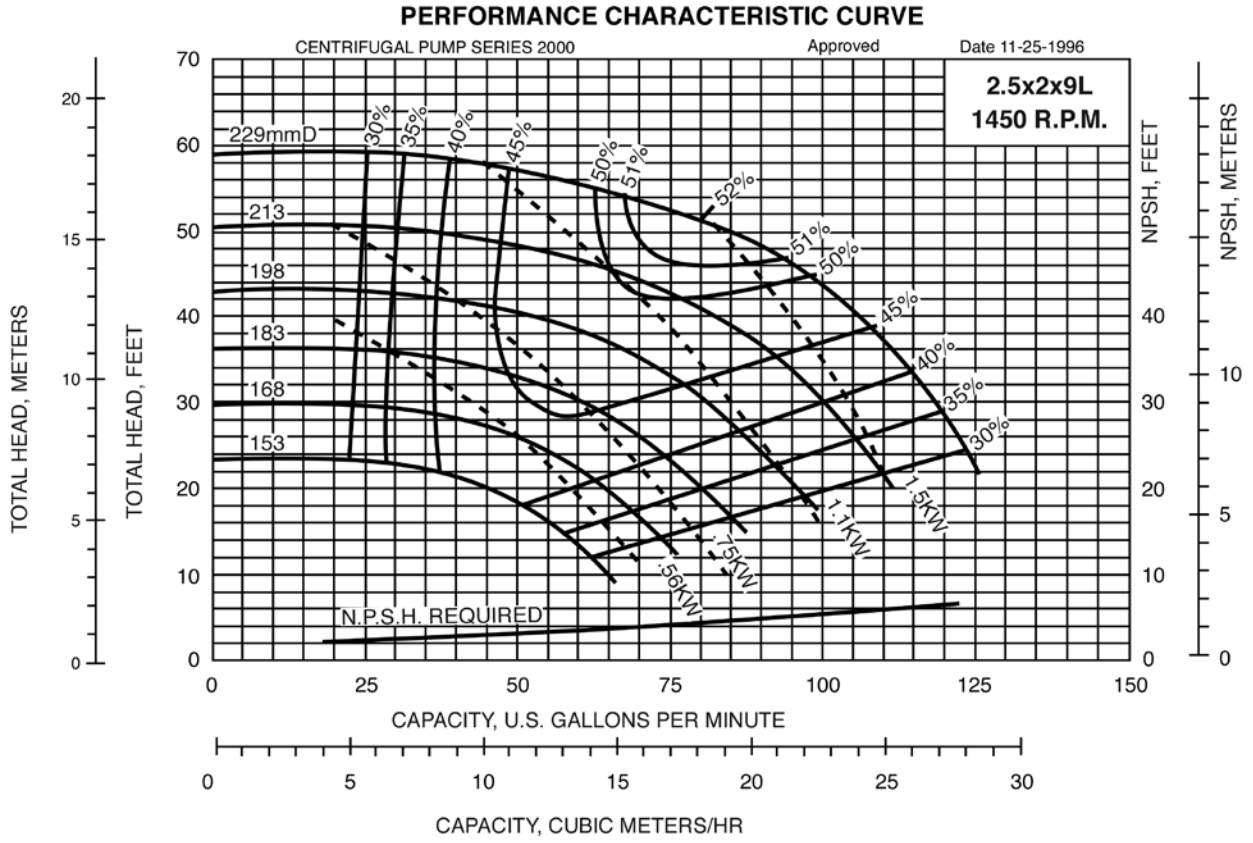

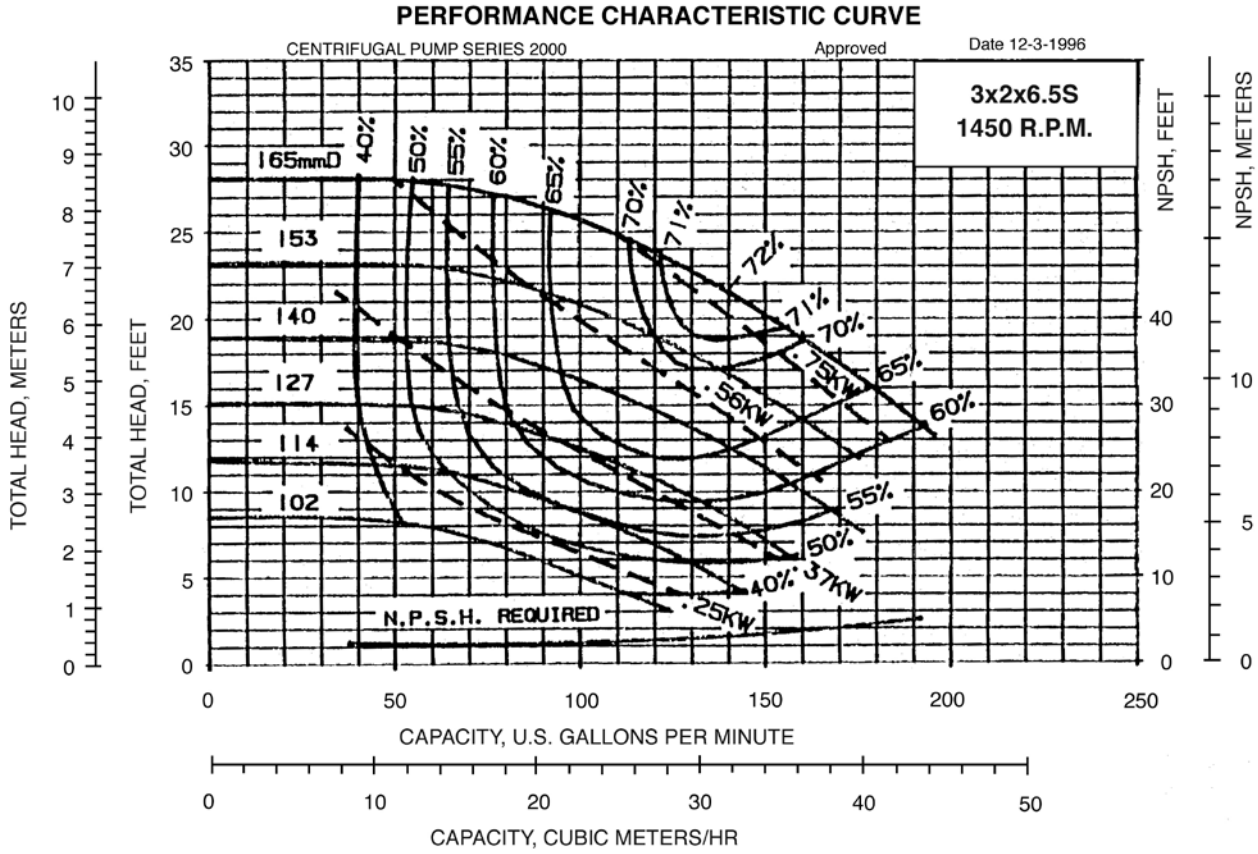

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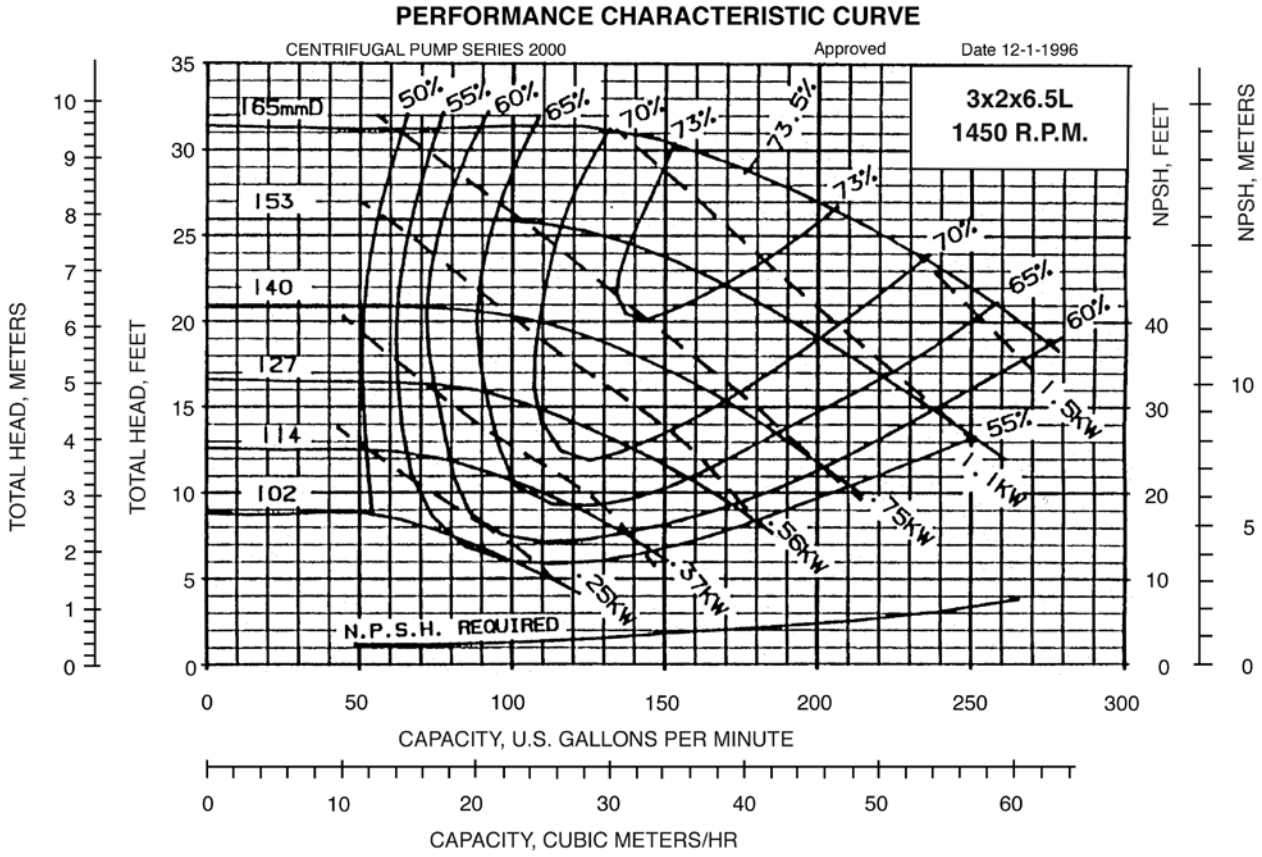

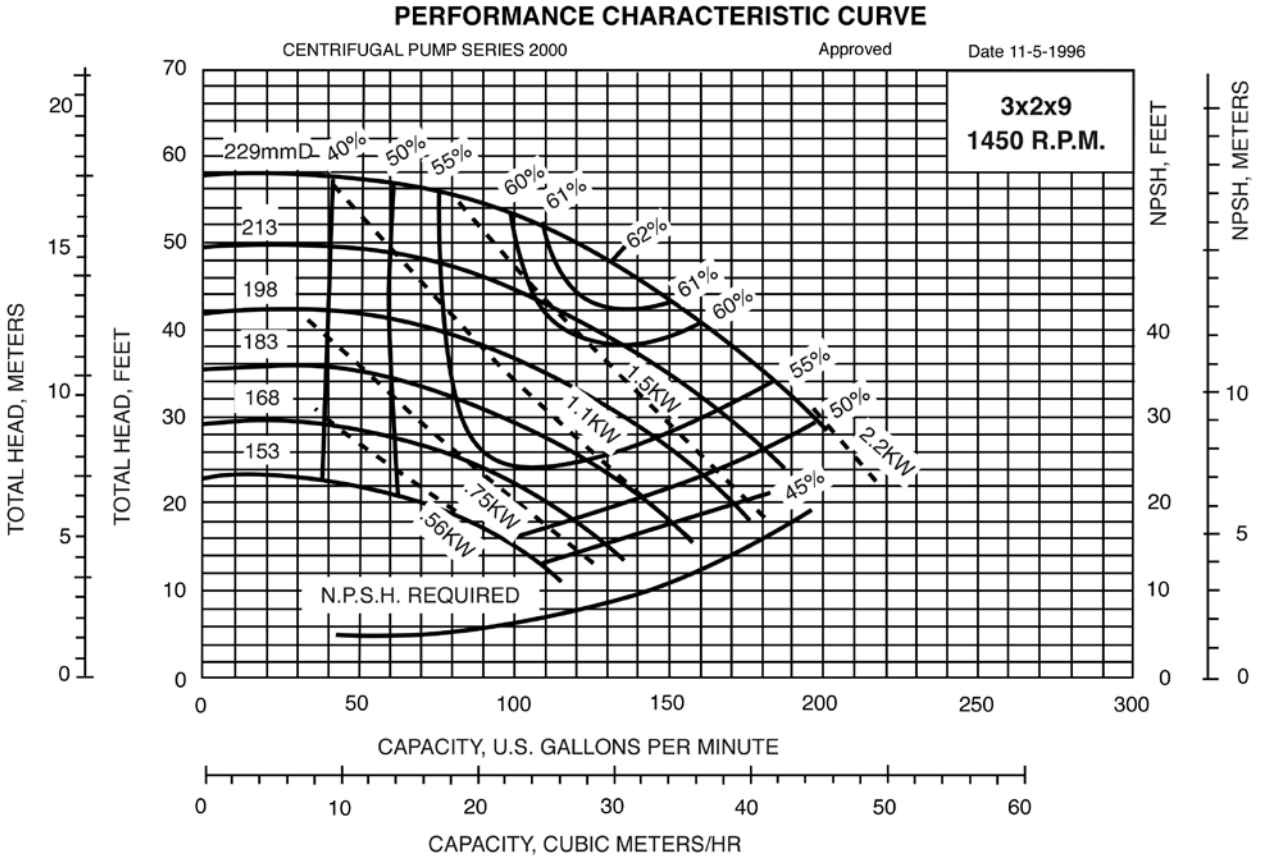

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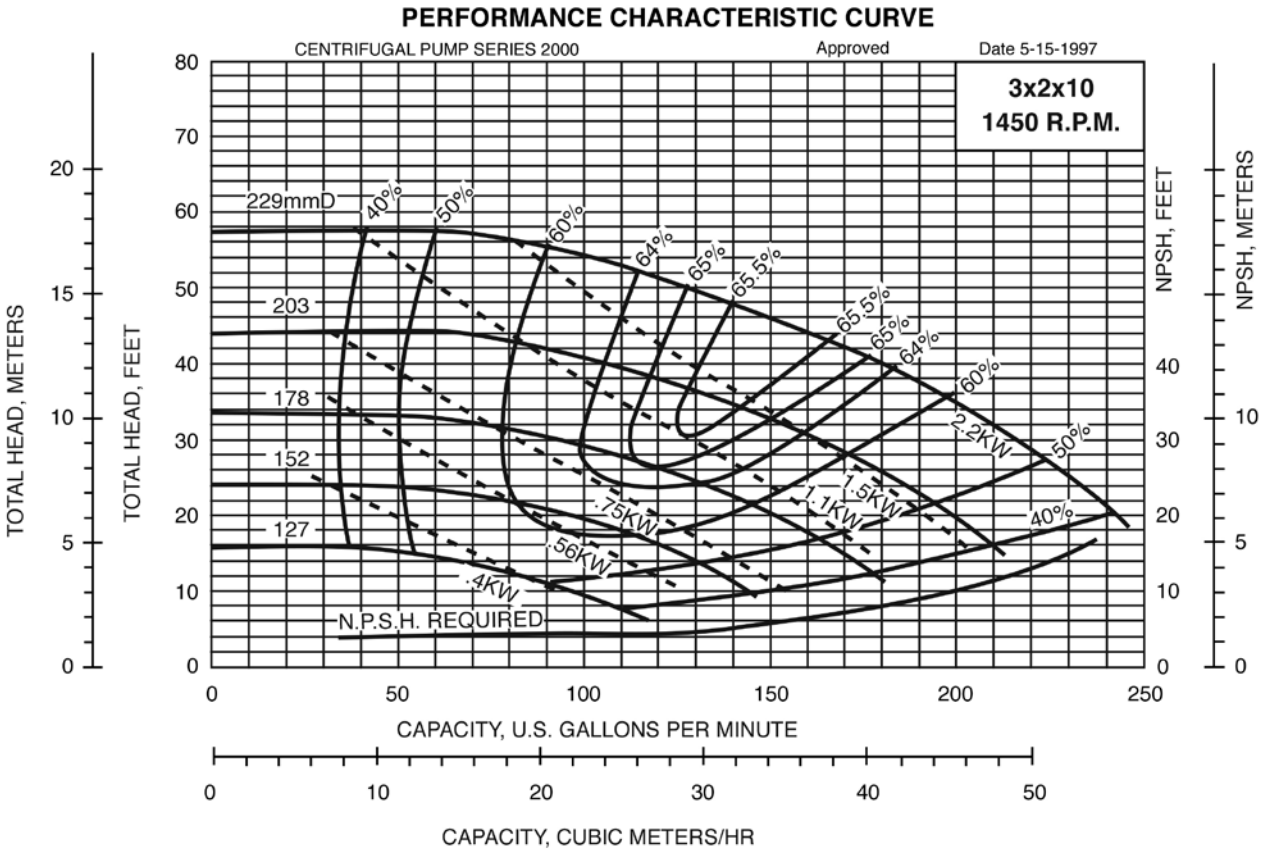

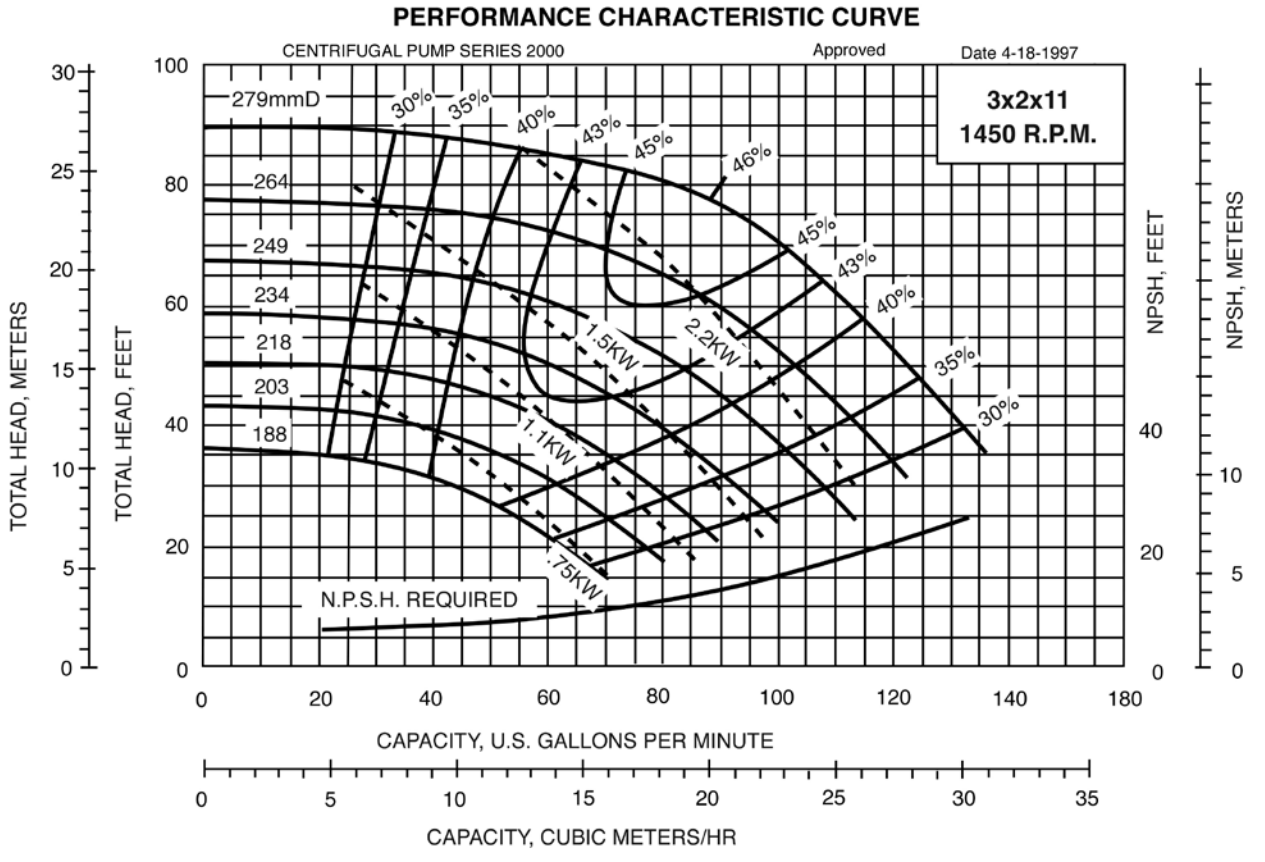

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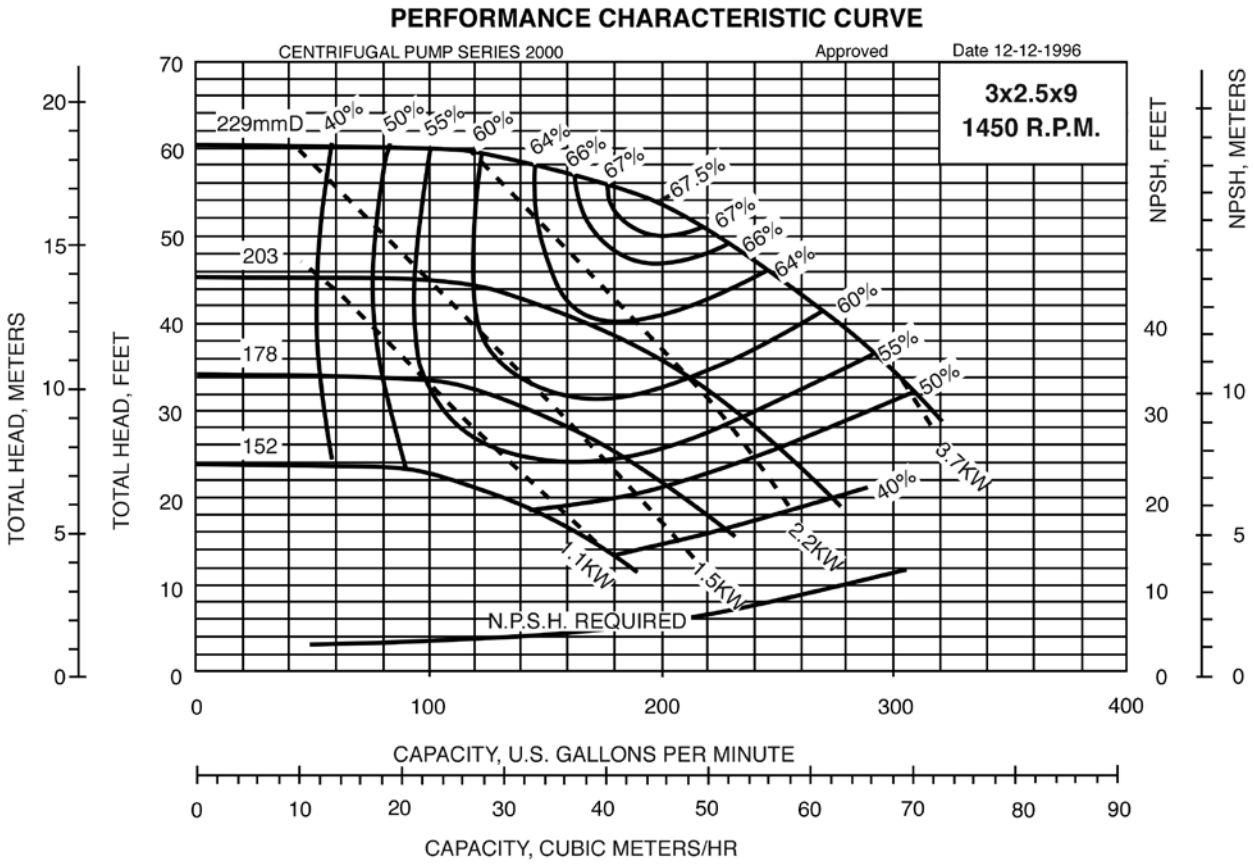

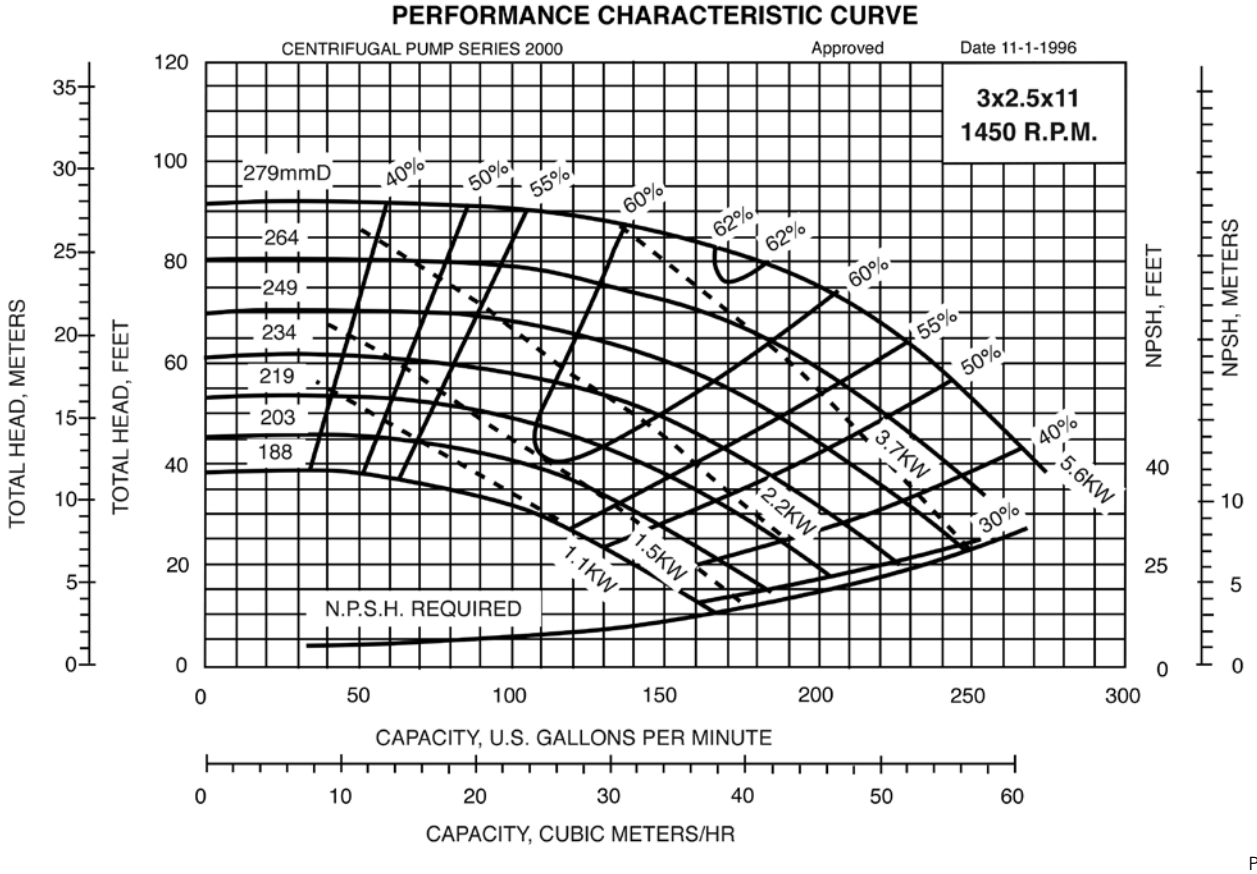

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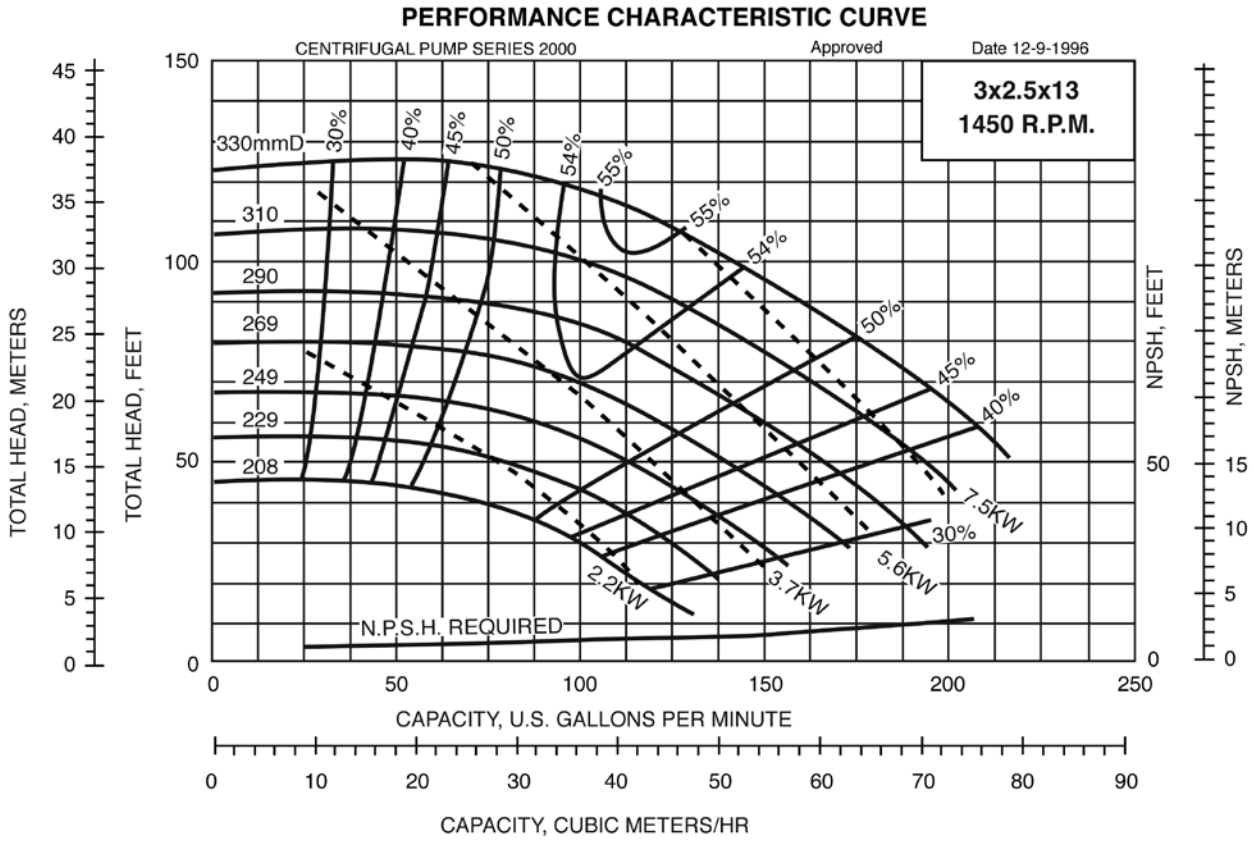

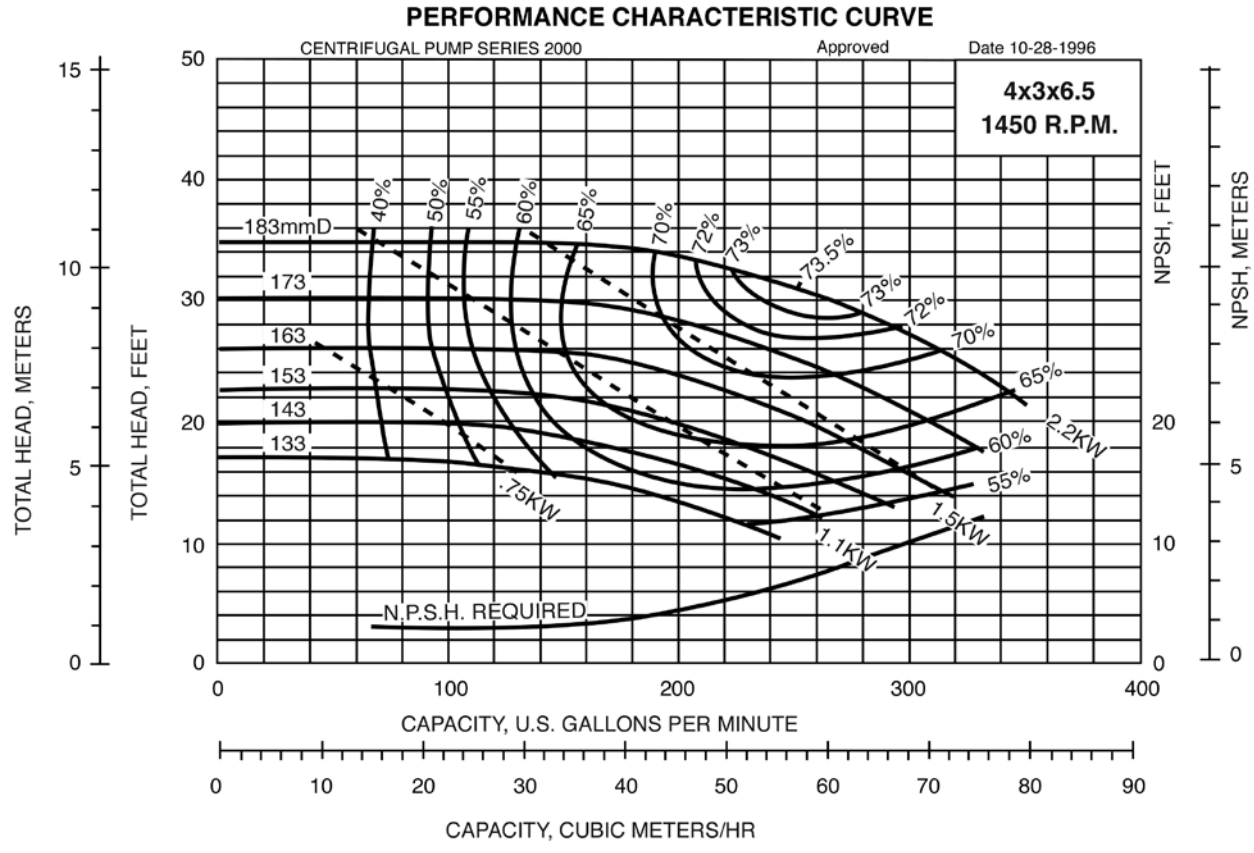

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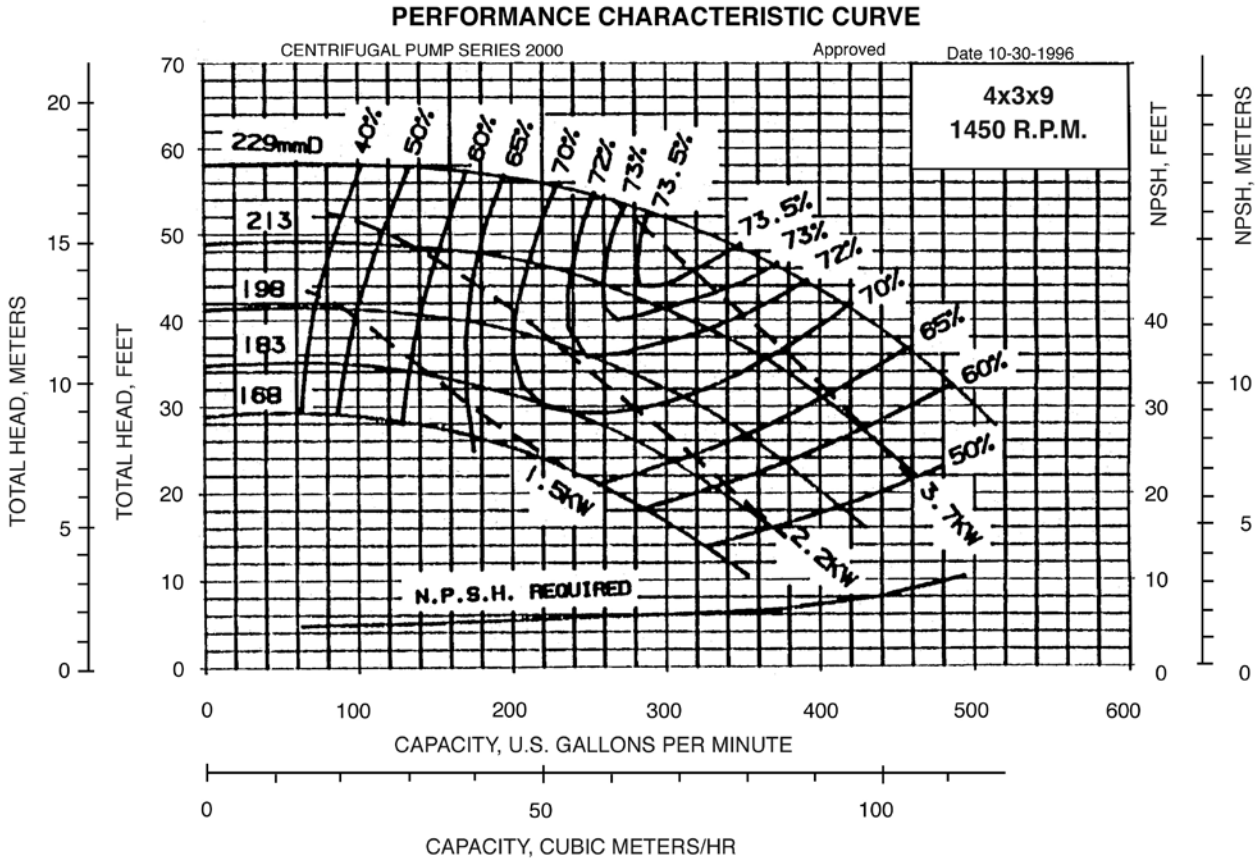

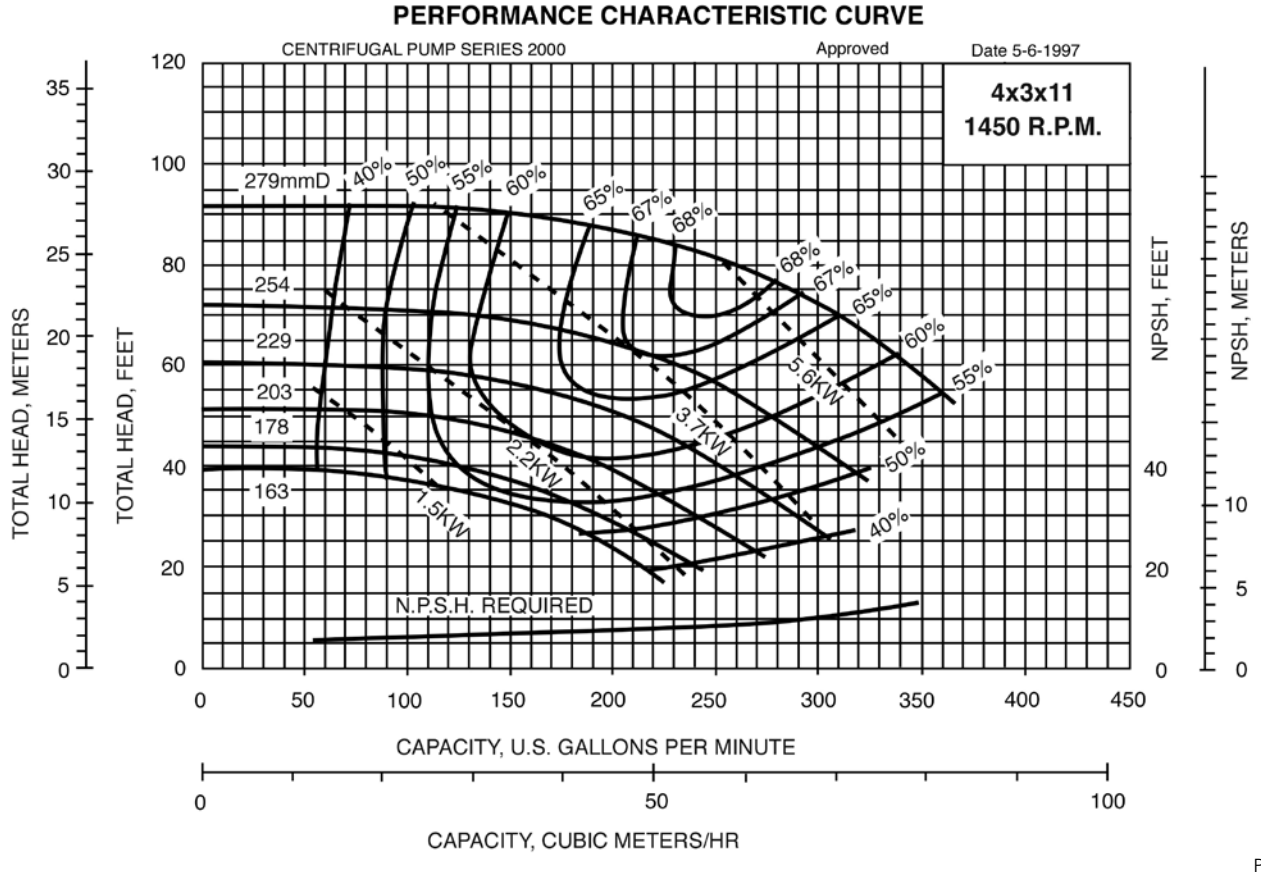

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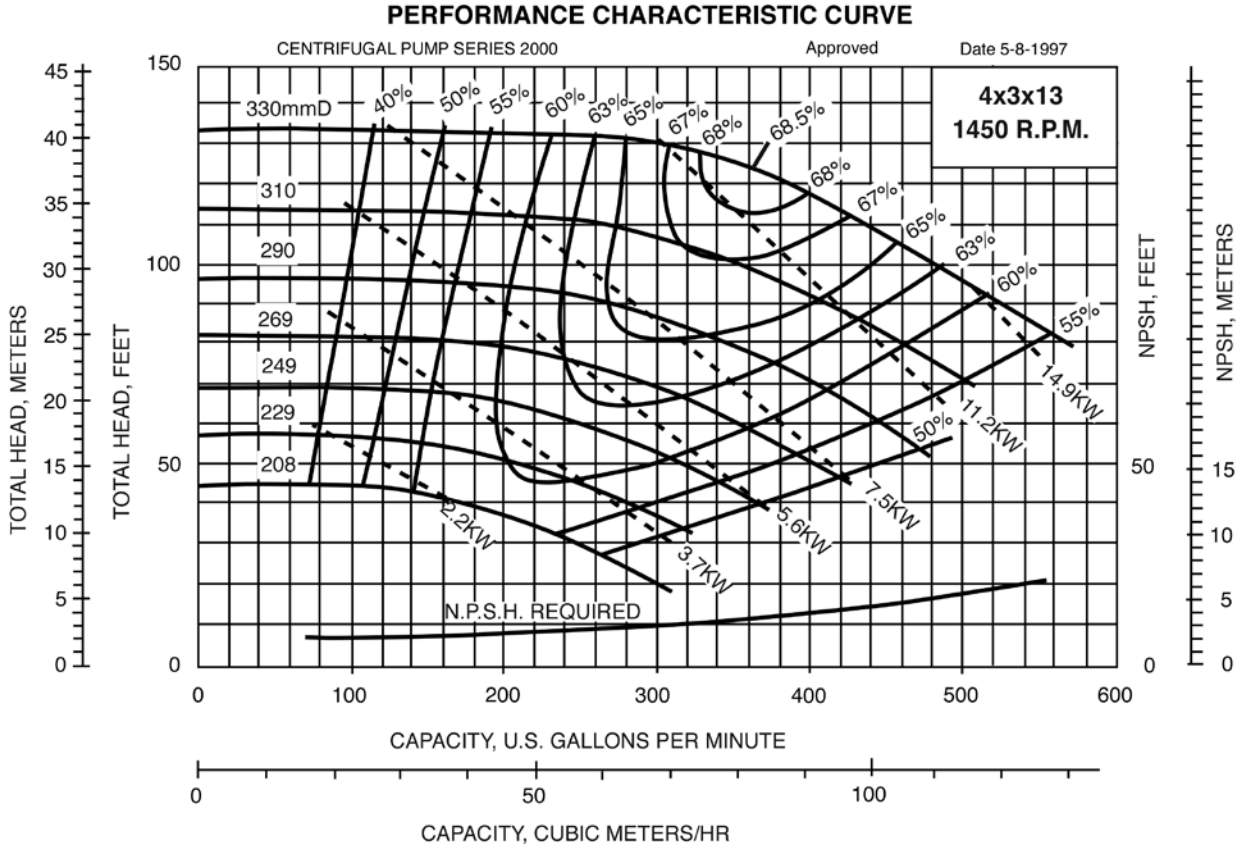

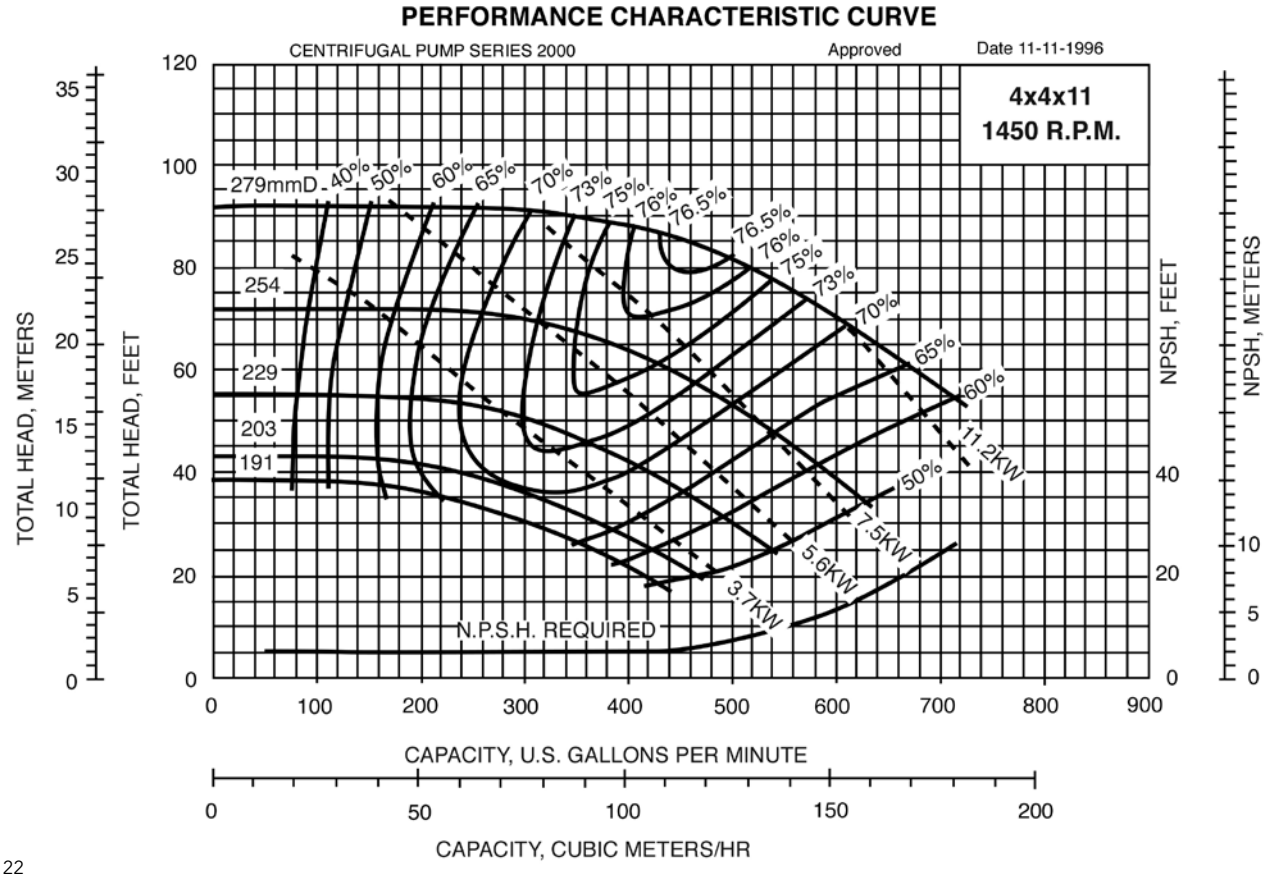

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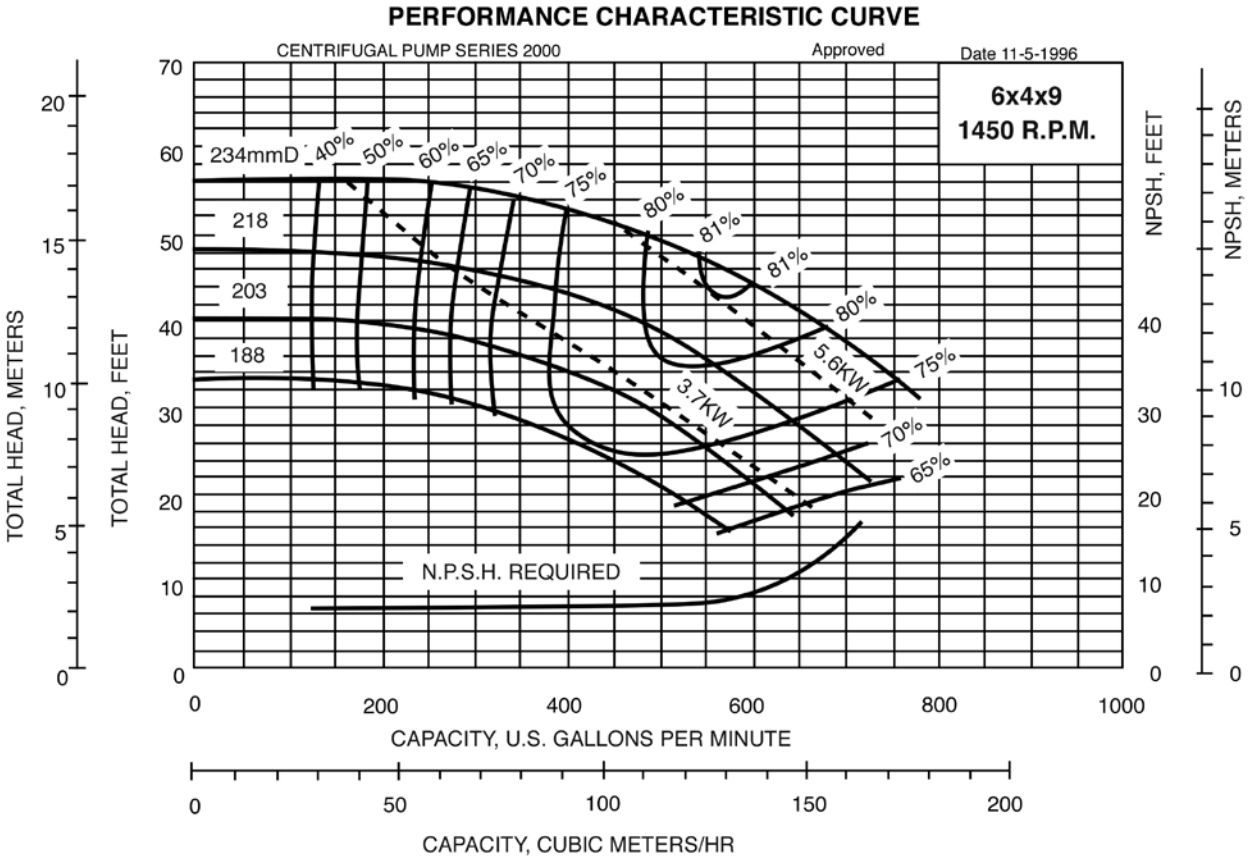

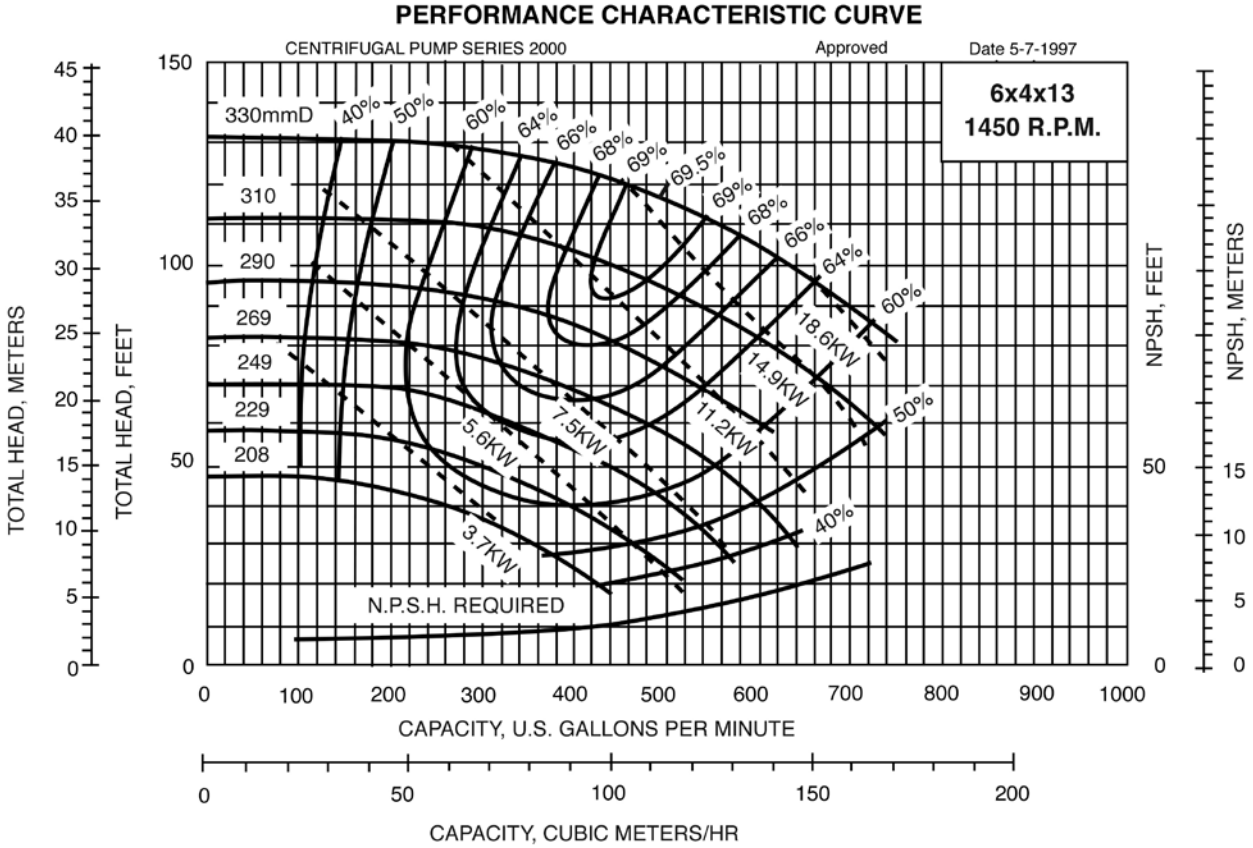

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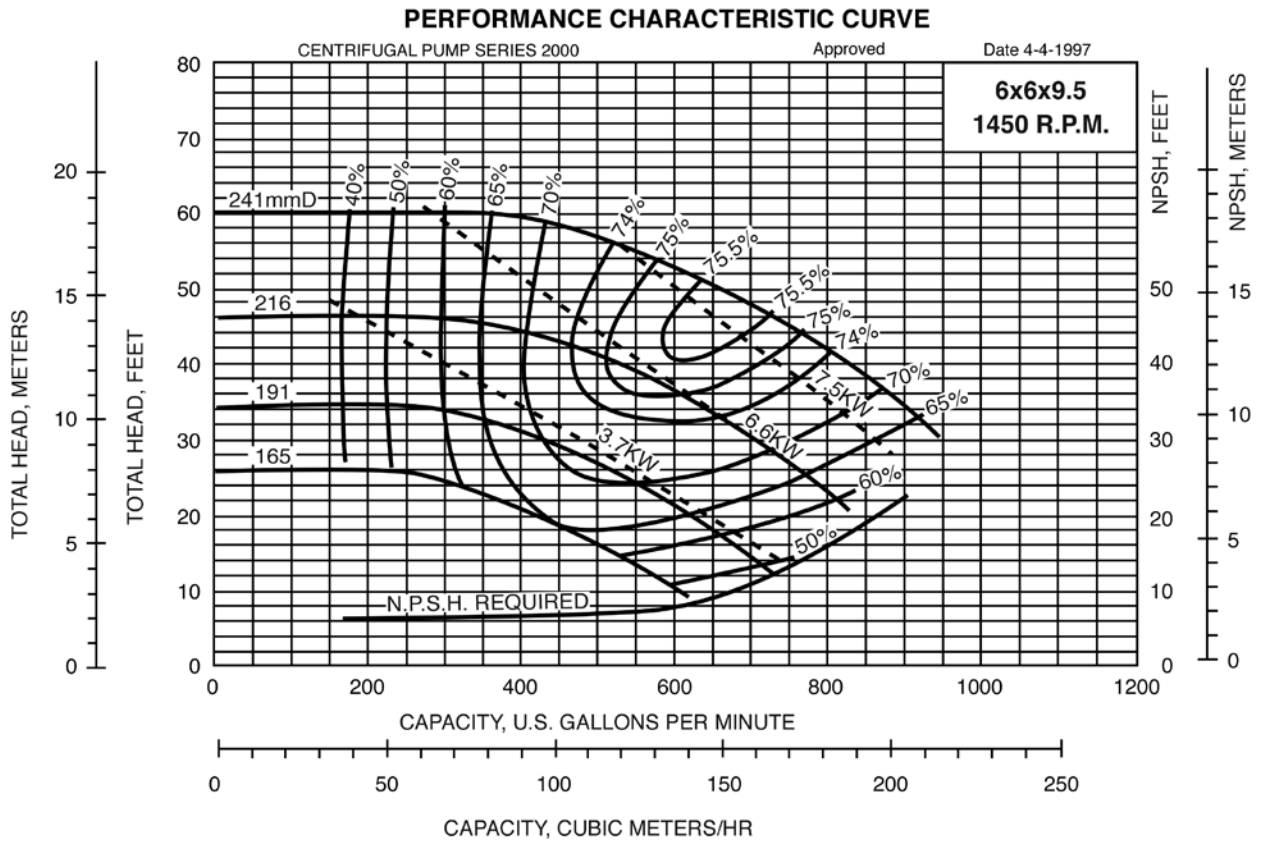

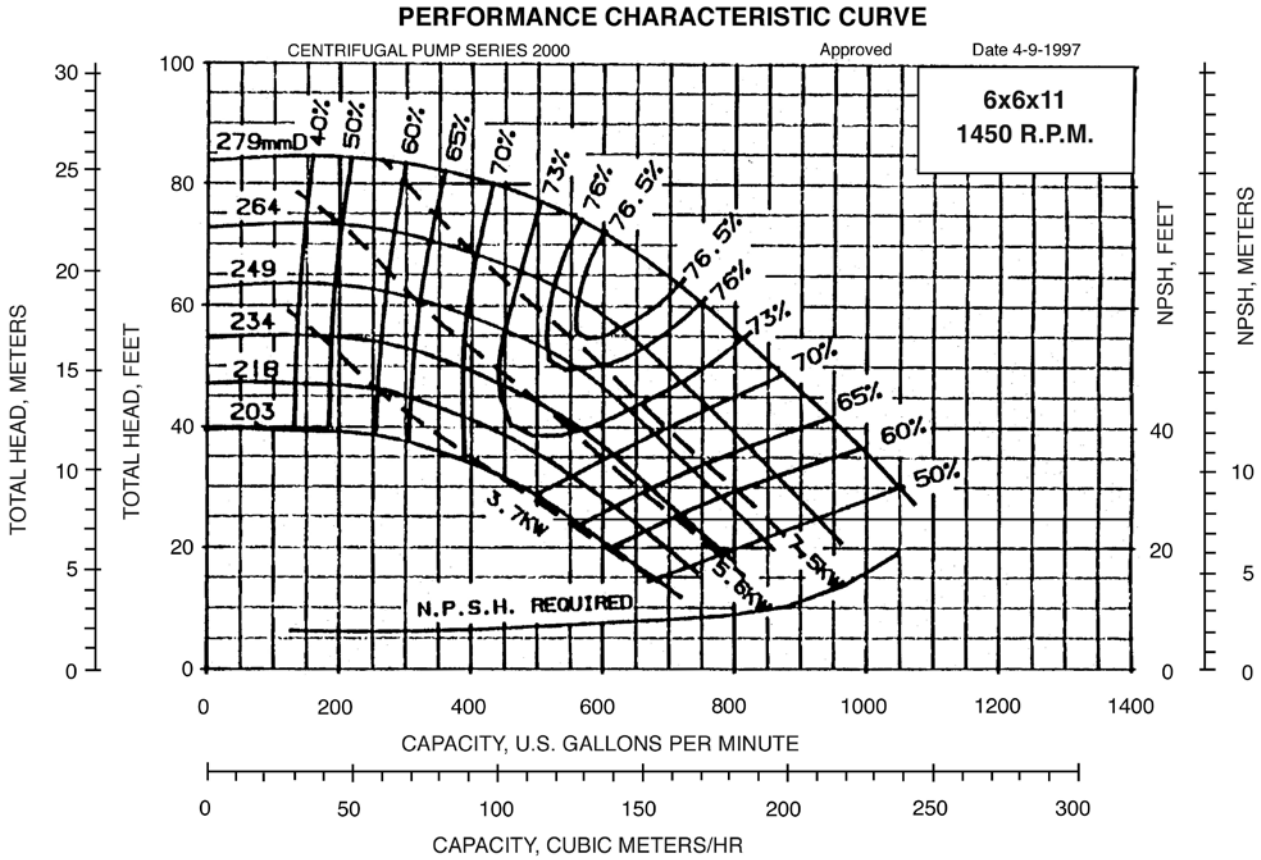

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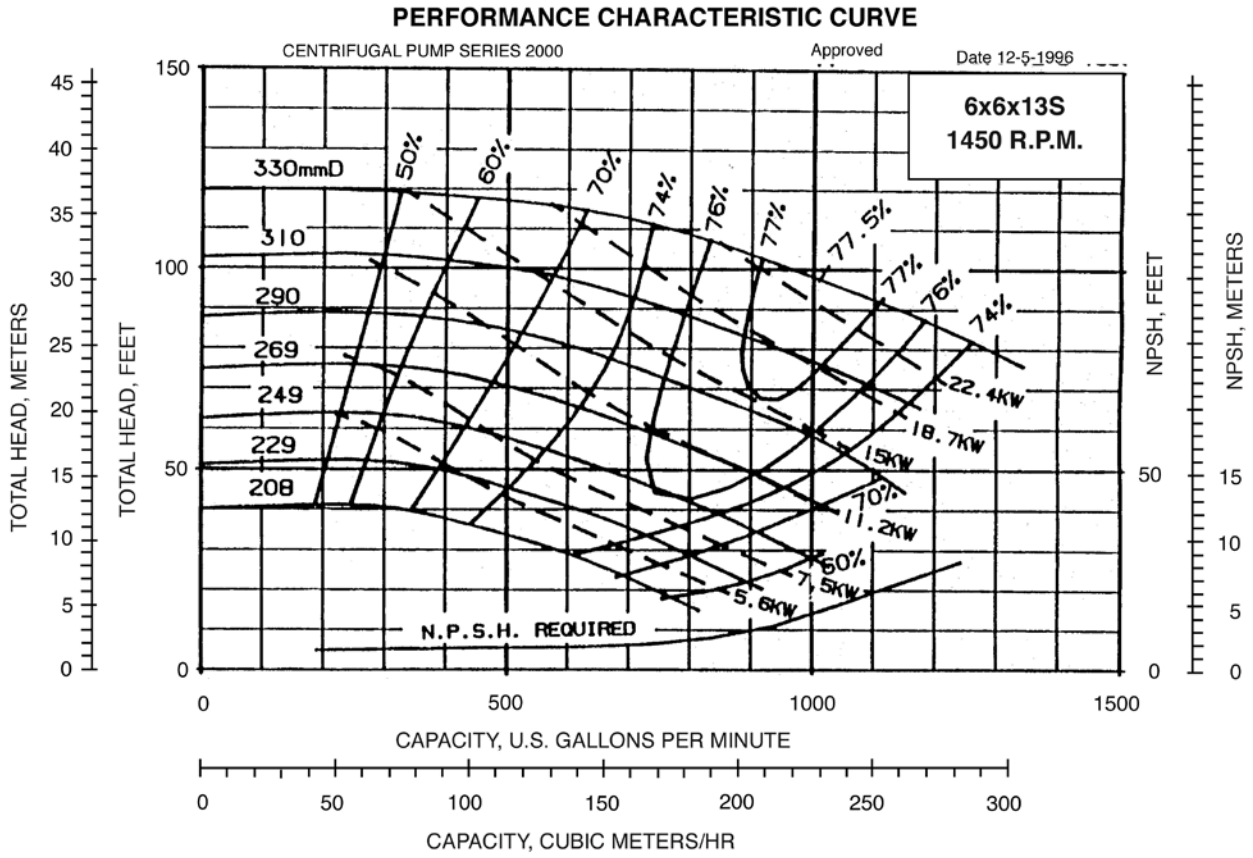

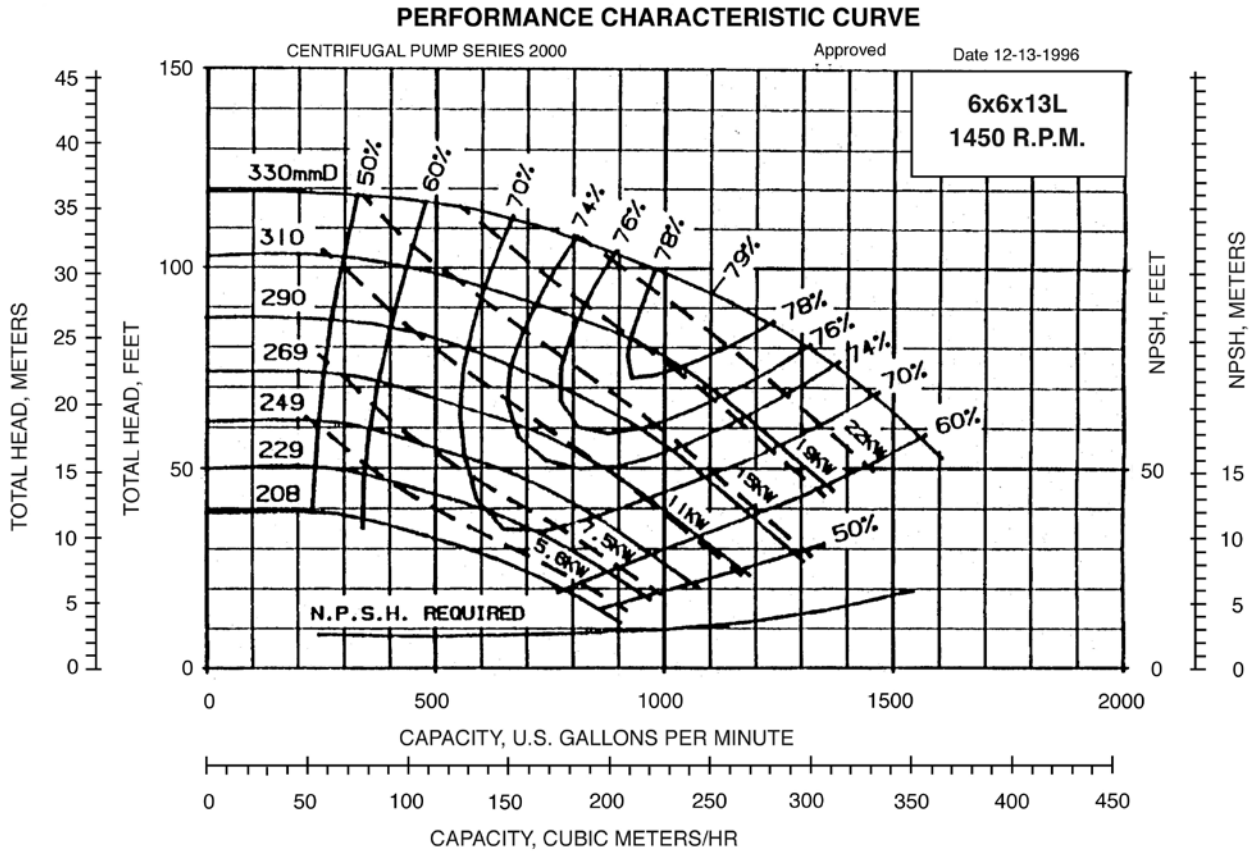

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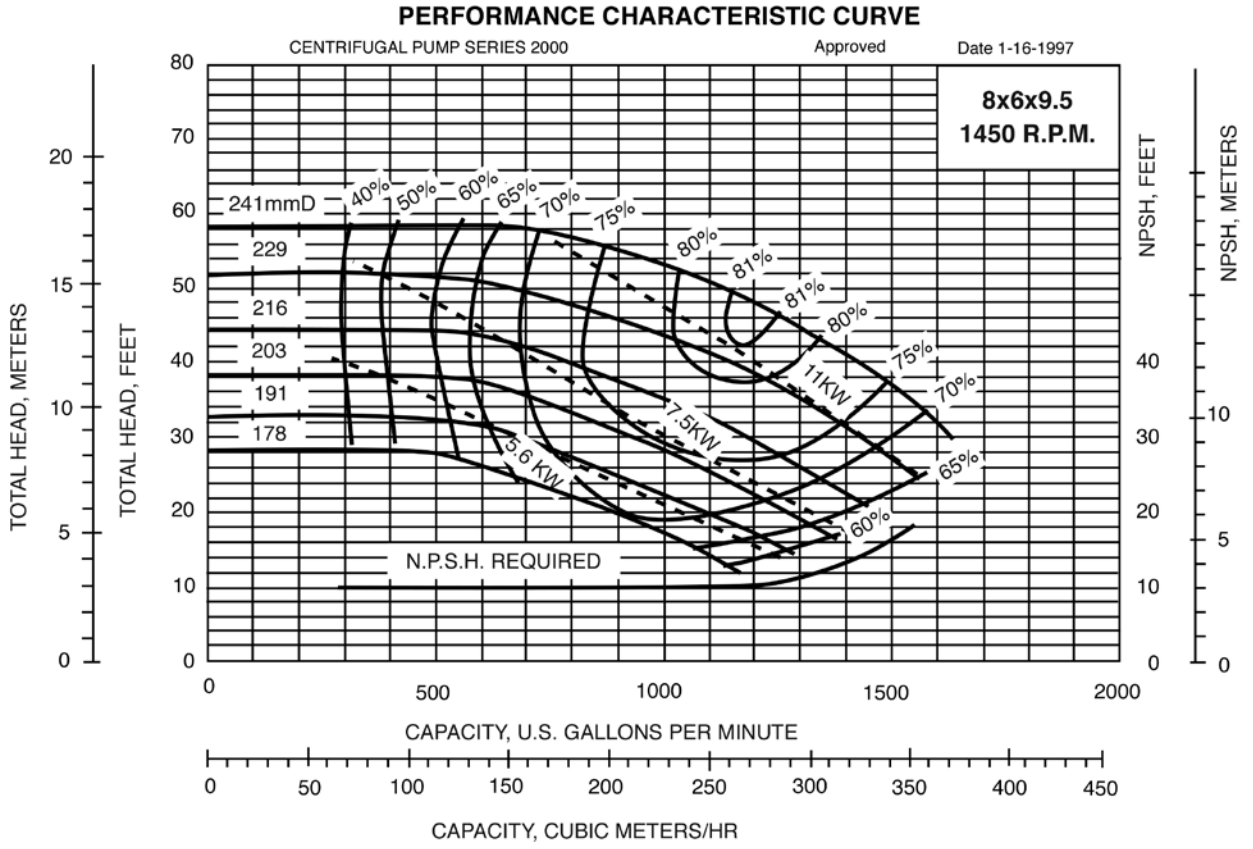

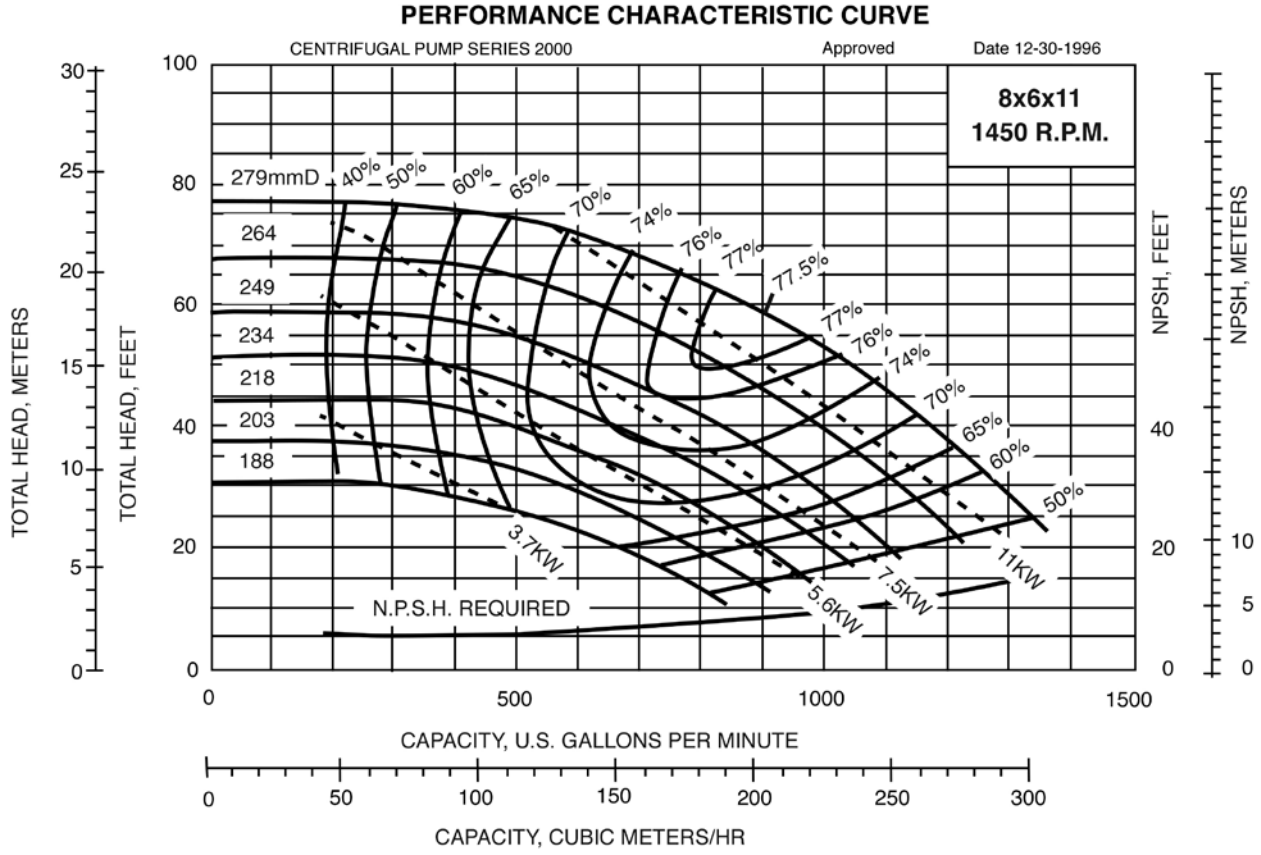

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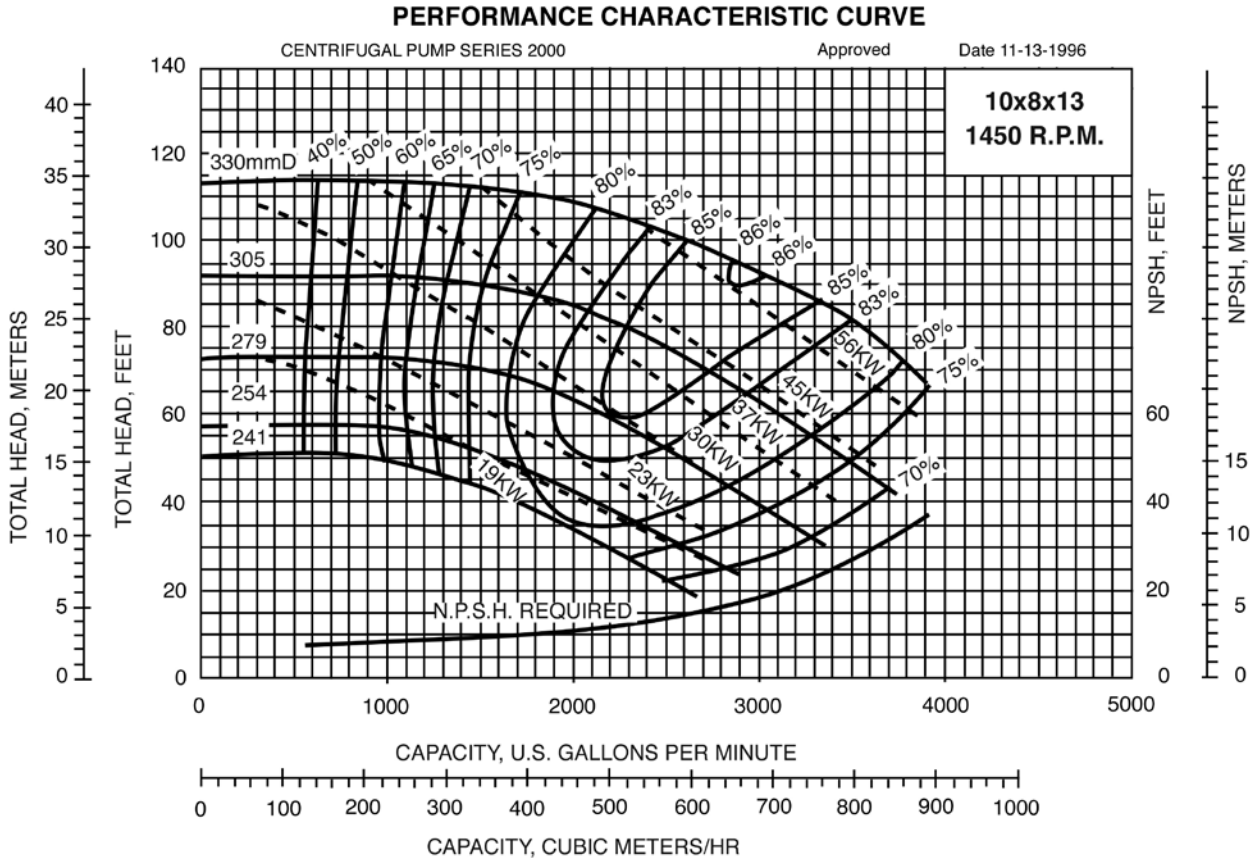

Xylem |'zīləm|

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We're 12,500 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com

xylem
Let's Solve Water

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