



Department of Public Works & Transportation • Water & Wastewater Services
WATER & WASTEWATER ENGINEERING DIVISION
 2555 West Copans Road • Pompano Beach, Florida 33369 • 954-831-0745 • FAX 954-831-0798/0925

WWS STANDARD LIFT STATION PUMPS

Date Issued: May 2, 2012
 Date Last Issued: October 8, 2008
 Date First Issued: January 3, 2006

This document approved by the Broward County Water & Wastewater Services Technical Standards Committee.


 Steven W. Uhrick, P.E, Chair

Water and Wastewater Services (WWS) uses a suite of standard pumps for its wastewater lift stations. See *Product Specifications* for detailed requirements for these pumps. This document contains information on the current set of pumps which may change with each new procurement contract.

Electrical service must be three phase. 240 volt service is acceptable for pumps 20 horsepower and under, but 480 volt service is strongly preferred. 480 volt service is required above 20 horsepower.

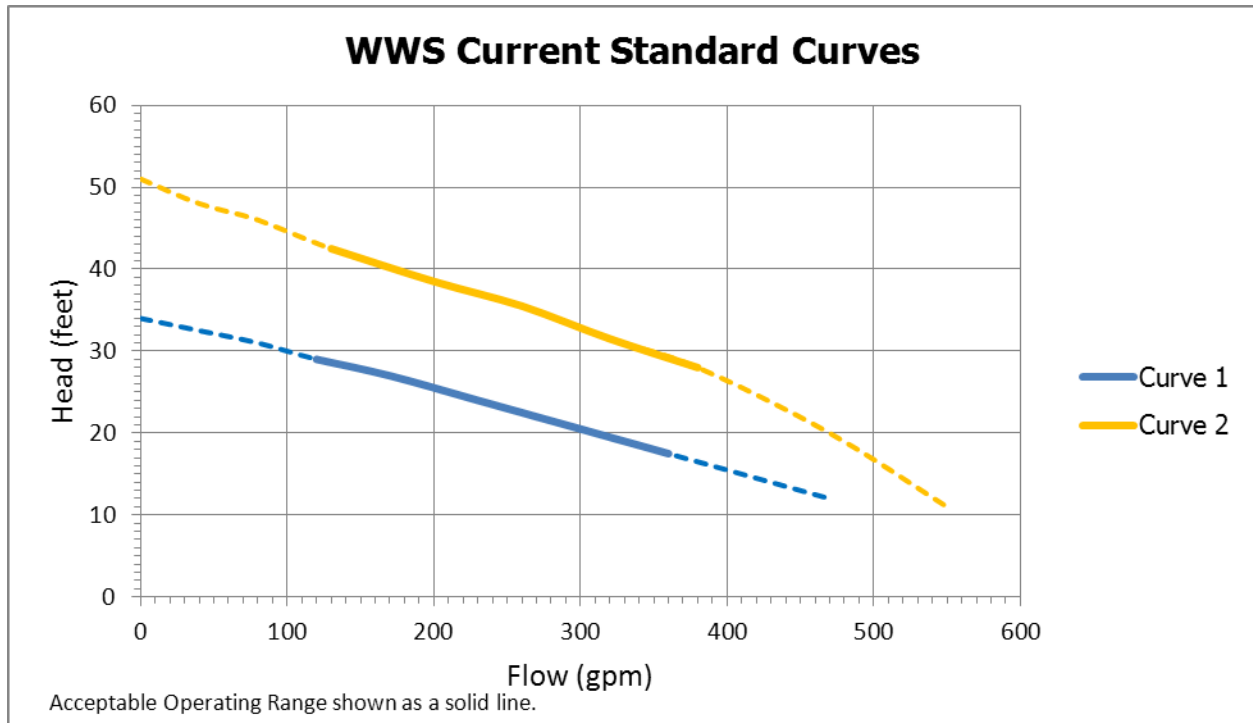
The Acceptable Operating Range is 40% to 120% of the flow at the best operating point.

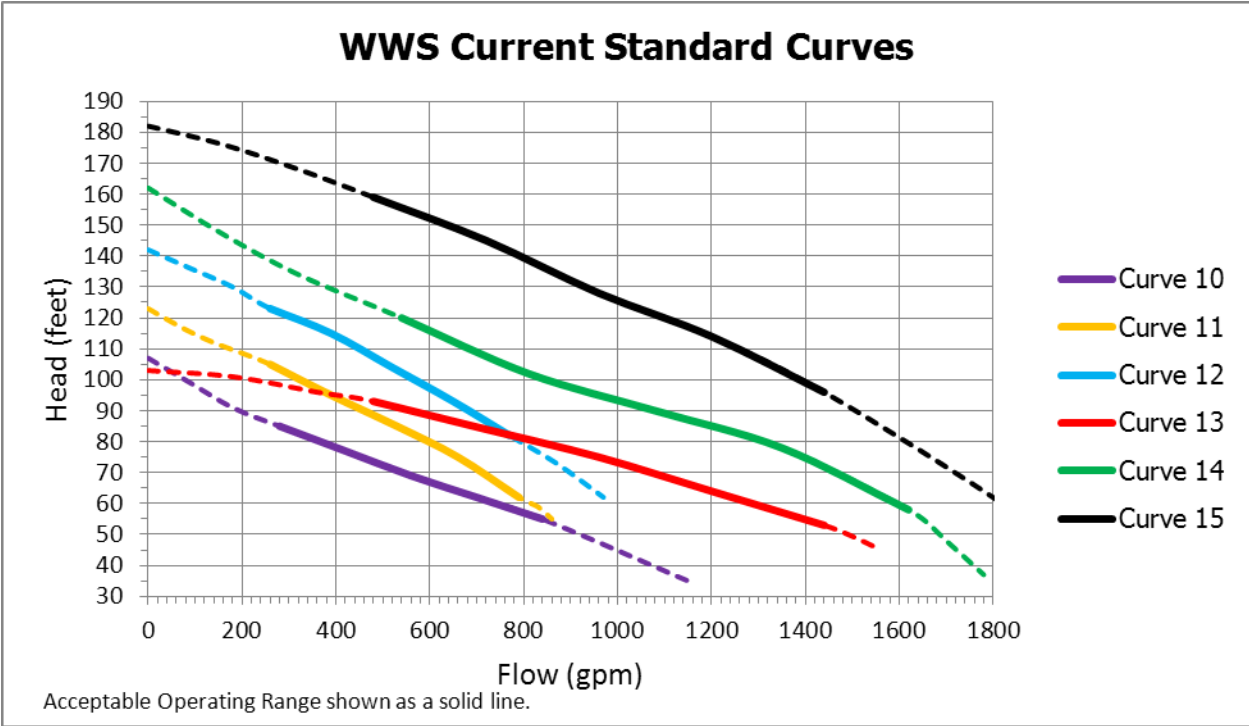
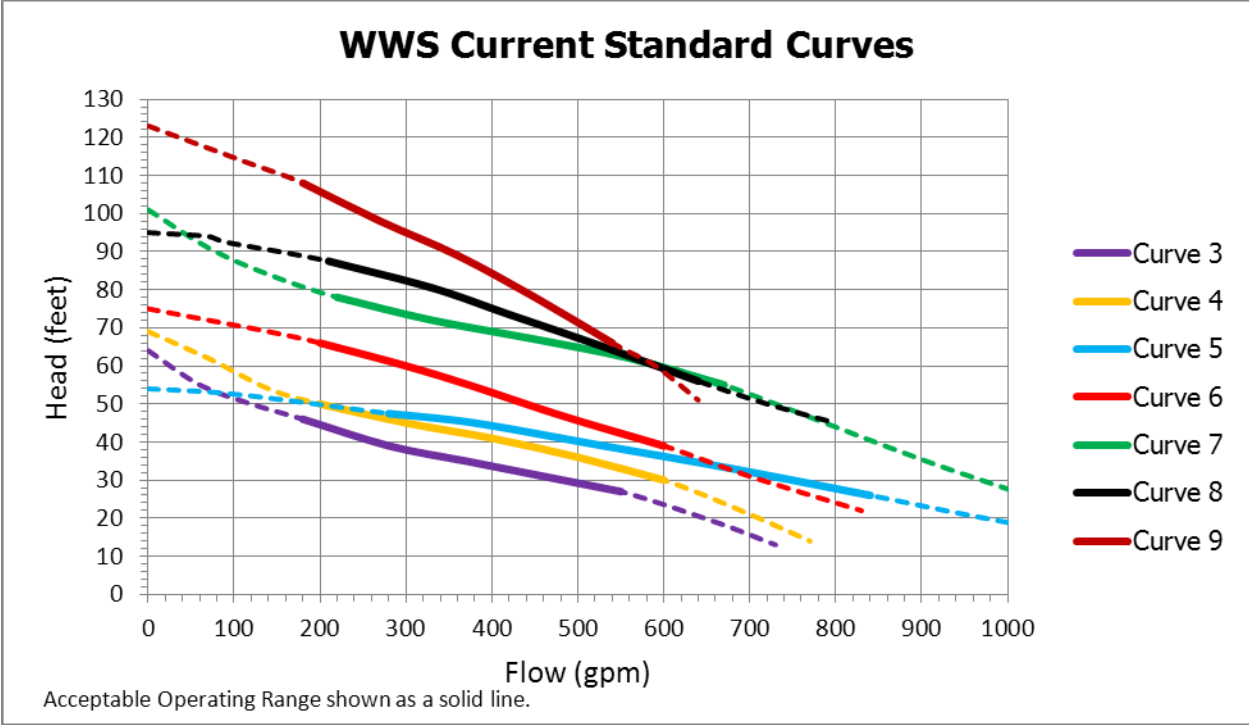
The impeller shown is the only impeller allowed. For curves 14 and 15 only, the impeller may be trimmed to meet specific design considerations. All other impellers must be supplied untrimmed.

WWS Current Standard Pumps

Curve	Acceptable Operating Range (gpm)	Manufacturer	Model	Impeller	Horsepower
1	120-360	Ebara	100DLBKFMU62.24 (480v) 100DLBKFMU62.22 (240v)	DLK-C614-9203	3
2	130-380	Ebara	100DLMBKFMU63.74 (480v) 100DLMBKFMU63.72 (240v)	DLMK-C607-9203	5
3	180-550	HOMA	AMX434-193/5.5T/CFM (480v) AMX193/5.5T/CFM (240v)	7 - 5/8"	5.5

Curve	Acceptable Operating Range (gpm)	Manufacturer	Model	Impeller	Horse-power
4	200-600	HOMA	AMX206/7.5T/CFM (480v) AMX206/7.5T/CFM (240v)	8 - 1/8"	7.5
5	280-840	Ebara	100DLBKFMU67.54 (480v) 100DLBKFMU67.52 (240v)	DLMK-C615-9203	10
6	200-600	Ebara	100DLMBKFMU67.54 (480v) 100DLMBKFMU67.52 (240v)	DLMK-C609-9203	10
7	220-670	HOMA	AMX230/20P/CFM (480v) AMX230/20P/CFM (240v)	9 - 3/8"	20
8	210-640	Ebara	100DLMBKFMU6114 (480v) 100DLMBKFMU6112 (240v)	DLMK-C610-9203	15
9	180-540	Ebara	80DLCMBKFMU6114 (480v) 80DLCMBKFMU6112 (240v)	DLMK-C606-9203	15
10	280-840	HOMA	AMX260/20P/CFM (480v) AMX260/20P/CFM (240)	10 - 3/8"	20
11	260-790	Ebara	100DLMBKFMU6154 (480v) 100DLMBKFMU6152 (240v)	DLMK-C611-9203	20
12	260-770	Ebara	100DLMBKFMU6184 (480v)	DLMK-C612-9203	25
13	480-1440	Ebara	150DLBKFMU6224 (480v)	DLK-C626-9203	30
14	540-1620	HOMA	AMX310/39.2F/CFM (480v)	12 - 5/16"	39
15	480-1440	Ebara	150DLBFMU6454 (480v)	DLY-C602-9203	60





PUMP MANUFACTURER'S CURVES
(see following pages)

Ebara Submersible Sewage Pump

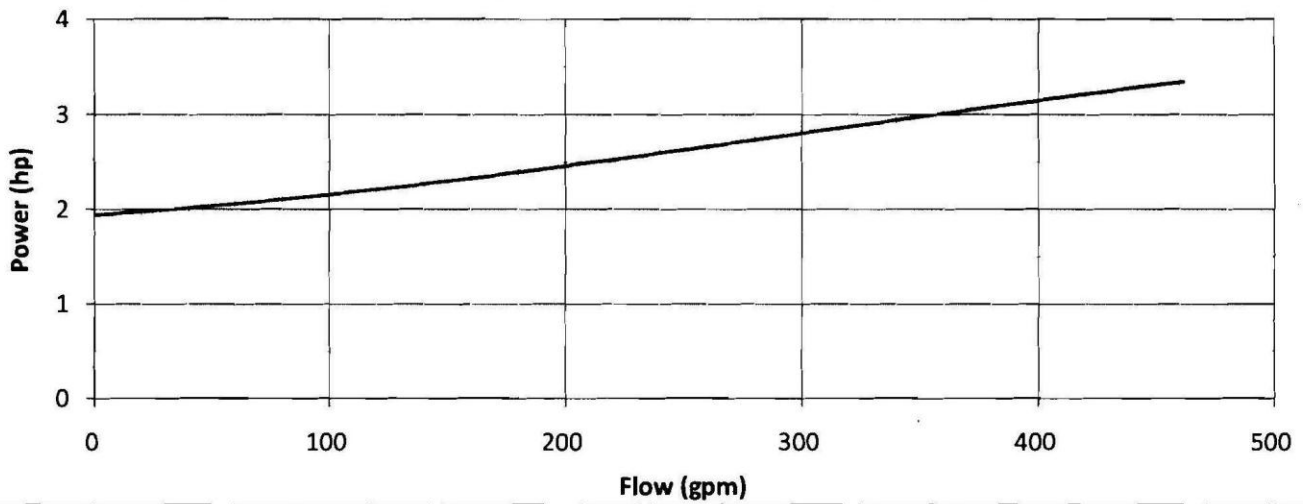
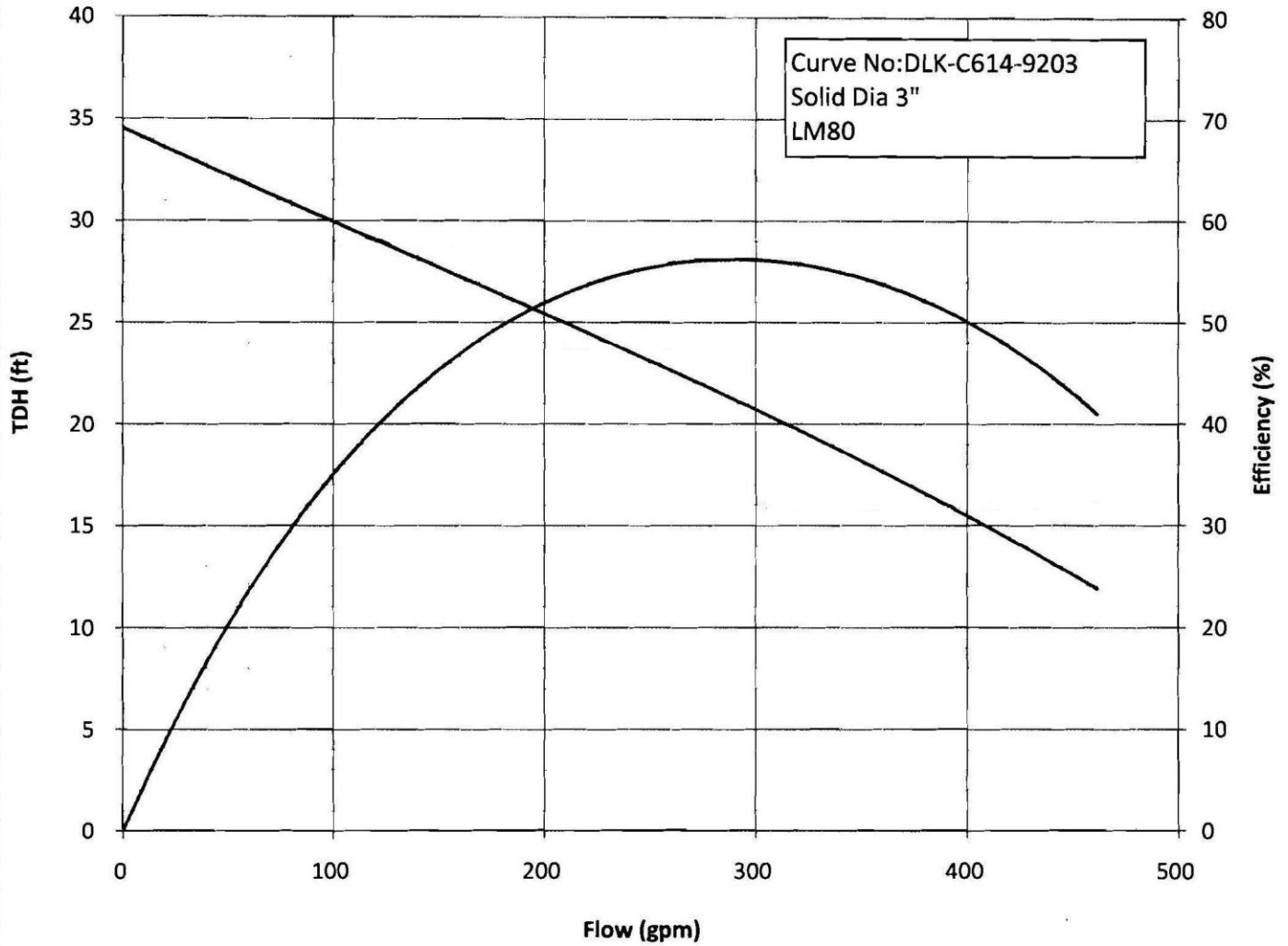
Performance Curve 1

Model: 100DLBKFMU62.22/4

HP: 3

FLA: 9.2/4.6

Date: 3/11/11



Ebara Submersible Sewage Pump

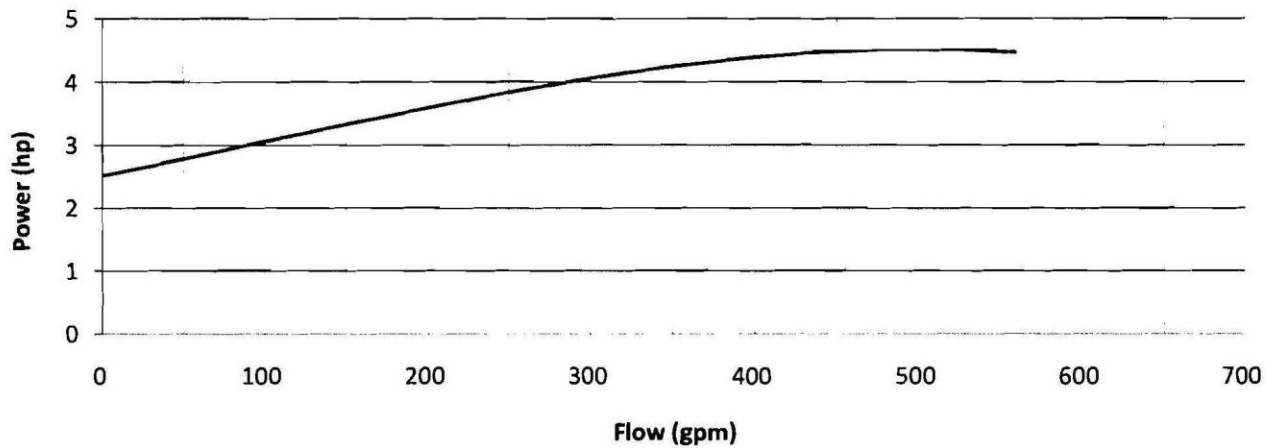
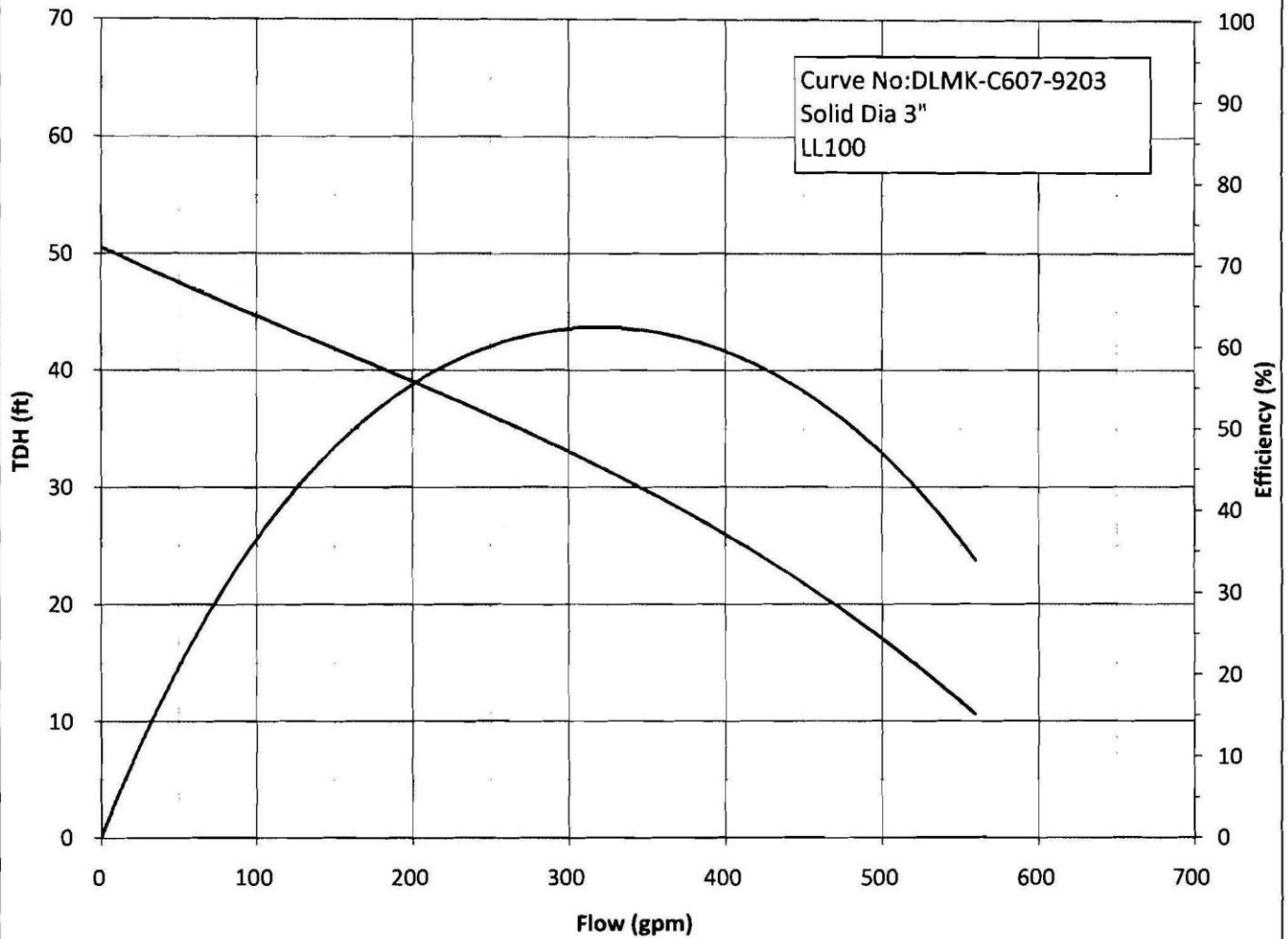
Performance Curve 2

Model: 100DLMBKFMU63.72/4

HP: 5

FLA: 14.2/7.1

Date: 7/21/10





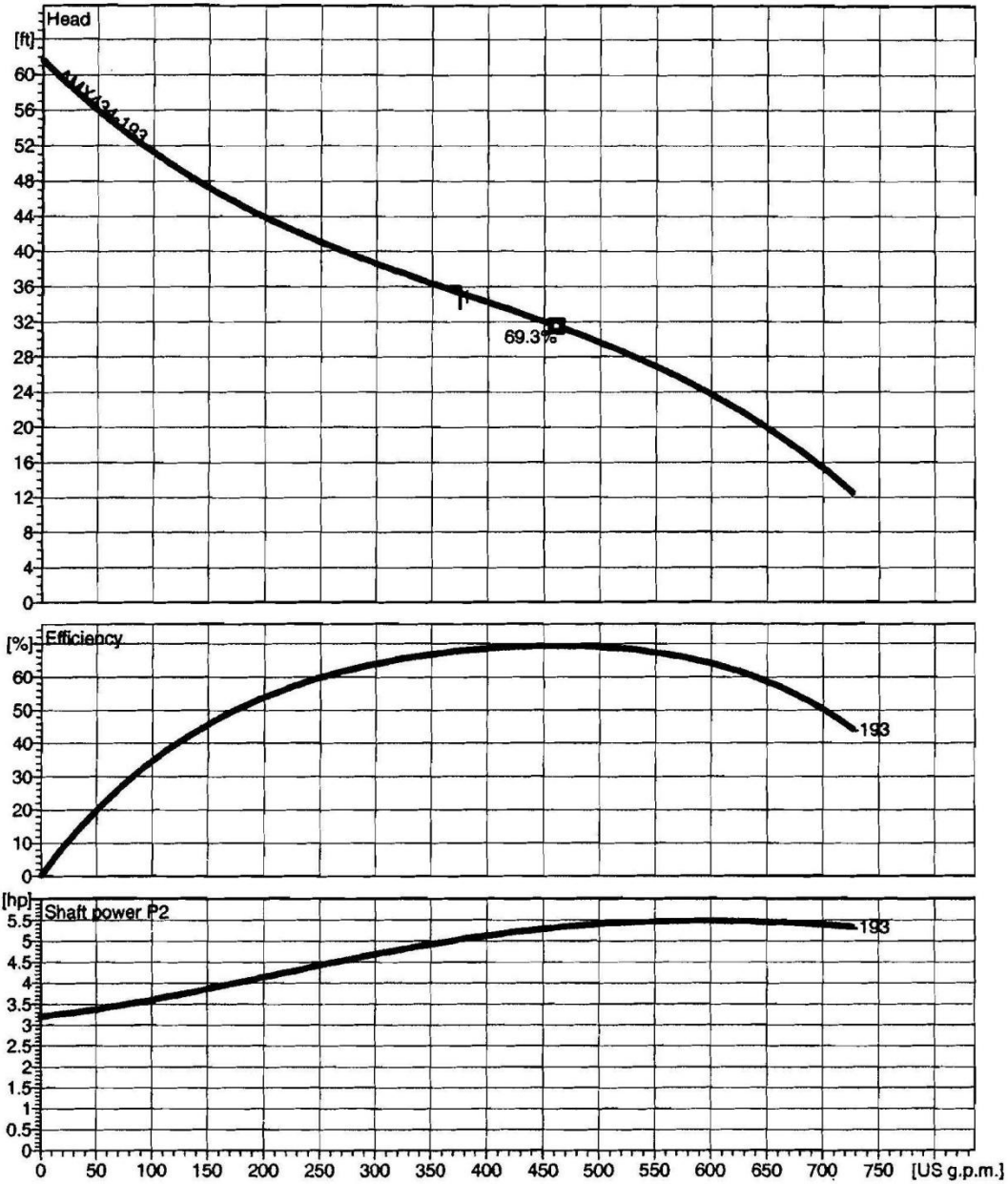
CURVE 3

Performance Curve

AMX434-193/5,5T/C

Impeller type: Single channel impeller	Solid size 3 inch	Ø:	Max. Ø: 8¹/₈"	Min. Ø: 5⁹/₁₆"	Sel. Ø: 7⁷/₈"
Speed: 1750 rpm	Frequency: 60 Hz	Duty point: Q = 375 US g.p.m.	H = 36 ft		Suction port: 4" ANSI
Power data referred to: Water, pure [100%]; 68°F; 62.322lb/ft³; 1.0818E-5ft²/s				Testnorm: ISO 9906	

Curve number:



2.0 - 11.01.2008 (Build 137)

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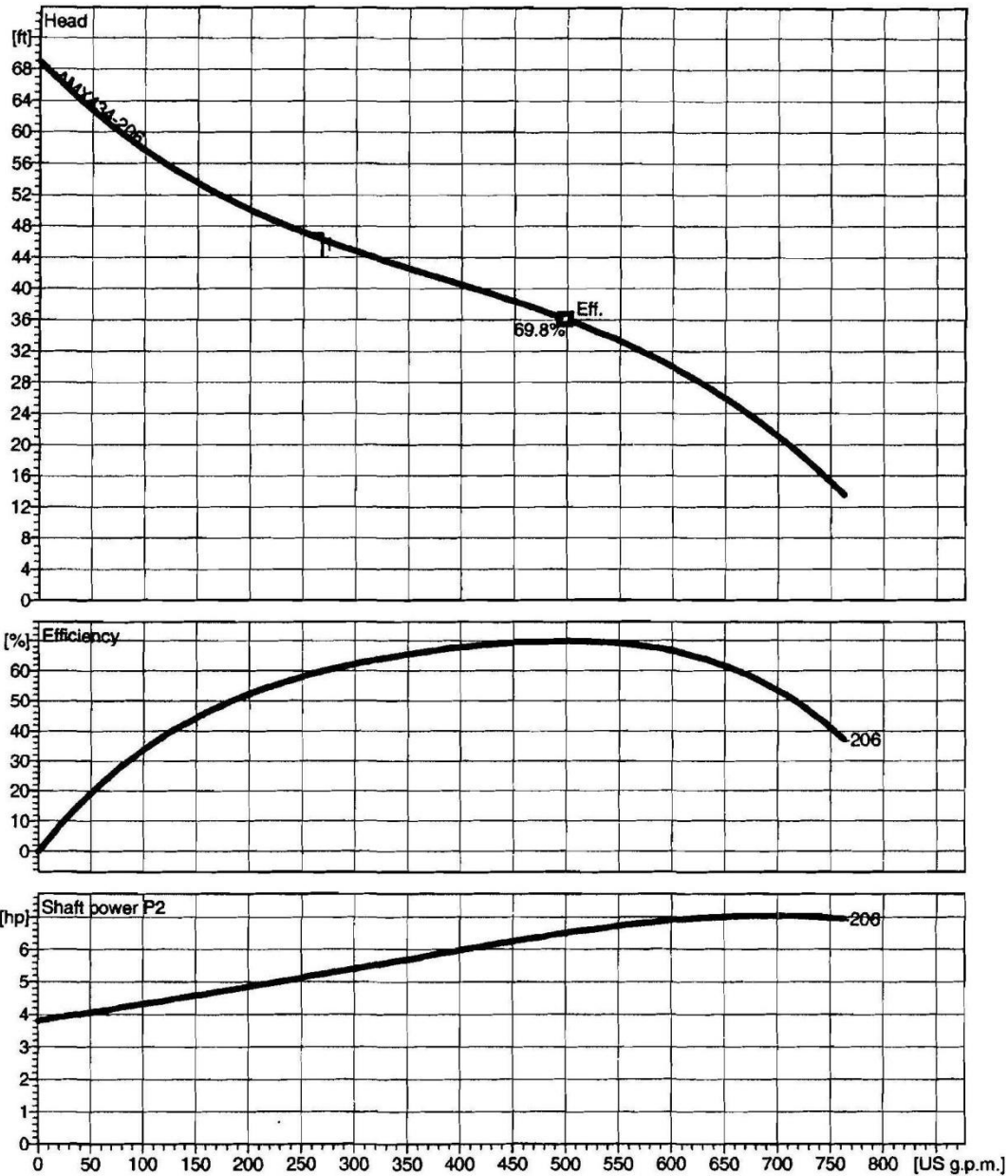
CURVE 4

Performance Curve

AMX434-206/7,5T/C

Impeller type: Single channel Impeller	Solid size 3 inch	Ø:	Max. Ø: 8 1/8"	Min. Ø: 5 7/16"	Sel. Ø: 8 1/8"
Speed: 1750 rpm	Frequency: 60 Hz	Duty point: Q = 268 US g.p.m.	H = 47 ft		Suction port: 4" ANSI
Power data referred to: Water, pure [100%]; 68°F; 62.322lb/ft³; 1.0818E-5ft²/s				Testnorm: ISO 9906	

Curve number:



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Ebara Submersible Sewage Pump

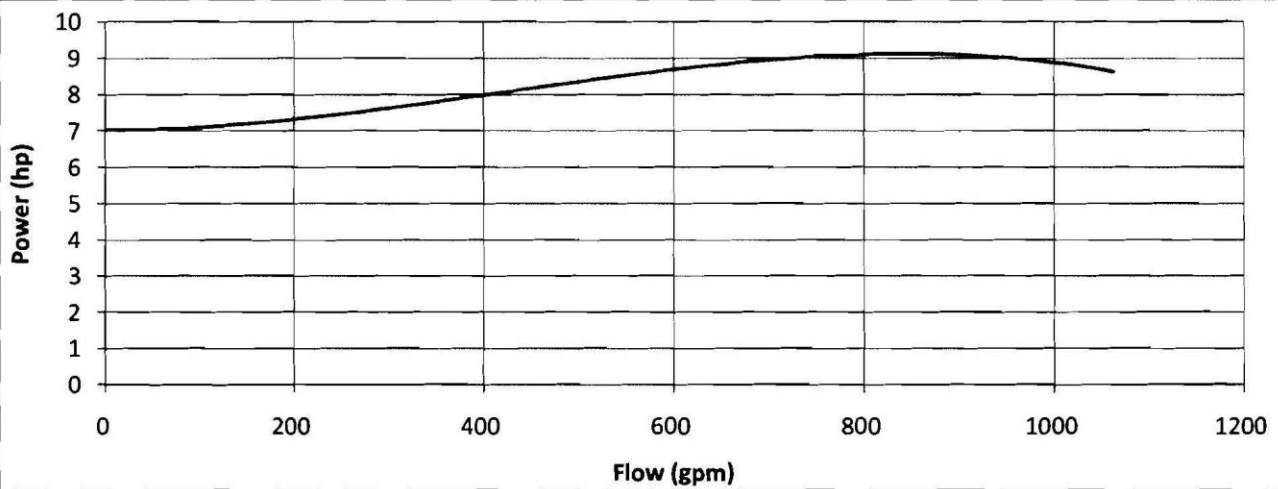
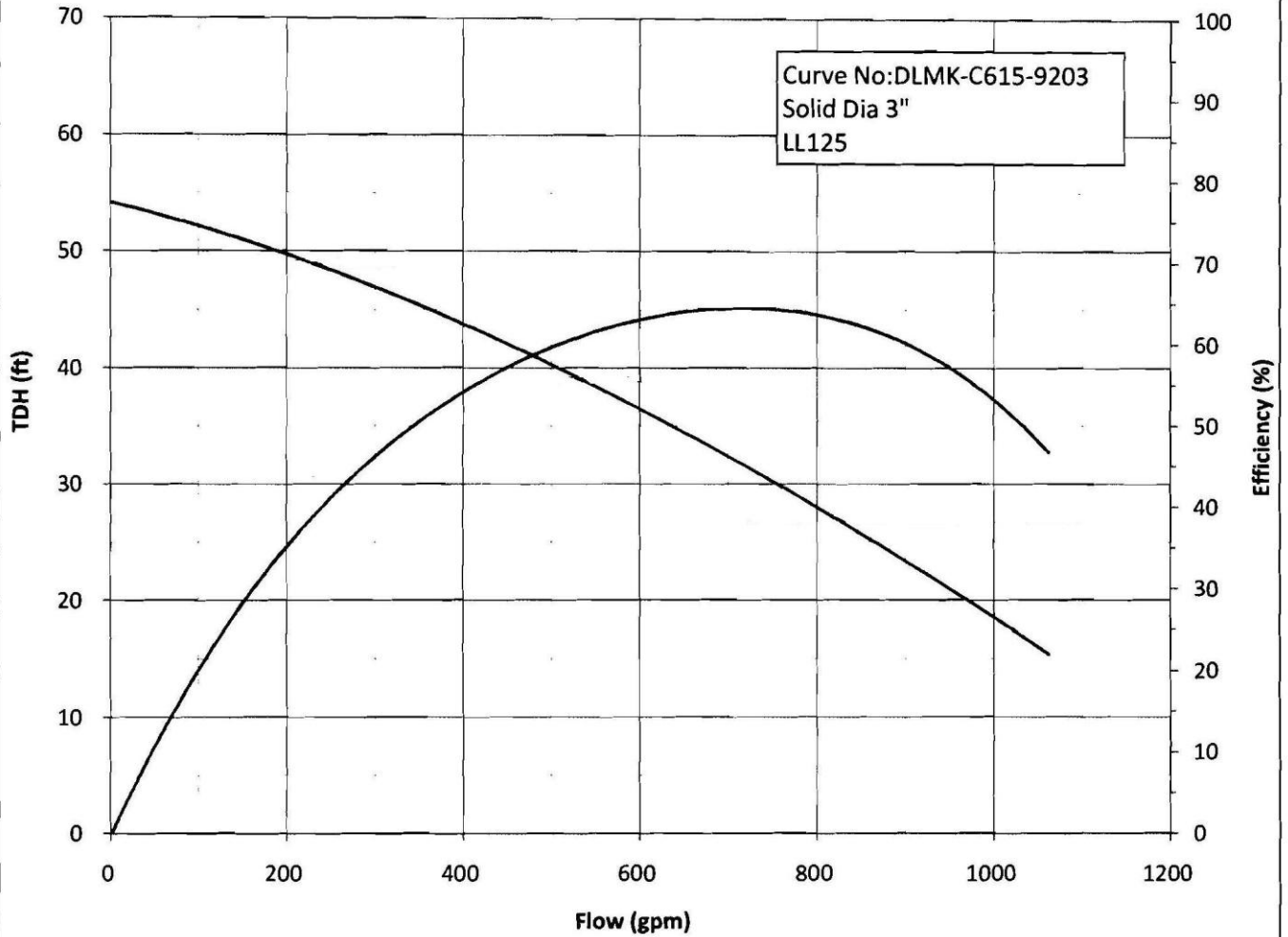
Performance Curve 5

Model: 100DLBKFMU67.52/4

HP: 10

FLA: 29.2/14.6

Date: 7/6/10



Ebara Submersible Sewage Pump

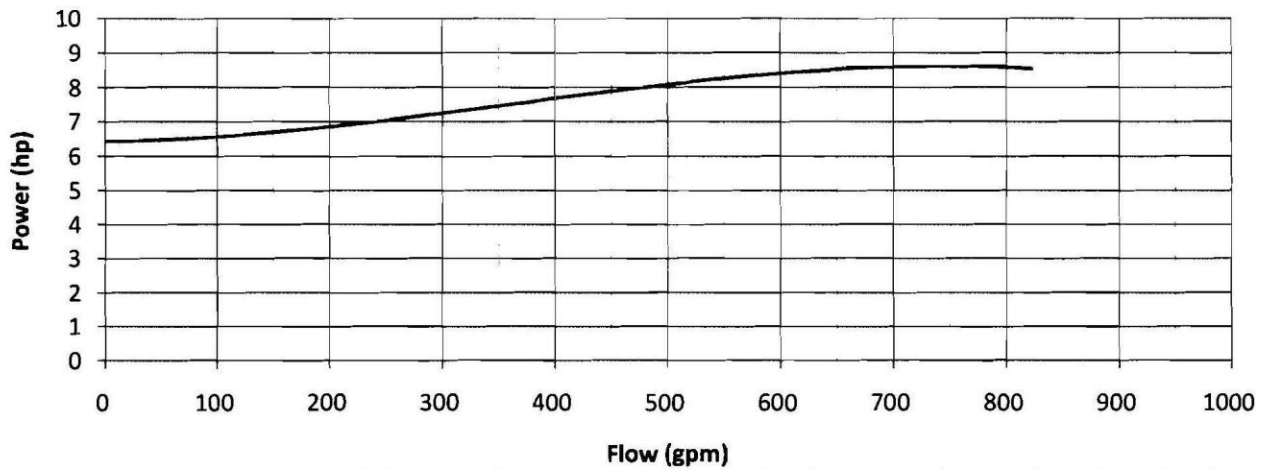
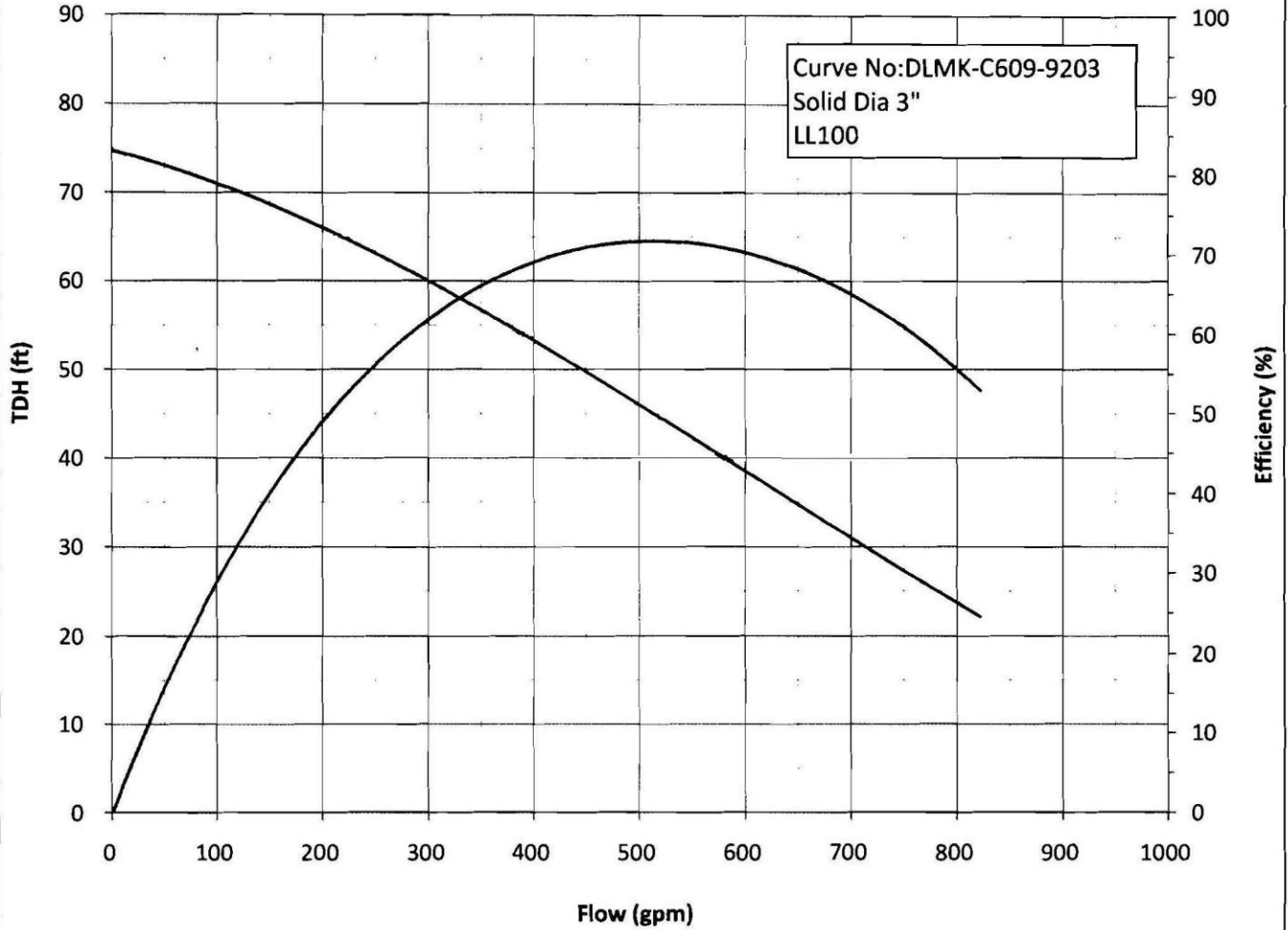
Performance Curve 6

Model: 100DLMBKFMU67.52/4

HP: 10

FLA: 29.2/14.6

Date: 7/1/10





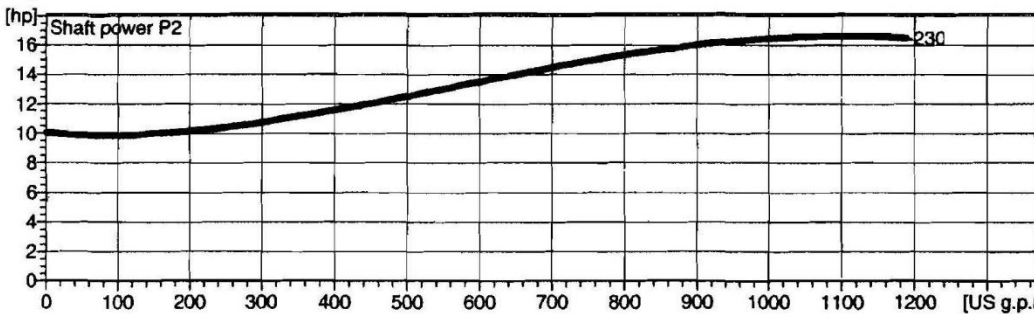
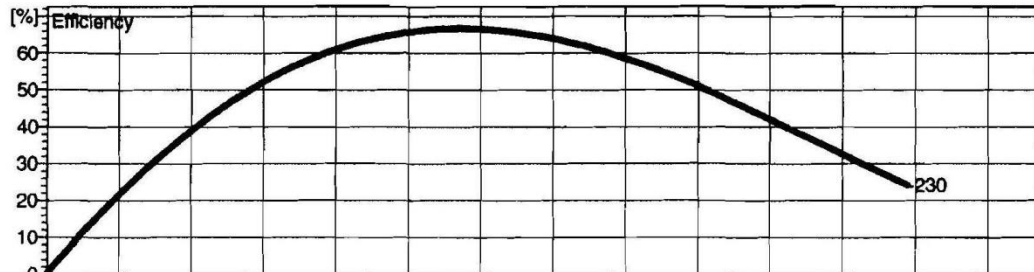
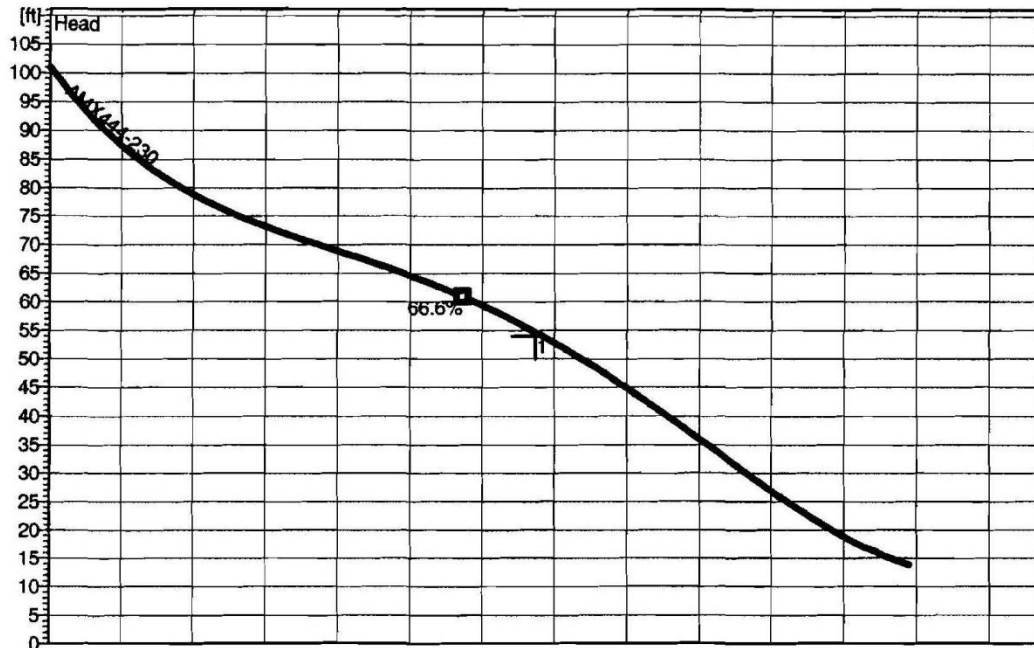
CURVE 7

Performance Curve

AMX444-230/20P/C

Impeller type: Single channel impeller		Solid size 4 Inch	Ø:	Max. Ø: 9¹¹/₁₆"	Min. Ø: 7¹/₂"	Sel. Ø: 9⁷/₈"
Speed: 1750 rpm	Frequency: 60 Hz	Duty point: Q = 674 US g.p.m. H = 54 ft		Suction port:	Discharge port: 4" ANSI	
Power data referred to: Water, pure [100%] ; 68°F; 62.322lb/ft ³ ; 1.0775E-5ft ² /s				Testnorm: ISO 9906		

Curve number:



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Ebara Submersible Sewage Pump

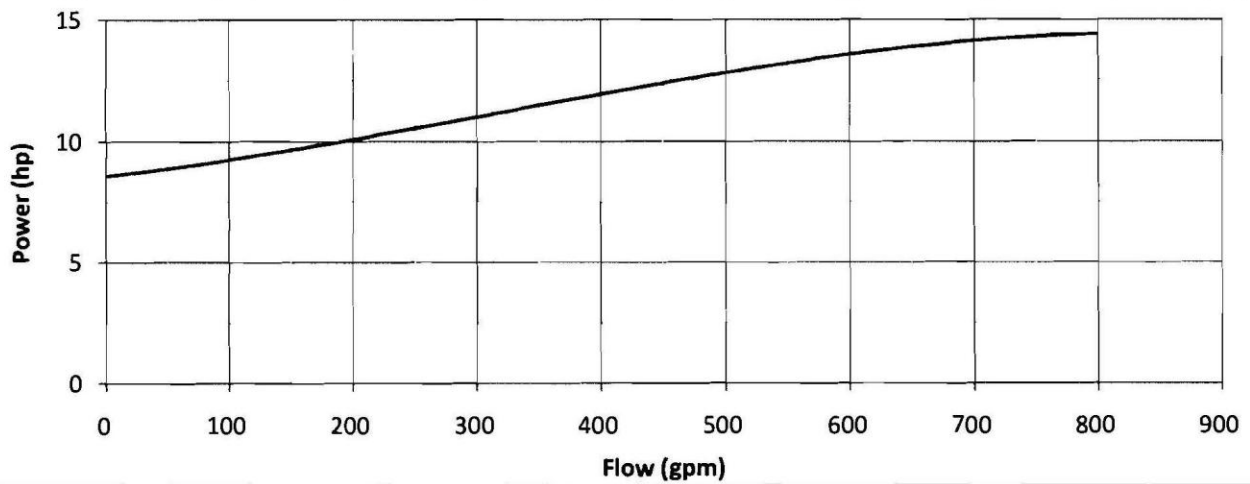
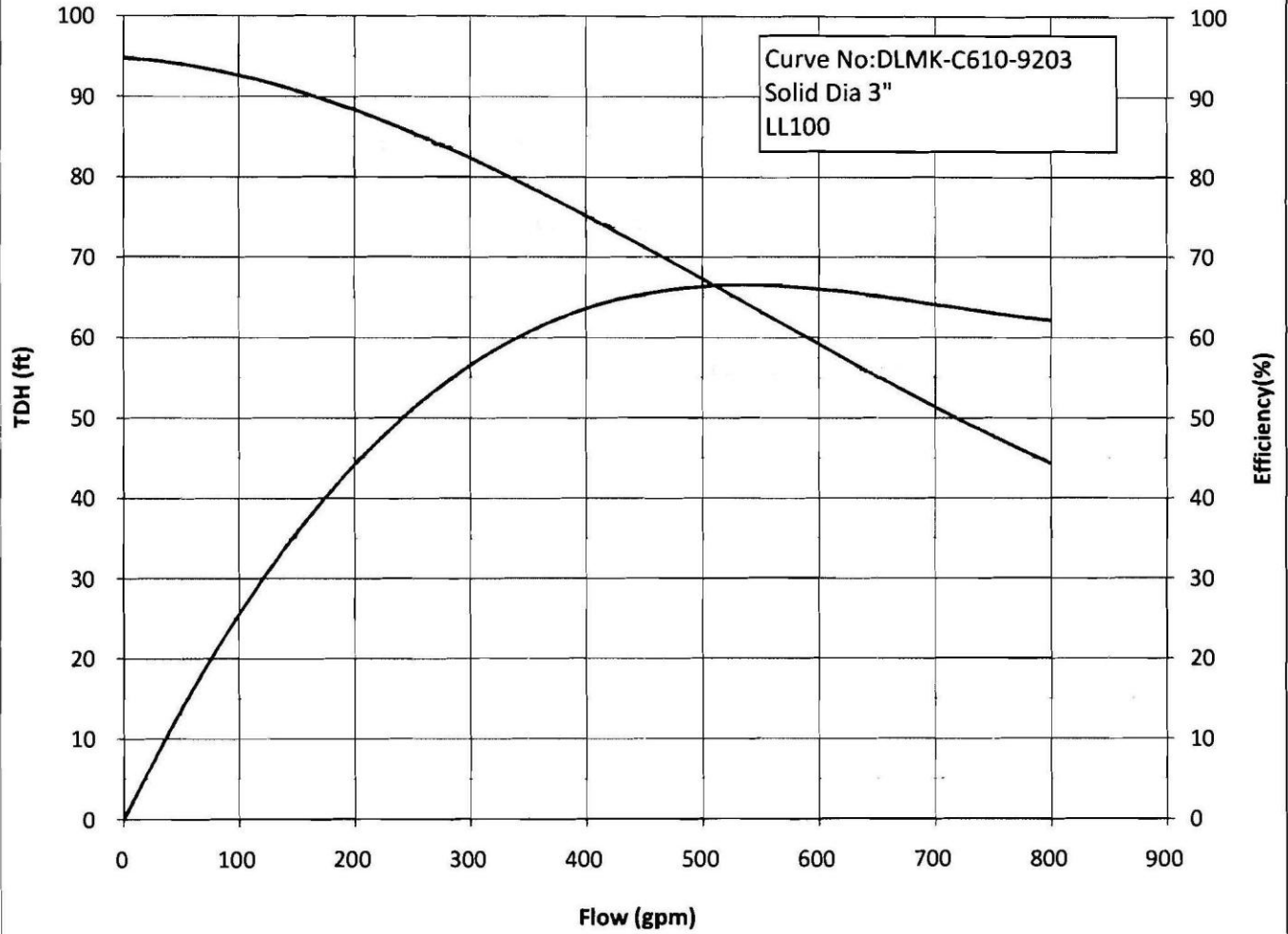
Performance Curve 8

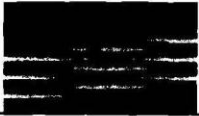
Model: 100DLMBKFMU6112/4

HP: 15

FLA: 39.2/19.6

Date: 12/9/10





Ebara Fluid Handling
1651 Cedar Line Drive Rock
Hill, SC 29730

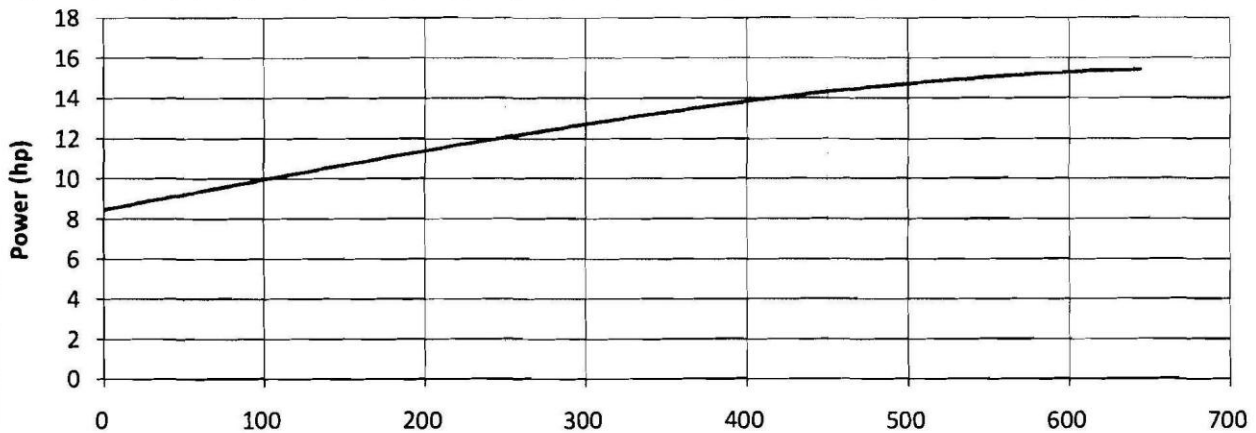
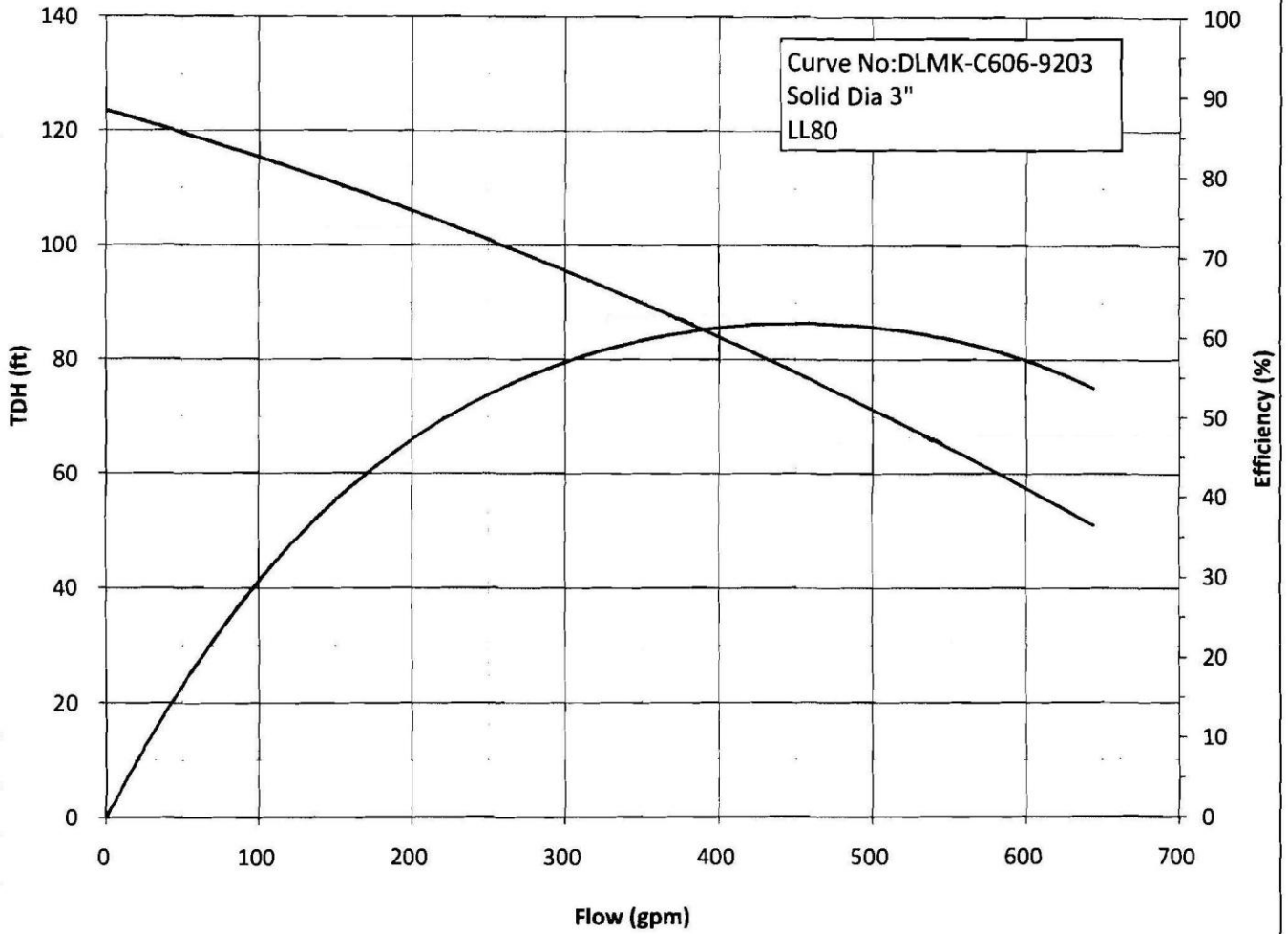
Performance Curve 9

Model: 80DLCMBKFMU6112/4

HP: 15

FLA: 39.2/19.6

Date: 6/30/10





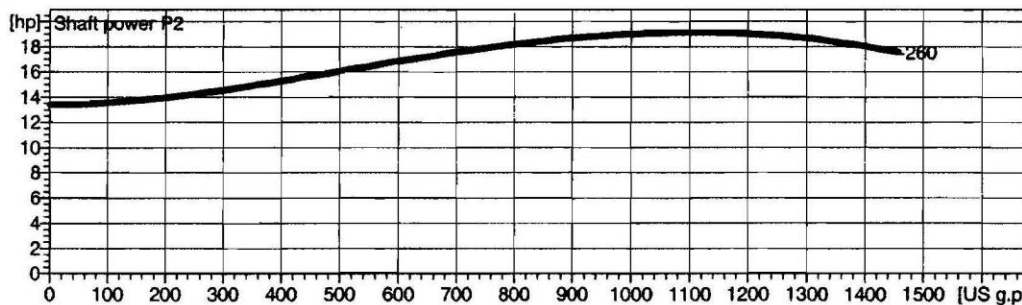
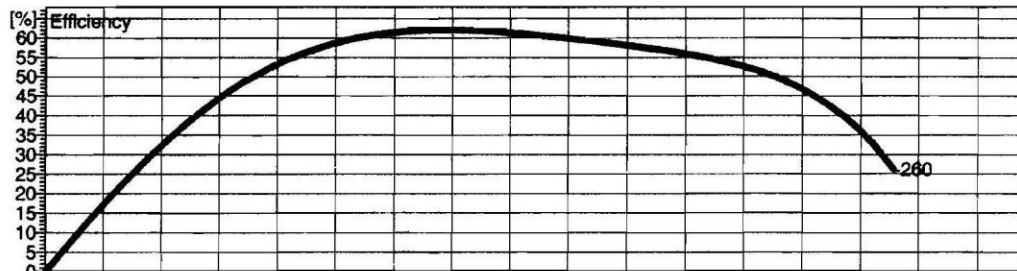
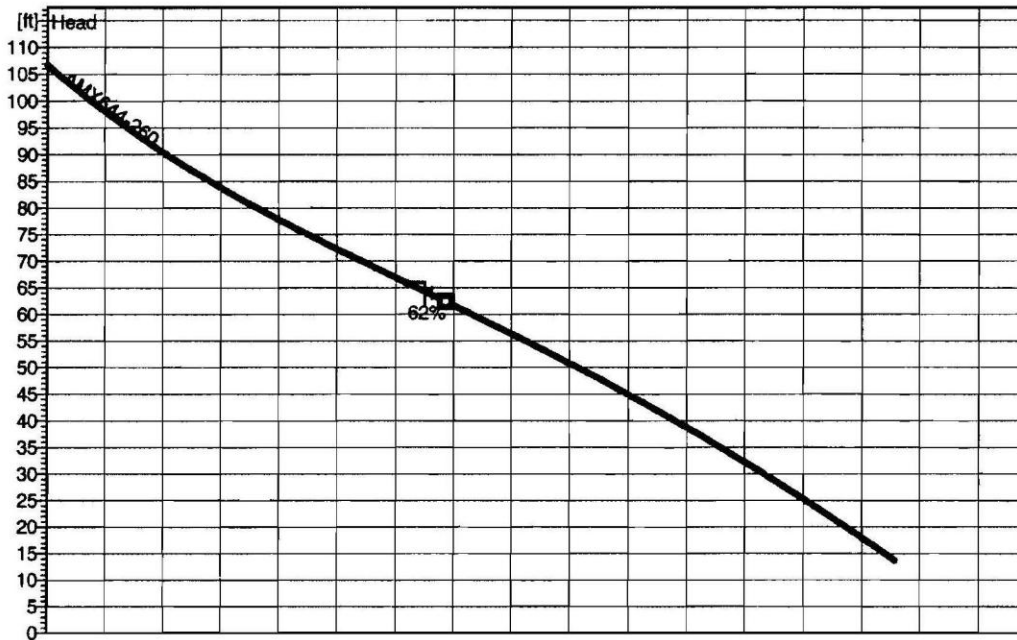
CURVE 10

Performance Curve

AMX644-260/20P/C

Impeller					
Impeller type: Single channel impeller	Solid size 4 inch	Ø: 12²/₁₆"	Max. Ø: 10²/₁₆"	Min. Ø: 10²/₁₆"	Sel. Ø: 10²/₁₆"
Operating data					
Speed: 1750 rpm	Frequency: 60 Hz	Duty point: Q = 650 US g.p.m. H = 66 ft	Suction port: 6" ANSI	Discharge port: 6" ANSI	
Power data referred to: Water [100%]; 68°F; 62.322lb/ft³; 1.0818E-5ft²/s			Testnorm:	ISO 9906	

Curve number:



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Ebara Submersible Sewage Pump

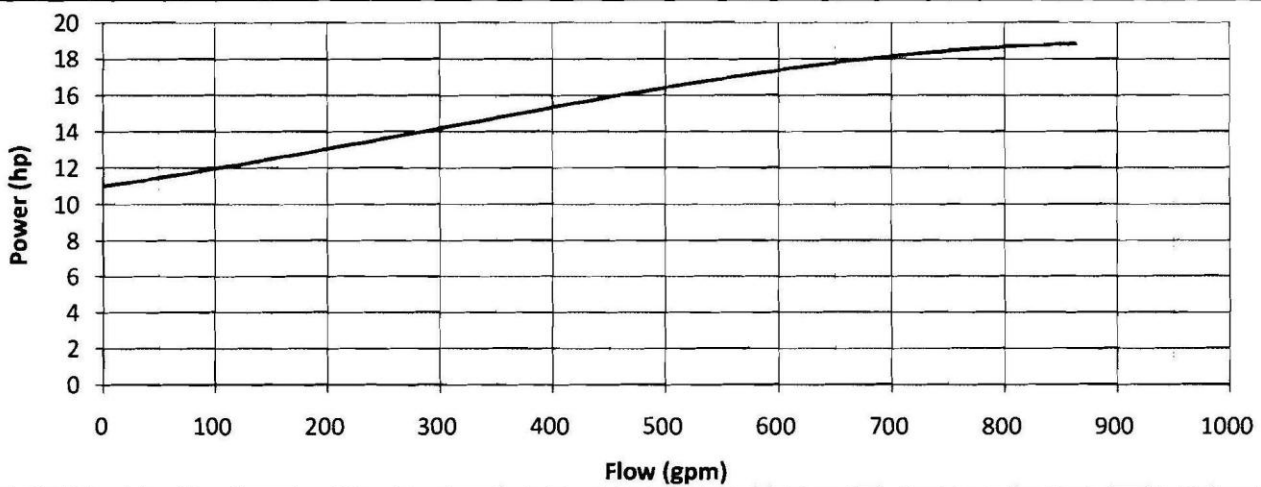
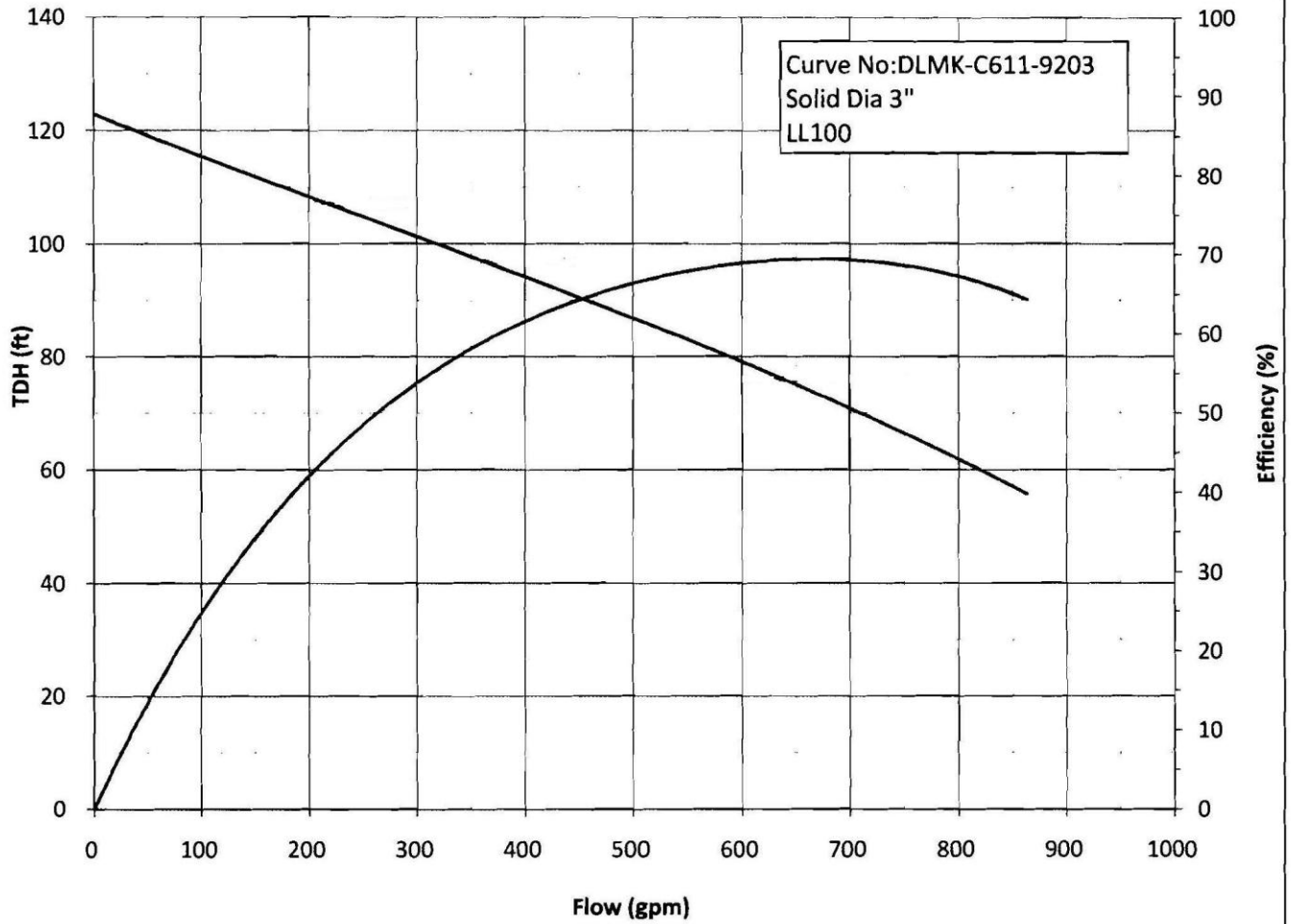
Performance Curve 11

Model: 100DLMBKFMU6152/4

HP: 20

FLA: 55.2/27.6

Date: 7/9/10



Ebara Submersible Sewage Pump

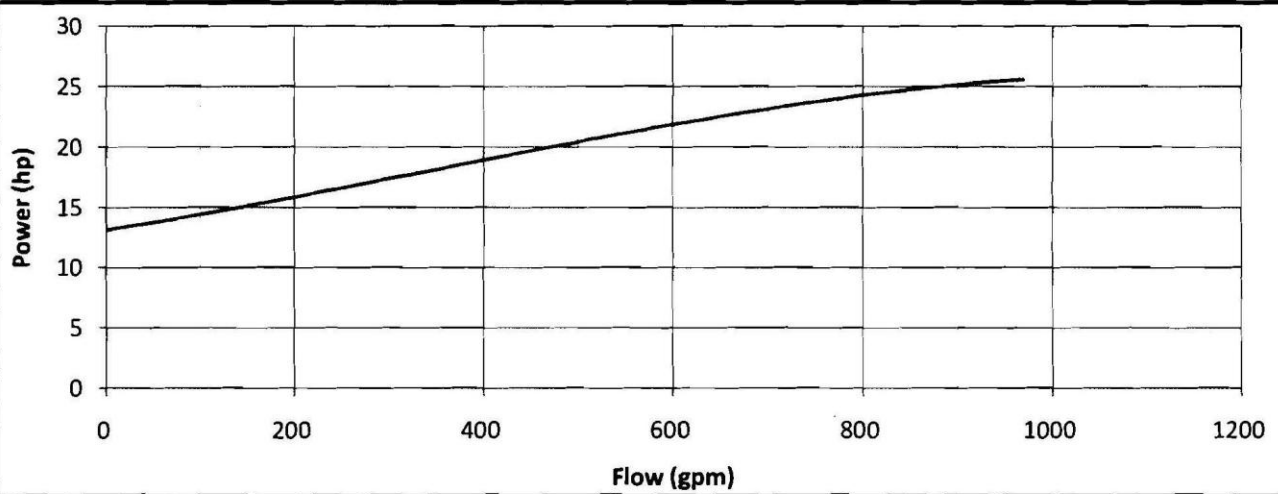
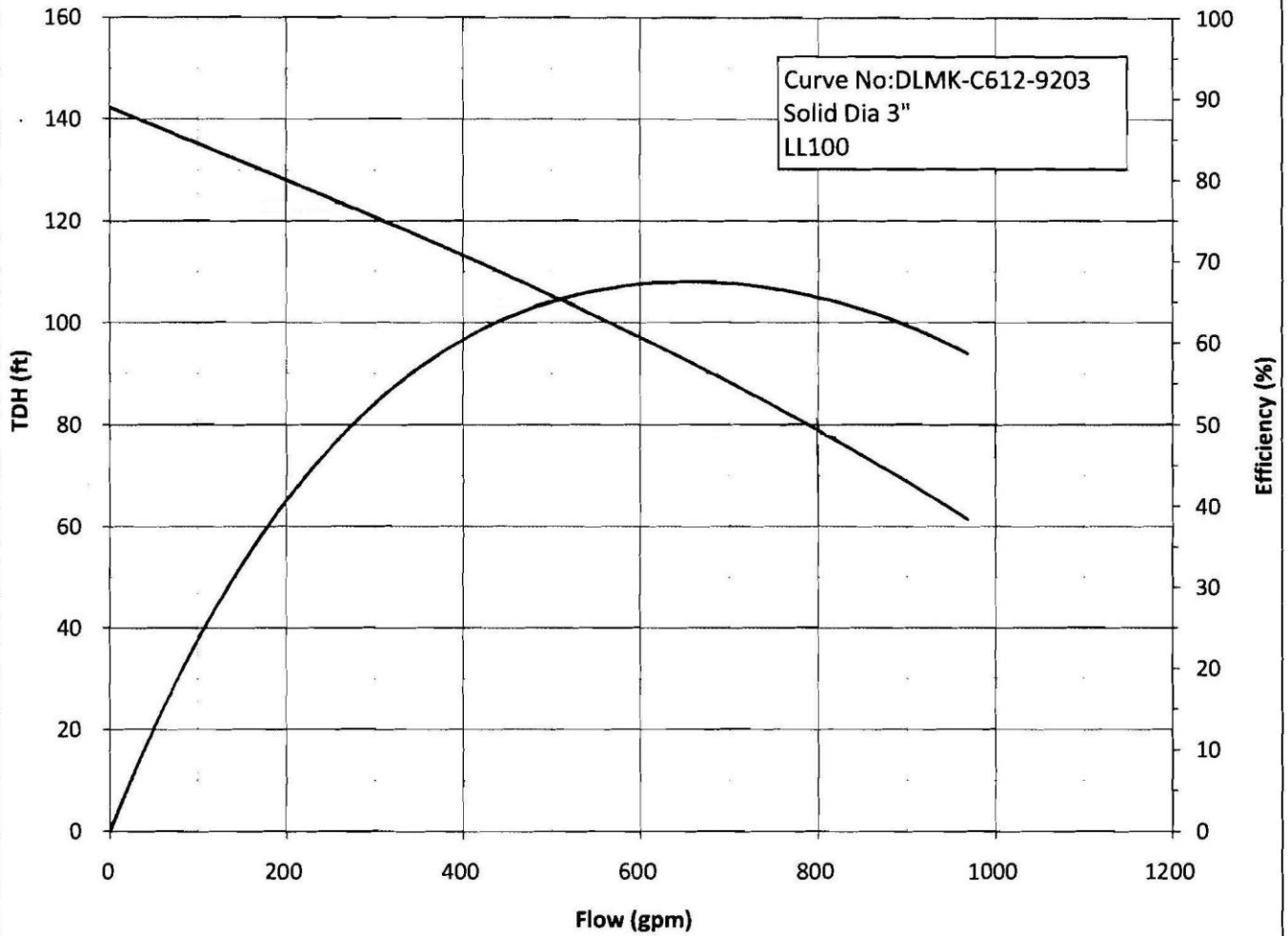
Performance Curve 12

Model: 100DLMBKFMU6182/4

HP: 25

FLA: 66.6/33.3

Date: 7/1/10



Ebara Submersible Sewage Pump

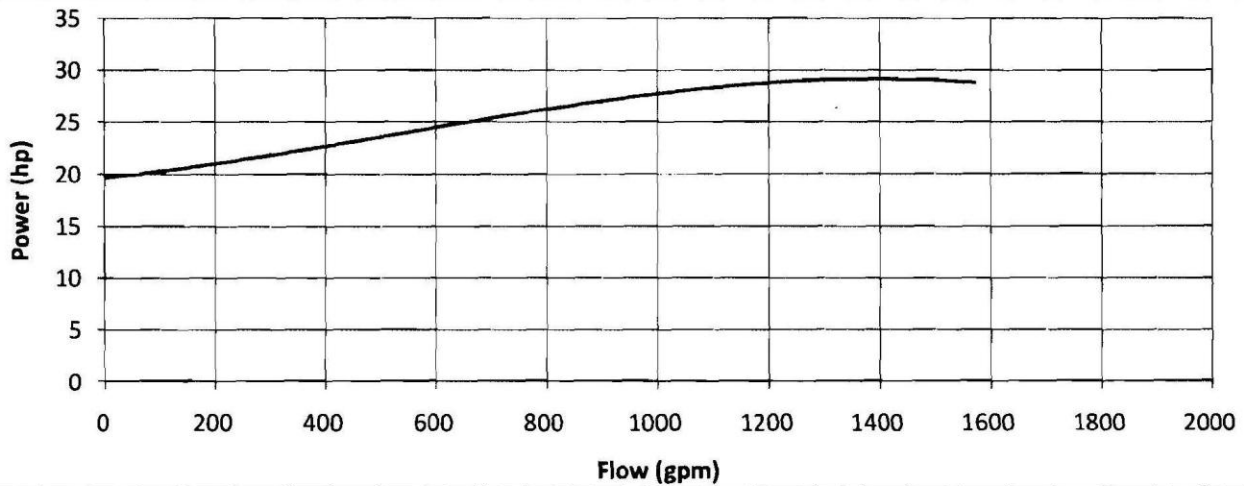
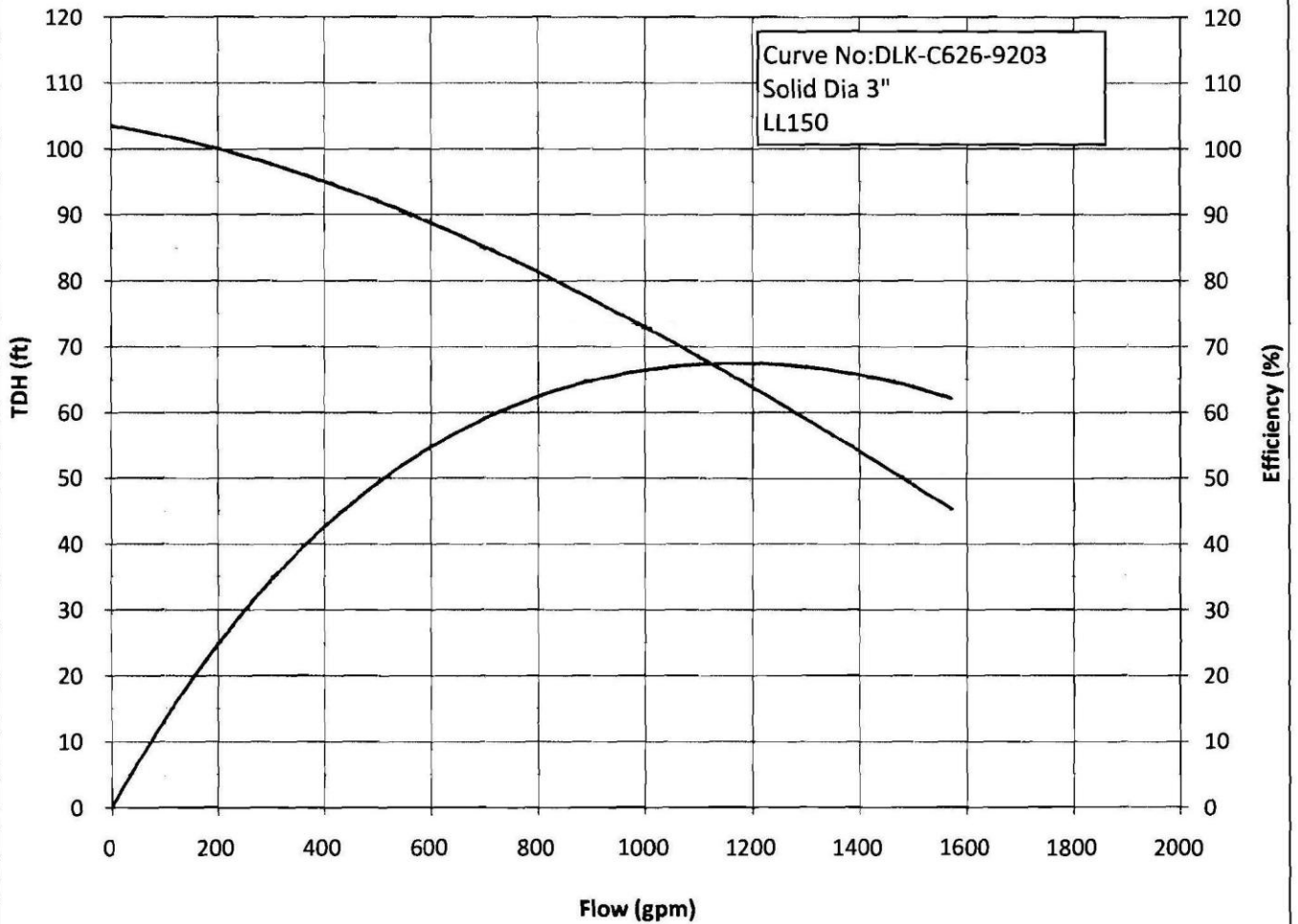
Performance Curve 13

Model: 150DLBKFMU6222/4

HP: 30

FLA: 77.6/38.8

Date: 4/1/11

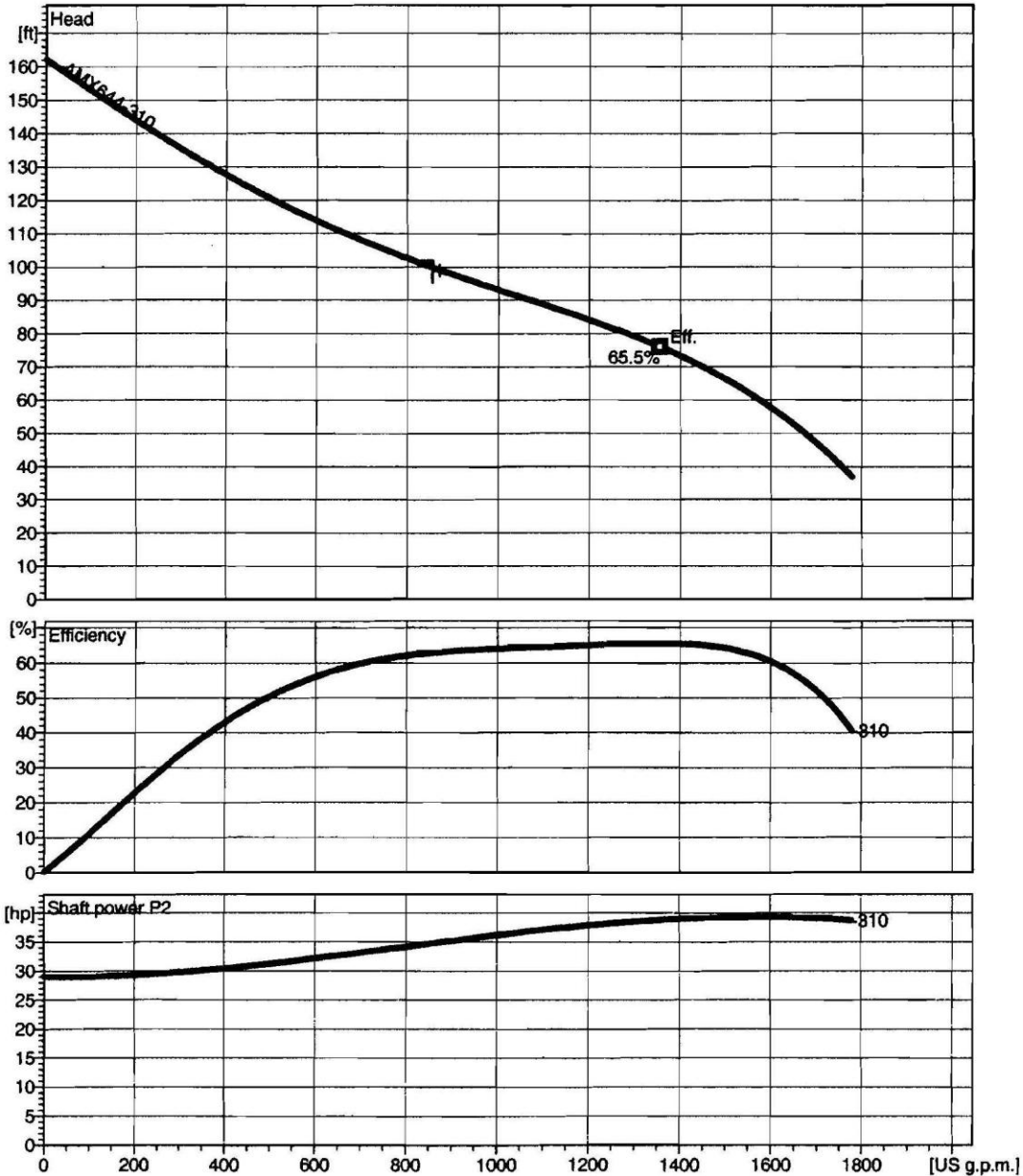




Performance Curve
AMX644-310/39,2FU

Impeller type: Single channel impeller		Solid size 4 inch	Ø:	Max. Ø: 12⁵/₁₆"	Min. Ø: 10³/₁₆"	Sel. Ø: 12⁵/₁₆"
Speed: 1750 rpm	Frequency: 60 Hz	Duty point: Q = 855 US g.p.m. H = 102 ft		Suction port:	Discharge port: 6" ANSI	
Power data referred to: Water [100%]; 68°F; 82.322lb/ft ³ ; 1.0818E-5ft ² /s				Testnorm: ISO 9906		

Curve number:



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Ebara Submersible Sewage Pump

Performance Curve 15

Model: 150DLBFMU6452/4

HP: 60

FLA: 146/73

Date: 4/1/11

