

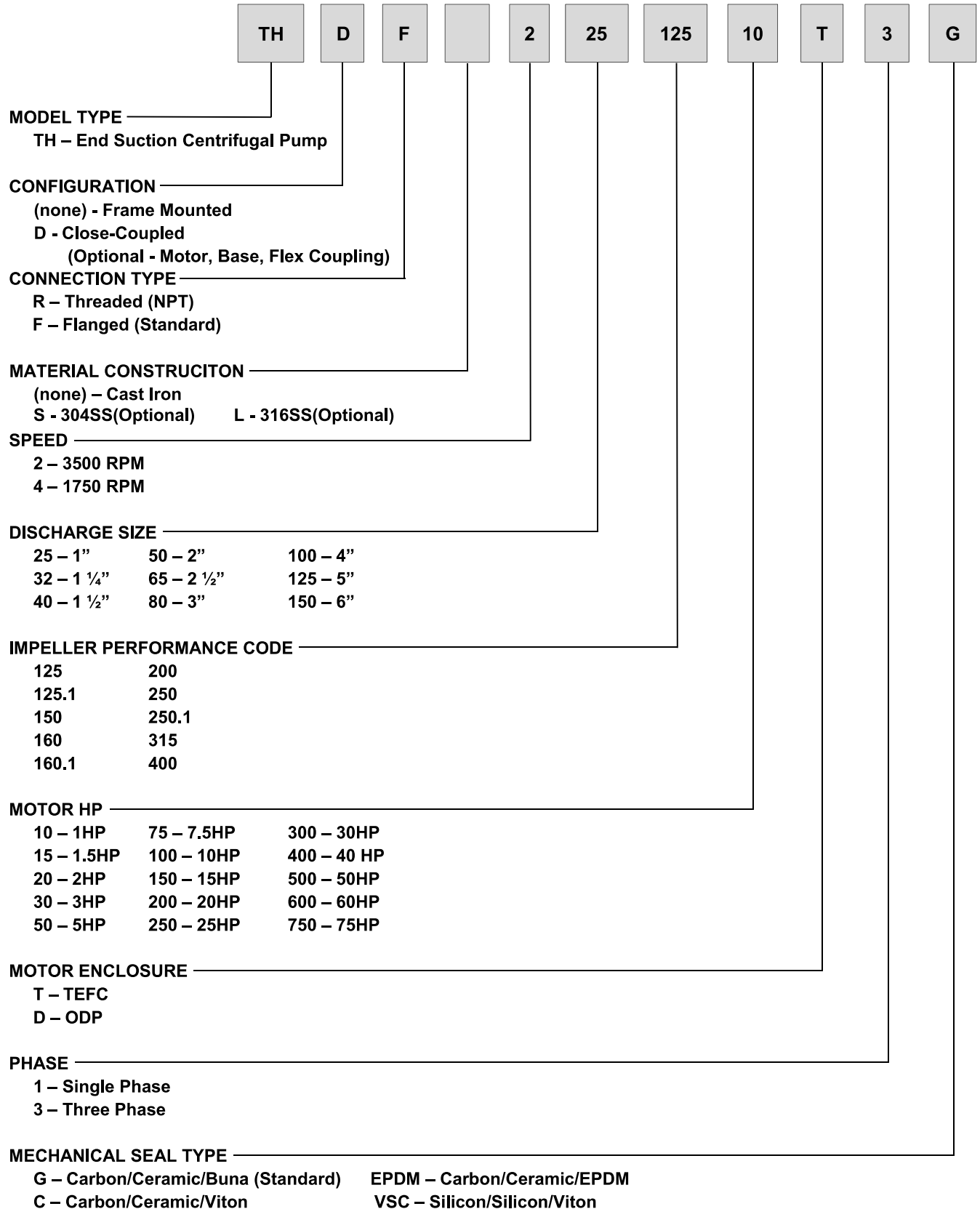
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60 Hz – 3500 rpm and 1750 rpm

SIZE	SPEED	
	3500 rpm	1750 rpm
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SIZE	SPEED	
	3500 rpm	1750 rpm
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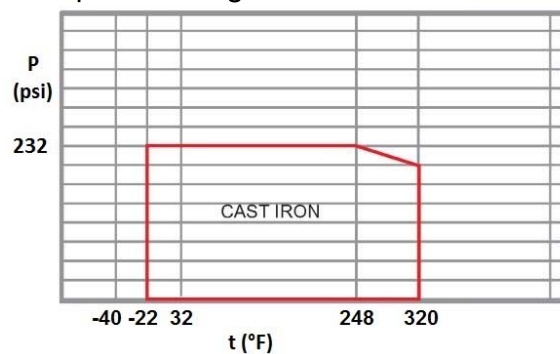
Technical Data

NPSH

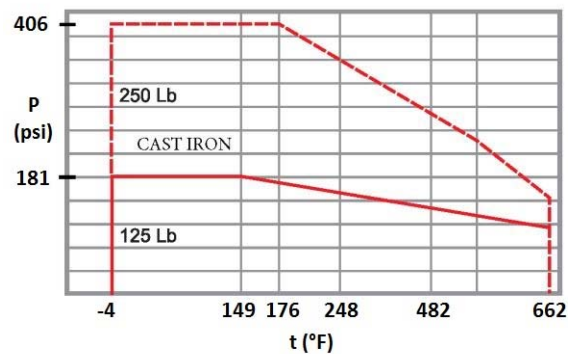
Values shown in curves are minimum values and represent the limit for beginning of cavitation, considering degassed water as pumped liquid.

- Performance characteristics according ISO 9906 Annex A.
- Head and flow values are valid for fluids with specific gravity 1.0 and maximum cinematic viscosity $\nu = 20$ cP.
- If specific gravity is different than 1.0 then power correction must be calculated.

Pump and Flange Pressure Limitations



Discharge pressure and temperature limits of pump



Pressure and temperature limits of ANSI B16.1 flanges

Peripheral Velocity

When determining operating speed of the pump and checking maximum discharge pressure, maximum peripheral speed of impeller must be observed, according to the construction material of impeller. Material and speeds below.

- Cast Iron (A48 CL250 (GG25)) – 131 ft/s
- For pump selection, use characteristics curves that refer for water at ambient temperature and specific gravity 1.0.

Special Notes

1. EBARA reserves the right to modify information of this catalog without prior notice;
2. Hydraulic data included in this catalog allow tolerance according NBR-6400 and/or ISO 9906 annex A;
3. Pumps are suitable for handling non-aggressive liquids;
4. Other technical information, please consult Factory;
5. All pumps come with Installation, Operation, Maintenance Manual and Warranty Certificate of 12 months, according conditions contained in the Warranty Statement.



TH Frame Mounted

1. DESIGN

Horizontal, single stage, end suction with top centerline discharge. The “back-pull-out” design allows maintenance and repair services through the backside without dismantling piping supports or disturbing alignment. Hydraulic built according ISO 9906 annex A.

2. OPERATING DATA

- Size
- Flow gpm
- Head ft
- Temperature °F
- Speed rpm

3. TECHNICAL SPECIFICATION

- Pump casing – Volute casing with horizontal installation and with integrally cast pump feet. It is provided with replaceable wear ring.
- Impeller – Single suction, closed radial impeller. It is provided with replaceable wear ring.
- Shaft – Fitted with a replaceable shaft sleeve in the shaft seal area. Shaft seal is performed by mechanical seal.

4. Optional (Consult Factory)

- Drive Motor
 - Frame Size
 - Shaft Size in
 - Enclosure TEFC
 - Voltage 208-230/460 // 60hz
 - Phase 3
- Coupling
- Coupling Guard
- Baseplate



THD Close-Coupled

1. DESIGN

Horizontal, single stage, end suction with top centerline discharge, close-coupled to electric motor.

2. OPERATING DATA

- Sizes
- Flow gpm
- Head ft
- Temperature °F
- Suction pressure psi
- Discharge pressure psi
- Speed rpm
- Motor Frame Size JP
- Enclosure
- Voltage/Hz Hz
- Phase

3. TECHNICAL SPECIFICATION

3.1 Pump Casing

- Pump casing - Single volute, top centerline discharge (standard assembly), but it is possible to assemble in other positions. Suction and discharge nozzles can be threaded NPT or flanged (ANSI B16.1 125#FF).
- Pump casing is secured to casing cover with metal-to-metal fit that ensures perfect alignment.
- Pump casing is radially split with “back-pull-out” design that allows maintenance and repair services through the backside without dismantling suction and discharge piping.
- Standard material: Cast Iron.

3.2 Impeller

- Single suction, closed radial impeller, single-piece casting, keyed and secured to motor shaft by screw.
- Standard material: Cast Iron.

3.3 Adapter / Casing Cover

- It assures the alignment of the pump casing to motor flange.
- Standard material: Cast Iron.



3.4 Rotation Direction

- Clockwise, seen from motor end.

3.5 Mechanical Seal

- Standard for water up to 158°F as well as for most hydrocarbons.
- Standard material: Carbon / Ceramic / Buna.
- For other liquids and temperatures, consult Factory.

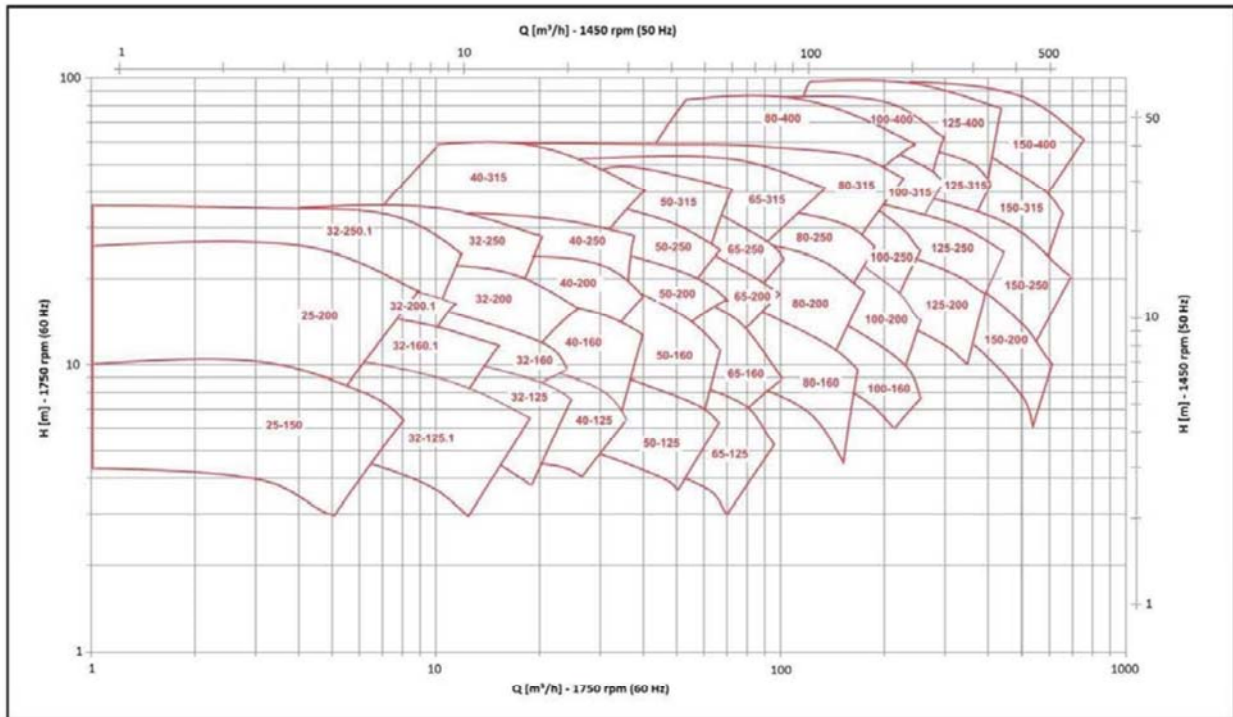
3.6 Shaft Protecting Sleeve

- Extended, covering the shaft sealing area, it prevents the contact of the pumped liquid with the shaft.
- Standard Material: Stainless Steel AISI 304.

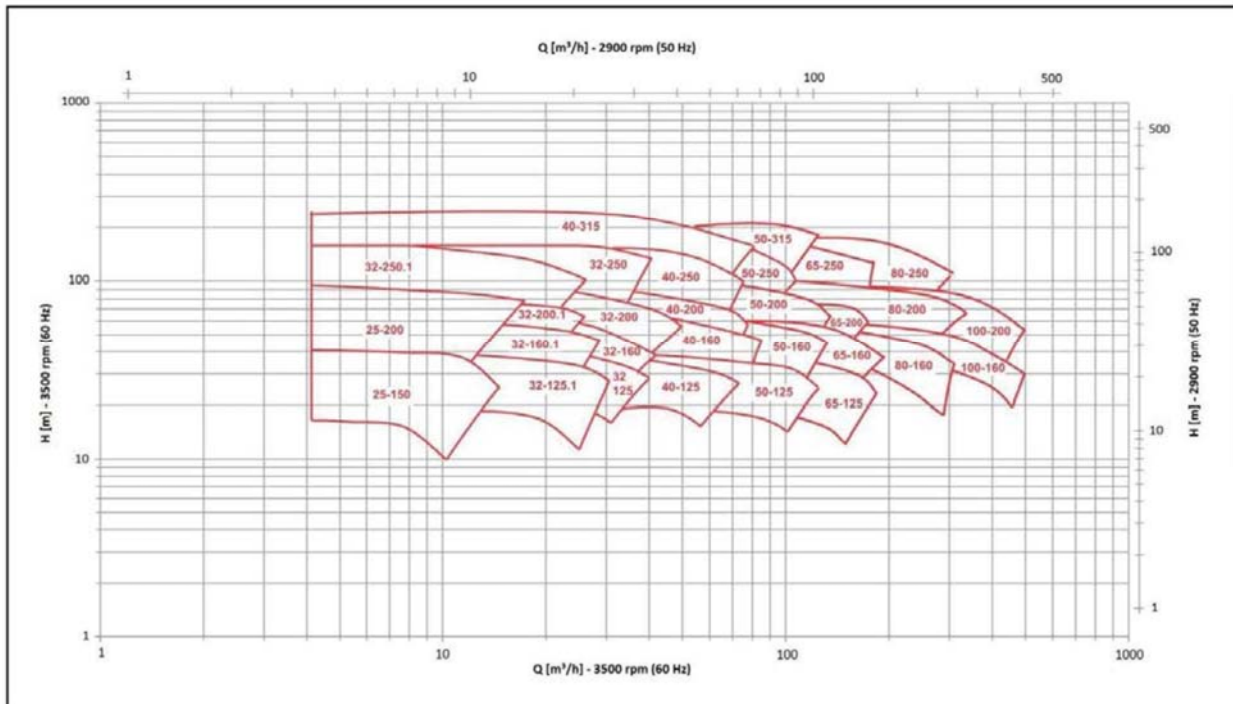


Performance Range

1750 RPM



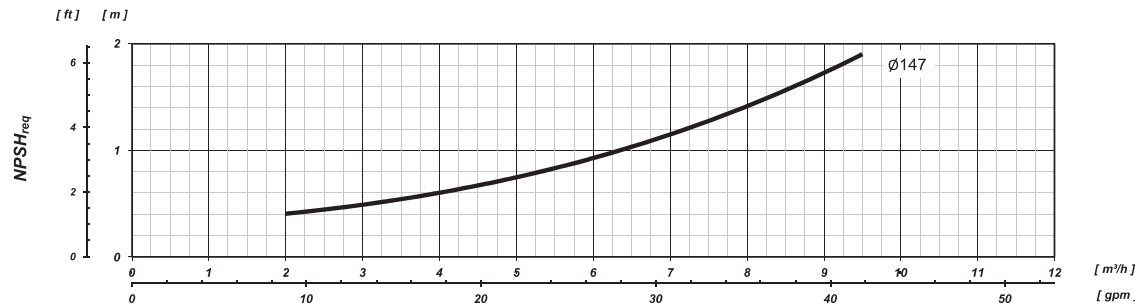
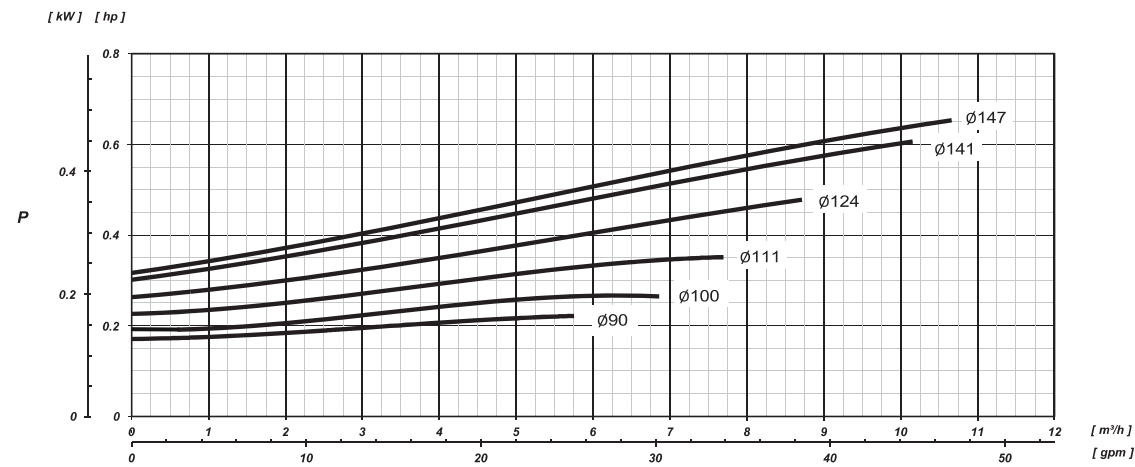
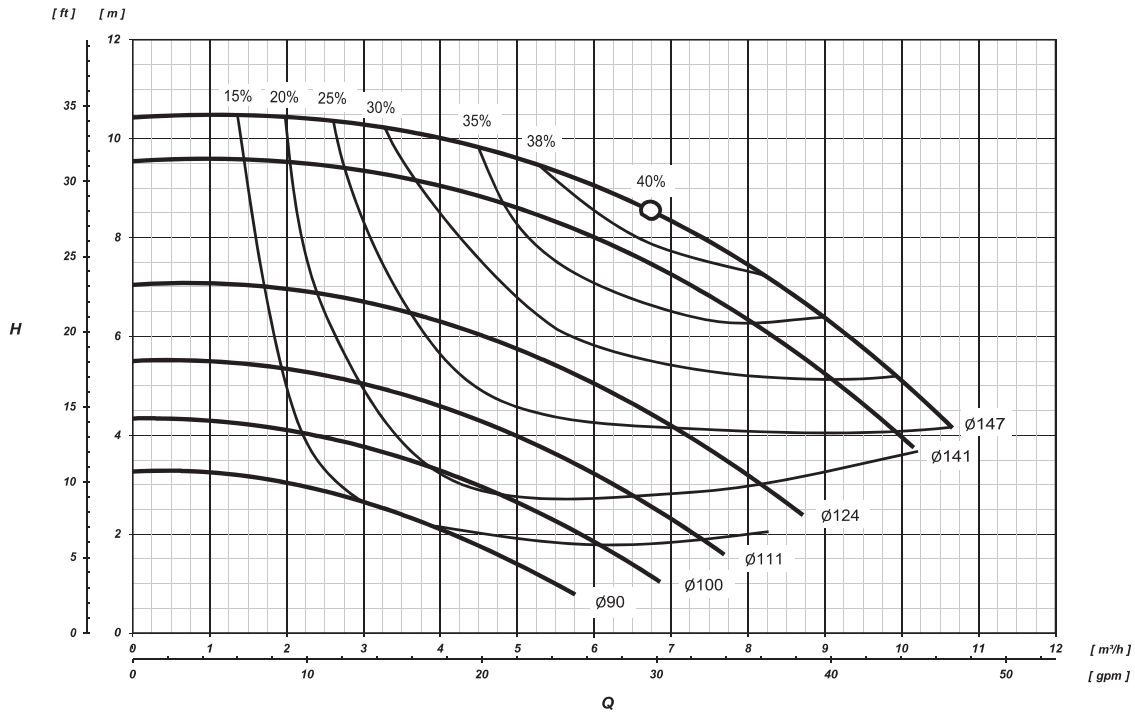
3500 RPM



TH 25-150

Single Stage Closed Impeller

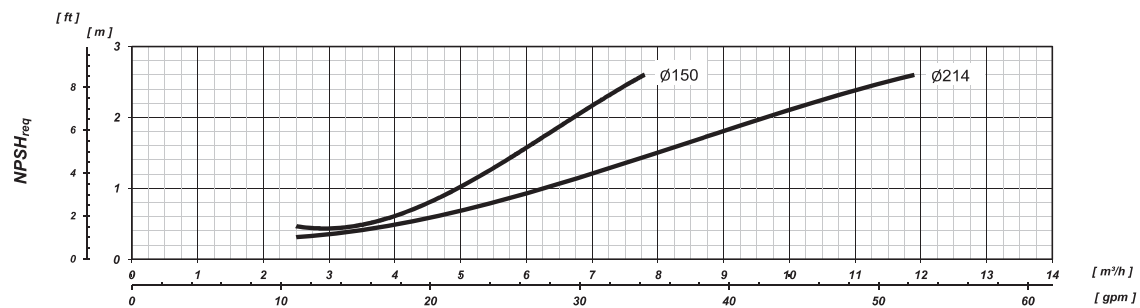
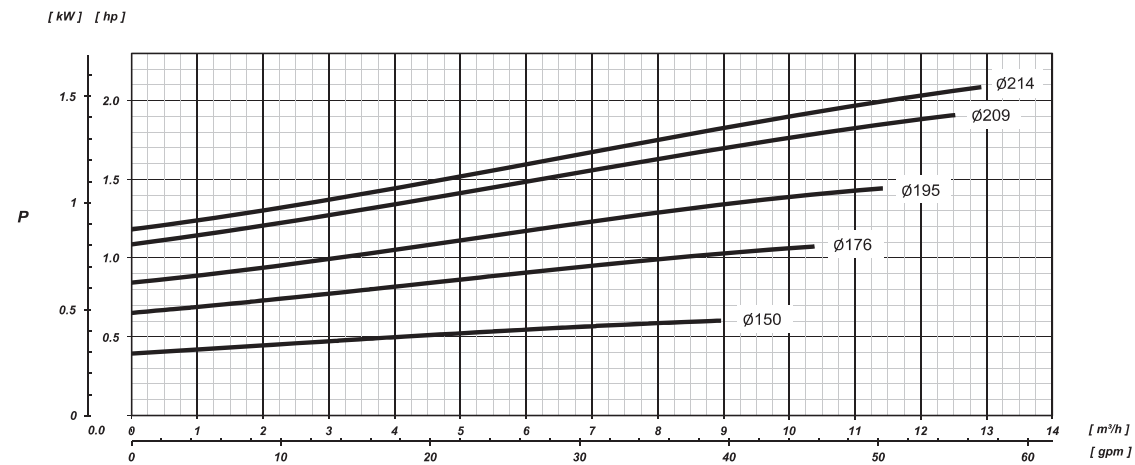
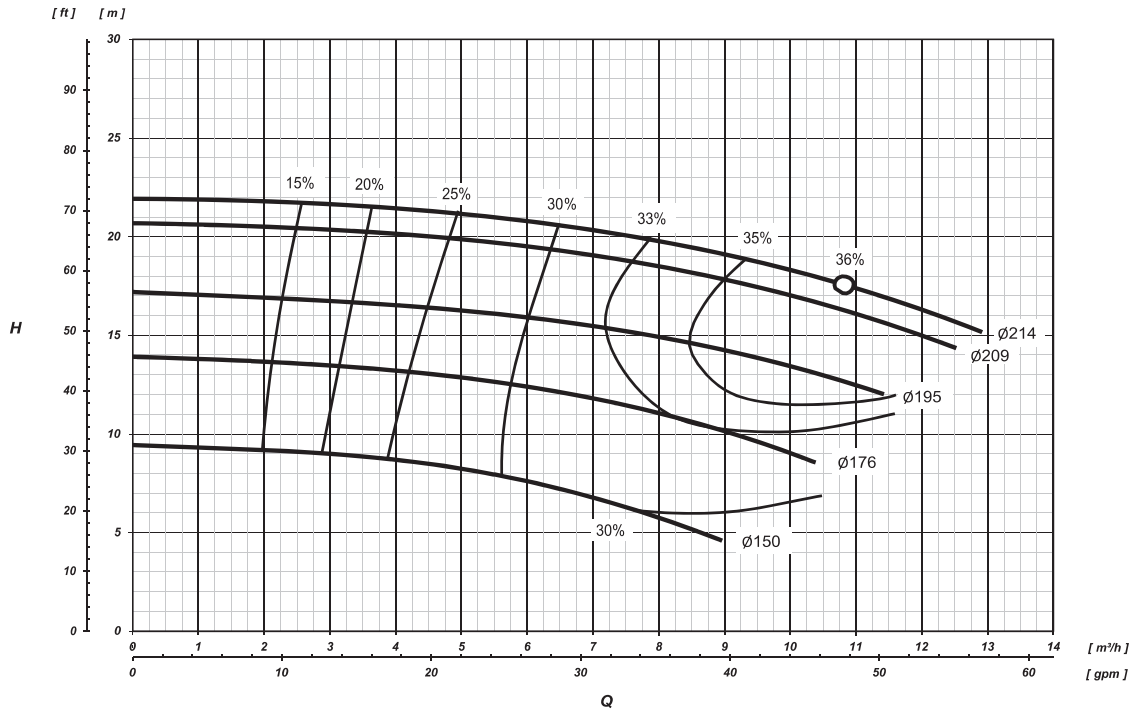
Number/Version January/16 Applies to clean water at 68°F	IMPELLER	Diameter 147/90 mm	Width 5.5 mm	Suction 32 mm 1-1/4"	Discharge 25 mm 1"	Speed (1/min) 1750 rpm
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TH 25-200

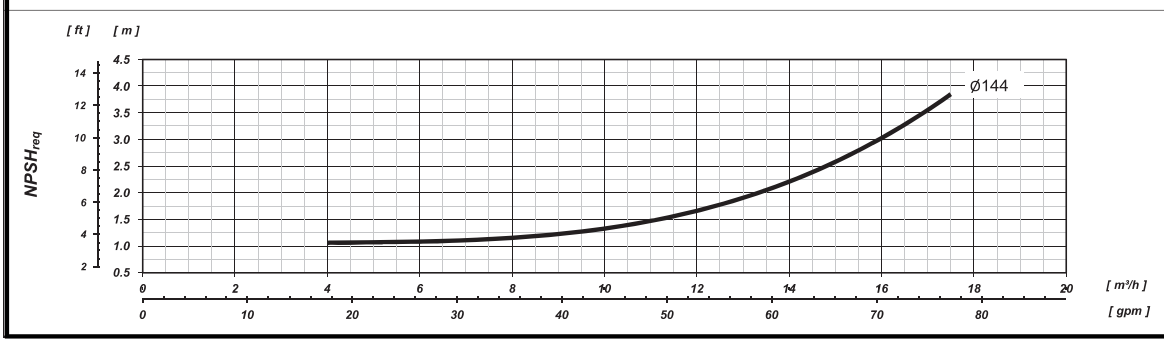
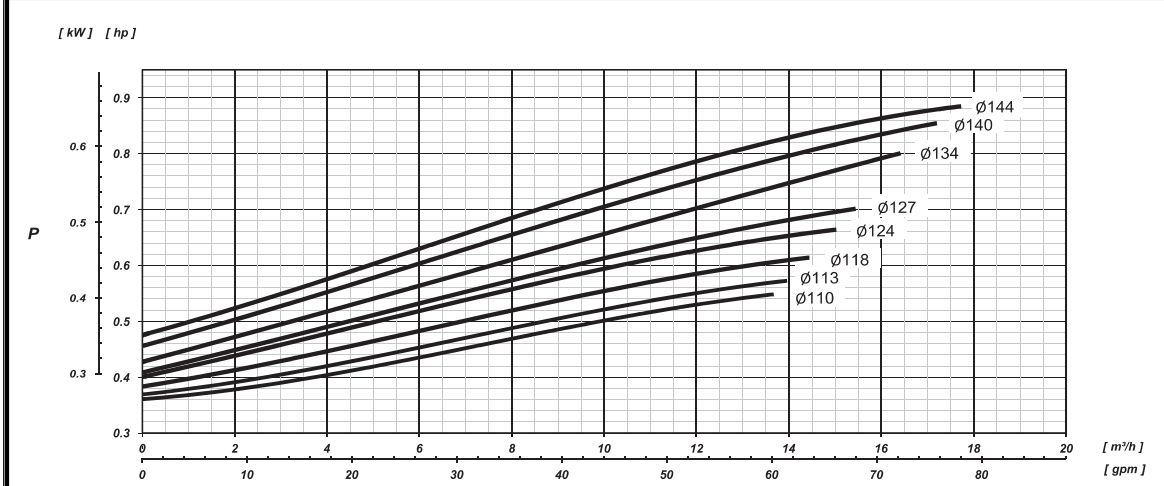
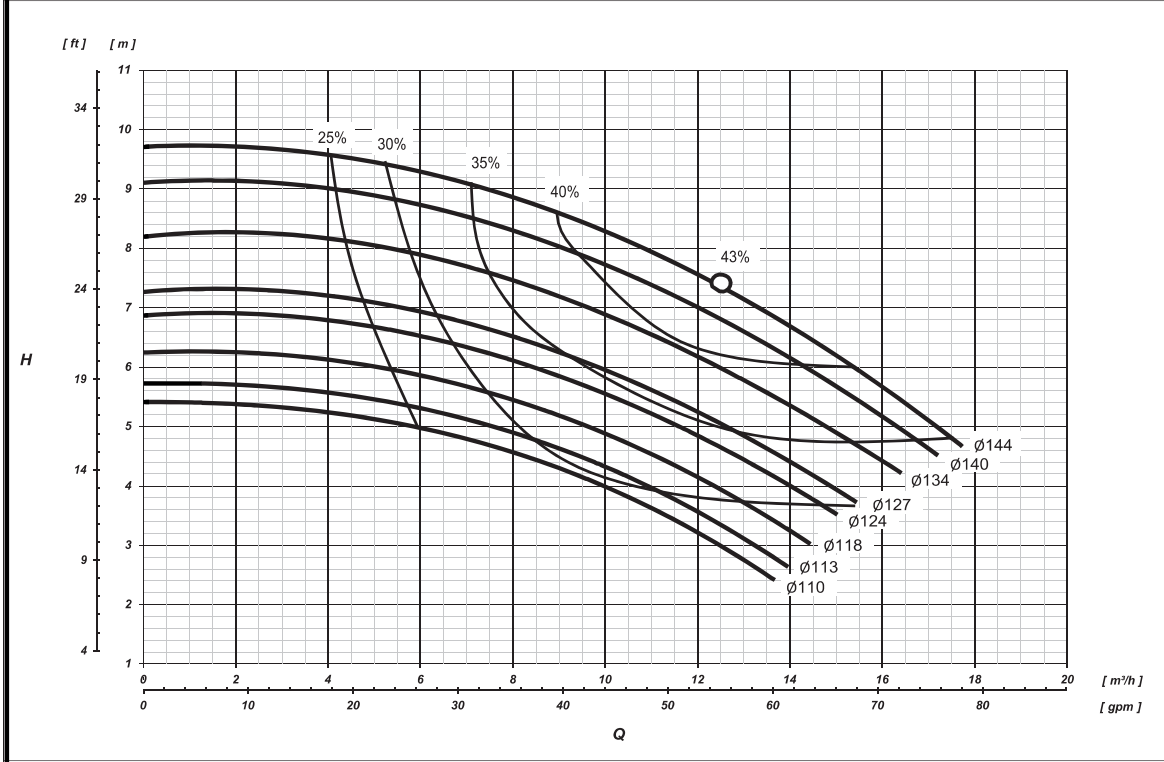
Single Stage Closed Impeller

Number/Version October/15 Applies to clean water at 68°F	IMPELLER	Diameter 214/150 mm	Width 6 mm	Suction 40 mm 1-1/2"	Discharge 25 mm 1"	Speed (1/min) 1750 rpm
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TH 32-125.1 Single Stage Closed Impeller

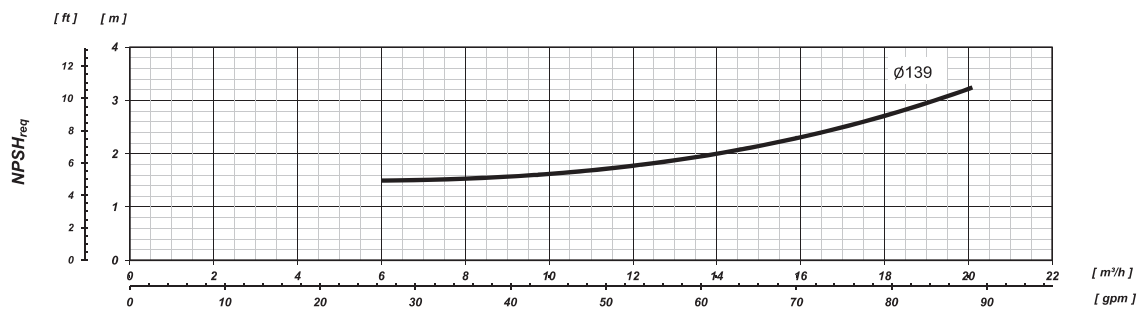
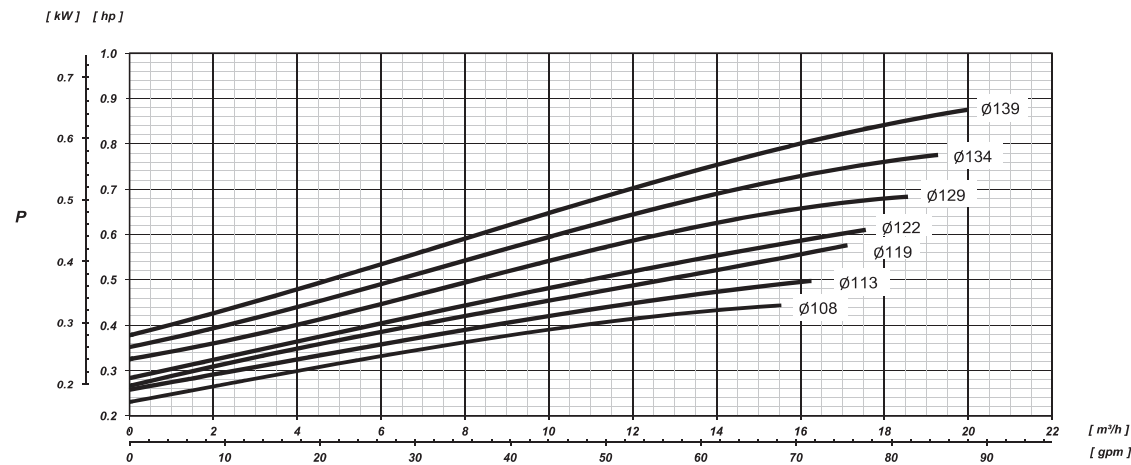
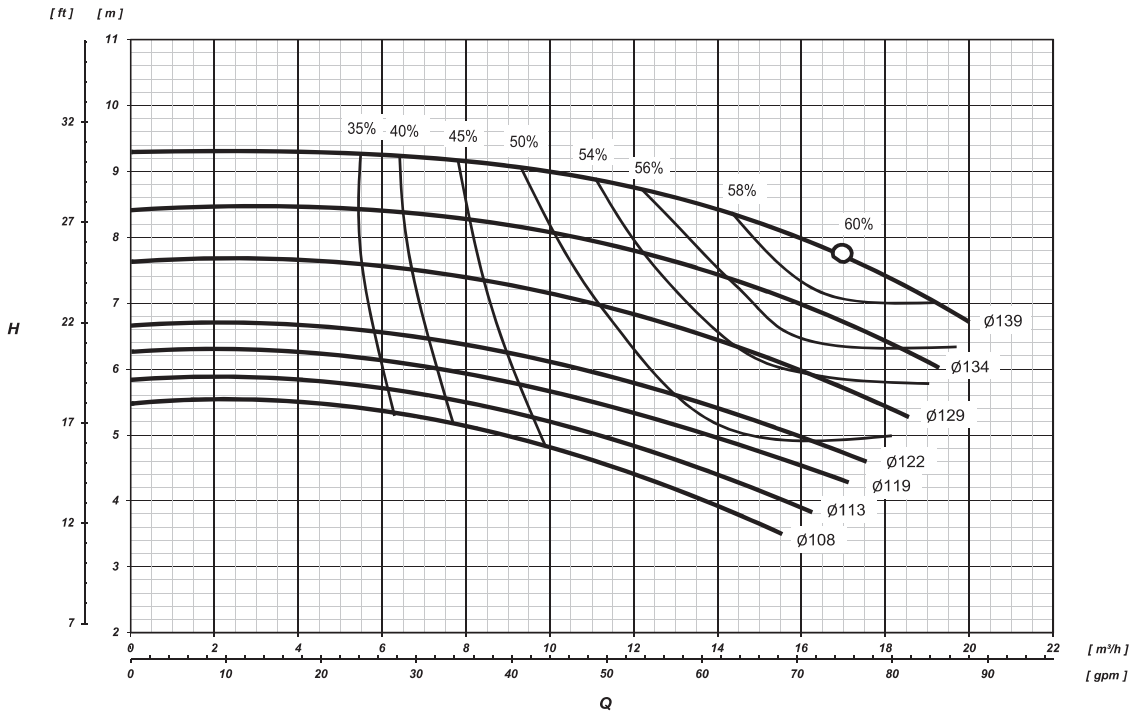
Number/Version August/15 Applies to clean water at 68°F	IMPELLER	Diameter 144/110 mm	Width 7 mm	Suction 50 mm 2"	Discharge 32 mm 1-1/4"	Speed (1/min) 1750 rpm
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TH 32-125

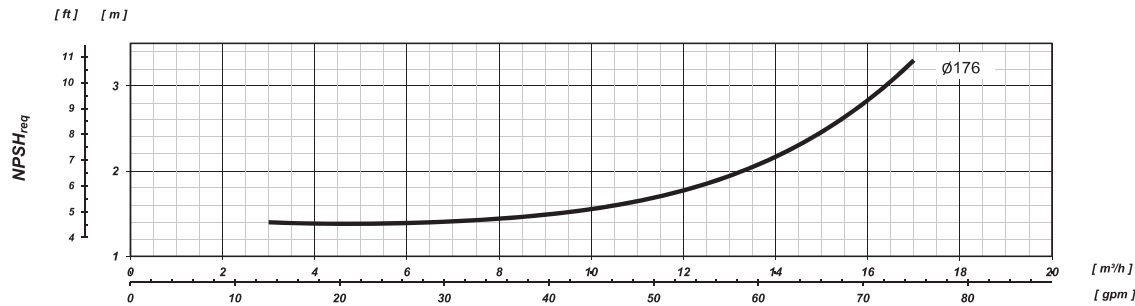
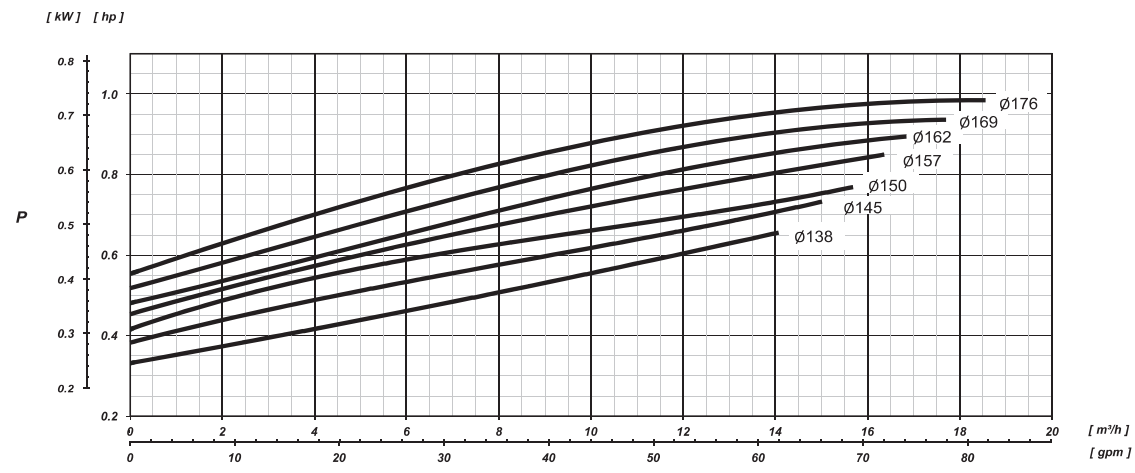
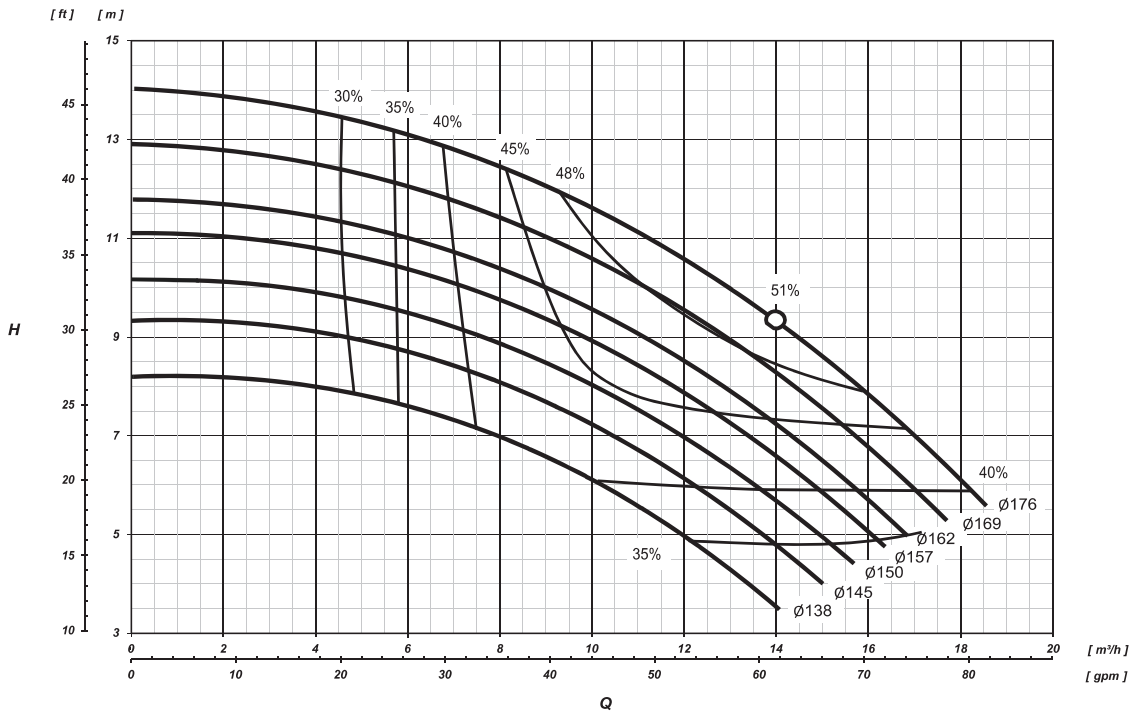
Single Stage Closed Impeller

Number/Version <i>August/15</i> Applies to clean water at 68°F	IMPELLER	Diameter 139/108 mm	Width 9 mm	Suction 50 mm 2"	Discharge 32 mm 1 1/4"	Speed (1/min) 1750 rpm
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TH 32-160.1 Single Stage Closed Impeller

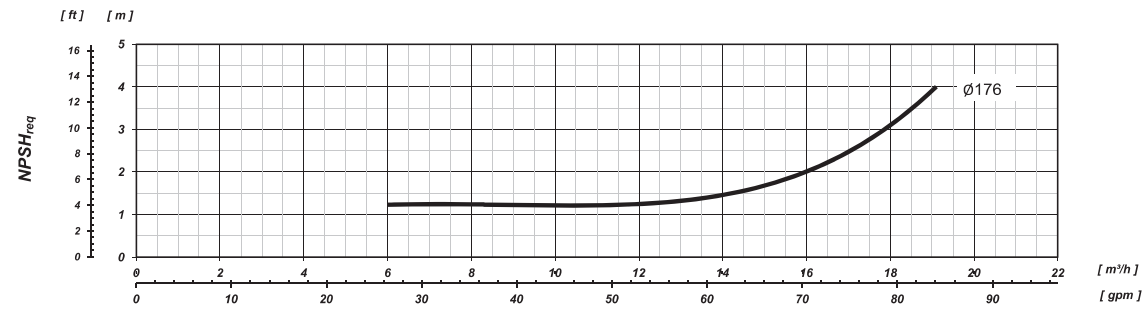
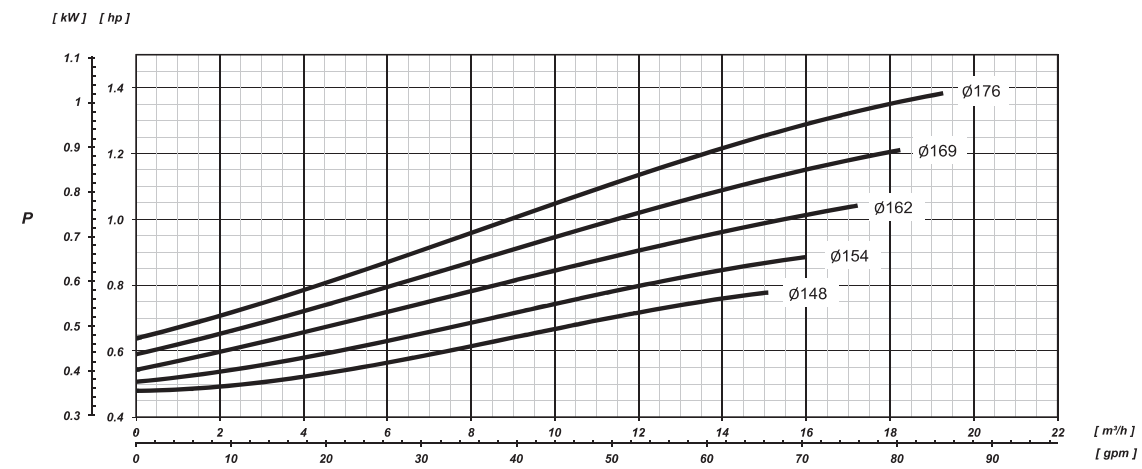
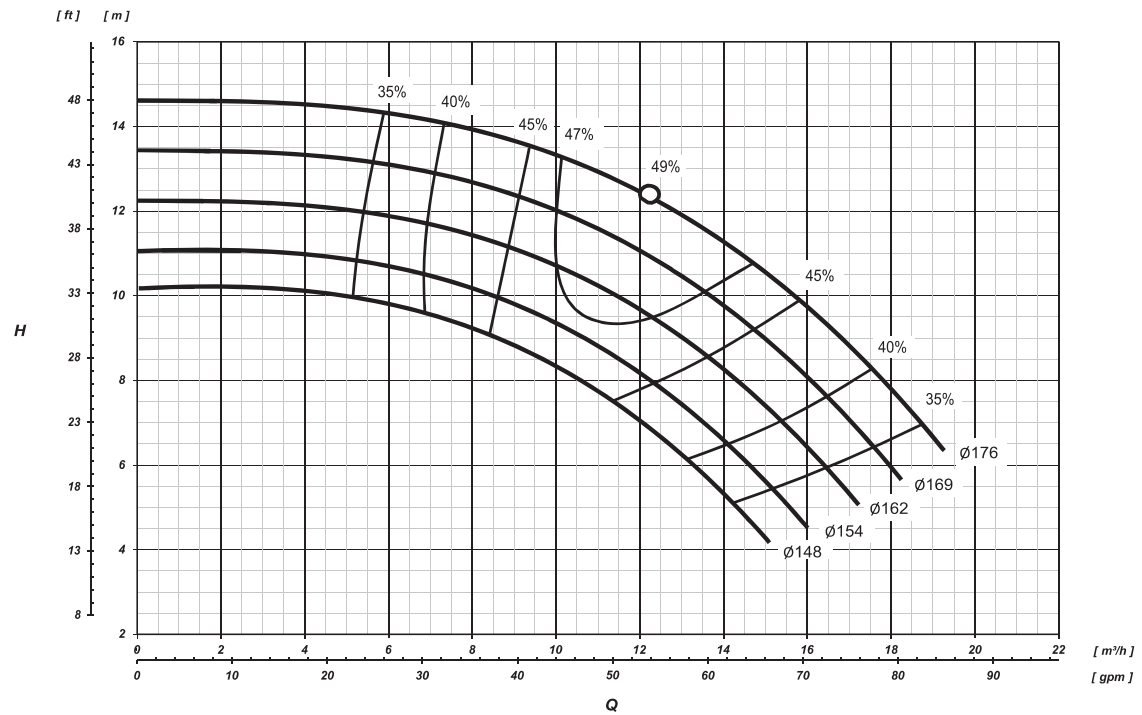
Number/Version August/15 Applies to clean water at 68°F	IMPELLER	Diameter 176/138 mm	Width 5 mm	Suction 50 mm 2"	Discharge 32 mm 1-1/4"	Speed (1/min) 1750 rpm
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TH 32-160

Single Stage Closed Impeller

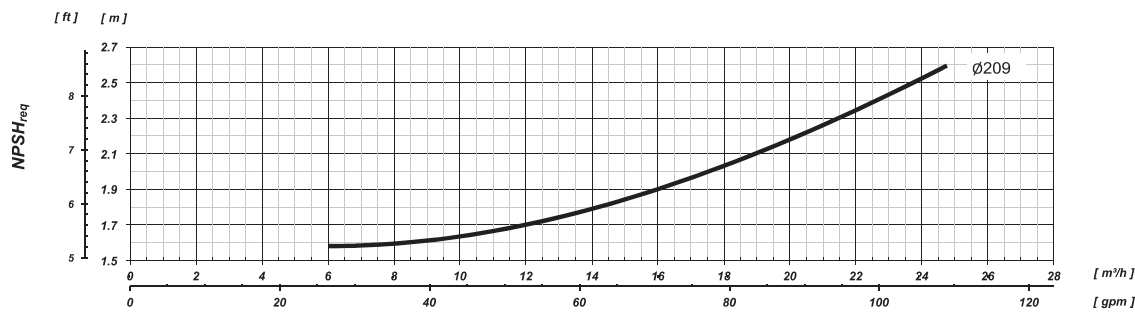
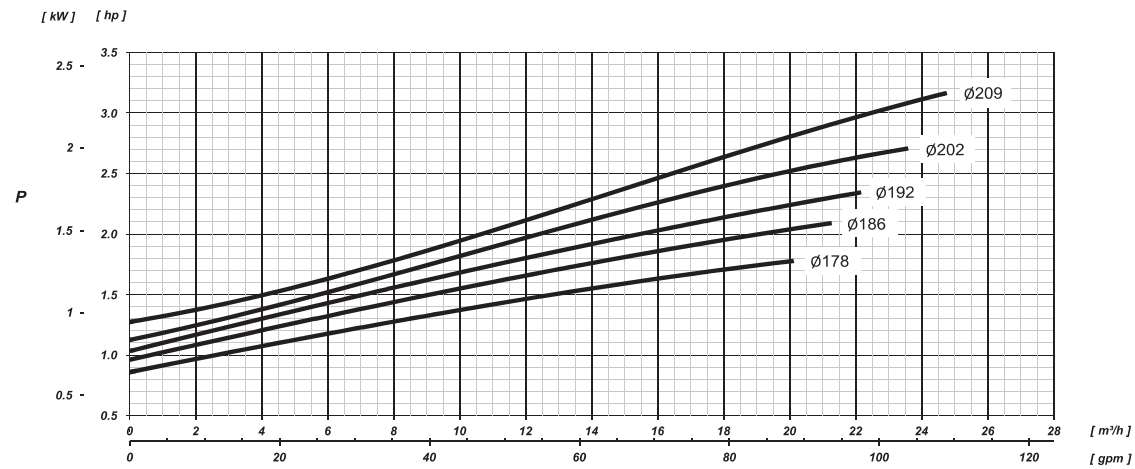
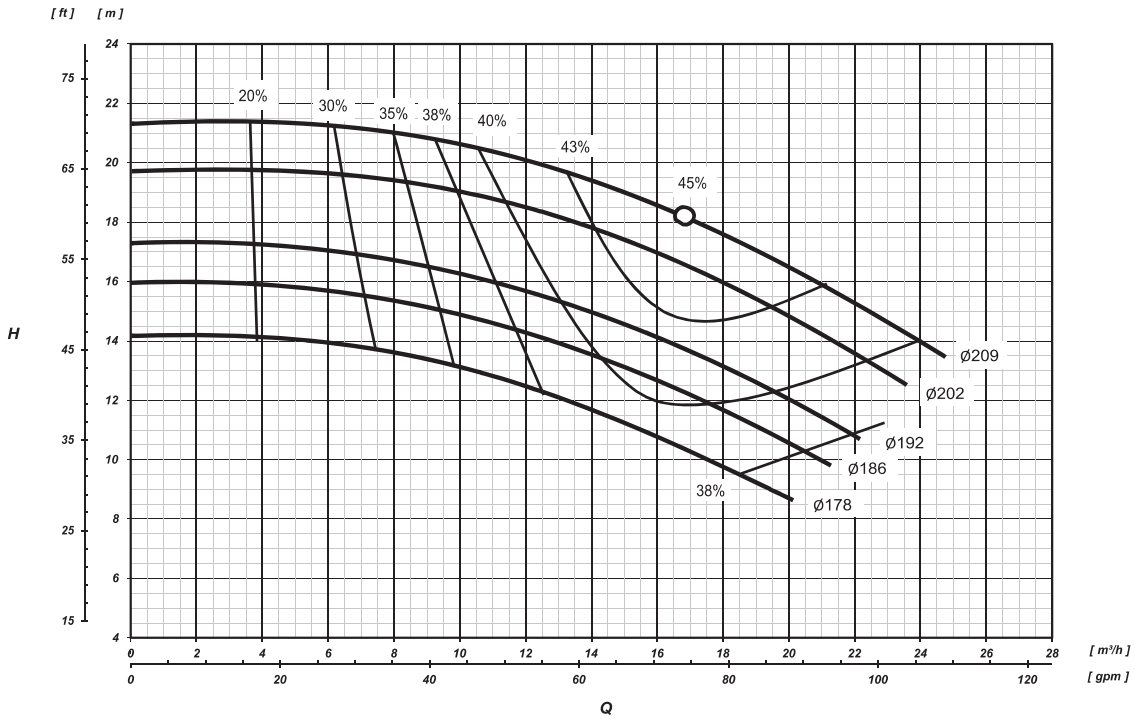
Number/Version August/15 Applies to clean water at 68°F	IMPELLER	Diameter 176/148 mm	Width 5 mm	Suction 50 mm 2"	Discharge 32 mm 1-1/4"	Speed (1/min) 1750 rpm
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TH 32-200

Single Stage Closed Impeller

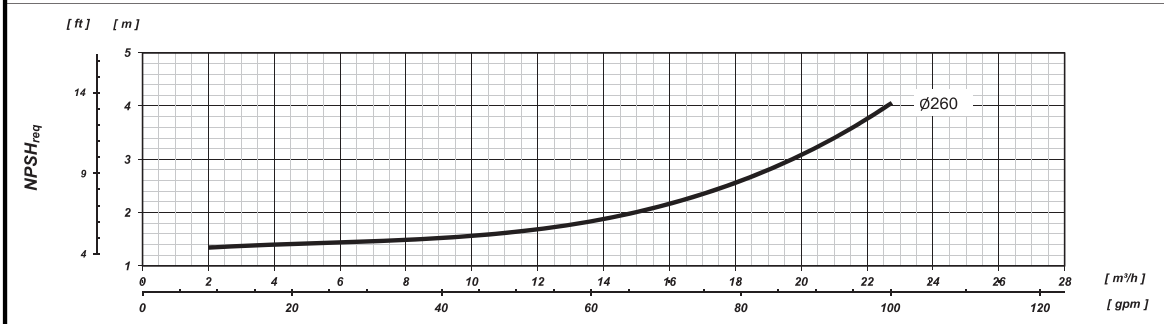
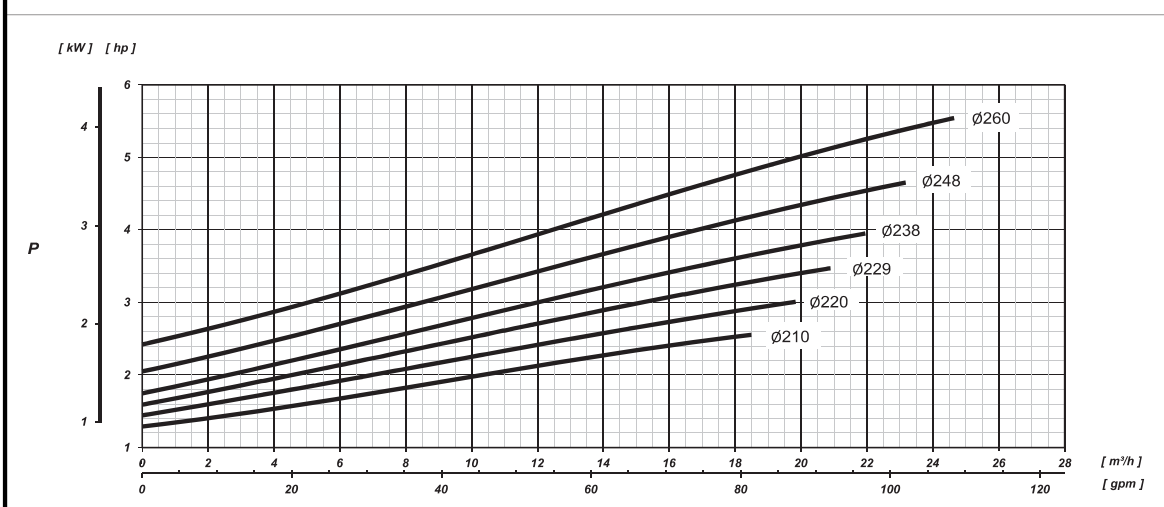
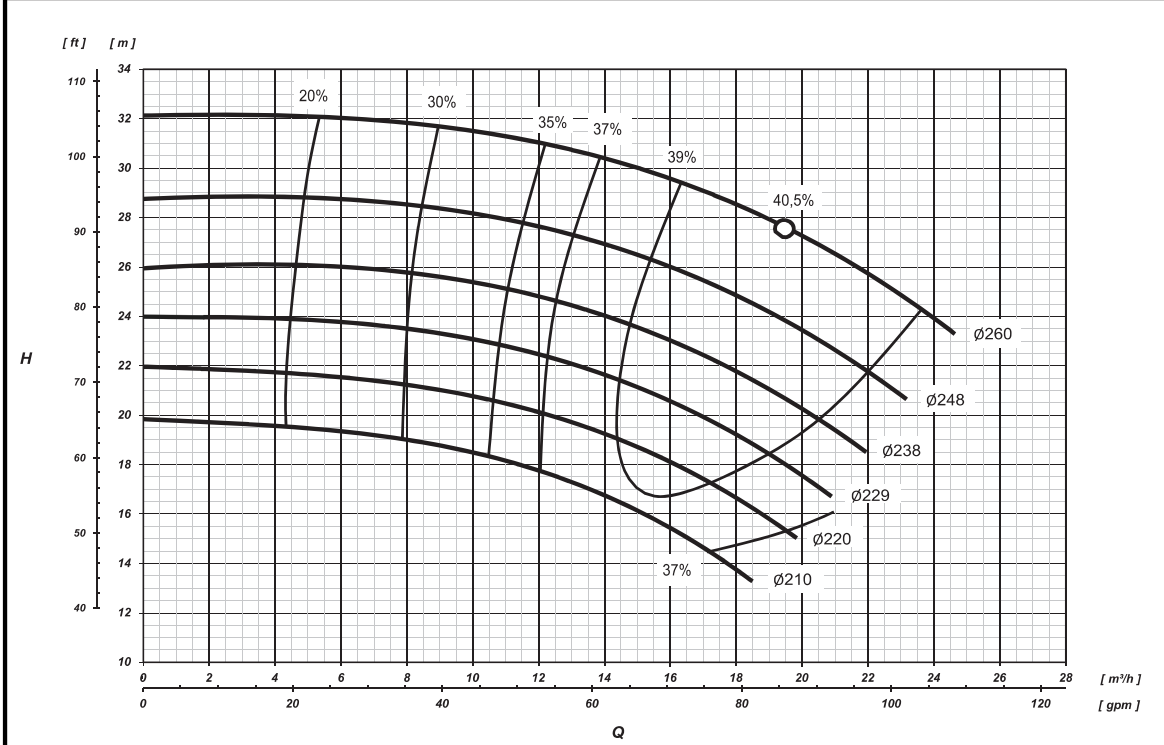
Number/Version May/15 Applies to clean water at 68°F	IMPELLER	Diameter 209/178 mm	Width 7 mm	Suction 50 mm 2"	Discharge 32 mm 1-1/4"	Speed (1/min) 1750 rpm
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TH 32-250.1

Single Stage Closed Impeller

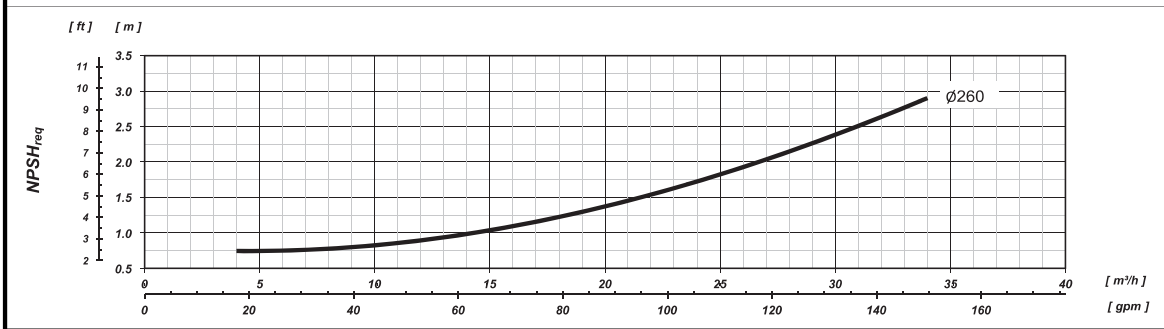
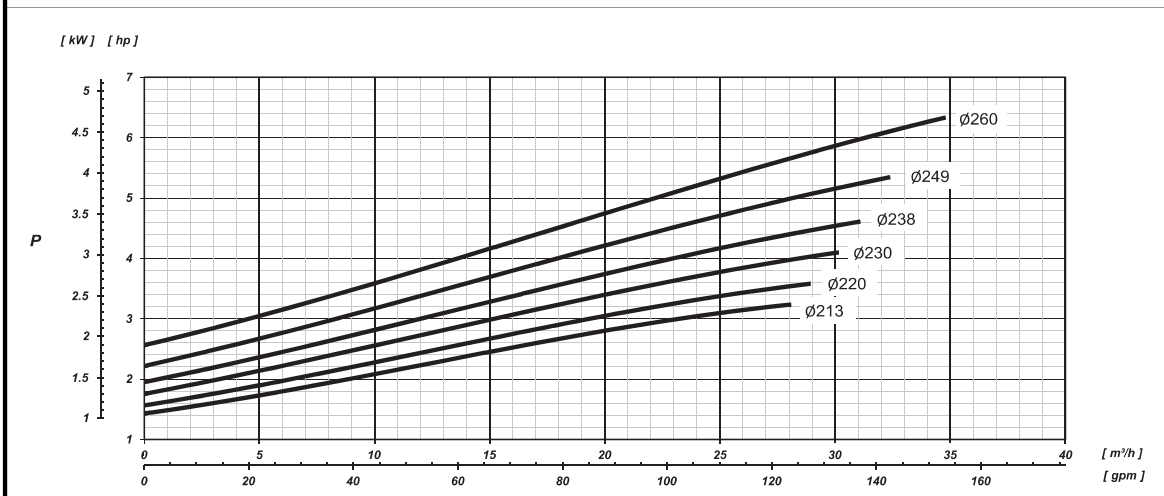
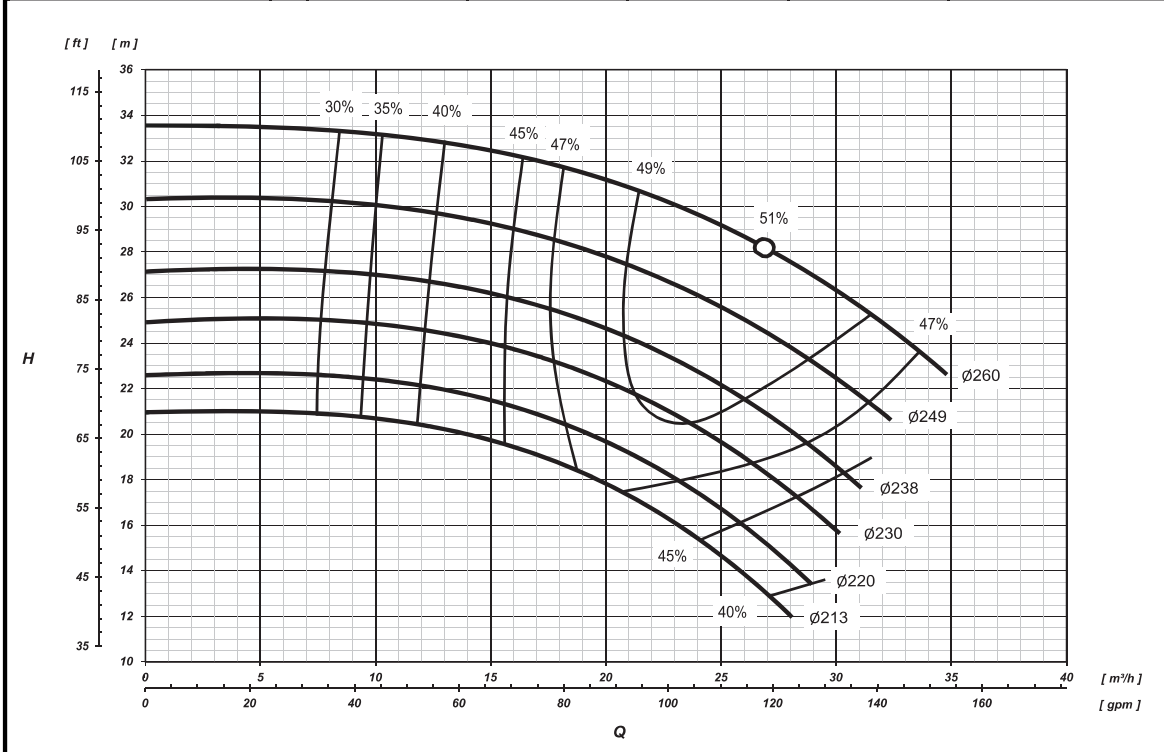
Number/Version <i>February/16</i> Applies to clean water at 68°F	IMPELLER	Diameter 260/210 mm	Width 8 mm	Suction 50 mm 2"	Discharge 32 mm 1-1/4"	Speed (1/min) 1750 rpm
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TH 32-250

Single Stage Closed Impeller

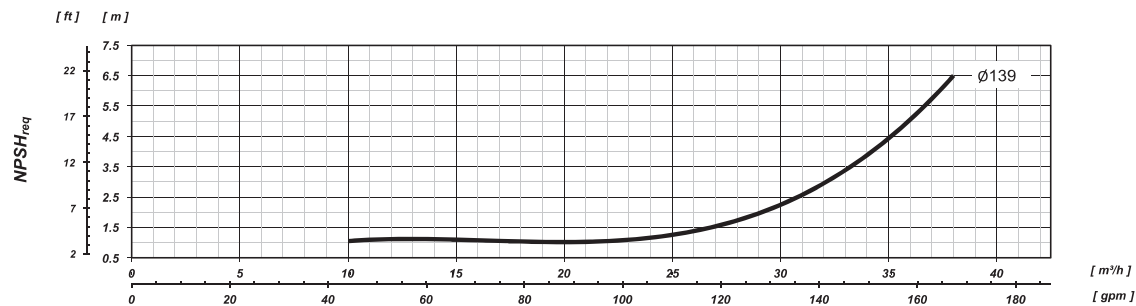
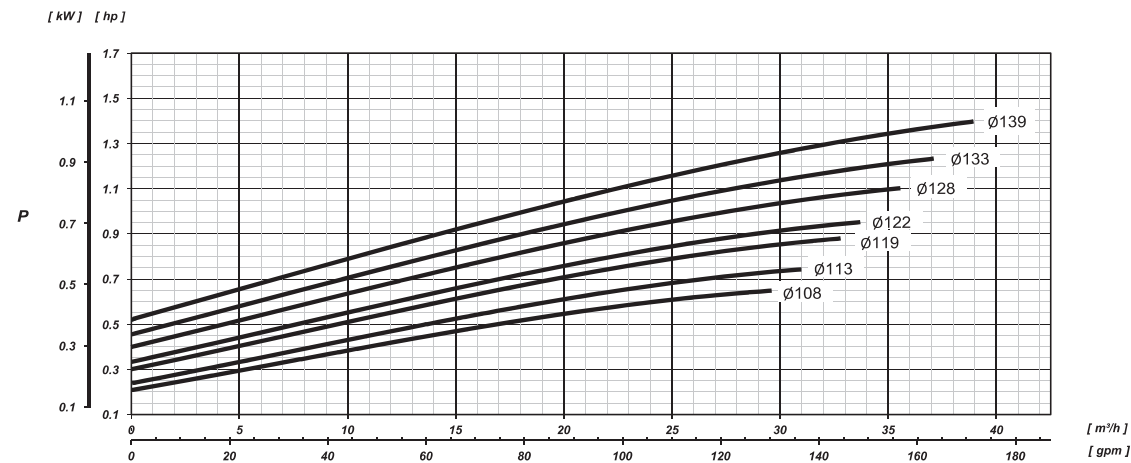
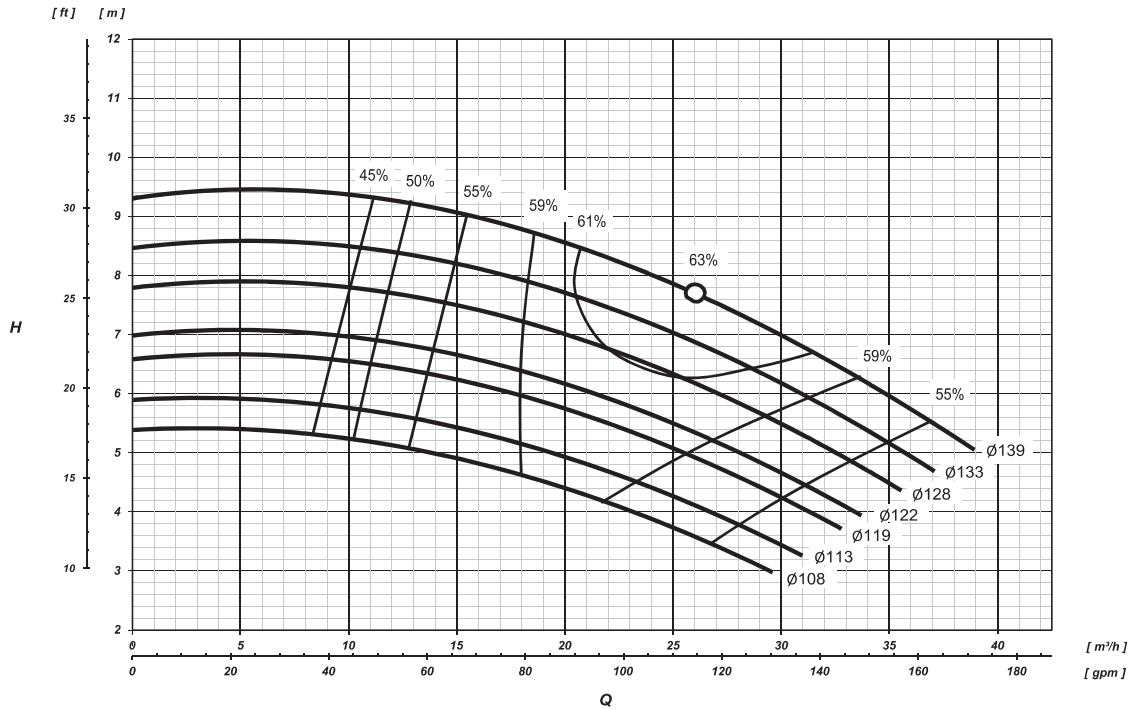
Number/Version	Impeller	Diameter	Width	Suction	Discharge	Speed (1/min)
August/15 Applies to clean water at 68°F	IMPELLER	260/213 mm	8 mm	50 mm 2"	32 mm 1-1/4"	1750 rpm



TH 40-125

Single Stage Closed Impeller

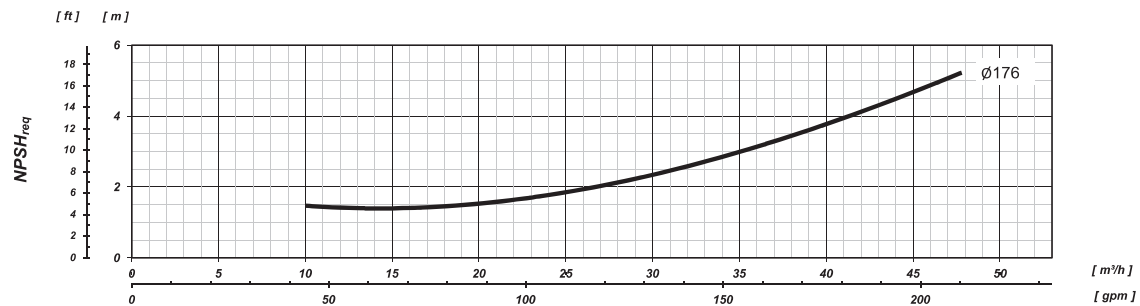
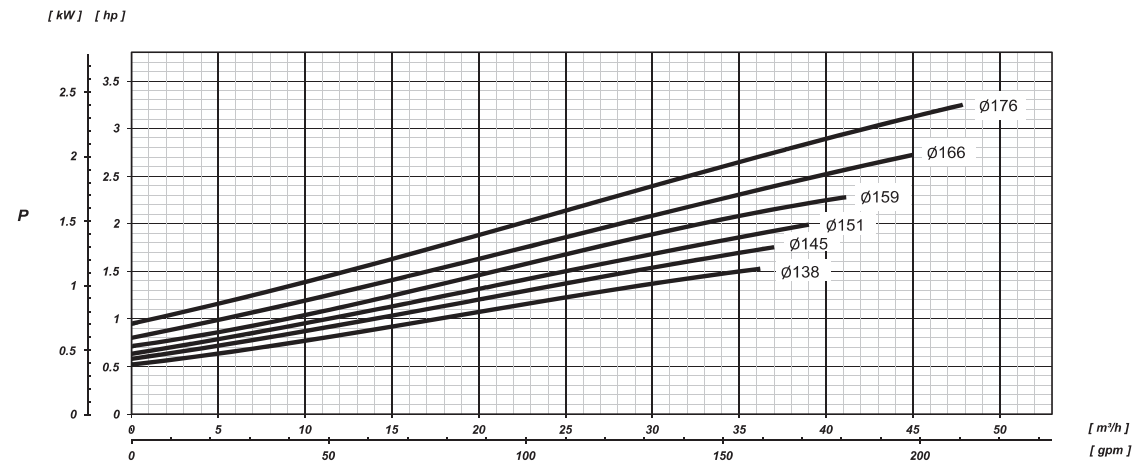
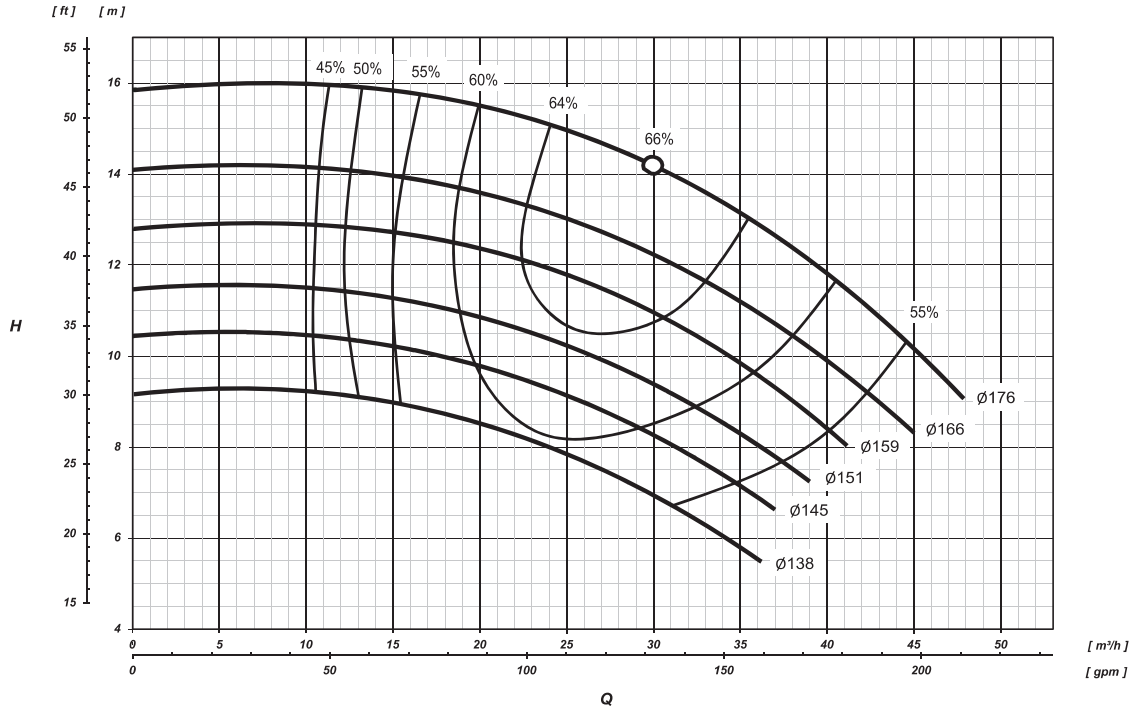
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
August/15 Applies to clean water at 68°F		139/108 mm	14 mm	65 mm 2-1/2"	40 mm 1-1/2"	1750 rpm



TH 40-160

Single Stage Closed Impeller

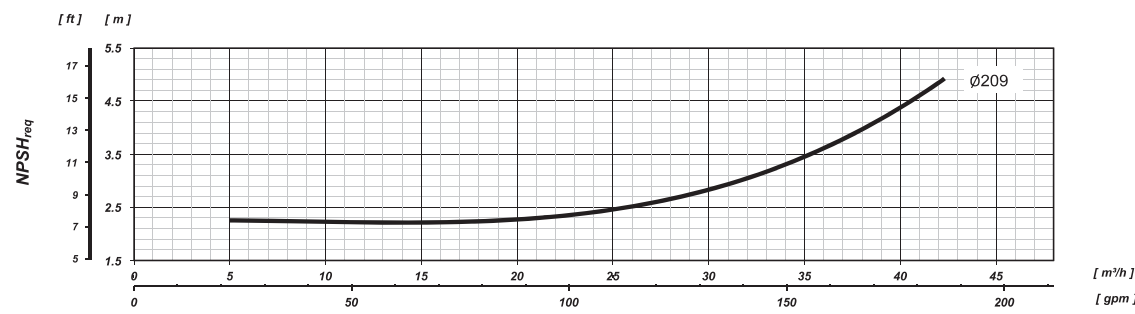
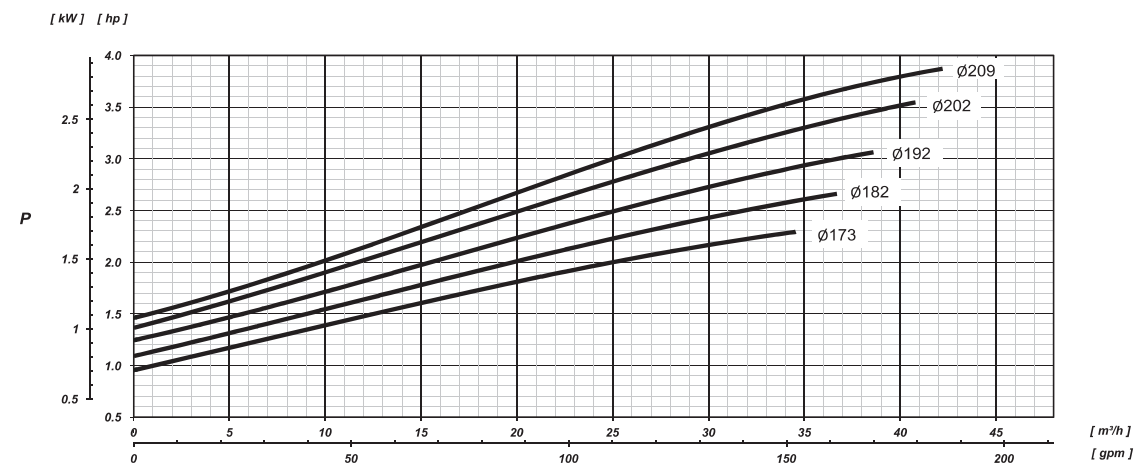
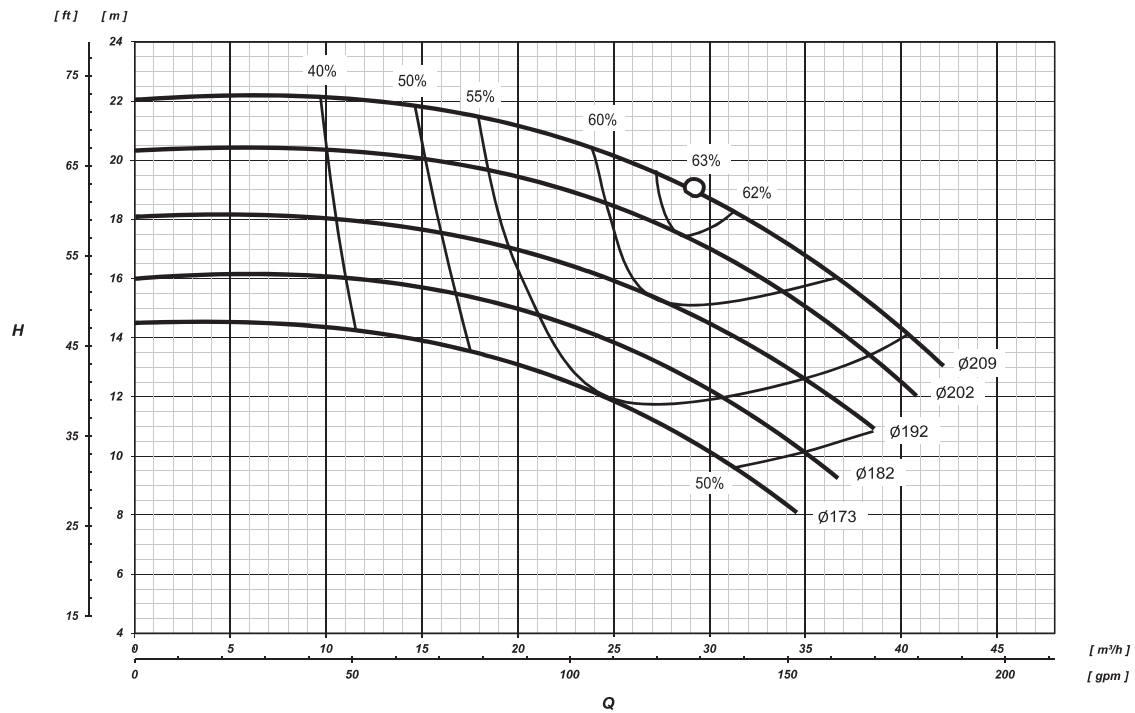
Number/version	IMPELLER	Diameter	width	Suction	Discharge	Speed (1/min)
August/15 Applies to clean water at 68°F		176/138 mm	12 mm	65 mm 2-1/2"	40 mm 1-1/2"	1750 rpm



TH 40-200

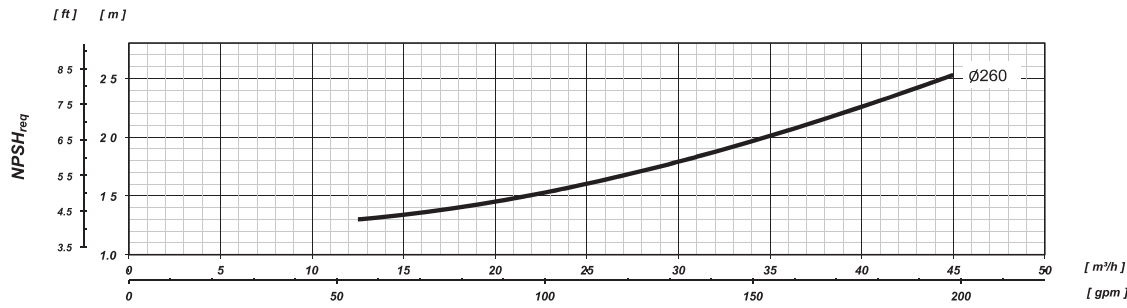
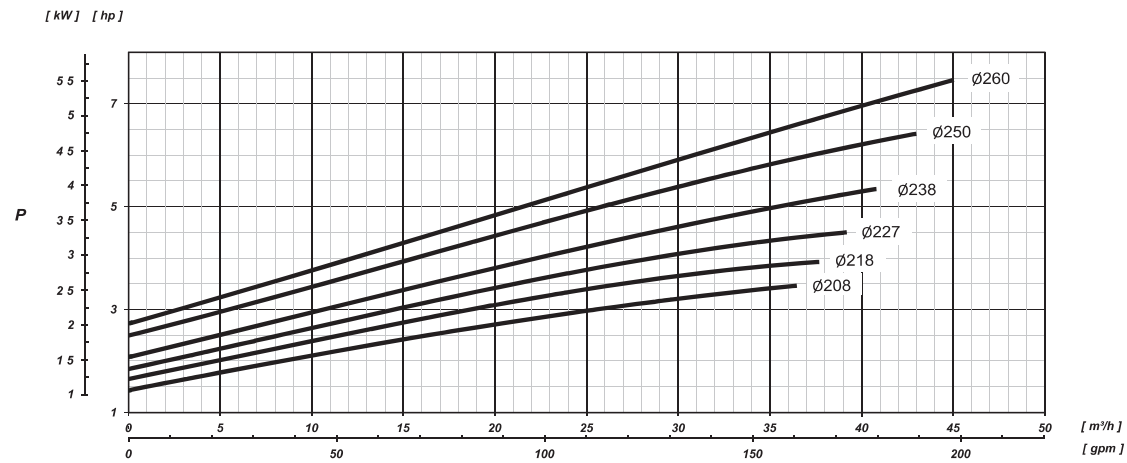
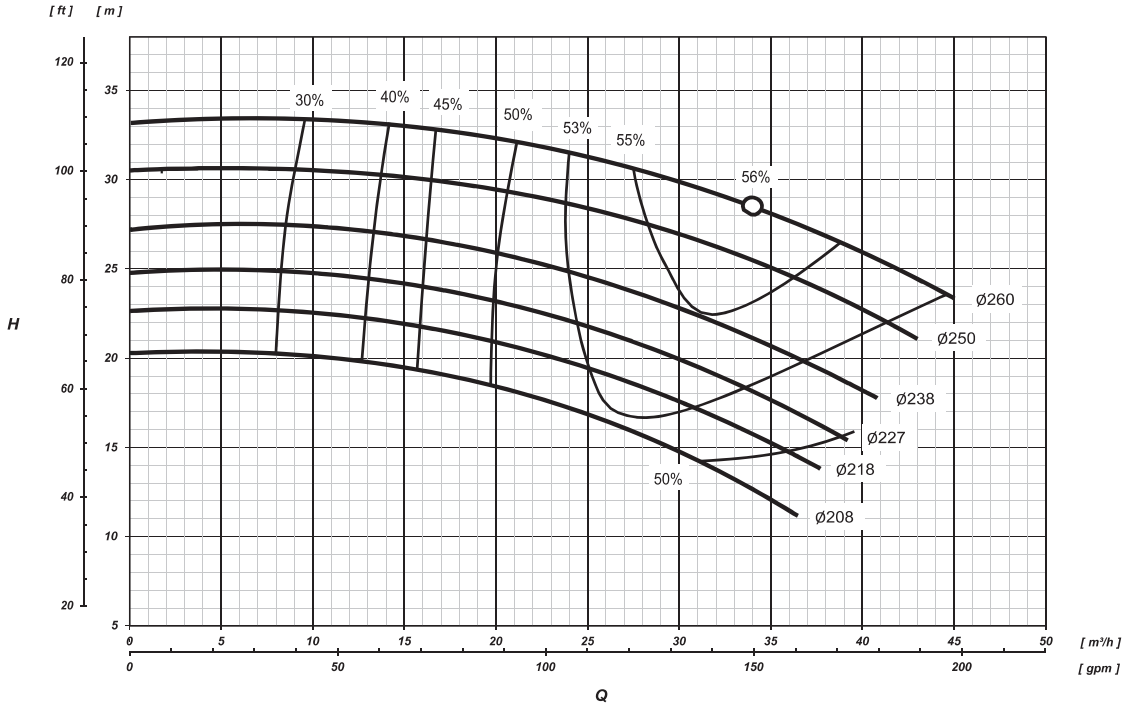
Single Stage Closed Impeller

Number/Version	Impeller	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F	IMPELLER	209/173 mm	9 mm	65 mm 2-1/2"	40 mm 1-1/2"	1750 rpm



TH 40-250 Single Stage Closed Impeller

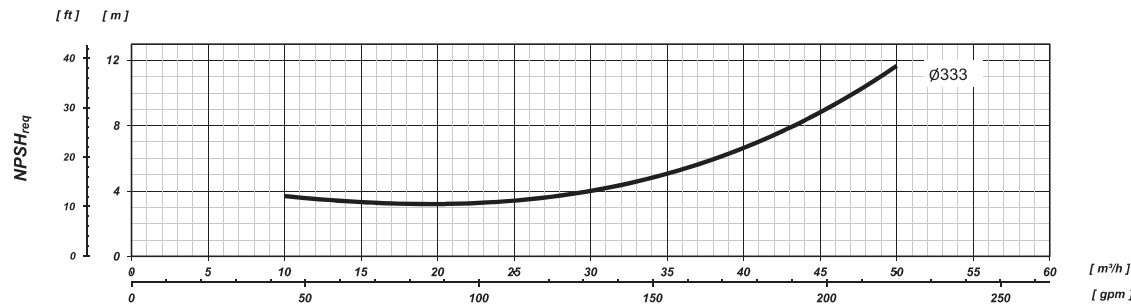
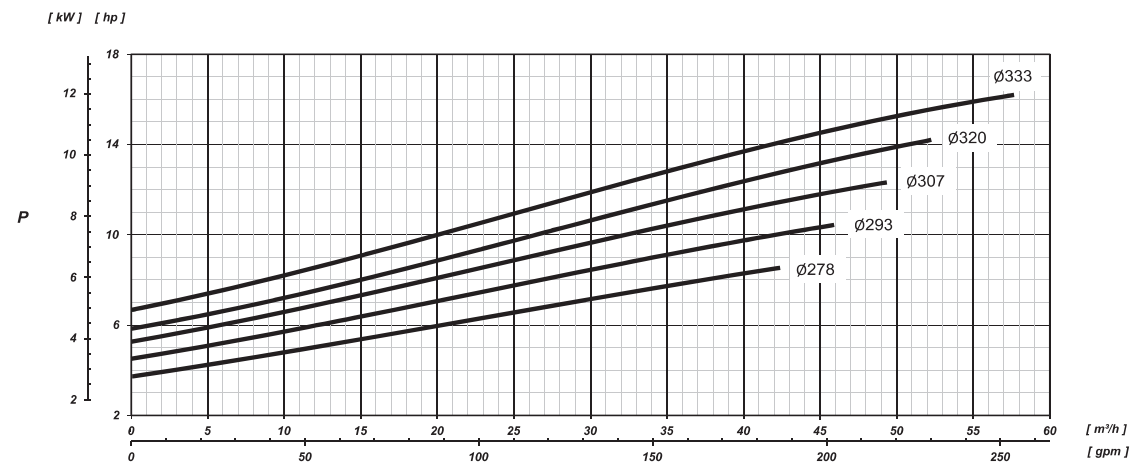
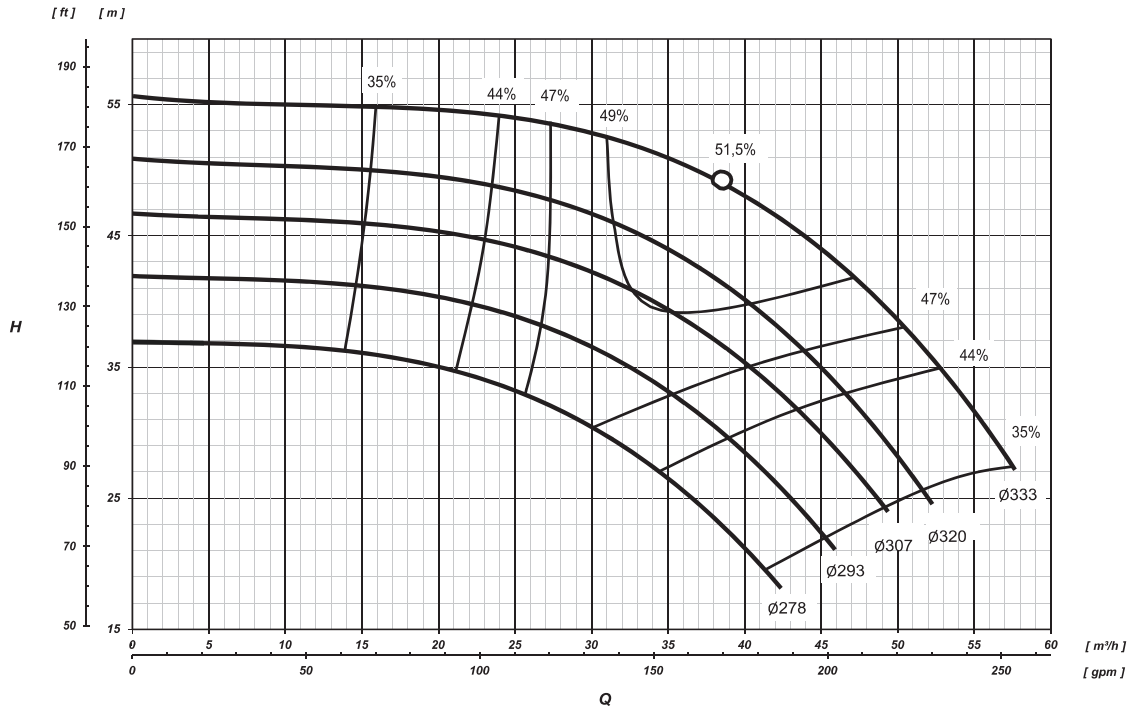
Number/Version September/15 Applies to clean water at 68°F	IMPELLER	Diameter 260/208 mm	Width 8 mm	Suction 65 mm 2 1/2"	Discharge 40 mm 1 1/2"	Speed (1/min) 1750 rpm
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TH 40-315

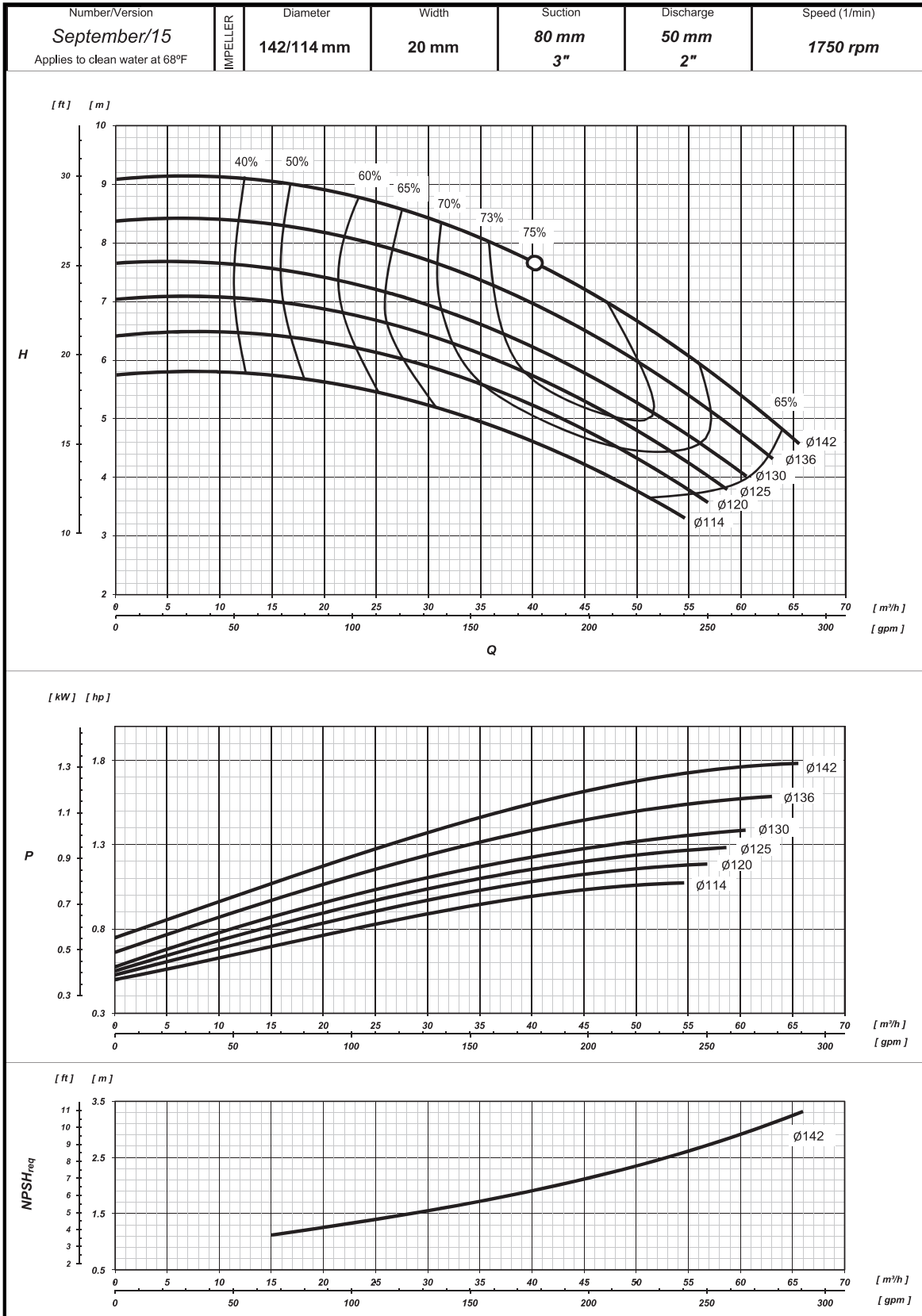
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		333/278 mm	9 mm	65 mm 2-1/2"	40 mm 1-1/2"	1750 rpm



TH 50-125

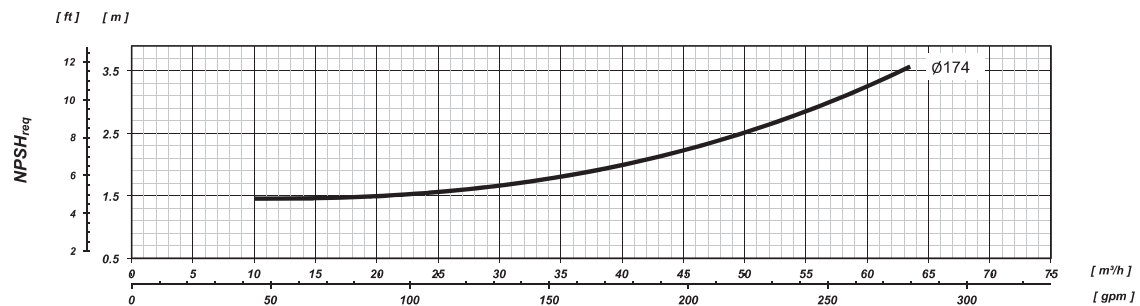
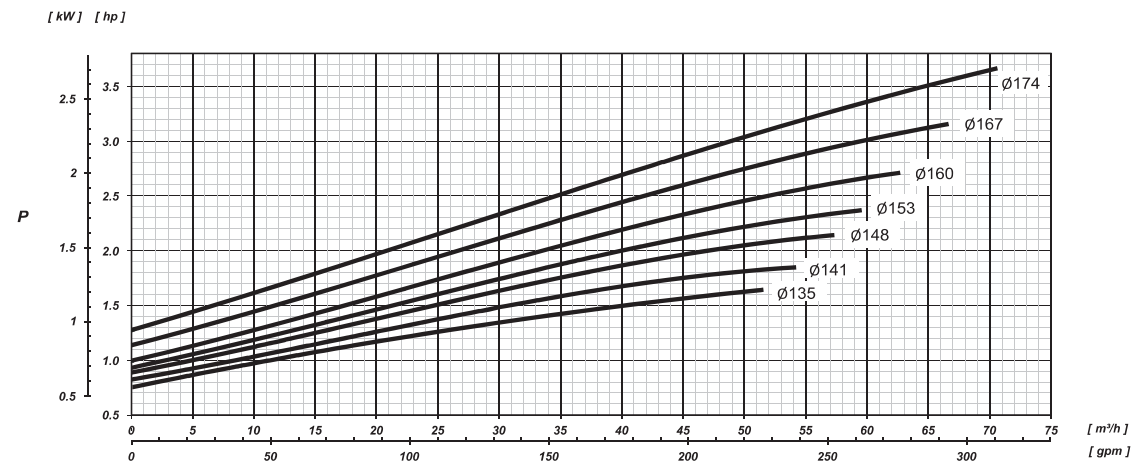
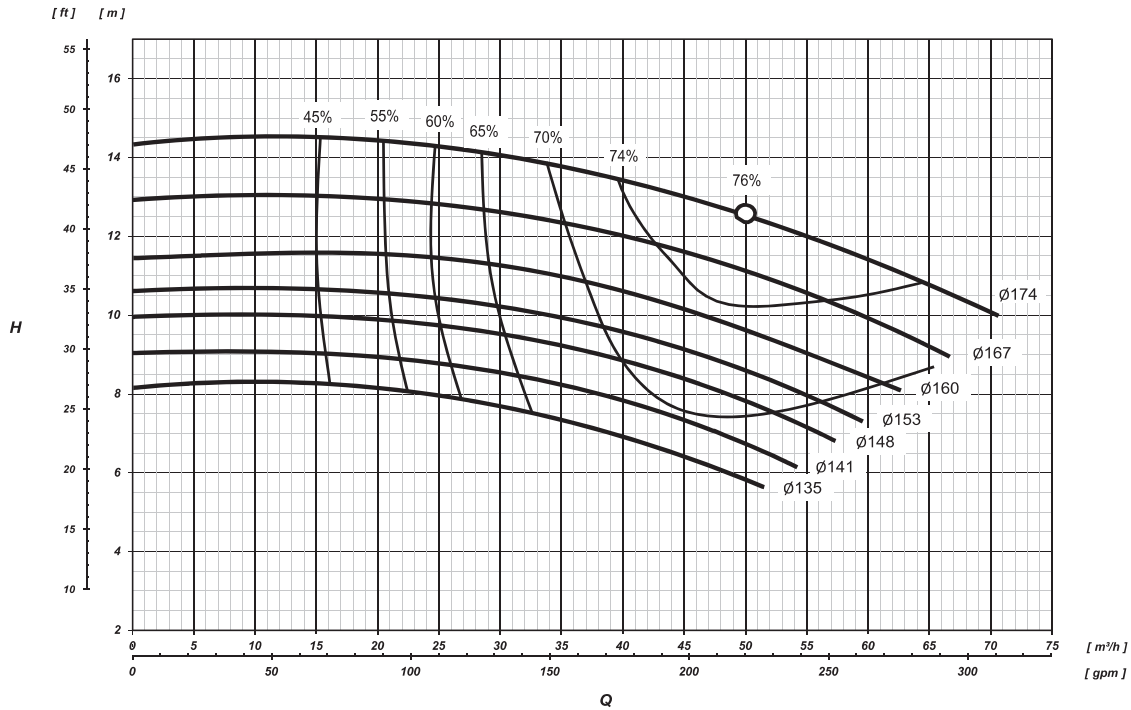
Single Stage Closed Impeller



TH 50-160

Single Stage Closed Impeller

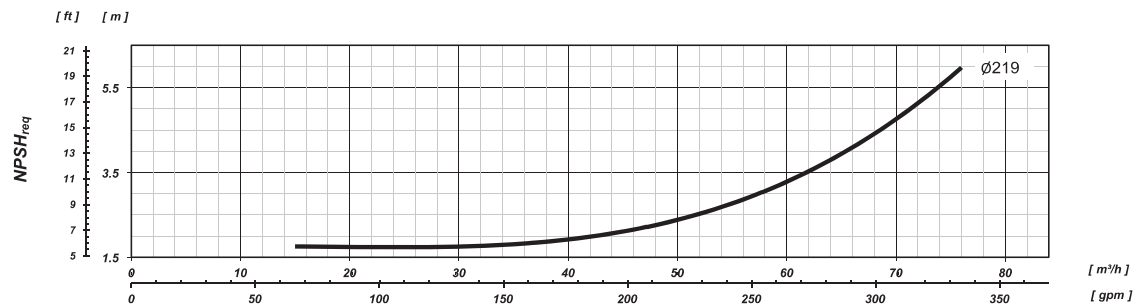
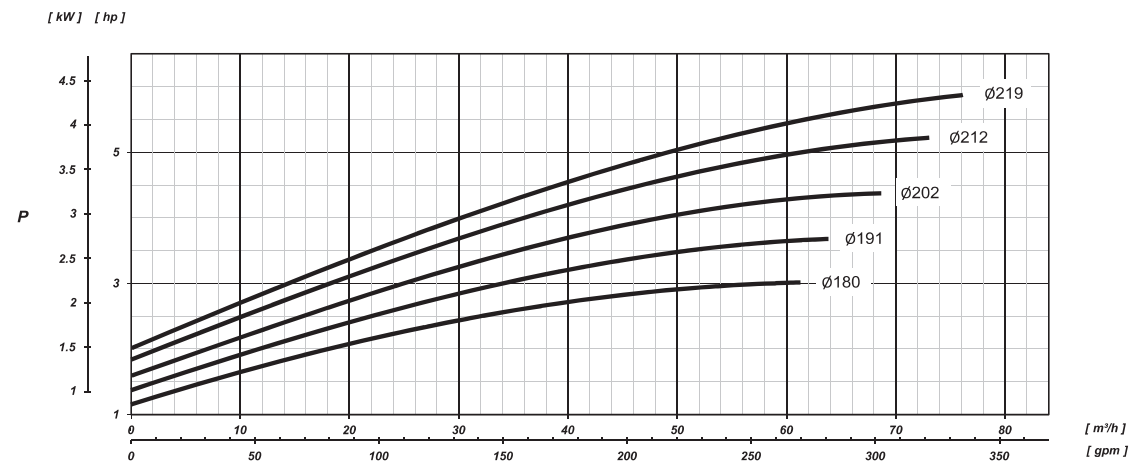
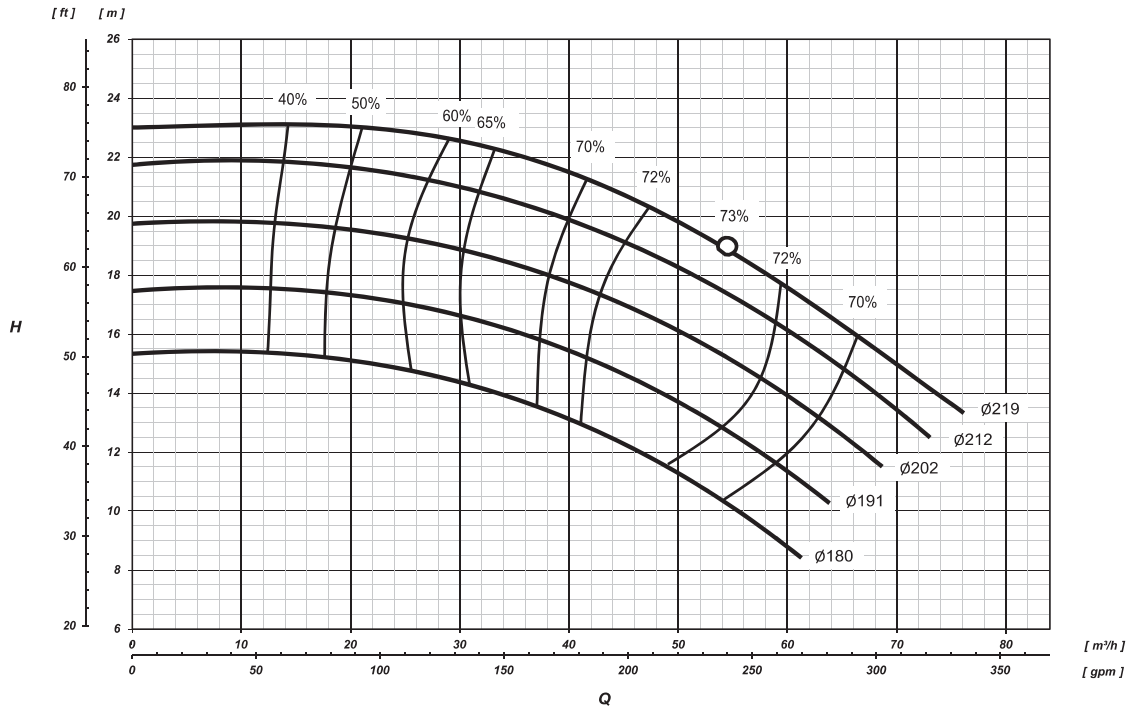
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		174/135 mm	16 mm	80 mm 3"	50 mm 2"	1750 rpm



TH 50-200

Single Stage Closed Impeller

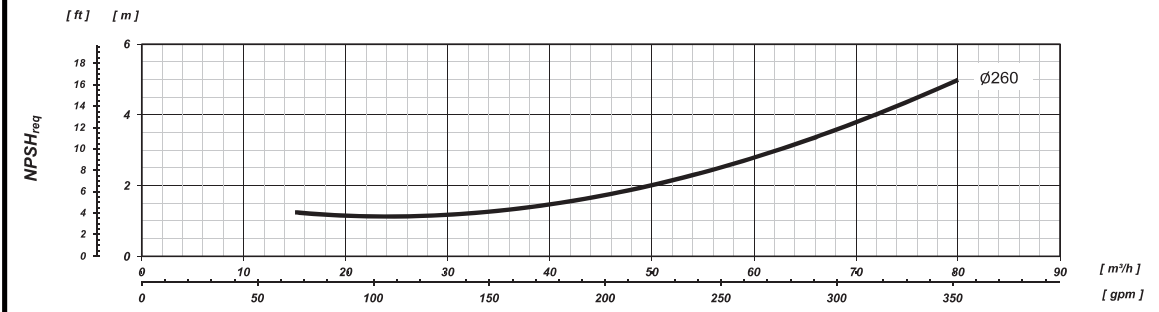
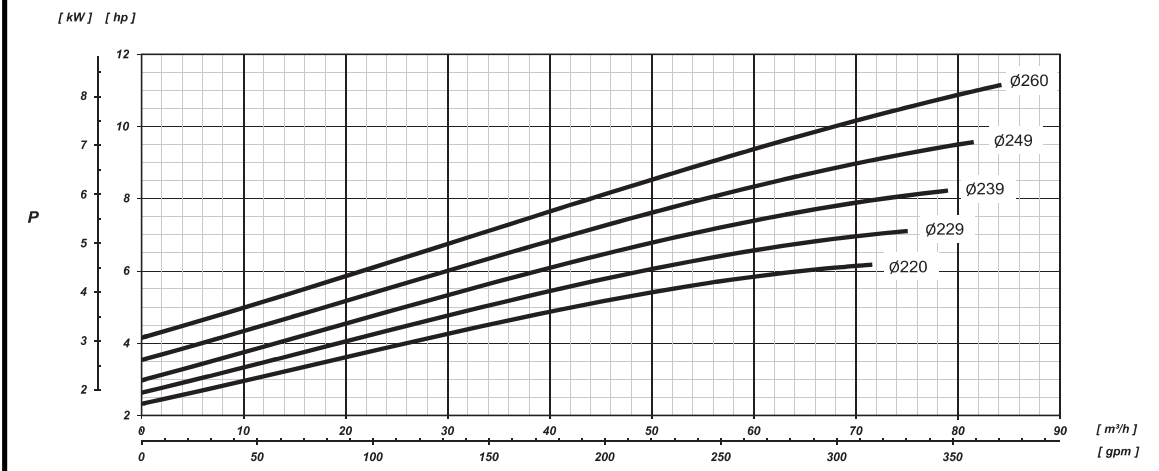
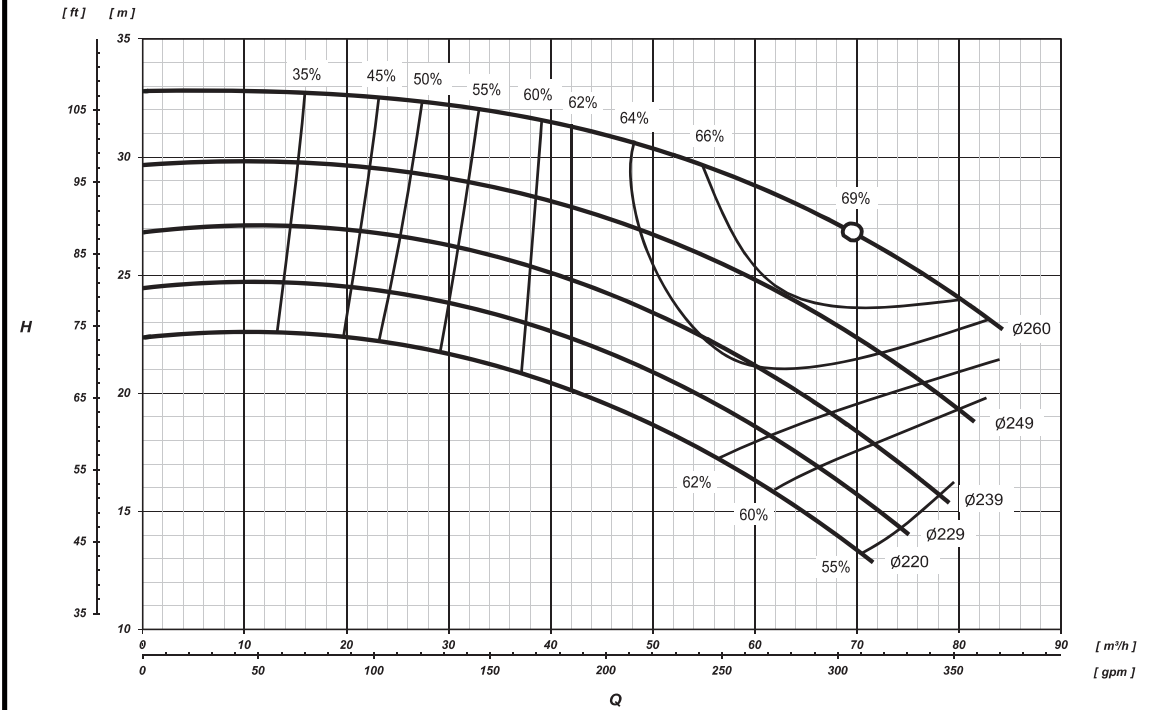
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		219/180 mm	11 mm	80 mm 3"	50 mm 2"	1750 rpm



TH 50-250

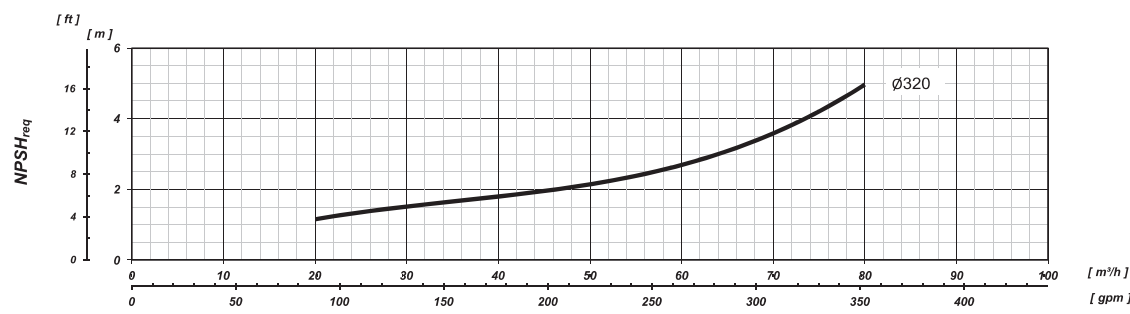
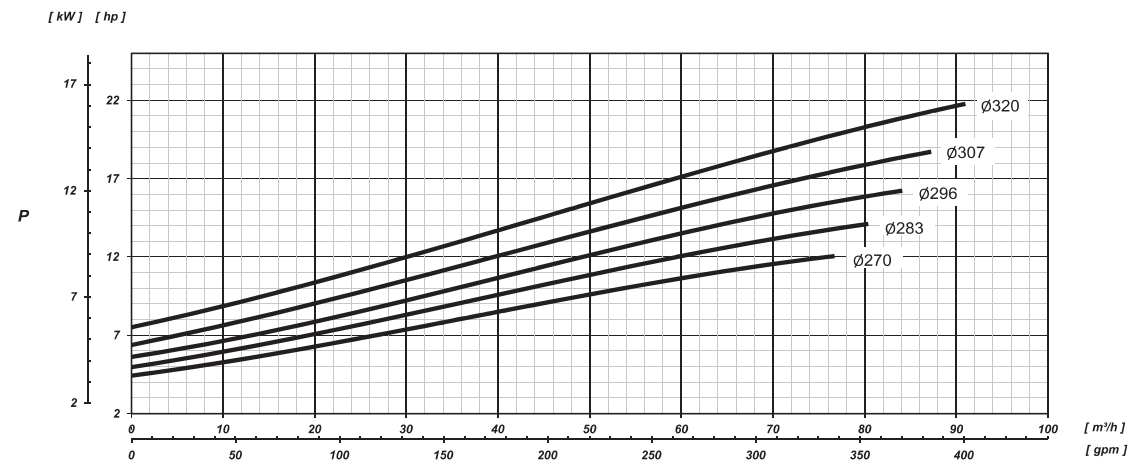
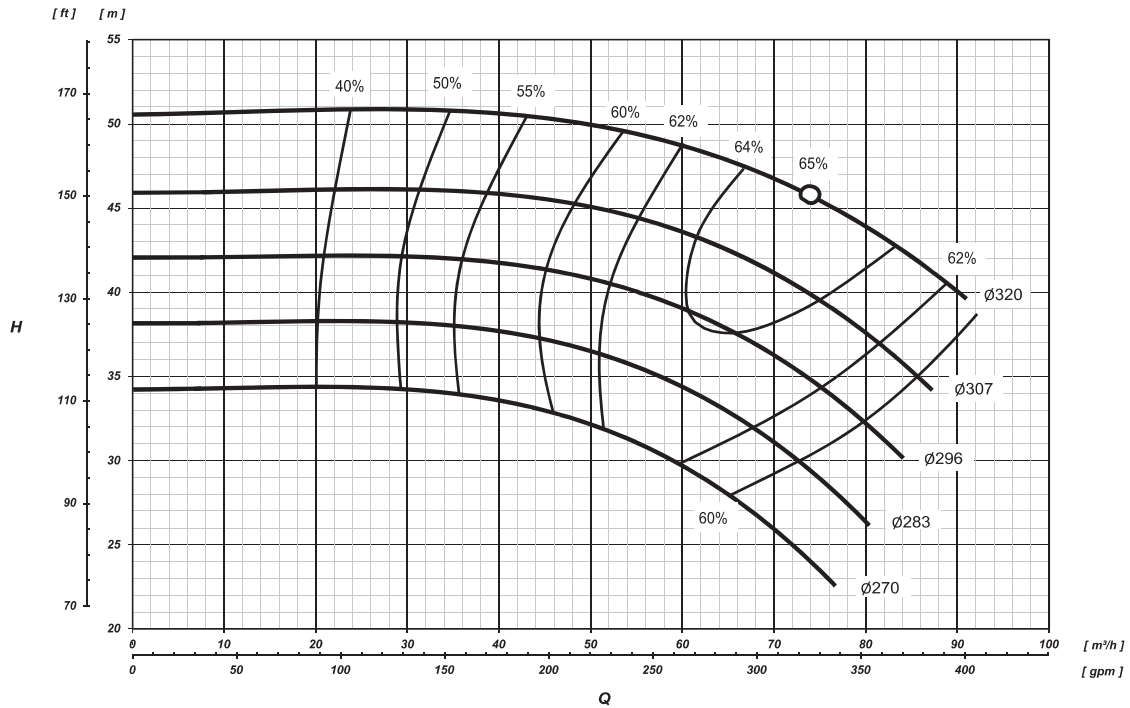
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		260/220 mm	12 mm	80 mm 3"	50 mm 2"	1750 rpm



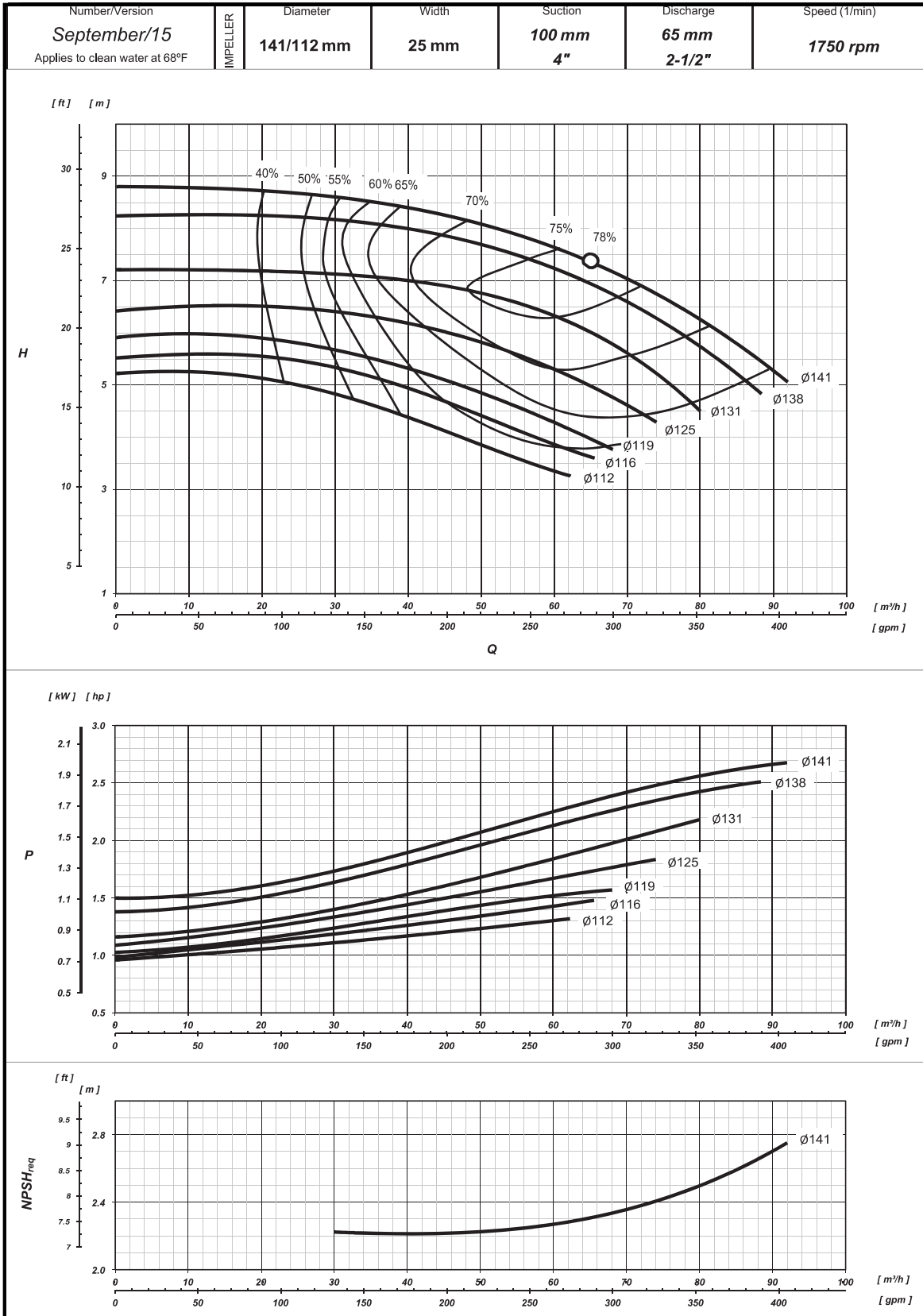
TH 50-315 Single Stage Closed Impeller

Number/Version February/16 Applies to clean water at 68°F	IMPELLER	Diameter 320/270 mm	Width 9 mm	Suction 80 mm 3"	Discharge 50 mm 2"	Speed (1/min) 1750 rpm
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TH 65-125

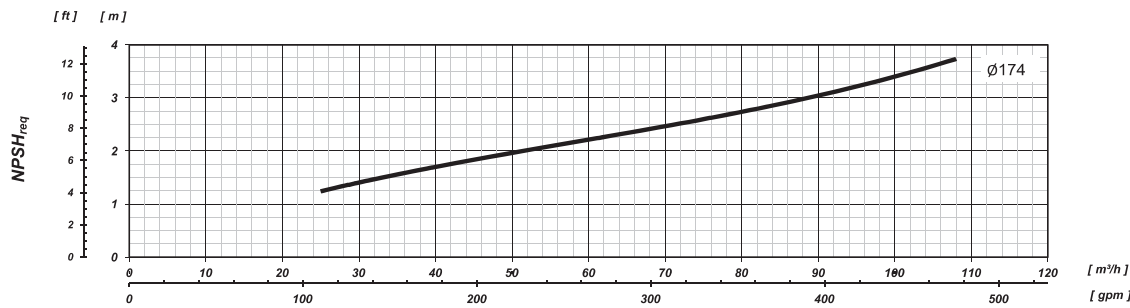
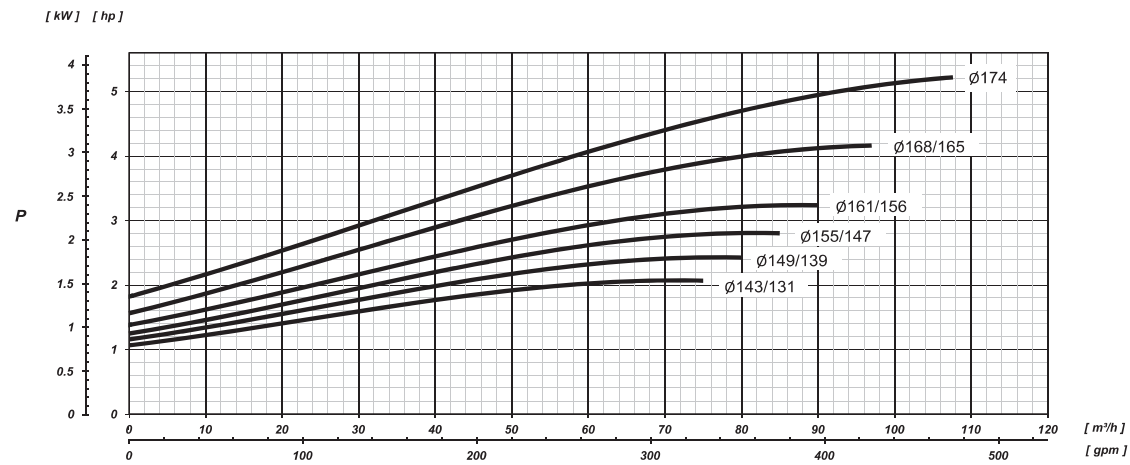
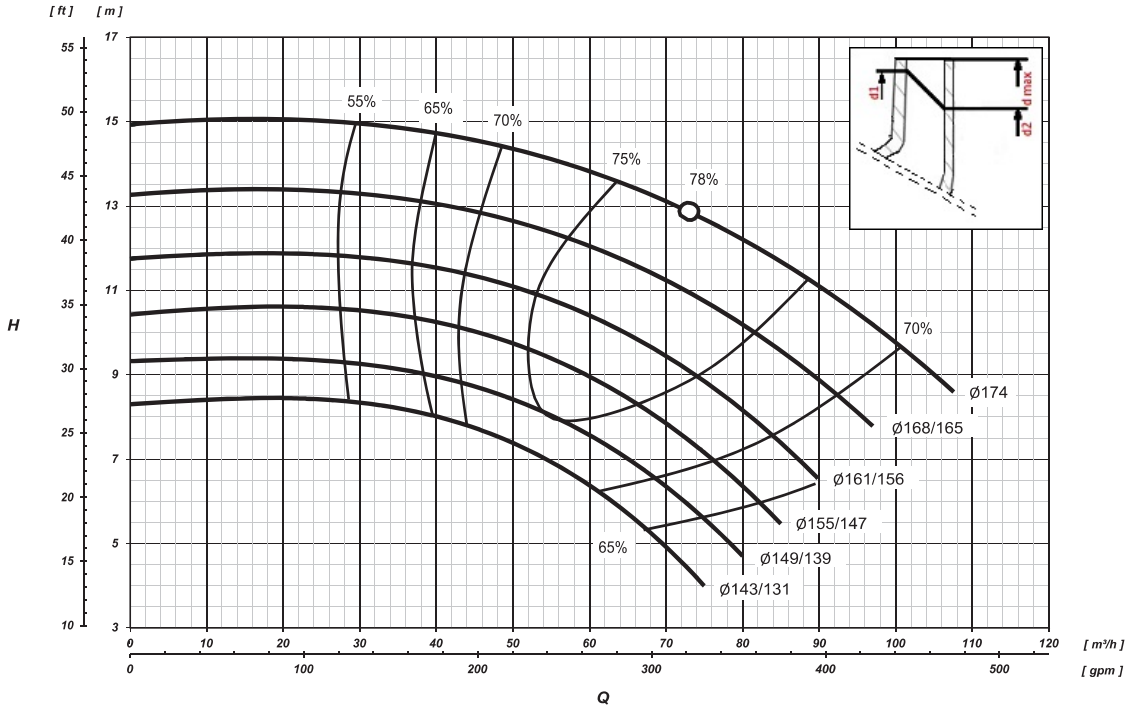
Single Stage Closed Impeller



TH 65-160

Single Stage Closed Impeller

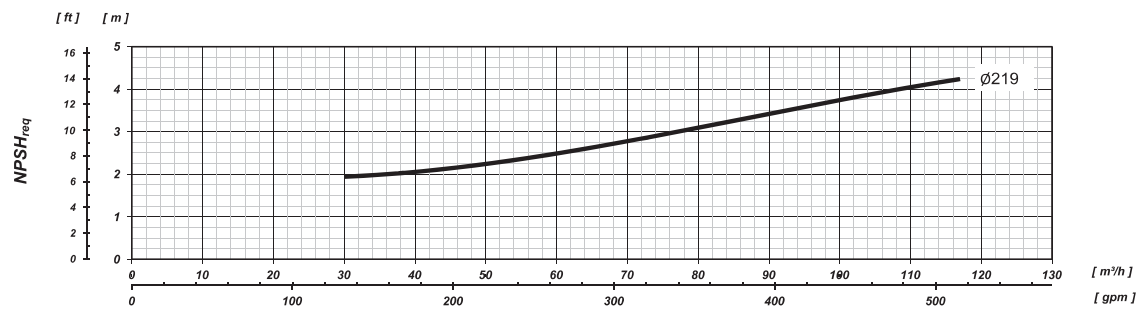
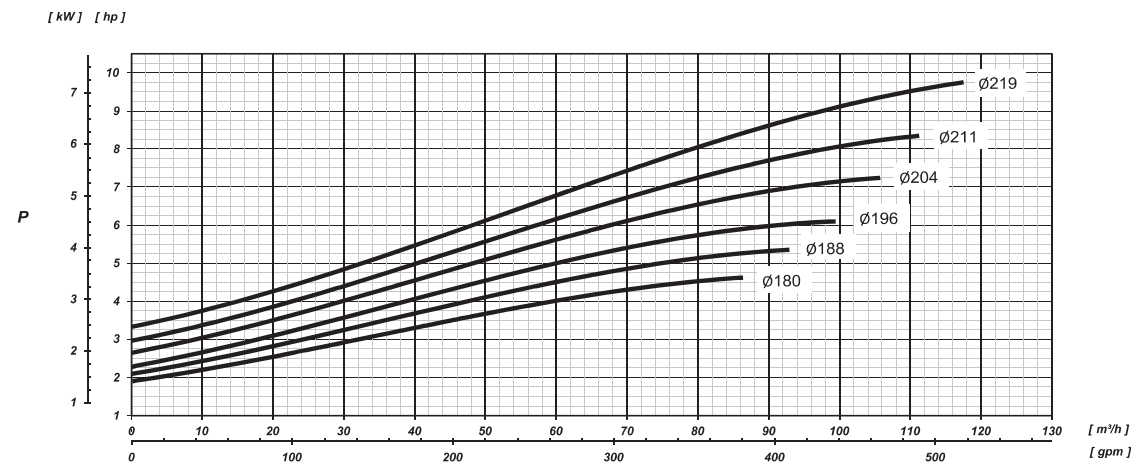
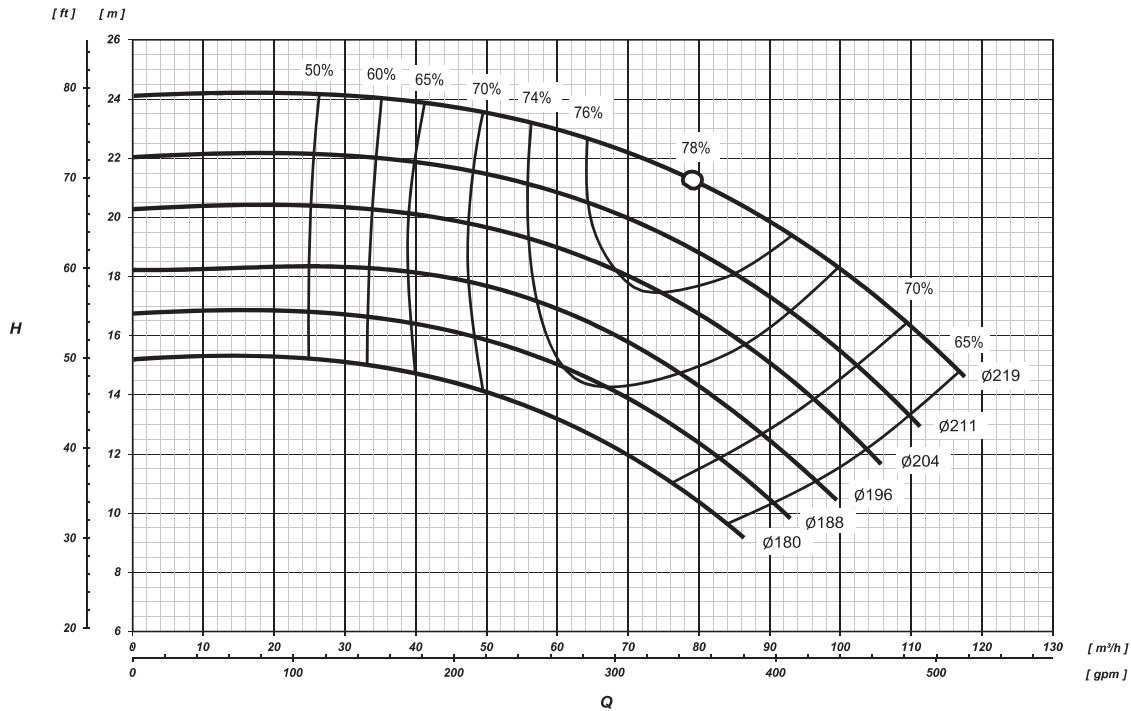
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		174/131 mm	21 mm	100 mm 4"	65 mm 2-1/2"	1750 rpm



TH 65-200

Single Stage Closed Impeller

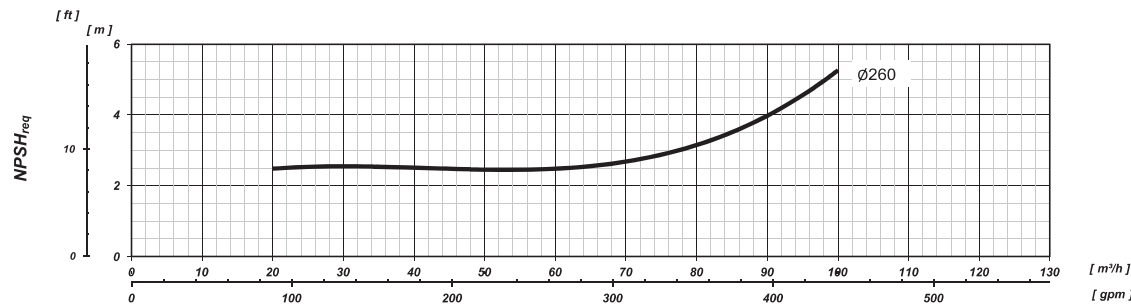
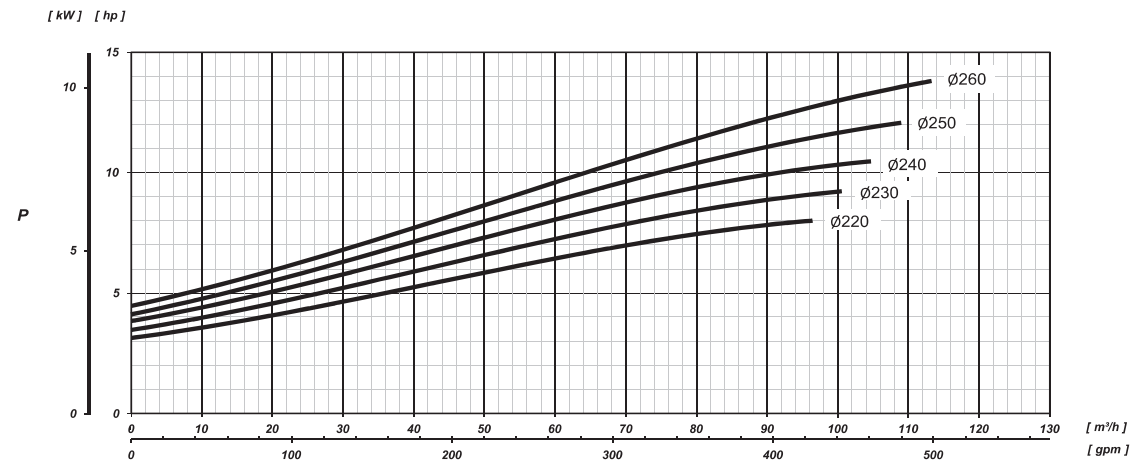
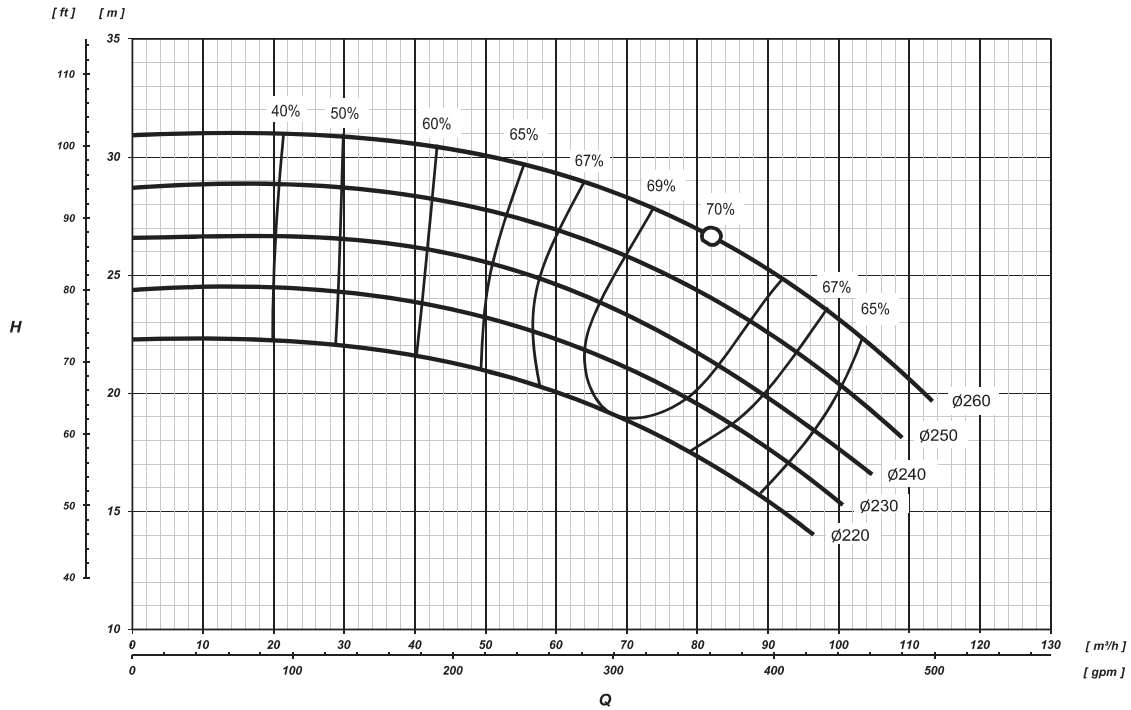
Number/Version September/15 Applies to clean water at 68°F	IMPELLER	Diameter 219/180 mm	Width 11 mm	Suction 100 mm 4"	Discharge 65 mm 2-1/2"	Speed (1/min) 1750 rpm
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TH 65-250

Single Stage Closed Impeller

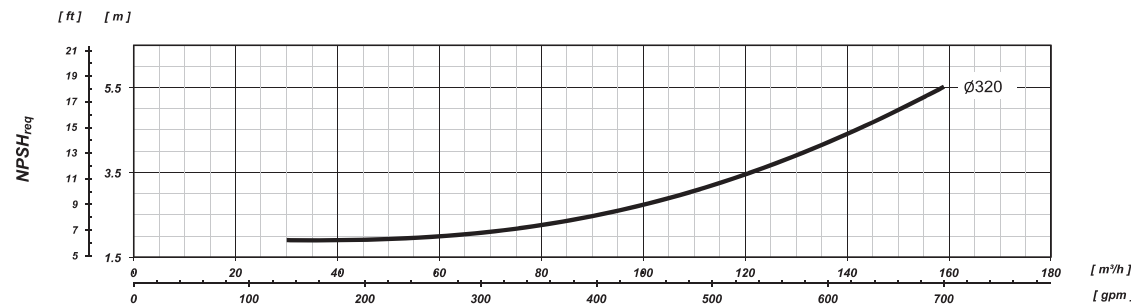
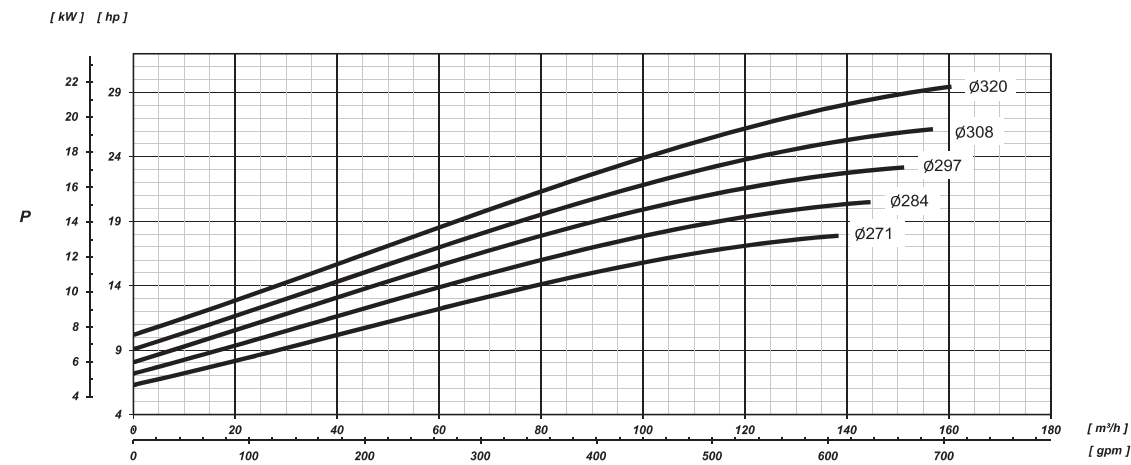
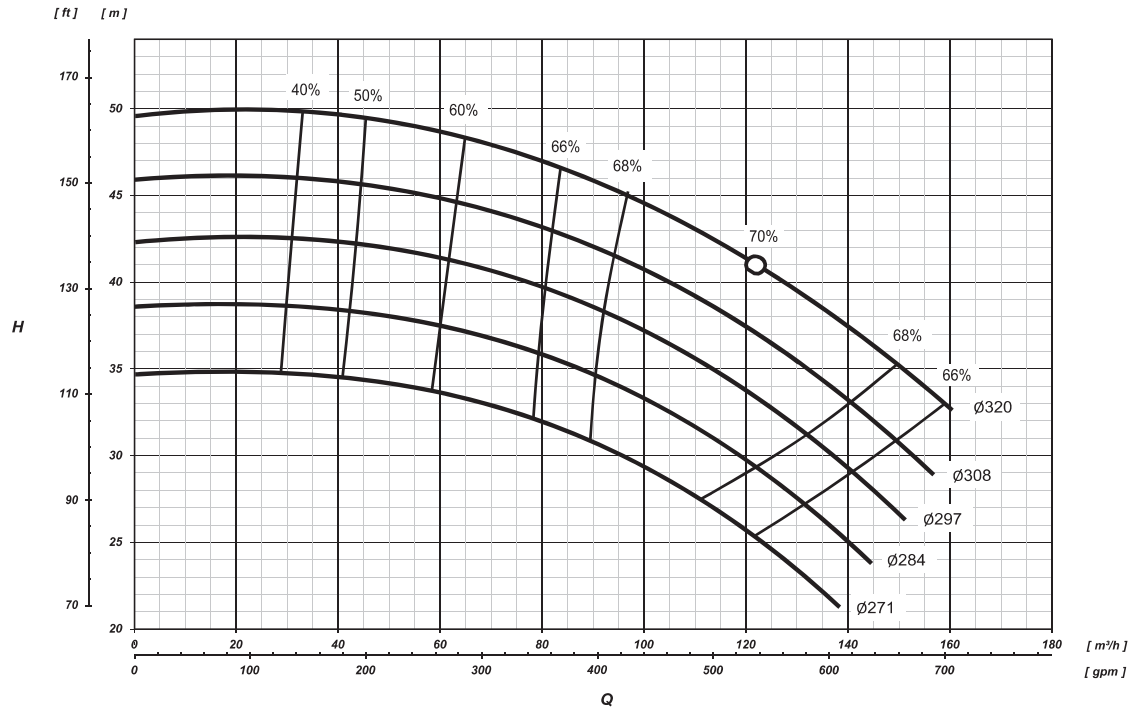
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
January/16 Applies to clean water at 68°F		260/220 mm	13 mm	100 mm 4"	65 mm 2-1/2"	1750 rpm



TH 65-315

Single Stage Closed Impeller

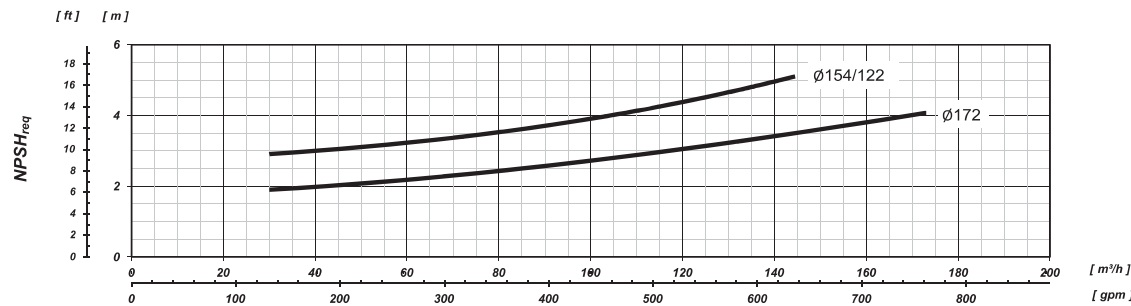
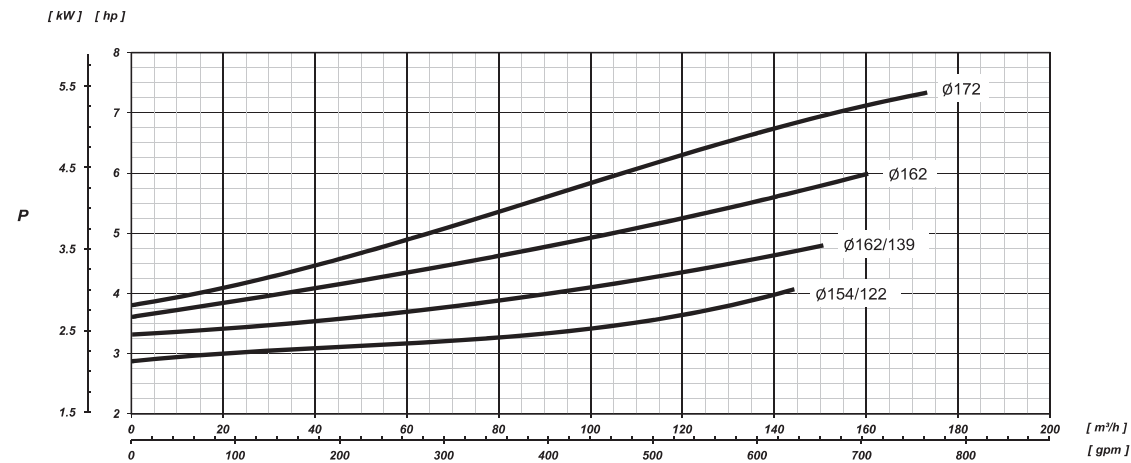
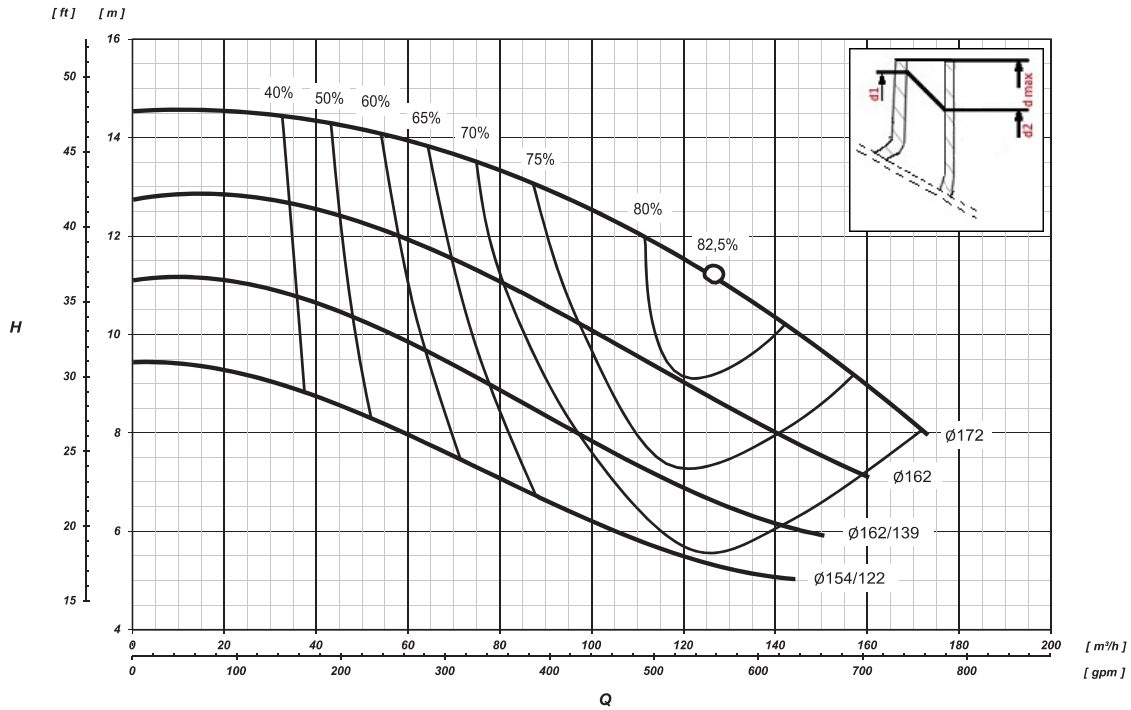
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		320/271 mm	13 mm	100 mm 4"	65 mm 2-1/2"	1750 rpm



TH 80-160

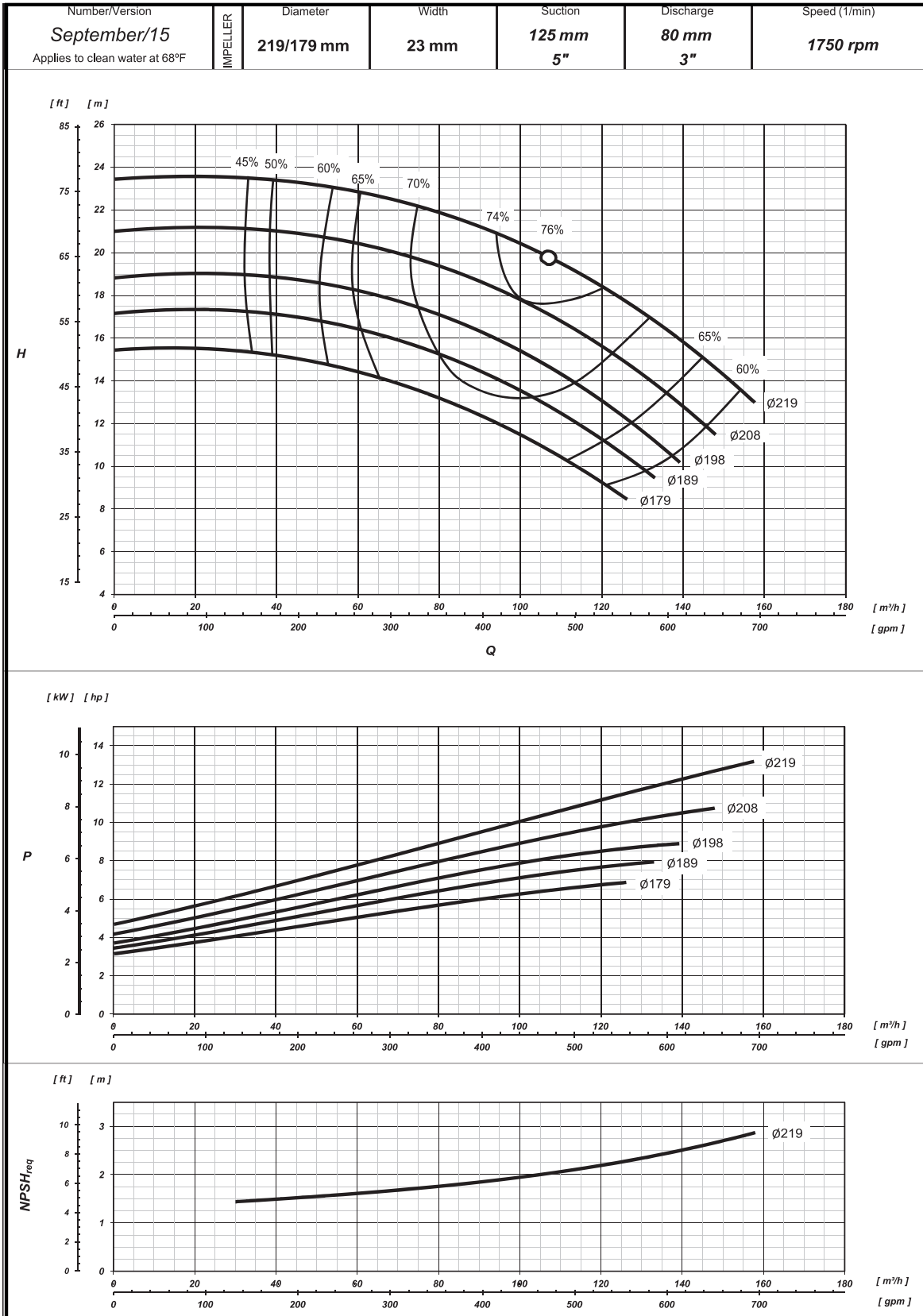
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		172/122 mm	31 mm	125 mm 5"	80 mm 3"	1750 rpm



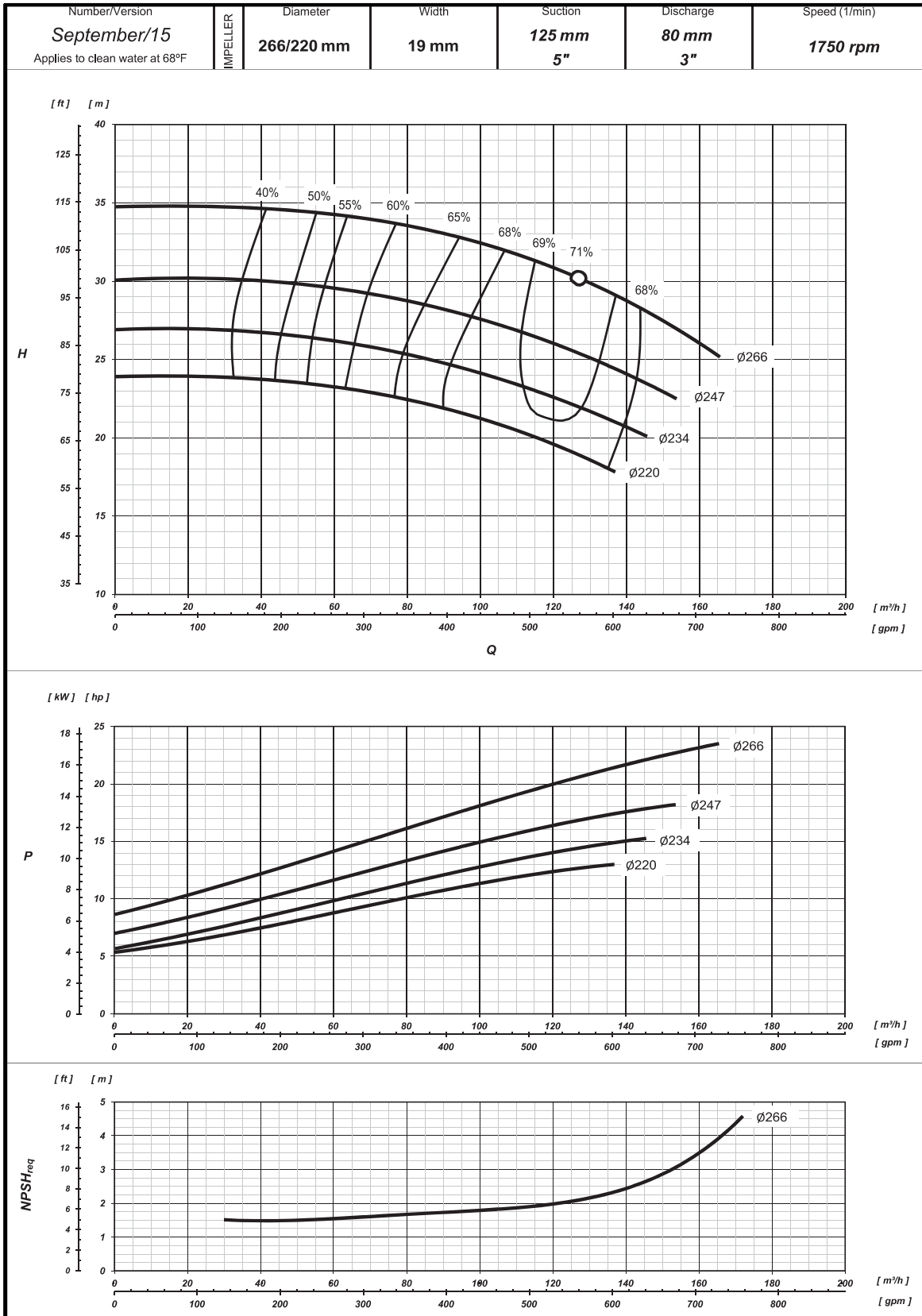
TH 80-200

Single Stage Closed Impeller



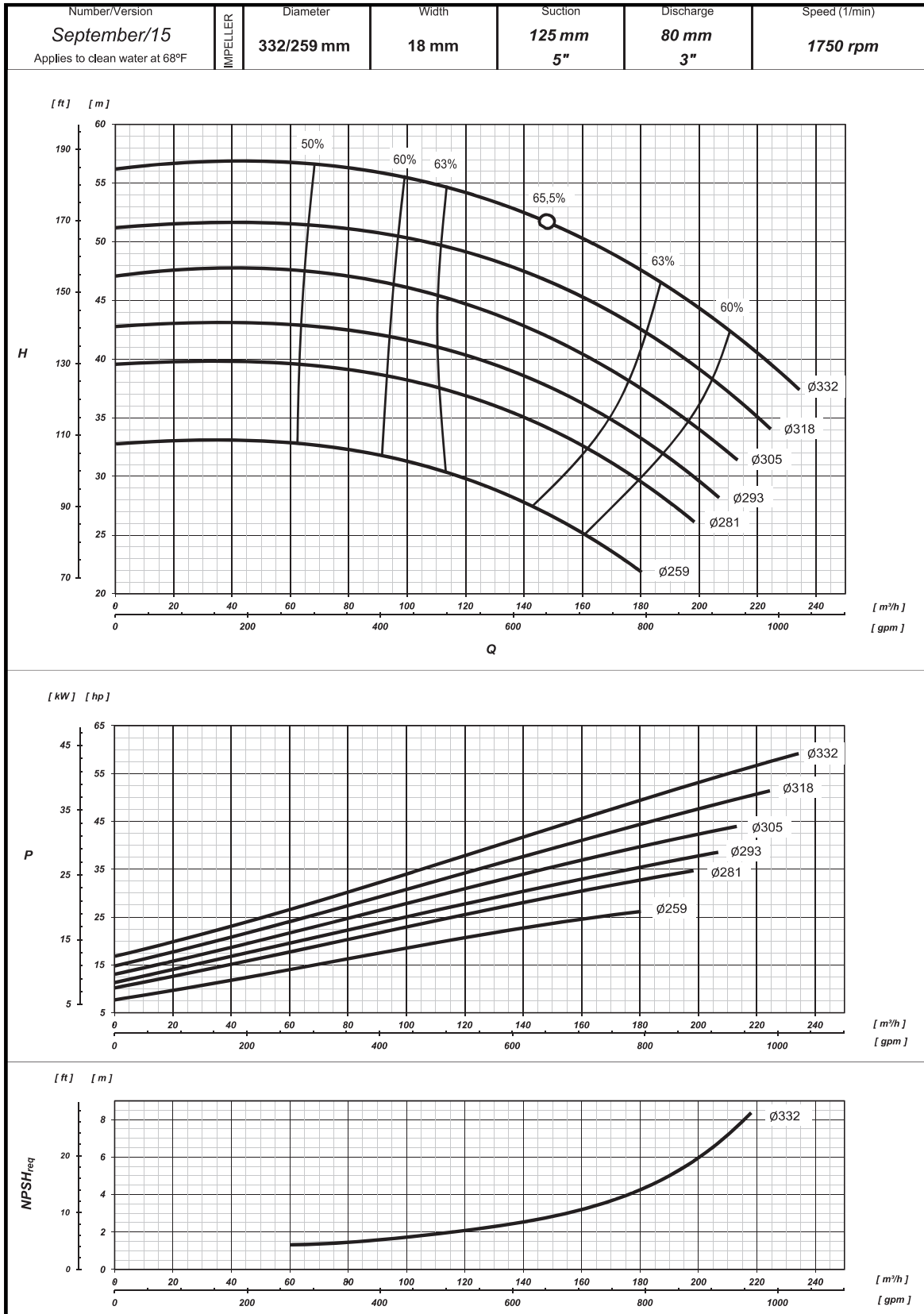
TH 80-250

Single Stage Closed Impeller



TH 80-315

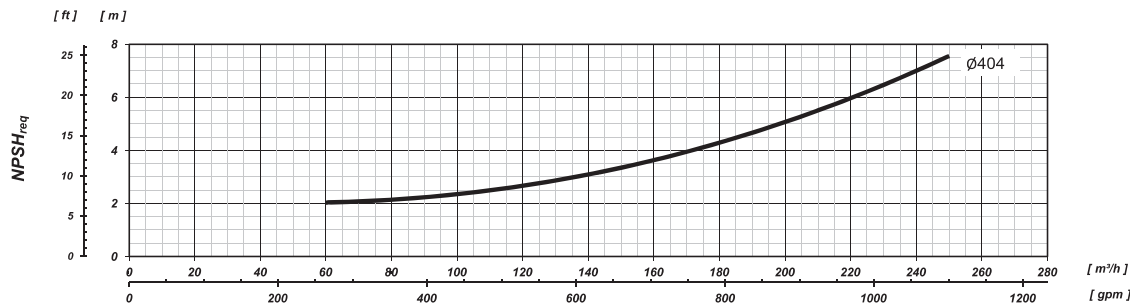
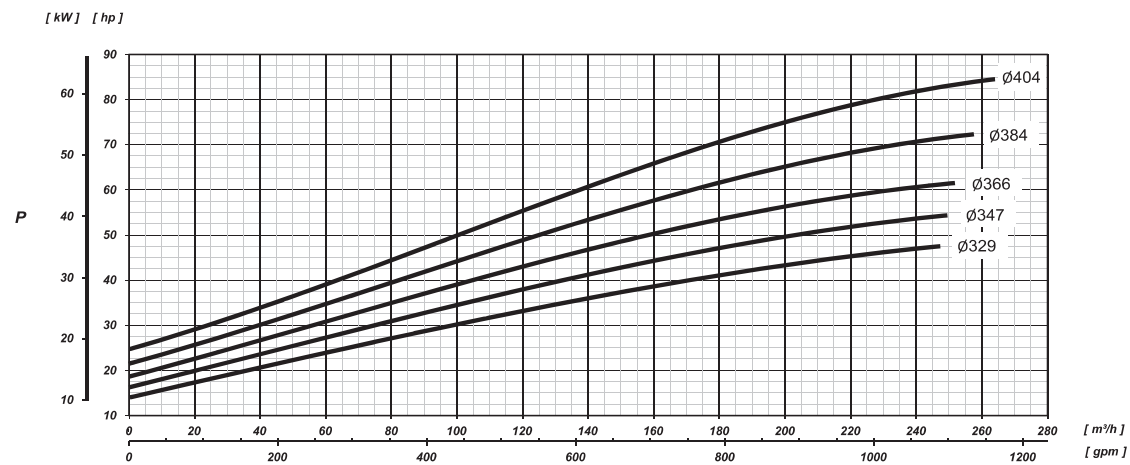
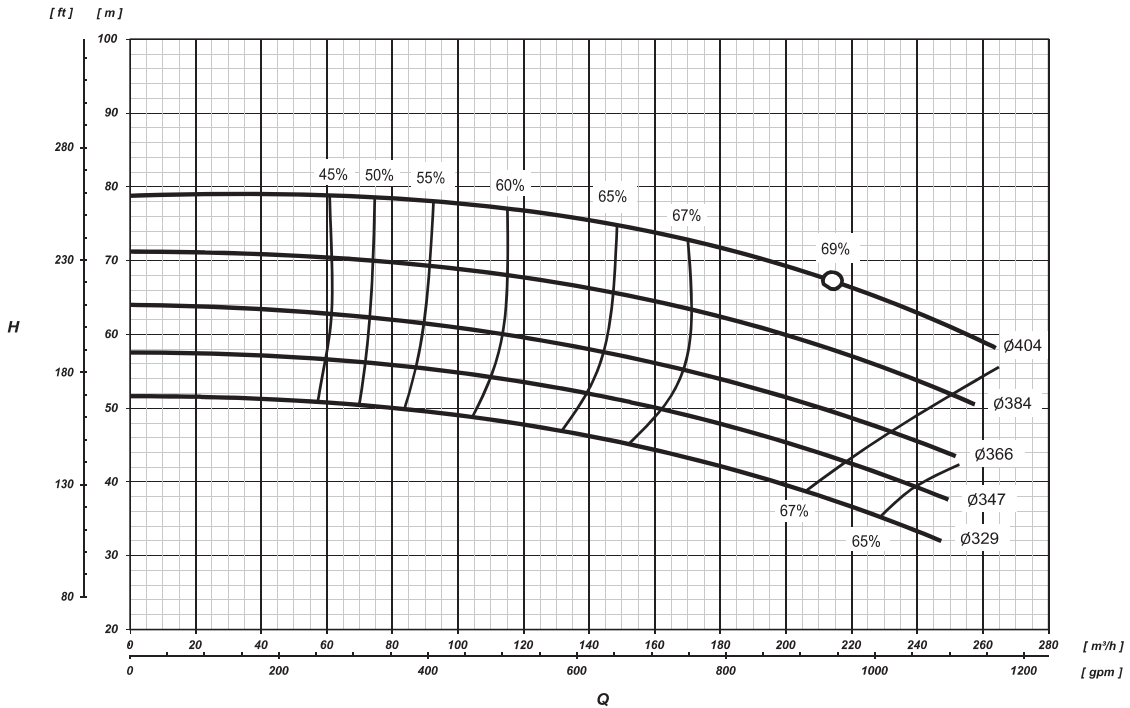
Single Stage Closed Impeller



TH 80-400

Single Stage Closed Impeller

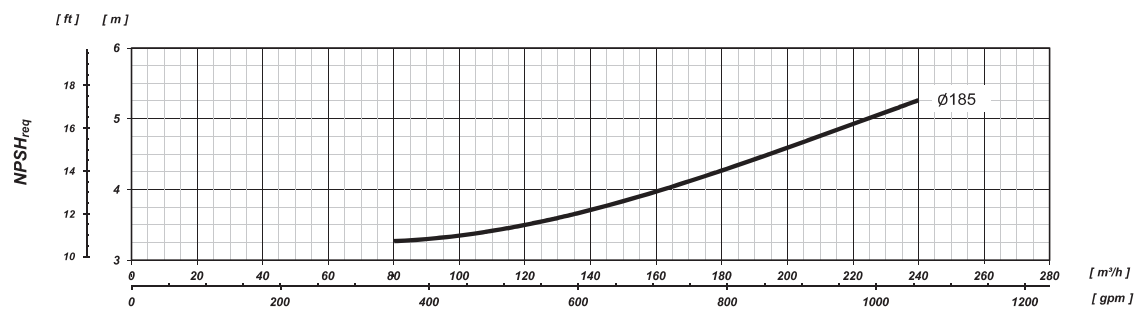
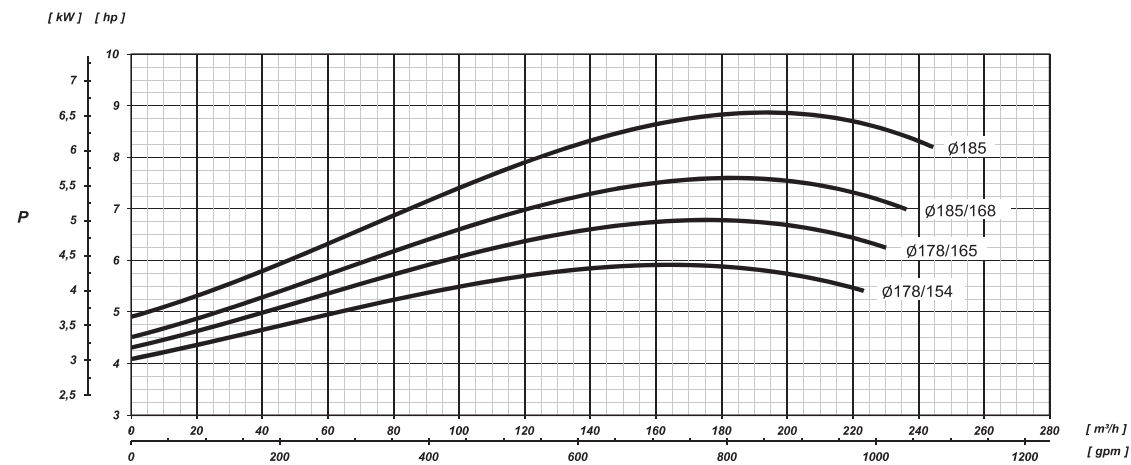
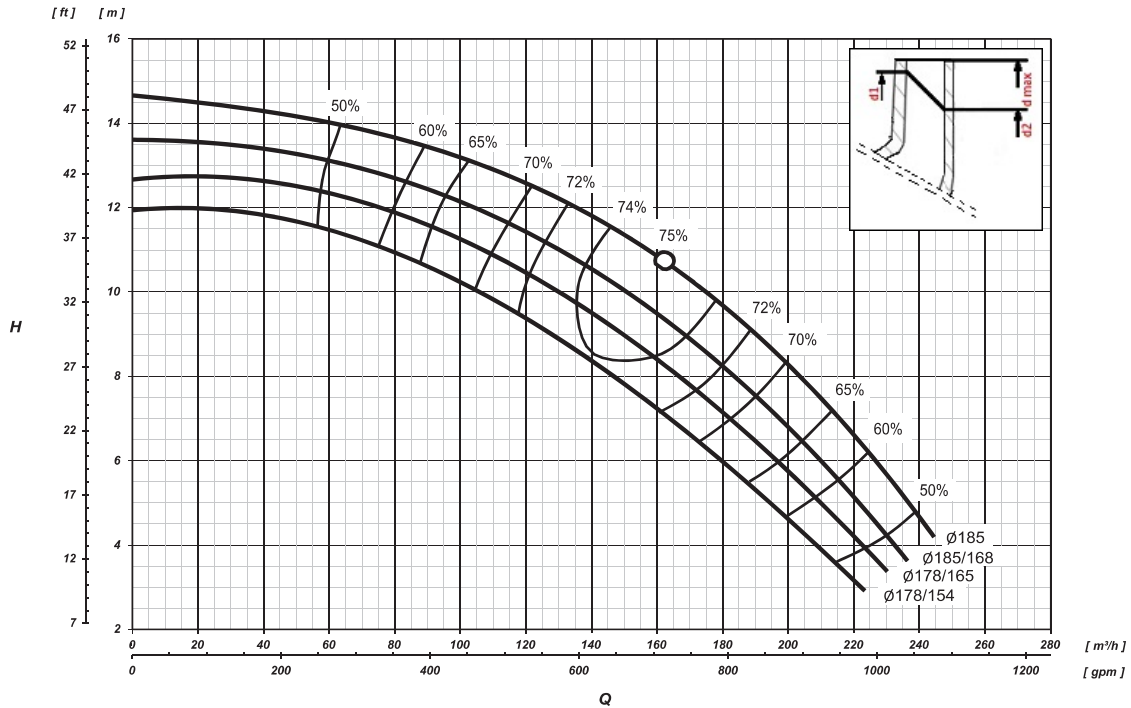
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		404/329 mm	13 mm	125 mm 5"	80 mm 3"	1750 rpm



TH 100-160

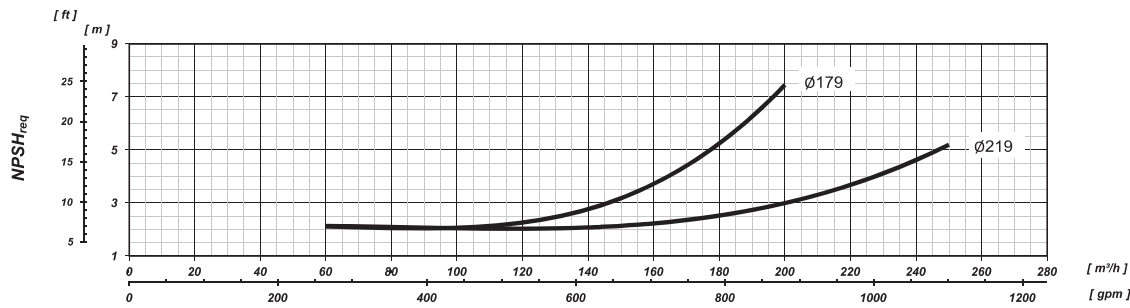
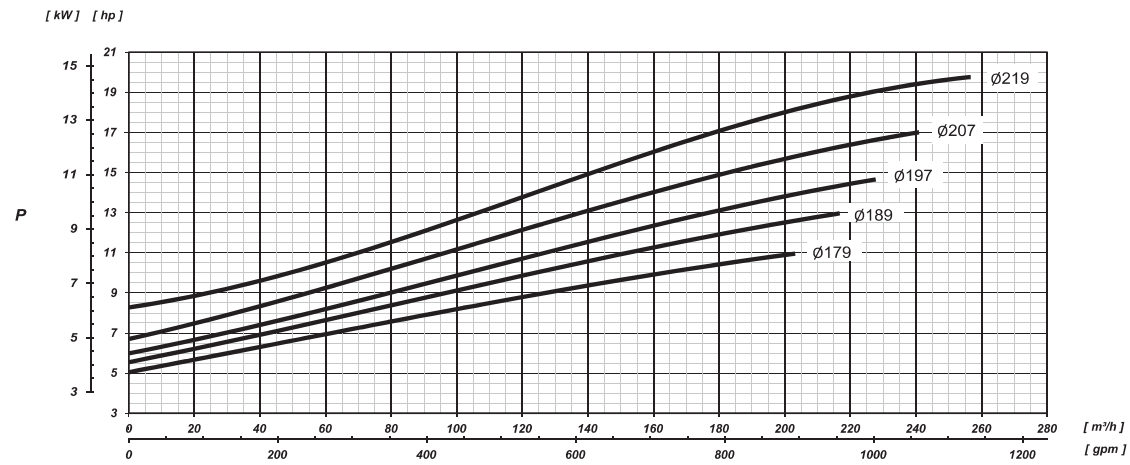
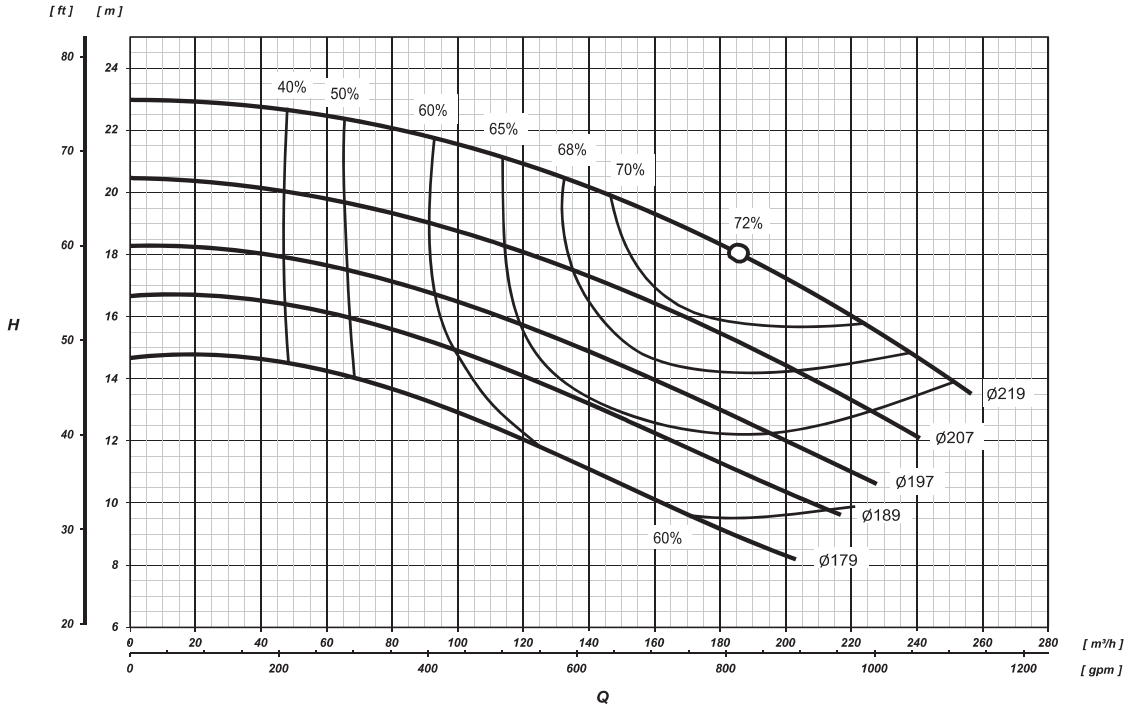
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 <small>Applies to clean water at 68°F</small>		185/154 mm	36 mm	125 mm 5"	100 mm 4"	1750 rpm



TH 100-200 Single Stage Closed Impeller

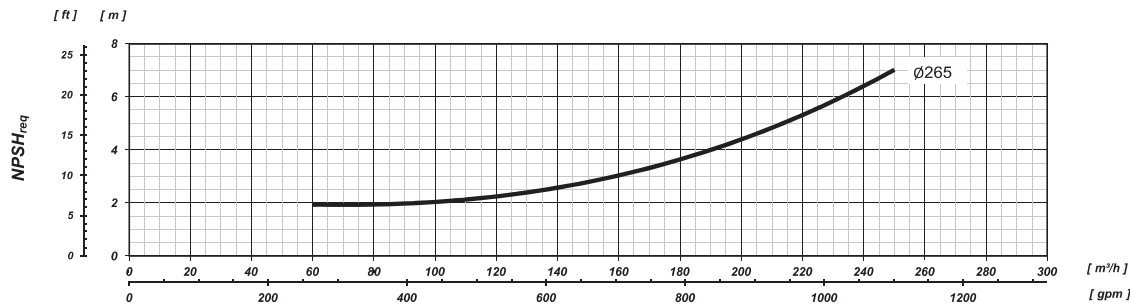
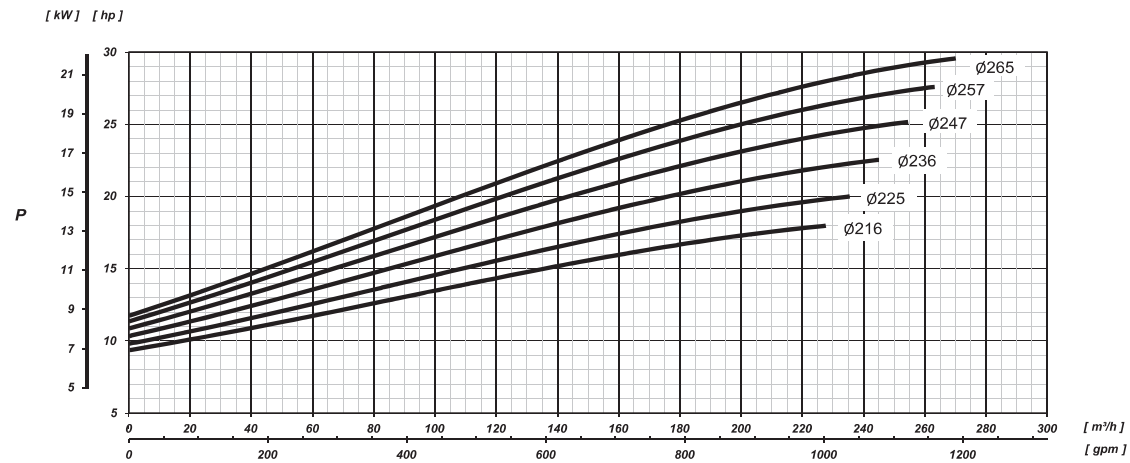
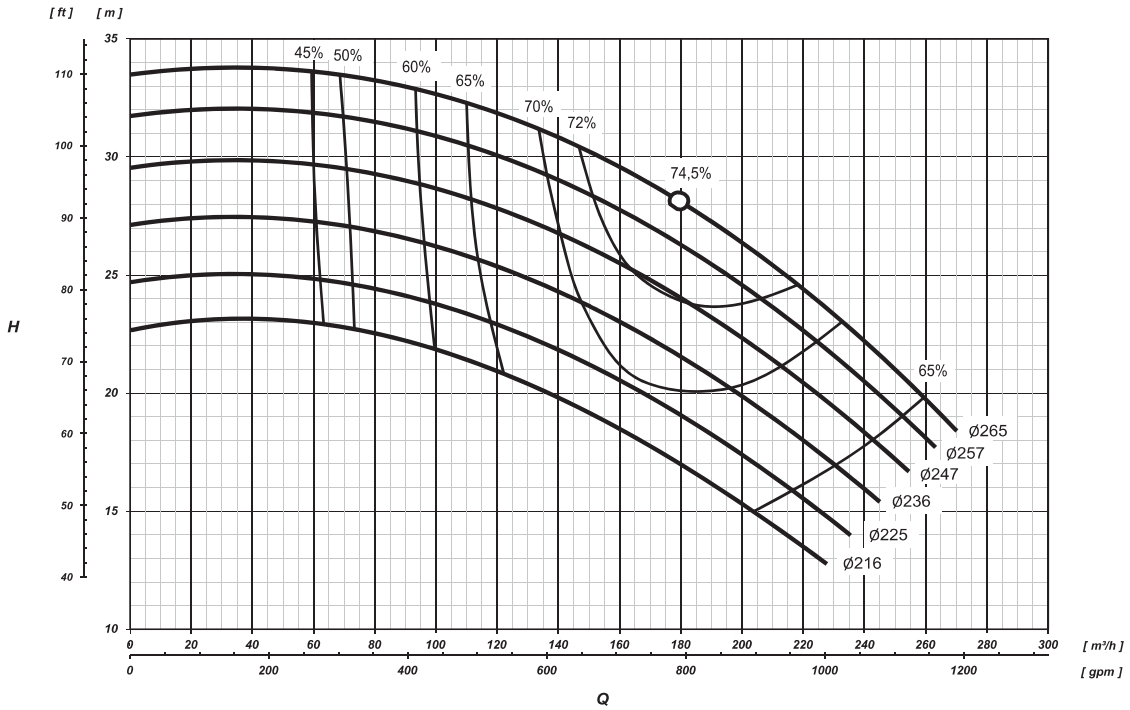
Number/Version May/16 Applies to clean water at 68°F	IMPELLER	Diameter 219/179 mm	Width 32 mm	Suction 125 mm 5"	Discharge 100 mm 4"	Speed (1/min) 1750 rpm
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TH 100-250

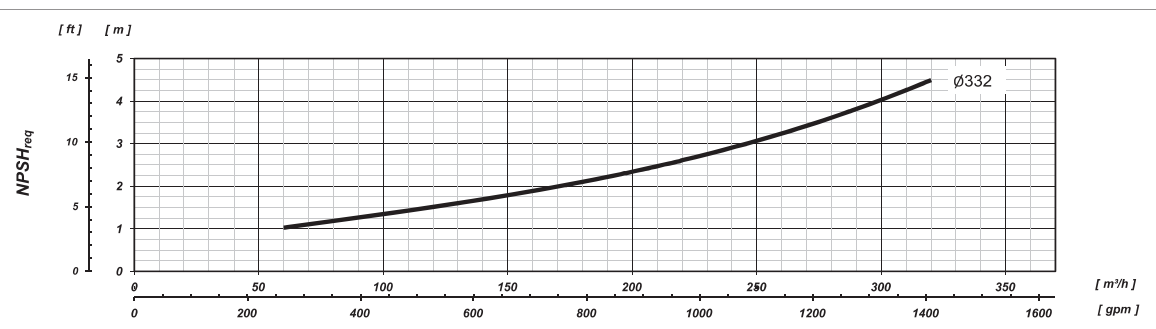
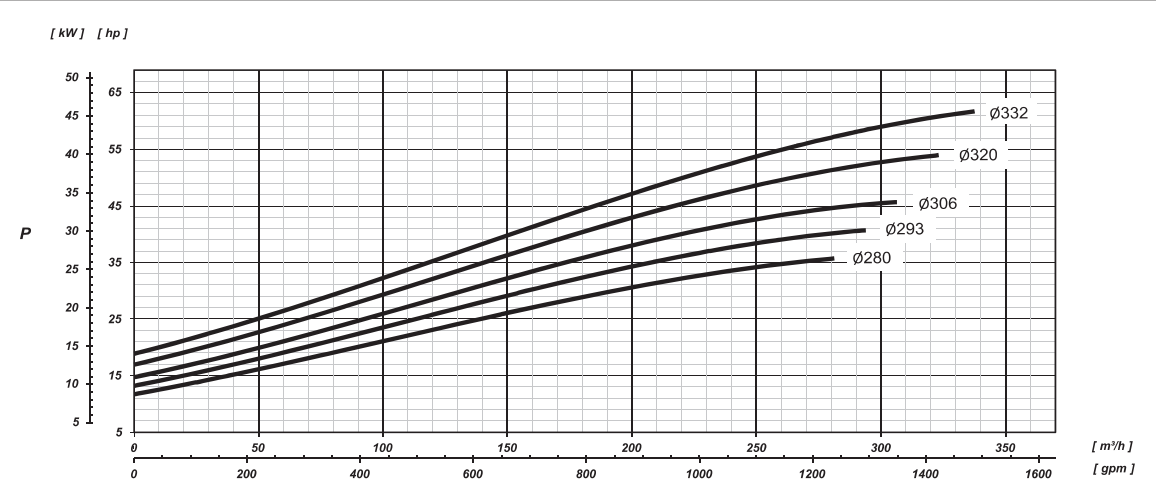
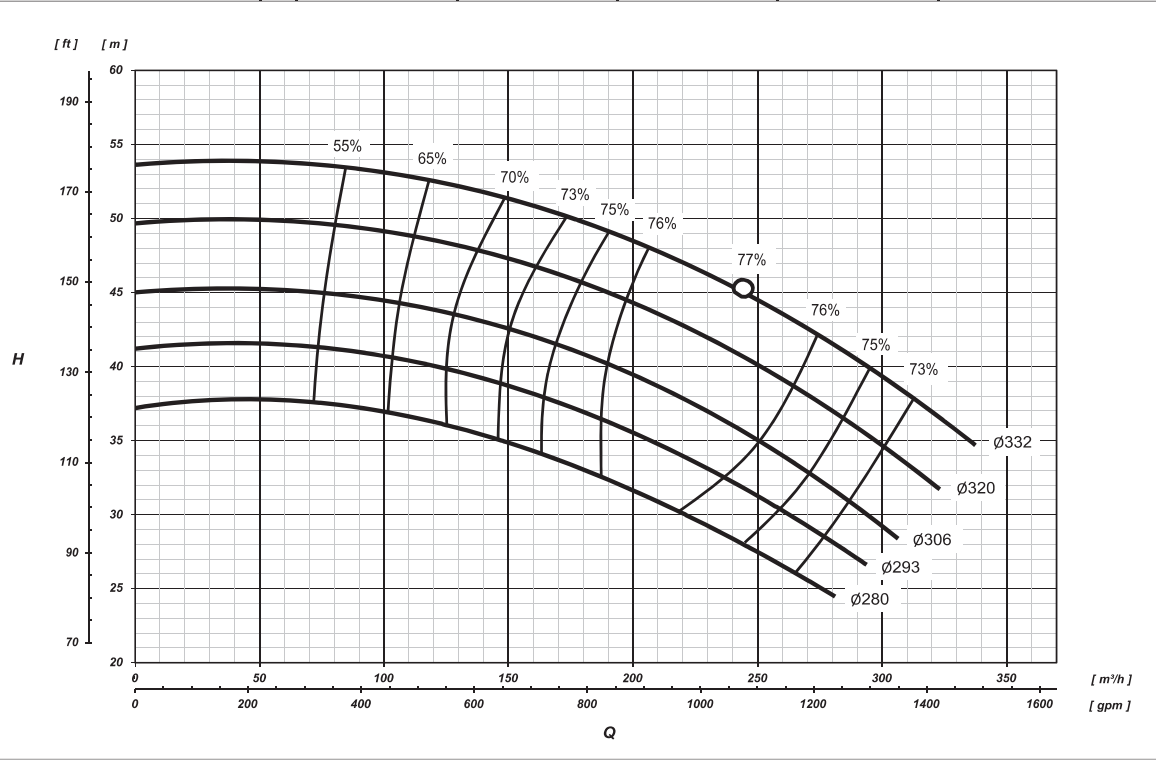
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		265/216 mm	27 mm	125 mm 5"	100 mm 4"	1750 rpm



TH 100-315 Single Stage Closed Impeller

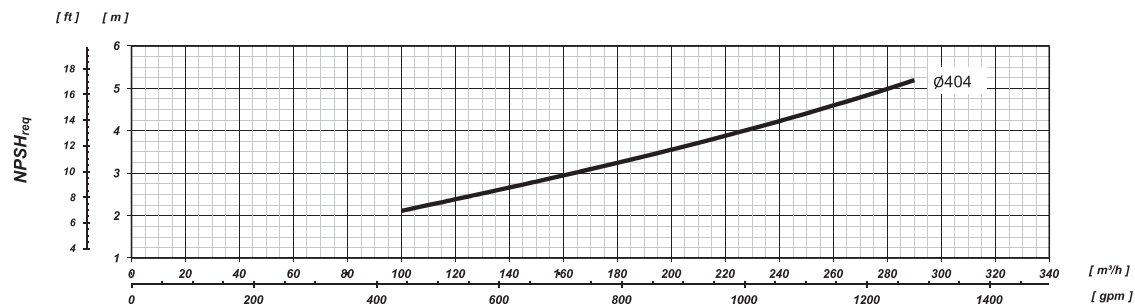
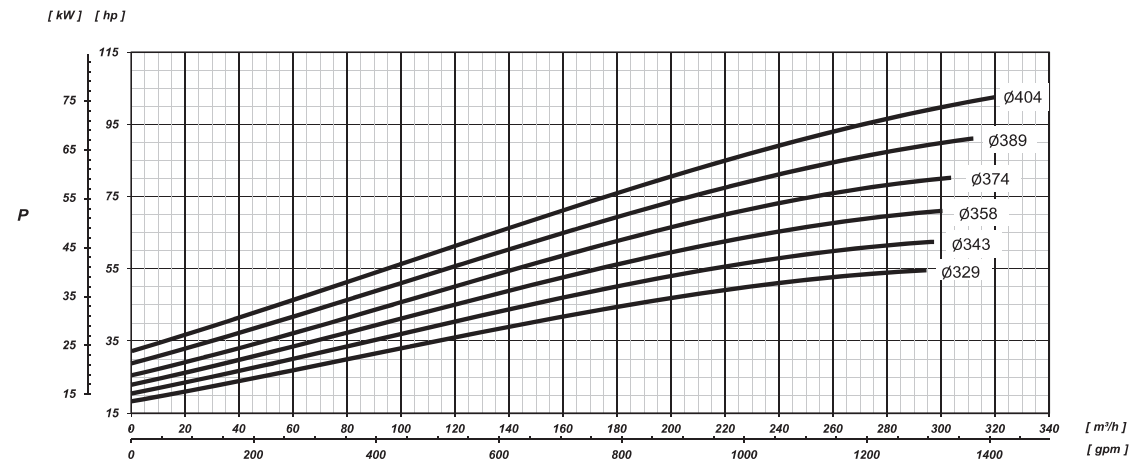
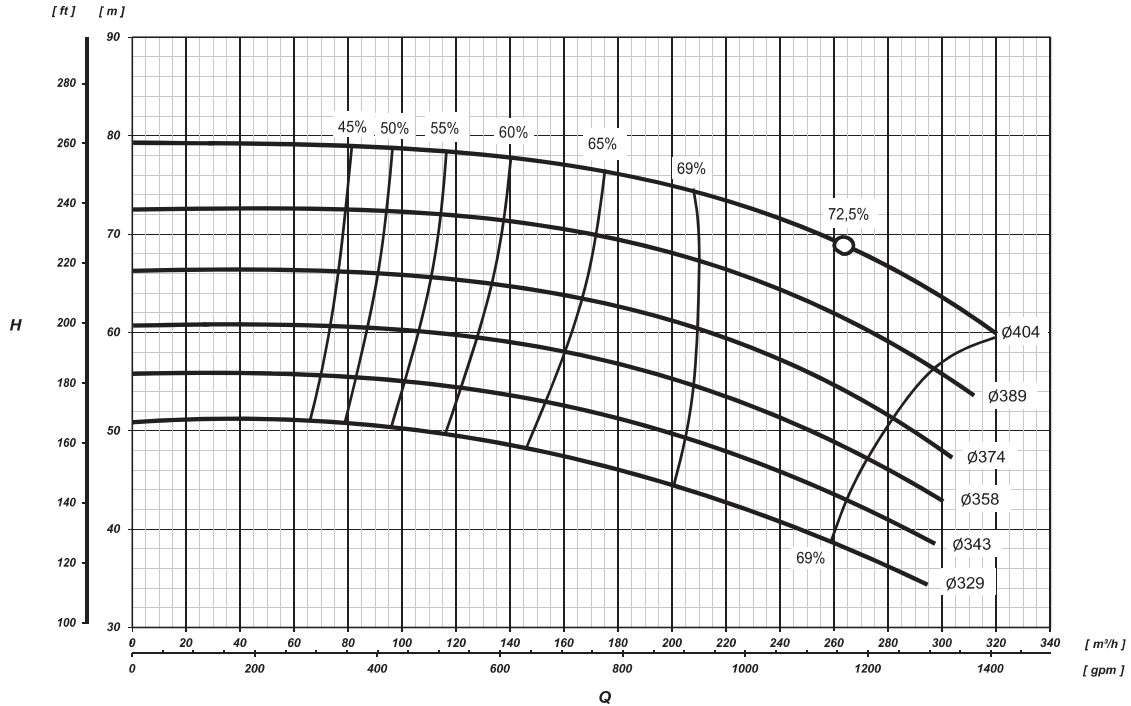
Number/Version October/15 Applies to clean water at 68°F	IMPELLER	Diameter 332/280 mm	Width 23 mm	Suction 125 mm 5"	Discharge 100 mm 4"	Speed (1/min) 1750 rpm
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TH 100-400

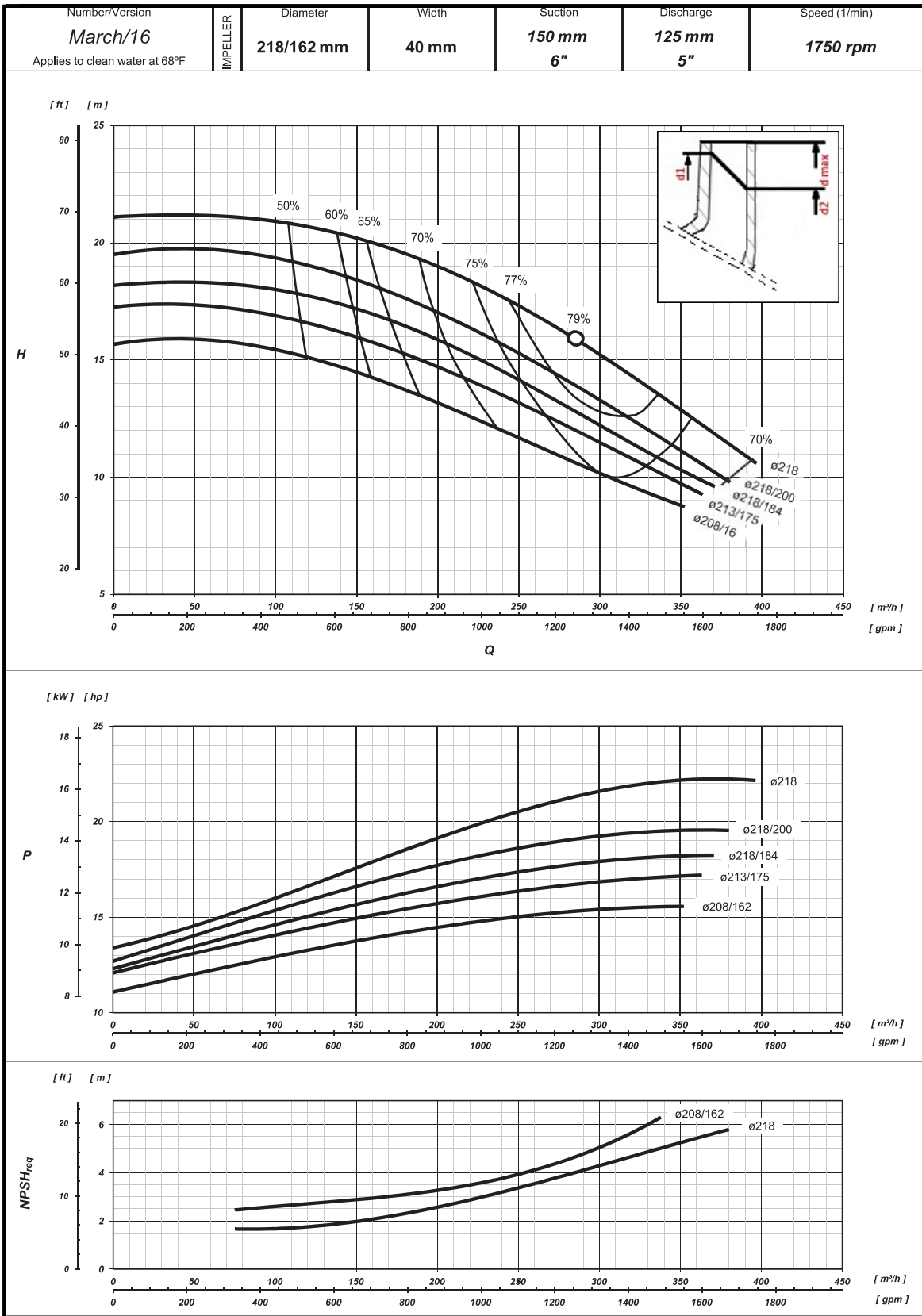
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		404/329 mm	17 mm	125 mm 5"	100 mm 4"	1750 rpm



TH 125-200

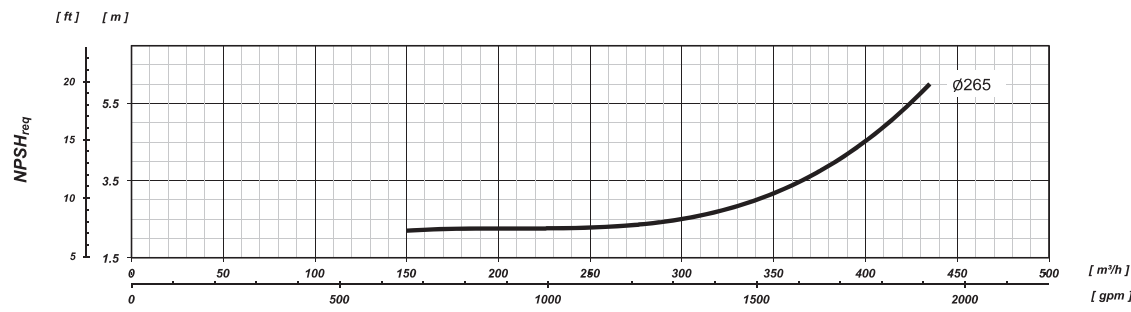
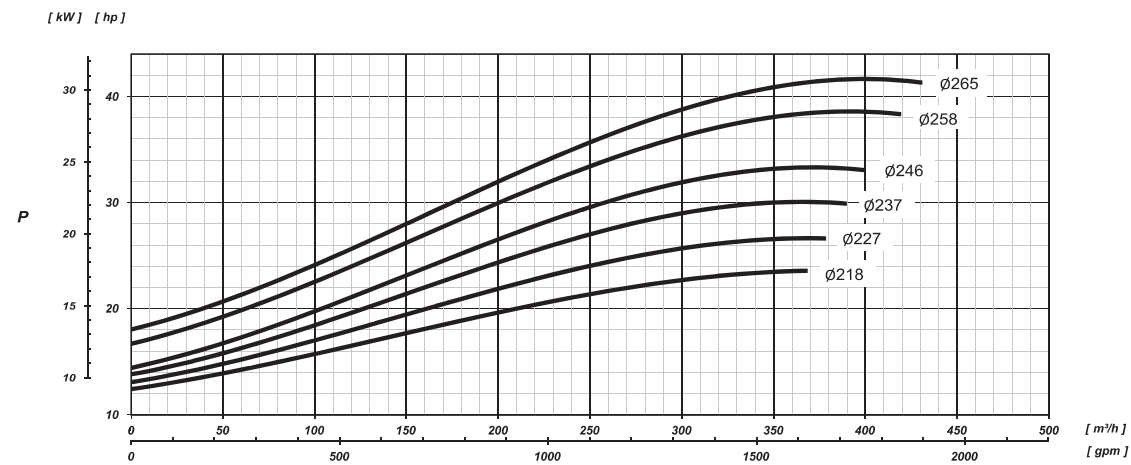
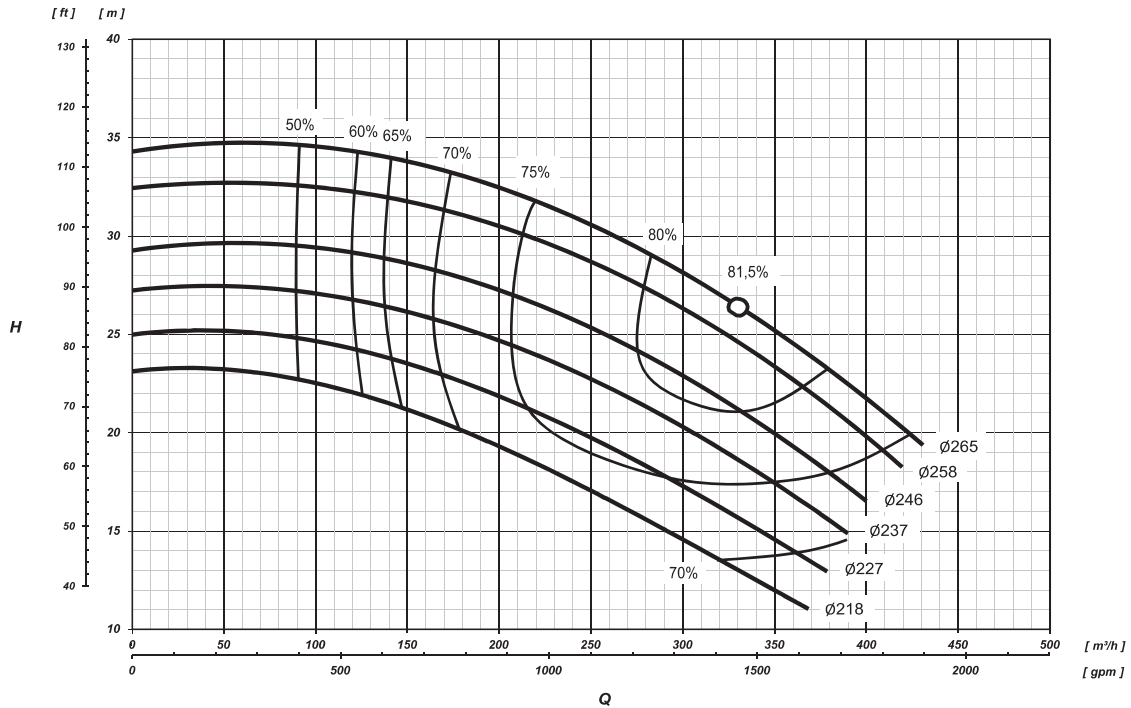
Single Stage Closed Impeller



TH 125-250

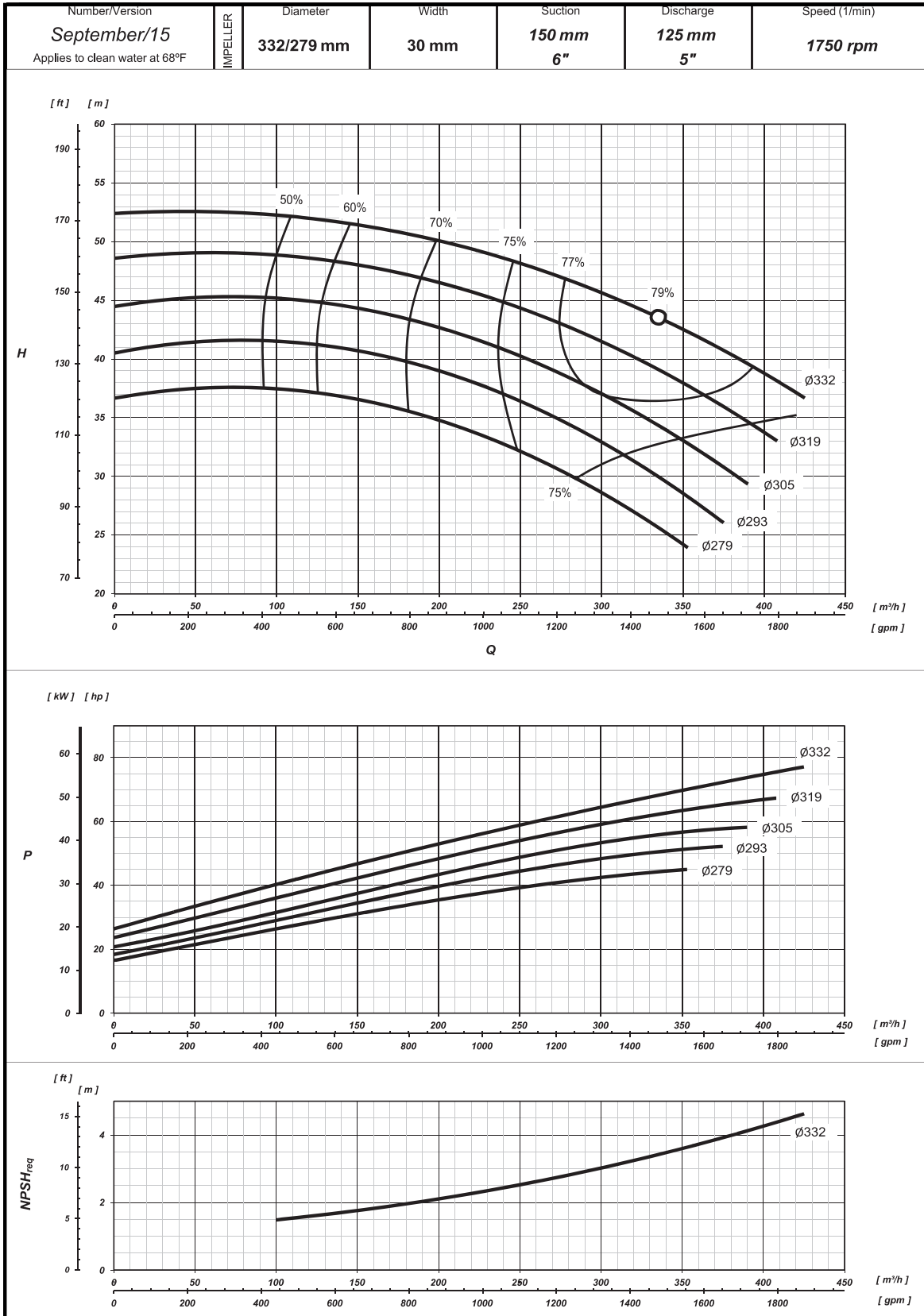
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		265/218 mm	37 mm	150 mm 6"	125 mm 5"	1750 rpm



TH 125-315

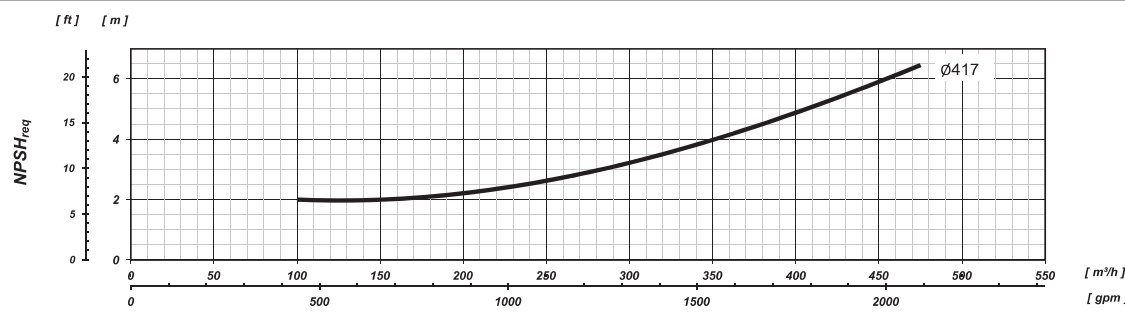
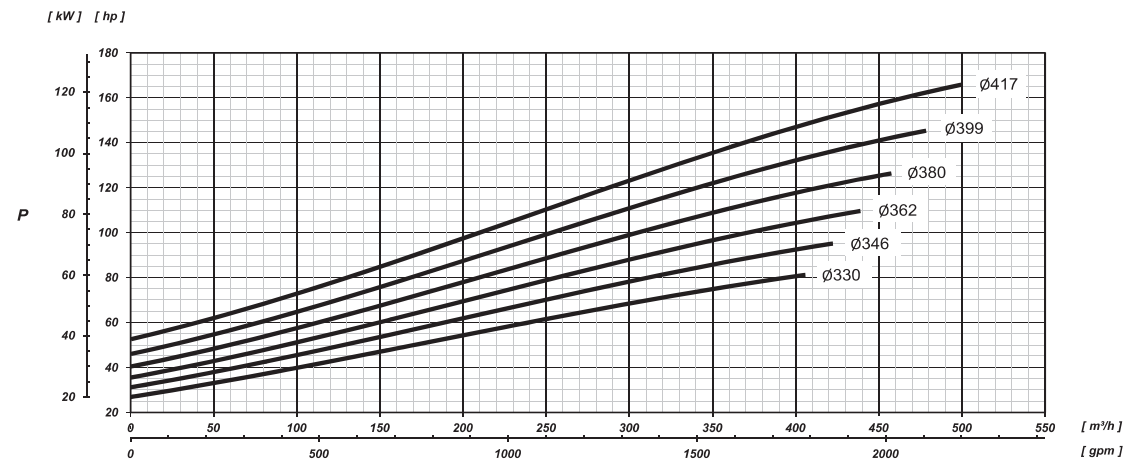
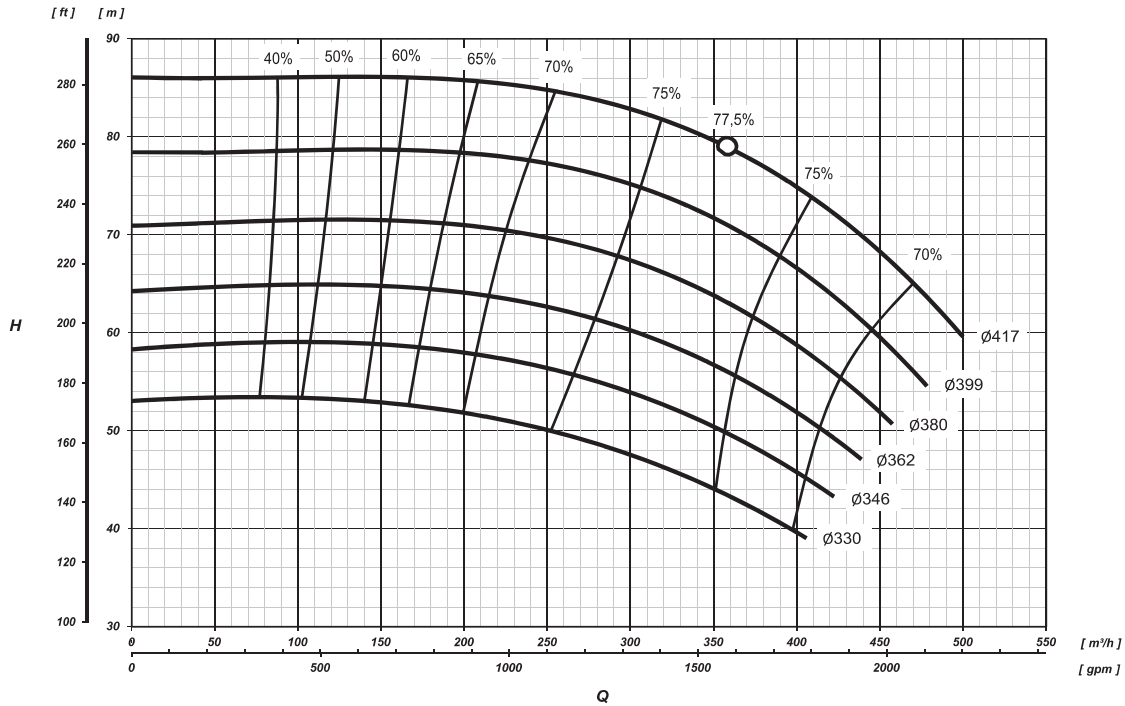
Single Stage Closed Impeller



TH 125-400

Single Stage Closed Impeller

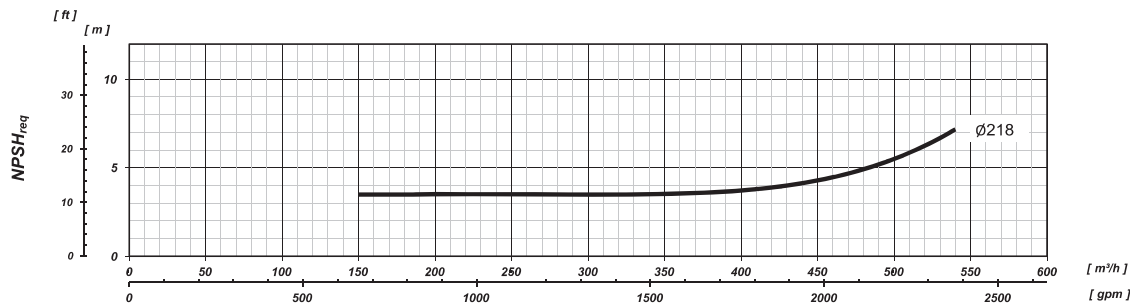
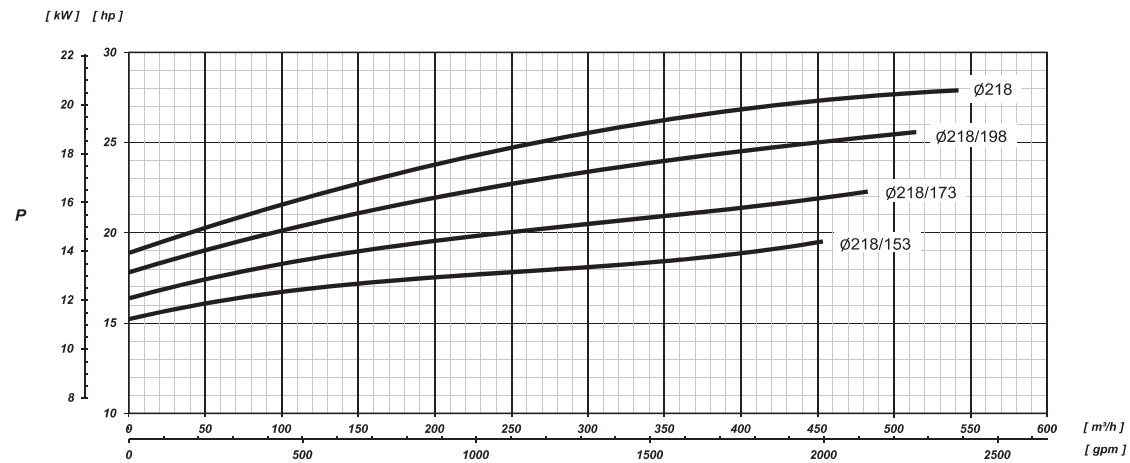
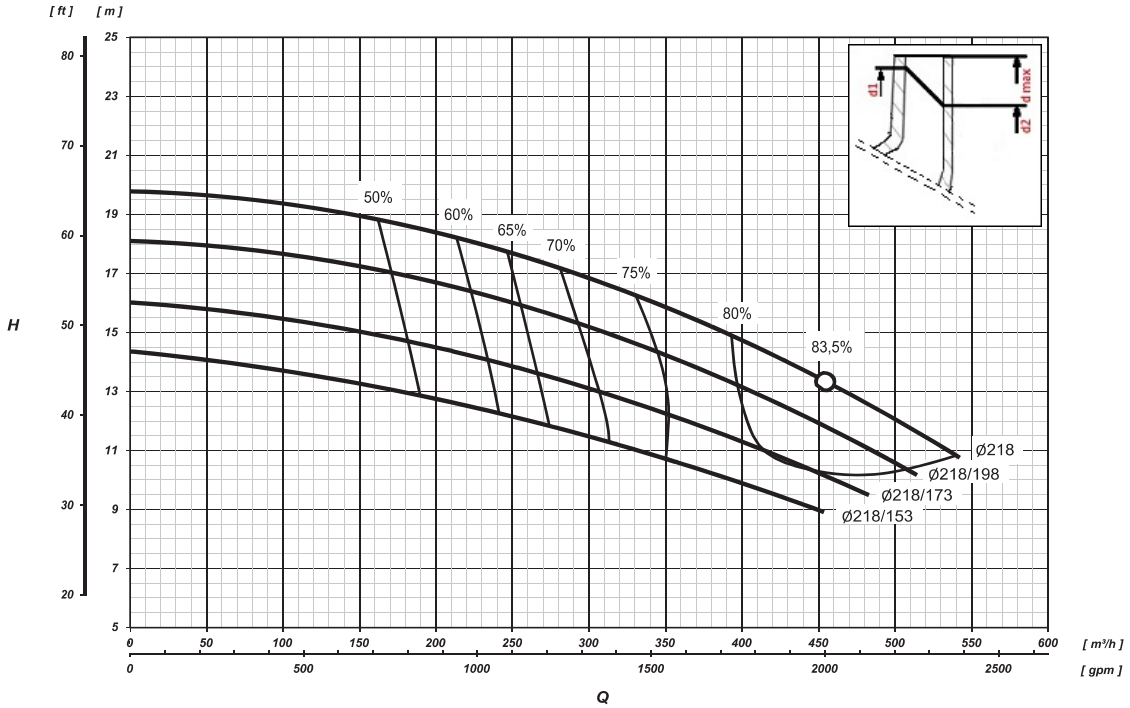
Number/Version September/15 Applies to clean water at 68°F	IMPELLER	Diameter 417/330 mm	Width 25 mm	Suction 150 mm 6"	Discharge 125 mm 5"	Speed (1/min) 1750 rpm
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TH 150-200

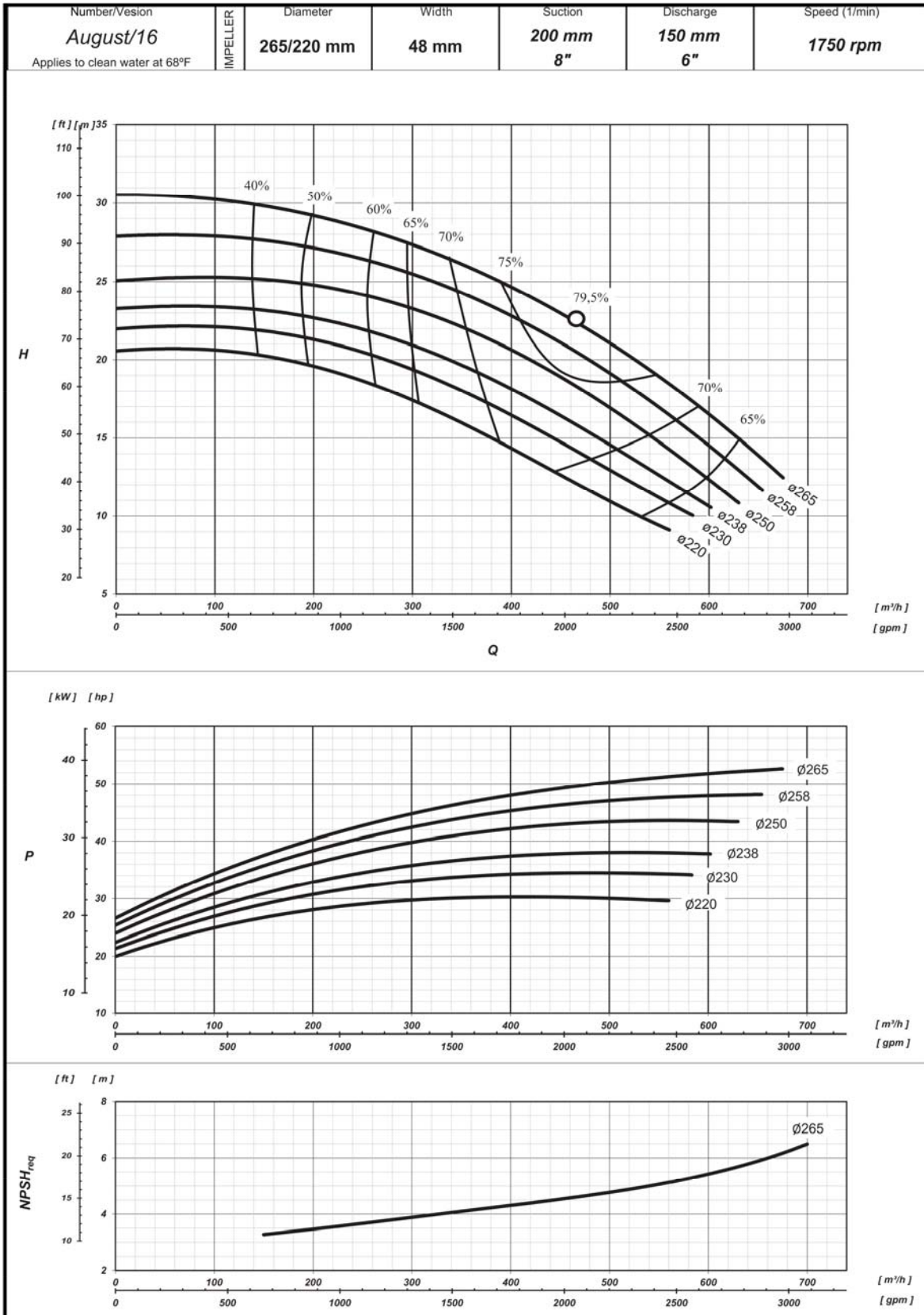
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		218/153 mm	59 mm	200 mm 8"	150 mm 6"	1750 rpm



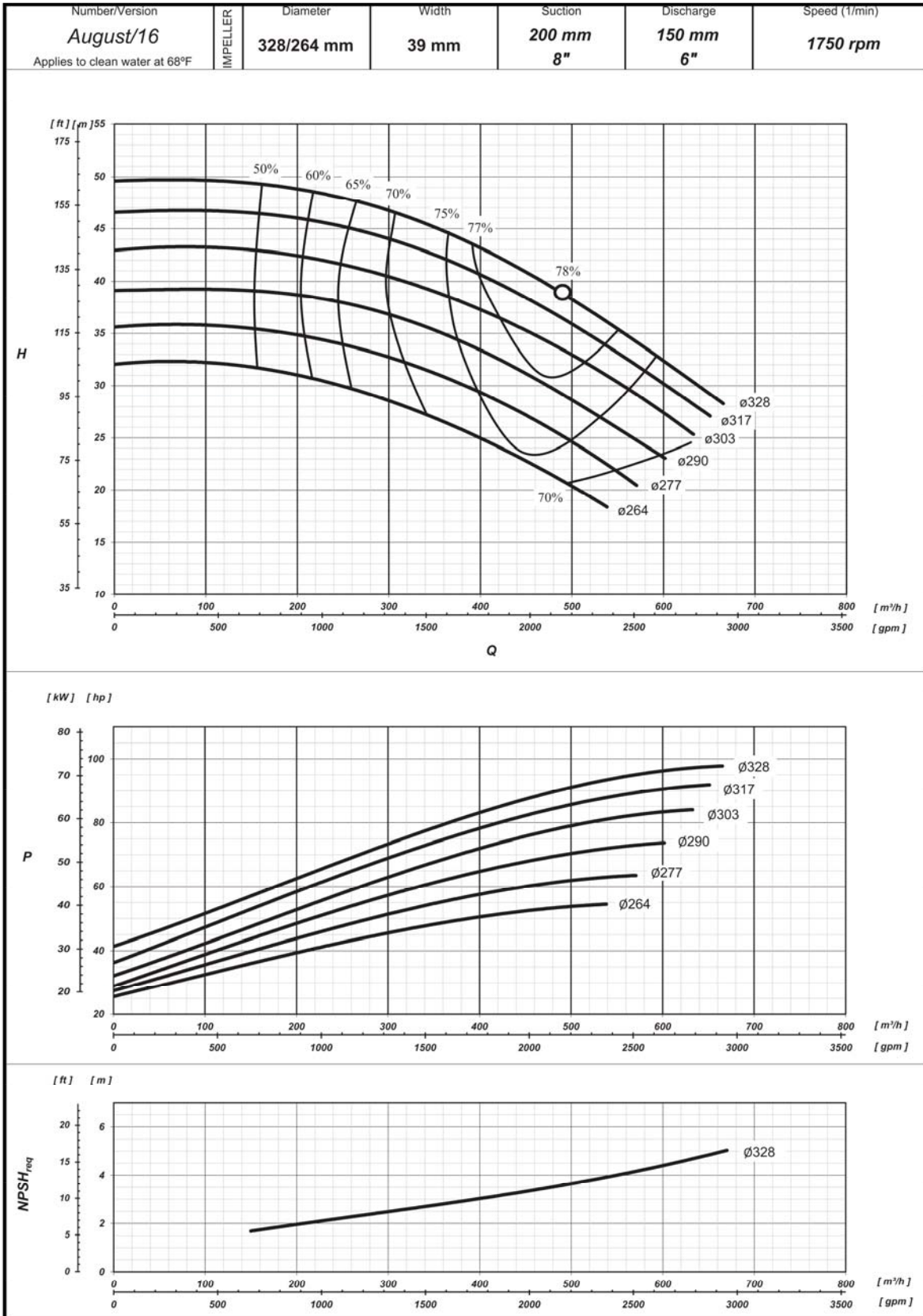
TH 150-250

Single Stage Closed Impeller



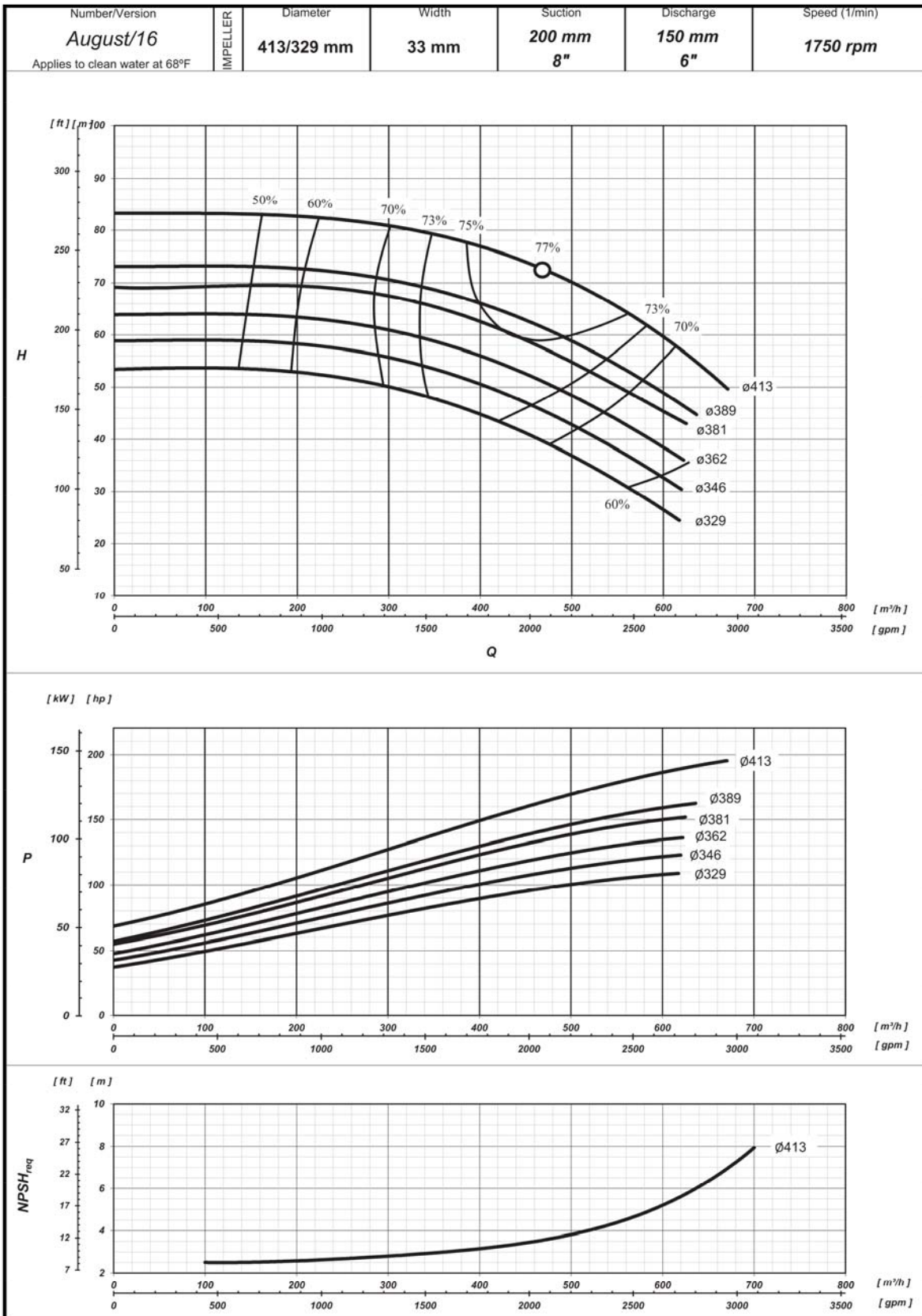
TH 150-315

Single Stage Closed Impeller



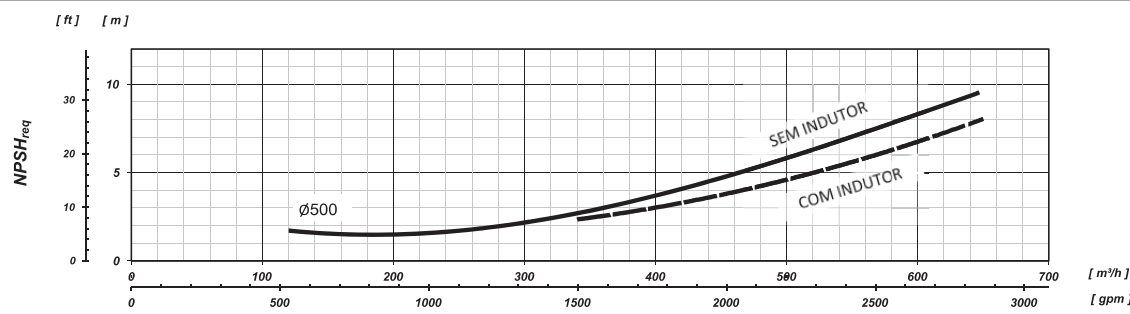
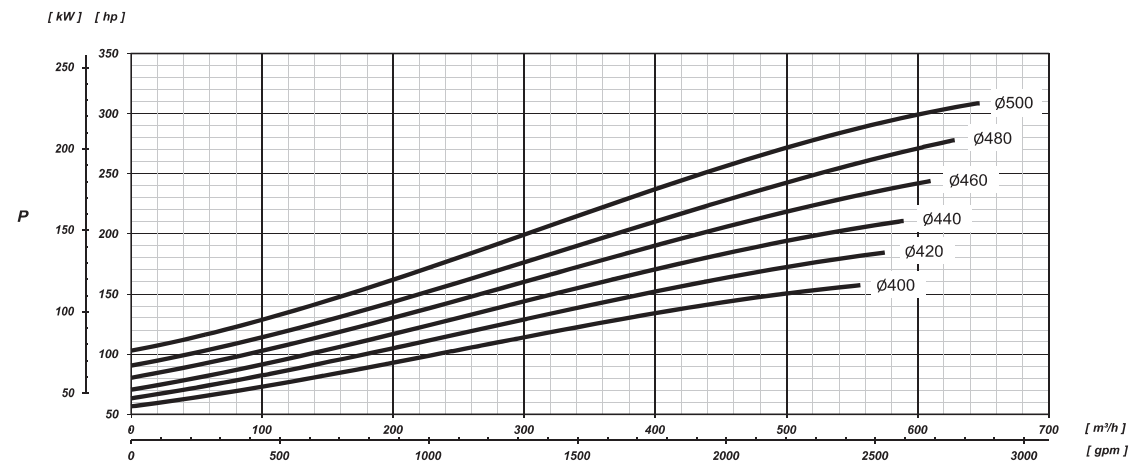
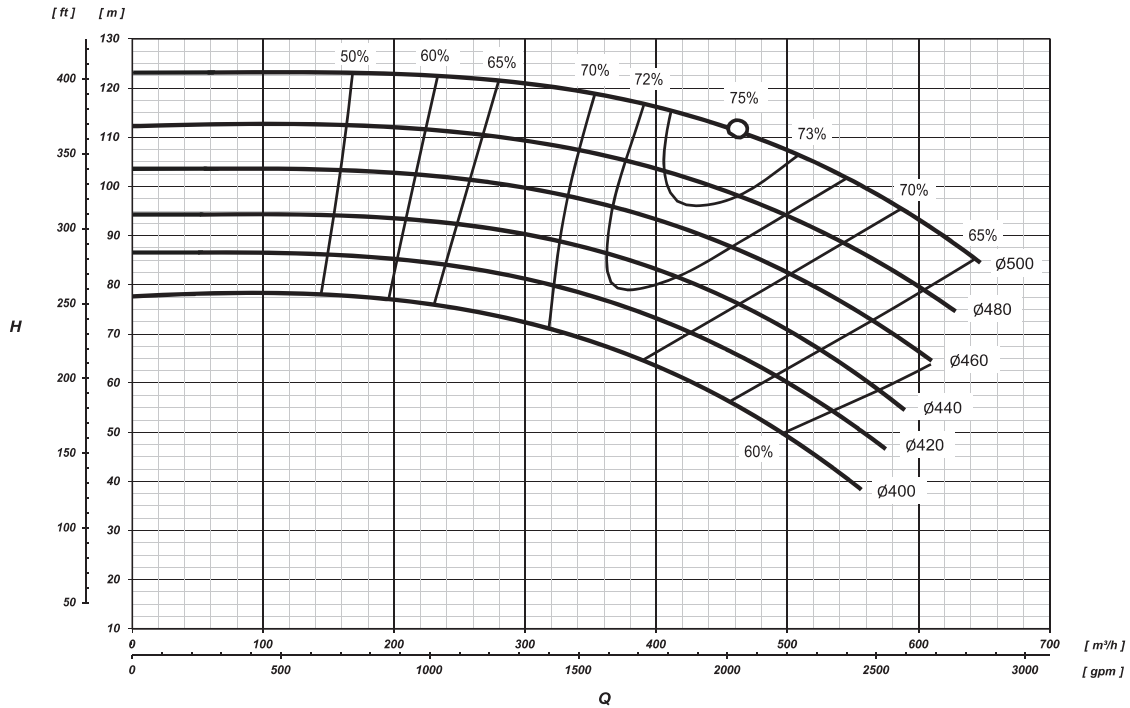
TH 150-400

Single Stage Closed Impeller



TH 150- 500 Single Stage Closed Impeller

Number/Version September/15 Applies to clean water at 68°F	IMPELLER	Diameter 500/400 mm	Width 23 mm	Suction 200 mm 8"	Discharge 150 mm 6"	Speed (1/min) 1750 rpm
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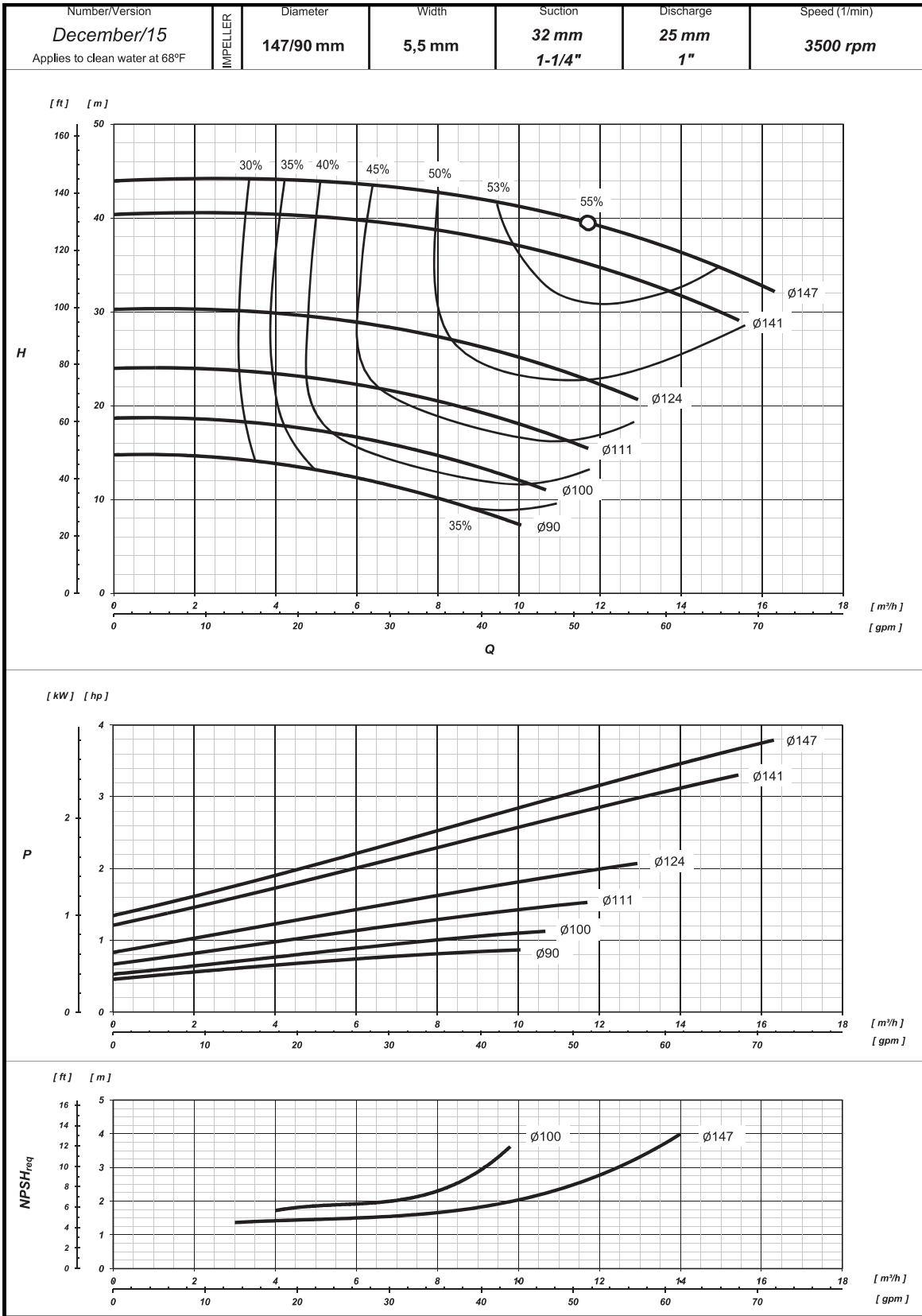


EBARA TH SERIES 3500 RPM CURVES



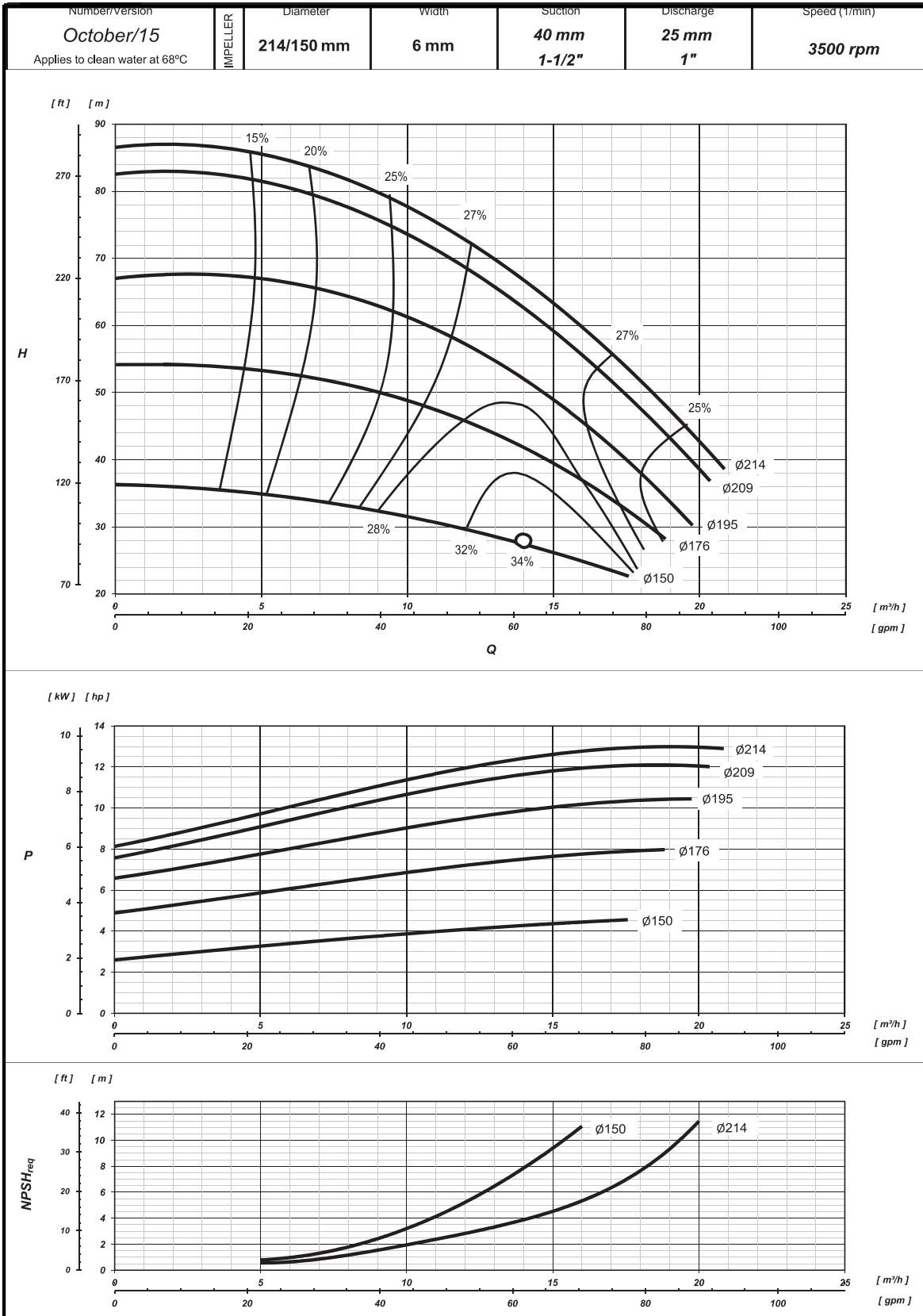
TH 25-150

Single Stage Closed Impeller



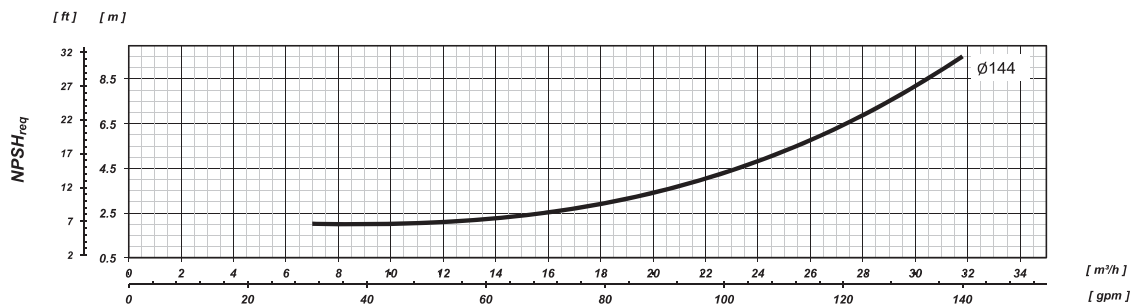
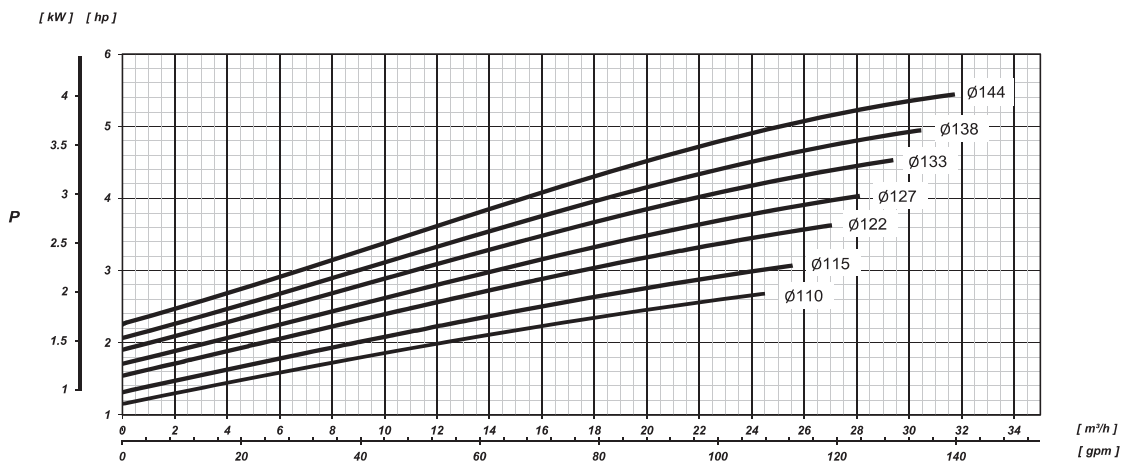
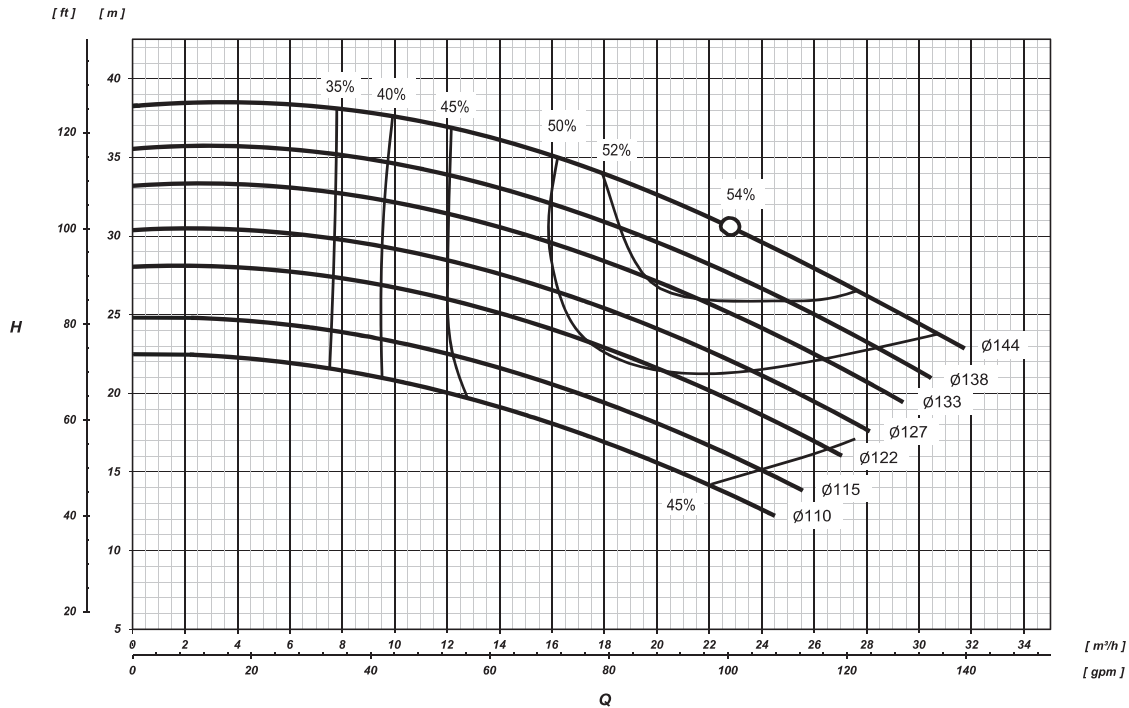
TH 25- 200

Single Stage Closed Impeller



TH 32-125.1 Single Stage Closed Impeller

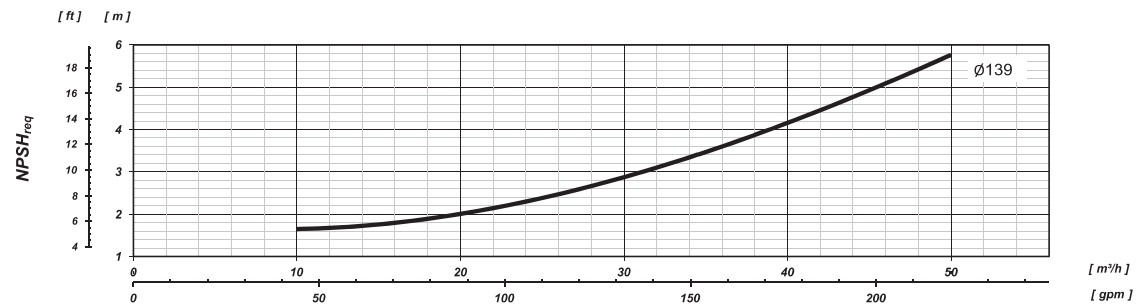
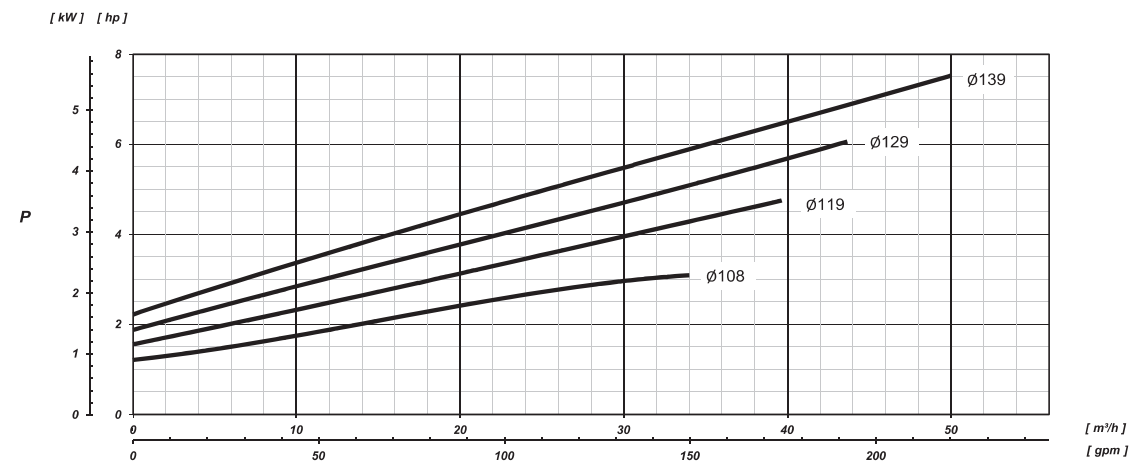
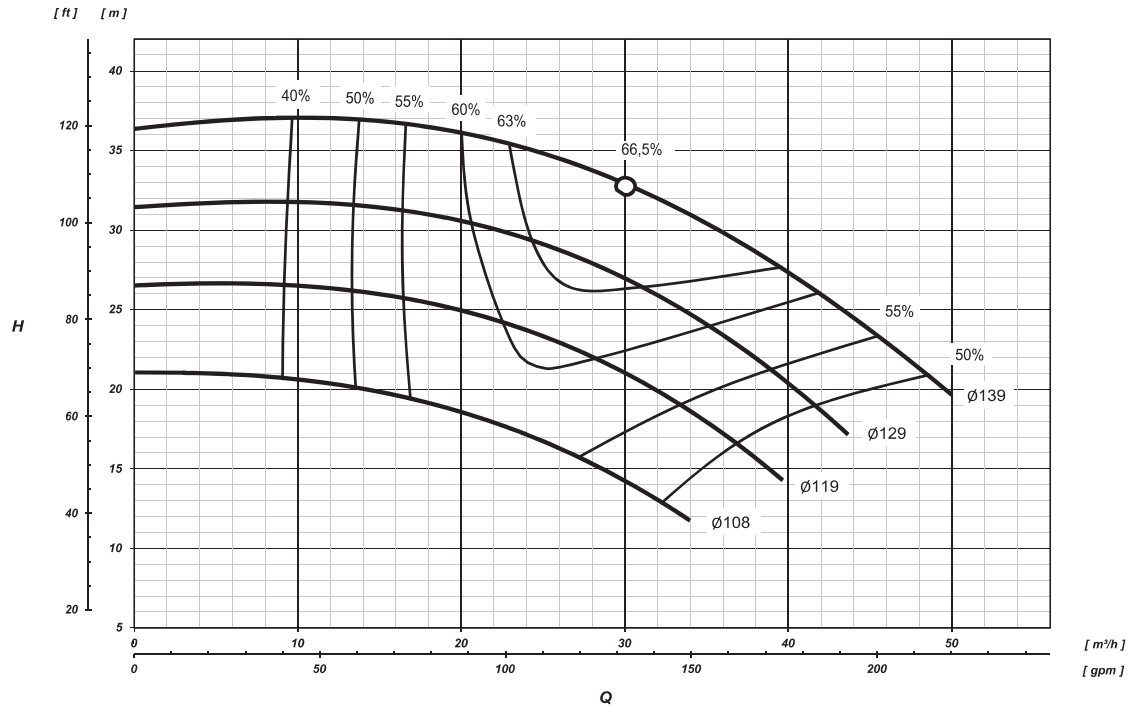
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
August/15 Applies to clean water at 68°F		144/110 mm	7 mm	50 mm 2"	32 mm 1-1/4"	3500 rpm



TH 32-125

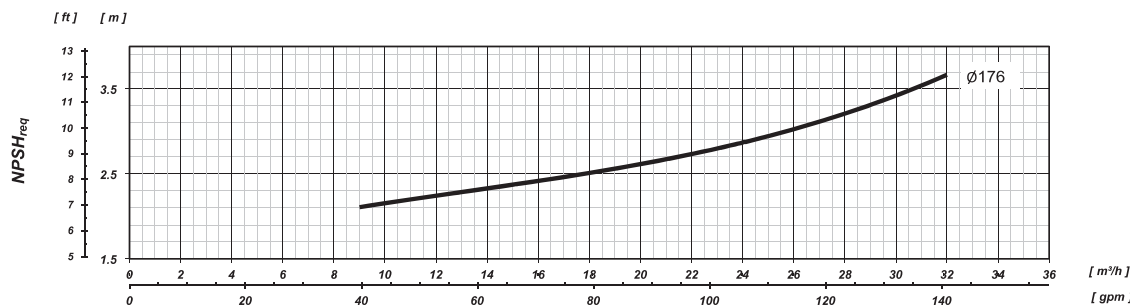
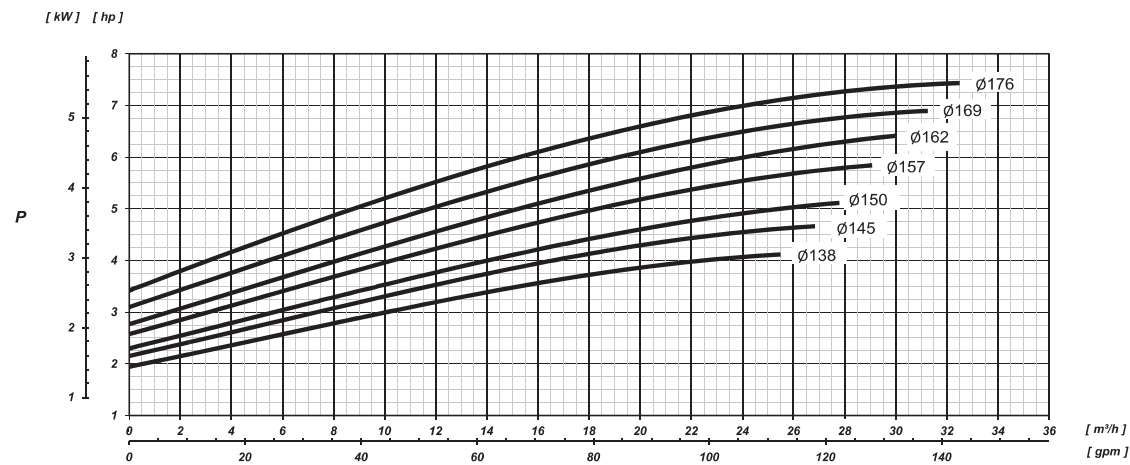
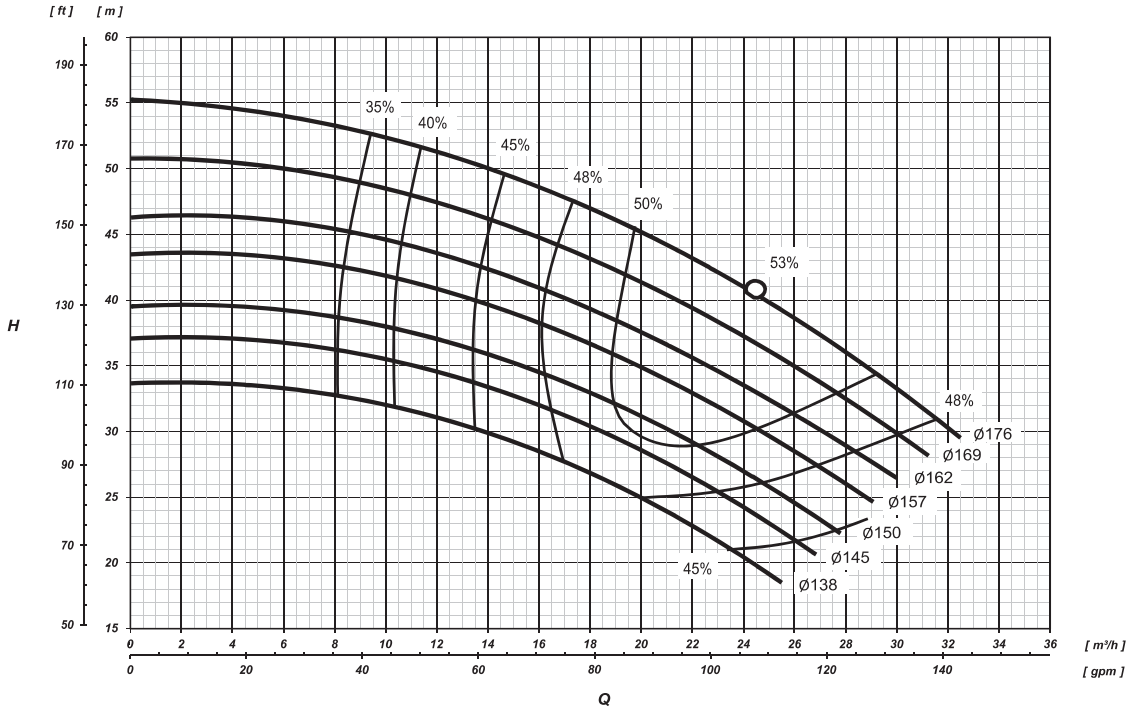
Single Stage Closed Impeller

Number/Version August/15 Applies to clean water at 68°F	IMPELLER	Diameter 139/108 mm	Width 9 mm	Suction 50 mm 2"	Discharge 32 mm 1-1/4"	Speed (1/min) 3500 rpm
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TH 32-160.1 Single Stage Closed Impeller

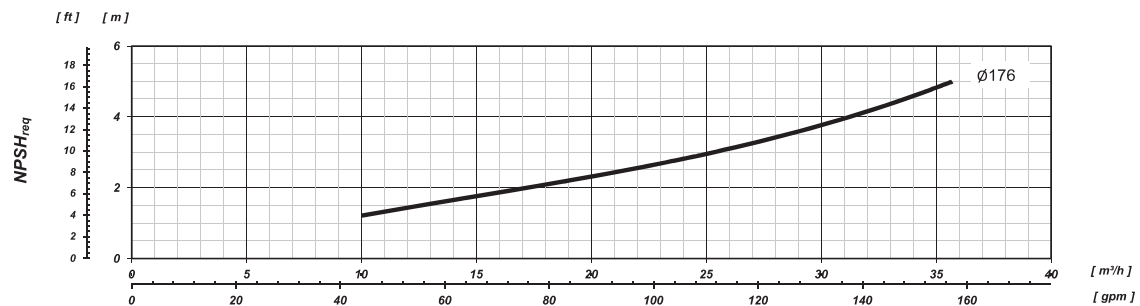
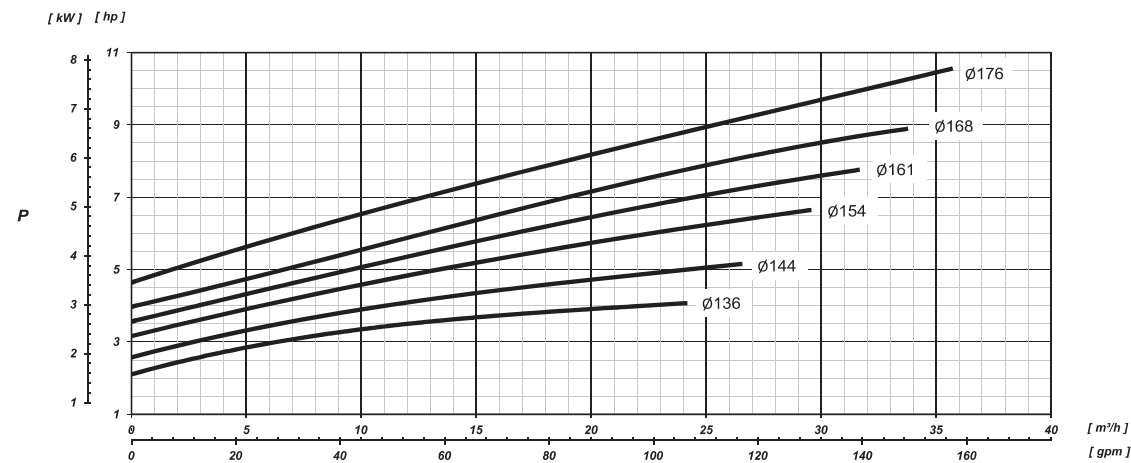
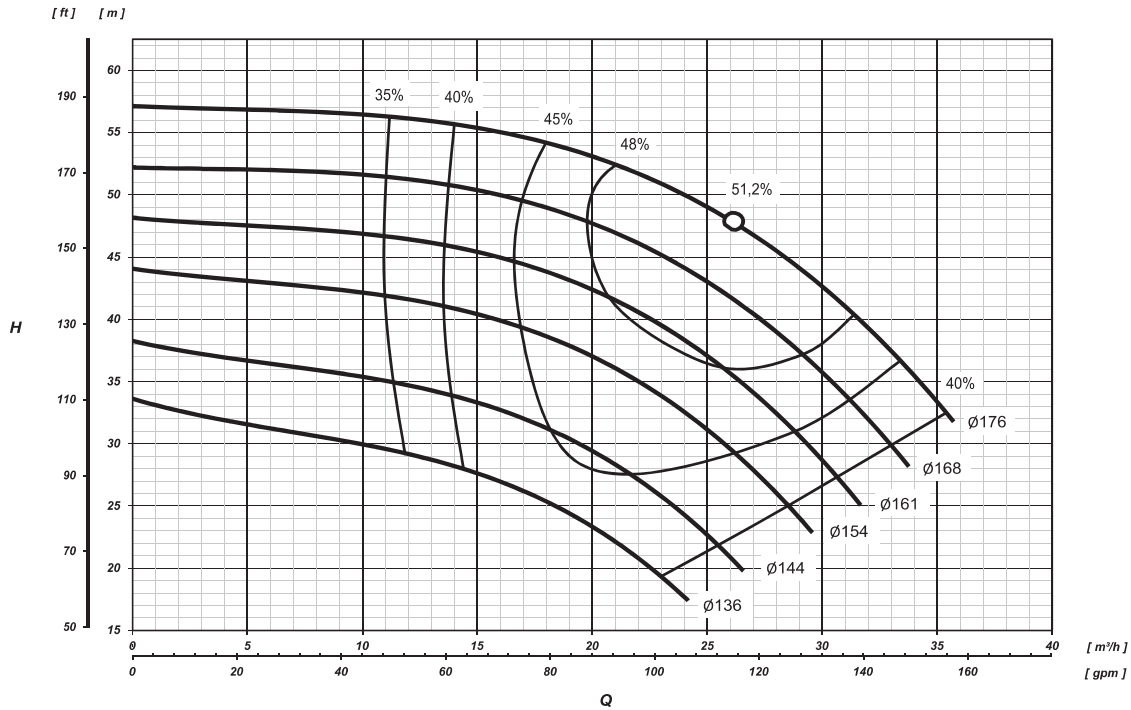
Number/Version <i>August/15</i> Applies to clean water at 68°F	IMPELLER	Diameter 176/138 mm	Width 5 mm	Suction 50 mm 2"	Discharge 32 mm 1 1/4"	Speed (1/min) 3500 rpm
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TH 32-160

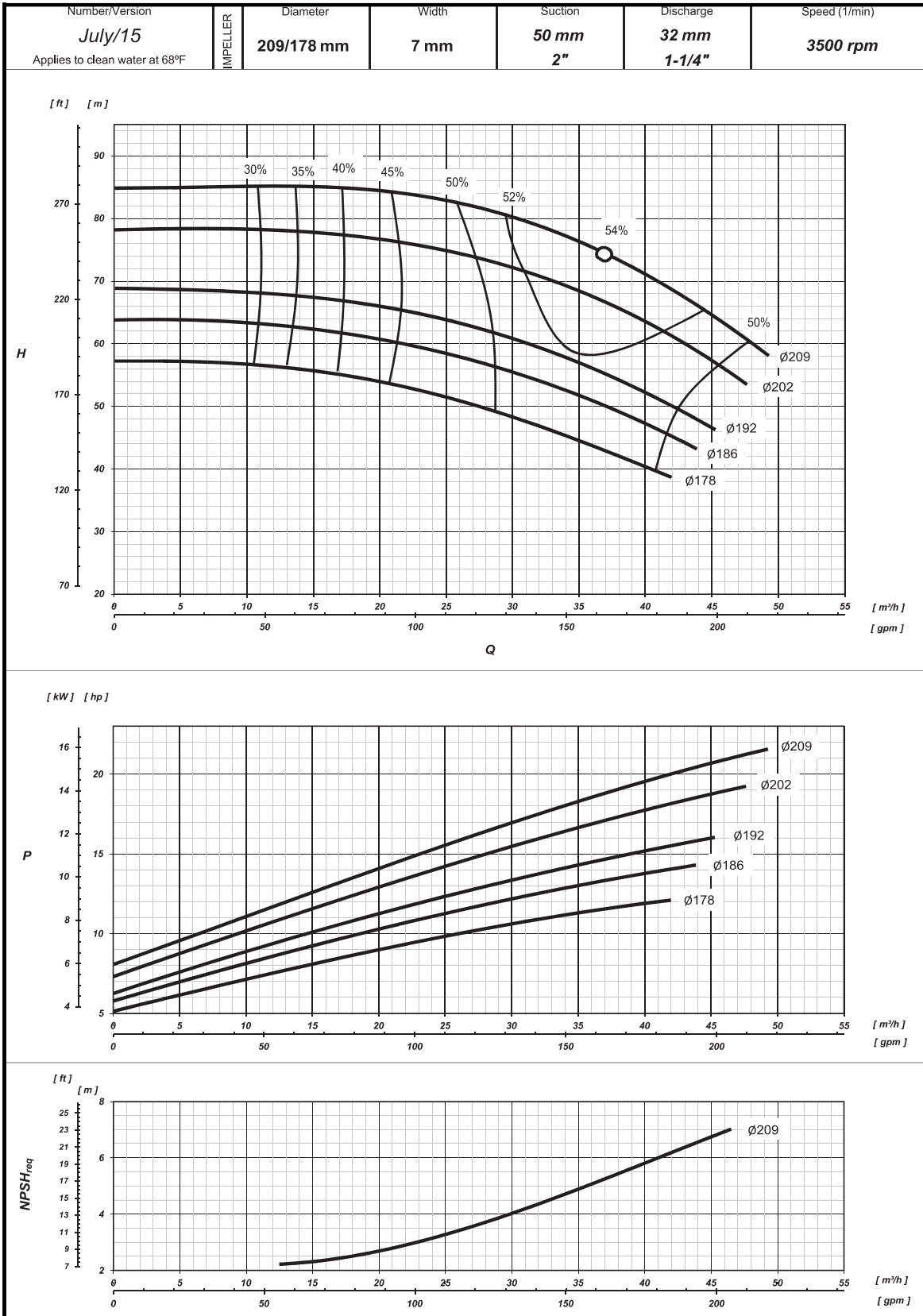
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
August/15 Applies to clean water at 68°F		176/136 mm	5 mm	50 mm 2"	32 mm 1-1/4"	3500 rpm



TH 32-200

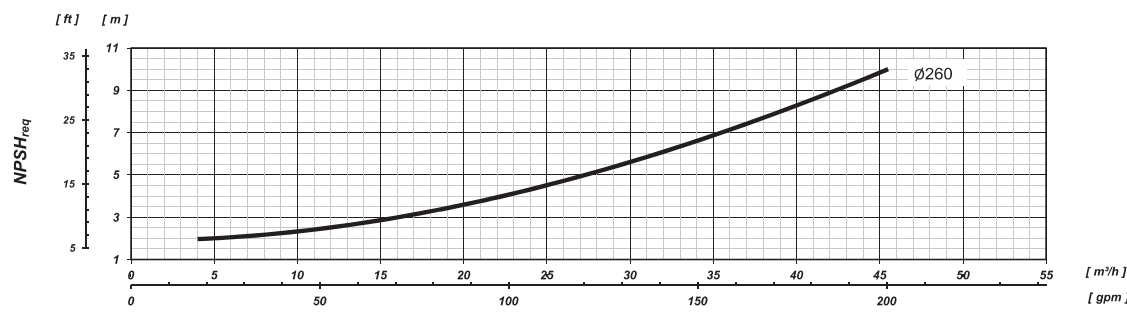
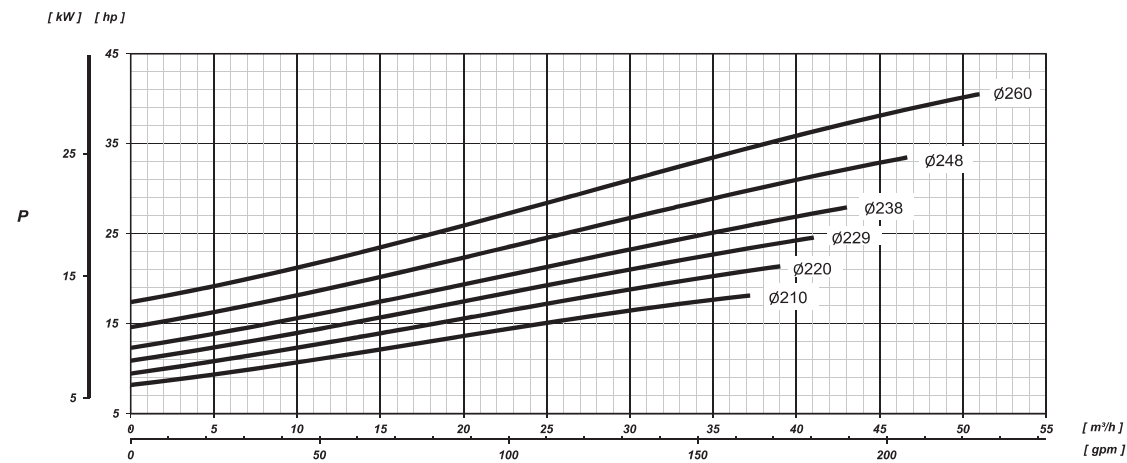
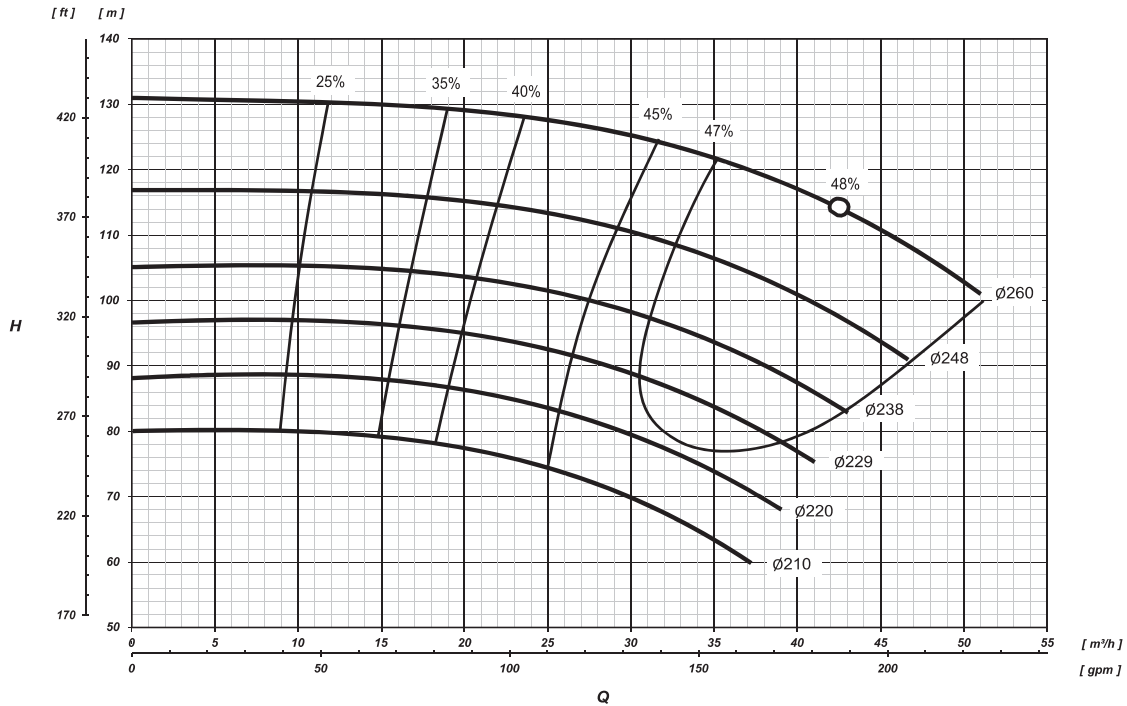
Single Stage Closed Impeller



TH 32-250.1

Single Stage Closed Impeller

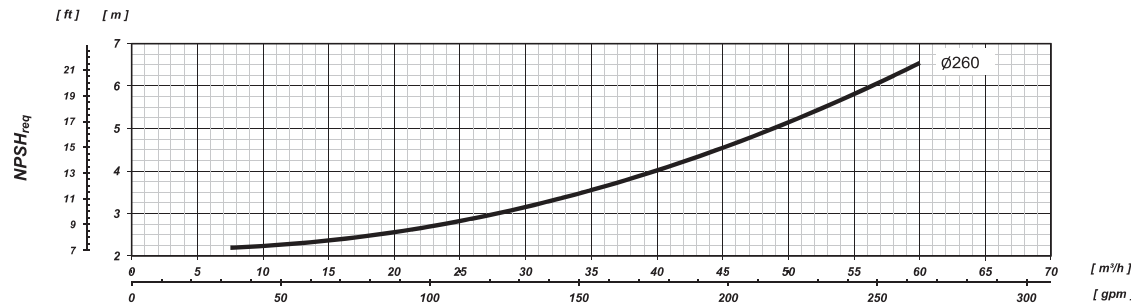
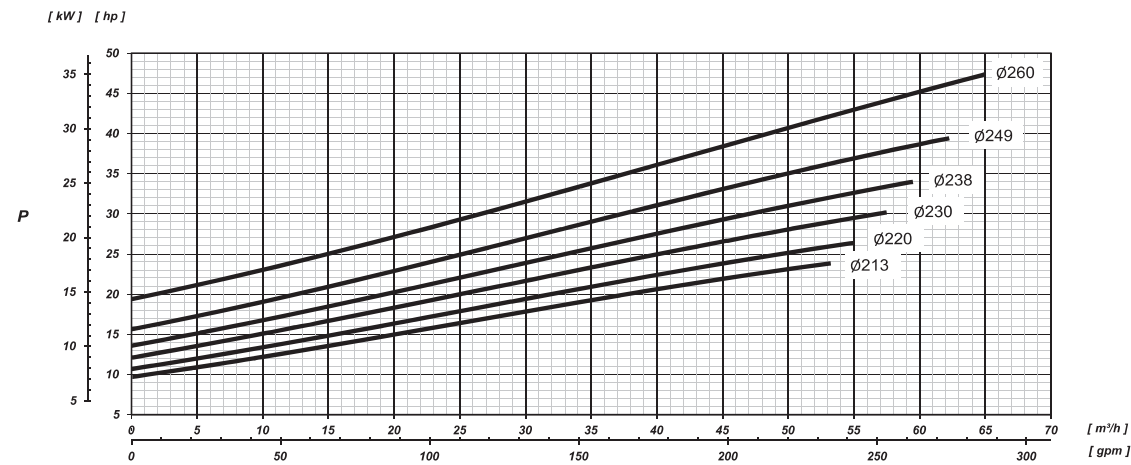
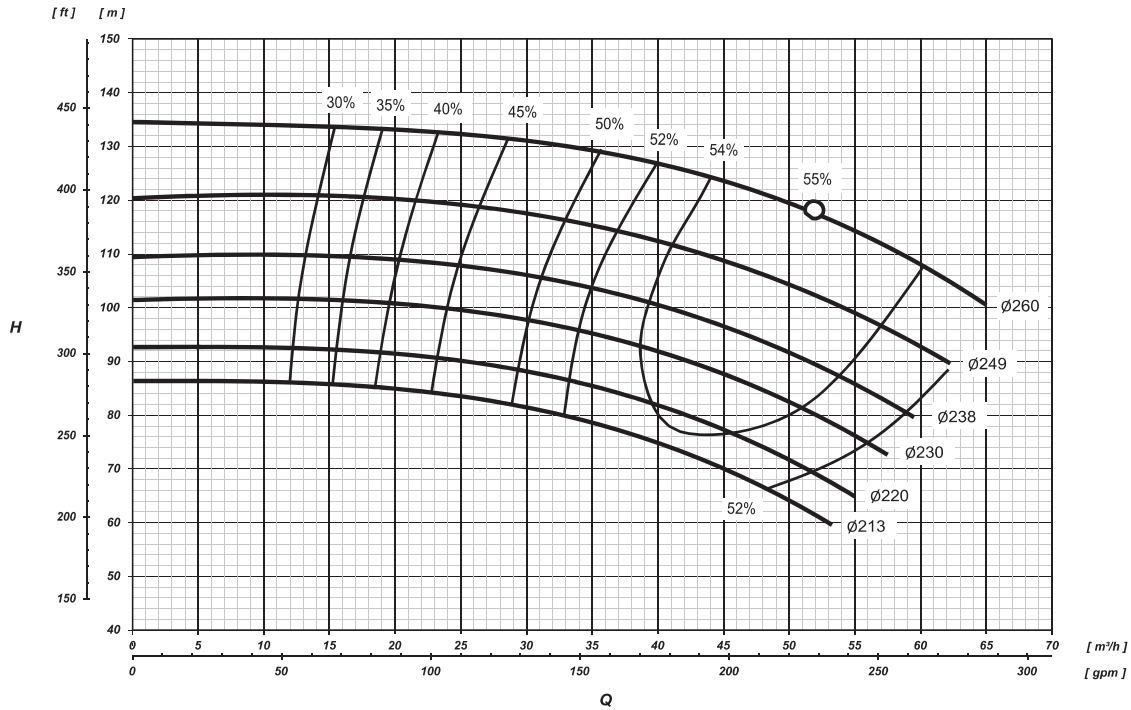
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
January/16 Applies to clean water at 68°F		260/210 mm	8 mm	50 mm 2"	32 mm 1-1/4"	3500 rpm



TH 32-250

Single Stage Closed Impeller

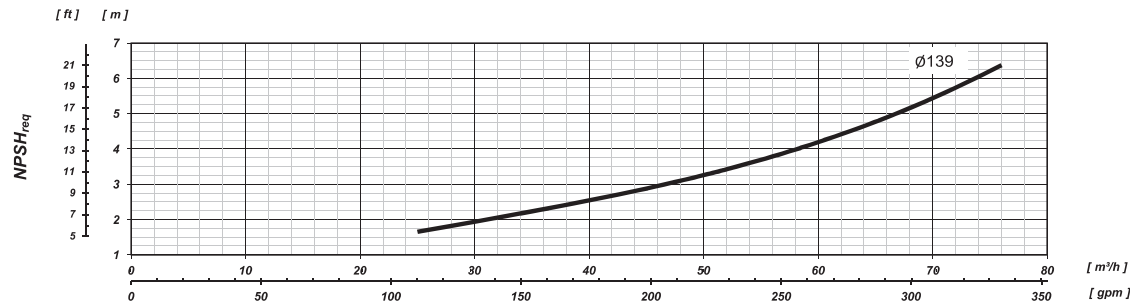
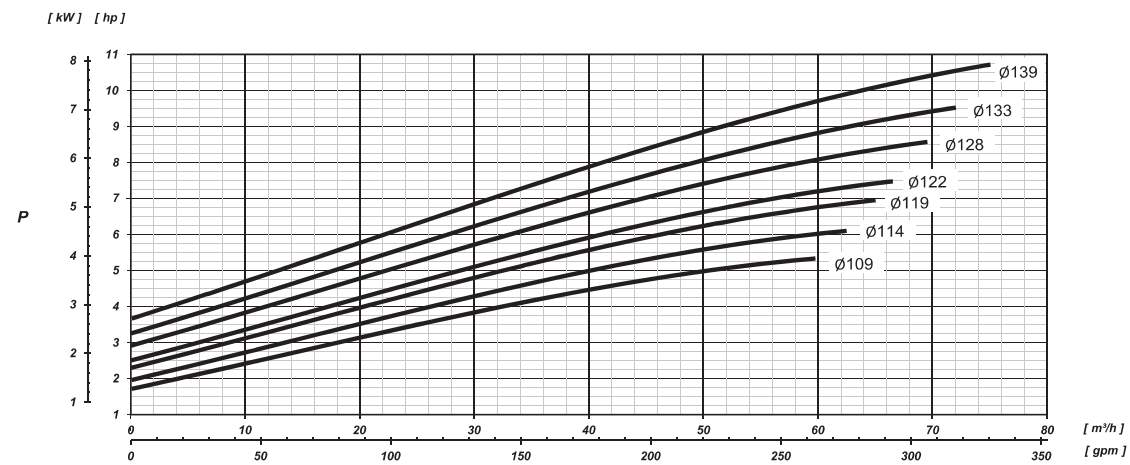
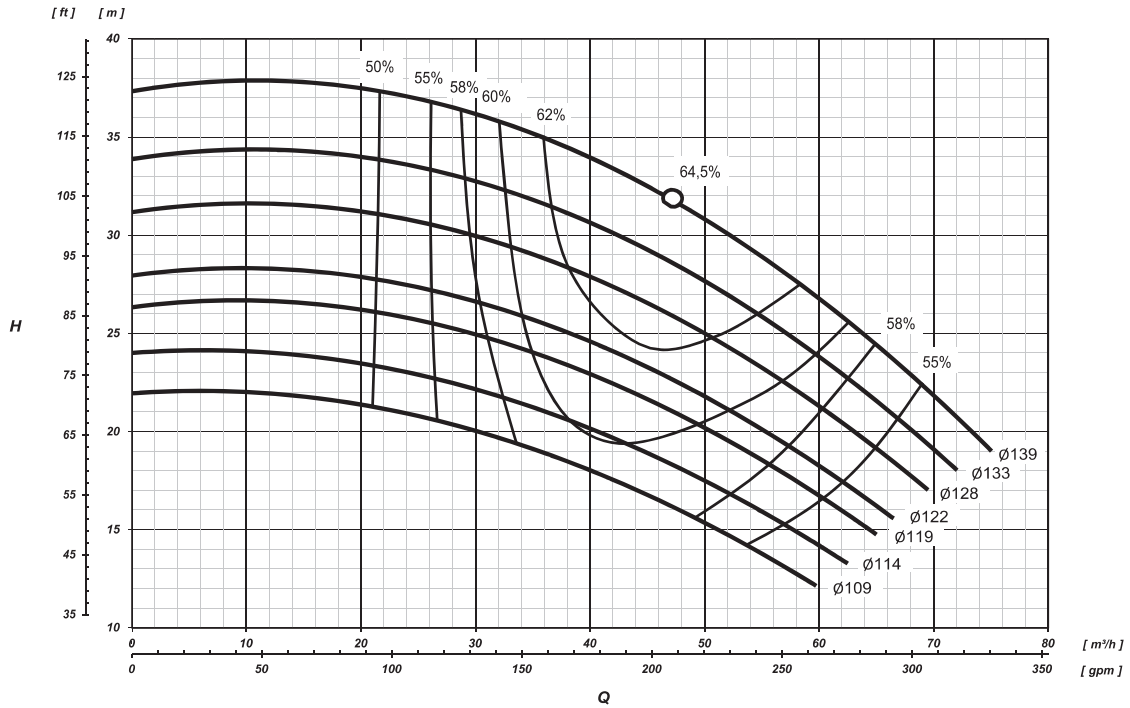
Number/Version August/15 Applies to clean water at 68°F	IMPELLER	Diameter 260/213 mm	Width 8 mm	Suction 50 mm 2"	Discharge 32 mm 1-1/4"	Speed (1/min) 3500 rpm
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TH 40-125

Single Stage Closed Impeller

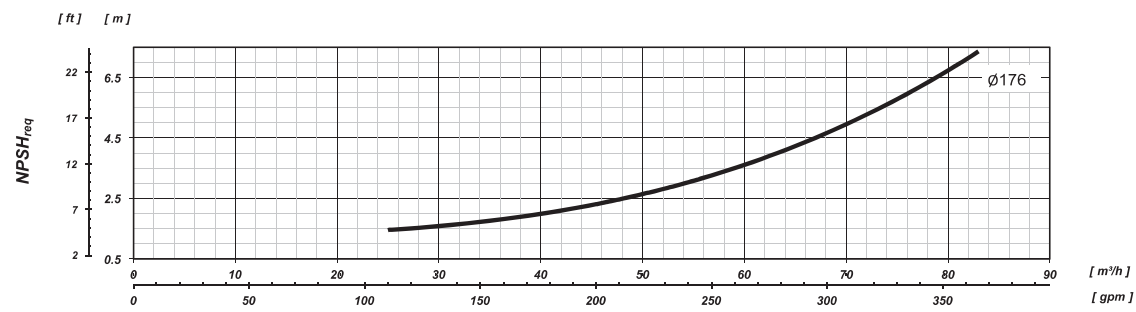
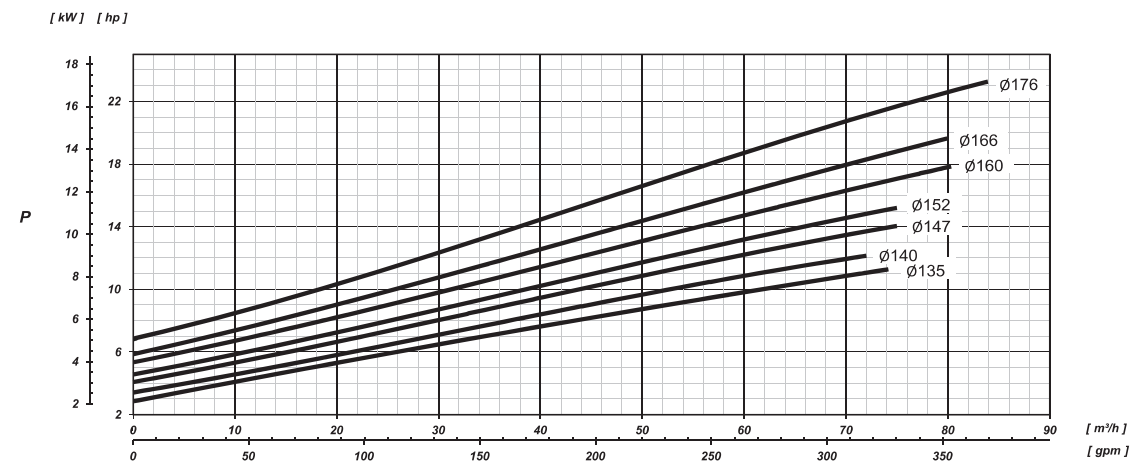
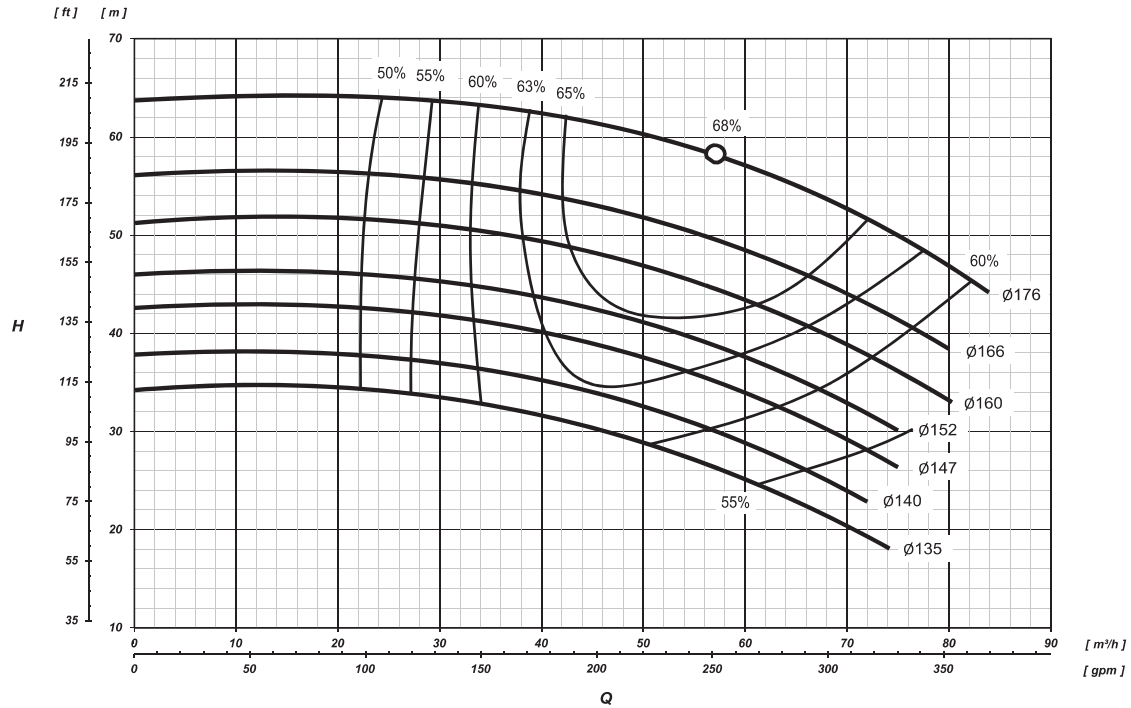
Number/Version August/15 Applies to clean water at 68°F	IMPELLER	Diameter 139/109 mm	Width 14 mm	Suction 65 mm 2 1/2"	Discharge 40 mm 1-1/2"	Speed (1/min) 3500 rpm
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TH 40-160

Single Stage Closed Impeller

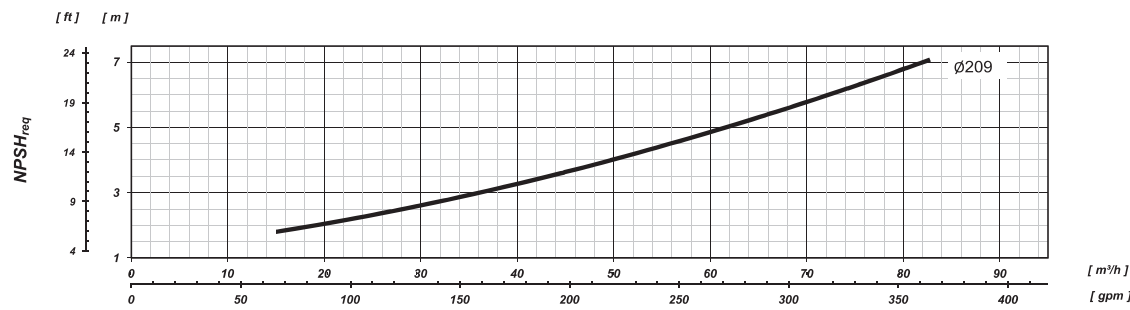
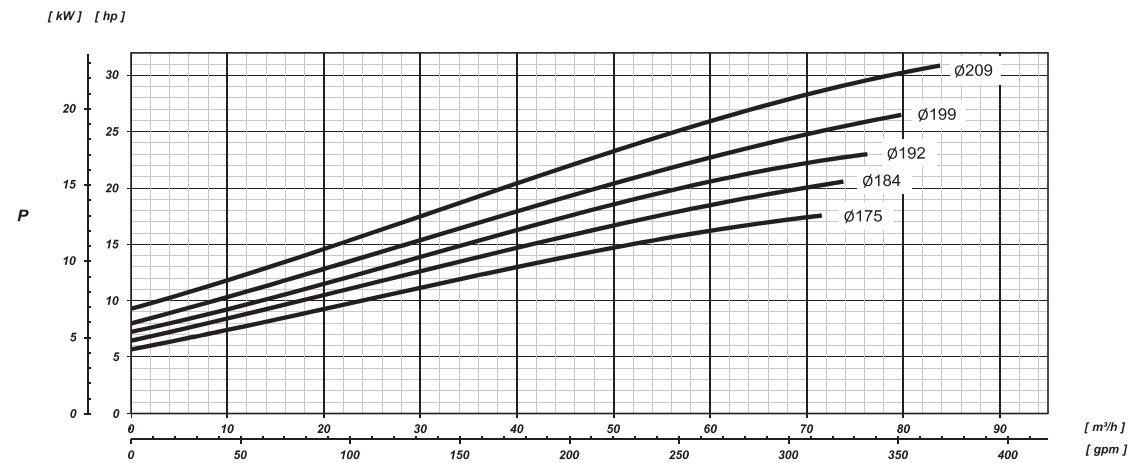
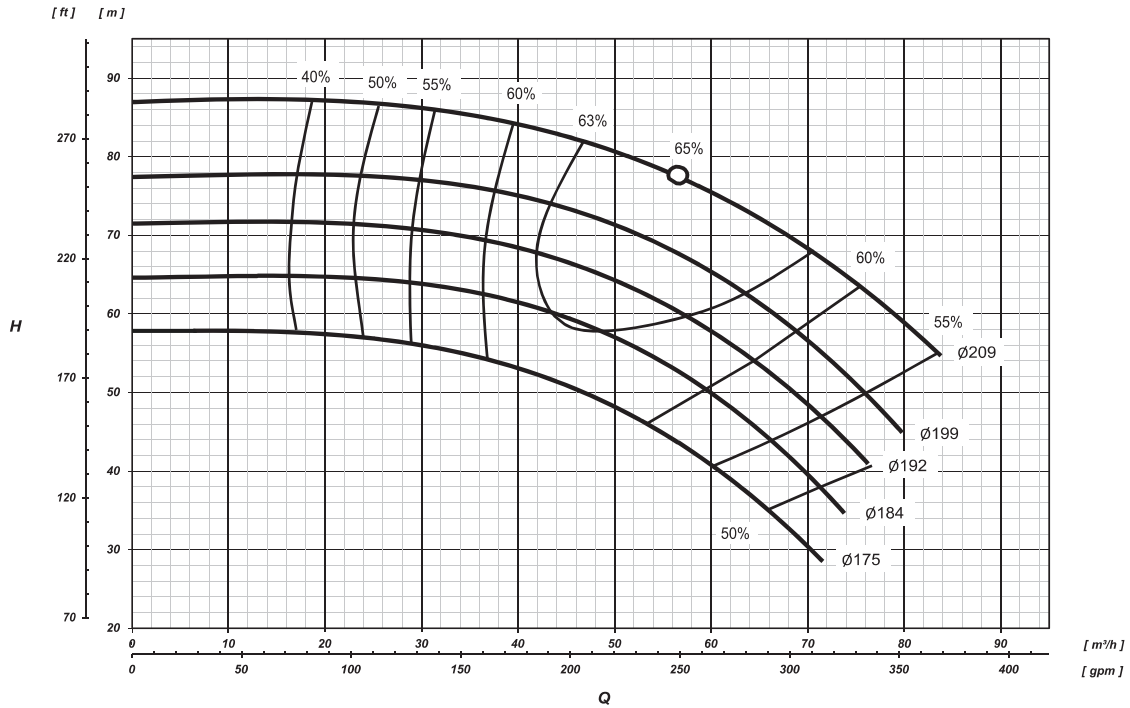
Number/Version August/15 Applies to clean water at 68°F	IMPELLER	Diameter 176/135 mm	Width 12 mm	Suction 65 mm 2-1/2"	Discharge 40 mm 1-1/2"	Speed (1/min) 3500 rpm
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TH 40-200

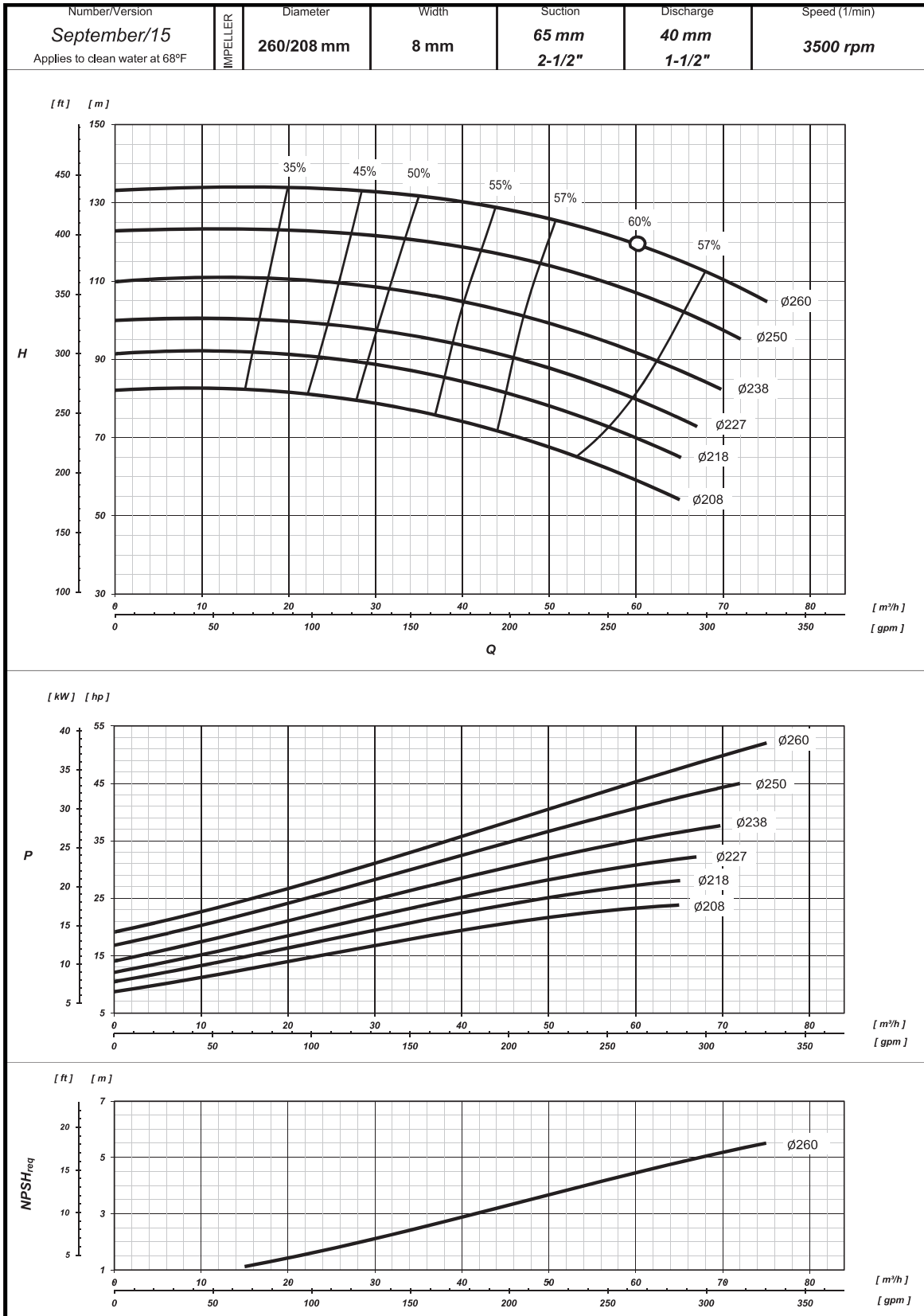
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		209/175 mm	9 mm	65 mm 2-1/2"	40 mm 1-1/2"	3500 rpm



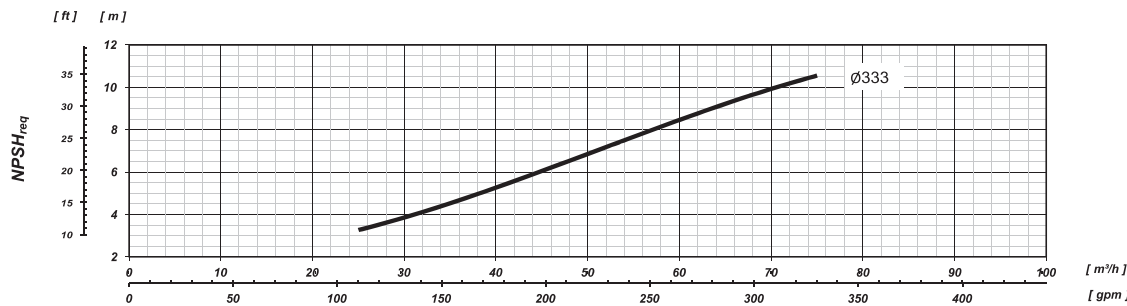
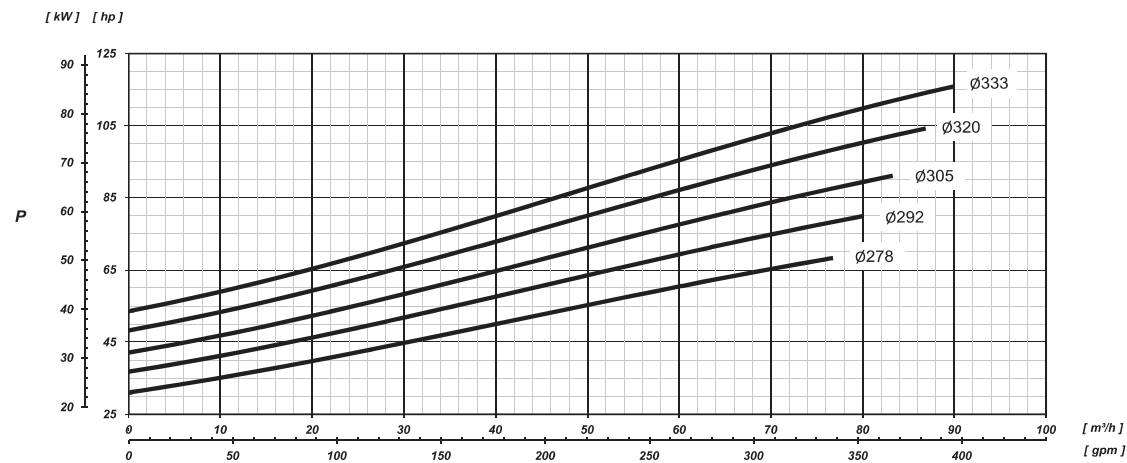
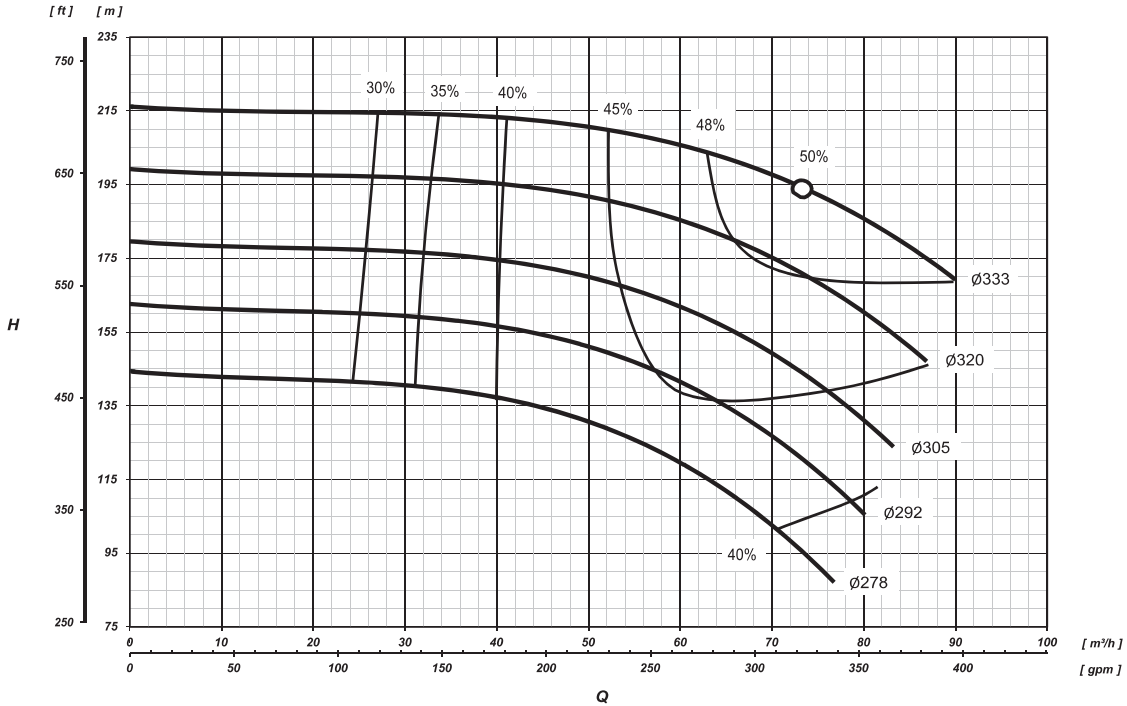
TH 40-250

Single Stage Closed Impeller



TH 40-315 Single Stage Closed Impeller

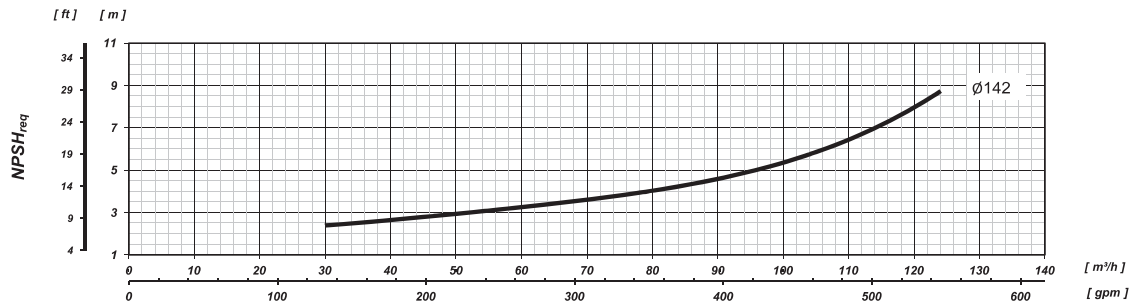
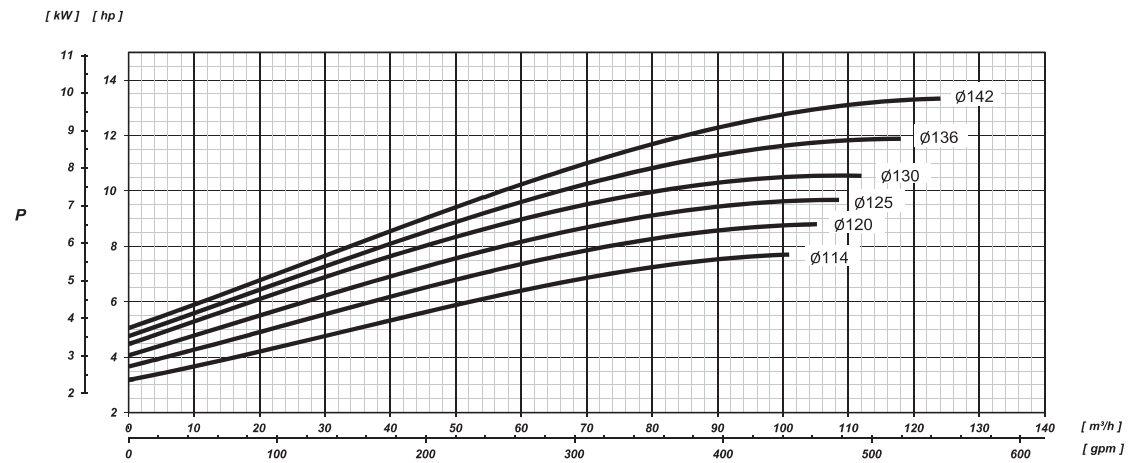
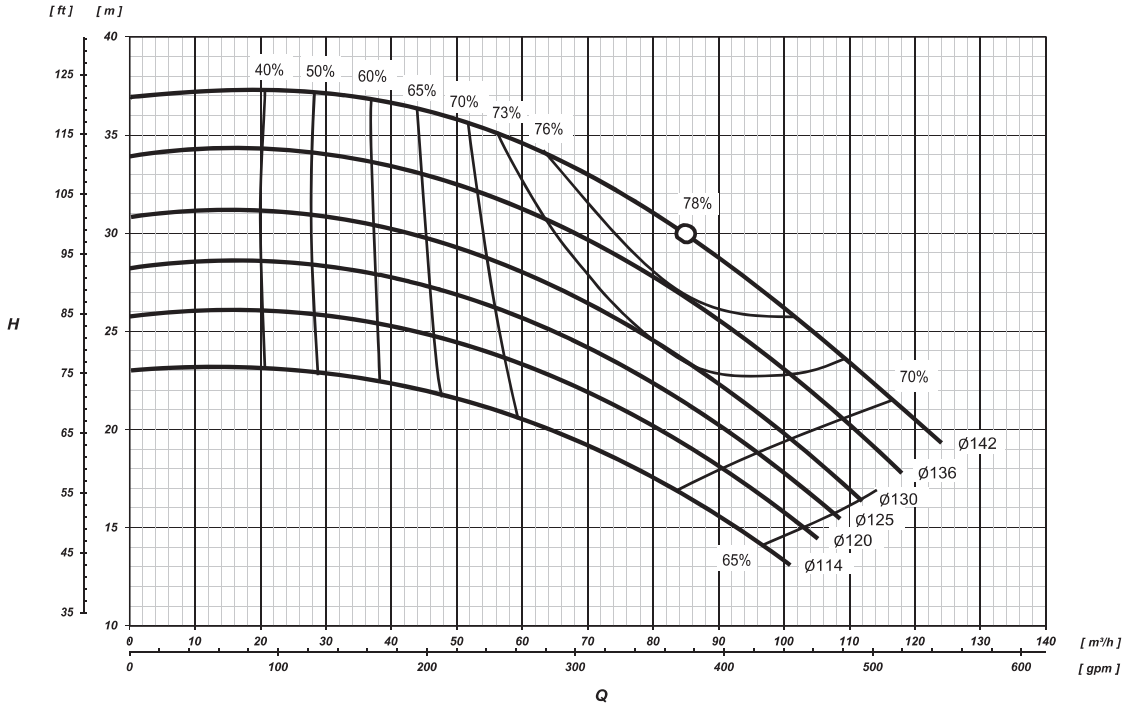
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		333/278 mm	9 mm	65 mm 2-1/2"	40 mm 1-1/2"	3500 rpm



TH 50-125

Single Stage Closed Impeller

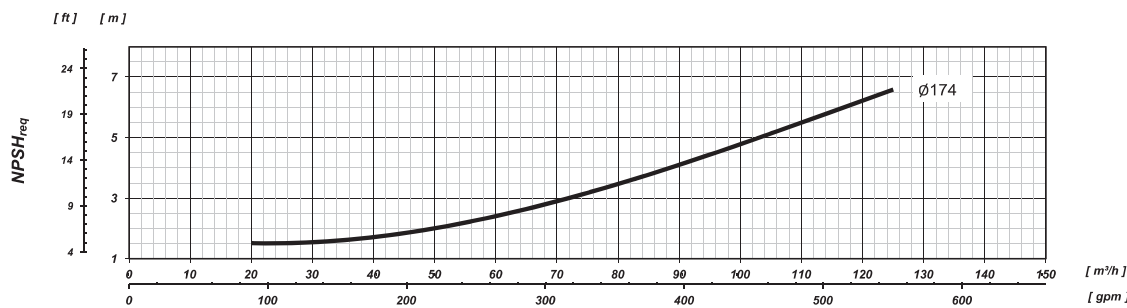
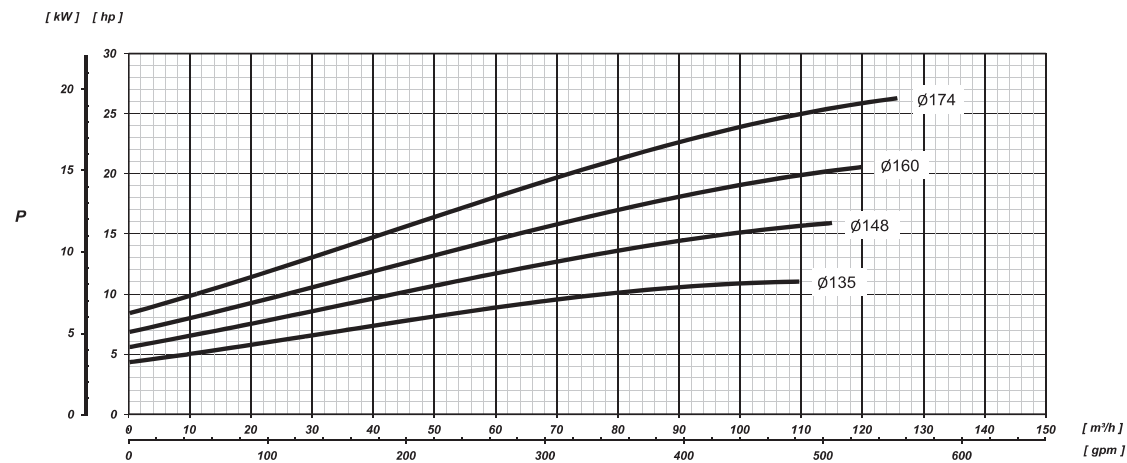
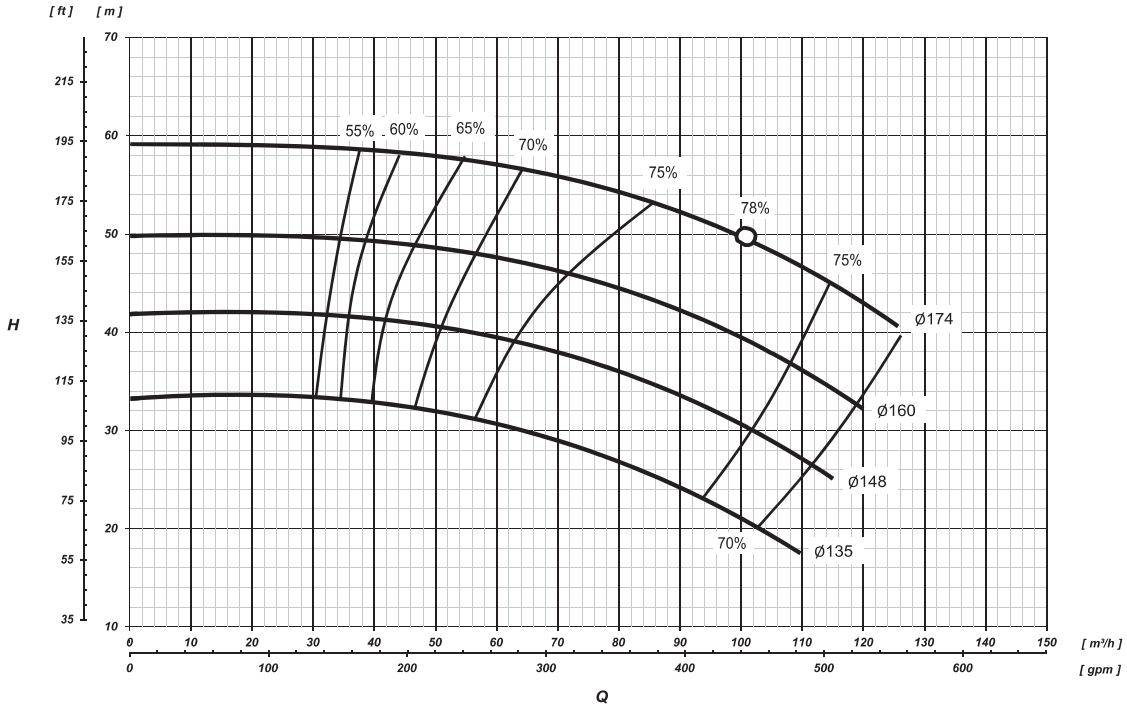
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		142/114 mm	20 mm	80 mm 3"	50 mm 2"	3500 rpm



TH 50-160

Single Stage Closed Impeller

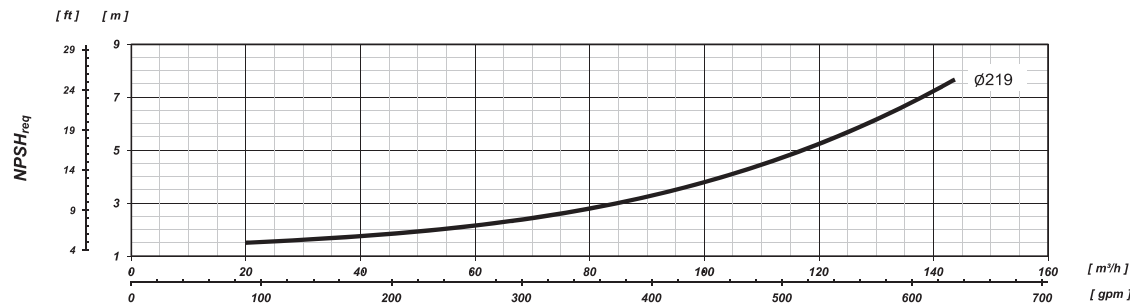
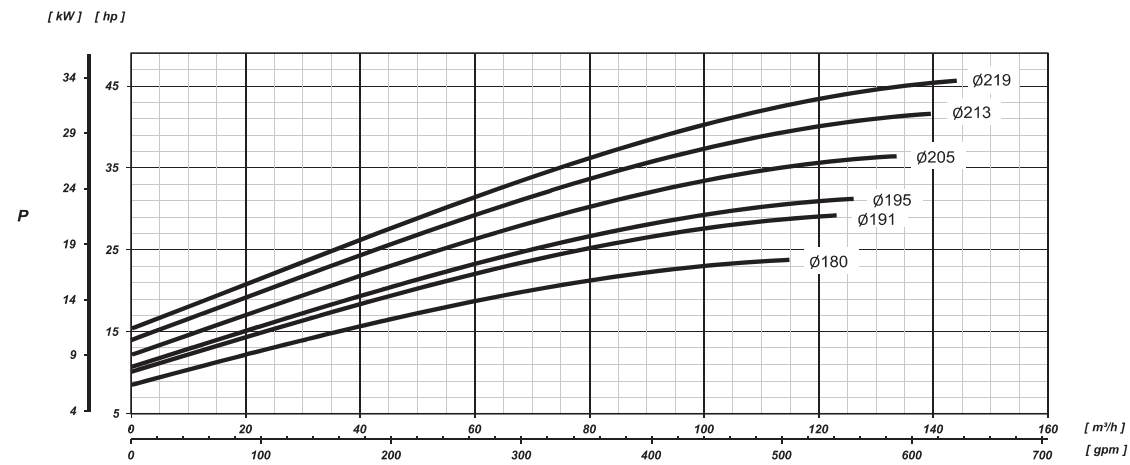
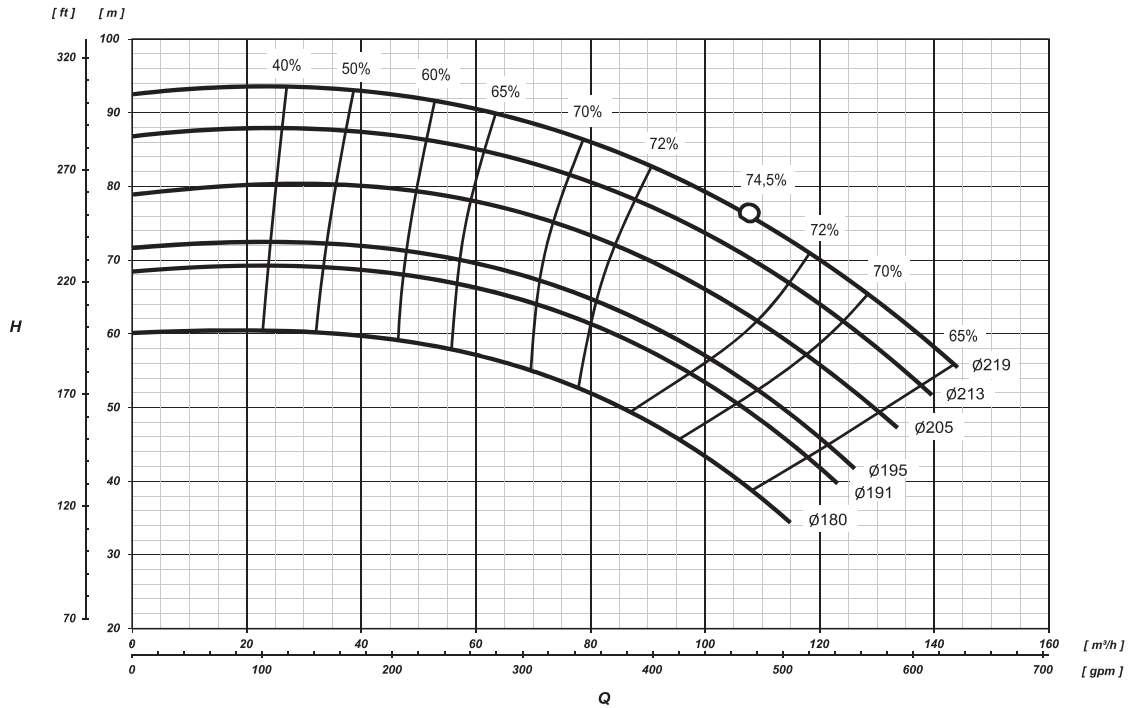
Number/Version September/15 Applies to clean water at 68°F	IMPELLER	Diameter 174/135 mm	Width 16 mm	Suction 80 mm 3"	Discharge 50 mm 2"	Speed (1/min) 3500 rpm
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TH 50-200

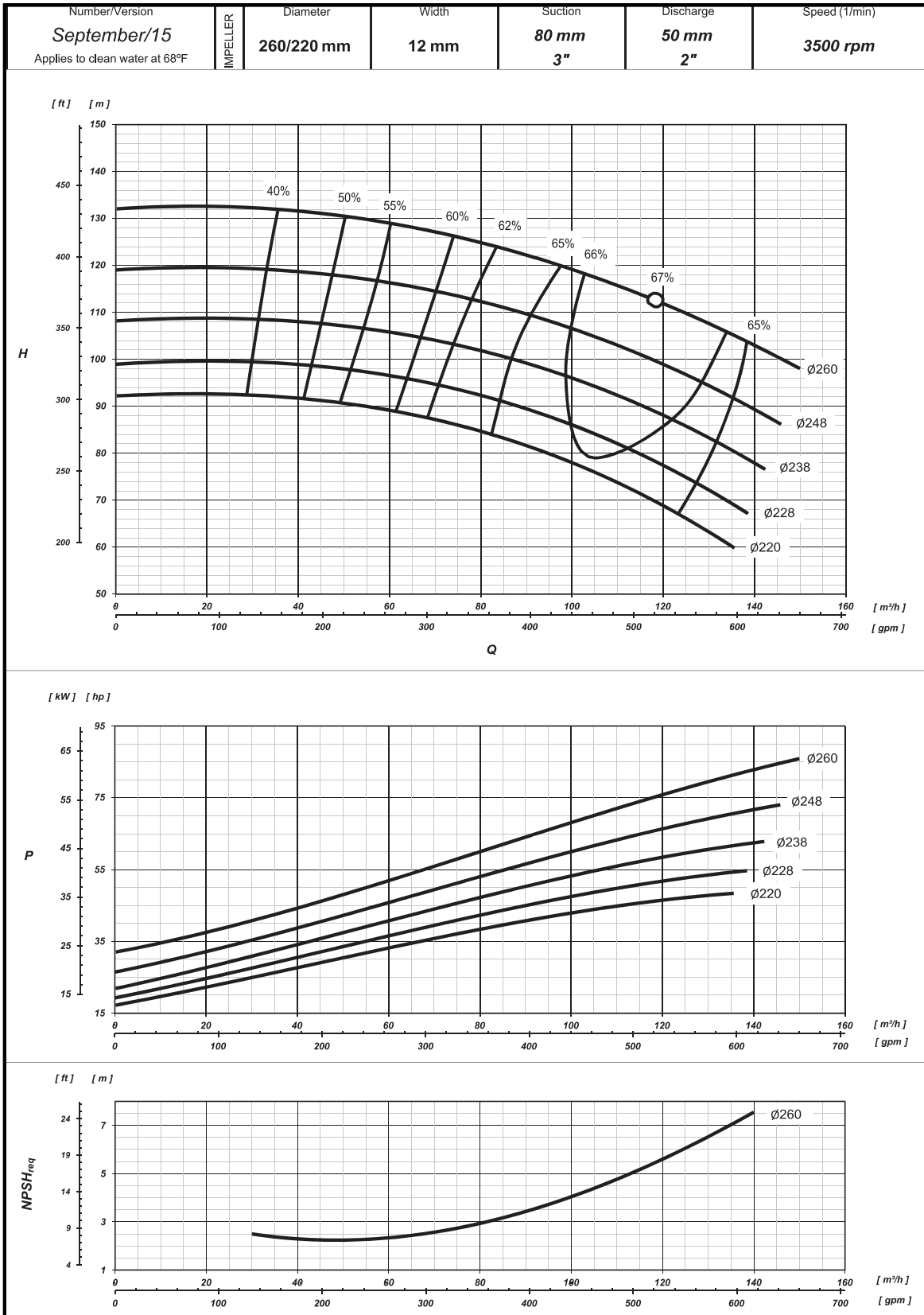
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		219/180 mm	11 mm	80 mm 3"	50 mm 2"	3500 rpm



TH 50-250

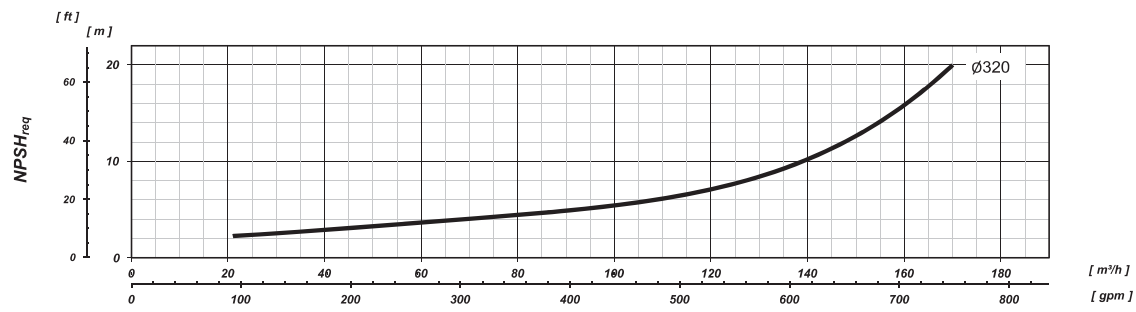
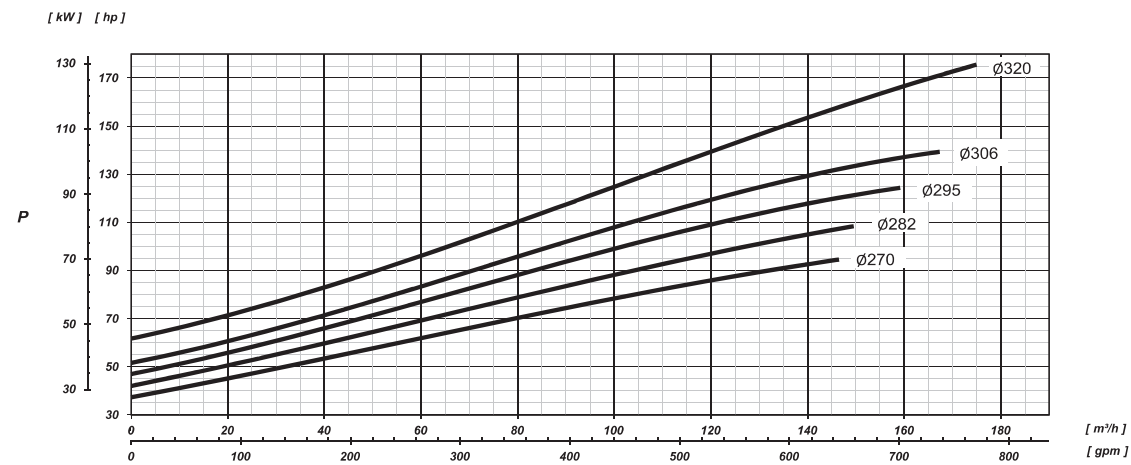
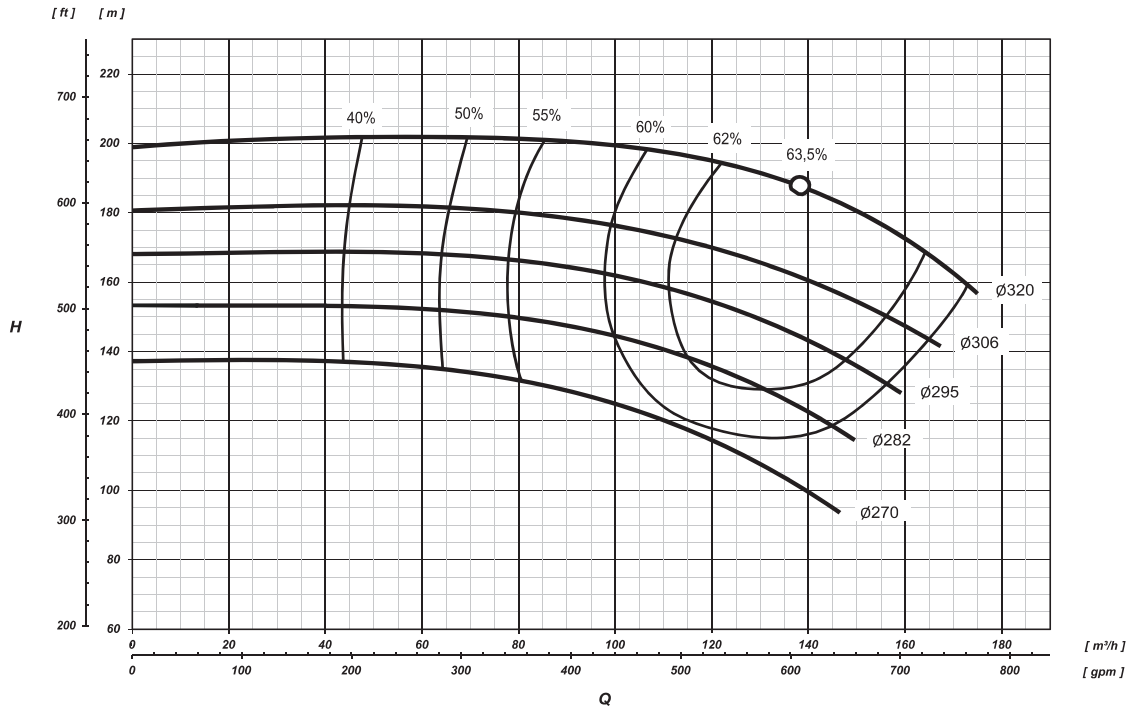
Single Stage Closed Impeller



TH 50-315

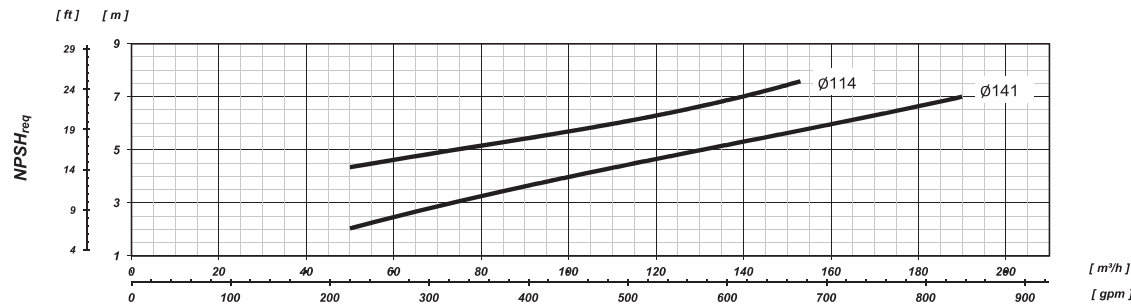
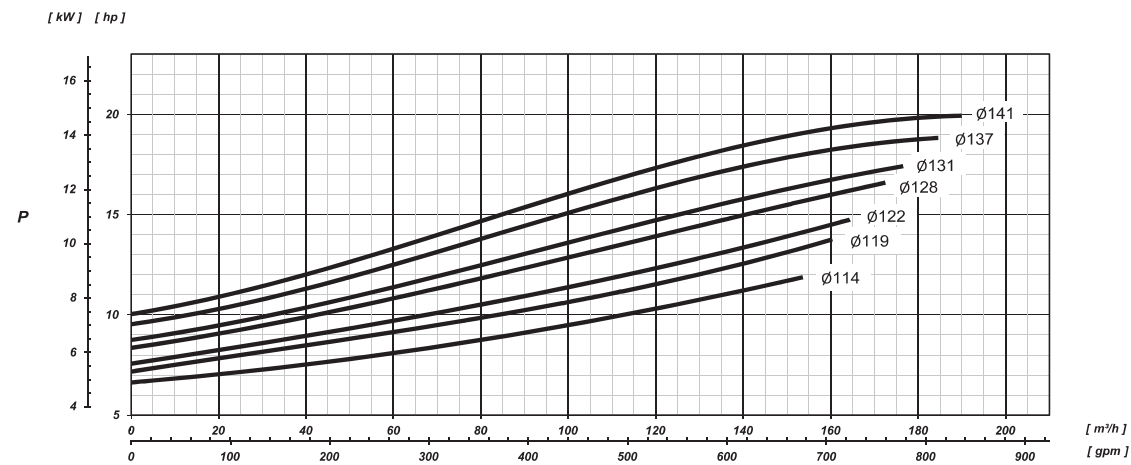
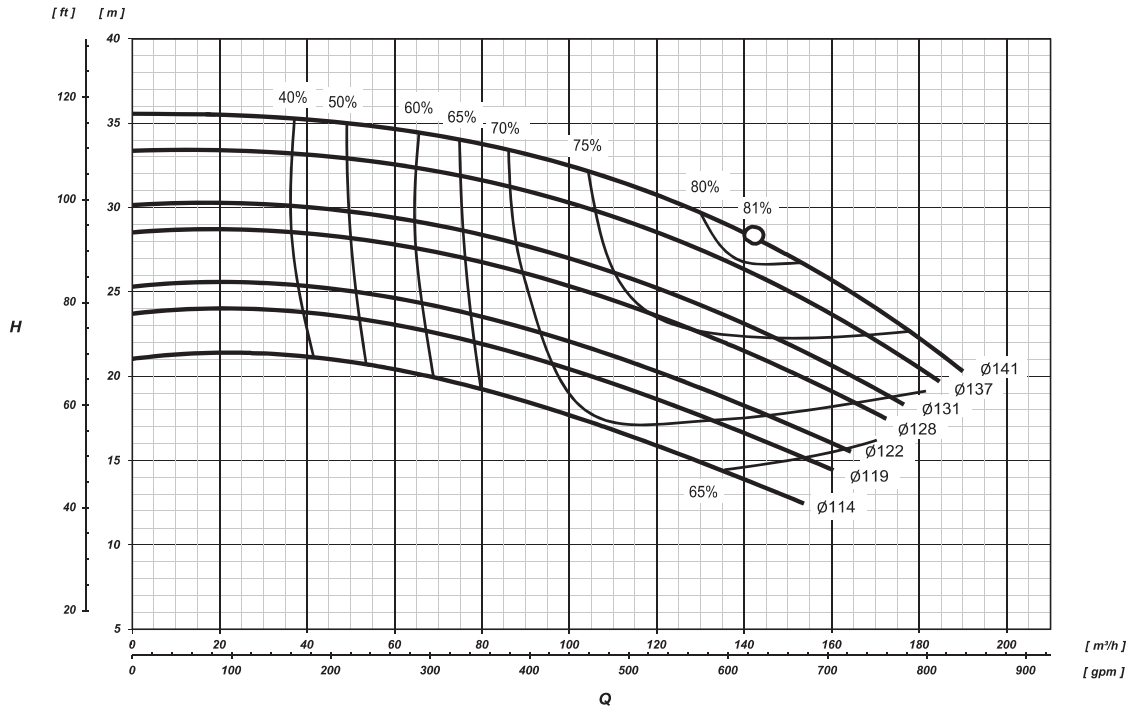
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
March/16		320/270 mm	9 mm	80 mm 3"	50 mm 2"	3500 rpm
Applies to clean water at 68°F						



TH 65-125 Single Stage Closed Impeller

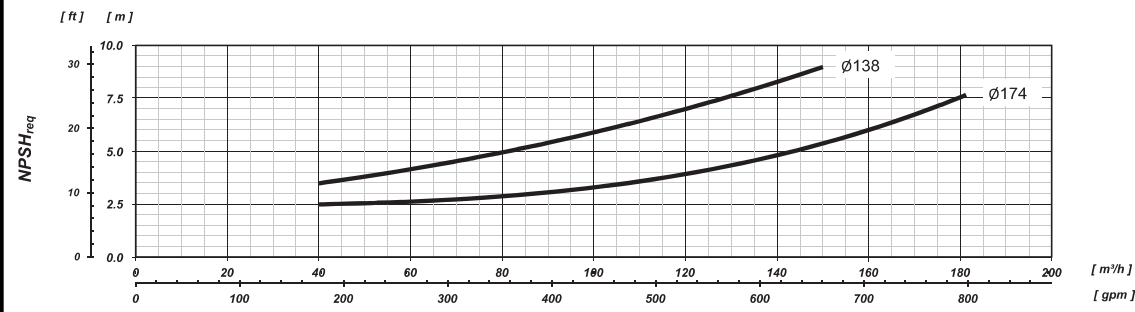
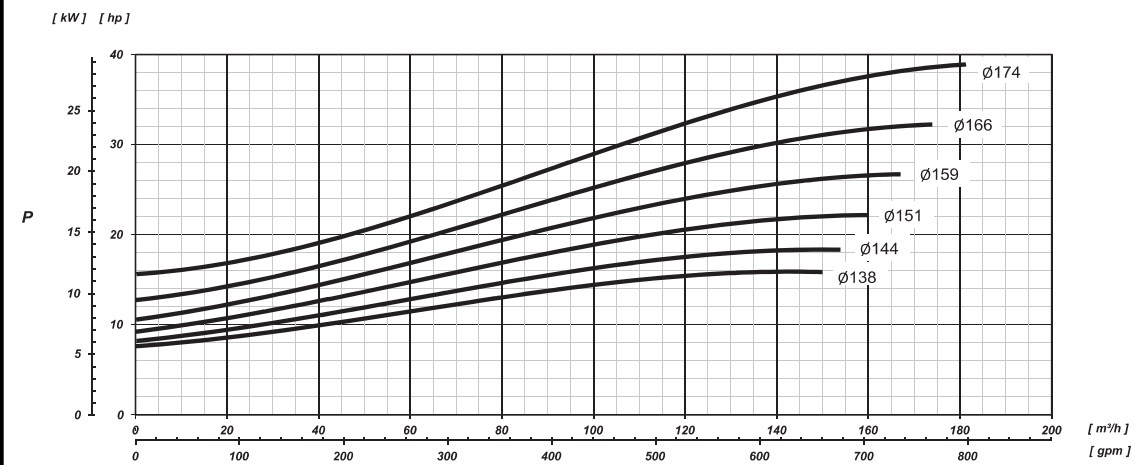
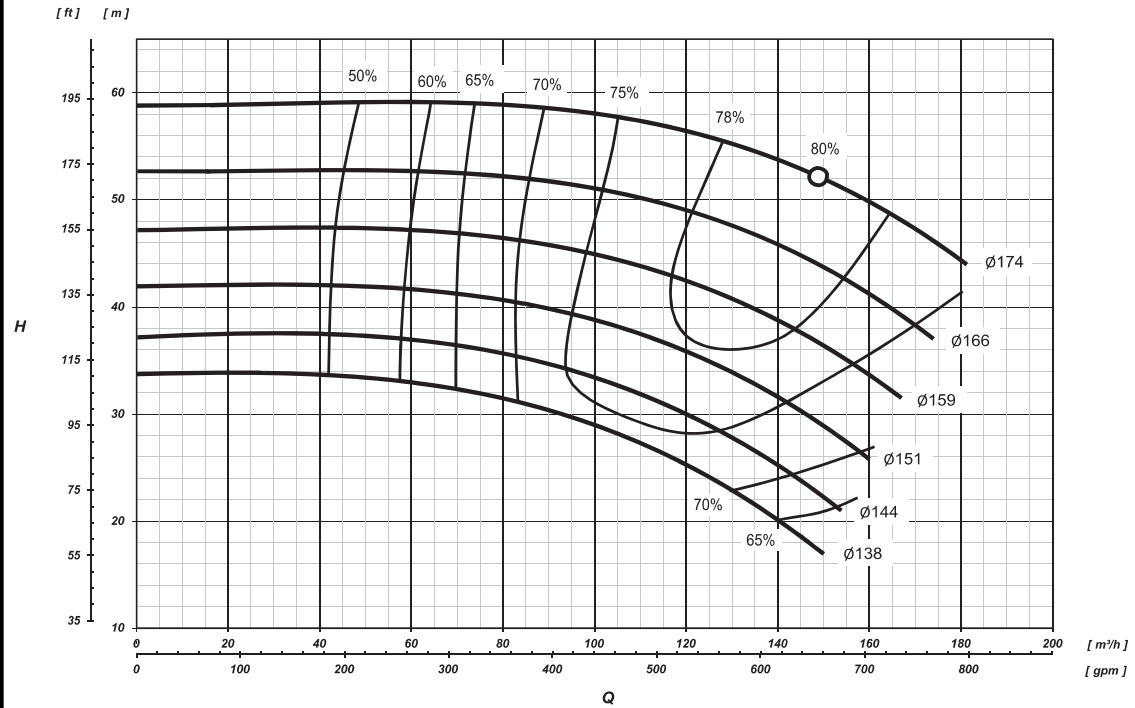
Number/Version September/15 Applies to clean water at 68°F	IMPELLER	Diameter 141/114 mm	Width 25 mm	Suction 100 mm 4"	Discharge 65 mm 2-1/2"	Speed (1/min) 3500 rpm
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TH 65-160

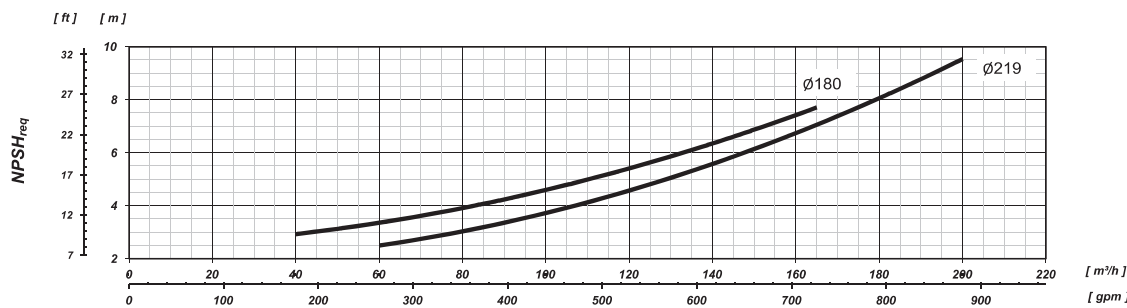
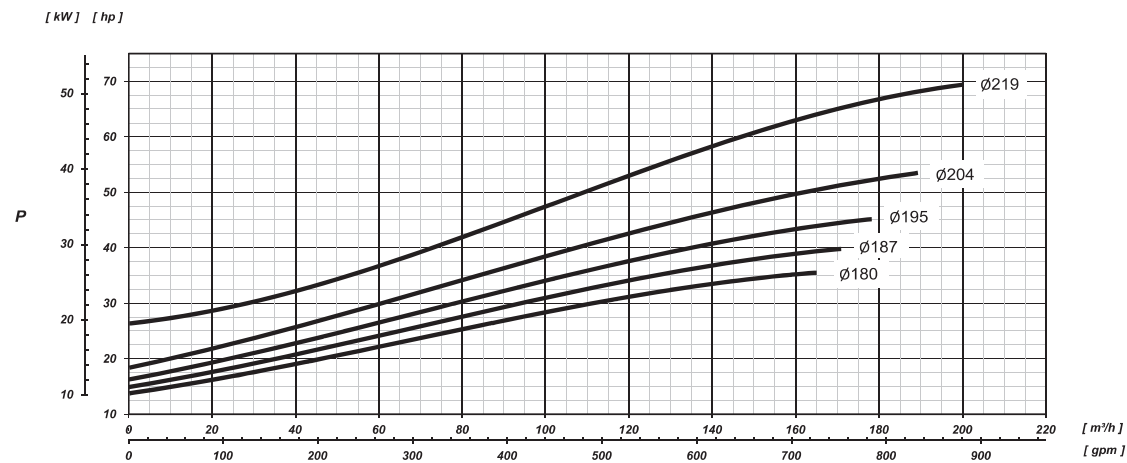
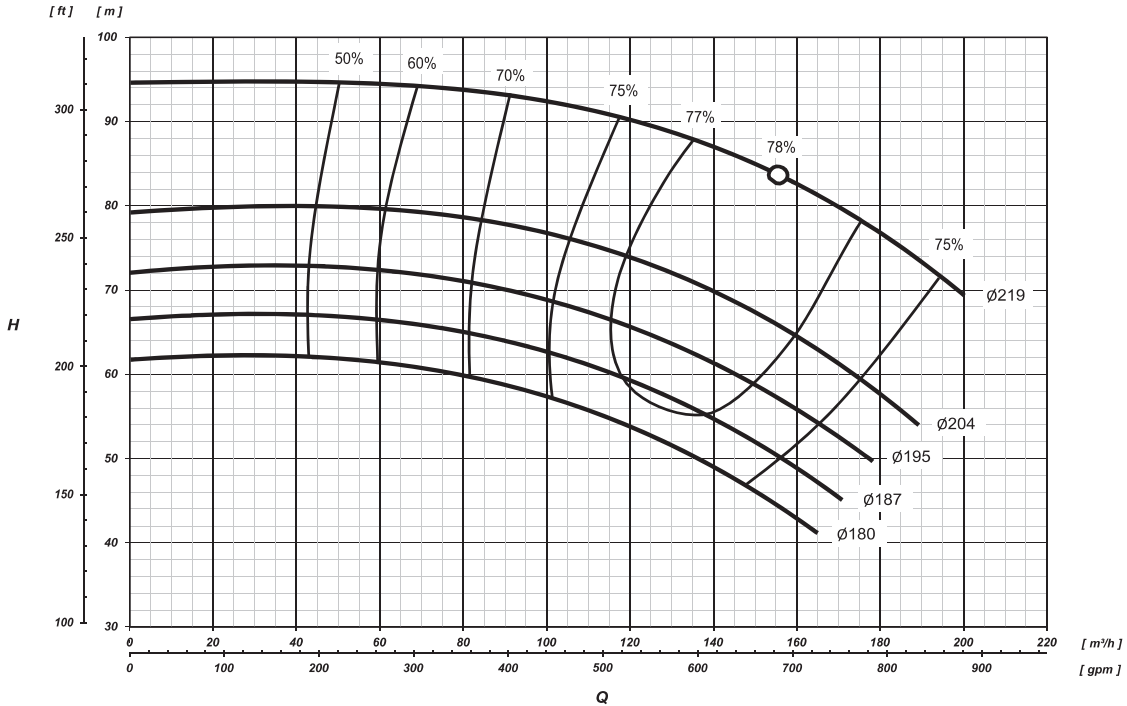
Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		174/138 mm	21 mm	100 mm 4"	65 mm 2-1/2"	3500 rpm



TH 65-200 Single Stage Closed Impeller

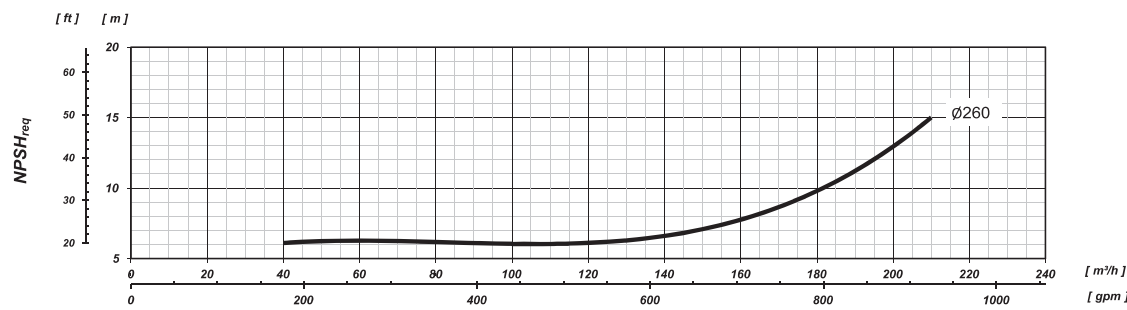
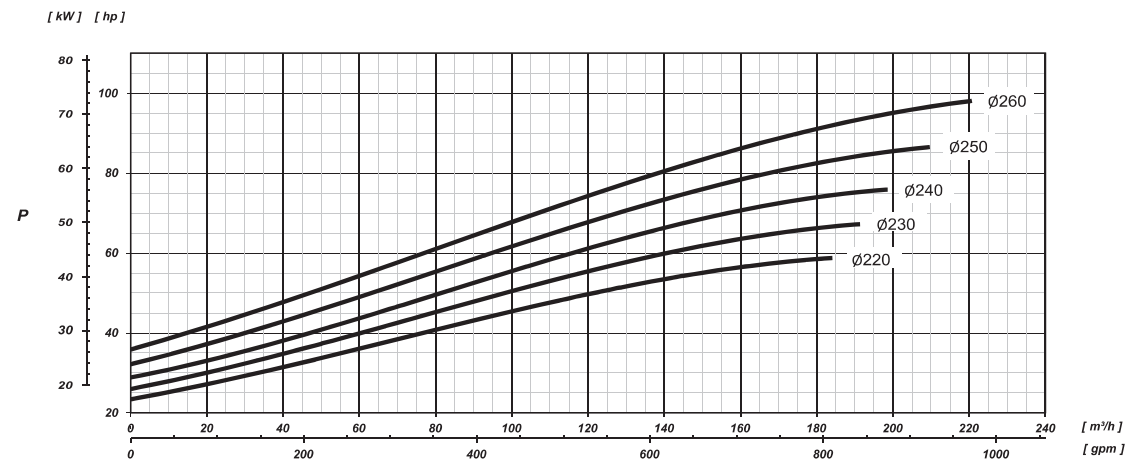
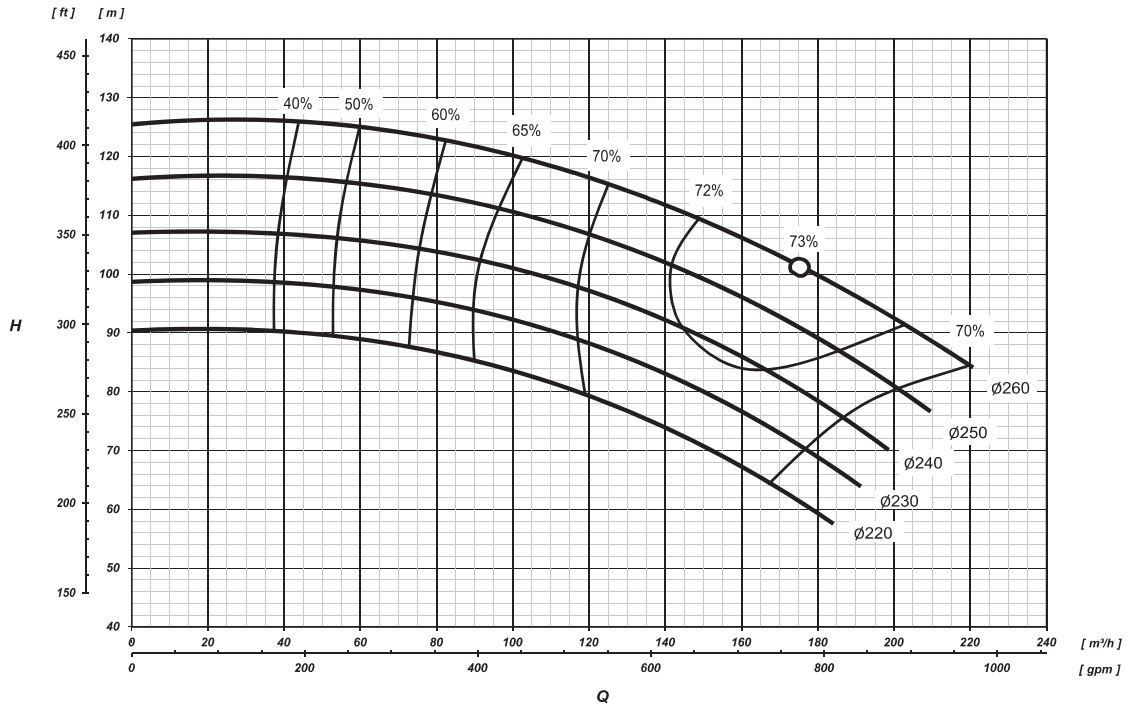
Number/Version September/15 Applies to clean water at 68°F	IMPELLER	Diameter 219/180 mm	Width 11 mm	Suction 100 mm 4"	Discharge 65 mm 2-1/2"	Speed (1/min) 3500 rpm
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TH 65-250

Single Stage Closed Impeller

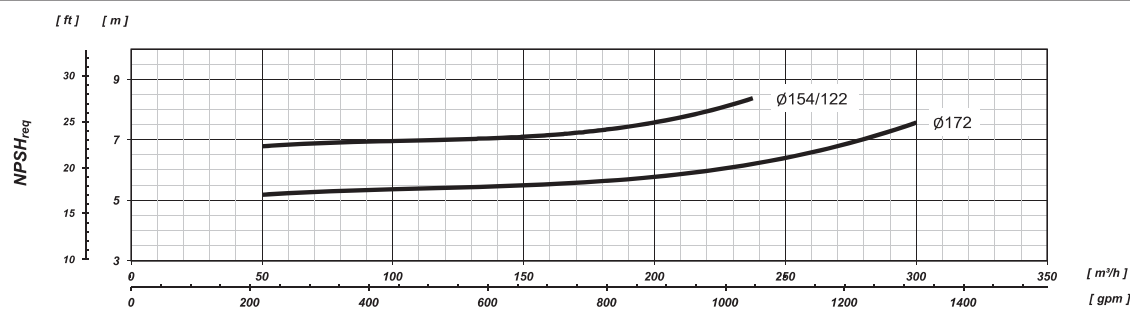
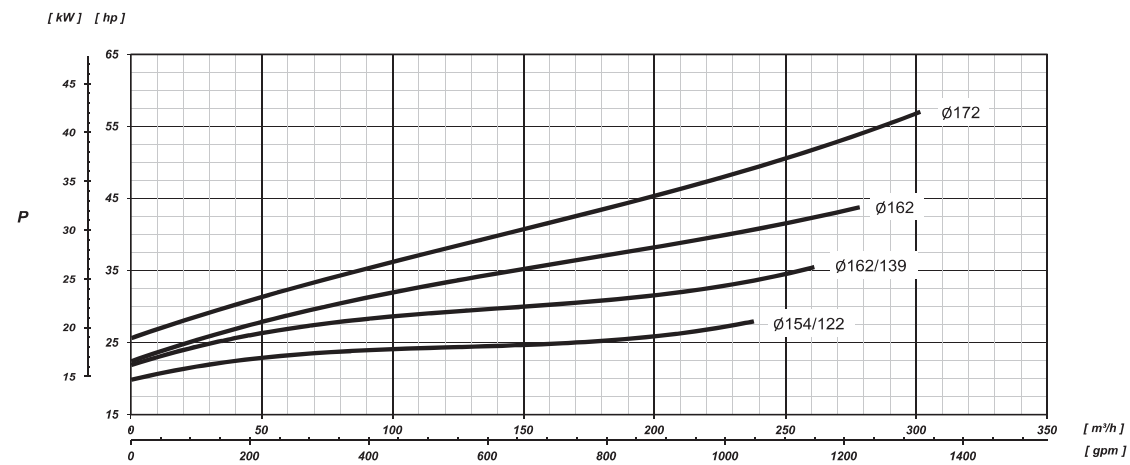
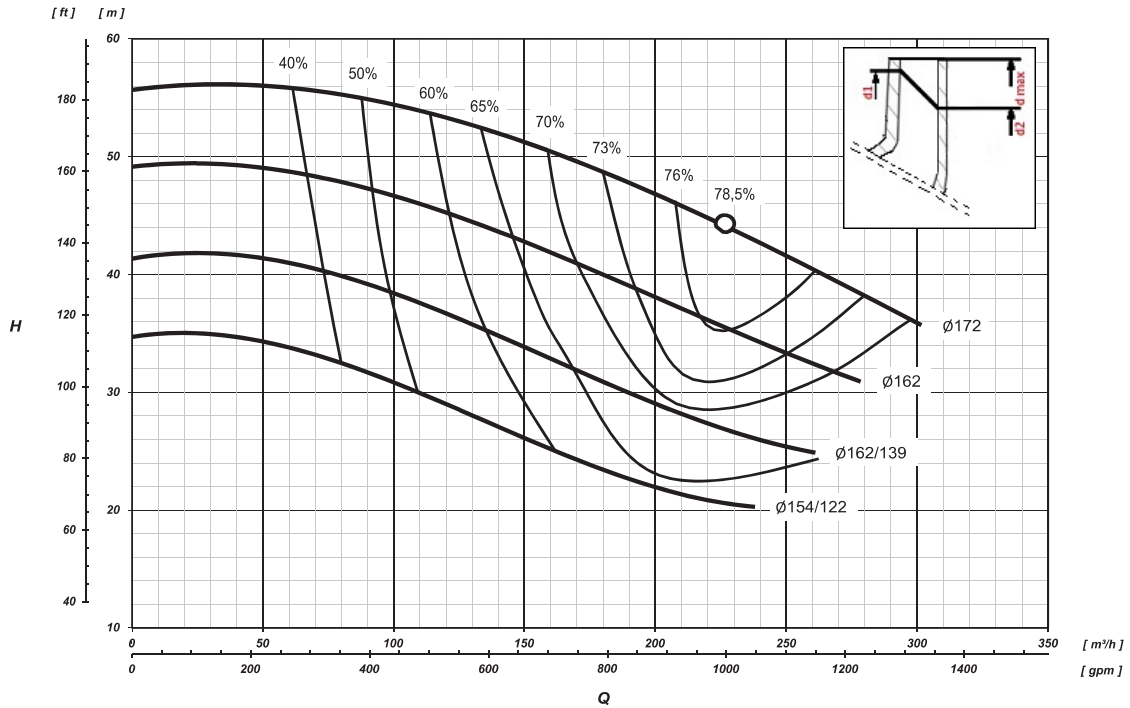
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
Febuary/16		260/220 mm	13 mm	100 mm 4"	65 mm 2-1/2"	3500 rpm
Applies to clean water at 68°F						



TH 80-160

Single Stage Closed Impeller

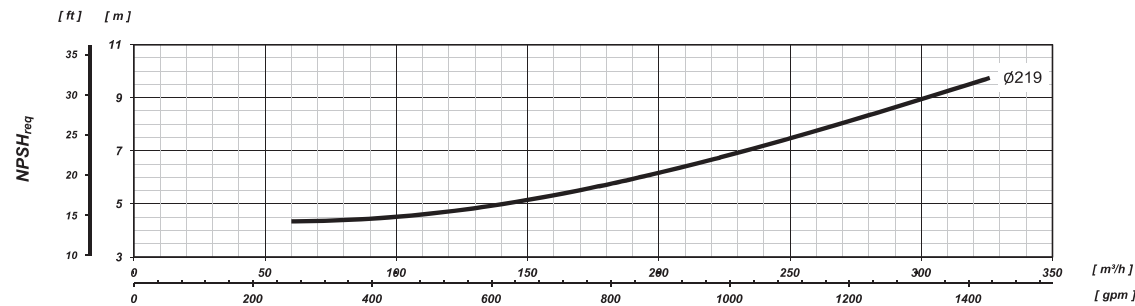
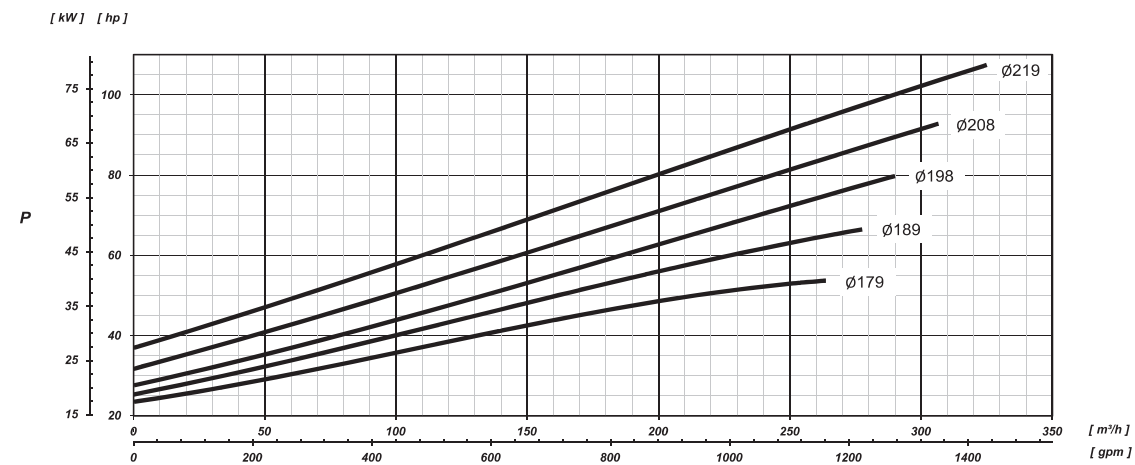
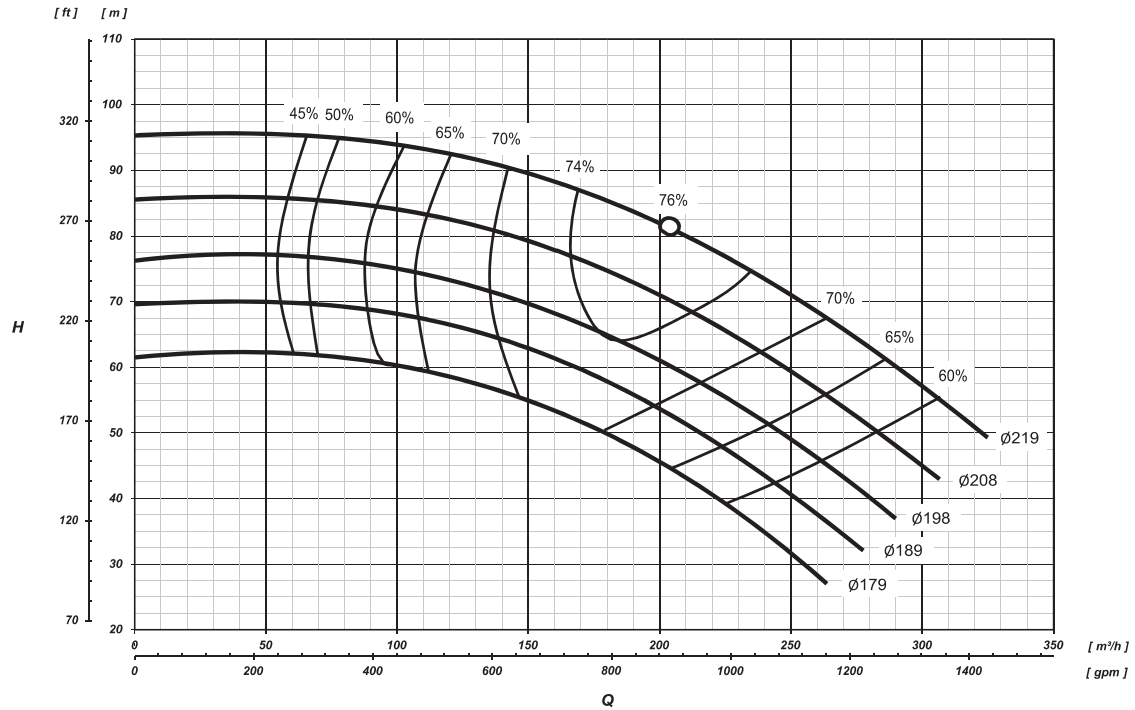
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		172/122 mm	31 mm	125 mm 5"	80 mm 3"	3500 rpm



TH 80-200

Single Stage Closed Impeller

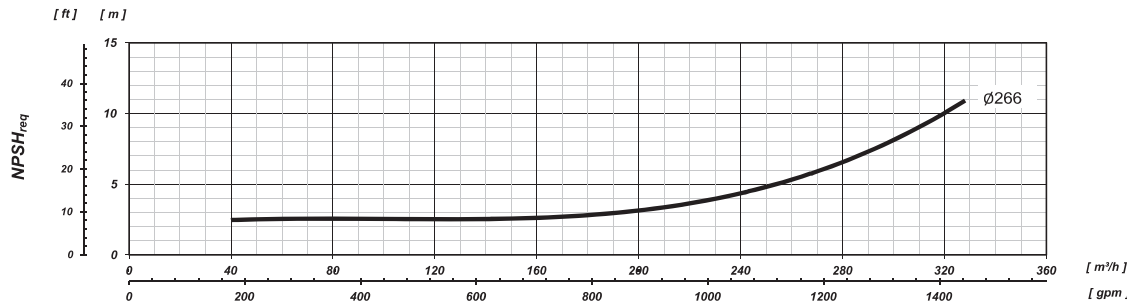
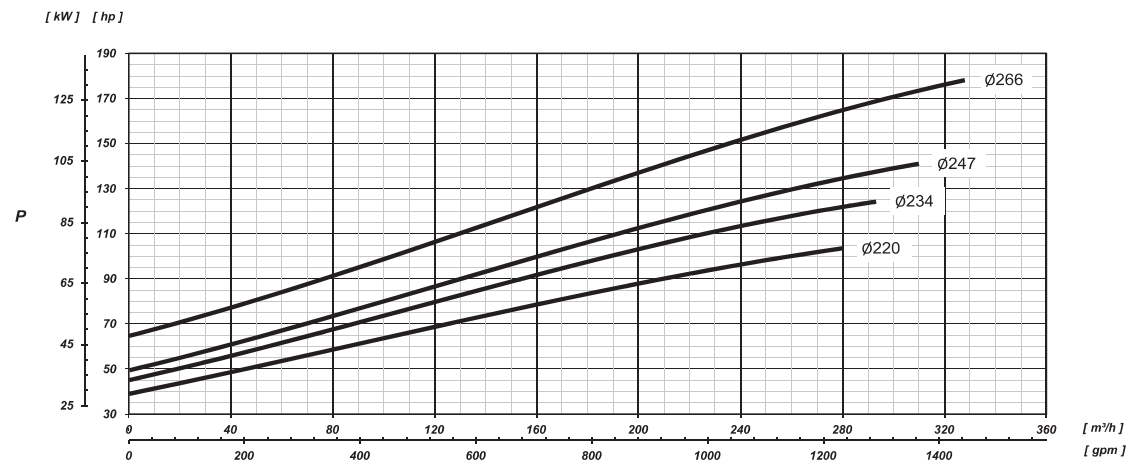
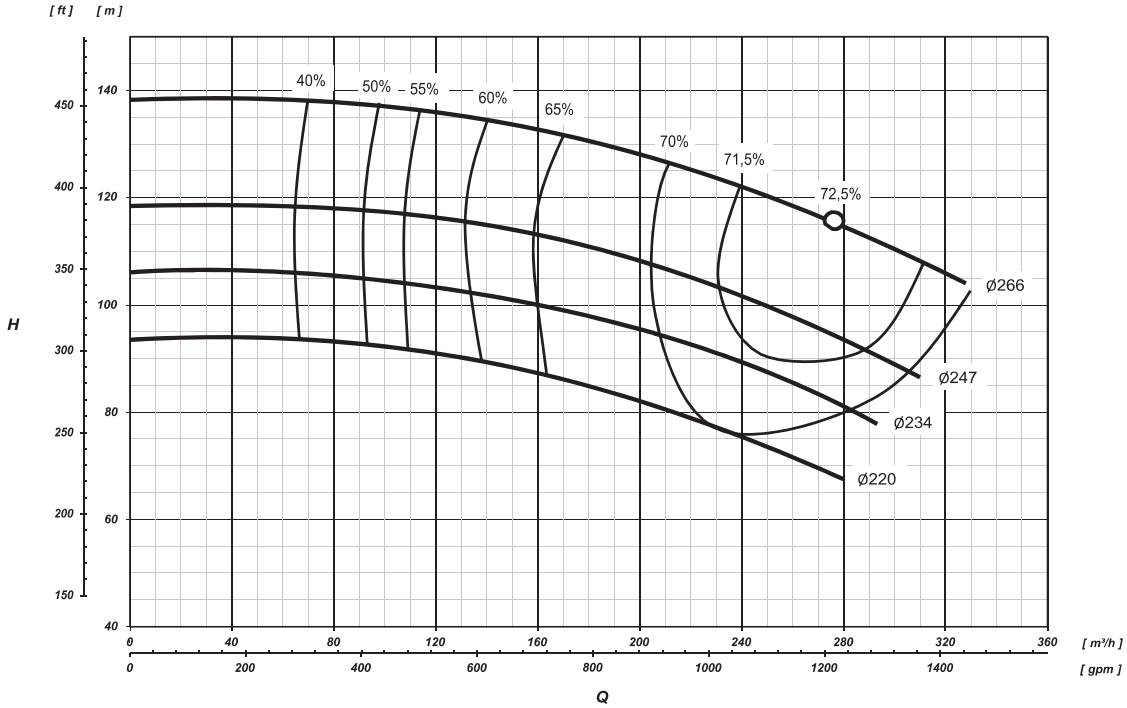
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		219/179 mm	23 mm	125 mm 5"	80 mm 3"	3500 rpm



TH 80-250

Single Stage Closed Impeller

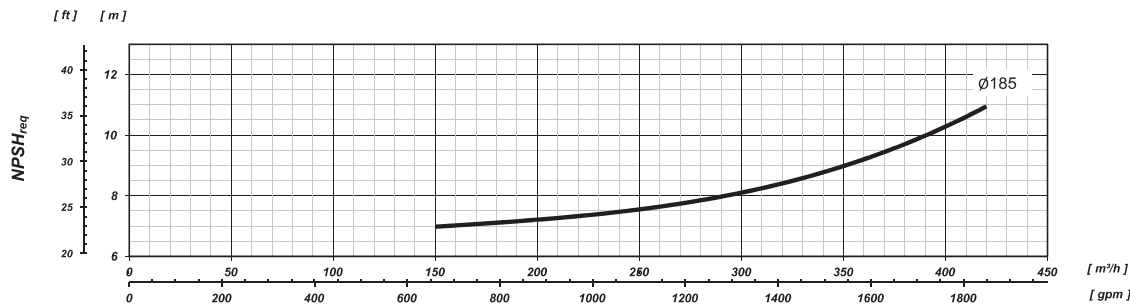
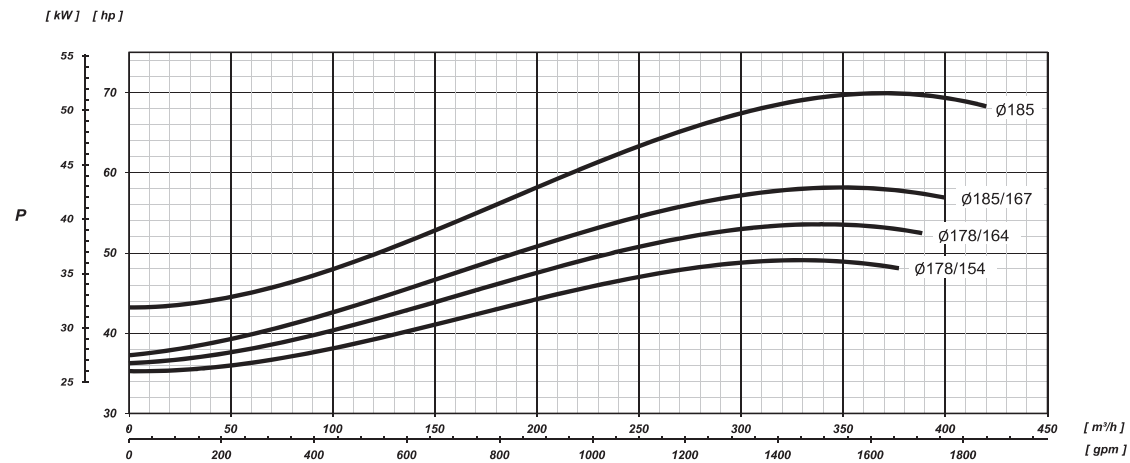
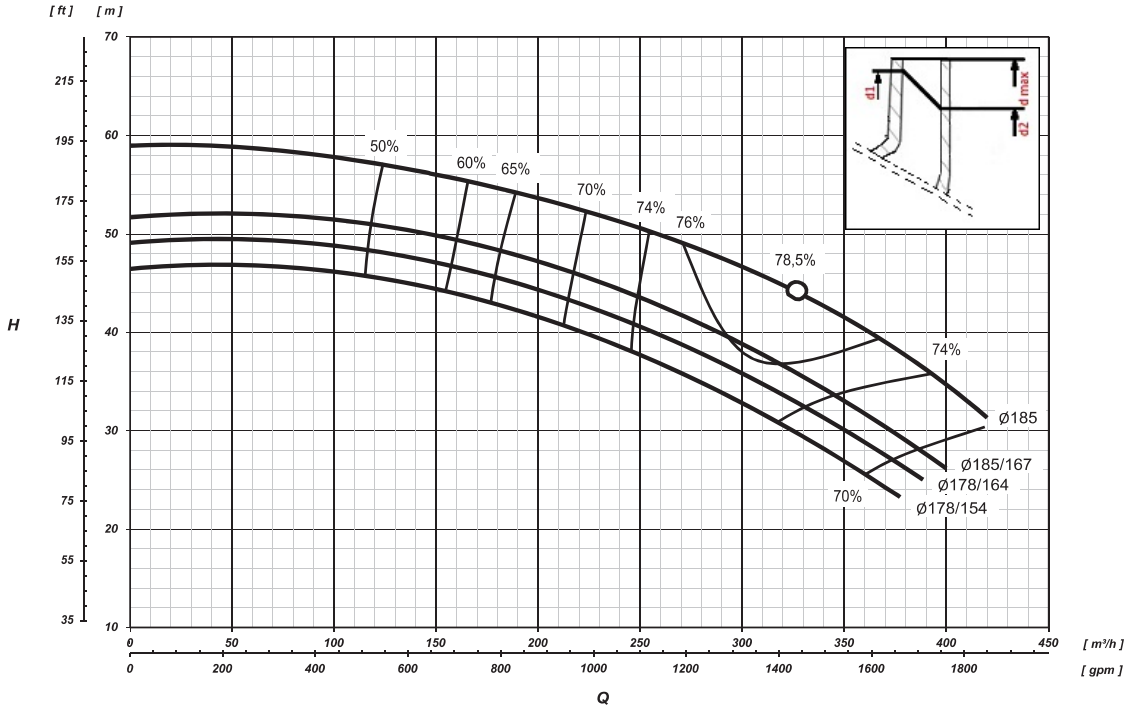
Number/Version September/15 Applies to clean water at 68°F	IMPELLER	Diameter 266/220 mm	Width 19 mm	Suction 125 mm 5"	Discharge 80 mm 3"	Speed (1/min) 3500 rpm
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TH 100-160

Single Stage Closed Impeller

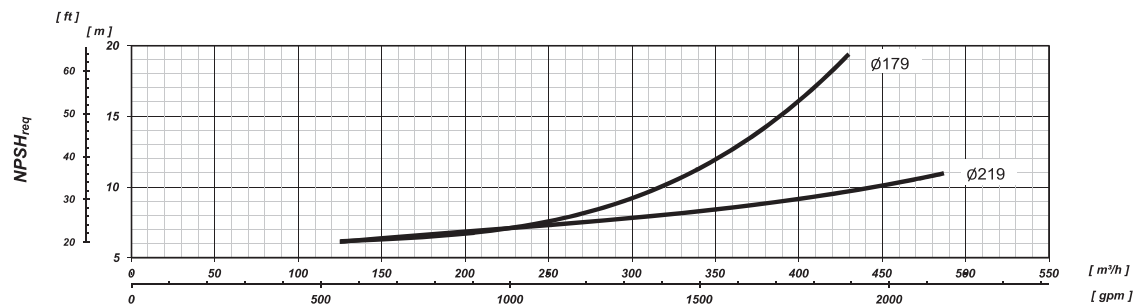
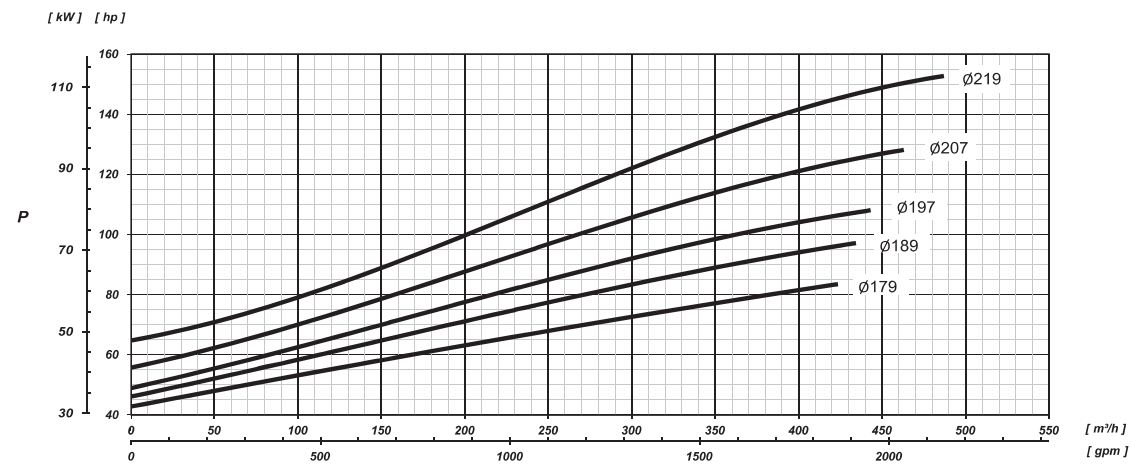
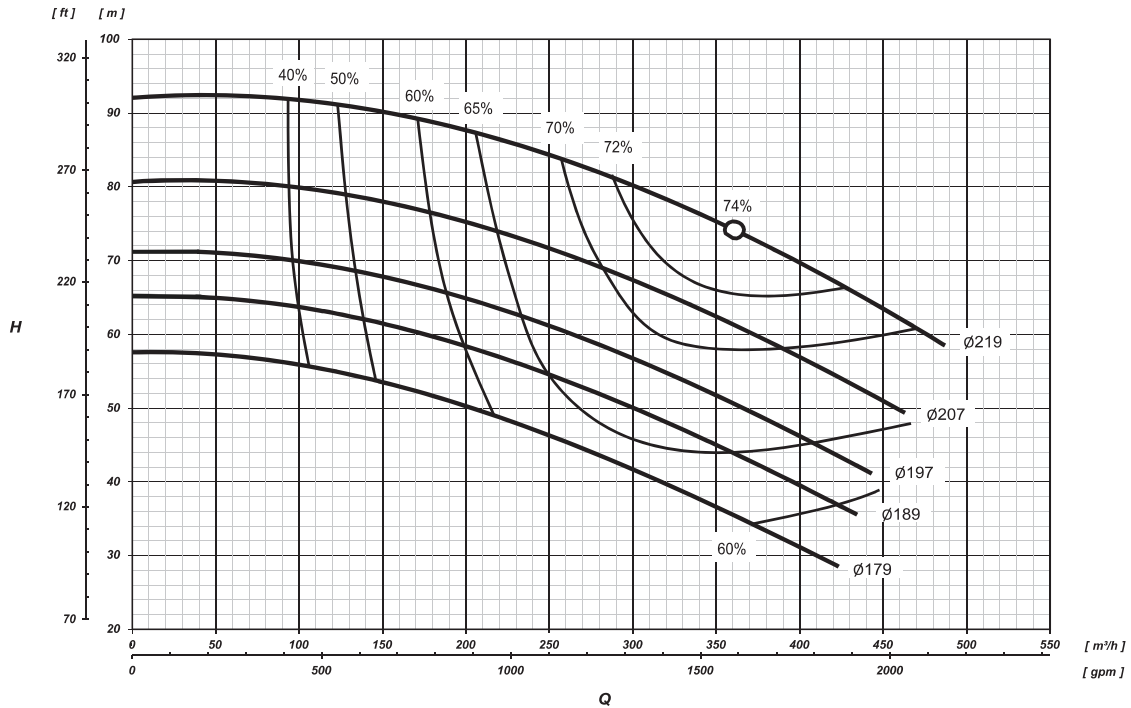
Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
September/15 Applies to clean water at 68°F		185/154 mm	36 mm	125 mm 5"	100 mm 4"	3500 rpm



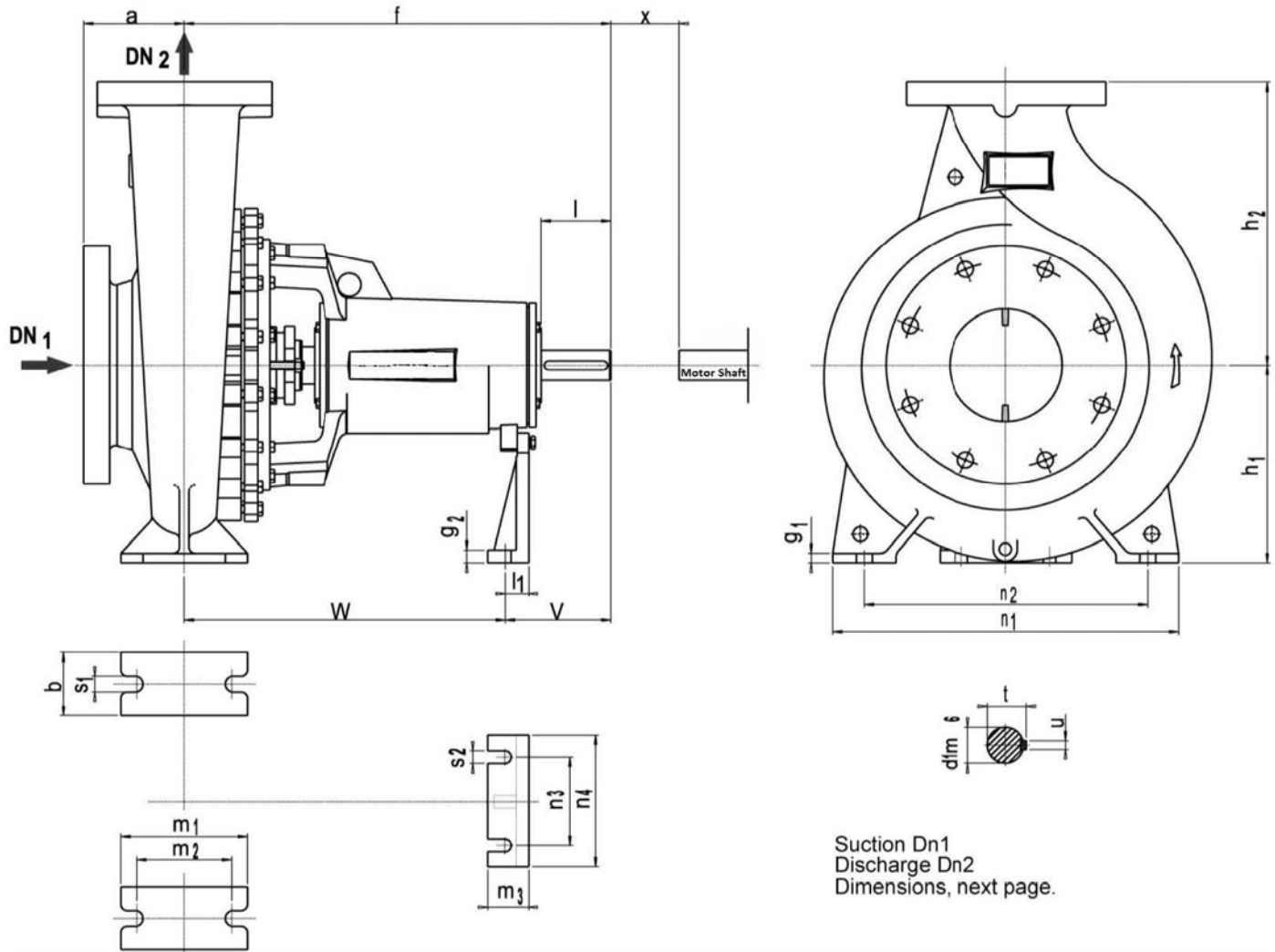
TH 100-200

Single Stage Closed Impeller

Number/Version	IMPELLER	Diameter	Width	Suction	Discharge	Speed (1/min)
May/16		219/179 mm	32 mm	125 mm 5"	100 mm 4"	3500 rpm
Applies to clean water at 68°F						



Dimensional Drawing



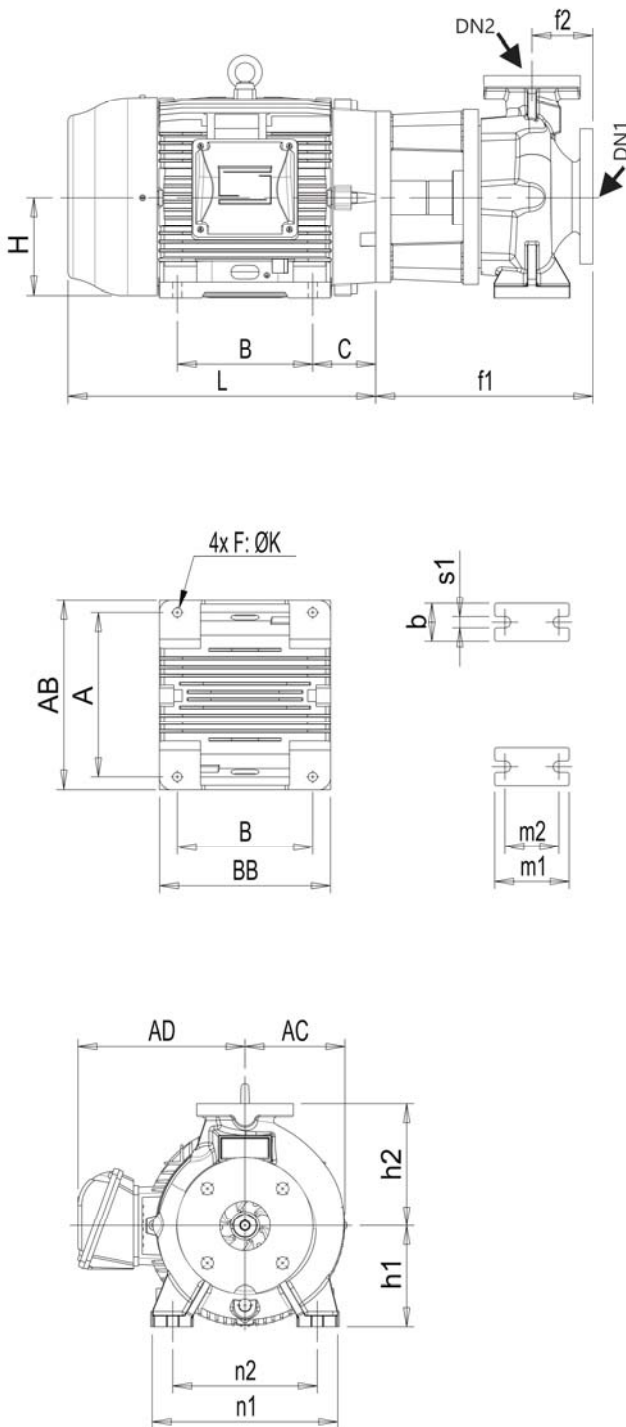
Suction Dn1
 Discharge Dn2
 Dimensions, next page.

Flange - ANSI B16.1 125 lb FF - All models except the following.
 Flange - ANSI B16.1 250 lb FF - Models - 32-250.1, 32-250, 40-250,
 50-250, 40-315, 50-315,
 65-250, & 80-250

Dimensions in mm

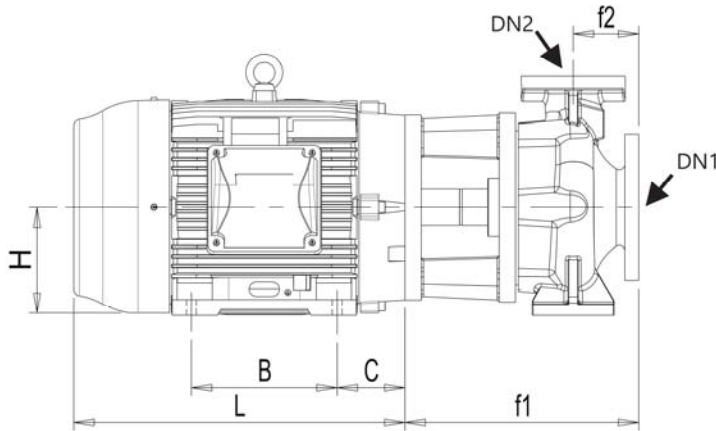
Size	Pump Dimension								Base Dimensions										Shaft				WT. LBS											
	DN ₁	DN ₂	a	f	h ₁	h ₂	b	g ₁	g ₂	l ₁	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	S ₁	S ₂	V	W	d _{1m6}		l	t	u	x							
25-150	32	25	73	397	112	160	50	15	6.4	41.4	100	70	66.4	190	140	110	152.4	14	14	100	297	24	50	26.9	8	100	73							
25-200	40		90	160	175	240								190	90						73													
32-125.1	50	32	80	385	112	140	50	15	6.4	41.4	100	70	66.4	190	140	110	152.4	14	14	100	285	24	50	26.9	8	100	73							
32-160.1					132	160								240	190												77							
32-200.1					160	180								240	190												93							
32-250.1			100	500	180	225	65	18	9.5	39.5	125	95	64.5	320	250						130	370	32	80	35.3	10	150							
32-125			112	140	190	140	77																											
32-160			80	385	132	160	50	15	6.4	41.4	100	70	66.4	240	190						100	285	24	50	26.9	8	73							
32-200			160	180	240	190	95																											
32-250			100	500	180	225	65	18	9.5	39.5	125	95	64.5	320	250						130	370	32	80	35.3	10	152							
40-125			65	40	80	385	112	140	50	15	6.4	41.4	100	70	66.4						210	160	110	152.4	14	14	100	285	24	50	26.9	8	100	86
40-160							132	160													240	190												95
40-200	160	180					265	212								110																		
40-250	100	180			225	320	250	165																										
40-315	125	500			200	250	65	18	9.5	39.5	125	95	64.5	345	280	130	370	32	80	35.3	10	163												
50-125	80	50	100	385	132	160	50	15	6.4	41.4	100	70	66.4	240	190	110	152.4	14	14	100	285	24	50	26.9	8	100	88							
50-160					160	180								265	212												97							
50-200					200	250								320	250												104							
50-250			125	500	180	225	65	18	9.5	39.5	125	95	64.5	320	250						130	370	32	80	35.3		10	163						
50-315			225	280	345	280	240																											
65-125	100	65	100	385	160	180	65	18	6.4	41.4	125	95	66.4	280	212	110	152.4	14	14	100	285	24	50	26.9	8	100	110							
65-160					200	250								320	250												115							
65-200					500	180								225	360												280	137						
65-250			200	250	360	280	198																											
65-315			530	225	280	80	19	36.5	160	120	61.5	400	315	18	160						42	110	45.1	12	276									
80-160	125	80	125	500	180	225	65	18	39.5	125	95	64.5	320	250	110	152.4	14	14	100	285	24	50	26.9	8	100	198								
80-200					250	280							345	280												198								
80-250					225	280							400	315												231								
80-315			530	250	315	400	293																											
80-400			280	355	435	355	355																											
100-160	150	125	100	500	19	20	80	19	9.5	39.5	160	120	64.5	360	280	110	152.4	18	18	100	285	32	80	35.3	10	140	231							
100-200					18	18								360	280												243							
100-250					20	20								400	315												293							
100-315			18	18	400	315	313																											
100-400			20	20	500	400	395																											
125-200	150	125	140	530	315	80	80	18	36.5	160	120	61.5	400	315	110	152.4	18	18	100	285	42	110	45.1	12	140	300								
125-250					18	18							400	315												346								
125-315					20	20							500	400												342								
125-400			20	20	550	450	430																											
150-200			160	280	375	100	20	200	150	500	400	22	22	500						400	180	*												
150-250	160	315	400	100	20	200	150	500	400	22	22	500	400	180	428																			
150-315	200	150	160	670	315	450	15	38	65	550	450	140	210	20	170	500	48	51.5	14	170	508	48	51.5	14	180	547								
150-400					400	450																				553	553	617						
150-500					180	375																				500	28	553	553	553	553	553	27	14

TABLE: Pump dimensions (mm)



Model	DN1	DN2	f1		f2	h2	h1	n1	n2	b	s1	m1	m2							
			Up To 182/4JP	213/5JP & Above																
			3ph to 5hp 1ph to 7.5hp	3ph to 75hp 1ph to 10hp																
TH 25-150	32	25	275	---	73	160	112	190	140	50	14	100	70							
TH 25-200	40		271	291	90	175	160	240	190											
TH 32-125.1	50	32	262	---	80	140	112	190	140											
TH 32-125				282																
TH 32-160.1			264	284		160	132	240	190											
TH 32-160																				
TH 32-200.1			262	285		180	160													
TH 32-200																				
TH 32-250.1			289	309		100	225	180	320					250	65					
TH 32-250																				
TH 40-125	65	40	262	282	80	140	112	210	160											
TH 40-160			264	286		160	132	240	190											
TH 40-200			283	305		100	180	160	265	212										
TH 40-250			284	308			225	180	320	250										
TH 40-315			306	331		125	250	200	345	280										
TH 50-125			80	50		295	306	100	160	132	240	190								
TH 50-160	286	180			160	265			212											
TH 50-200	284	200																		
TH 50-250	309	125			225	180			320	250										
TH 50-315	307				280	225			345	280										
TH 65-125	100	65			284	304			100	180	160	280	212							
TH 65-160			309	200																
TH 65-200			285	305	225	180	320	250												
TH 65-250			313	330	125	250	200	360		280										
TH 65-315			---	322		280	225	400		315										
TH 80-160			80	80		307	330	125		225	180	320	250							
TH 80-200	310	333			250	180	345		280											
TH 80-250	307	330			280	280	225		400	315										
TH 80-315	312	327				315	250		400	315										
TH 80-400	326	326			355	280	435		355											
TH 100-160	125	100			310	333	140		280	200	360	280								
TH 100-200																				
TH 100-250			---	340	315	250		400	315											
TH 100-315			---	337																
TH 100-400			---	338	355	280		500	400	100	22	200	150							
TH 125-200			150	125	---	355		140	315	250	400	315	80	18	160	120				
TH 125-250	---	340			355	280	500		400											
TH 125-315	---	---								400	315									
TH 125-400	---	343			400	315														
TH 150-200	200	150			---	370	160		375	280	550	450					100	22	200	150
TH 150-250					---	361			500	400										

NEMA electric motors



HP	kW	THREE-PHASE		SINGLE-PHASE	
		2 Poles	4 Poles	2 Poles	4 Poles
1.50	1.10	143/5JP	143/5JP	*	145/JP
2.00	1.50	143/5JP	143/5JP	145/JP	*
3.00	2.20	182/4JP	182/4JP	145/JP	*
5.00	3.70	182/4JP	182/4JP	184/JP	184/JP
7.50	5.50	213/5JP	213/5JP	184/JP	215/JP
10.00	7.50	213/5JP	213/5JP	215/JP	215/JP
15.00	11.00	254/6JP	254/6JP		
20.00	15.00	254/6JP	254/6JP		
25.00	18.50	284/6JP	284/6JP		
30.00	22.00	284/6JP	284/6JP		
40.00	30.00	324/6JP	324/6JP		
50.00	37.00	324/6JP	324/6JP		
60.00	45.00	364/5JP	364/5JP		

NEMA Electric Motors

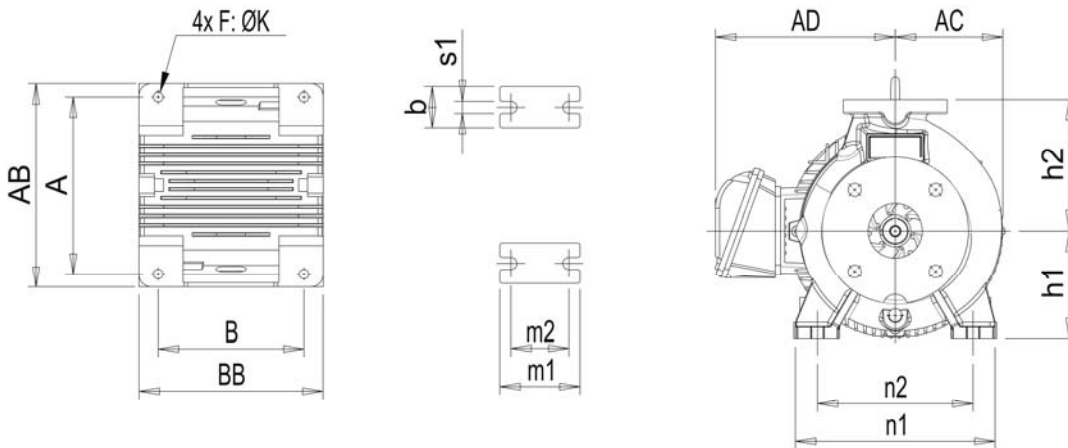


TABLE: Three-phase electric motors dimensions (in and mm)

Size	A		AB		AD		AC		B		BB		C		ØK		H		*L	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
143/5JP	5.50	139.70	6.46	164.01	6.26	159.00	3.52	89.50	5.00	127.00	6.14	156.01	2.25	57.15	0.34	8.74	3.50	88.90	11.42	289.99
182/4JP	7.50	190.50	8.66	219.99	7.57	192.15	4.37	111.00	5.50	139.70	6.97	177.01	2.75	69.85	0.41	10.31	4.50	114.30	13.16	334.16
213/5JP	8.50	215.90	9.76	248.01	8.58	218.01	5.33	135.50	7.00	177.80	8.86	224.99	3.50	88.90	0.41	10.31	5.25	133.35	16.13	409.80
254/6JP	10.00	254.00	12.13	308.00	10.48	266.27	6.48	164.50	10.00	254.00	11.73	297.99	4.25	107.95	0.53	13.49	6.25	158.75	20.98	532.79
284/6JP	11.00	279.40	13.78	350.01	11.07	281.25	7.09	180.00	11.00	279.40	13.07	332.00	4.75	120.65	0.53	13.49	7.00	177.80	23.45	595.50
324/6JP	12.50	317.50	15.16	384.99	12.58	319.41	7.91	201.00	12.00	304.80	14.57	370.00	5.25	133.35	0.66	16.69	8.00	203.20	25.89	657.63
364/5JP	14.02	356.01	17.17	435.99	16.02	406.81	8.96	227.51	12.24	311.00	16.22	411.99	8.93	226.75	0.66	16.76	9.00	228.60	28.58	725.96

NEMA Electric Motors

* 'L' can vary depending on motor manufacture

TABLE: Single-phase electric motors dimensions (in and mm)

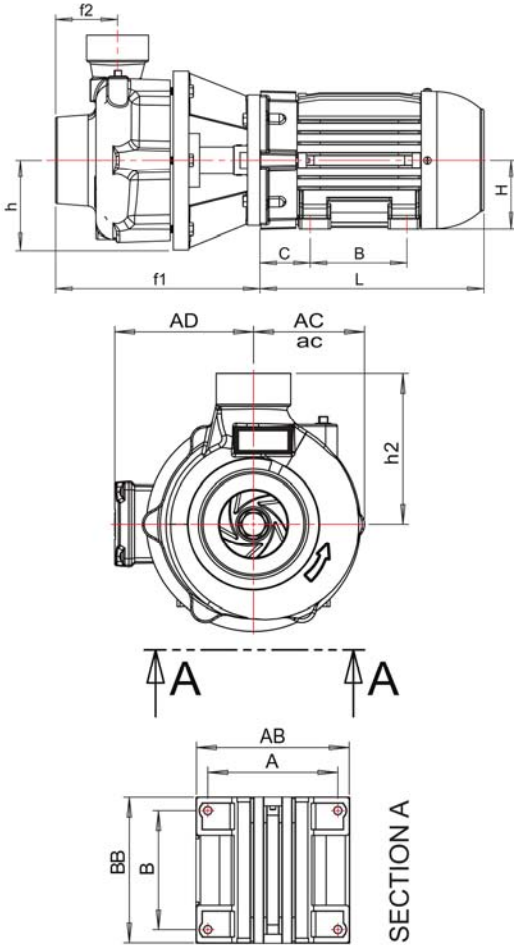
Size	A		AB		AD		AC		B		BB		C		ØK		H		*L	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
145JP	5.50	139.70	6.46	164.01	6.97	176.99	3.52	89.50	5.00	127.00	6.14	156.01	2.56	65.02	0.34	8.74	3.50	88.90	12.20	309.88
184JP	7.50	190.50	8.66	219.99	7.84	199.01	4.37	111.00	5.50	139.70	6.97	177.01	2.76	70.00	0.41	10.31	4.50	114.30	13.11	332.99
215JP	8.50	215.90	9.76	248.01	8.07	205.00	5.32	135.00	7.00	177.80	8.86	224.99	3.50	88.90	0.41	10.31	5.25	133.35	16.14	410.01

NEMA Electric Motors

* 'L' can vary depending on motor manufacture



TABLE: Pump dimensions (in) and (mm)



Model	Suc. BSP	Rec. BSP	f1				f2		h2		ac		h	
			up to 182/4		213/5 above		in	mm	in	mm	in	mm	in	mm
			in	mm	in	mm								
TH-25/150	1 1/4"	1"	10.83	275	-	-	2.87	73	6.30	160	4.53	115	4.53	115
TH-25/200	1 1/2"	1"	10.67	271	11.46	291	3.54	90	7.68	195	5.59	142	5.04	128
TH-32/125.1	2"	1 1/4"	10.31	262	-	-	3.15	80	6.30	160	4.65	118	4.53	115
TH-32/125	2"	1 1/4"			11.10	282								
TH-32/160.1	2"	1 1/4"	10.39	264	11.18	284	3.15	80	7.17	182	4.80	122	4.65	118
TH-32/160	2"	1 1/4"												
TH-32/200.1	2"	1 1/4"	10.35	263	11.14	283	3.15	80	7.95	202	5.59	142	5.24	133
TH-32/200	2"	1 1/4"												
TH-40/125	2 1/2"	1 1/2"	10.31	262	11.10	282	3.94	100	6.38	162	4.53	115	4.45	113
TH-40/160	2 1/2"	1 1/2"	10.39	264	11.18	284			7.09	180	5.04	128	4.76	121
TH-40/200	2 1/2"	1 1/2"	11.14	283	11.93	303	3.94	100	7.87	200	6.02	153	5.67	144
TH-50/125	3"	2"	11.26	286	12.05	306			7.09	180	4.88	124	4.53	115
TH-50/160	3"	2"					7.87	200	5.63	143	5.16	131		
TH-50/200	3"	2"	11.18	284	11.97	304	3.94	100	8.66	220	6.30	160	5.98	152
TH-65/125	4"	2 1/2"							7.87	200	5.71	145	5.08	129
TH-65/160	4"	2 1/2"	11.22	285	12.01	305	3.94	100	8.66	220	6.14	156	5.71	145
TH-65/200	4"	2 1/2"							9.65	245	6.93	176	6.46	164

NEMA Electric Motors

HP	kW	THREE-PHASE		SINGLE-PHASE	
		2 Poles	4 Poles	2 Poles	4 Poles
		Size	Size	Size	Size
1.50	1.10	143/5JP	143/5JP	*	145/JP
2.00	1.50	143/5JP	143/5JP	145/JP	*
3.00	2.20	182/4JP	182/4JP	145/JP	*
5.00	3.70	182/4JP	182/4JP	184/JP	184/JP
7.50	5.50	213/5JP	213/5JP	184/JP	215/JP
10.00	7.50	213/5JP	213/5JP	215/JP	215/JP
15.00	11.00	254/6JP	254/6JP		
20.00	15.00	254/6JP	254/6JP		
25.00	18.50	284/6JP	284/6JP		
30.00	22.00	284/6JP	284/6JP		
40.00	30.00	324/6JP	324/6JP		
50.00	37.00	324/6JP	324/6JP		
60.00	45.00	364/5JP	364/5JP		

NEMA Electric Motors

TABLE: Three-phase electric motors dimensions (in and mm)

Size	A		AB		AD		AC		B		BB		C		ØK		H		L	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
143/5JP	5.50	139.70	6.46	164.01	6.26	159.00	3.52	89.50	5.00	127.00	6.14	156.01	2.25	57.15	0.34	8.74	3.50	88.90	11.42	289.99
182/4JP	7.50	190.50	8.66	219.99	7.57	192.15	4.37	111.00	5.50	139.70	6.97	177.01	2.75	69.85	0.41	10.31	4.50	114.30	13.16	334.16
213/5JP	8.50	215.90	9.76	248.01	8.58	218.01	5.33	135.50	7.00	177.80	8.86	224.99	3.50	88.90	0.41	10.31	5.25	133.35	16.13	409.80
254/6JP	10.00	254.00	12.13	308.00	10.48	266.27	6.48	164.50	10.00	254.00	11.73	297.99	4.25	107.95	0.53	13.49	6.25	158.75	20.98	532.79
284/6JP	11.00	279.40	13.78	350.01	11.07	281.25	7.09	180.00	11.00	279.40	13.07	332.00	4.75	120.65	0.53	13.49	7.00	177.80	23.45	595.50
324/6JP	12.50	317.50	15.16	384.99	12.58	319.41	7.91	201.00	12.00	304.80	14.57	370.00	5.25	133.35	0.66	16.69	8.00	203.20	25.89	657.63
364/5JP	14.02	356.01	17.17	435.99	16.02	406.81	8.96	227.51	12.24	311.00	16.22	411.99	8.93	226.75	0.66	16.76	9.00	228.60	28.58	725.96

NEMA Electric Motors

* 'L' can vary depending on motor manufacture

TABLE: Single-phase electric motors dimensions (in and mm)

Size	A		AB		AD		AC		B		BB		C		ØK		H		L	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
145JP	5.50	139.70	6.46	164.01	6.97	176.99	3.52	89.50	5.00	127.00	6.14	156.01	2.56	65.02	0.34	8.74	3.50	88.90	12.20	309.88
184JP	7.50	190.50	8.66	219.99	7.84	199.01	4.37	111.00	5.50	139.70	6.97	177.01	2.76	70.00	0.41	10.31	4.50	114.30	13.11	332.99
215JP	8.50	215.90	9.76	248.01	8.07	205.00	5.32	135.00	7.00	177.80	8.86	224.99	3.50	88.90	0.41	10.31	5.25	133.35	16.14	410.01

NEMA Electric Motors

* 'L' can vary depending on motor manufacture



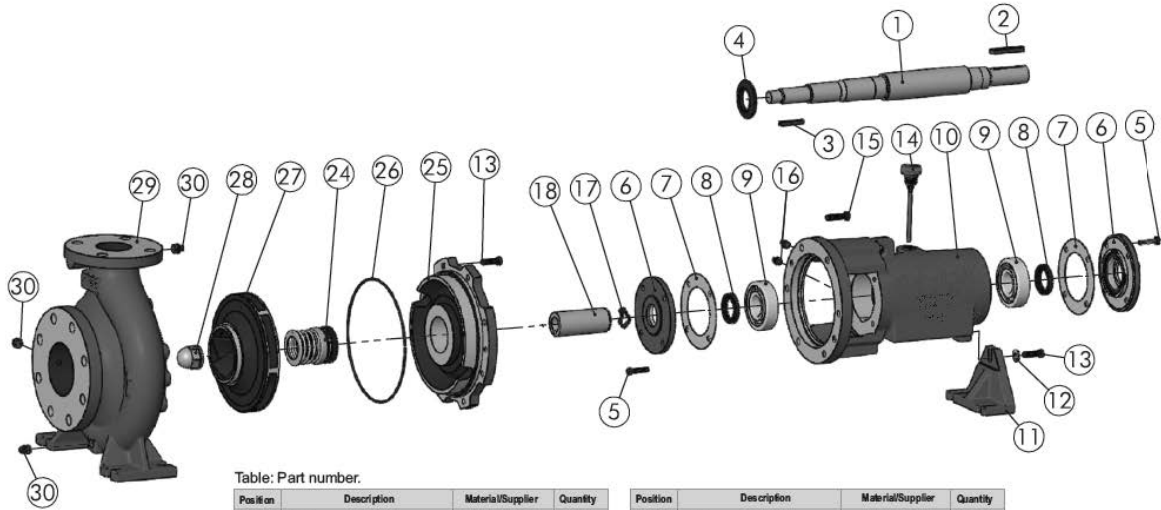


Table: Part number.

Position	Description	Material/Supplier	Quantity
01	Shaft	SAE 1045	01
02	Key	SAE 1020	01
03	Key	SAE 1020	01
04	Water Baffle	Nitrile Rubber	01
05	Screw	SAE 1020	02
06	Bearing cover	ASTMA48 CL250	02
07	Gasket	Velumoid	02
08	Retaining ring	Sabó	02
09	Ball Bearing	NSK/SKF/FAG	02
10	Bearing house	ASTM A48 CL250	01
11	Support foot	ASTMA48 CL200	01
12	Flat washer	SAE 1020	01
13	Screw	SAE 1020	02
14	Oil level indicator	PVC	01
15	Screw	SAE 1020	01

Position	Description	Material/Supplier	Quantity
16	Plug	SAE 1020	2
17	Past Ultra-black	Silicone/LOCTITE	1
18	Shaft sleeve	AISI-304	1
24	Mechanical seal	Ceramic/Graphite/Buna (N)	1
25	Case Cover	ASTM A48 CL250	1
26	O'ring	Buna (N)	1
27	Impeller	ASTM A48 CL250	1
28	Shaft nut	SAE 1045 / AISI-316	1
29	Pump casing	ASTM A48 CL250	1
30	Plug	SAE 1020	3

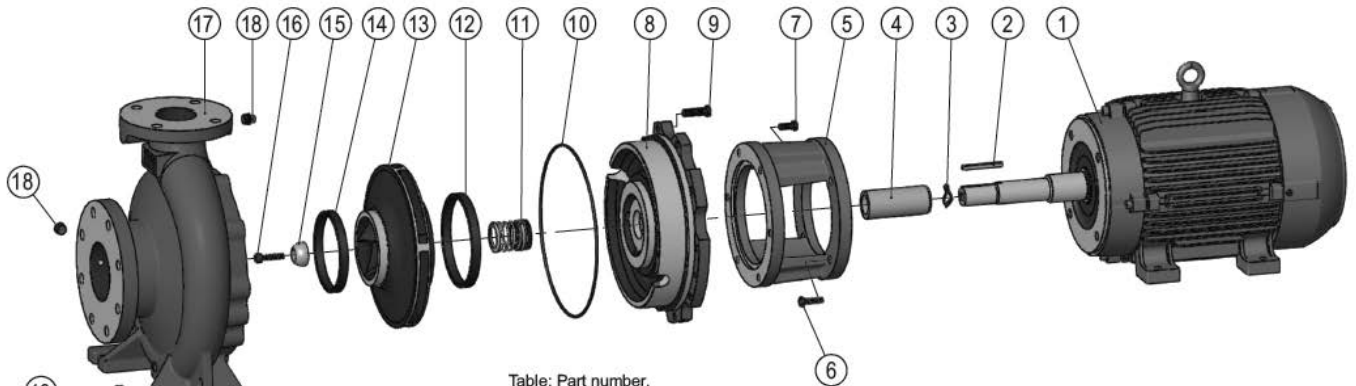


Table: Part number.

Position	Description	Material/Supplier	Quantity
1	Electric Motor	WEG	1
2	Key	SAE 1045	1
3	Past Ultra-Black	Silicone / LOCTITE	-
4	Shaft sleeve	AISI 304	1
5	Bracket	ASTM A48 CL250	1
6	Screw	SAE 1020	4
7	Screw	SAE 1020	-
8	Case Cover	ASTM A48 CL250	1
9	Screw	SAE 1020	-
10	O'ring	Buna (N)	1
11	Mechanical Seal	Ceramic/Graphite/Buna (N)	1
12	Wear ring - rear (impeller)	ASTM A536 65-45-12	1
13	Impeller	ASTM A48 CL250	1
14	Wear ring - front (case)	ASTM A536 65-45-12	1
15	Impeller washer	AISI 420 / SAE 1045	1
16	Screw	SAE 1020	1
17	Pump casing Flanged	ASTM A48 CL250	1
18	Plug	SAE 1020	3
19	*Pump casing Threaded (optional)	ASTM A48 CL250	1

* Only some models, up to size TH 65/200