



Alfa Laval LKHPF

Performance curves

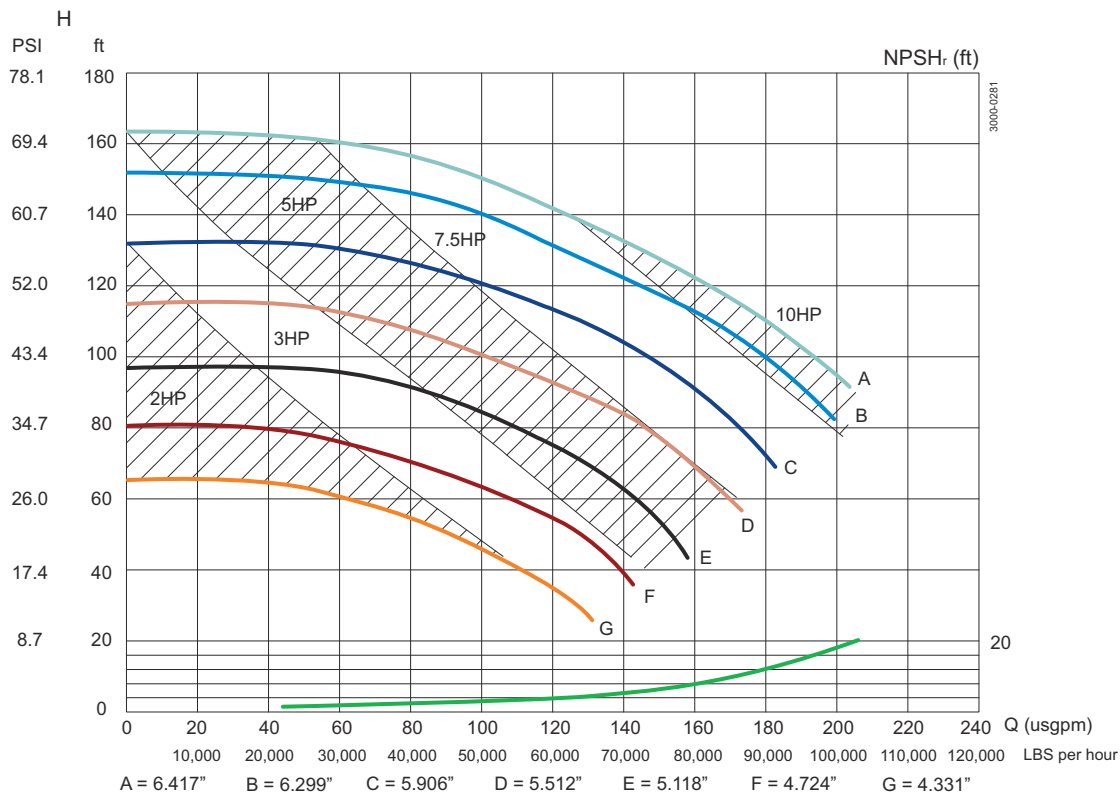
LKHPF-10, 60 Hz

Motor:	3600 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	6.417"
Impeller, Min. dia.:	5.512"
Pump inlet, dia.:	2½", DN 65
Pump outlet, dia.:	2", DN 50
Performance data refer to water at 68 °F	



Note! The curves refer to motor: 11.5 Hp, 3500 rpm. asynchron., 60 Hz. For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR



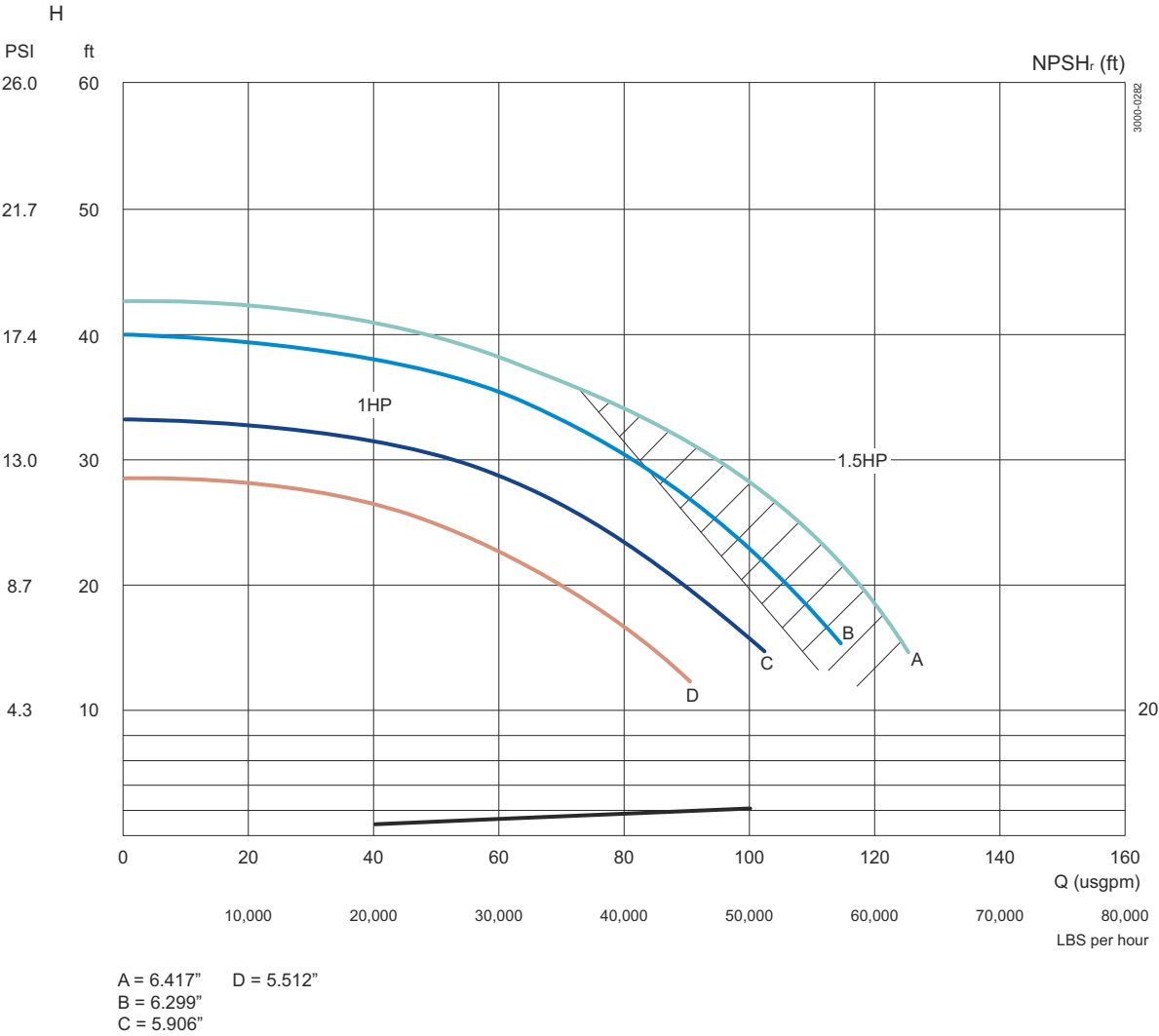
LKHPF-10, 60Hz

Motor:	1800 rpm. synchr.
Tolerance:	±5%
Impeller, Max. dia.:	6.417"
Impeller, Min. dia.:	5.512"
Pump inlet, dia.:	2½", DN 65
Pump outlet, dia.:	2", DN 50
Performance data refer to water at 68 °F	



Note! The curves refer to motor: 2.4 Hp, 1750 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR



LKHPF-20, 60 Hz

Motor: 3600 rpm. synchron.

Tolerance: $\pm 5\%$

Impeller, Max. dia.: 6.496"

Impeller, Min. dia.: 4.724"

Pump inlet, dia.: 2½", DN 65

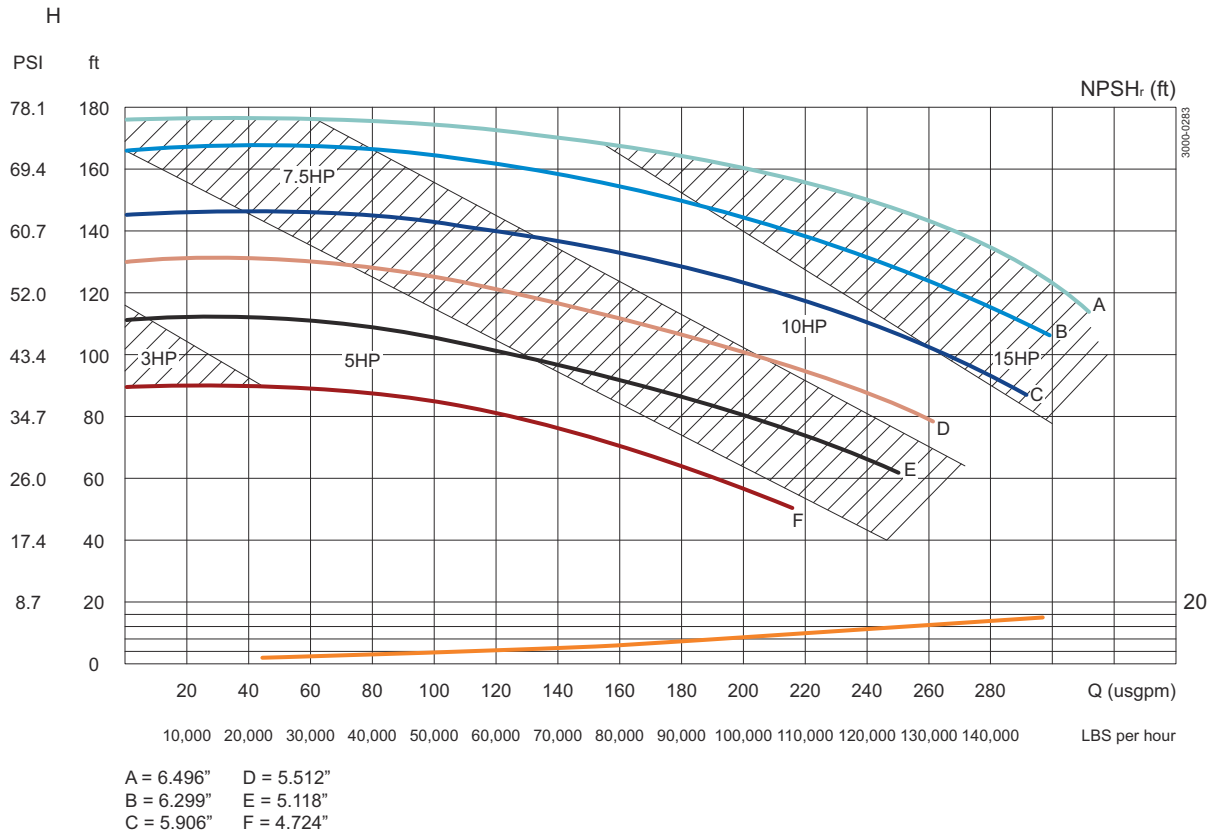
Pump outlet, dia.: 2", DN 50

Performance data refer to water at 68 °F



Note! The curves refer to motor: 16.8 Hp, 3500 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR



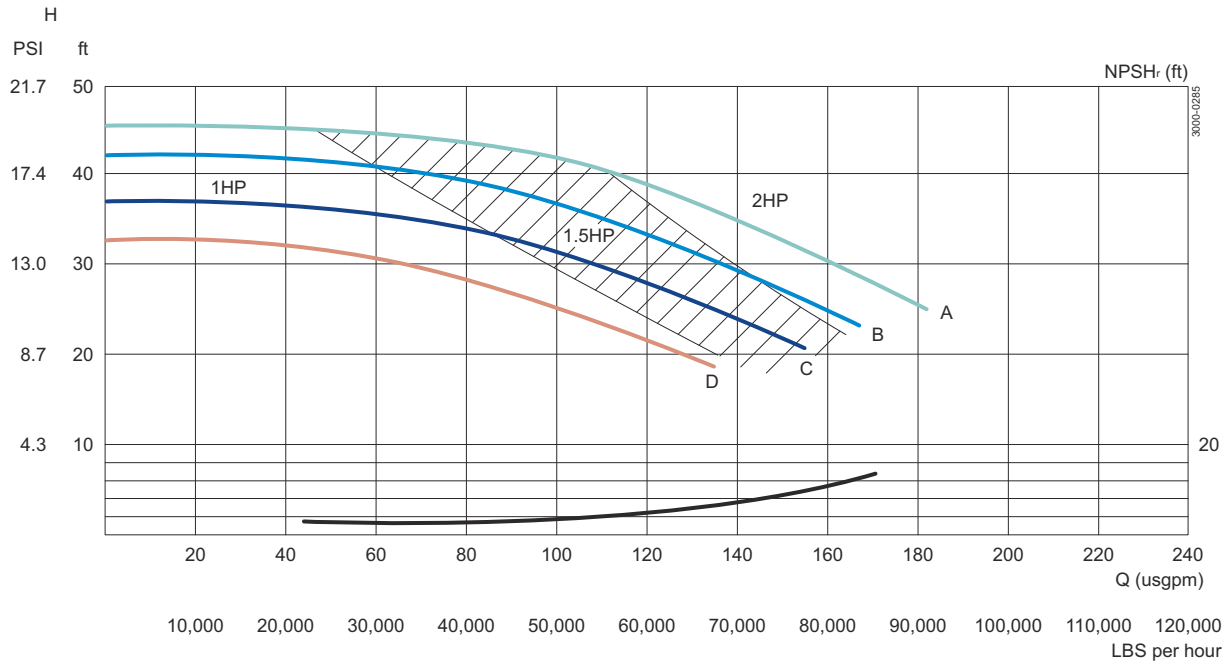
LKHPF-20, 60 Hz

Motor:	1800 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	6.496"
Impeller, Min. dia.:	5.512"
Pump inlet, dia.:	2½", DN 65
Pump outlet, dia.:	2", DN 50
Performance data refer to water at 68 °F	



Note! The curves refer to motor: 2.4 Hp, 1750 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR



A = 6.496" D = 5.512"
 B = 6.299"
 C = 5.906"

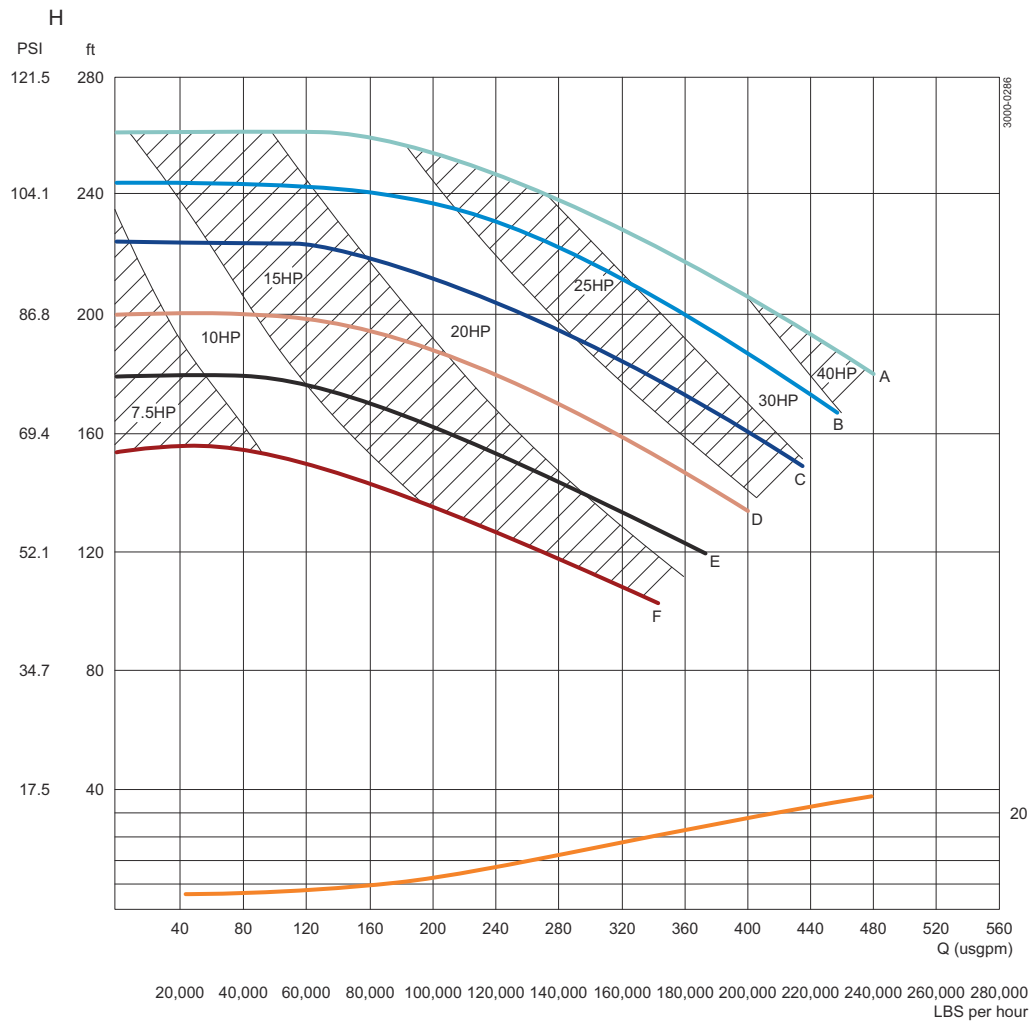
LKHPF-25, 60 Hz

Motor:	3600 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	8.070"
Impeller, Min. dia.:	6.299"
Pump inlet, dia.:	3", DN 80
Pump outlet, dia.:	2½", DN 65
Performance data refer to water at 68 °F	



Note! The curves refer to motor: 33.5 Hp, 3545 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with:
 - 3% for 16.8-28.2 Hp.
 - 5% for 8.5-11.5 Hp.

DO NOT FORGET THE SAFETY FACTOR



A = 8.07" D = 7.09"
 B = 7.87" E = 6.69"
 C = 7.48" F = 6.30"

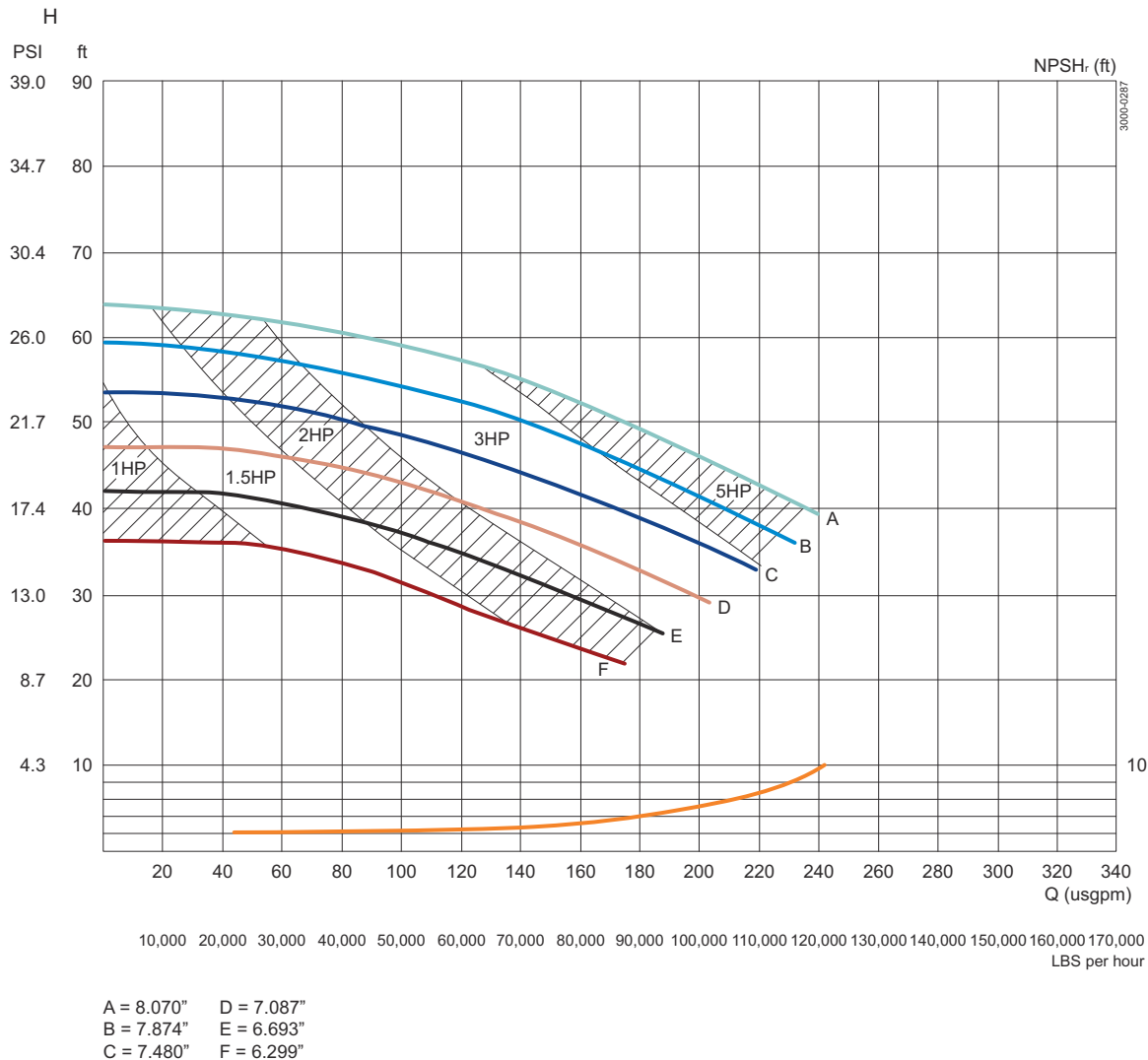
LKHPF-25, 60 Hz

Motor:	1800 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	8.070"
Impeller, Min. dia.:	6.299"
Pump inlet, dia.:	3", DN 80
Pump outlet, dia.:	2½", DN 65
Performance data refer to water at 68 °F	



Note! The curves refer to motor: 4.7 Hp (3.5 kW), 1720 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with: 3%

DO NOT FORGET THE SAFETY FACTOR



LKHPF-35, 60 Hz

Motor:	3600 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	8.661"
Impeller, Min. dia.:	6.69"
Pump inlet, dia.:	2.5", DN 65
Pump outlet, dia.:	2", DN 50
Performance data refer to water at 68 °F	



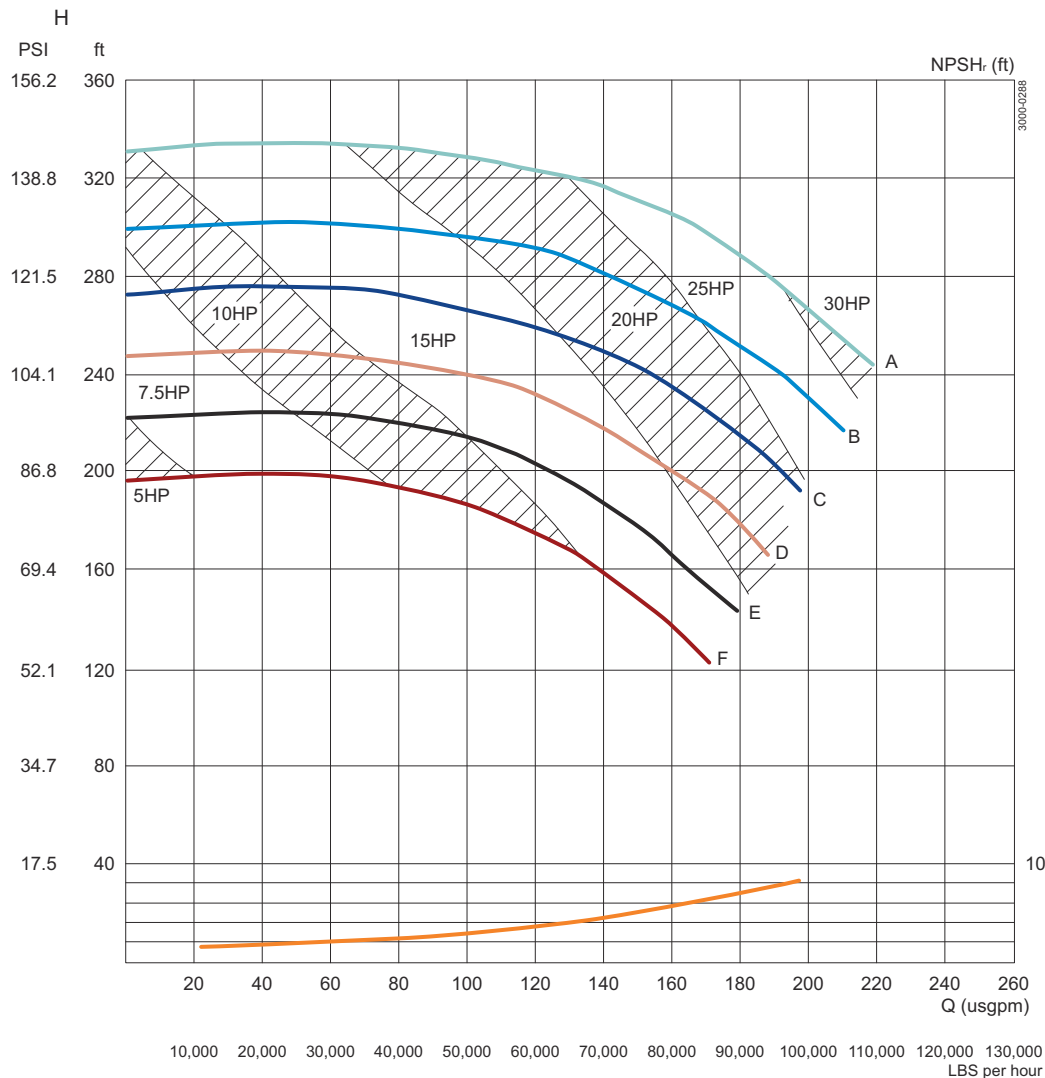
Note! The curves refer to motor: 28.2 Hp, 3535 rpm. asynchron., 60 Hz.

For smaller motors, reduce head (H) with:

- 3% 16.8-22.8 Hp.

- 3% 8.5-11.5 Hp.

DO NOT FORGET THE SAFETY FACTOR



A = 8.661" D = 7.480"
 B = 8.268" E = 7.087"
 C = 7.874" F = 6.693"

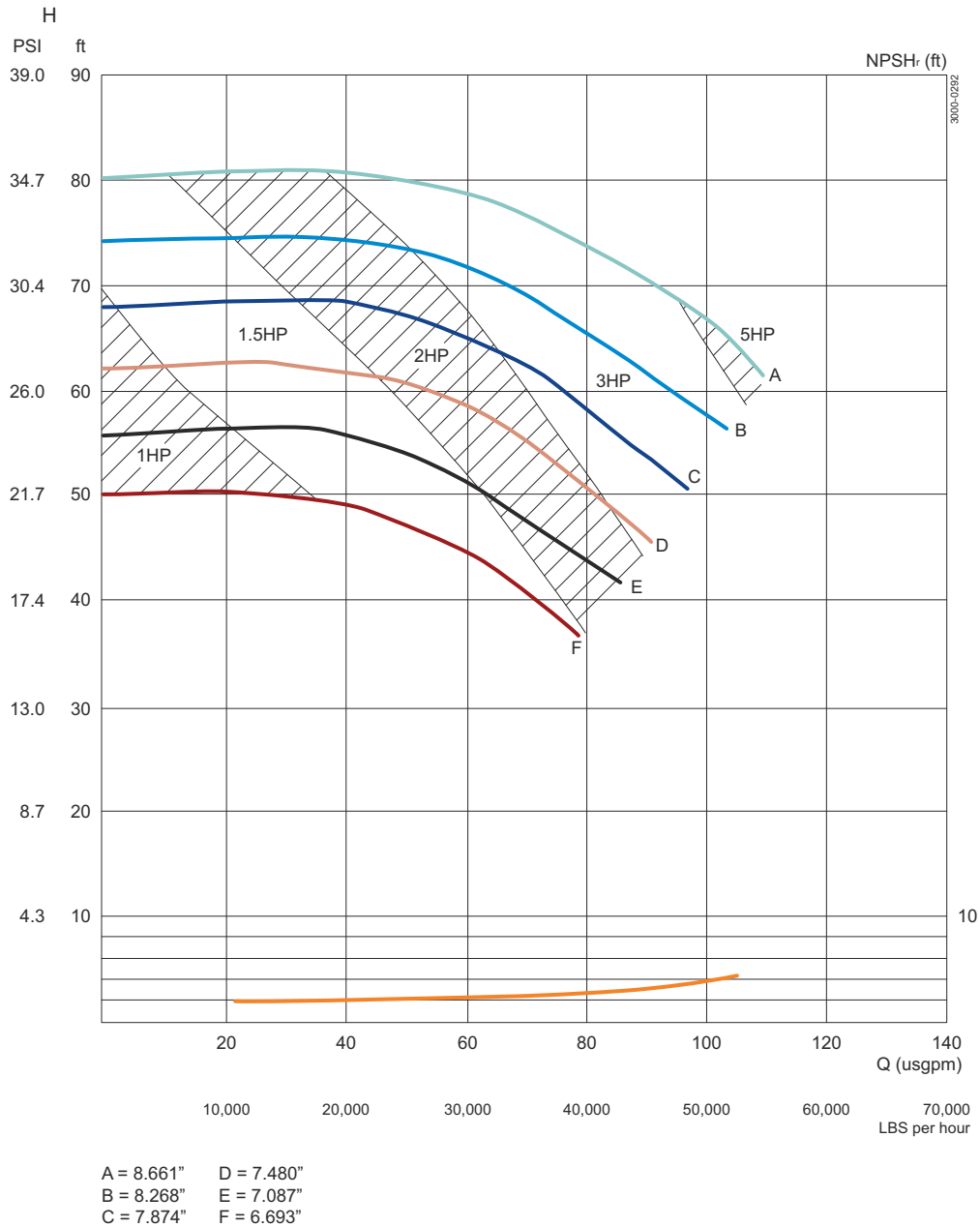
LKHPF-35, 60 Hz

Motor:	1800 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	8.661"
Impeller, Min. dia.:	6.69"
Pump inlet, dia.:	2½", DN 65
Pump outlet, dia.:	2", DN 50
Performance data refer to water at 68 °F	



Note! The curves refer to motor: 3.4 Hp, 1720 rpm. asynchron., 60 Hz. For smaller motors, reduce head (H) with: 3%

DO NOT FORGET THE SAFETY FACTOR



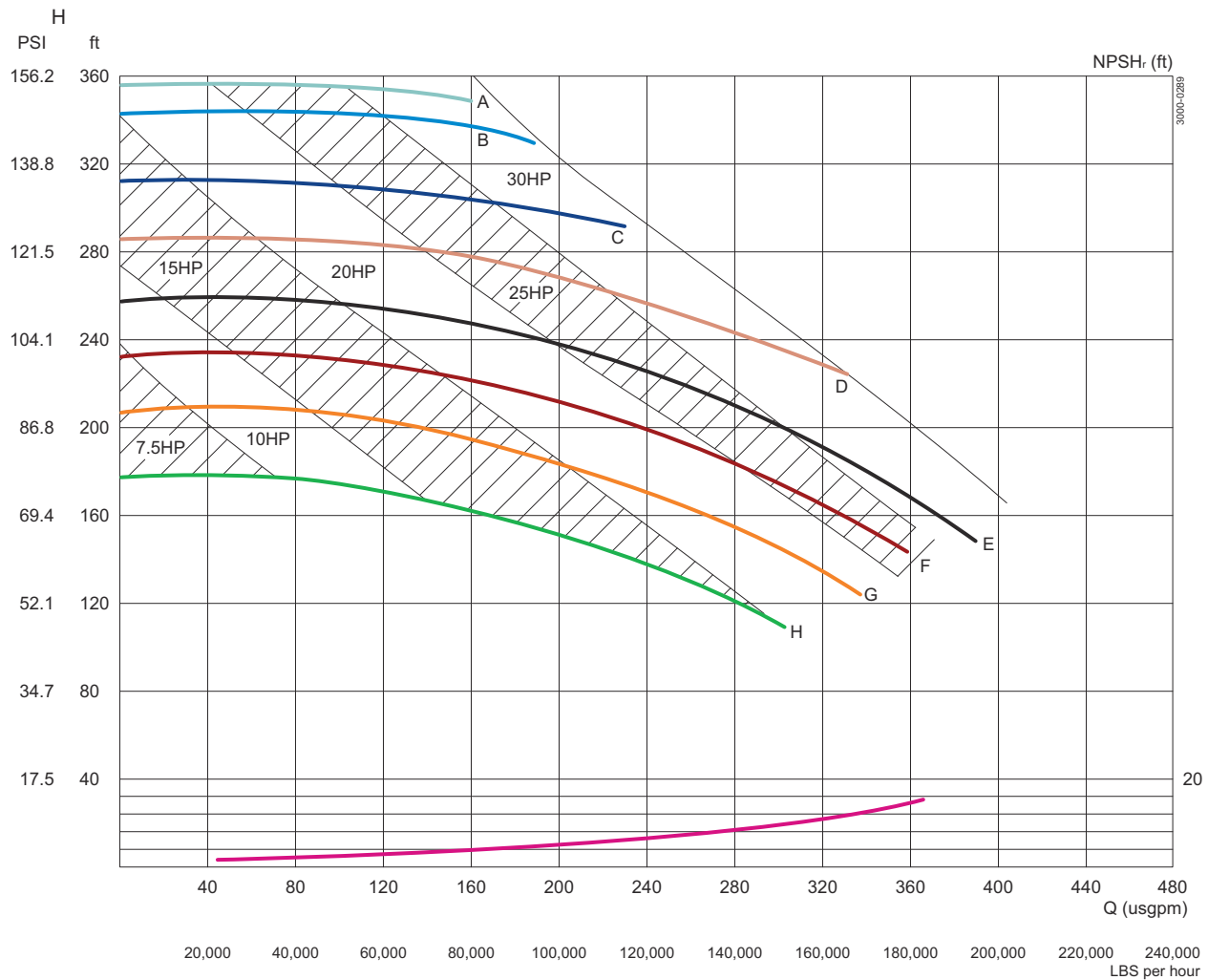
LKHPF-40, 60 Hz

Motor:	3600 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	9.252"
Impeller, Min. dia.:	6.693"
Pump inlet, dia.:	3", DN 80
Pump outlet, dia.:	2", DN 65
Performance data refer to water at 68 °F	



Note! The curves refer to motor: 33.5 Hp, 2940 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with:
 - 3% for 16.8-28.2 Hp.
 - 5% for 11.5 Hp.

DO NOT FORGET THE SAFETY FACTOR



A = 9.252" D = 8.268" G = 7.087"
 B = 9.055" E = 7.874" H = 6.693"
 C = 8.661" F = 7.480"

LKHPF-40, 60 Hz

Motor: 1800 rpm. synchr.

Tolerance: $\pm 5\%$

Impeller, Max. dia.: 9.252"

Impeller, Min. dia.: 7.480"

Pump inlet, dia.: 3", DN 80

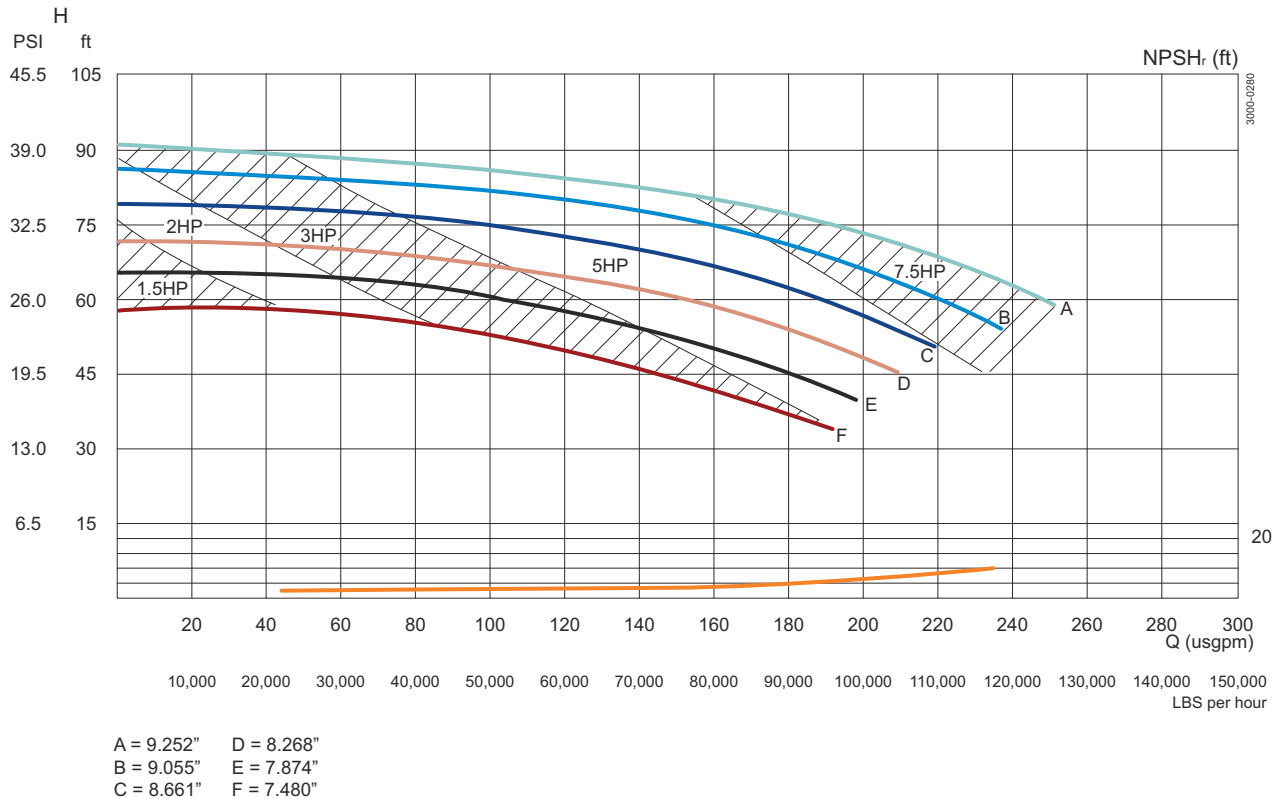
Pump outlet, dia.: 2", DN 65

Performance data refer to water at 68 °F



Note! The curves refer to motor: 8.5 Hp, 1750 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with 5%

DO NOT FORGET THE SAFETY FACTOR



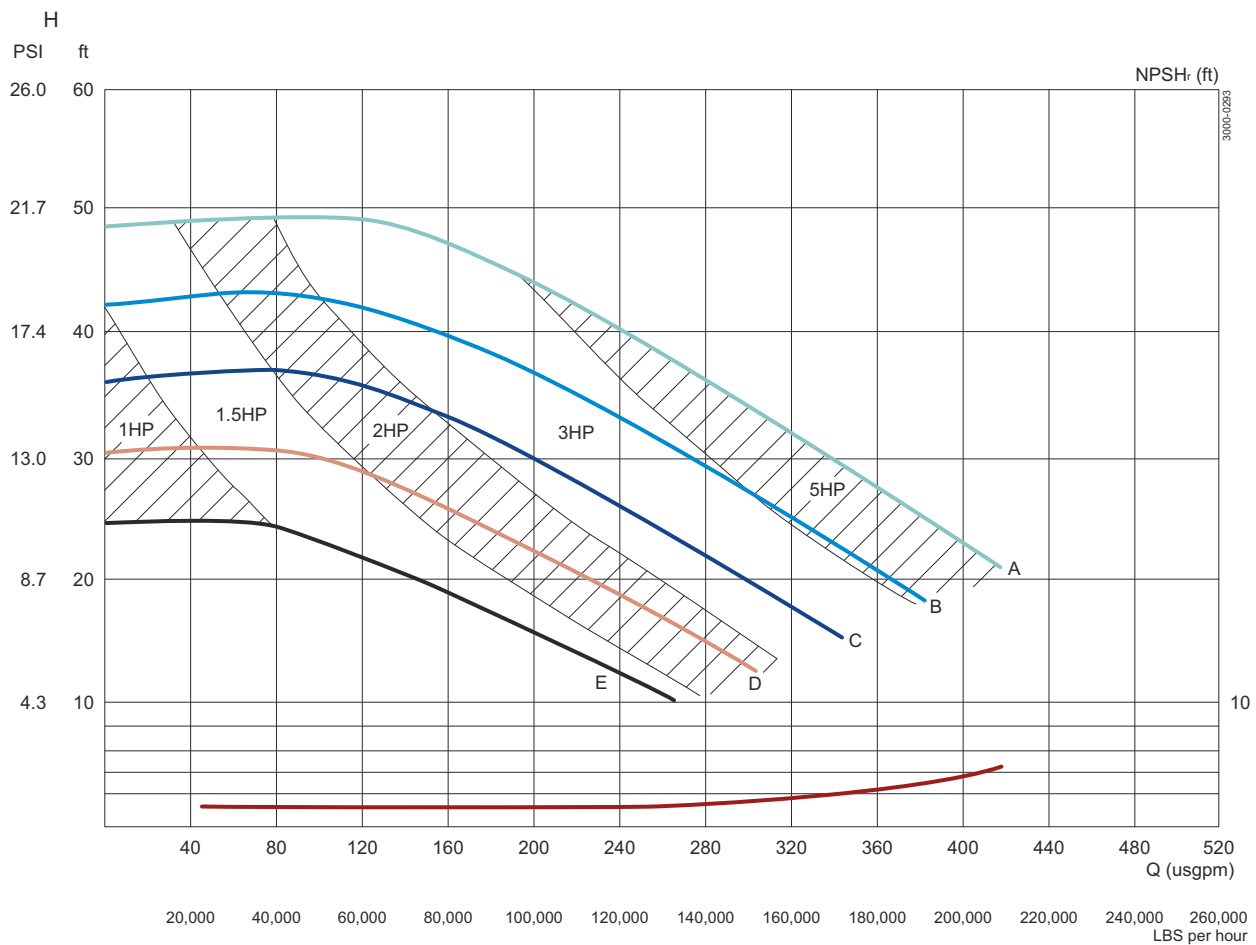
LKHPF-45, 60 Hz

Motor:	3600 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	7.008"
Impeller, Min. dia.:	5.512"
Pump inlet, dia.:	4", DN 100
Pump outlet, dia.:	3", DN 80
Performance data refer to water at 68 °F	



Note! The curves refer to motor: 33.5 Hp, 3545 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with:
 - 3% for 16.8-28.2 Hp.
 - 5% for 8.5-11.5 Hp.

DO NOT FORGET THE SAFETY FACTOR



A = 7.008" D = 5.906"
 B = 6.693" E = 5.512"
 C = 6.299"

LKHPF-45, 60Hz

Motor: 1800 rpm. synchron.

Tolerance: $\pm 5\%$

Impeller, Max. dia.: 7.008"

Impeller, Min. dia.: 5.512"

Pump inlet, dia.: 4", DN 100

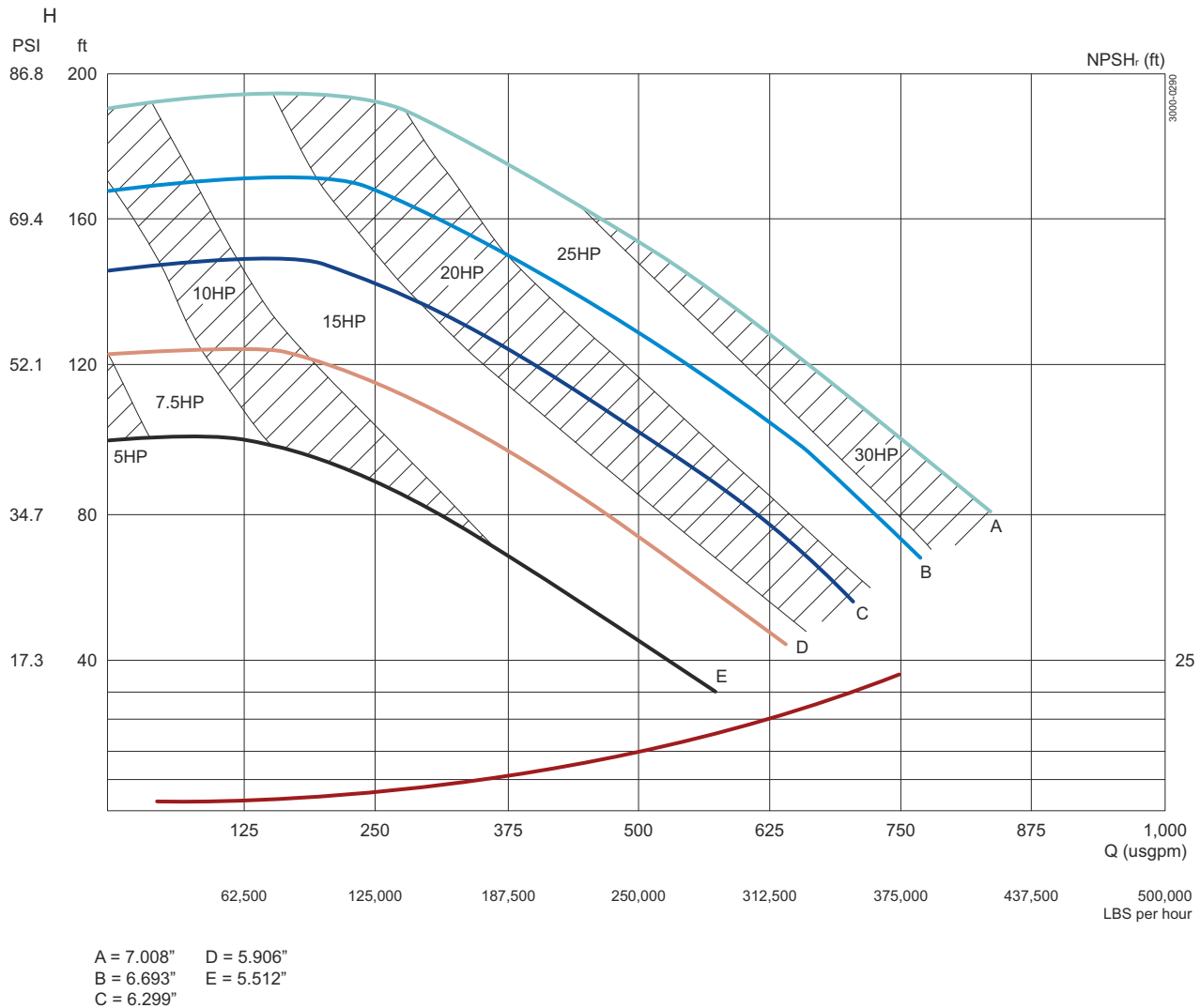
Pump outlet, dia.: 3", DN 80

Performance data refer to water at 68 °F



Note! The curves refer to motor: 4.7 Hp, 1720 rpm. asynchr., 60 Hz.
For smaller motors.

DO NOT FORGET THE SAFETY FACTOR



LKHPF-50, 60 Hz

Motor:	3600 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	8.070"
Impeller, Min. dia.:	5.906"
Pump inlet, dia.:	4", DN 100
Pump outlet, dia.:	3", DN 80
Performance data refer to water at 68 °F	

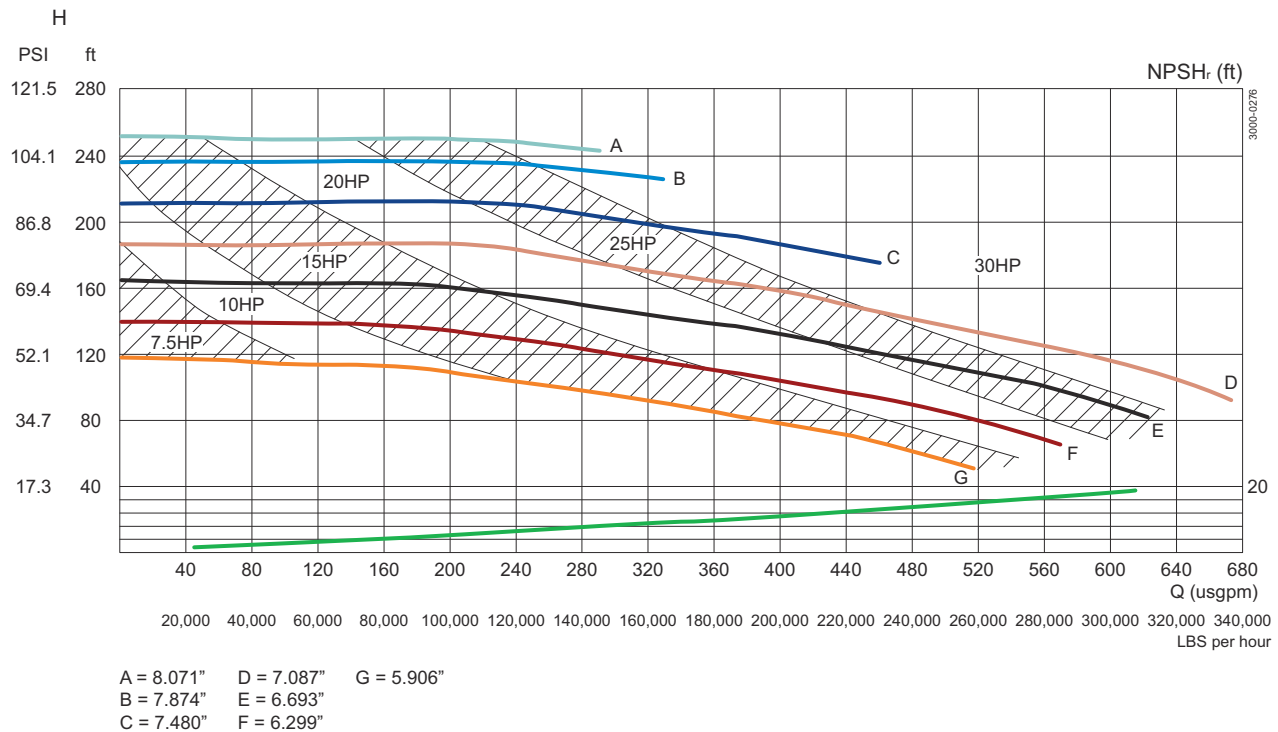


Note! The curves refer to motor: 33.5 Hp, 3500 rpm. asynchr., 60 Hz.

For smaller motors, reduce head (H) with:

- 3% for 16.8-28.2 Hp.
- 5% for 8.5-11.5 Hp.

DO NOT FORGET THE SAFETY FACTOR

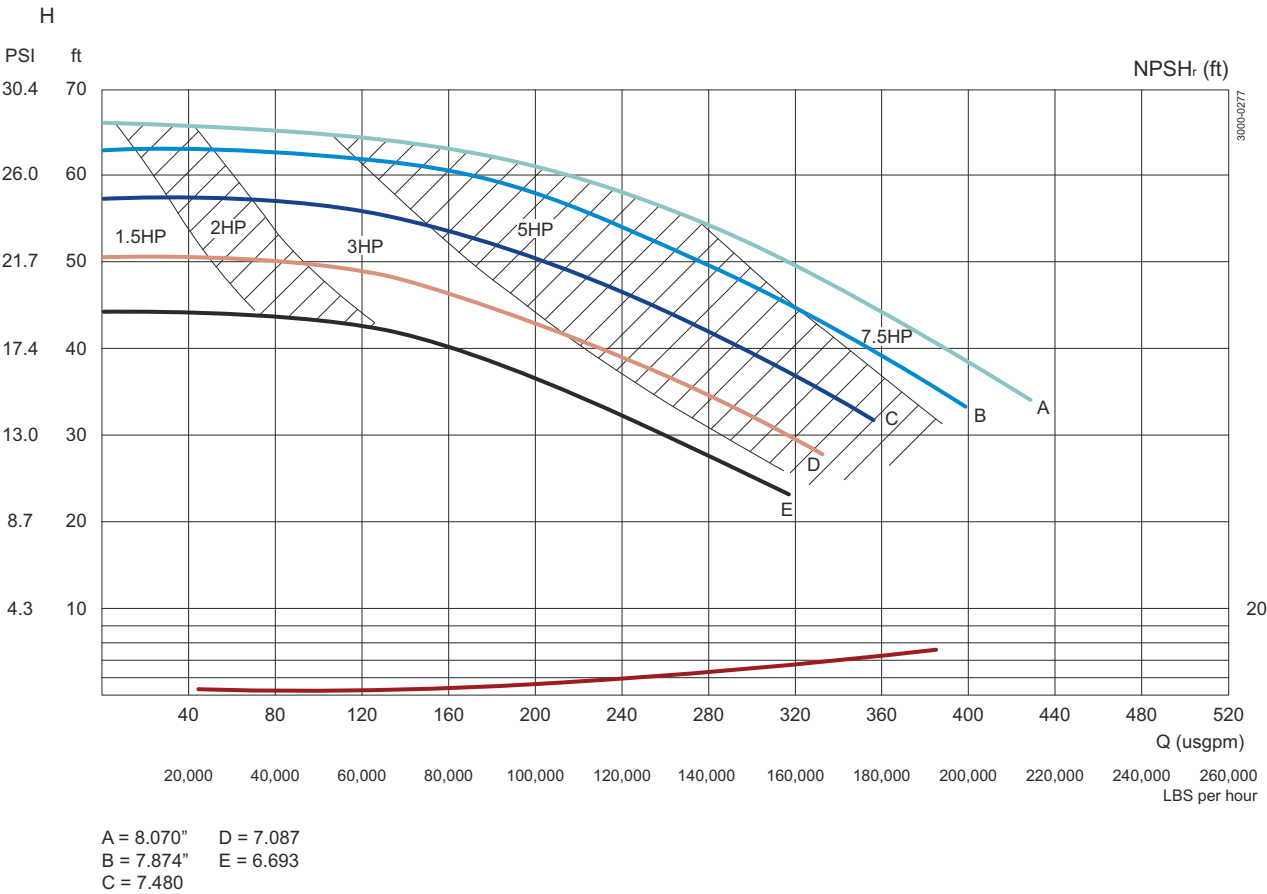


LKHPF-50, 60Hz

Motor:	1800 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	8.070"
Impeller, Min. dia.:	6.693"
Pump inlet, dia.:	4", DN 100
Pump outlet, dia.:	3", DN 80
Performance data refer to water at 68 °F	

 The curves refer to motor: 6.0 Hp, 1750 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with 5%

DO NOT FORGET THE SAFETY FACTOR



LKHPF-60, 60 Hz

Motor:	3600 rpm. synchr.
Tolerance:	±5%
Impeller, Max. dia.:	8.268"
Impeller, Min. dia.:	6.299"
Pump inlet, dia.:	4", DN 100
Pump outlet, dia.:	6", DN 150
Performance data refer to water at 68 °F	



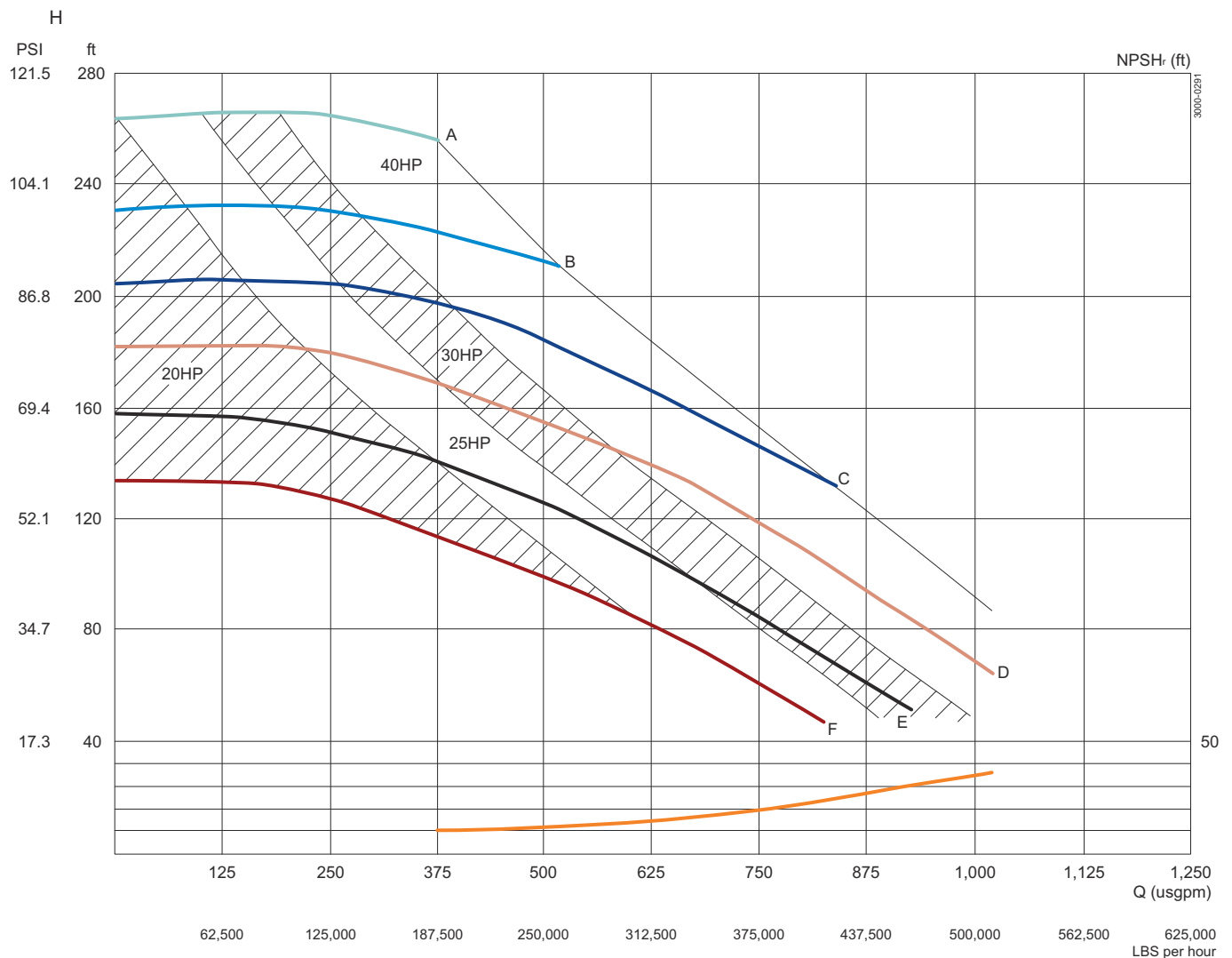
Note! The curves refer to motor: 46.9 Hp, 3500 rpm. asynchr., 60 Hz.

For smaller motors, reduce head (H) with:

3% for 16.8-28.2 Hp.

6% for 8.5-11.5 Hp.

DO NOT FORGET THE SAFETY FACTOR



A = 8.268" D = 7.087"
 B = 7.874" E = 6.693"
 C = 7.480" F = 6.299"

LKHPF-60, 60Hz

Motor: 1800 rpm. synchron.

Tolerance: $\pm 5\%$

Impeller, Max. dia.: 8.268"

Impeller, Min. dia.: 6.299"

Pump inlet, dia.: 4", DN 100

Pump outlet, dia.: 6", DN 150

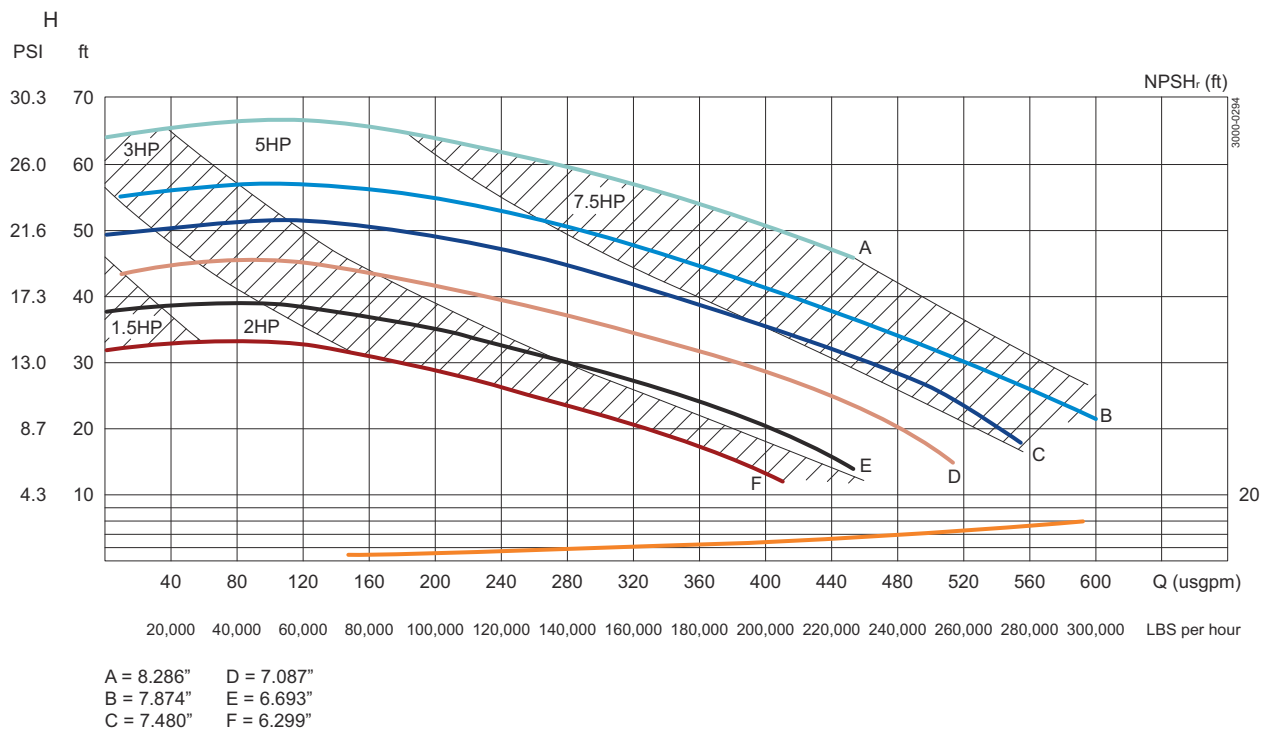
Pump outlet, dia.: 4", DN 100

Performance data refer to water at 68 °F

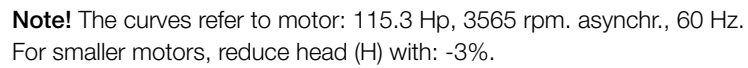


Note! The curves refer to motor: 8.5 Hp, 1750 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with 5%.

DO NOT FORGET THE SAFETY FACTOR



Motor:	3600 rpm. synchr.
Tolerance:	±5%
Impeller, Max. dia.:	11.024"
Impeller, Min. dia.:	7.874"
Pump inlet, dia.:	4", DN 100
Pump outlet, dia.:	3", DN 80
Performance data refer to water at 68 °F	



3000-0278

Head (H)
 PSI: 217.0, 173.6, 130.2, 86.8, 43.4, 21.7
 ft: 500, 400, 300, 200, 100, 50

Flow Rate (Q)
 USGPM: 200, 400, 600, 800, 1,000, 1,200, 1,400
 LBS per hour: 100,000, 200,000, 300,000, 400,000, 500,000, 600,000, 700,000

Efficiency Curves:
 30HP, 40HP, 50HP, 60HP, 75HP, 100HP

Operating Range: Shaded area between 100HP and 30HP curves.

Points A through I: Marked on the efficiency curves.

Point	NPSH _r (ft)
A	11.024"
B	10.630"
C	10.236"
D	9.843"
E	9.449"
F	9.055"
G	8.661"
H	8.268"
I	7.874"

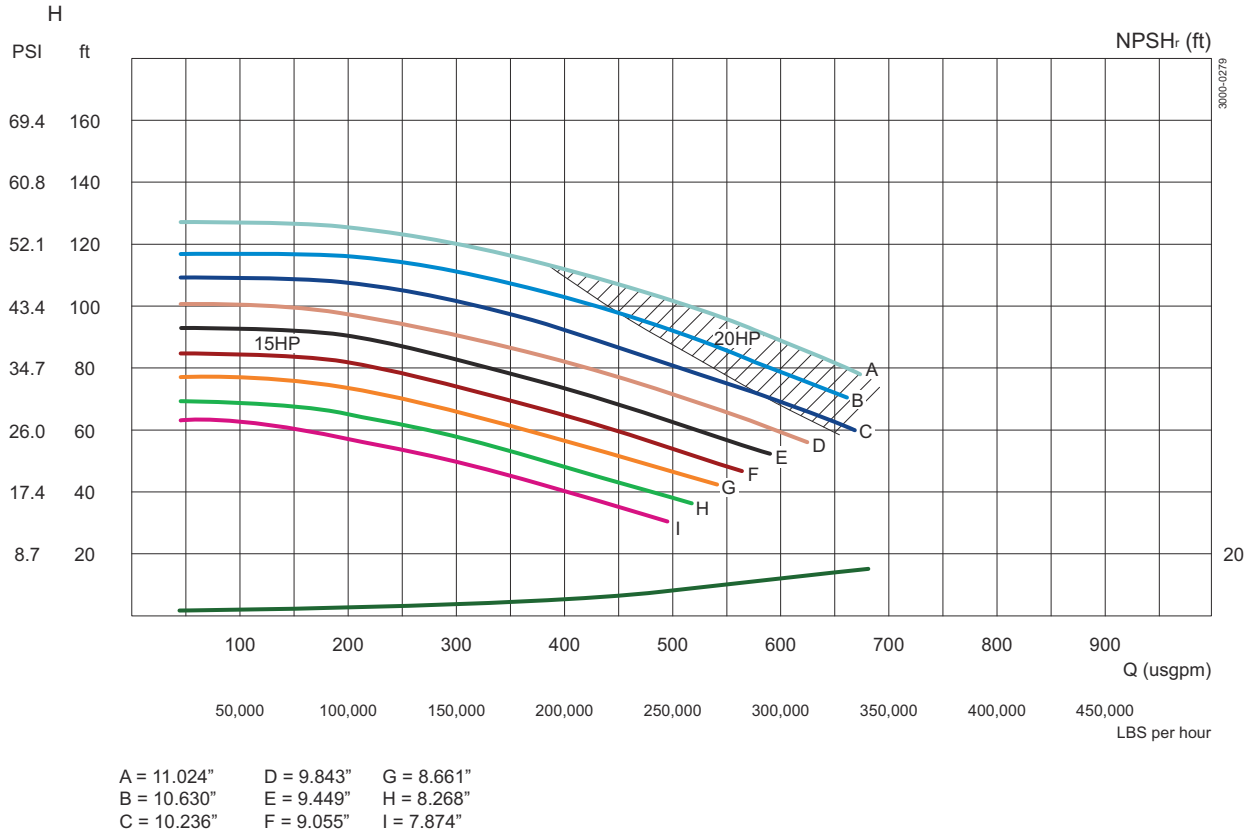
LKHPF-70, 60 Hz

Motor:	1800 rpm. synchron.
Tolerance:	±5%
Impeller, Max. dia.:	11.024"
Impeller, Min. dia.:	7.874"
Pump inlet, dia.:	4", DN 100
Pump outlet, dia.:	3", DN 80
Performance data refer to water at 68 °F	



Note! The curves refer to max. motor: 22.8 Hp, 1750 rpm. asynchr., 60 Hz.

DO NOT FORGET THE SAFETY FACTOR



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