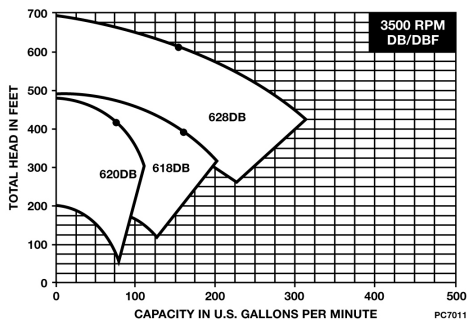
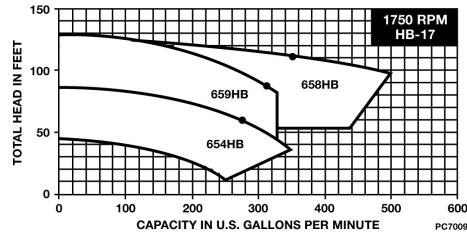
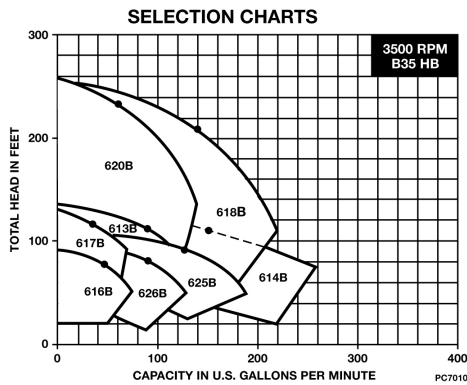
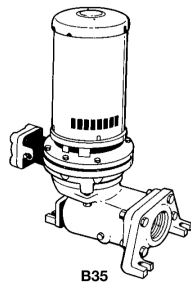
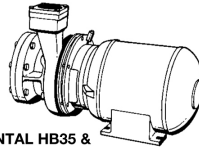




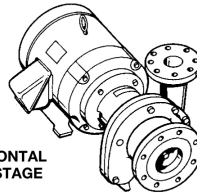
• Indicates 2' NPSH Requirement position



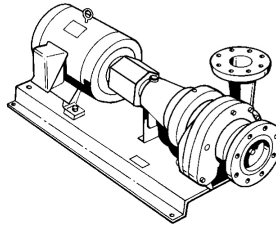
B35
VERTICAL FLANGE MOUNTED
OR VERTICAL FOOT MOUNTED



HORIZONTAL HB35 &
HORIZONTAL HB17



HORIZONTAL
DB 2-STAGE



DB-F BASE MOUNTED HORIZONTAL 2-STAGE

CURVES

S-649 - S-654C

Domestic® Pump

Series B35™, HB35, HB17, DB and DB-F

2' NPSH CENTRIFUGAL PUMP



Bell & Gossett
a xylem brand

TABLE OF CONTENTS

3500 RPM PUMPS

MODEL	DISCHARGE (inches)	SUCTION* (PF Flange or PVF/HB NPT)	MAX. IMPELLER (inches)	PAGE
613PF/PVF-B, HB-35	2	"A" (2 ¹ / ₂)	5 ⁹ / ₁₆	S650B
614PF/PVF-B, HB-35	2 ¹ / ₂	"D" (4)	5 ⁹ / ₁₆	S650B
616PF/PVF-B	1 ¹ / ₂	"A" (2)	4 ⁹ / ₁₆	S650B
617PF/PVF-B	1 ¹ / ₂	"A" (2)	5 ⁹ / ₁₆	S650B
618PF/PVF-B, HB-35	2	"D" (4)	7 ⁹ / ₁₆	S651B
620PF/PVF-B, HB-35	1 ¹ / ₂	"A" (2 ¹ / ₂)	7 ⁹ / ₁₆	S651B
625PF/PVF-B, HB-35	2	"D" (4)	4 ⁹ / ₁₆	S651B
626PF/PVF-B	2	"A" (2 ¹ / ₂)	4 ⁹ / ₁₆	S651B
618DB/DB-F	2 ¹ / ₂	4	7 ⁹ / ₁₆	S653B
620DB/DB-F	2	3	7 ⁹ / ₁₆	S653B
628DB/DB-F	3	4	9	S653B

1750 RPM PUMPS

654HB/17	3	6	8 ¹ / ₁₆	S652B
658HB/17	3	6	10 ¹ / ₁₆	S652B
659HB/17	3	6	10 ¹ / ₁₆	S652B

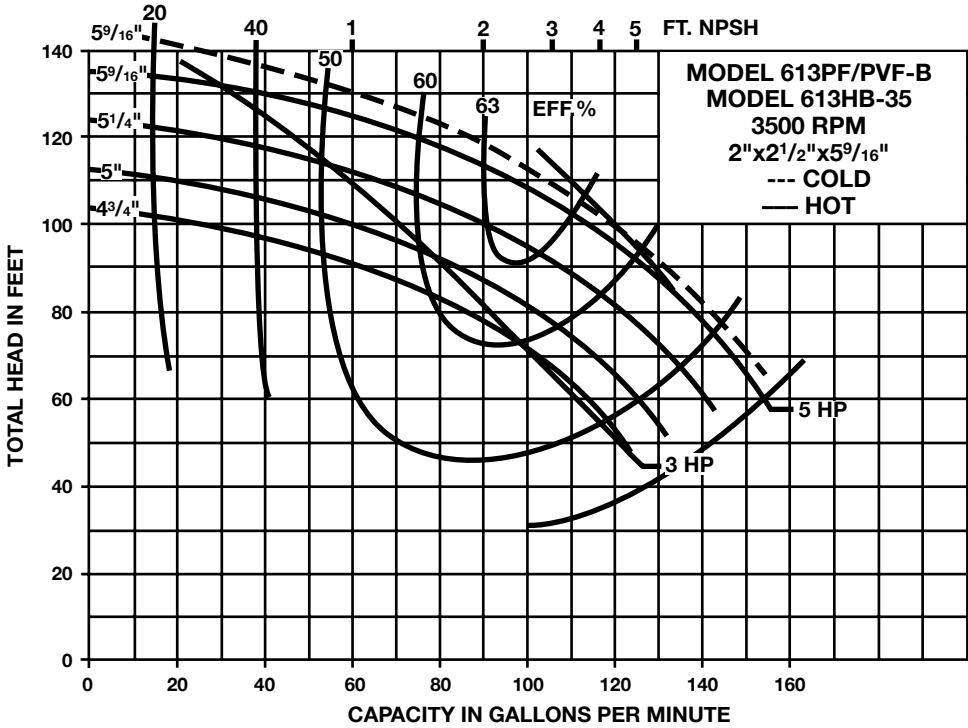
* Refer to submittal S421 for detailed dimensions on Style PF suction flanges
 HB-35 and HB-17 Suction connection is a 125# ASA flange
 DB and DB-F suction connections are 125# ASA flanges, discharge connections are
 250# ASA flange (except 628-400# ASA flange)

PERFORMANCE CURVE CHARACTERISTICS

- Impellers are trimmed to the nearest 1/16" increment to supply required capacity. Responsibility for final impeller sizing remains with Xylem Bell & Gossett.
- Maximum Suction Pressure for pumps is 35 psi. Maximum Water Temperature is 250 °F.
- Horsepower curves do not include motor service factor. Typical motor service factors are as follows:
 ODP Enclosure – 1.15 Minimum (up to 1.75 are used when available.)
 TEFC Enclosure – 1.15 Minimum (up to 1.75 are used when available.)
 Exp. Proof Enc. – 1.0
- NPSH Required is provided for cold (120°F and below) and hot water (above 120°F) applications. NPSH Required is determined by utilizing a vacuum pump to equalize atmospheric pressure and vapor pressure and then measuring the required static head of water for non-cavitating pump operation.
- Pumps available from stock are indicated on the respective performance curve by their part number.
- Pumps supplied for 45 GPM or less may include external orificing to facilitate matching of design conditions and to limit maximum motor loads. The orifice extends the pump discharge by 3 1/2". Pumps for 15 GPM or less will be orificed and the orifice will have a 3/4 NPT discharge. Orificing is at the discretion of B&G.

Curve Chart S650C

Series B Group of 2 Ft. N.P.S.H. CENTRIFUGAL PUMP Performance Curves



Available in
5 Hp only

**Performance
Characteristic
Curves**

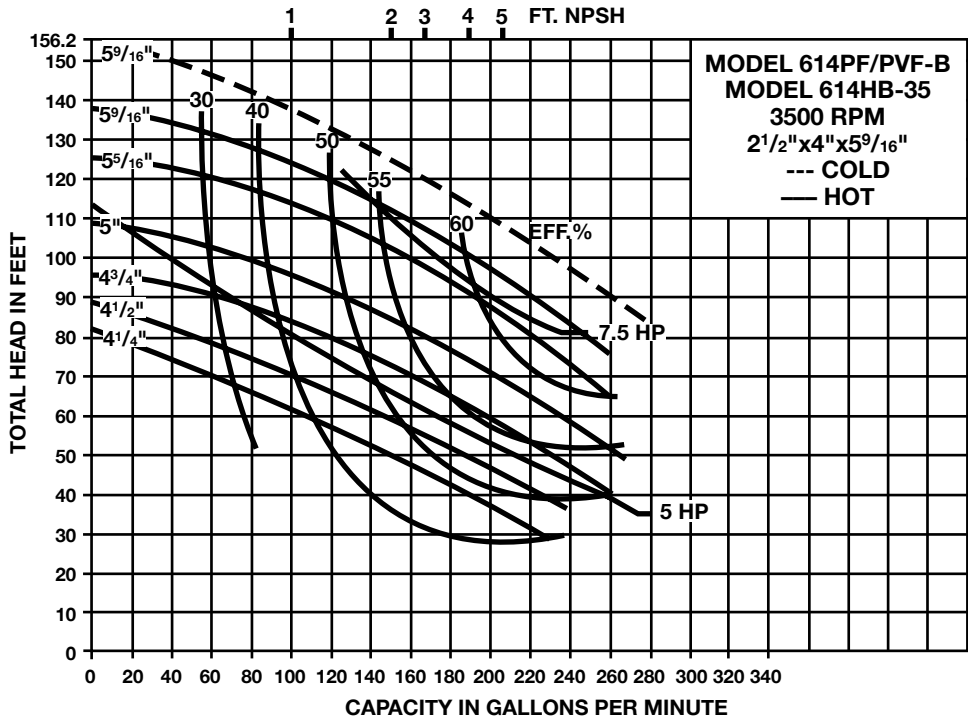
Impellers are trimmed to nearest 1/16" dia. Final selection for impeller sizing remains with the factory.

NPSH shown across top of curve is in ft. of water head.

Horsepower curves do not include service factor.

Max. suction pressure 35 psig.

Max. water temp. 250°F.



**Performance
Characteristic
Curves**

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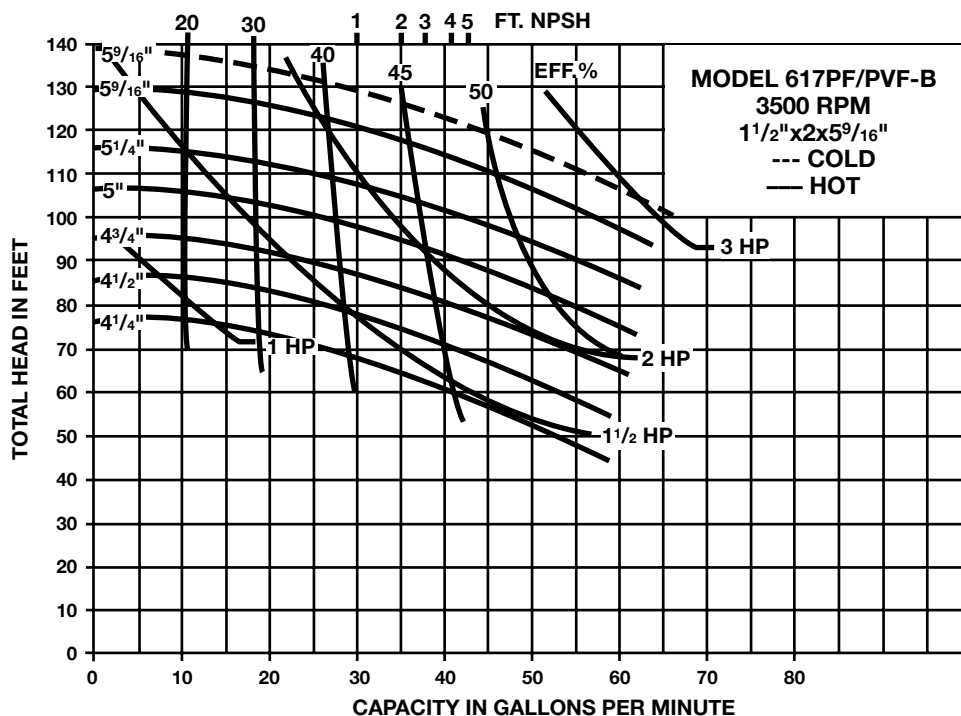
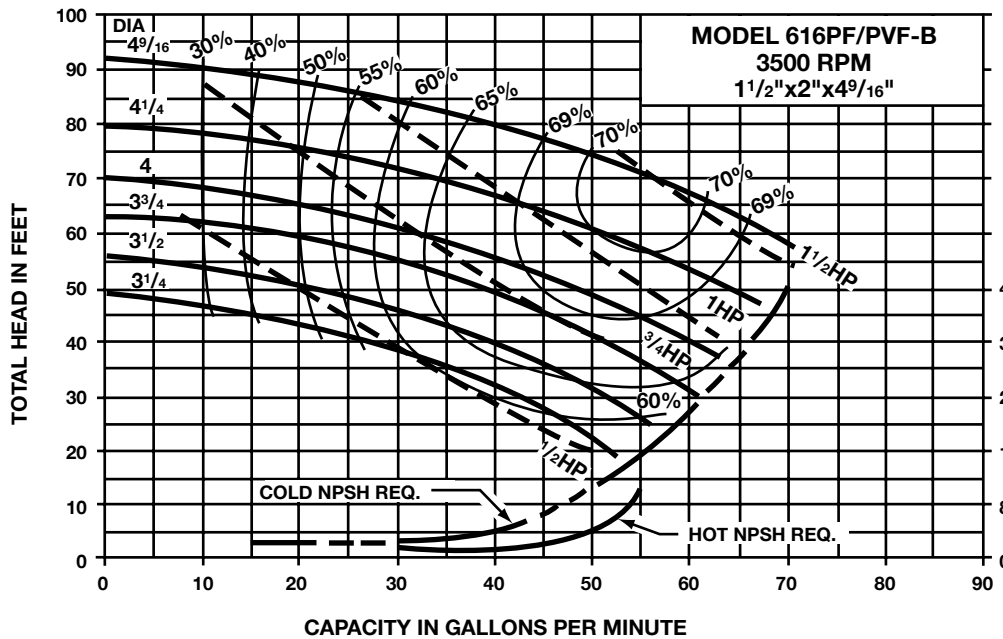
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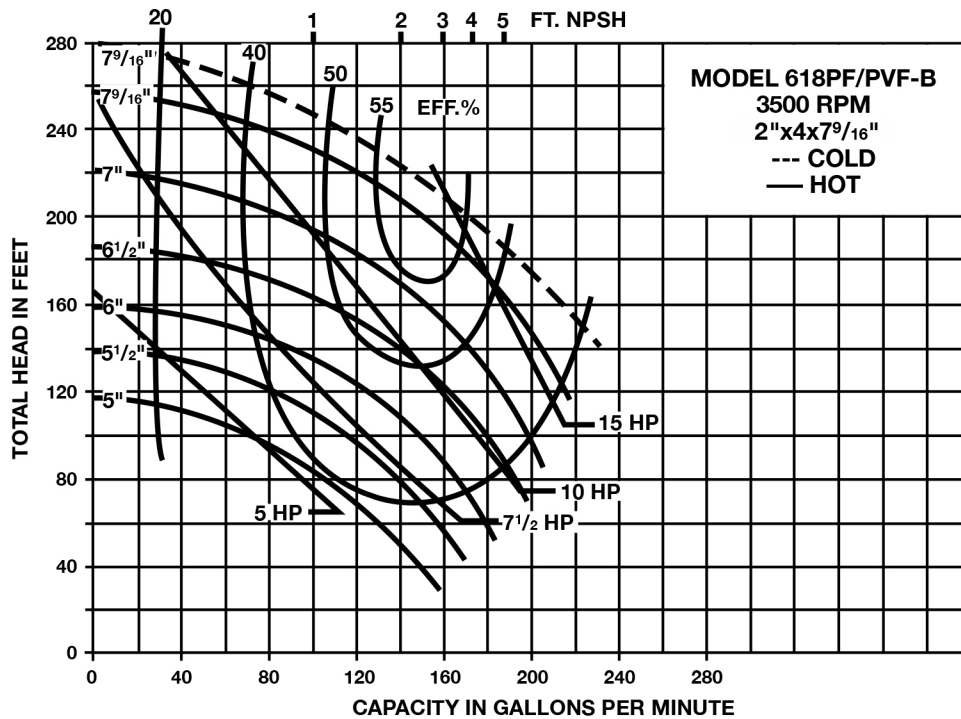
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Series B Group of 2 Ft. N.P.S.H. CENTRIFUGAL PUMP Performance Curves



Curve Chart S651C

Series B Group of 2 Ft. N.P.S.H. CENTRIFUGAL PUMP Performance Curves



Performance Characteristic Curves

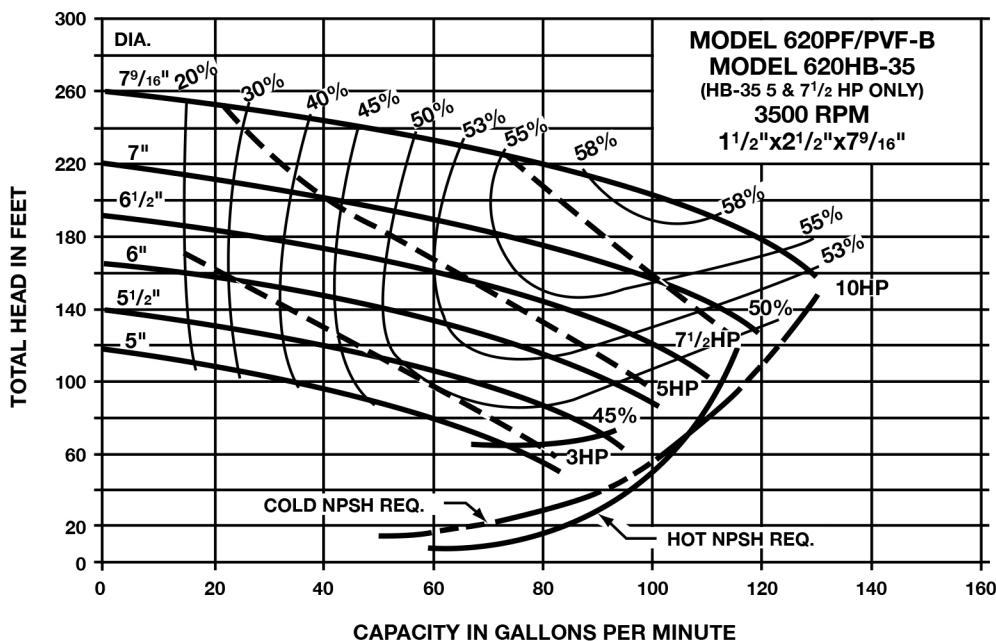
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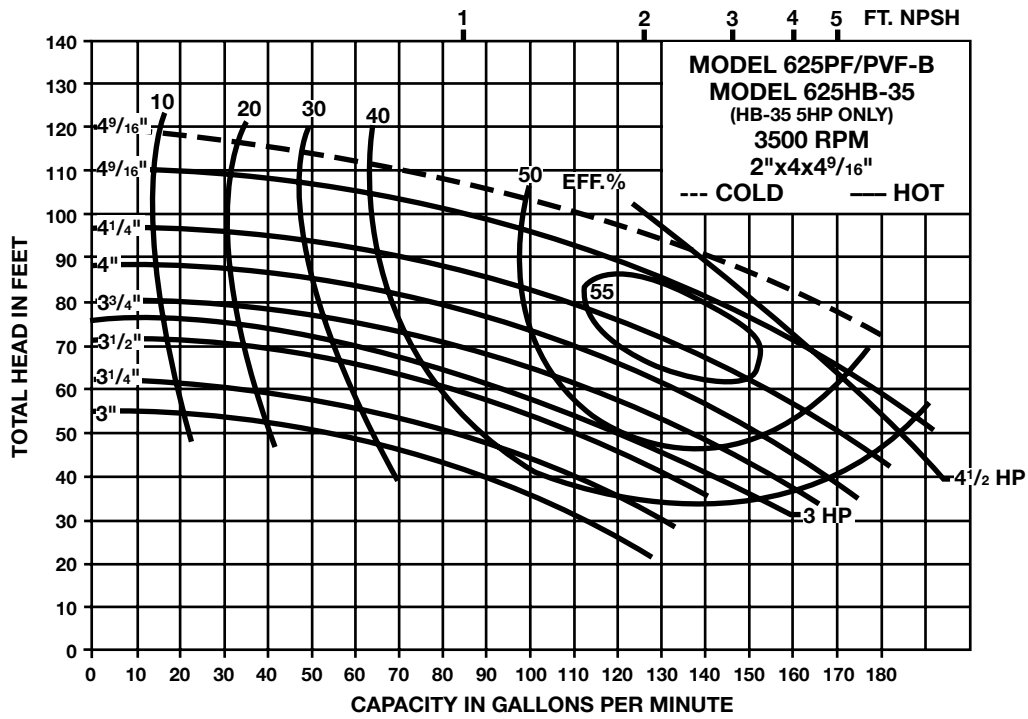
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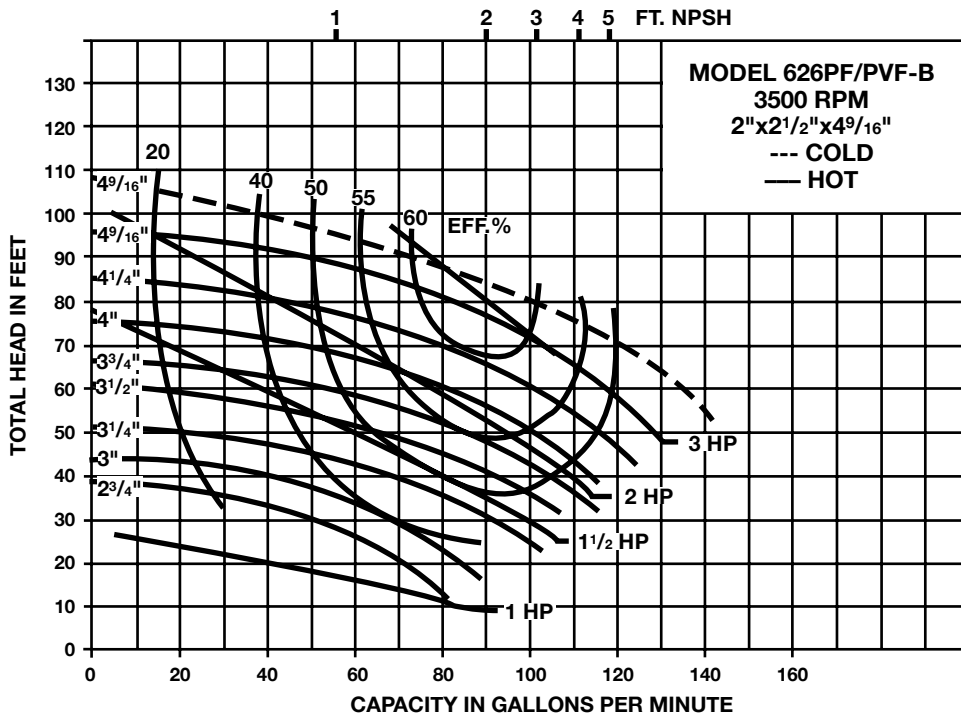
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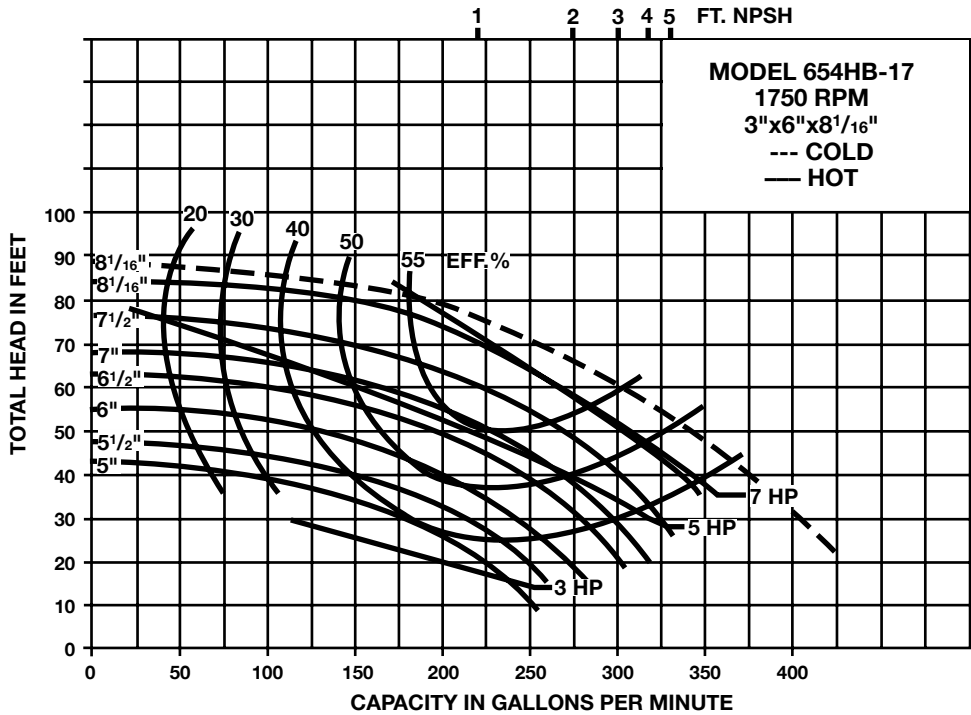
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Curve Chart S652C

Series B Group of 2 Ft. N.P.S.H. CENTRIFUGAL PUMP Performance Curves



**Performance
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Curves**

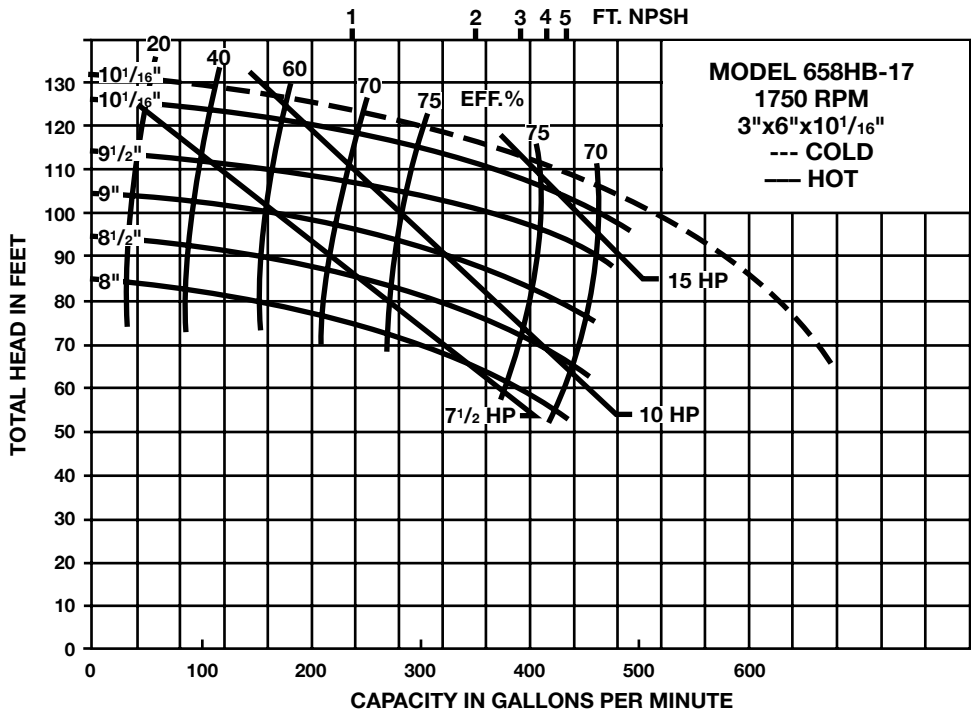
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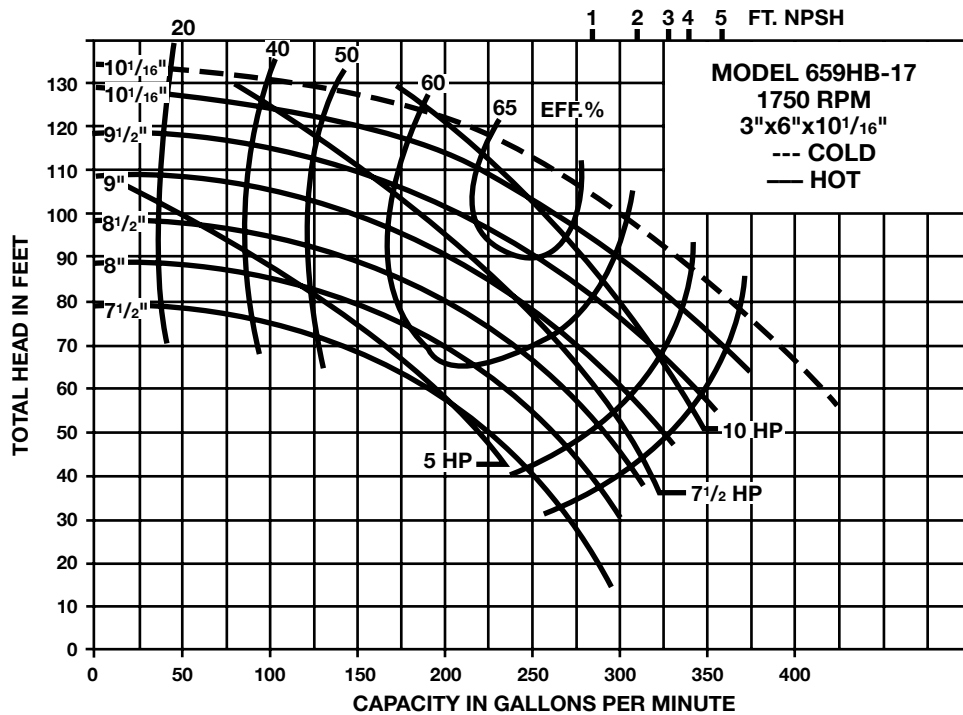
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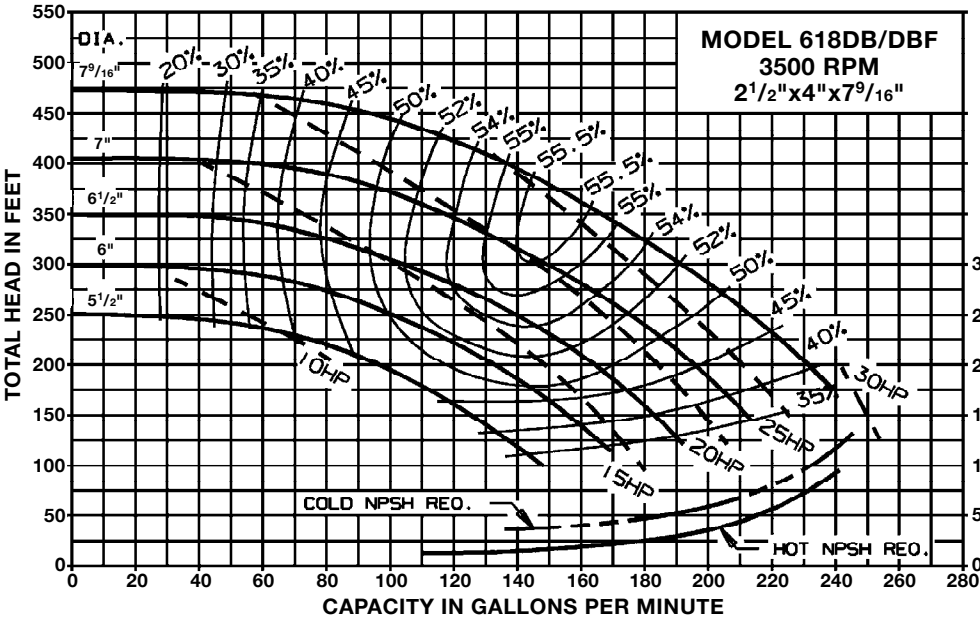
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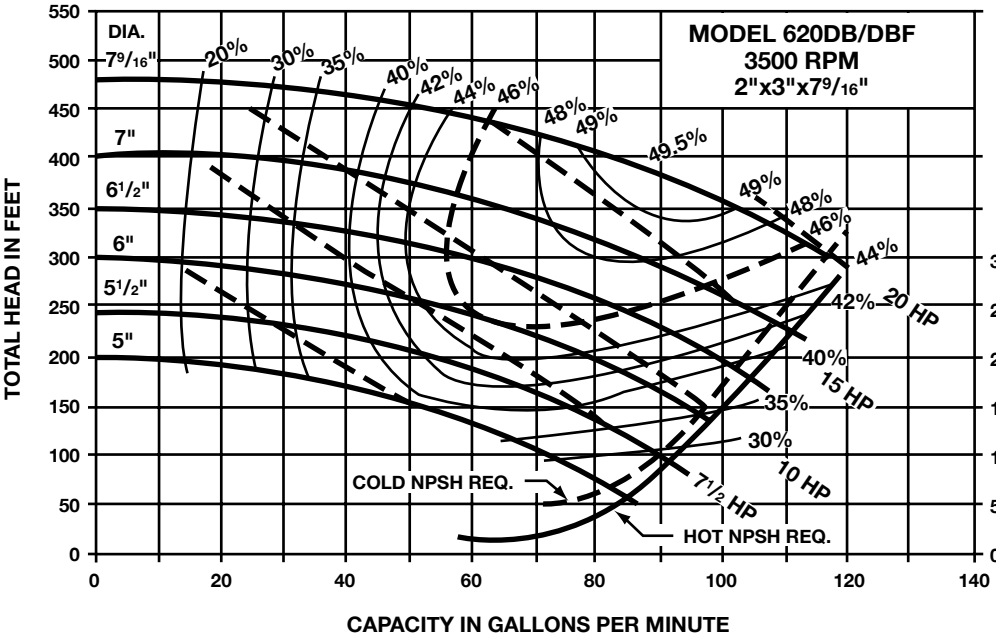
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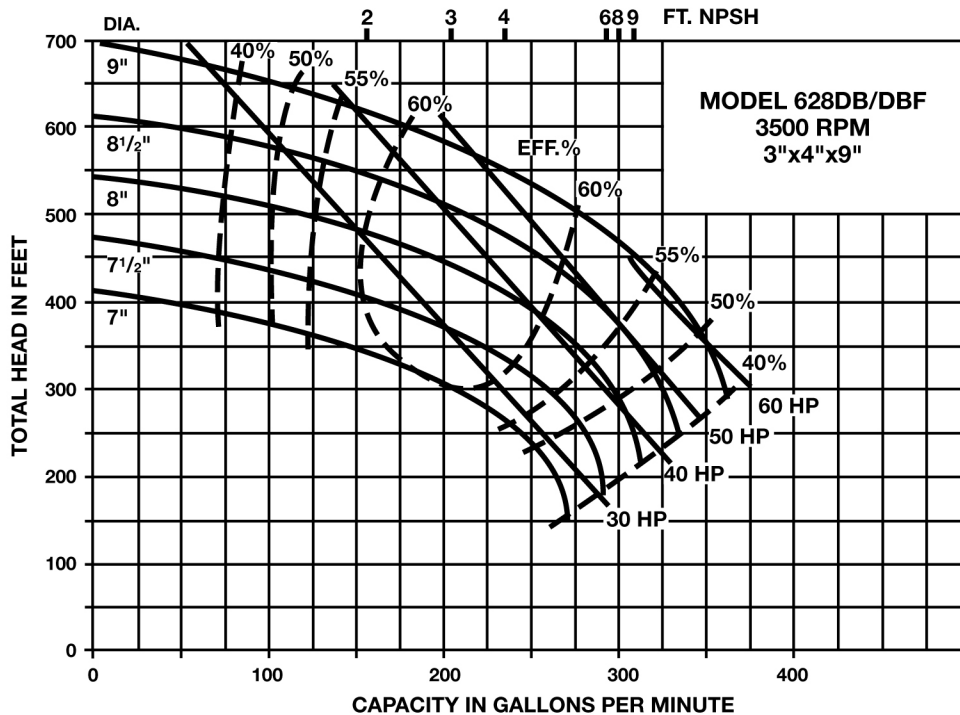
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Xylem |'zīləm|

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

We're a global team 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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Fax: (847) 965-8379
www.bellgossett.com

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