

# Dry-installed Volute Casing Pump

## KWP

50 Hz  
K Impeller

## Characteristic Curves Booklet



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Characteristic Curves Booklet KWP

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## Centrifugal Pumps with Shaft Seal

### Dry-installed Volute Casing Pumps

## KWP



### General

**Acceptance grade:** characteristic curves to ISO 9906 Grade 2B

#### NPSH values

The NPSH values indicated in the characteristic curves correspond to a head drop of 3 %. The values indicated are minimum values. They apply to degassed water.

As a safety margin, increase the values indicated in the curves by at least 0.5 m for the actual application, and by at least 3 m in the case of impellers made of CeramikPolySiC (as identified by the digits 8 or 9 at the end of the size designation) for sizes DN 400 and above.

#### NPSH values in part-load conditions

NPSH values for flow rates below  $Q = 0.3 \times Q_{opt}$  can only be measured with intense technical efforts. Evidence of NPSH values in the part-load range cannot be provided.

#### Density of the fluid handled

The indicated heads and performance data apply to pumped fluids with a density  $\rho = 1.0 \text{ kg/dm}^3$  and a kinematic viscosity of up to  $20 \text{ mm}^2/\text{s}$  max. If the density  $\neq 1.0$ , the performance data must be multiplied by  $\rho$ . For viscosities  $>20 \text{ mm}^2/\text{s}$  the corresponding data for cold water has to be calculated and the impact on the pump's performance has to be determined.

#### Impeller trimming

Impellers of all diameters can be trimmed right down to the minimum diameter indicated.

### Operating limits

Observe the operating limits resulting from the specific materials or designs used.

Unless specified otherwise in the characteristic curves, the following applies:

- Short-time operation
  - For sizes  $< \text{DN } 600$ :  $Q_{min}^{1)} = 0.1 \times Q_{opt}^{2)}$
  - For sizes  $\geq \text{DN } 600$ :  $Q_{min}^{1)} = 0.4 \times Q_{opt}^{2)}$
- Continuous operation
  - For sizes  $\leq \text{DN } 125$ :  $Q_{min}^{1)} = 0.2 \times Q_{opt}^{2)}$
  - For sizes  $\geq \text{DN } 150$ :  $Q_{min}^{1)} = 0.3 \times Q_{opt}^{2)}$
  - For 2-pole operation:  $Q_{max} = 1.1 \times Q_{opt}^{2)}$
  - For 4-pole operation:  $Q_{max} = 1.25 \times Q_{opt}^{2)}$

The  $Q_{max}$  data plotted vertically in some of the characteristic curve diagrams describe  $Q_{max}$  as a function of  $v_s = 7.5 \text{ m/s}^3$ , independently of rotational speed.

### Motor rating

The motor ratings given are valid for the following conditions:

- Ambient temperatures of up to  $40 \text{ }^\circ\text{C}$
- Installation altitude of up to 1000 m above MSL
- Voltages of 230/400 V to 400/690 V

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1) Minimum permissible flow rate  
2) Flow rate at best efficiency point  
3) Velocity in the suction-side pipe

**Technical data of hydraulic system**

Technical data of hydraulic system

Sizes	Bearing bracket	Free passage	Number of blades	Impeller diameter	
				Max.	Min.
		[mm]		[mm]	[mm]
065-040-250	P03ax	15	3	260	170
065-050-200	P03ax	34	2	209	120
080-065-200	P03ax	46	2	209	145
080-040-315	P04ax	15	2	320	230
080-050-400	P04ax	15	2	408	330
080-065-315	P04ax	42	2	320	230
080-065-313	P04ax	15	5	320	230
080-065-400	P04ax	34	2	408	330
100-080-250	P03ax	50	2	260	170
100-080-315	P04ax	44	2	320	260
100-080-400	P05ax	46	2	404	280
100-080-403	P05ax	16	5	404	280
125-080-500	P06x	20	3	504	380
125-100-250	P04ax	60	2	260	180
125-100-253	P04ax	28	6	260	180
125-100-315	P04ax	54	2	320	230
125-100-400	P05ax	50	2	404	280
125-100-403	P05ax	20	6	404	280
150-125-500	P06x	50	3	504	350
150-125-503	P06x	21	6	509	350
150-150-315	P05ax	88	2	320	260
150-150-400	P05ax	64	3	404	320
150-150-403	P05ax	41	5	404	320
200-200-320	P05ax	75	3	320	257
200-200-400	P06x	80	3	403	320
200-200-403	P06x	40	6	404	320
200-200-500	P08xs, P10ax, P12sx	75	3	504	400
200-200-501	P08xs, P10ax, P12sx	75	3	504	400
200-200-503	P08xs, P10ax, P12sx	40	5	504	400
250-250-315	P06x	70	3	324	285
250-250-400	P08xs, P10ax	80	3	409	338
250-250-403	P08xs, P10ax	44	5	409	340
250-250-500	P08xs, P10ax, P12sx	85	3	504	400
250-250-503	P08xs, P10ax, P12sx	48	6	504	400
250-250-505	P08xs, P10ax, P12sx	70	4	504	436
250-250-630	P08xs, P10ax, P12sx	86	4	630	500
250-250-634	P08xs, P10ax, P12sx	41	5	630	480
300-300-400	P08xs, P10ax	85	3	409	320
300-300-500	P08xs, P10ax, P12sx	89	3	504	400
300-300-503	P08xs, P10ax, P12sx	50	5	504	420
350-350-400	P08xs, P10ax	110	3	408	330
350-350-500	P08xs, P10ax, P12sx	110	3	508	390
350-350-503	P08xs, P10ax, P12sx	65	5	508	472
350-350-504	P08xs, P10ax, P12sx	55	5	507	460
350-350-630	P08xs, P10ax, P12sx	135	3	630	500
350-350-633	P08xs, P10ax, P12sx	75	5	630	500
400-400-500	P08xs, P10ax, P12sx	123	3	508	430
400-400-503	P08xs, P10ax, P12sx	90	4	508	445
400-400-533	P10ax, P12sx	90	5	538	496
400-400-583	P10ax, P12sx	90	5	600	550
500-400-710	P10ax, P12sx, P16ax	160	3	730	630
500-400-713	P10ax, P12sx, P16ax	65	5	730	630
500-500-544	P10ax, P12sx	75	4	572	495
500-500-630	P10ax, P12sx, P16ax	142	3	636	528
500-500-633	P10ax, P12sx, P16ax	90	5	636	534
500-500-634	P10ax, P12sx, P16ax	85	5	636	554

Sizes	Bearing bracket	Free passage	Number of blades	Impeller diameter	
				Max.	Min.
		[mm]		[mm]	[mm]
500-500-635	P10ax, P12sx, P16ax	75	5	636	565
500-500-637	P10ax, P12sx, P16ax	85	5	636	540
600-600-663	P12sx	80	5	700	620
600-600-669	P12sx	80	5	700	630
600-600-710	P12sx, P16ax	165	3	716	650
600-600-753	P16ax	112	5	750	675
600-600-803	P16ax	100	5	780	718
600-600-813	P16ax	95	5	830	710
600-600-824	P16ax	95	5	794	720
600-600-825	P16ax	95	5	800	709
600-600-873	P16ax	97	5	880	800
600-600-923	P20sx	113	5	930	840
700-700-923	P20sx	115	5	870	765
700-700-929	P20sx	100	6	870	780
800-700-953	P20sx	110	5	940	834
800-700-959	P20sx	105	5	940	820
800-800-934	P20sx	115	5	950	845
800-800-939	P20sx	86	6	950	854
800-900-883	P20sx	155	4	855	750
900-900-1133	P20sx	140	5	1120	1018
900-900-1134	P20sx	150	5	1120	1008
900-900-1138	P20sx	120	6	1122	1006
900-900-1139	P20sx	110	6	1120	980

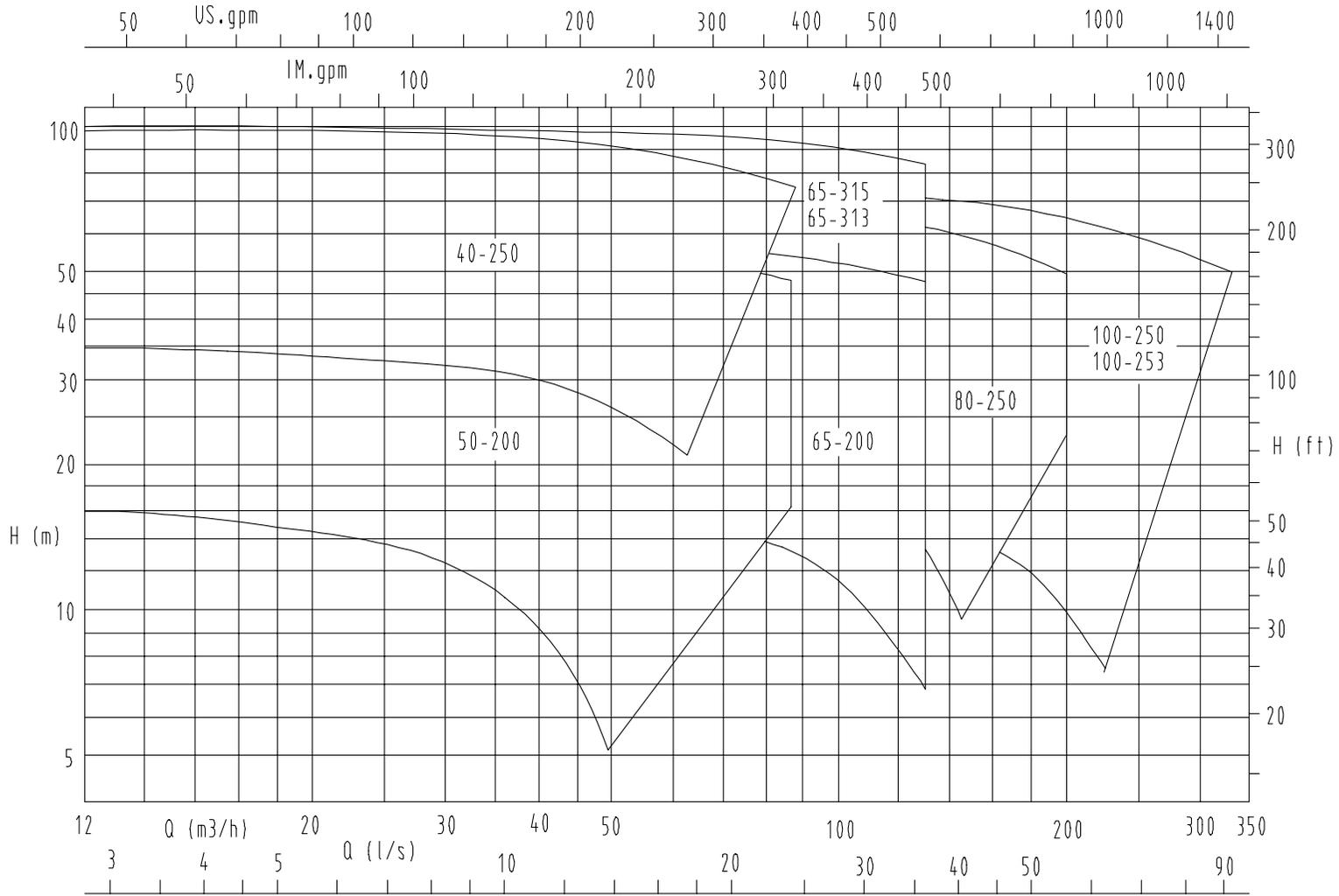
**Overview of sizes**

Overview of KWP K sizes

Size	Speed [rpm]					
	2900	1450	960	725	580	480
065-040-250	(⇒ Page 14)	(⇒ Page 22)	(⇒ Page 61)	-	-	-
080-040-315	-	(⇒ Page 24)	(⇒ Page 63)	-	-	-
065-050-200	(⇒ Page 15)	(⇒ Page 23)	(⇒ Page 62)	-	-	-
080-050-400	-	(⇒ Page 25)	(⇒ Page 64)	-	-	-
080-065-200	(⇒ Page 16)	(⇒ Page 26)	(⇒ Page 65)	-	-	-
080-065-315	(⇒ Page 17)	(⇒ Page 28)	(⇒ Page 67)	-	-	-
080-065-313	(⇒ Page 18)	(⇒ Page 27)	(⇒ Page 66)	-	-	-
080-065-400	-	(⇒ Page 29)	(⇒ Page 68)	-	-	-
100-080-250	(⇒ Page 19)	(⇒ Page 30)	(⇒ Page 69)	-	-	-
100-080-315	-	(⇒ Page 31)	(⇒ Page 70)	-	-	-
100-080-400	-	(⇒ Page 32)	(⇒ Page 71)	-	-	-
100-080-403	-	(⇒ Page 33)	(⇒ Page 72)	-	-	-
125-080-500	-	(⇒ Page 34)	(⇒ Page 73)	(⇒ Page 119)	-	-
125-100-250	(⇒ Page 20)	(⇒ Page 35)	(⇒ Page 74)	-	-	-
125-100-253	(⇒ Page 21)	(⇒ Page 36)	(⇒ Page 75)	-	-	-
125-100-315	-	(⇒ Page 37)	(⇒ Page 76)	-	-	-
125-100-400	-	(⇒ Page 38)	(⇒ Page 77)	-	-	-
125-100-403	-	(⇒ Page 39)	(⇒ Page 78)	-	-	-
150-125-500	-	(⇒ Page 40)	(⇒ Page 79)	(⇒ Page 120)	-	-
150-125-503	-	(⇒ Page 41)	(⇒ Page 80)	(⇒ Page 121)	-	-
150-150-315	-	(⇒ Page 42)	(⇒ Page 81)	(⇒ Page 122)	-	-
150-150-400	-	(⇒ Page 43)	(⇒ Page 82)	(⇒ Page 123)	-	-
150-150-403	-	(⇒ Page 44)	(⇒ Page 83)	(⇒ Page 124)	-	-
200-200-320	-	(⇒ Page 45)	(⇒ Page 84)	(⇒ Page 125)	-	-
200-200-400	-	(⇒ Page 46)	(⇒ Page 85)	(⇒ Page 126)	-	-
200-200-403	-	(⇒ Page 47)	(⇒ Page 86)	(⇒ Page 127)	-	-
200-200-500	-	(⇒ Page 48)	-	-	-	-
200-200-501	-	-	(⇒ Page 87)	(⇒ Page 128)	-	-
200-200-503	-	(⇒ Page 49)	(⇒ Page 88)	(⇒ Page 129)	-	-
250-250-315	-	(⇒ Page 50)	(⇒ Page 89)	(⇒ Page 130)	-	-
250-250-400	-	(⇒ Page 51)	(⇒ Page 90)	(⇒ Page 131)	-	-
250-250-403	-	(⇒ Page 52)	(⇒ Page 91)	(⇒ Page 132)	-	-
250-250-500	-	(⇒ Page 53)	(⇒ Page 92)	(⇒ Page 133)	-	-
250-250-503	-	(⇒ Page 54)	(⇒ Page 93)	(⇒ Page 134)	-	-
250-250-505	-	(⇒ Page 55)	(⇒ Page 94)	(⇒ Page 135)	-	-
250-250-630	-	-	(⇒ Page 95)	(⇒ Page 136)	(⇒ Page 168)	-
250-250-634	-	-	(⇒ Page 96)	(⇒ Page 137)	(⇒ Page 169)	-
300-300-400	-	(⇒ Page 56)	(⇒ Page 97)	(⇒ Page 138)	-	-
300-300-401	-	(⇒ Page 57)	(⇒ Page 98)	(⇒ Page 139)	-	-
300-300-500	-	(⇒ Page 58)	(⇒ Page 99)	(⇒ Page 140)	-	-

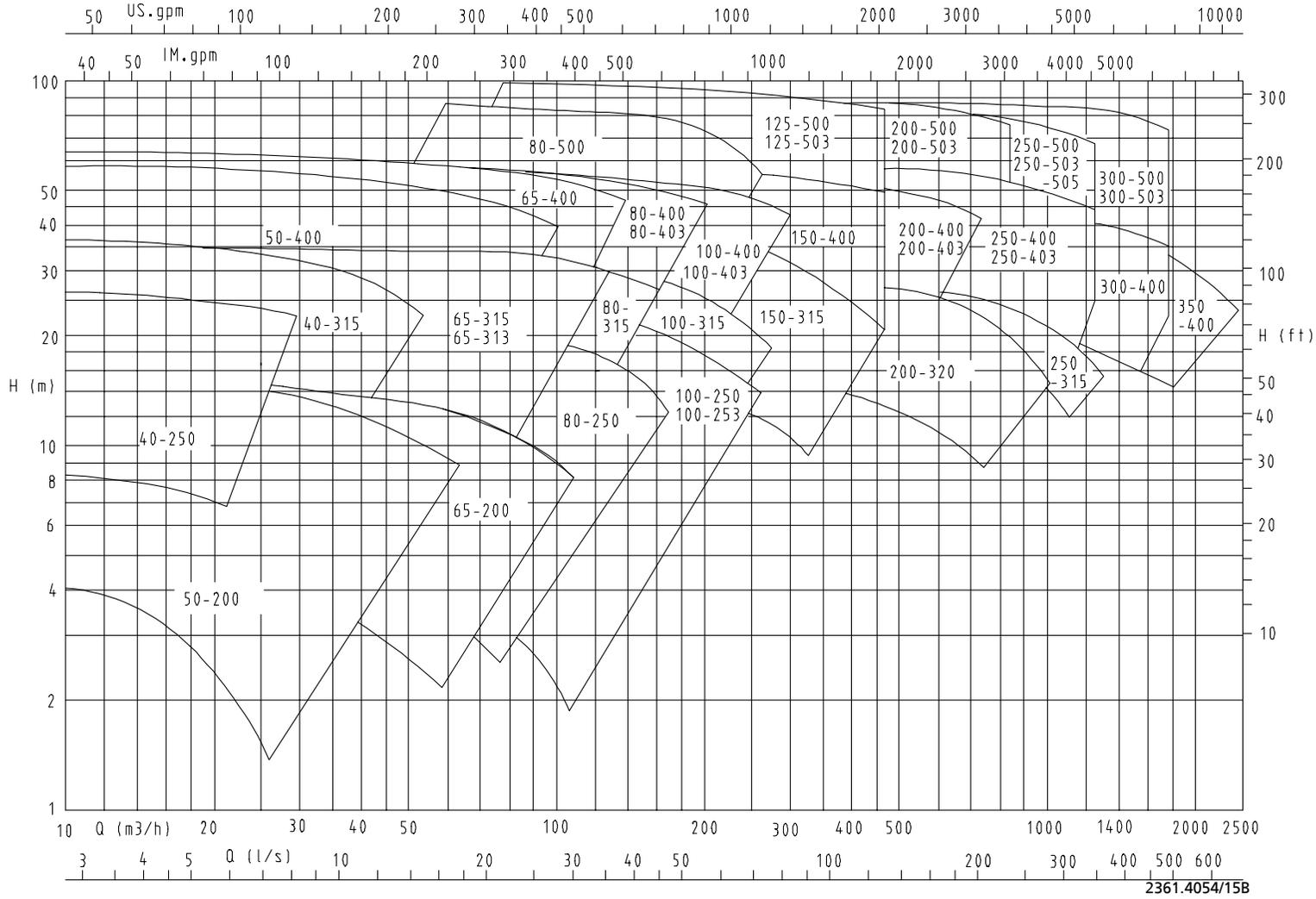
Size	Speed [rpm]					
	2900	1450	960	725	580	480
300-300-503	-	(⇒ Page 59)	(⇒ Page 100)	(⇒ Page 141)	-	-
350-350-400	-	(⇒ Page 60)	(⇒ Page 101)	(⇒ Page 142)	-	-
350-350-500	-	-	(⇒ Page 102)	(⇒ Page 143)	-	-
350-350-503	-	-	(⇒ Page 103)	(⇒ Page 144)	-	-
350-350-504	-	-	(⇒ Page 104)	(⇒ Page 145)	-	-
350-350-630	-	-	(⇒ Page 105)	(⇒ Page 146)	(⇒ Page 170)	-
350-350-633	-	-	(⇒ Page 106)	(⇒ Page 147)	(⇒ Page 171)	-
400-400-500	-	-	(⇒ Page 107)	(⇒ Page 148)	-	-
400-400-503	-	-	(⇒ Page 108)	(⇒ Page 149)	-	-
400-400-533	-	-	(⇒ Page 109)	(⇒ Page 150)	(⇒ Page 172)	-
400-400-583	-	-	(⇒ Page 110)	(⇒ Page 151)	(⇒ Page 173)	-
500-400-710	-	-	(⇒ Page 111)	(⇒ Page 152)	(⇒ Page 174)	(⇒ Page 200)
500-400-713	-	-	(⇒ Page 112)	(⇒ Page 153)	(⇒ Page 175)	(⇒ Page 201)
500-500-544	-	-	(⇒ Page 113)	(⇒ Page 154)	(⇒ Page 176)	-
500-500-630	-	-	(⇒ Page 114)	(⇒ Page 155)	(⇒ Page 177)	-
500-500-633	-	-	(⇒ Page 115)	(⇒ Page 156)	(⇒ Page 178)	-
500-500-634	-	-	(⇒ Page 116)	(⇒ Page 157)	(⇒ Page 179)	-
500-500-635	-	-	(⇒ Page 117)	(⇒ Page 158)	(⇒ Page 180)	-
500-500-637	-	-	(⇒ Page 118)	(⇒ Page 159)	(⇒ Page 181)	-
600-600-663	-	-	-	(⇒ Page 160)	(⇒ Page 182)	-
600-600-669	-	-	-	(⇒ Page 161)	(⇒ Page 183)	-
600-600-710	-	-	-	(⇒ Page 162)	(⇒ Page 184)	(⇒ Page 202)
600-600-753	-	-	-	(⇒ Page 163)	(⇒ Page 185)	(⇒ Page 203)
600-600-803	-	-	-	(⇒ Page 164)	(⇒ Page 186)	(⇒ Page 204)
600-600-813	-	-	-	(⇒ Page 165)	(⇒ Page 187)	(⇒ Page 205)
600-600-824	-	-	-	(⇒ Page 166)	(⇒ Page 188)	(⇒ Page 206)
600-600-825	-	-	-	(⇒ Page 167)	(⇒ Page 189)	(⇒ Page 207)
600-600-873	-	-	-	-	(⇒ Page 190)	(⇒ Page 208)
600-600-923	-	-	-	-	(⇒ Page 191)	(⇒ Page 209)
700-700-923	-	-	-	-	(⇒ Page 192)	(⇒ Page 210)
700-700-929	-	-	-	-	(⇒ Page 193)	(⇒ Page 211)
800-700-953	-	-	-	-	(⇒ Page 194)	(⇒ Page 212)
800-700-959	-	-	-	-	(⇒ Page 195)	(⇒ Page 213)
800-800-934	-	-	-	-	(⇒ Page 196)	(⇒ Page 214)
800-800-935	-	-	-	-	(⇒ Page 197)	(⇒ Page 215)
800-800-939	-	-	-	-	(⇒ Page 198)	(⇒ Page 216)
800-900-883	-	-	-	-	(⇒ Page 199)	(⇒ Page 217)
900-900-1133	-	-	-	-	-	(⇒ Page 218)
900-900-1134	-	-	-	-	-	(⇒ Page 219)
900-900-1138	-	-	-	-	-	(⇒ Page 220)
900-900-1139	-	-	-	-	-	(⇒ Page 221)

**Selection charts**  
**KWP K, n = 2900 rpm**



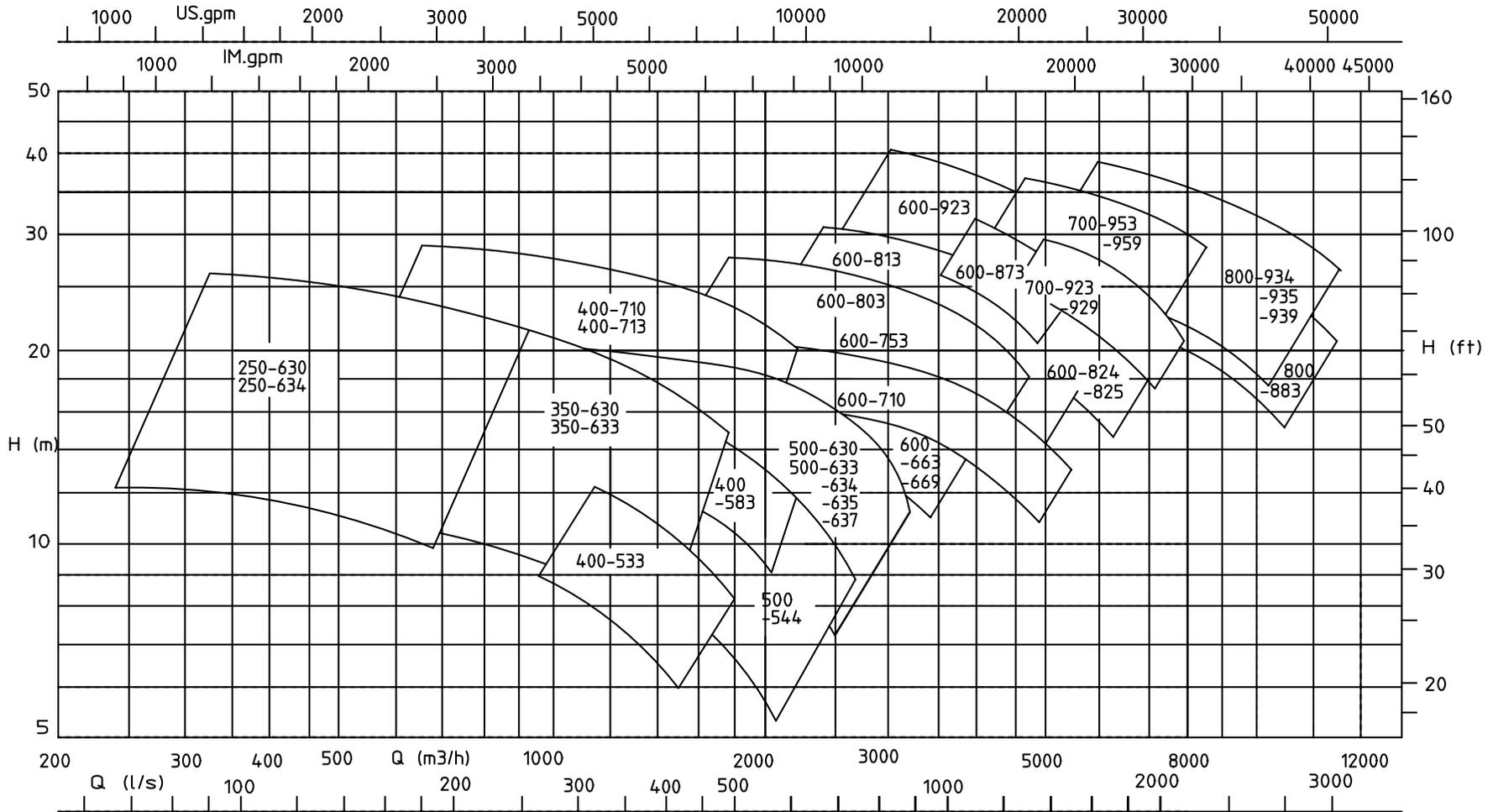
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KWP K, n = 1450 rpm





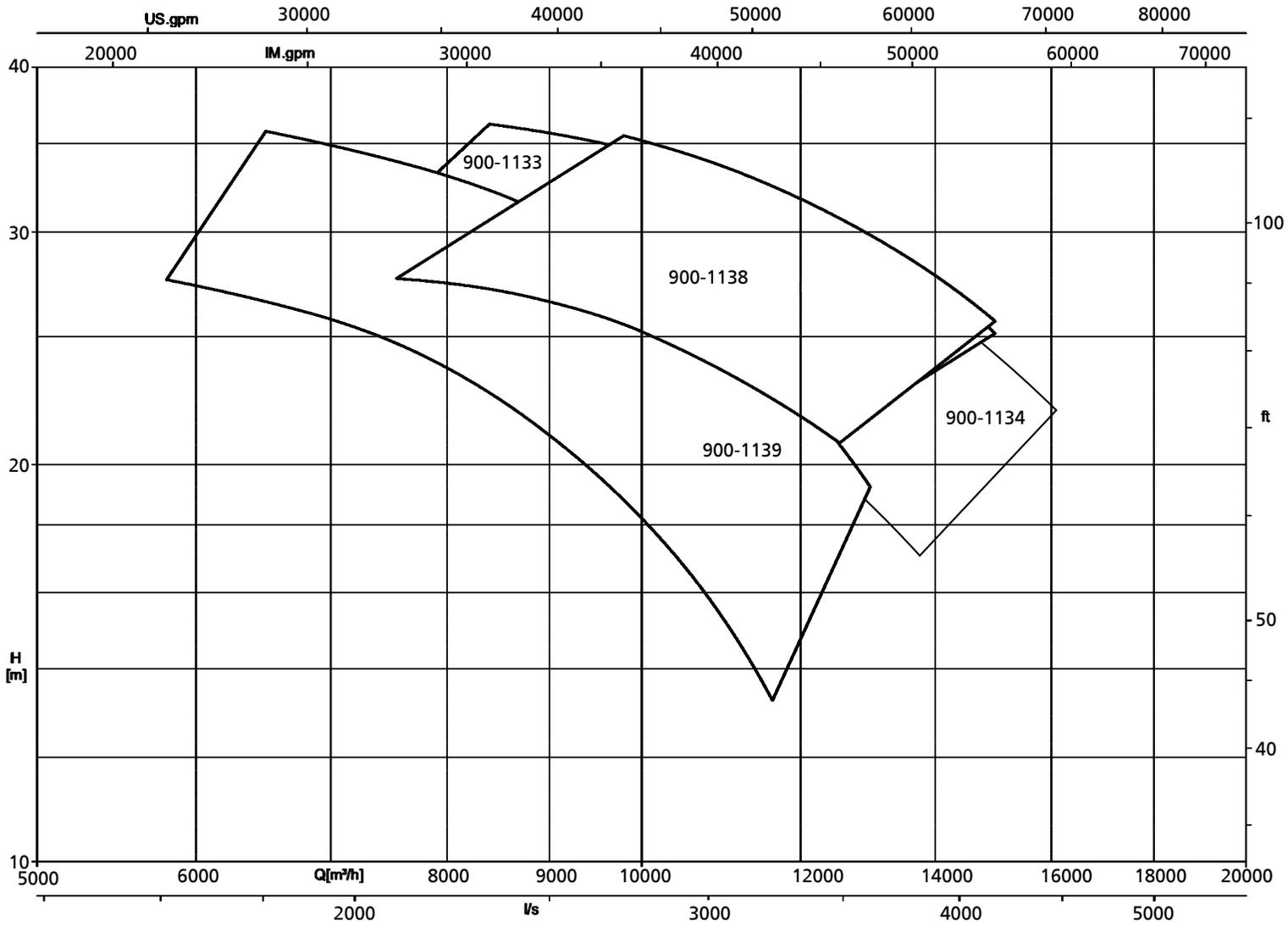
KWP K, n = 580 rpm



D00431



KWP K, n = 480 rpm

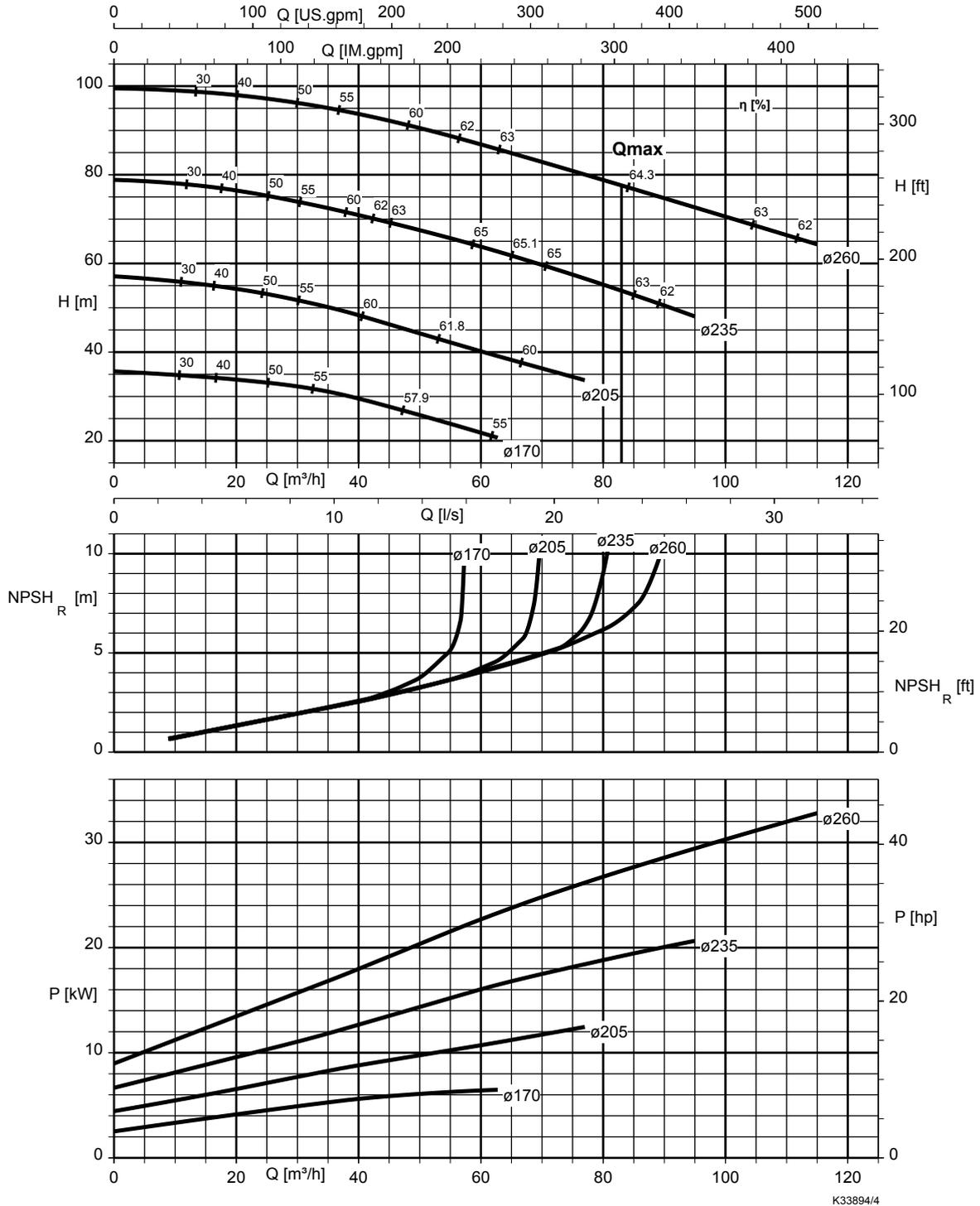


Characteristic curves

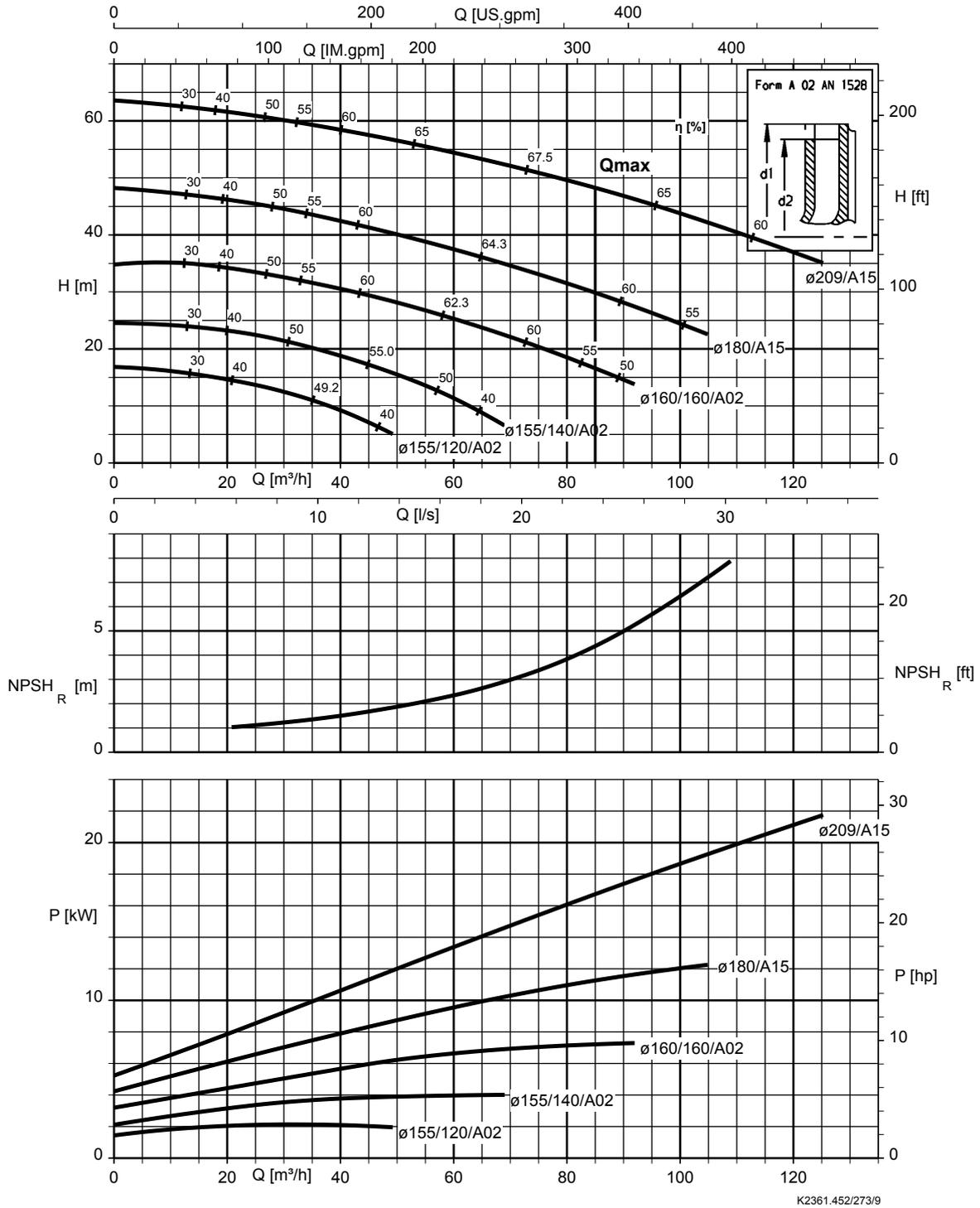
K impeller

n = 2900 rpm

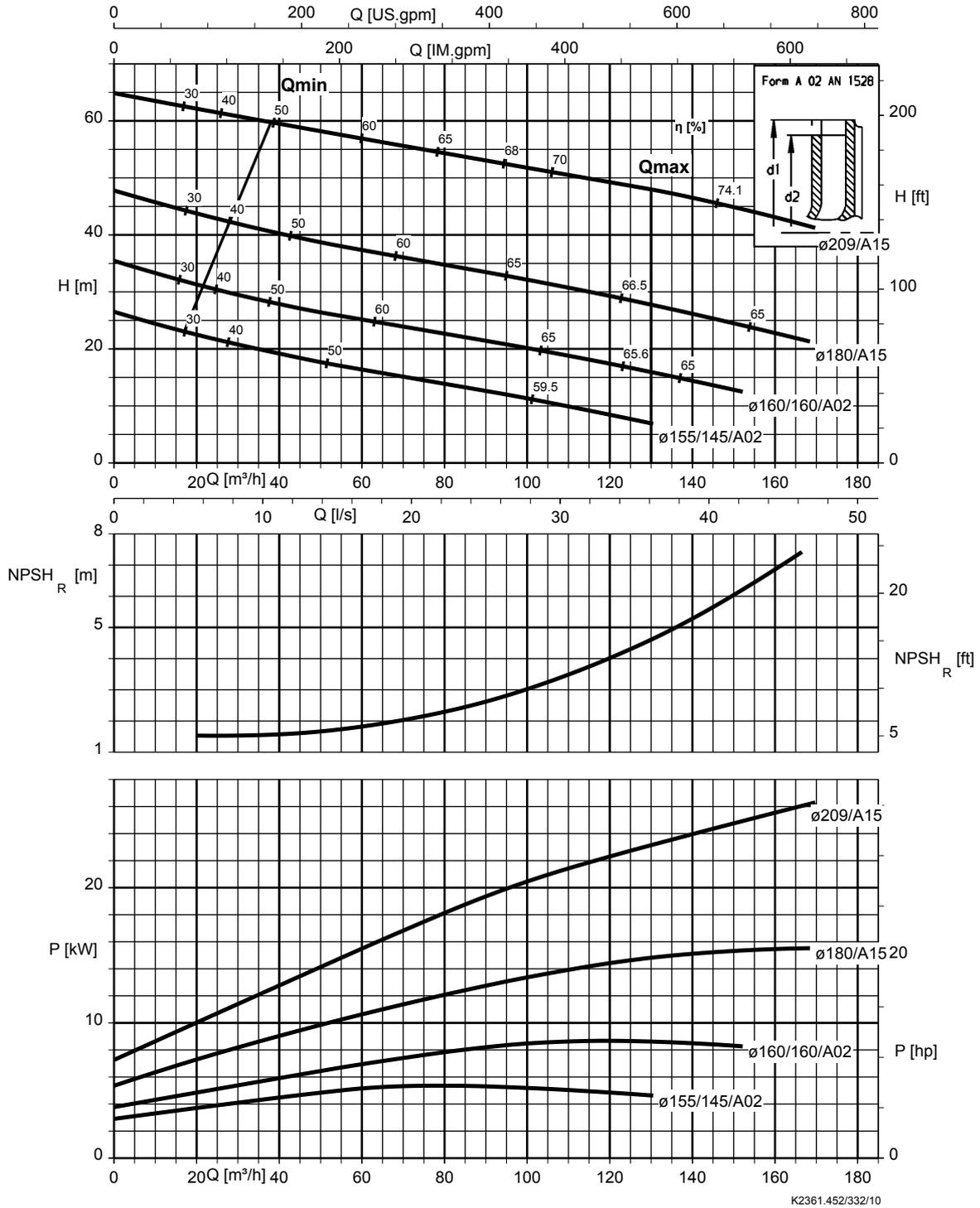
KWP K 065-040-250, n = 2900 rpm



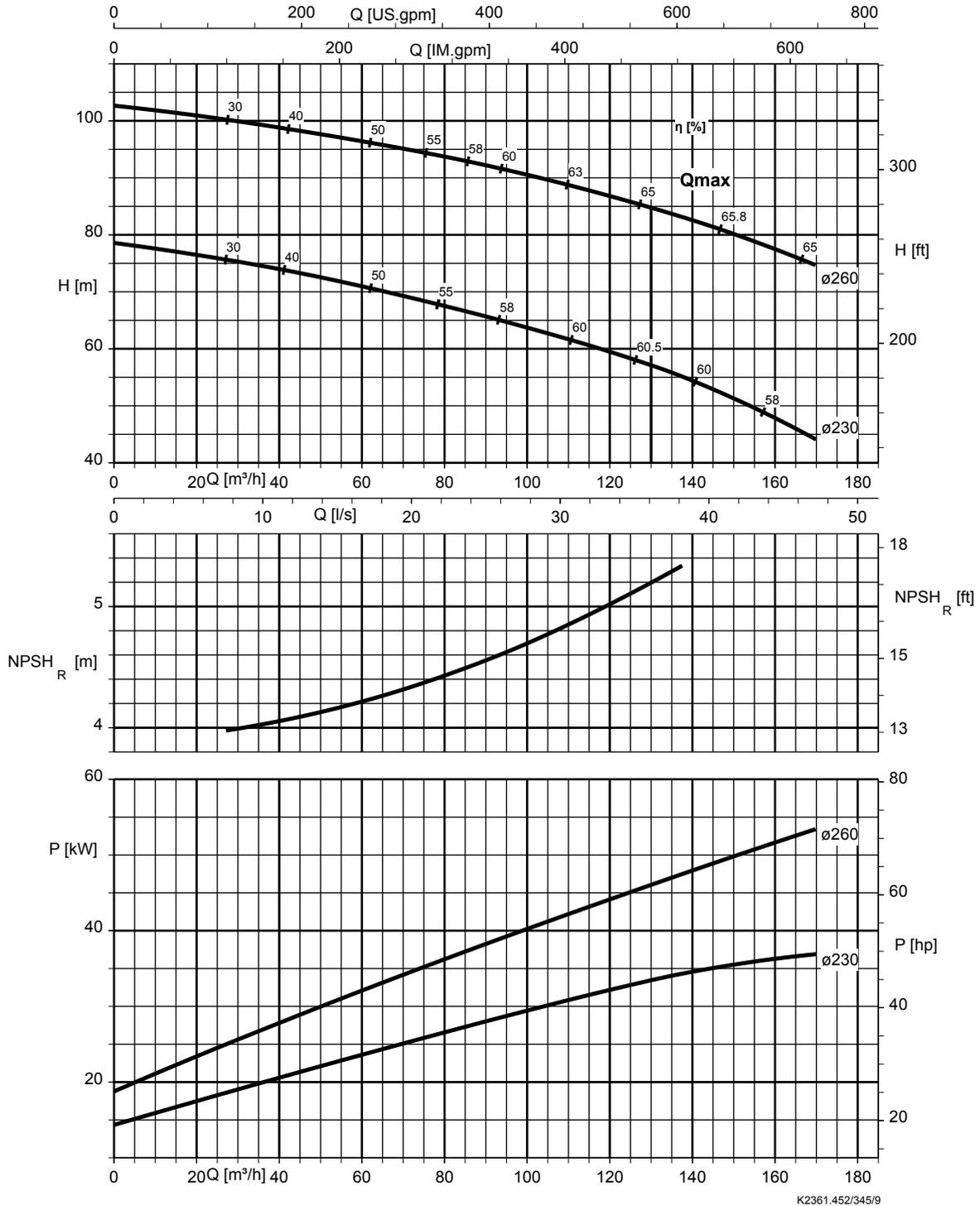
KWP K 065-050-200, n = 2900 rpm



KWP K 080-065-200, n = 2900 rpm

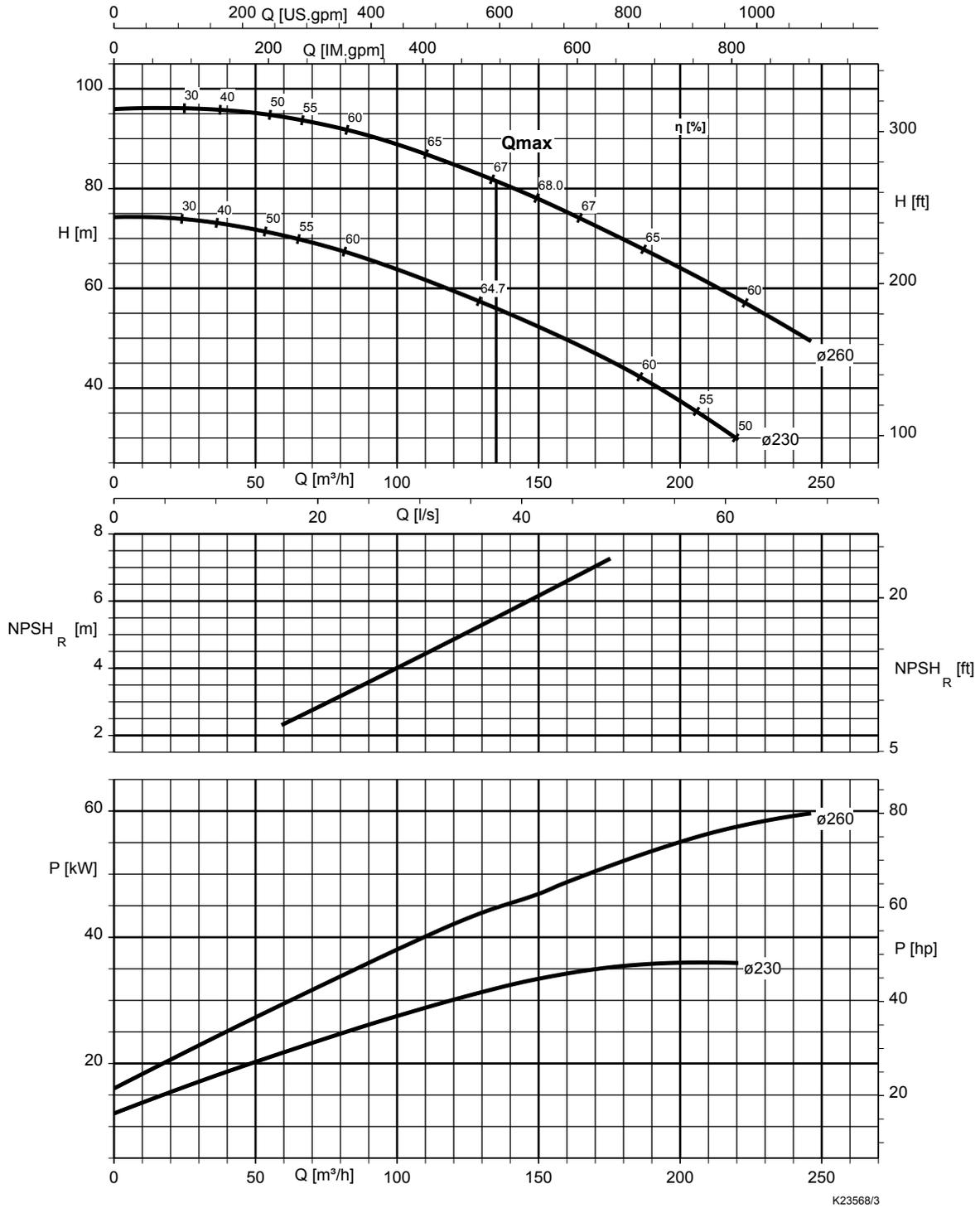


KWP K 080-065-315, n = 2900 rpm



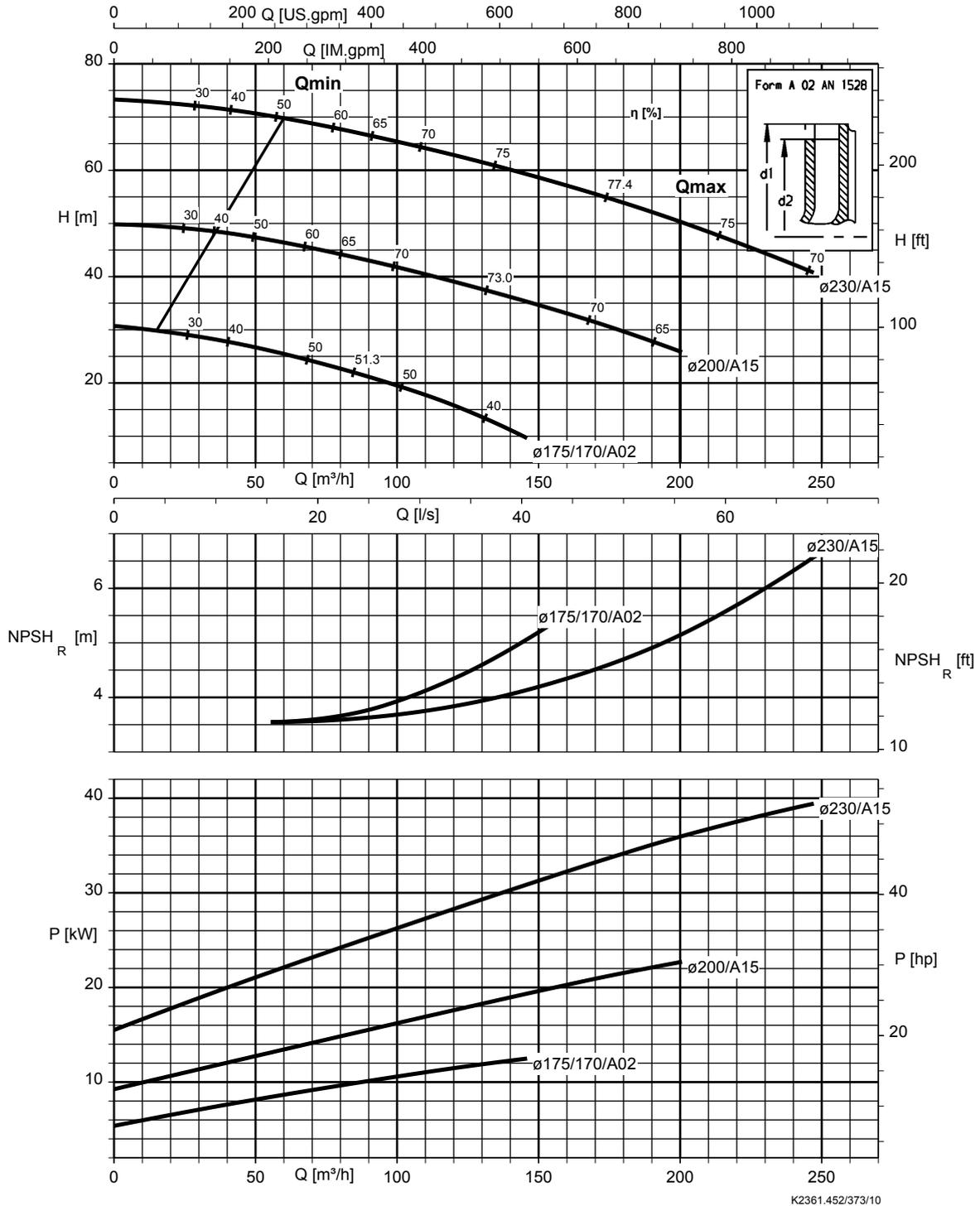
K2361.452/345/9

KWP K 080-065-313, n = 2900 rpm

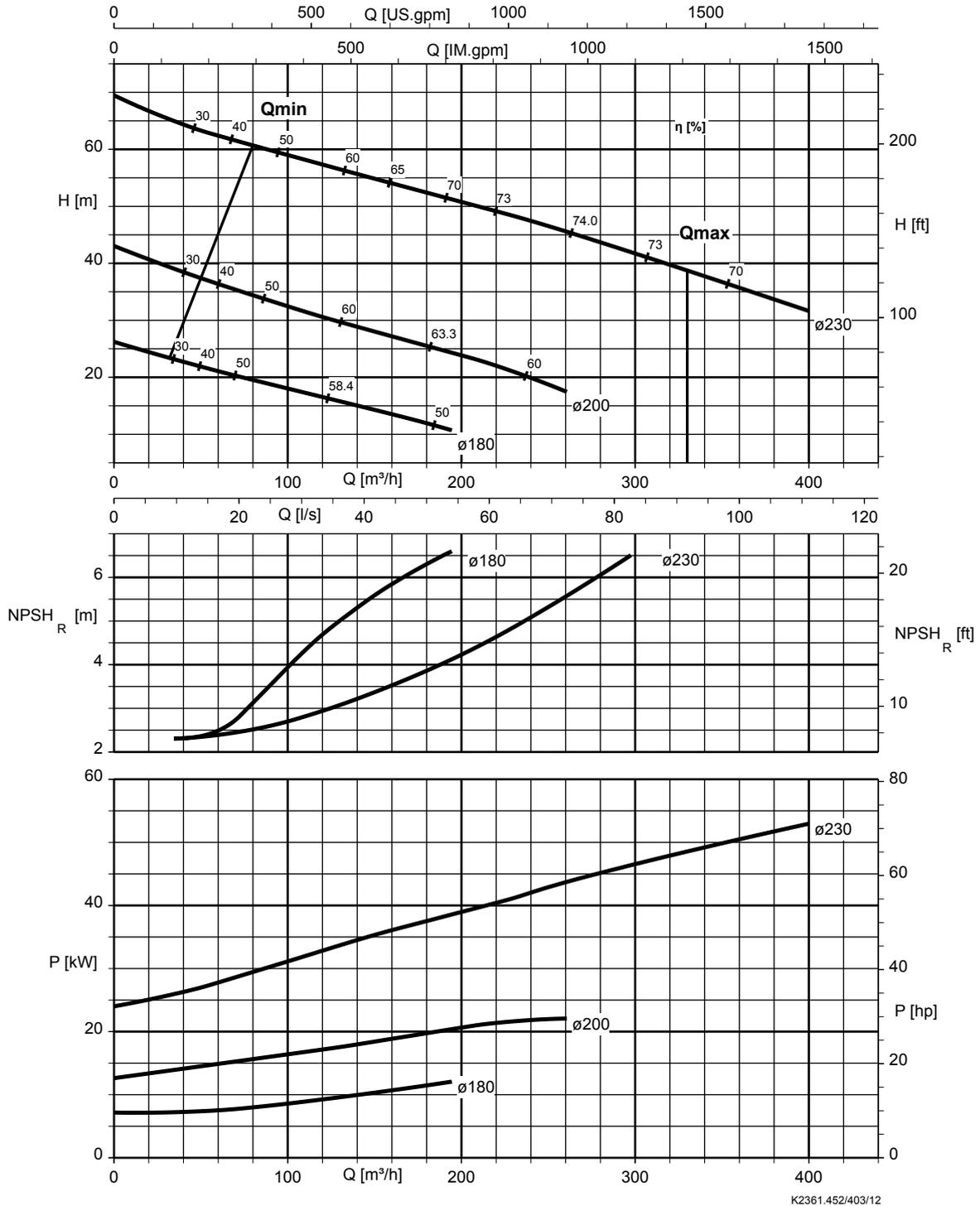


K23568/3

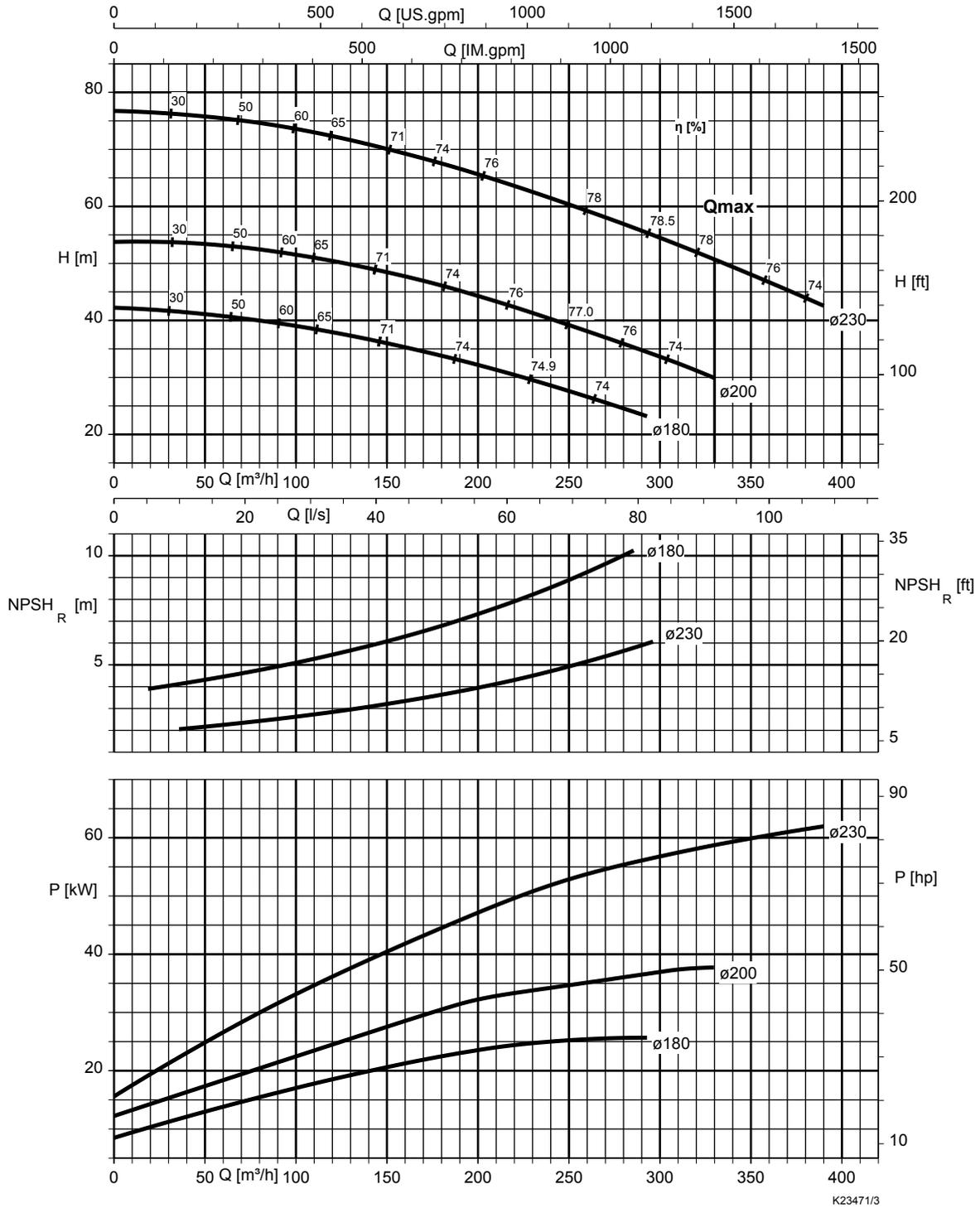
KWP K 100-080-250, n = 2900 rpm



KWP K 125-100-250, n = 2900 rpm

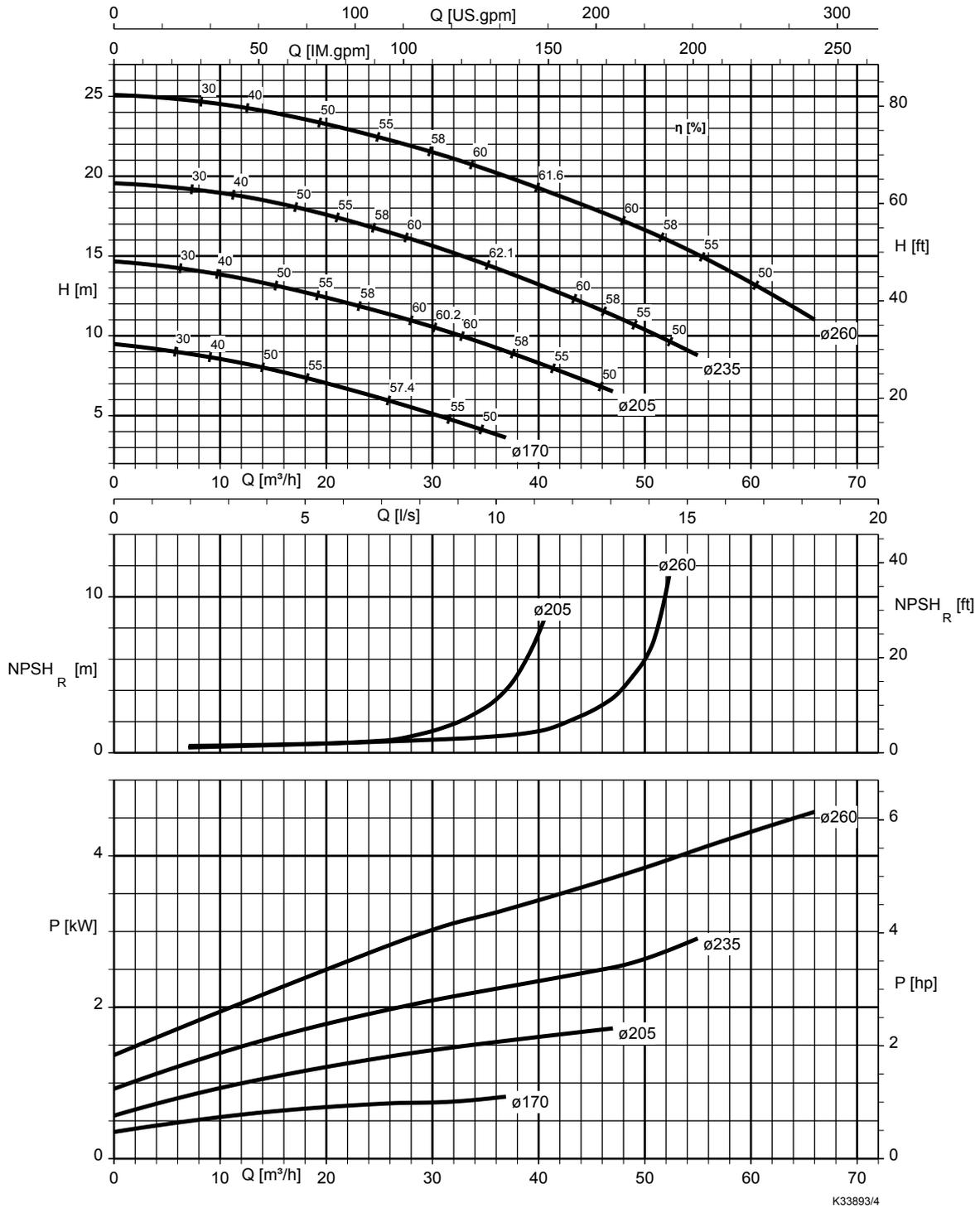


KWP K 125-100-253, n = 2900 rpm

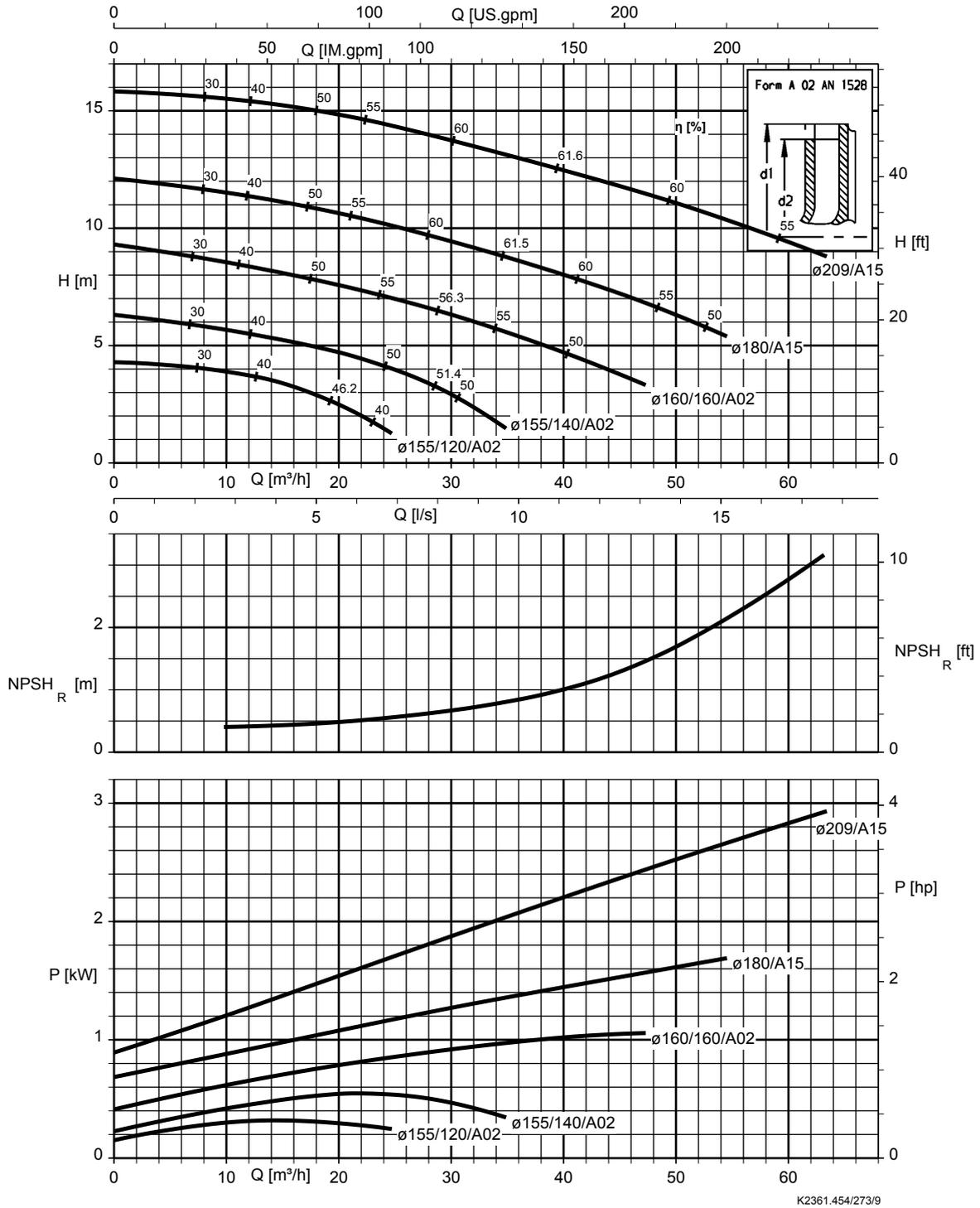


n = 1450 rpm

KWP K 065-040-250, n = 1450 rpm

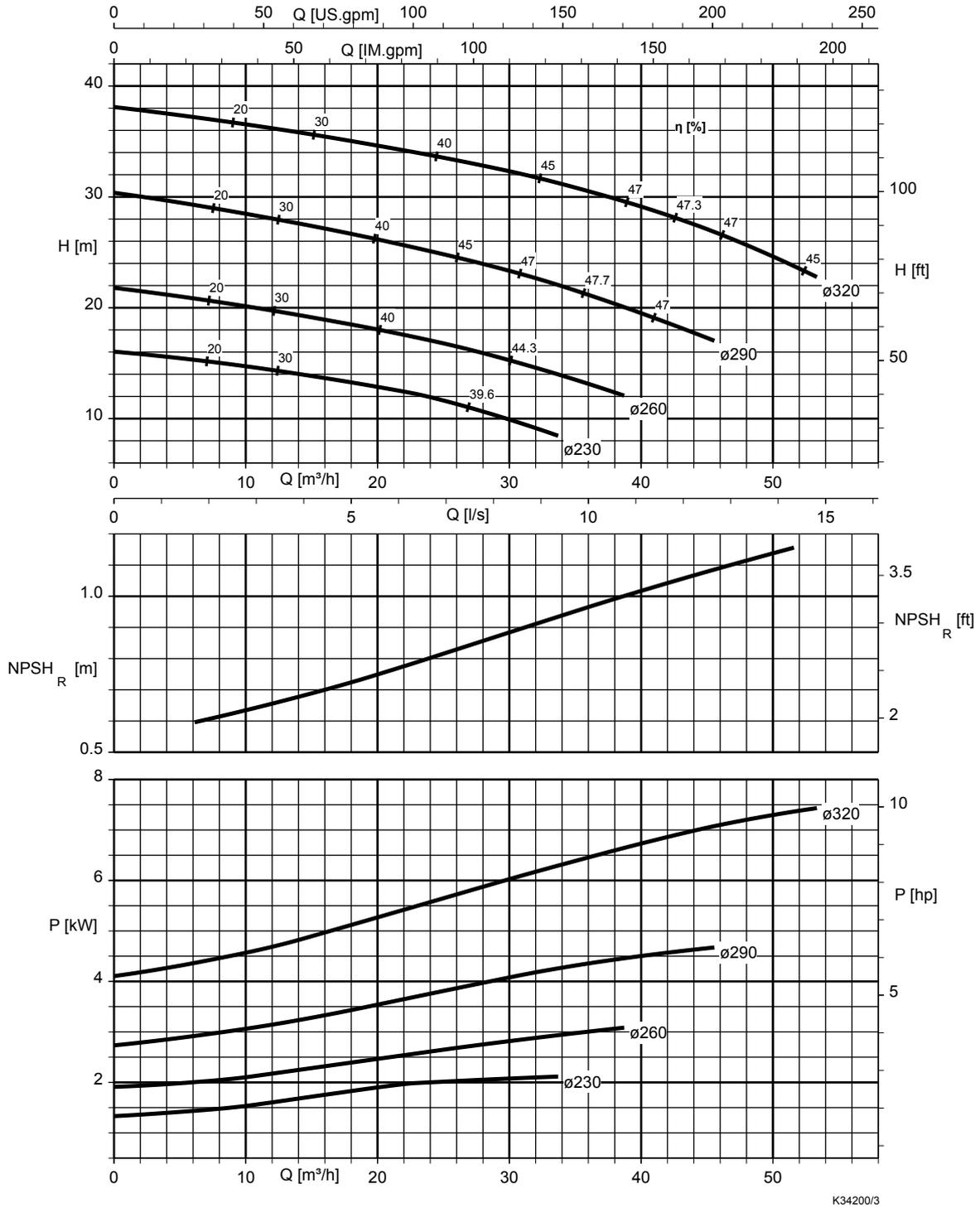


KWP K 065-050-200, n = 1450 rpm

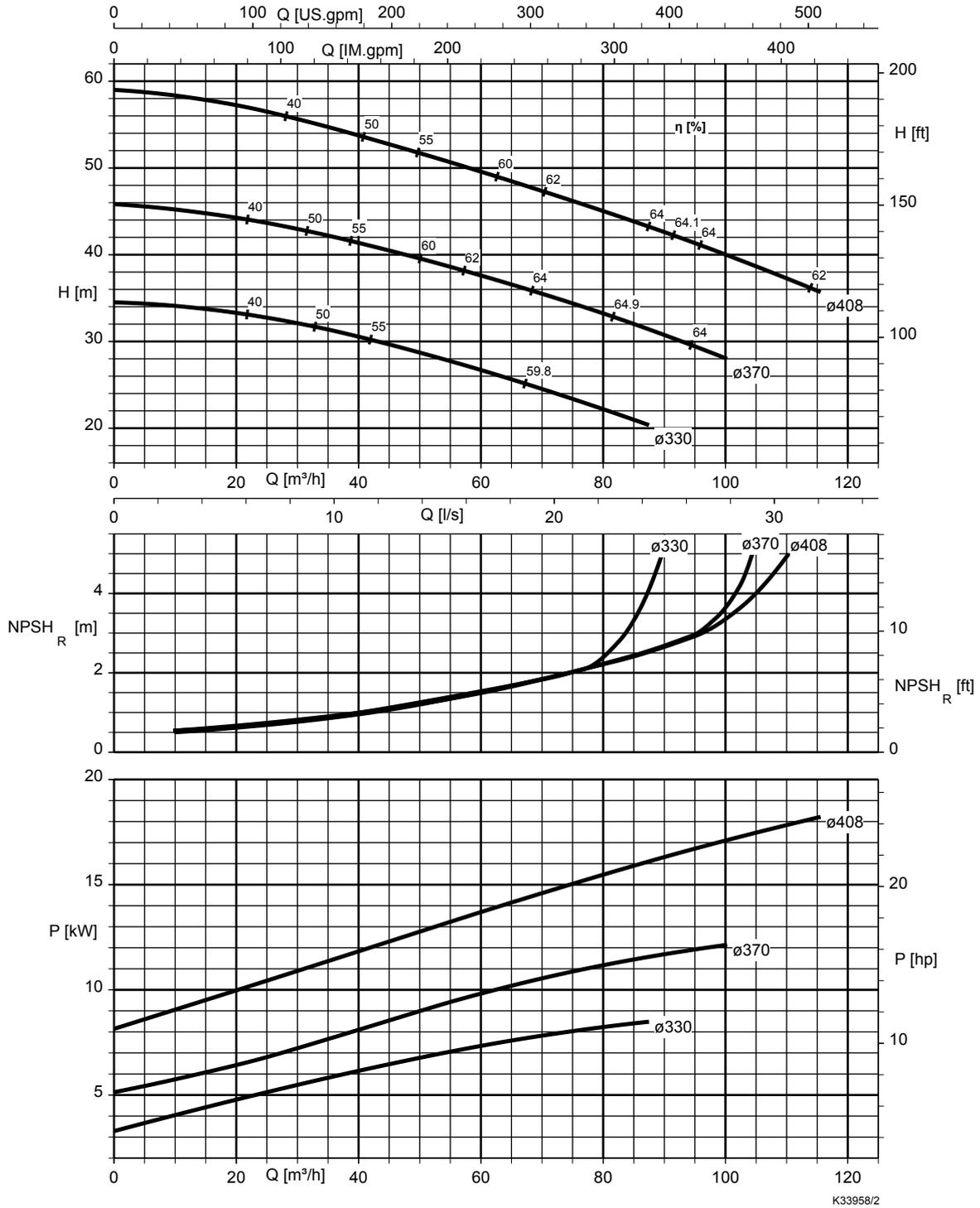


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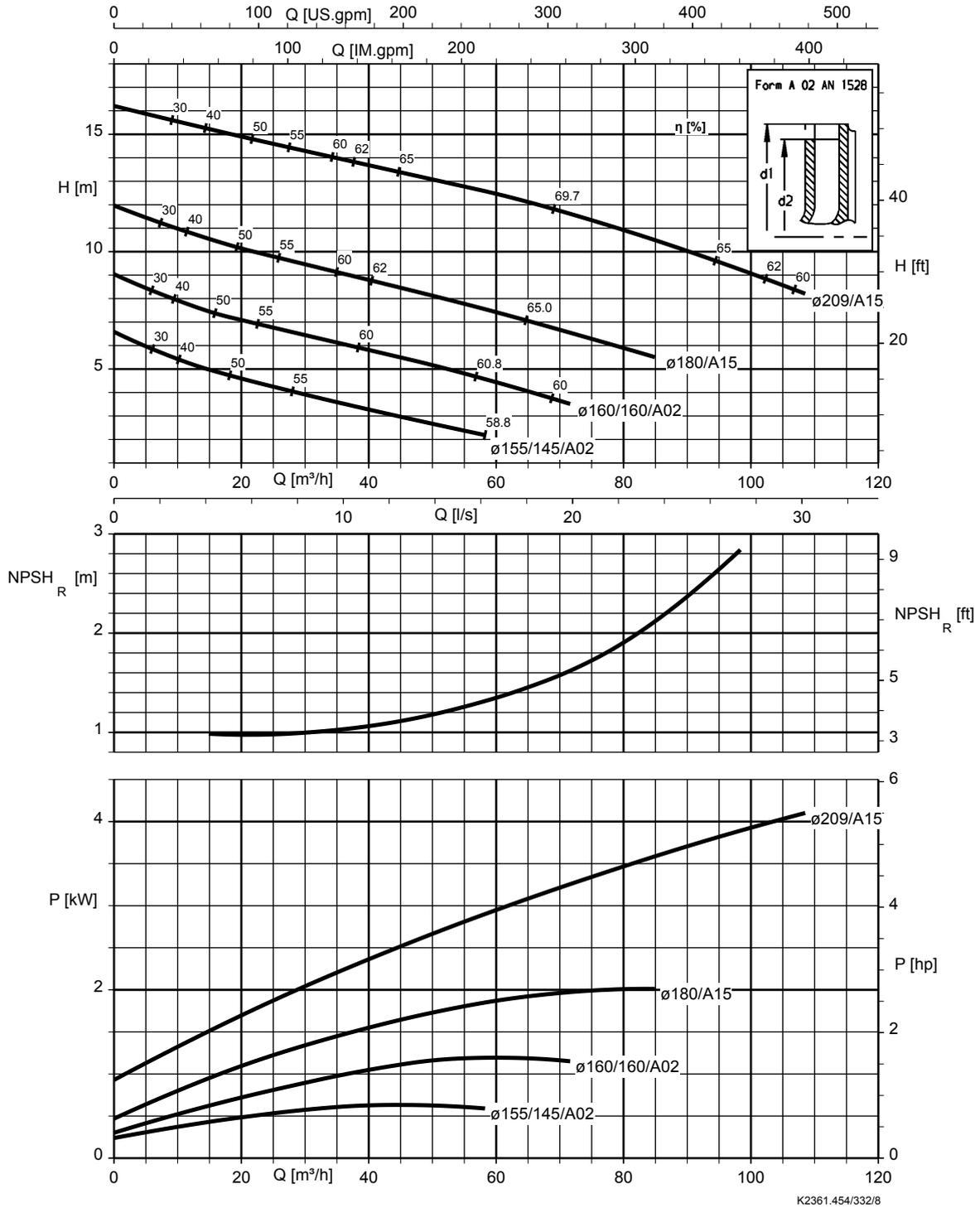
KWP K 080-040-315, n = 1450 rpm



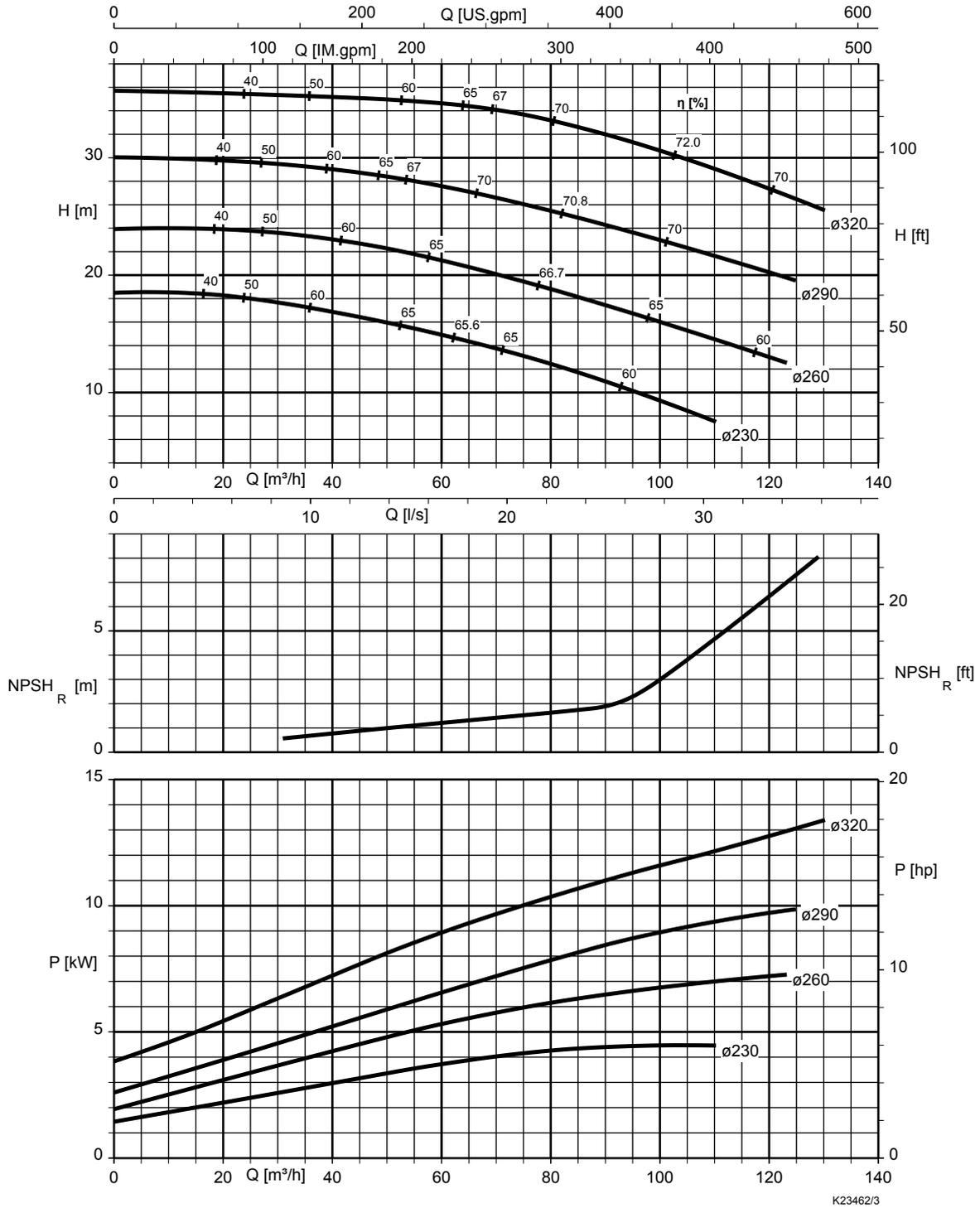
KWP K 080-050-400, n = 1450 rpm



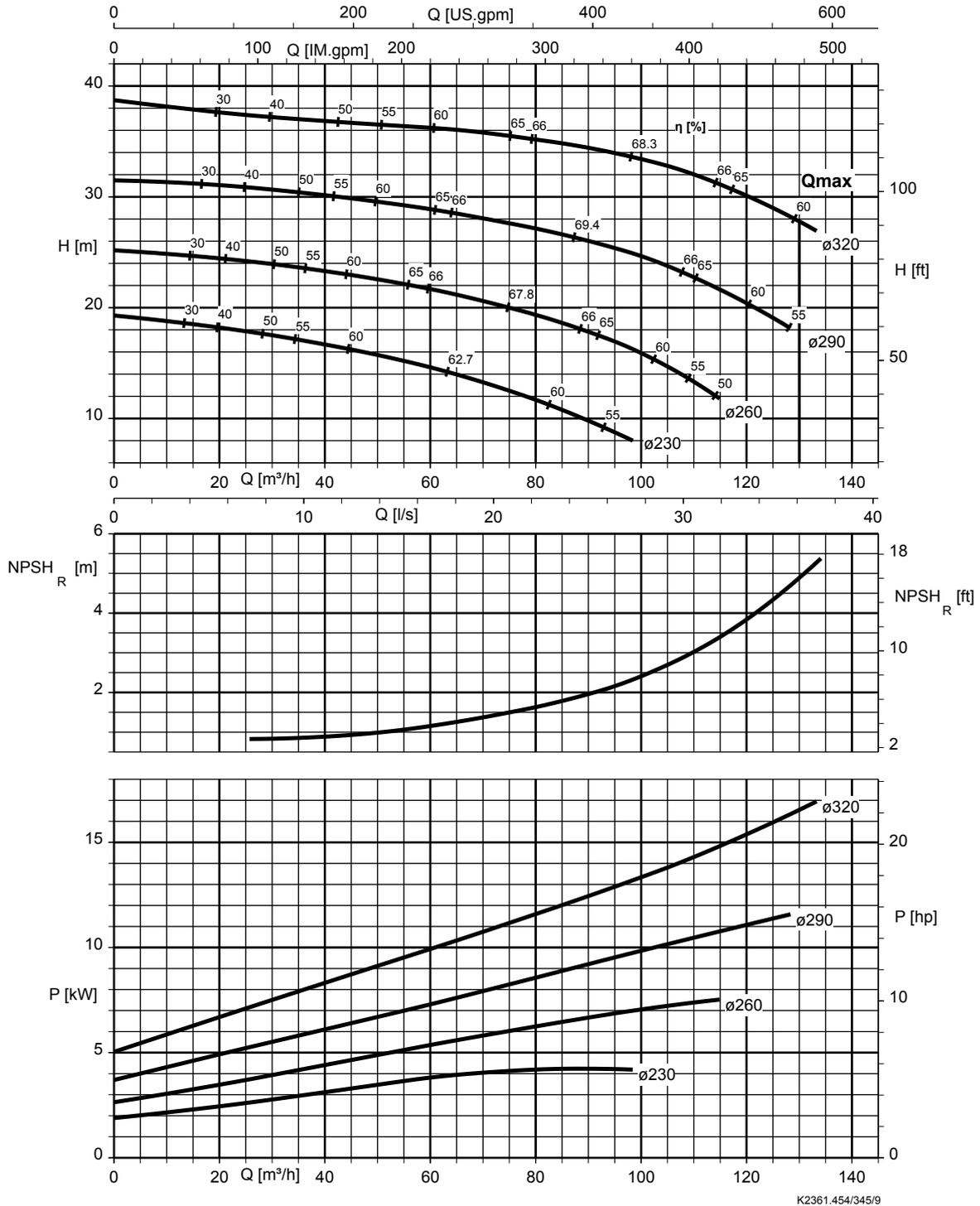
KWP K 080-065-200, n = 1450 rpm



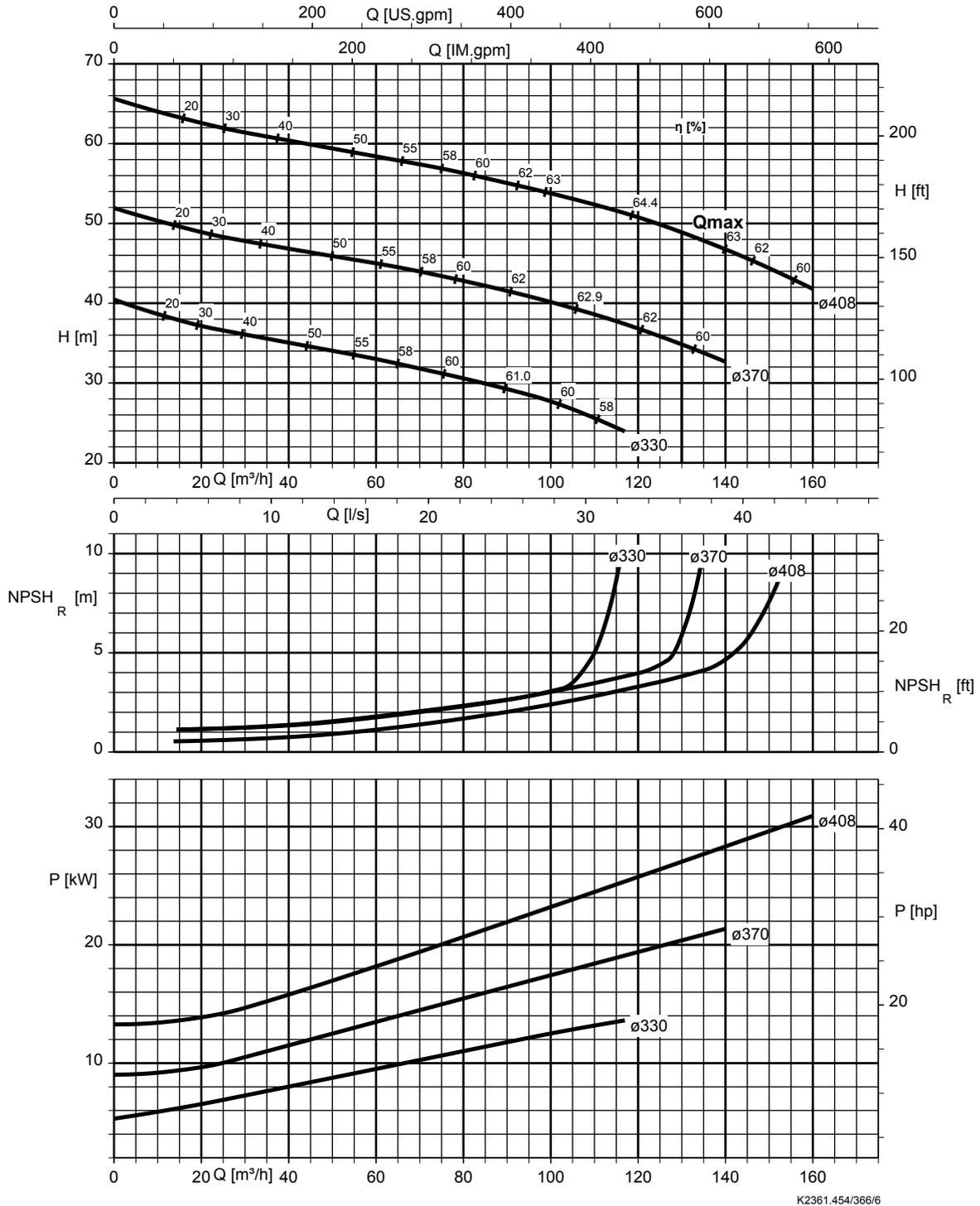
KWP K 080-065-313, n = 1450 rpm



KWP K 080-065-315, n = 1450 rpm

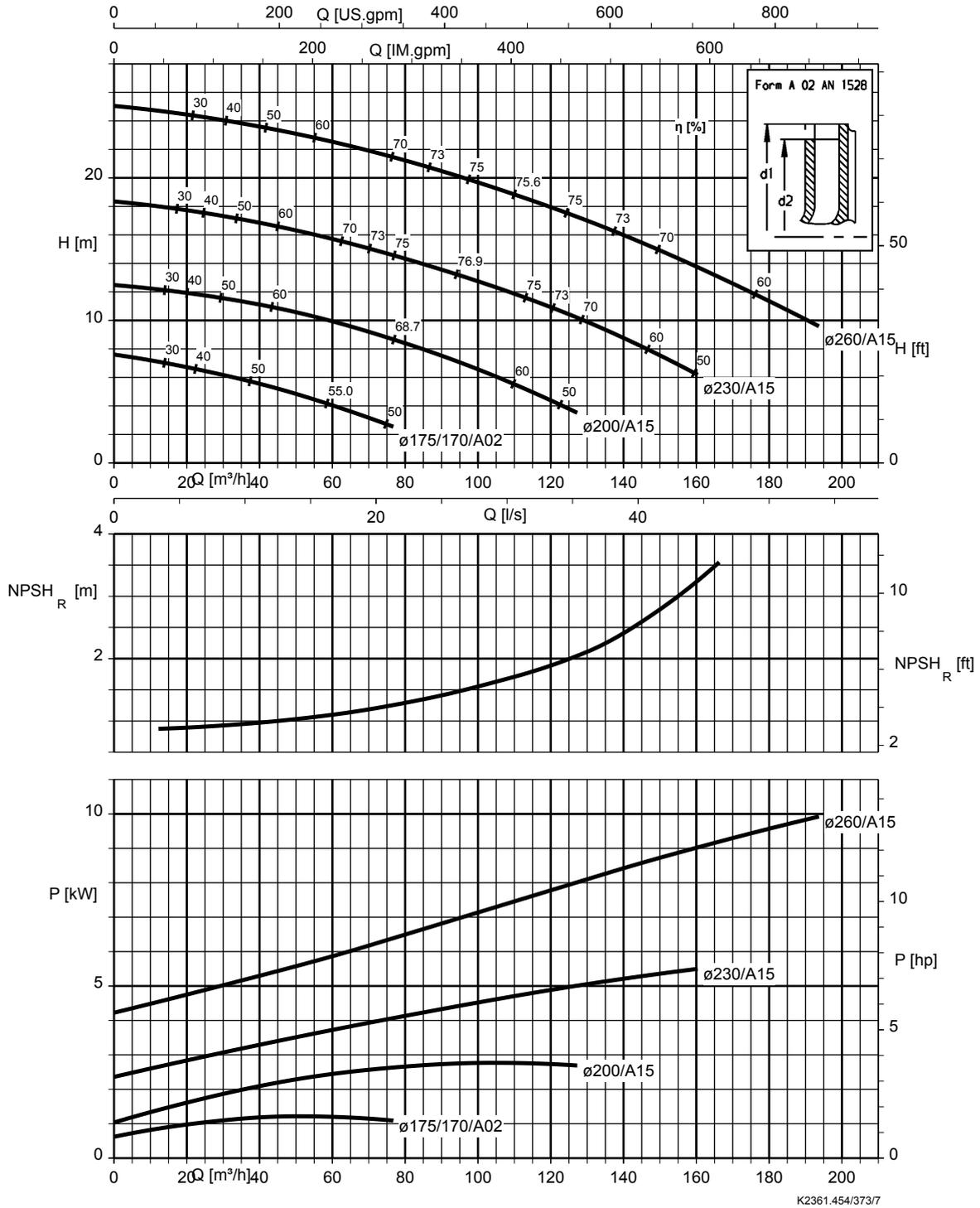


KWP K 080-065-400, n = 1450 rpm

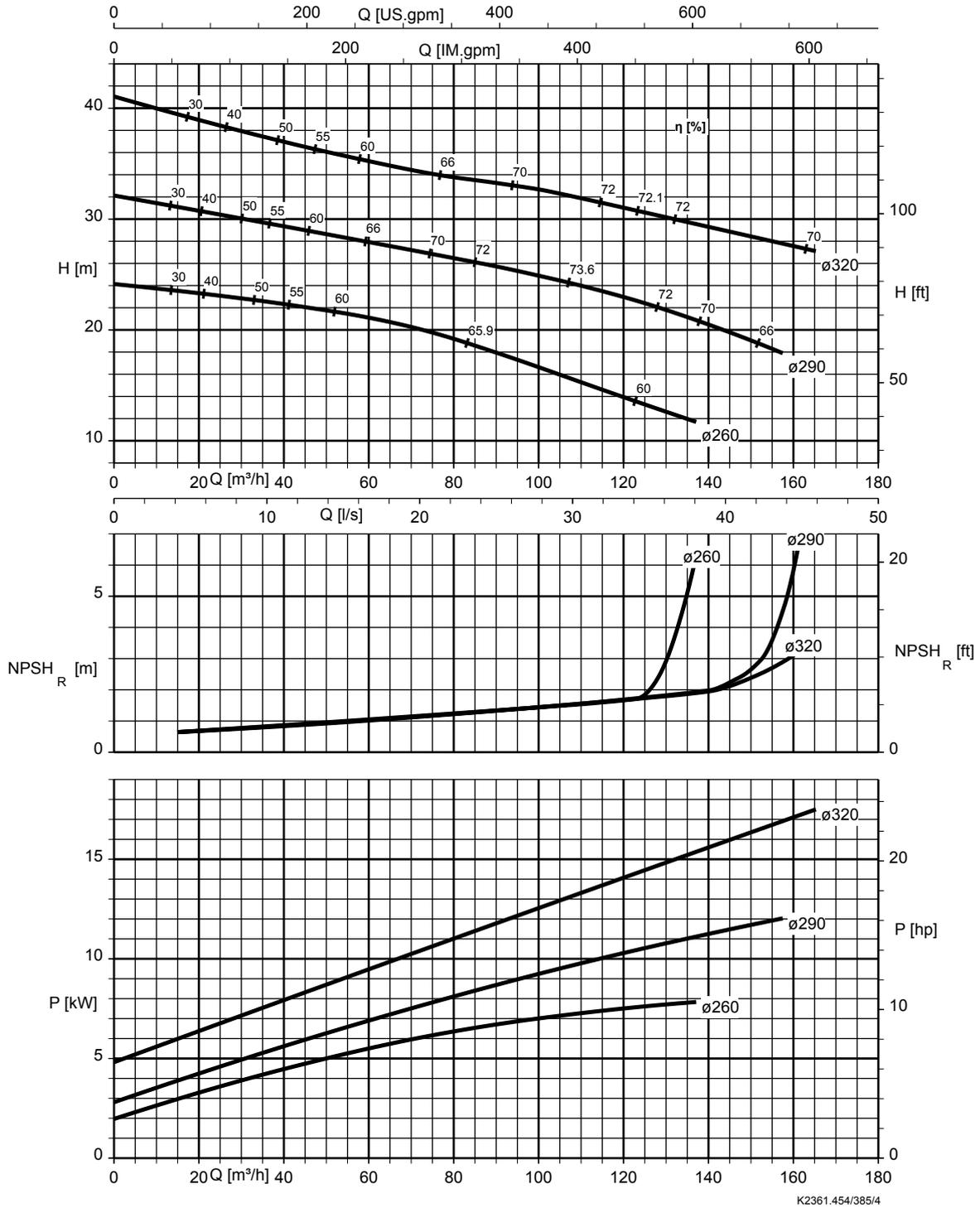


K2361.454/366/6

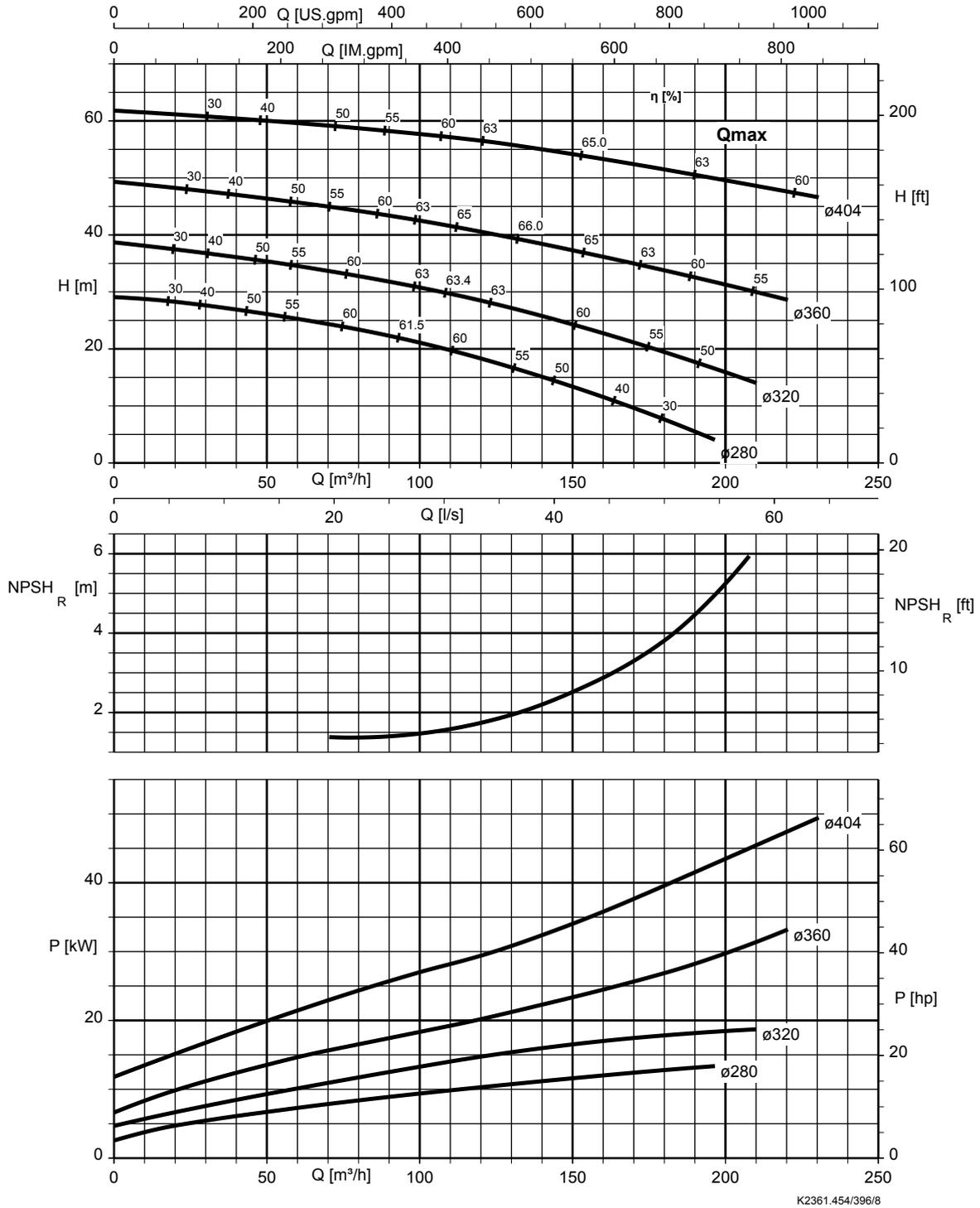
KWP K 100-080-250, n = 1450 rpm



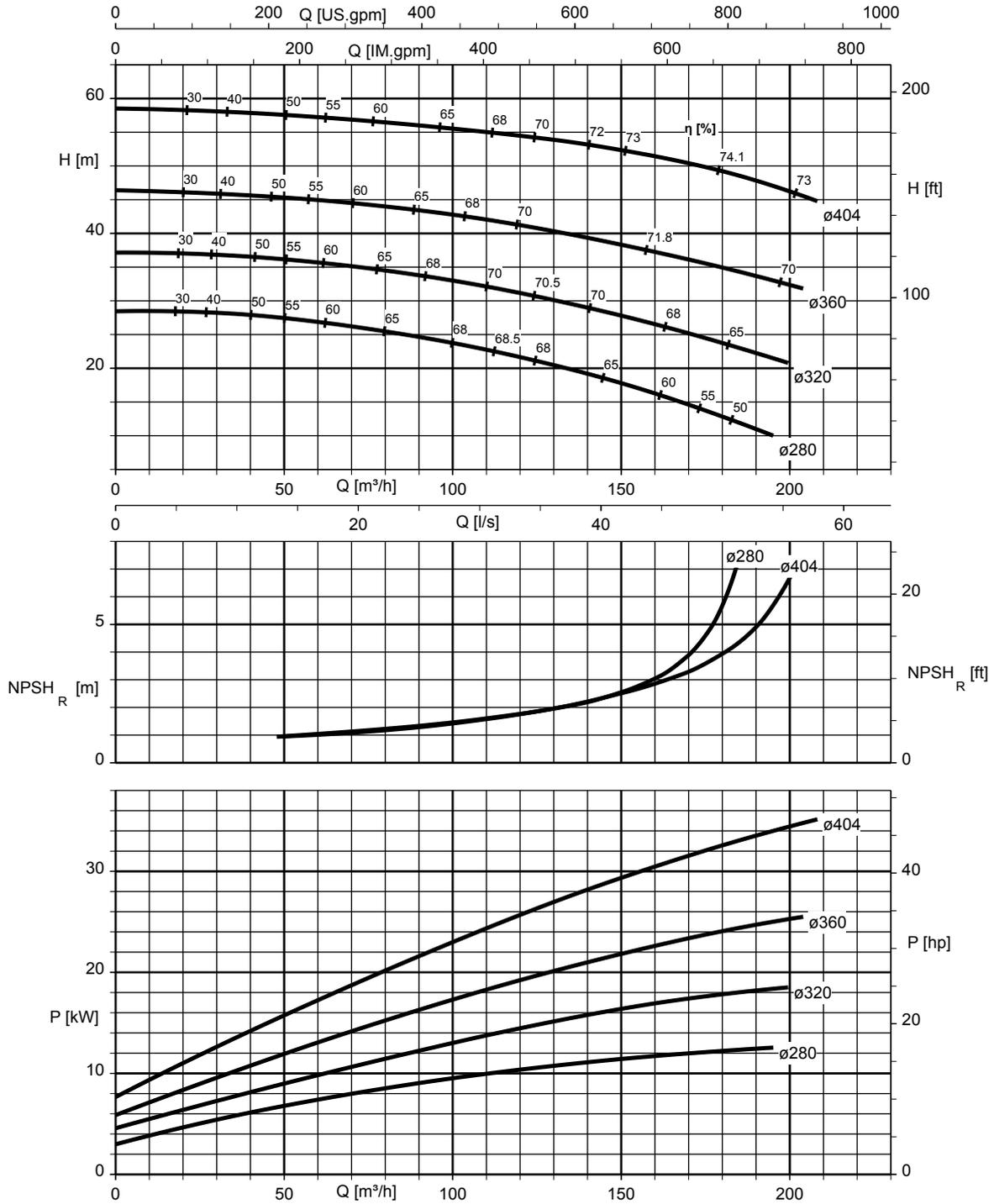
KWP K 100-080-315, n = 1450 rpm



KWP K 100-080-400, n = 1450 rpm

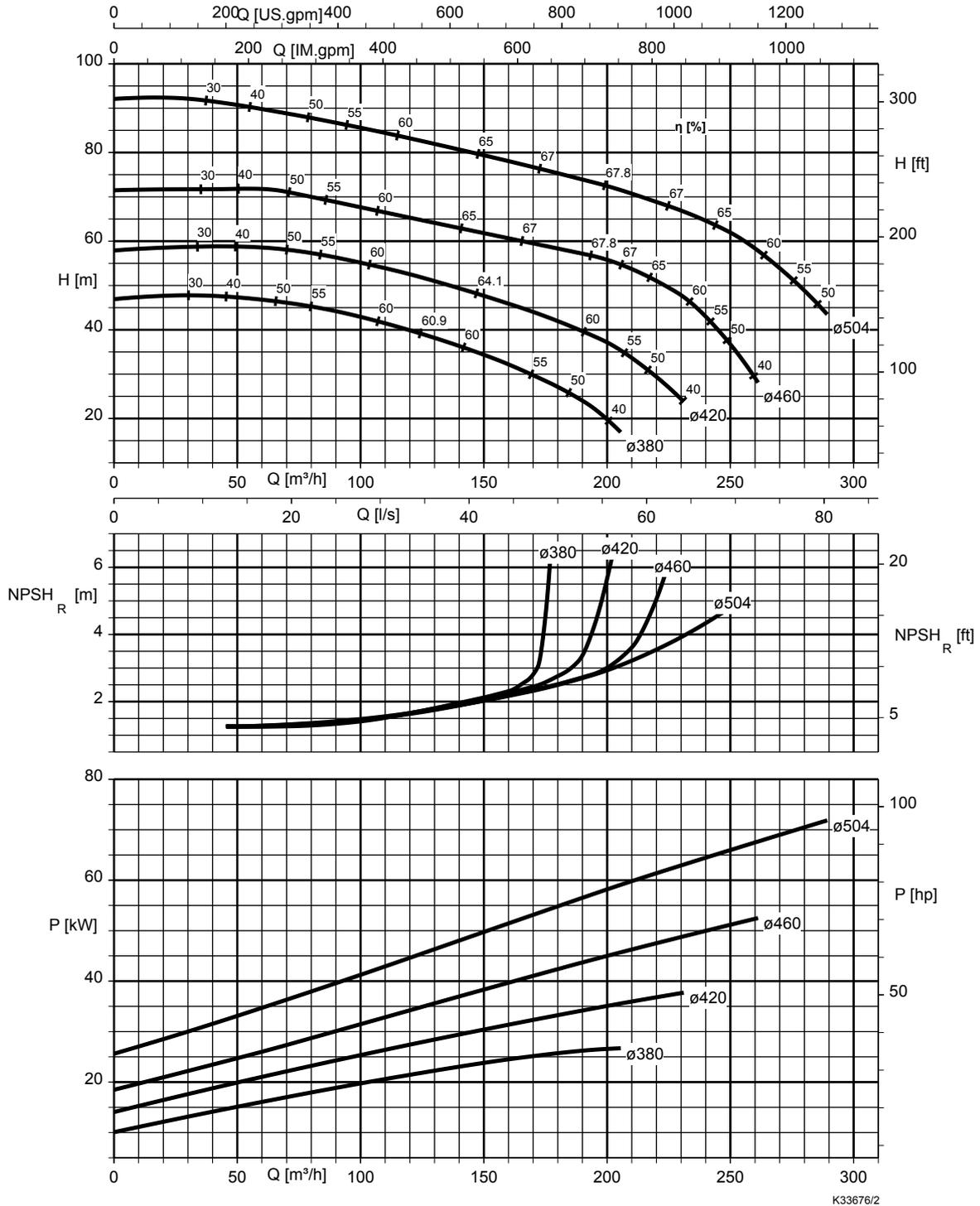


KWP K 100-080-403, n = 1450 rpm



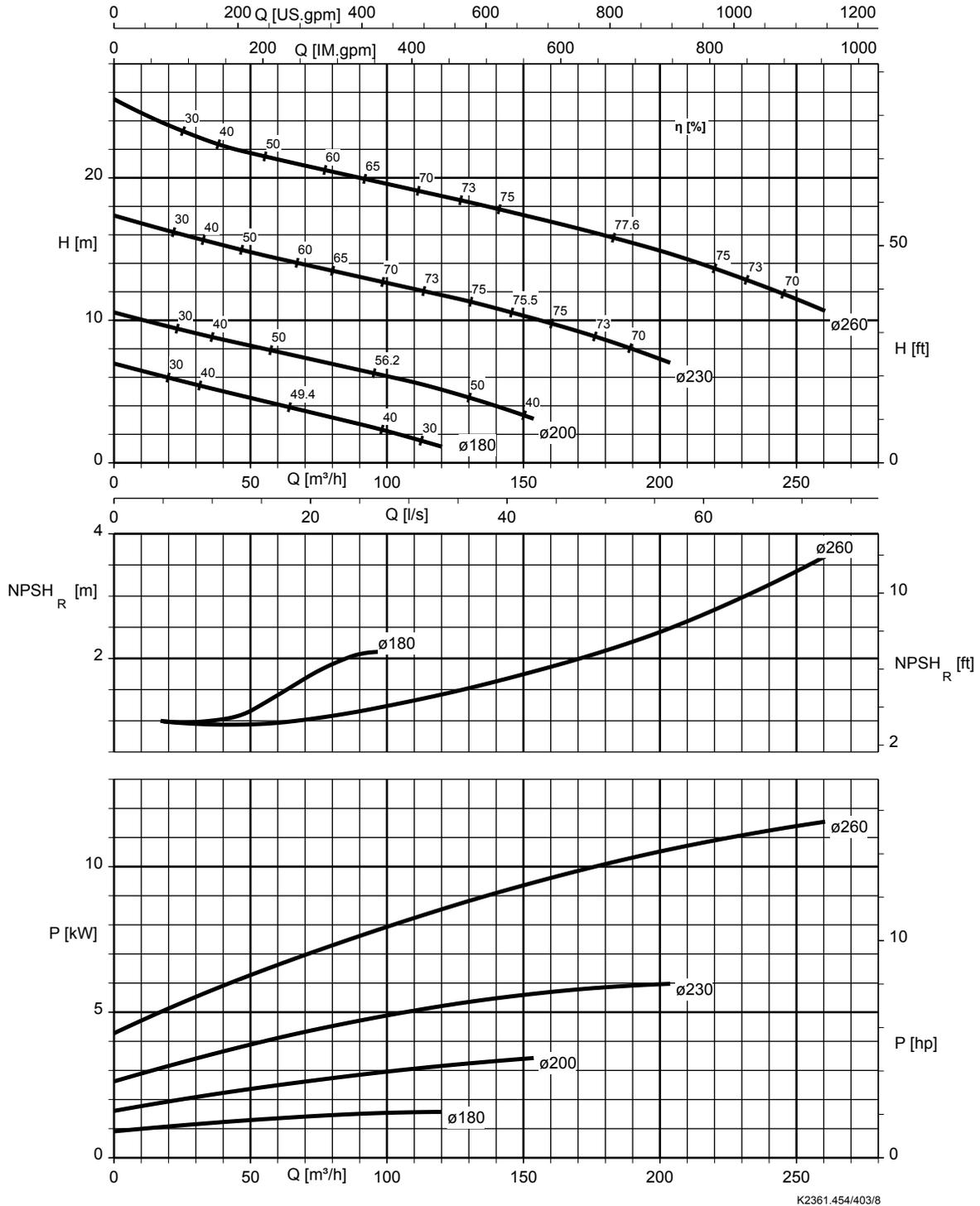
K23466/2

KWP K 125-080-500, n = 1450 rpm



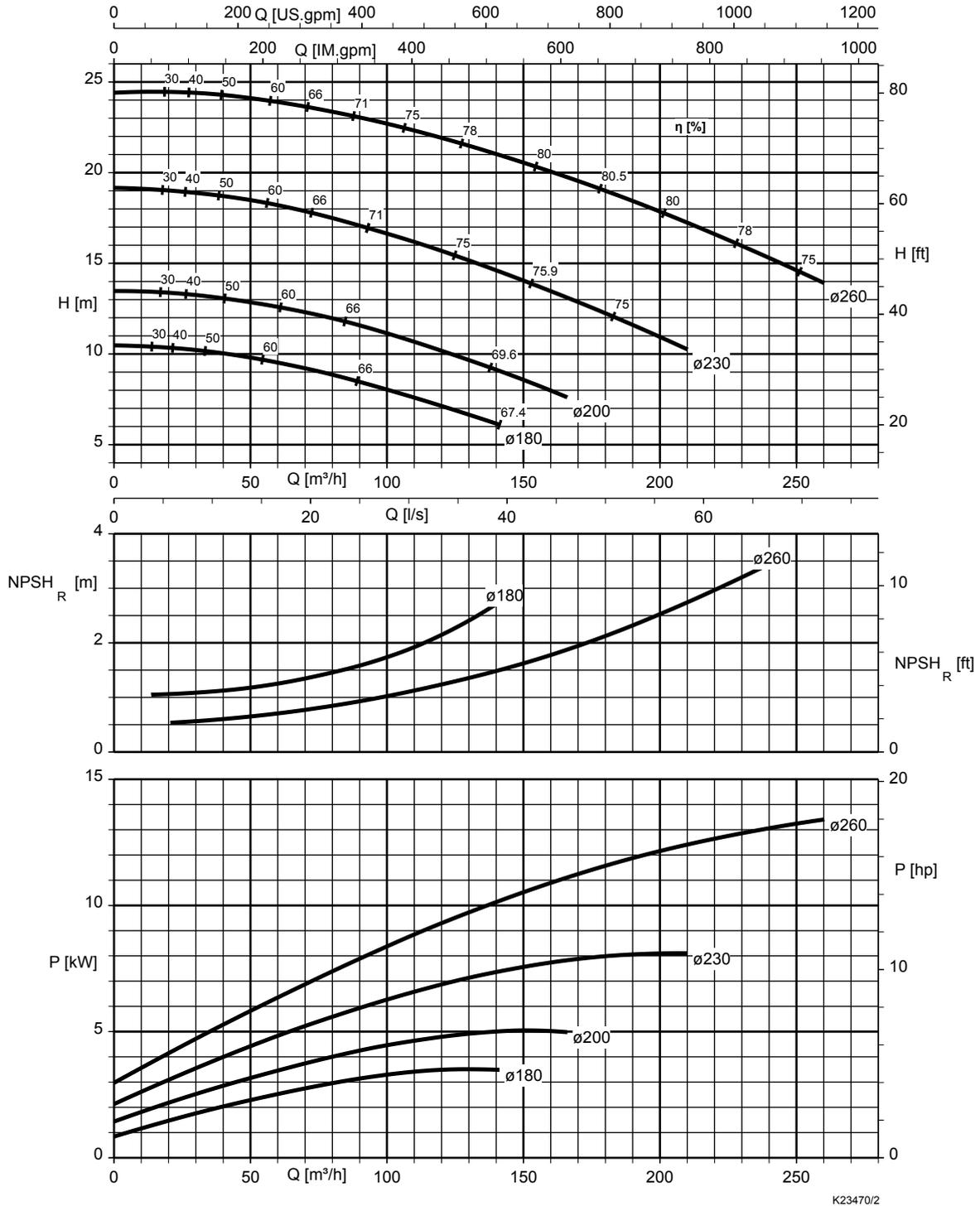
K33676/2

KWP K 125-100-250, n = 1450 rpm



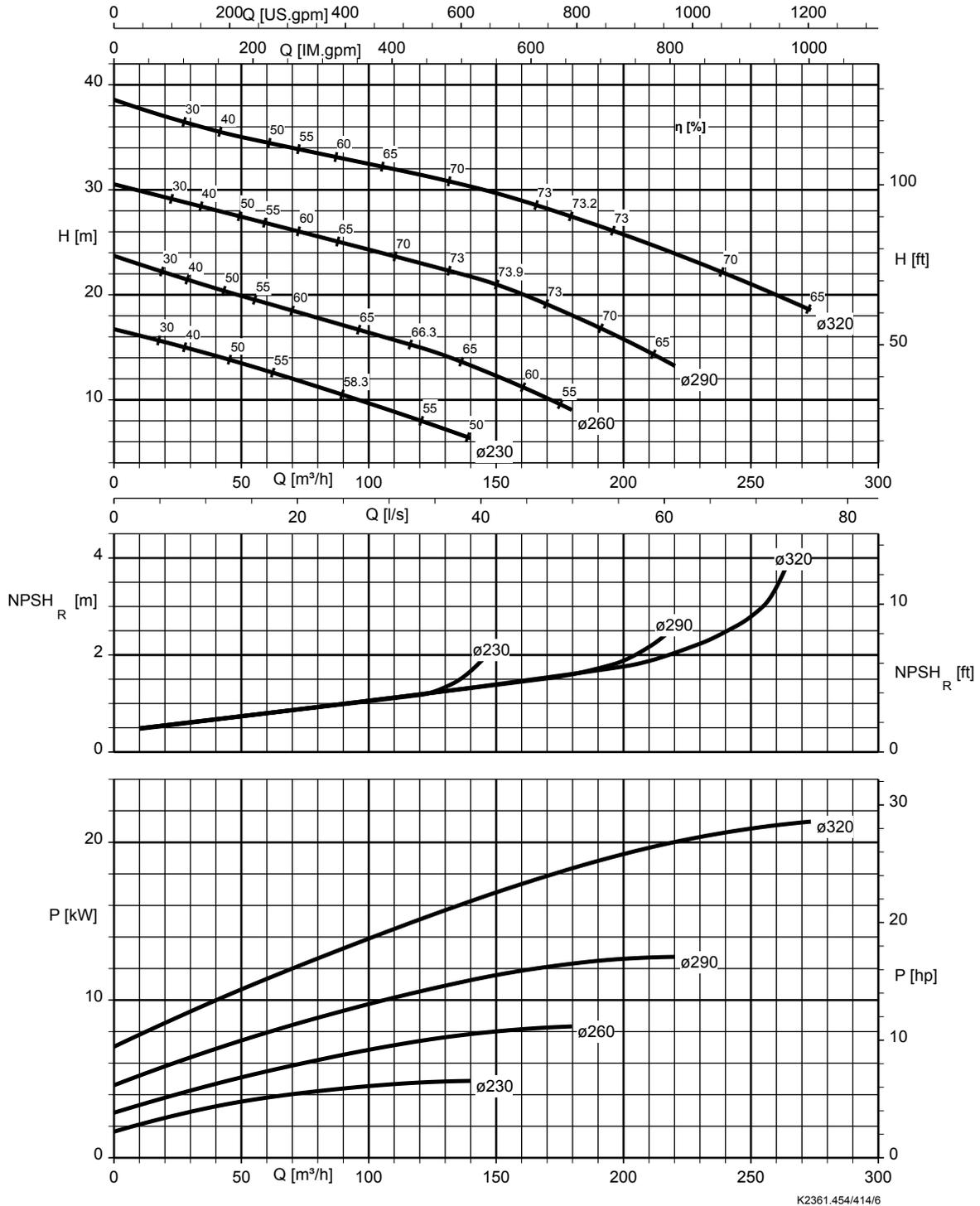
K2361.454/403/8

KWP K 125-100-253, n = 1450 rpm

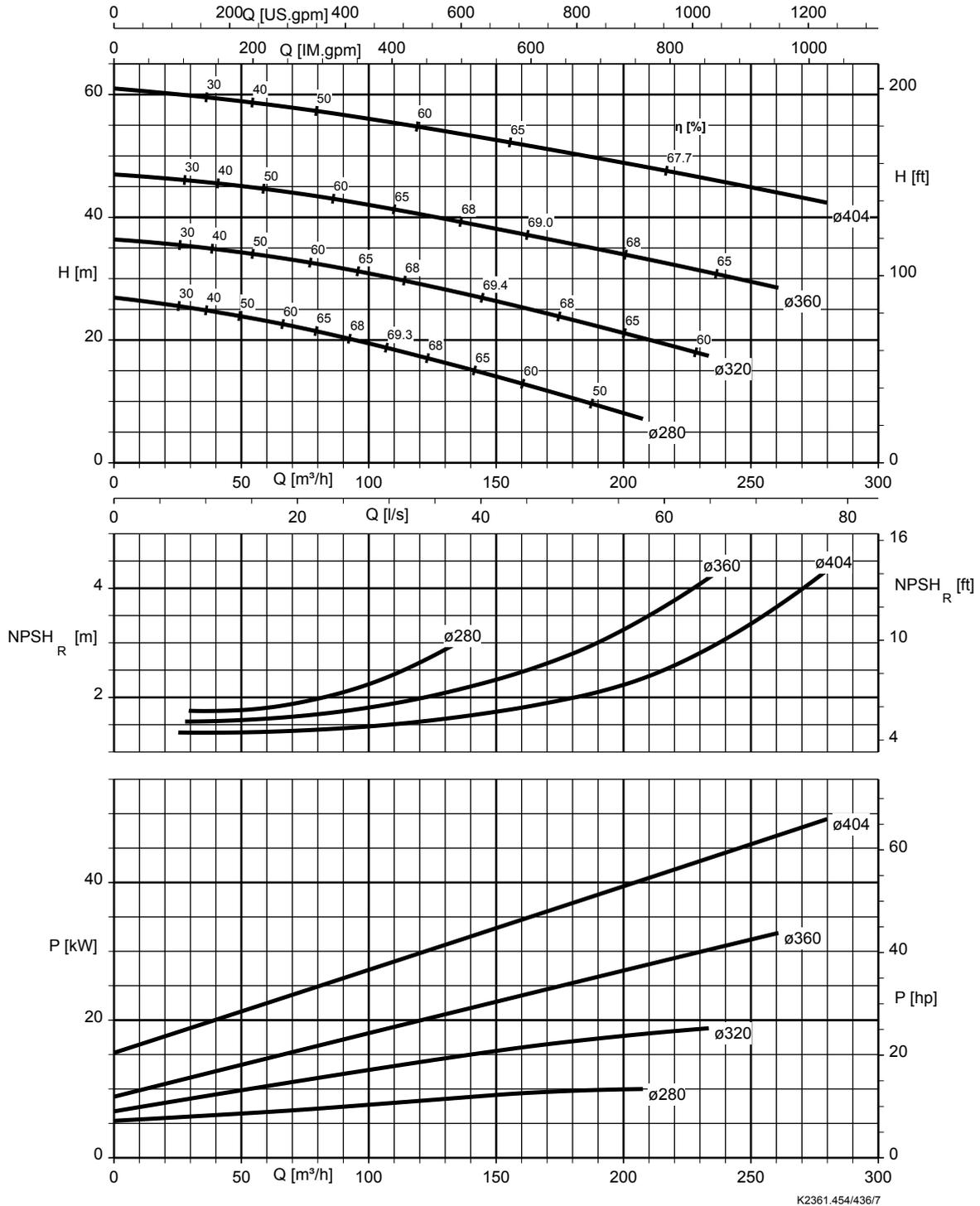


K23470/2

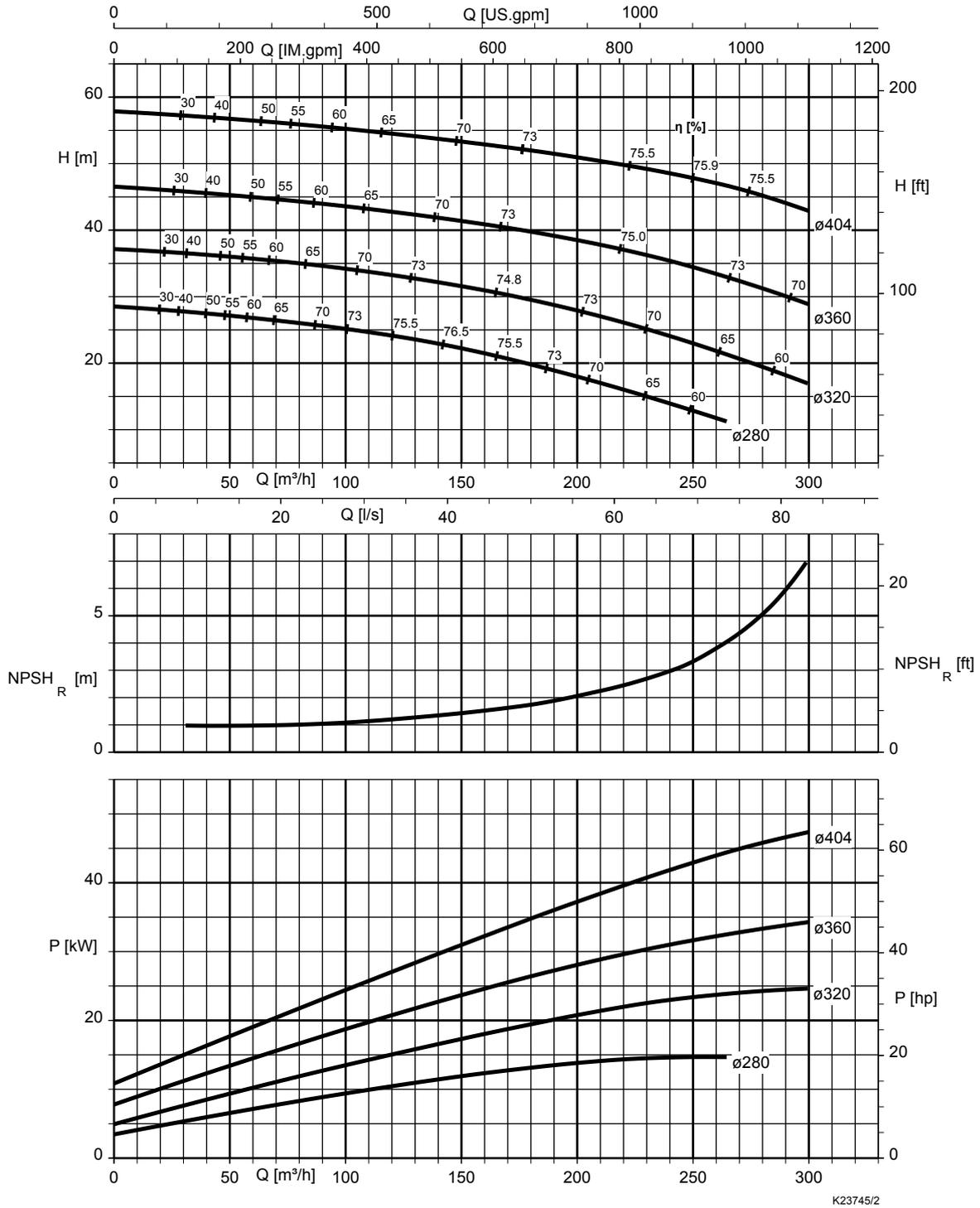
KWP K 125-100-315, n = 1450 rpm



KWP K 125-100-400, n = 1450 rpm

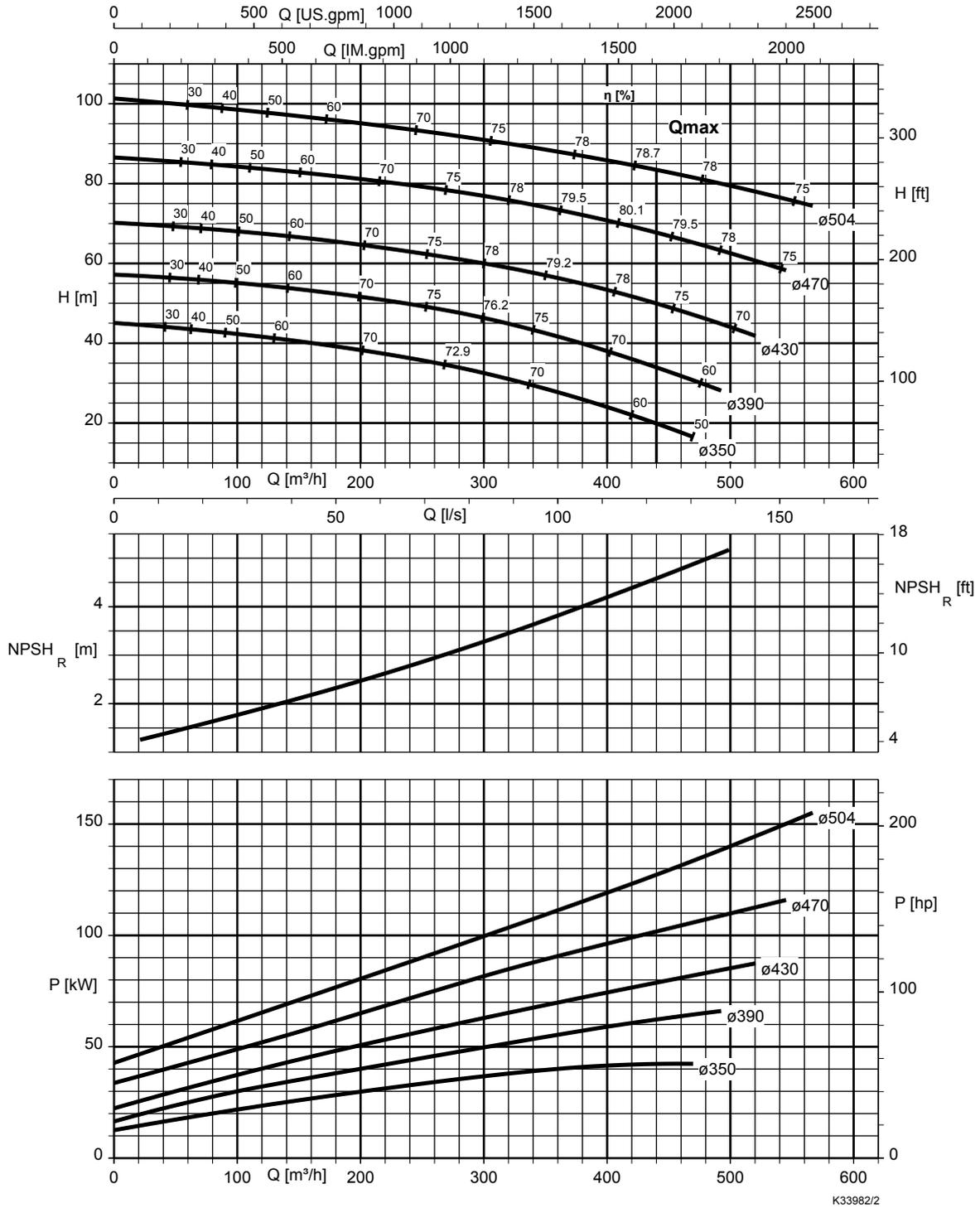


KWP K 125-100-403, n = 1450 rpm

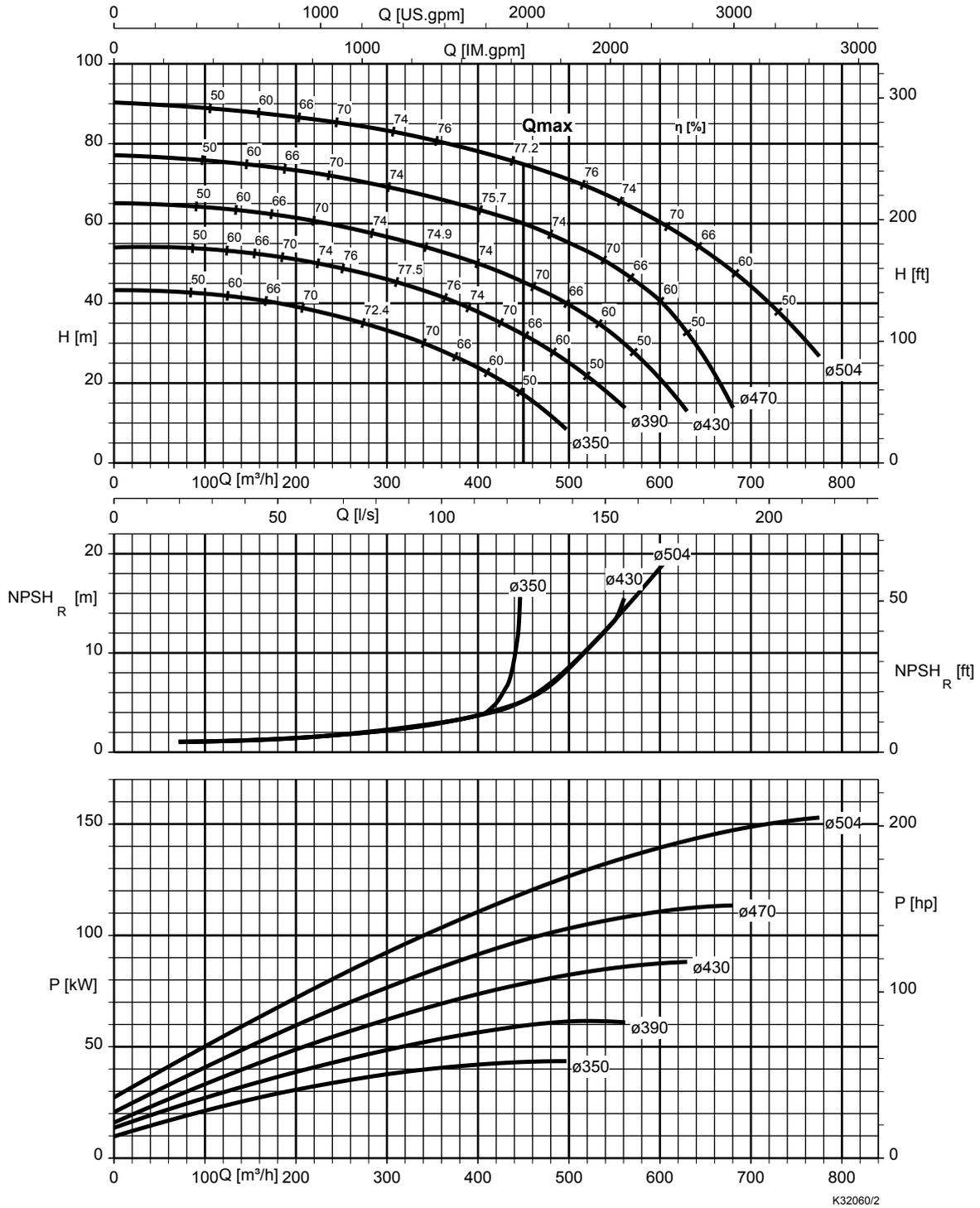


K23745/2

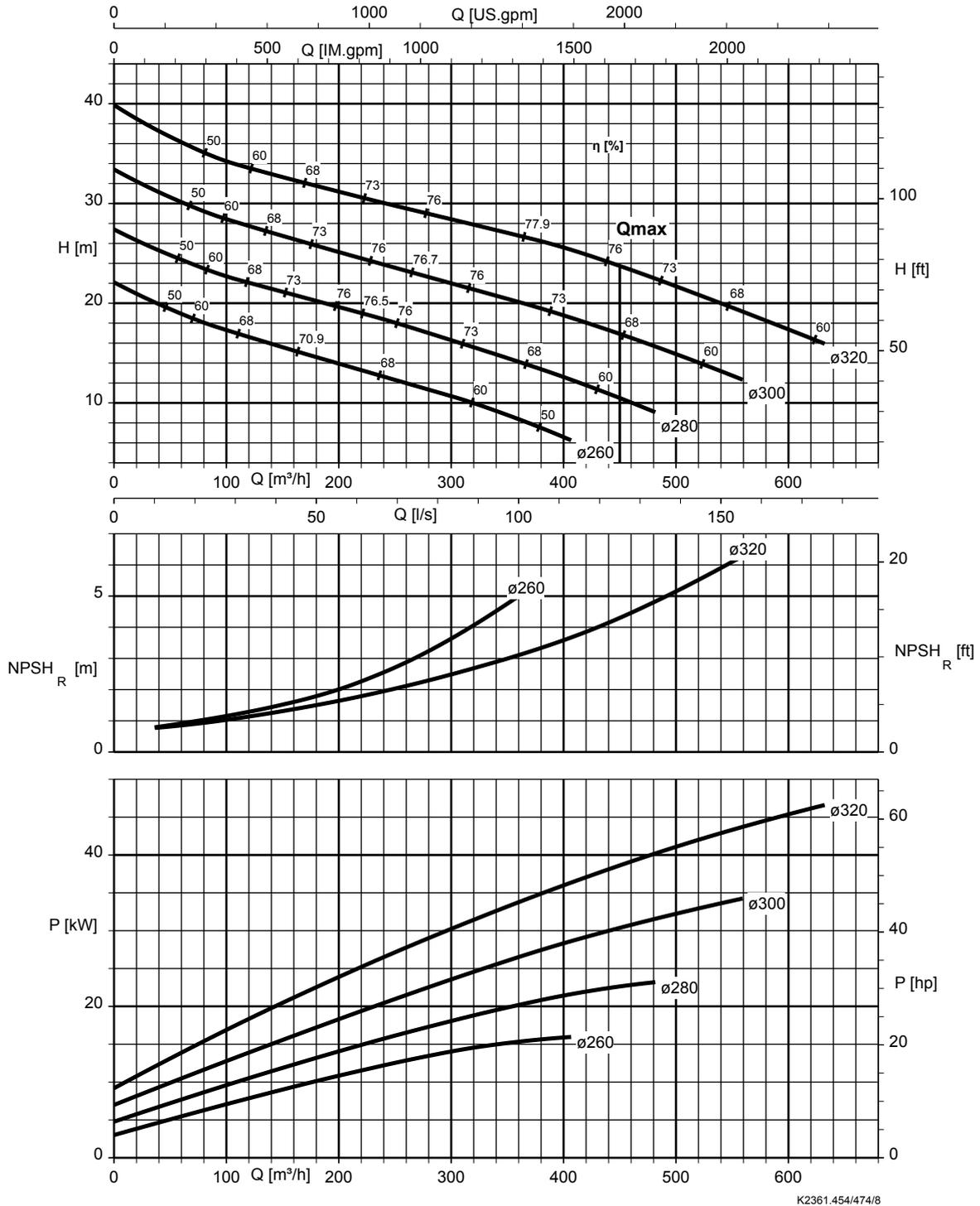
KWP K 150-125-500, n = 1450 rpm



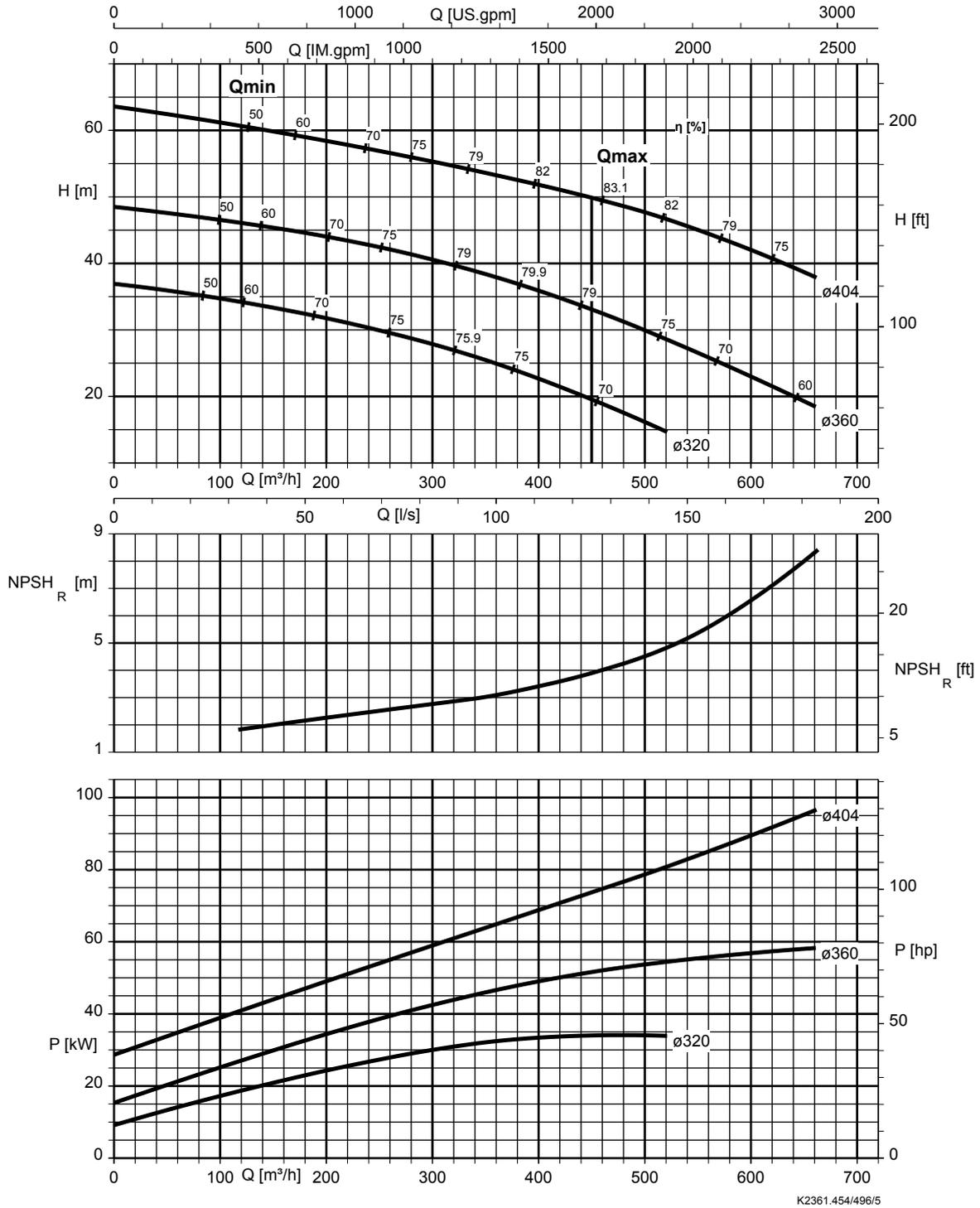
KWP K 150-125-503, n = 1450 rpm



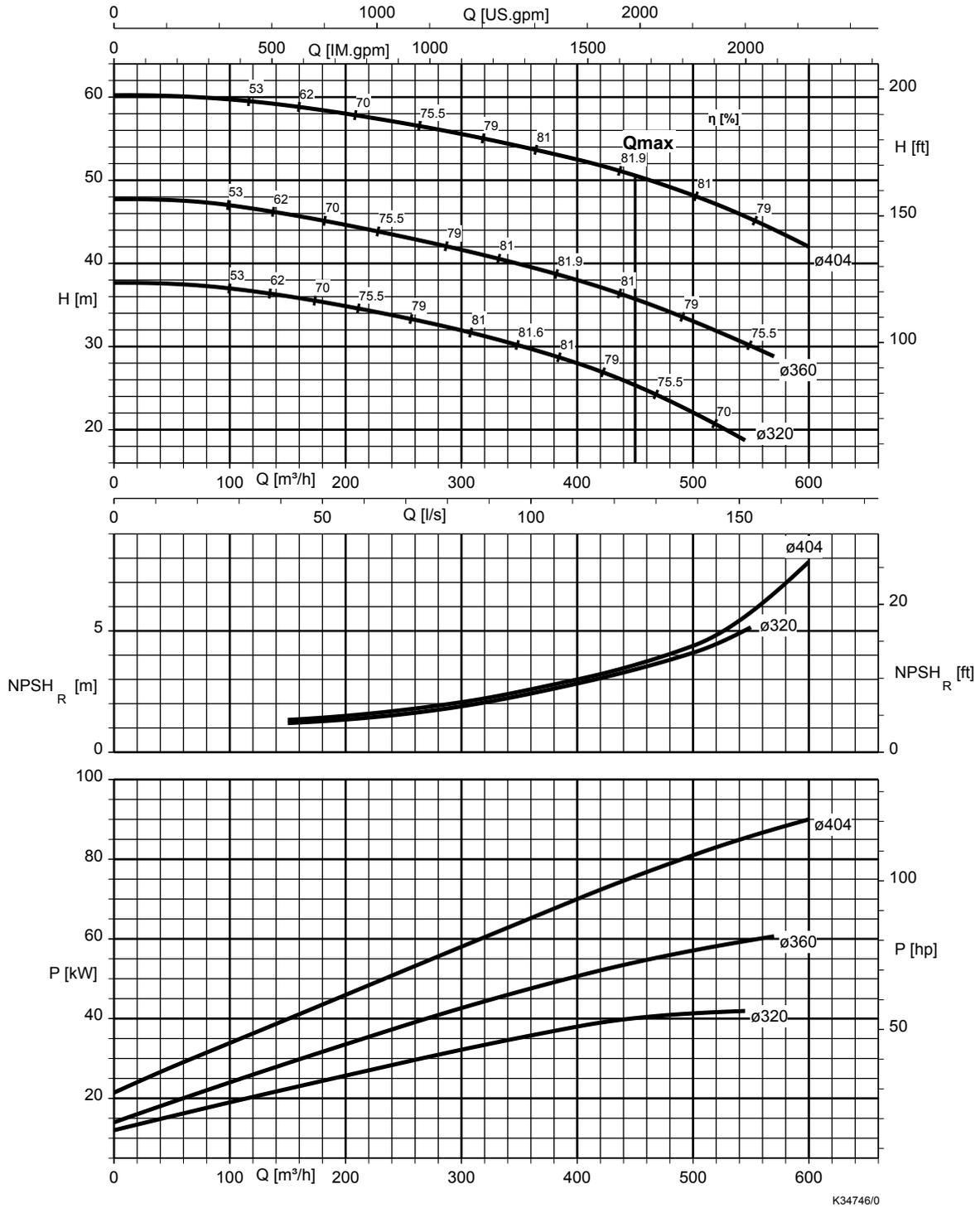
KWP K 150-150-315, n = 1450 rpm



KWP K 150-150-400, n = 1450 rpm

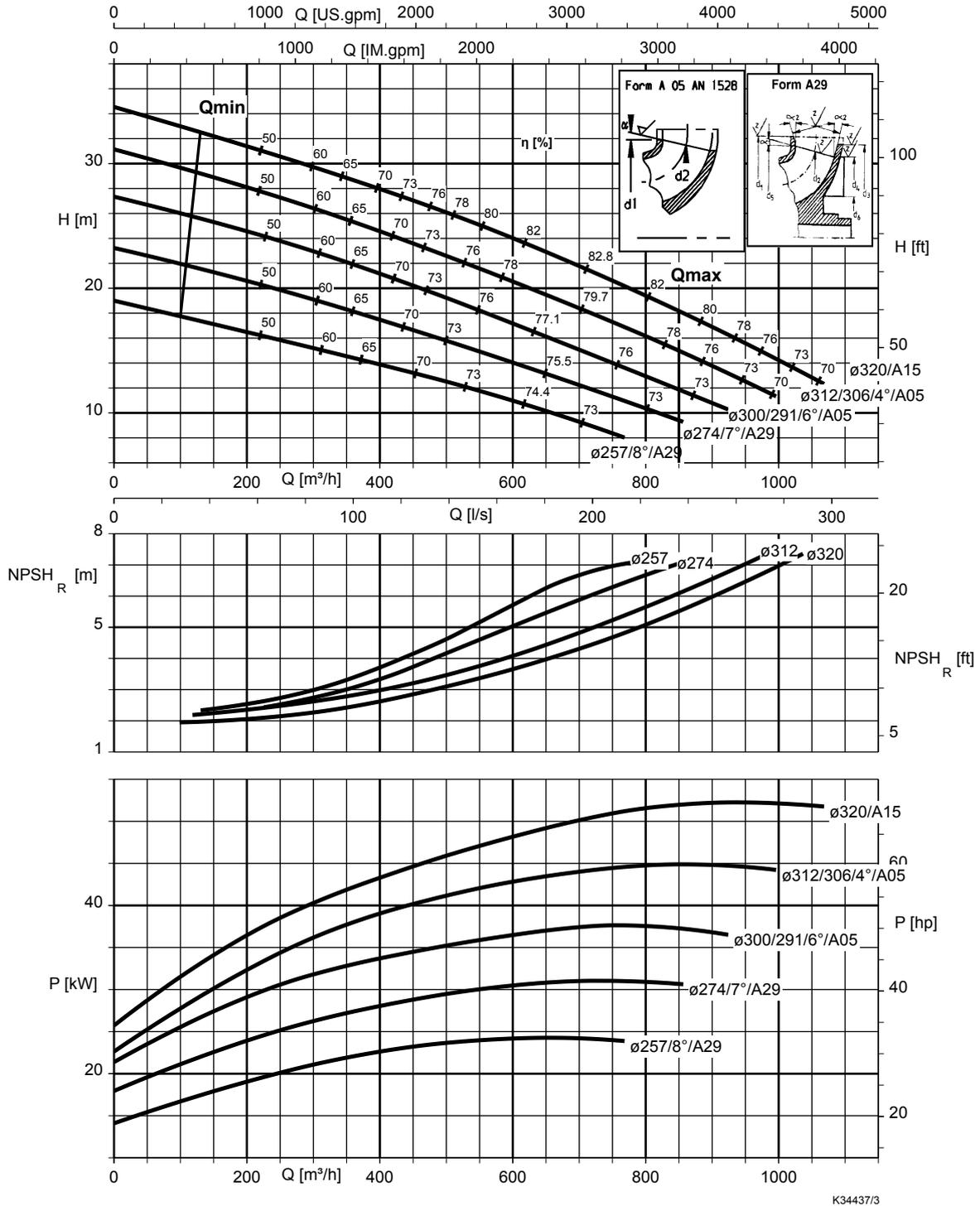


KWP K 150-150-403, n = 1450 rpm

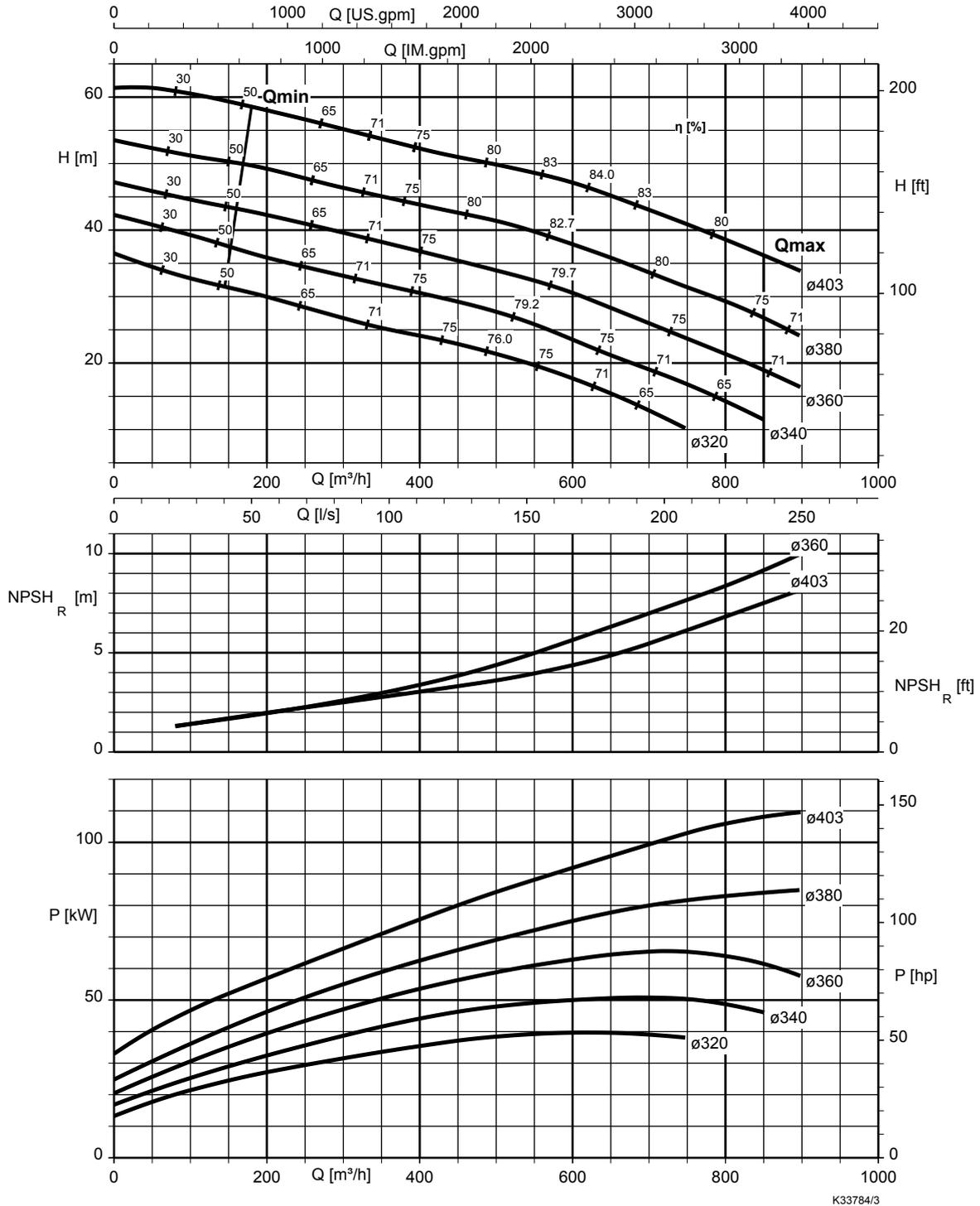


K34746/0

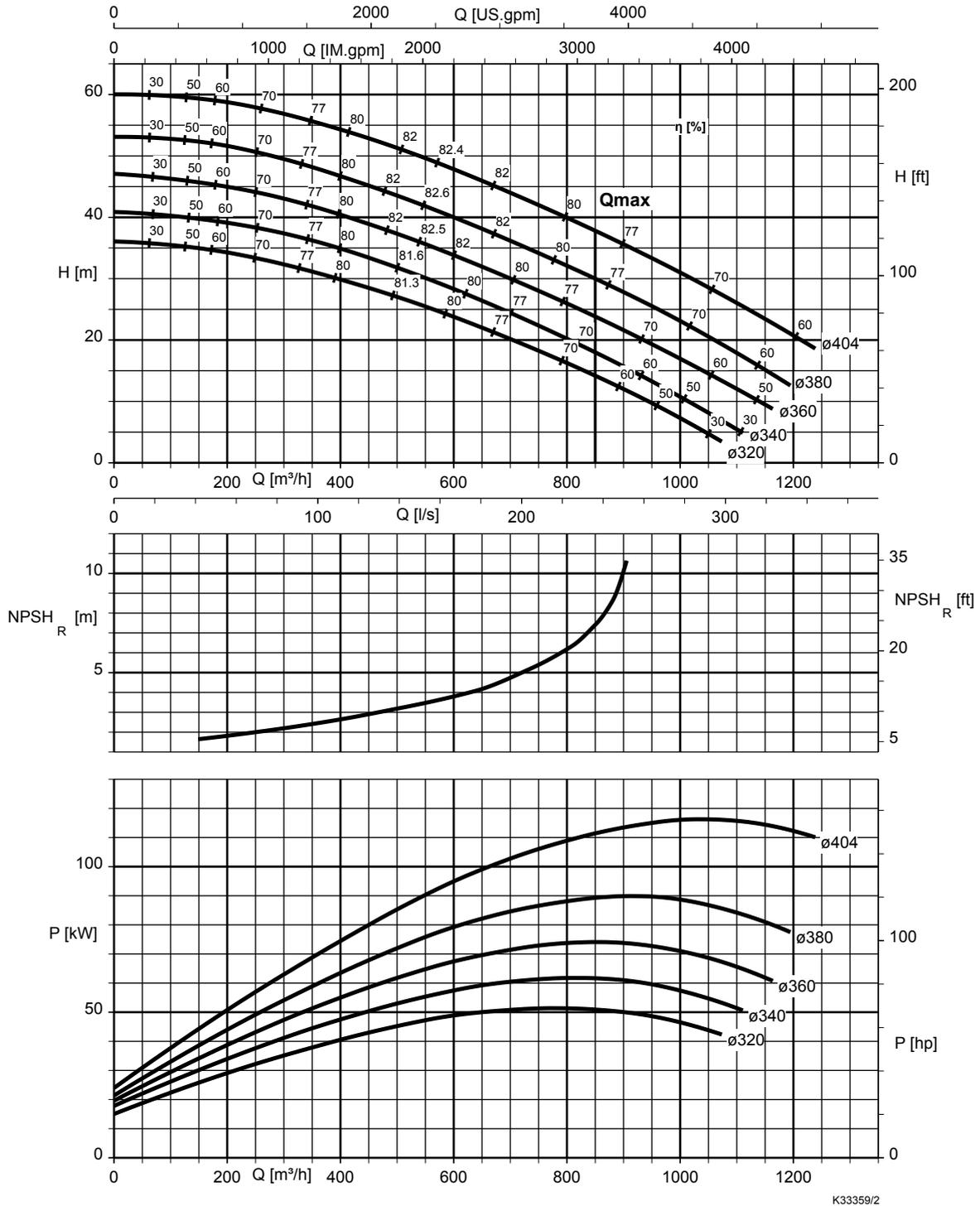
KWP K 200-200-320, n = 1450 rpm



KWP K 200-200-400, n = 1450 rpm

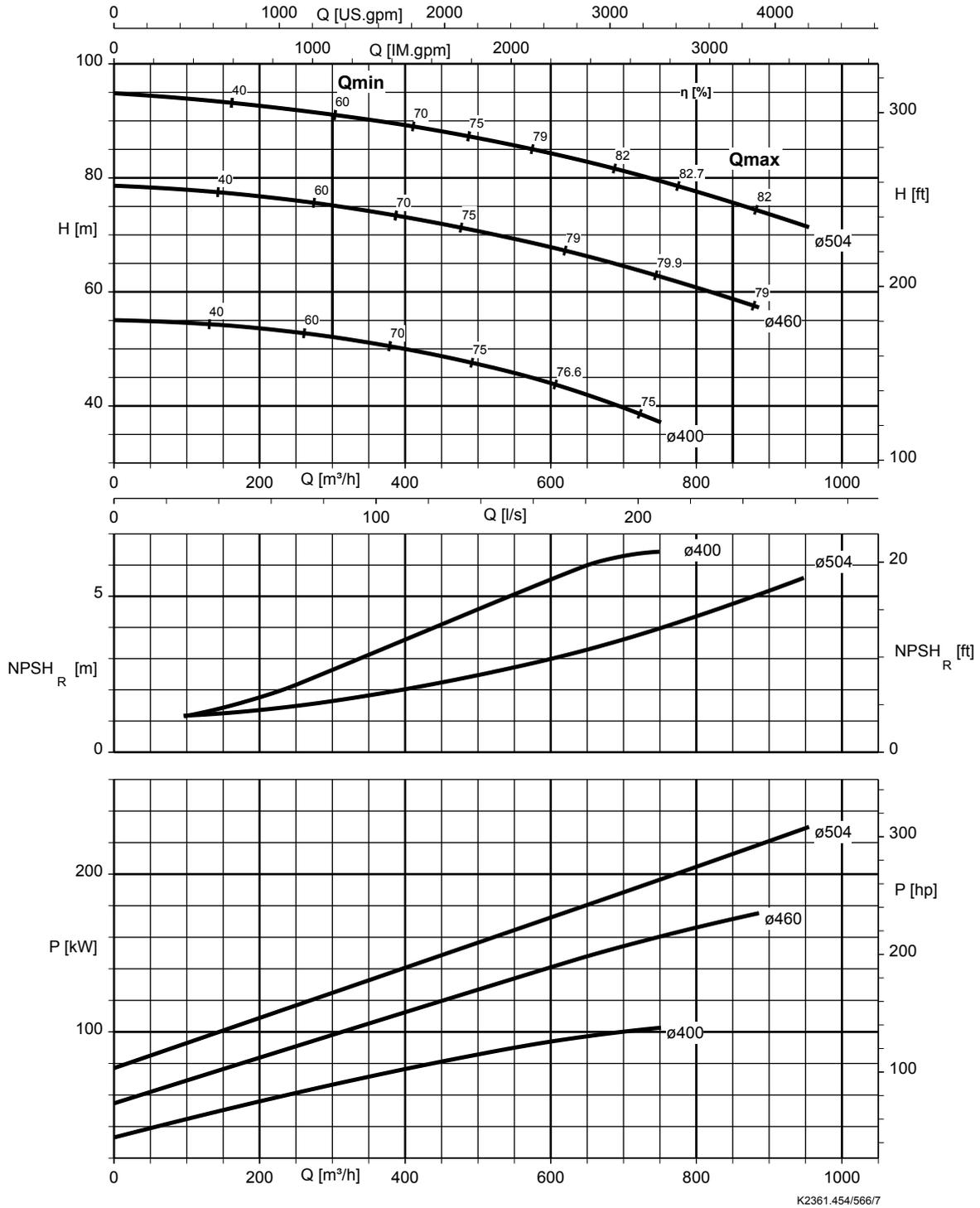


KWP K 200-200-403, n = 1450 rpm

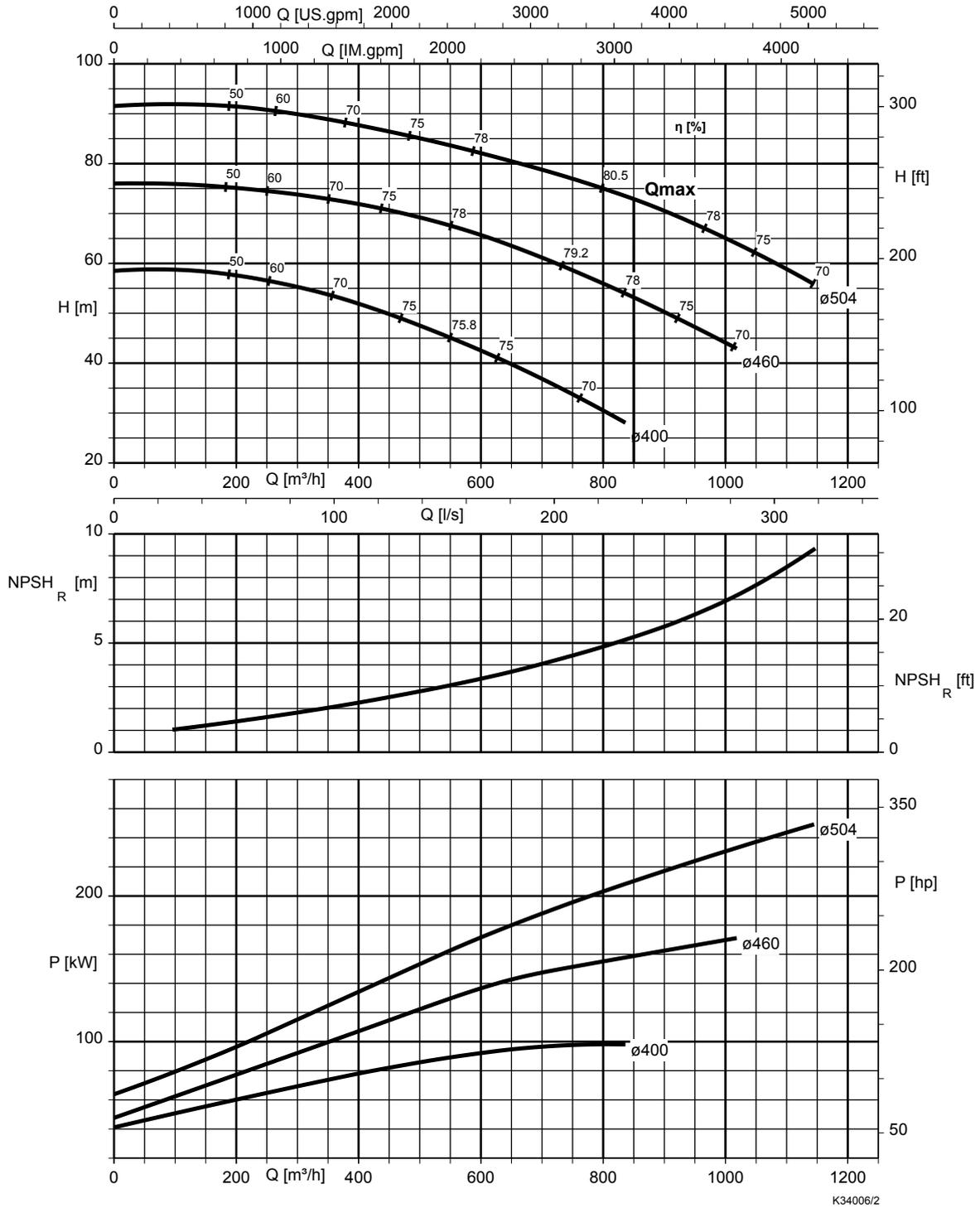


K33359/2

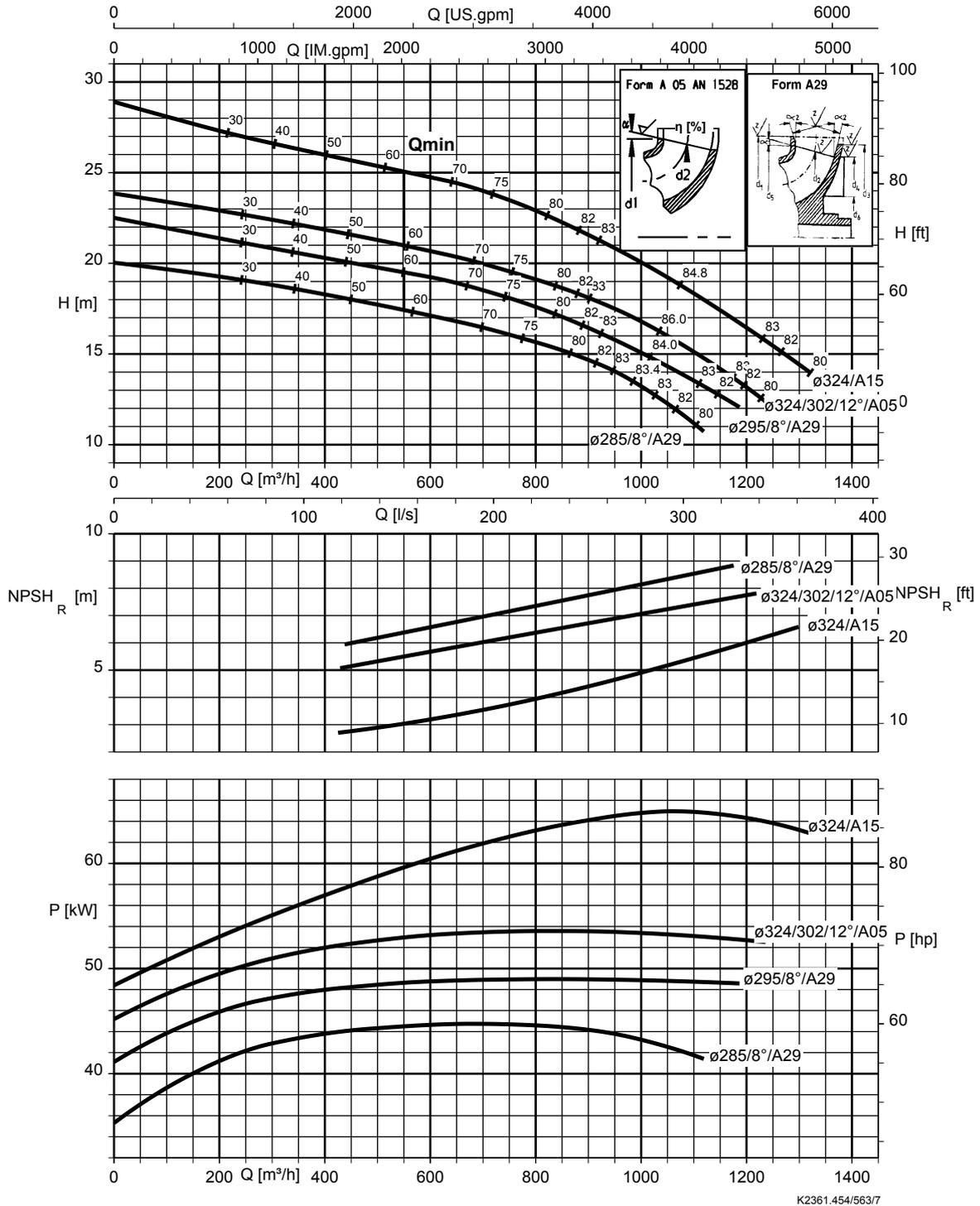
KWP K 200-200-500, n = 1450 rpm



KWP K 200-200-503, n = 1450 rpm

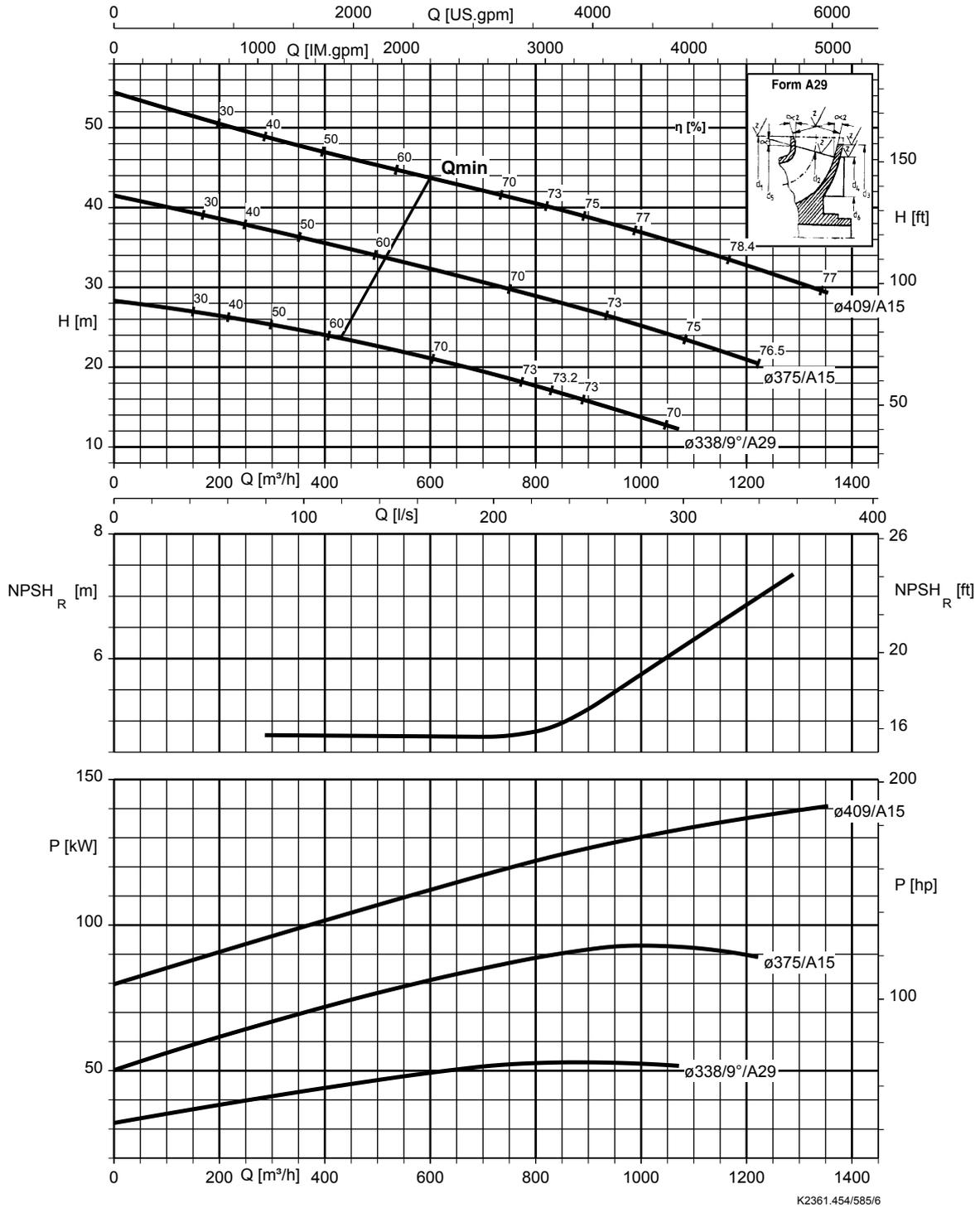


KWP K 250-250-315, n = 1450 rpm

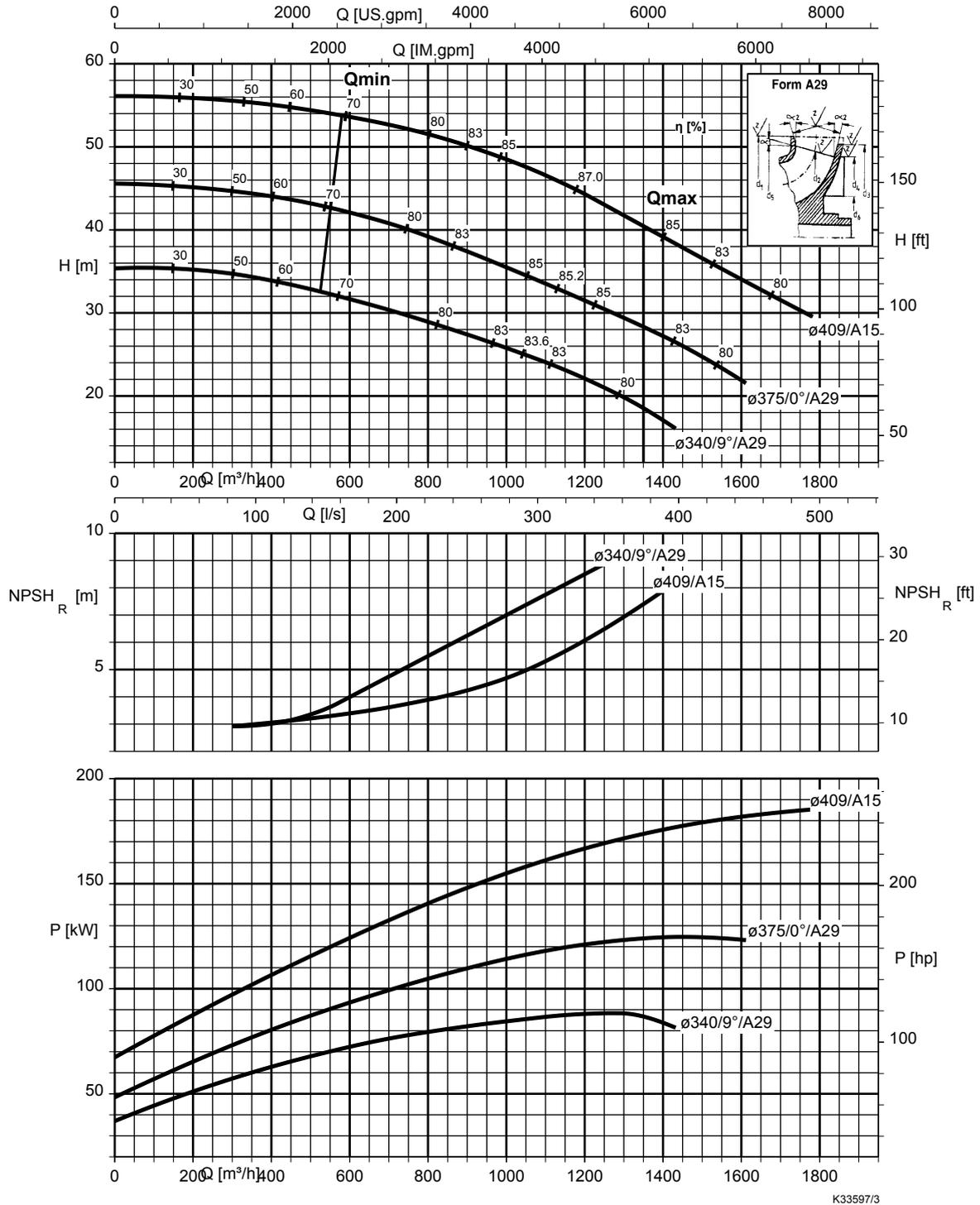


K2361.454/563/7

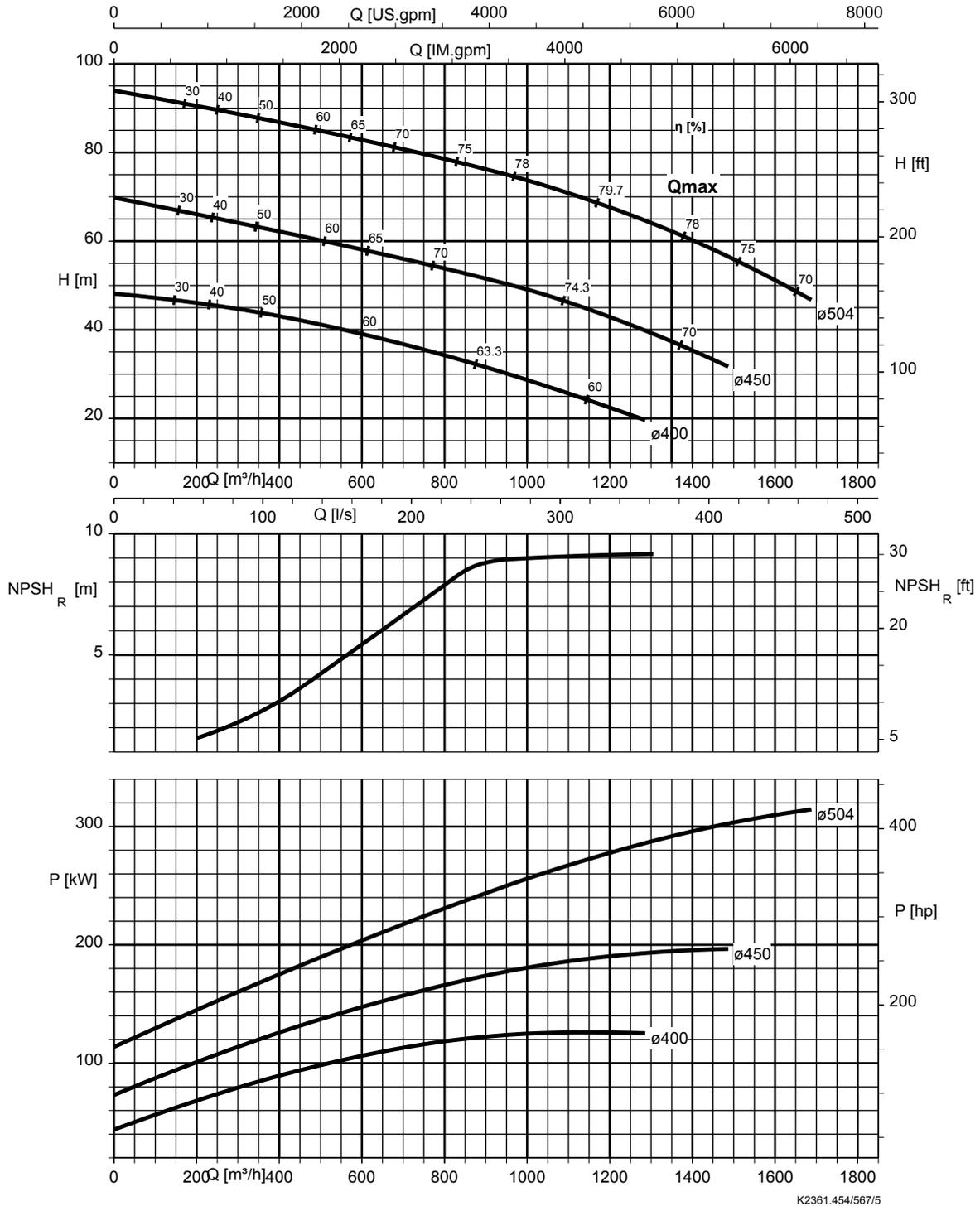
KWP K 250-250-400, n = 1450 rpm



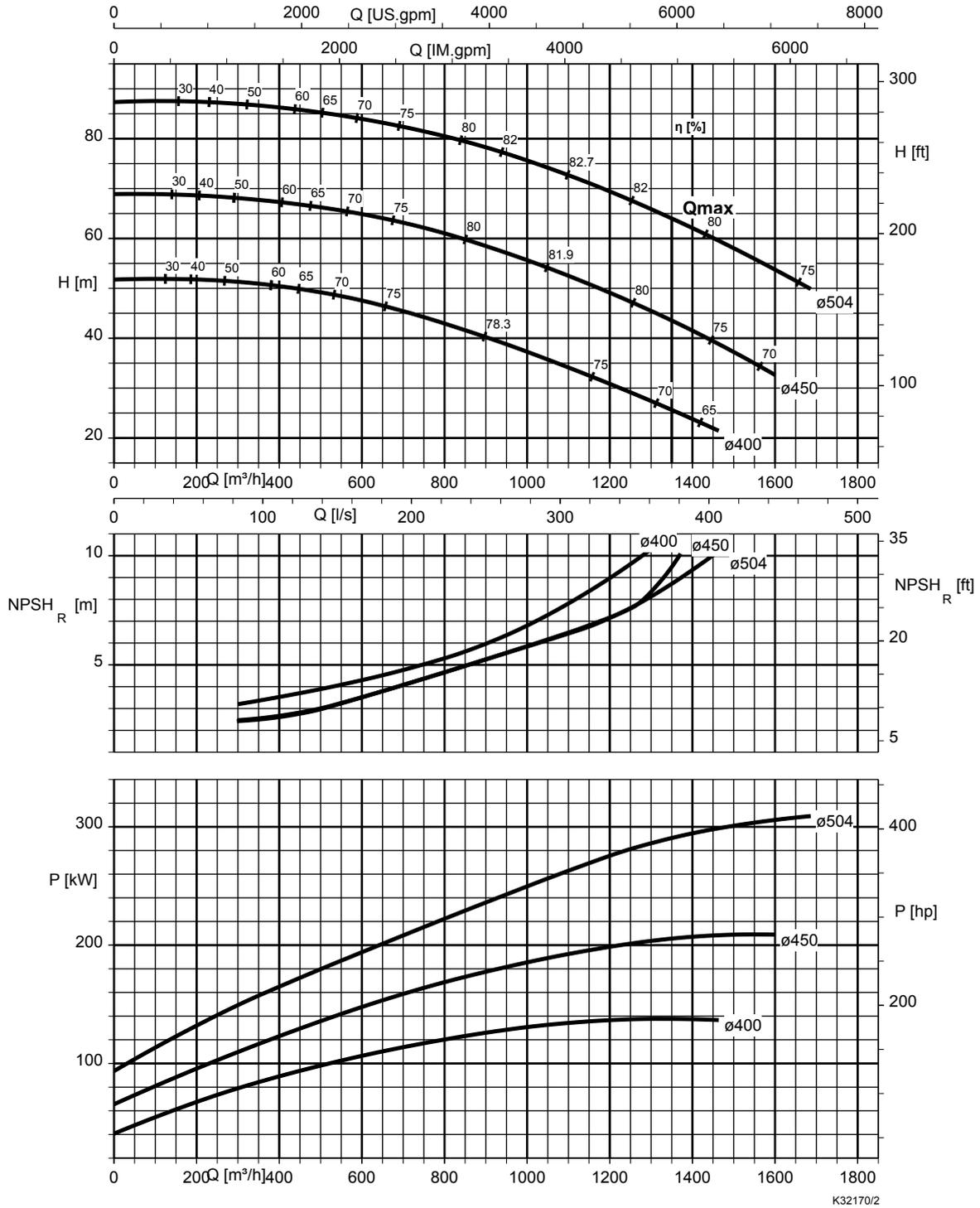
KWP K 250-250-403, n = 1450 rpm



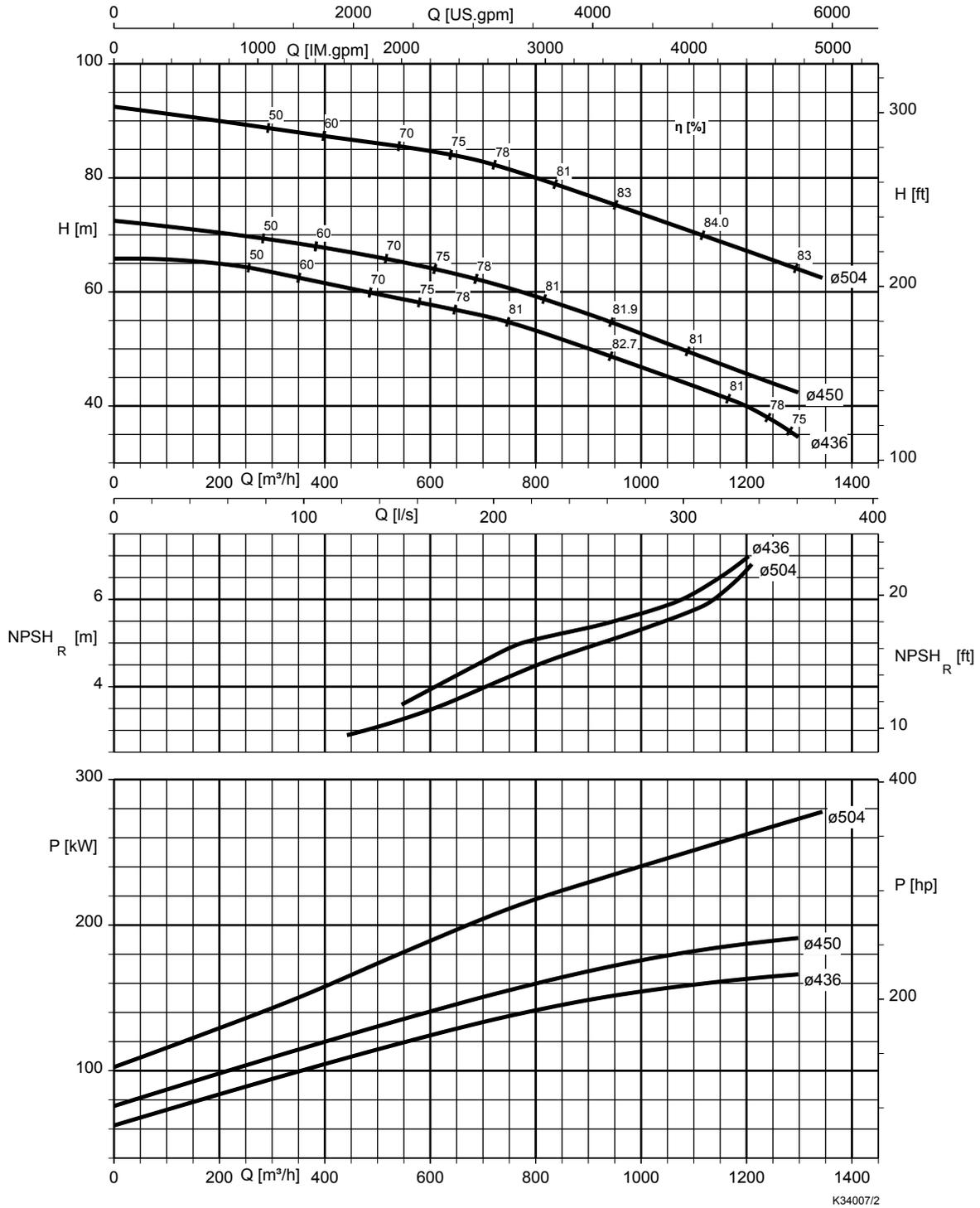
KWP K 250-250-500, n = 1450 rpm



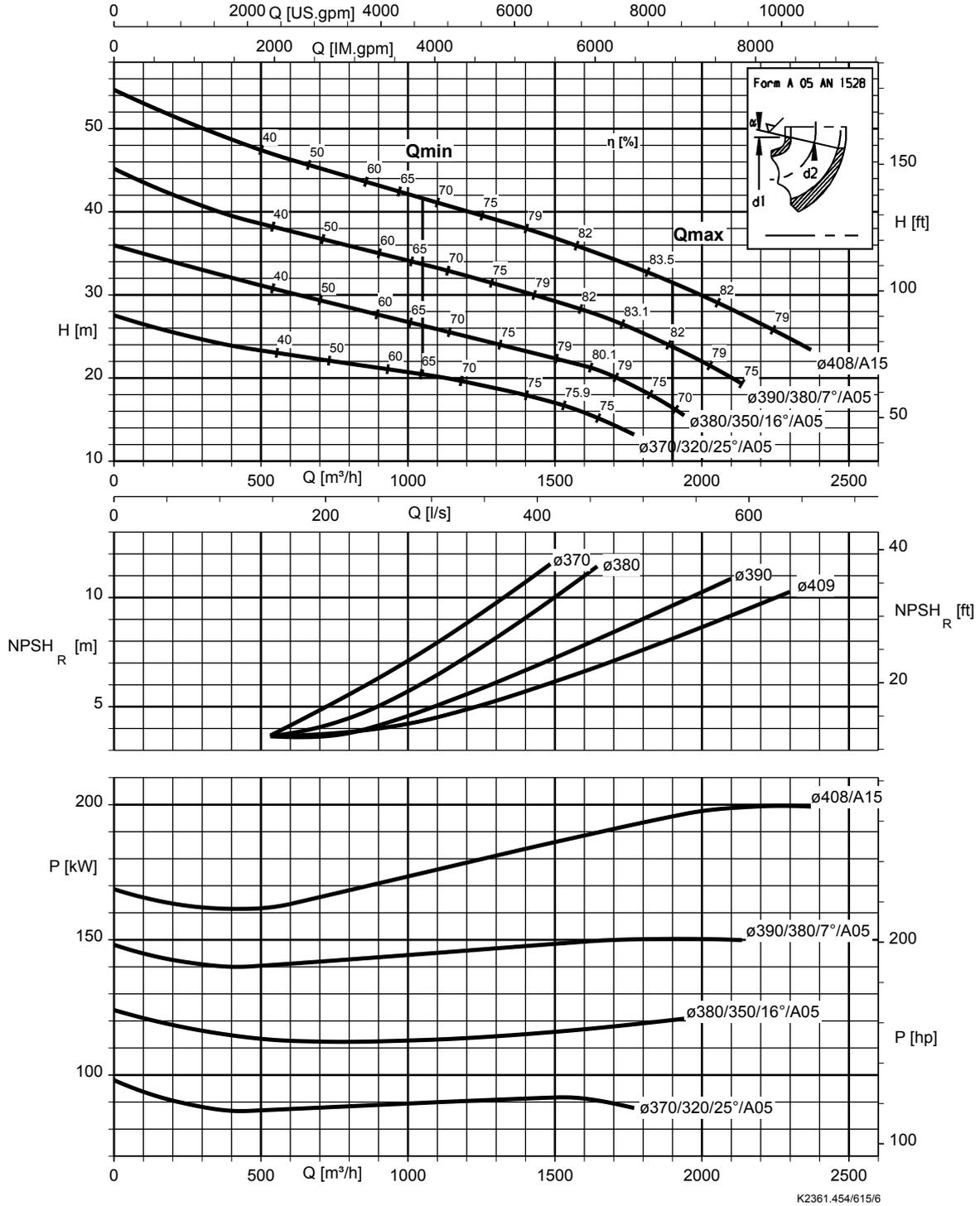
KWP K 250-250-503, n = 1450 rpm



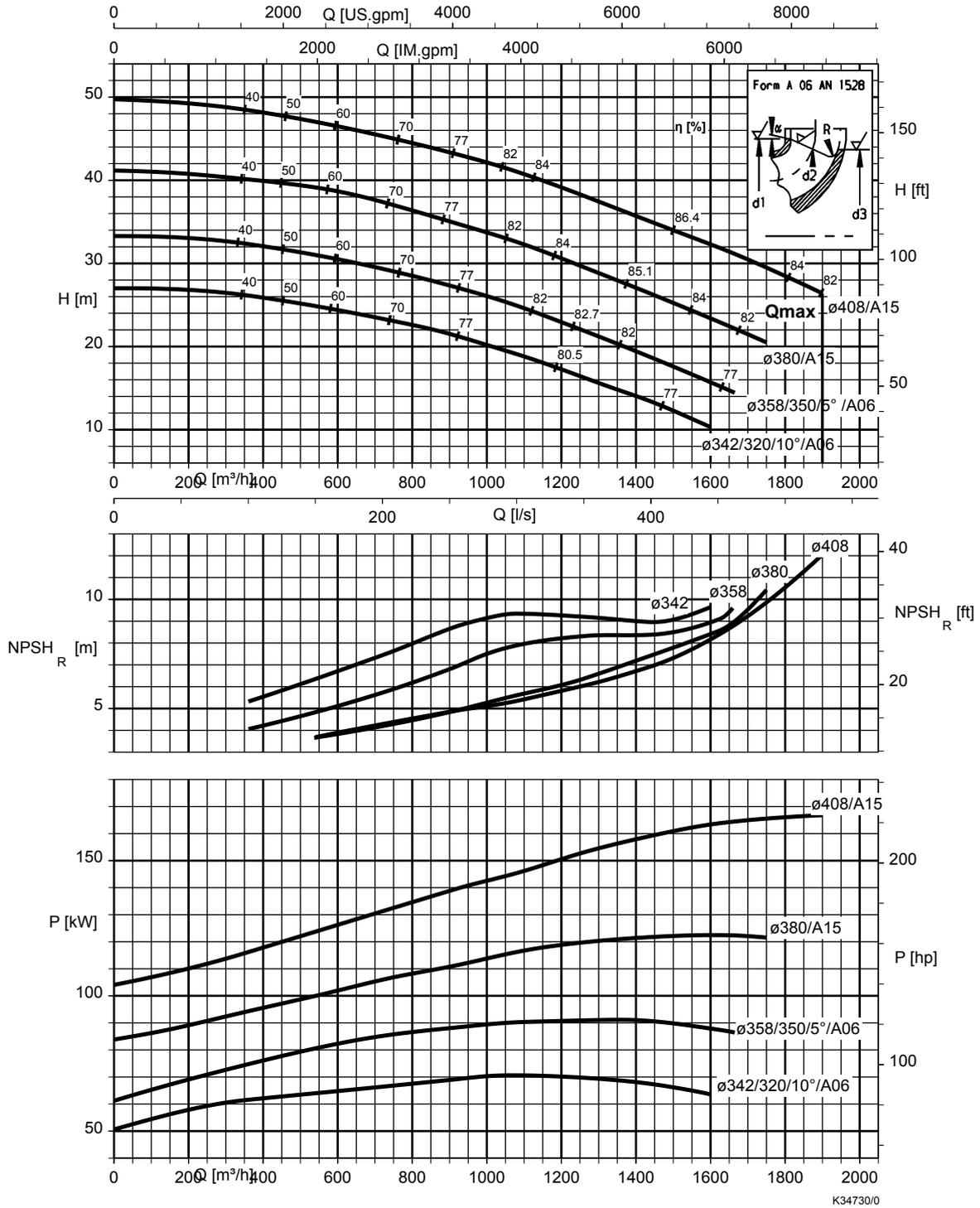
KWP K 250-250-505, n = 1450 rpm



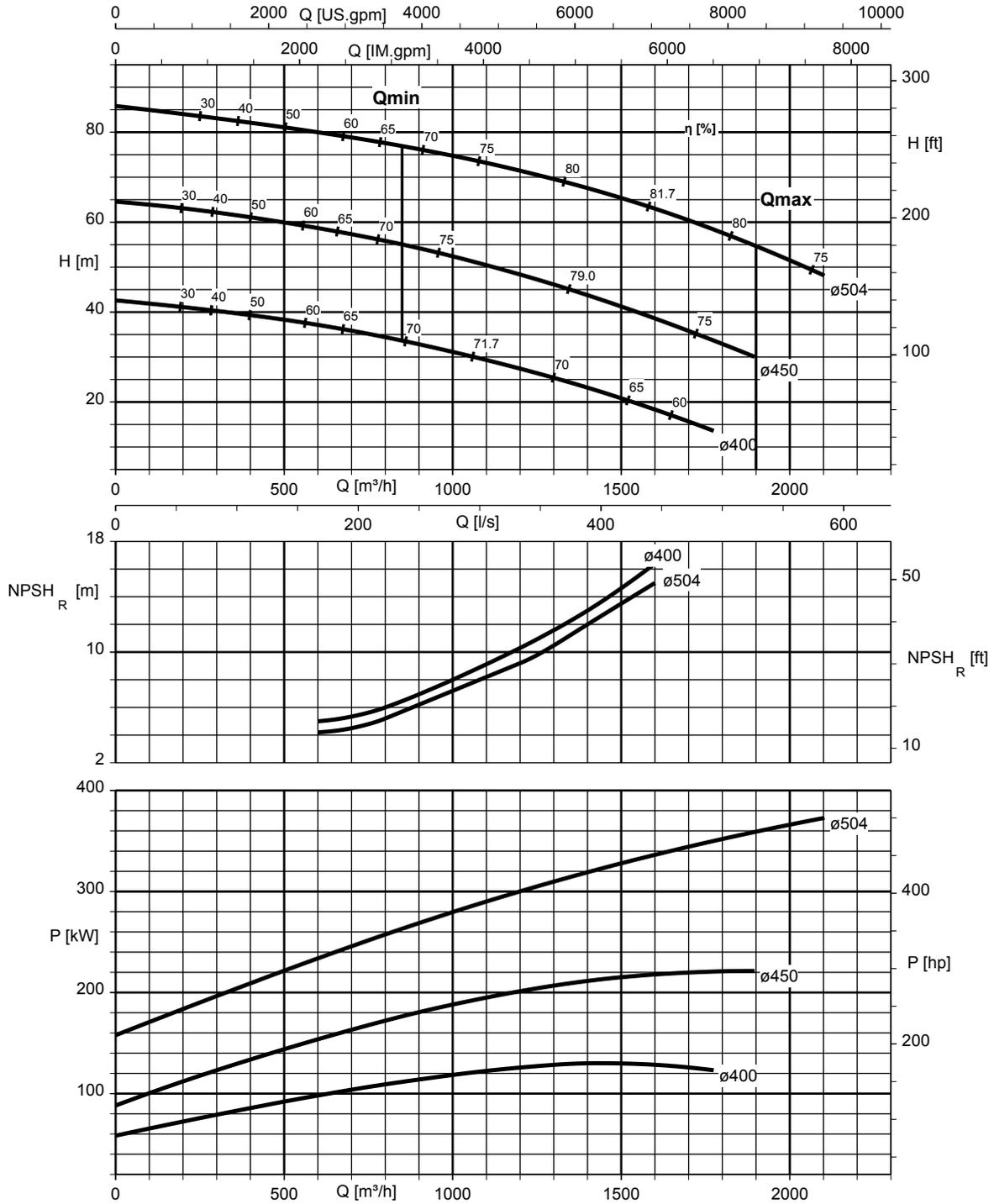
KWP K 300-300-400, n = 1450 rpm



KWP K 300-300-401, n = 1450 rpm

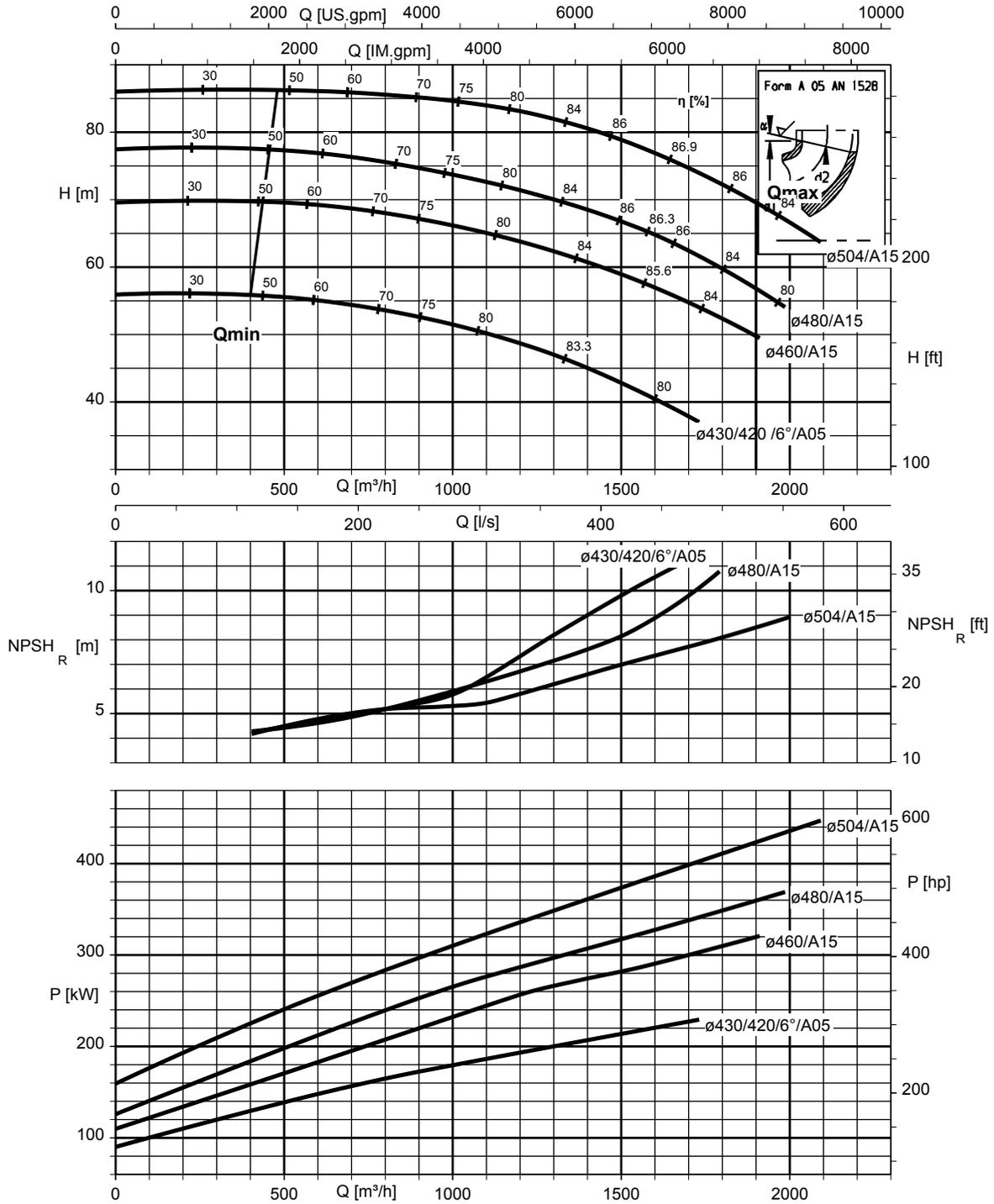


KWP K 300-300-500, n = 1450 rpm



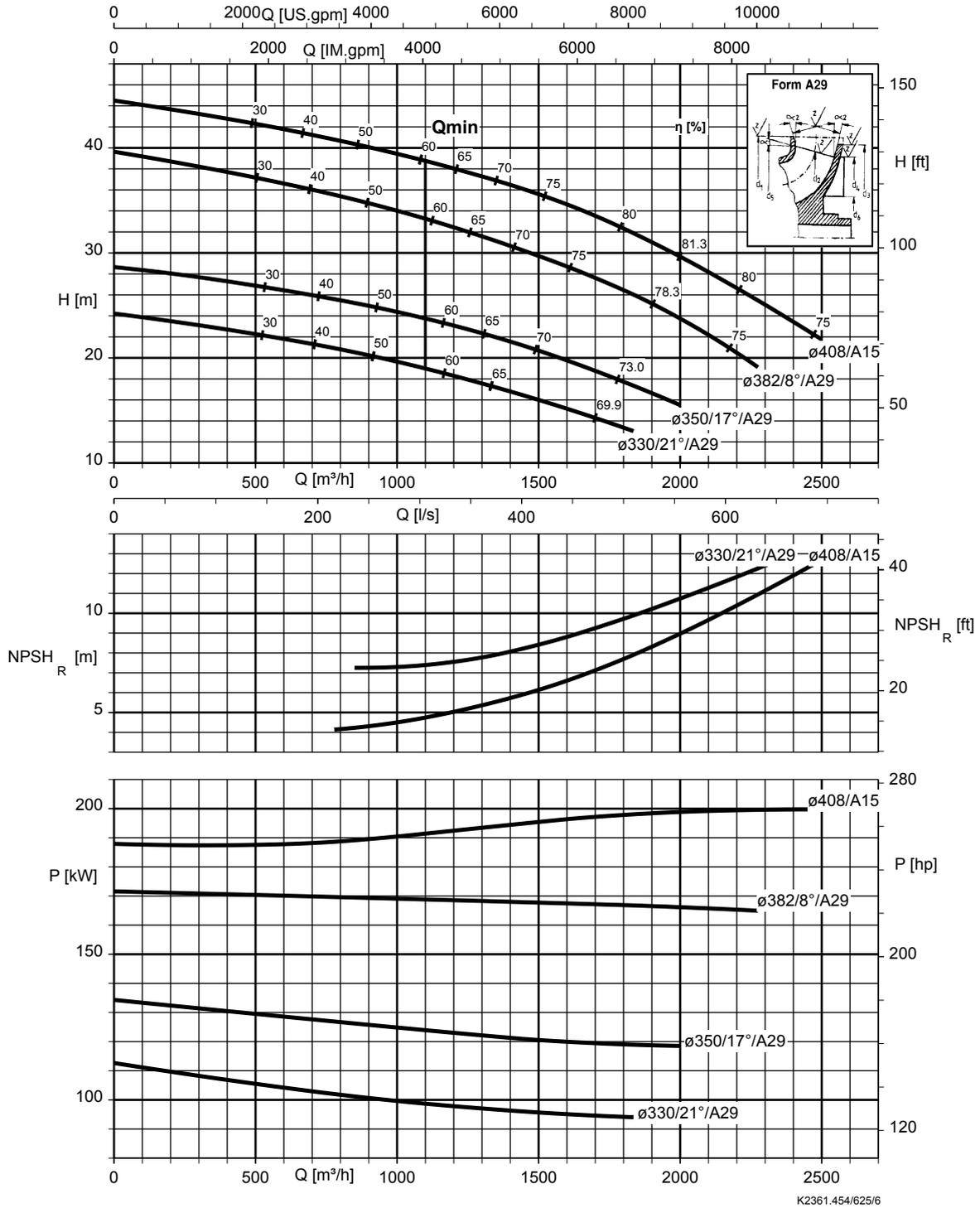
K2361.454/597/6

KWP K 300-300-503, n = 1450 rpm



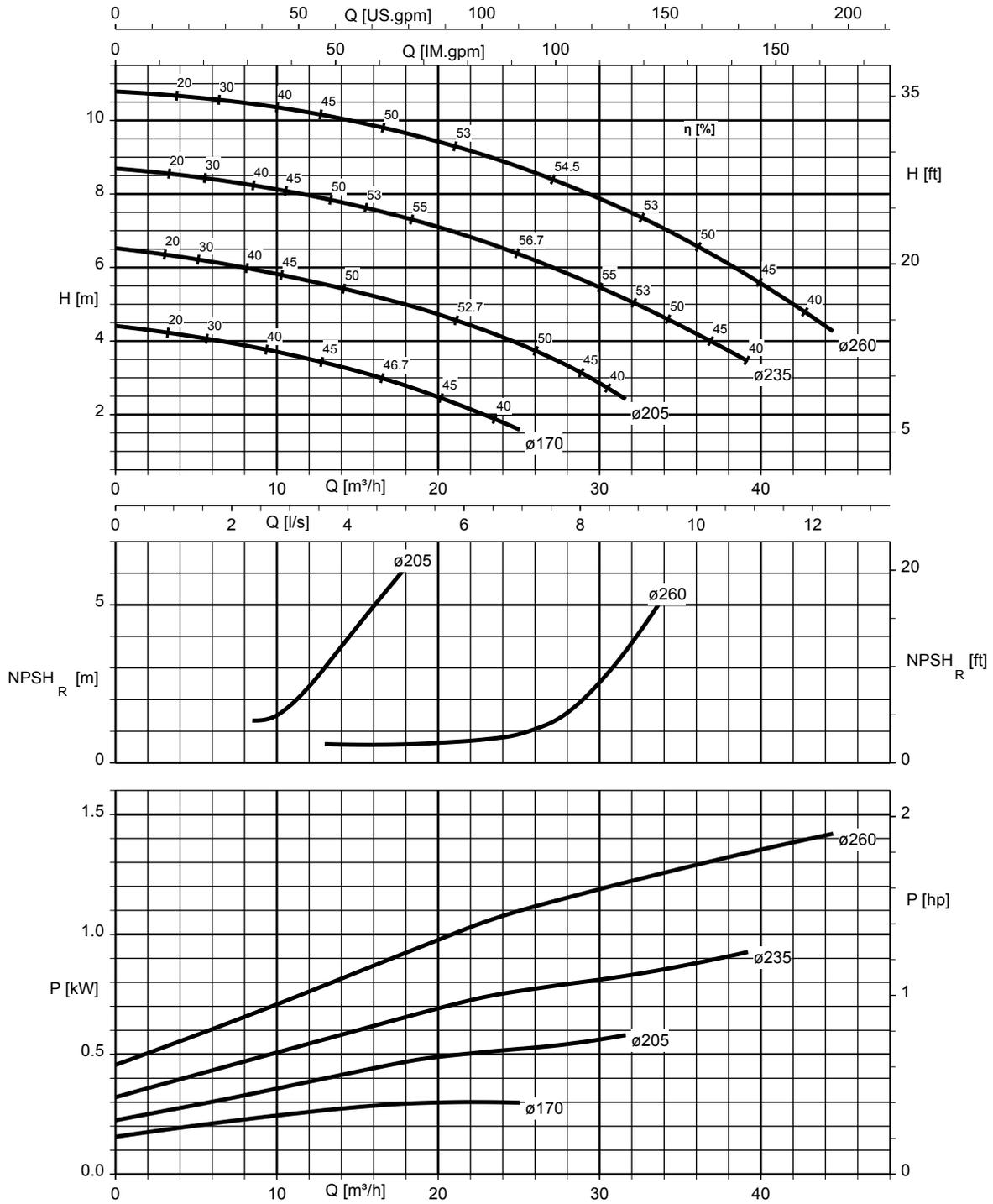
K33759/2

KWP K 350-350-400, n = 1450 rpm



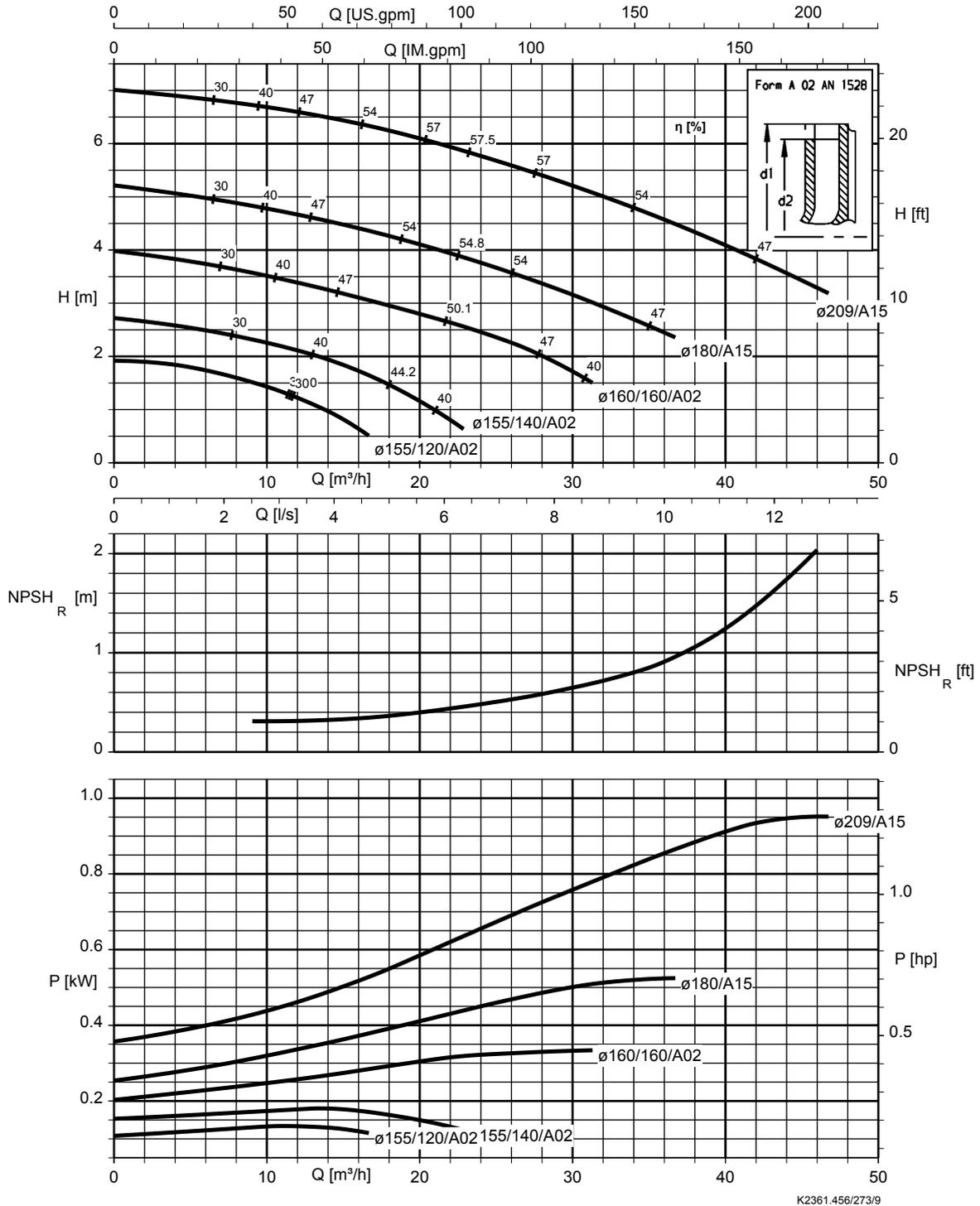
n = 960 rpm

KWP K 065-040-250, n = 960 rpm

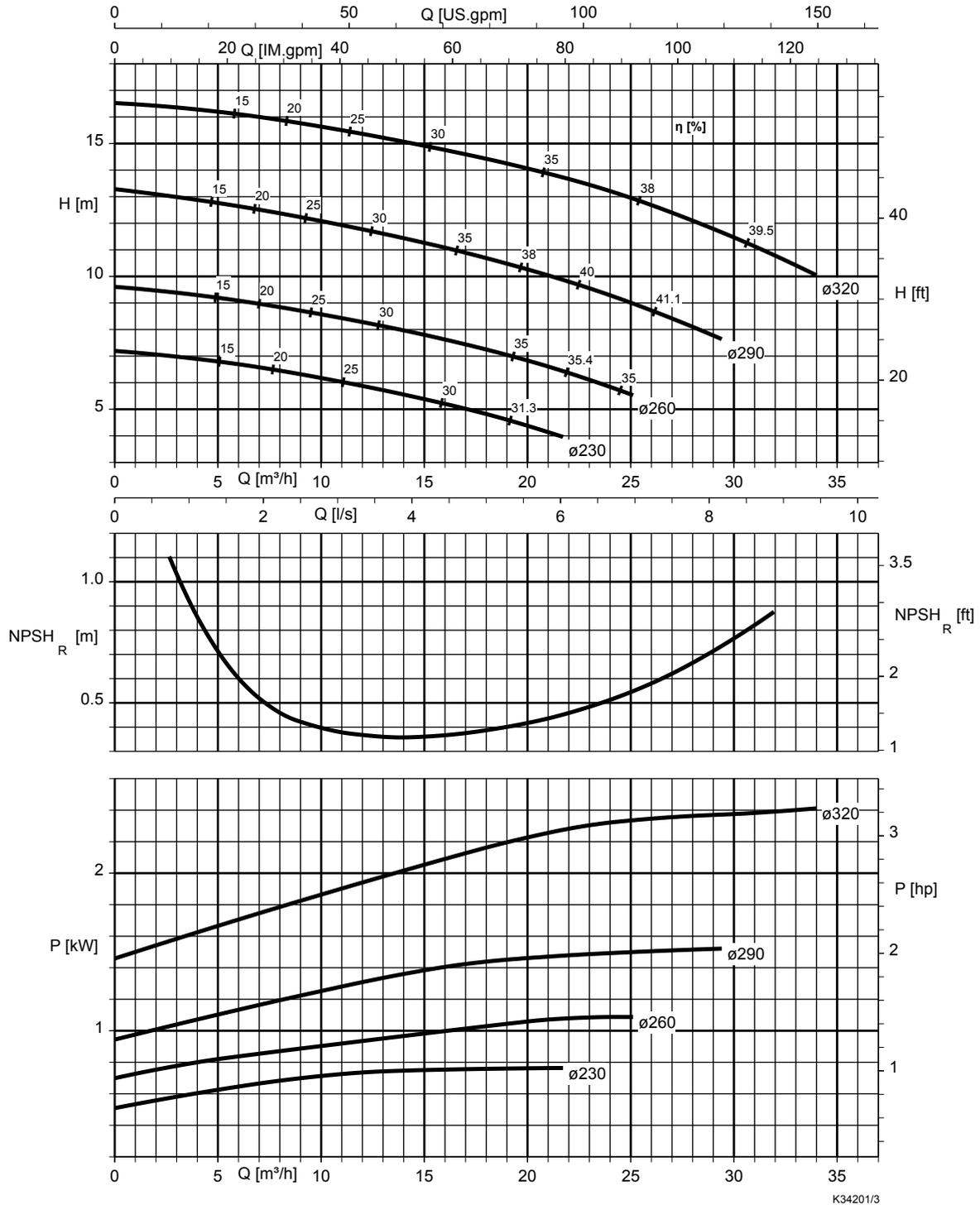


K33892/4

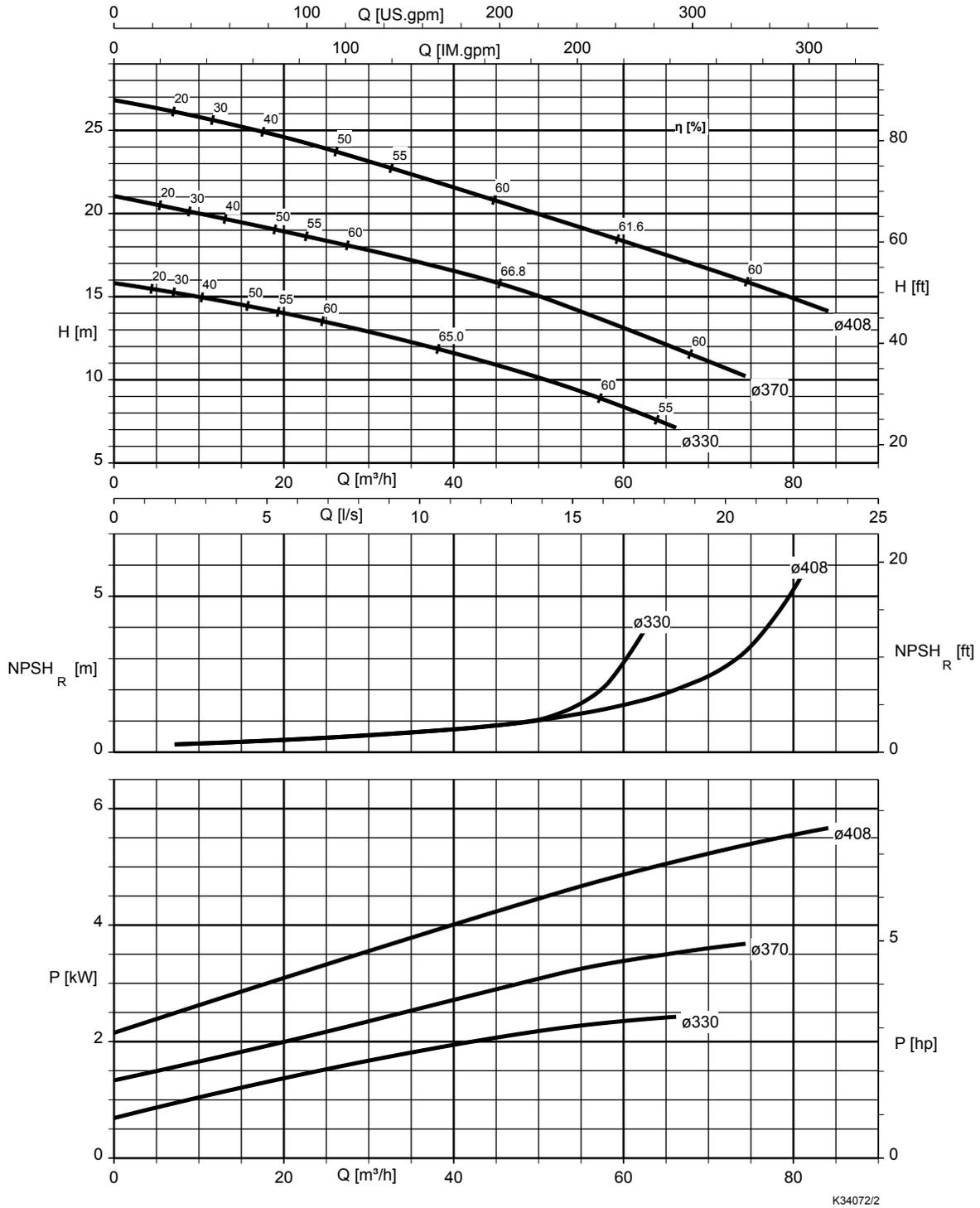
KWP K 065-050-200, n = 960 rpm



KWP K 080-040-315, n = 960 rpm

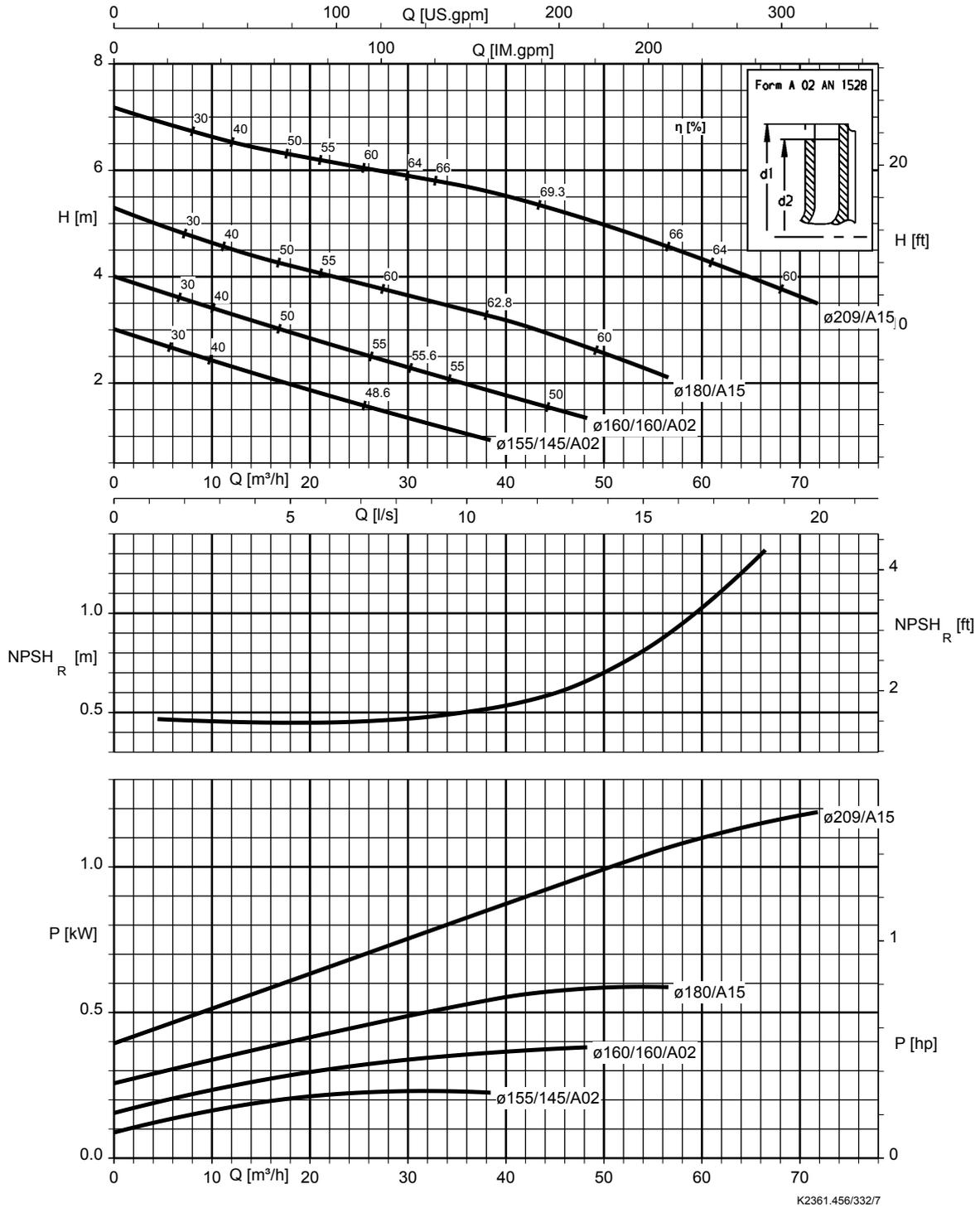


KWP K 080-050-400, n = 960 rpm

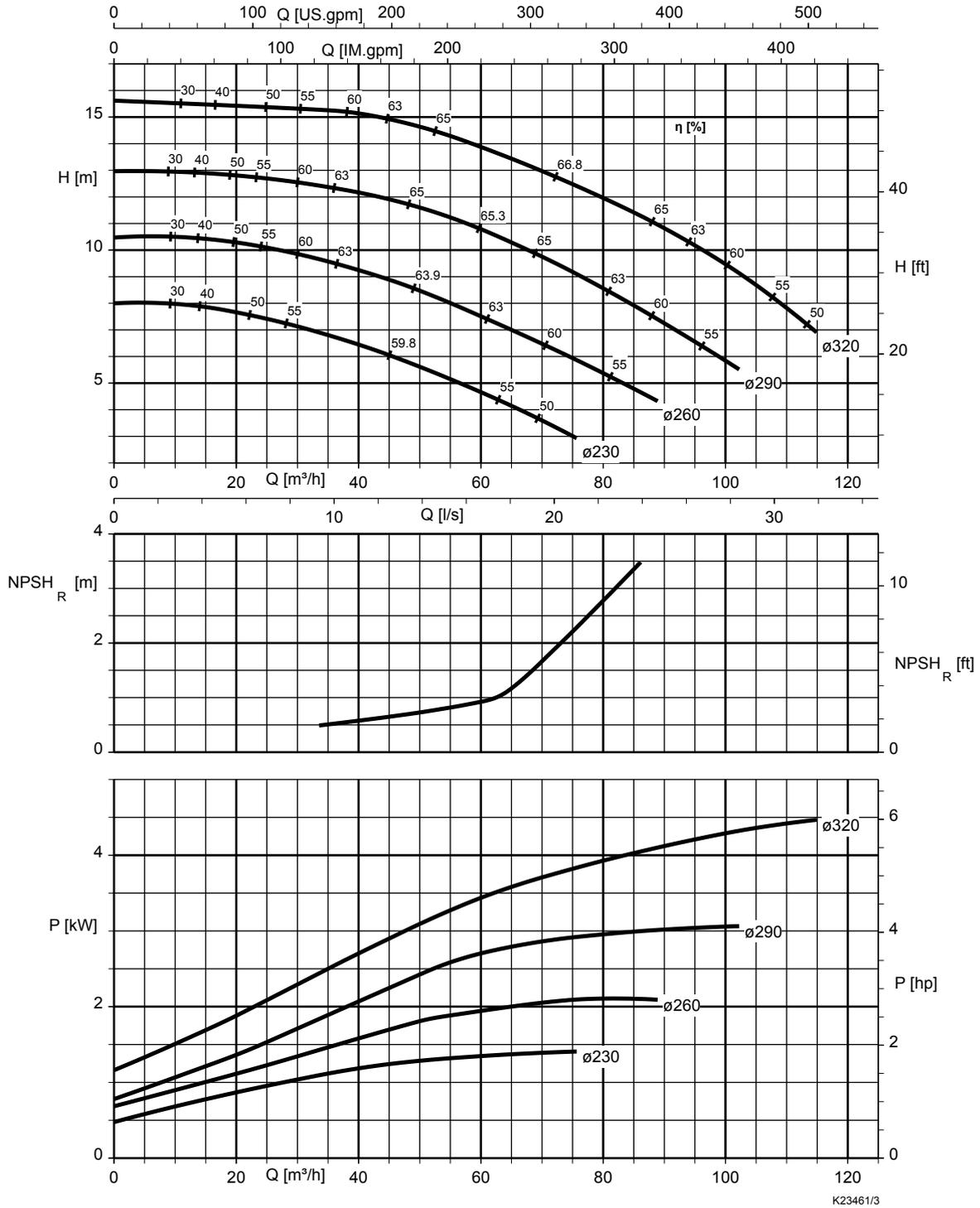


K34072/2

KWP K 080-065-200, n = 960 rpm

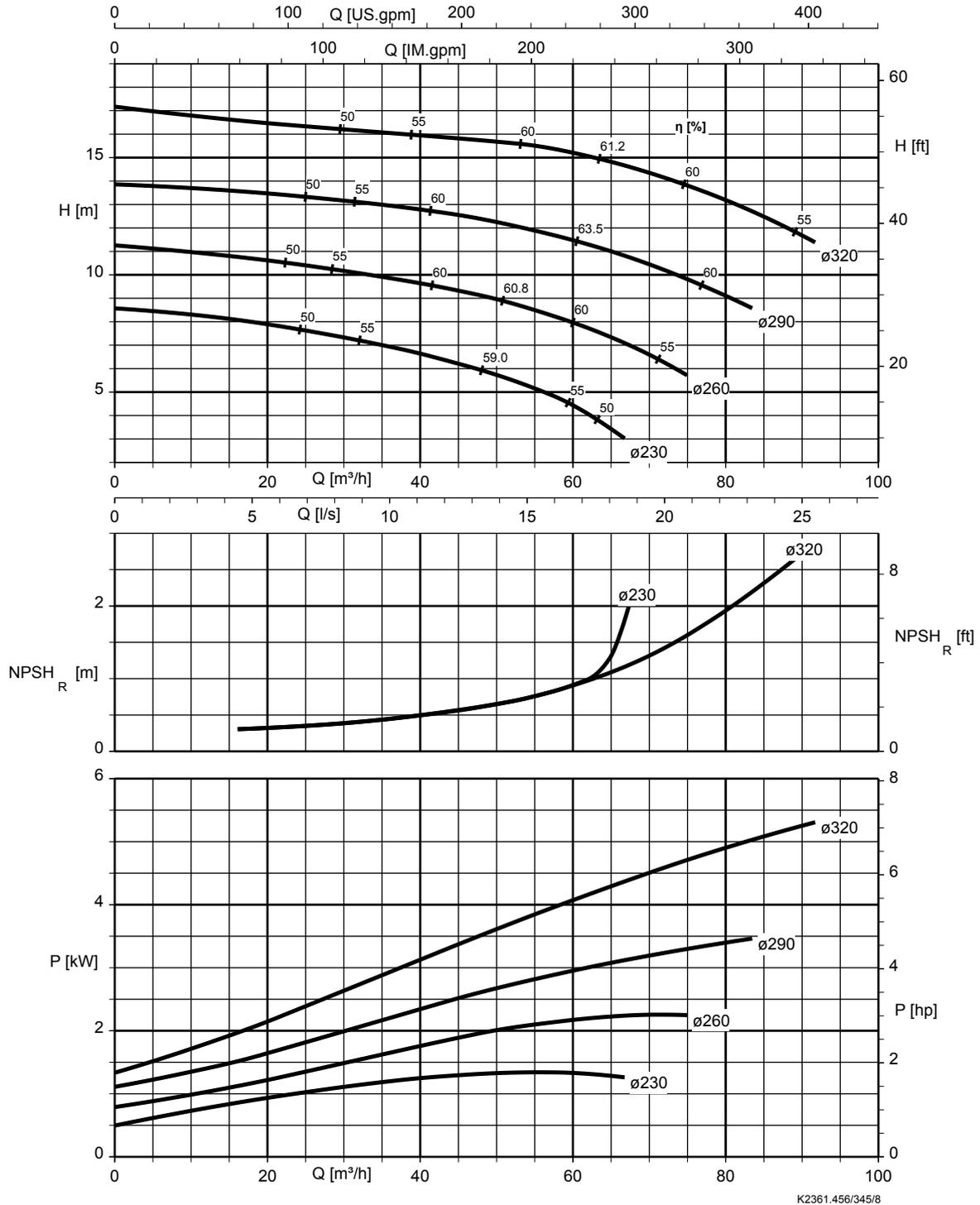


KWP K 080-065-313, n = 960 rpm

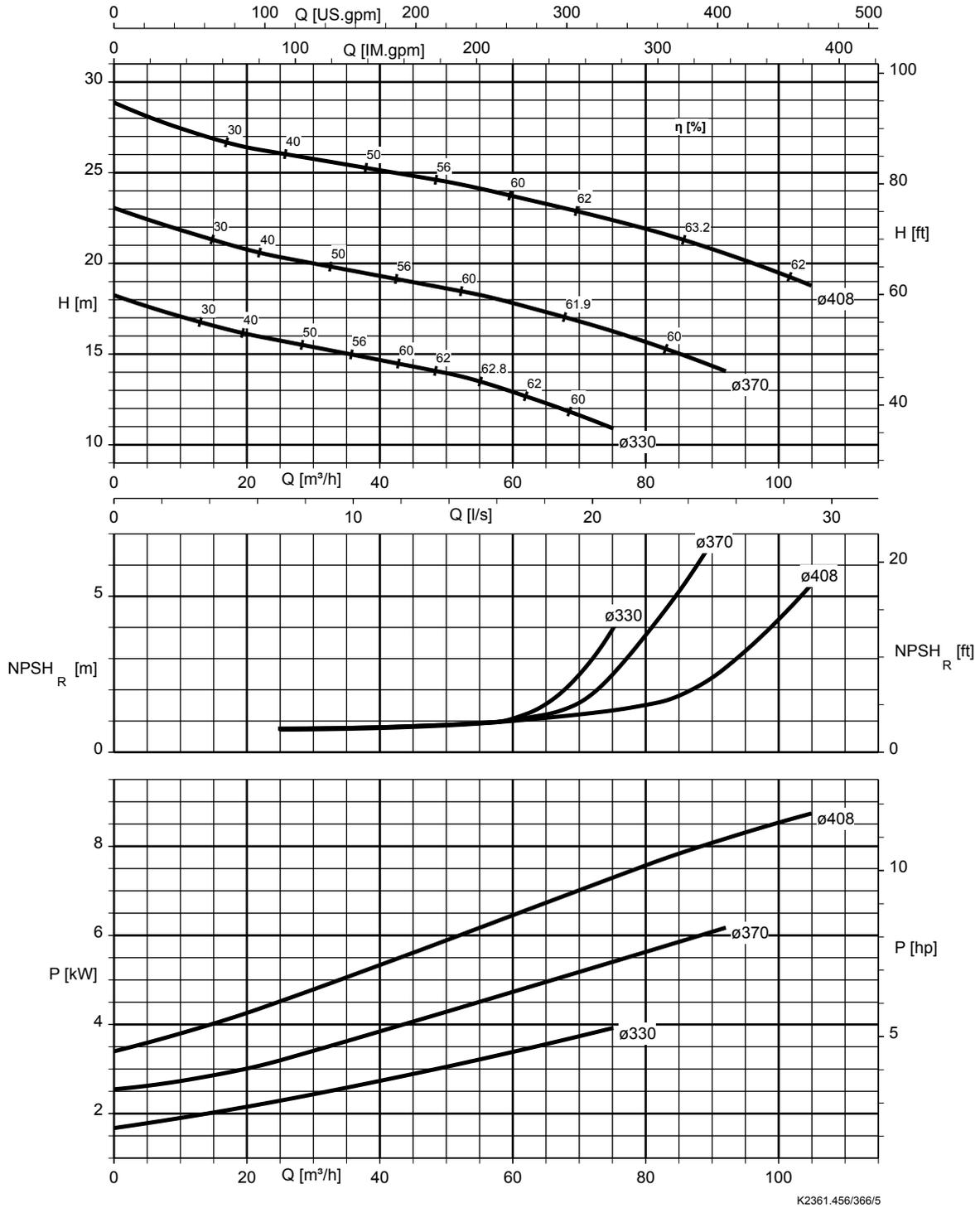


K23461/3

KWP K 080-065-315, n = 960 rpm

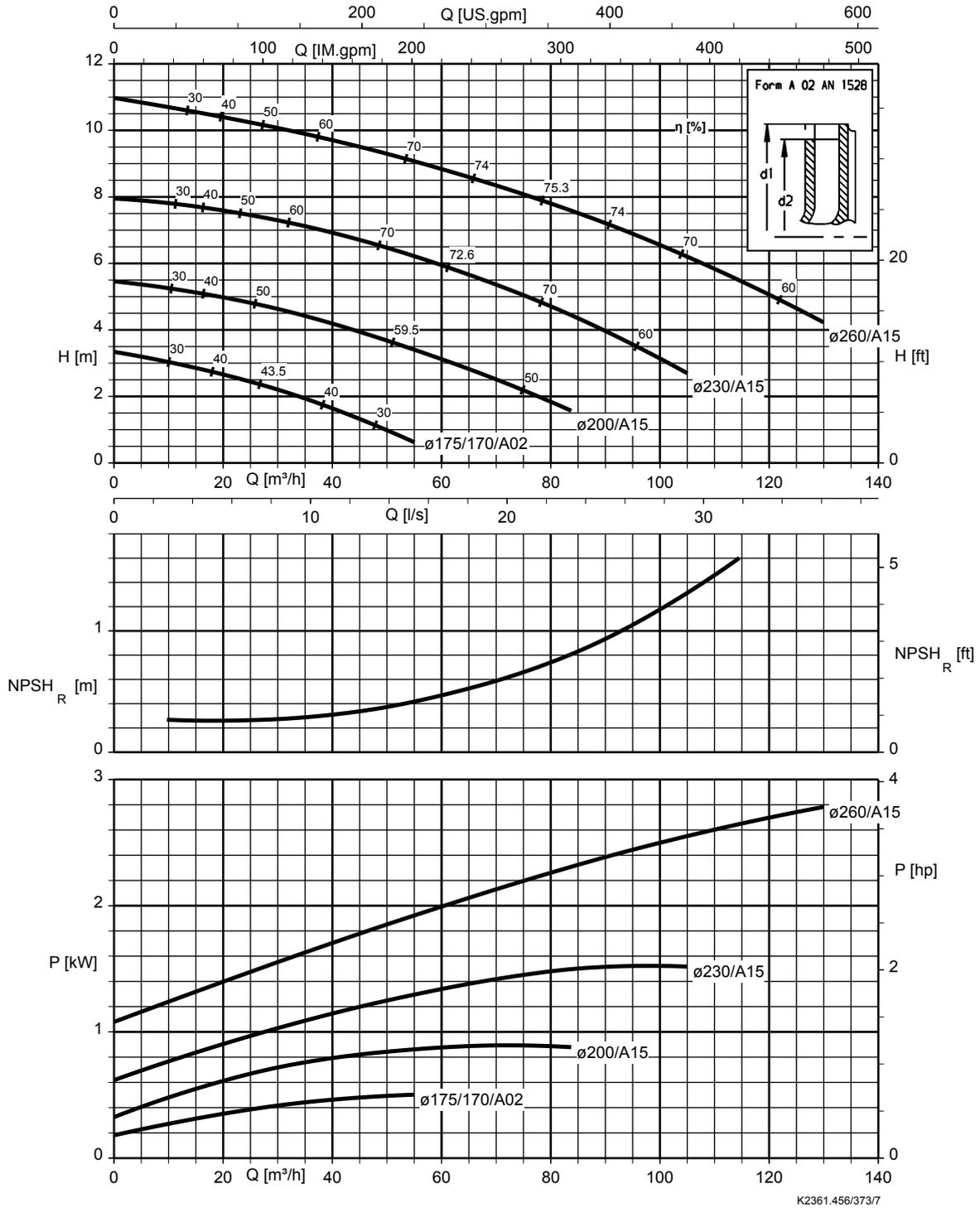


KWP K 080-065-400, n = 960 rpm

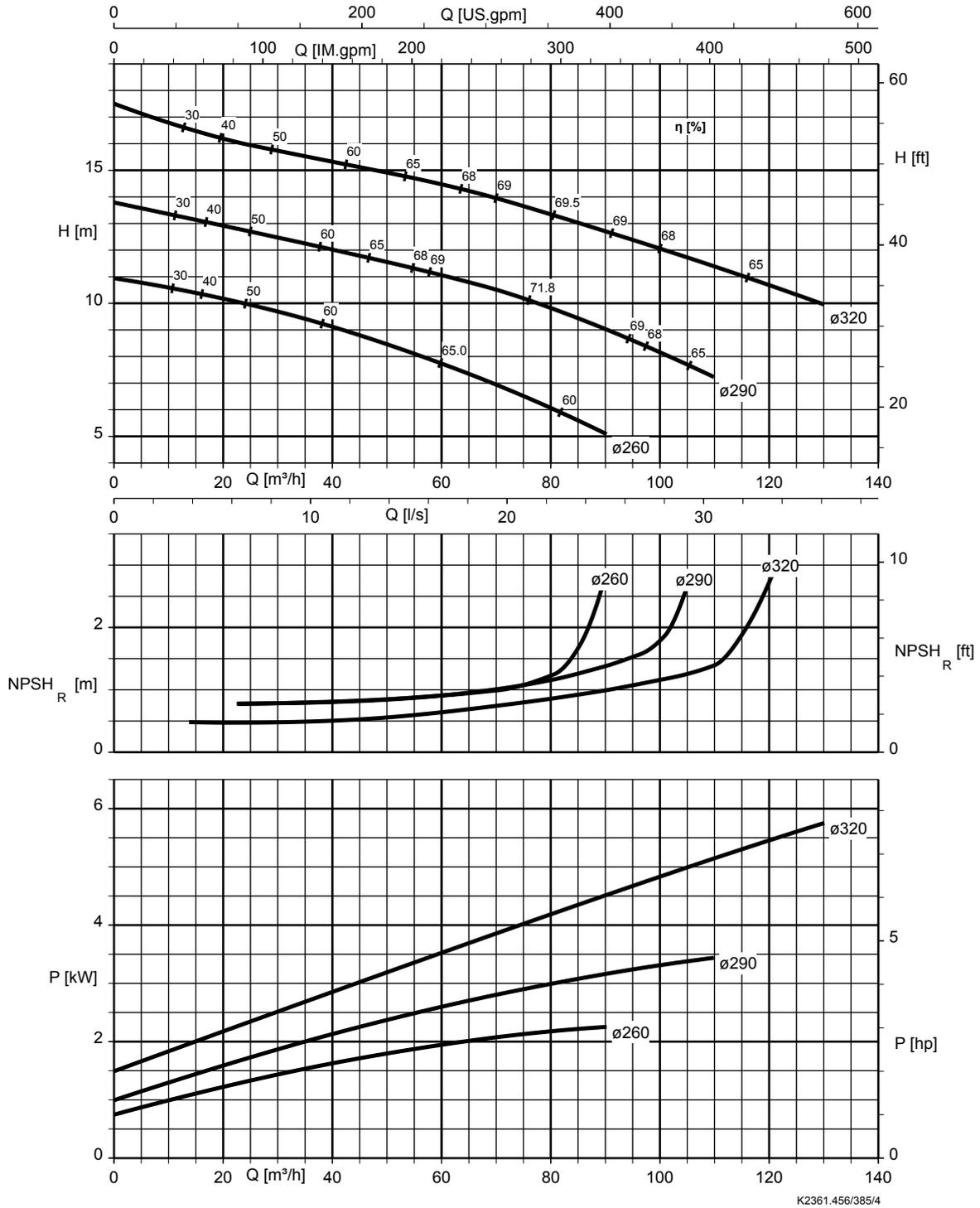


K2361.456/366/5

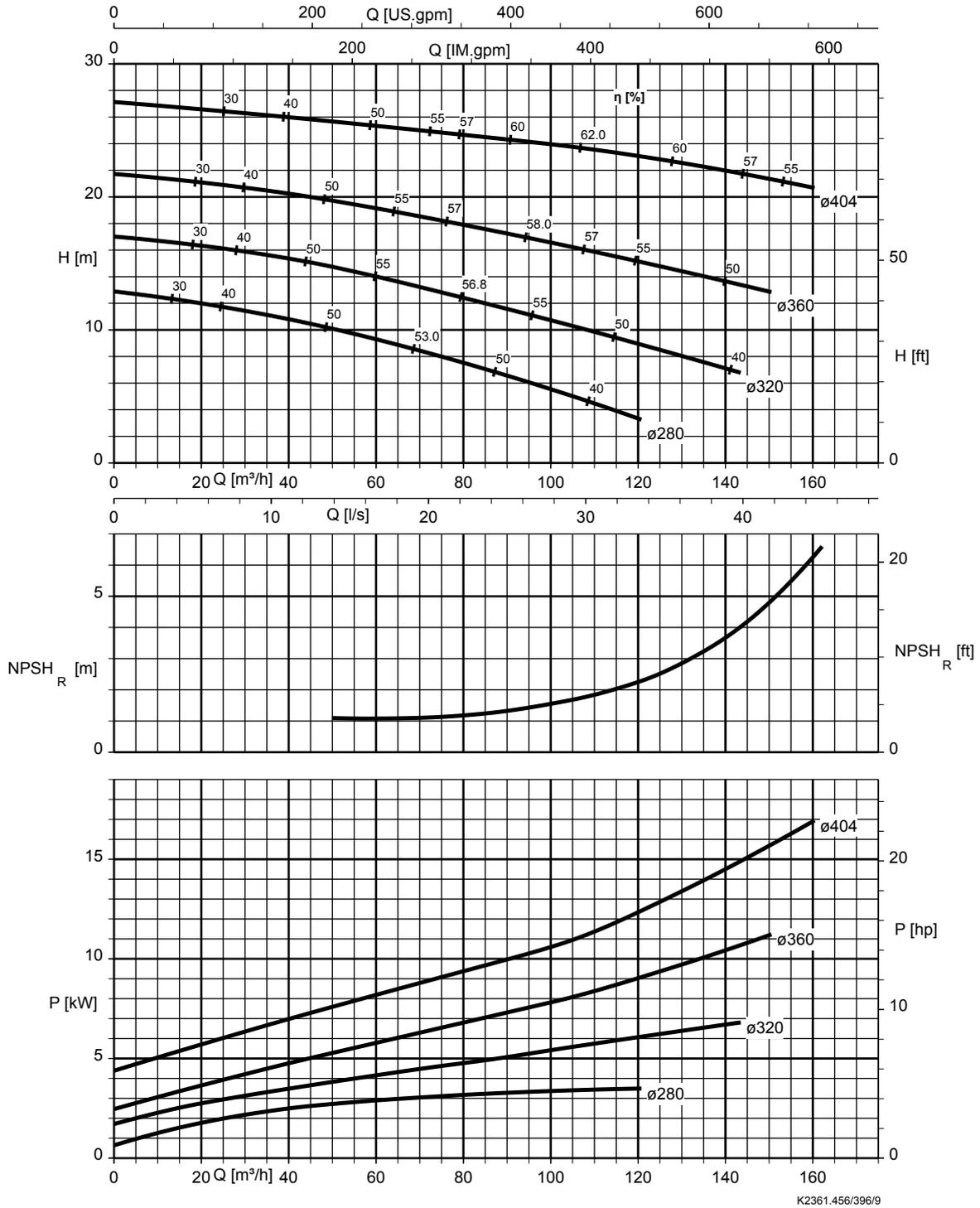
KWP K 100-080-250, n = 960 rpm



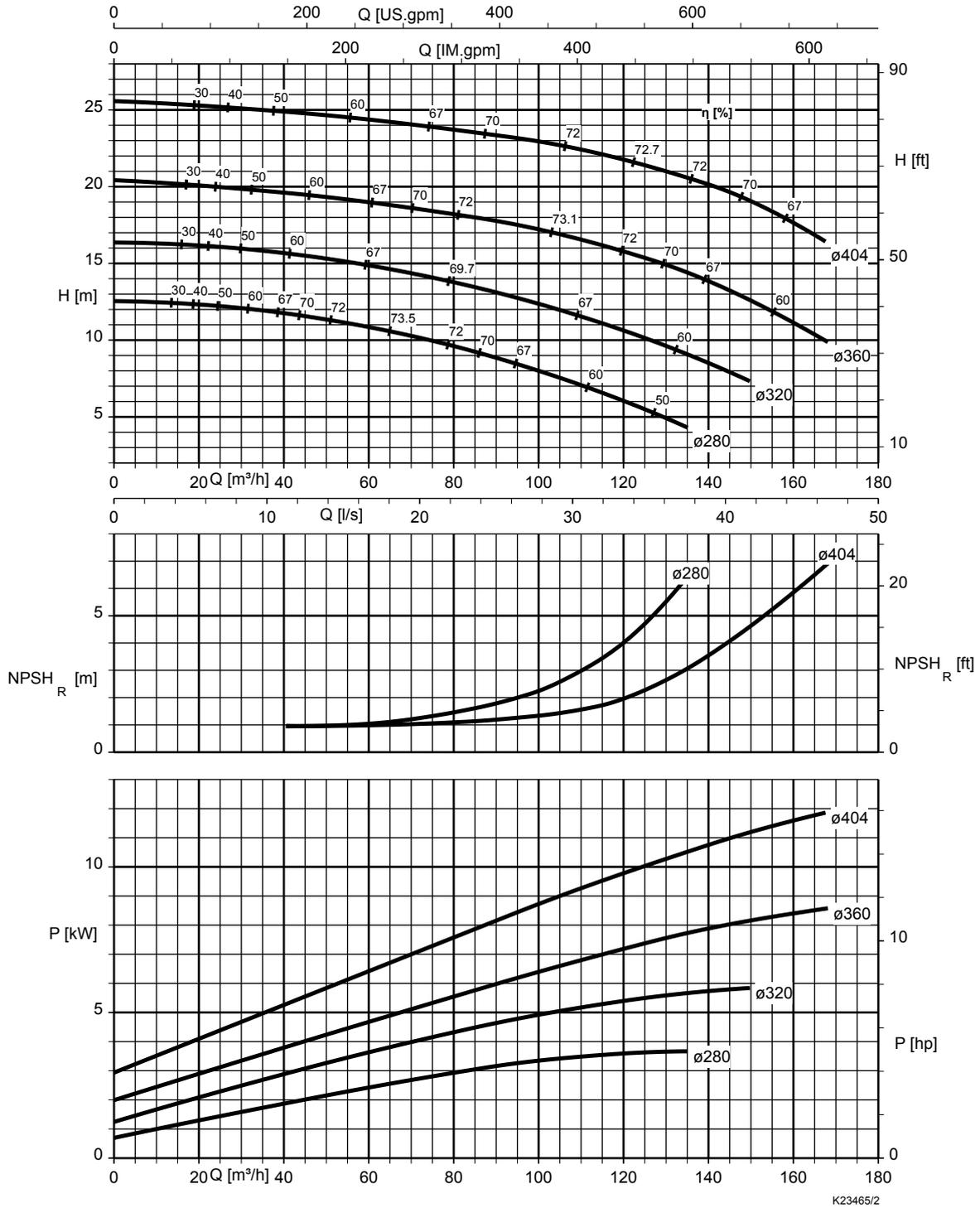
KWP K 100-080-315, n = 960 rpm



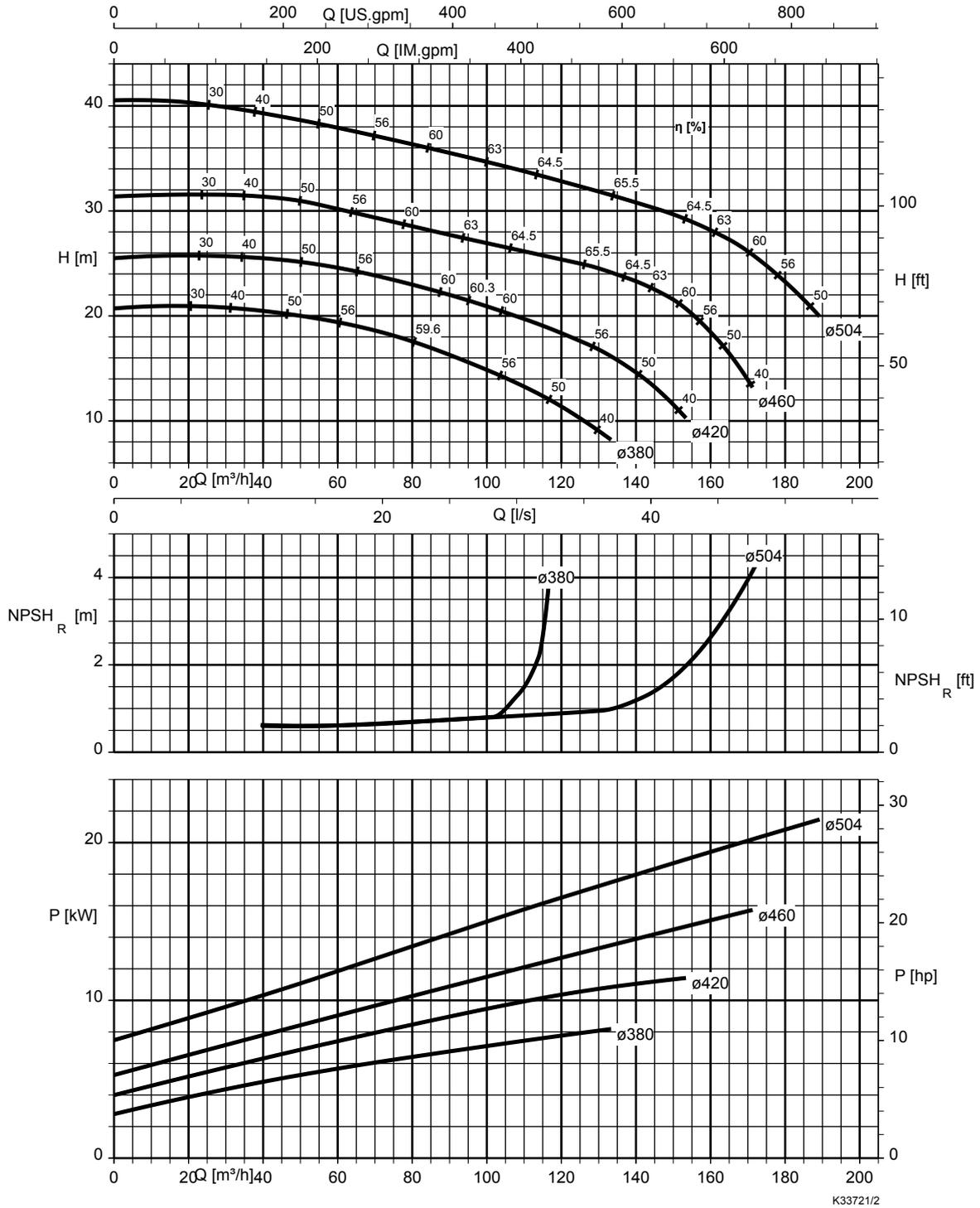
KWP K 100-080-400, n = 960 rpm



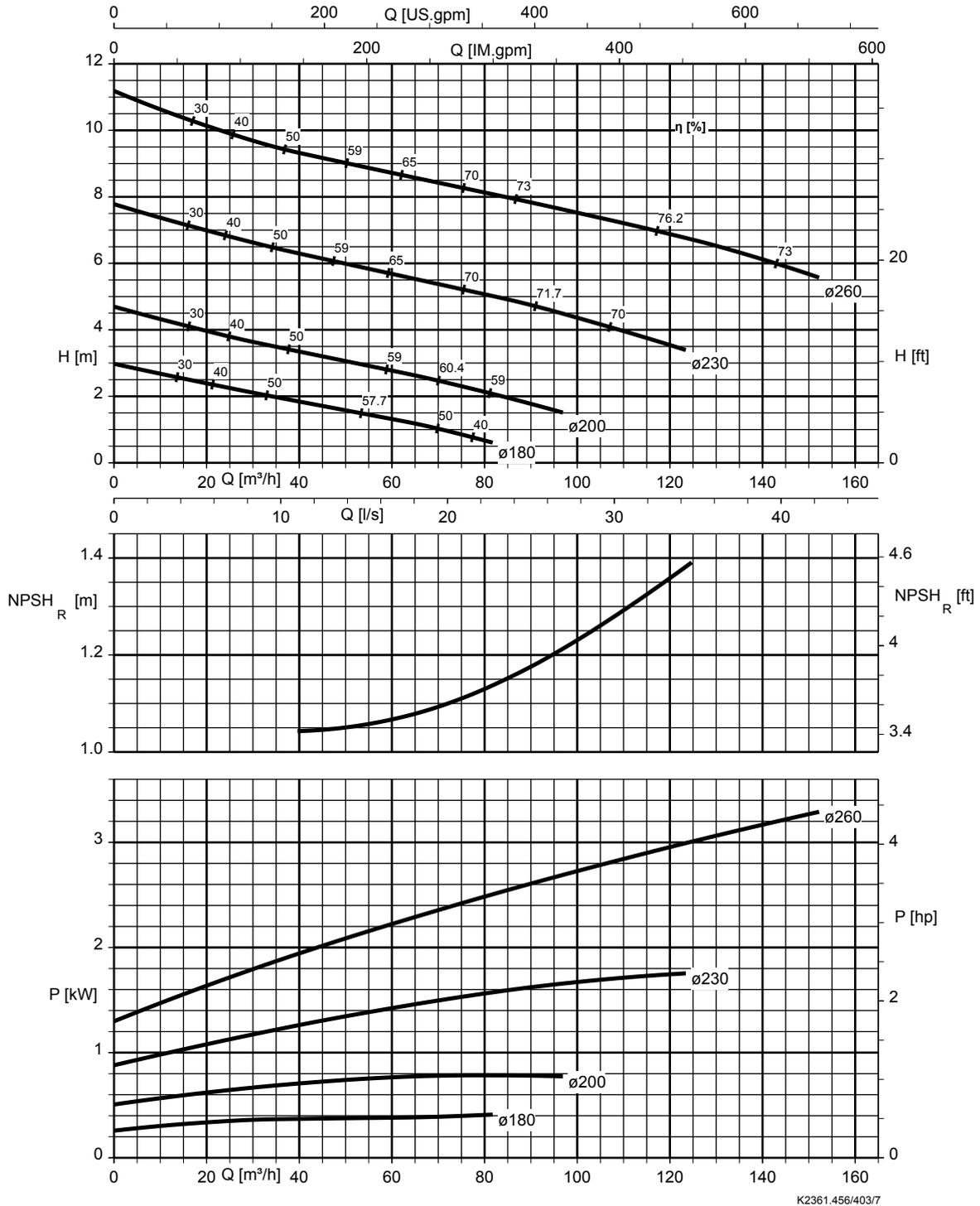
KWP K 100-080-403, n = 960 rpm



KWP K 125-080-500, n = 960 rpm

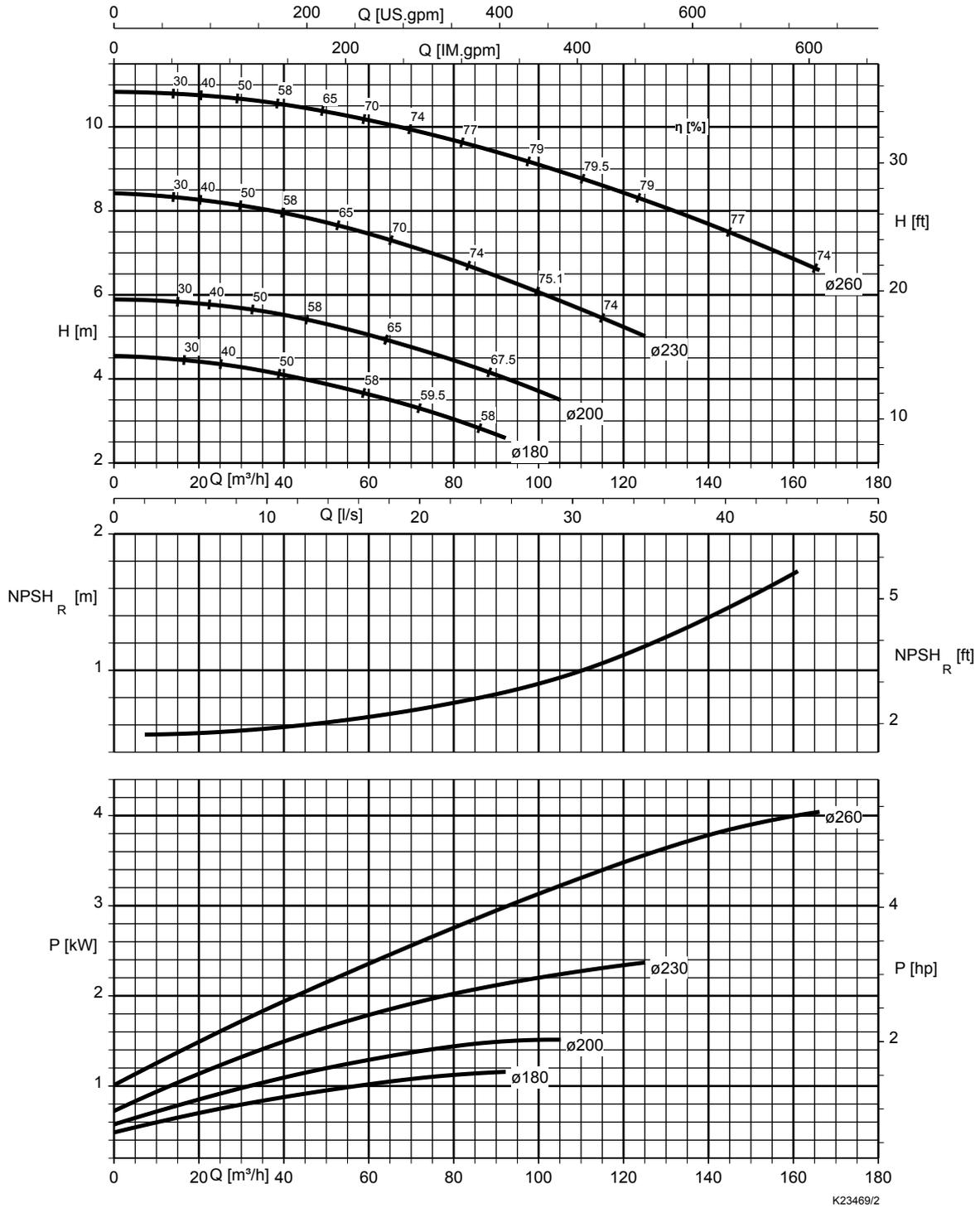


KWP K 125-100-250, n = 960 rpm



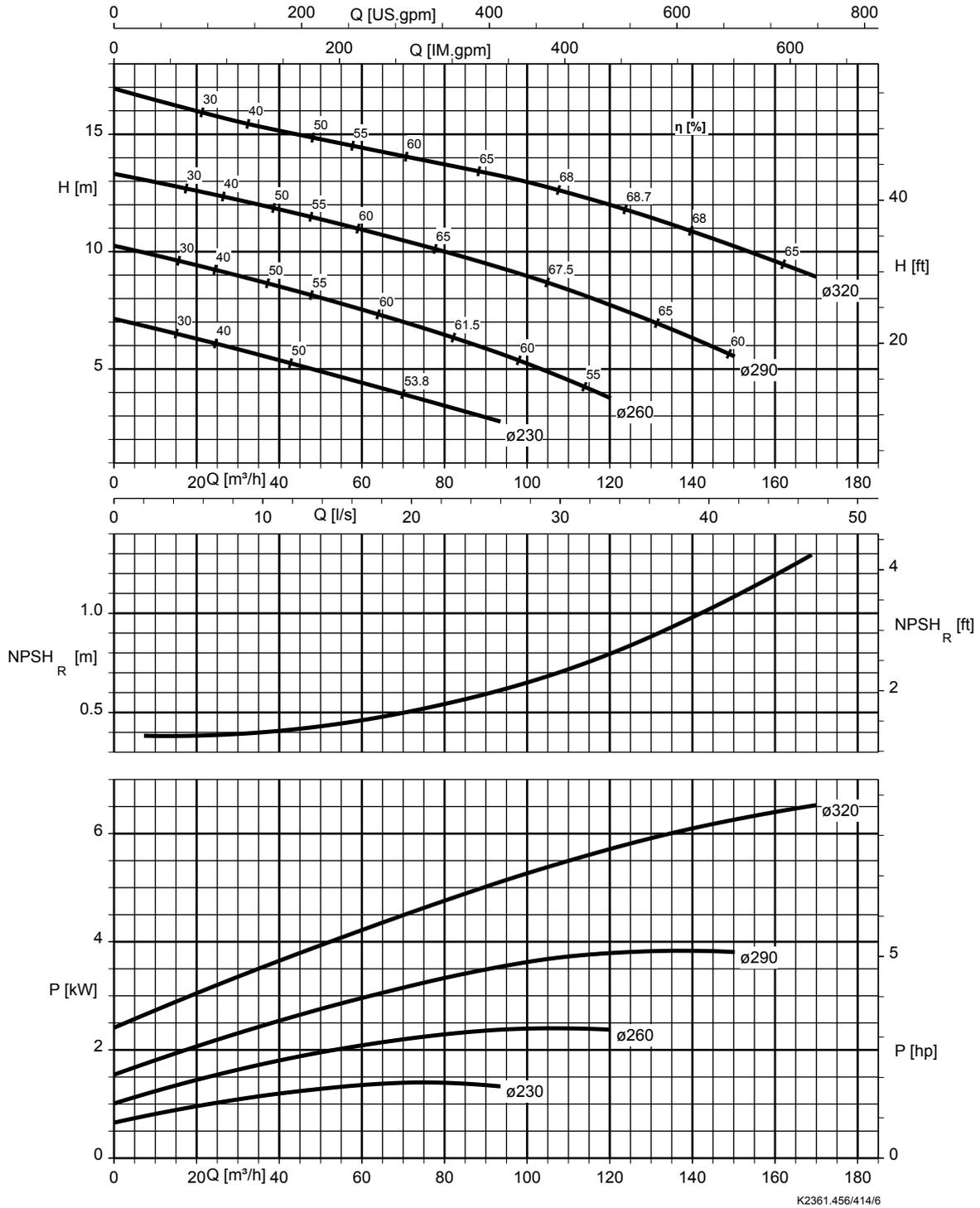
K2361.456/403/7

KWP K 125-100-253, n = 960 rpm

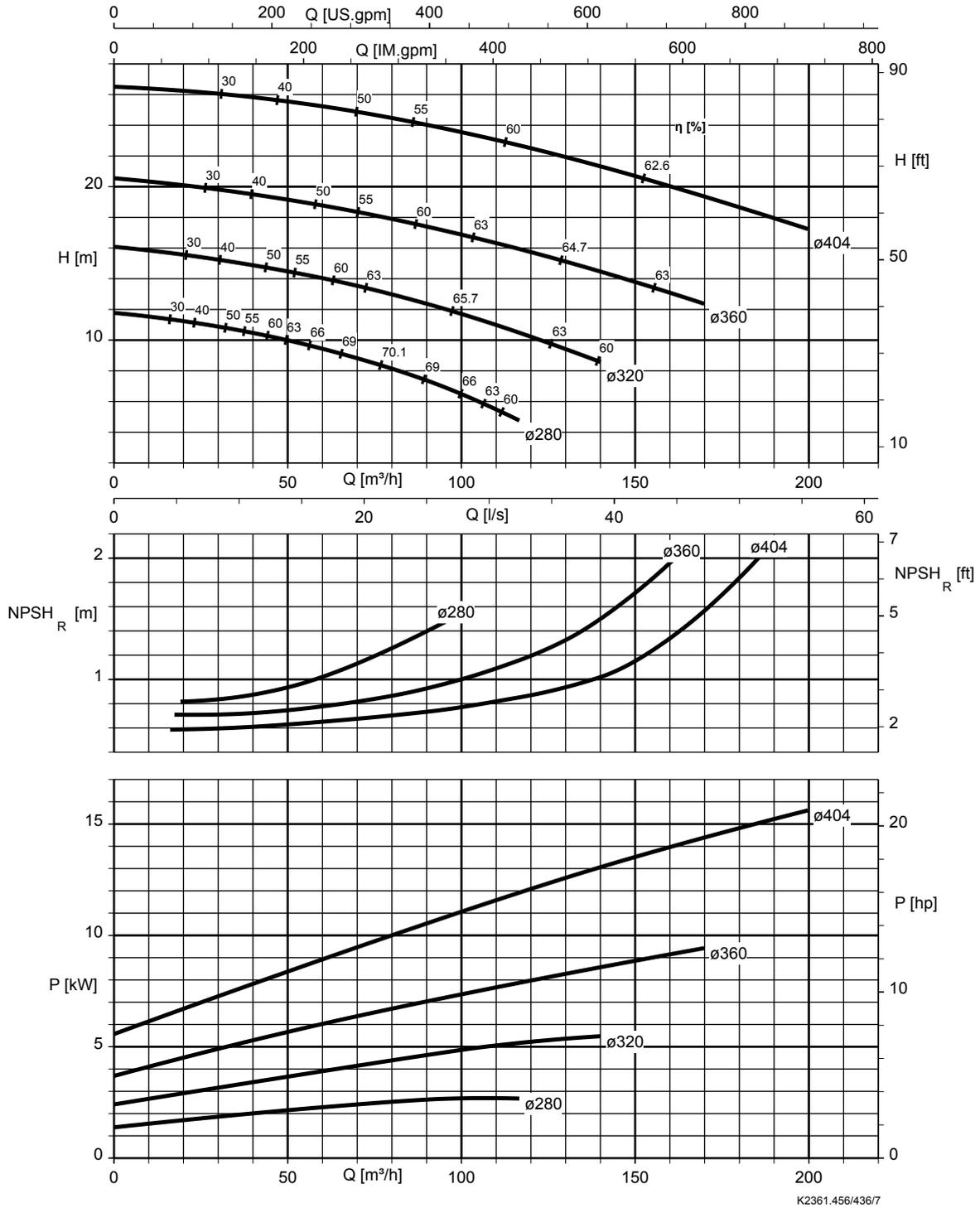


K23469/2

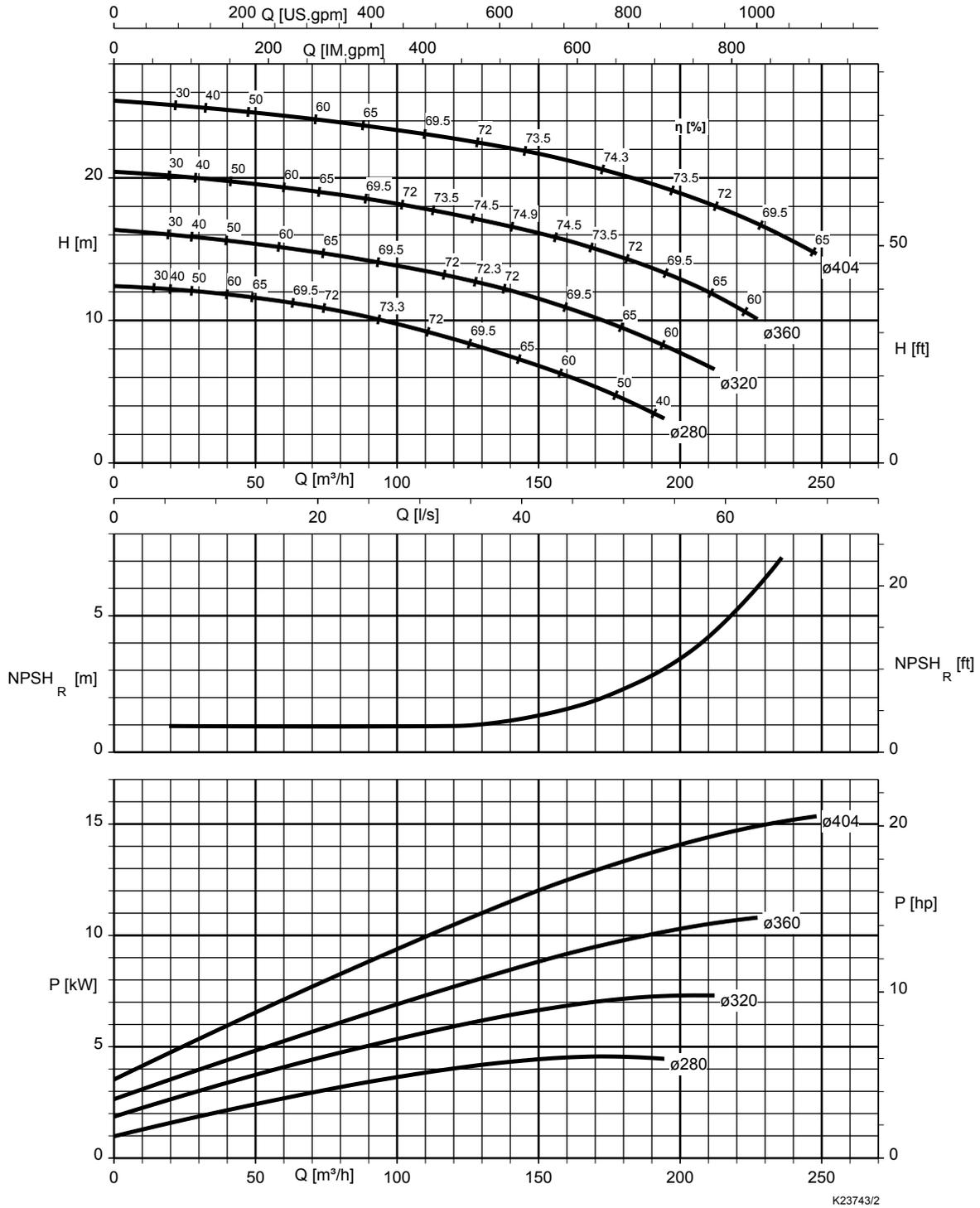
KWP K 125-100-315, n = 960 rpm



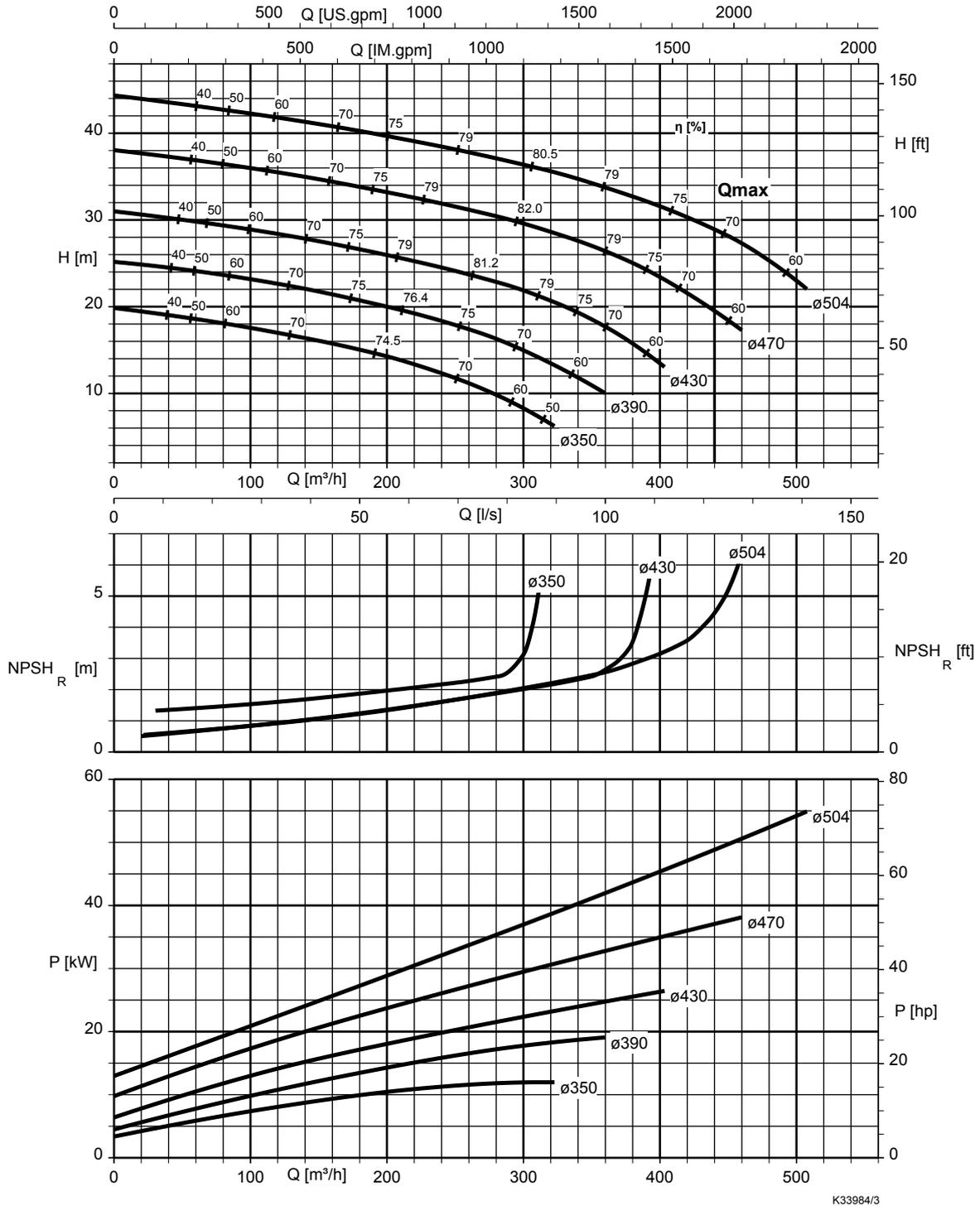
KWP K 125-100-400, n = 960 rpm



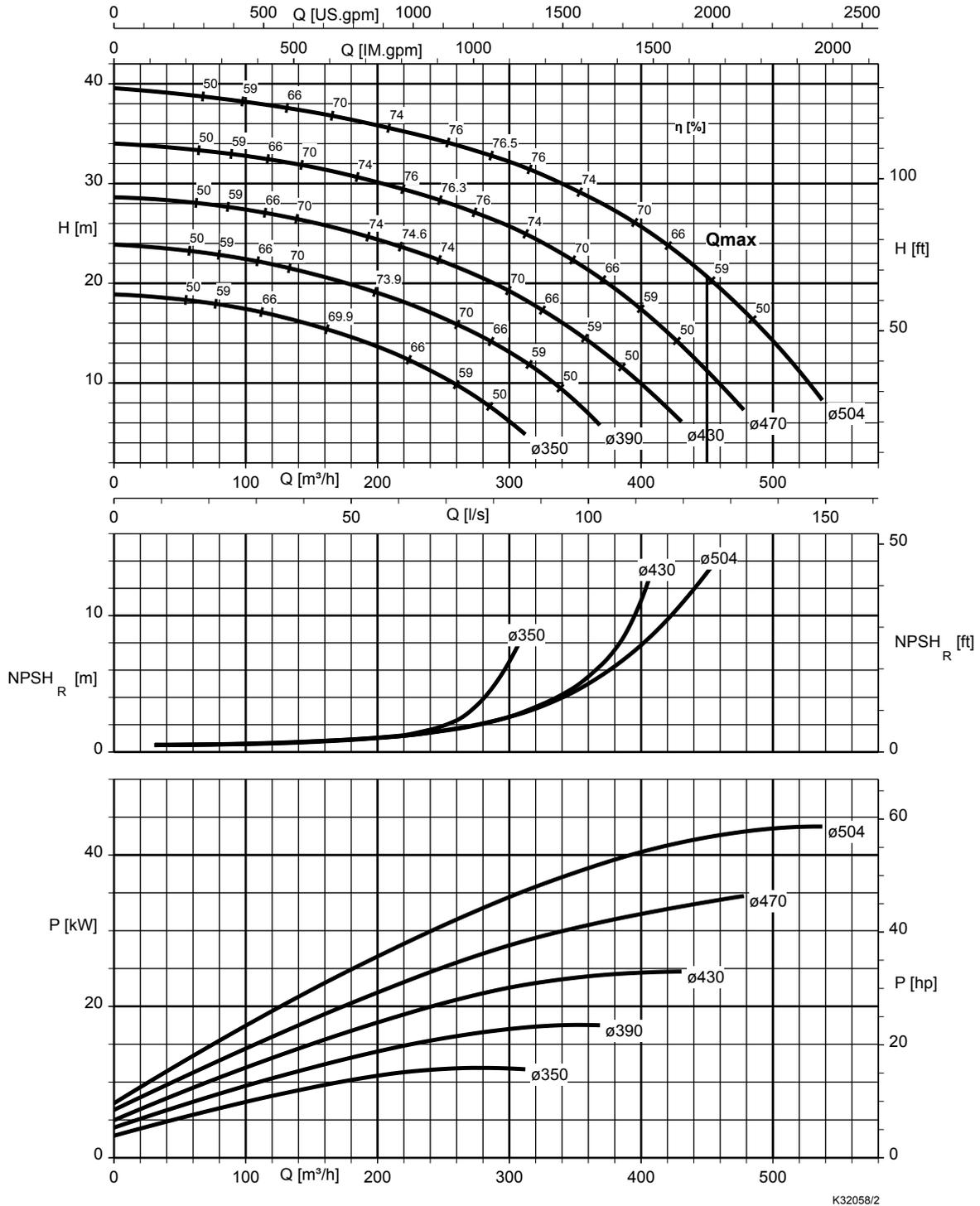
KWP K 125-100-403, n = 960 rpm



KWP K 150-125-500, n = 960 rpm

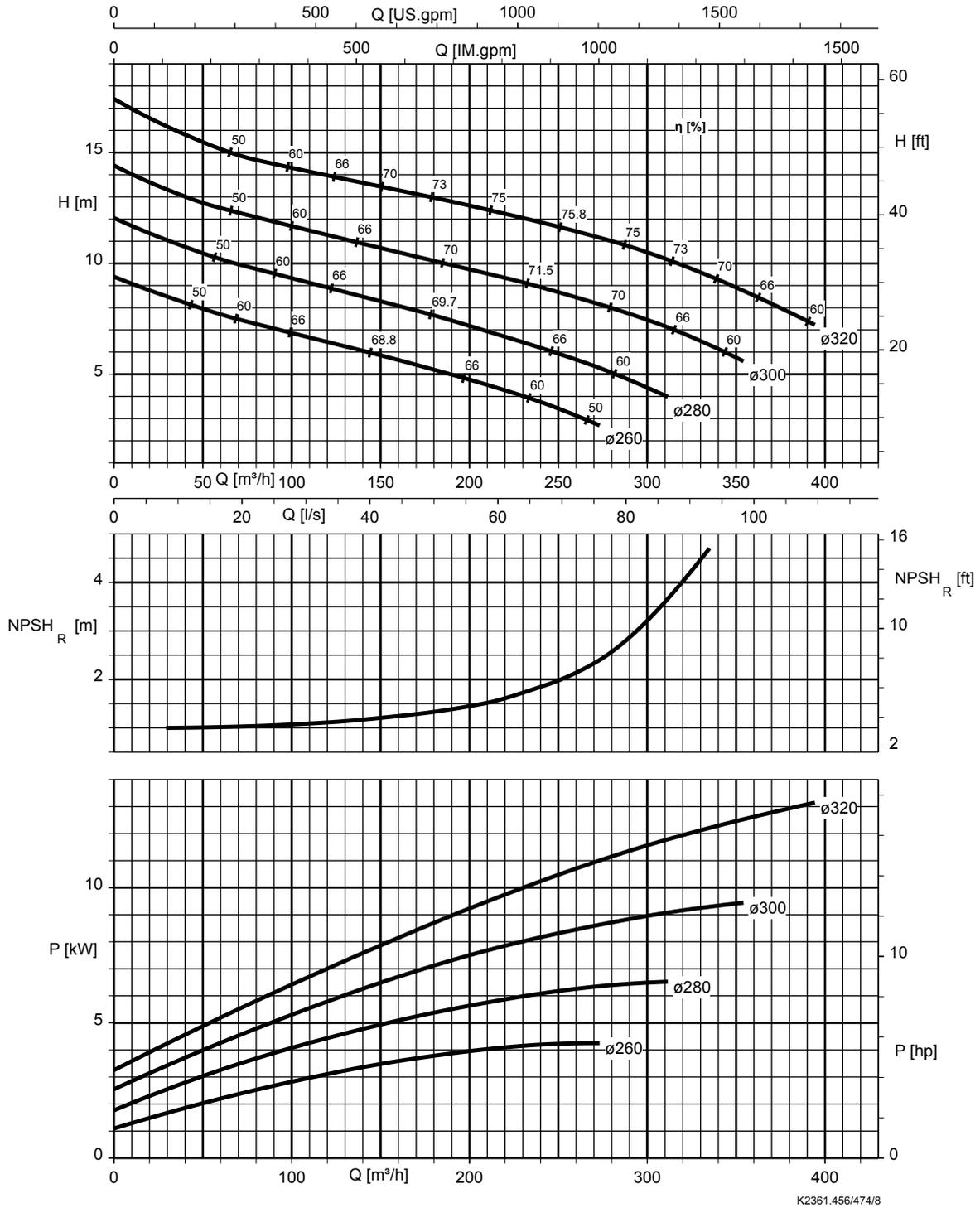


KWP K 150-125-503, n = 960 rpm

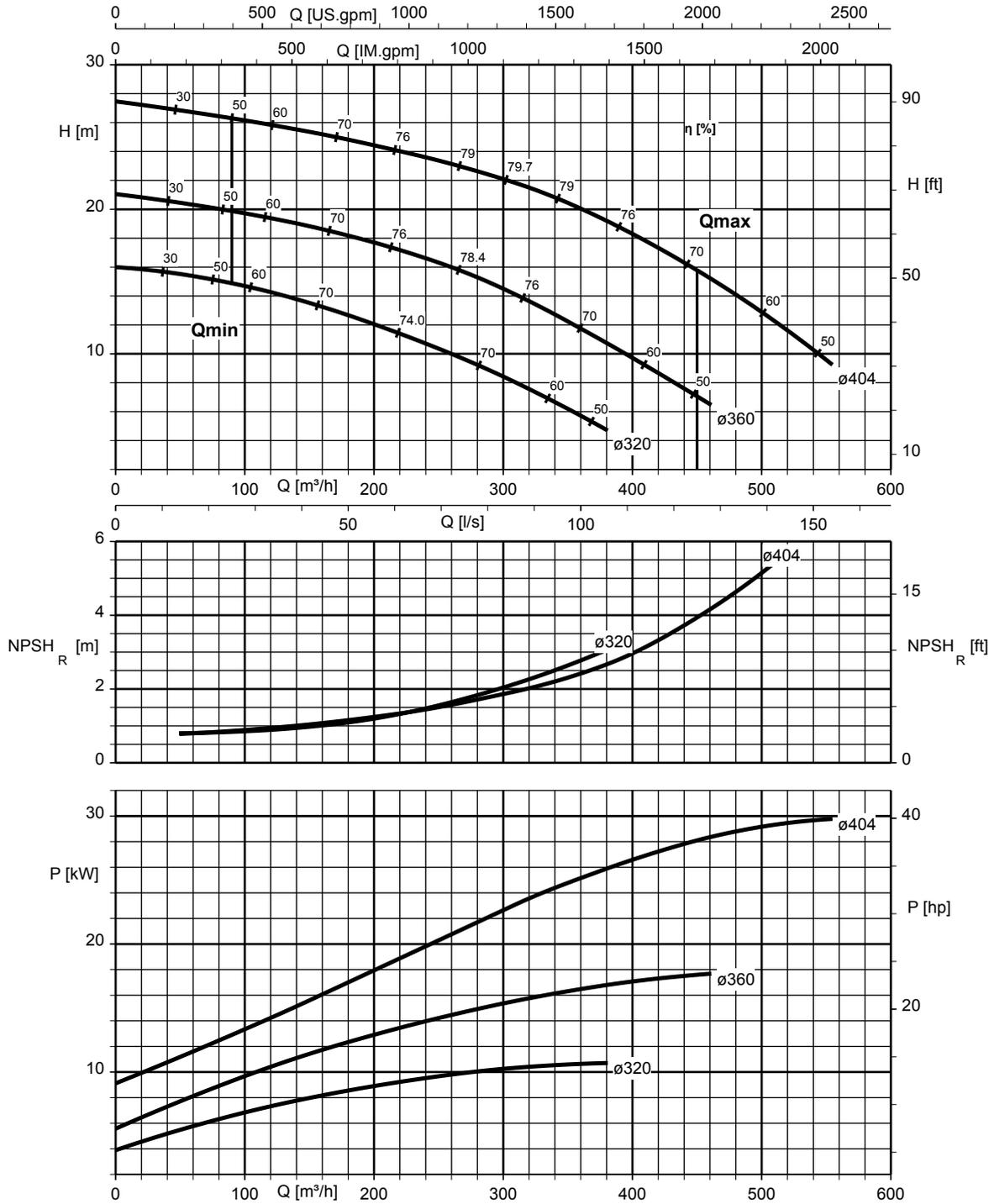


K32058/2

KWP K 150-150-315, n = 960 rpm

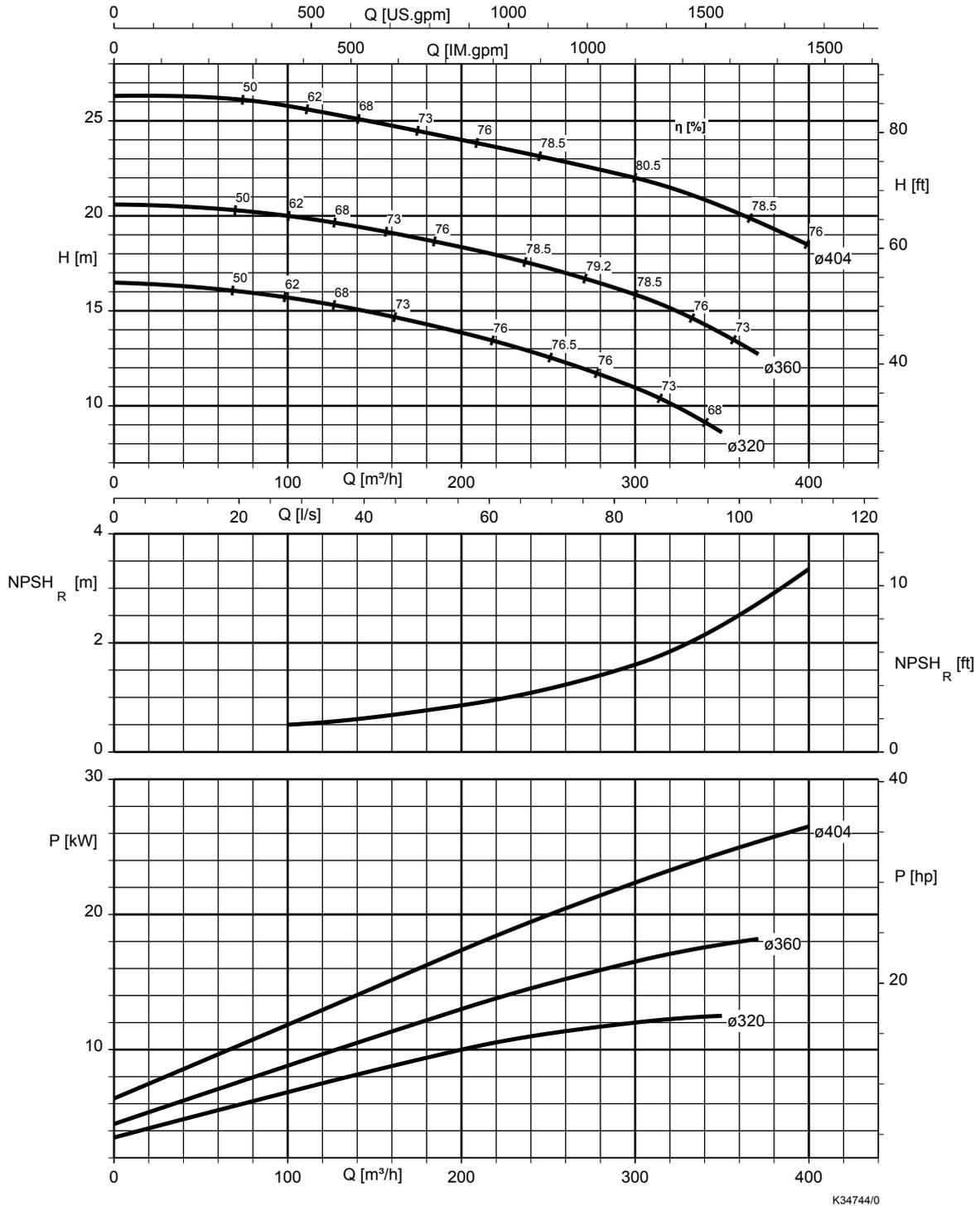


KWP K 150-150-400, n = 960 rpm



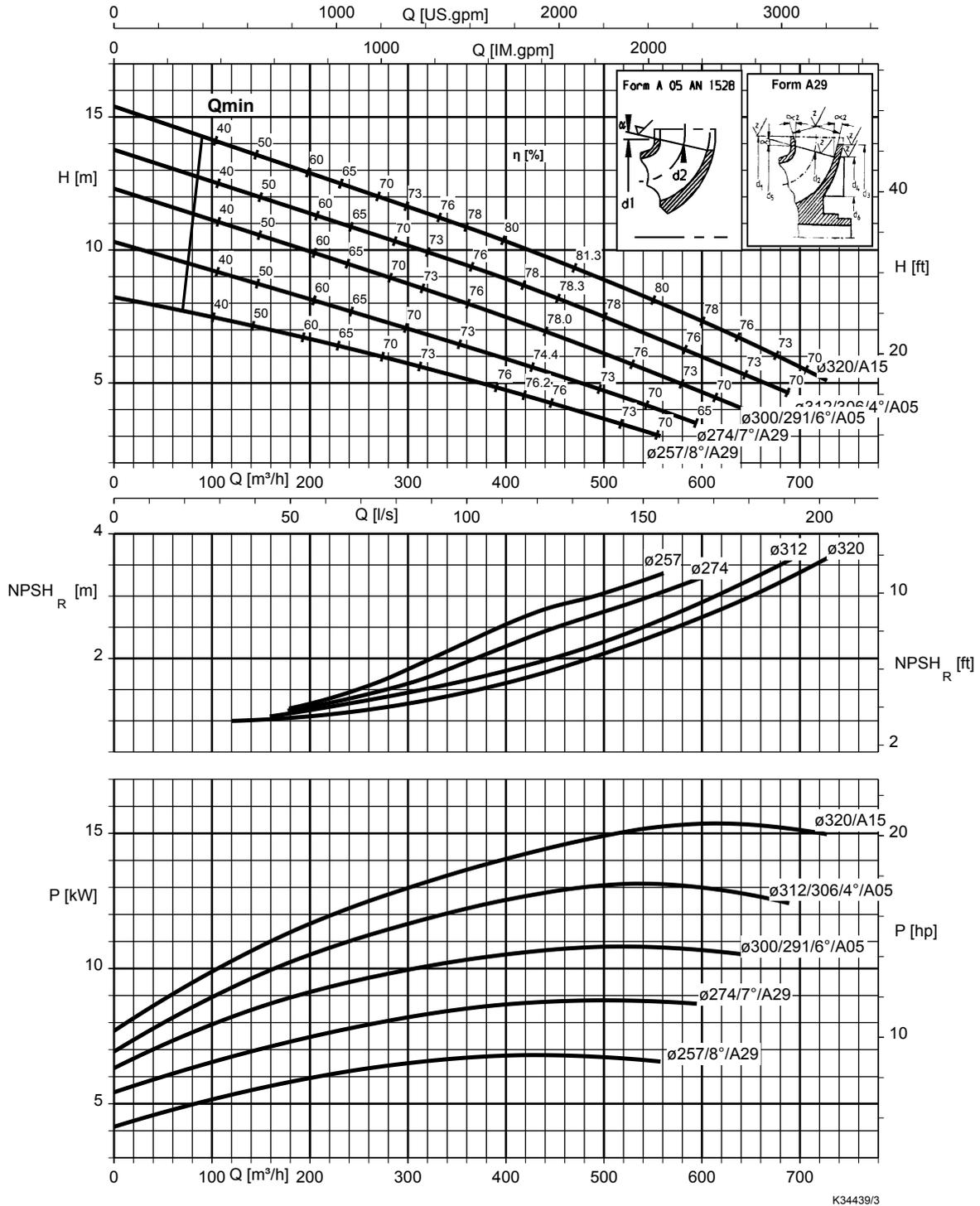
K2361.456/496/5

KWP K 150-150-403, n = 960 rpm

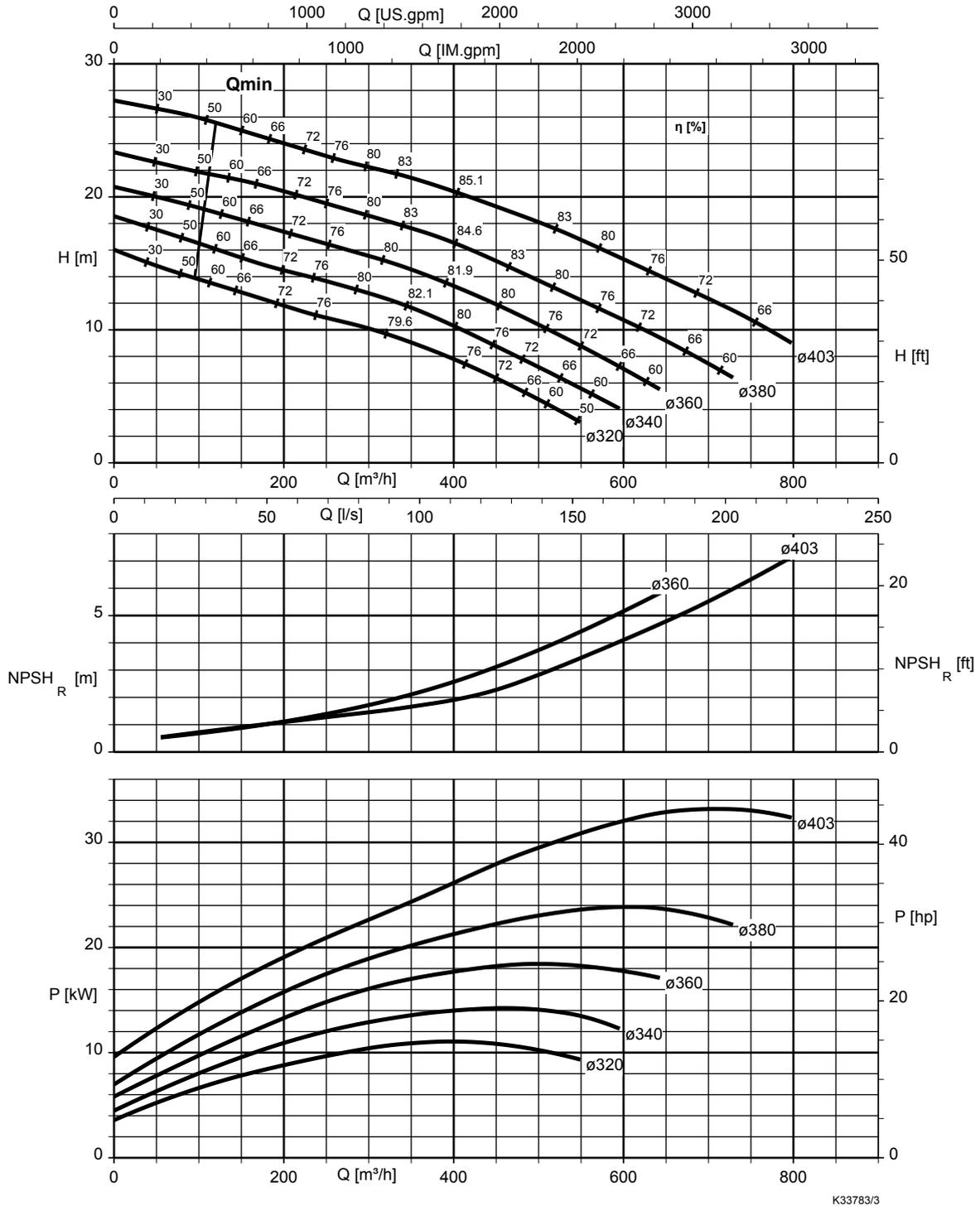


K34744/0

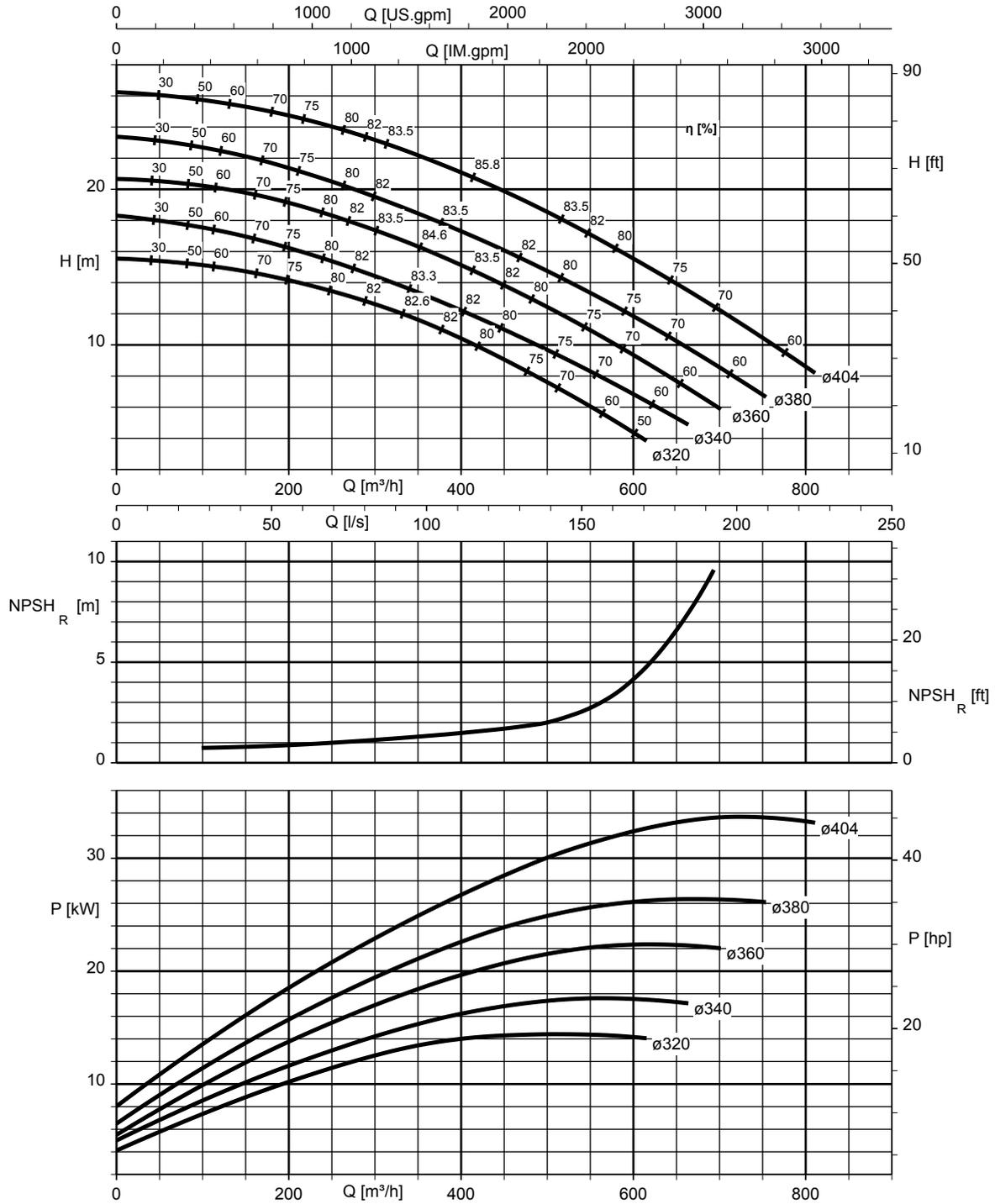
KWP K 200-200-320, n = 960 rpm



KWP K 200-200-400, n = 960 rpm

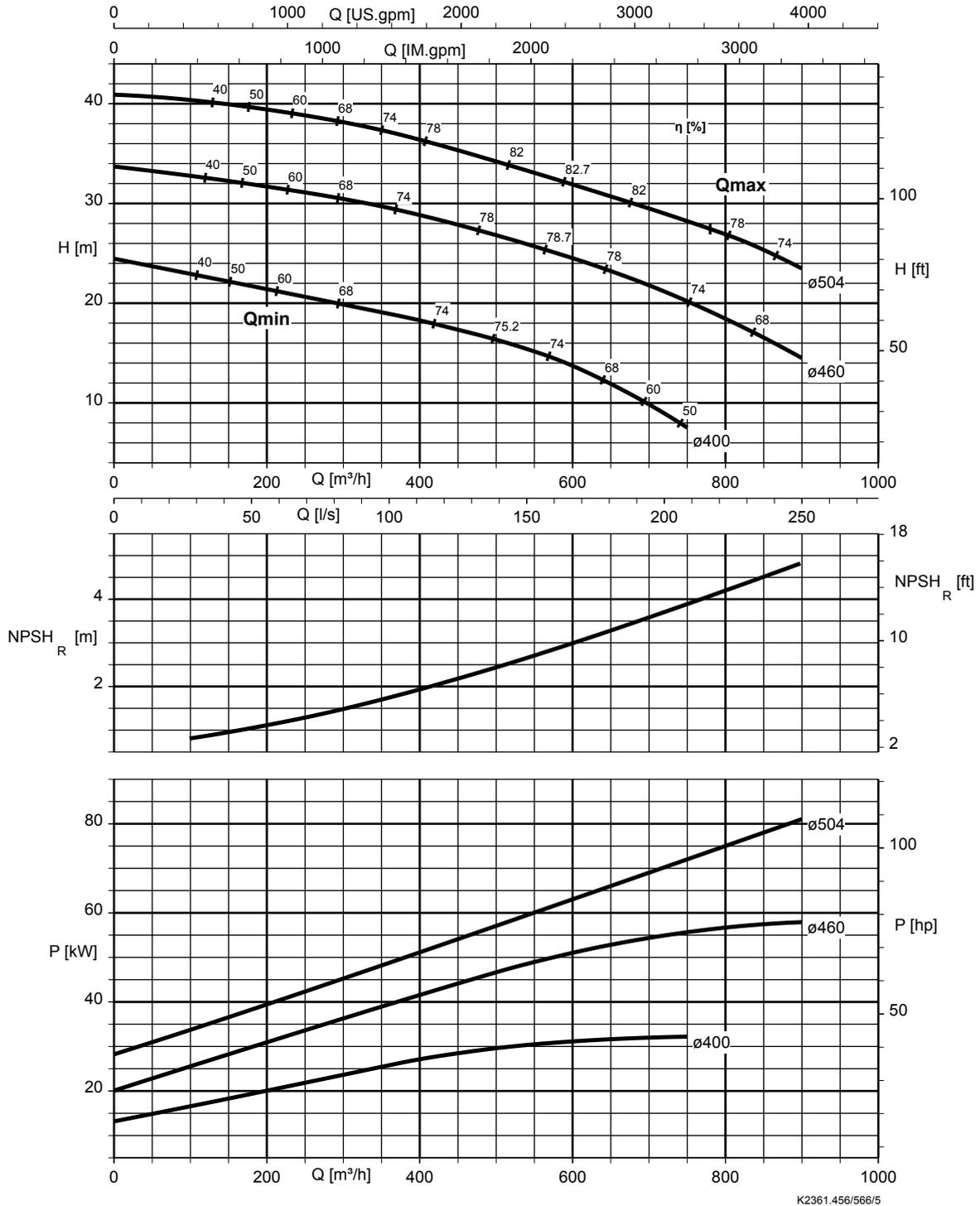


KWP K 200-200-403, n = 960 rpm

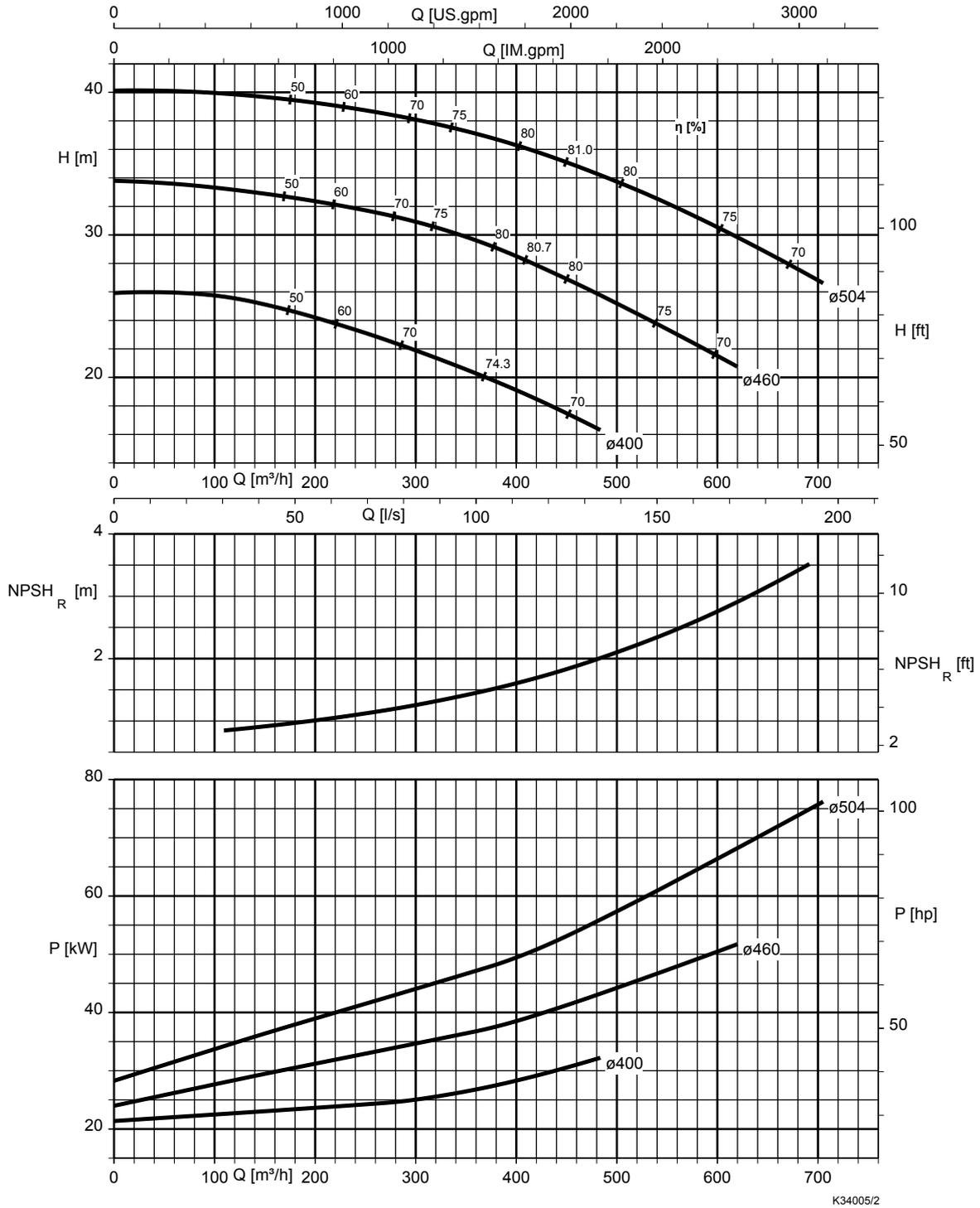


K31960/2

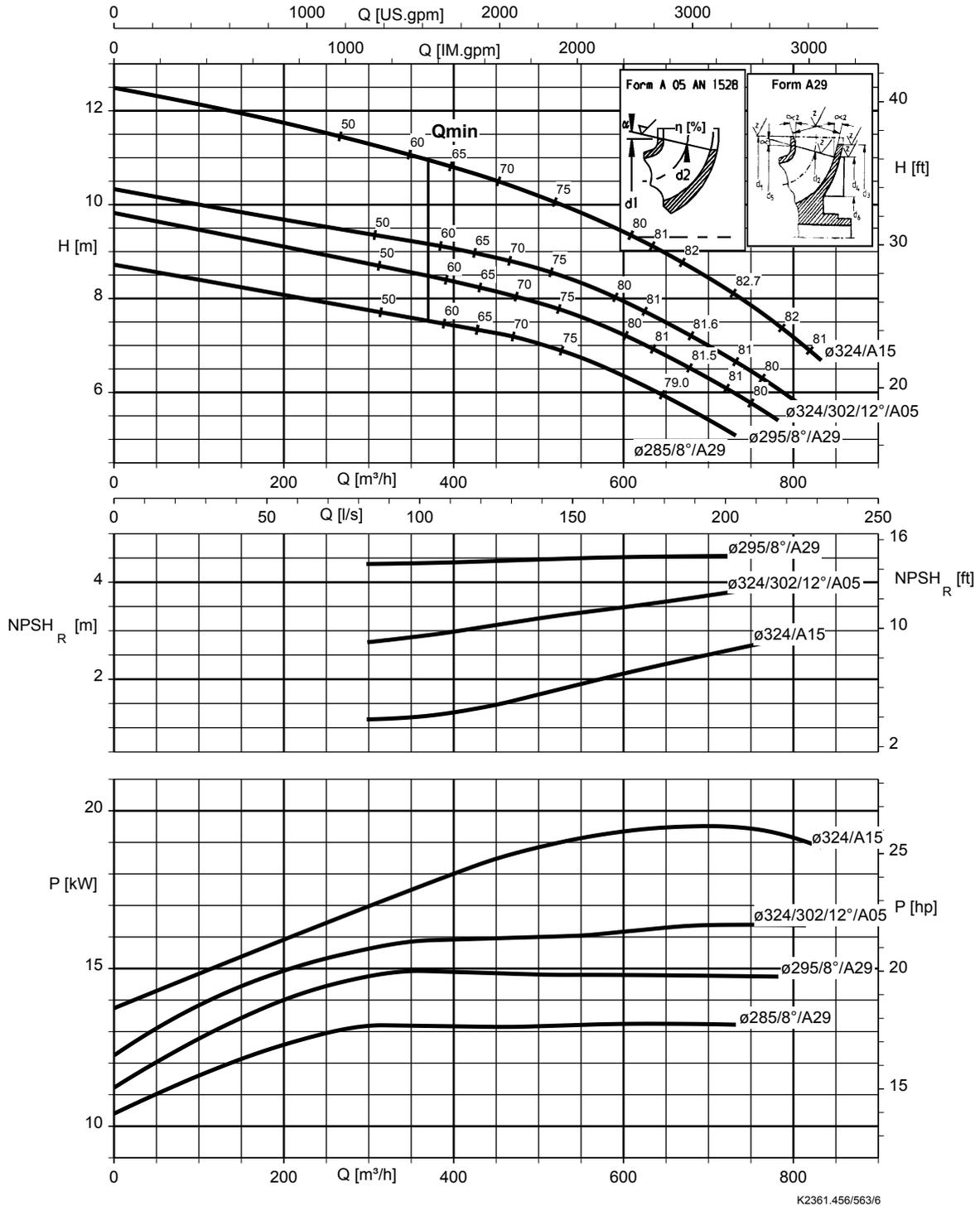
KWP K 200-200-501, n = 960 rpm



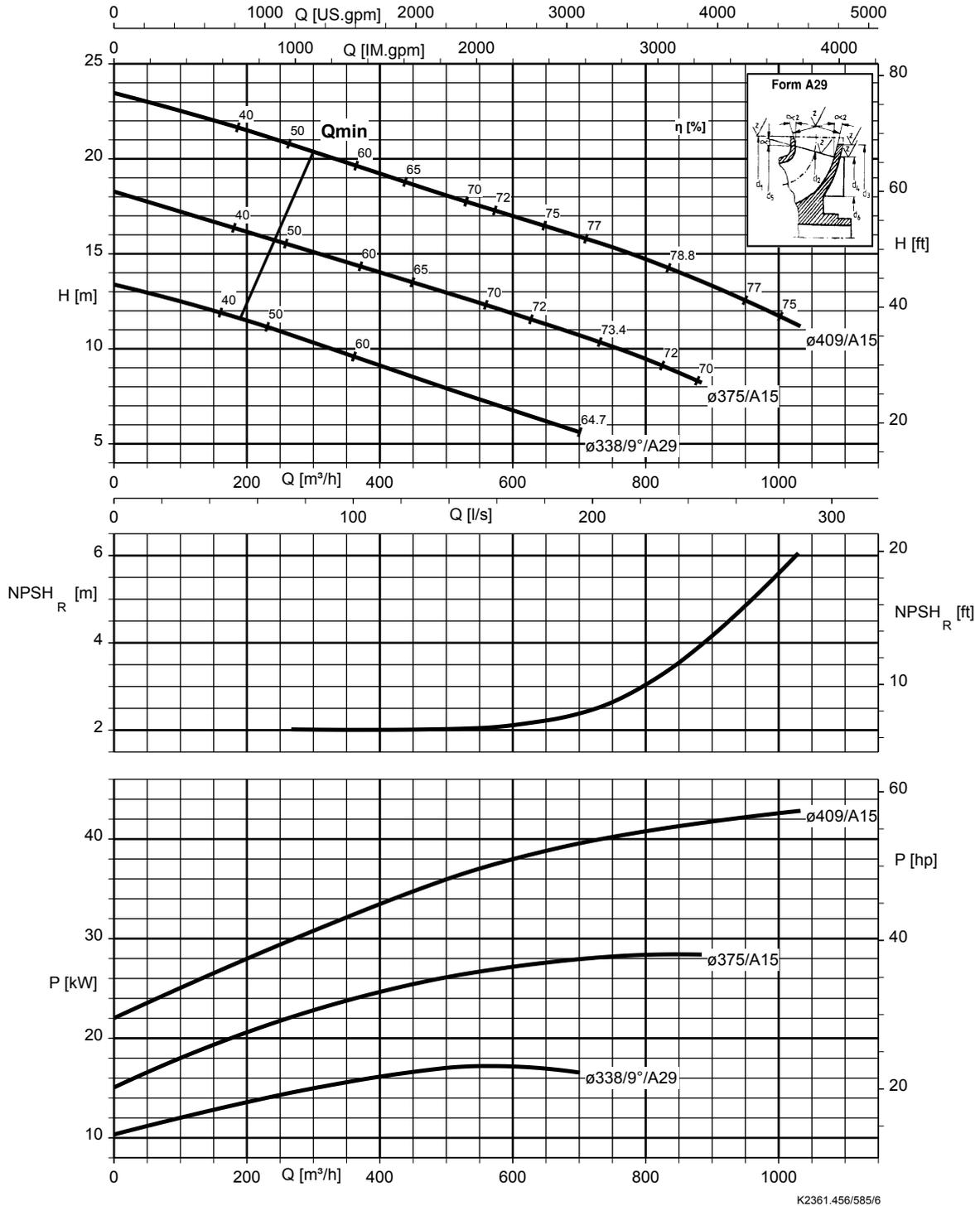
KWP K 200-200-503, n = 960 rpm



KWP K 250-250-315, n = 960 rpm

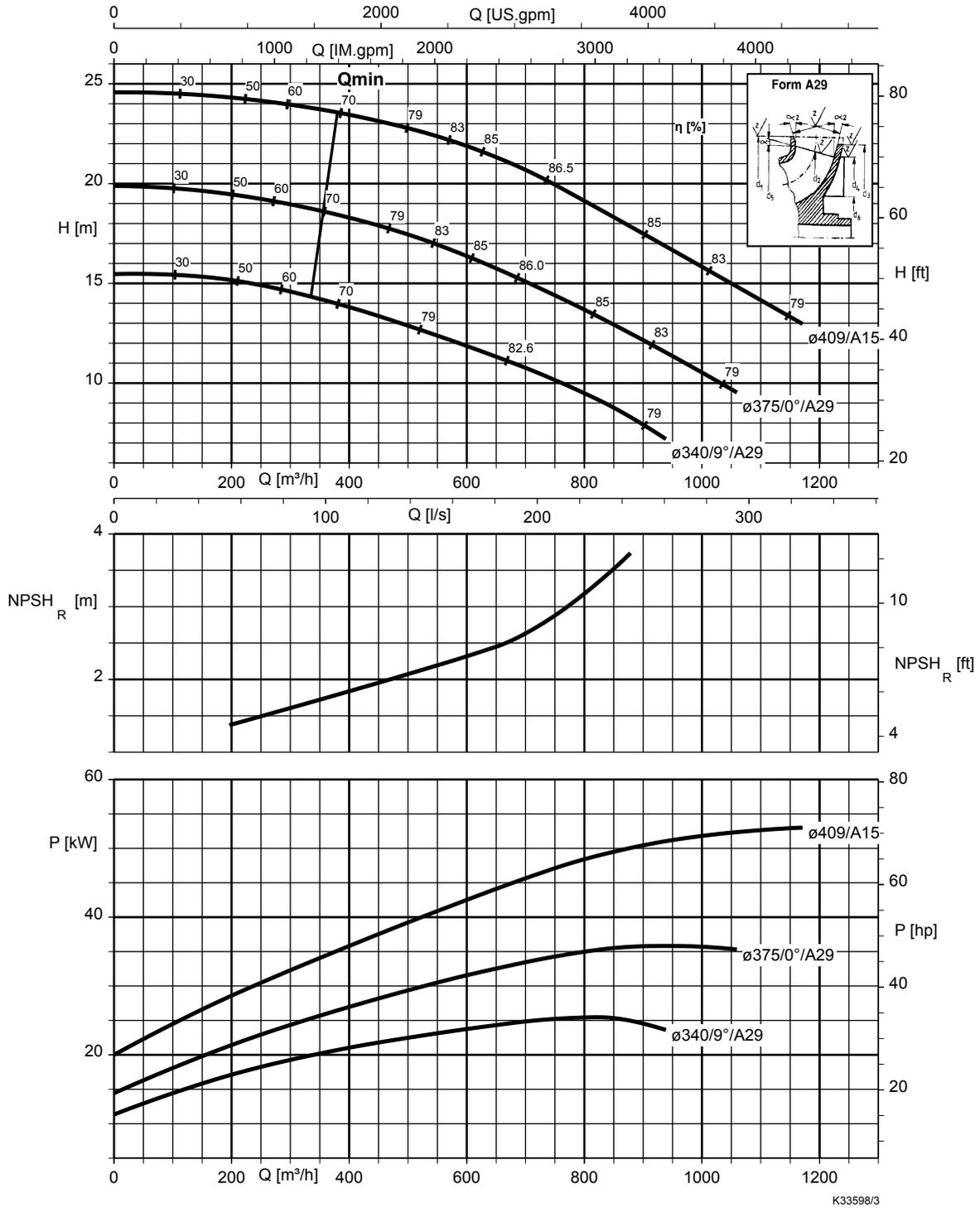


KWP K 250-250-400, n = 960 rpm

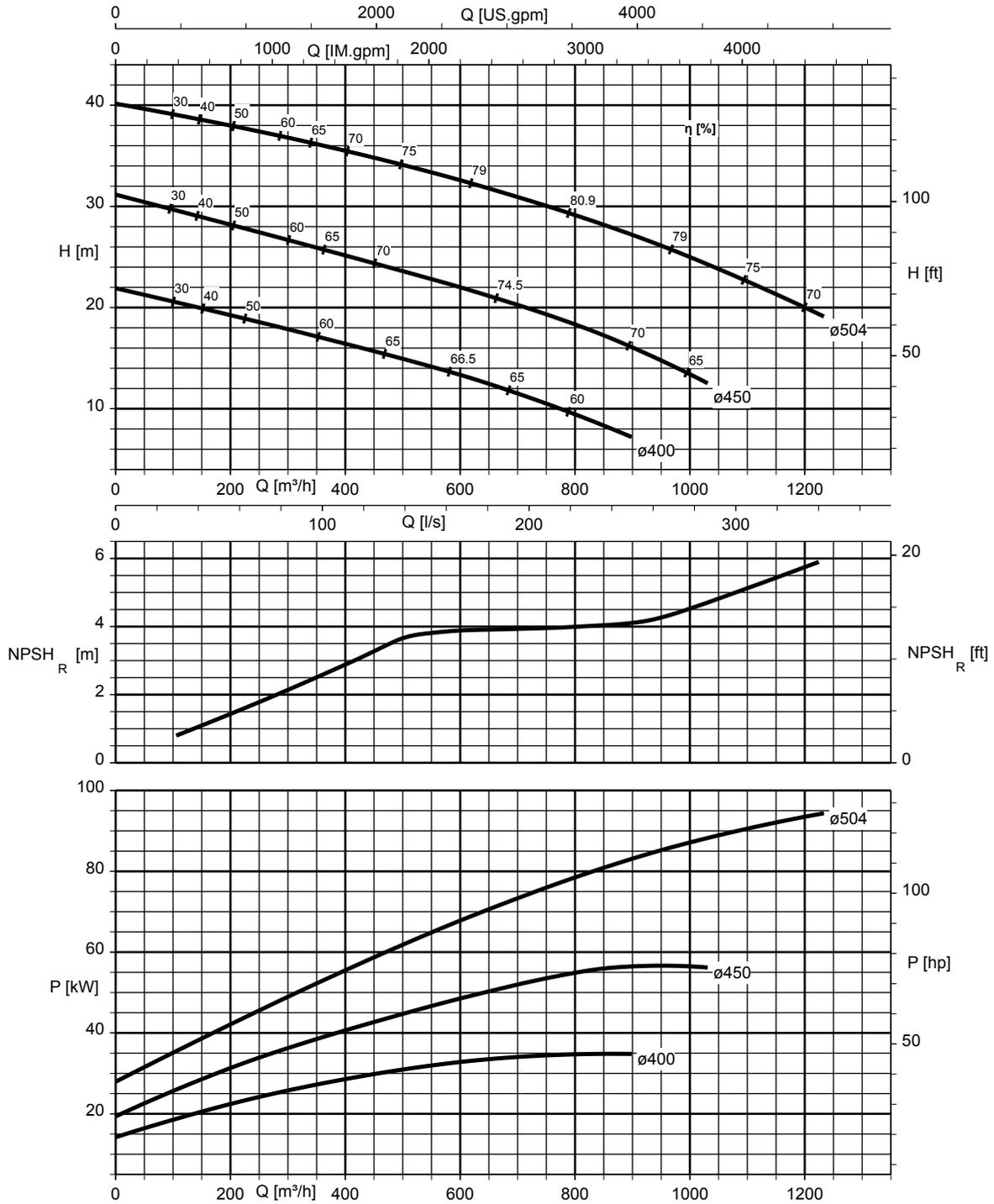


K2361.456/585/6

KWP K 250-250-403, n = 960 rpm

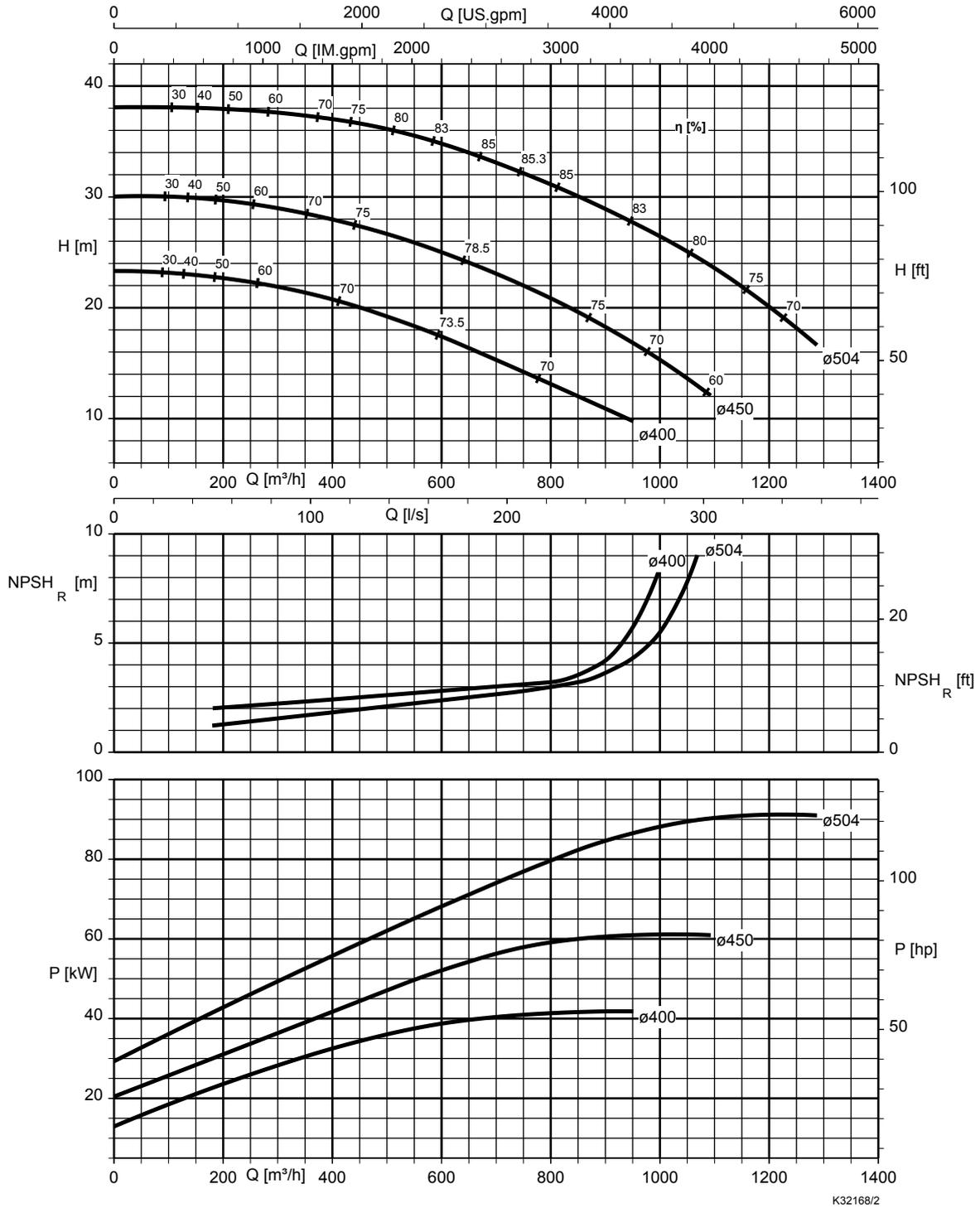


KWP K 250-250-500, n = 960 rpm

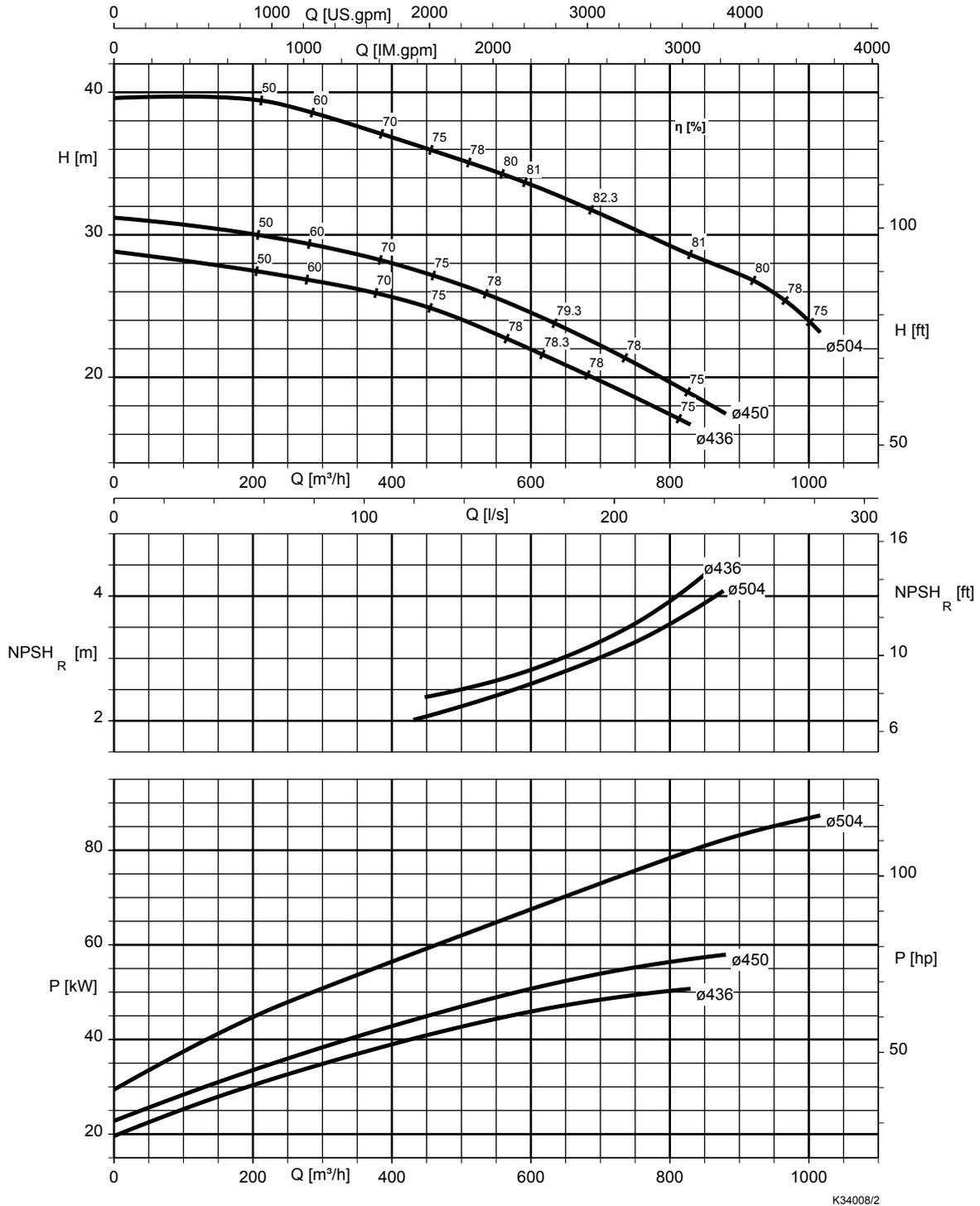


K2361.456/567/5

KWP K 250-250-503, n = 960 rpm

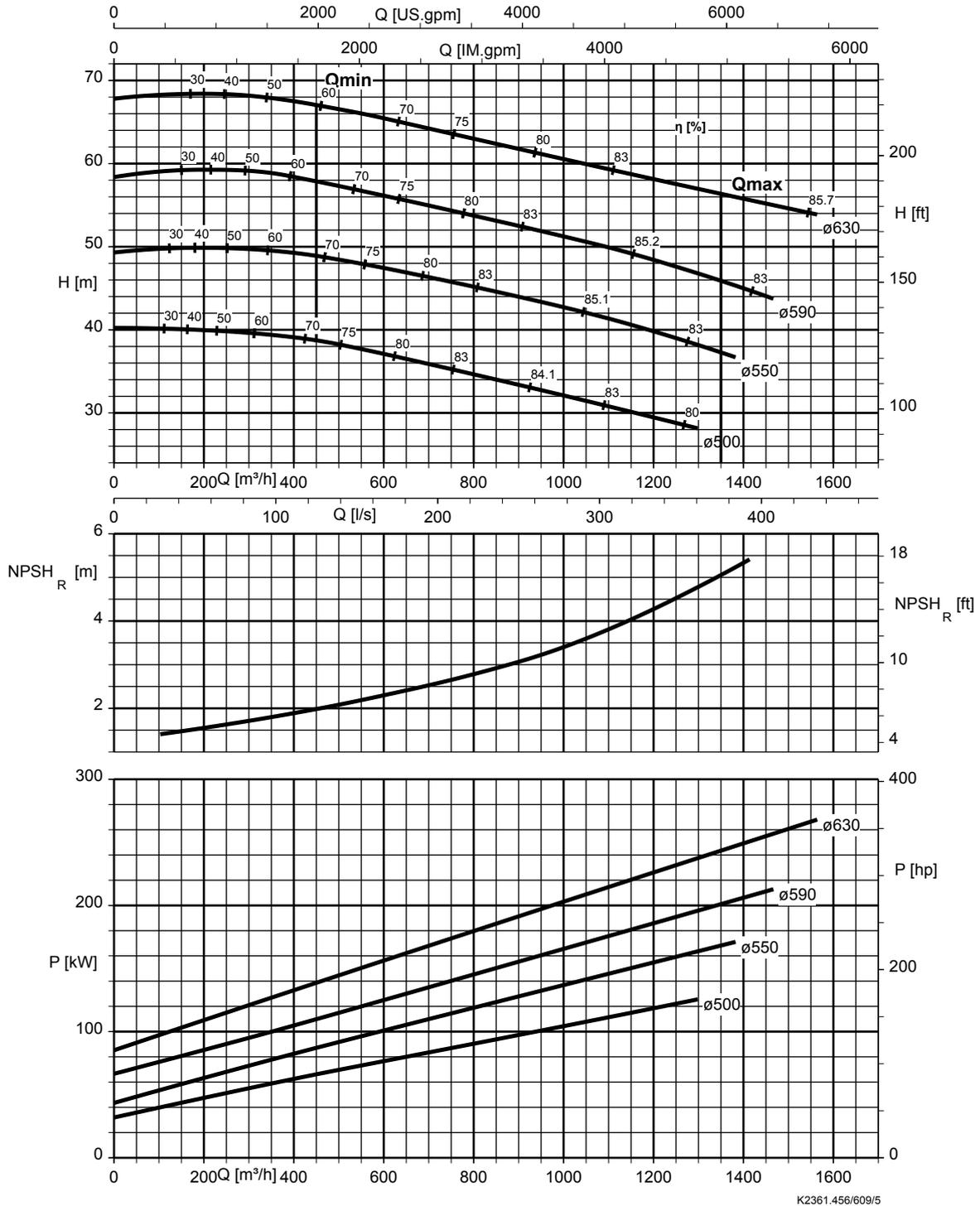


KWP K 250-250-505, n = 960 rpm

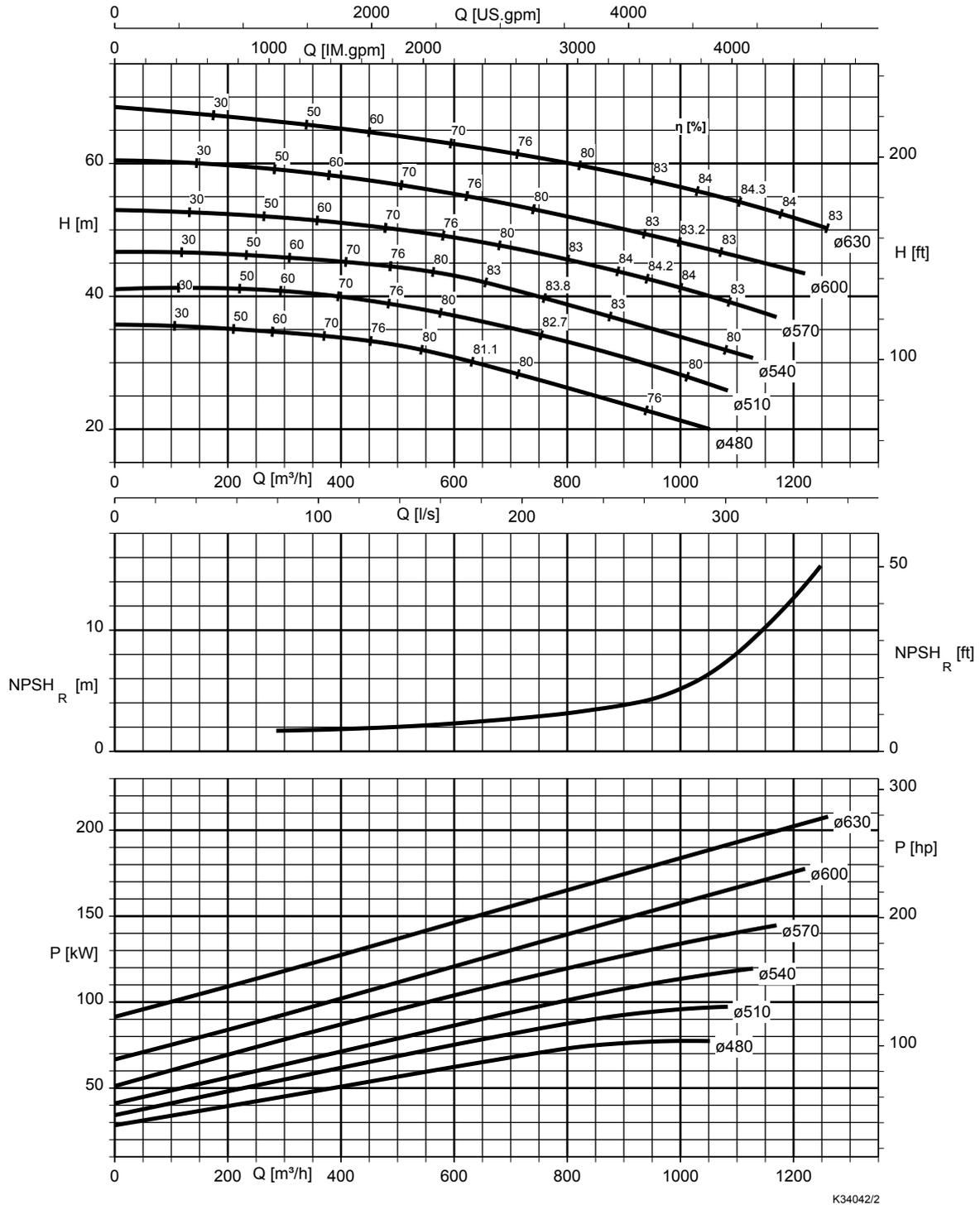


K34008/2

KWP K 250-250-630, n = 960 rpm

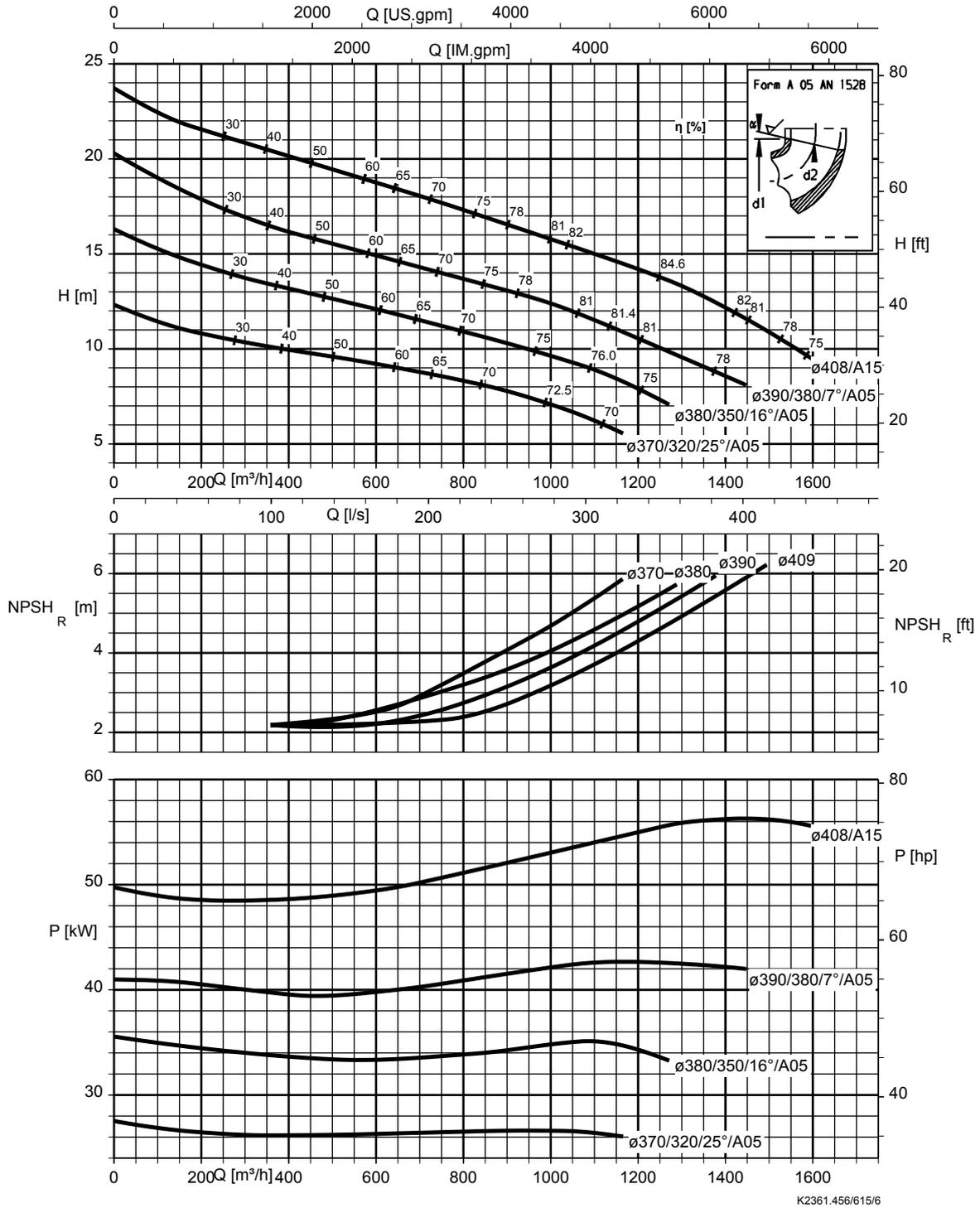


KWP K 250-250-634, n = 960 rpm



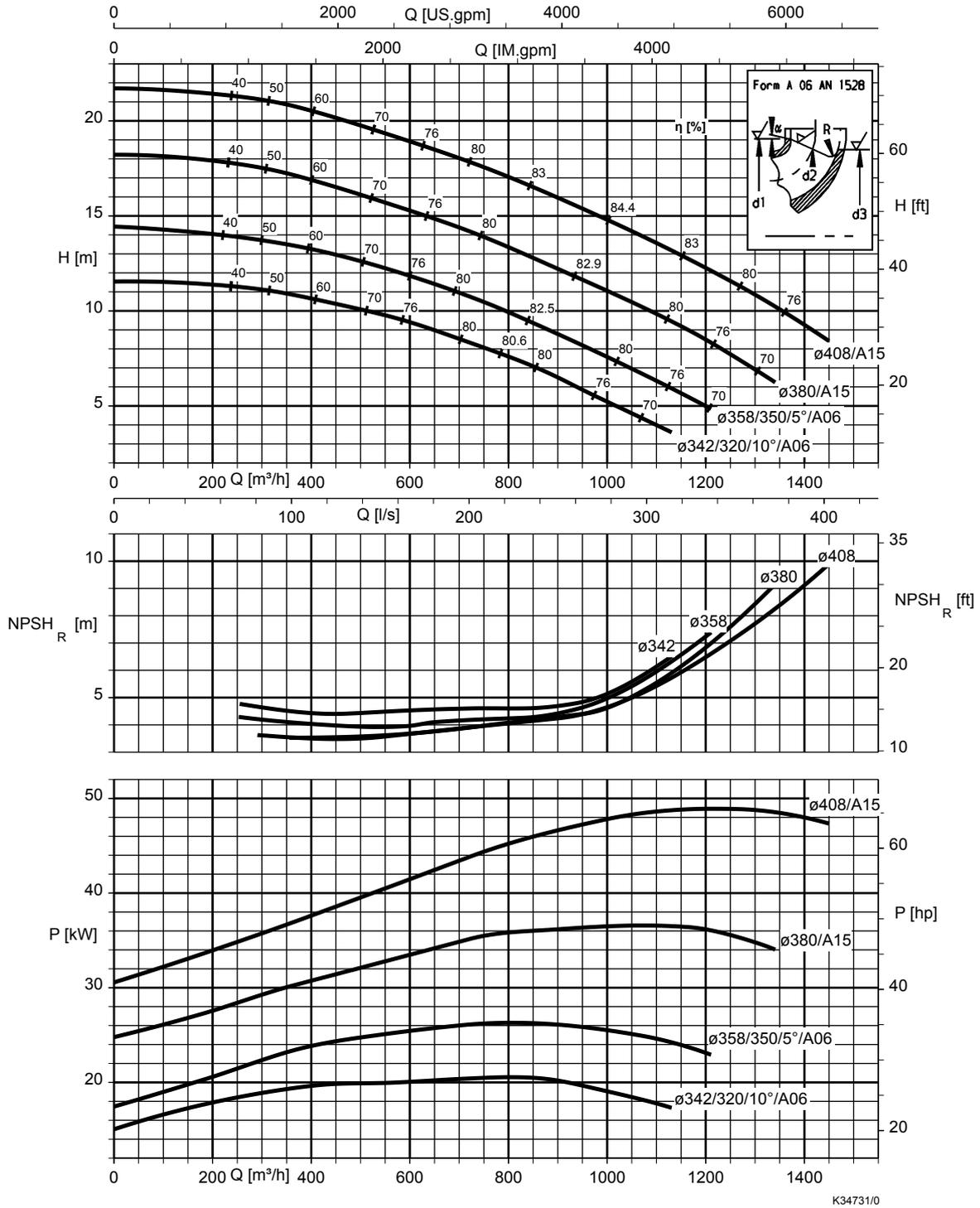
K34042/2

KWP K 300-300-400, n = 960 rpm

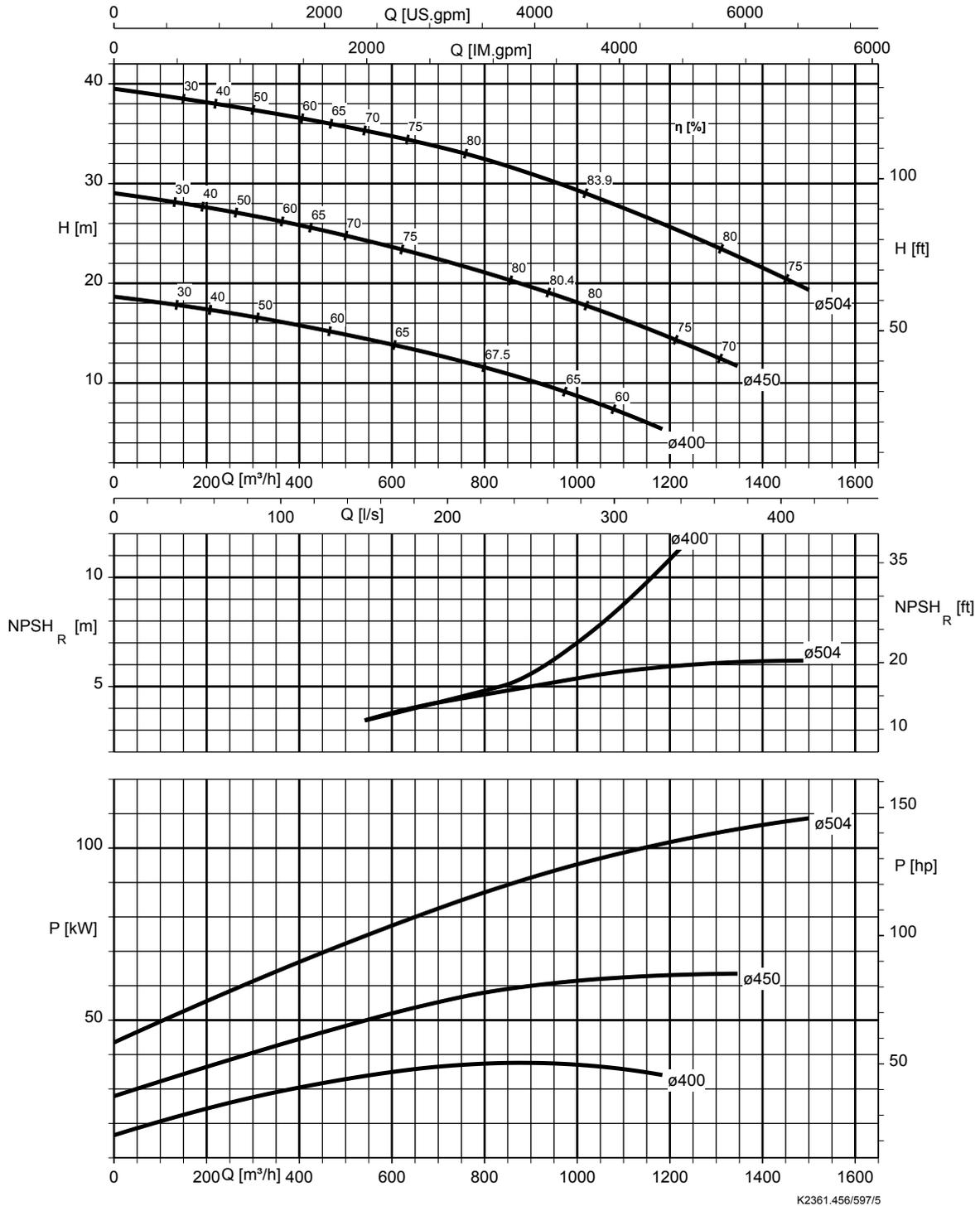


K2361.456/615/6

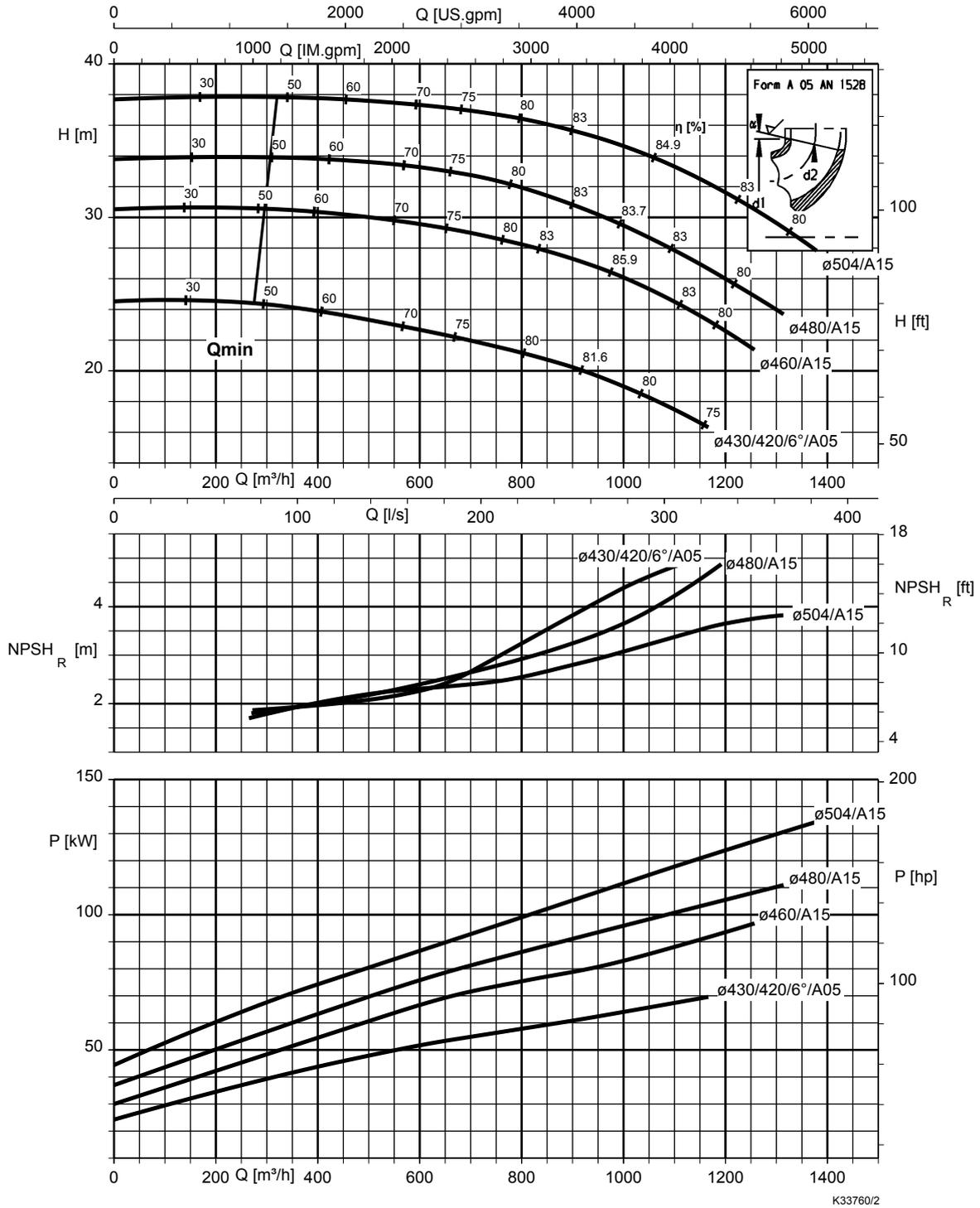
KWP K 300-300-401, n = 960 rpm



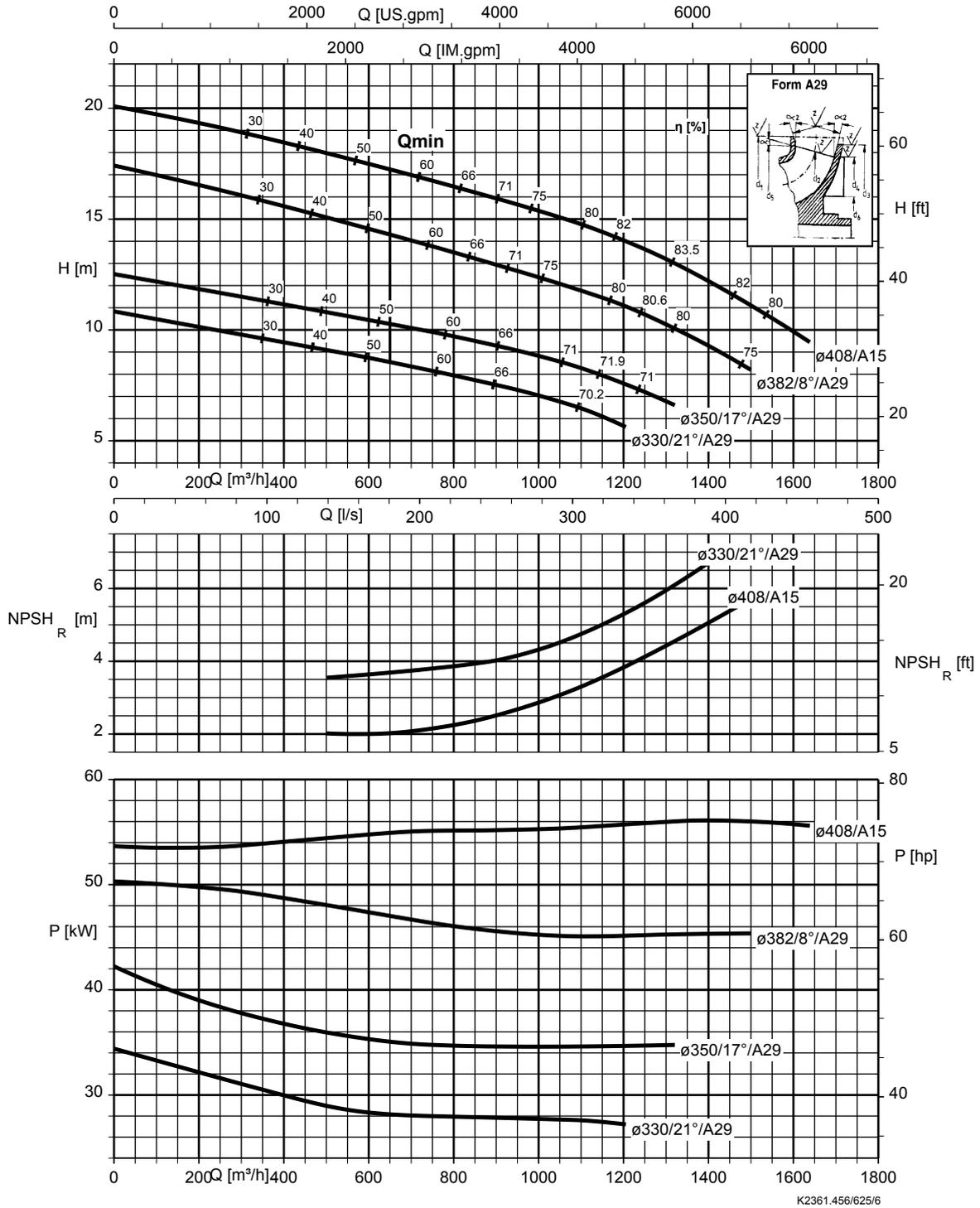
KWP K 300-300-500, n = 960 rpm



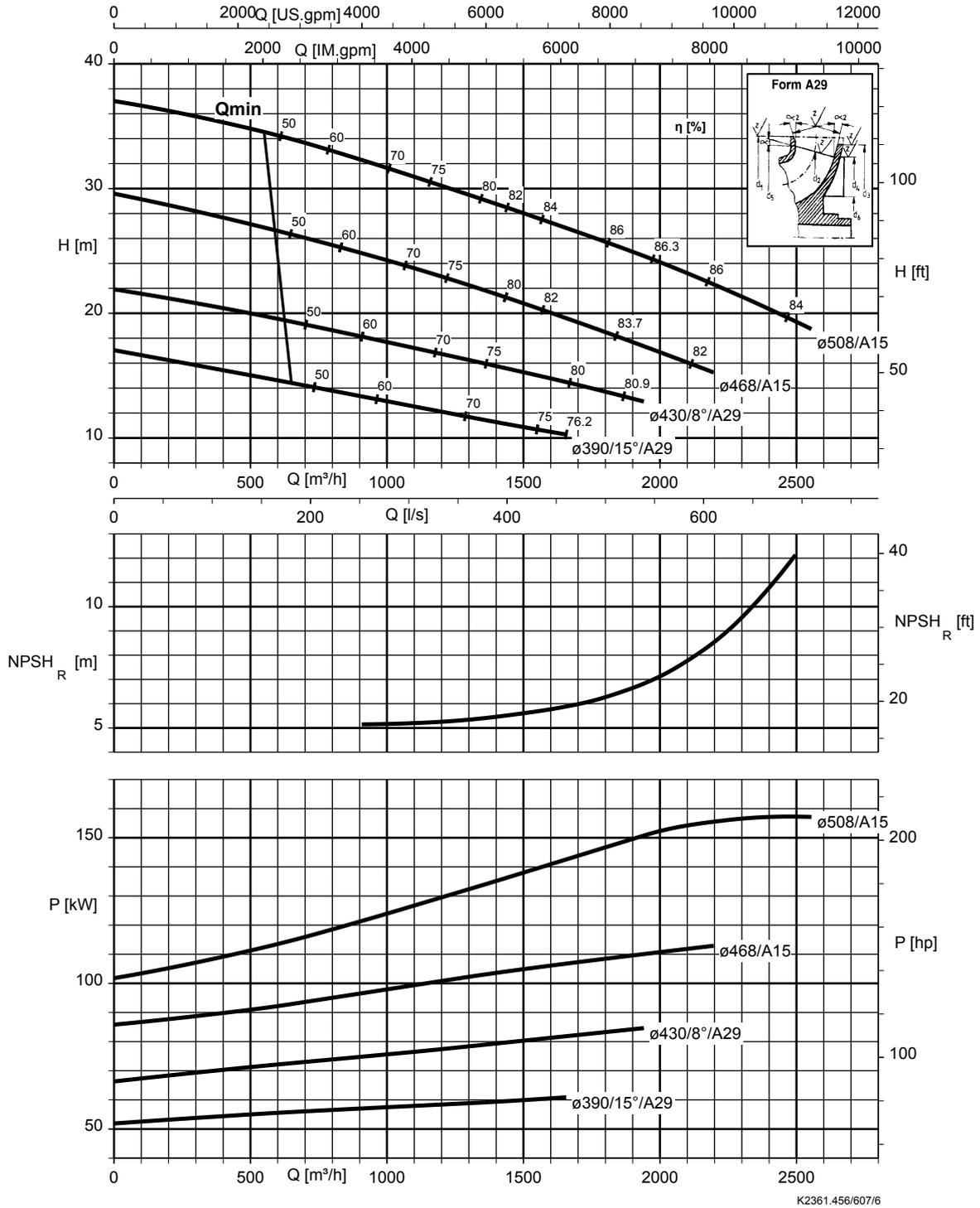
KWP K 300-300-503, n = 960 rpm



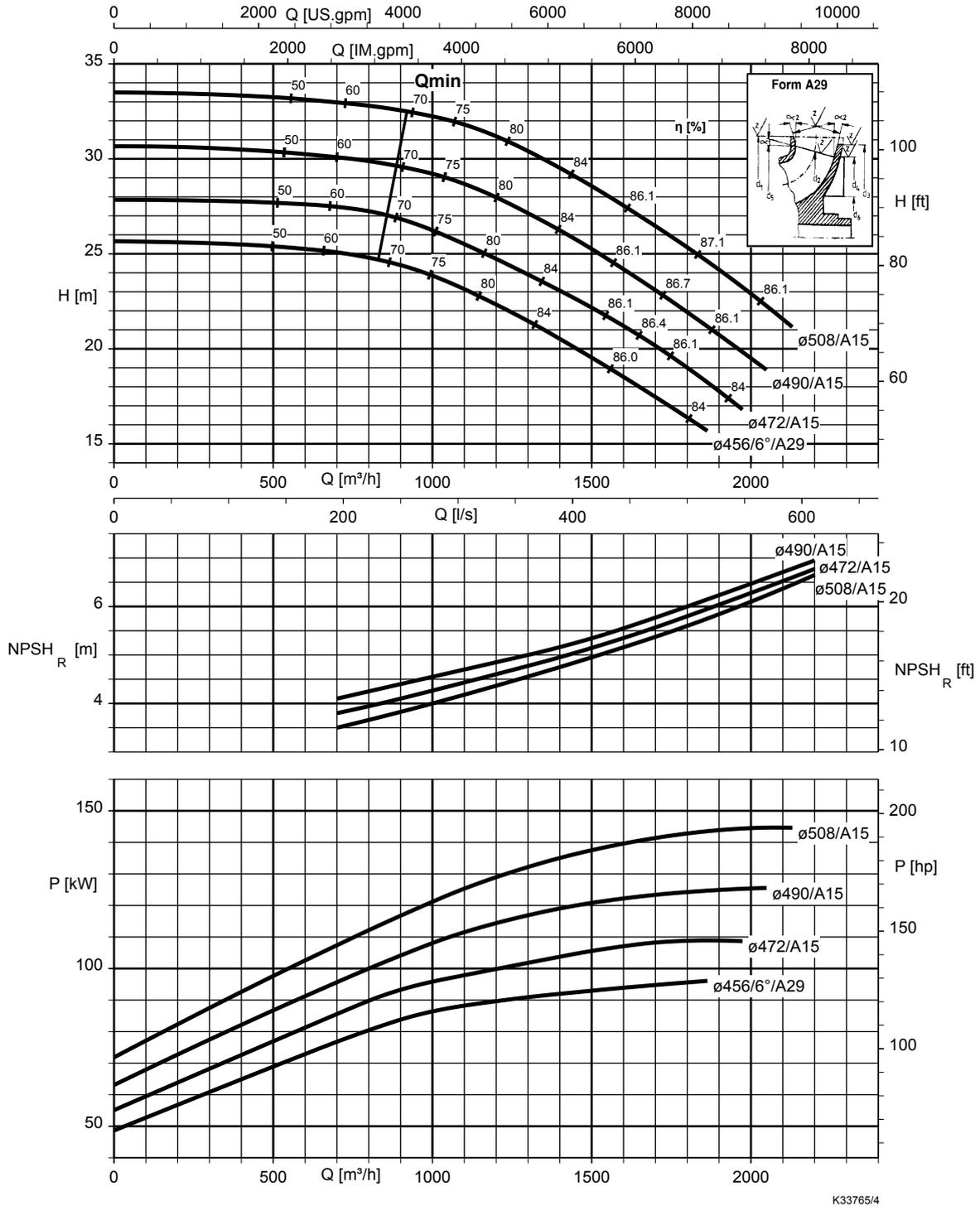
KWP K 350-350-400, n = 960 rpm



KWP K 350-350-500, n = 960 rpm

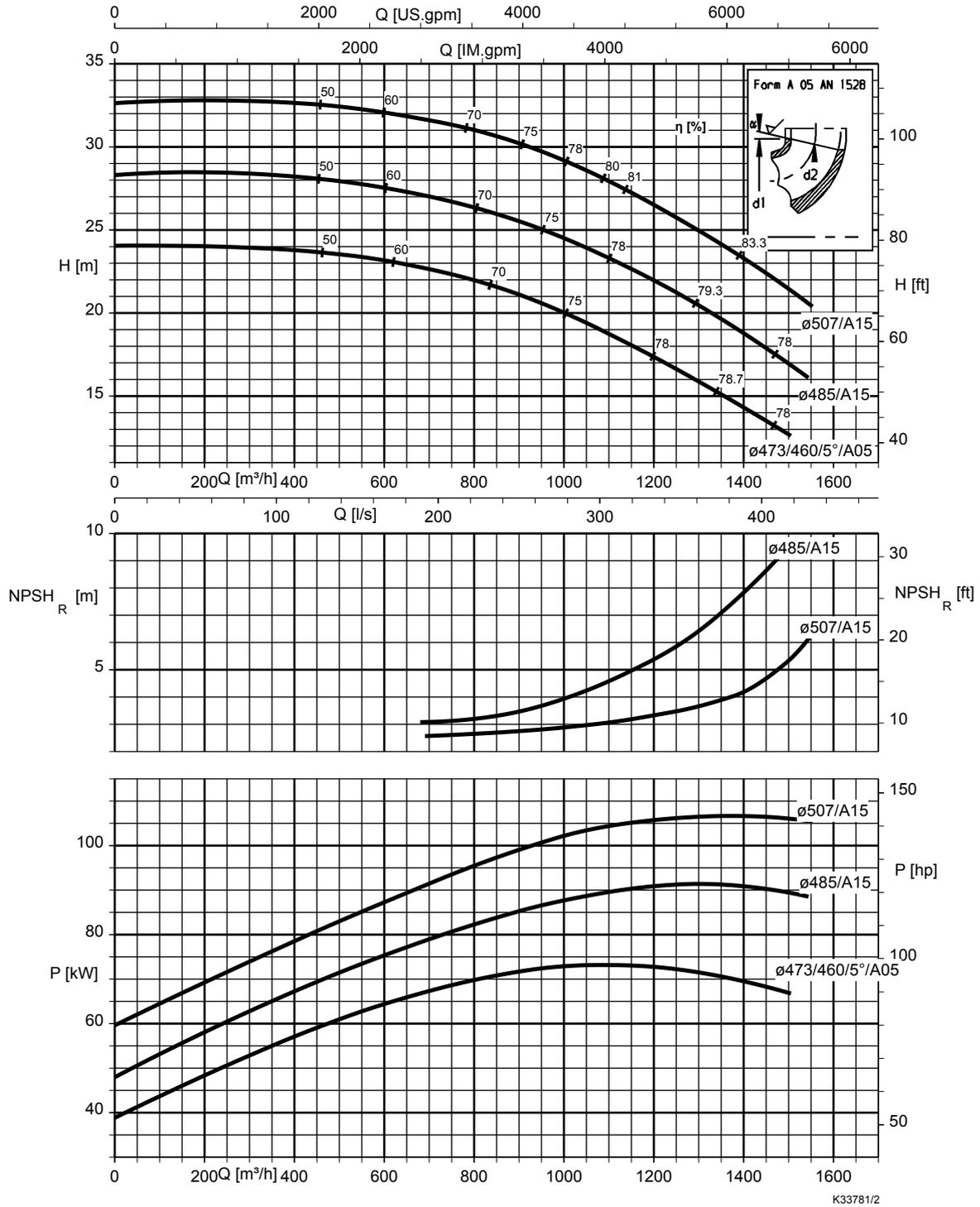


KWP K 350-350-503, n = 960 rpm

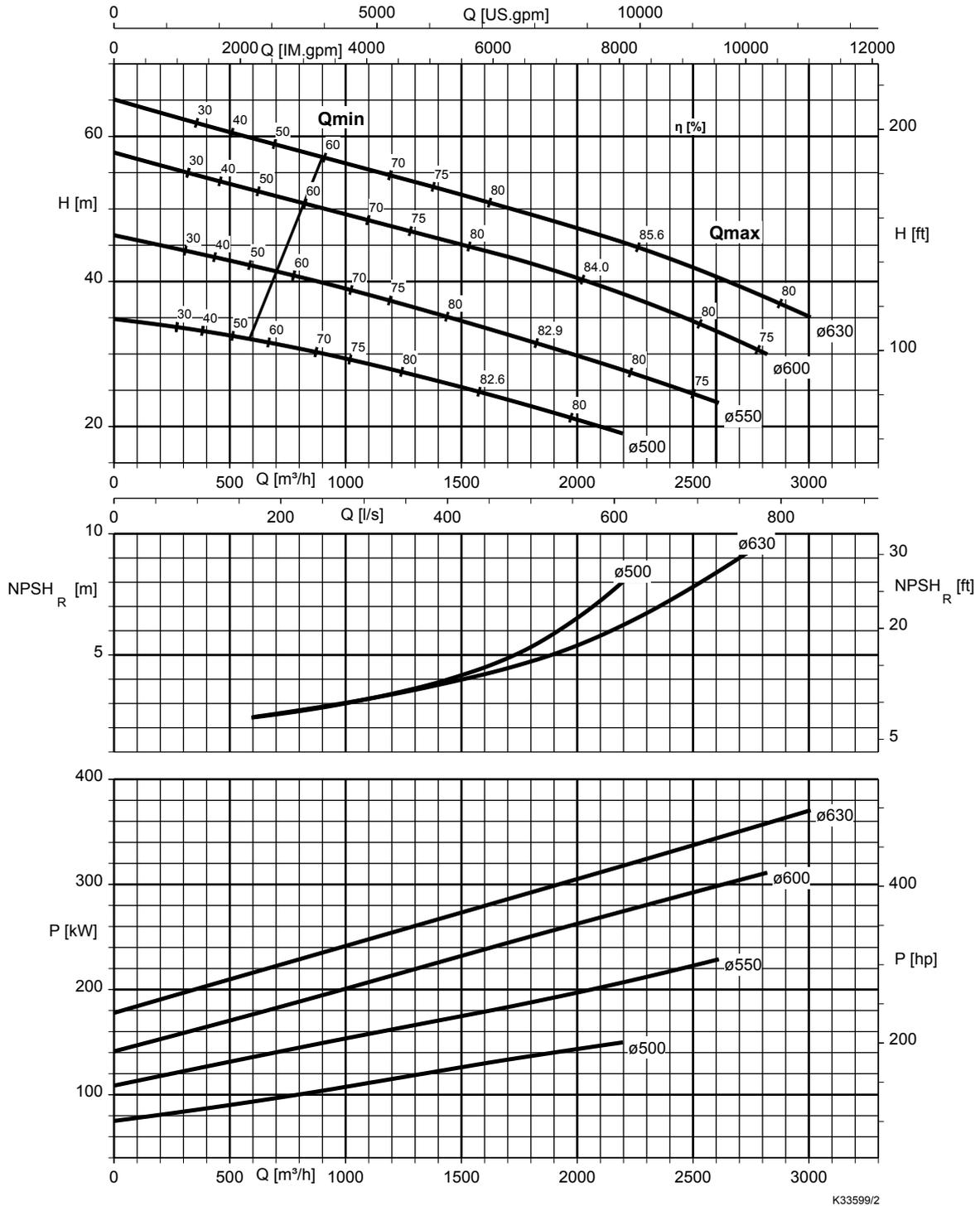


K33765/4

KWP K 350-350-504, n = 960 rpm

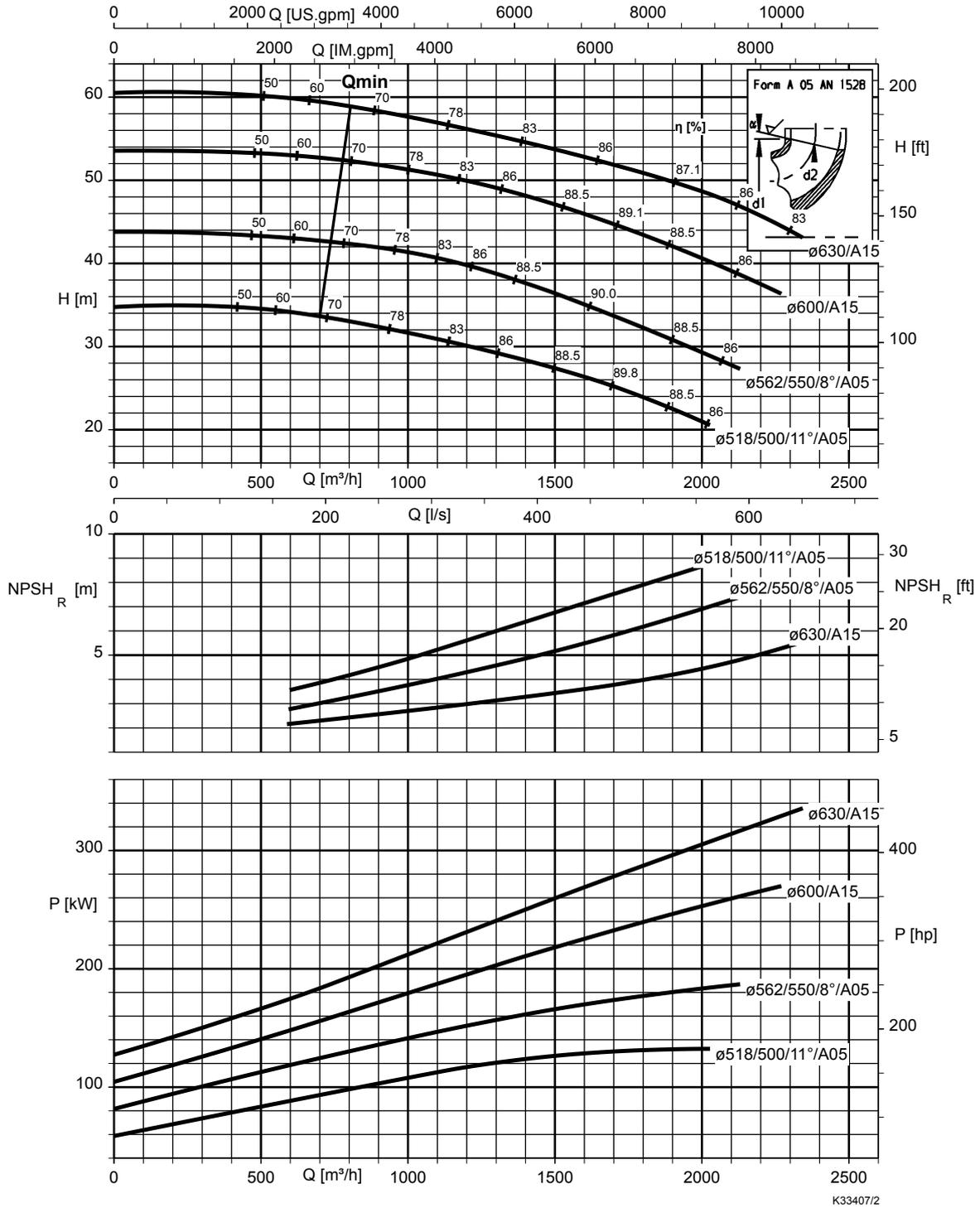


KWP K 350-350-630, n = 960 rpm

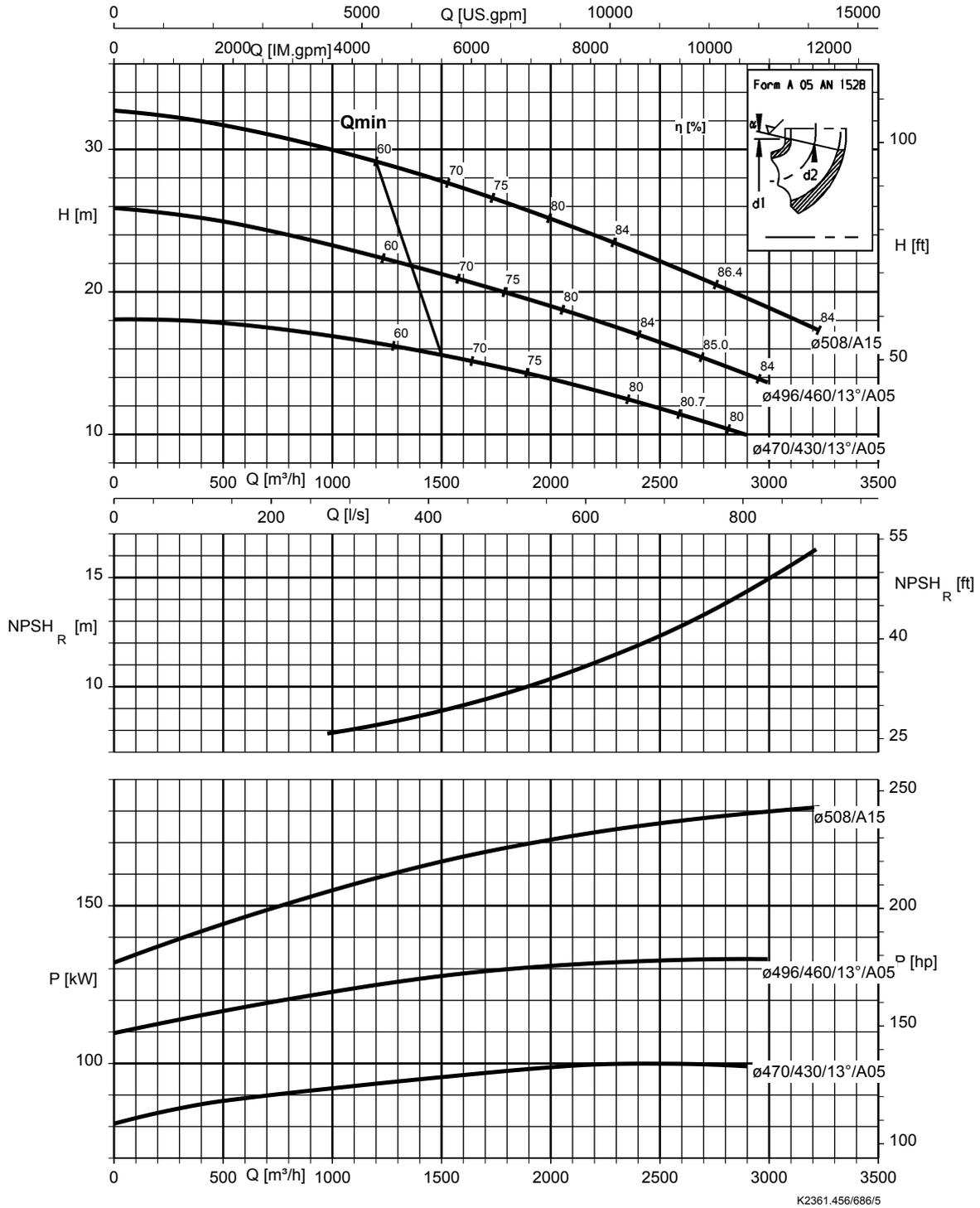


K33599/2

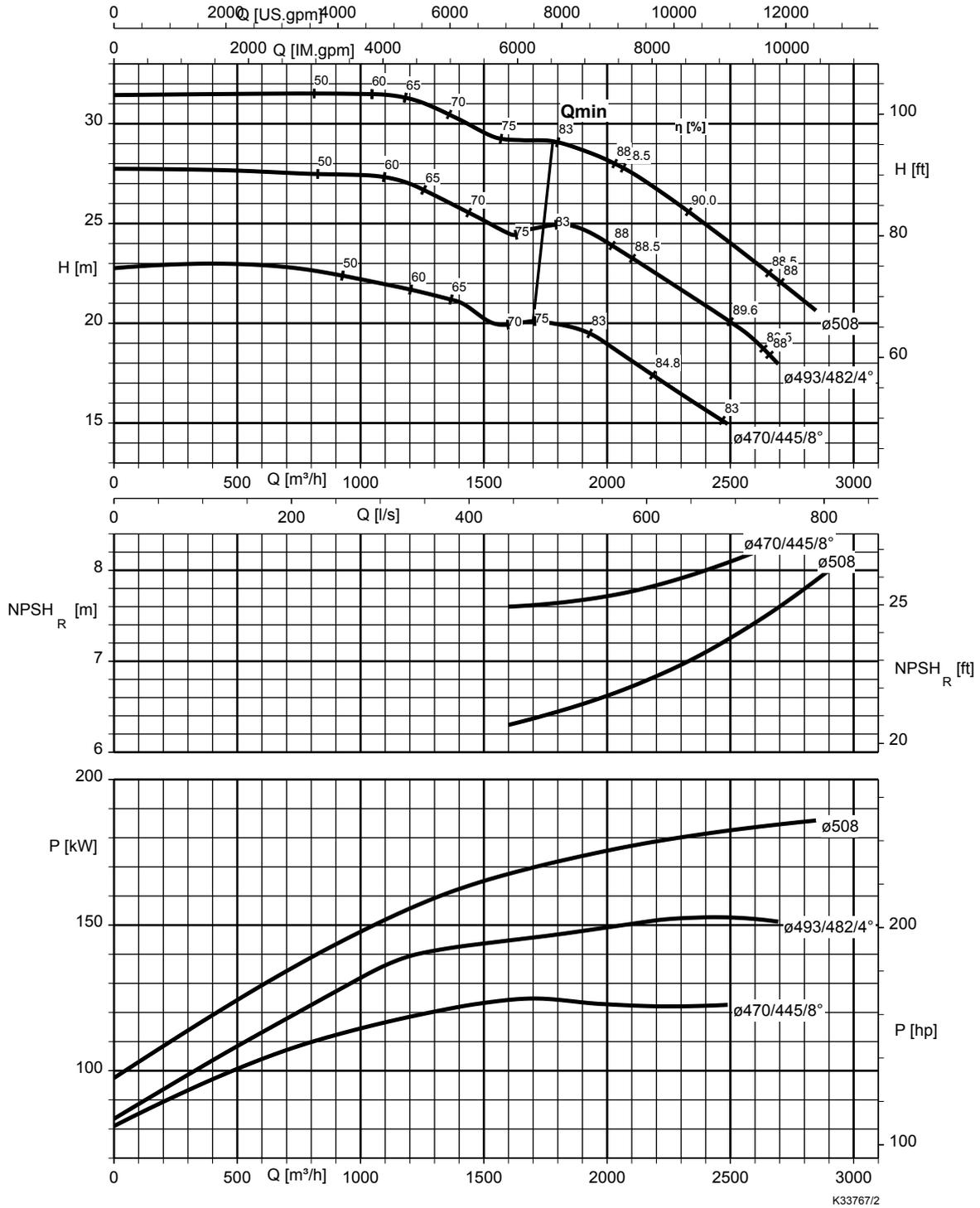
KWP K 350-350-633, n = 960 rpm



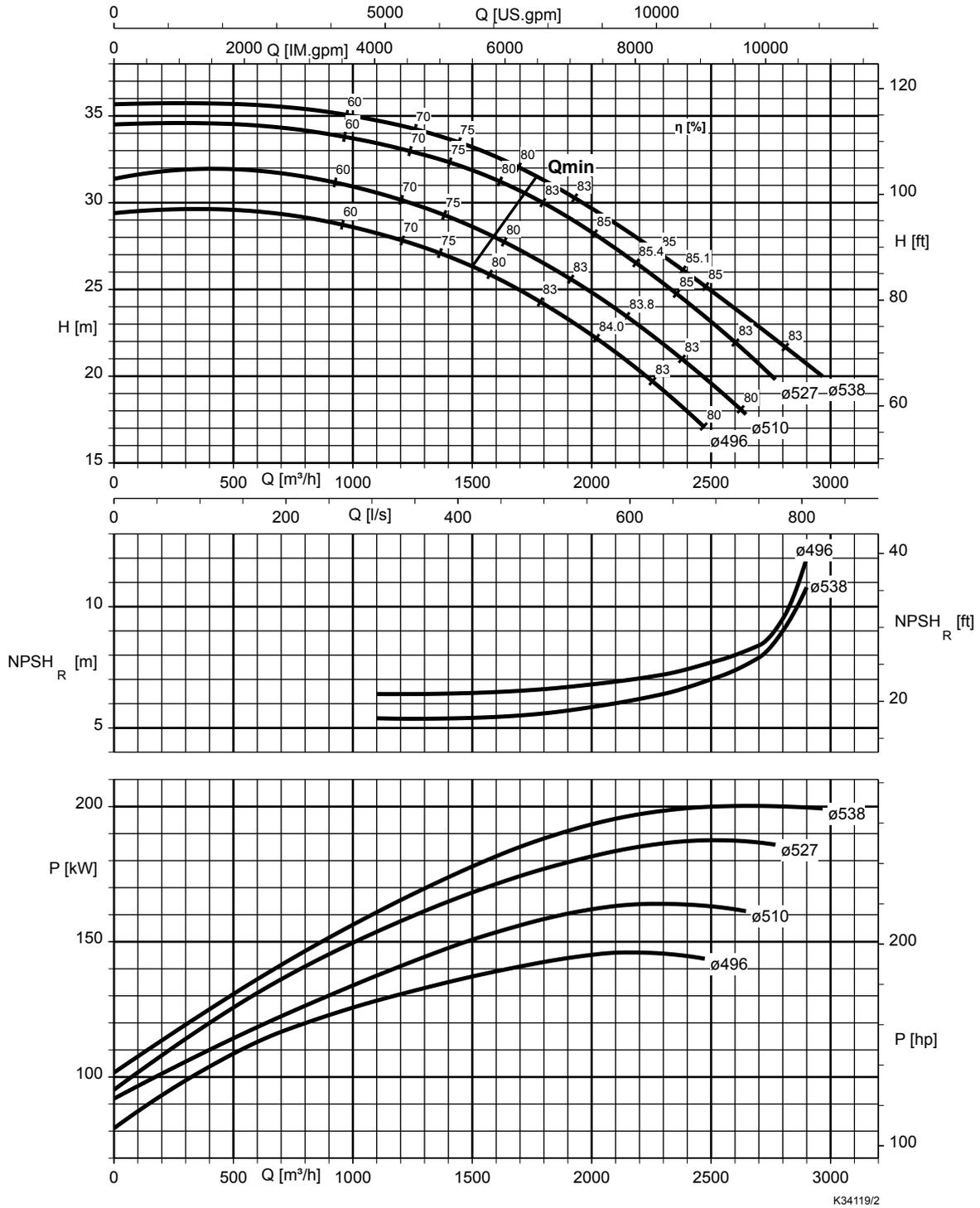
KWP K 400-400-500, n = 960 rpm



KWP K 400-400-503, n = 960 rpm

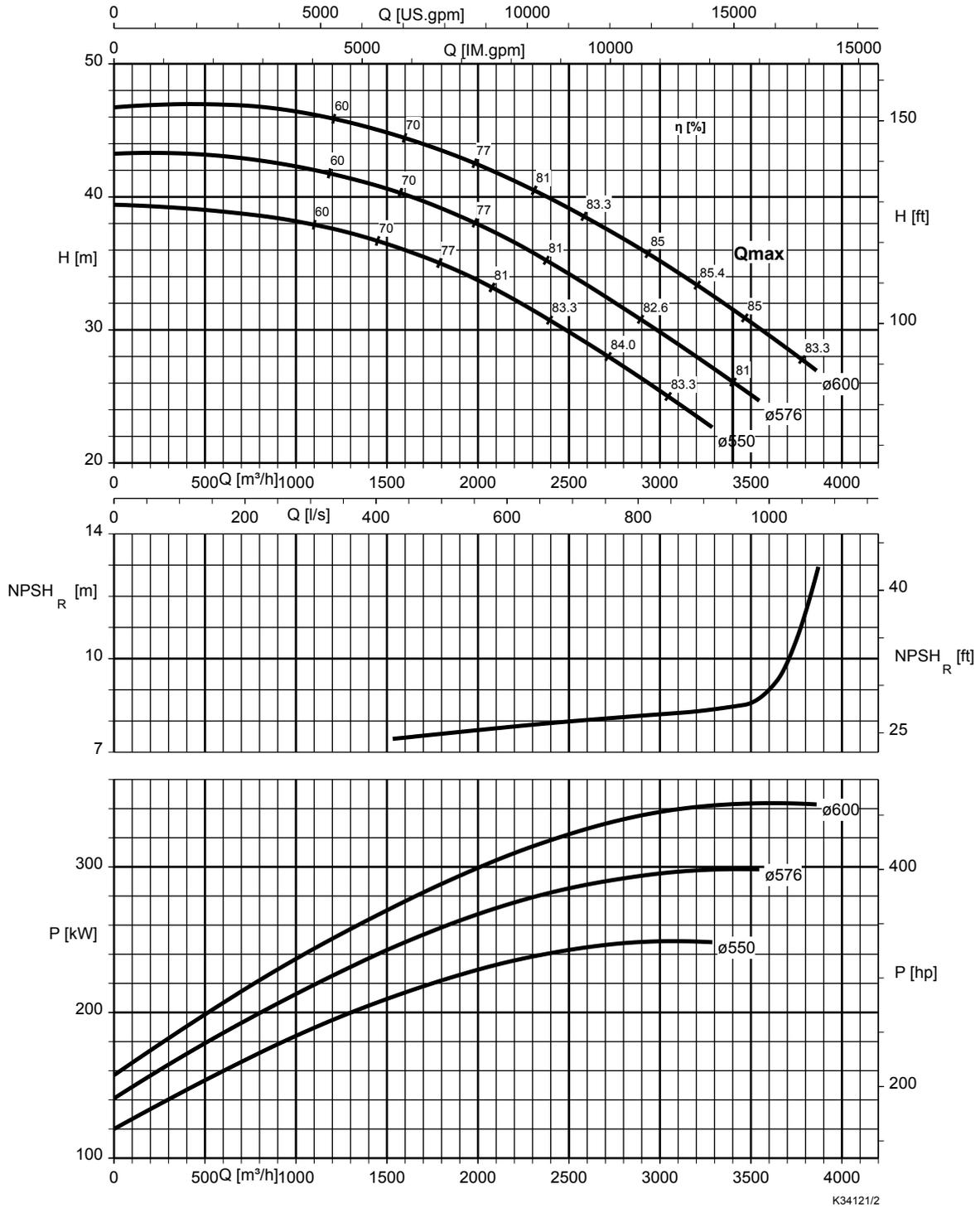


KWP K 400-400-533, n = 960 rpm



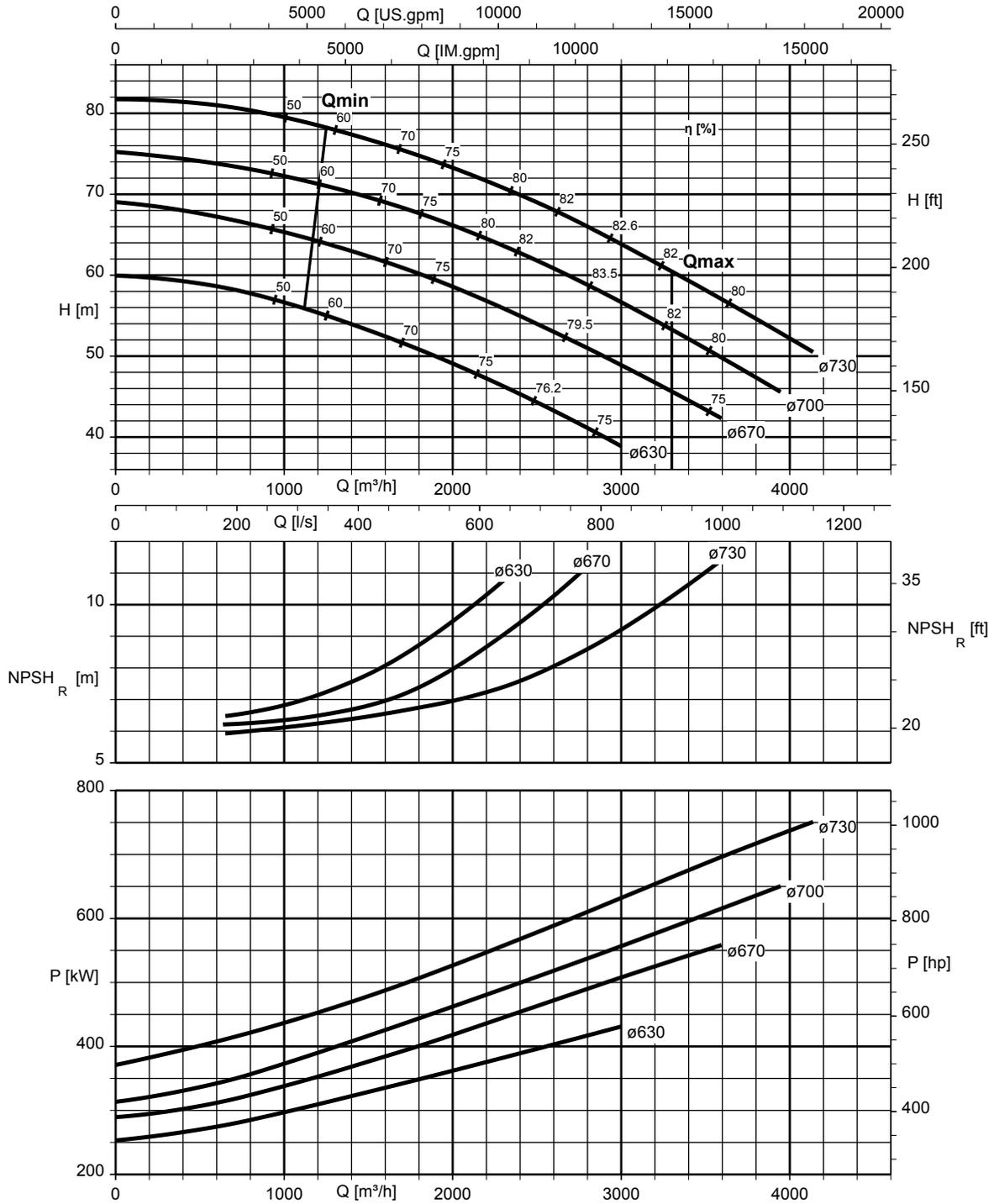
K34119/2

KWP K 400-400-583, n = 960 rpm



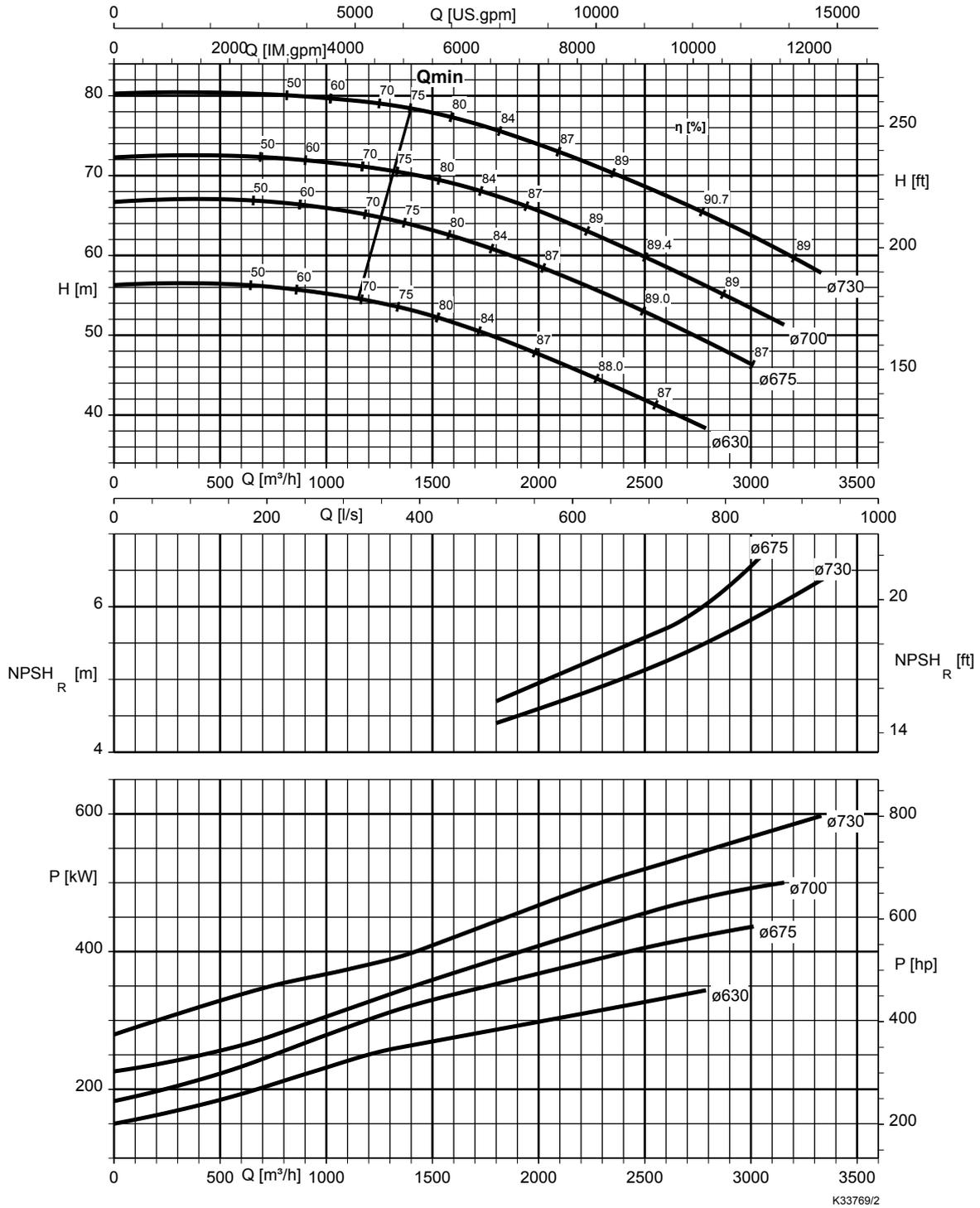
K34121/2

KWP K 500-400-710, n = 960 rpm



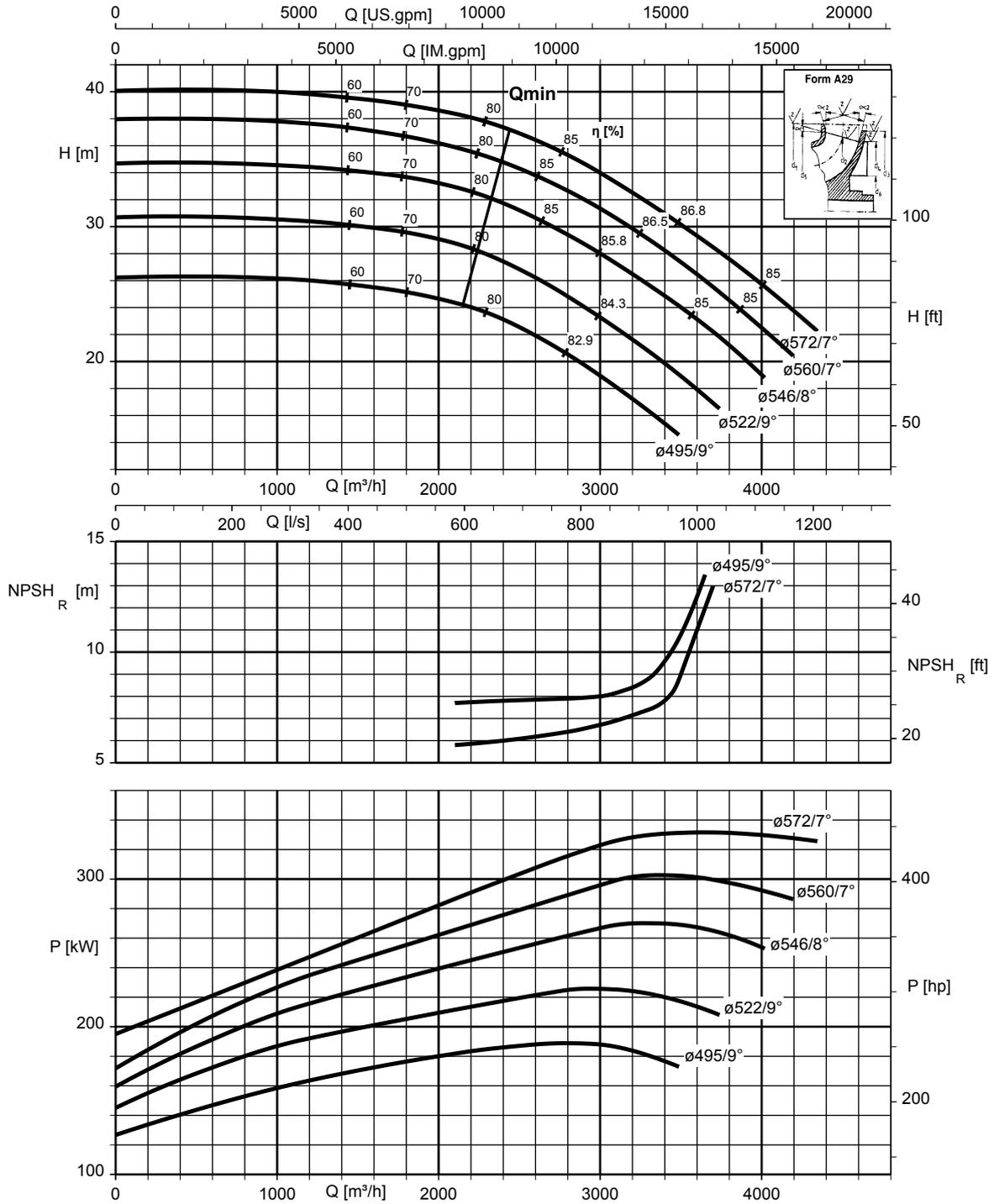
K2361.456/669/4

KWP K 500-400-713, n = 960 rpm



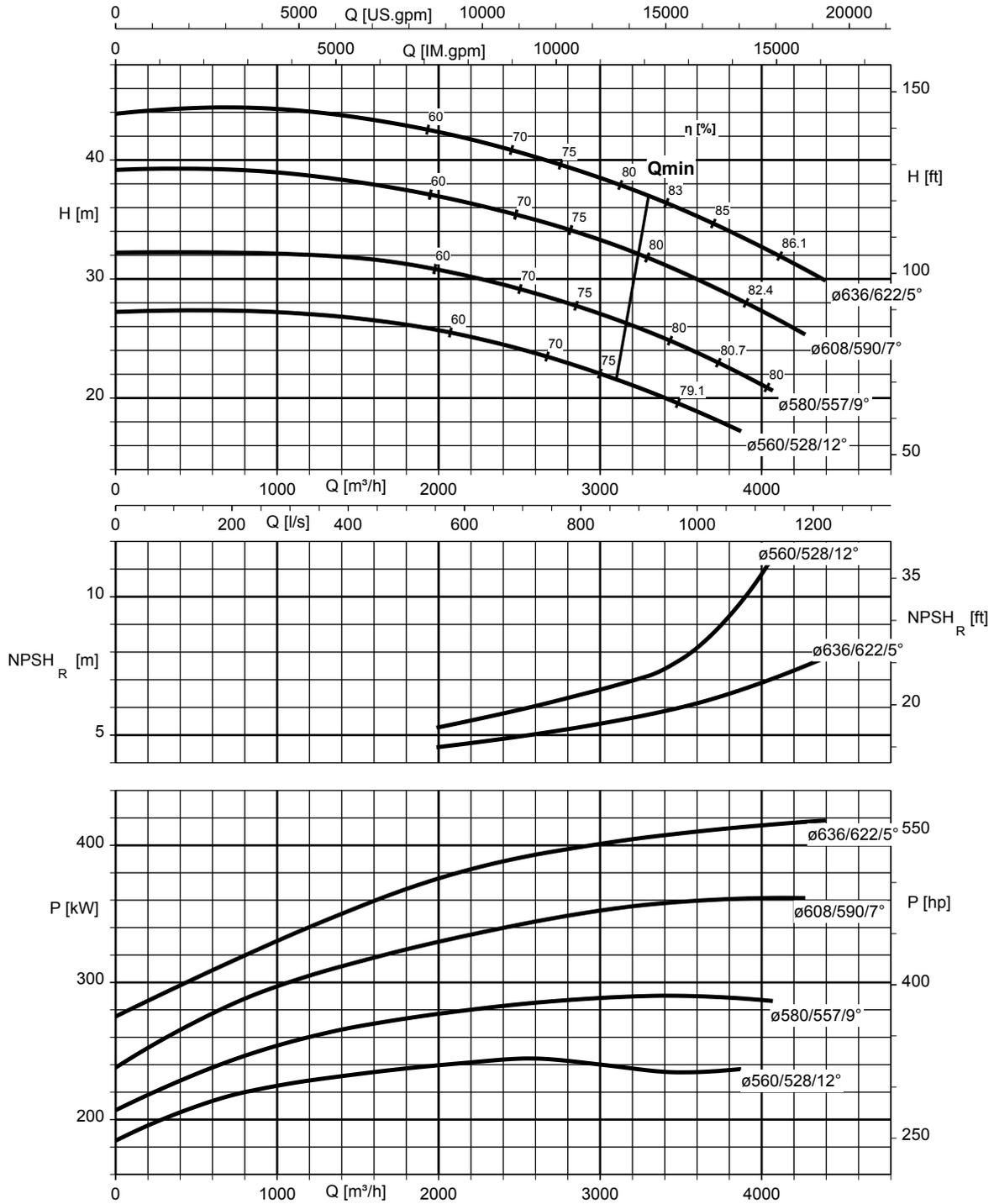
K33769/2

KWP K 500-500-544, n = 960 rpm

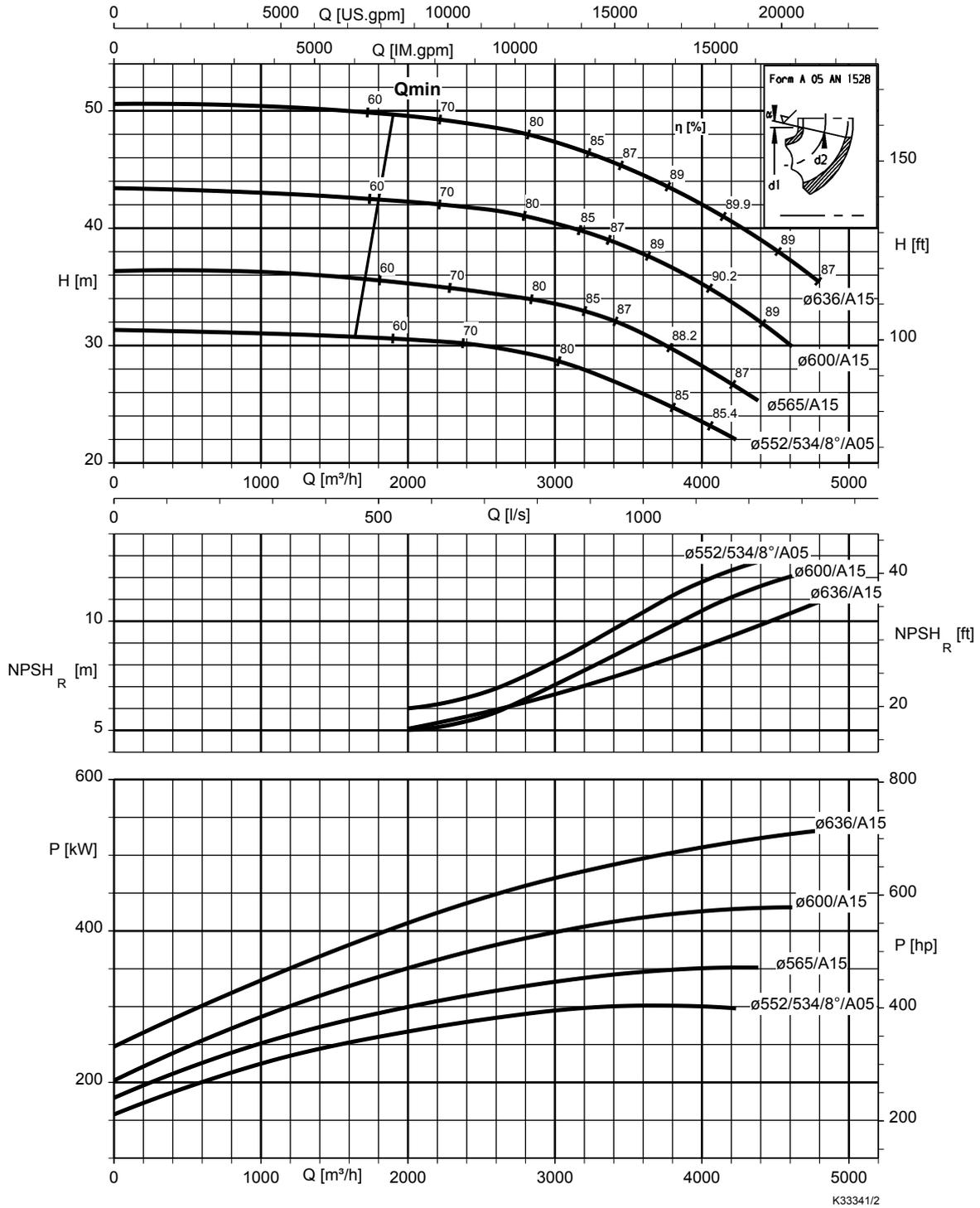


K34046/6

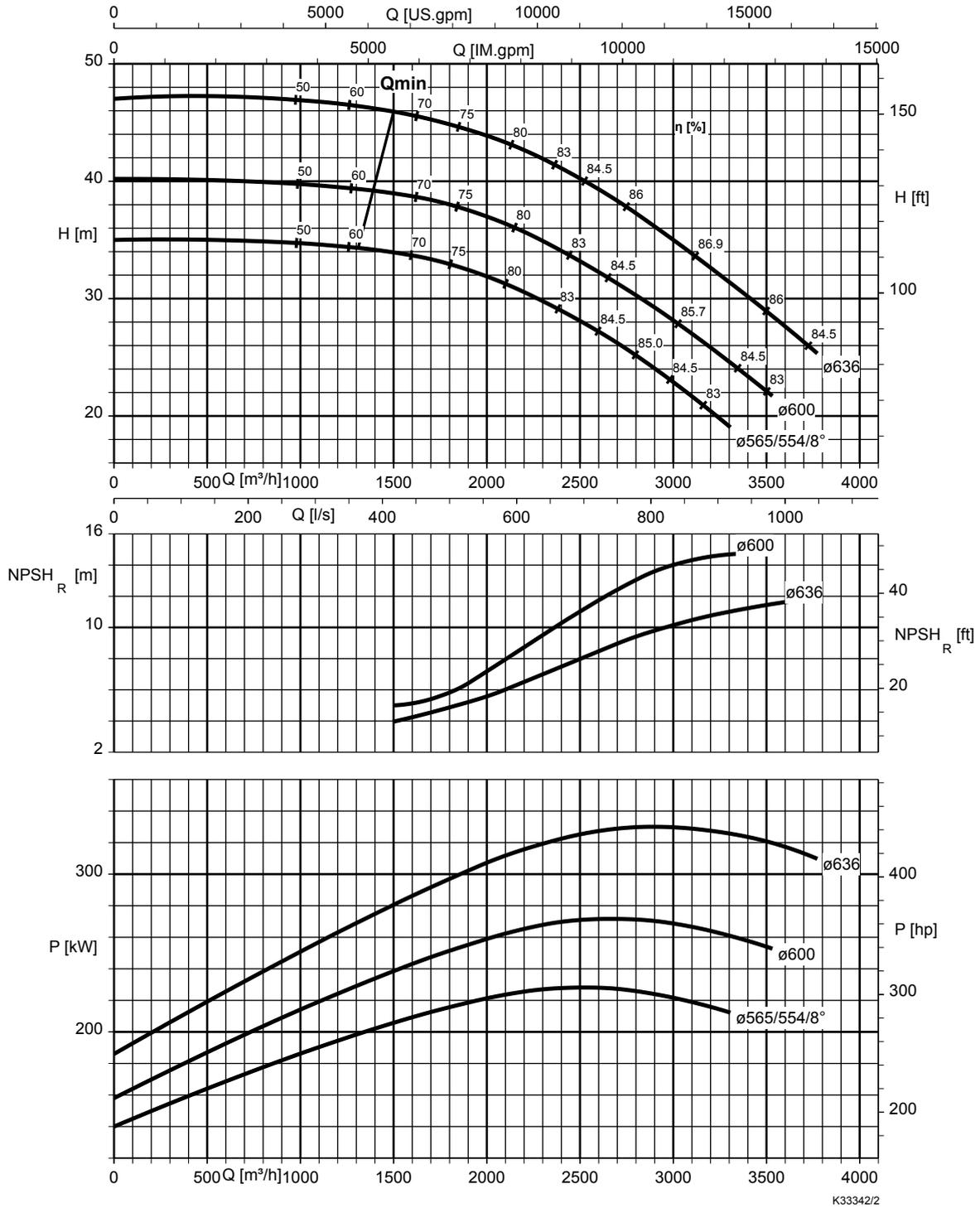
KWP K 500-500-630, n = 960 rpm



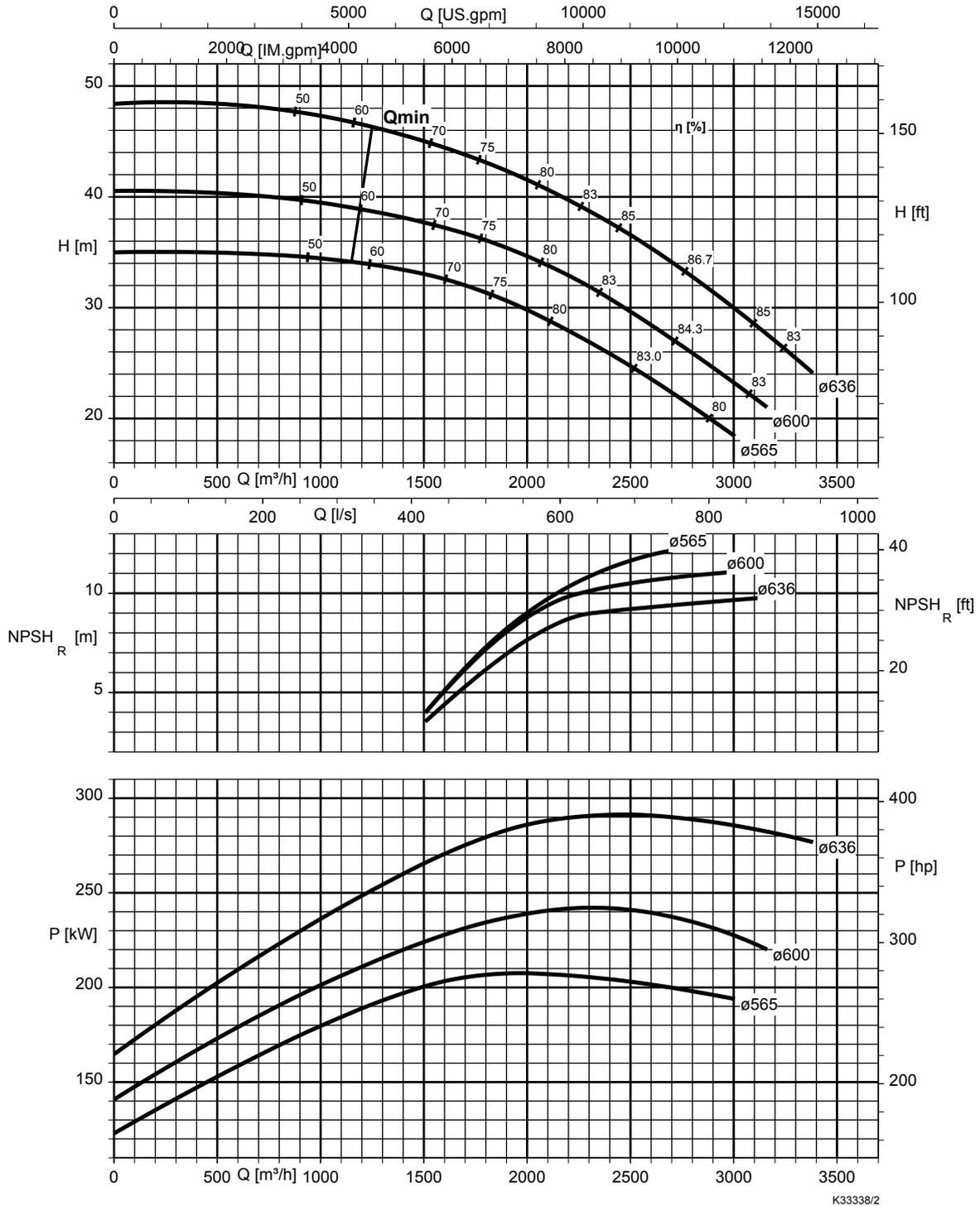
KWP K 500-500-633, n = 960 rpm



KWP K 500-500-634, n = 960 rpm

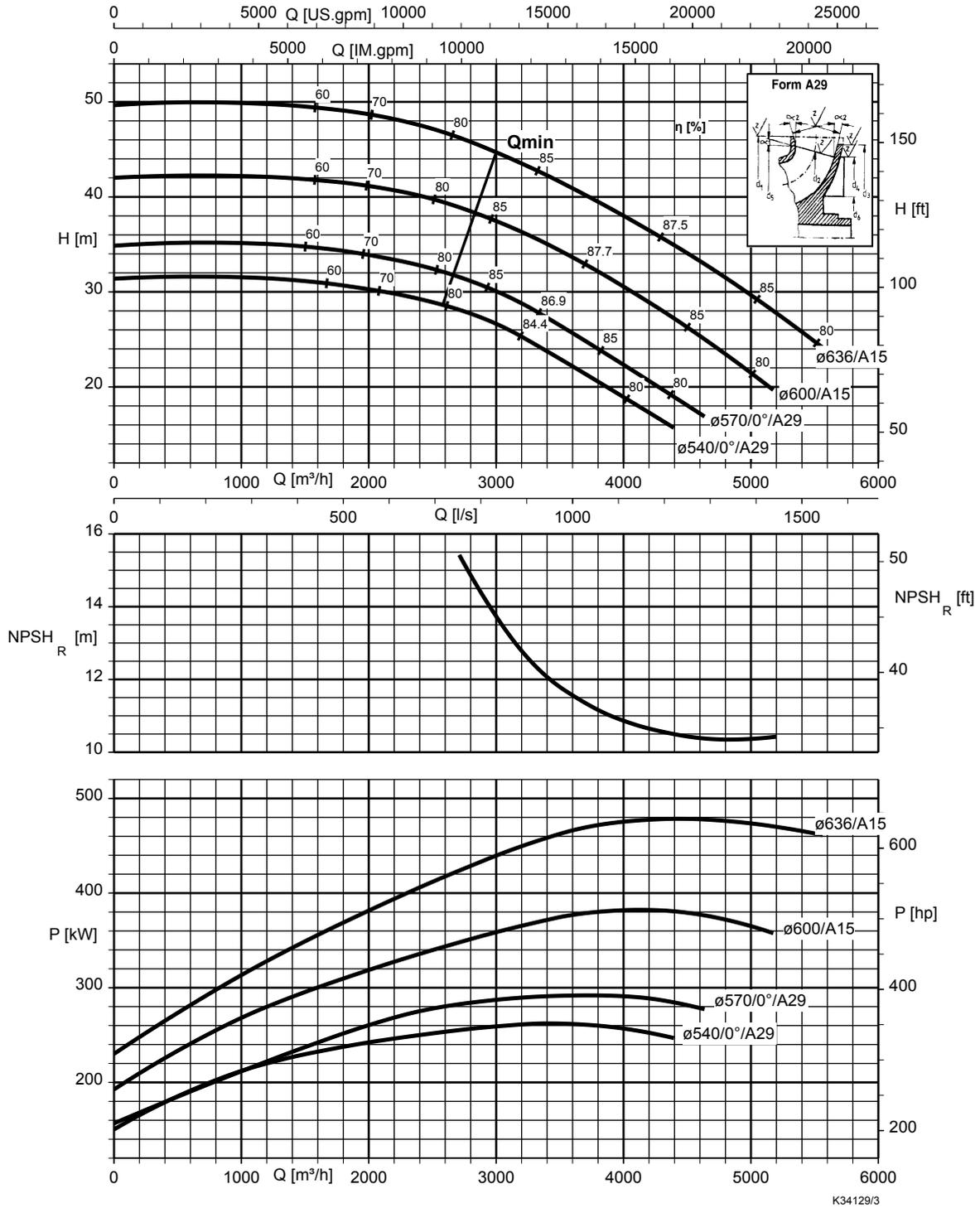


KWP K 500-500-635, n = 960 rpm



K33338/2

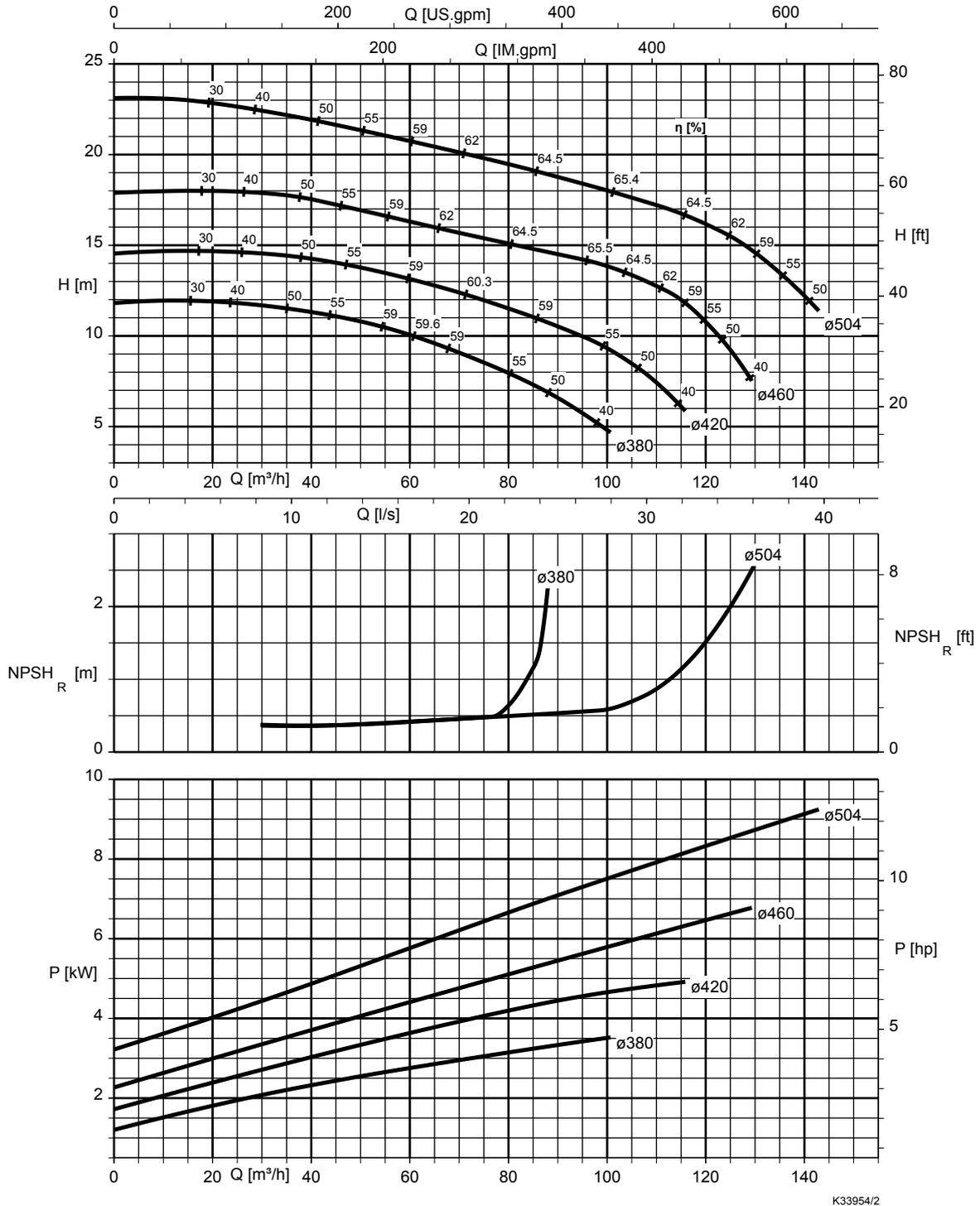
KWP K 500-500-637, n = 960 rpm



K34129/3

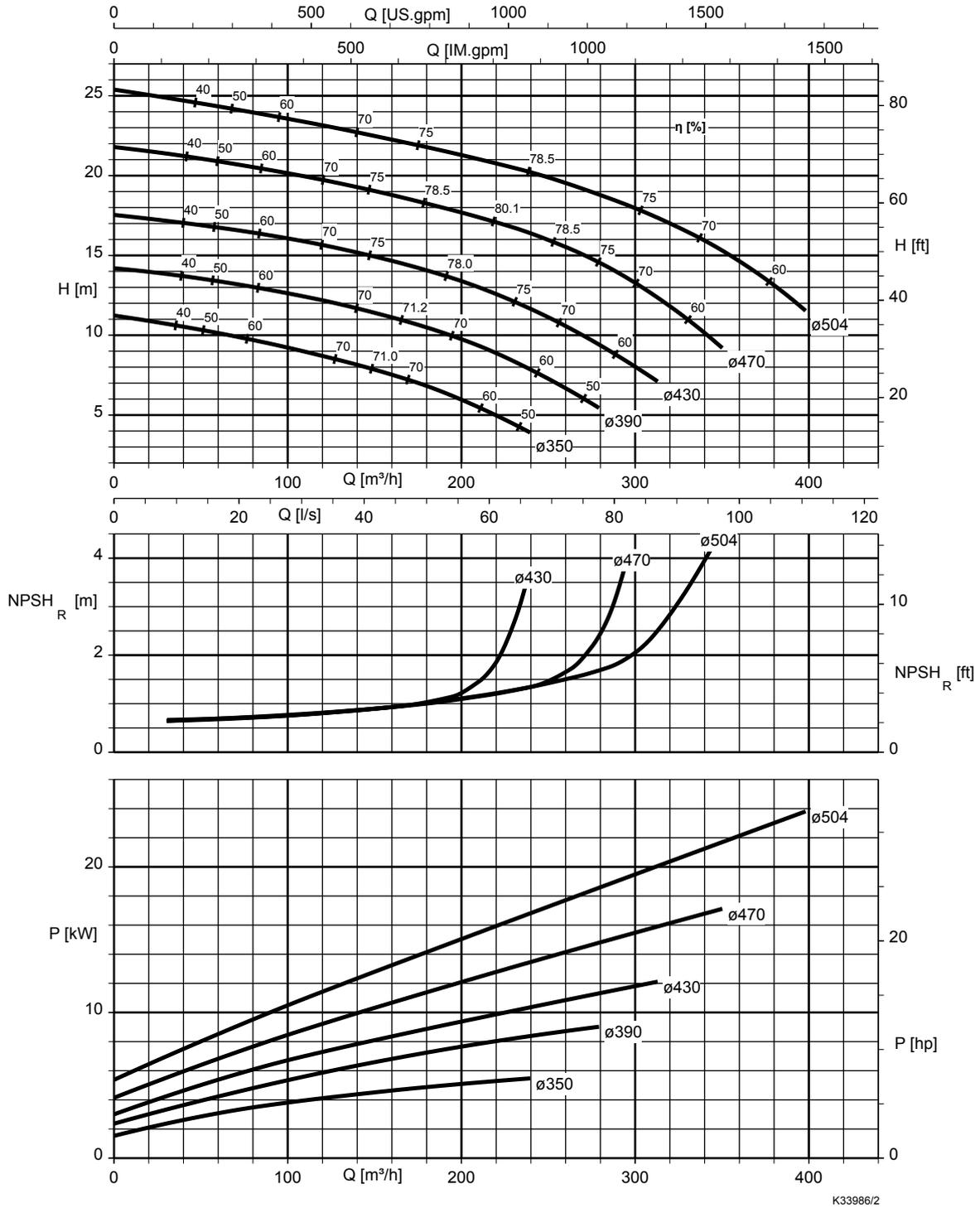
n = 725 rpm

KWP K 125-080-500, n = 725 rpm



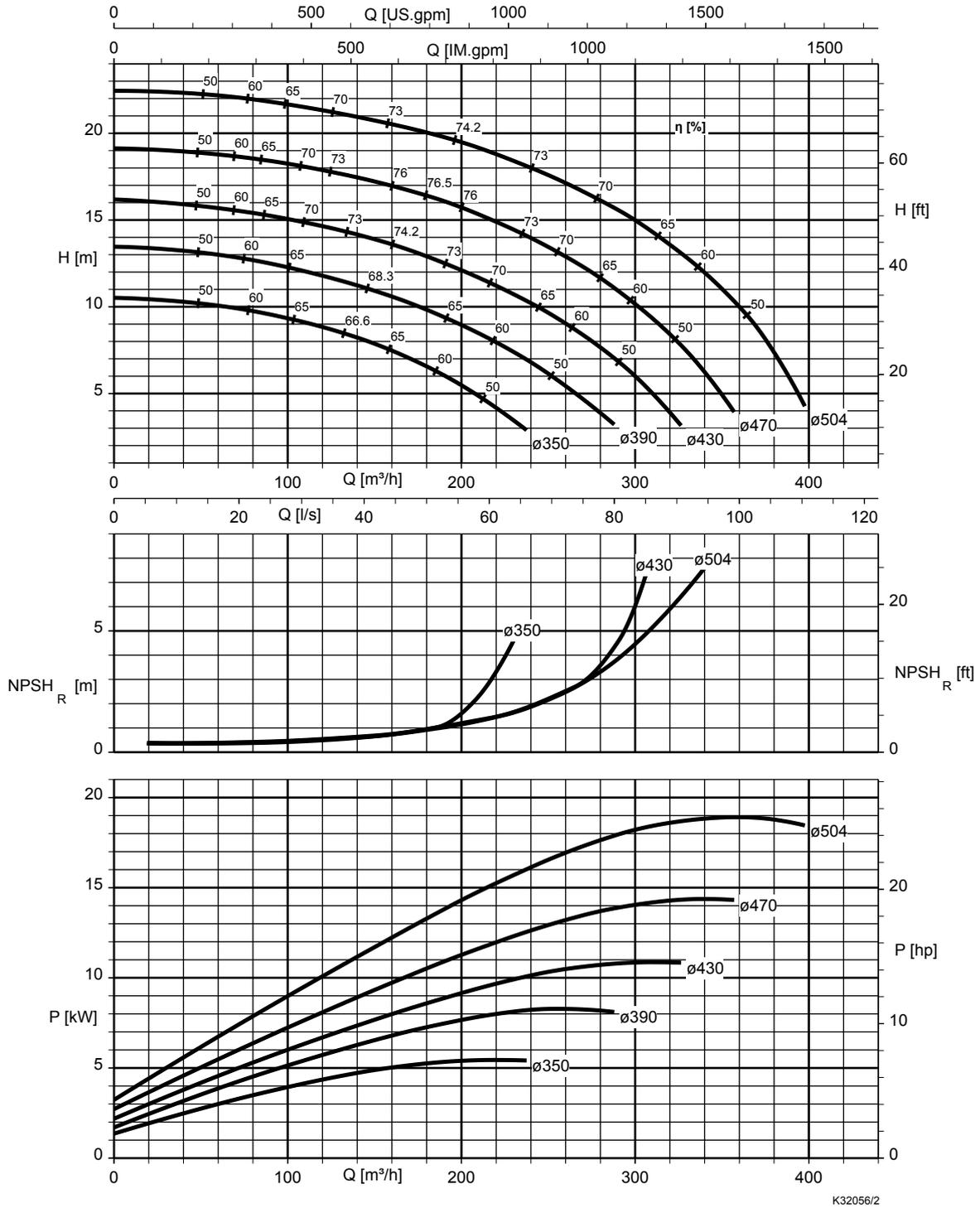
K33954/2

KWP K 150-125-500, n = 725 rpm

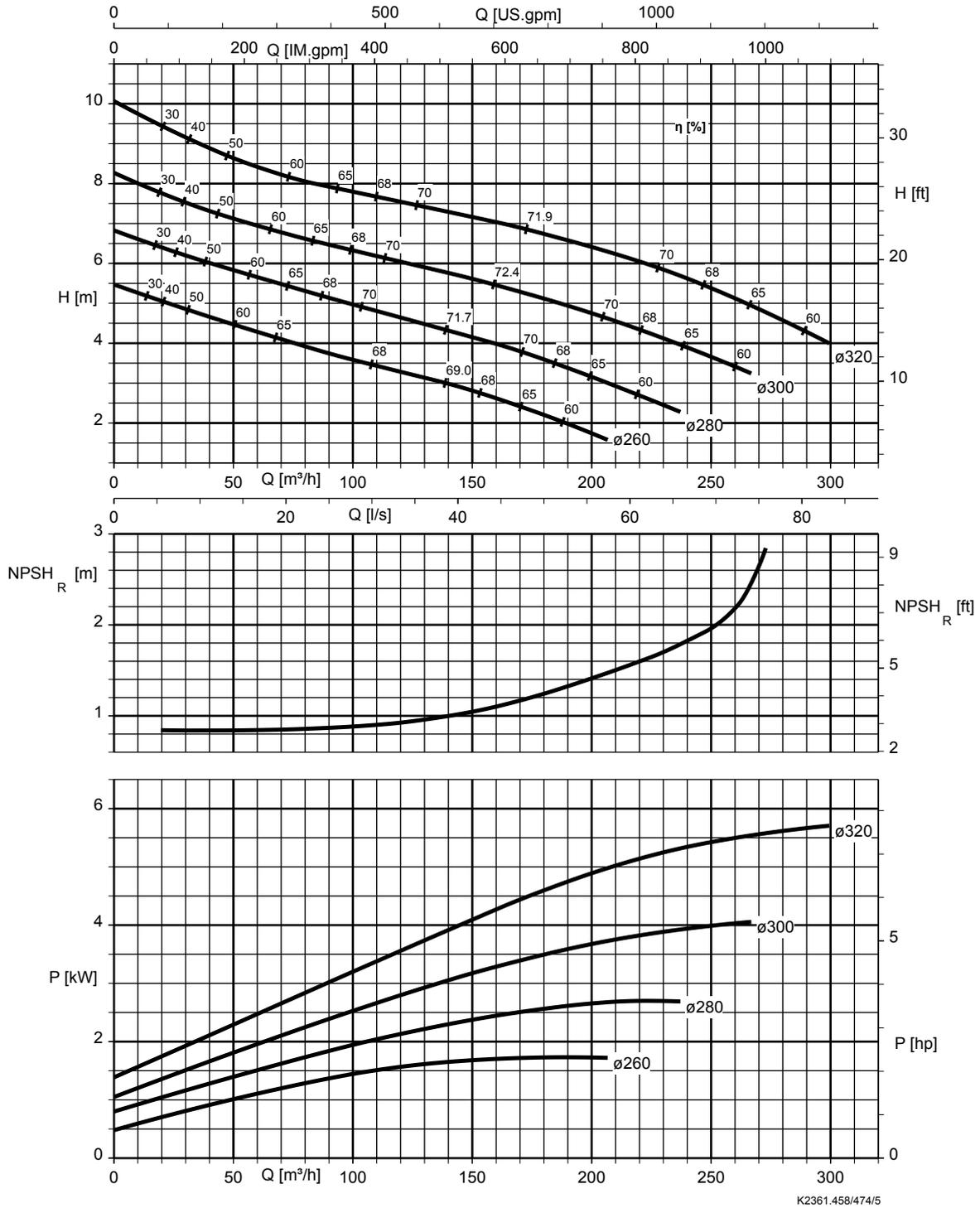


K33986/2

KWP K 150-125-503, n = 725 rpm

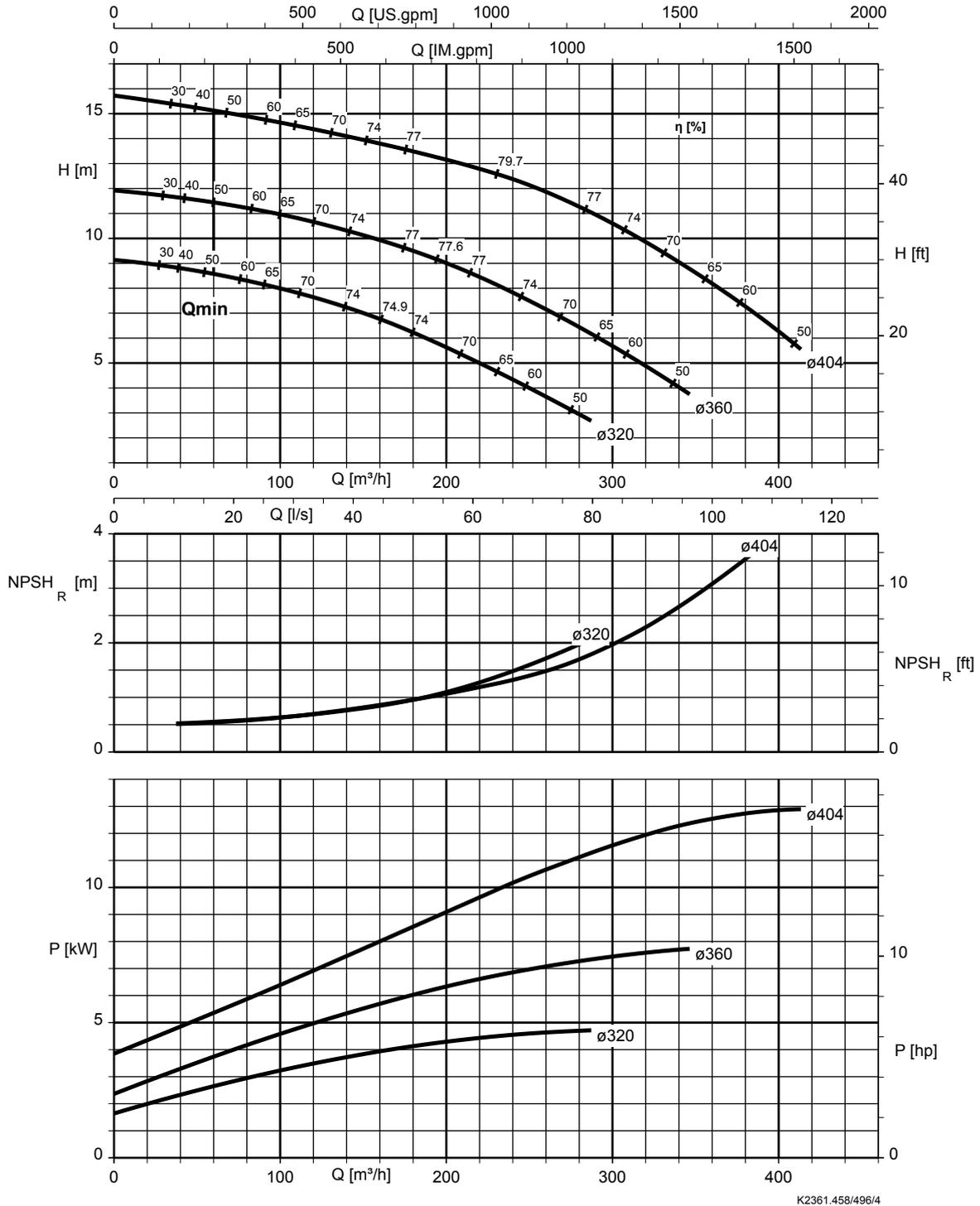


KWP K 150-150-315, n = 725 rpm



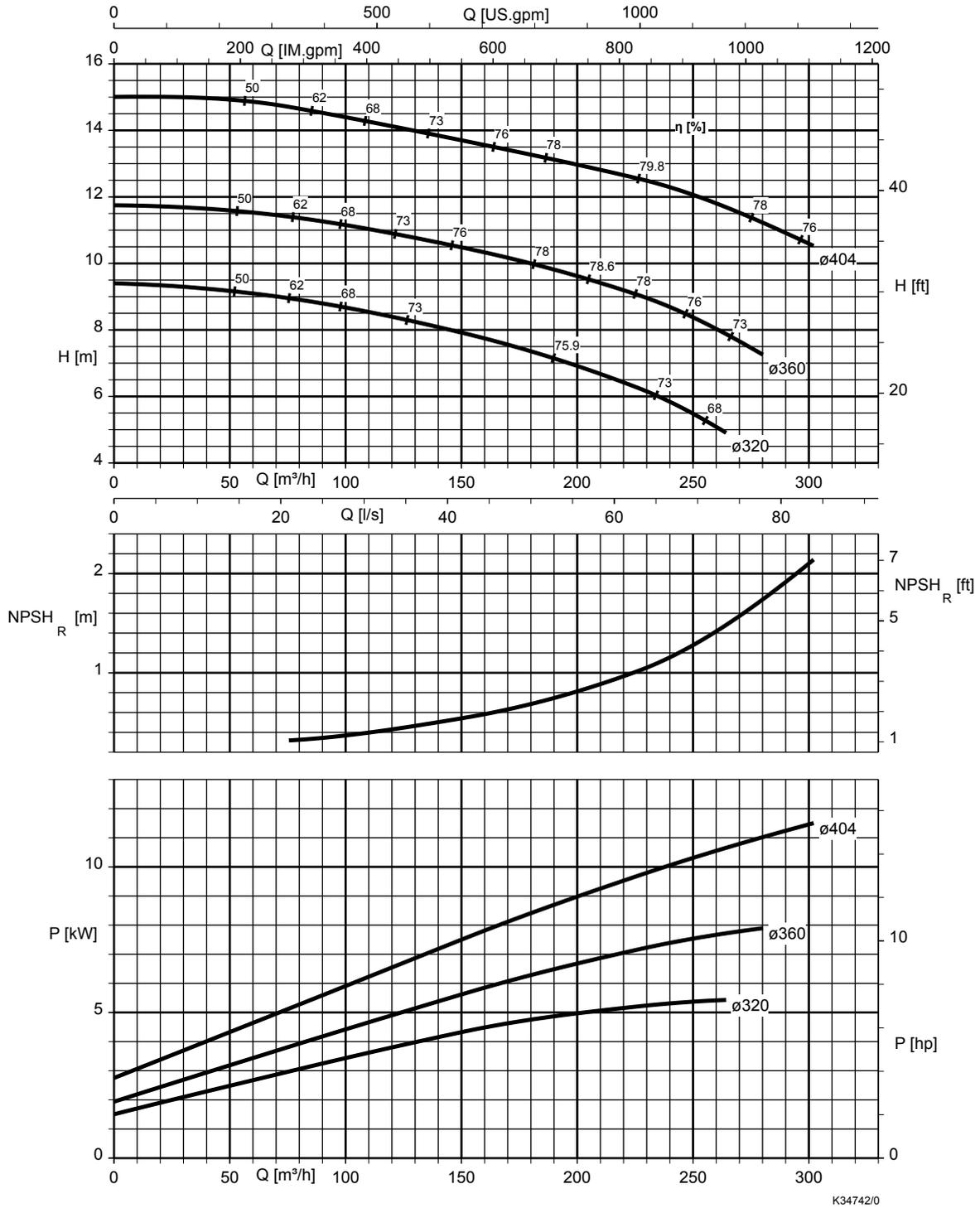
K2361.458/474/5

KWP K 150-150-400, n = 725 rpm



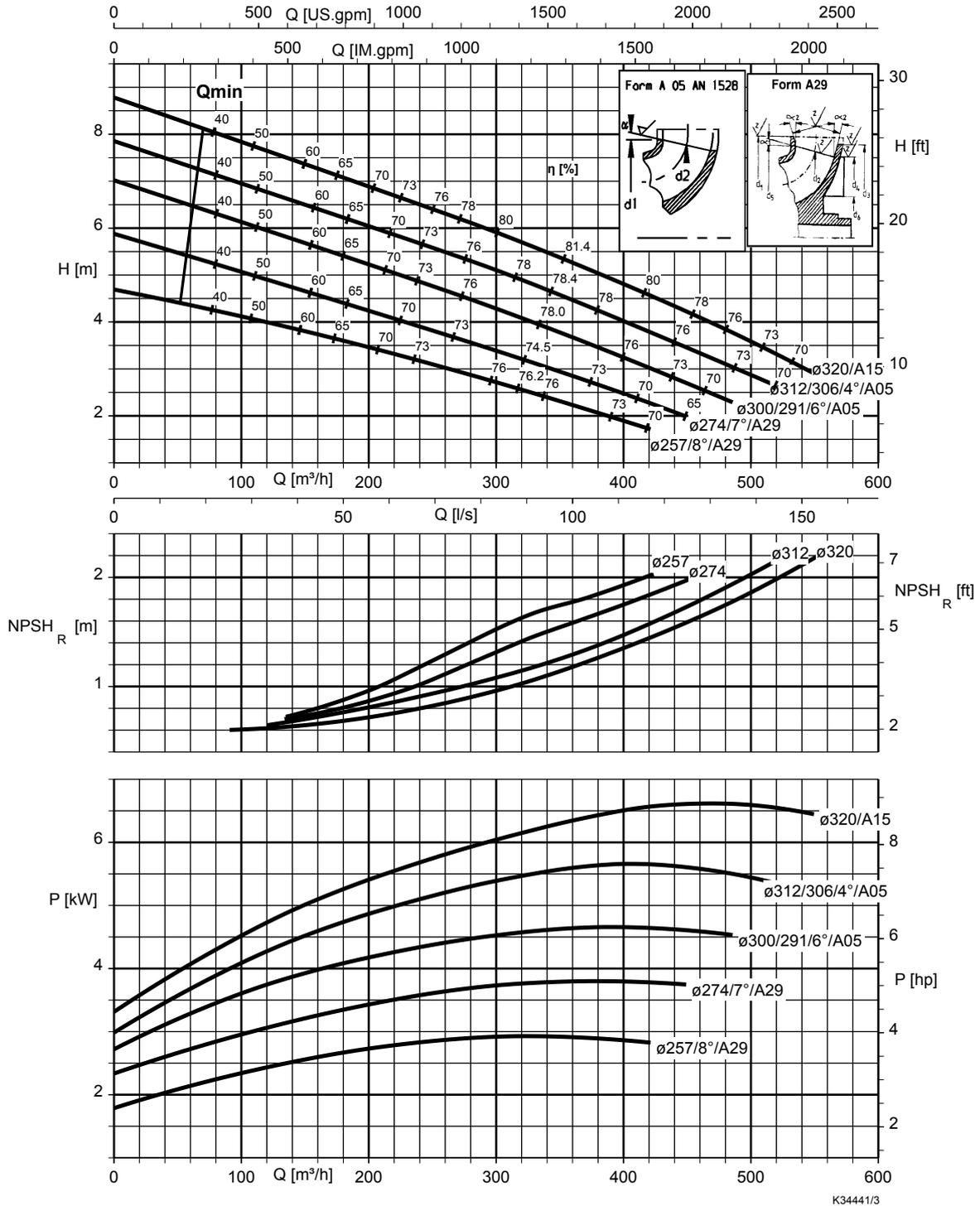
K2361.458/496/4

KWP K 150-150-403, n = 725 rpm

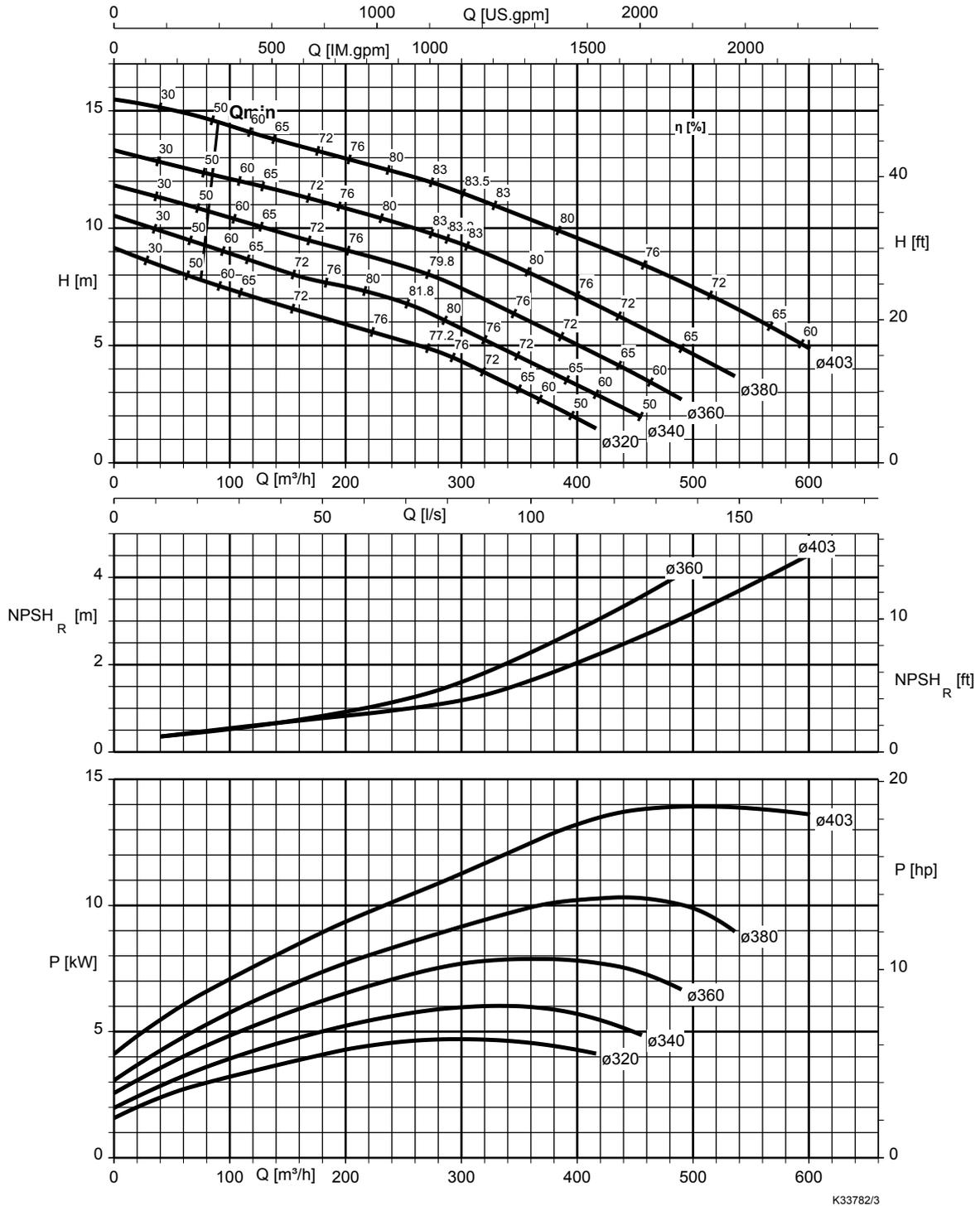


K34742/0

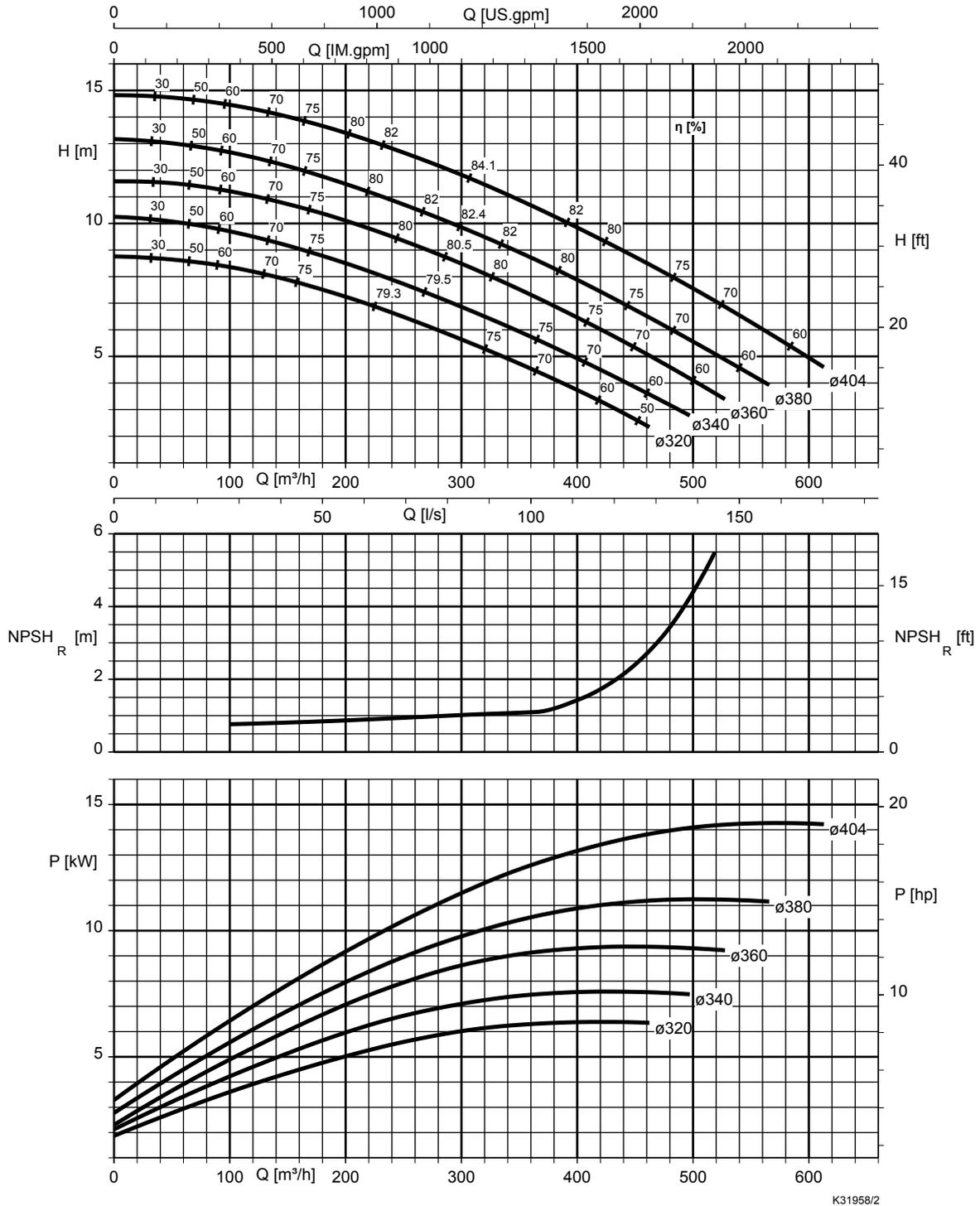
KWP K 200-200-320, n = 725 rpm



KWP K 200-200-400, n = 725 rpm

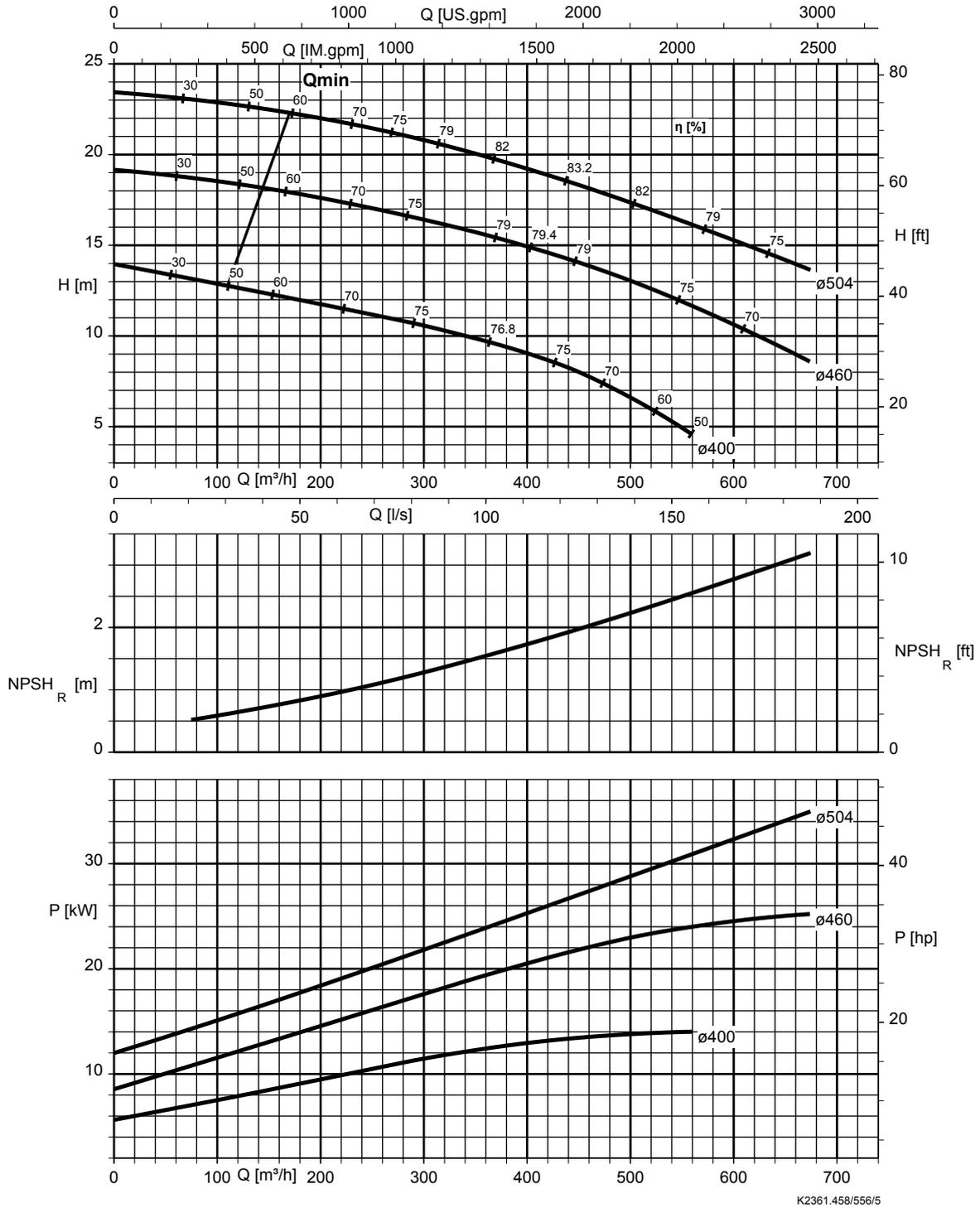


KWP K 200-200-403, n = 725 rpm

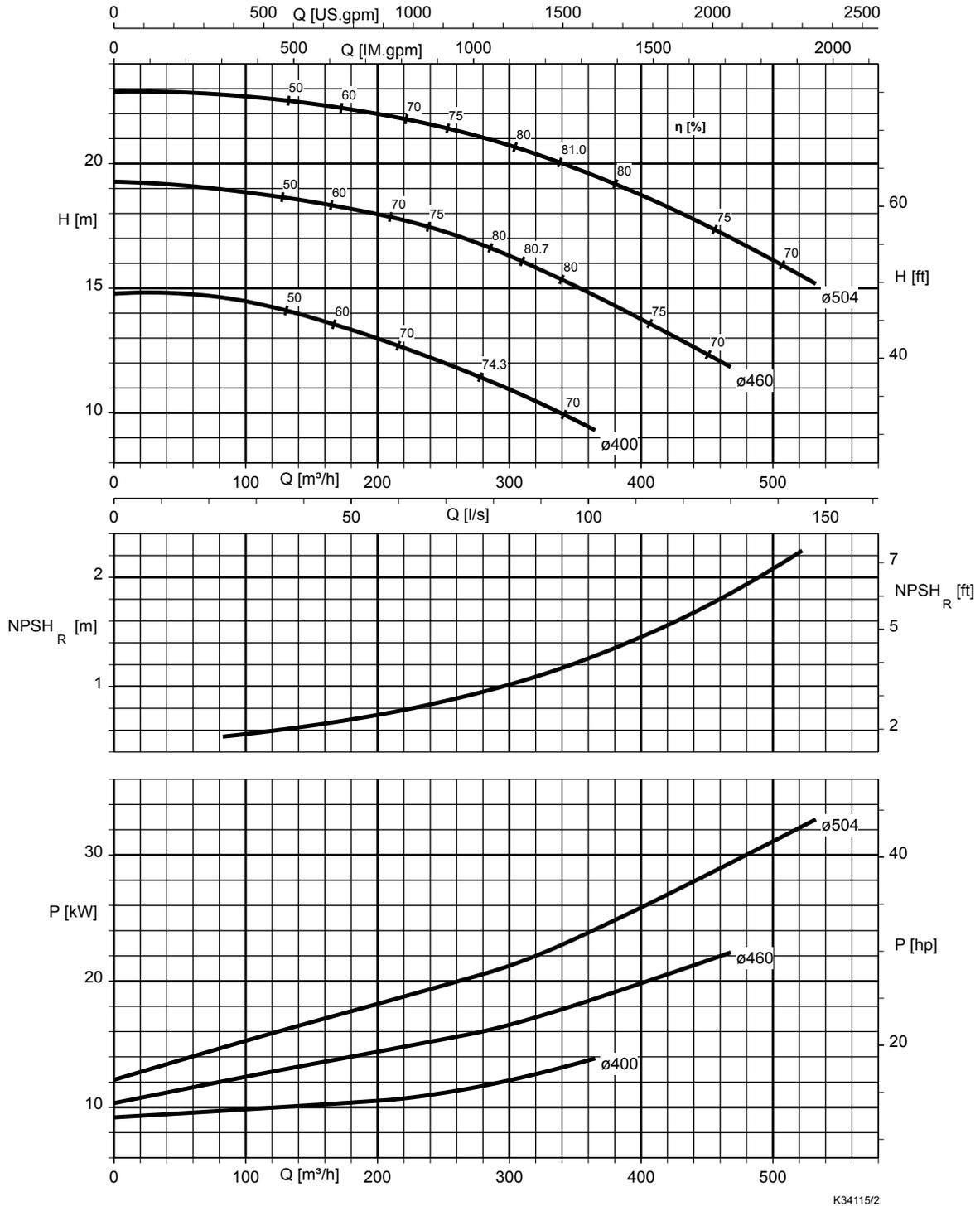


K31958/2

KWP K 200-200-501, n = 725 rpm

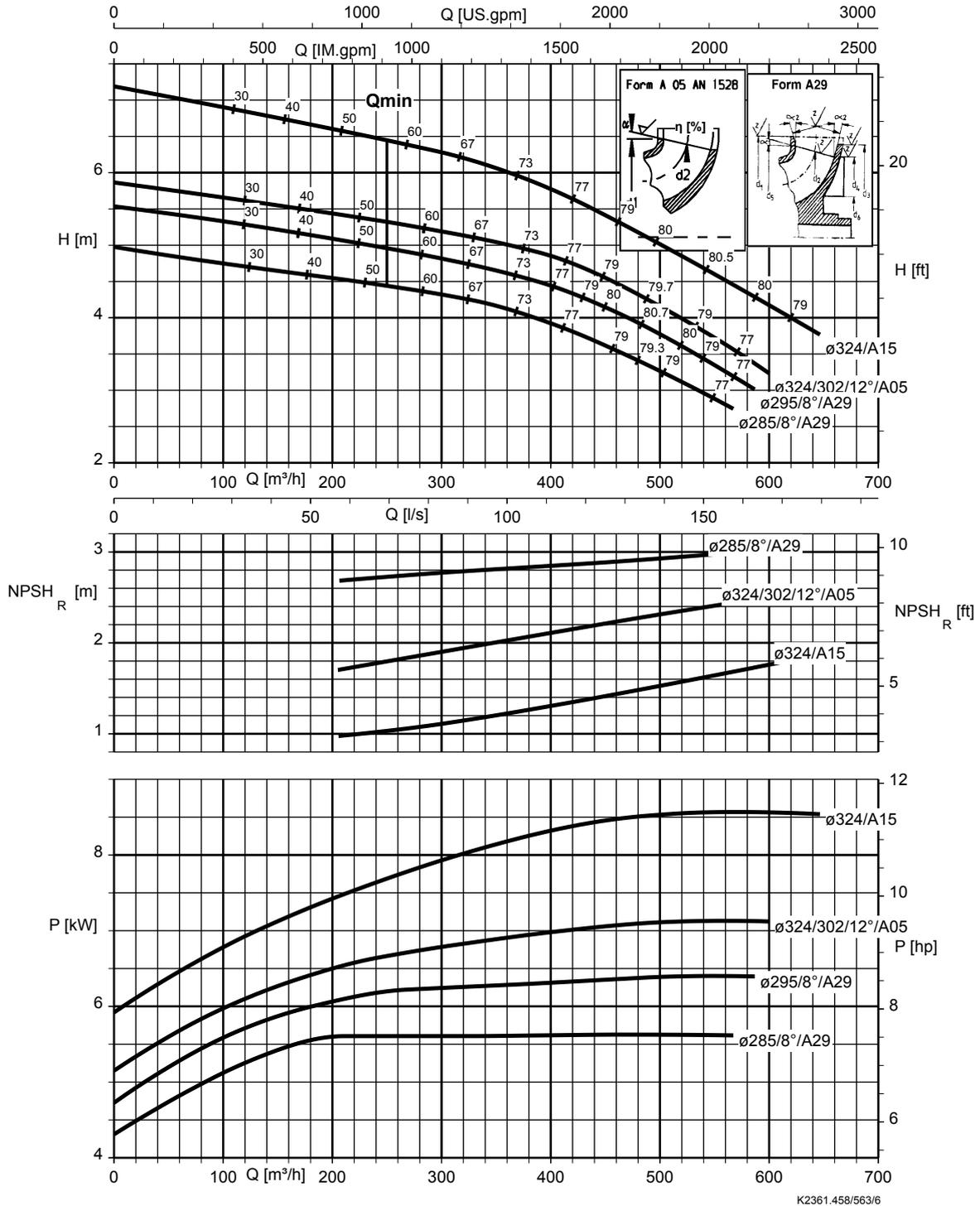


KWP K 200-200-503, n = 725 rpm

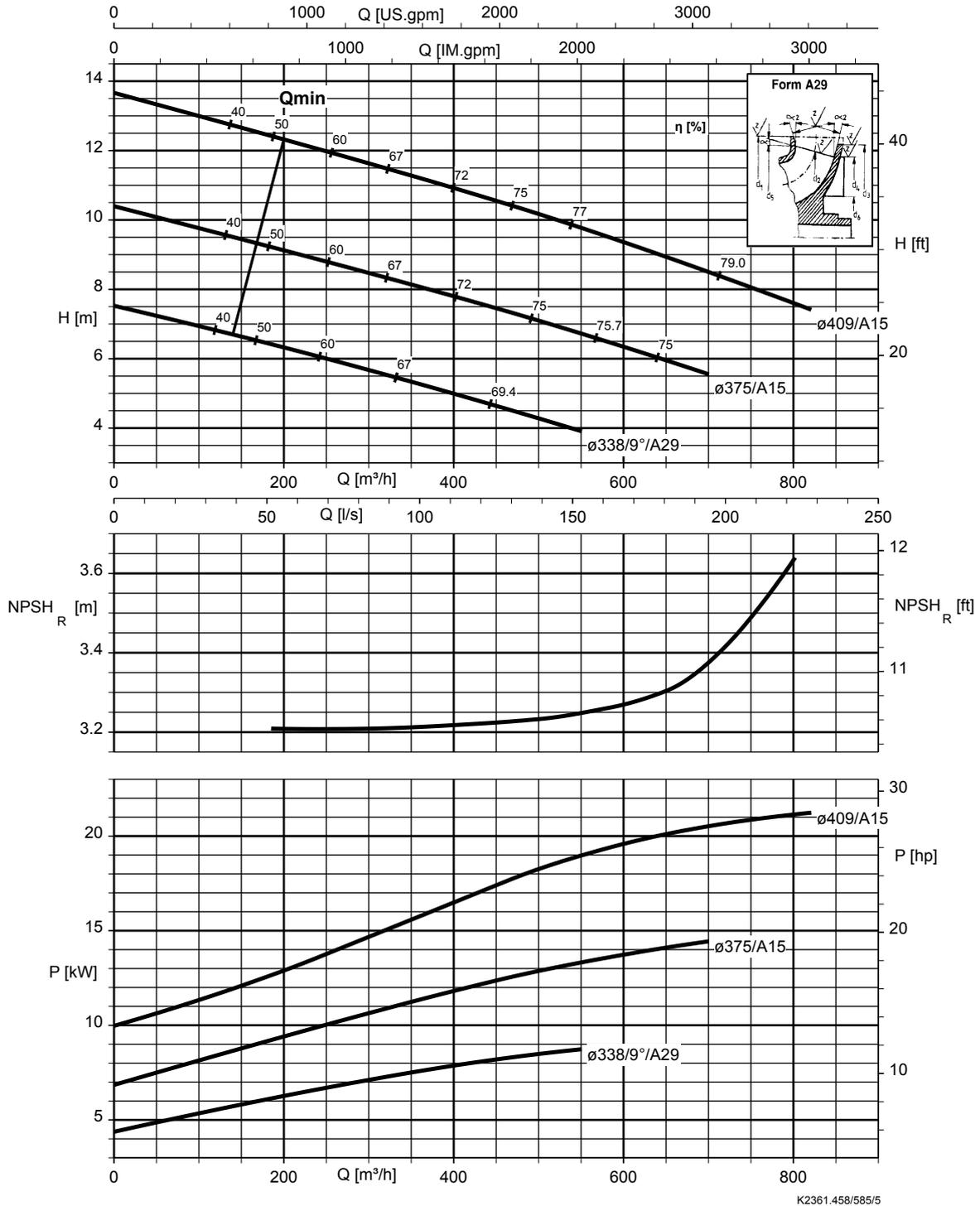


K34115/2

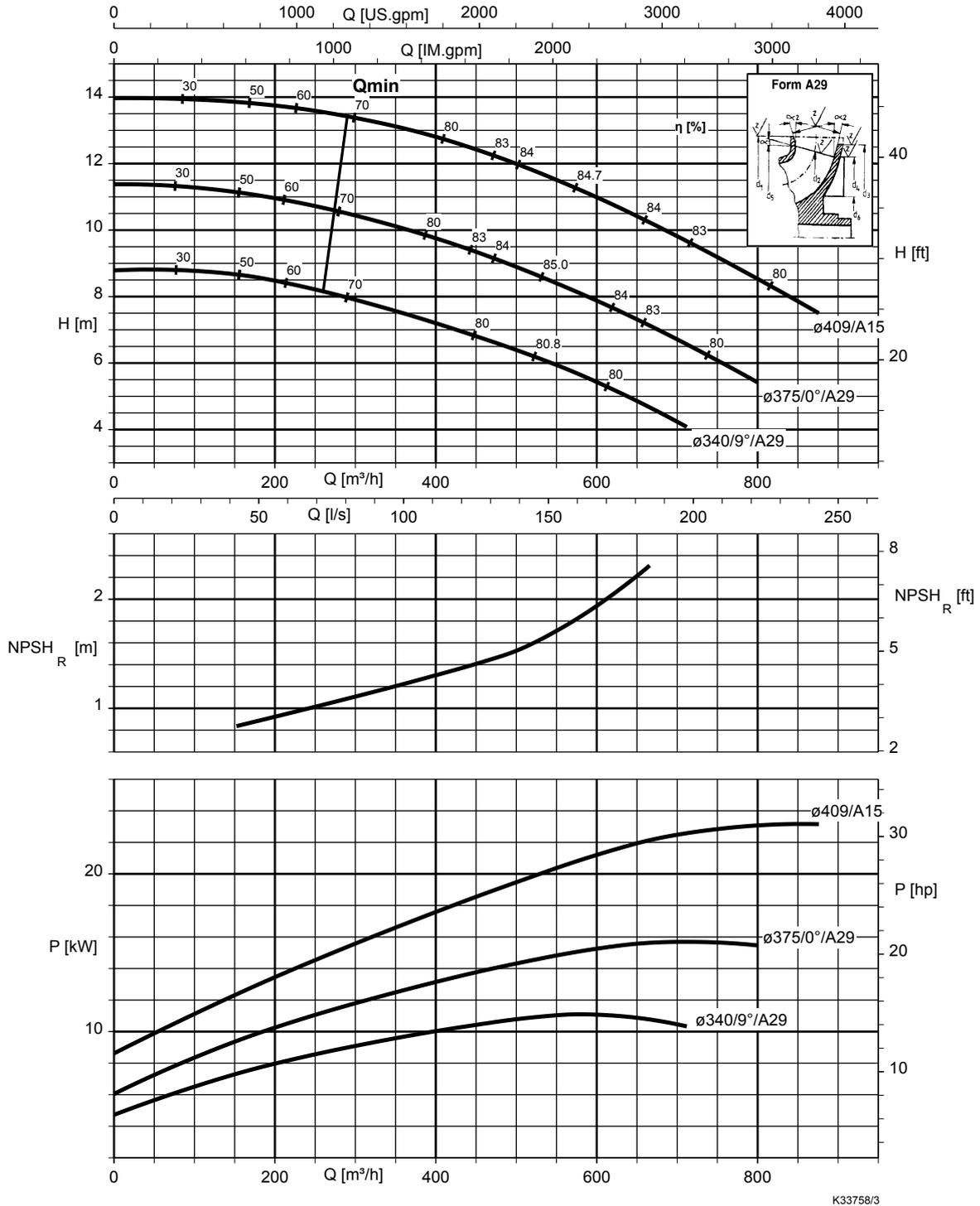
KWP K 250-250-315, n = 725 rpm



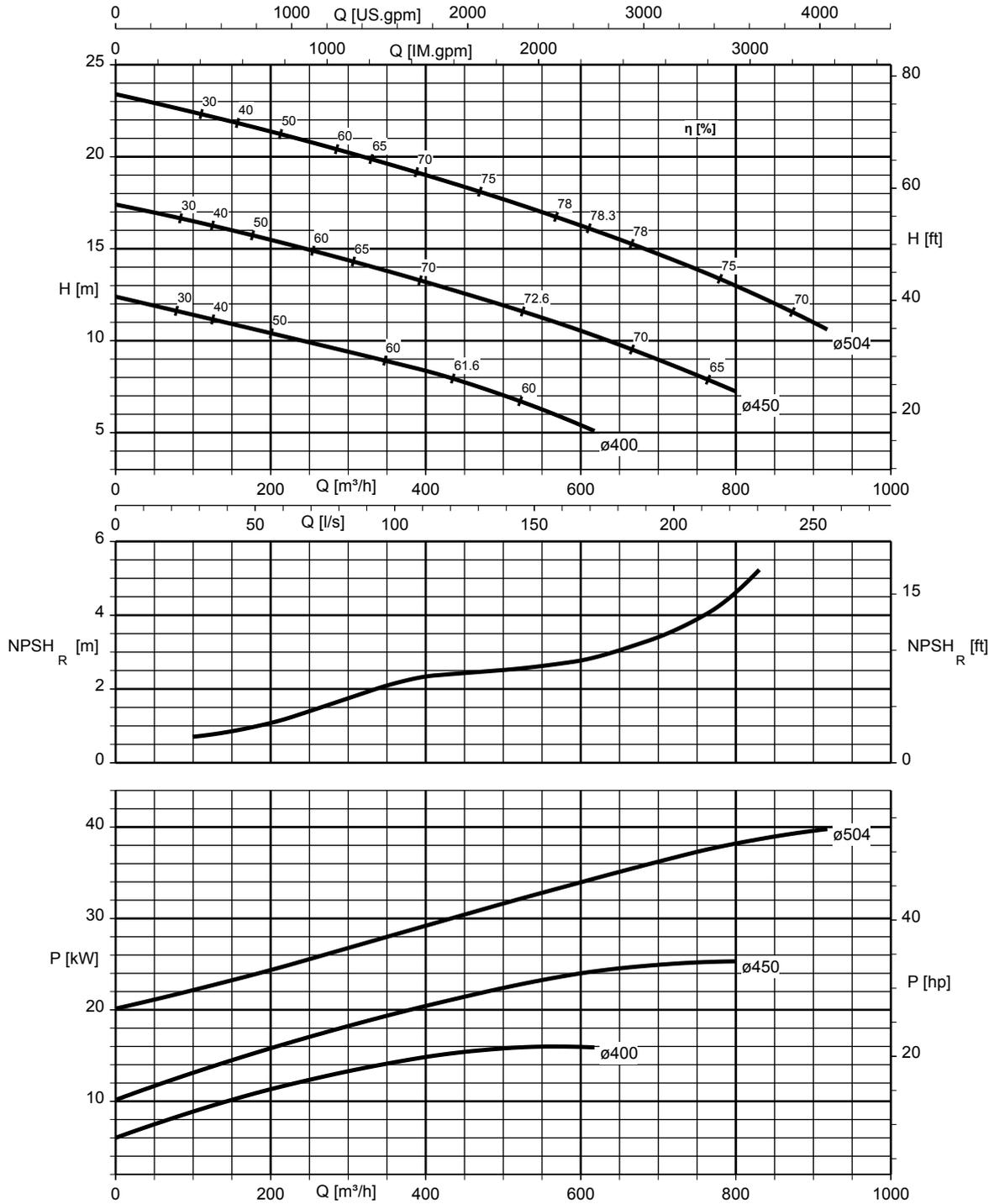
KWP K 250-250-400, n = 725 rpm



KWP K 250-250-403, n = 725 rpm

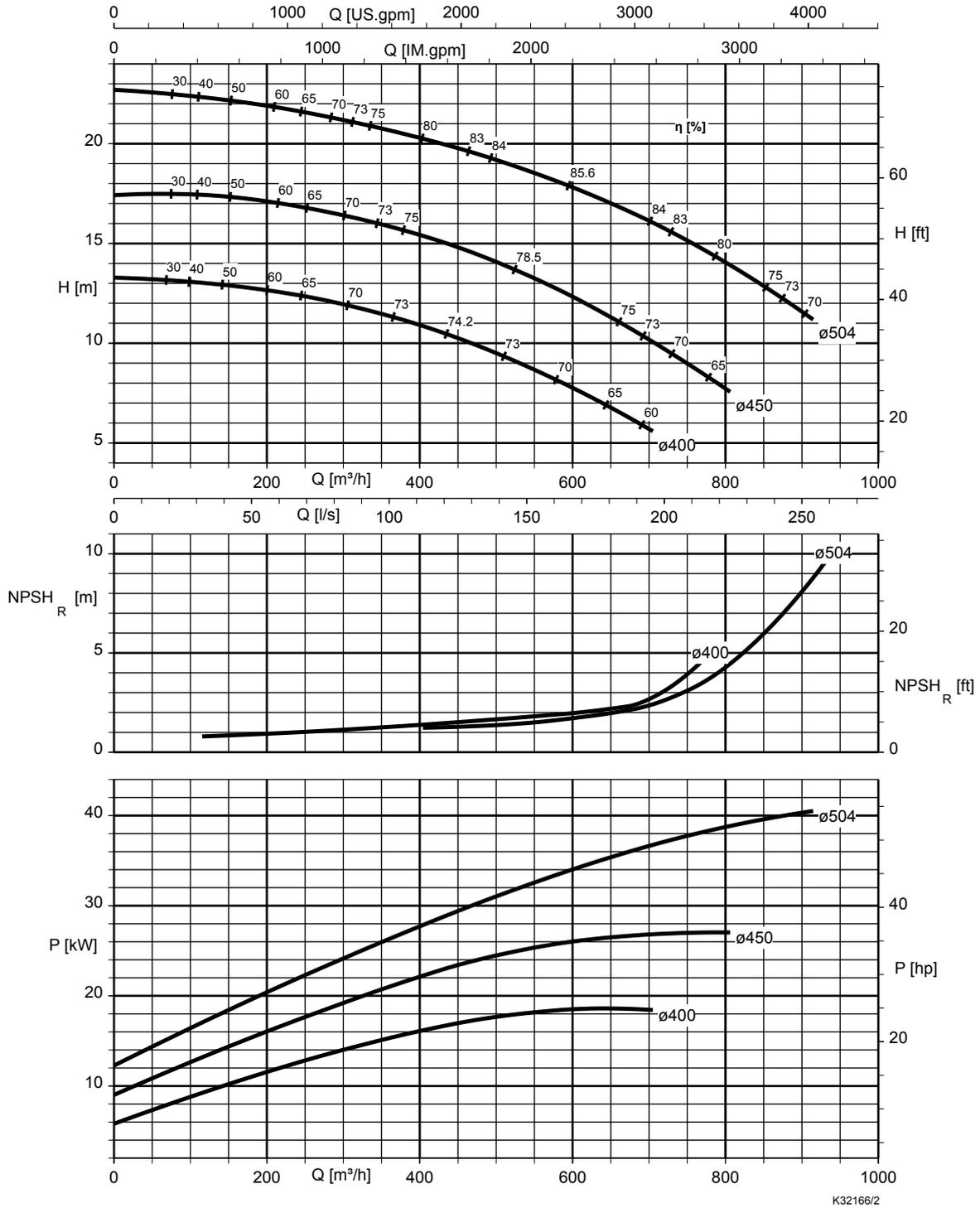


KWP K 250-250-500, n = 725 rpm

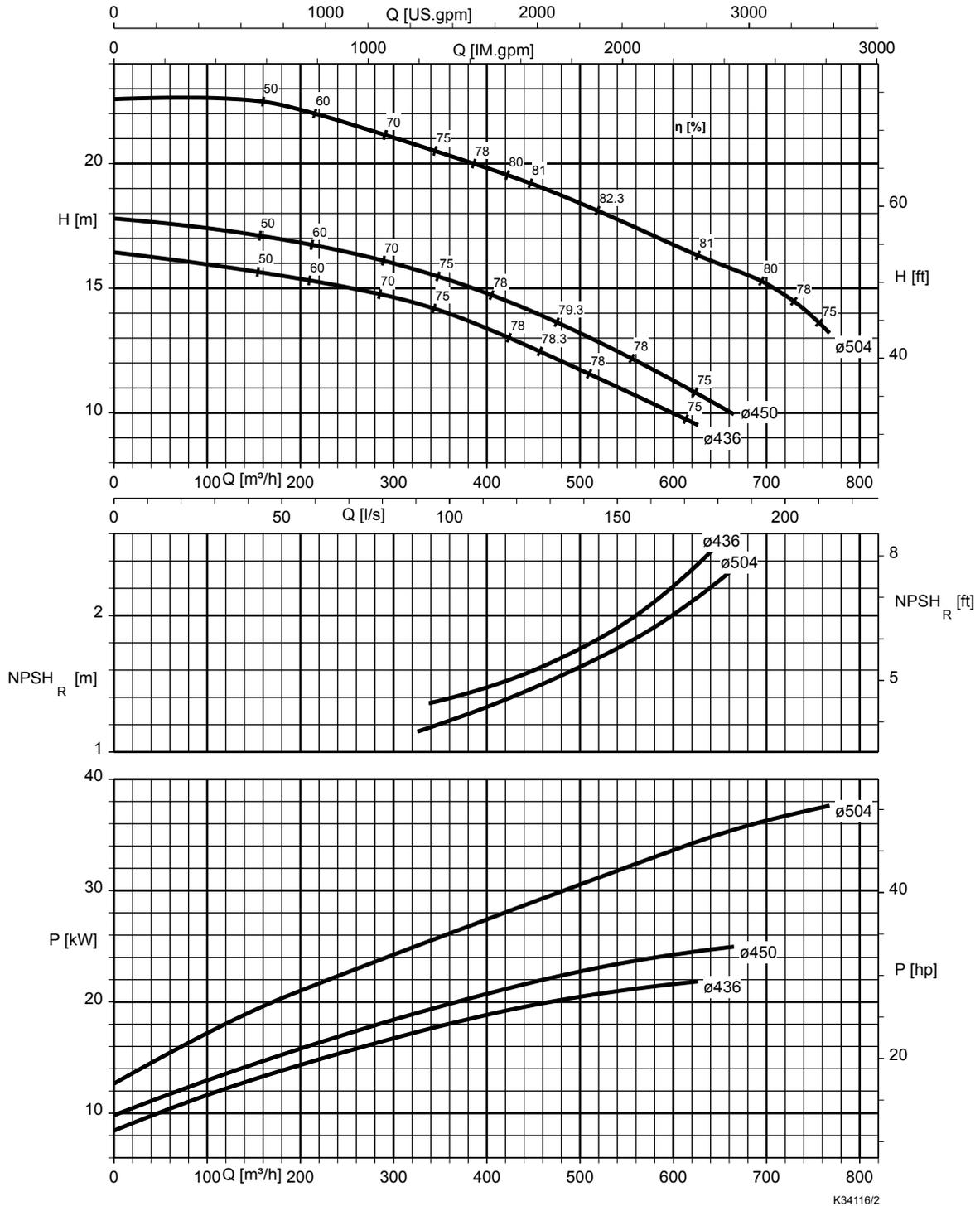


K2361.458/567/6

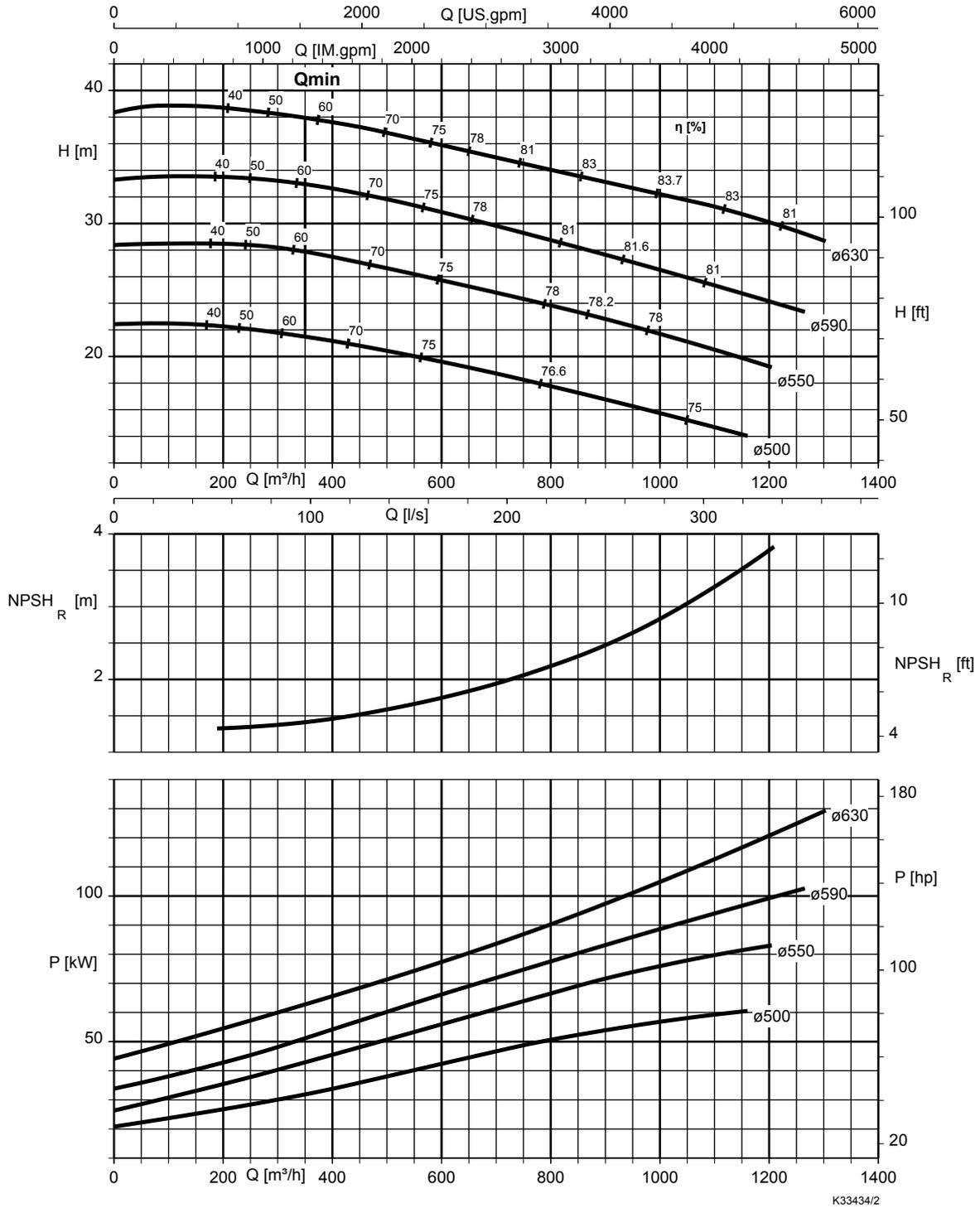
KWP K 250-250-503, n = 725 rpm



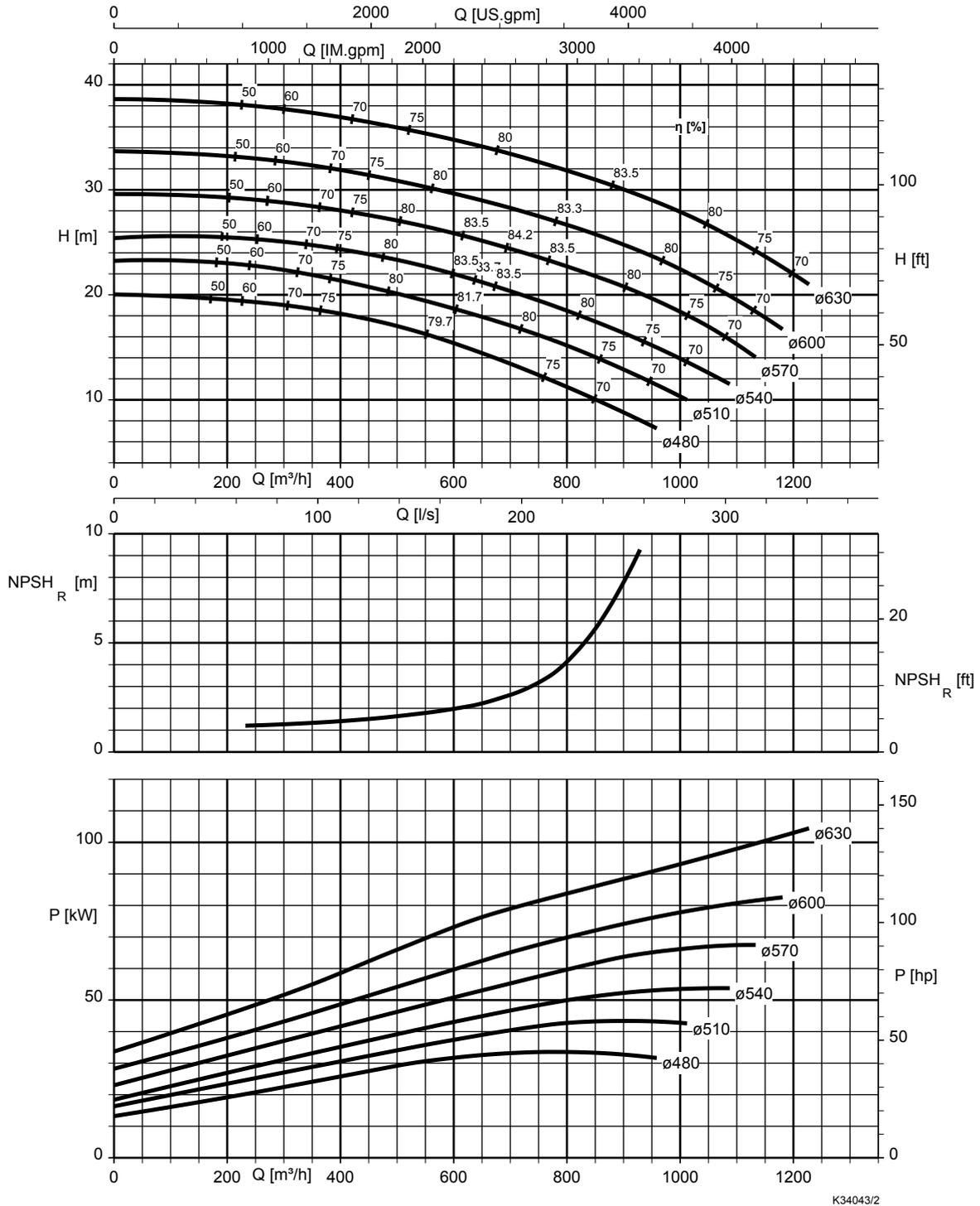
KWP K 250-250-505, n = 725 rpm



KWP K 250-250-630, n = 725 rpm

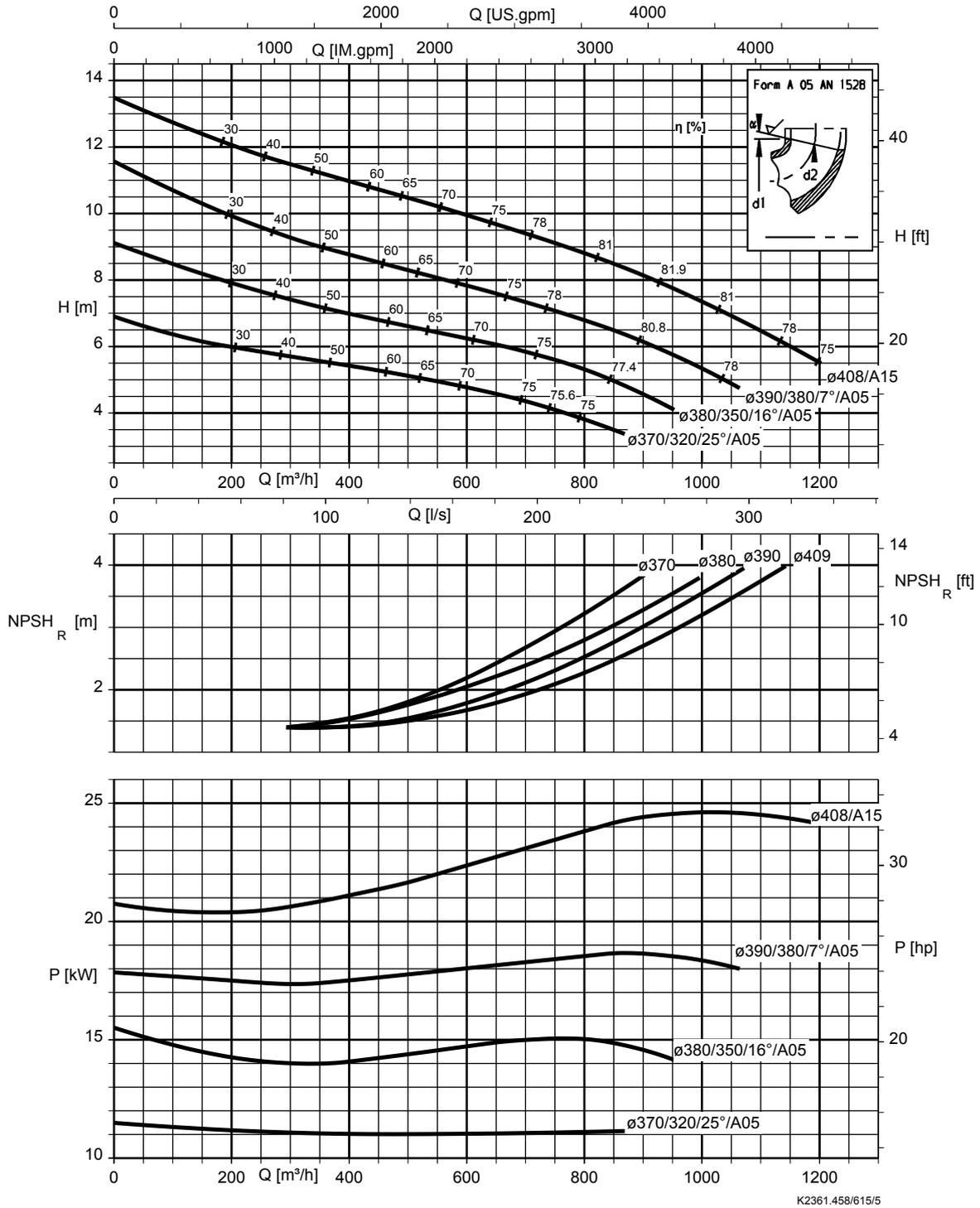


KWP K 250-250-634, n = 725 rpm

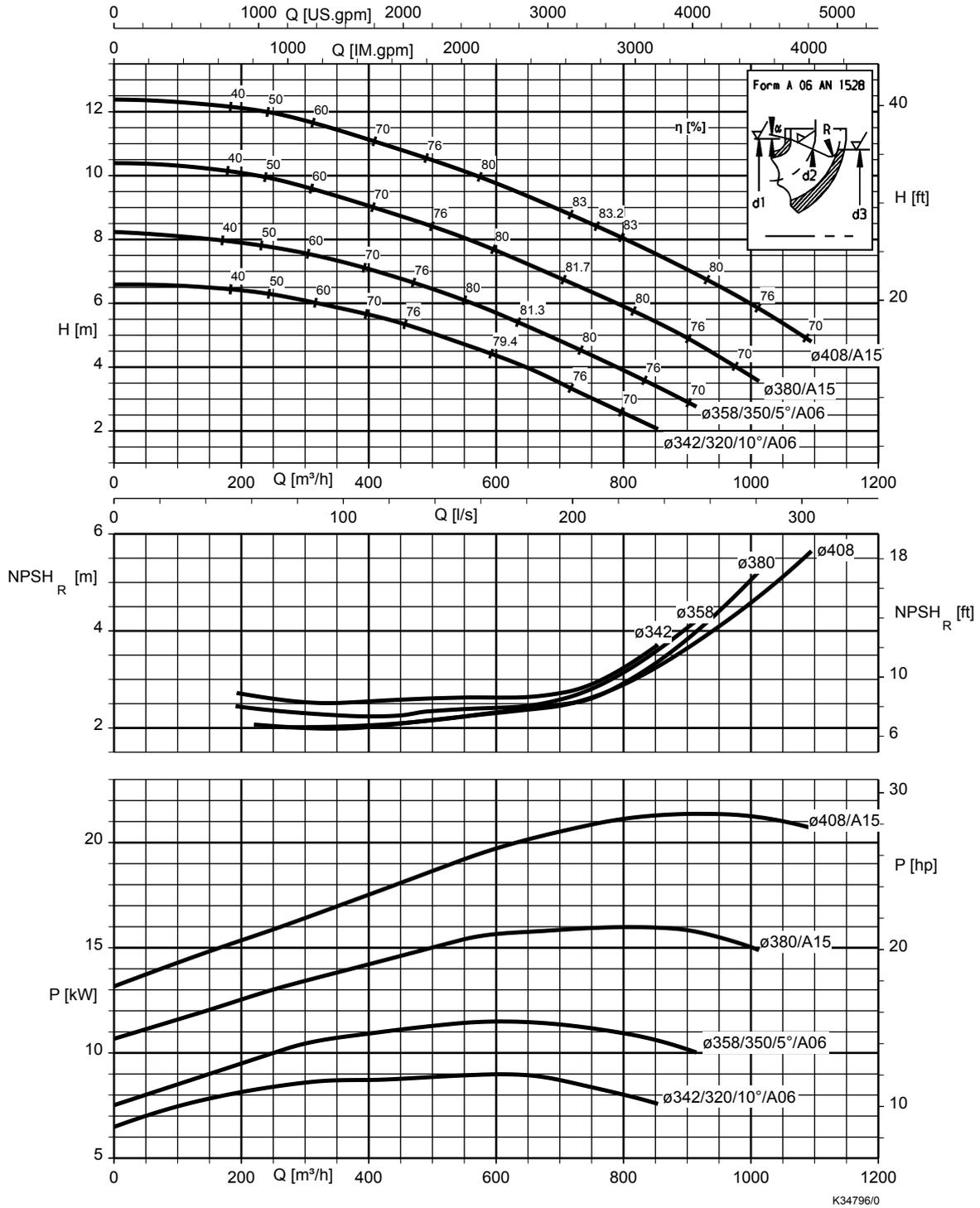


K34043/2

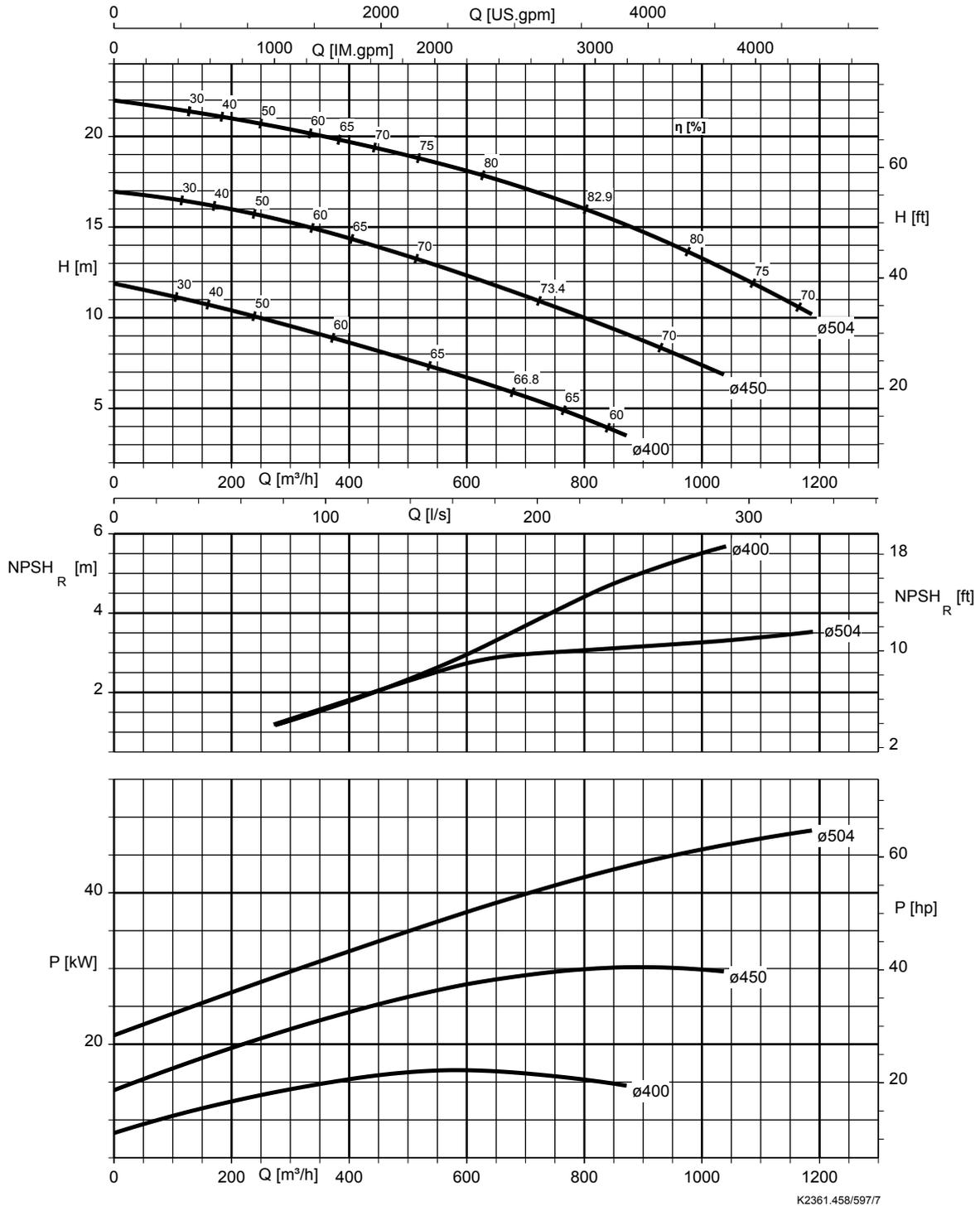
KWP K 300-300-400, n = 725 rpm



KWP K 300-300-401, n = 725 rpm

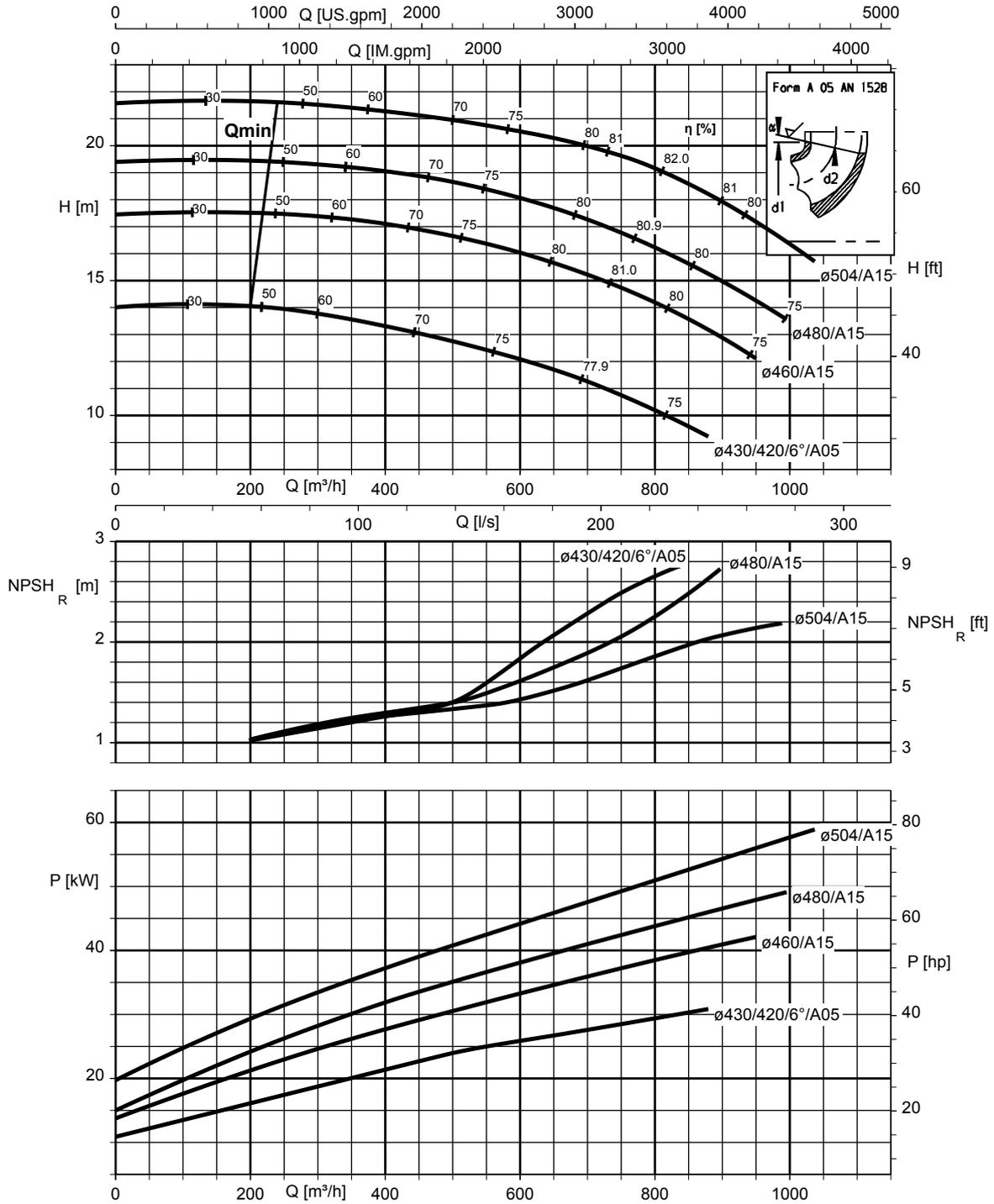


KWP K 300-300-500, n = 725 rpm



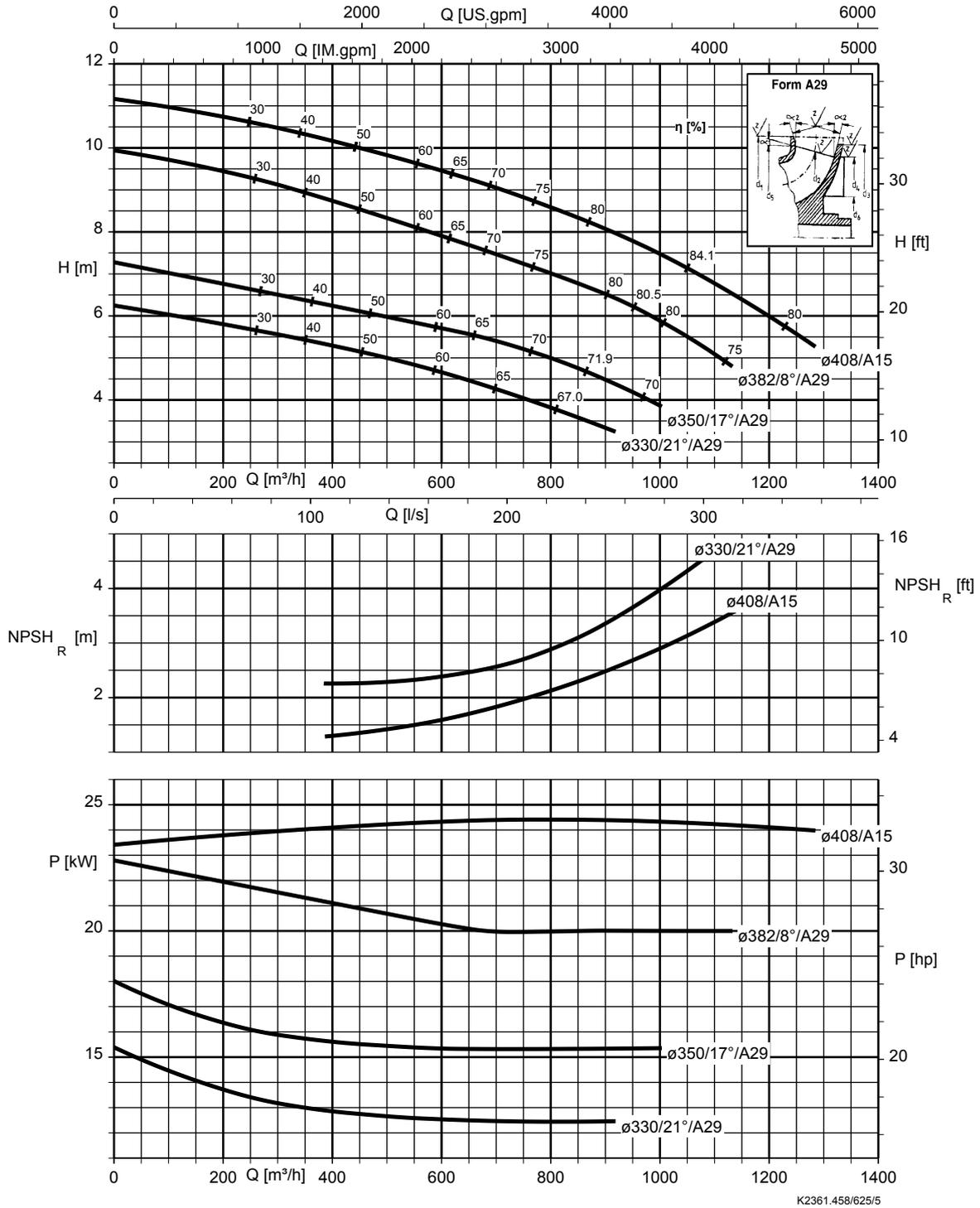
K2361.458/597/7

KWP K 300-300-503, n = 725 rpm



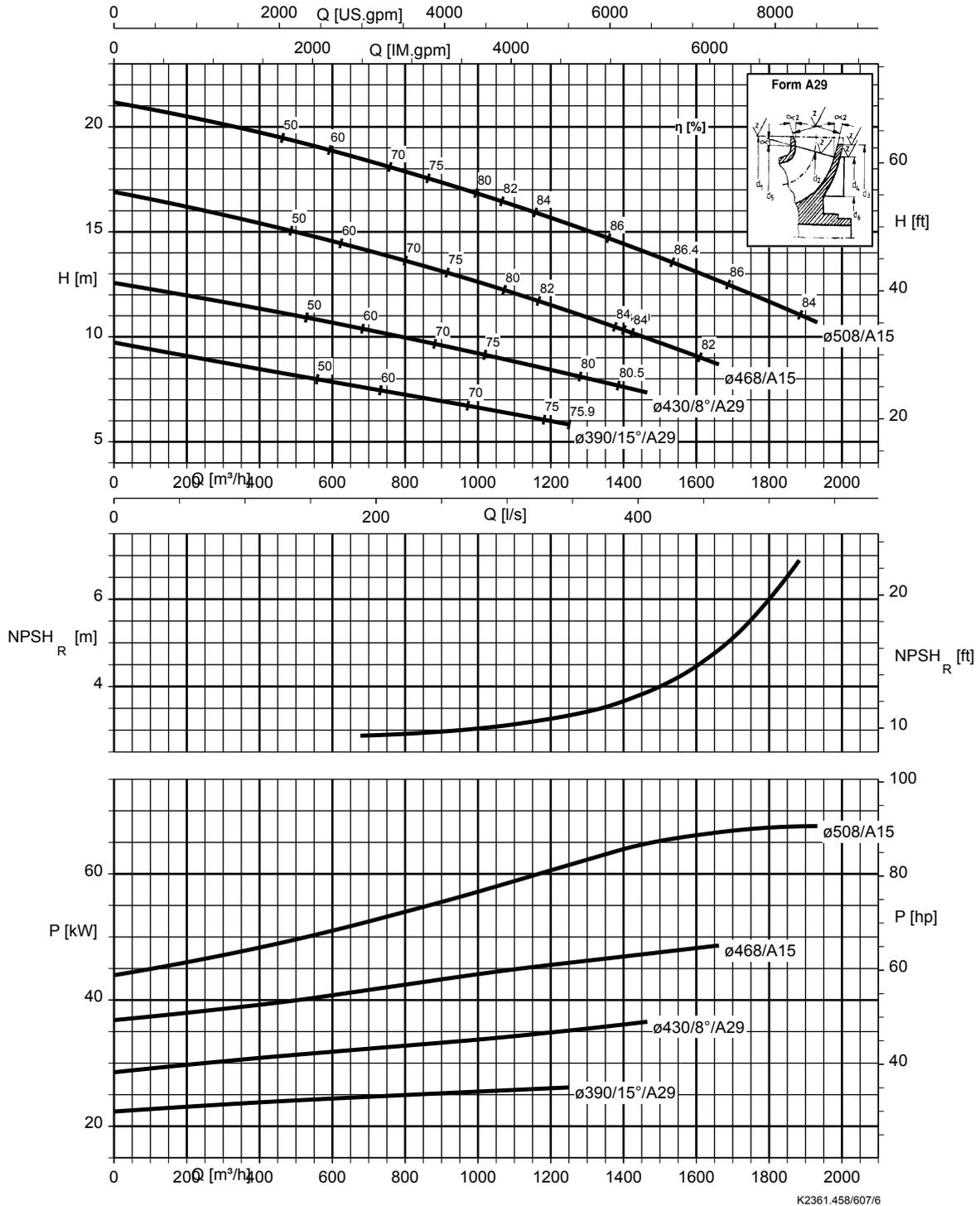
K33761/2

KWP K 350-350-400, n = 725 rpm

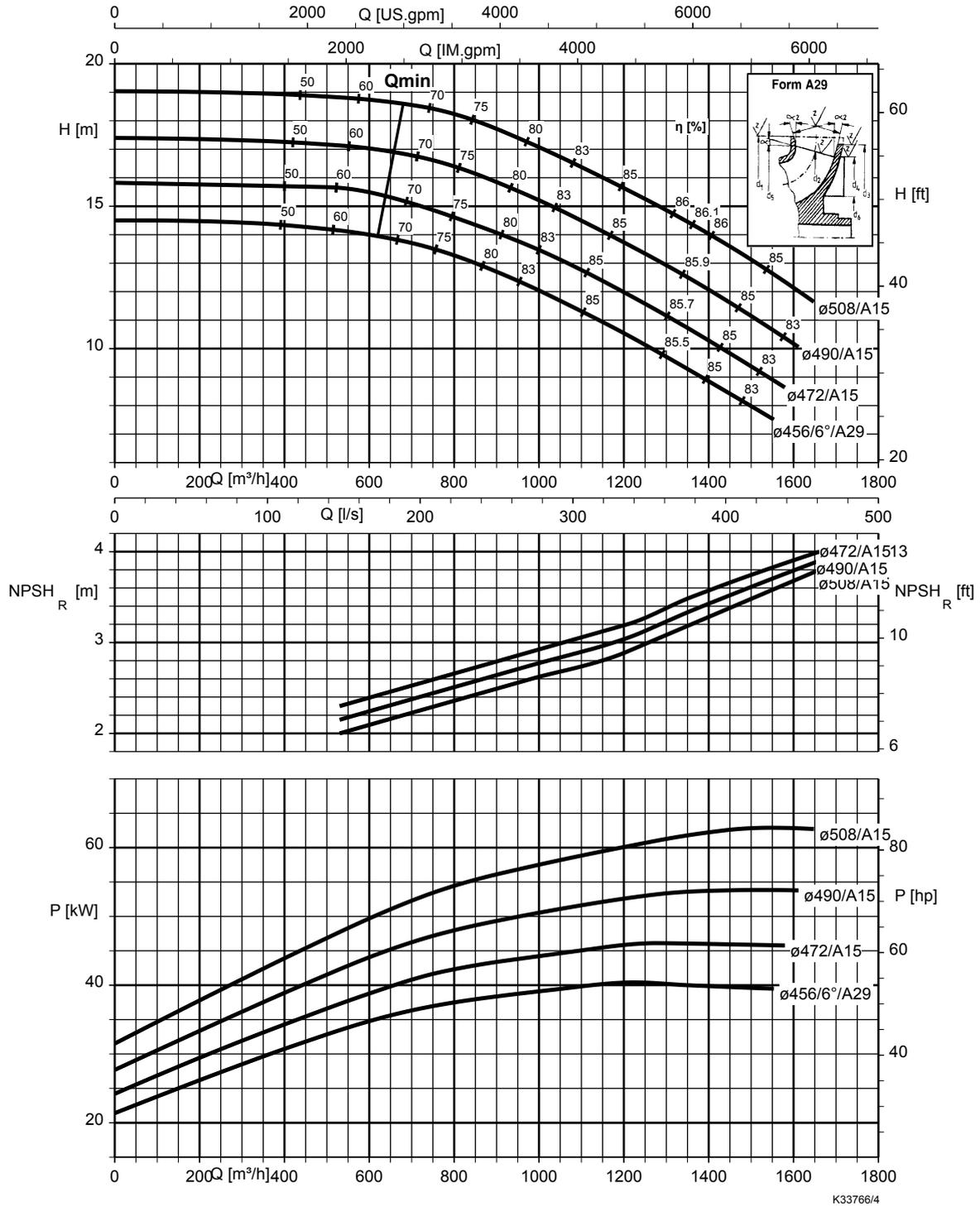


K2361.458/625/5

KWP K 350-350-500, n = 725 rpm

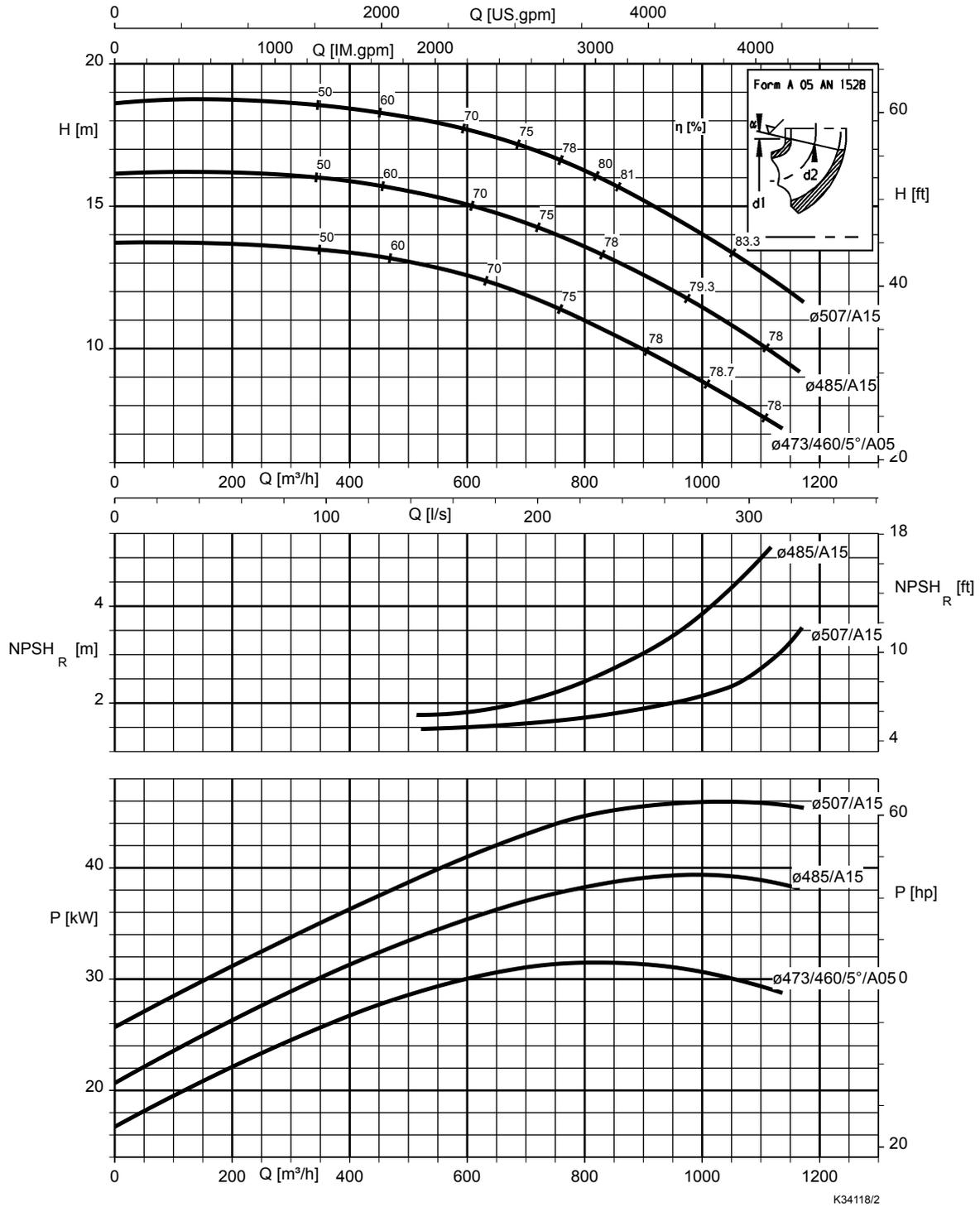


KWP K 350-350-503, n = 725 rpm

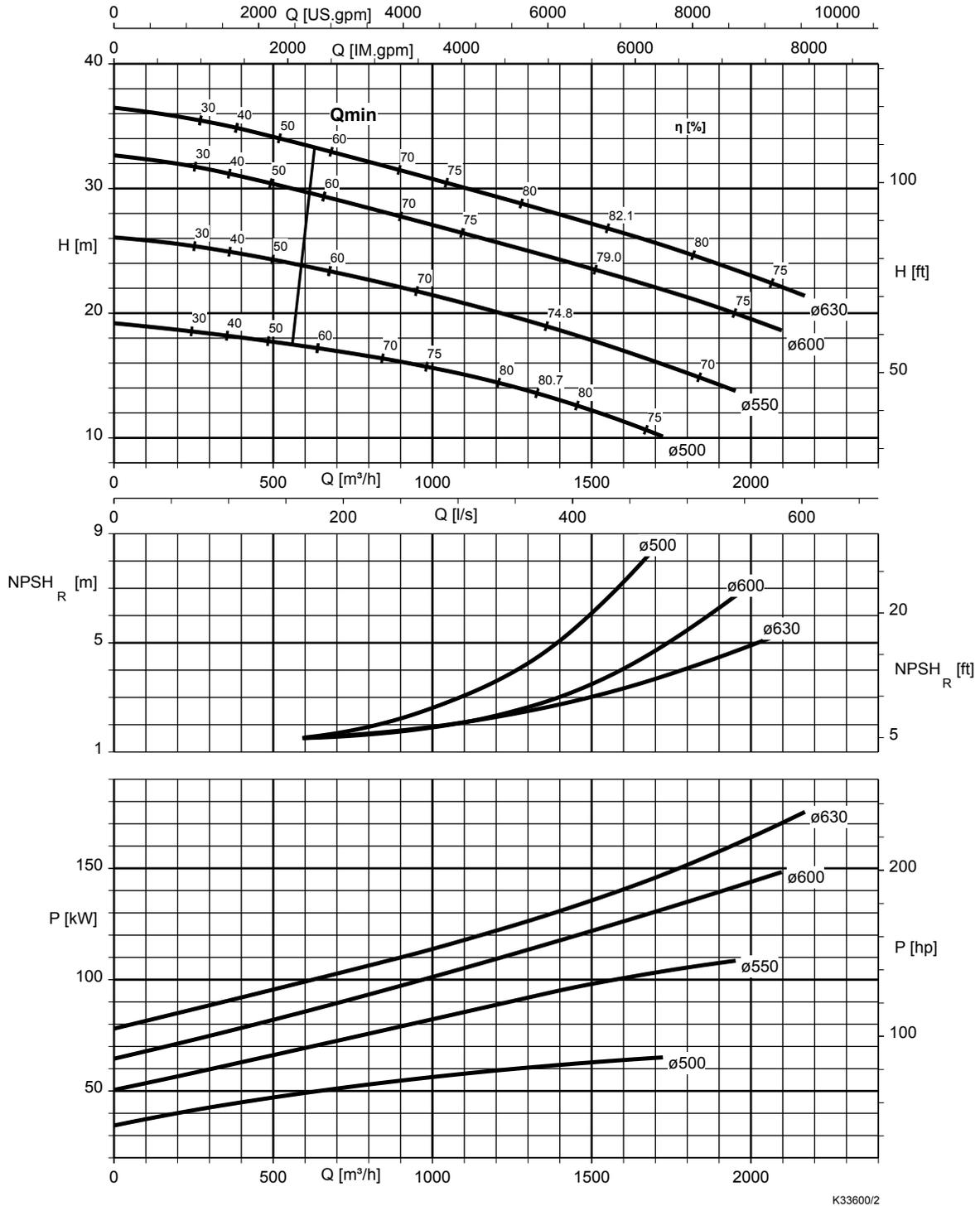


K33766/4

KWP K 350-350-504, n = 725 rpm

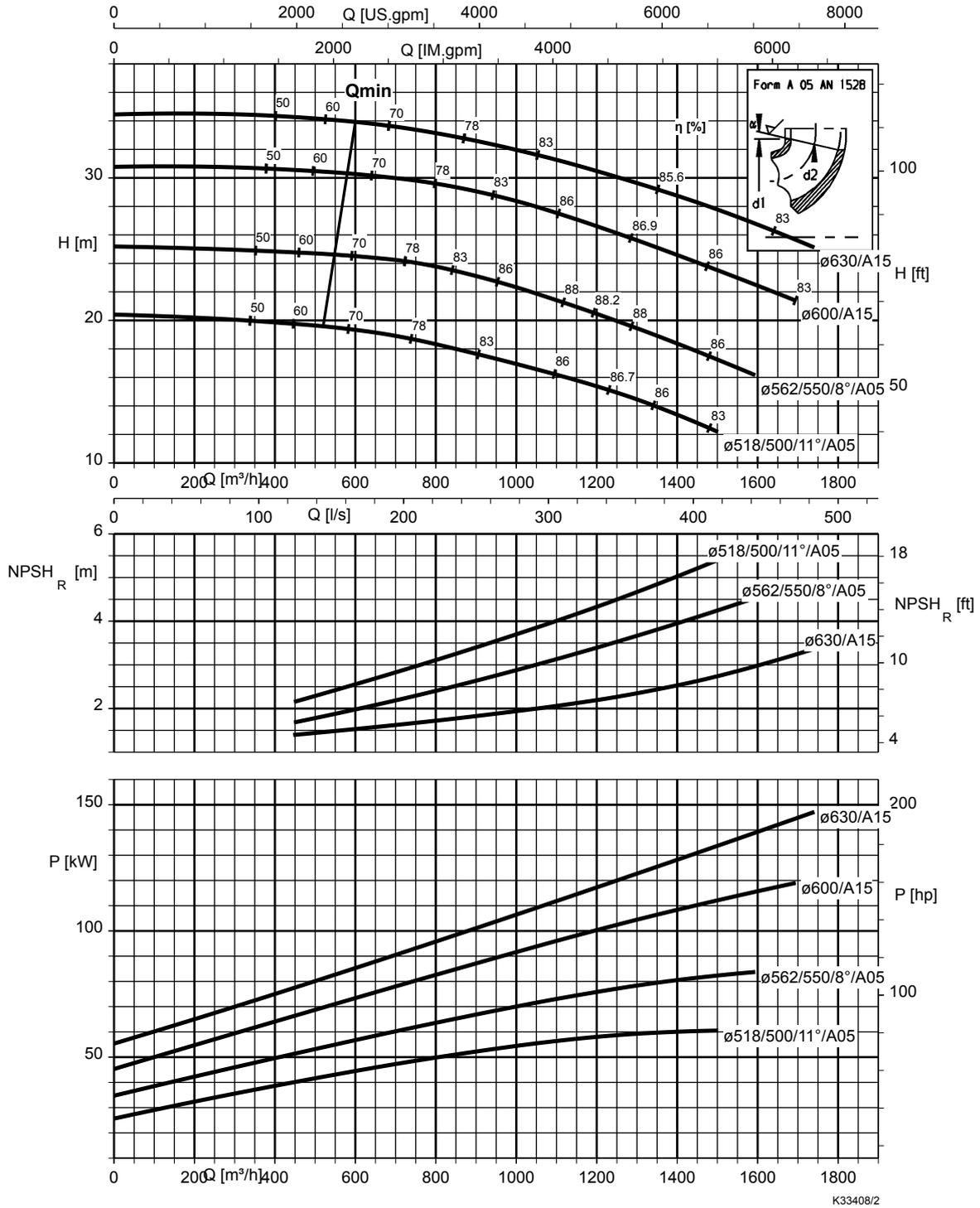


KWP K 350-350-630, n = 725 rpm

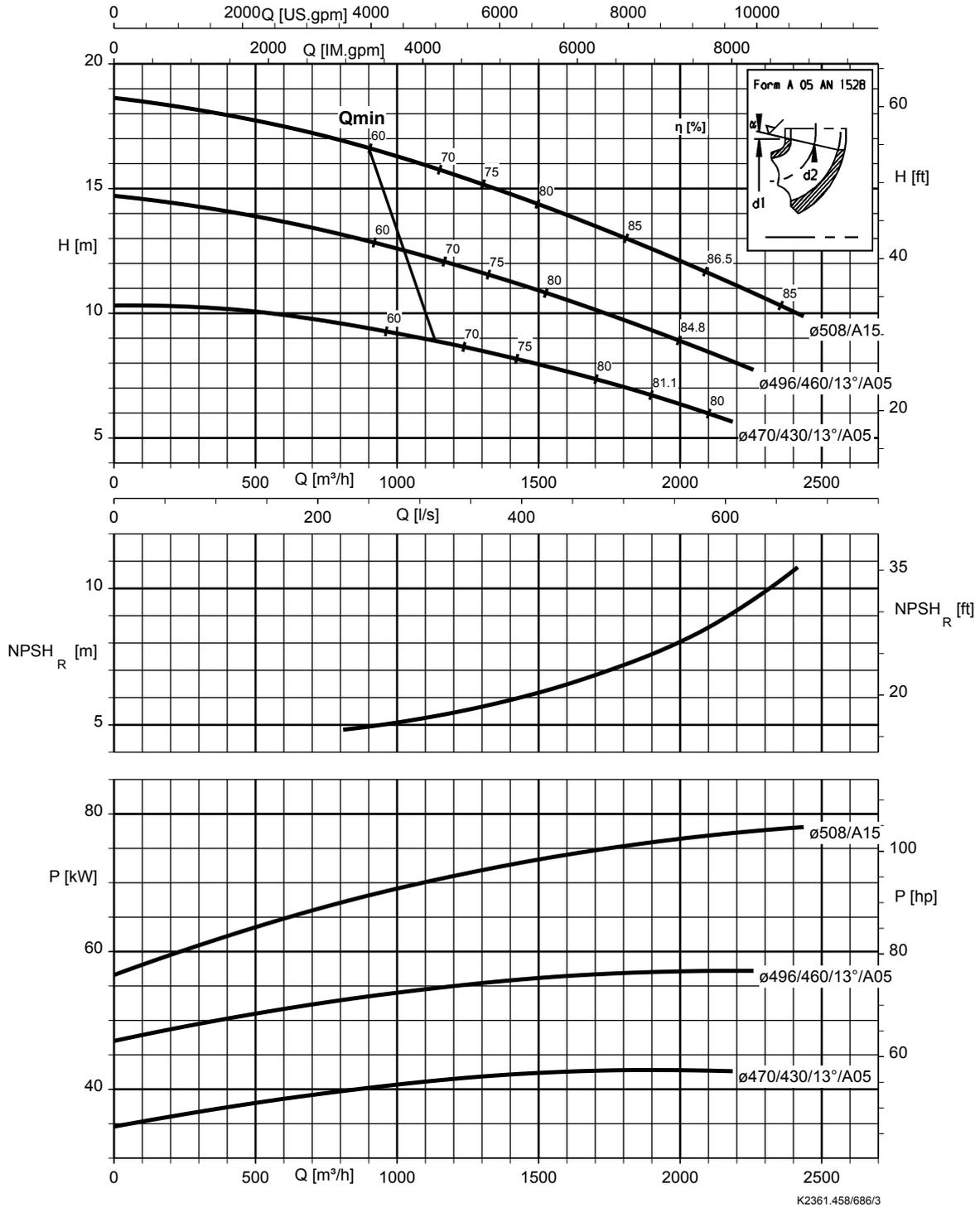


K33600/2

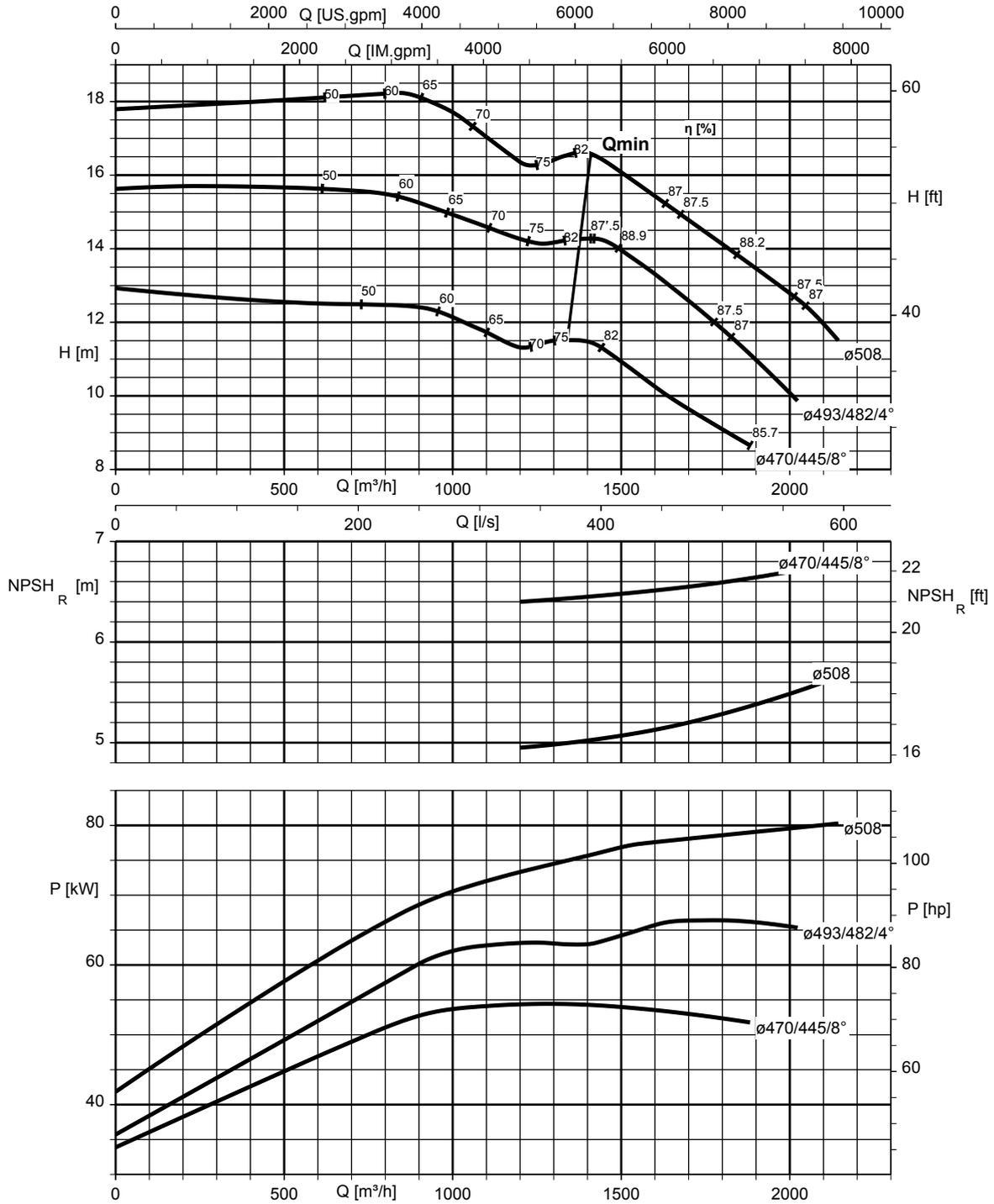
KWP K 350-350-633, n = 725 rpm



KWP K 400-400-500, n = 725 rpm

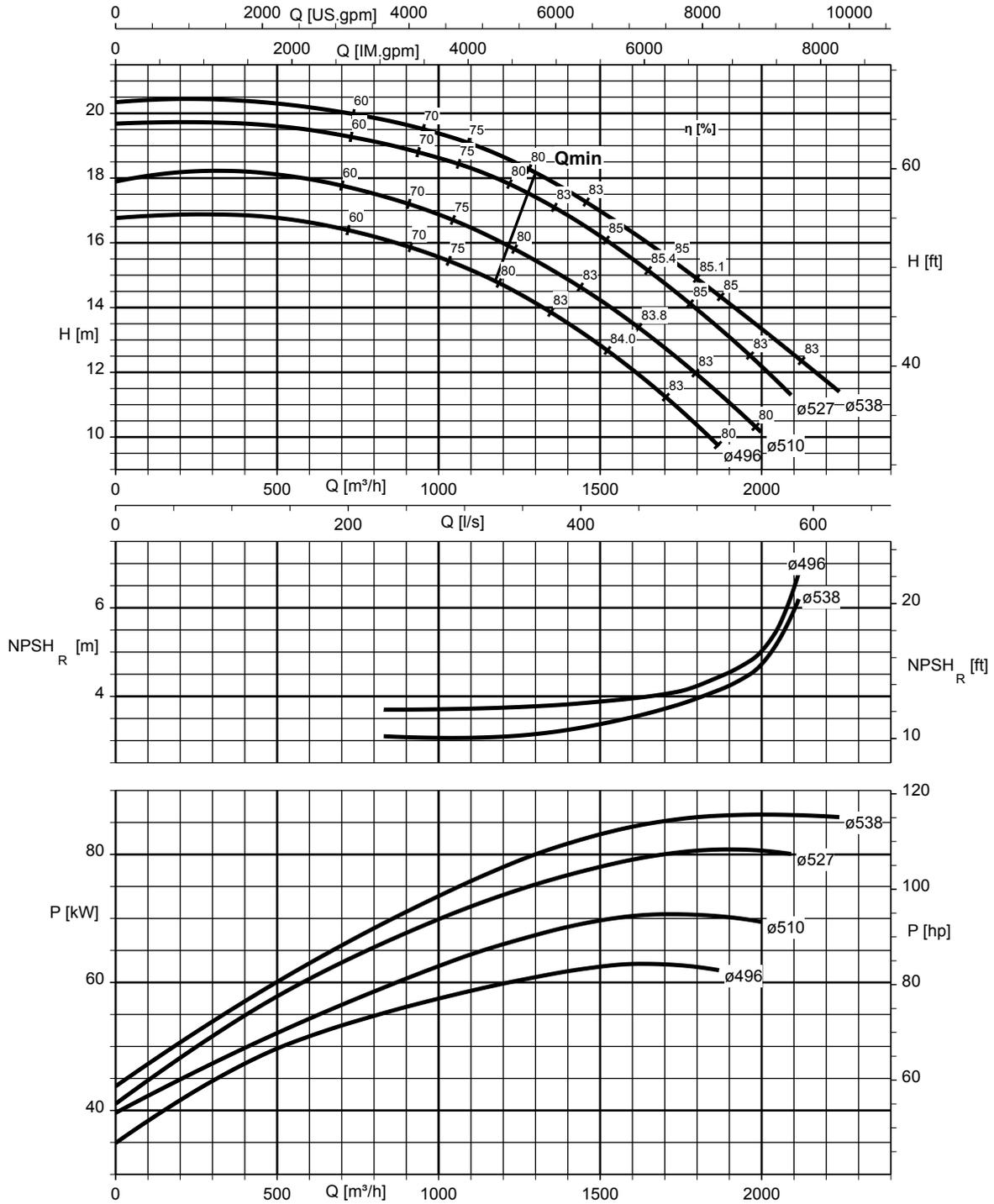


KWP K 400-400-503, n = 725 rpm



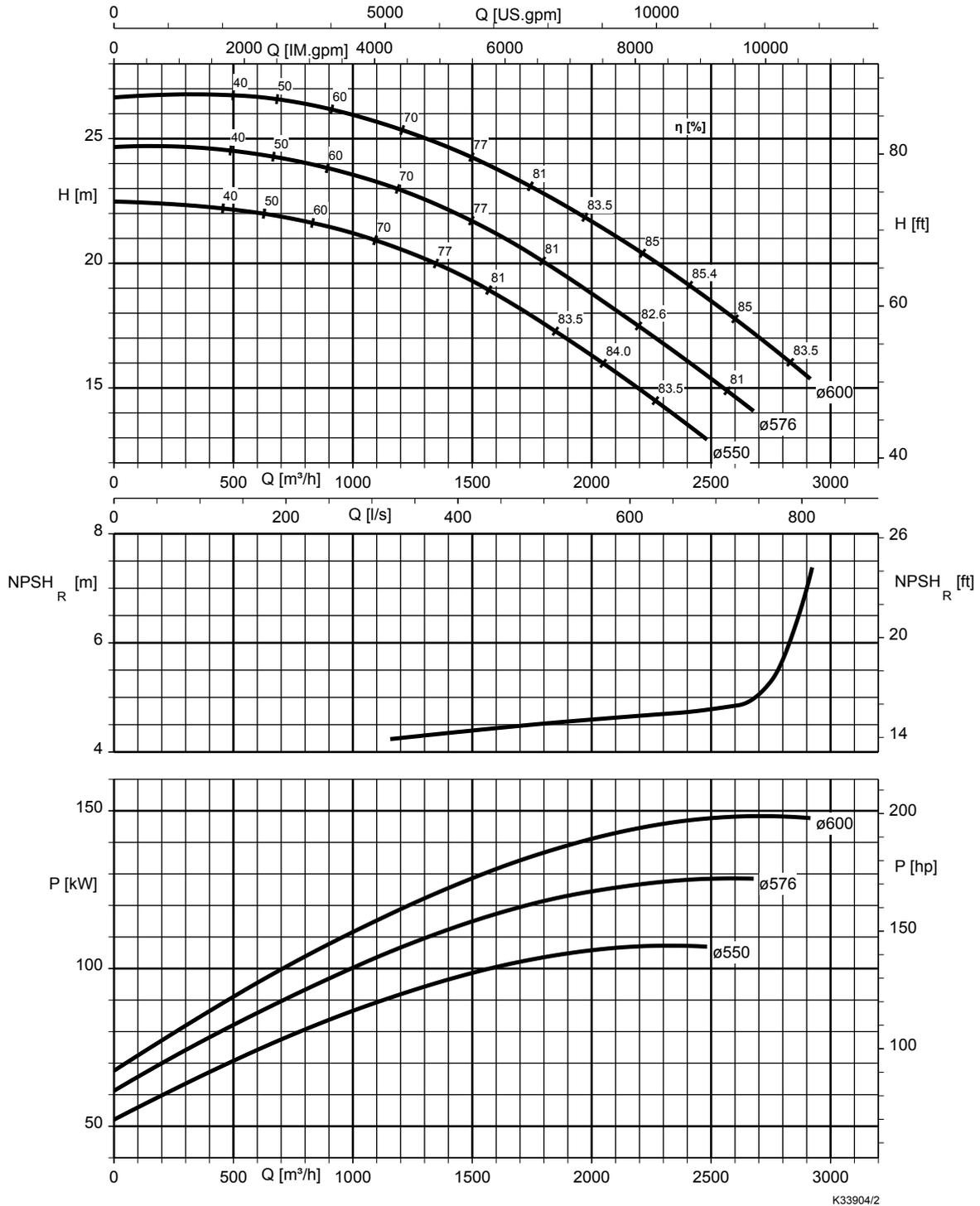
K33768/2

KWP K 400-400-533, n = 725 rpm

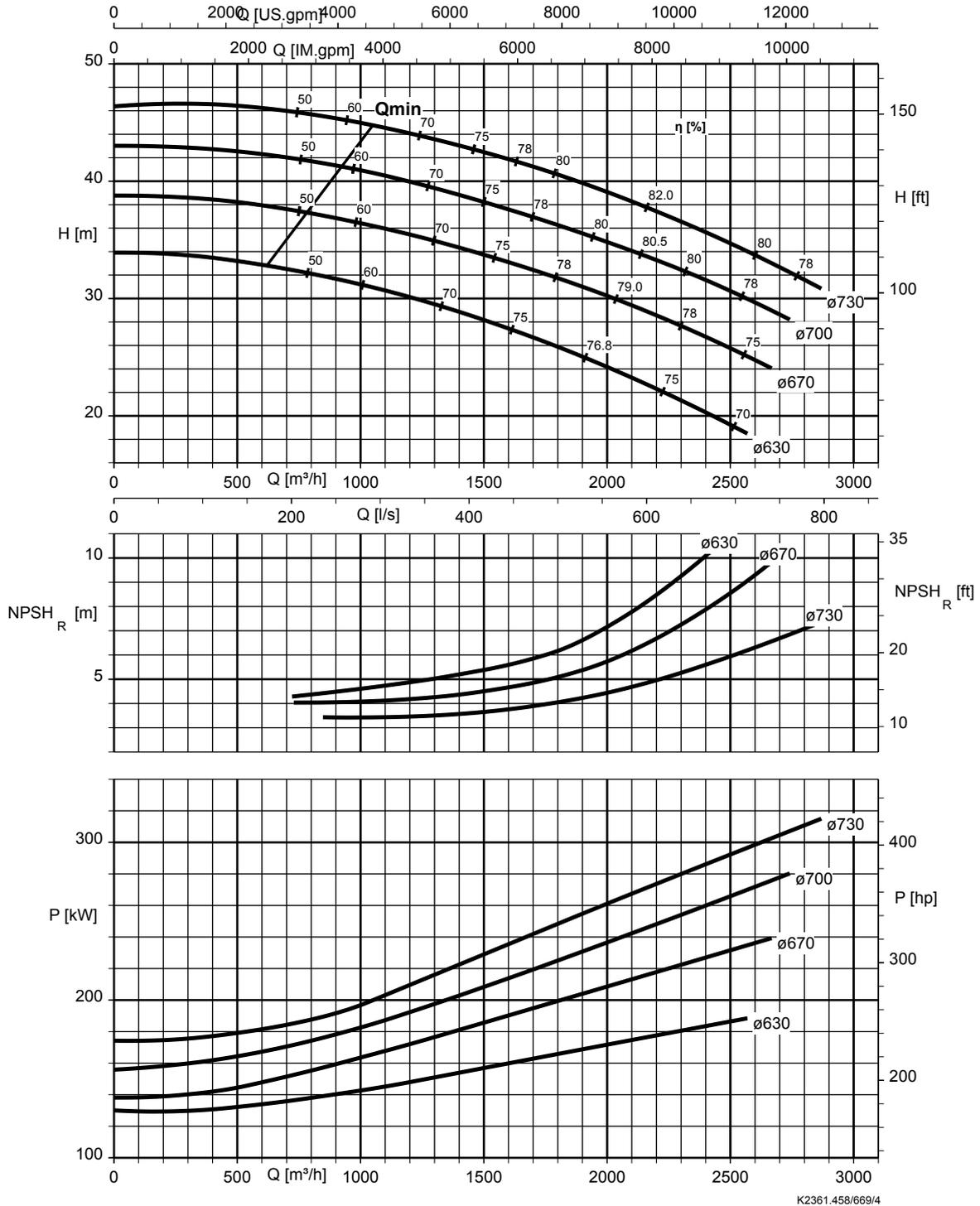


K63079/2

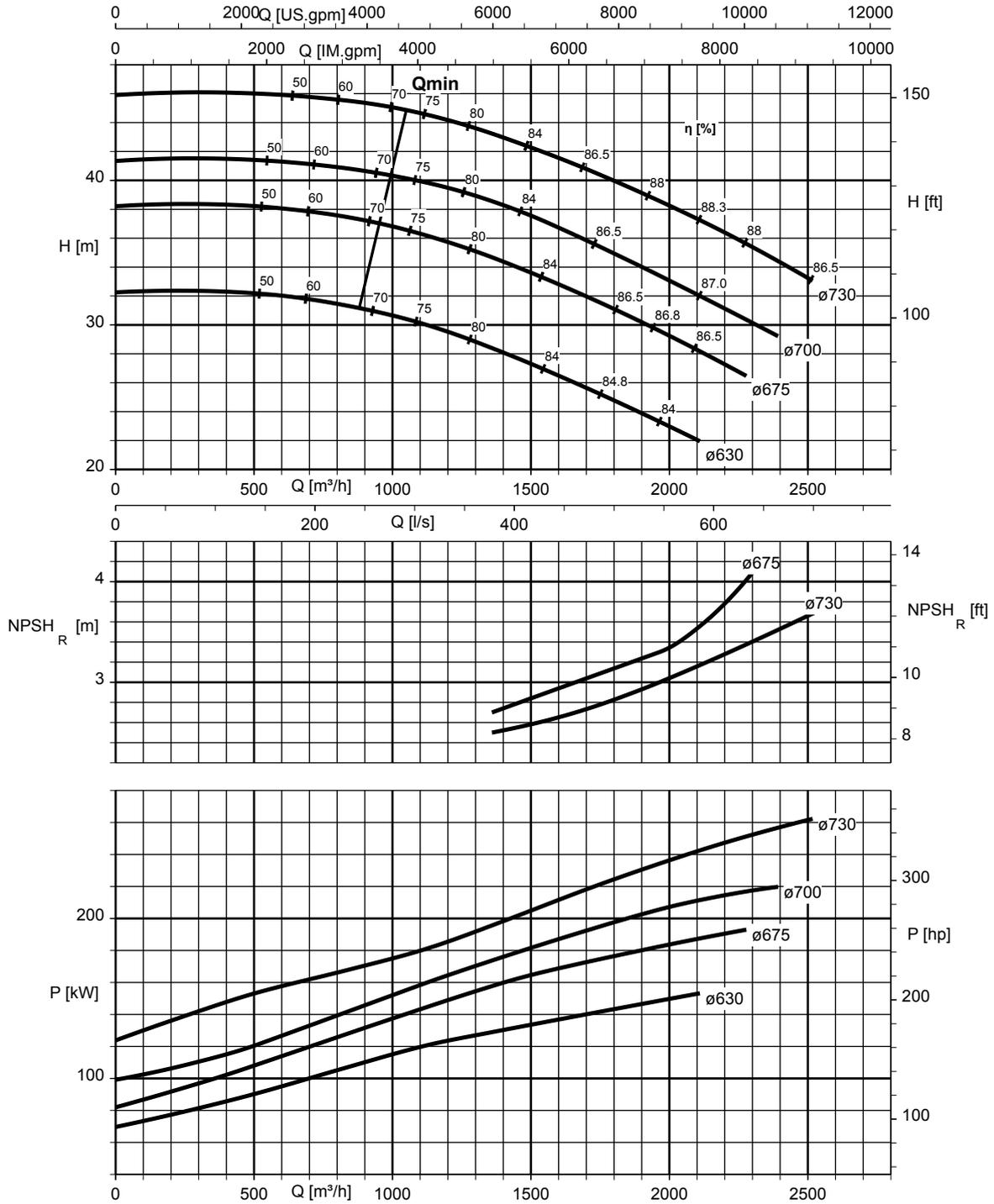
KWP K 400-400-583, n = 725 rpm



KWP K 500-400-710, n = 725 rpm

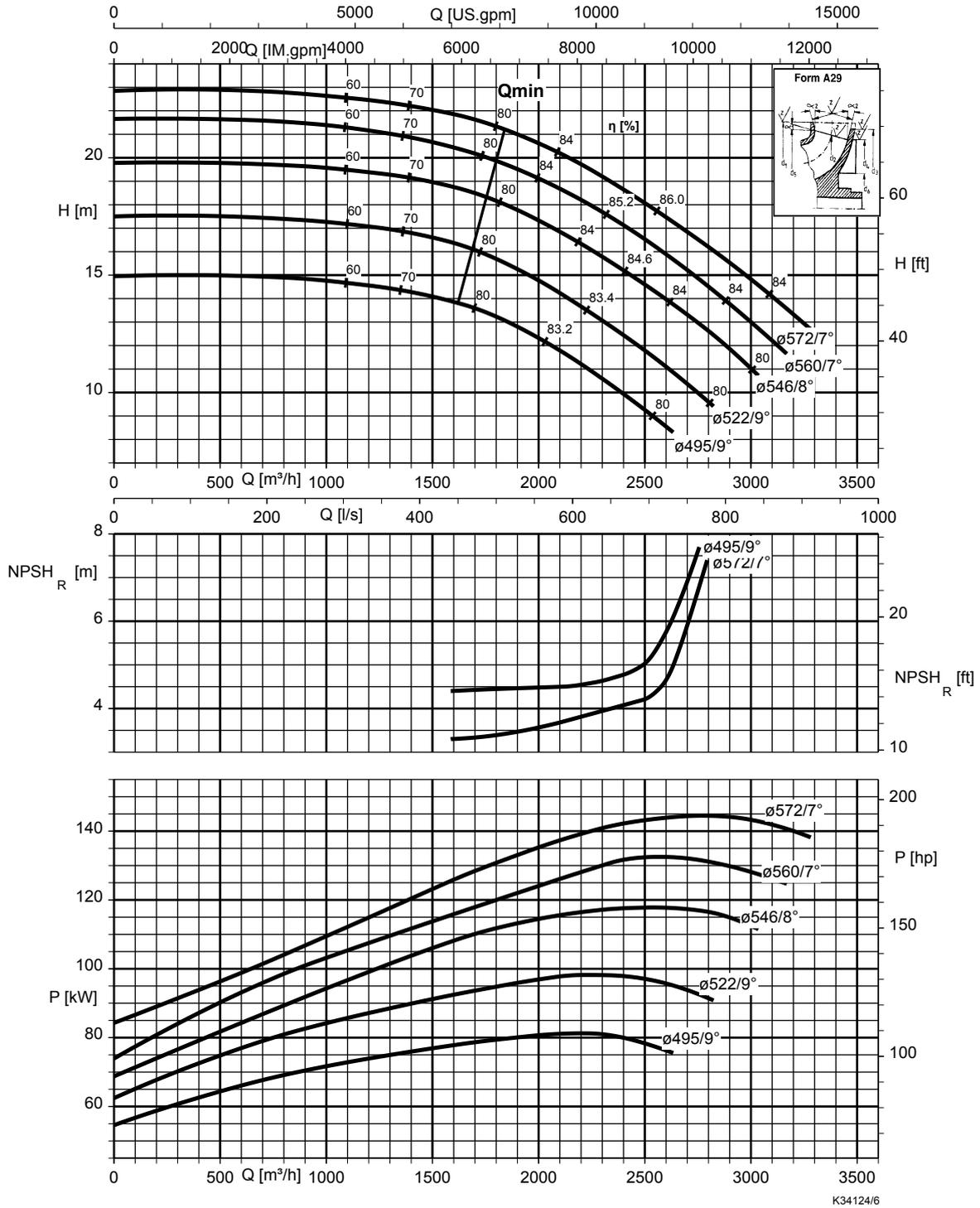


KWP K 500-400-713, n = 725 rpm

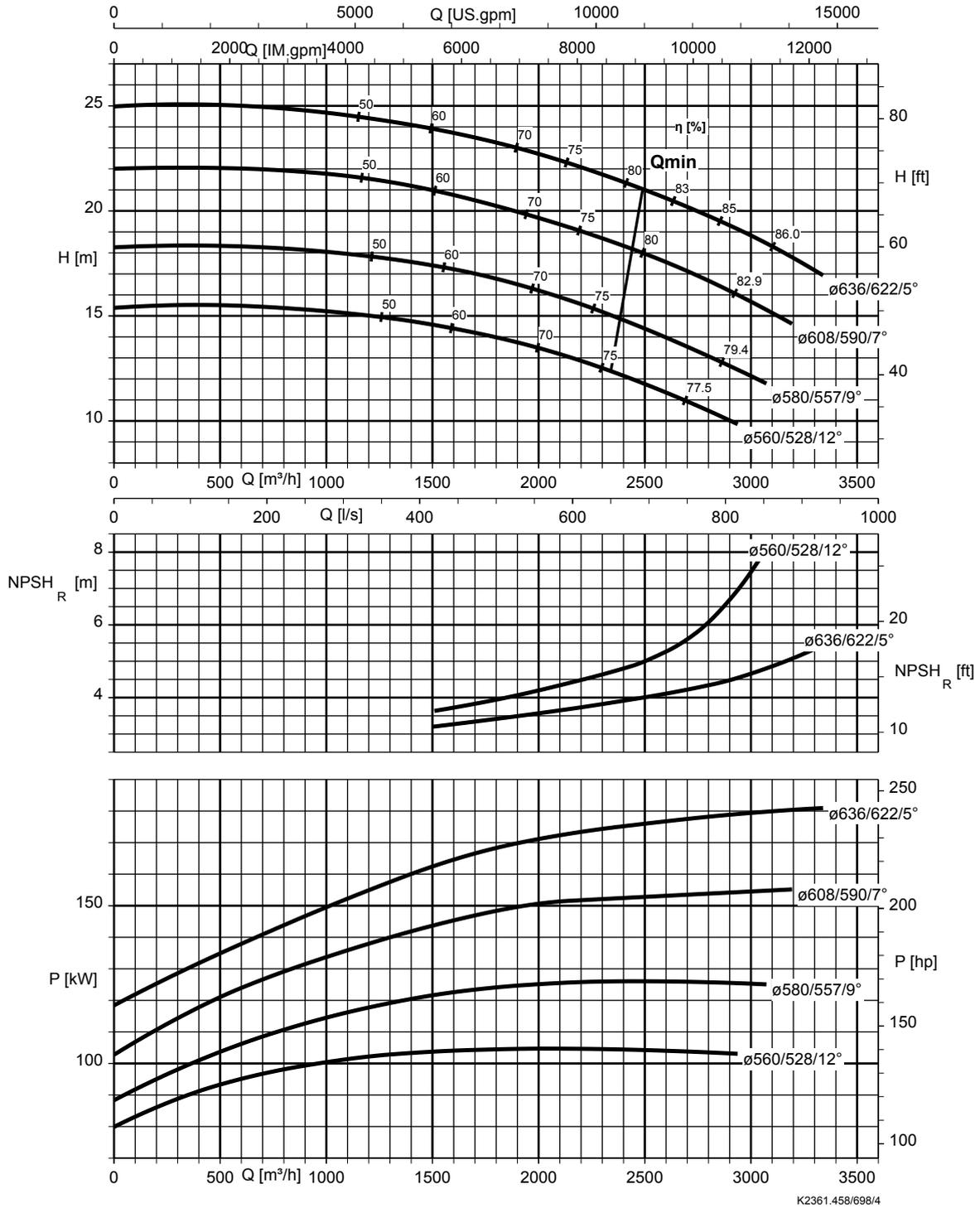


K33770/2

KWP K 500-500-544, n = 725 rpm

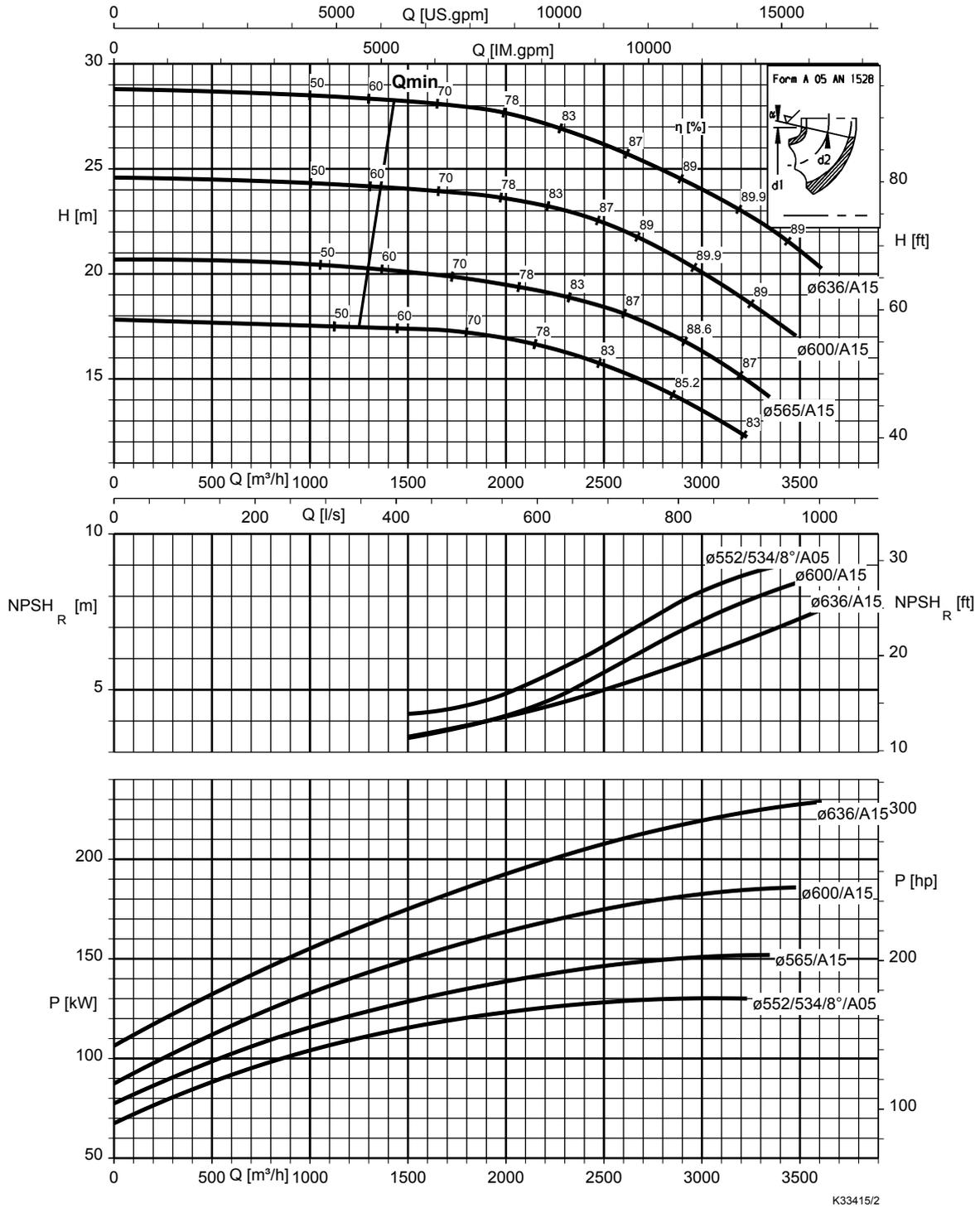


KWP K 500-500-630, n = 725 rpm



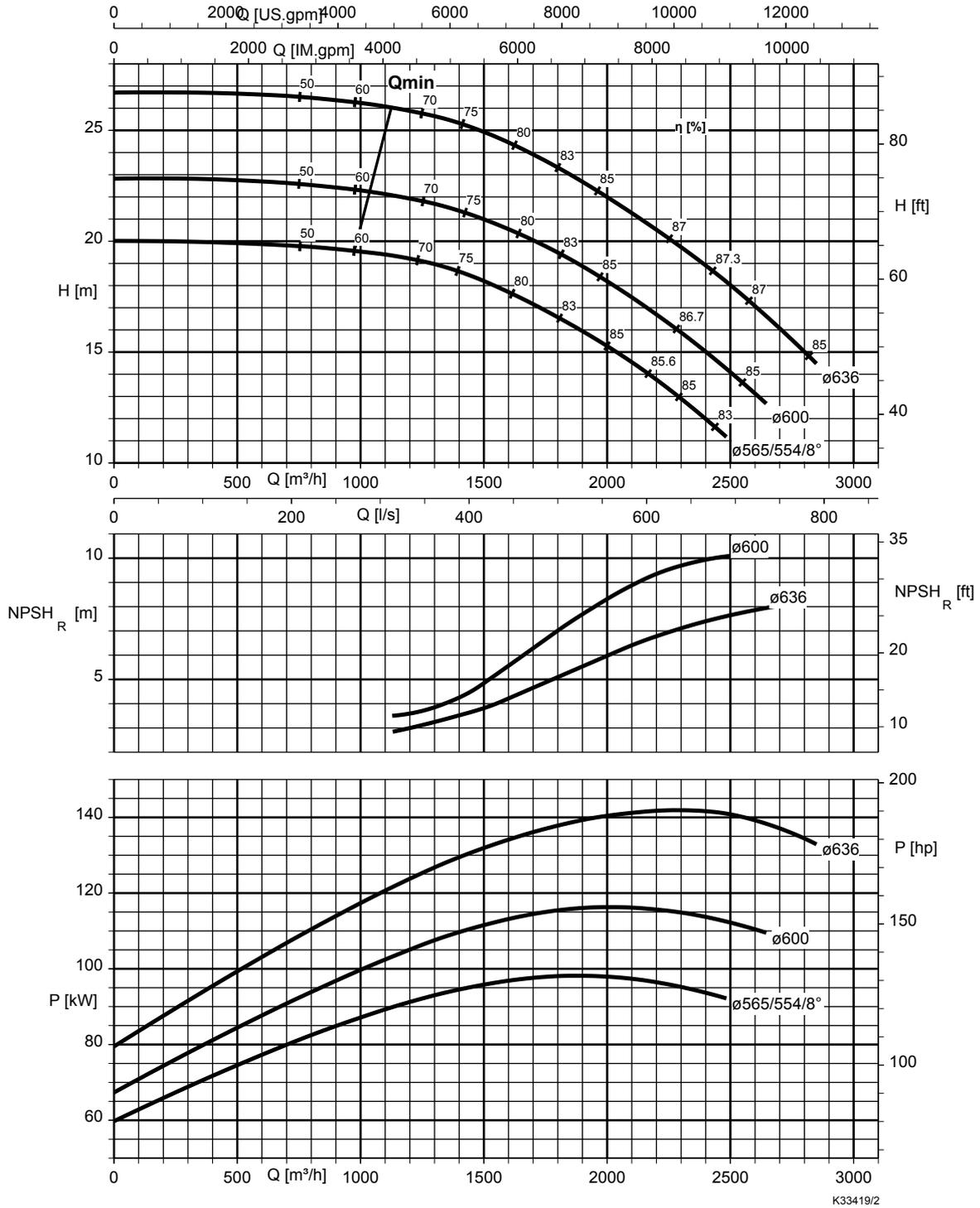
K2361.458/698/4

KWP K 500-500-633, n = 725 rpm



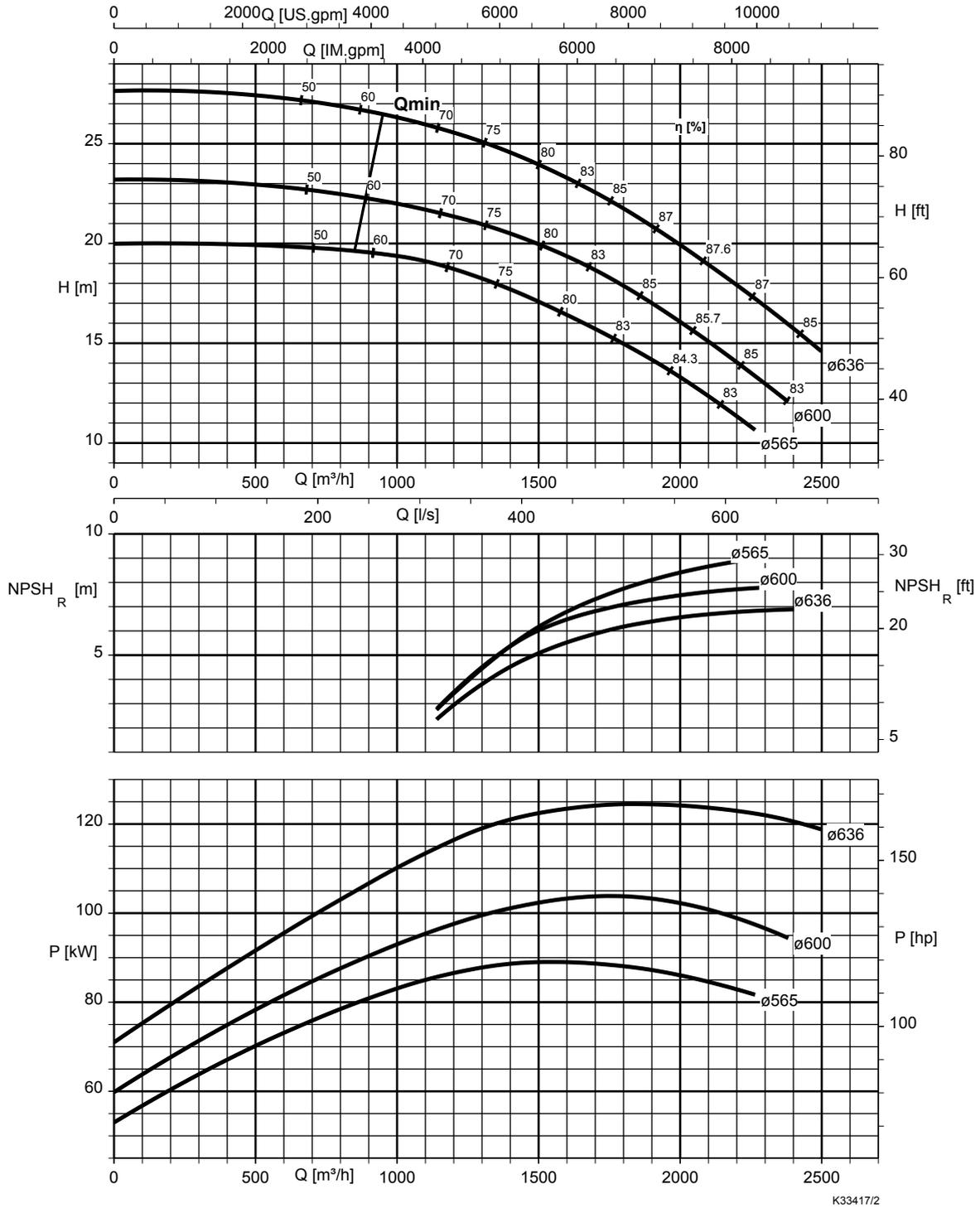
K33415/2

KWP K 500-500-634, n = 725 rpm



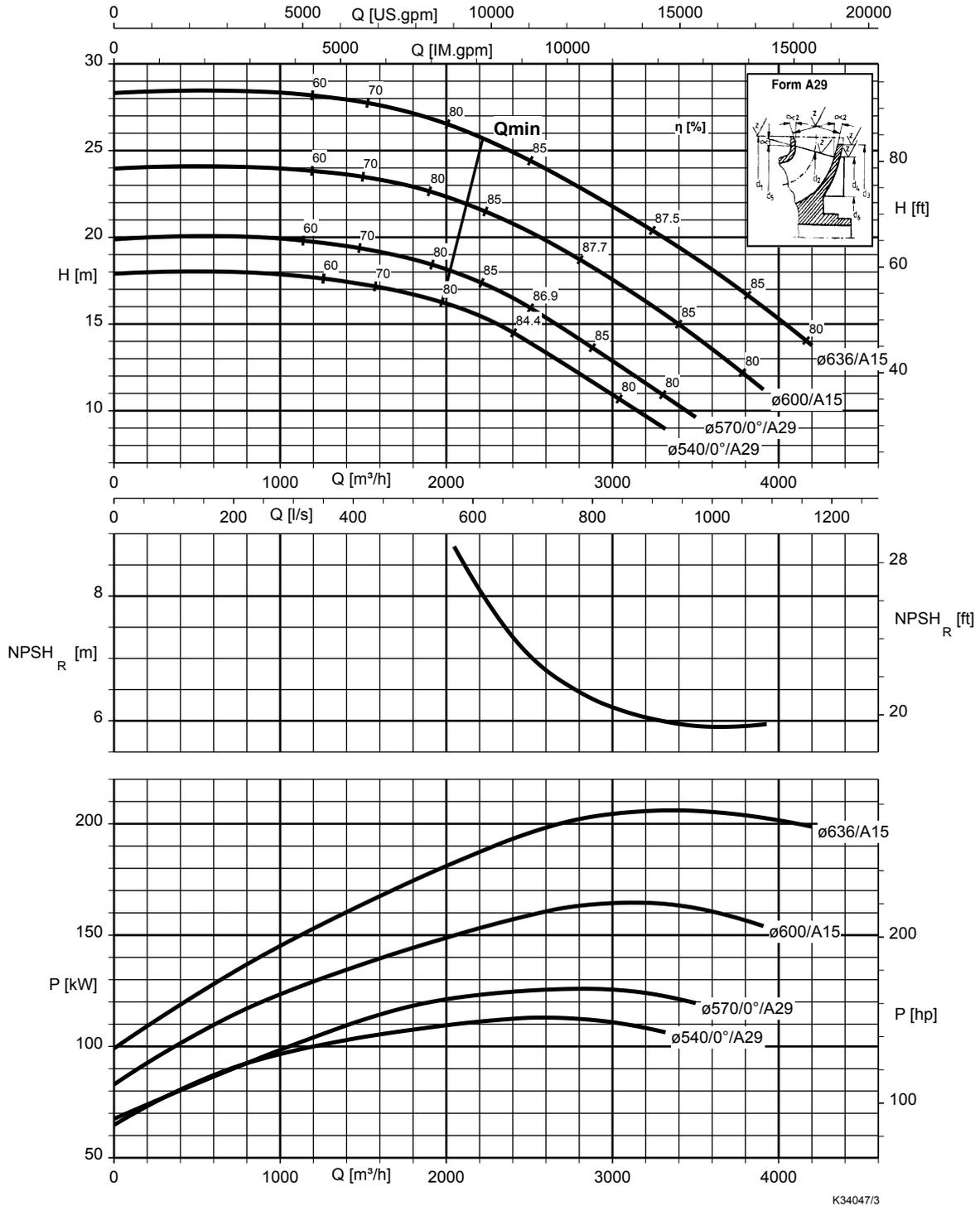
K33419/2

KWP K 500-500-635, n = 725 rpm

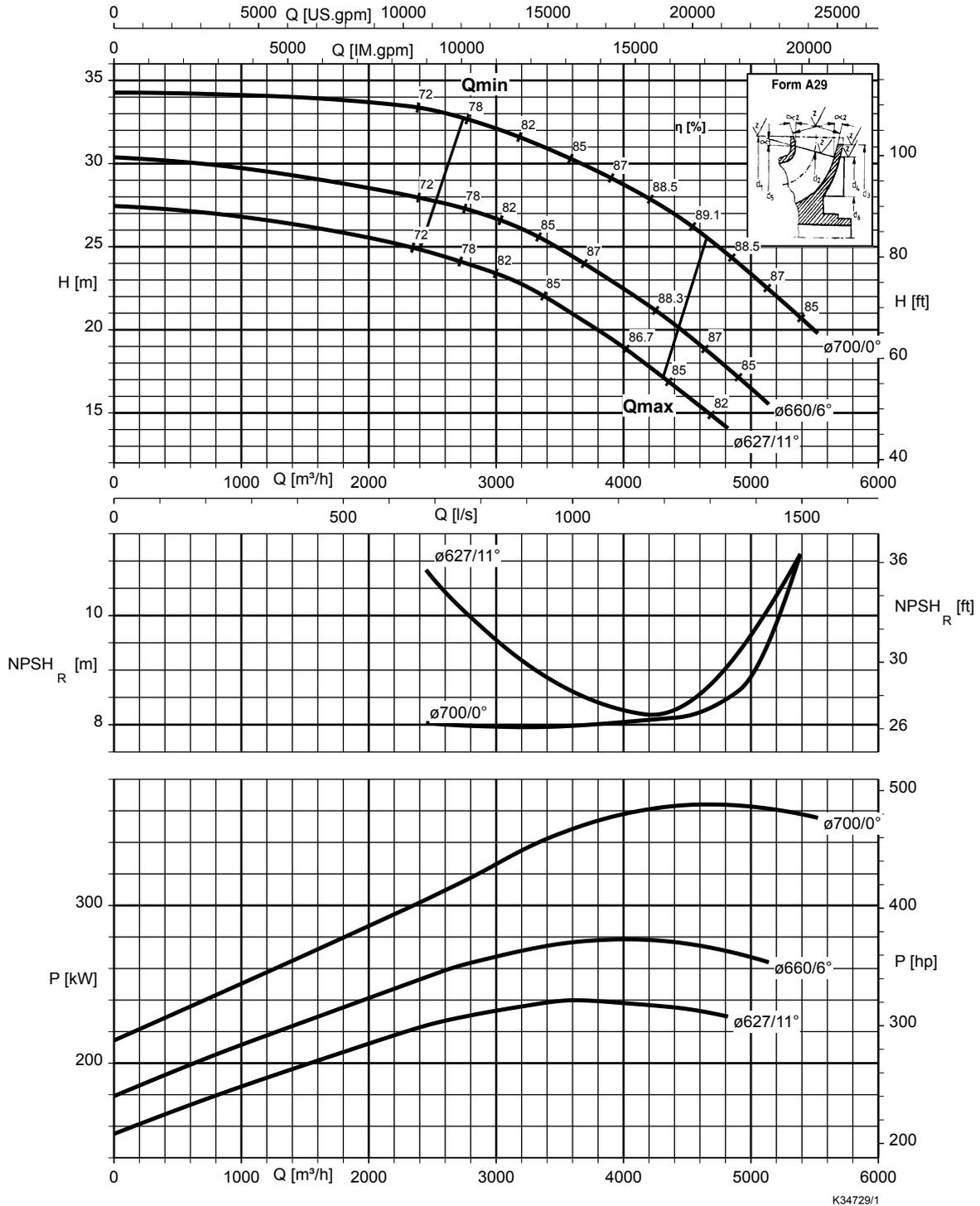


K33417/2

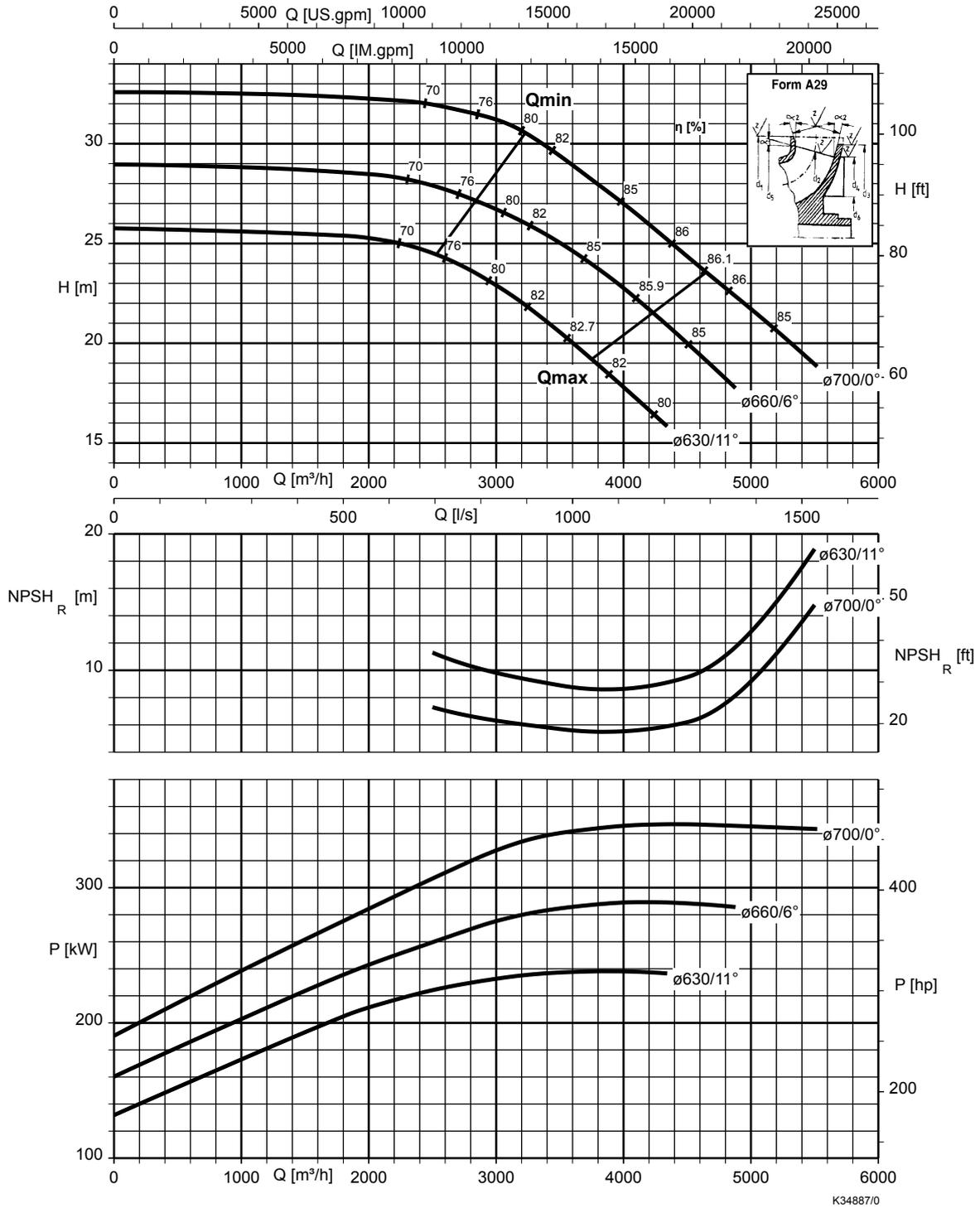
KWP K 500-500-637, n = 725 rpm



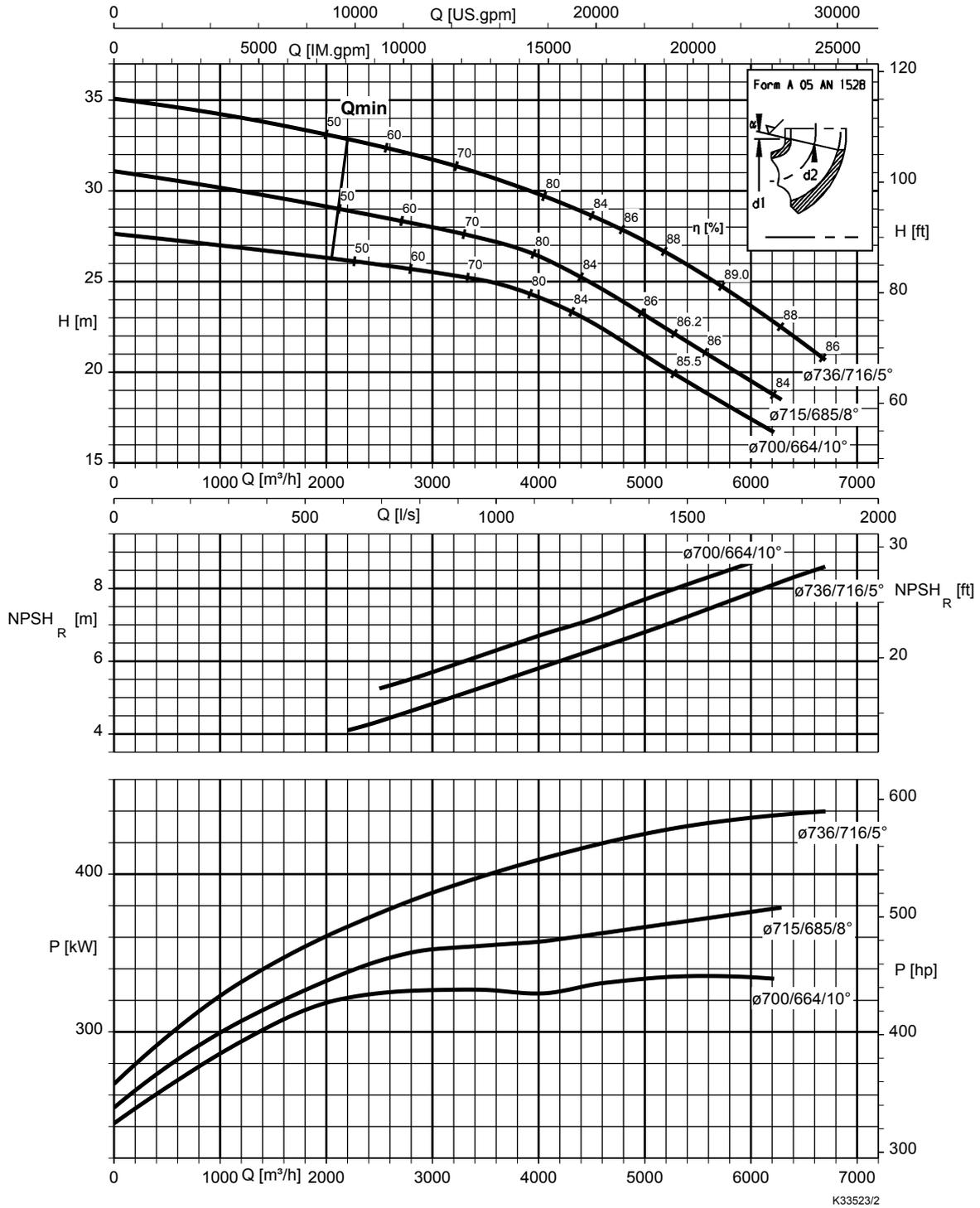
KWP K 600-600-663, n = 725 rpm



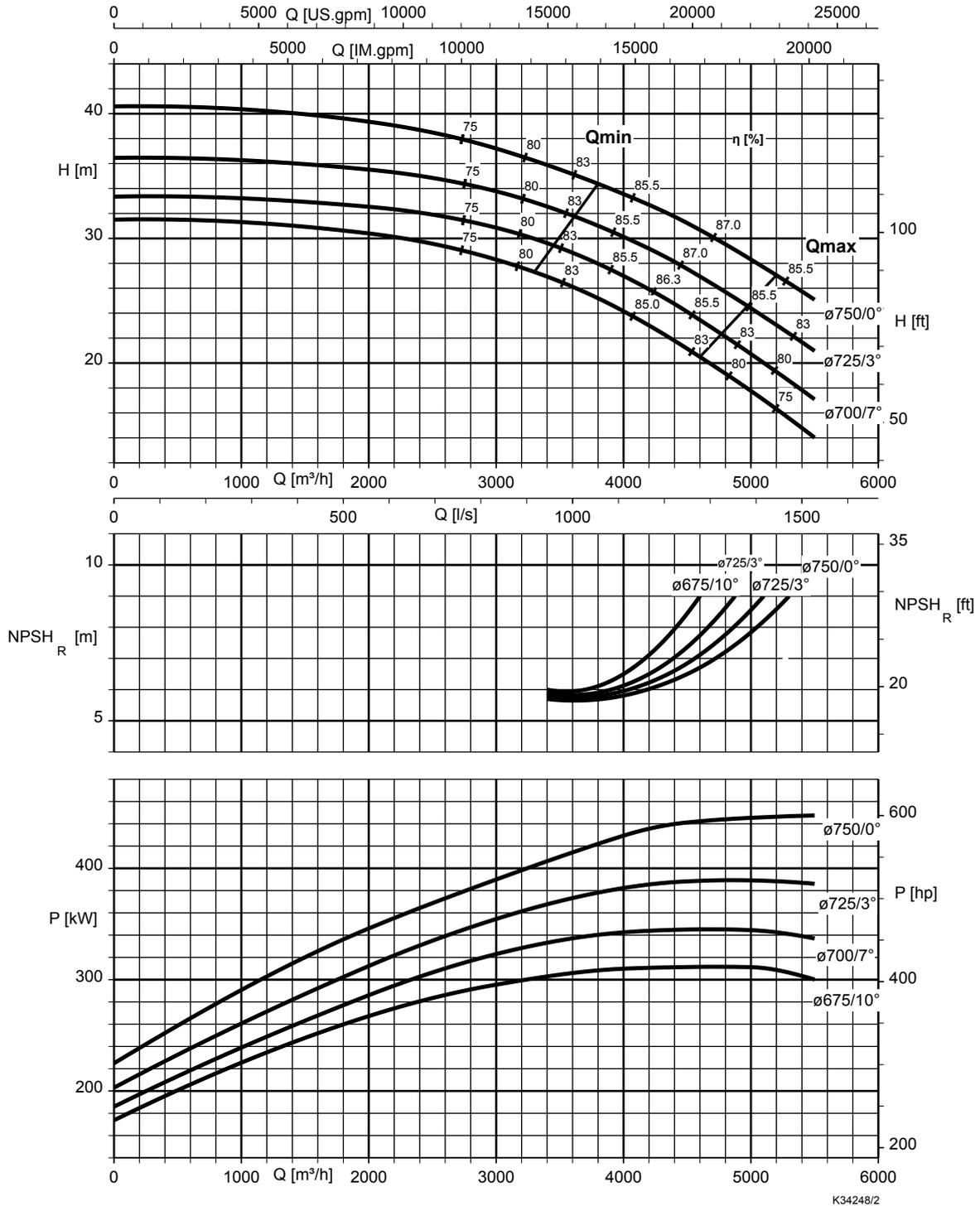
KWP K 600-600-669, n = 725 rpm



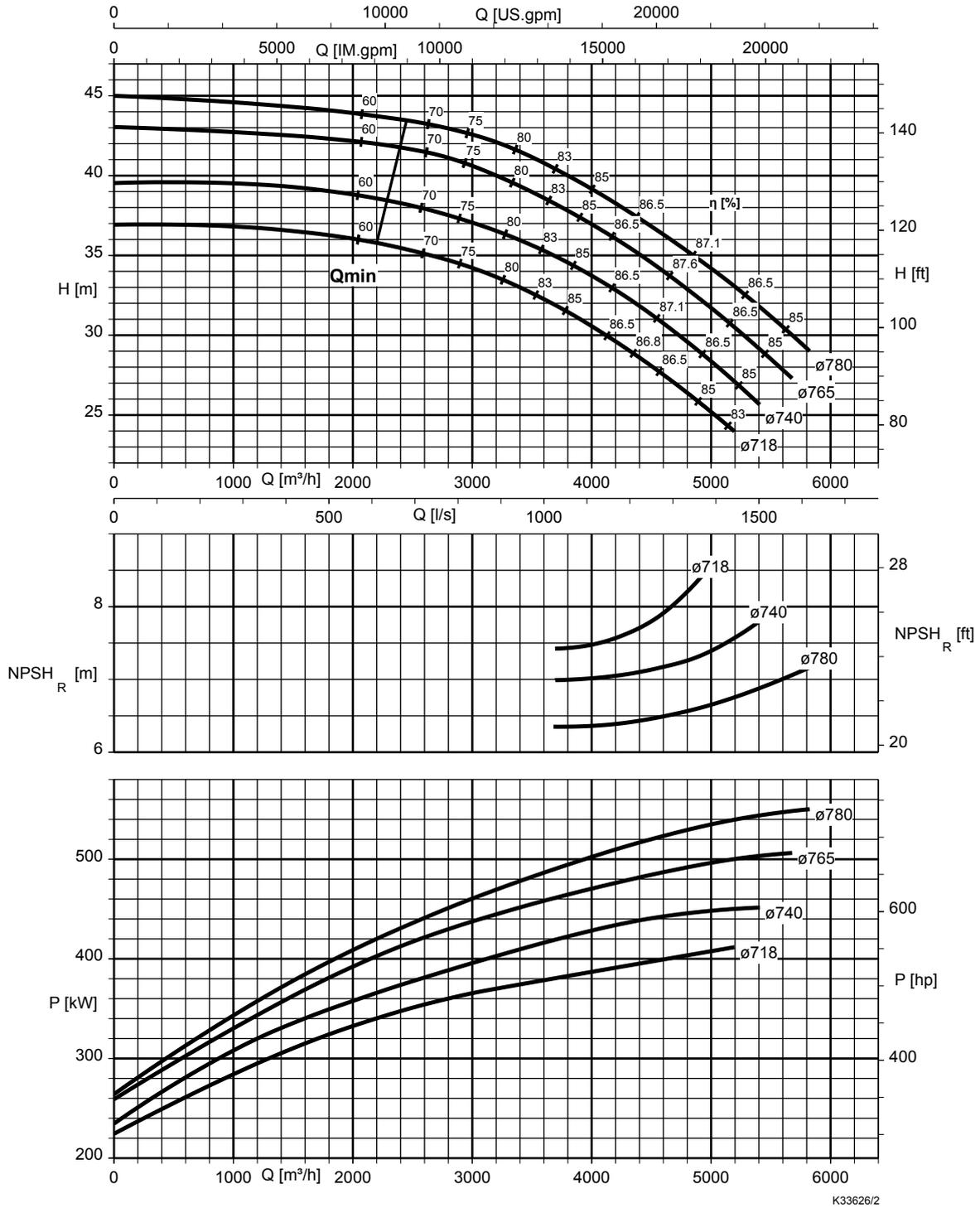
KWP K 600-600-710, n = 725 rpm



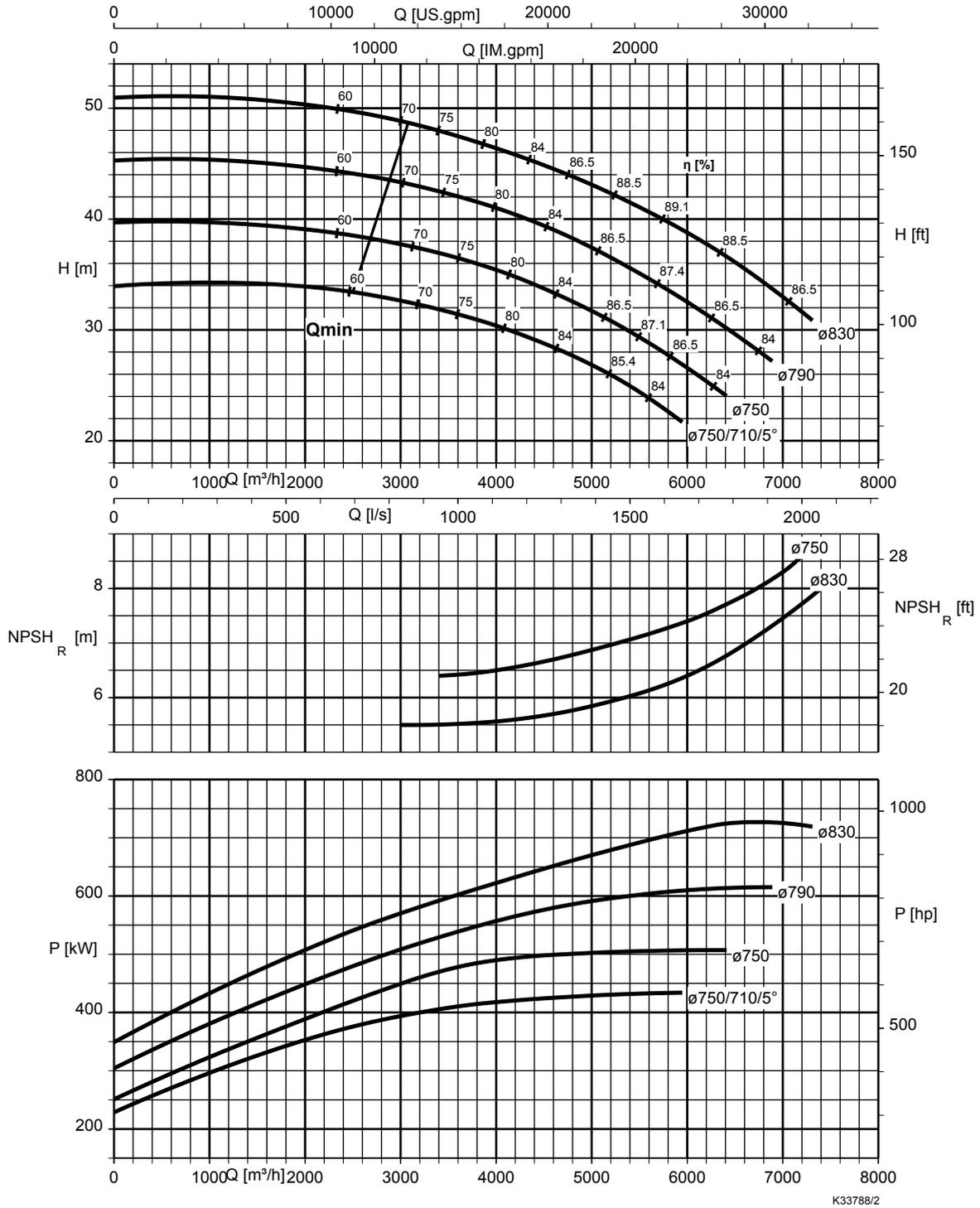
KWP K 600-600-753, n = 725 rpm



KWP K 600-600-803, n = 725 rpm

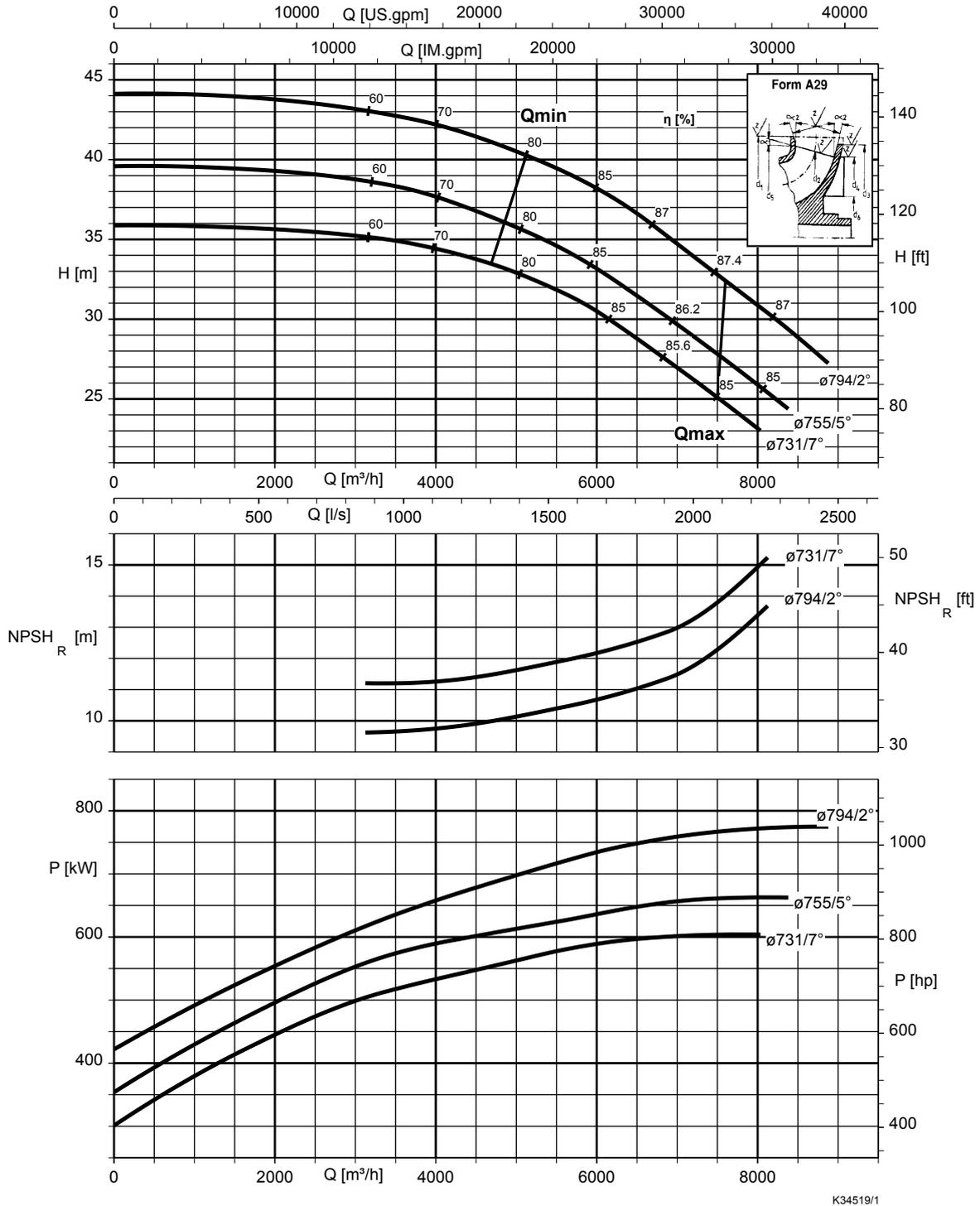


KWP K 600-600-813, n = 725 rpm

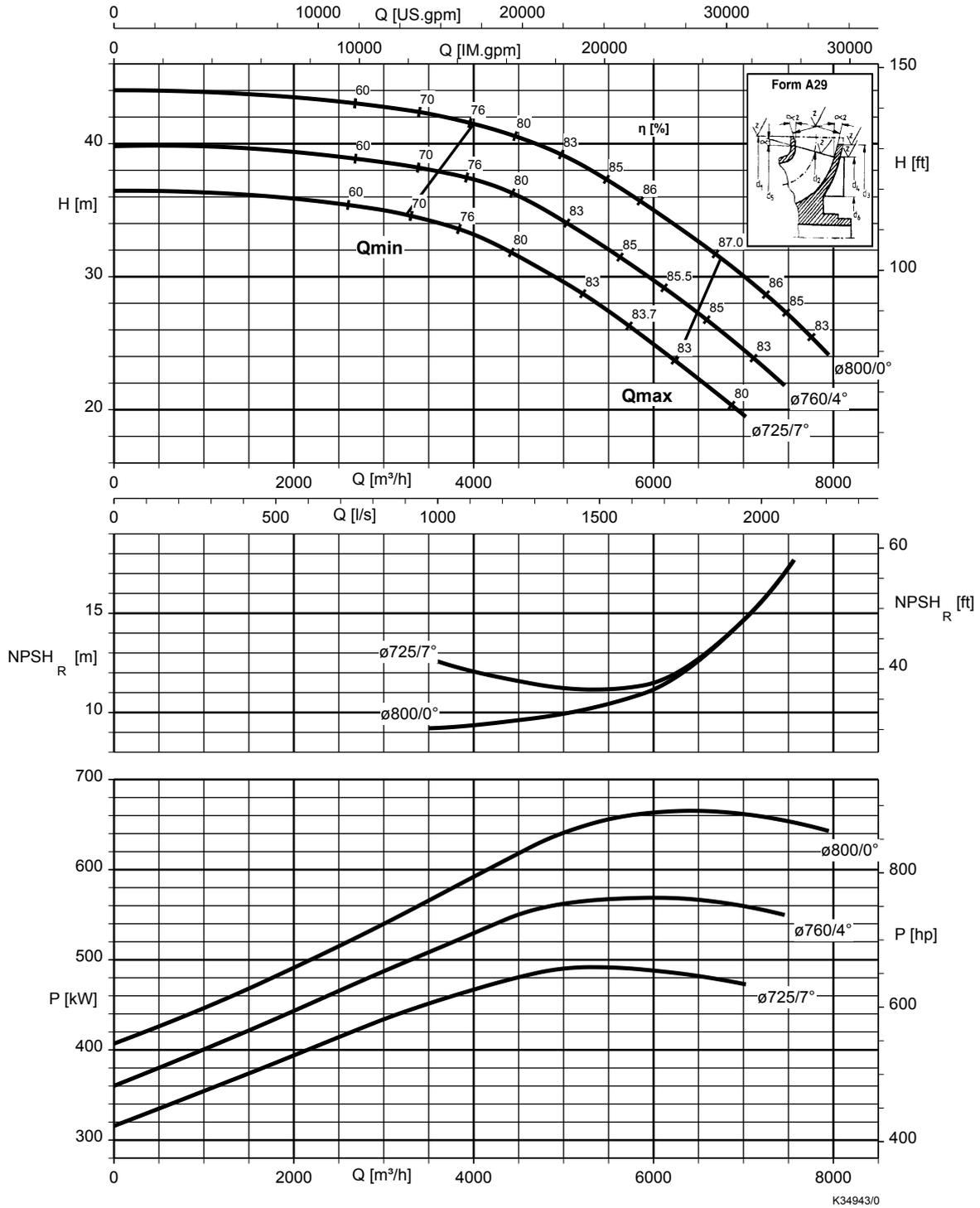


K33788/2

KWP K 600-600-824, n = 725 rpm

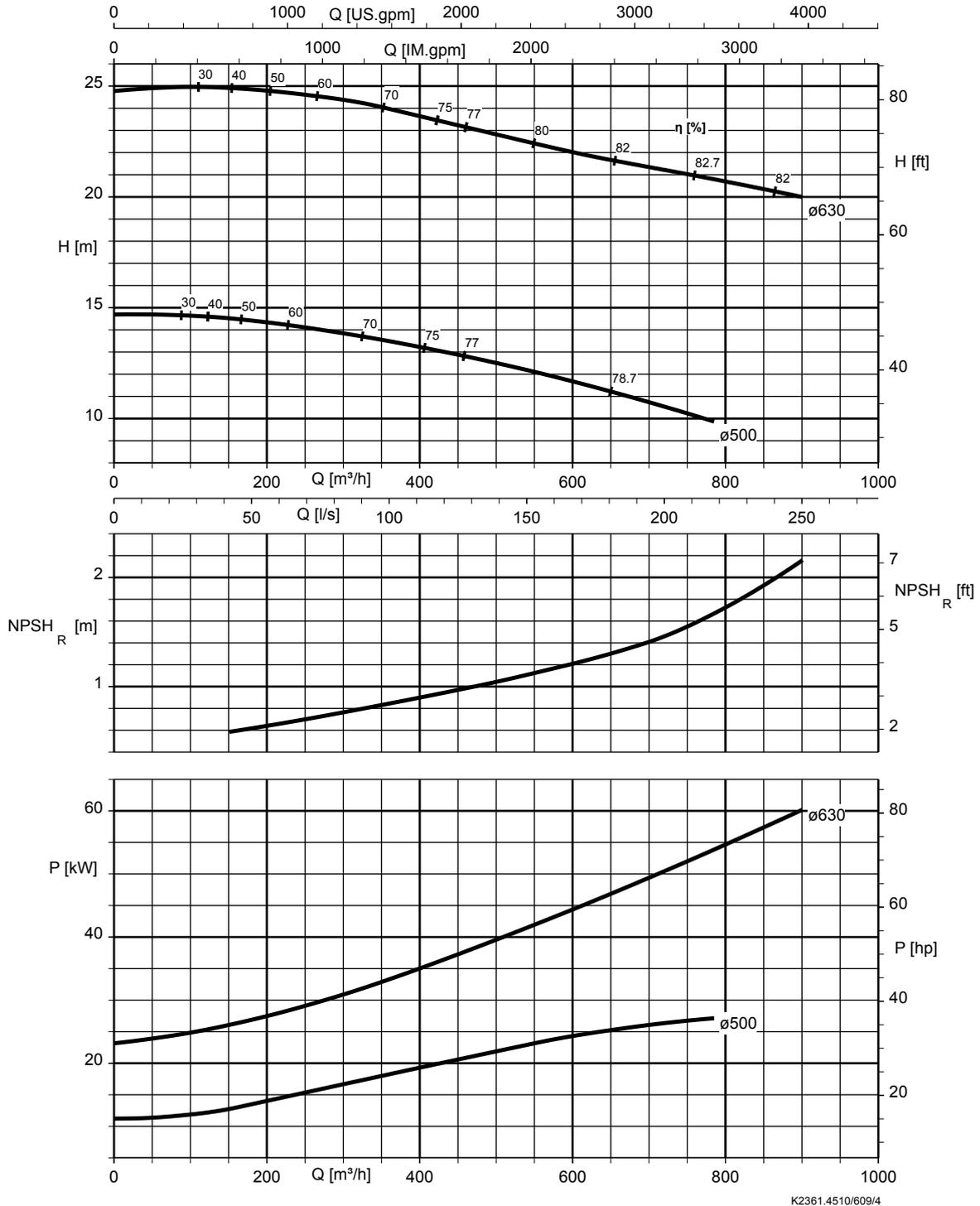


KWP K 600-600-825, n = 725 rpm



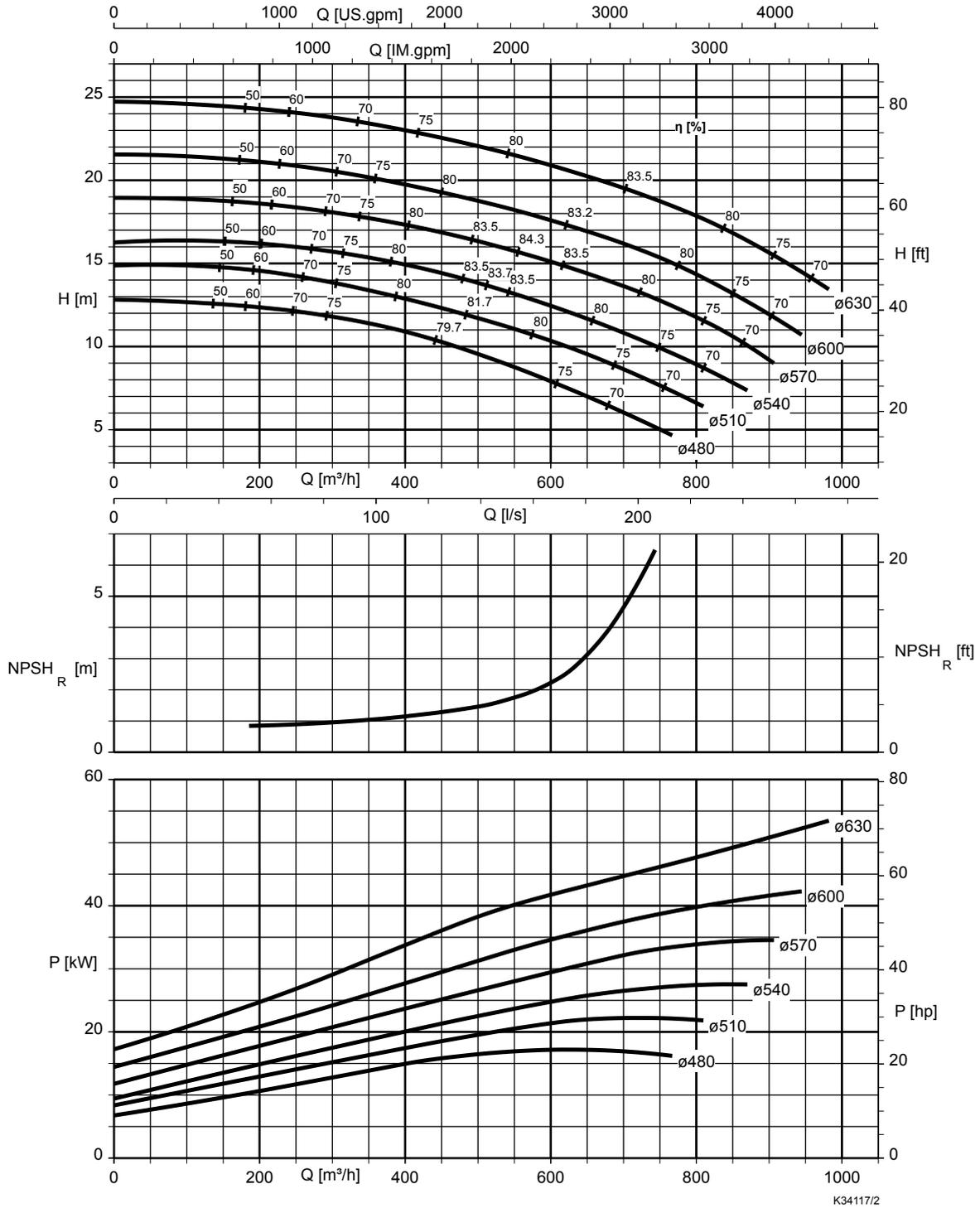
n = 580 rpm

KWP K 250-250-630, n = 580 rpm

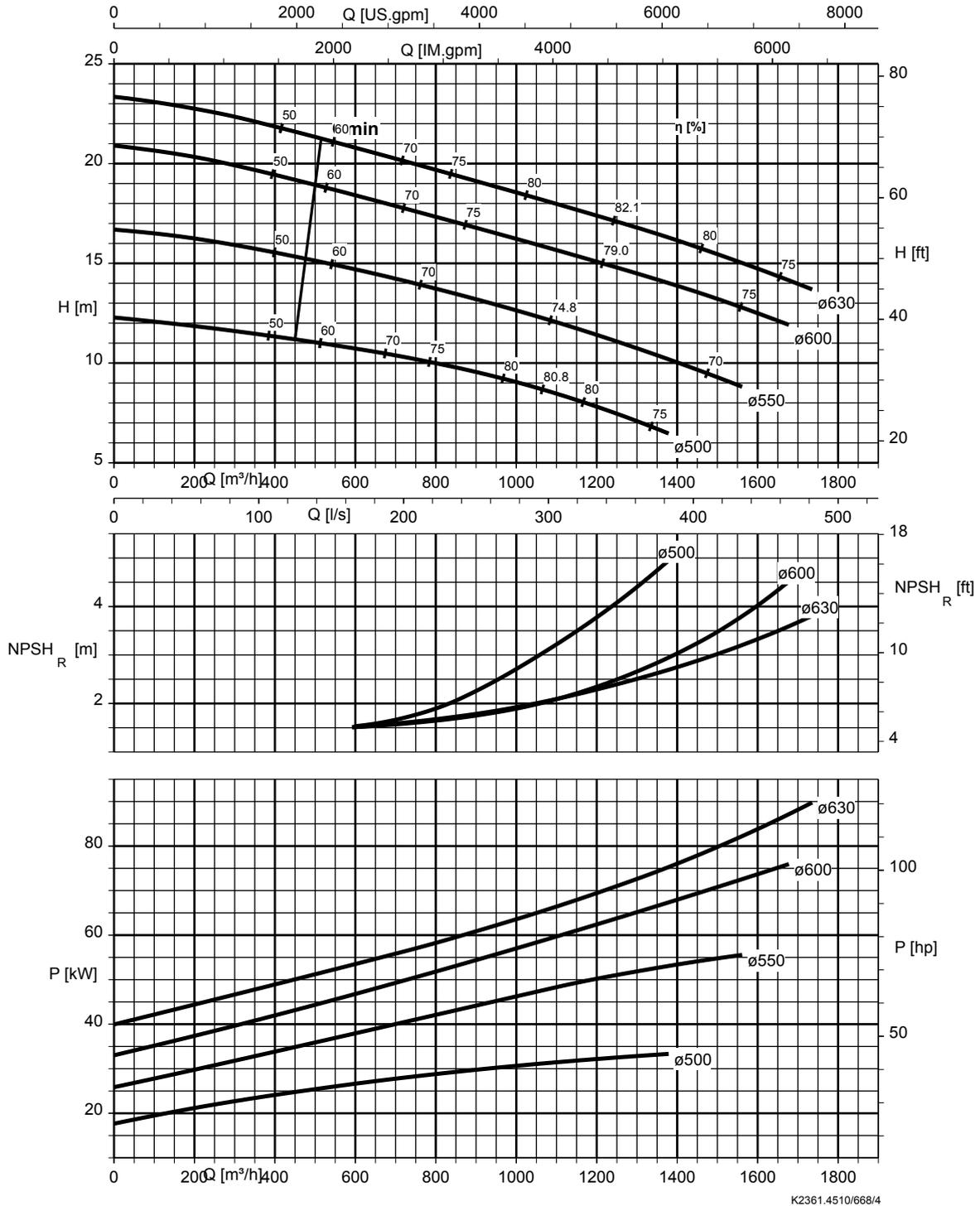


K2361.4510/609/4

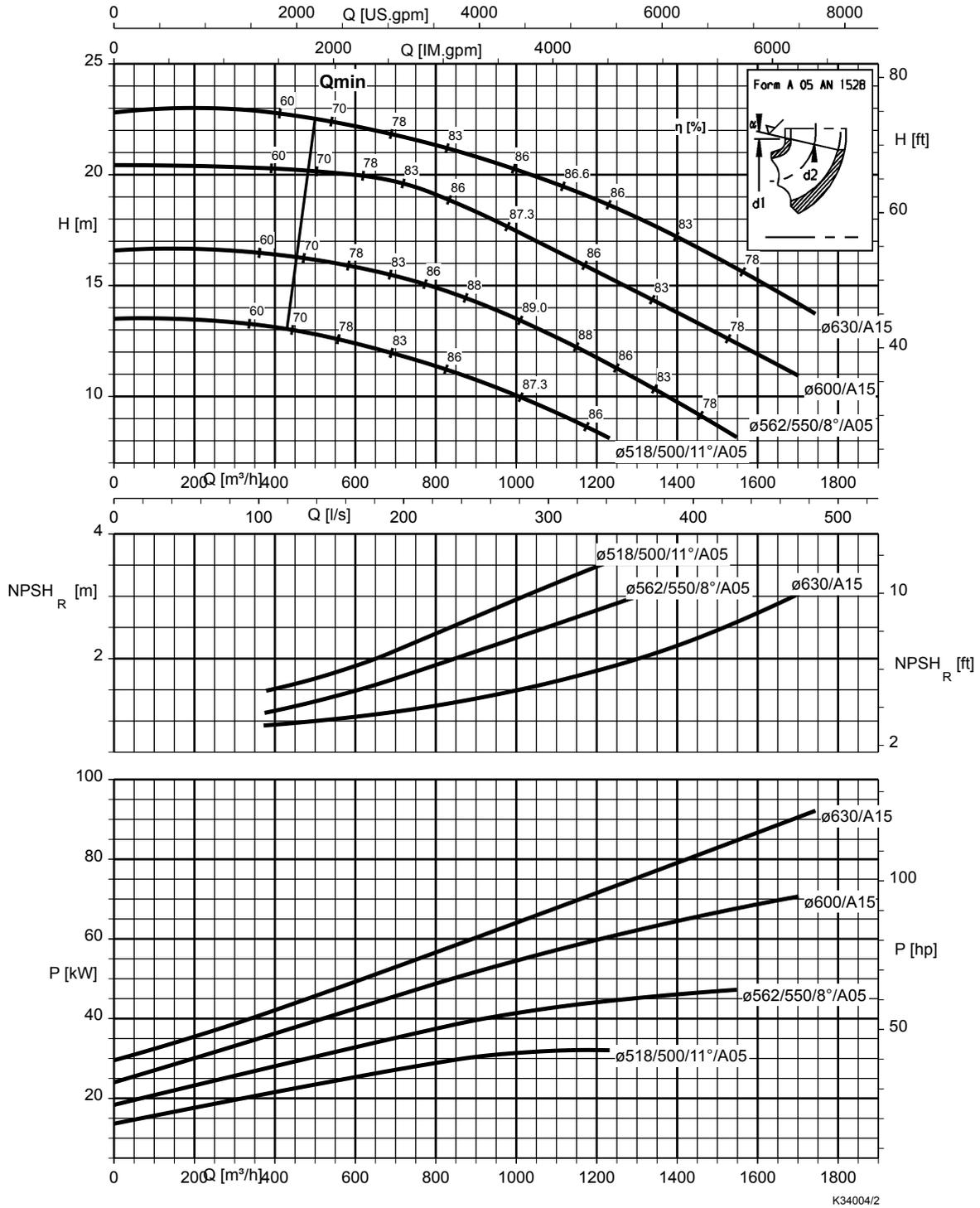
KWP K 250-250-634, n = 580 rpm



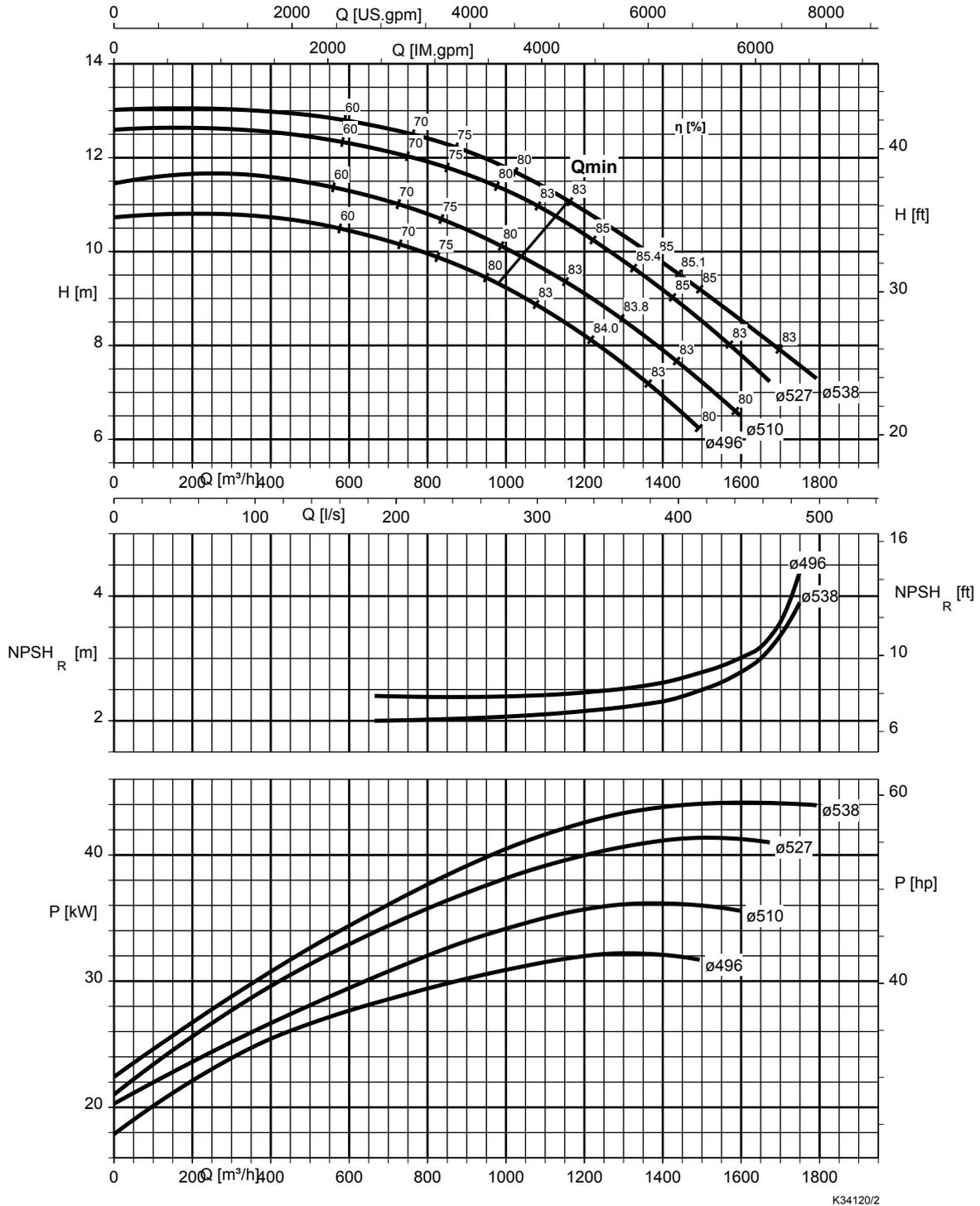
KWP K 350-350-630, n = 580 rpm



KWP K 350-350-633, n = 580 rpm

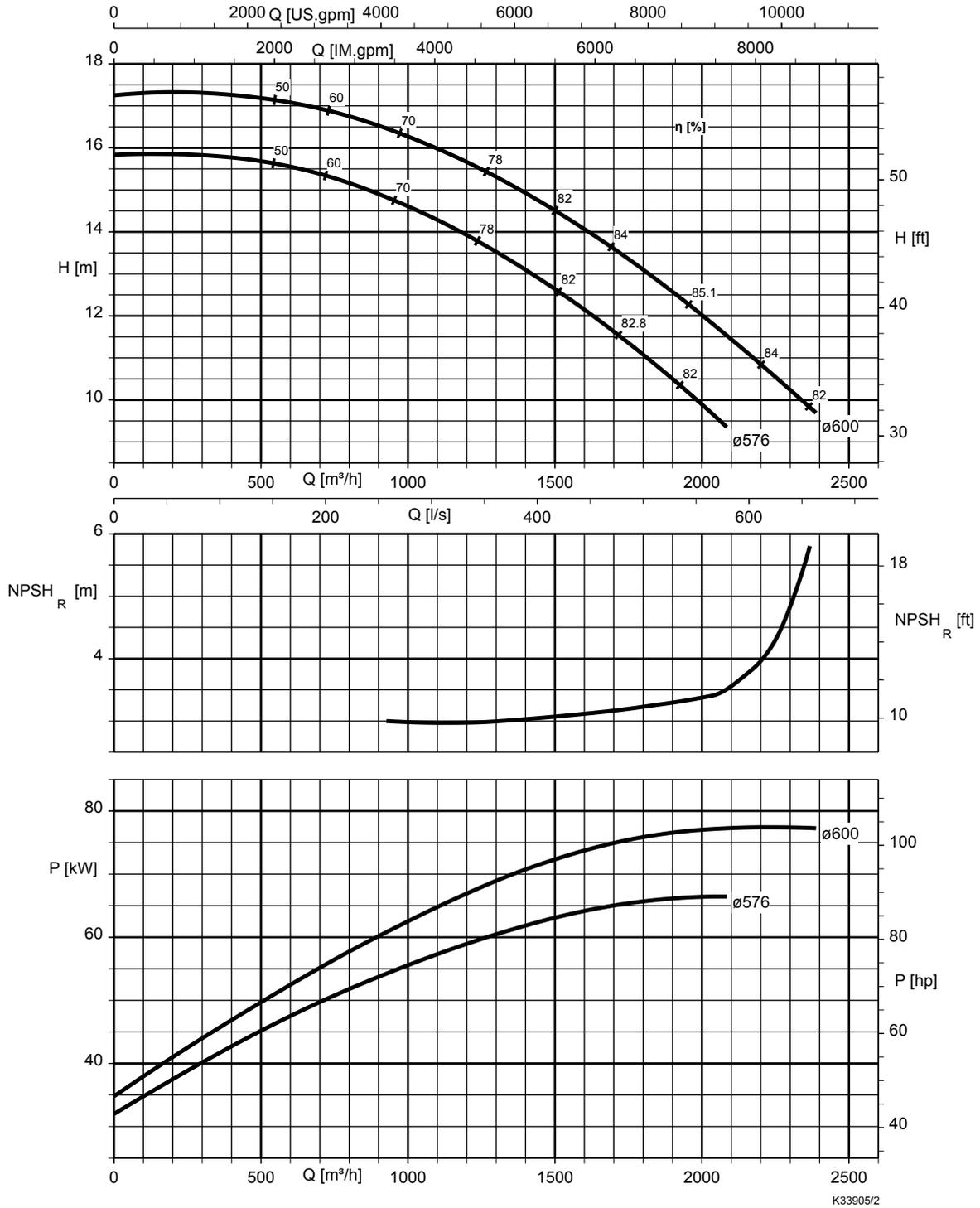


KWP K 400-400-533, n = 580 rpm

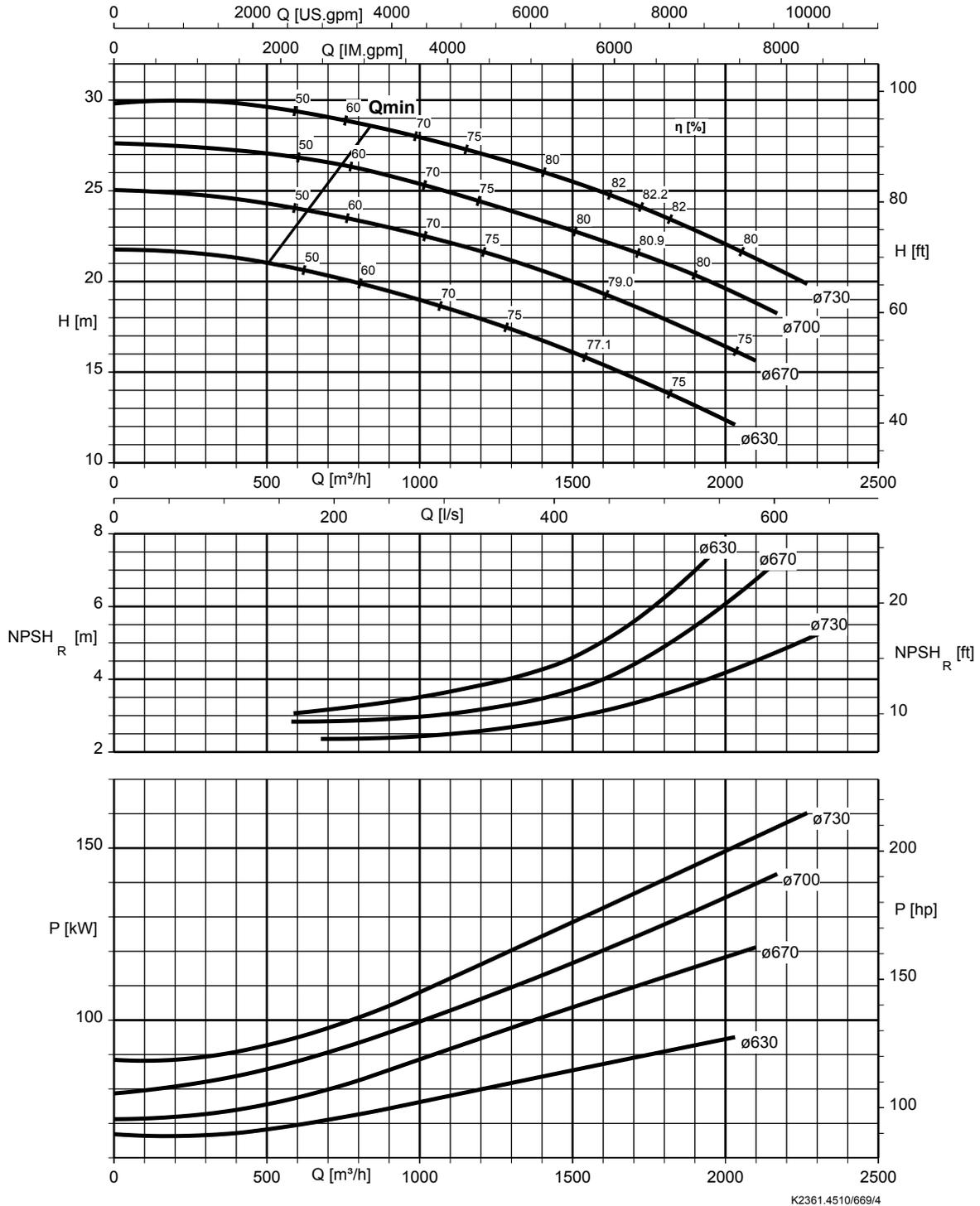


K34120/2

KWP K 400-400-583, n = 580 rpm

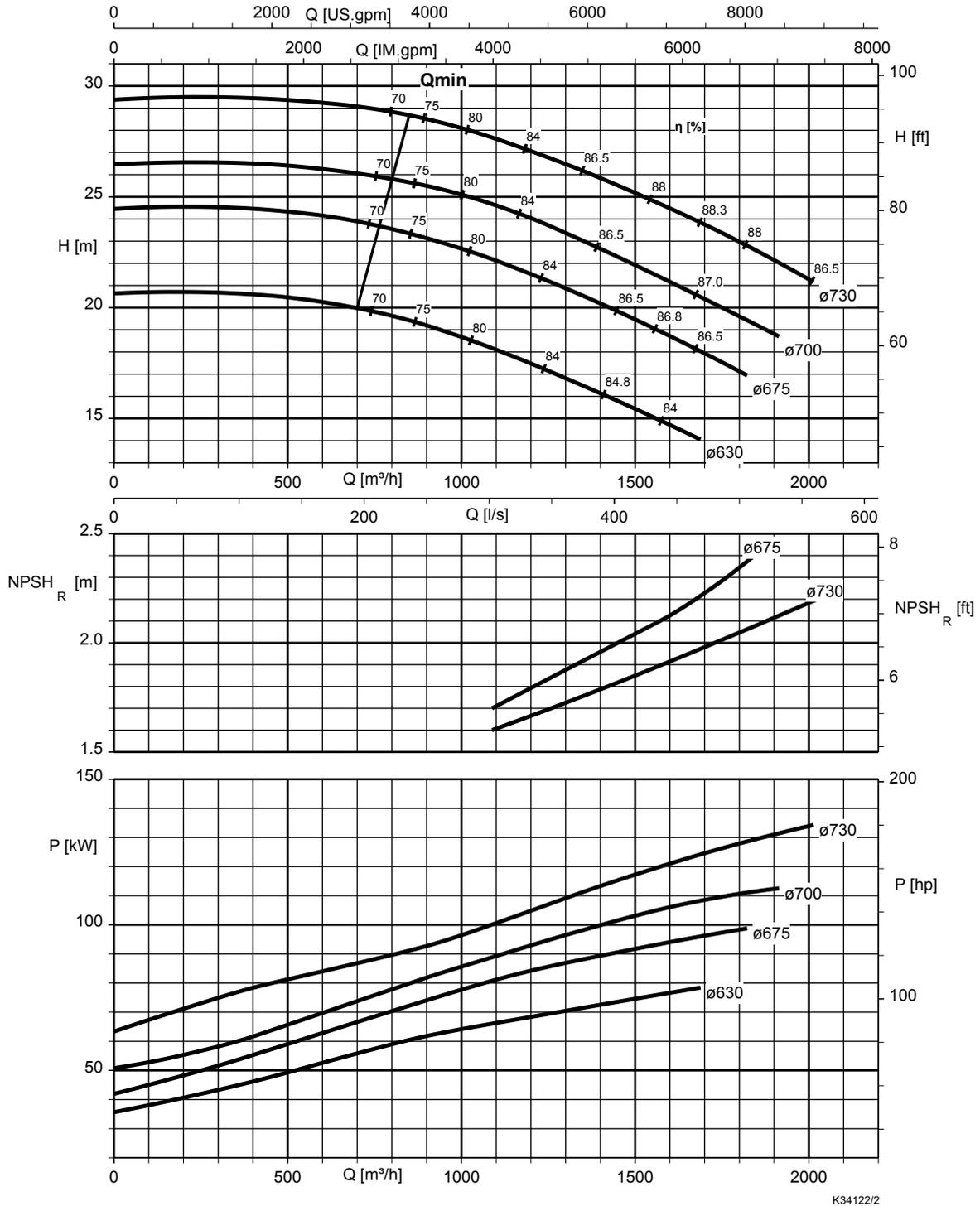


KWP K 500-400-710, n = 580 rpm



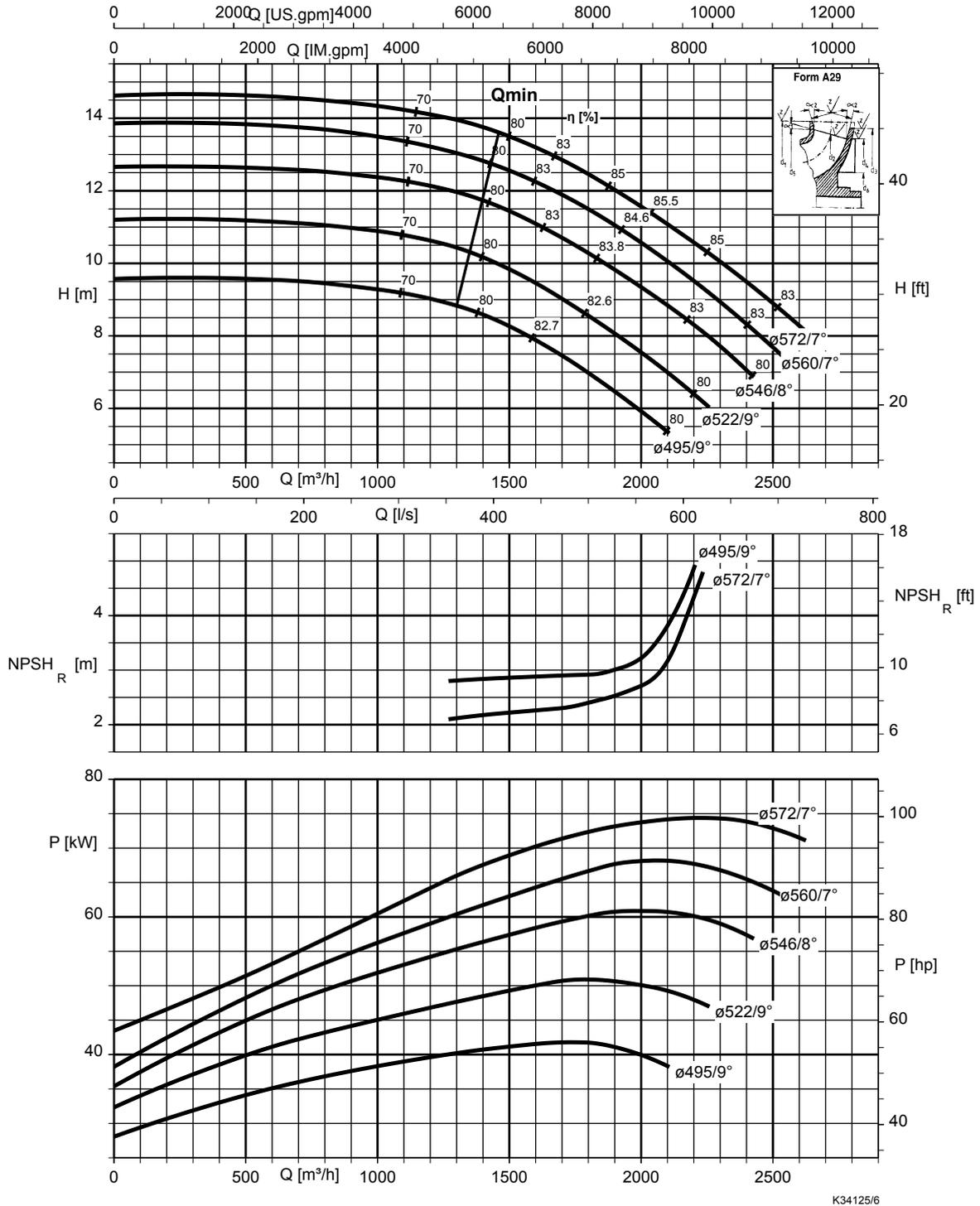
K2361.4510/669/4

KWP K 500-400-713, n = 580 rpm

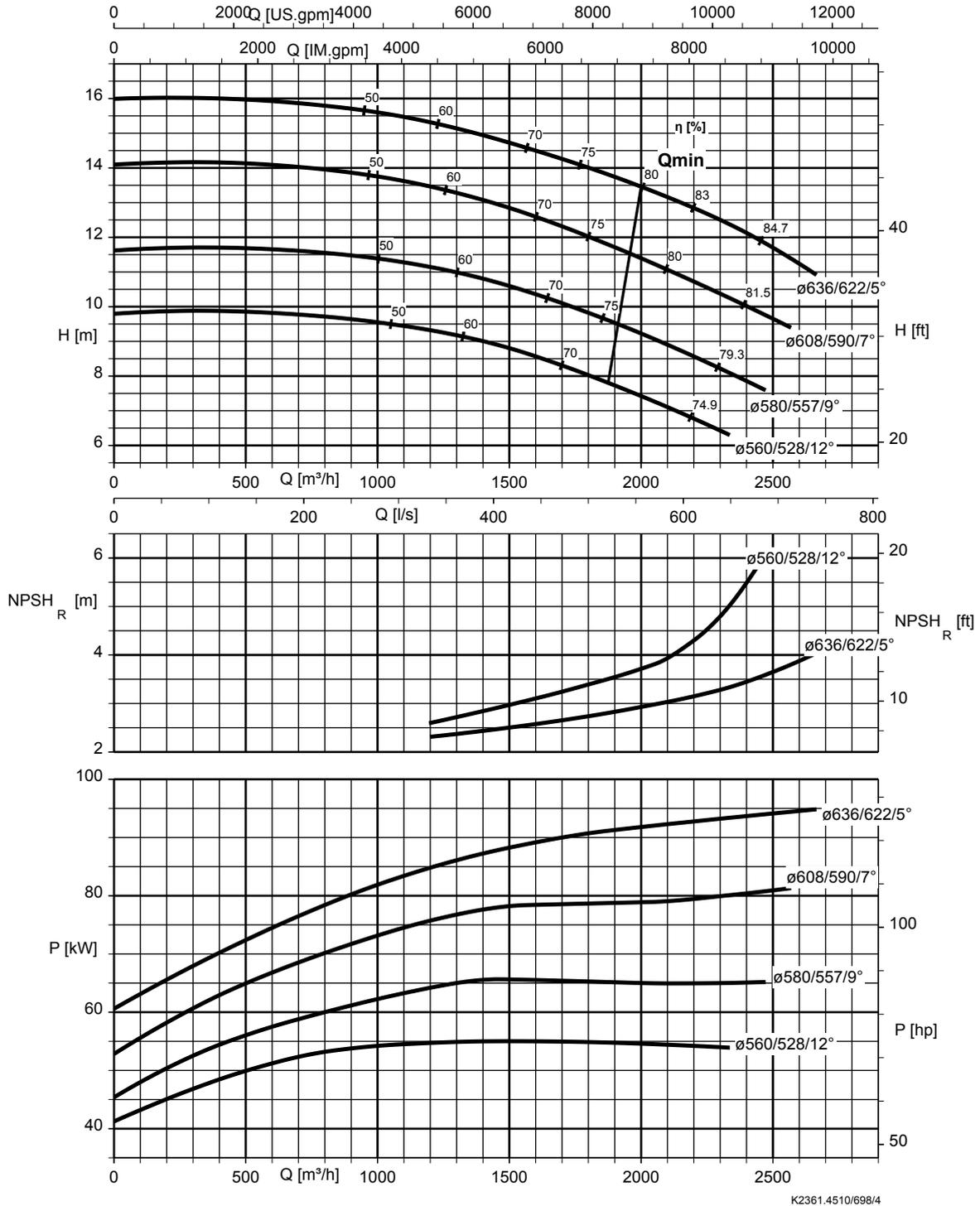


K34122/2

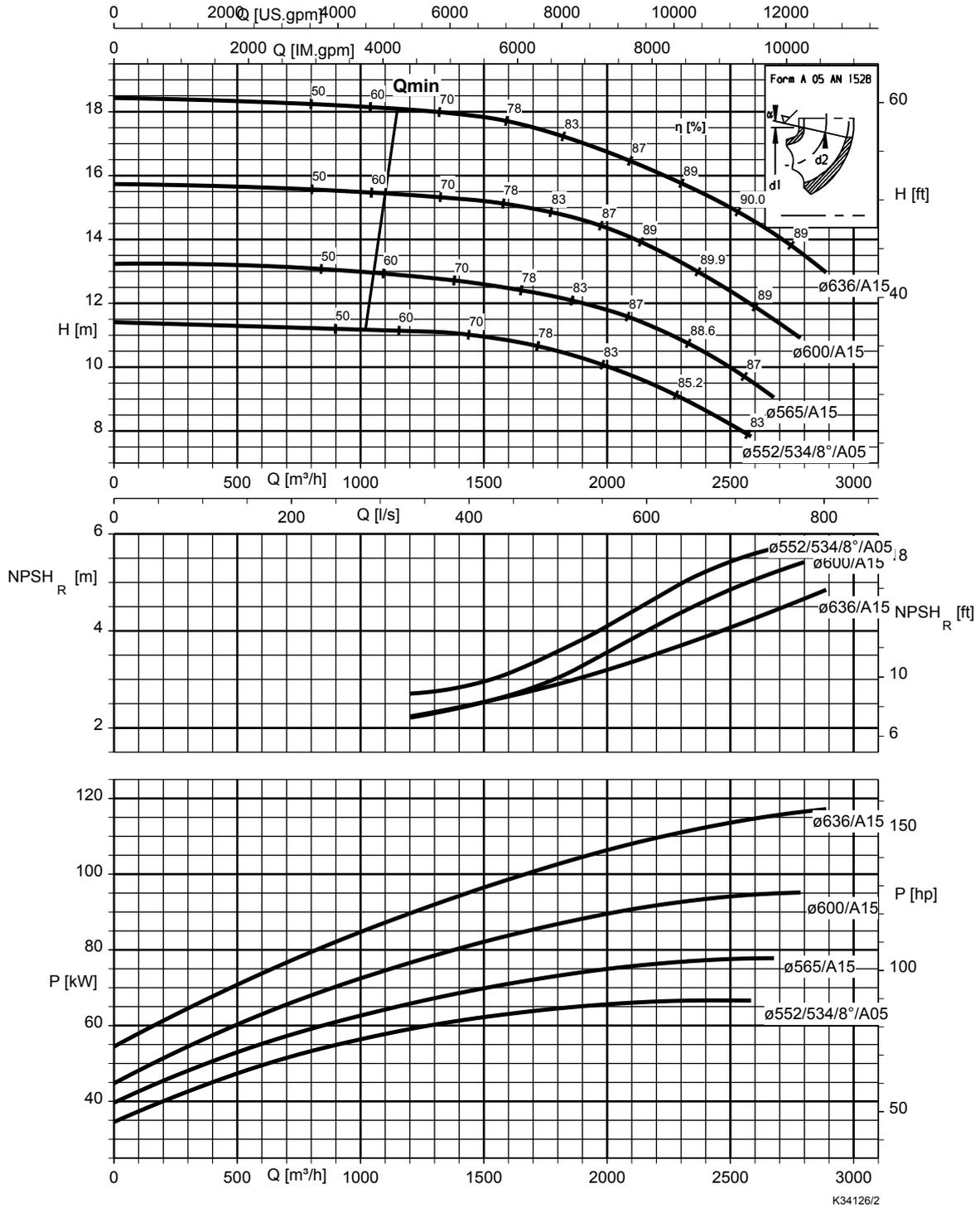
KWP K 500-500-544, n = 580 rpm



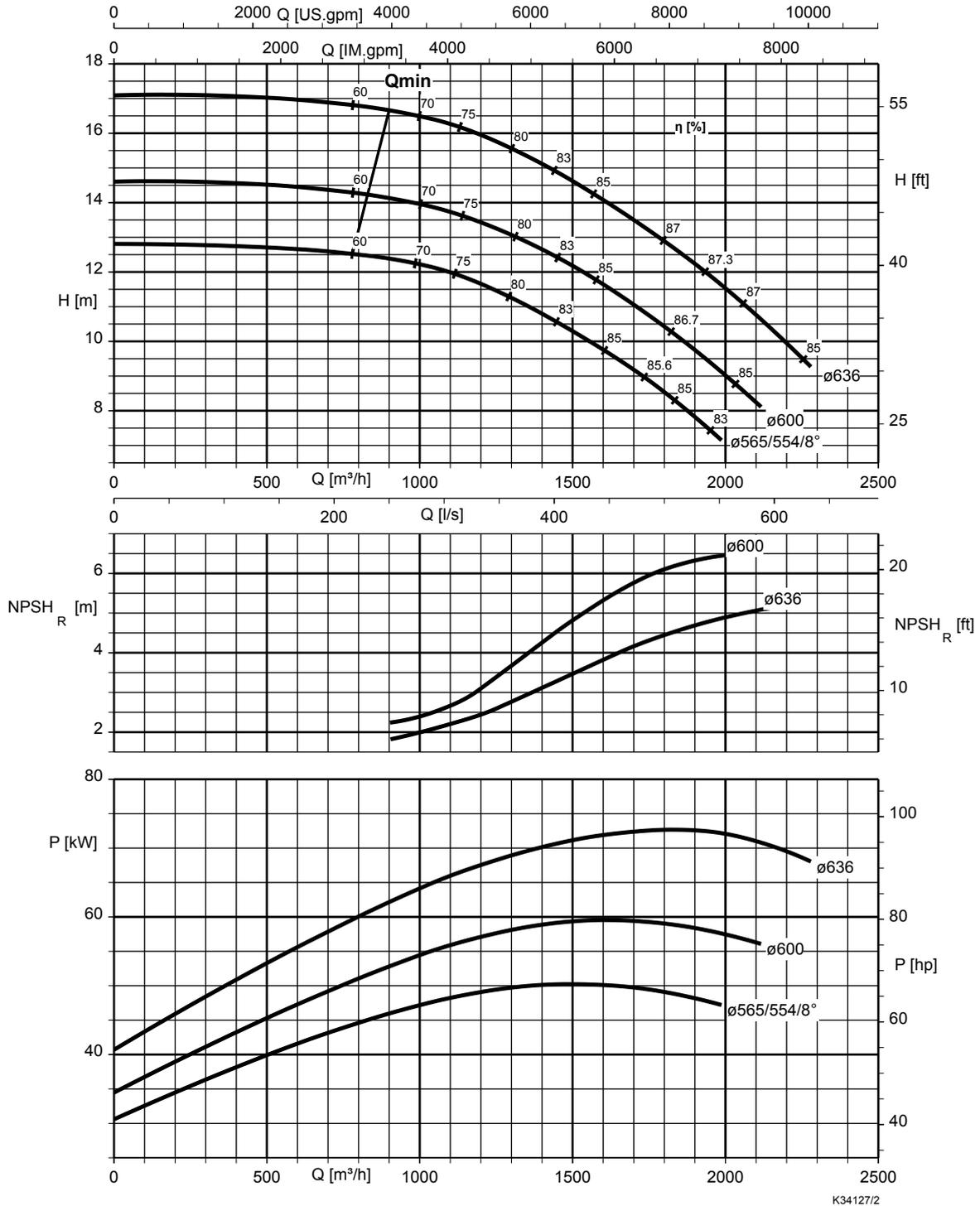
KWP K 500-500-630, n = 580 rpm



KWP K 500-500-633, n = 580 rpm

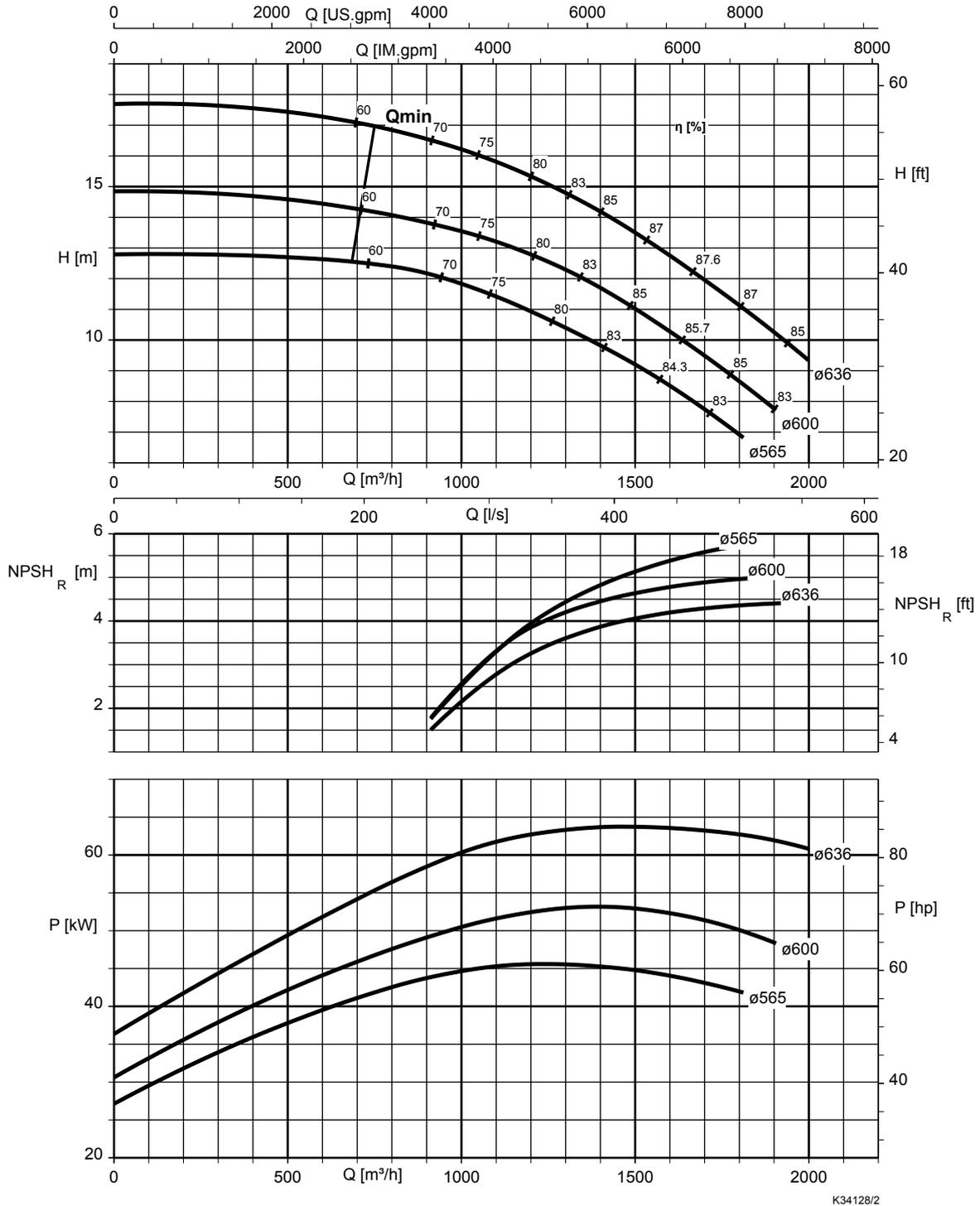


KWP K 500-500-634, n = 580 rpm



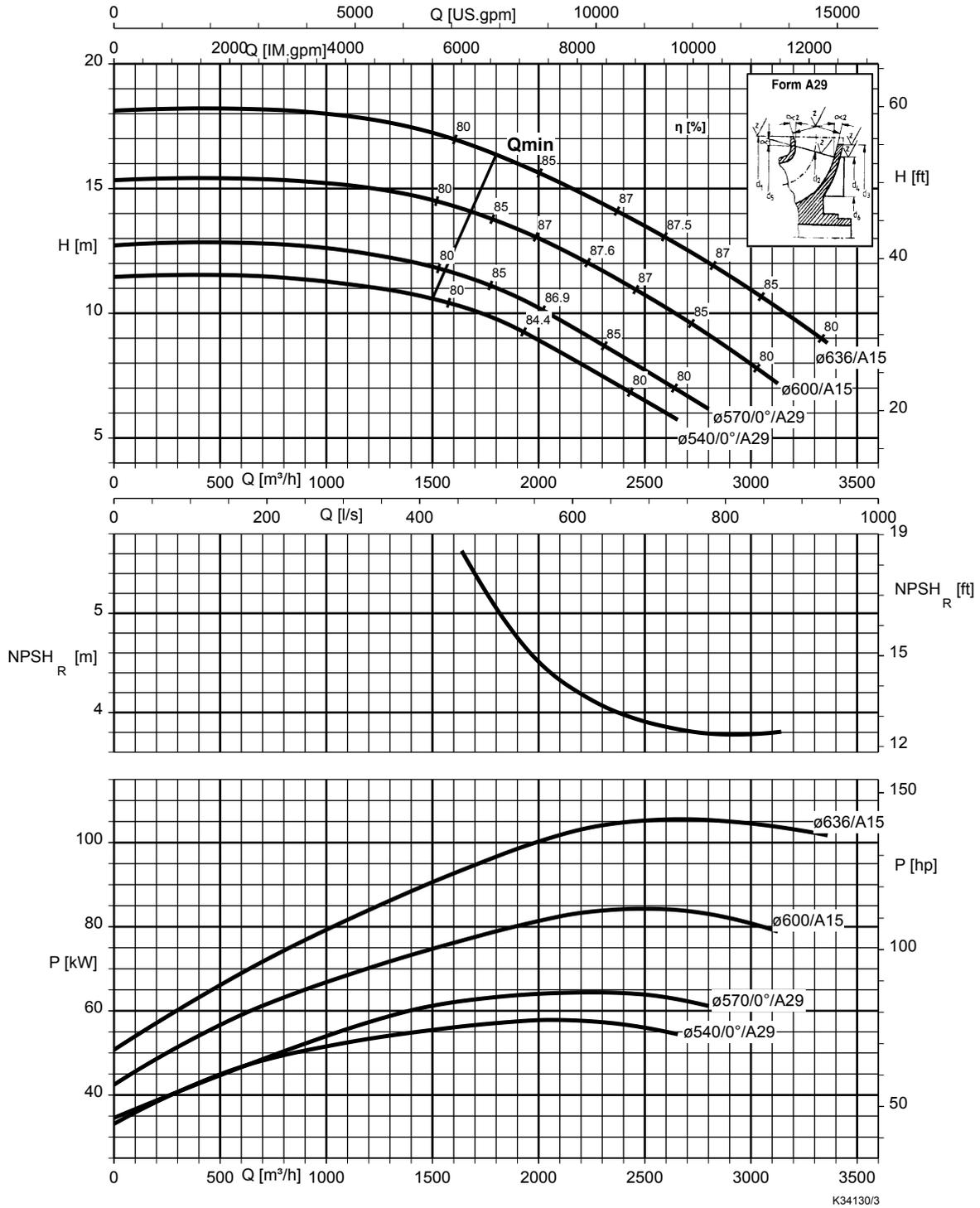
K34127/2

KWP K 500-500-635, n = 580 rpm

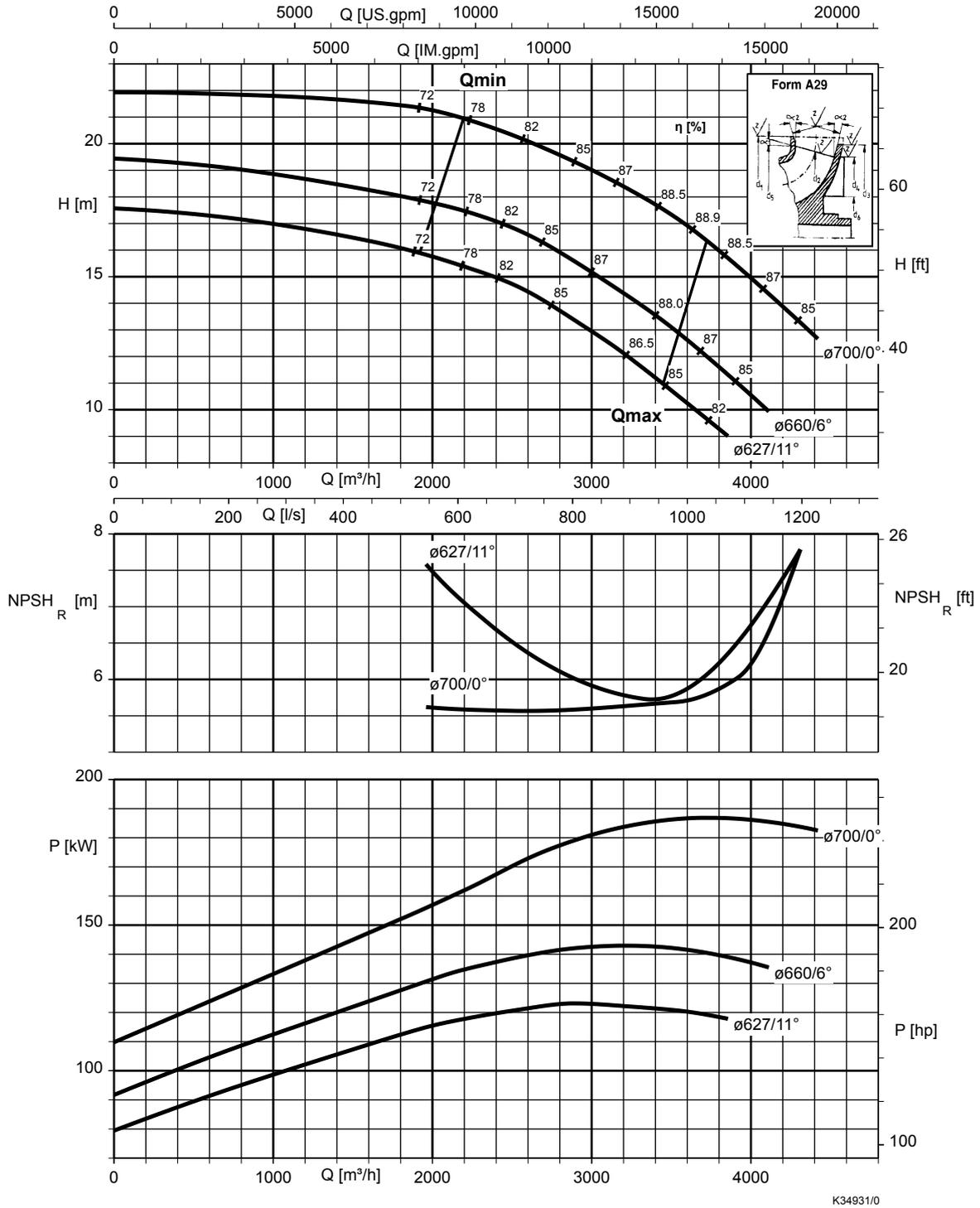


K34128/2

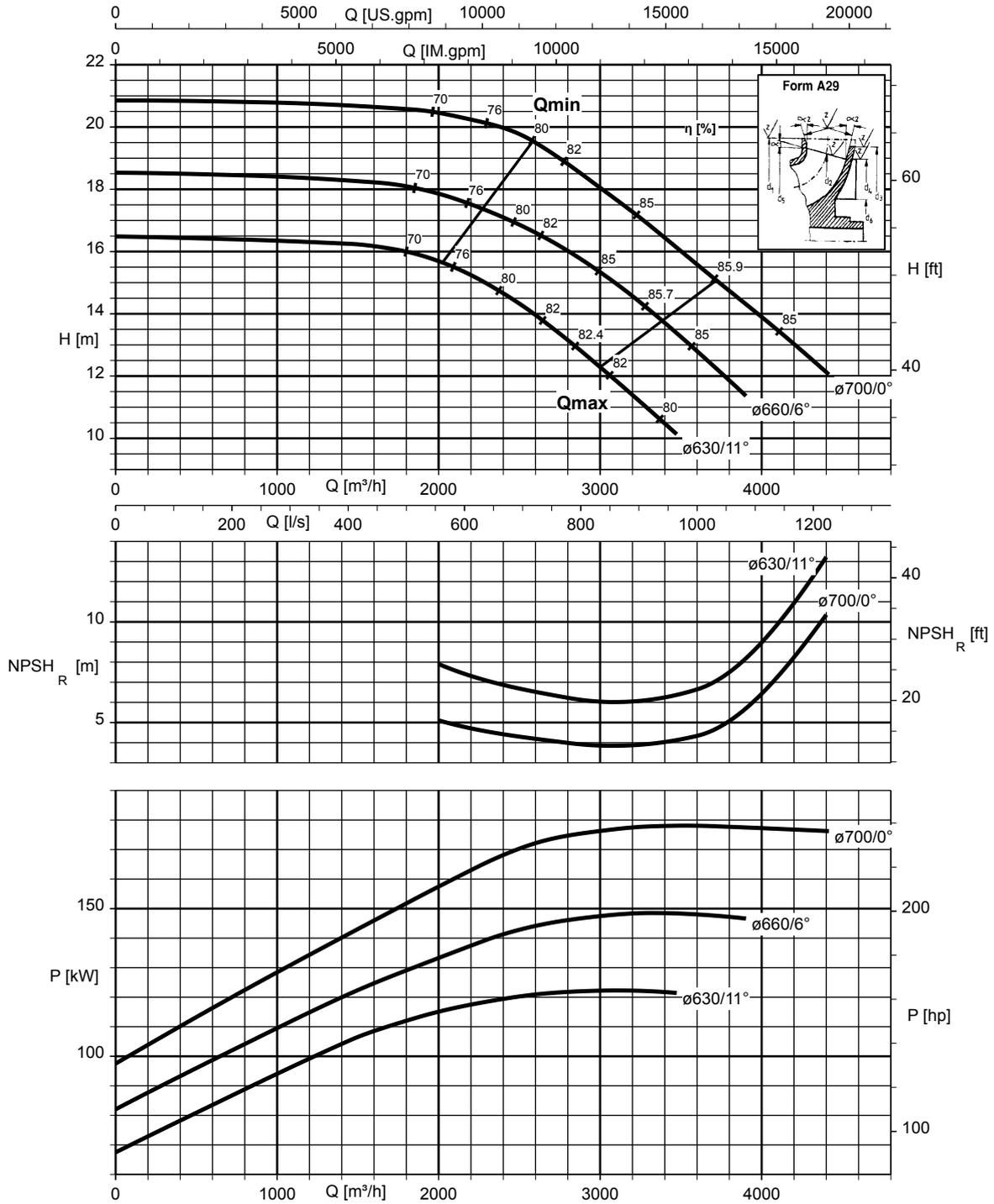
KWP K 500-500-637, n = 580 rpm



KWP K 600-600-663, n = 580 rpm

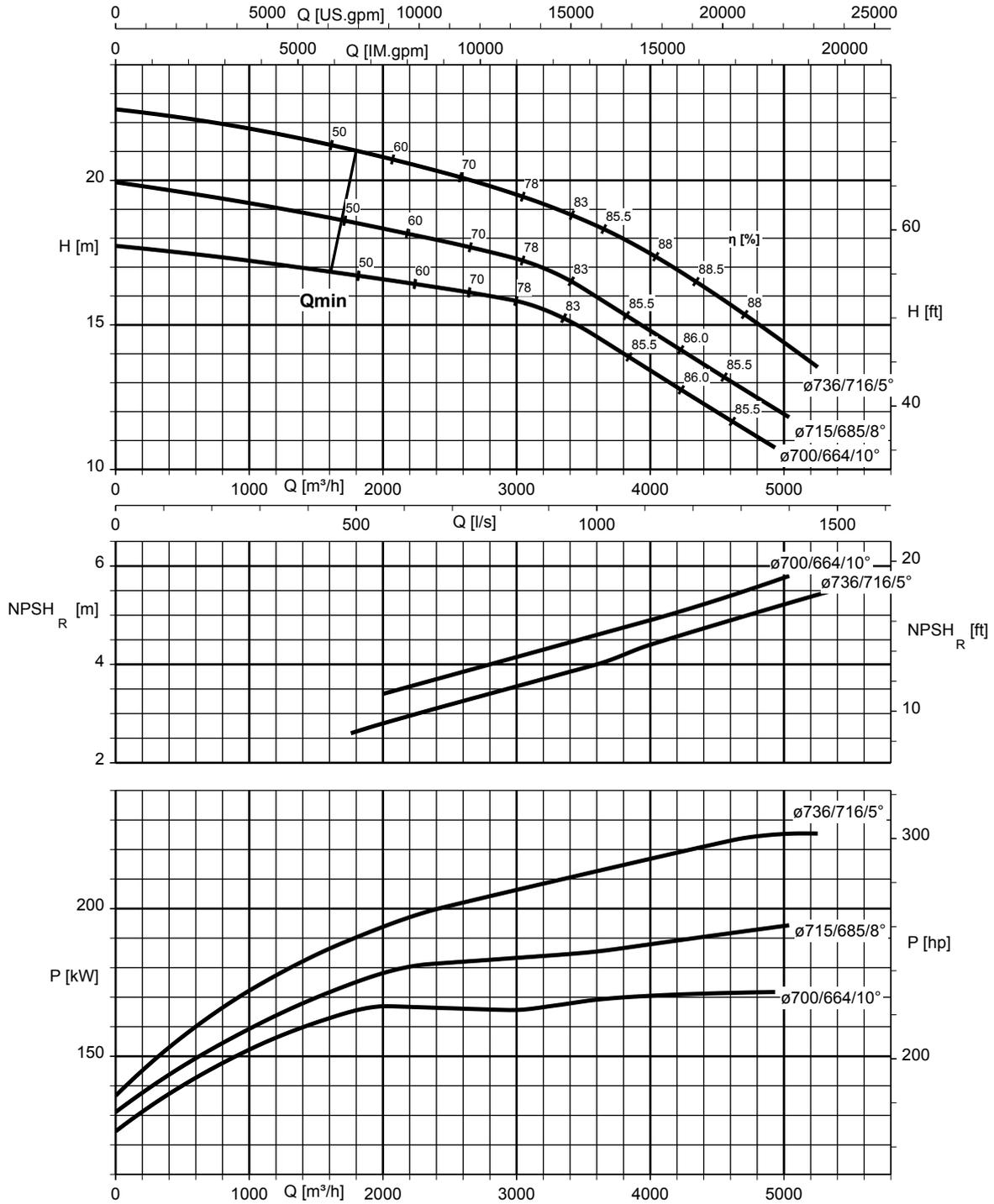


KWP K 600-600-669, n = 580 rpm

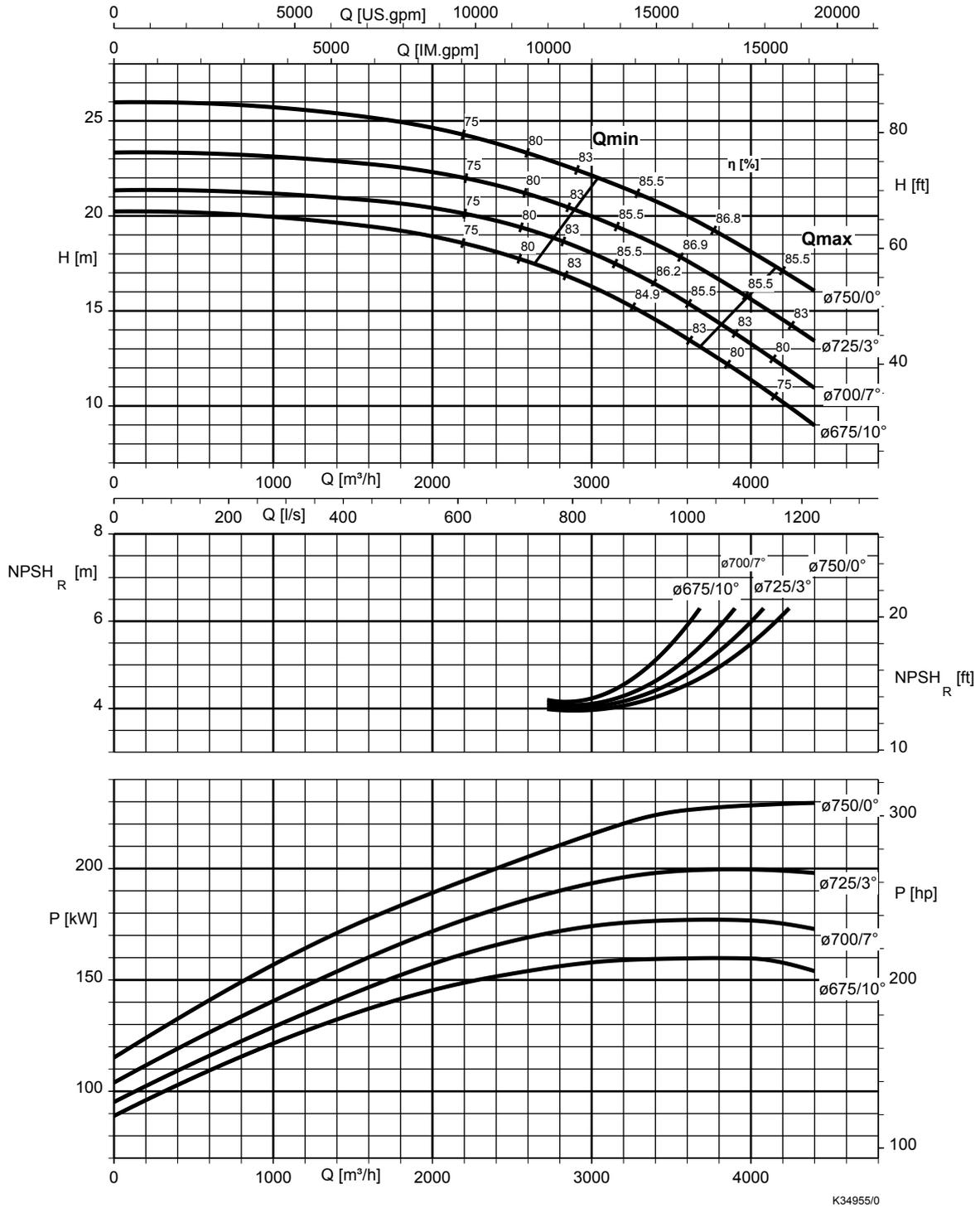


K34934/0

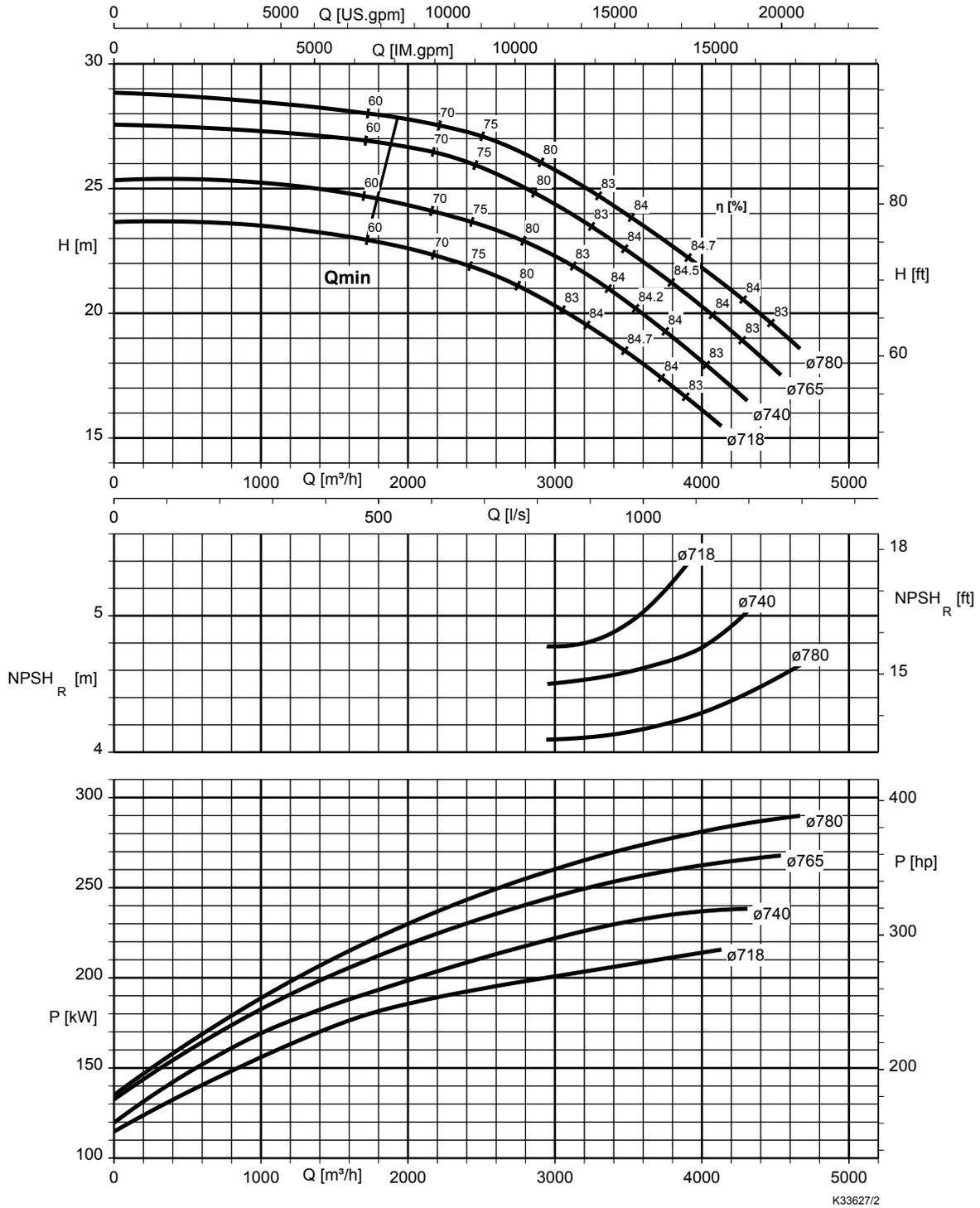
KWP K 600-600-710, n = 580 rpm



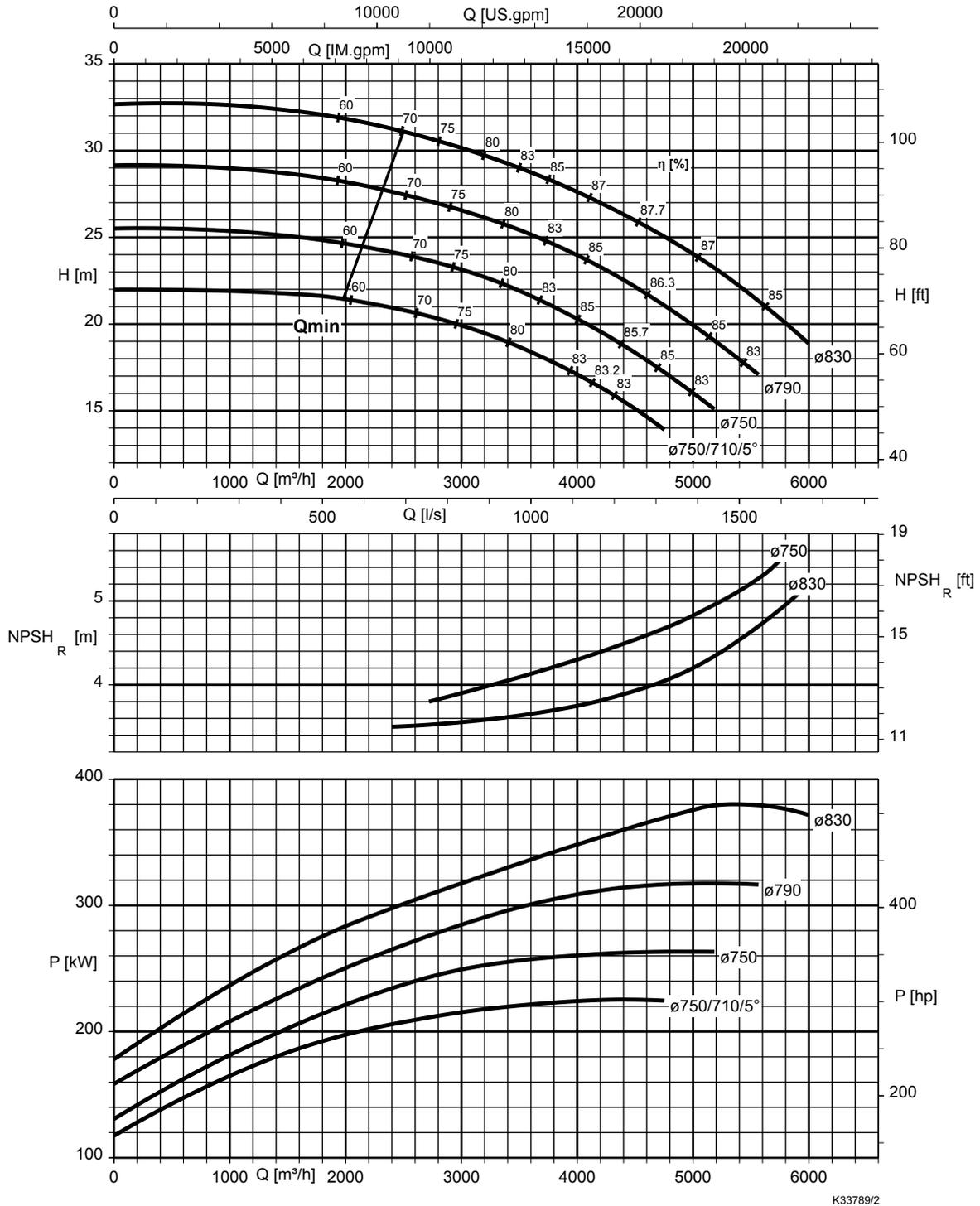
KWP K 600-600-753, n = 580 rpm



KWP K 600-600-803, n = 580 rpm

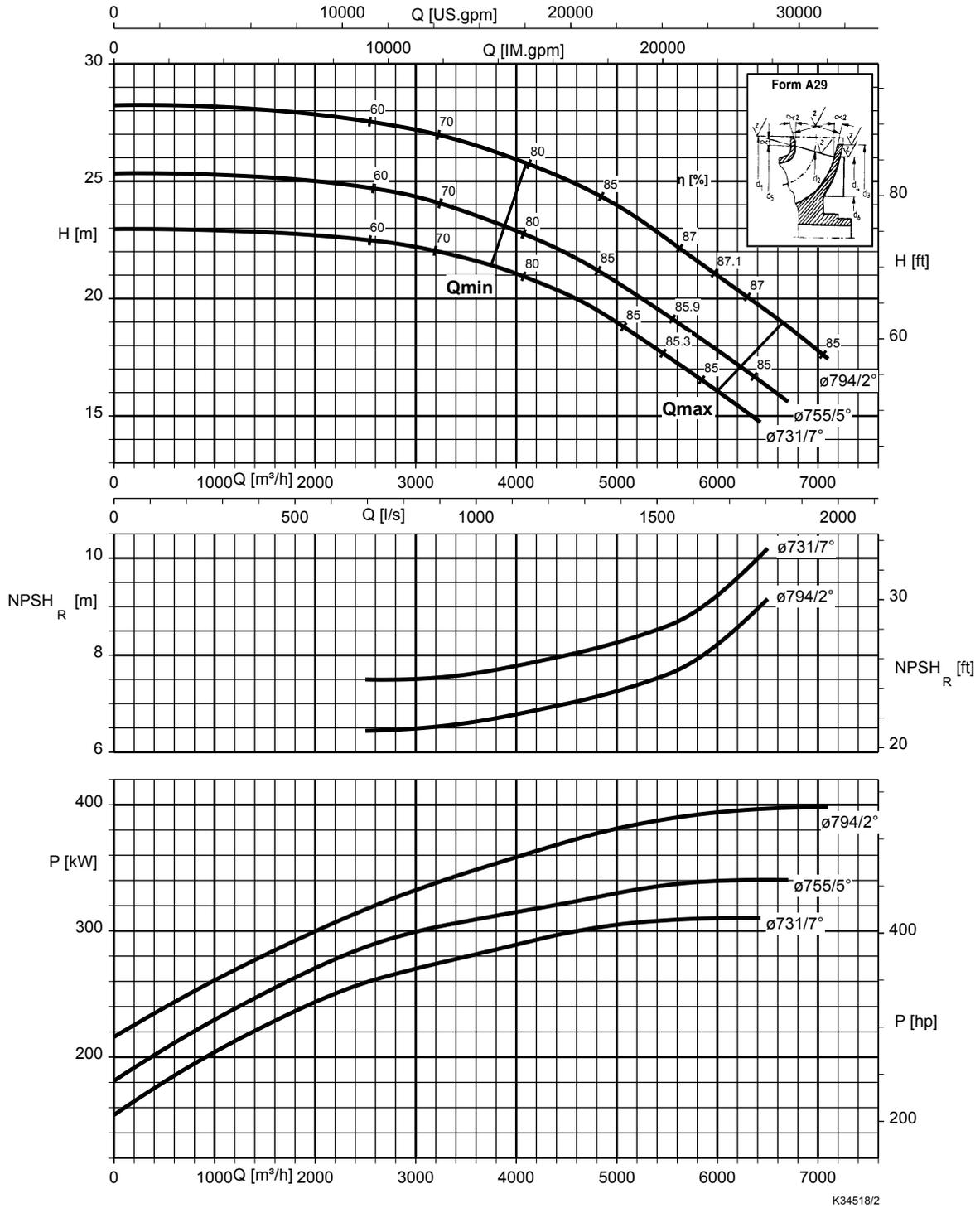


KWP K 600-600-813, n = 580 rpm

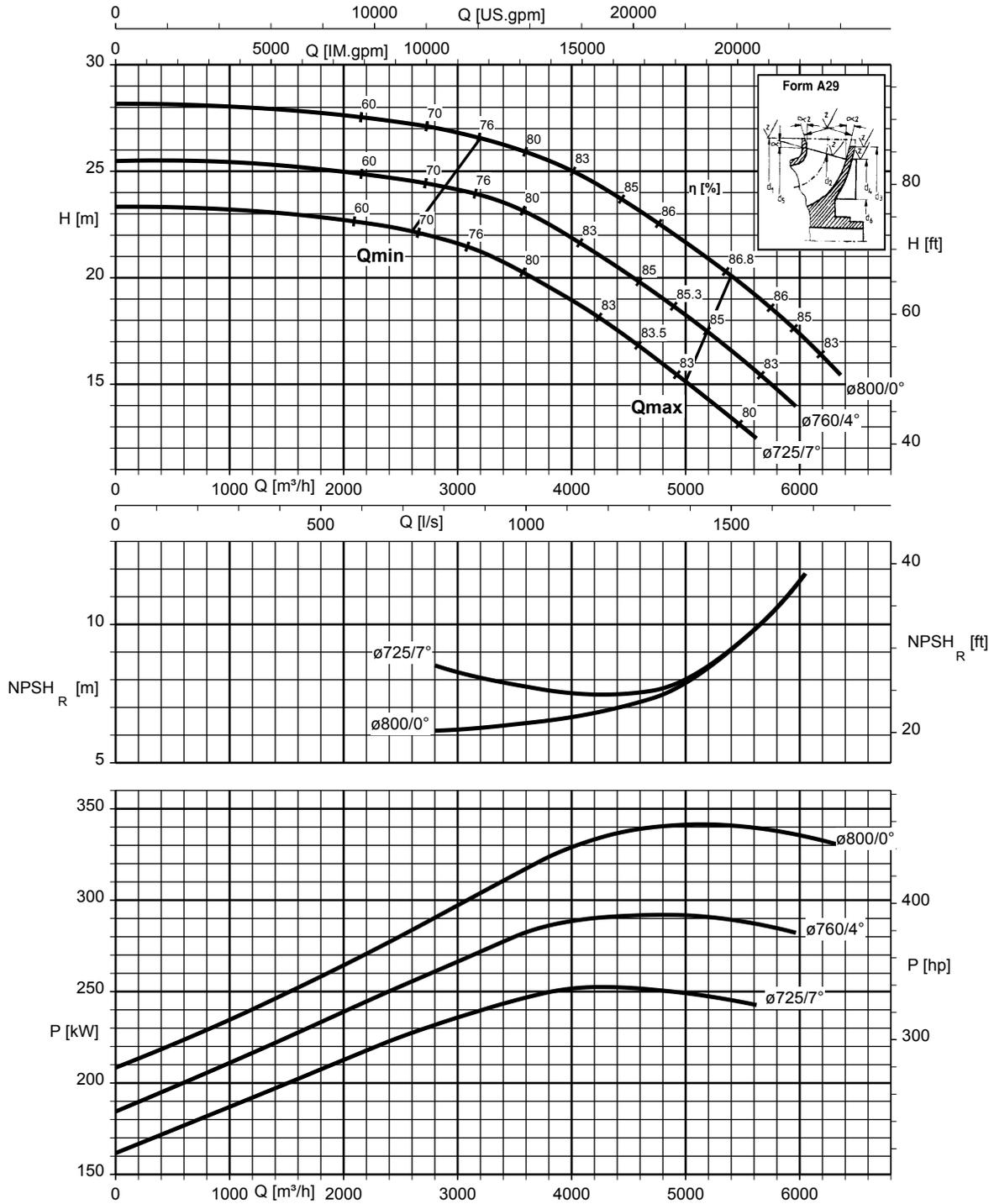


K33789/2

KWP K 600-600-824, n = 580 rpm

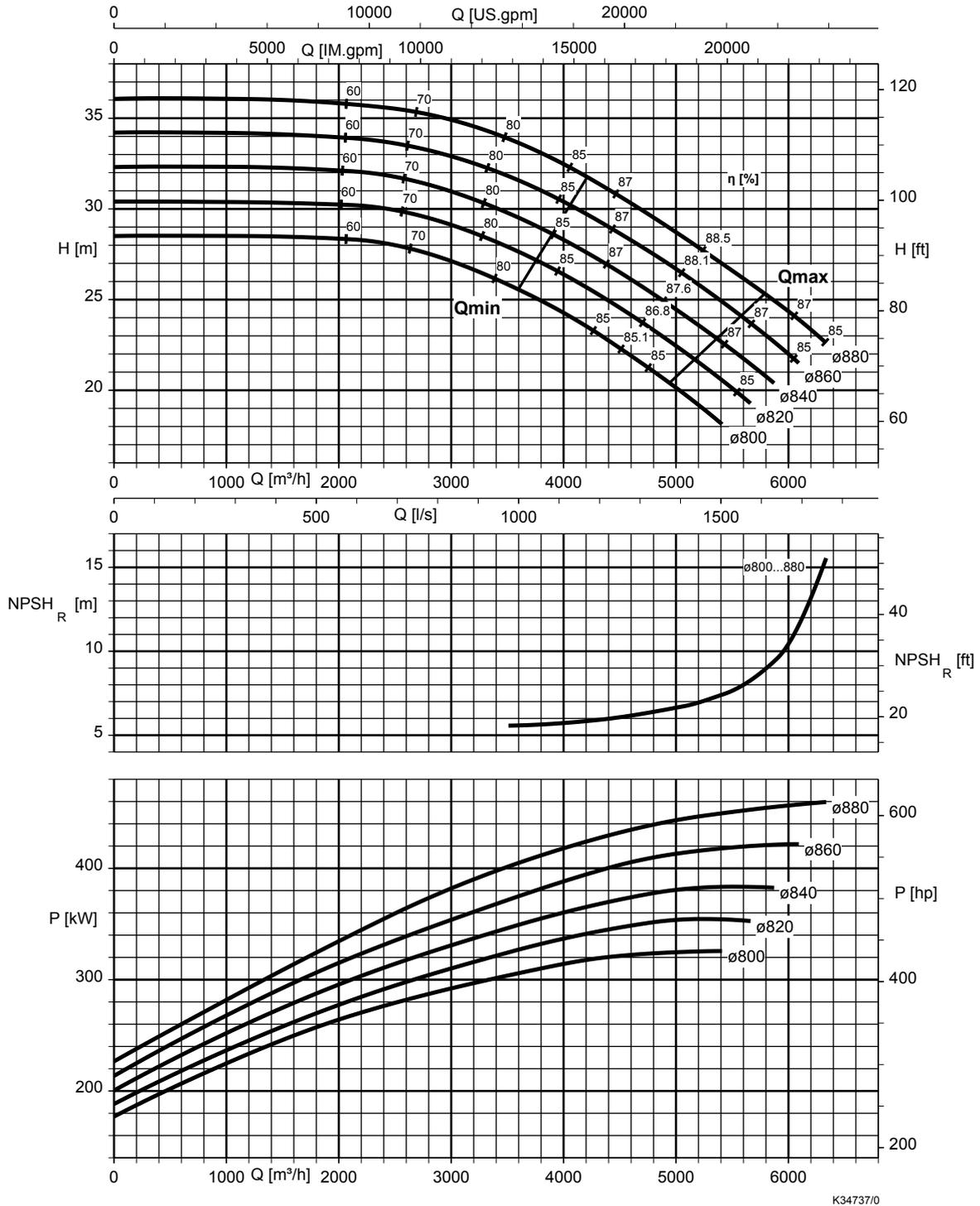


KWP K 600-600-825, n = 580 rpm



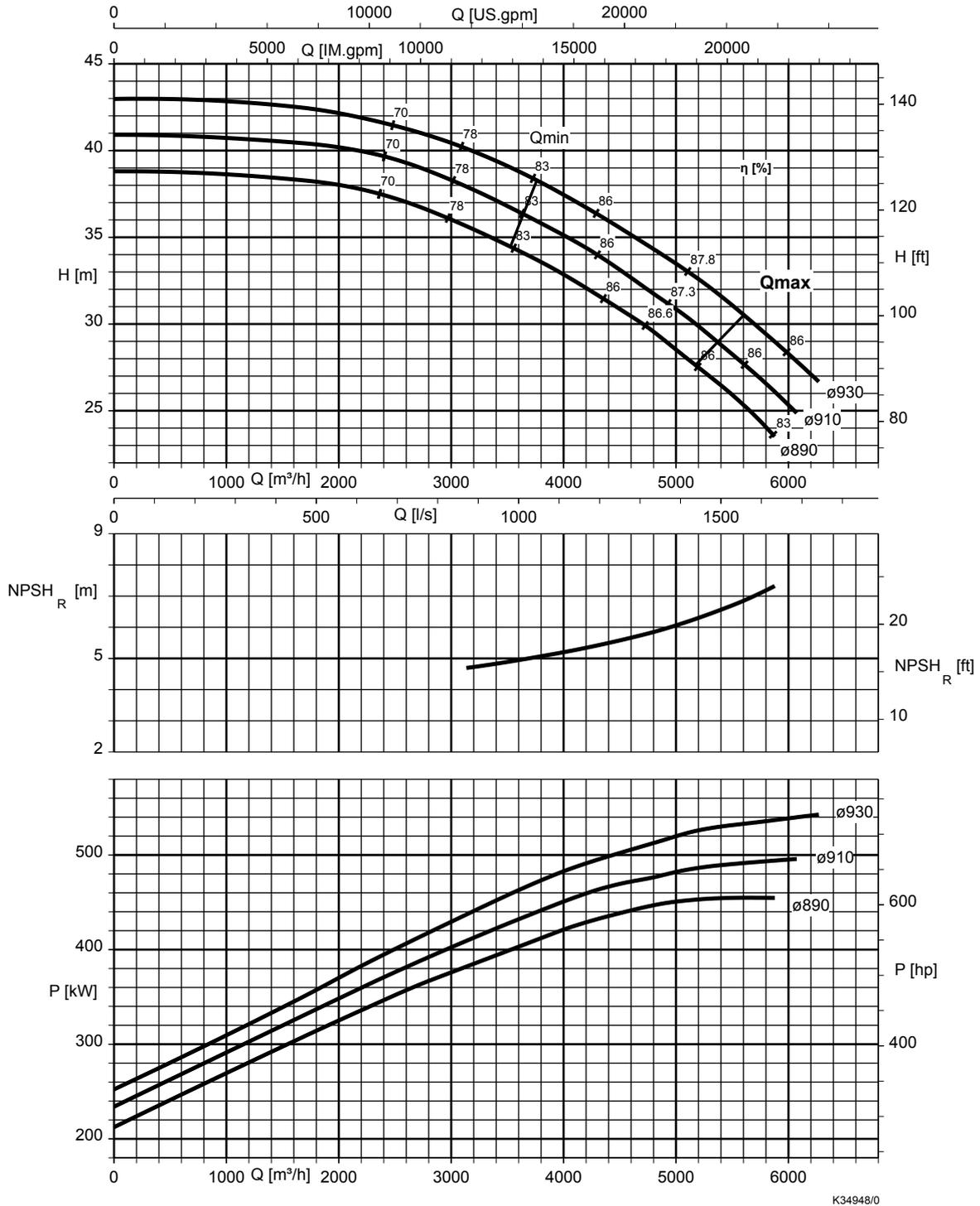
K34736/1

KWP K 600-600-873, n = 580 rpm



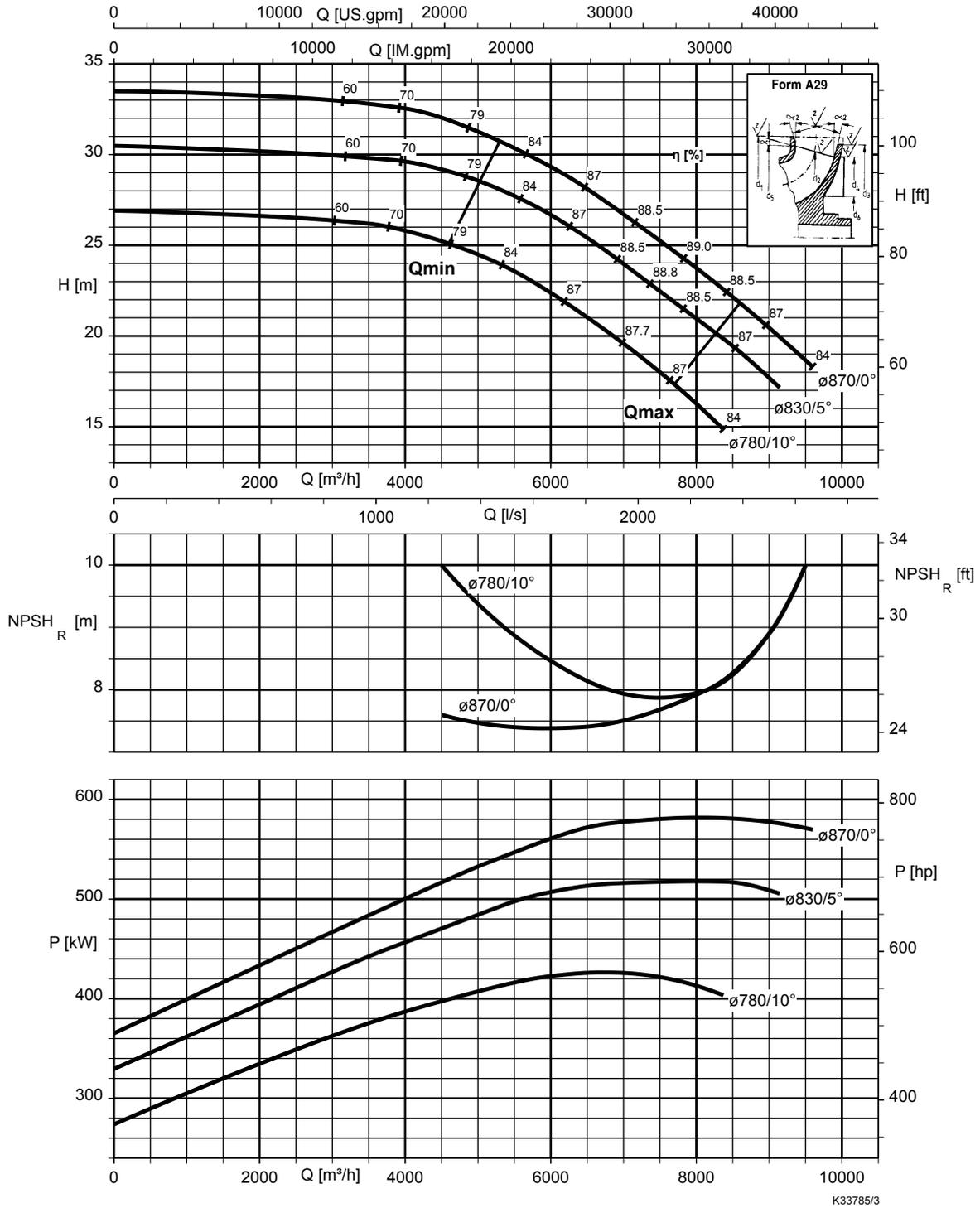
K34737/0

KWP K 600-600-923, n = 580 rpm

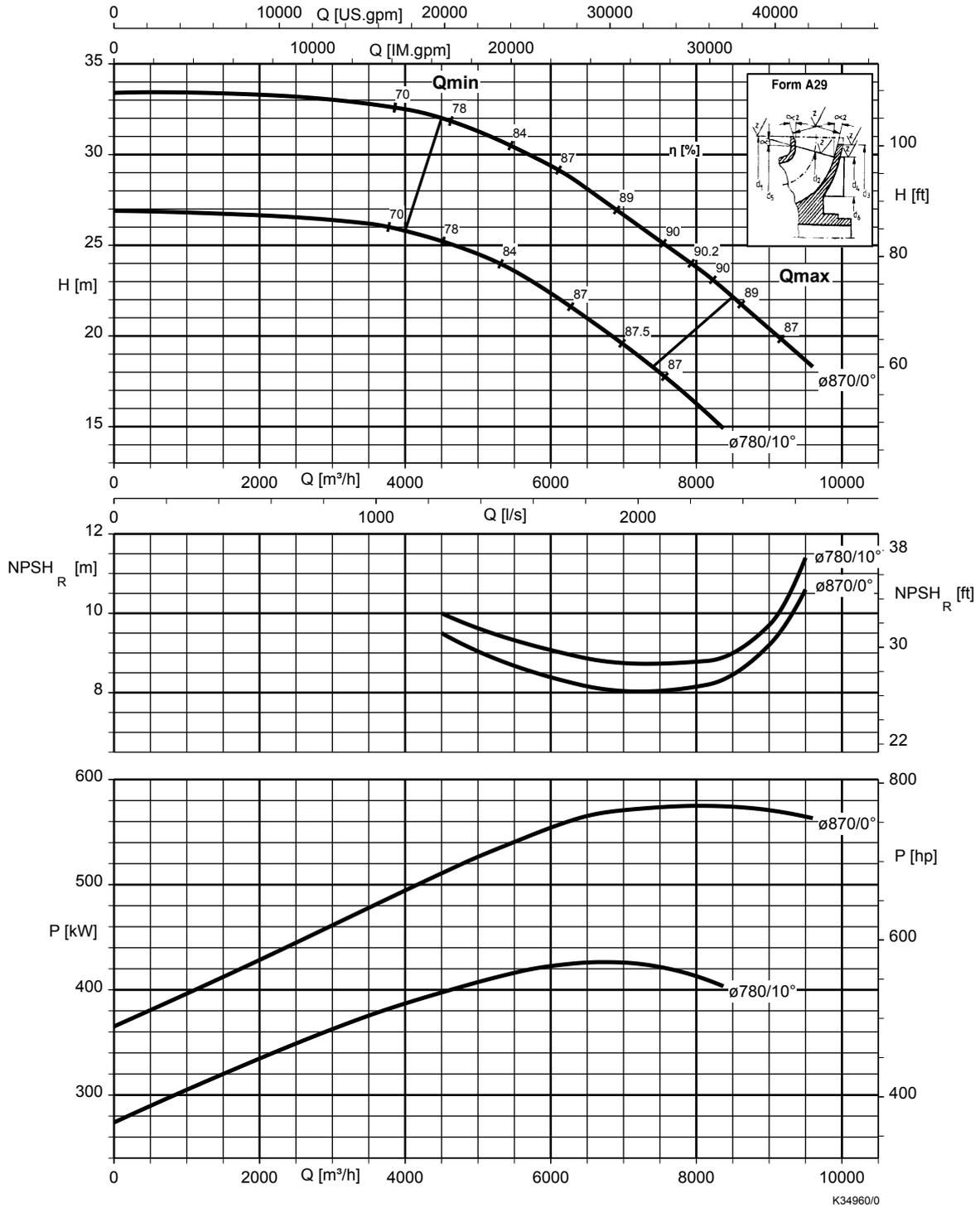


K34948/0

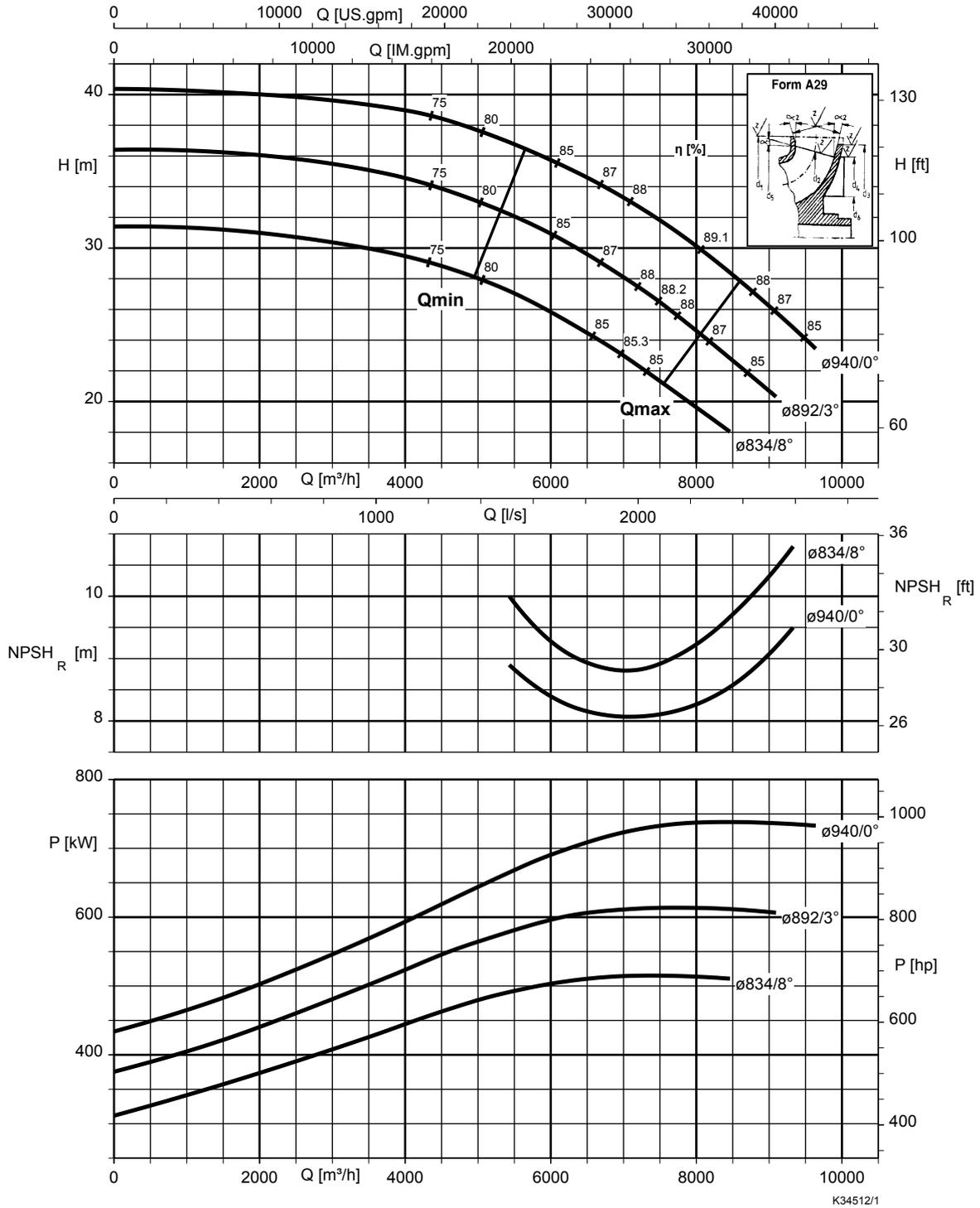
KWP K 700-700-923, n = 580 rpm



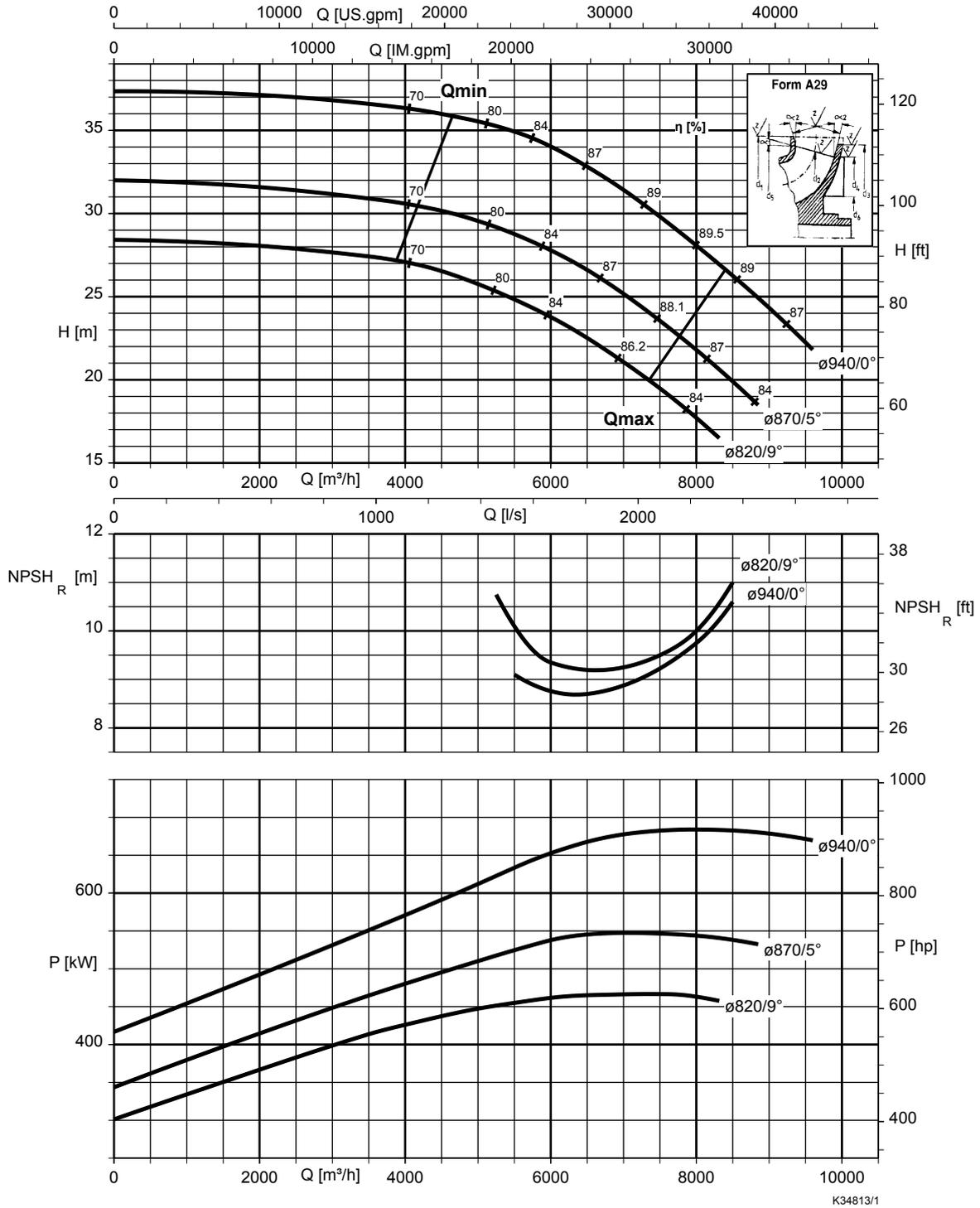
KWP K 700-700-929, n = 580 rpm



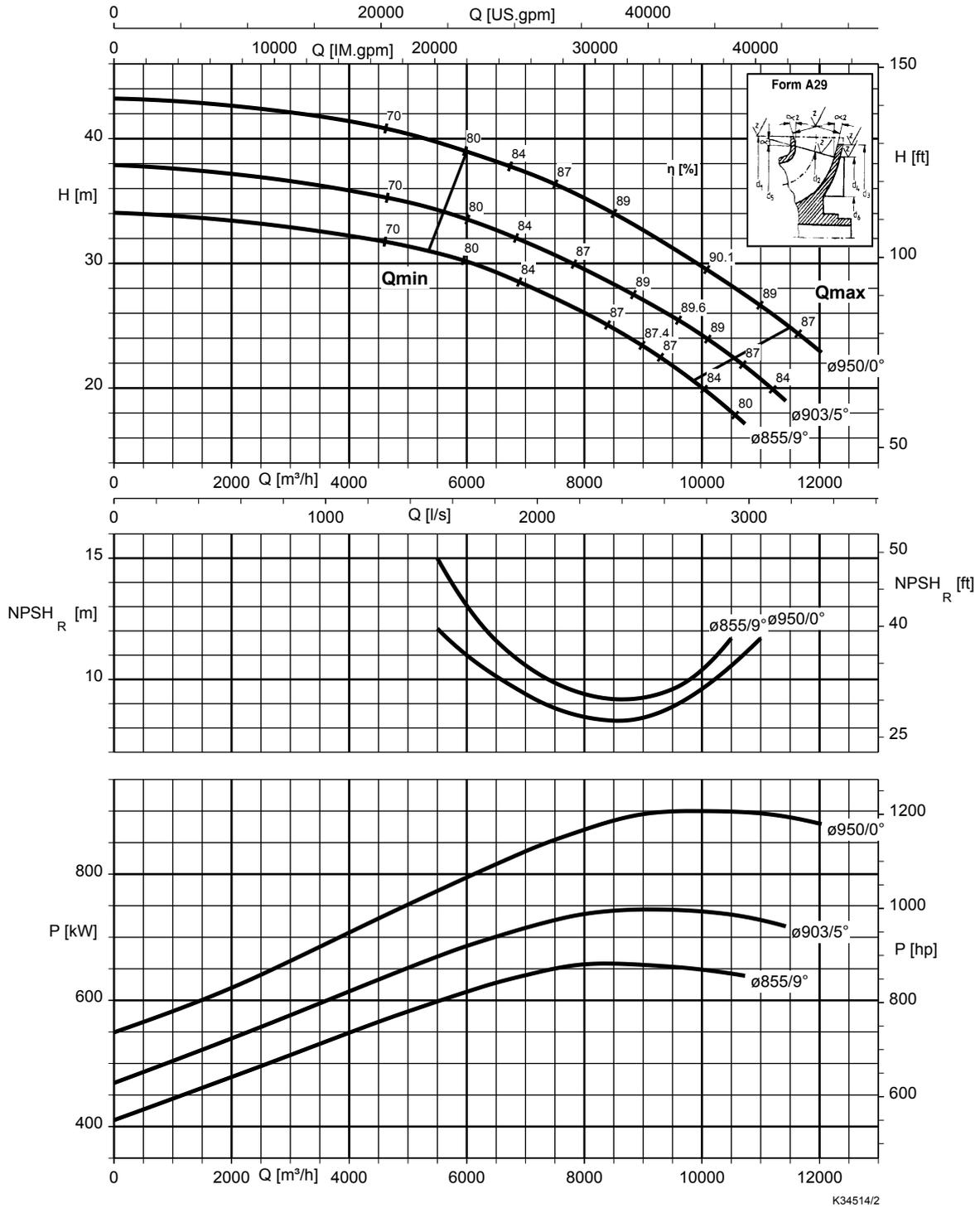
KWP K 800-700-953, n = 580 rpm



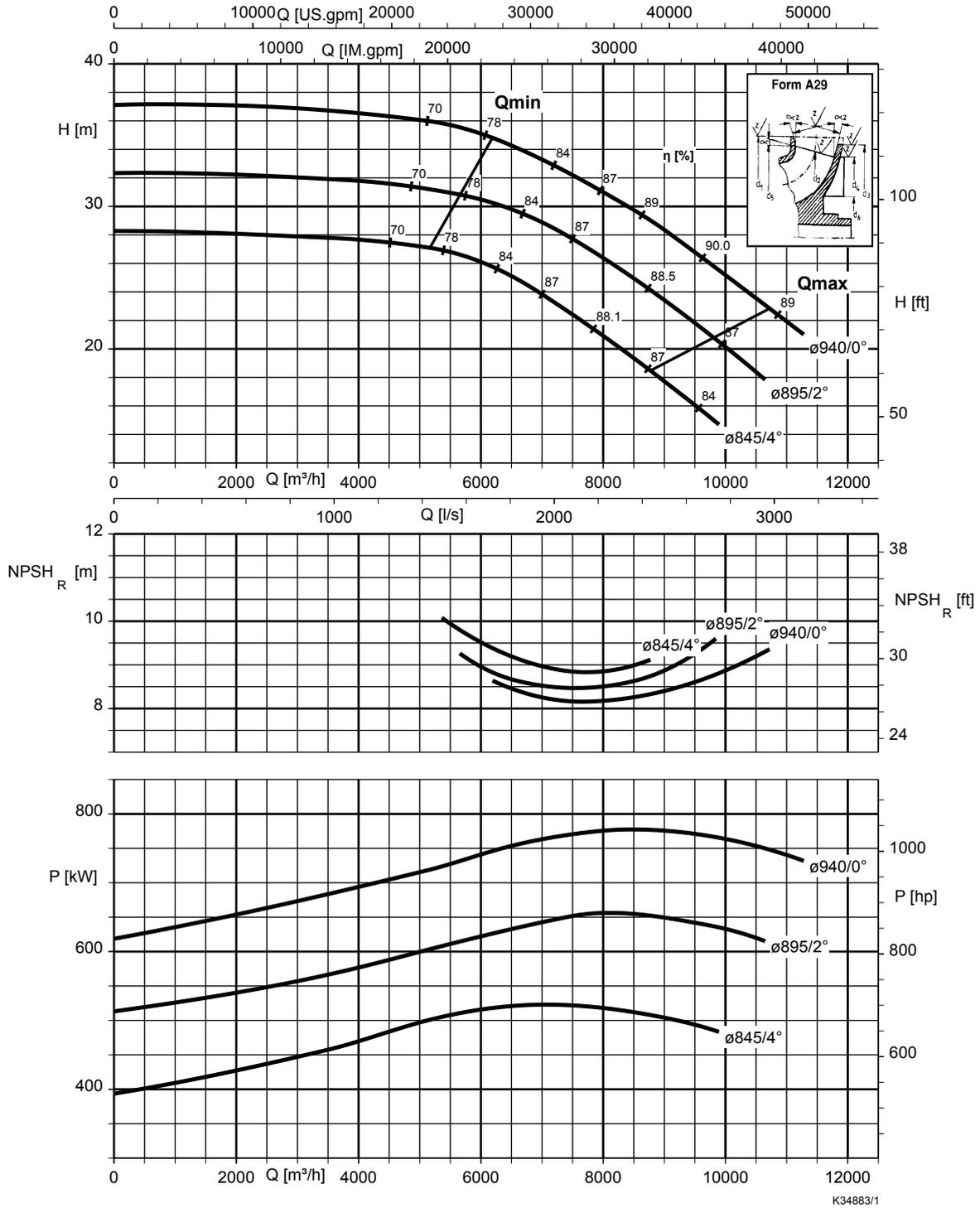
KWP K 800-700-959, n = 580 rpm



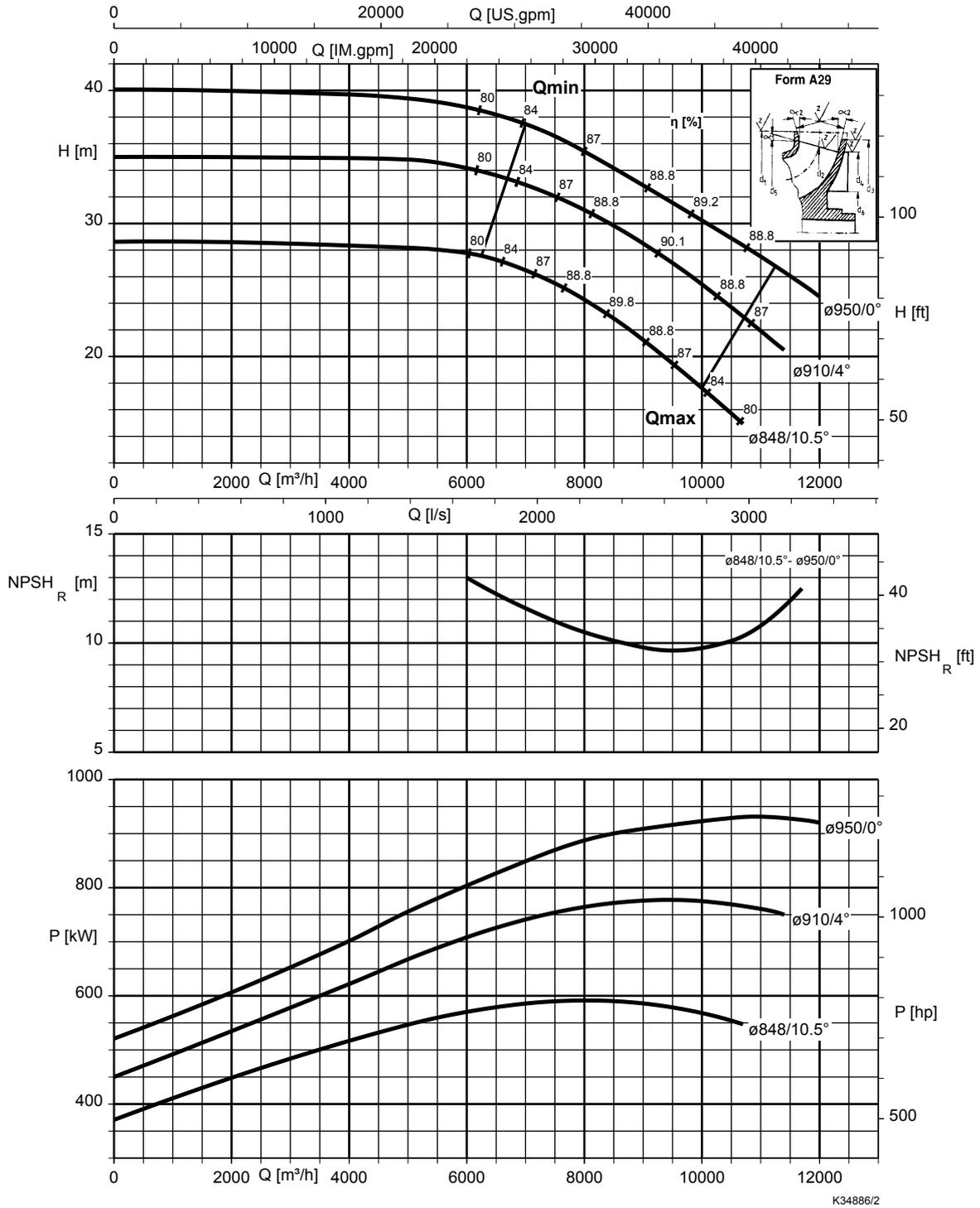
KWP K 800-800-934, n = 580 rpm



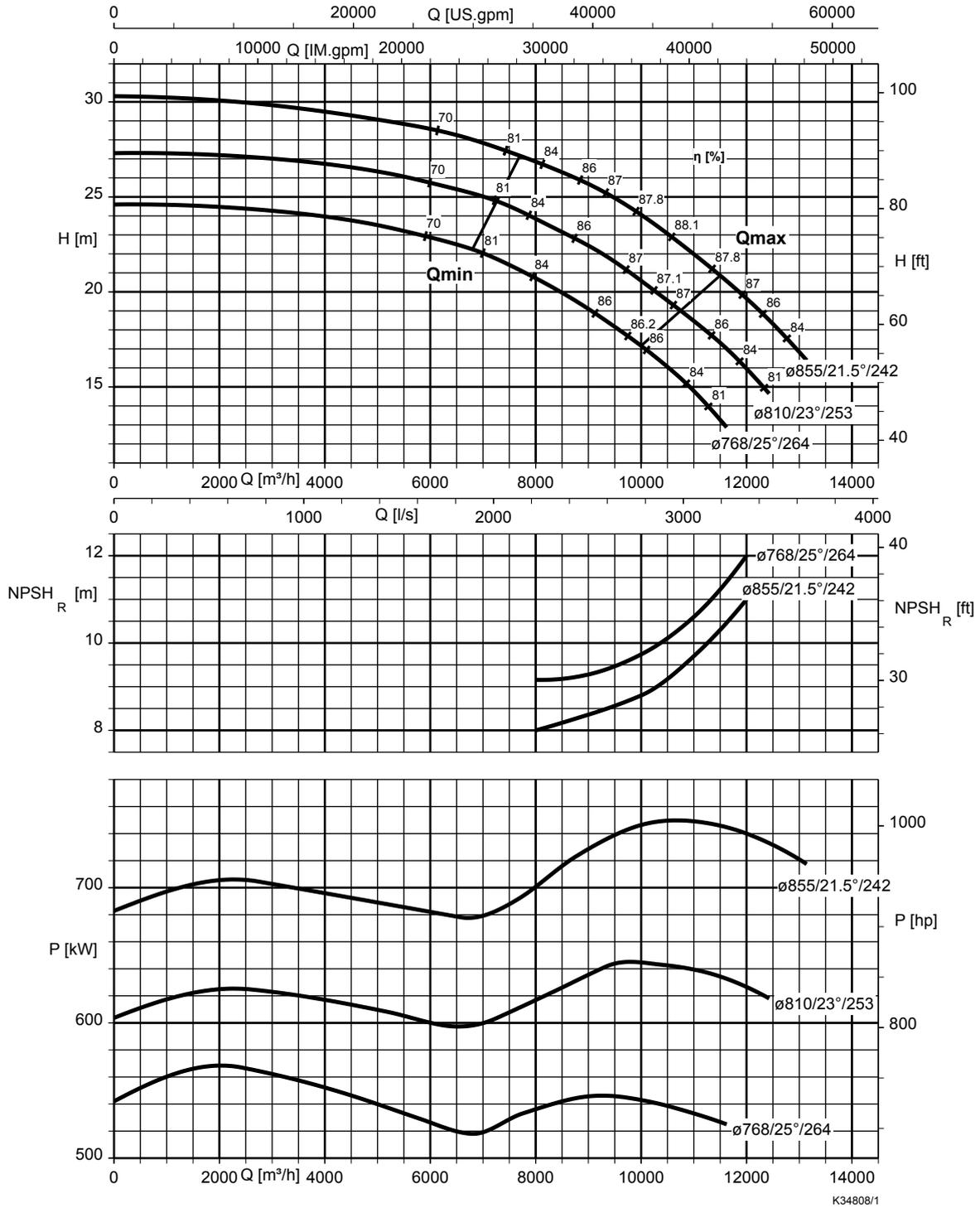
KWP K 800-800-935, n = 580 rpm



KWP K 800-800-939, n = 580 rpm

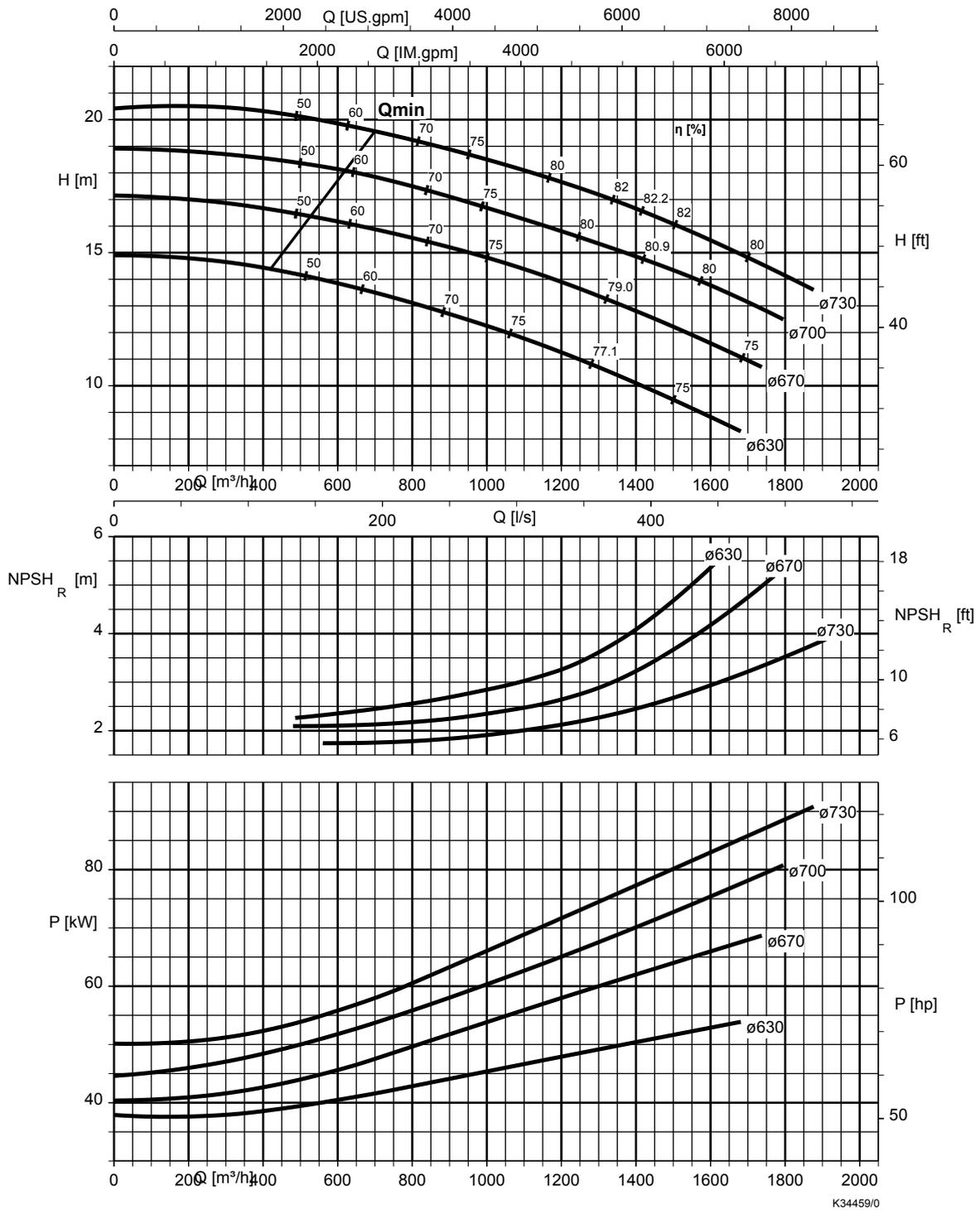


KWP K 800-900-883, n = 580 rpm

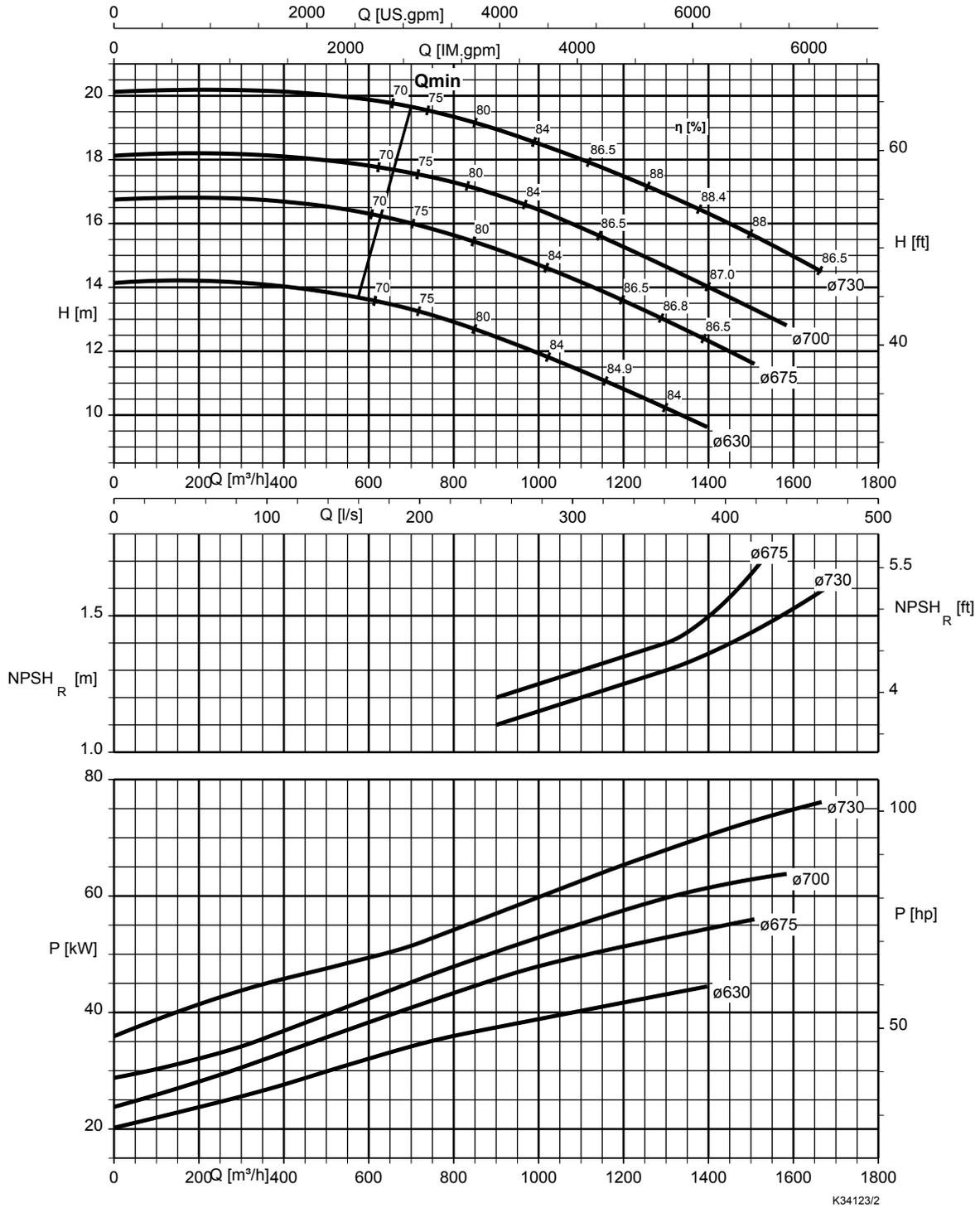


n = 480 rpm

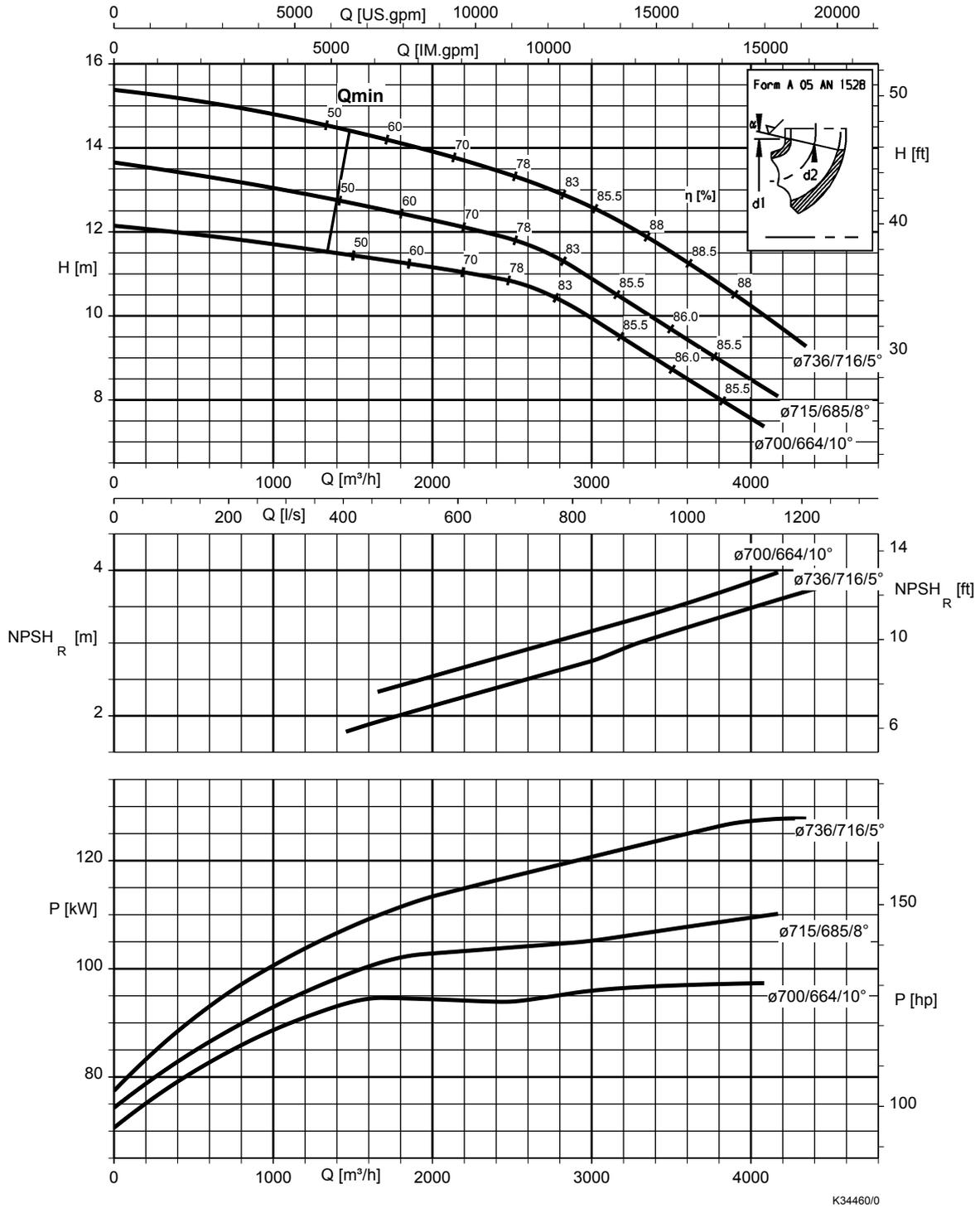
KWP K 500-400-710, n = 480 rpm



KWP K 500-400-713, n = 480 rpm

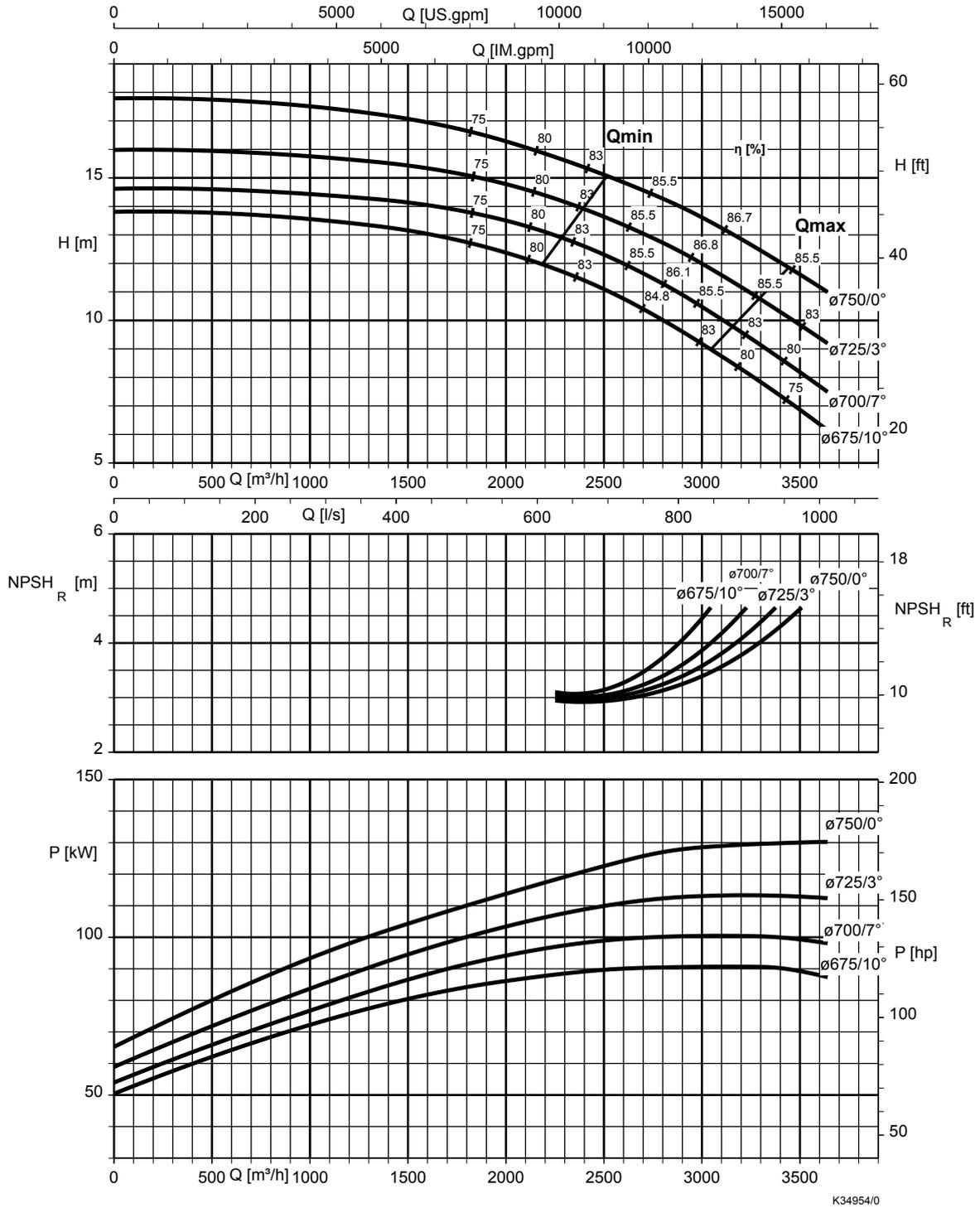


KWP K 600-600-710, n = 480 rpm

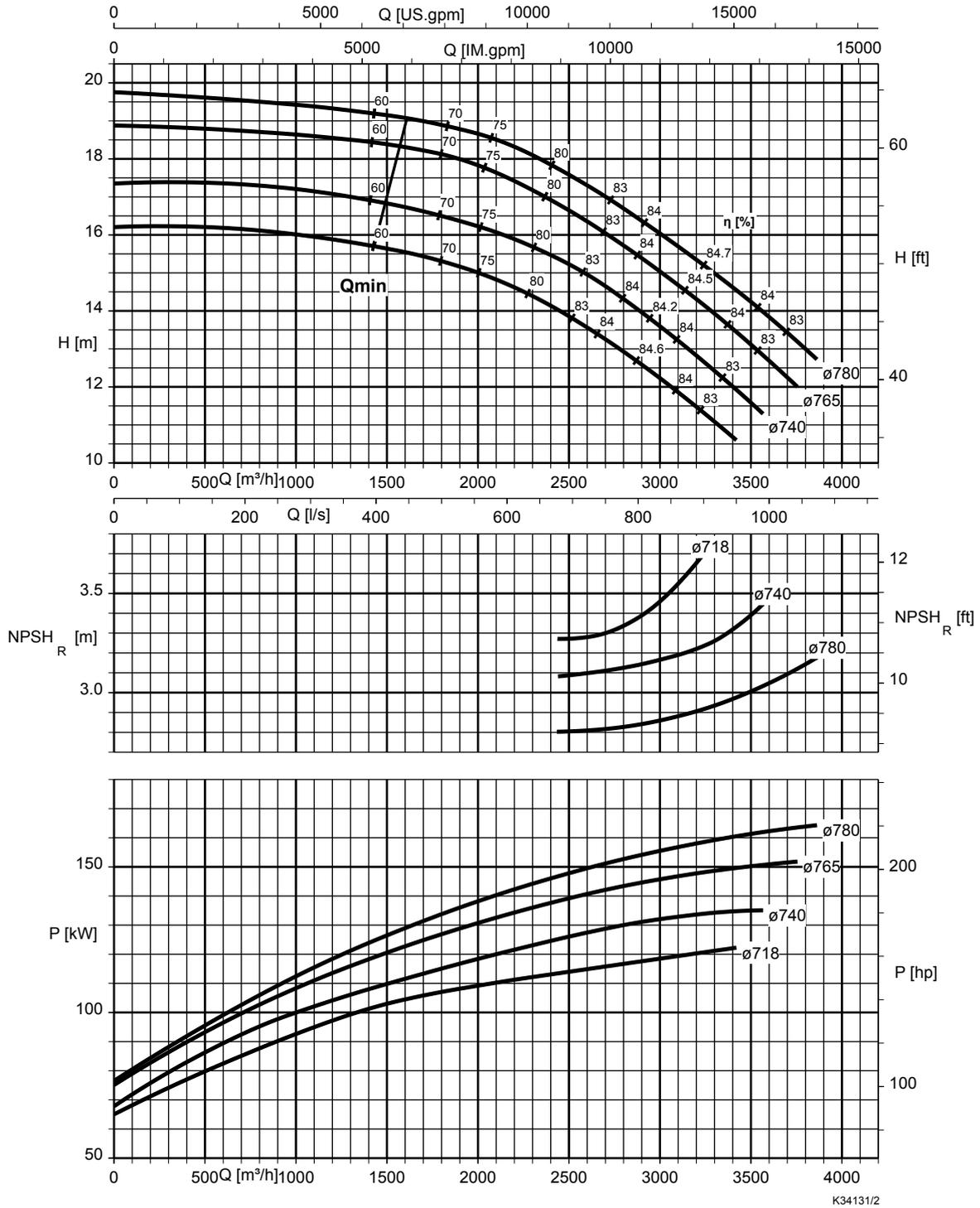


K34460/0

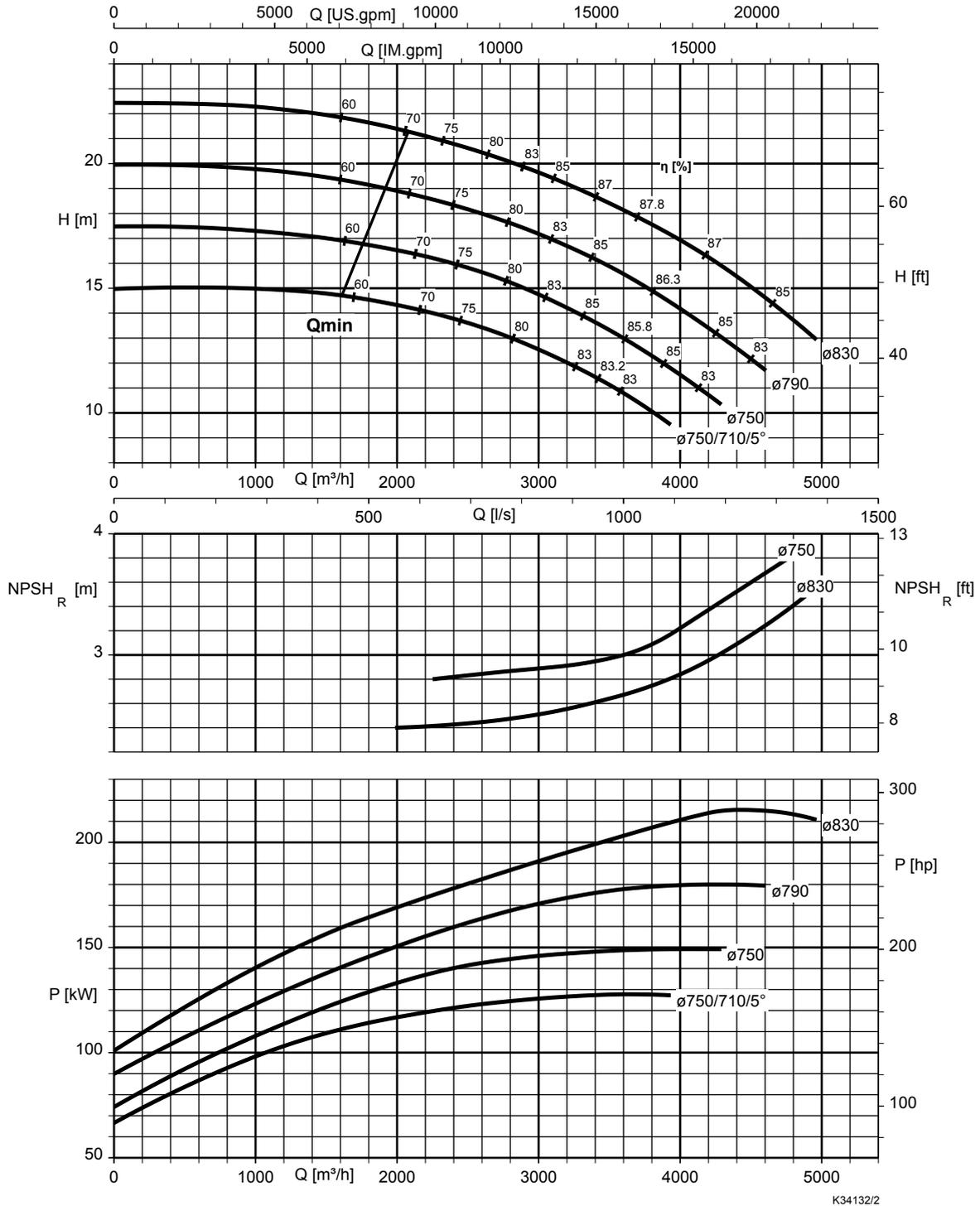
KWP K 600-600-753, n = 480 rpm



KWP K 600-600-803, n = 480 rpm

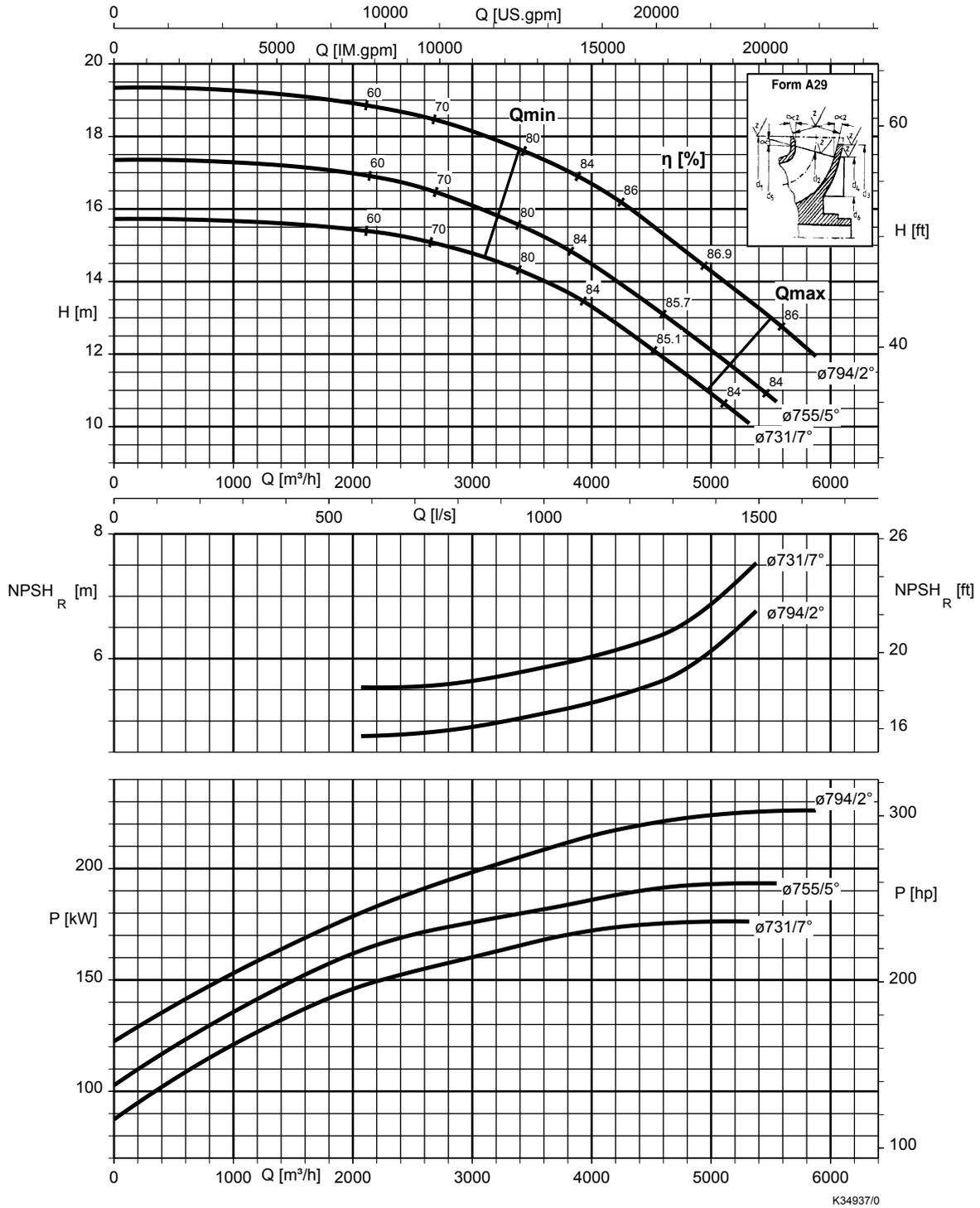


KWP K 600-600-813, n = 480 rpm

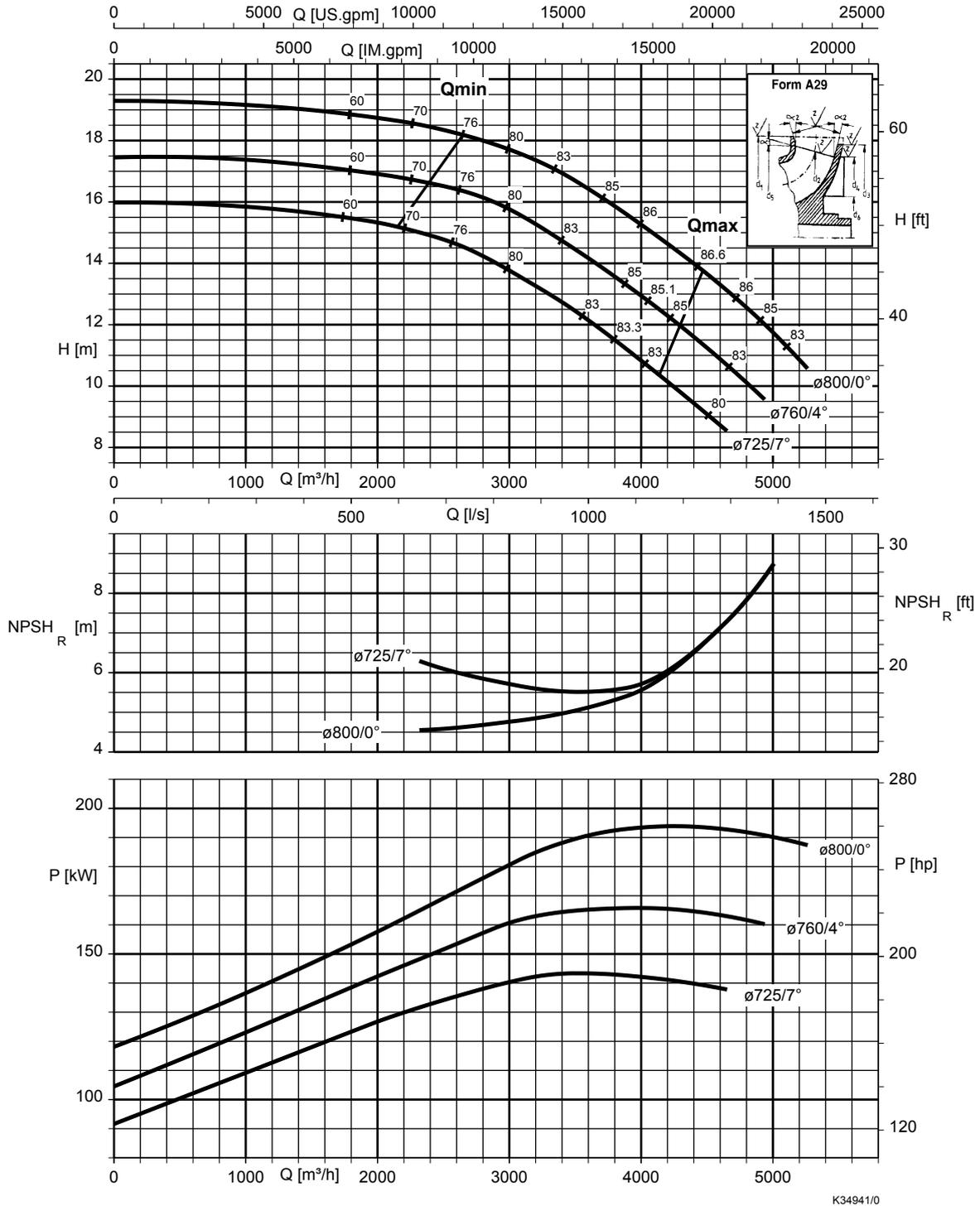


K34132/2

KWP K 600-600-824, n = 480 rpm

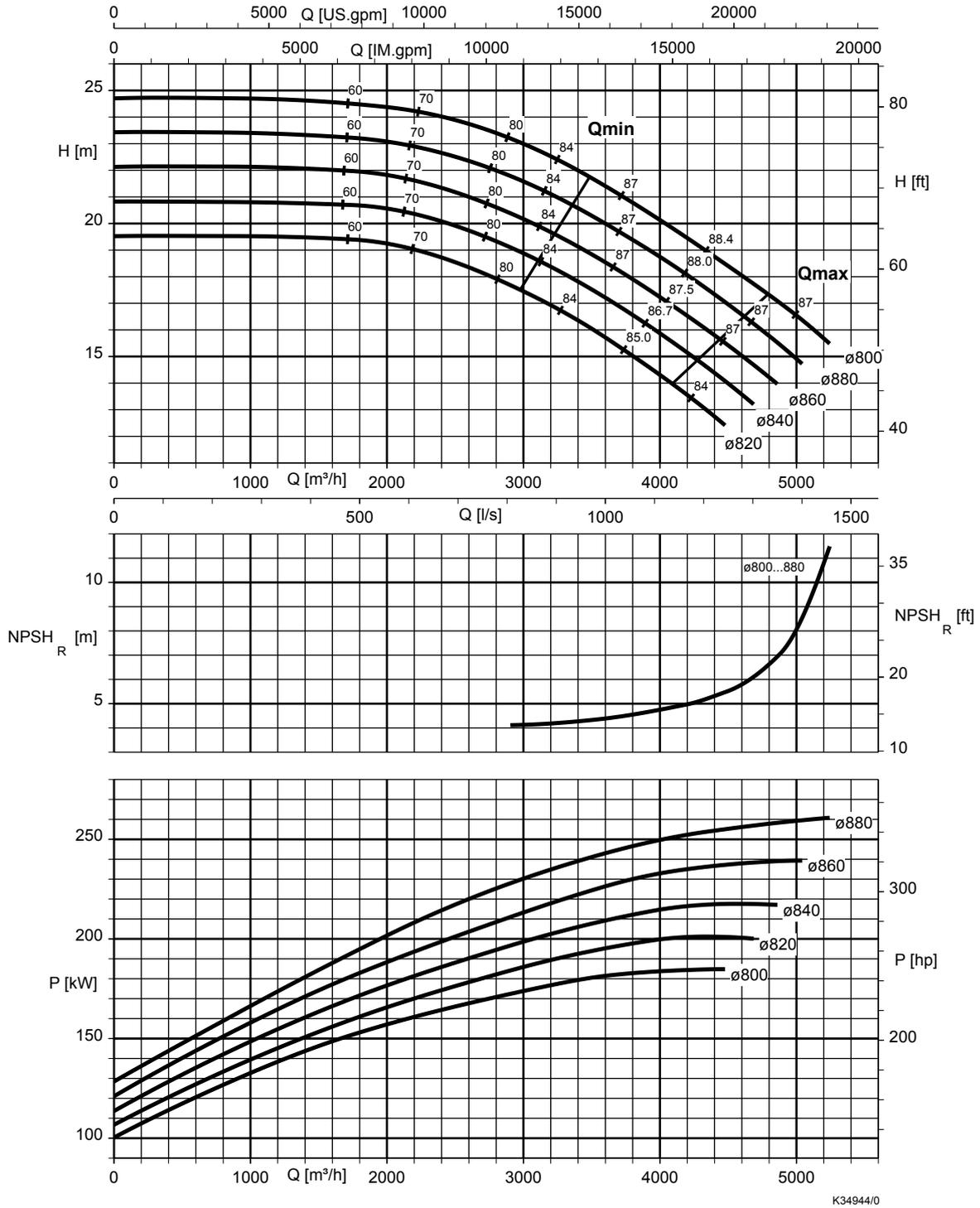


KWP K 600-600-825, n = 480 rpm

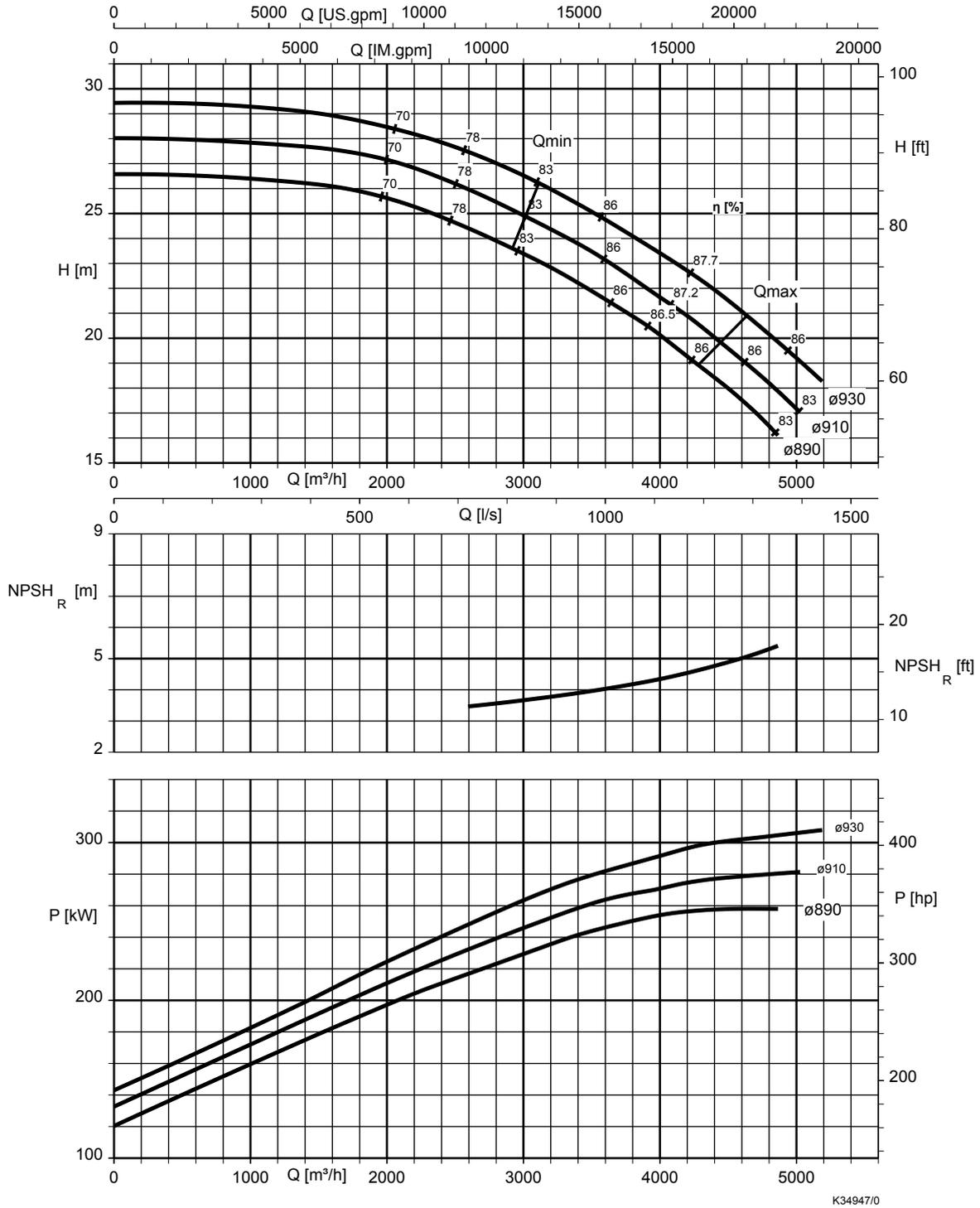


K34941/0

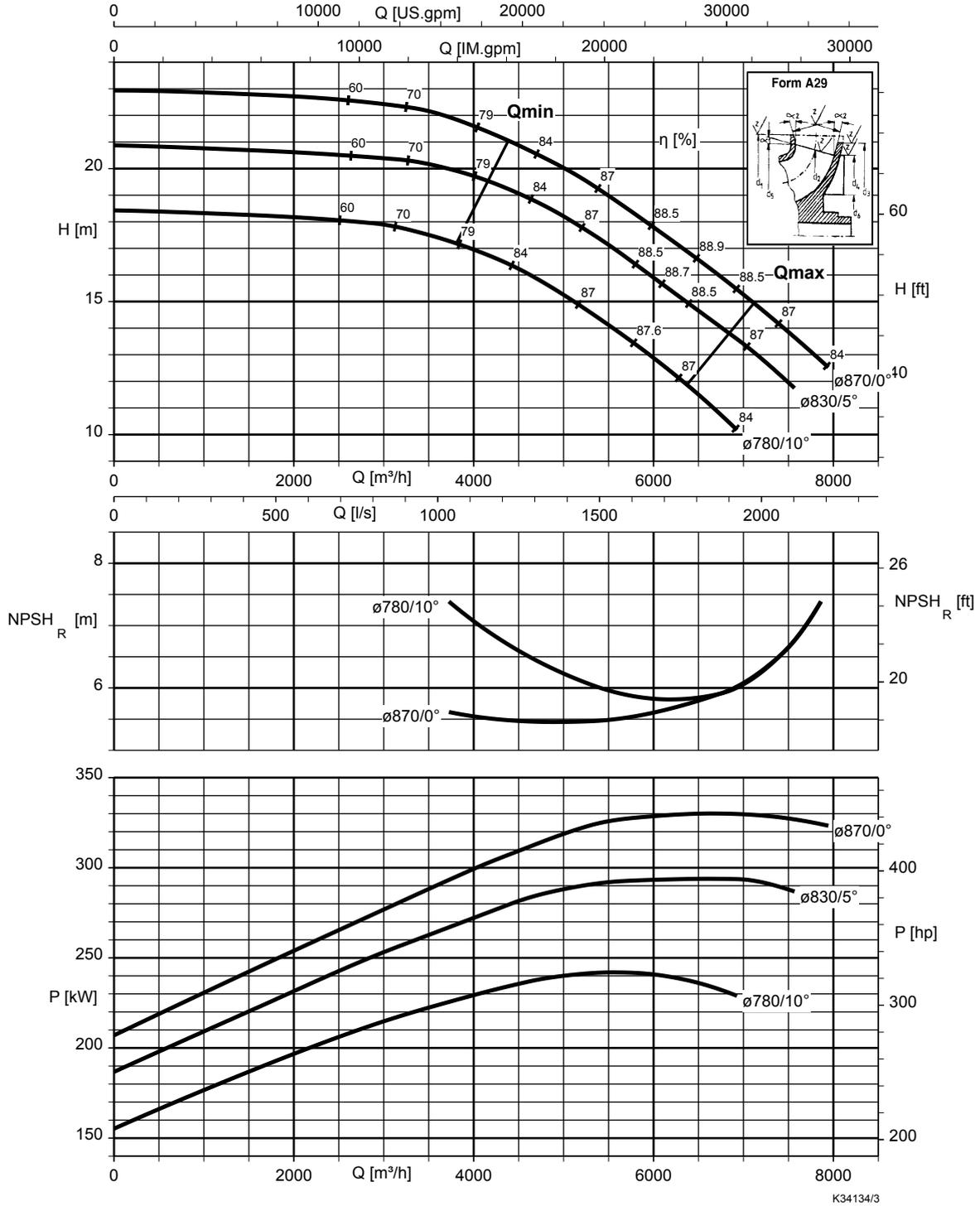
KWP K 600-600-873, n = 480 rpm



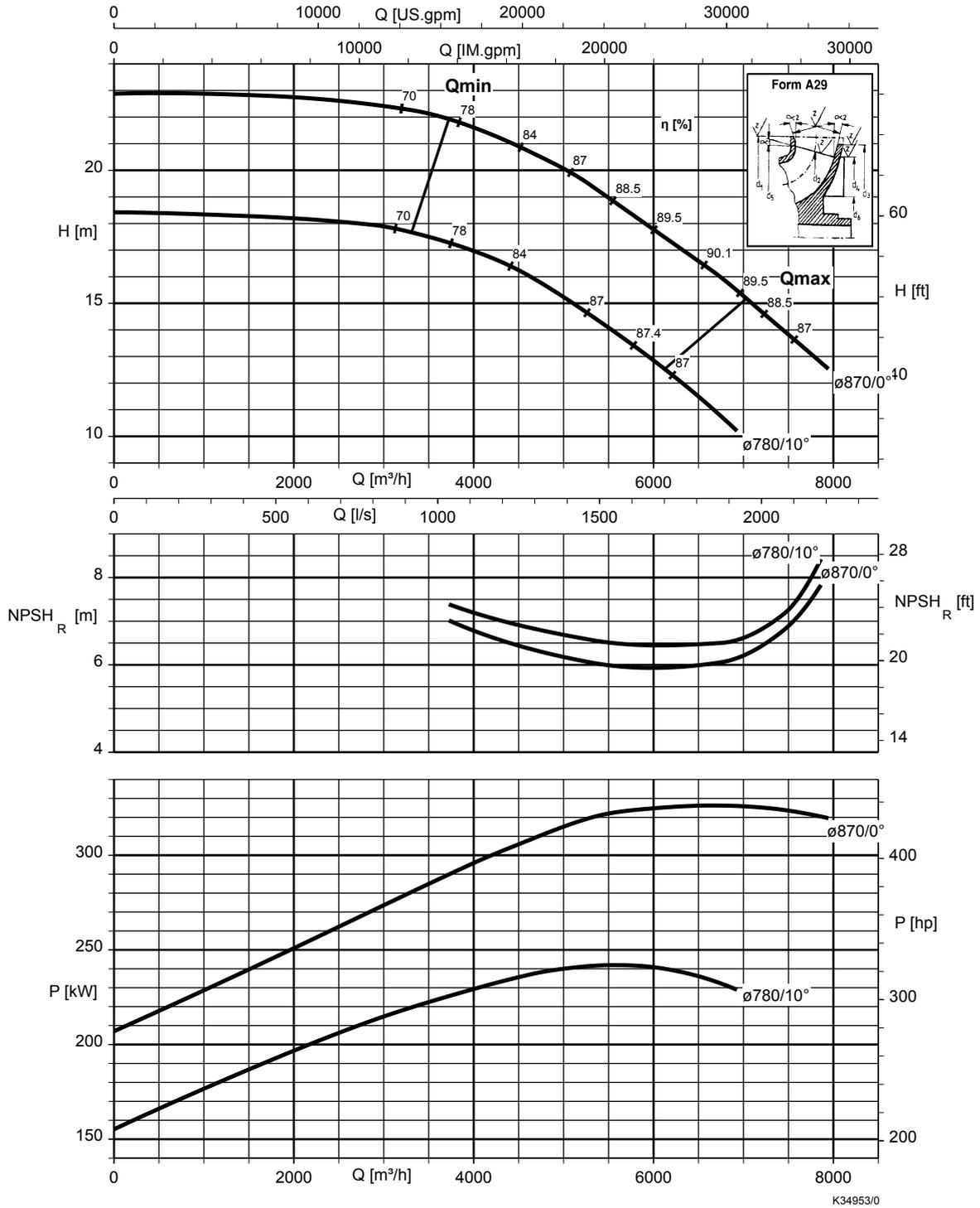
KWP K 600-600-923, n = 480 rpm



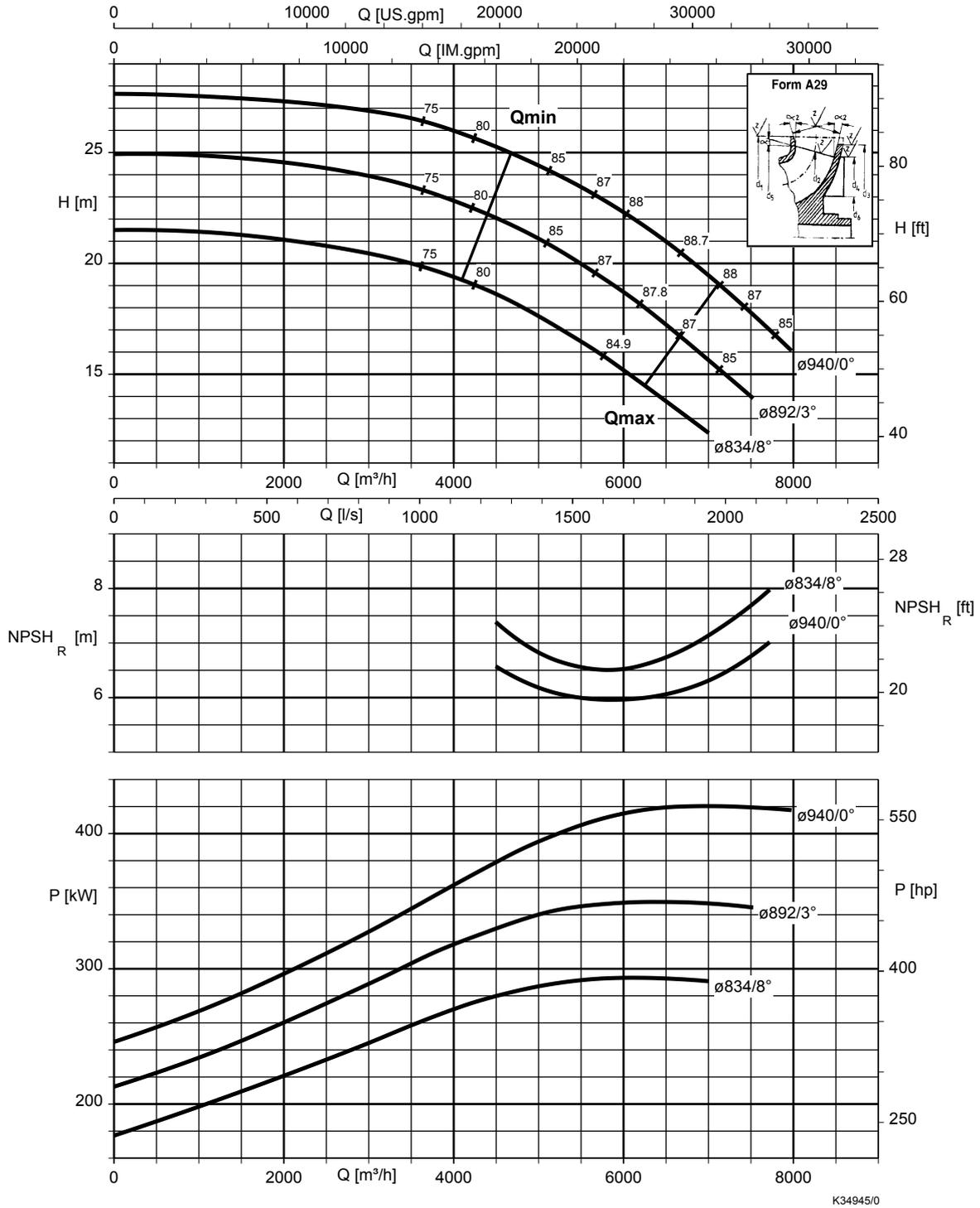
KWP K 700-700-923 , n = 480 rpm



KWP K 700-700-929, n = 480 rpm

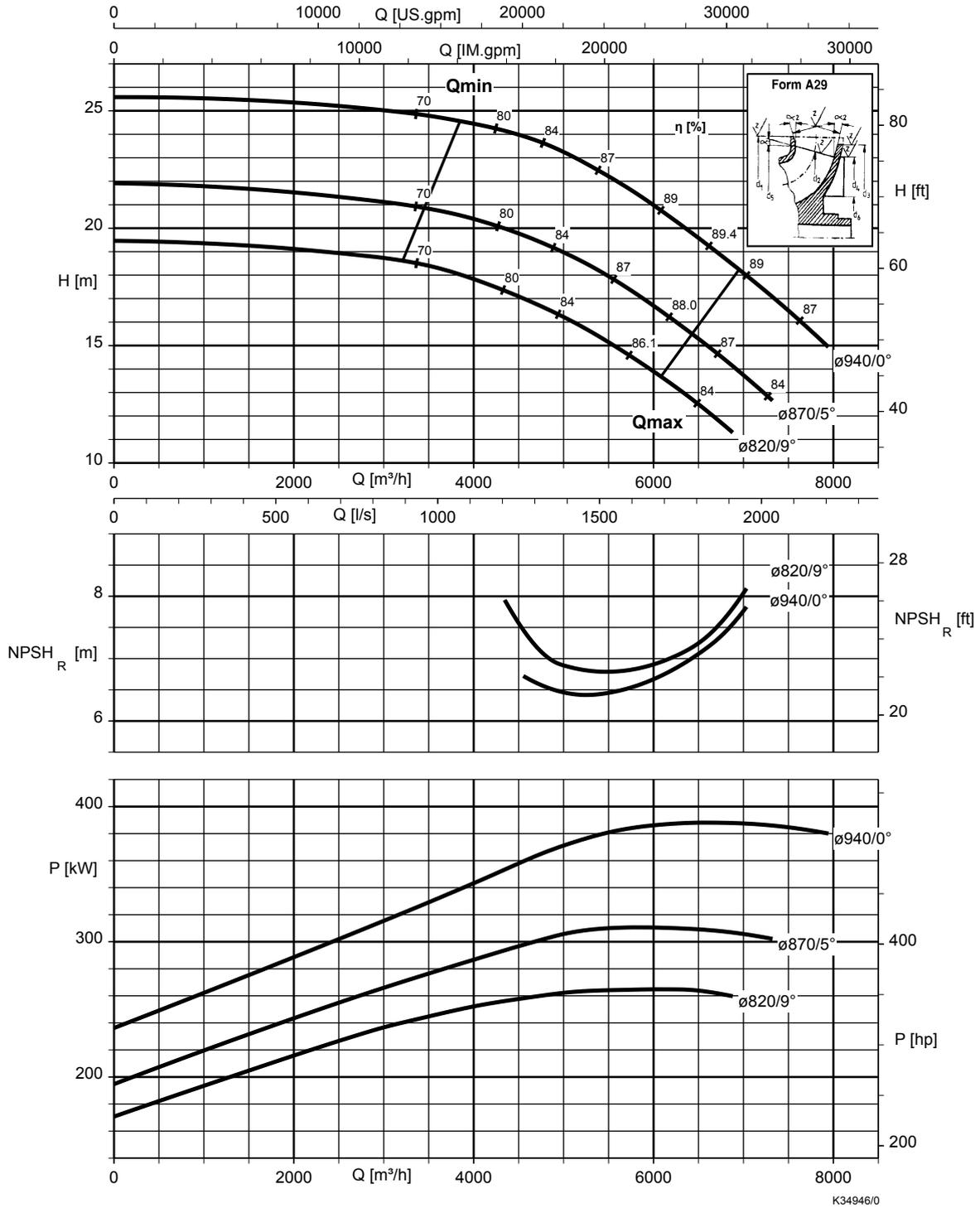


KWP K 800-700-953, n = 480 rpm

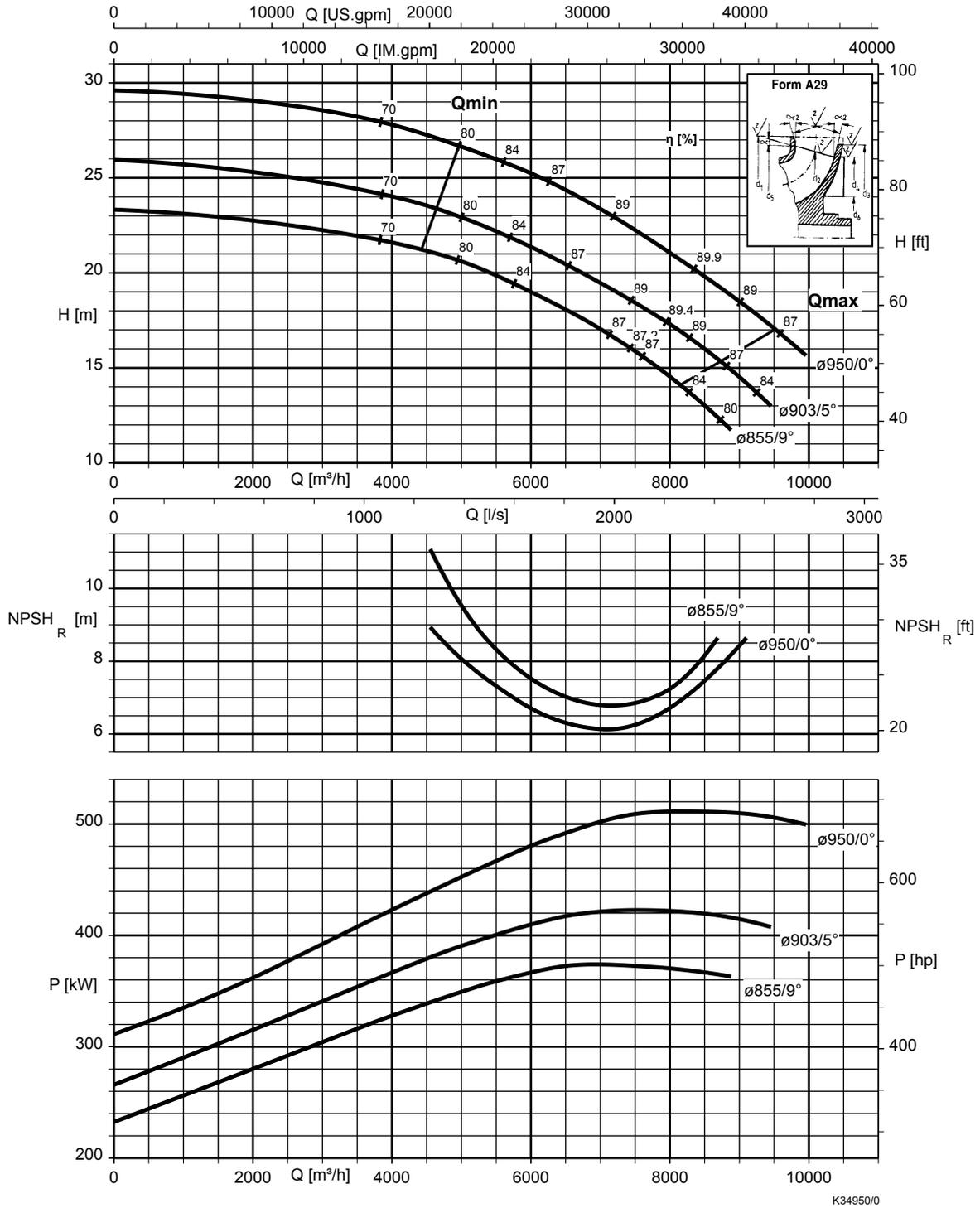


K34945/0

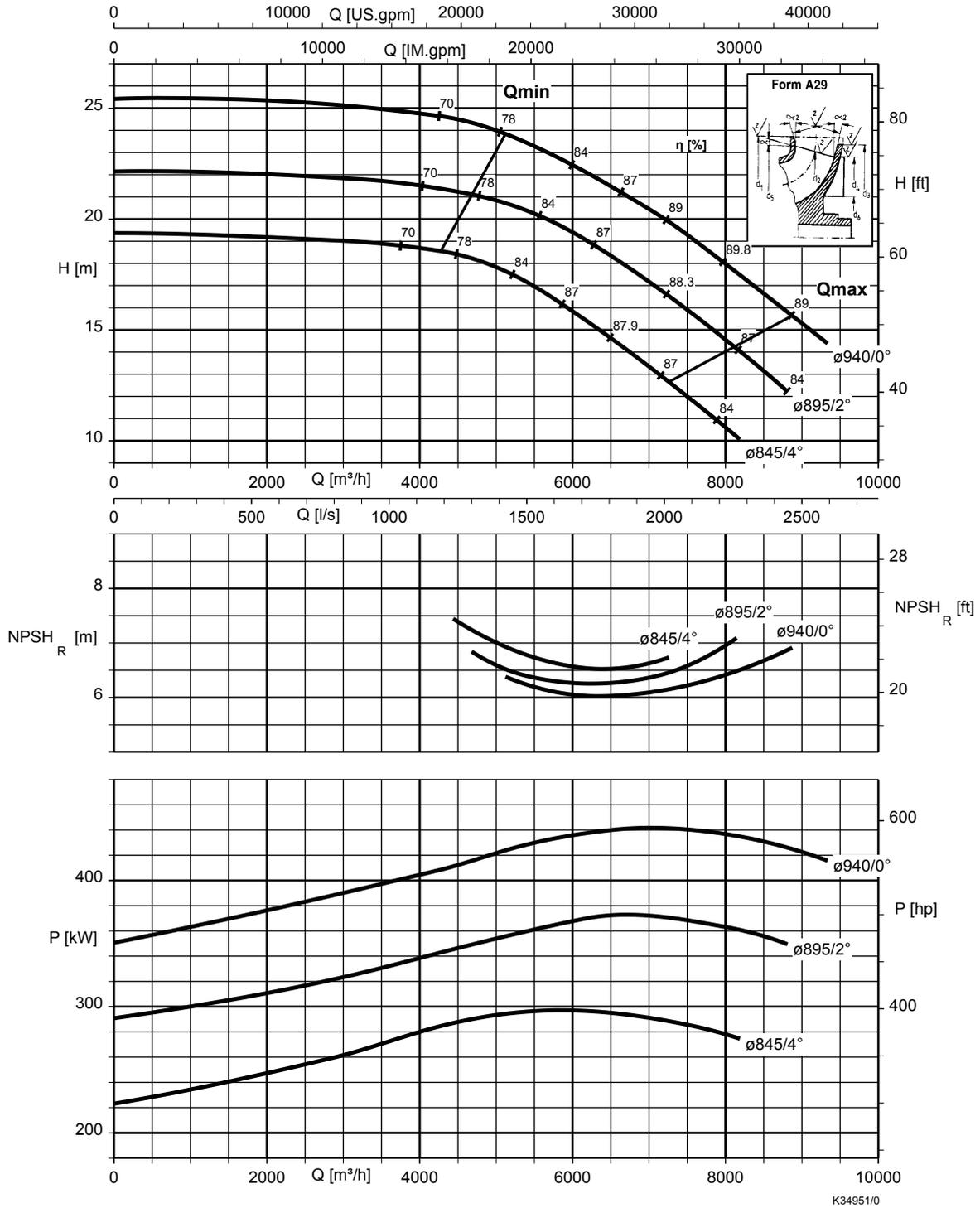
KWP K 800-700-959, n = 480 rpm



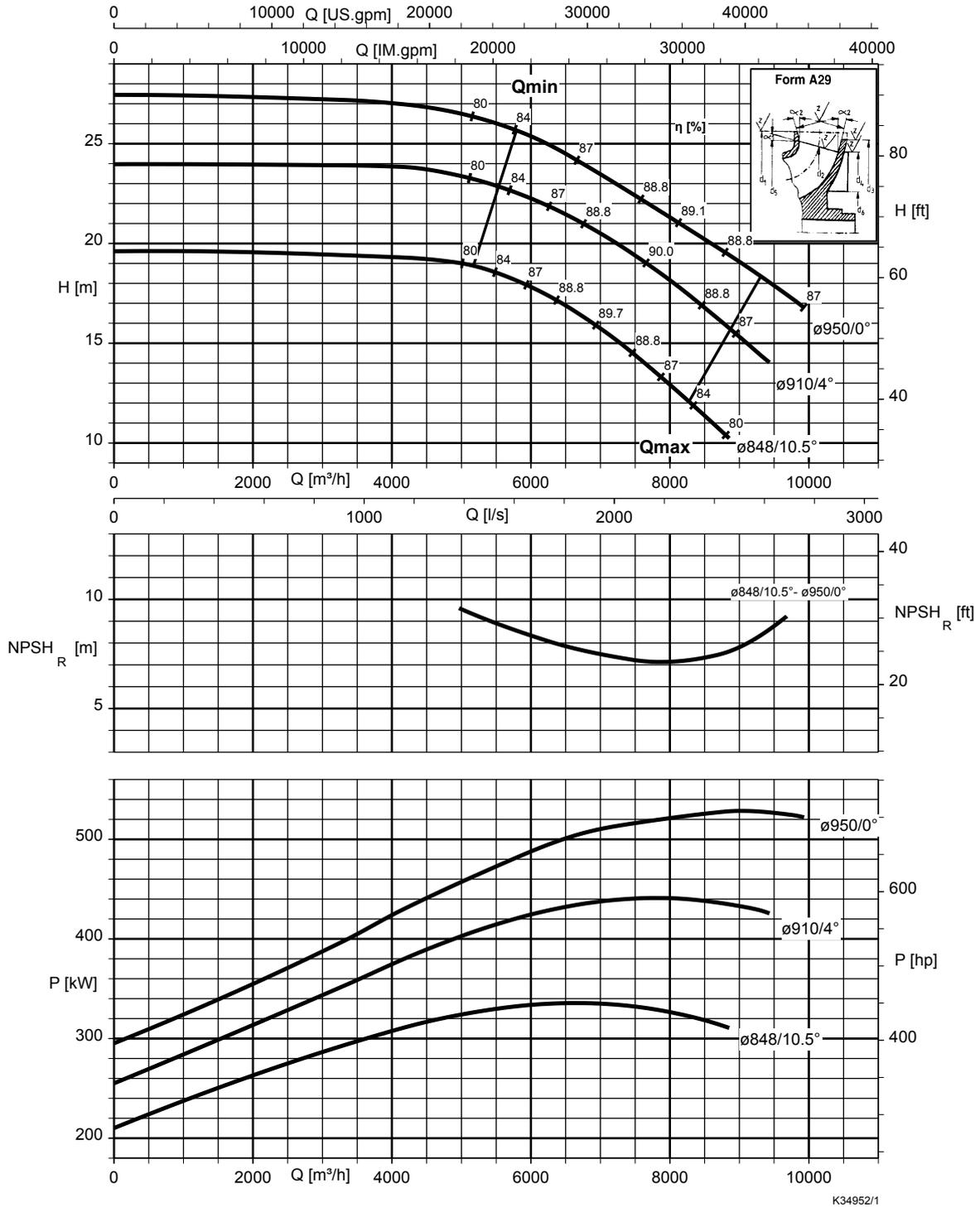
KWP K 800-800-934, n = 480 rpm



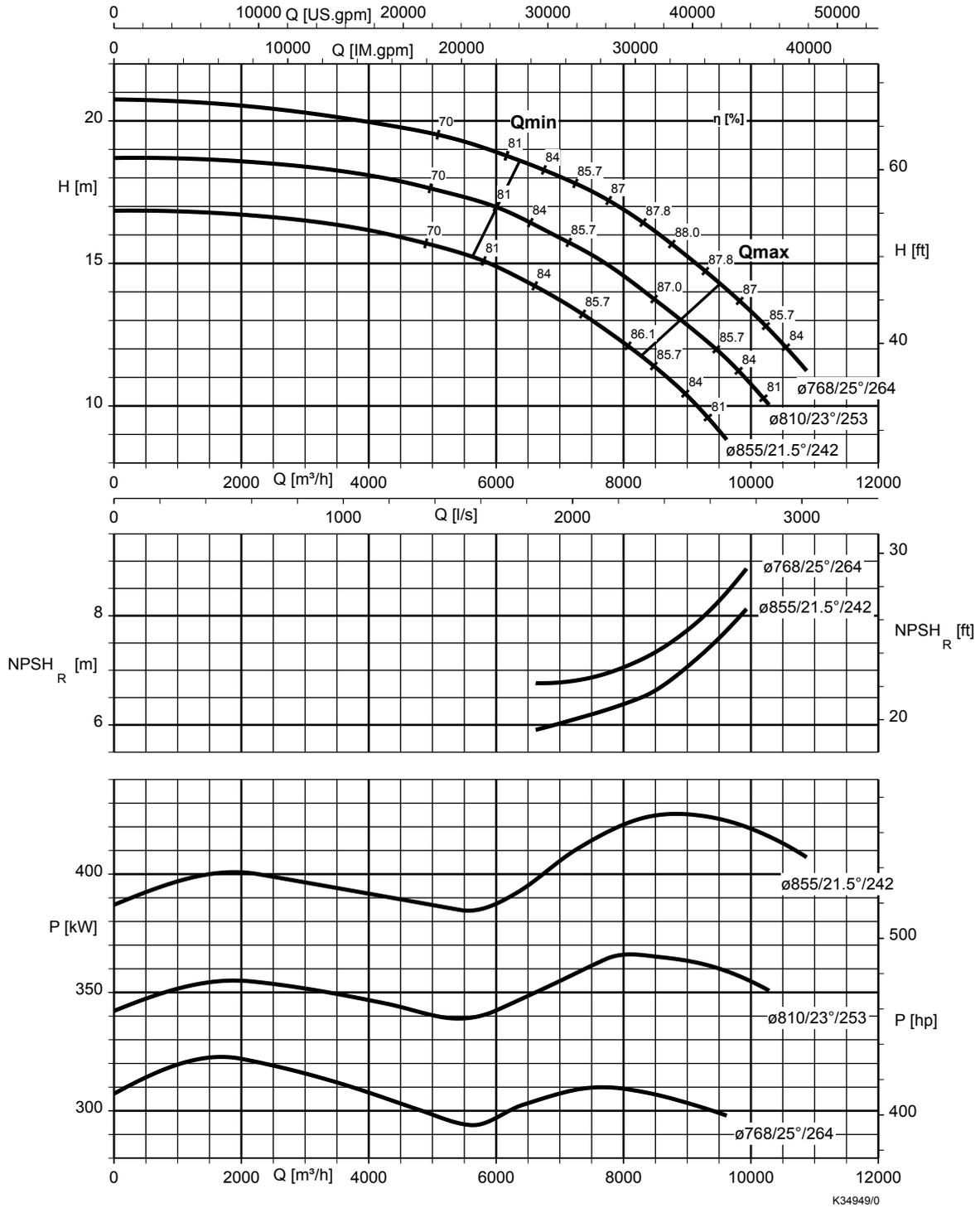
KWP K 800-800-935, n = 480 rpm



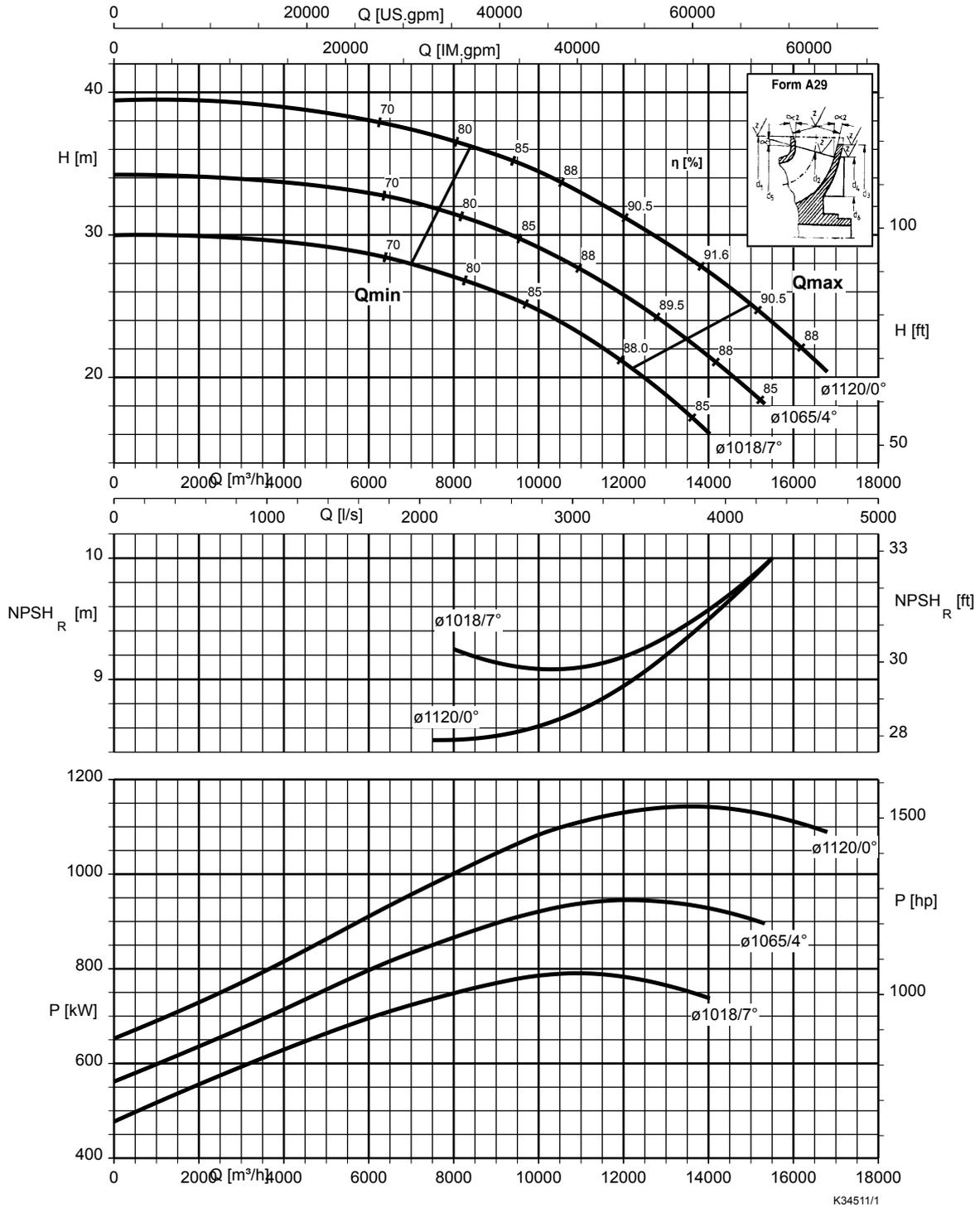
KWP K 800-800-939, n = 480 rpm



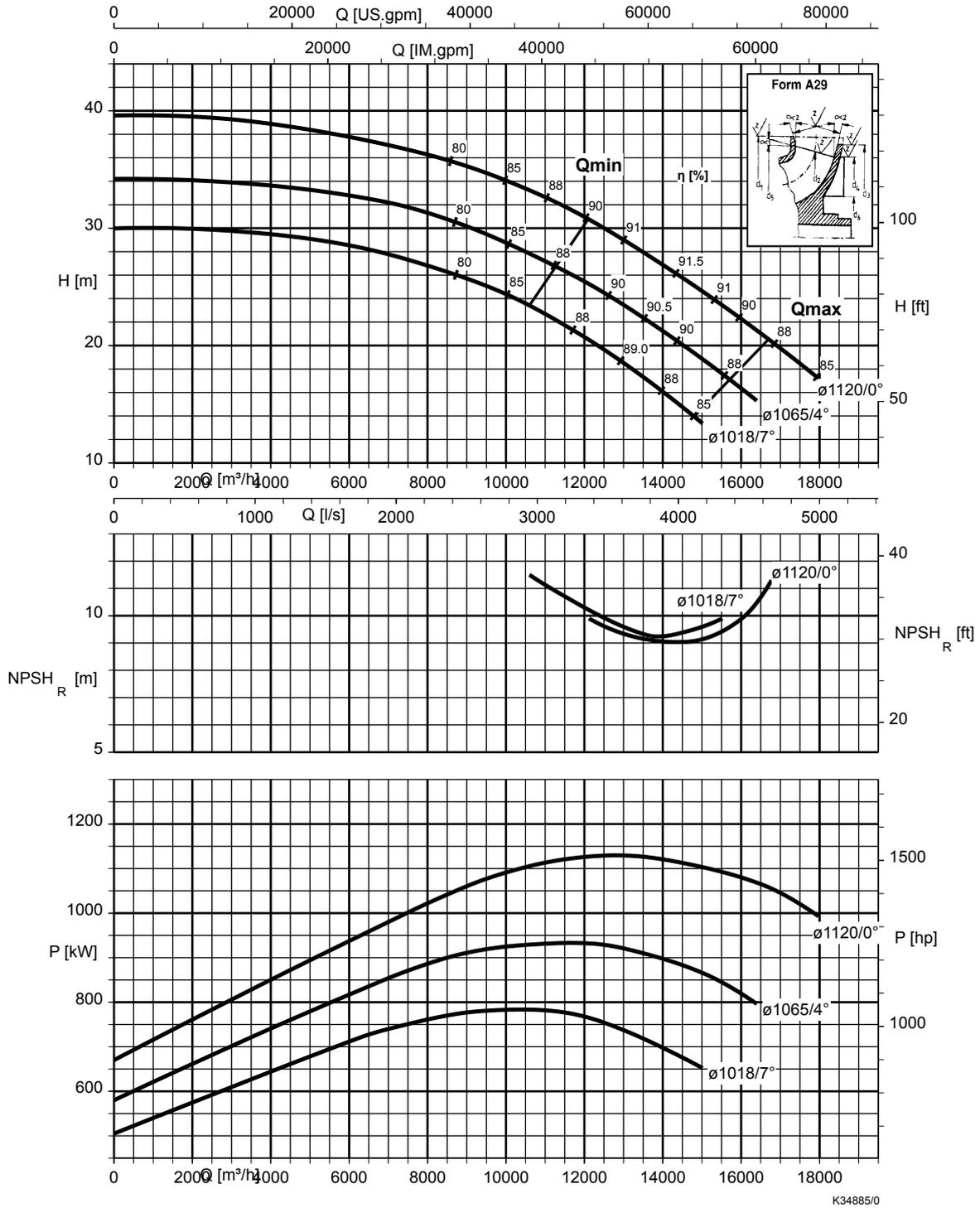
KWP K 800-900-883, n = 480 rpm



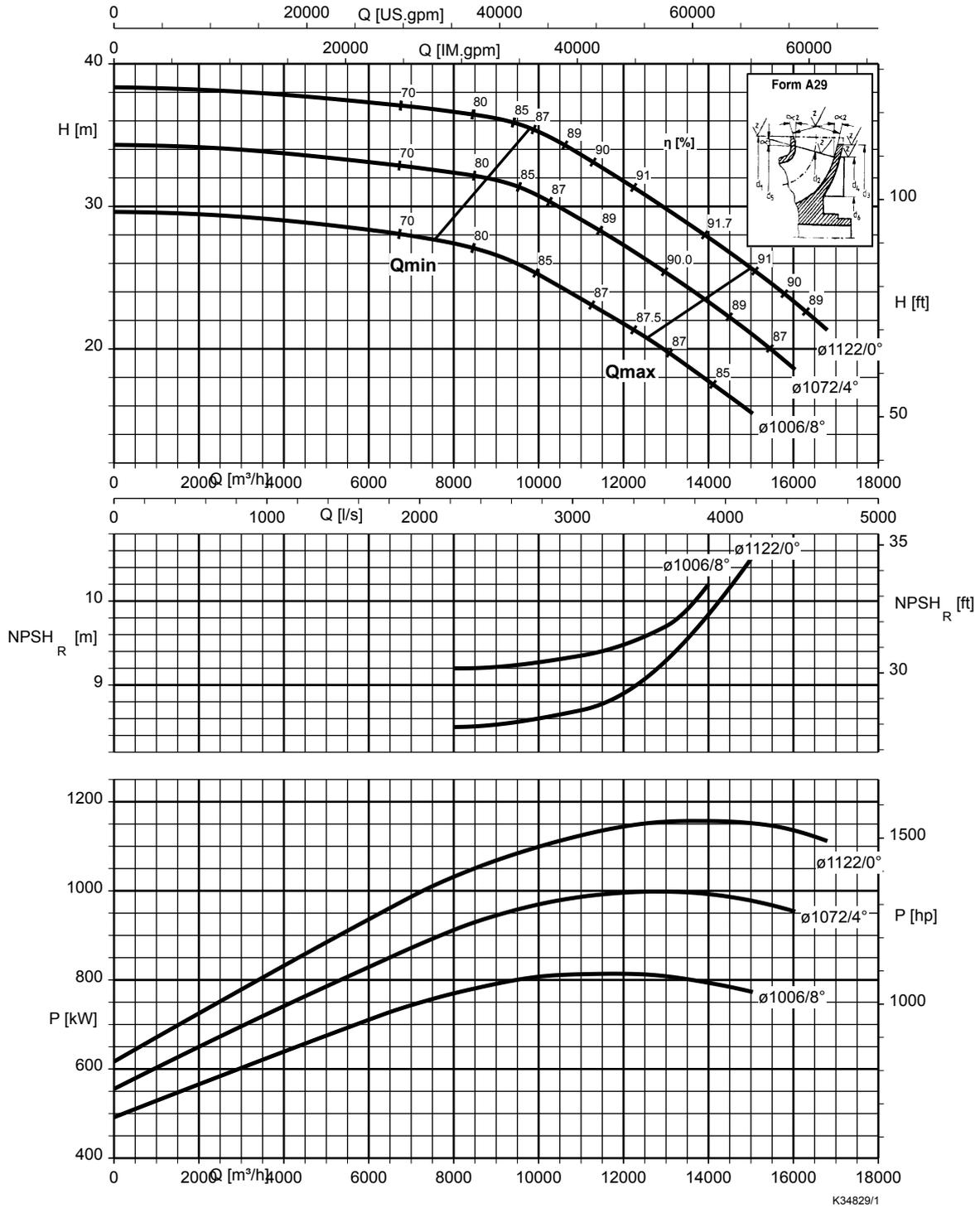
KWP K 900-900-1133, n = 480 rpm



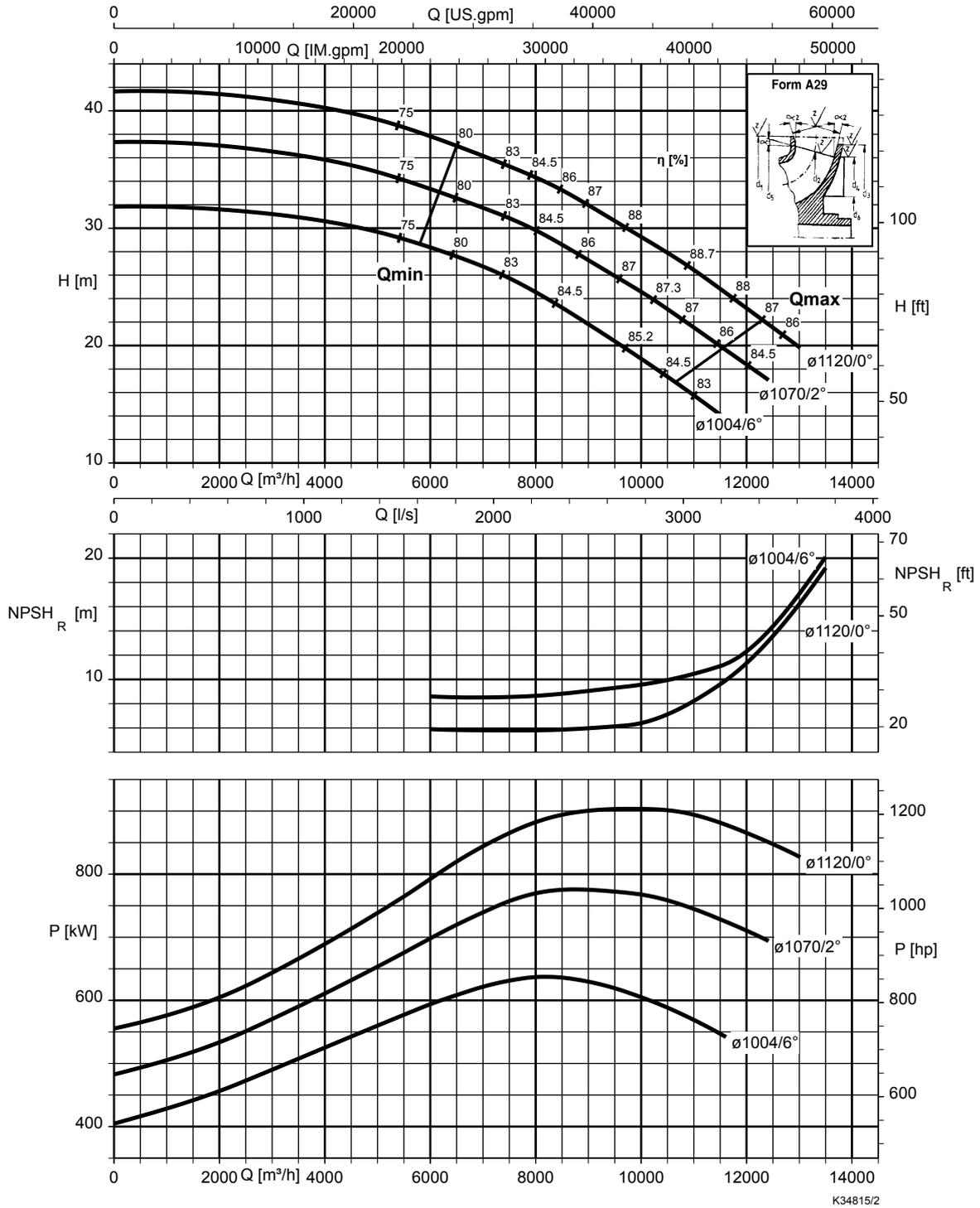
KWP K 900-900-1134, n = 480 rpm



KWP K 900-900-1138, n = 480 rpm



KWP K 900-900-1139, n = 480 rpm









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