Pompe à volute à installation sèche

KWP

50 Hz
Roue K

Courbier

Sommaire

Pompes centrifuges avec garniture d'étanchéité d'arbre

Pompe à volute, à installation sèche

KWP

Généralités

Classe de réception : courbes caractéristiques selon ISO 9906 Classe 2B

Valeurs NPSH
Les valeurs NPSH indiquées sur les courbes caractéristiques correspondent à une chute de 3 % de la hauteur manométrique. Elles sont des valeurs minimales. Elles sont valables pour de l'eau dégazée.
Pour des raisons de sécurité, majorer les valeurs des courbes d'au moins 0,5 m pour l'application. Si les roues sont réalisées en CeramikPolySiC (identifiables pour le chiffre 8 ou 9 à la fin de la désignation de la taille), majorer les valeurs d'au moins 3 m à partir de la taille de pompe DN 400.

Valeur NPSH dans la plage de charge partielle
La mesure des valeurs NPSH pour les débits inférieurs à $Q = 0,3 \times Q_{opt}$ est très complexe. Des informations sur les valeurs NPSH dans la plage de charge partielle ne sont pas fournies.

Densité du fluide pompé
Les hauteurs manométriques et les puissances indiquées sont valables pour tous les fluides pompés dont la densité $\rho = 1,0$ kg/dm³ et la viscosité cinématique v est égale ou inférieure à 20 mm²/s. Si la densité ≠ 1,0, multiplier la puissance indiquée par ρ. Pour les viscosités > 20 mm²/s, il convient de calculer les données correspondantes à l'eau froide et de déterminer l'incidence sur la puissance de la pompe.

Rognage de la roue
Un rognage de la roue est possible pour chaque diamètre jusqu'au diamètre minimum déterminé.

Limites d'utilisation
Respecter les limites d'utilisation dues aux matériaux ou à la version.

Sauf spécification contraire dans les courbes ou les fiches des spécifications, les règles suivantes s'appliquent :

- Service occasionnel
  - **Pour les tailles < DN 600 :** Q_{min} [1] = 0,1×Q_{opt} [2]
  - **Pour les tailles ≥ DN 600 :** Q_{min} [1] = 0,4×Q_{opt} [2]
- Service continu
  - **Pour les tailles ≤ DN 125 :** Q_{min} [1] = 0,2×Q_{opt} [2]
  - **Pour les tailles ≥ DN 150 :** Q_{min} [1] = 0,3×Q_{opt} [2]
  - **Pour fonctionnement à 2 pôles :** Q_{max} = 1,1×Q_{opt} [2]
  - **Pour fonctionnement à 4 pôles :** Q_{max} = 1,25×Q_{opt} [2]

Les valeurs verticales relatives à Q_{max} indiquées dans certaines courbes caractéristiques décrivent le débit Q_{max} indépendamment de la vitesse de rotation en tant que fonction de v_s = 7,5 m/s [3]

Puissance nominale du moteur

Les puissances nominales du moteur indiquées sont valables dans les conditions suivantes :

- Températures ambiantes jusqu'à 40 °C
- Altitude d'installation jusqu'à 1 000 m au-dessus du niveau de la mer
- Tensions de 230 / 400 V - 400 / 690 V

Caractéristiques techniques de l'hydraulique

Caractéristiques techniques de l'hydraulique

Tailles	Support de palier	Passage libre	Nombre d'aubes	Diamètre de roue	
				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

1) Débit minimum autorisé
2) Débit au point de rendement maximal
3) Vitesse d'écoulement dans la tuyauterie, côté aspiration

Tailles	Support de palier	Passage libre	Nombre d'aubes	Diamètre de roue	
				Max.	min.
		[mm]		[mm]	[mm]
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
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

Tailles	Support de palier	Passage libre	Nombre d'aubes	Diamètre de roue	
				Max.	min.
		[mm]		[mm]	[mm]
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

Récapitulatif des tailles

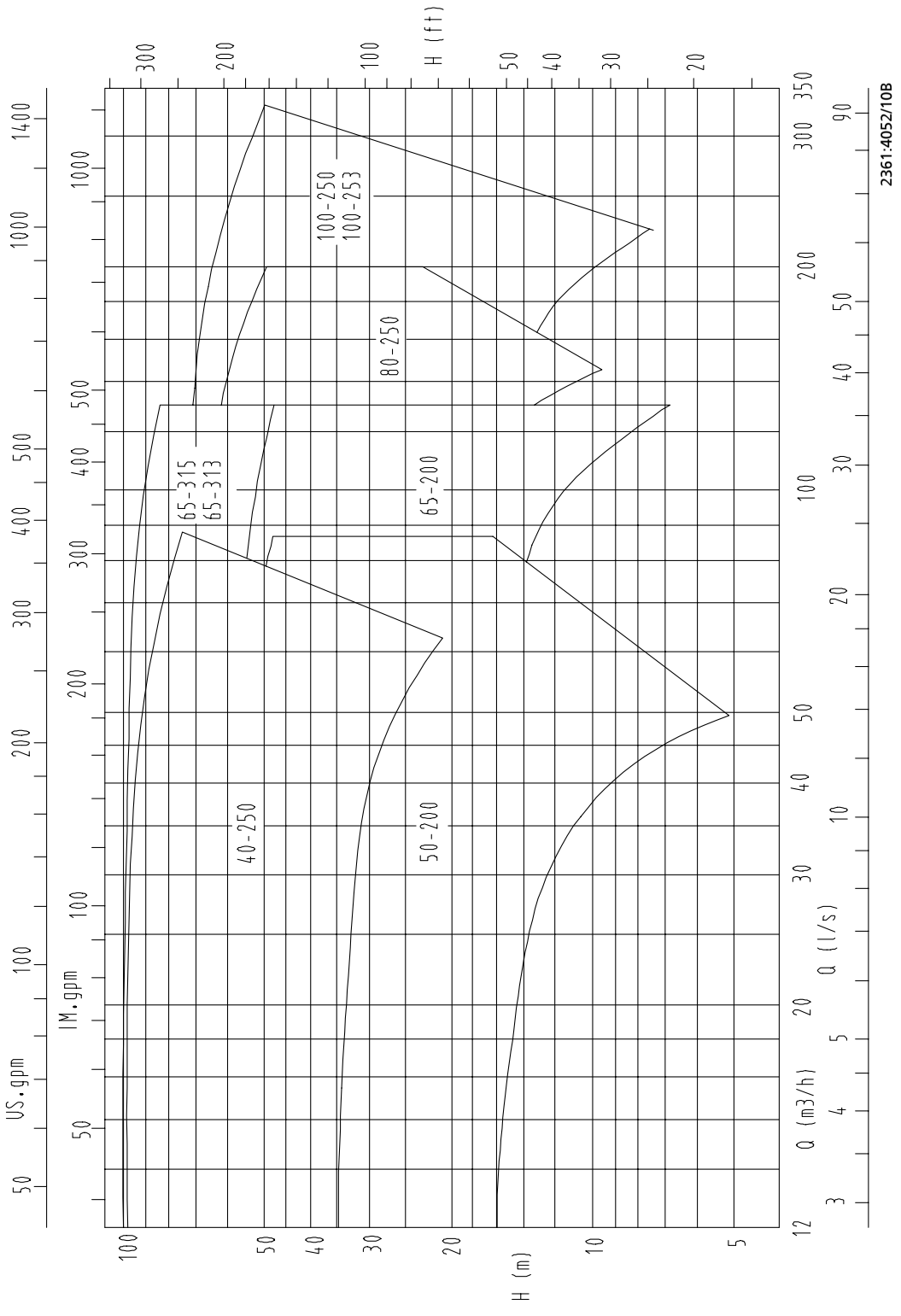
Récapitulatif des tailles KWP K

Taille	Vitesse de rotation [t/min]					
	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)	–	–

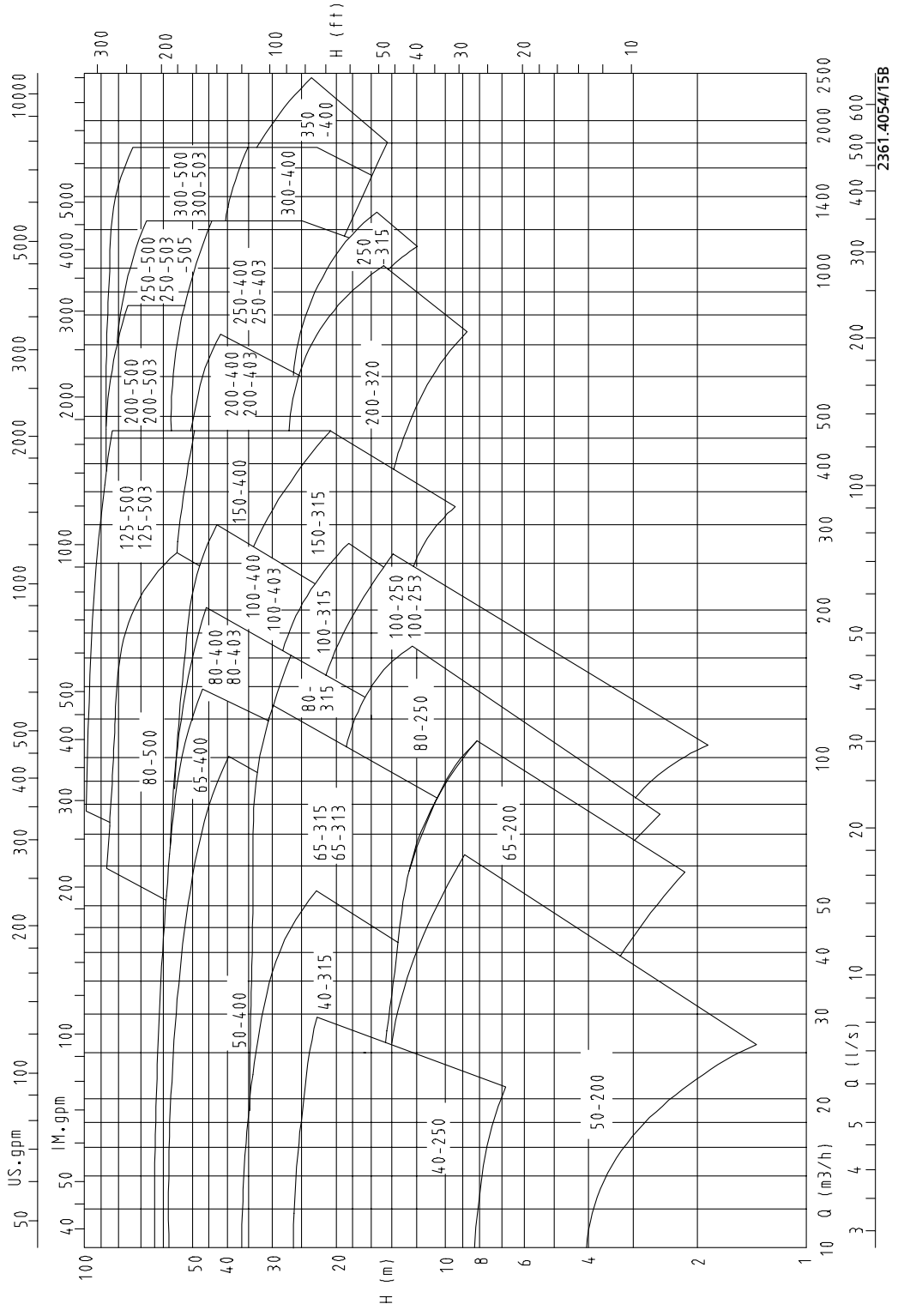
Taille	Vitesse de rotation [t/min]					
	2900	1450	960	725	580	480
300-300-503	–	(⇨ page 59)	(⇨ page 100)	(⇨ page 141)	–	–
350-350-400	–	(⇨ page 60)	(⇨ page 101)	(⇨ page 142)	–	–
350-350-500	–	–	(⇨ page 102)	(⇨ page 143)	–	–
350-350-503	–	–	(⇨ page 103)	(⇨ page 144)	–	–
350-350-504	–	–	(⇨ page 104)	(⇨ 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)

Grilles de sélection

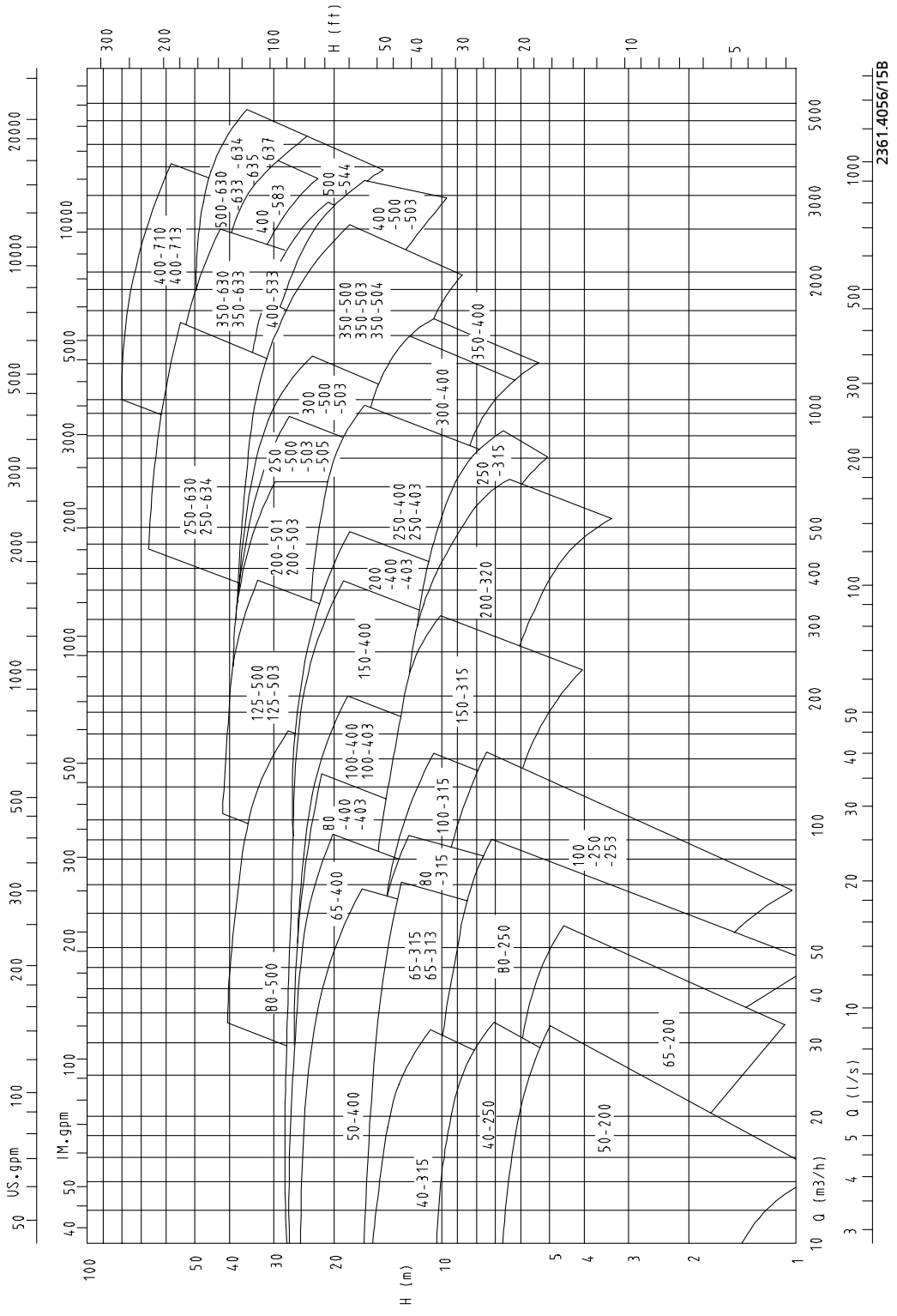
KWP K, n = 2900 t/min



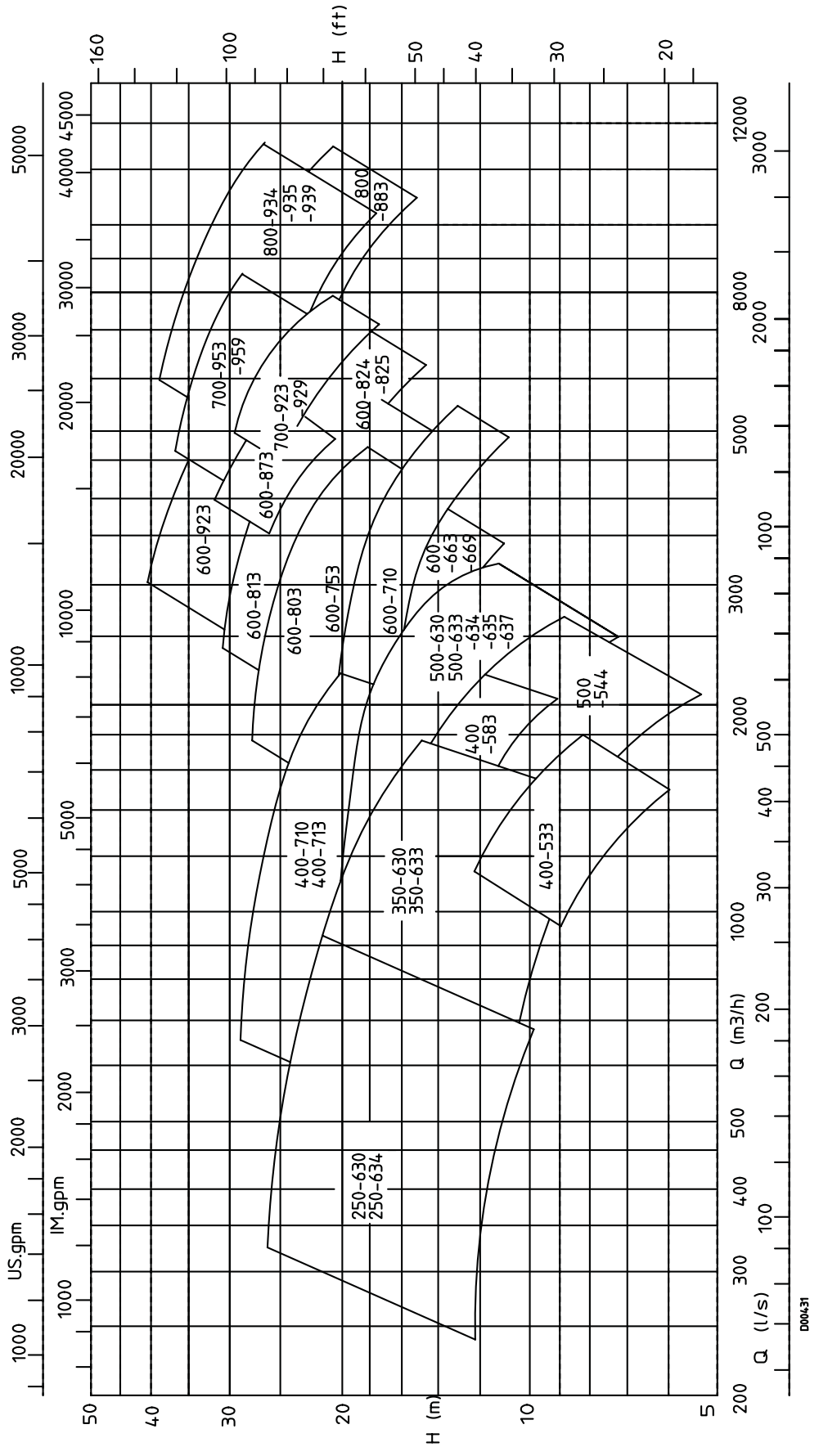
KWP K, n = 1450 t/min



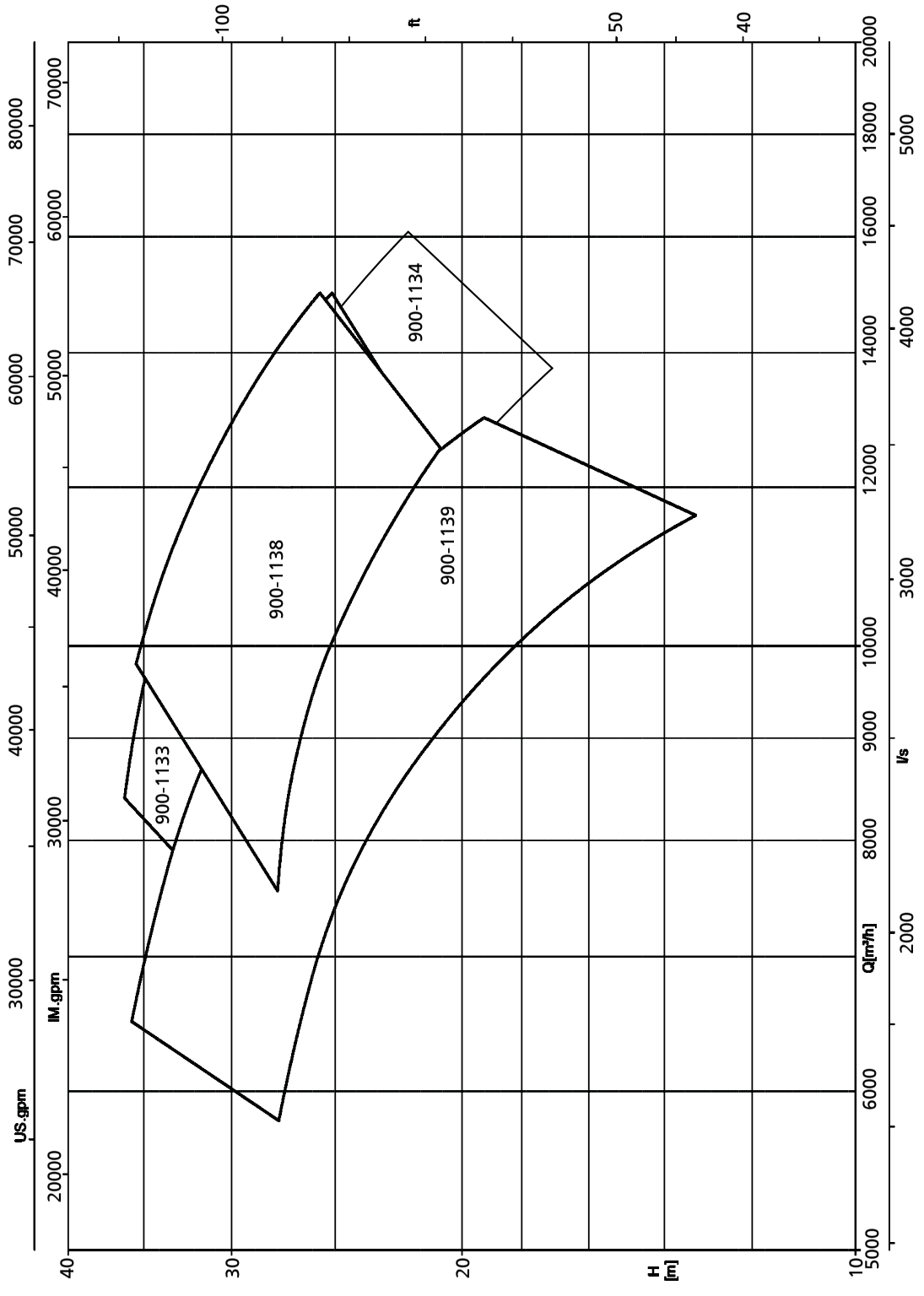
KWP K, n = 960 t/min



KWP K, n = 580 t/min



KWP K, n = 480 t/min

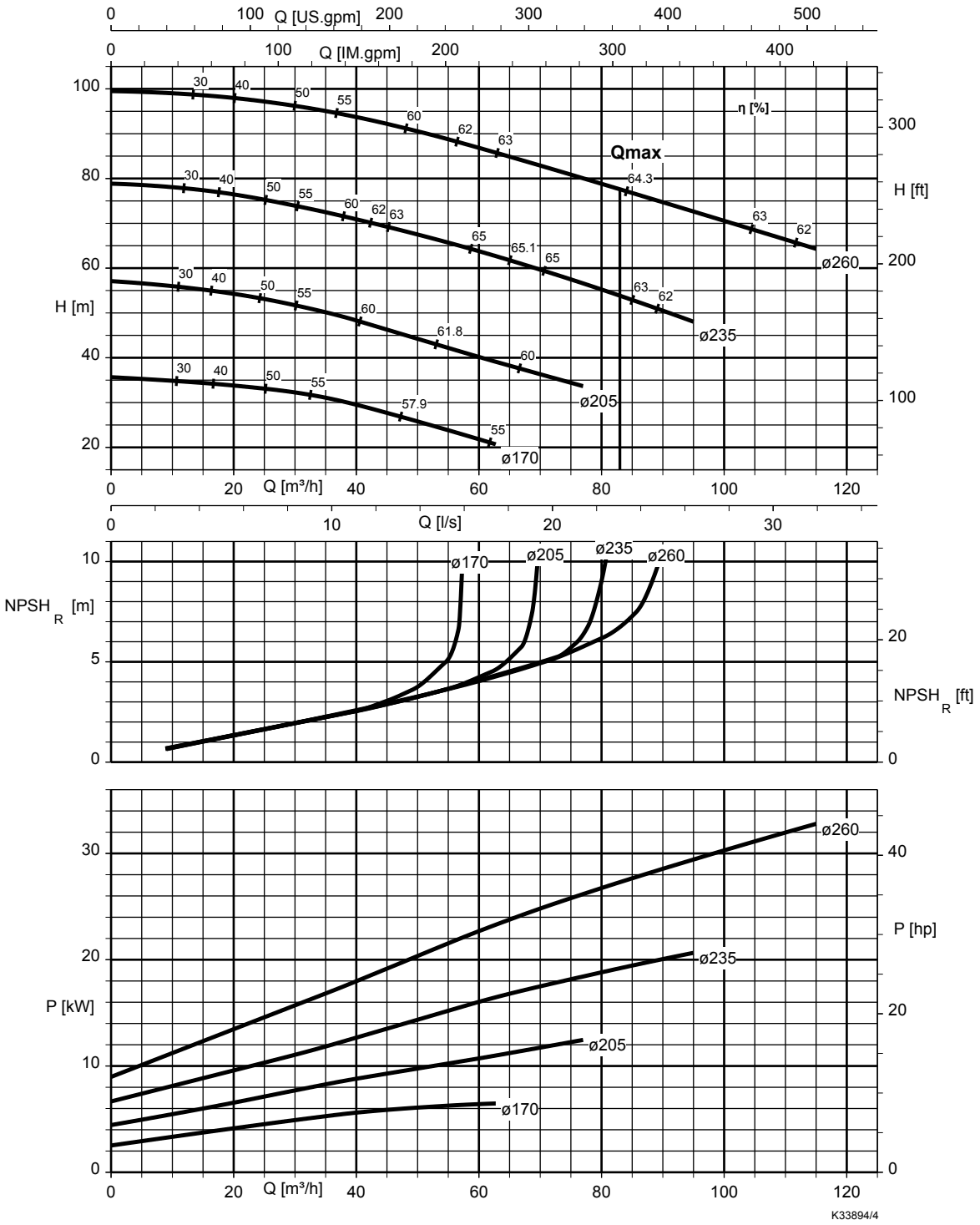


Courbes caractéristiques

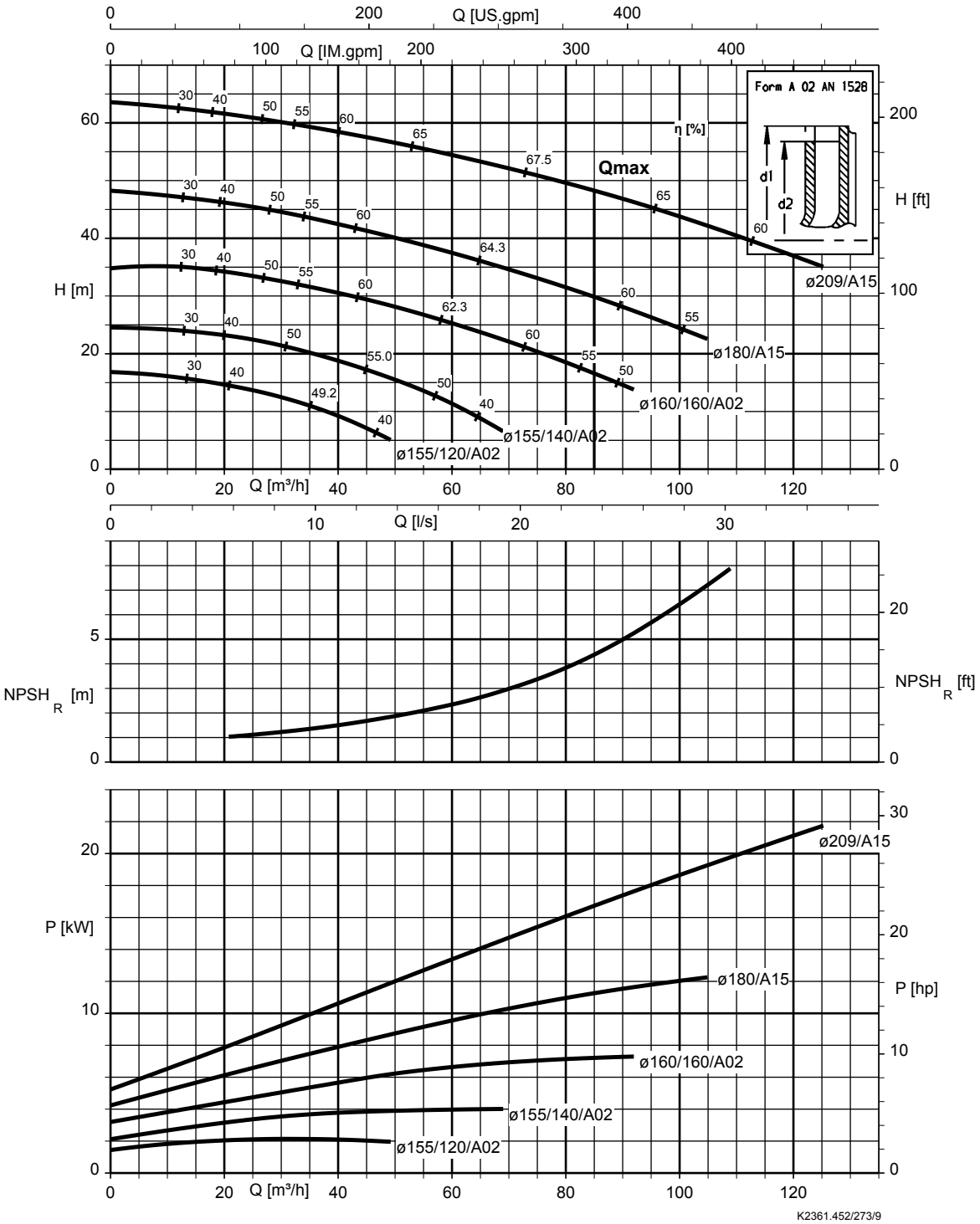
Roue K

n = 2900 t/min

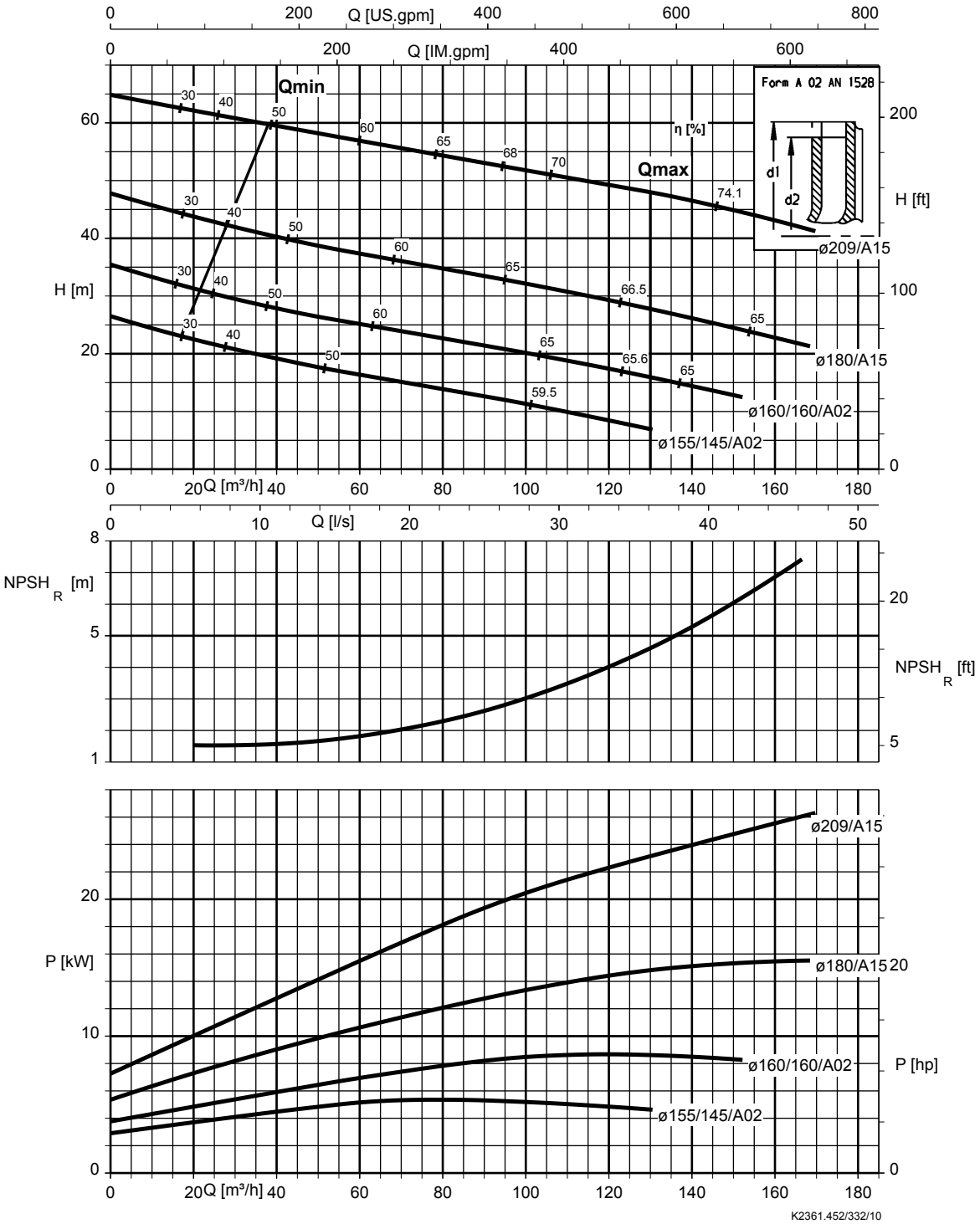
KWP K 065-040-250, n = 2900 t/min



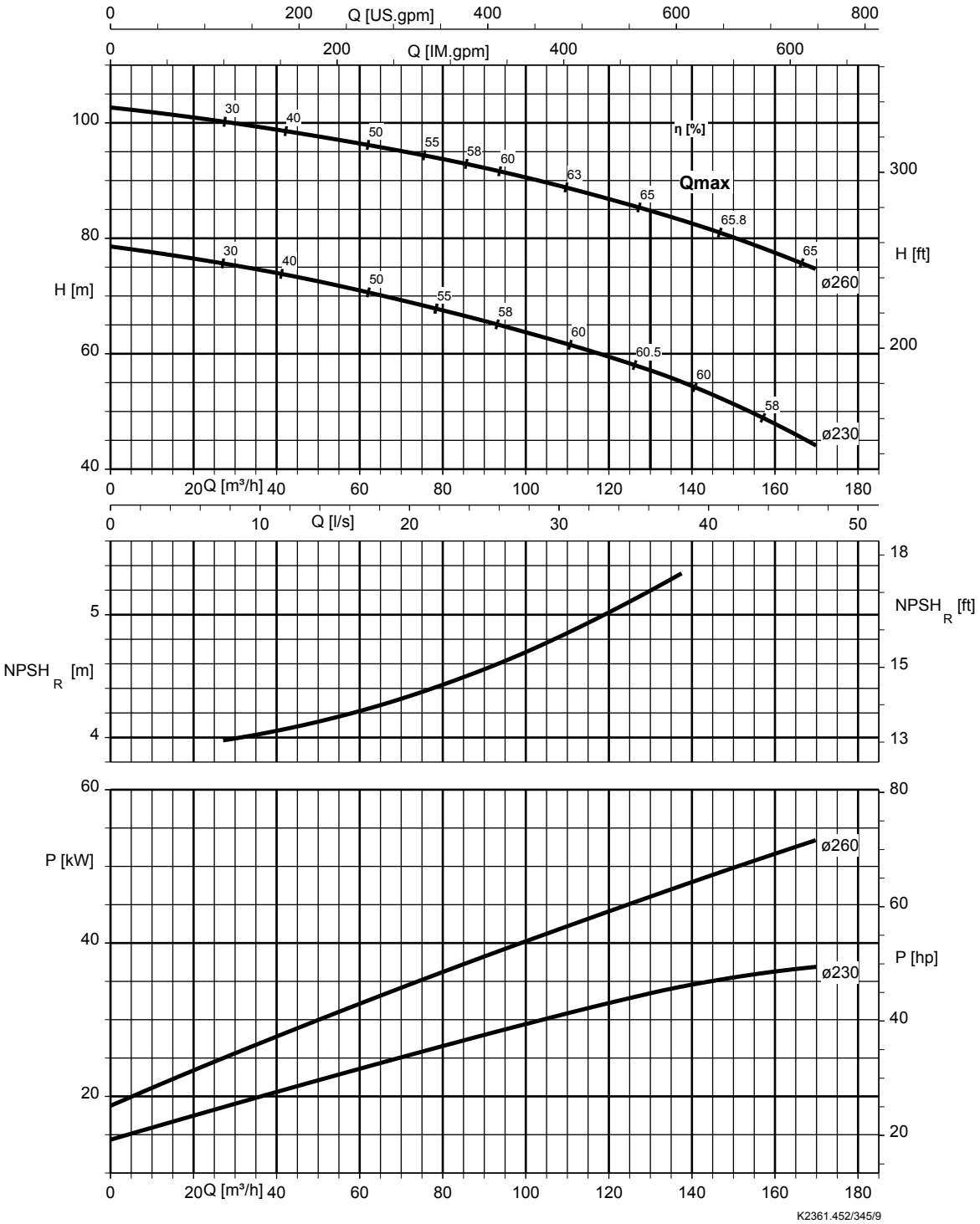
KWP K 065-050-200, n = 2900 t/min



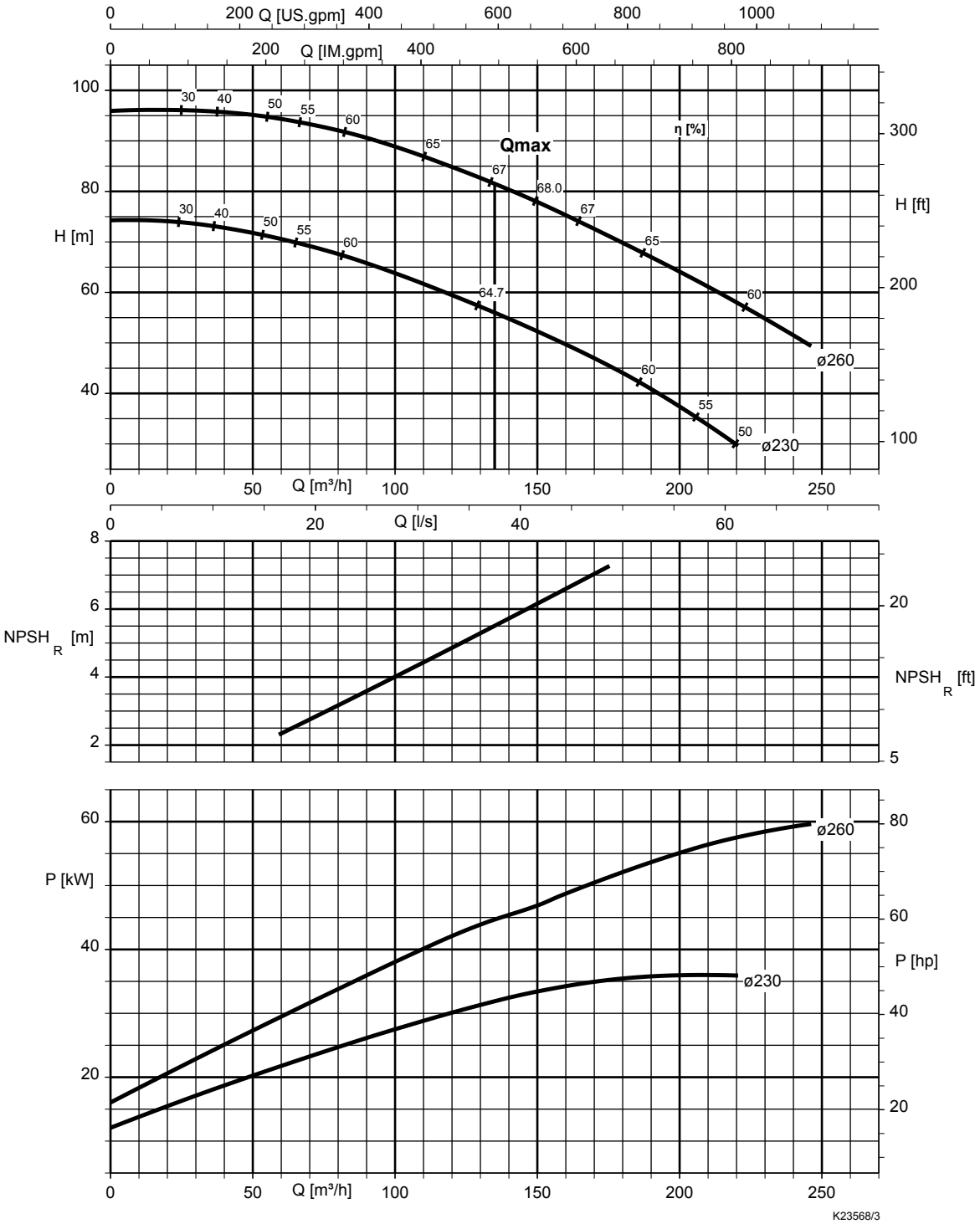
KWP K 080-065-200, n = 2900 t/min



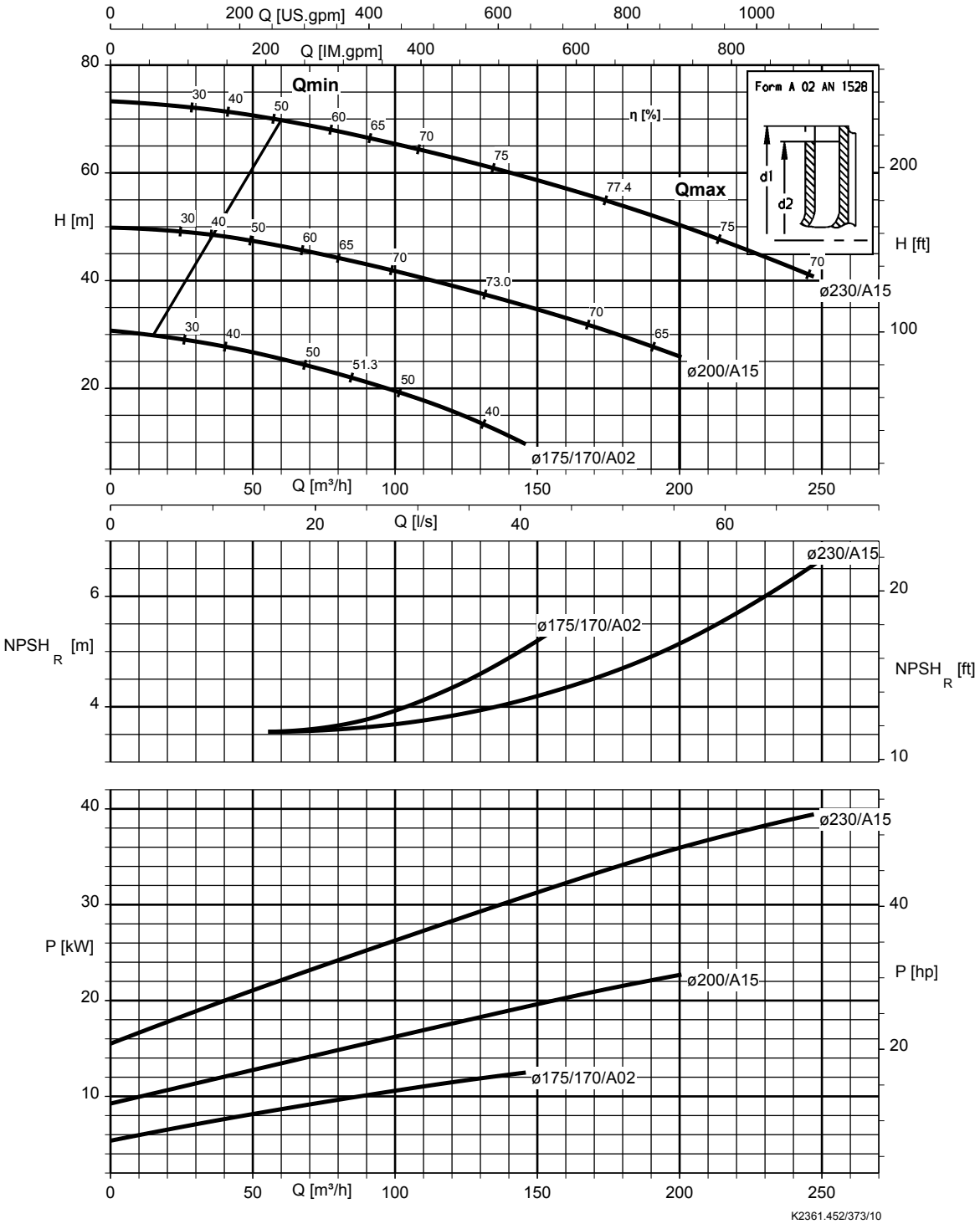
KWP K 080-065-315, n = 2900 t/min



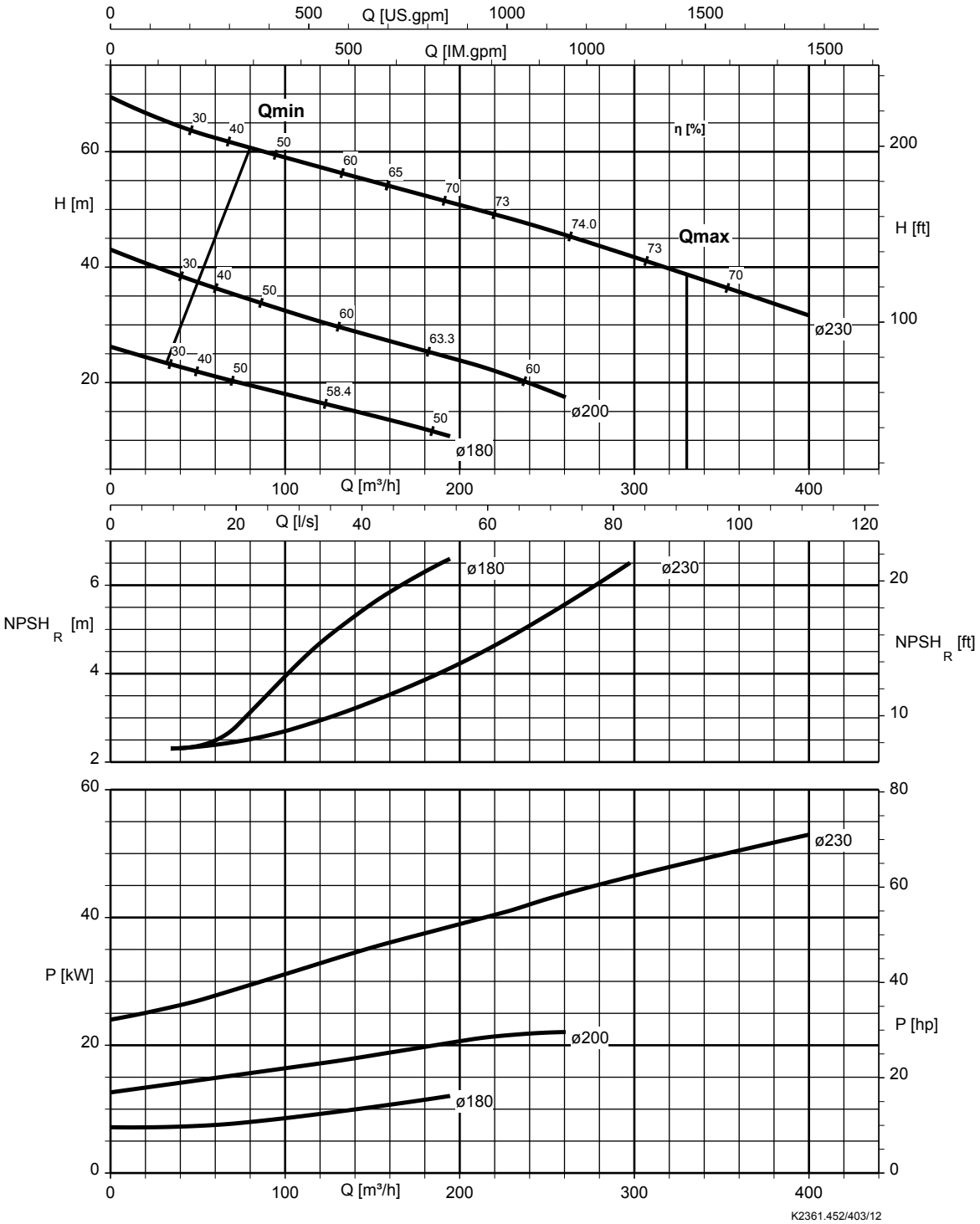
KWP K 080-065-313, n = 2900 t/min



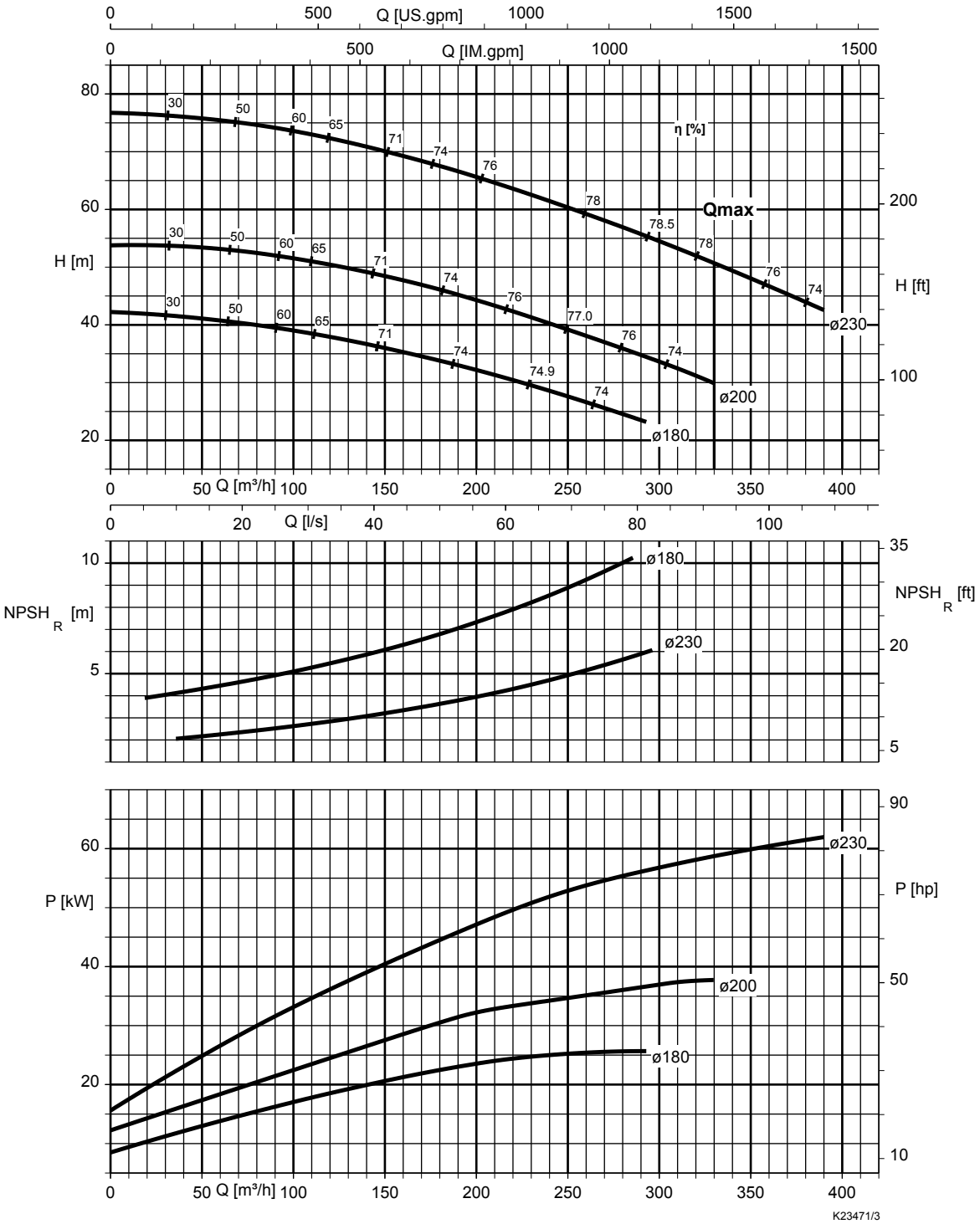
KWP K 100-080-250, n = 2900 t/min



KWP K 125-100-250, n = 2900 t/min

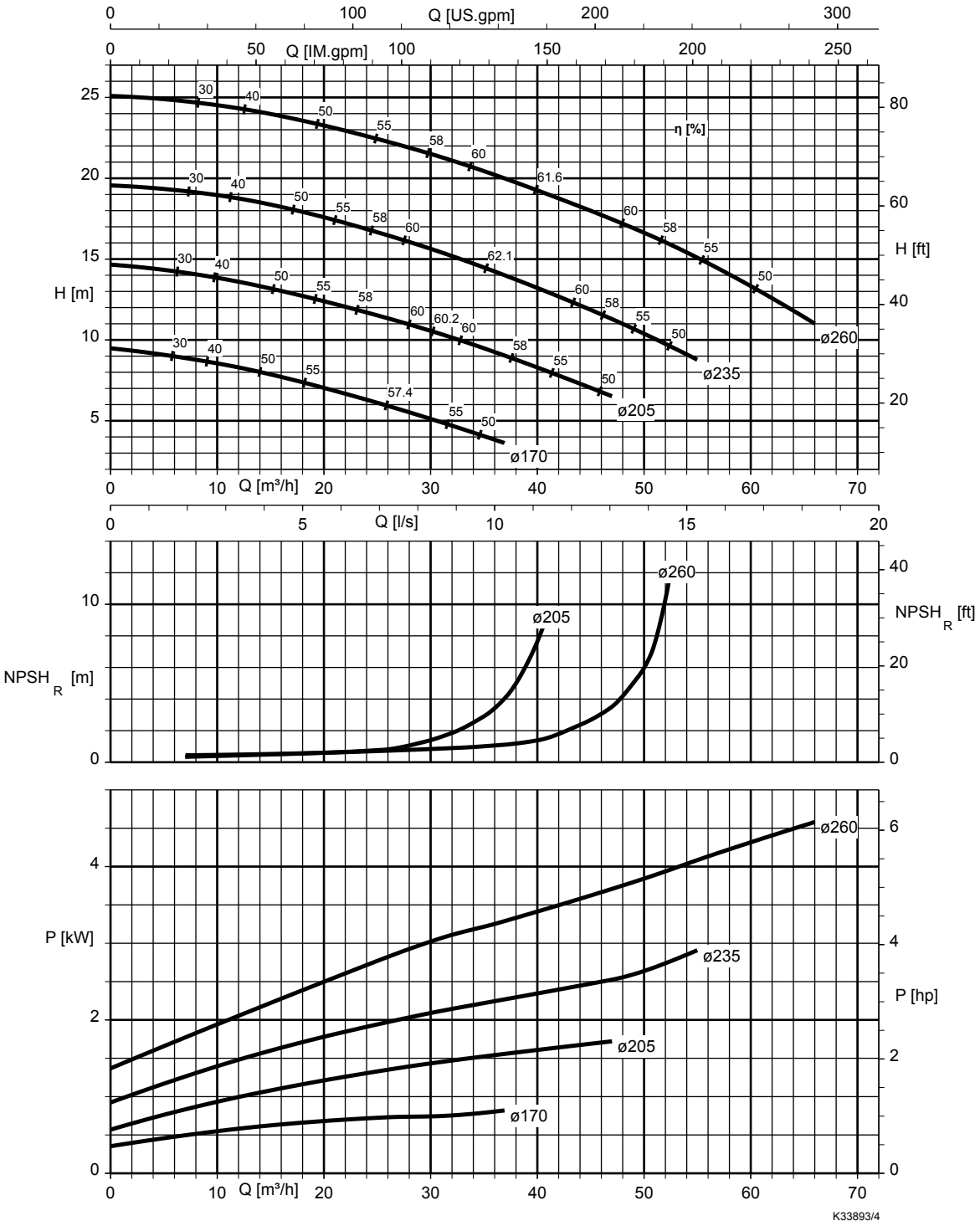


KWP K 125-100-253, n = 2900 t/min

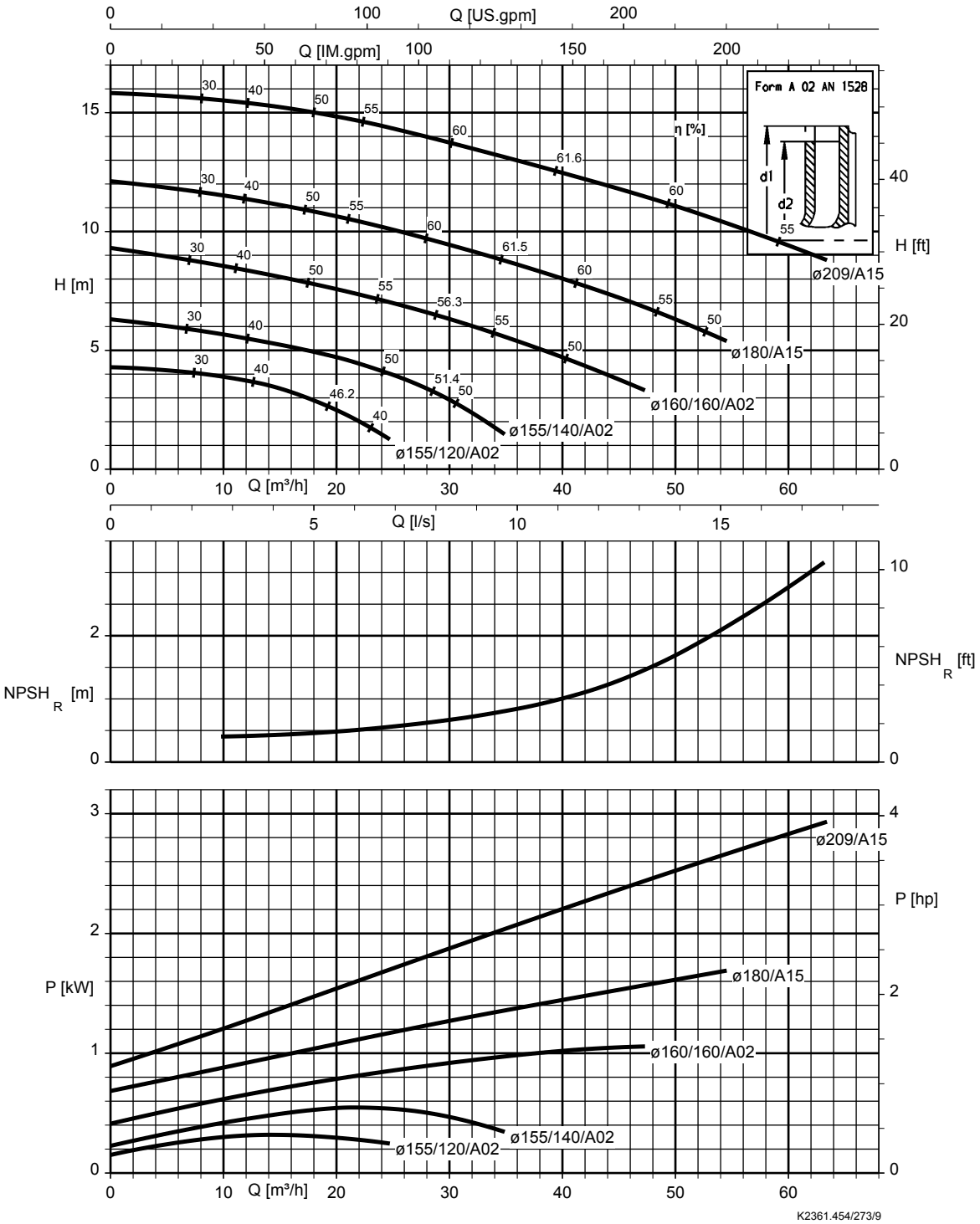


n = 1450 t/min

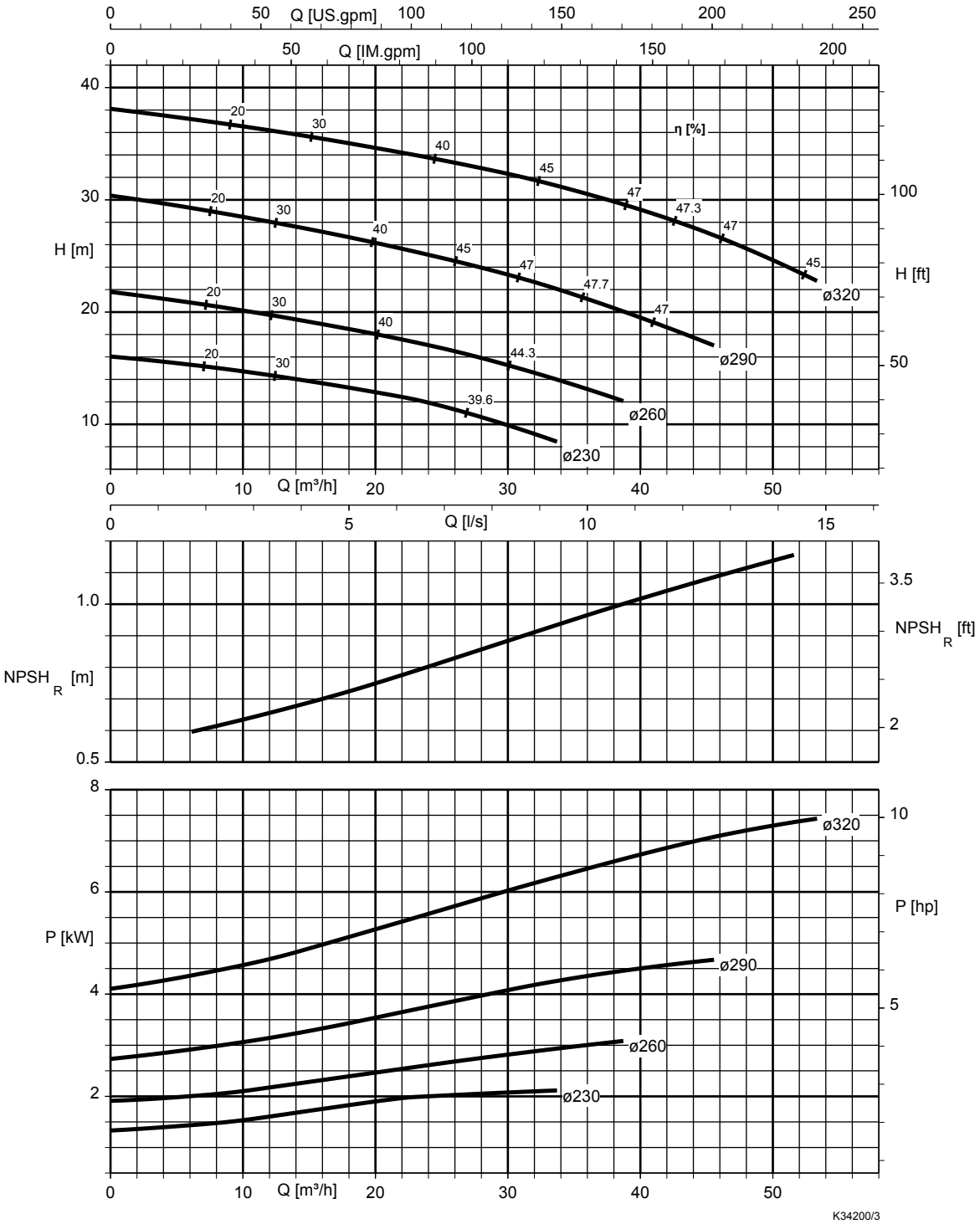
KWP K 065-040-250, n = 1450 t/min



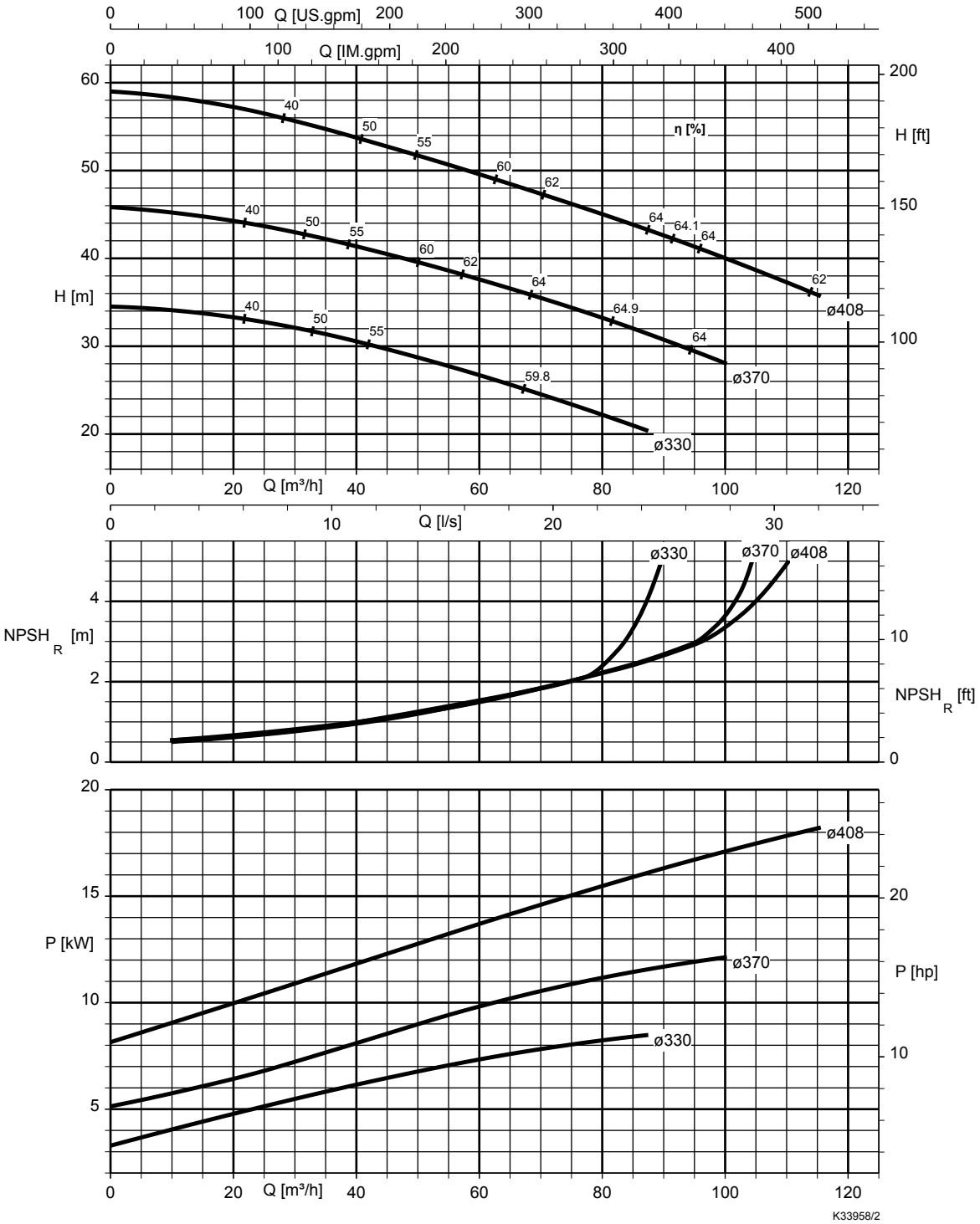
KWP K 065-050-200, n = 1450 t/min



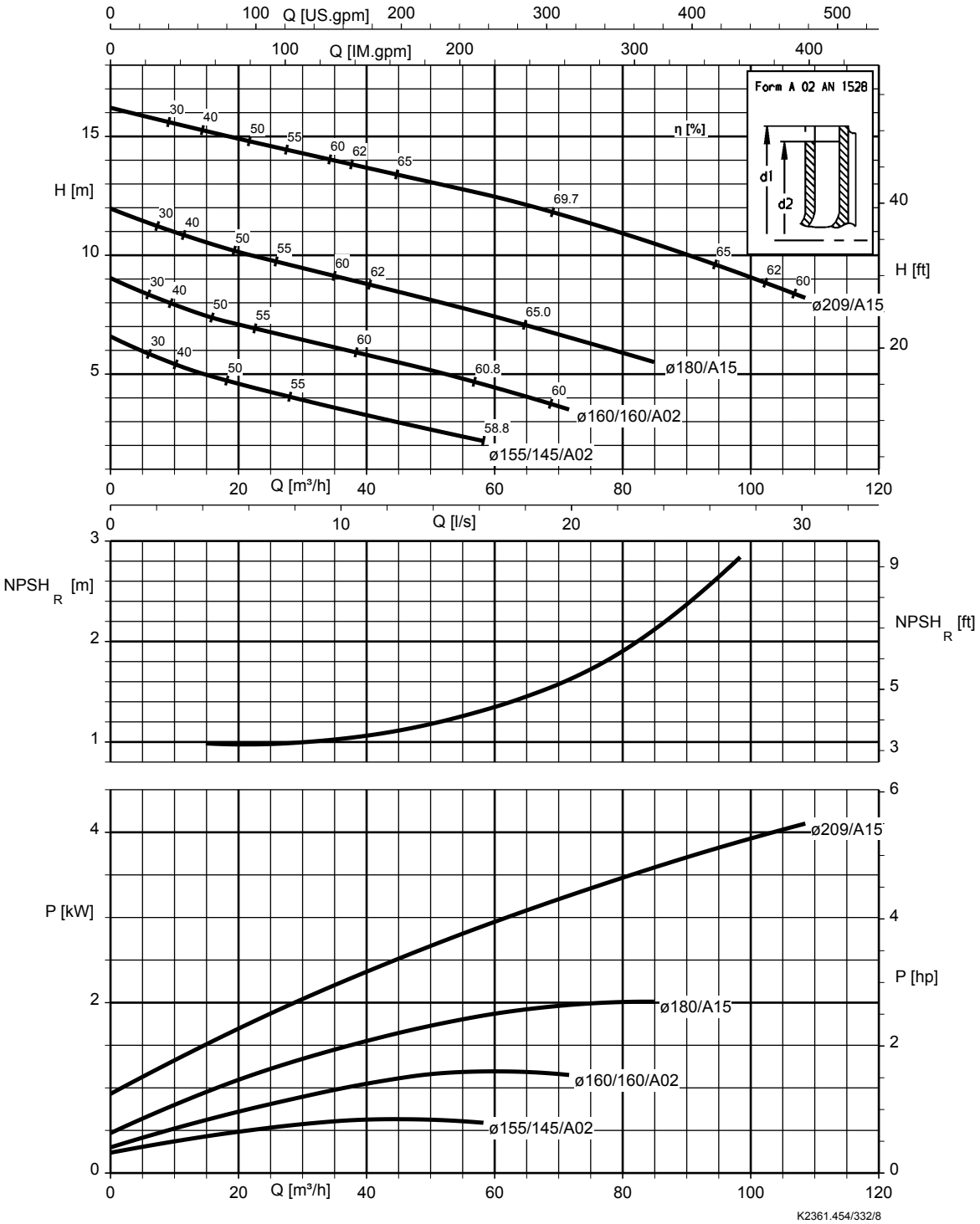
KWP K 080-040-315, n = 1450 t/min



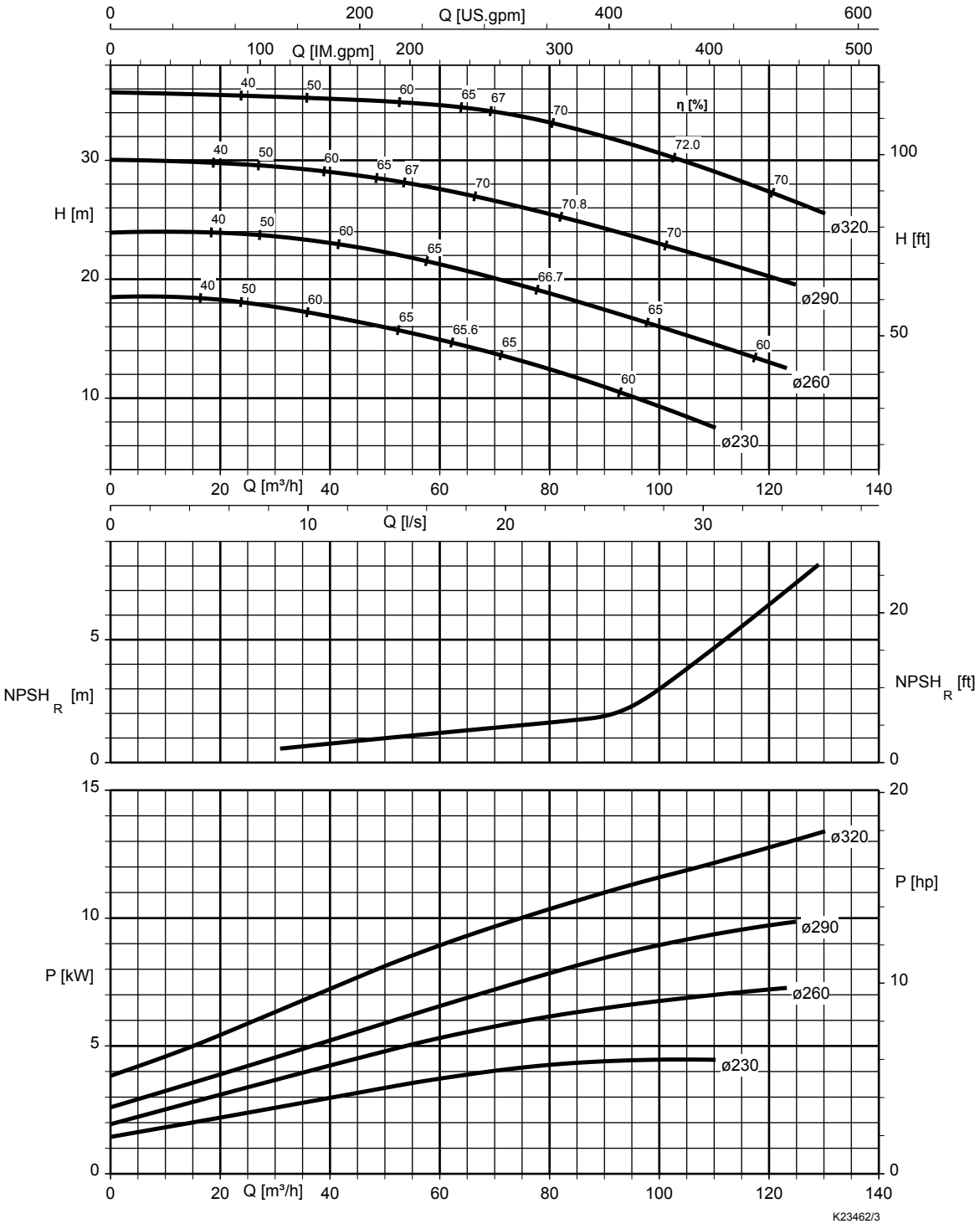
KWP K 080-050-400, n = 1450 t/min



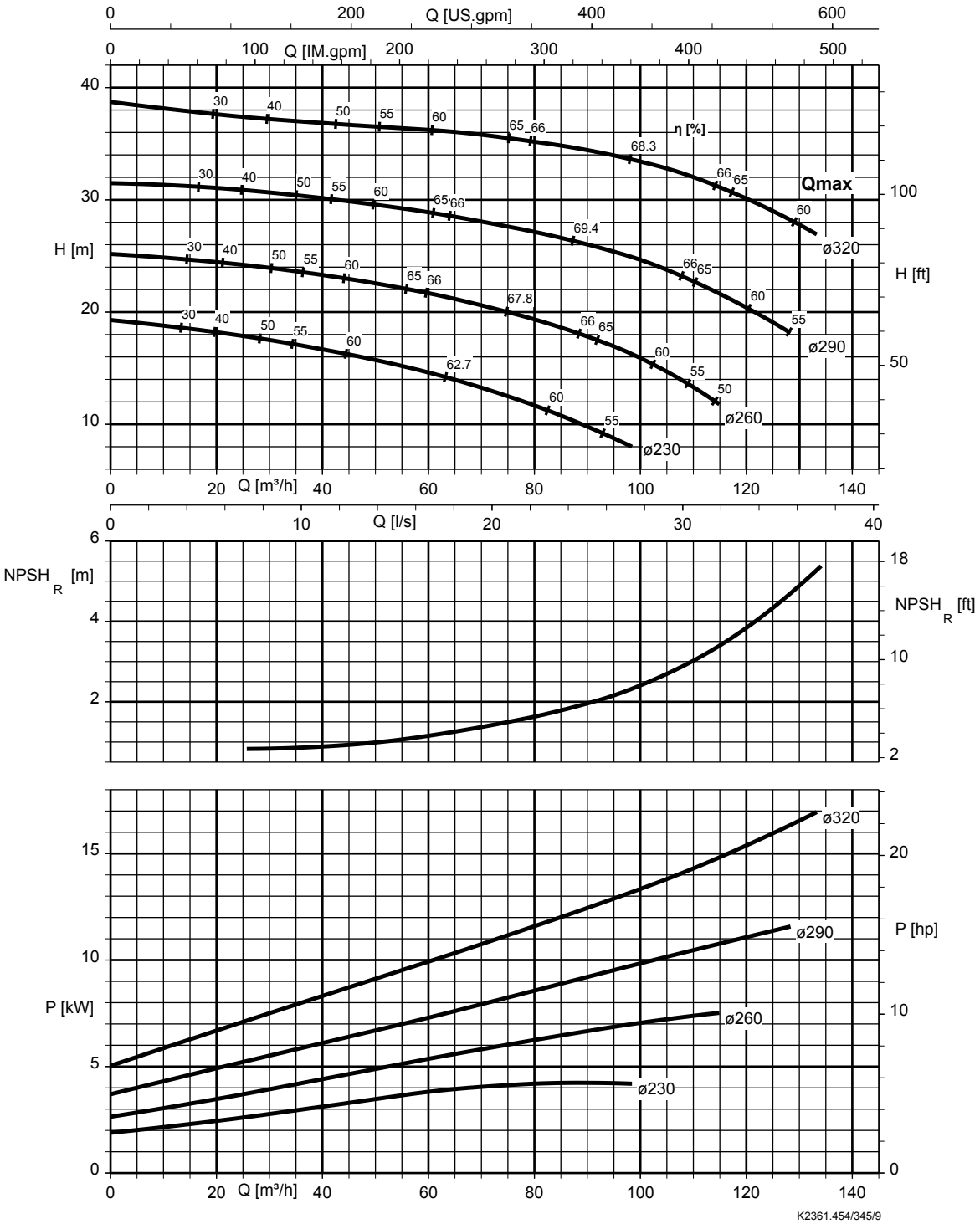
KWP K 080-065-200, n = 1450 t/min



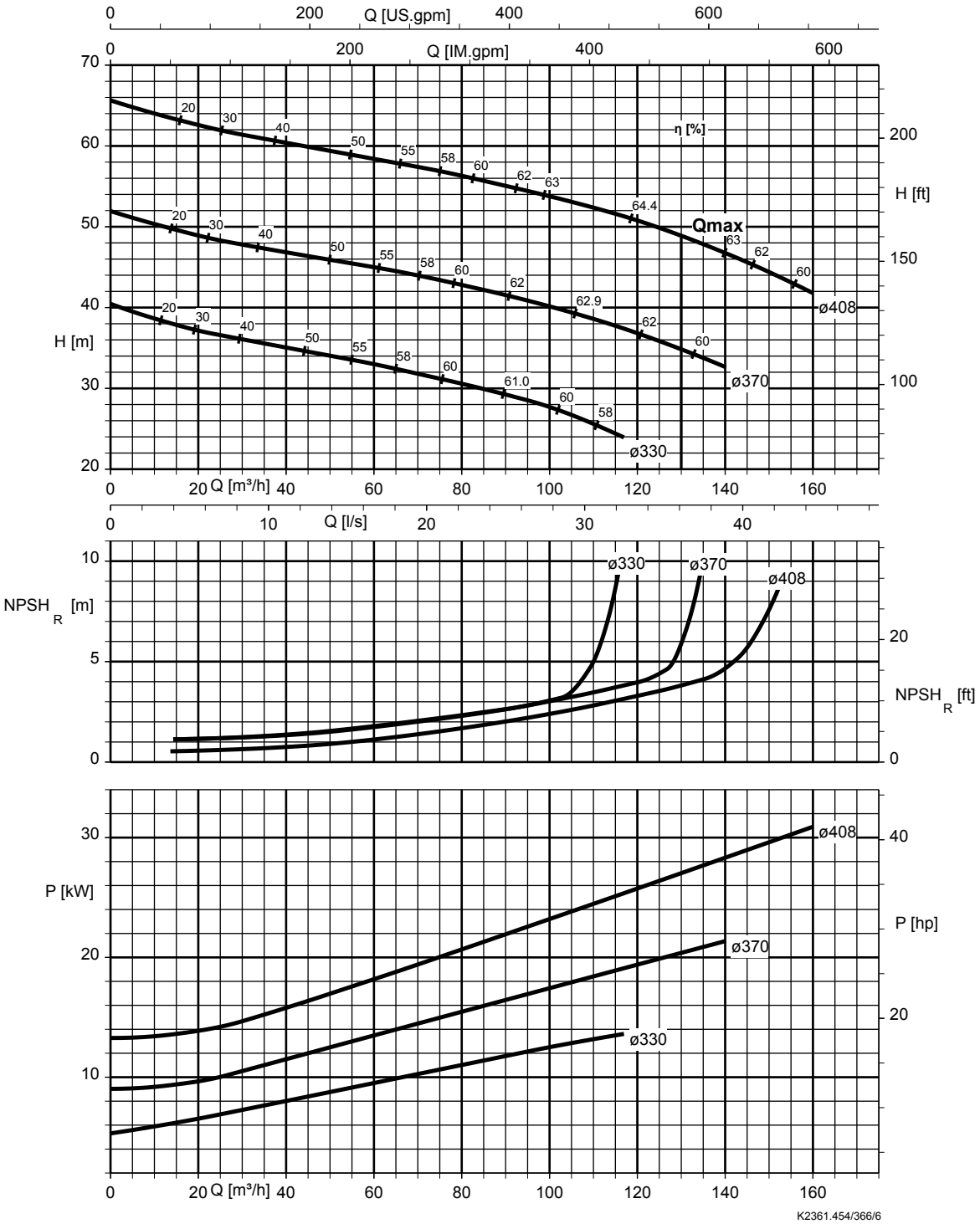
KWP K 080-065-313, n = 1450 t/min



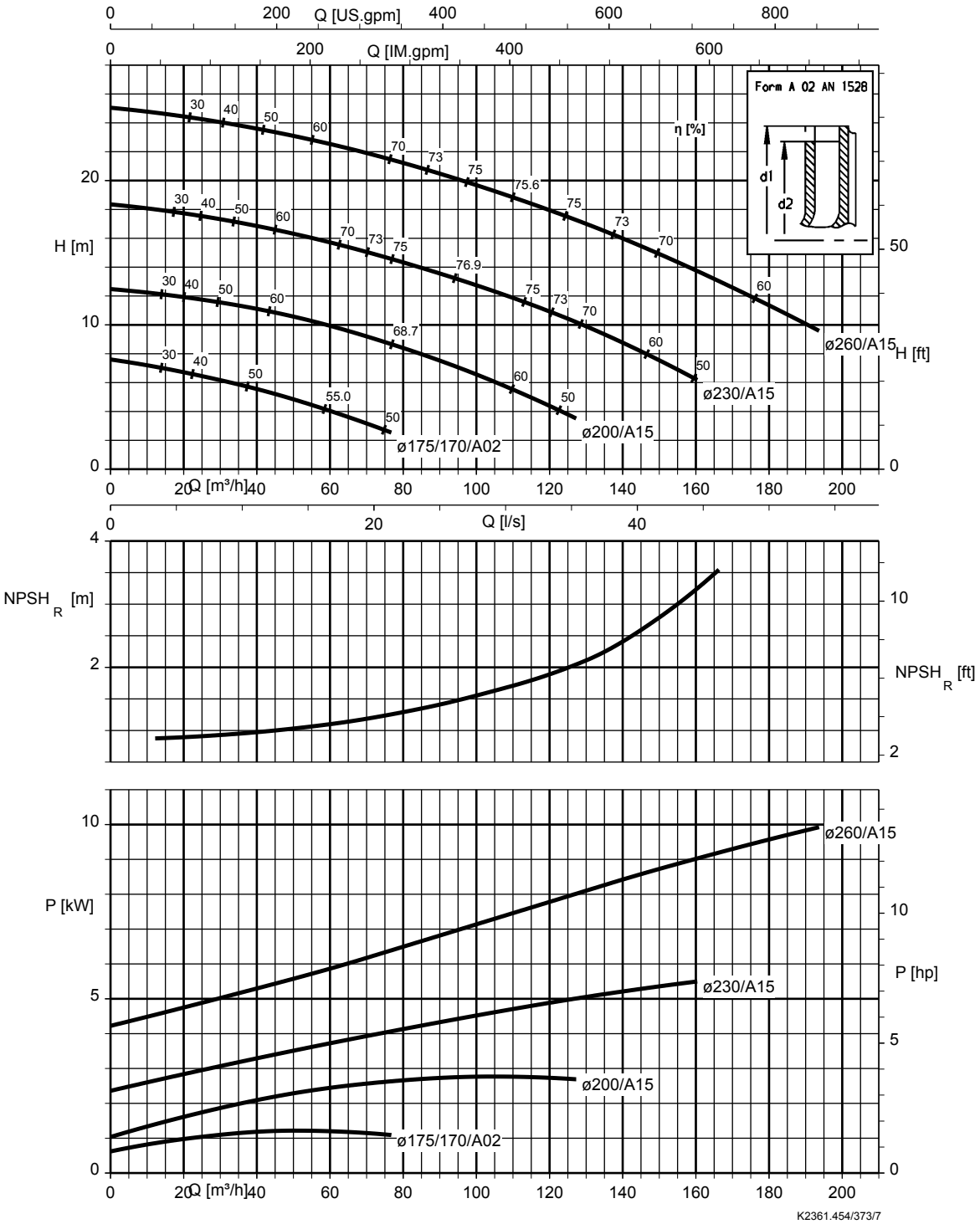
KWP K 080-065-315, n = 1450 t/min



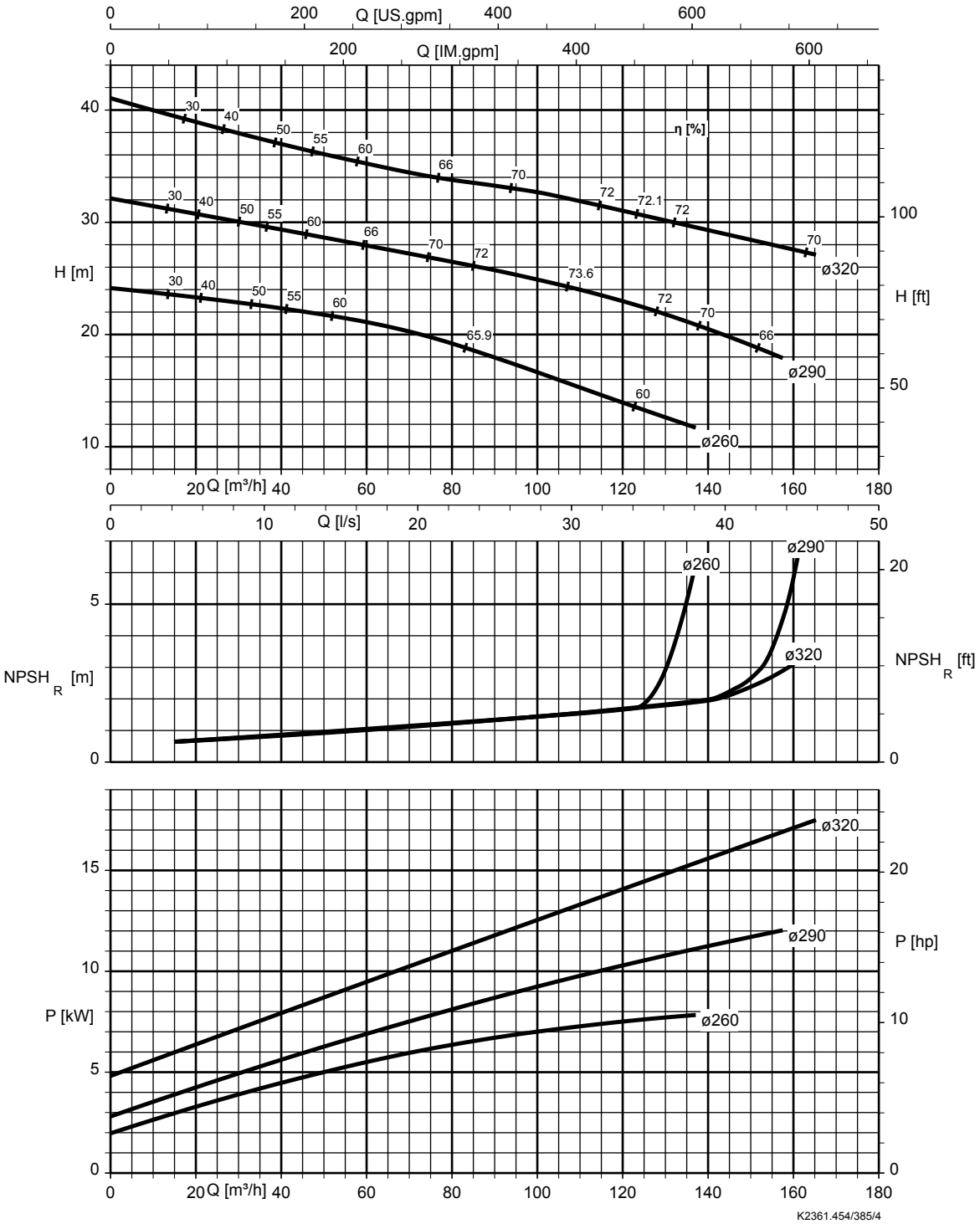
KWP K 080-065-400, n = 1450 t/min



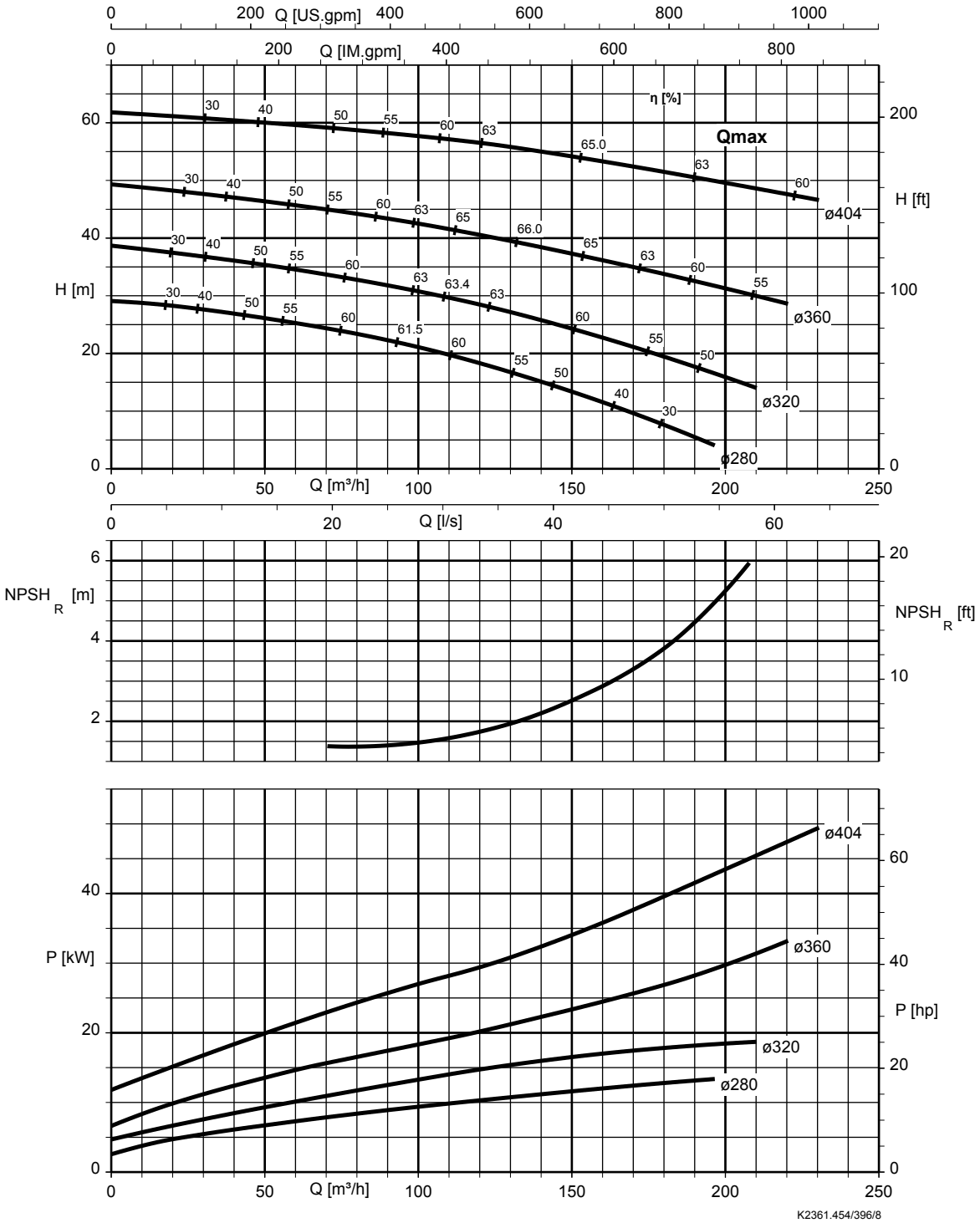
KWP K 100-080-250, n = 1450 t/min



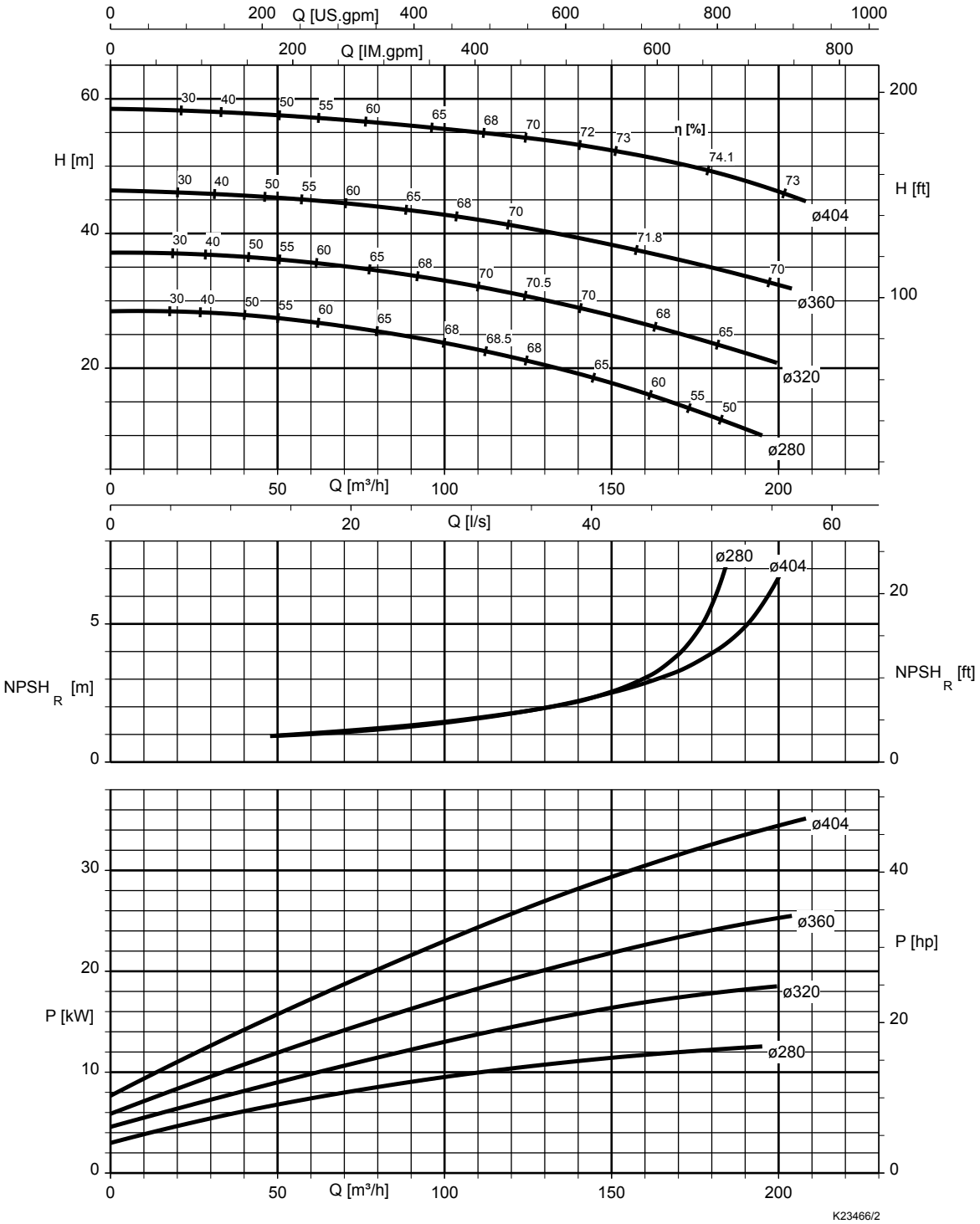
KWP K 100-080-315, n = 1450 t/min



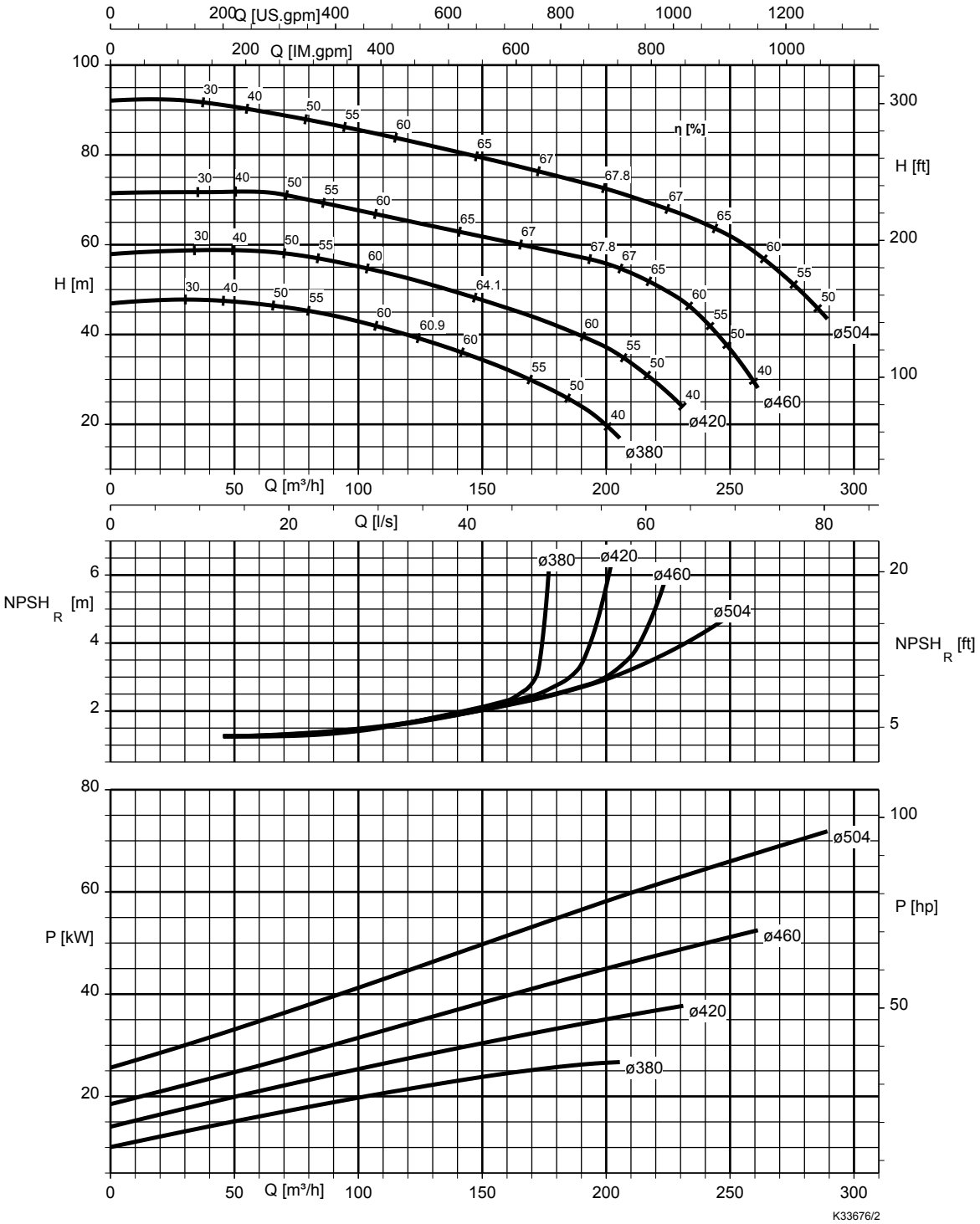
KWP K 100-080-400, n = 1450 t/min



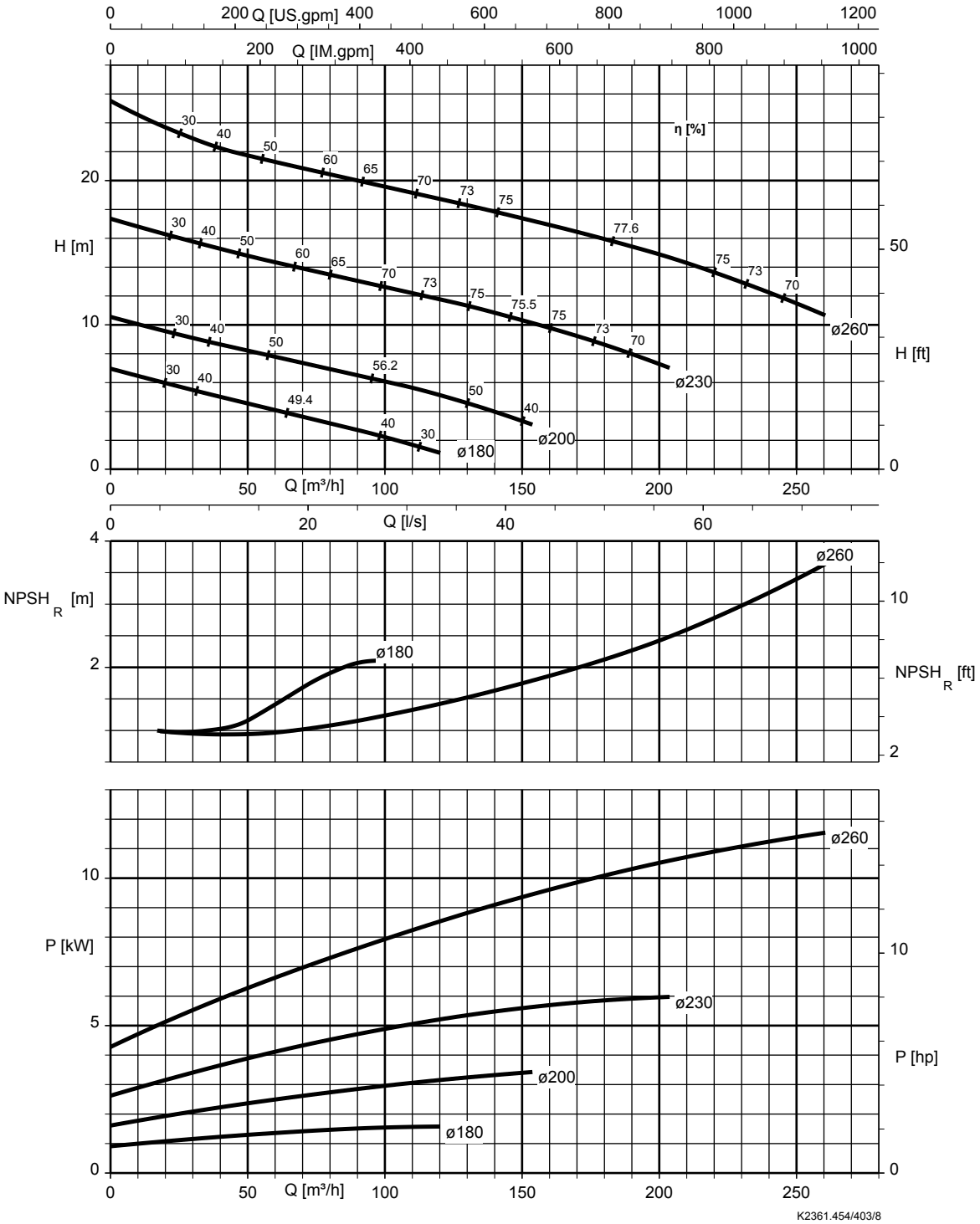
KWP K 100-080-403, n = 1450 t/min



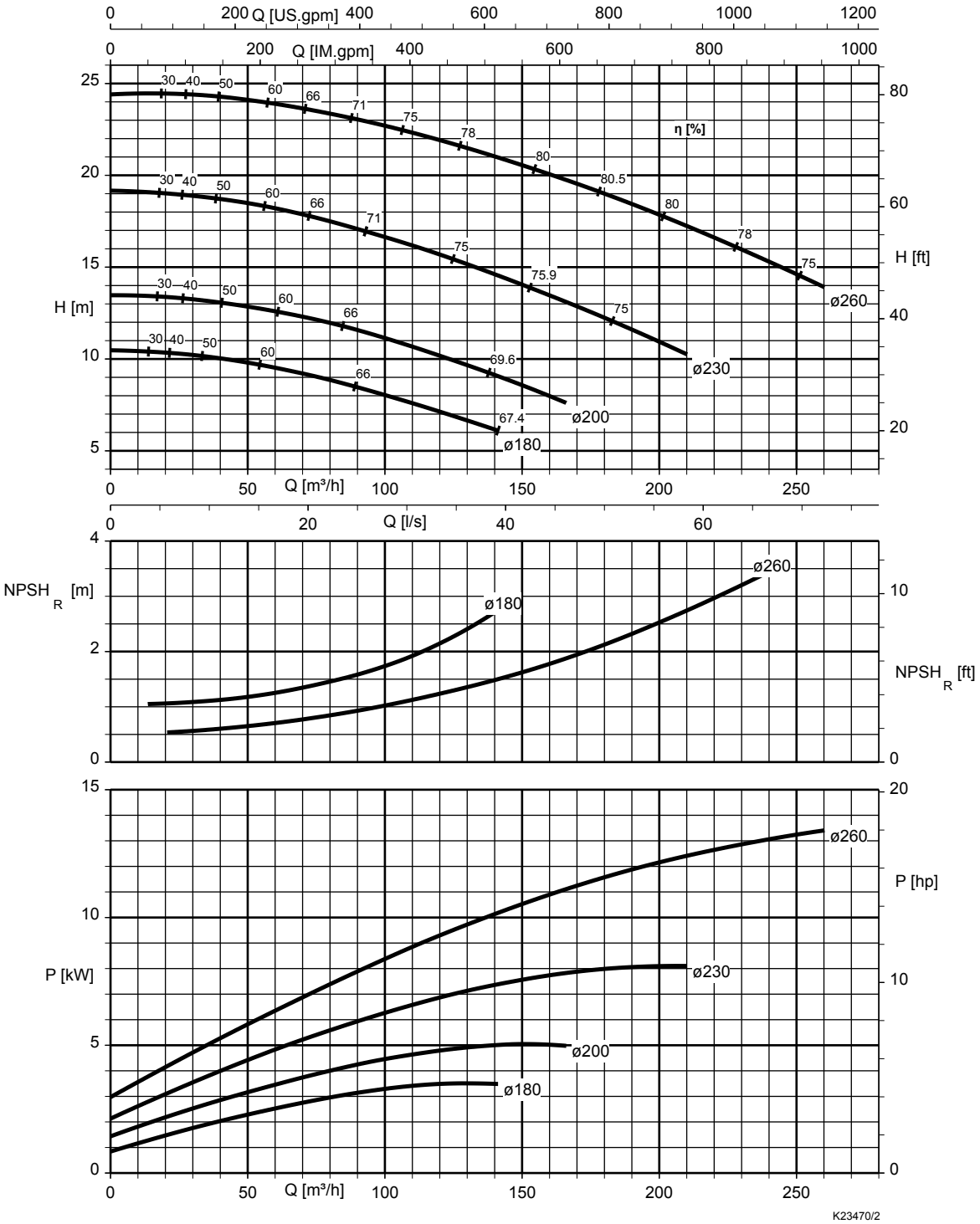
KWP K 125-080-500, n = 1450 t/min



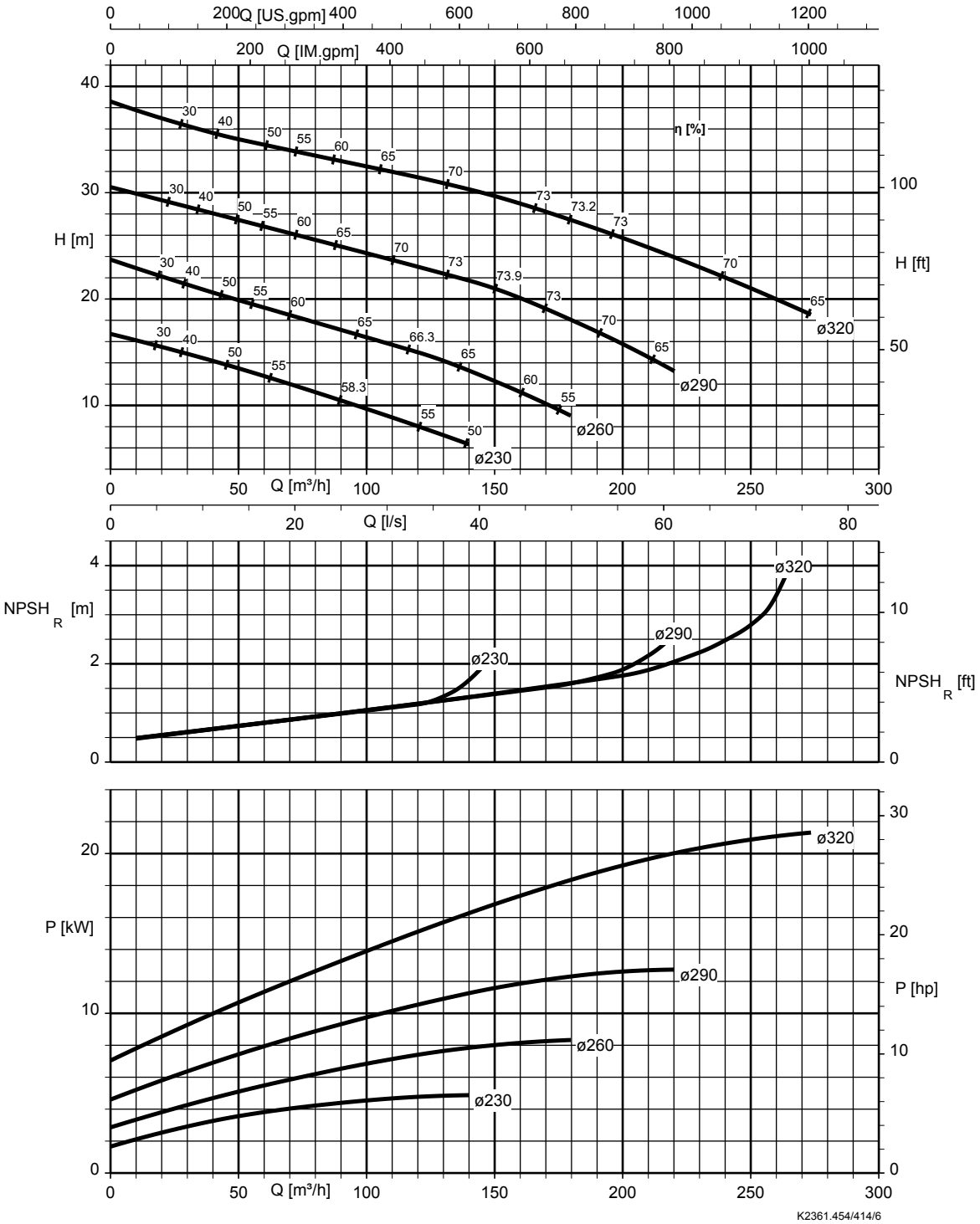
KWP K 125-100-250, n = 1450 t/min



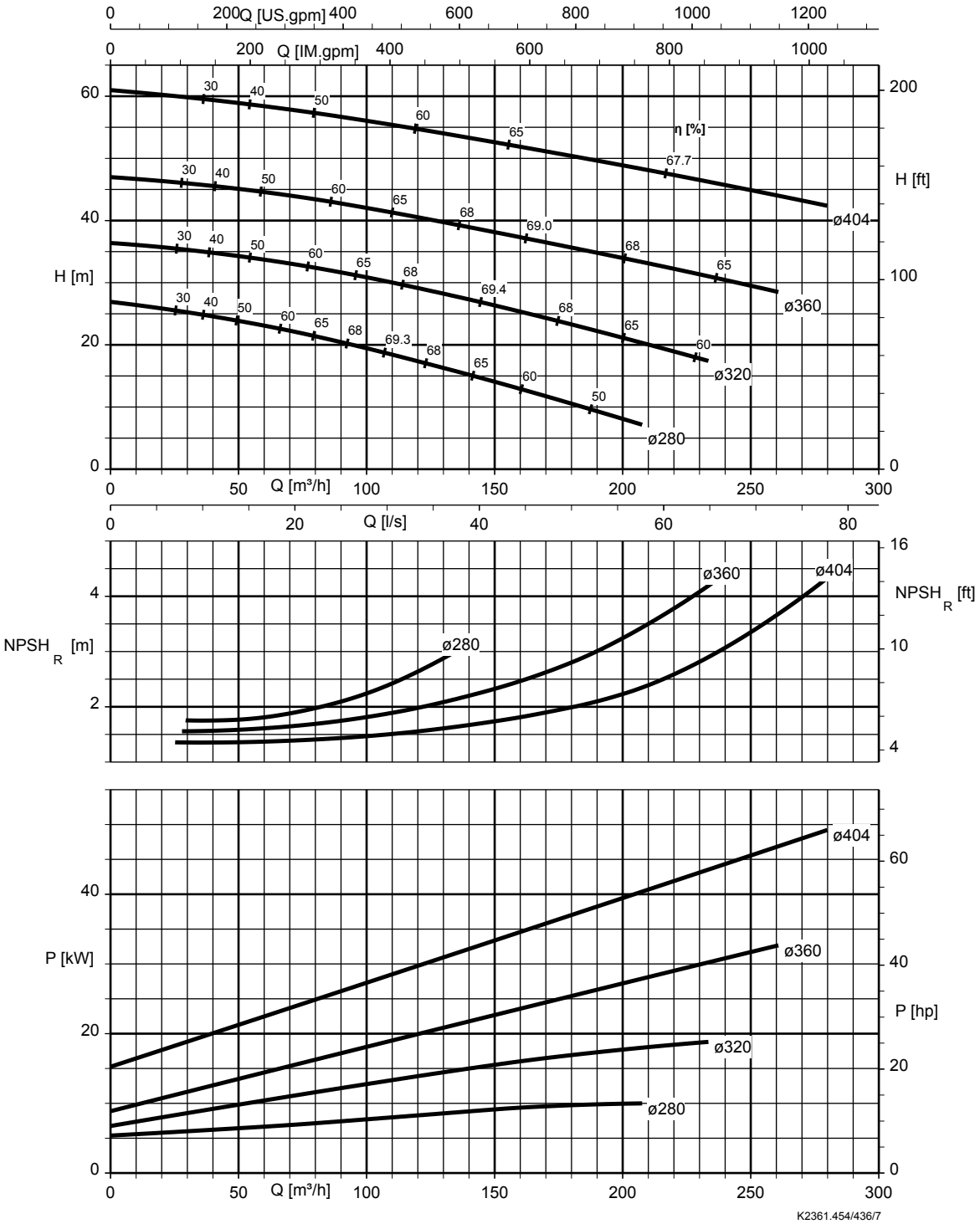
KWP K 125-100-253, n = 1450 t/min



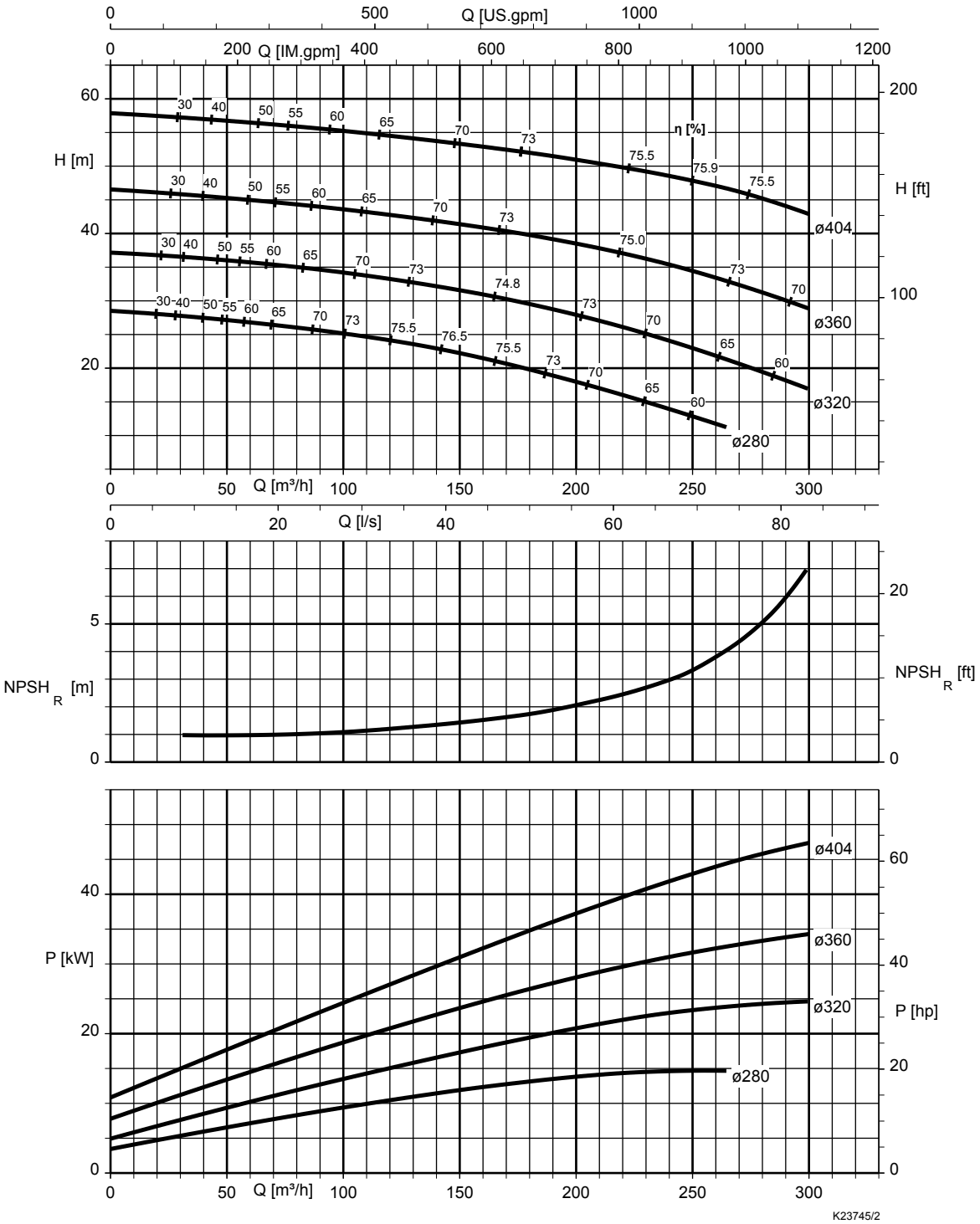
KWP K 125-100-315, n = 1450 t/min



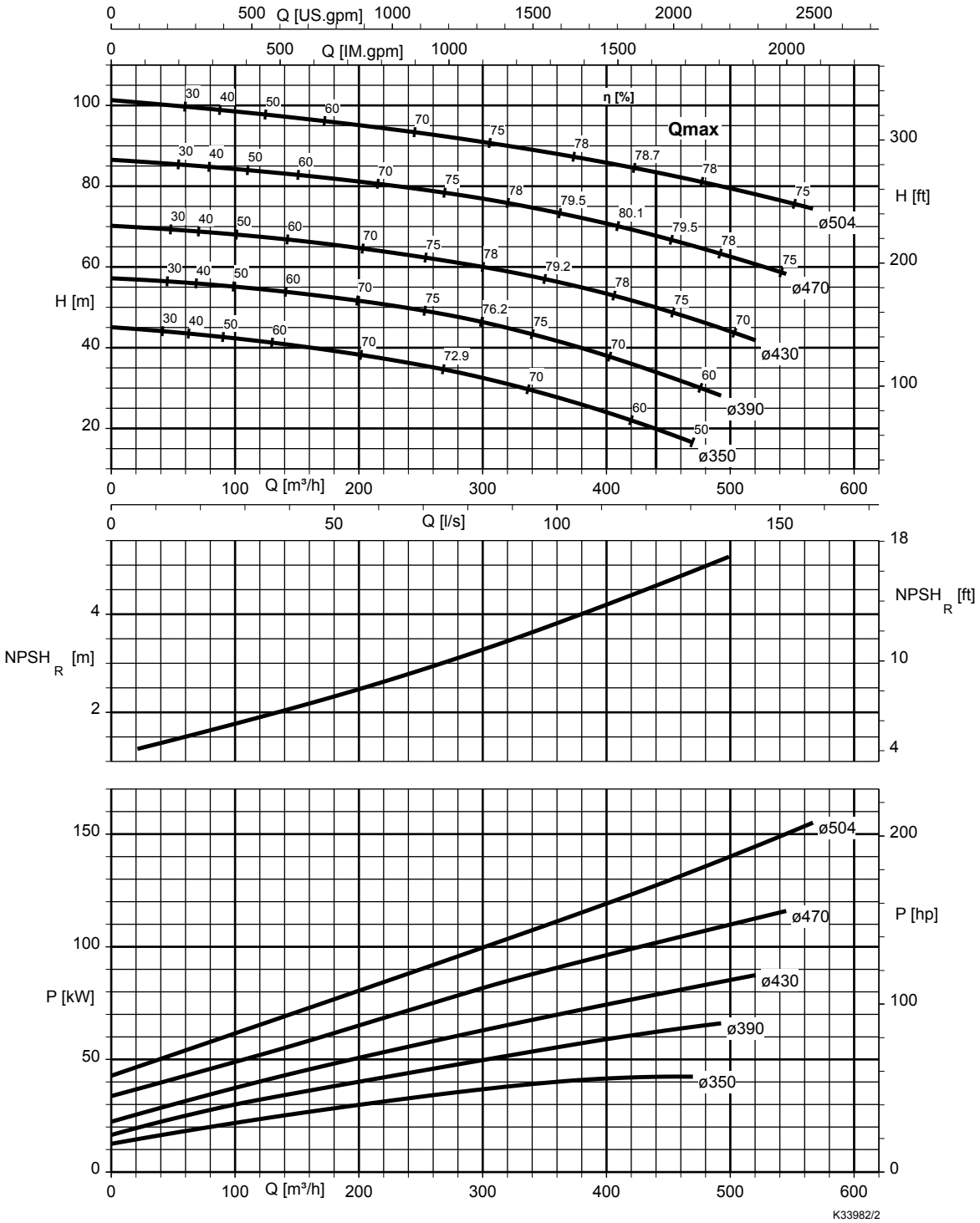
KWP K 125-100-400, n = 1450 t/min



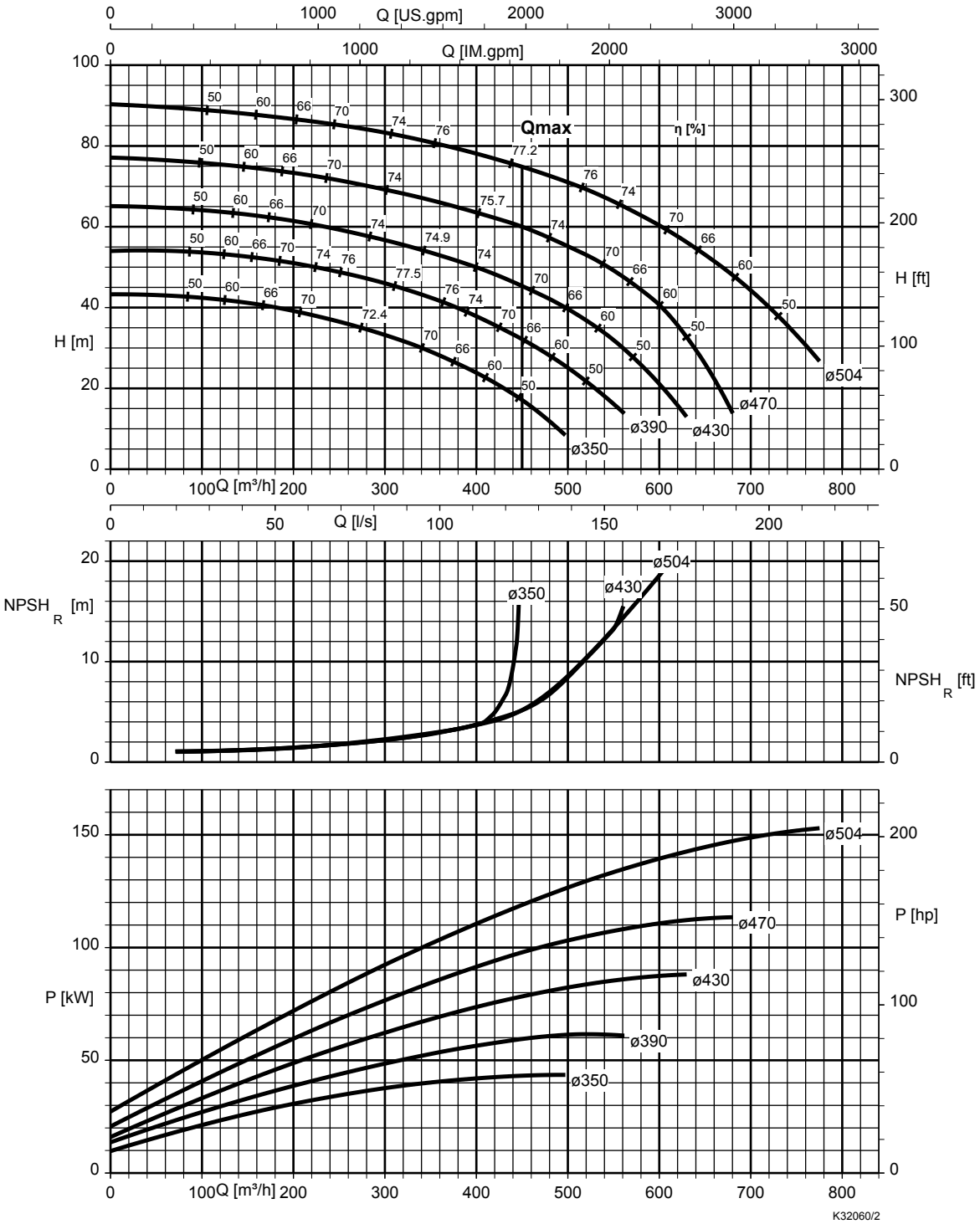
KWP K 125-100-403, n = 1450 t/min



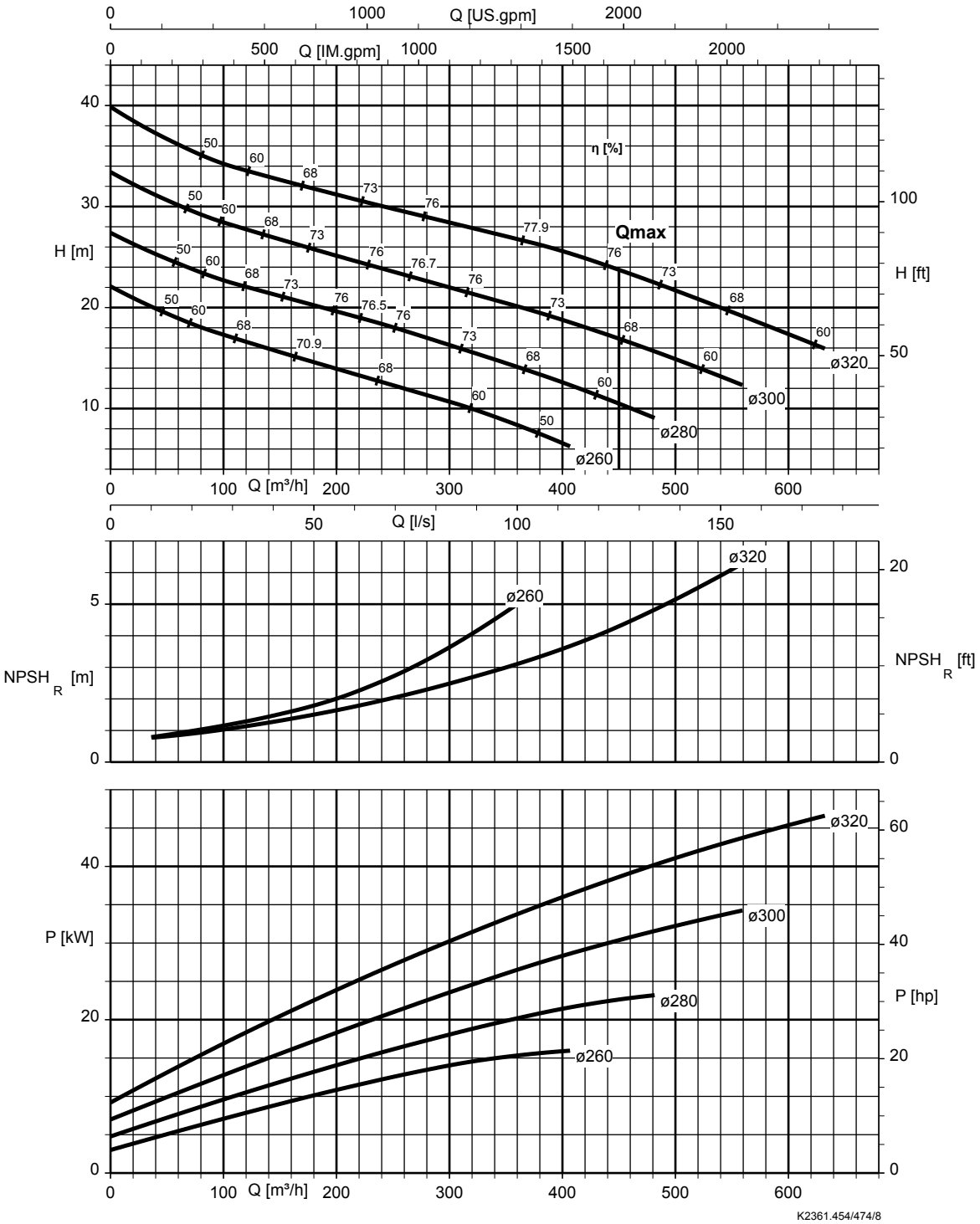
KWP K 150-125-500, n = 1450 t/min



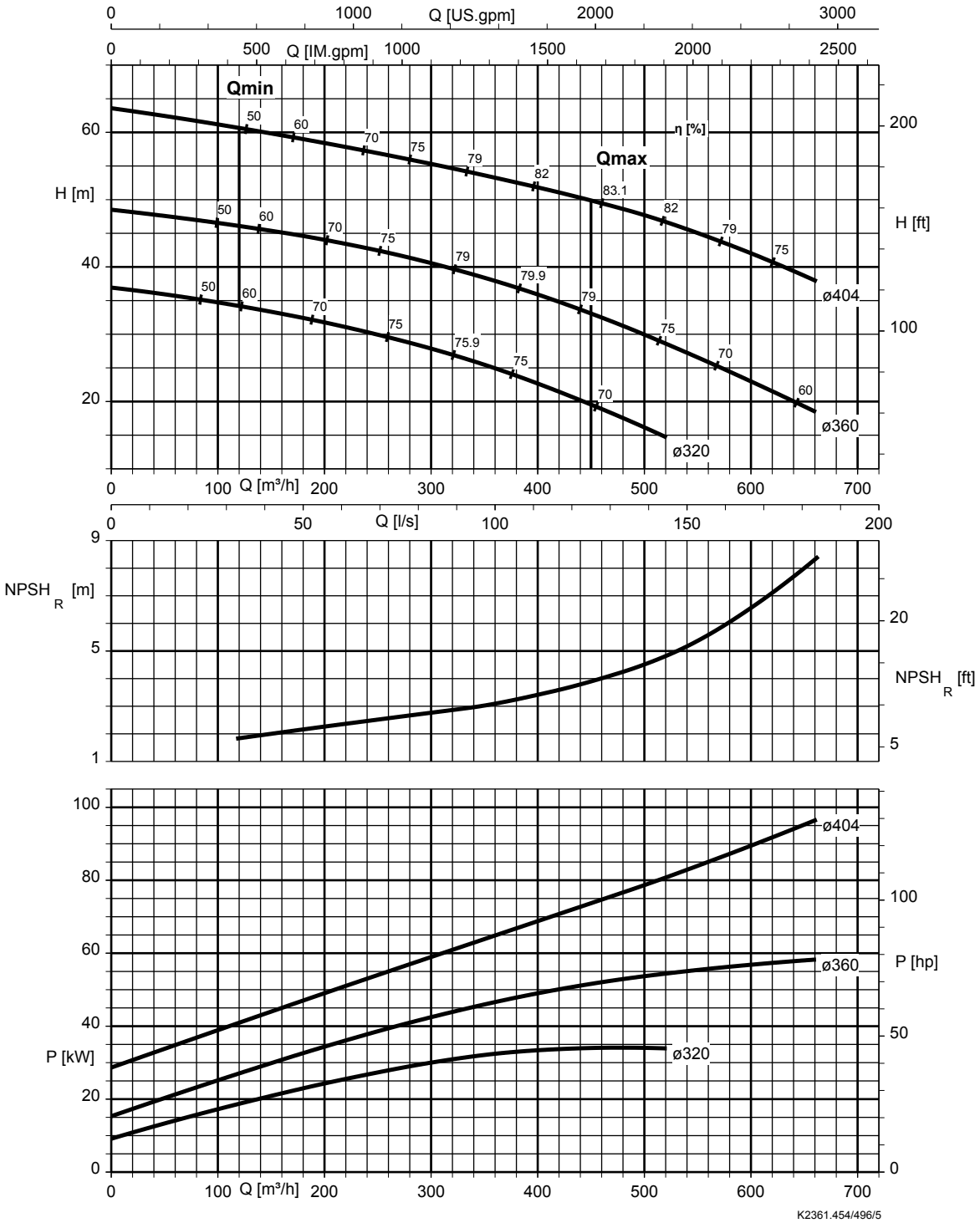
KWP K 150-125-503, n = 1450 t/min



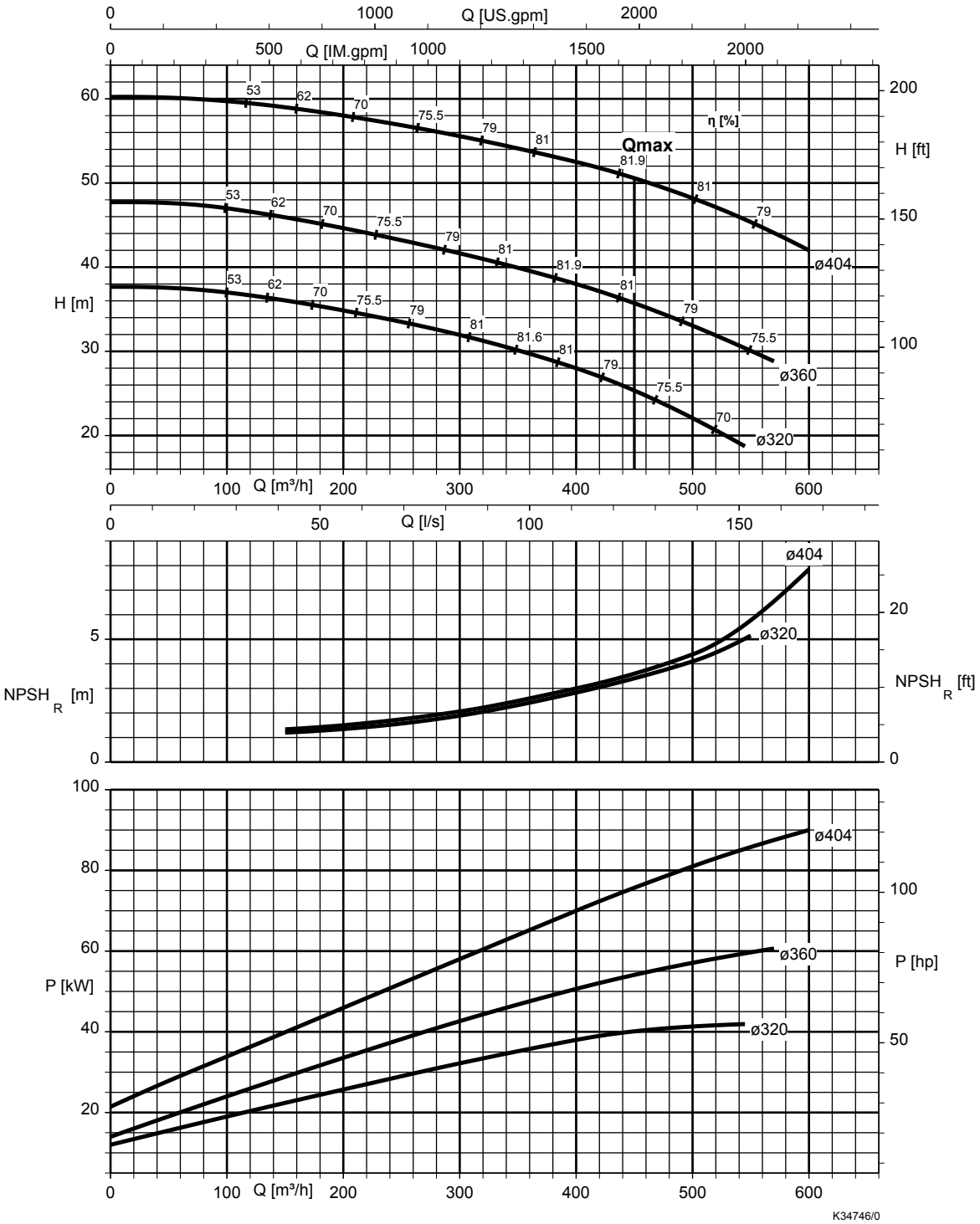
KWP K 150-150-315, n = 1450 t/min



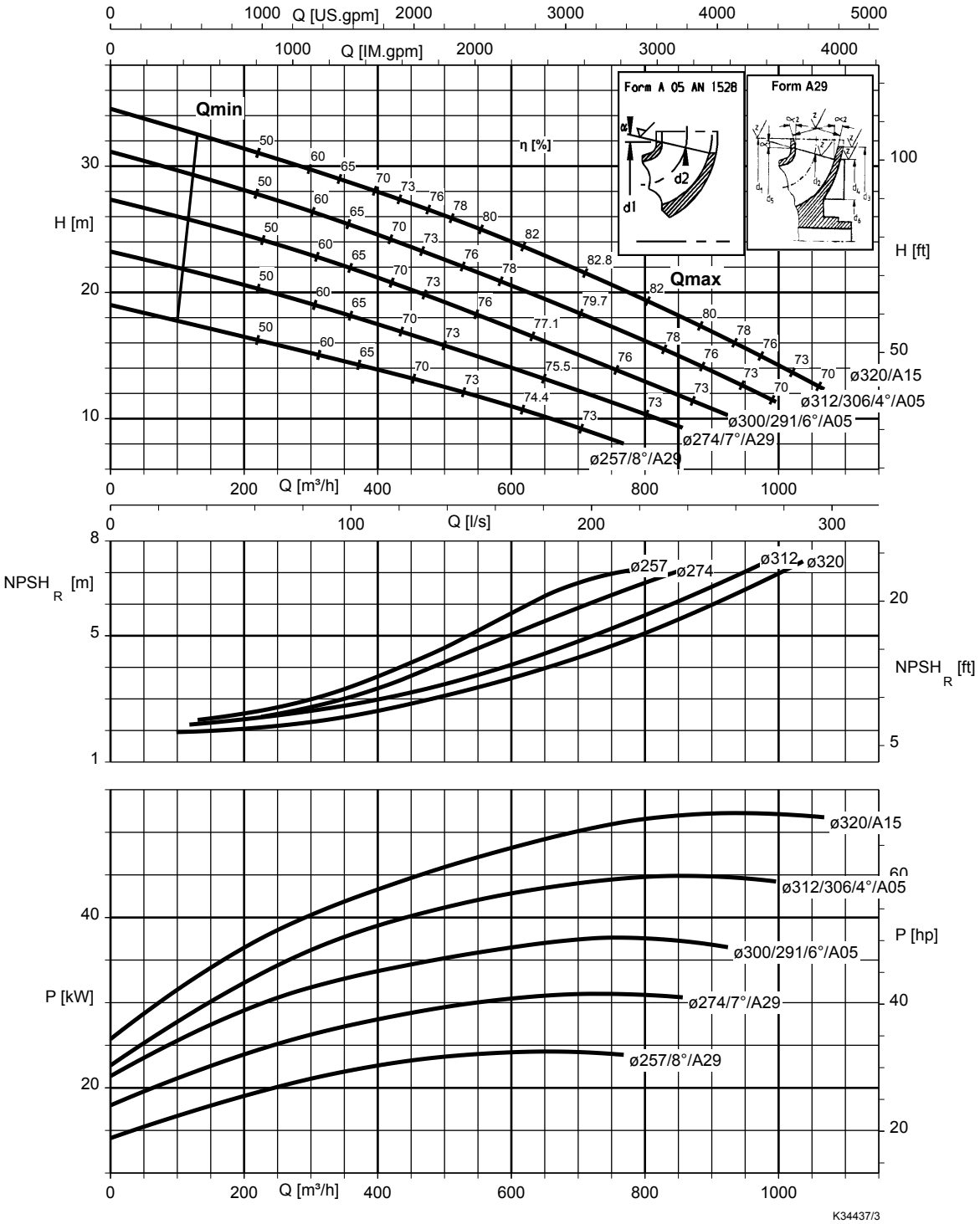
KWP K 150-150-400, n = 1450 t/min



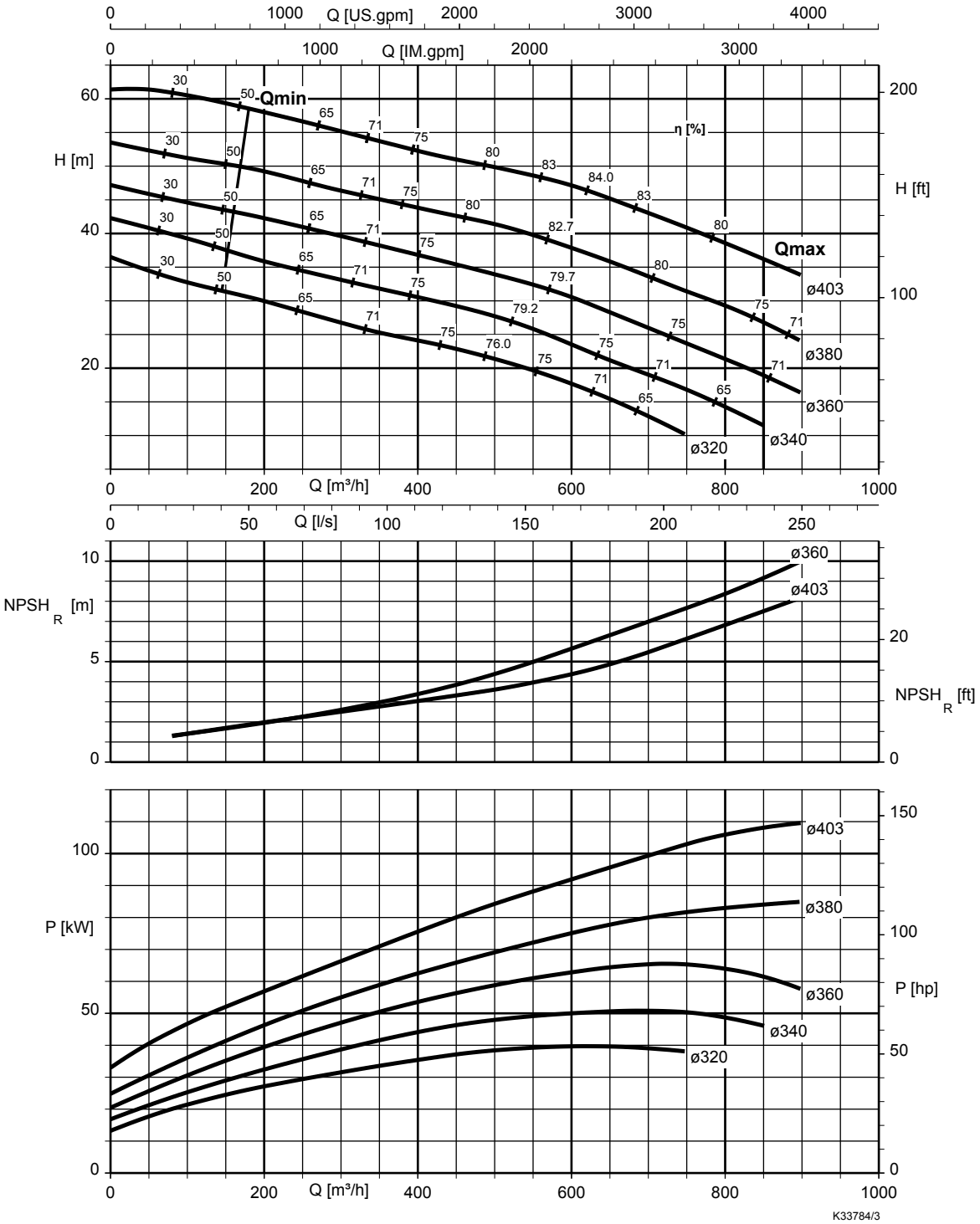
KWP K 150-150-403, n = 1450 t/min



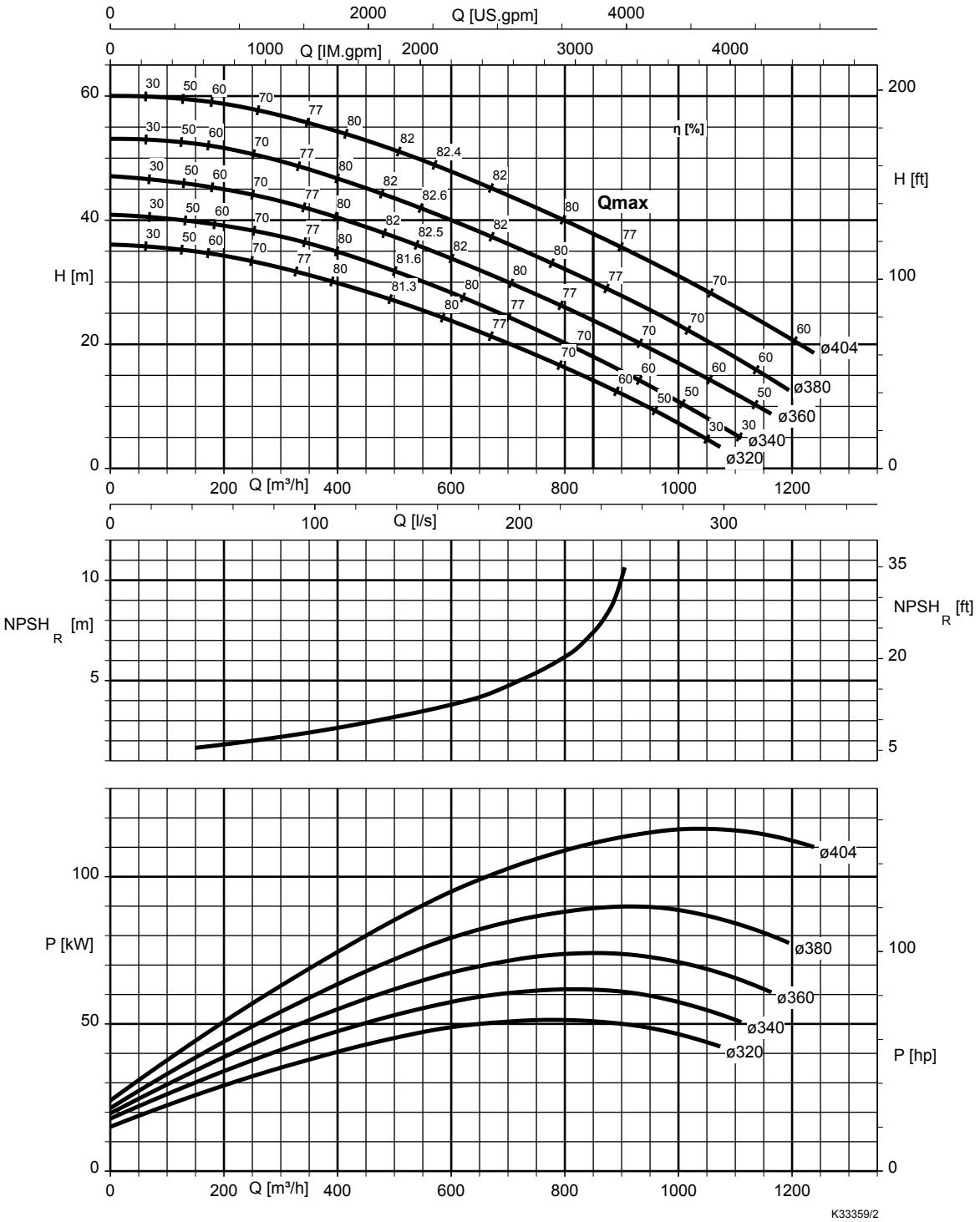
KWP K 200-200-320, n = 1450 t/min



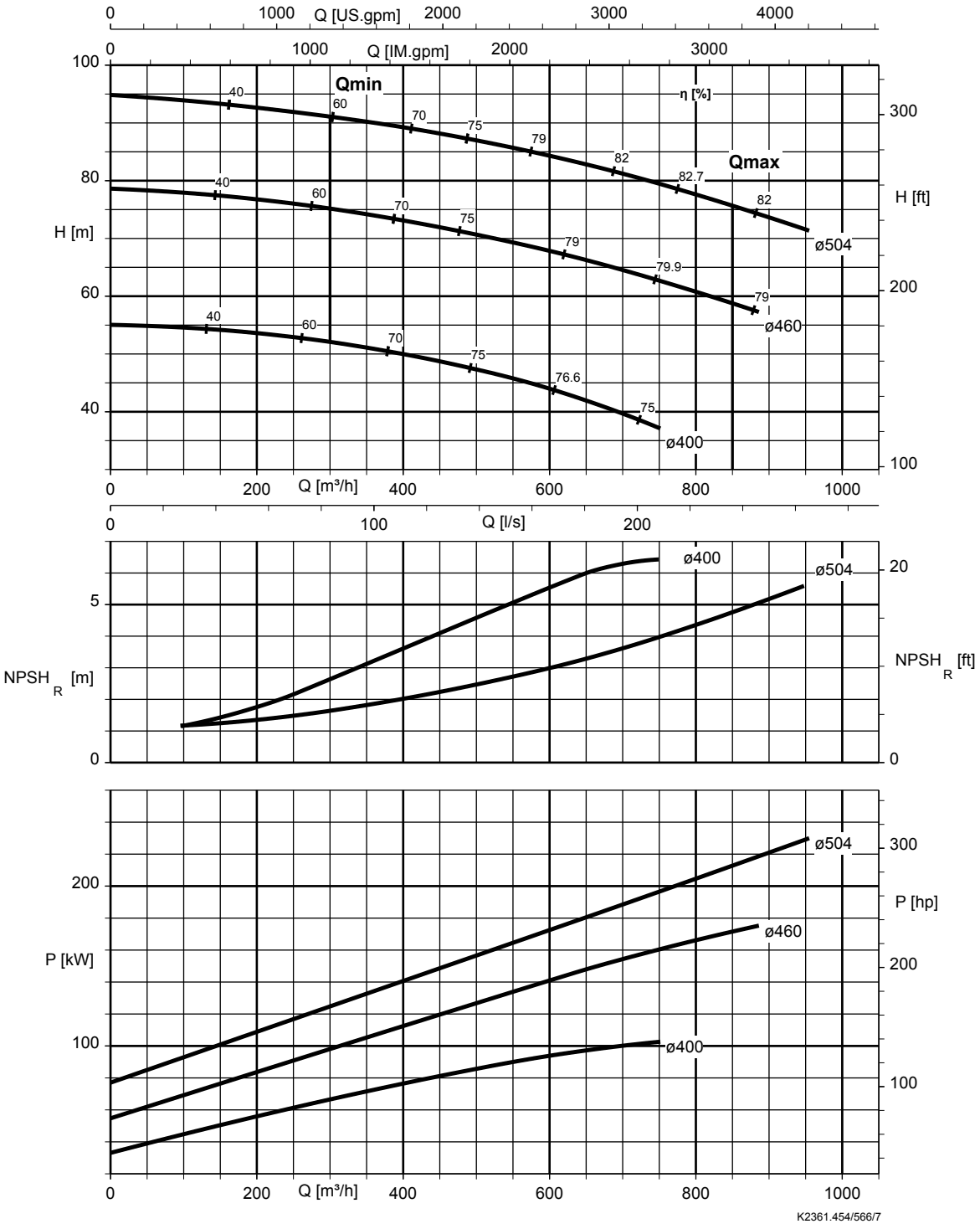
KWP K 200-200-400, n = 1450 t/min



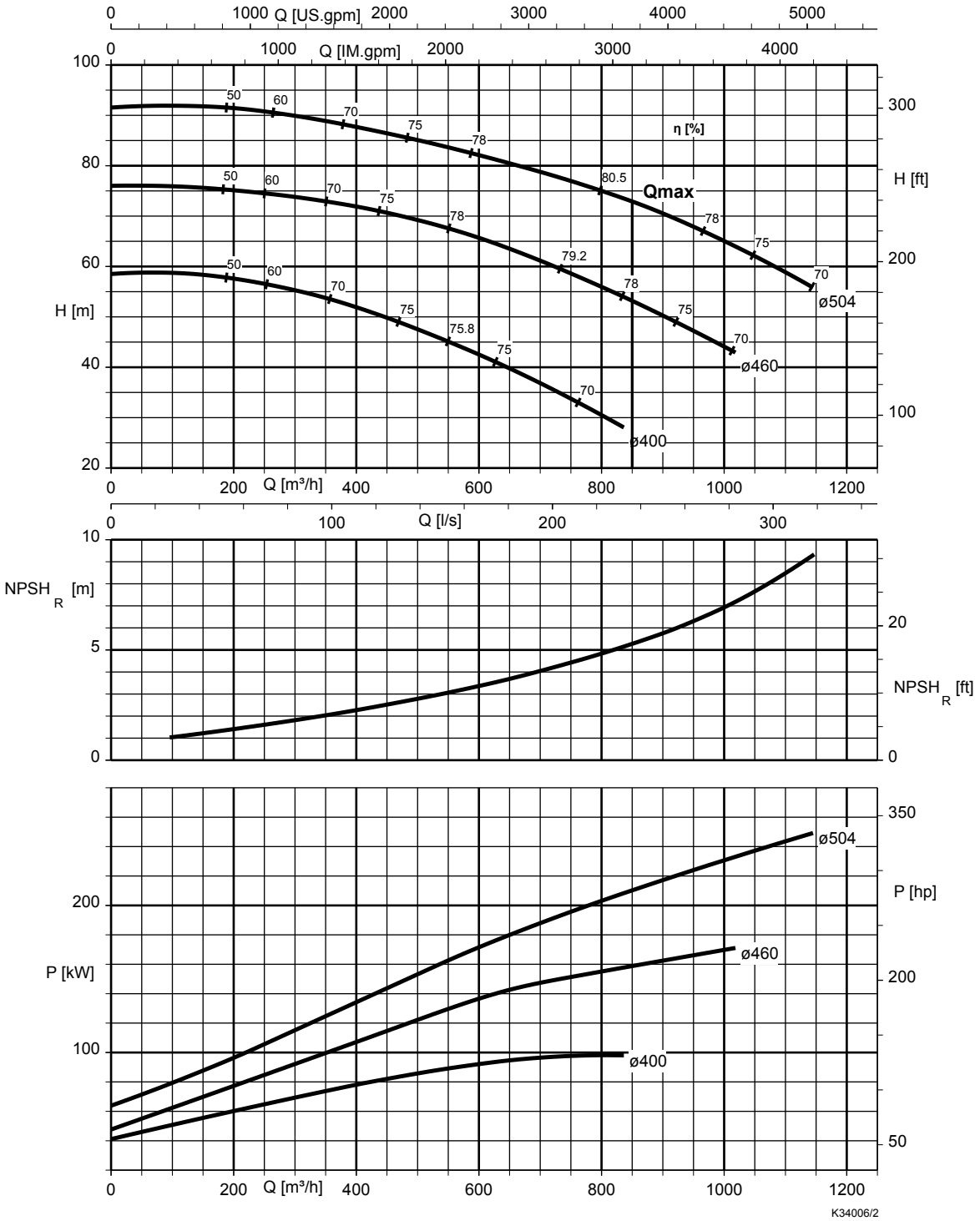
KWP K 200-200-403, n = 1450 t/min



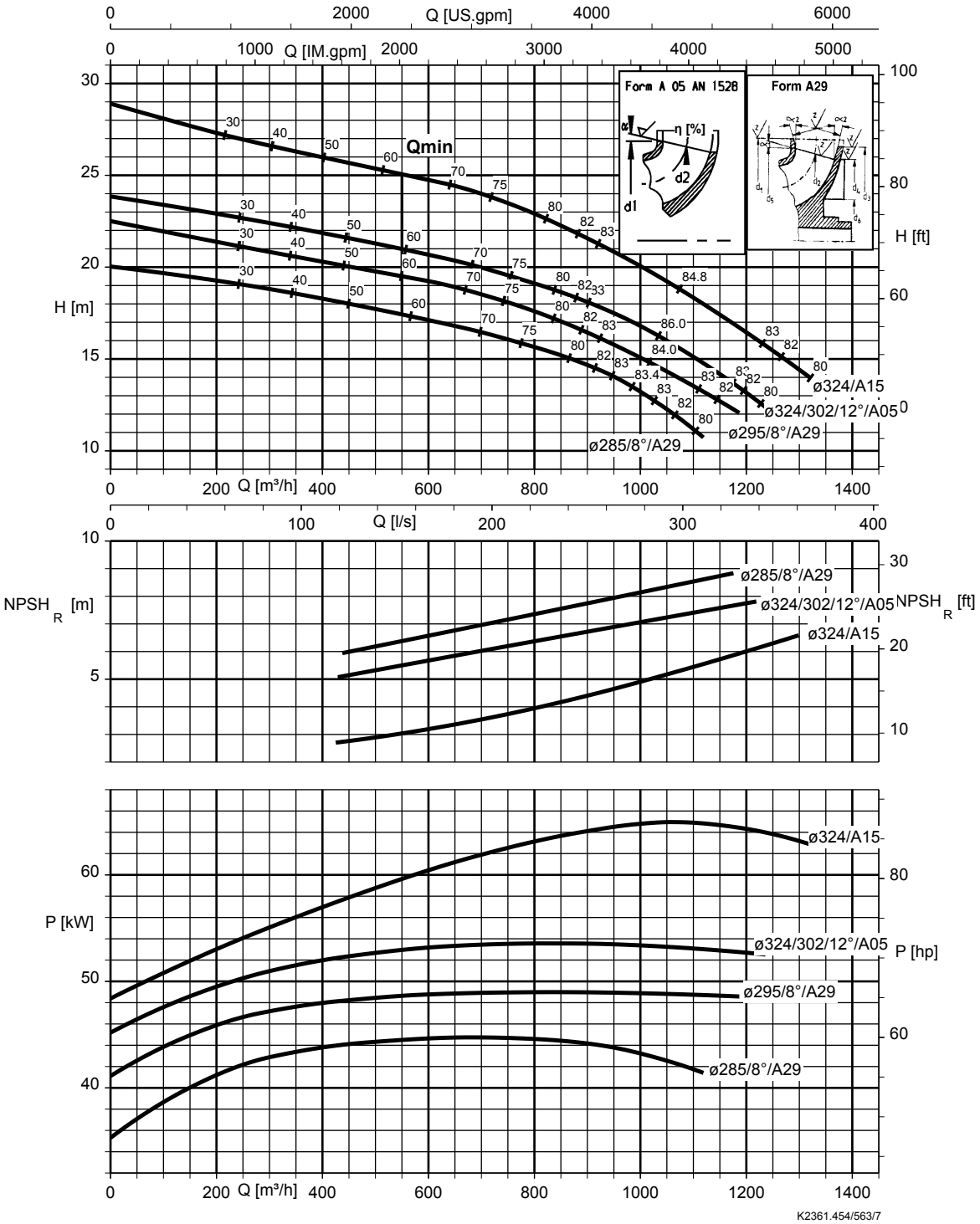
KWP K 200-200-500, n = 1450 t/min



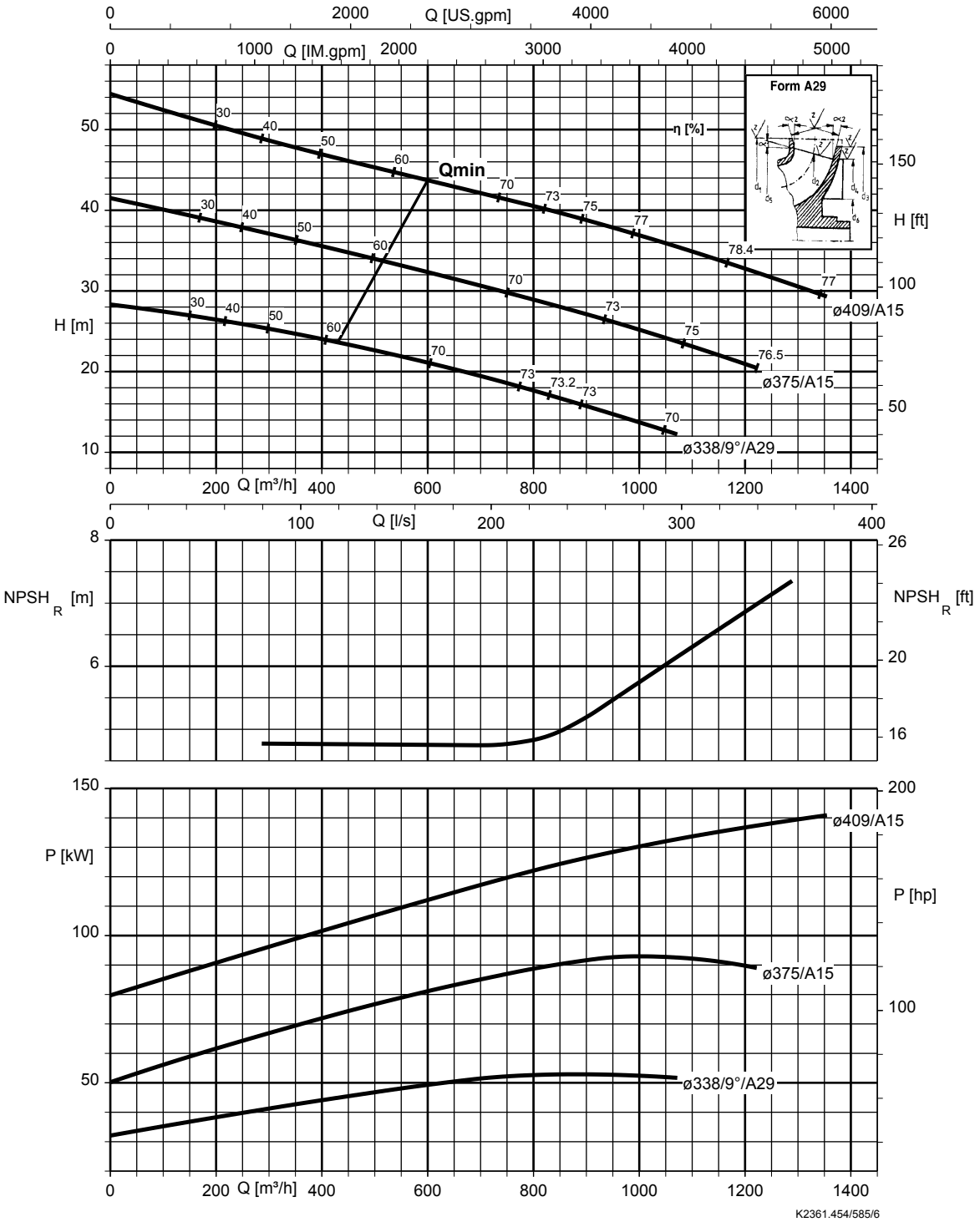
KWP K 200-200-503, n = 1450 t/min



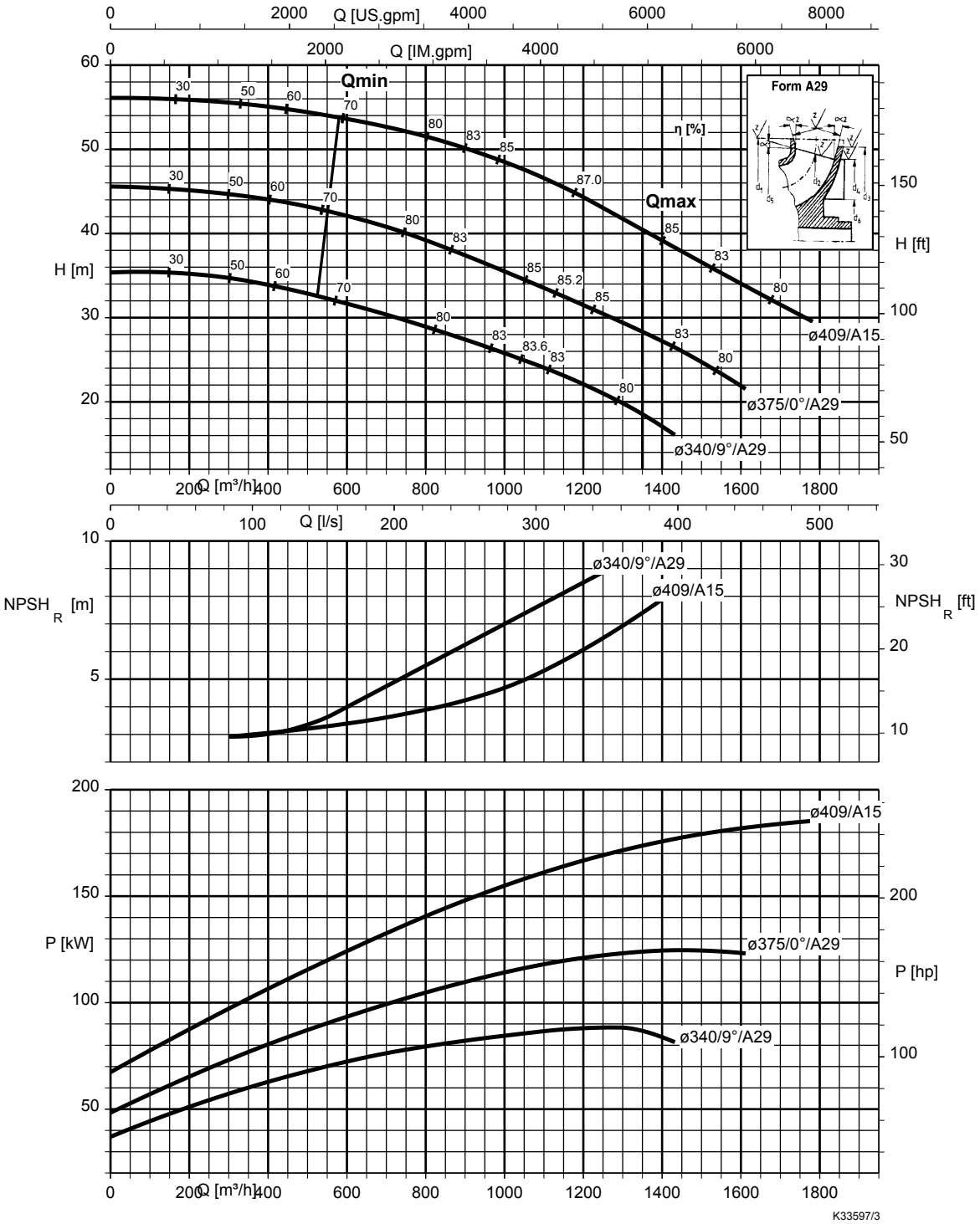
KWP K 250-250-315, n = 1450 t/min



KWP K 250-250-400, n = 1450 t/min



KWP K 250-250-403, n = 1450 t/min



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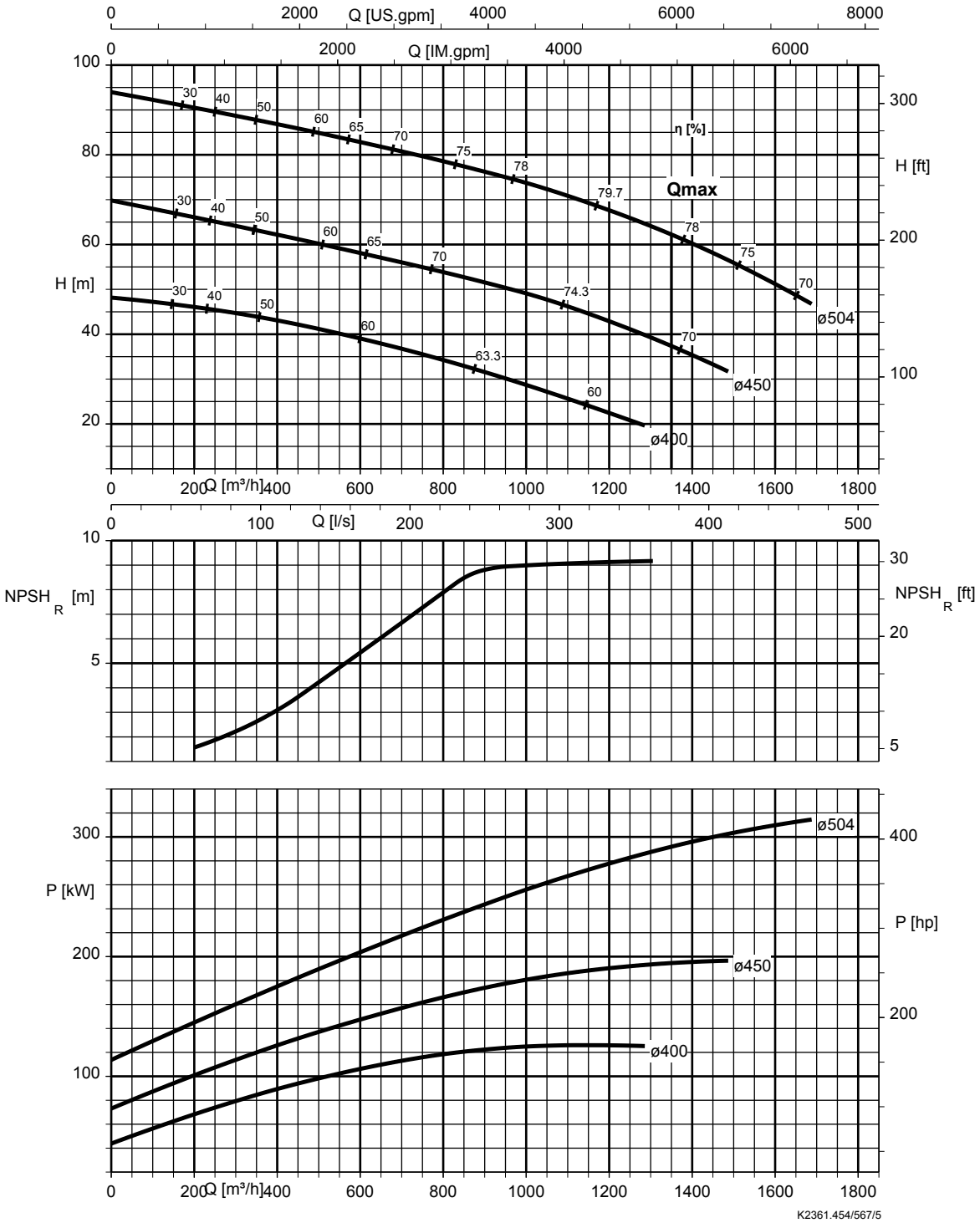

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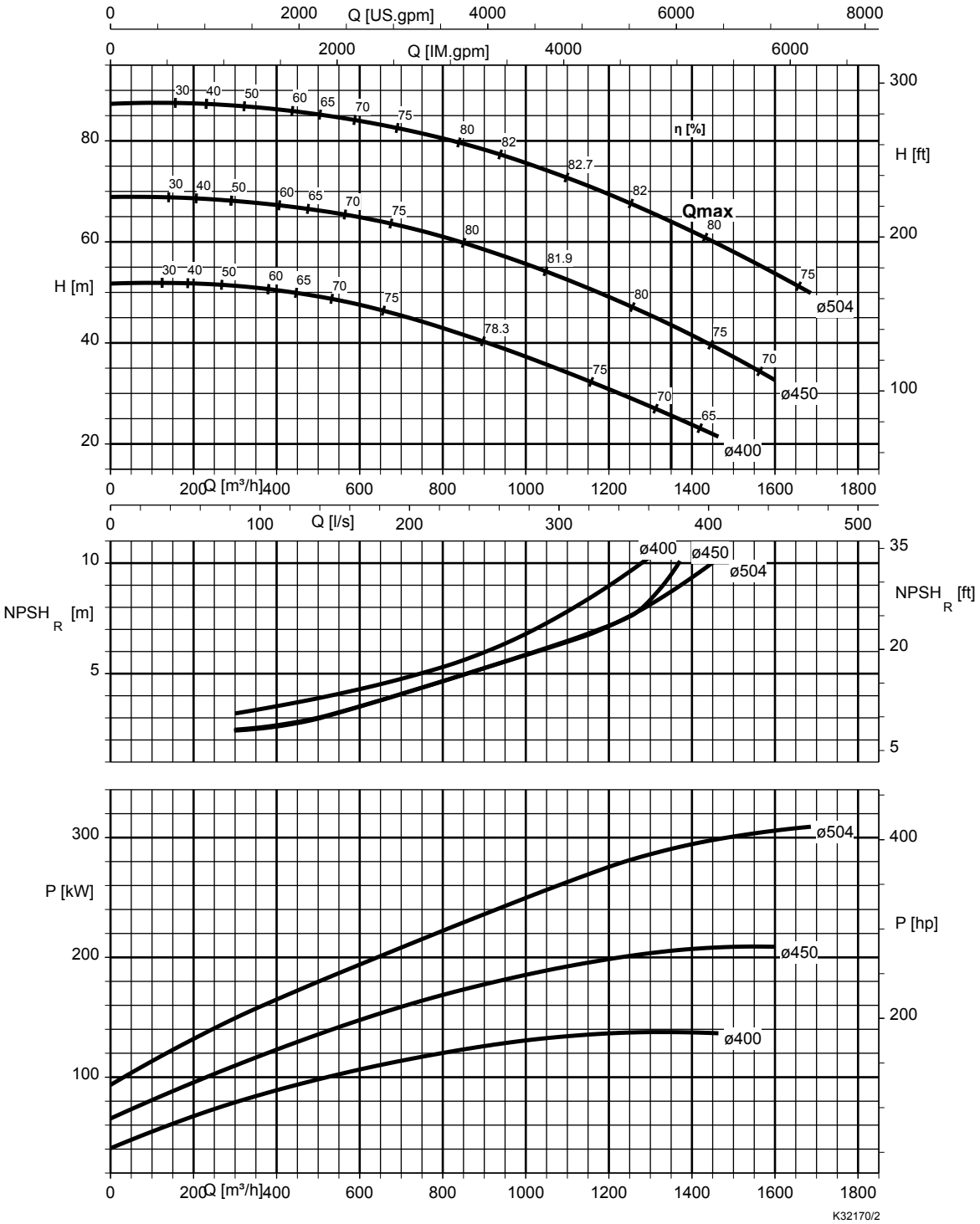
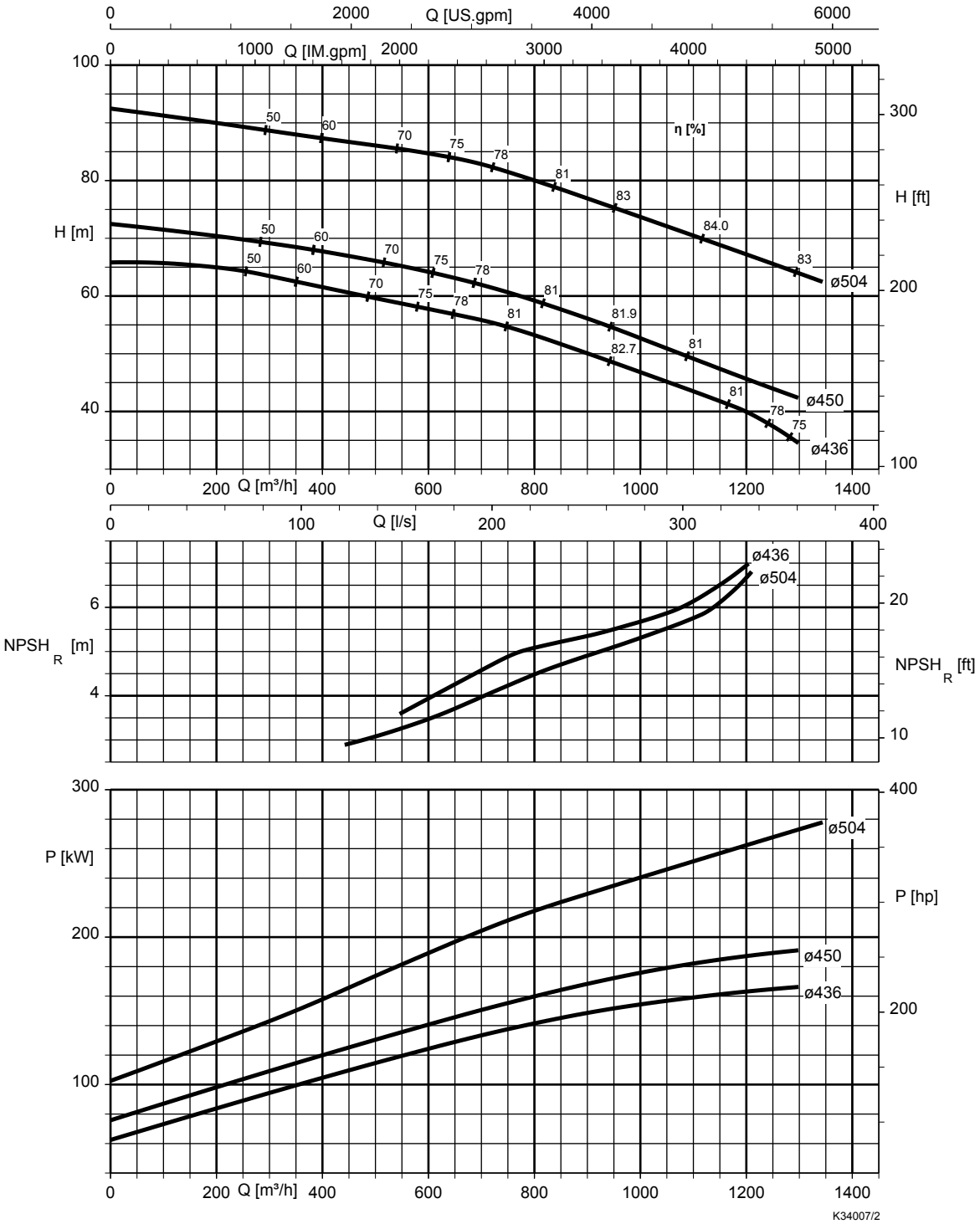
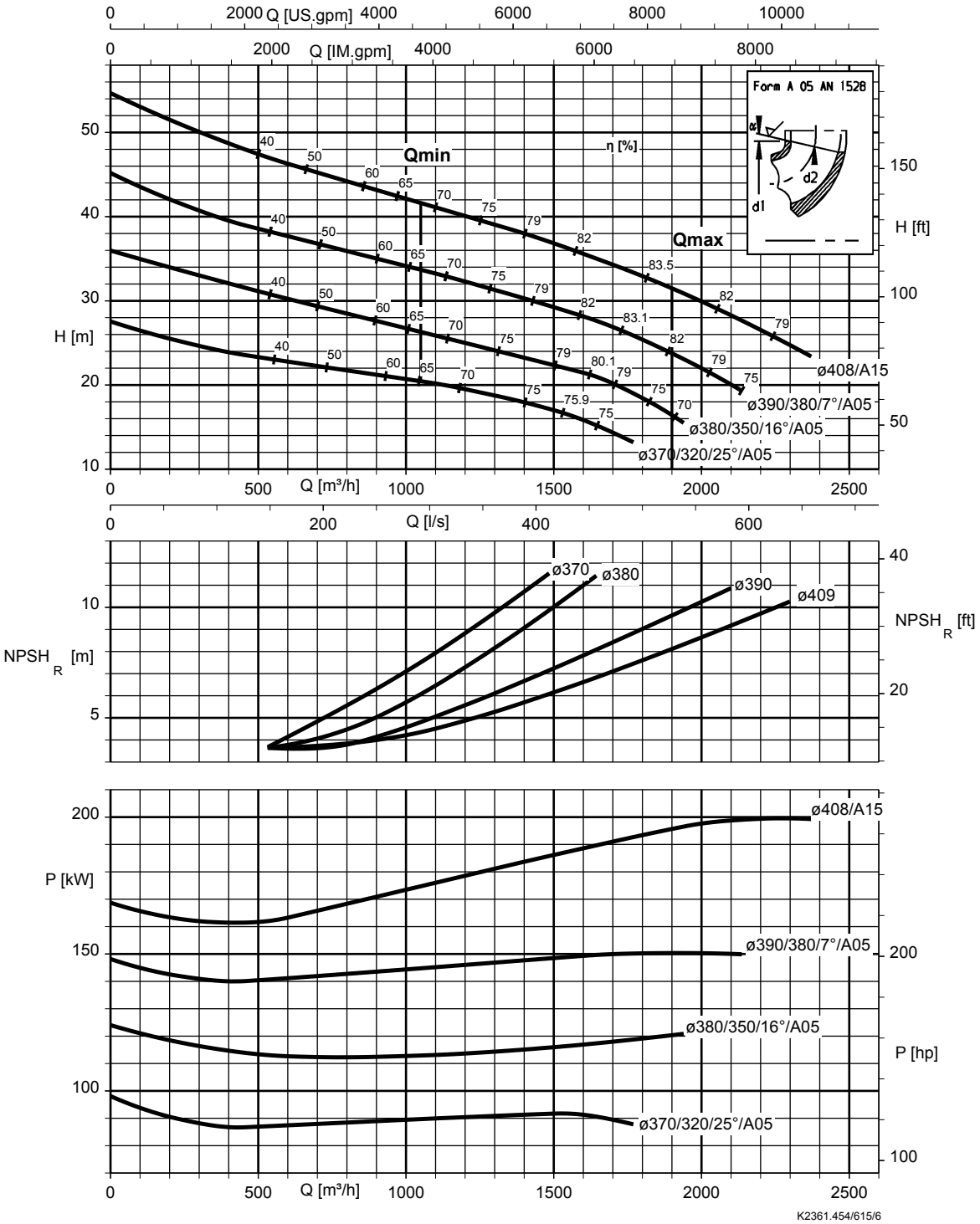


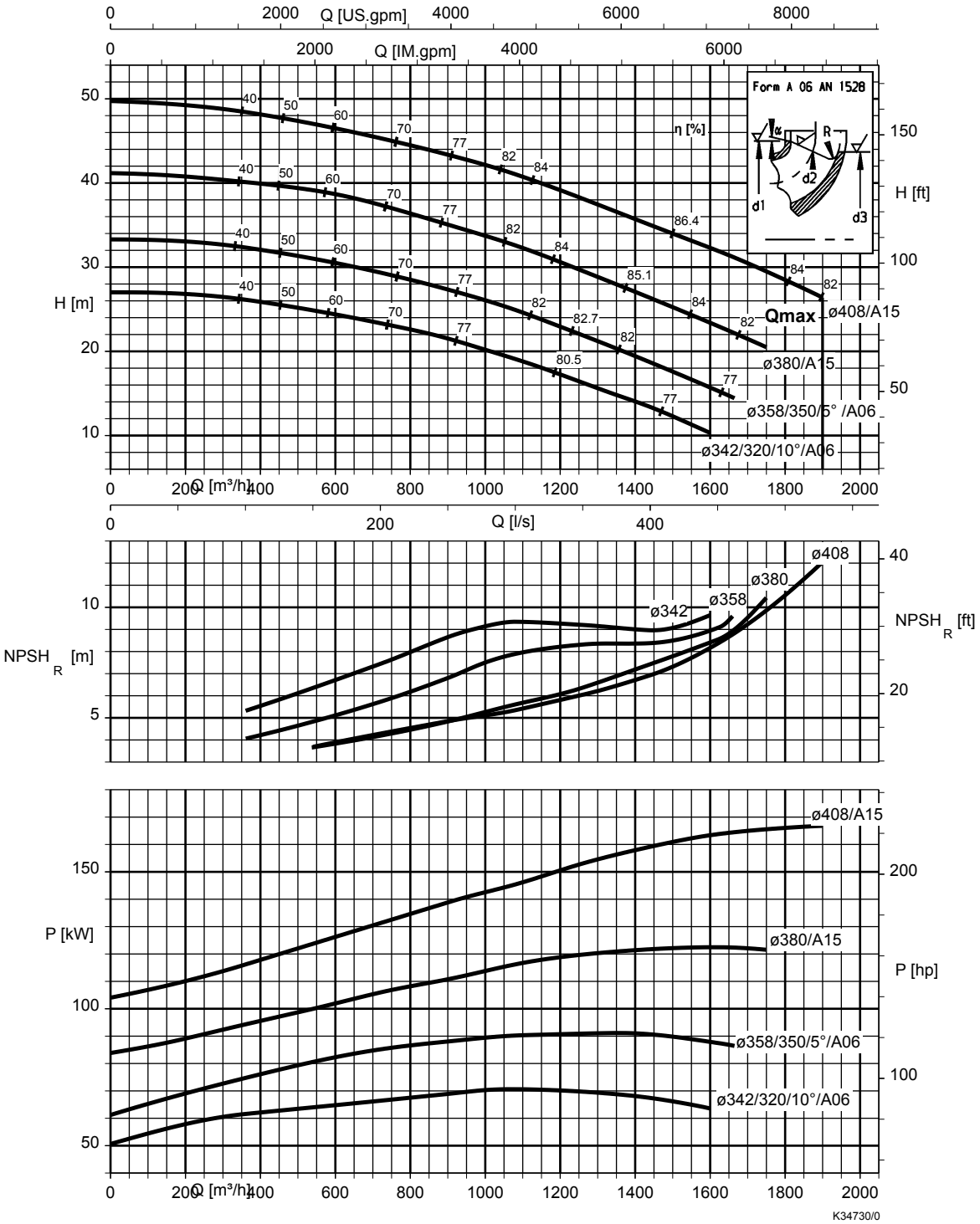
KWP K 250-250-505, n = 1450 t/min



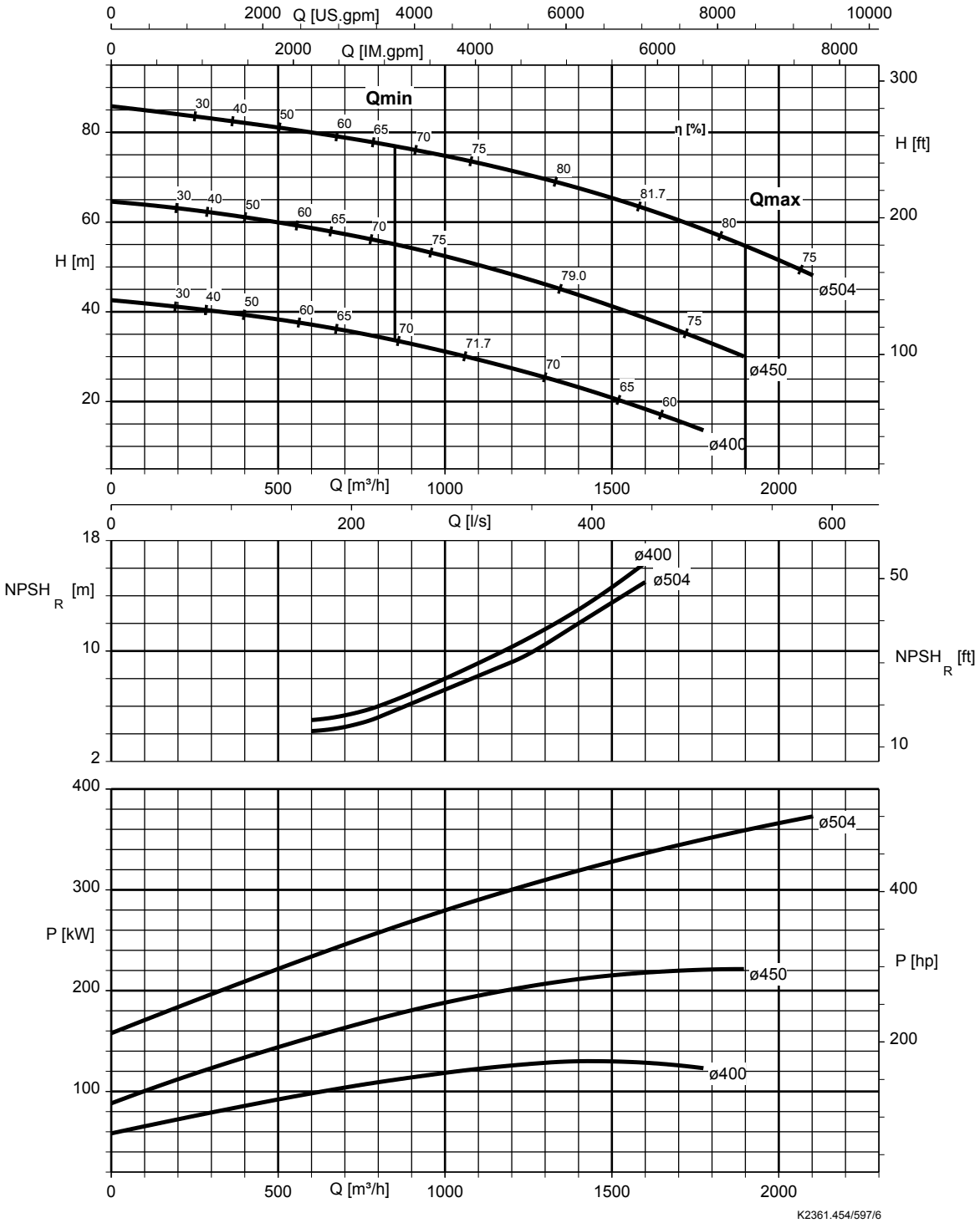
KWP K 300-300-400, n = 1450 t/min



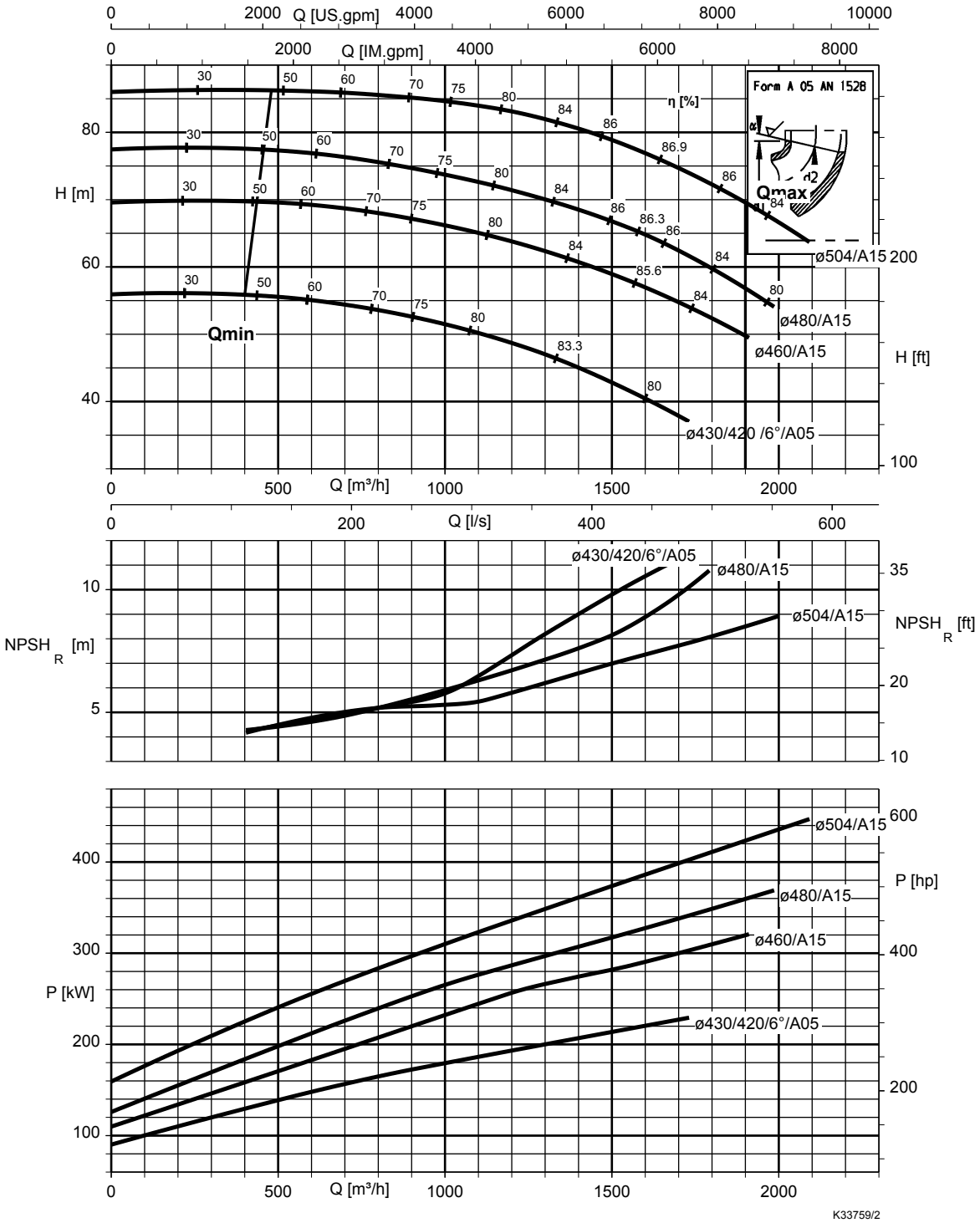
KWP K 300-300-401, n = 1450 t/min



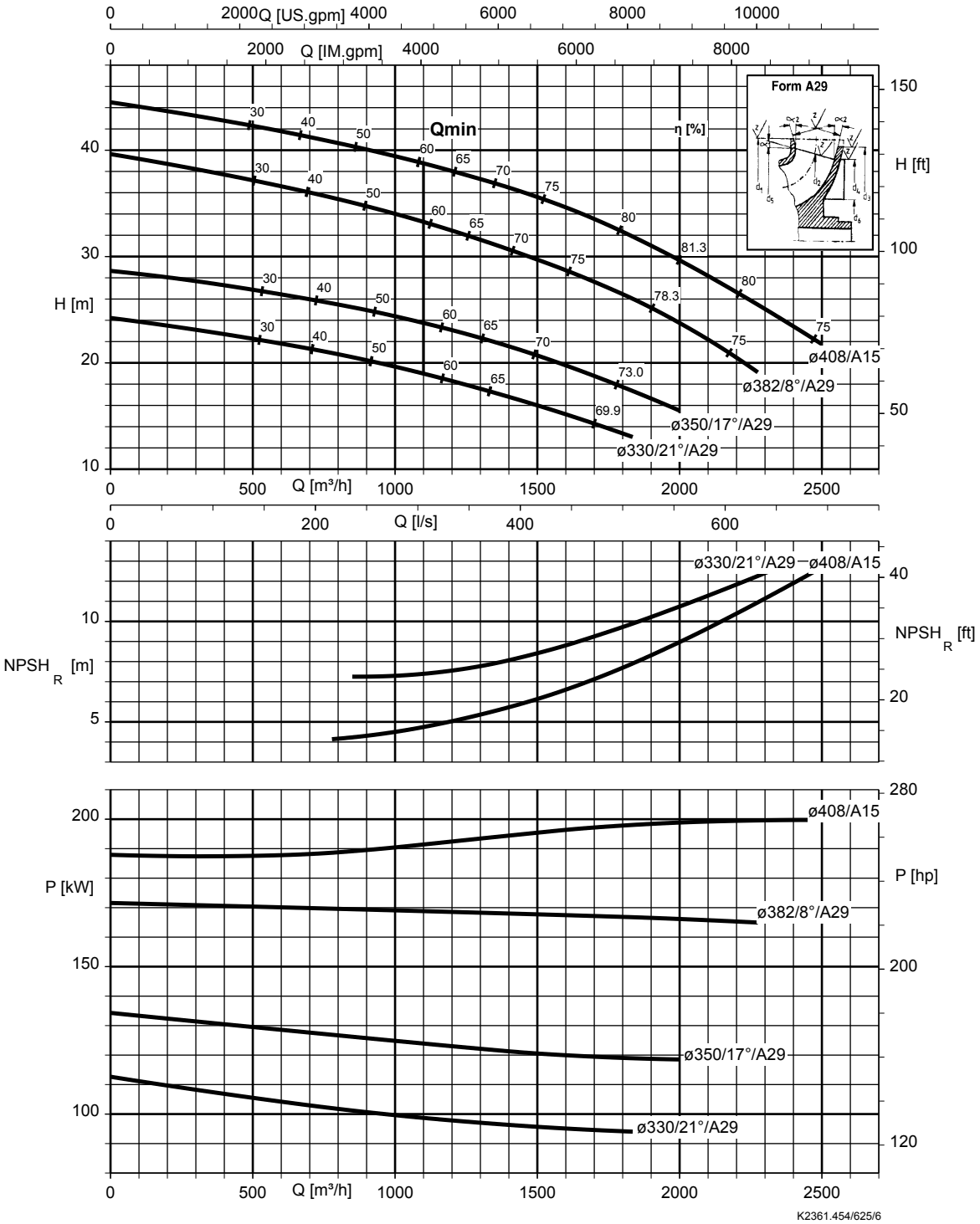
KWP K 300-300-500, n = 1450 t/min



KWP K 300-300-503, n = 1450 t/min

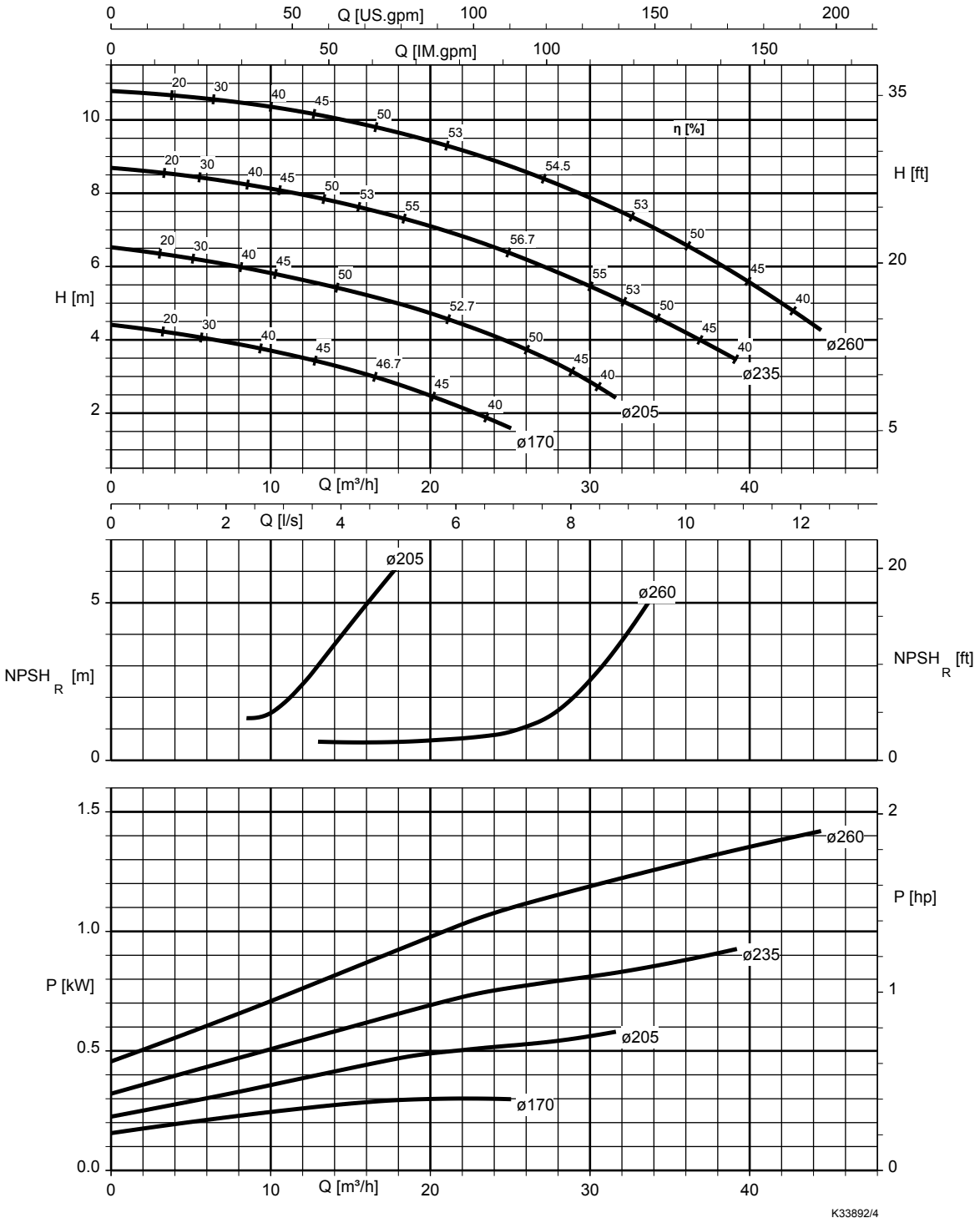


KWP K 350-350-400, n = 1450 t/min

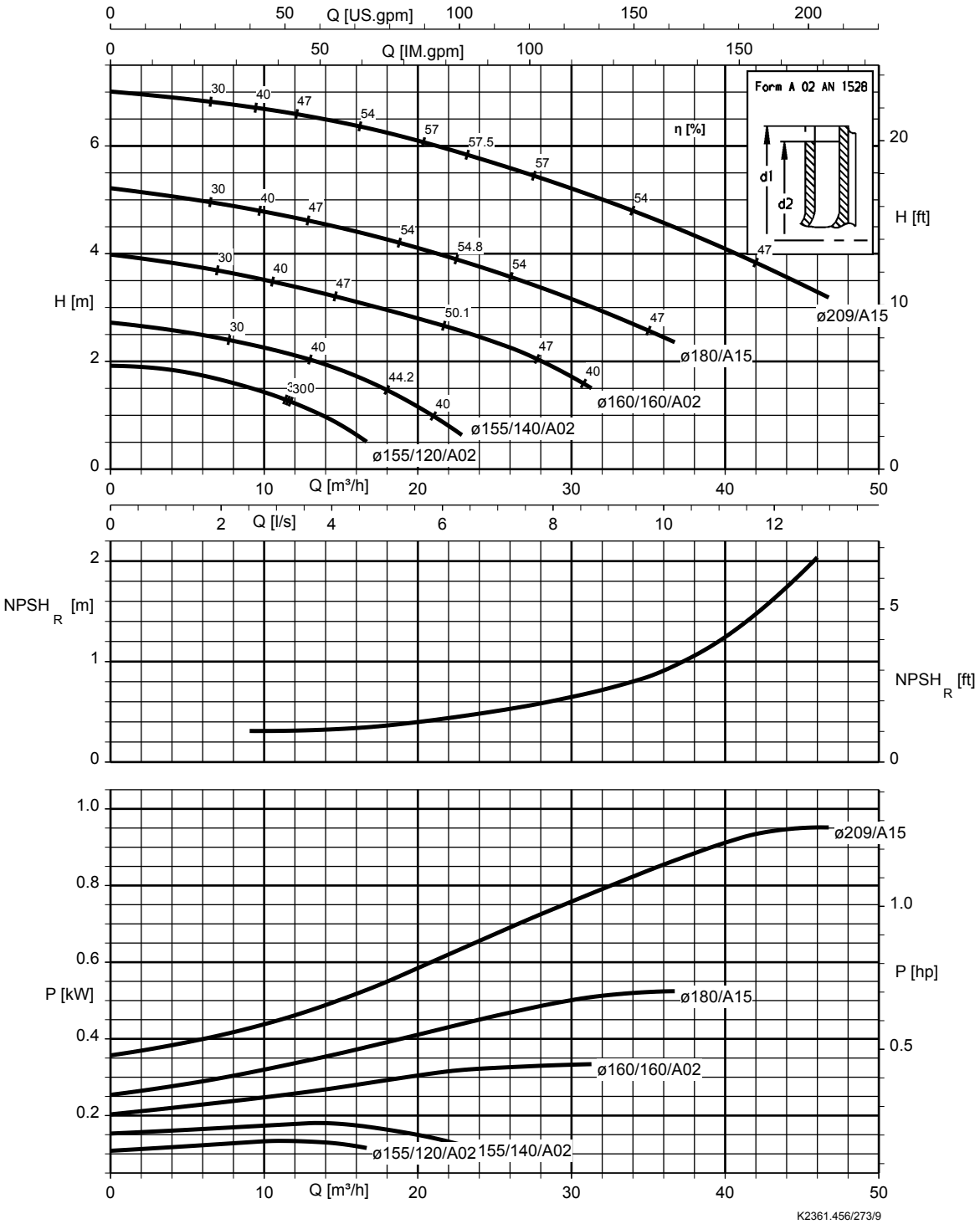


n = 960 t/min

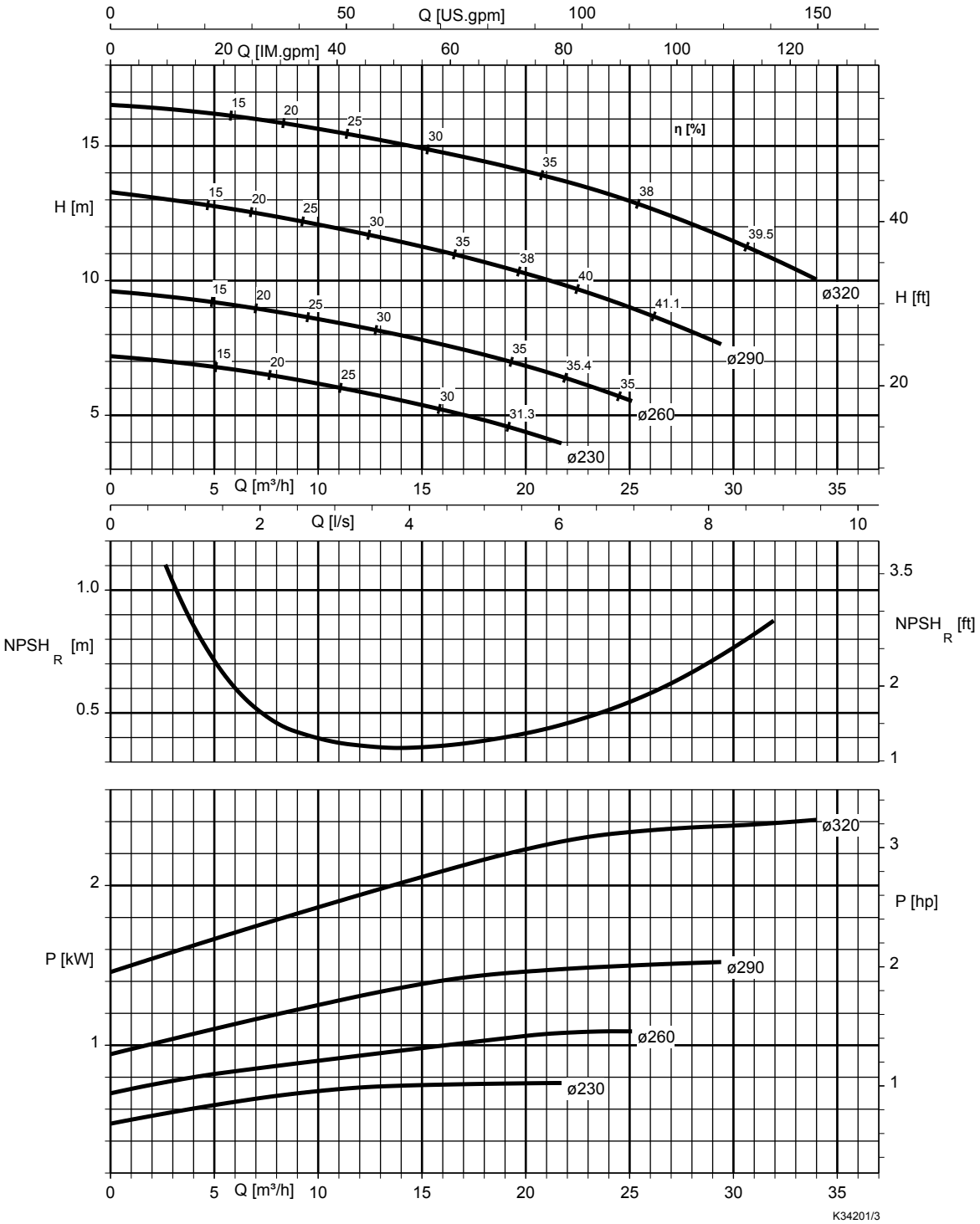
KWP K 065-040-250, n = 960 t/min



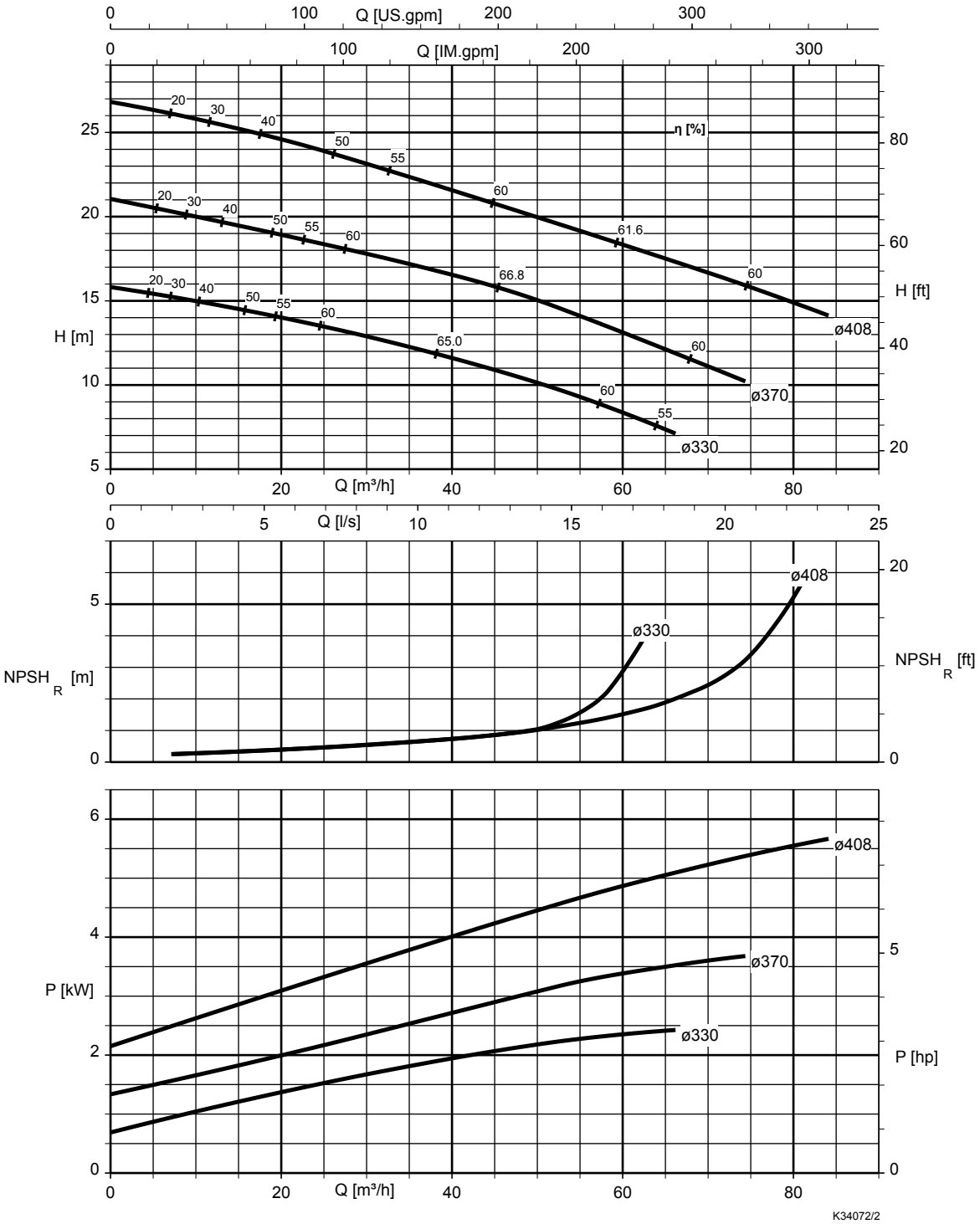
KWP K 065-050-200, n = 960 t/min



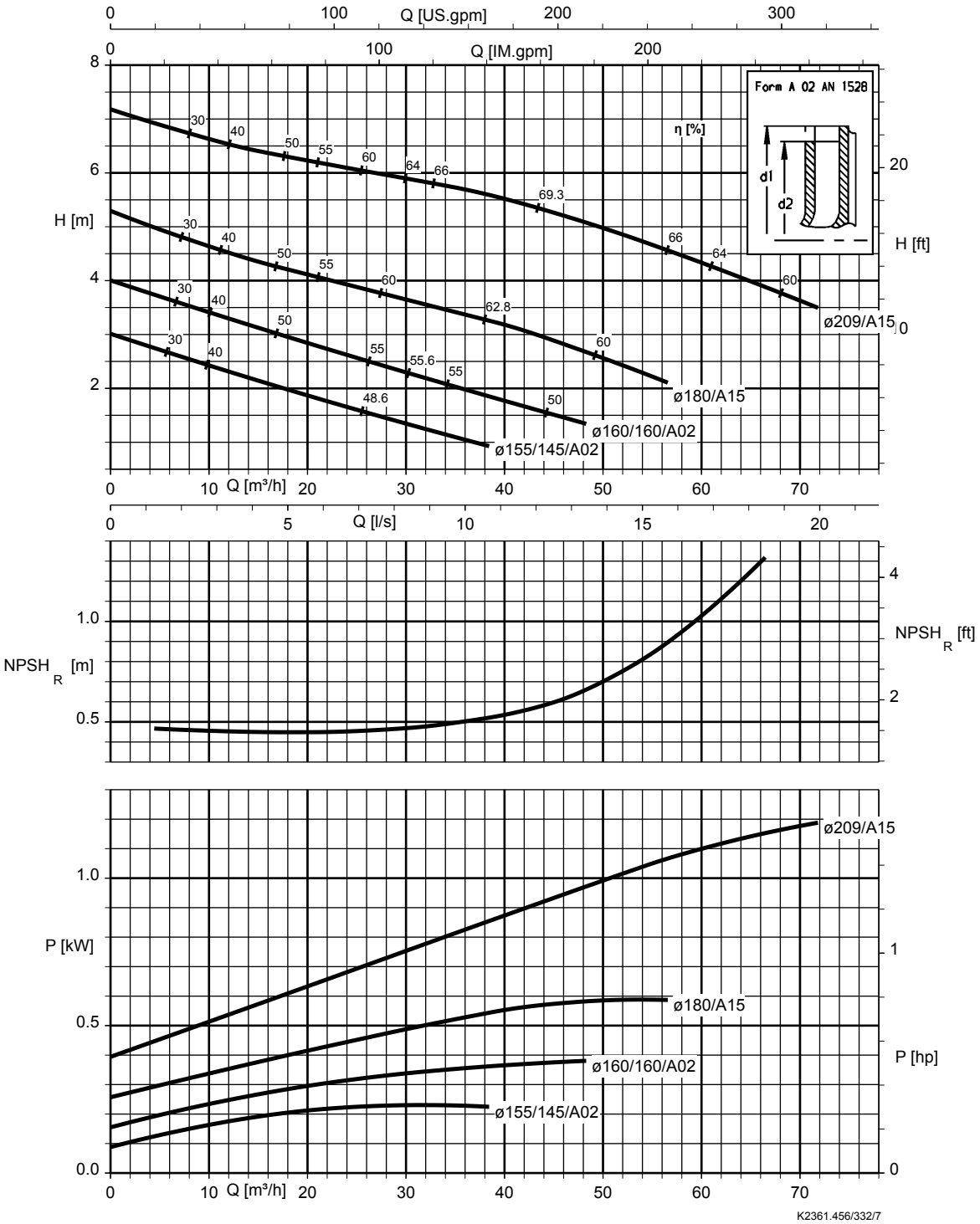
KWP K 080-040-315, n = 960 t/min



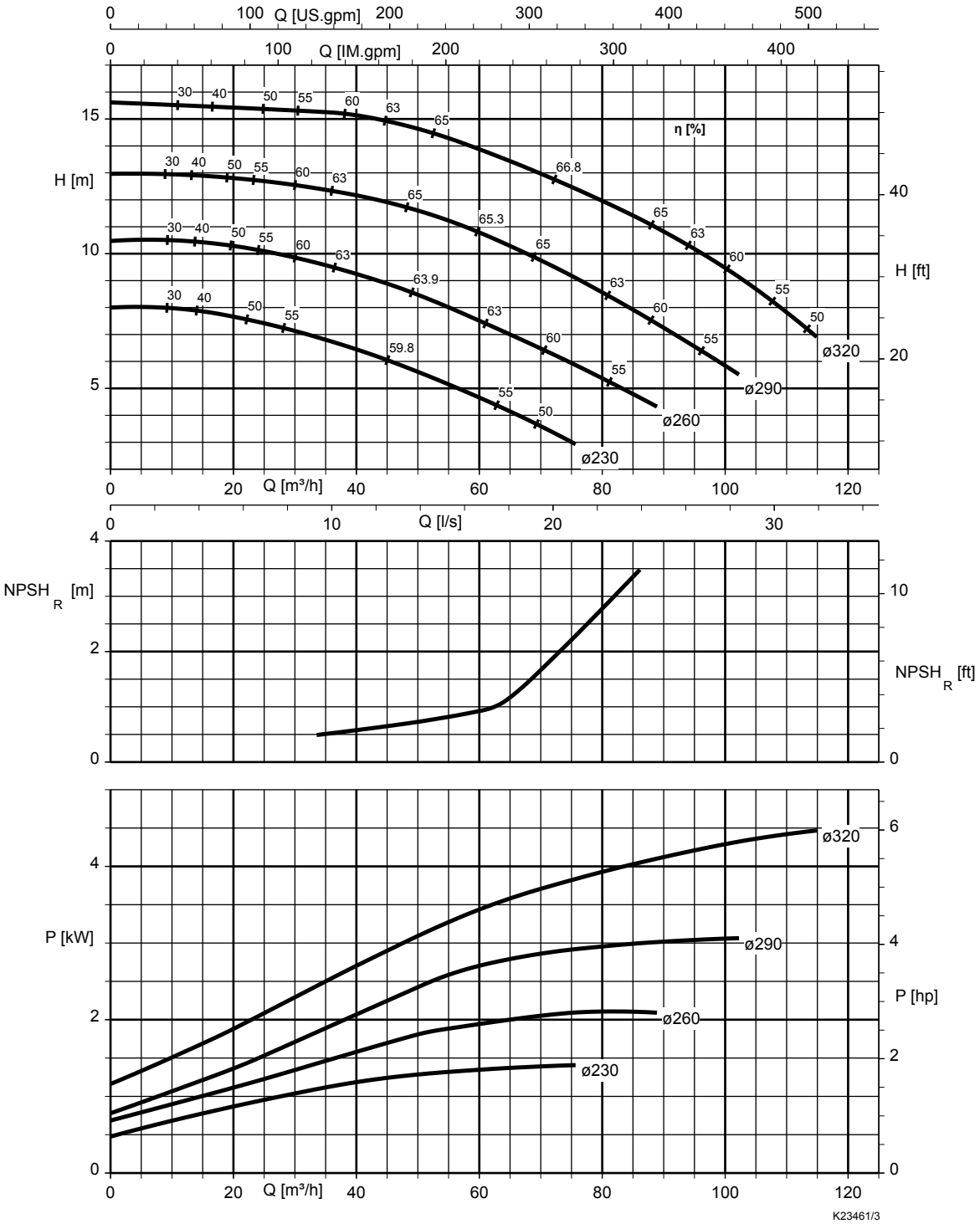
KWP K 080-050-400, n = 960 t/min



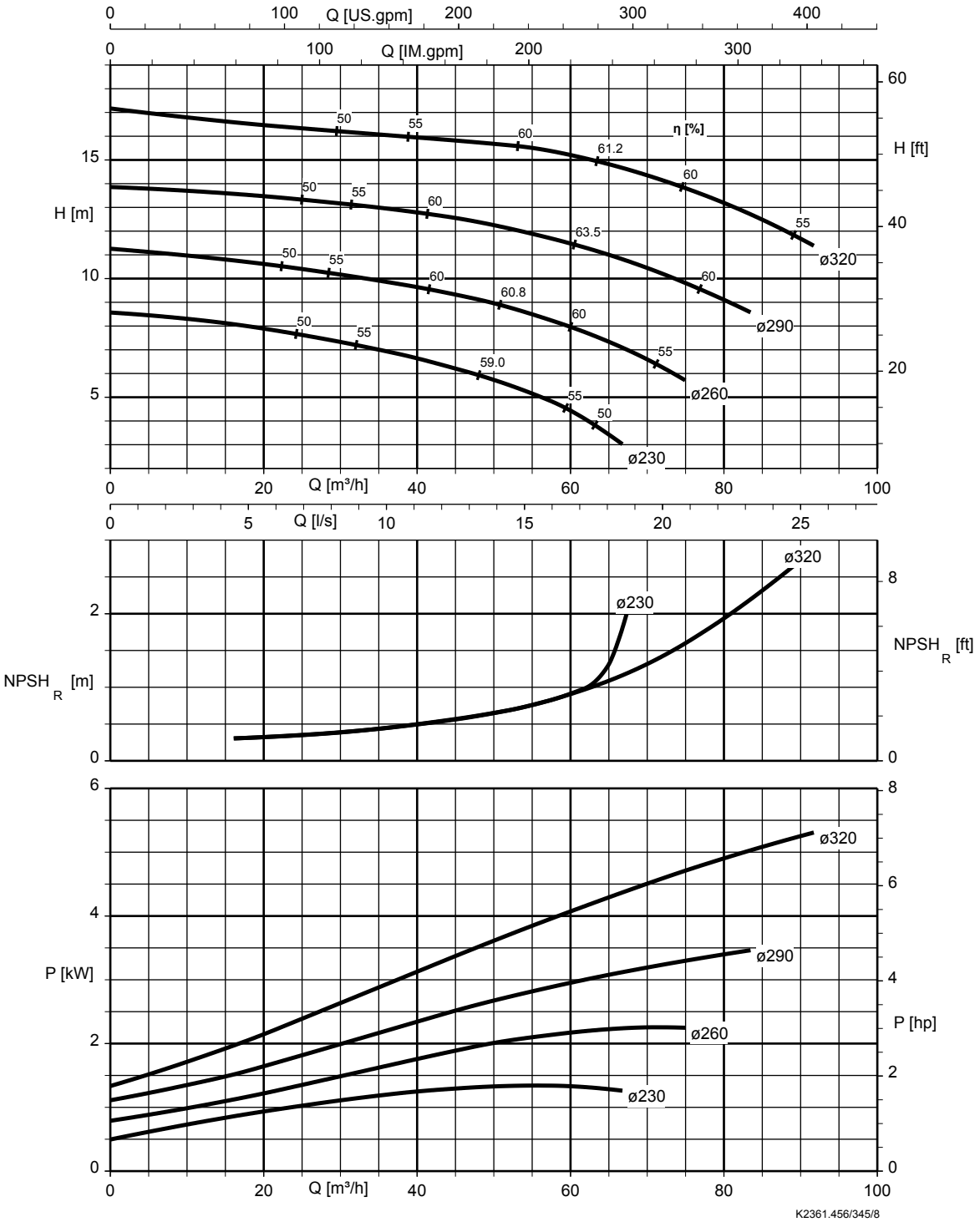
KWP K 080-065-200, n = 960 t/min



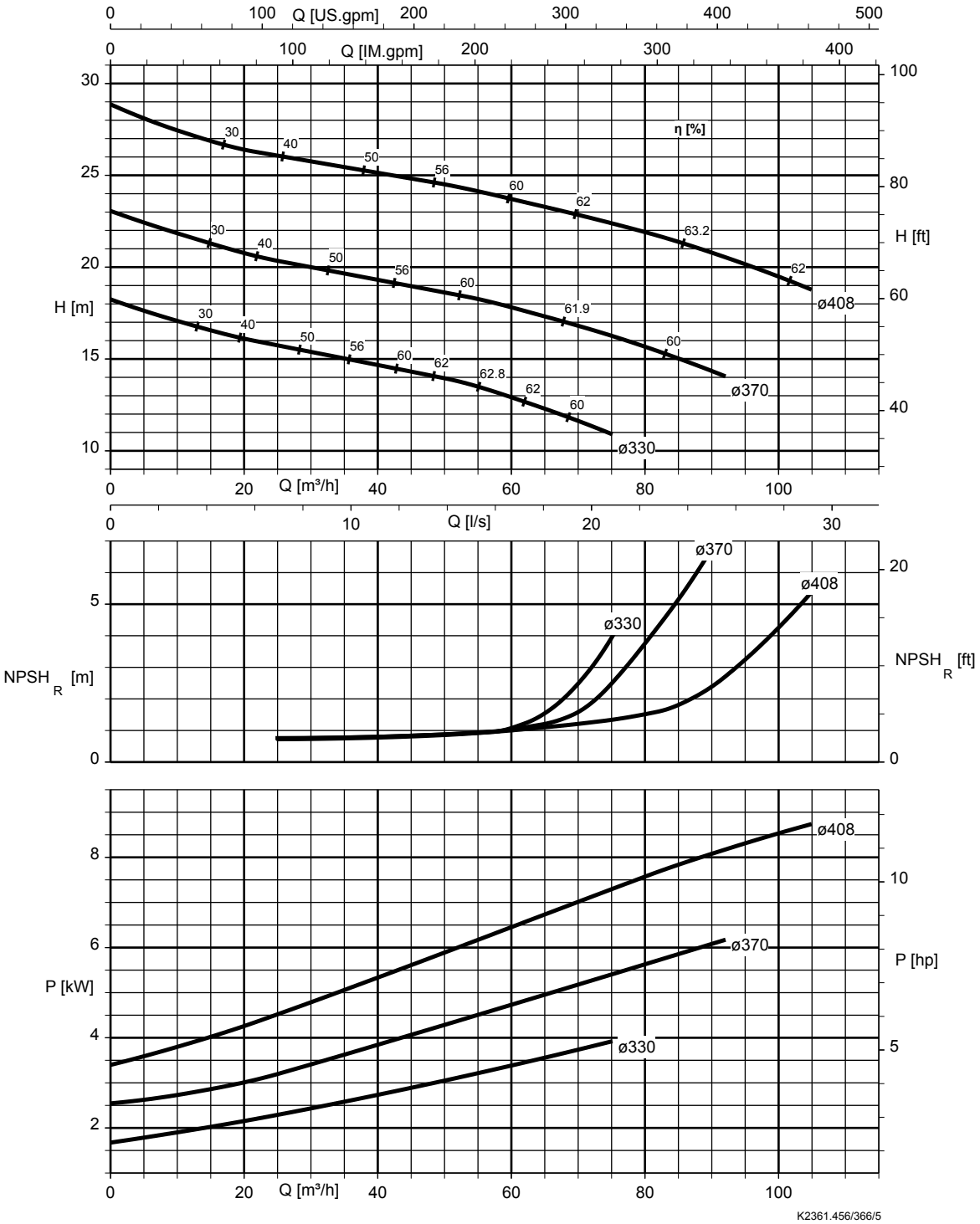
KWP K 080-065-313, n = 960 t/min



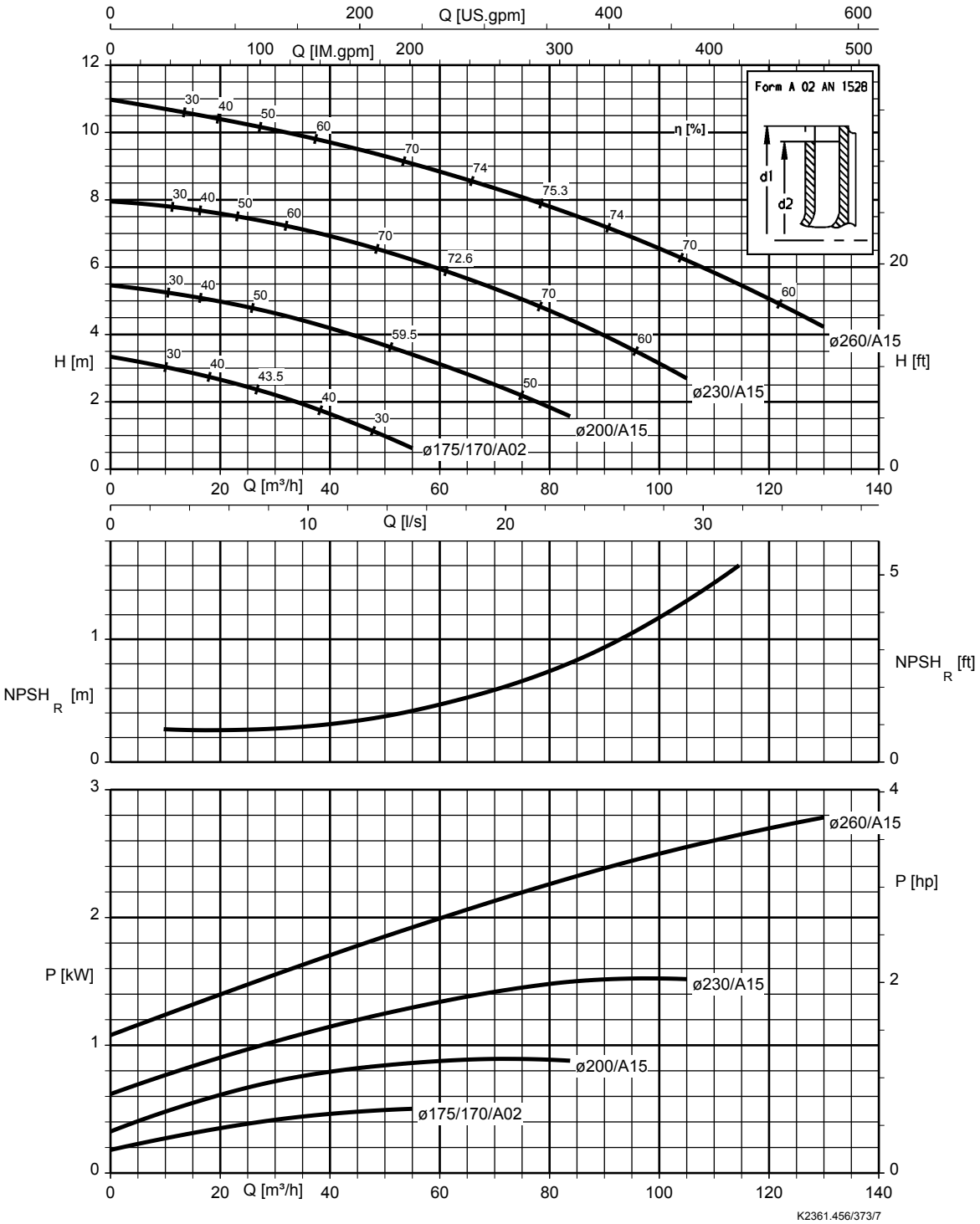
KWP K 080-065-315, n = 960 t/min



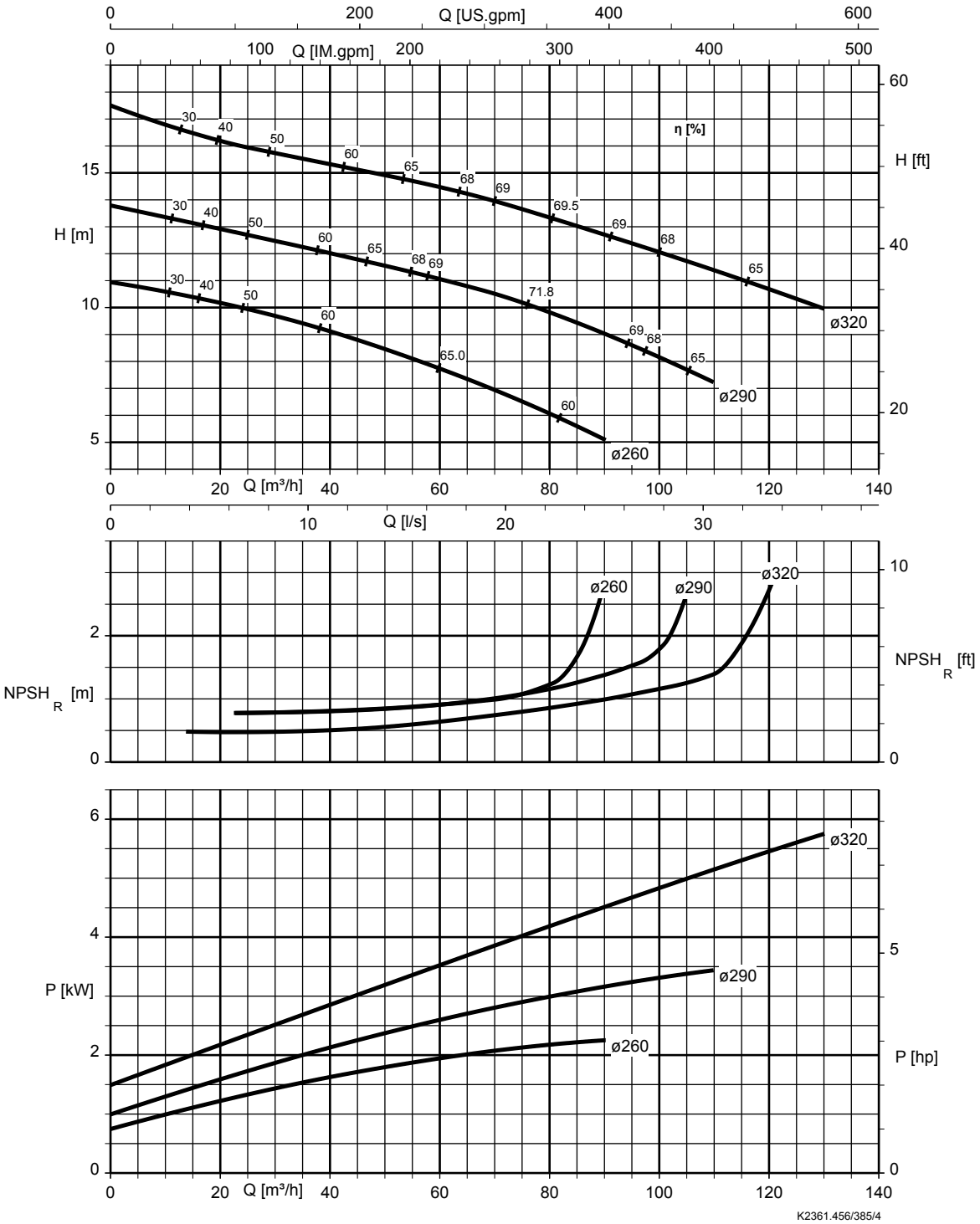
KWP K 080-065-400, n = 960 t/min



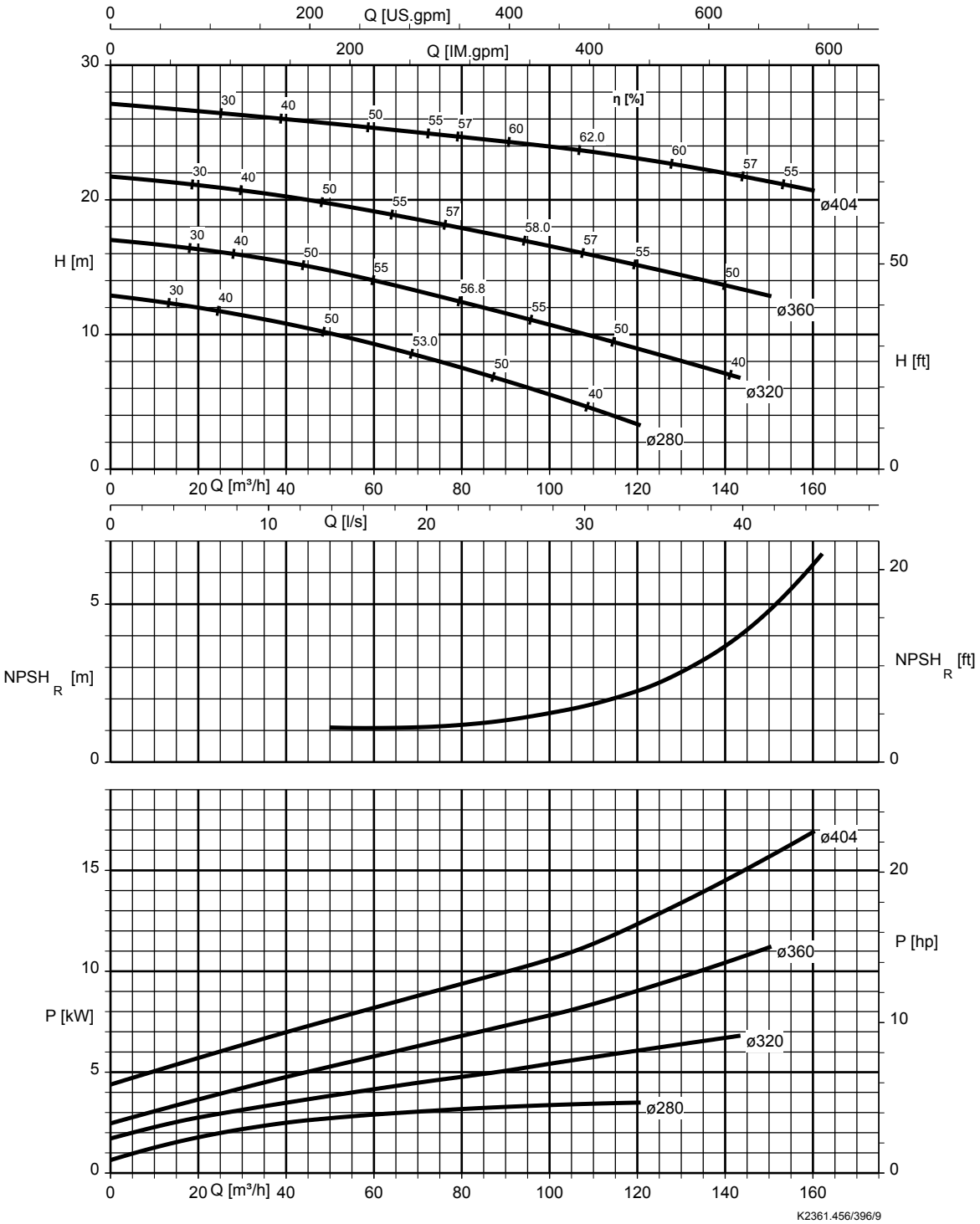
KWP K 100-080-250, n = 960 t/min



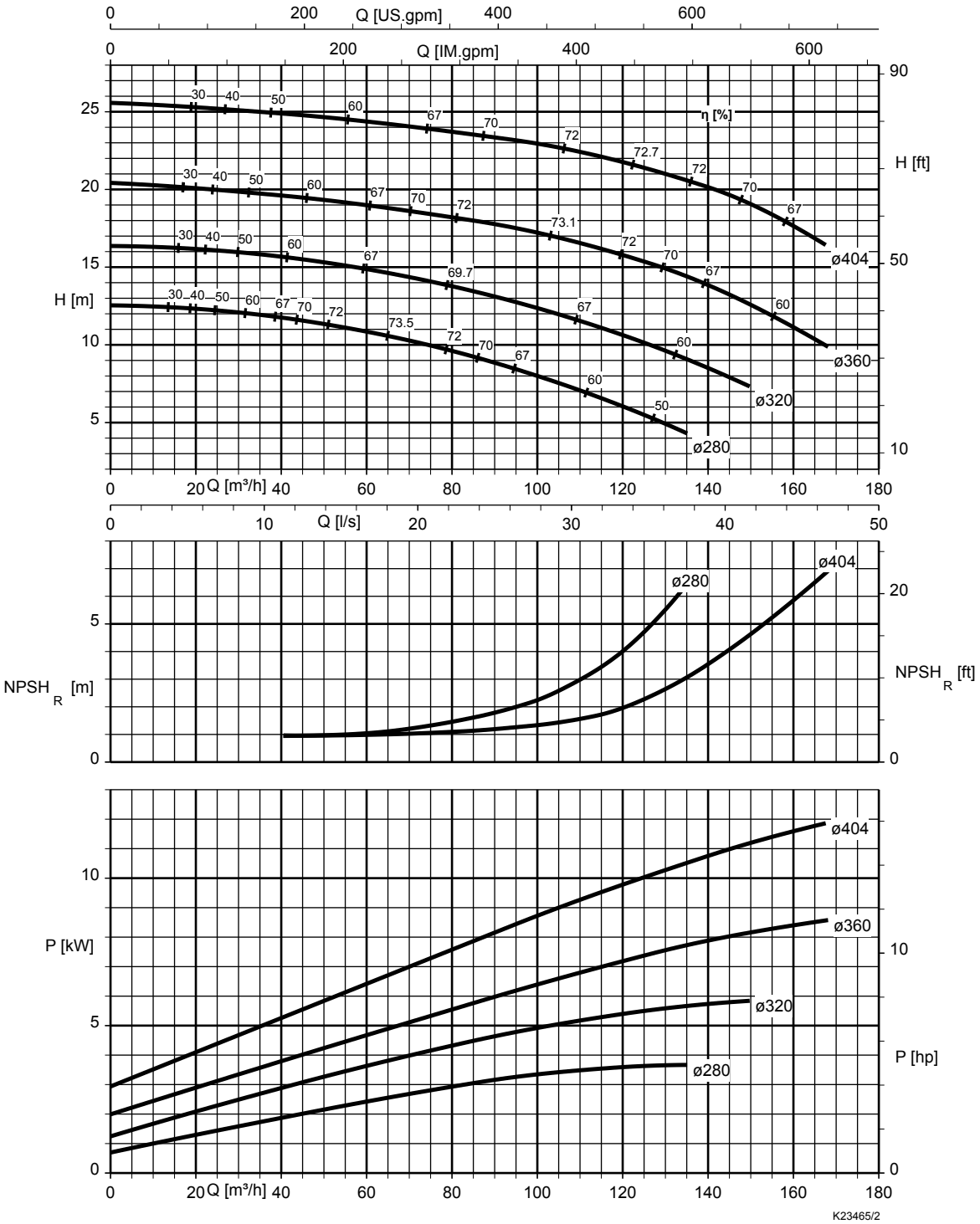
KWP K 100-080-315, n = 960 t/min



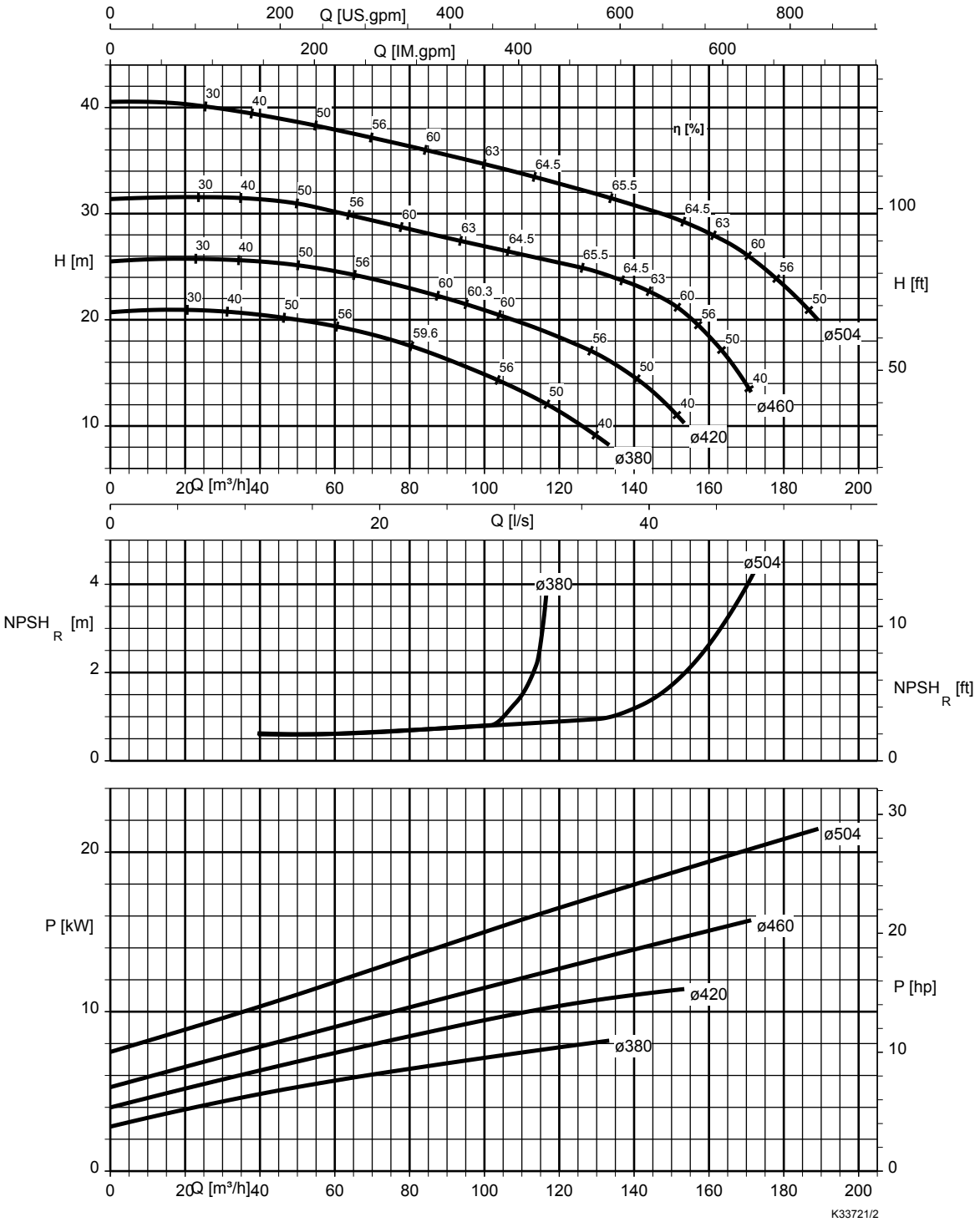
KWP K 100-080-400, n = 960 t/min



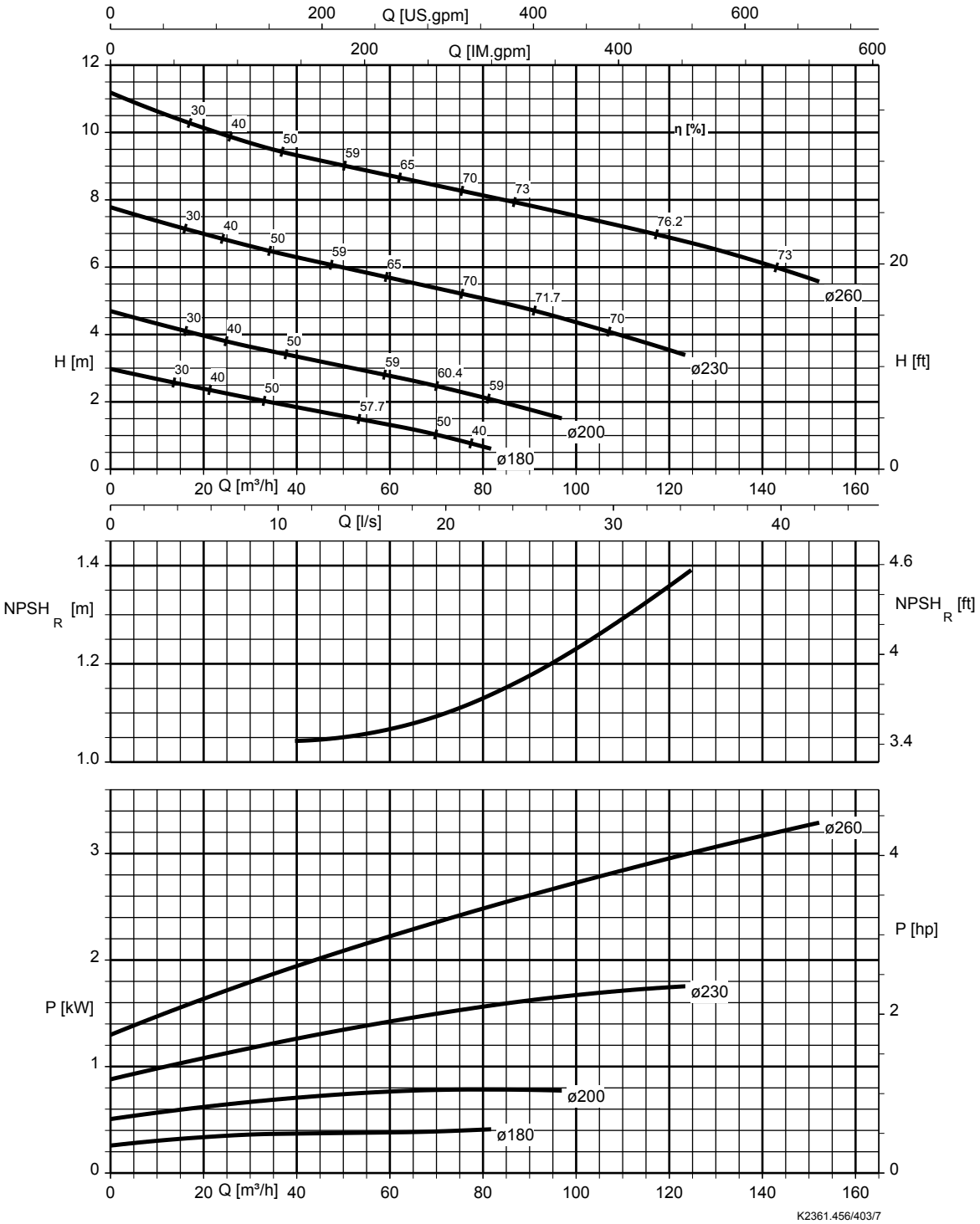
KWP K 100-080-403, n = 960 t/min



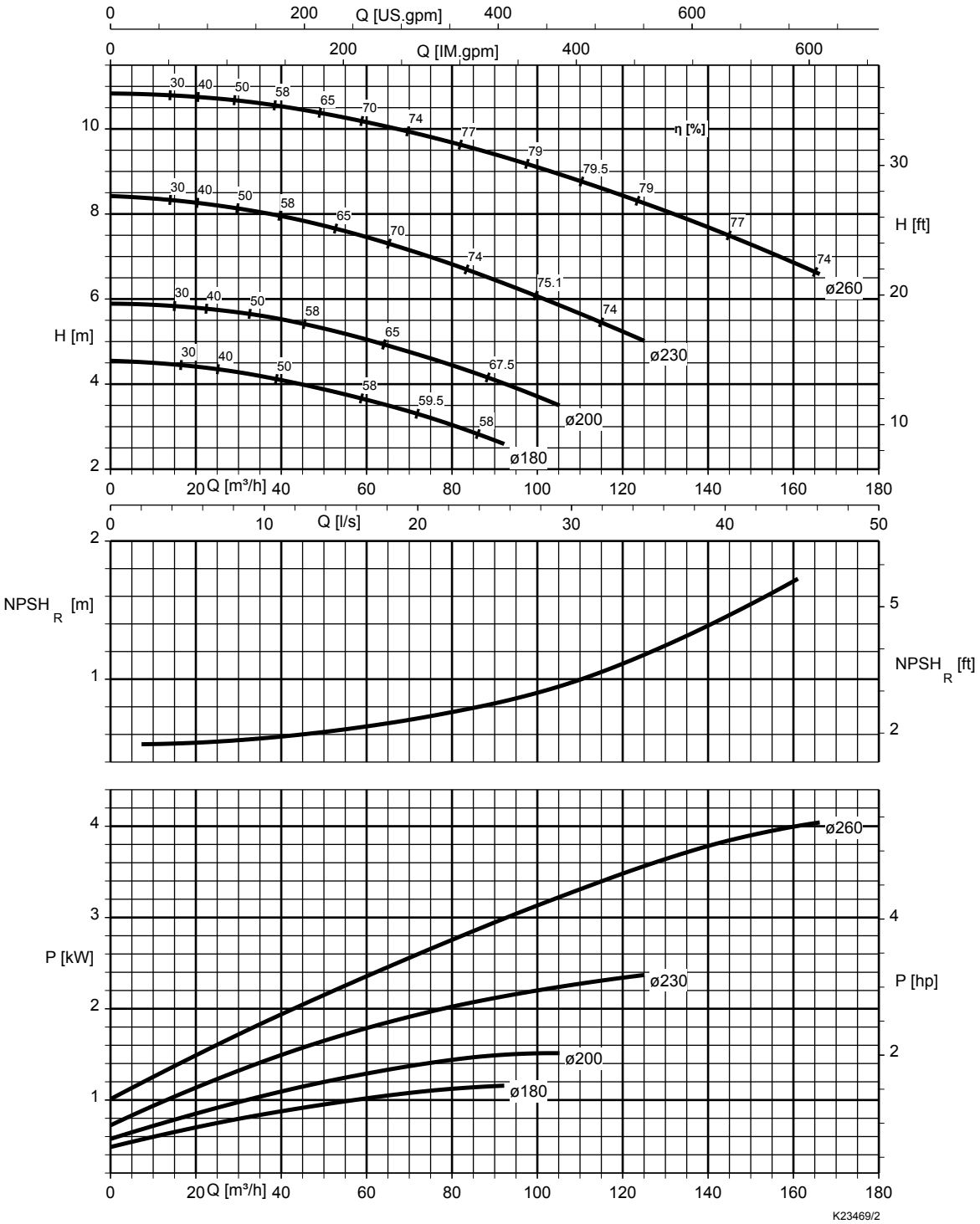
KWP K 125-080-500, n = 960 t/min



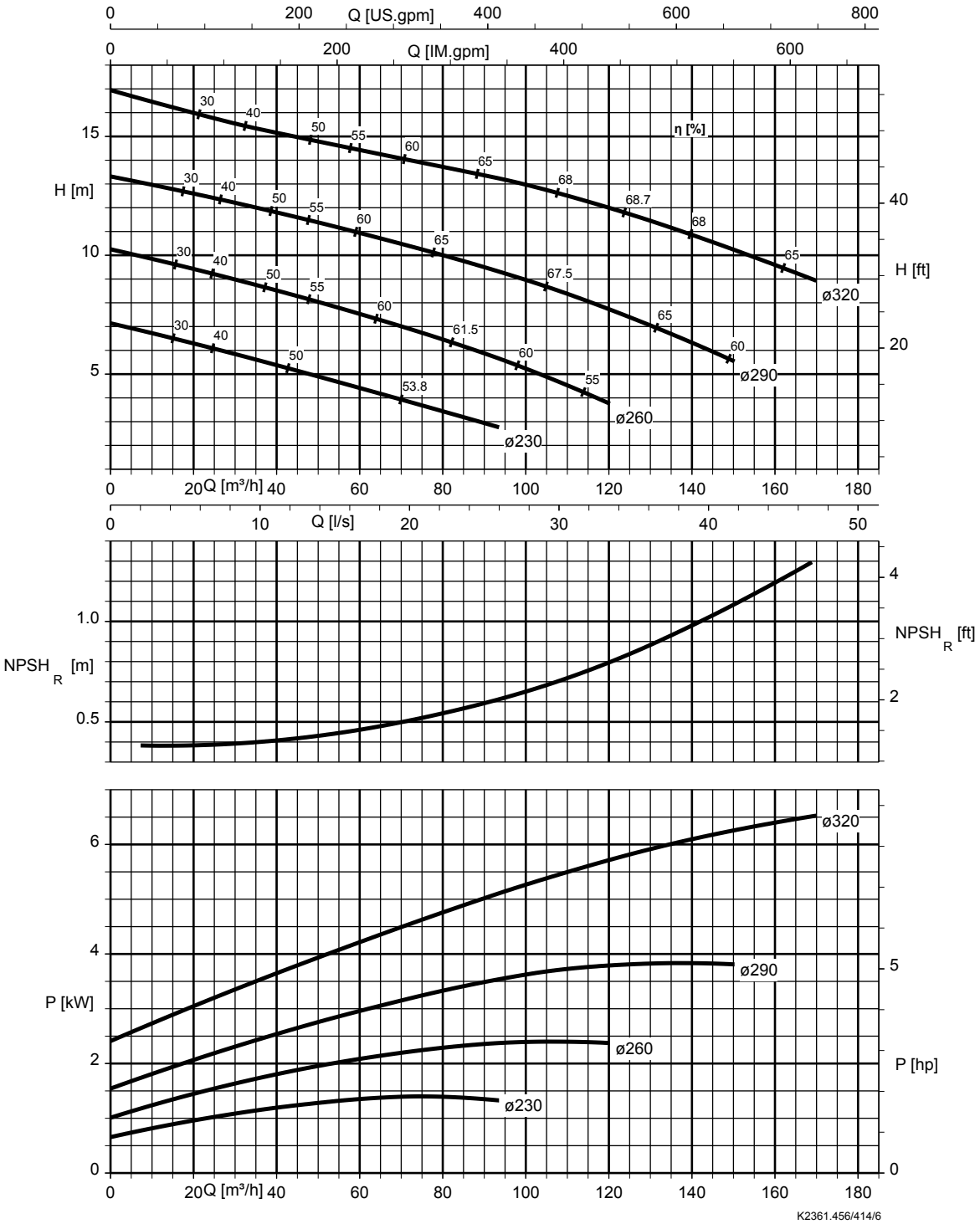
KWP K 125-100-250, n = 960 t/min



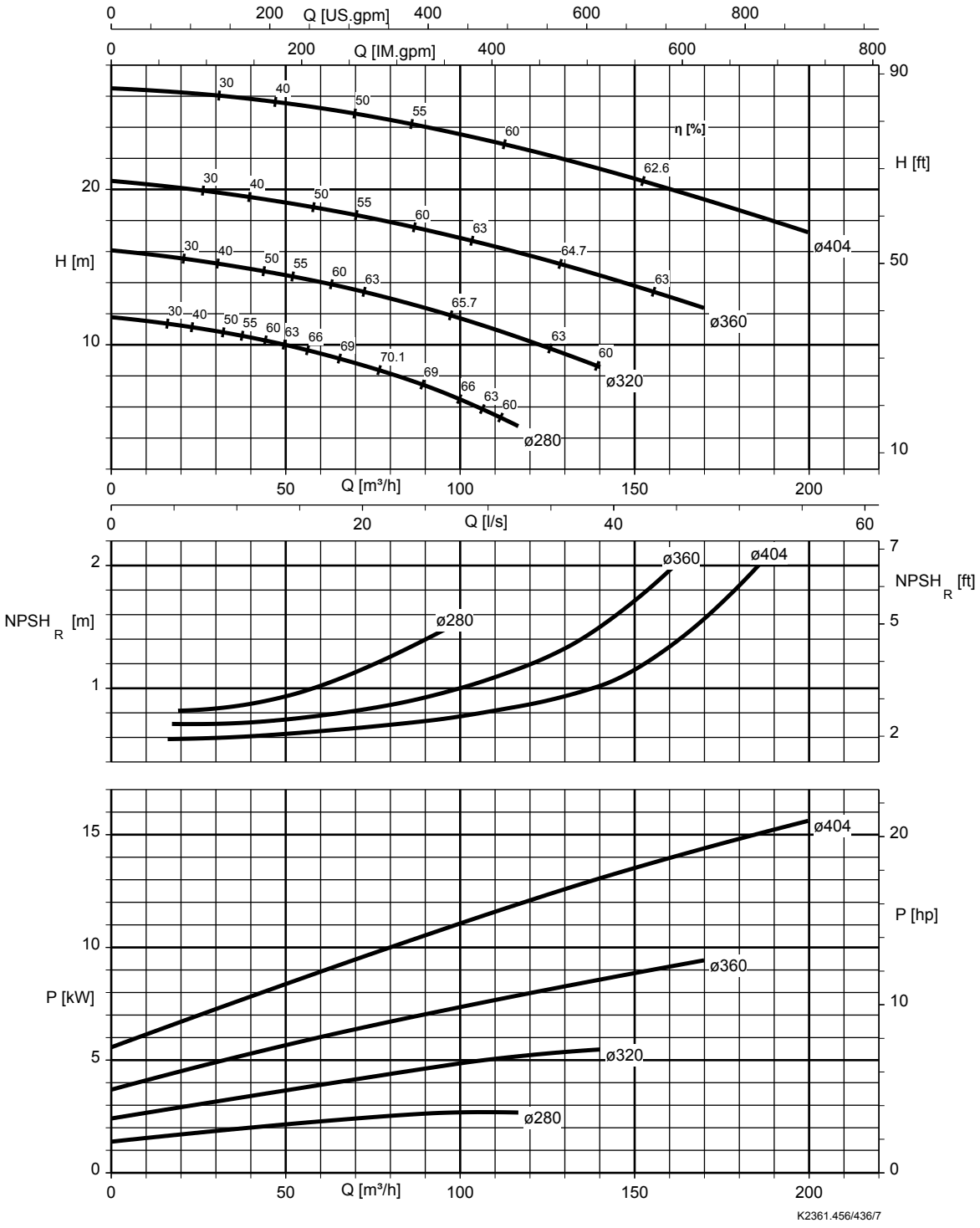
KWP K 125-100-253, n = 960 t/min



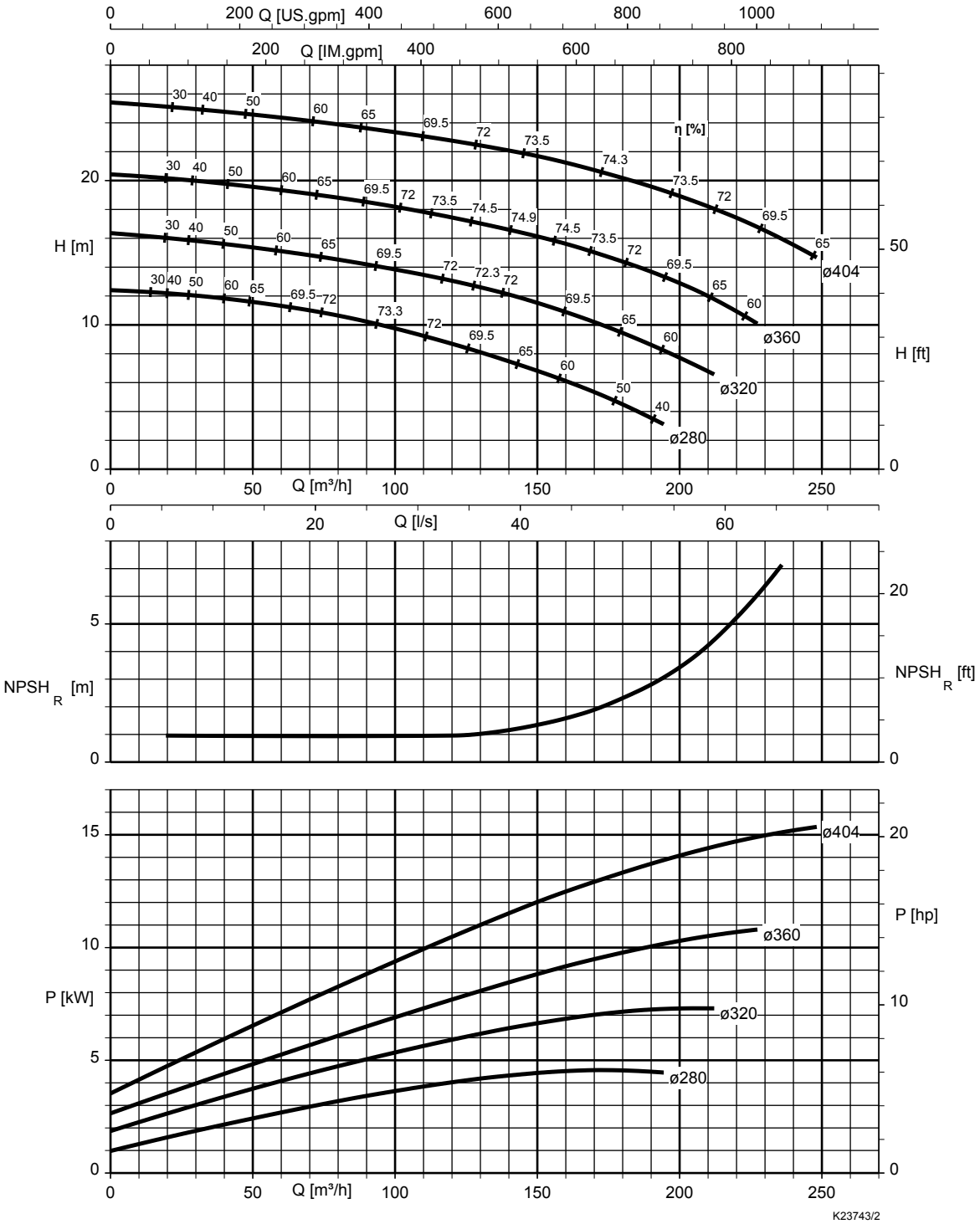
KWP K 125-100-315, n = 960 t/min



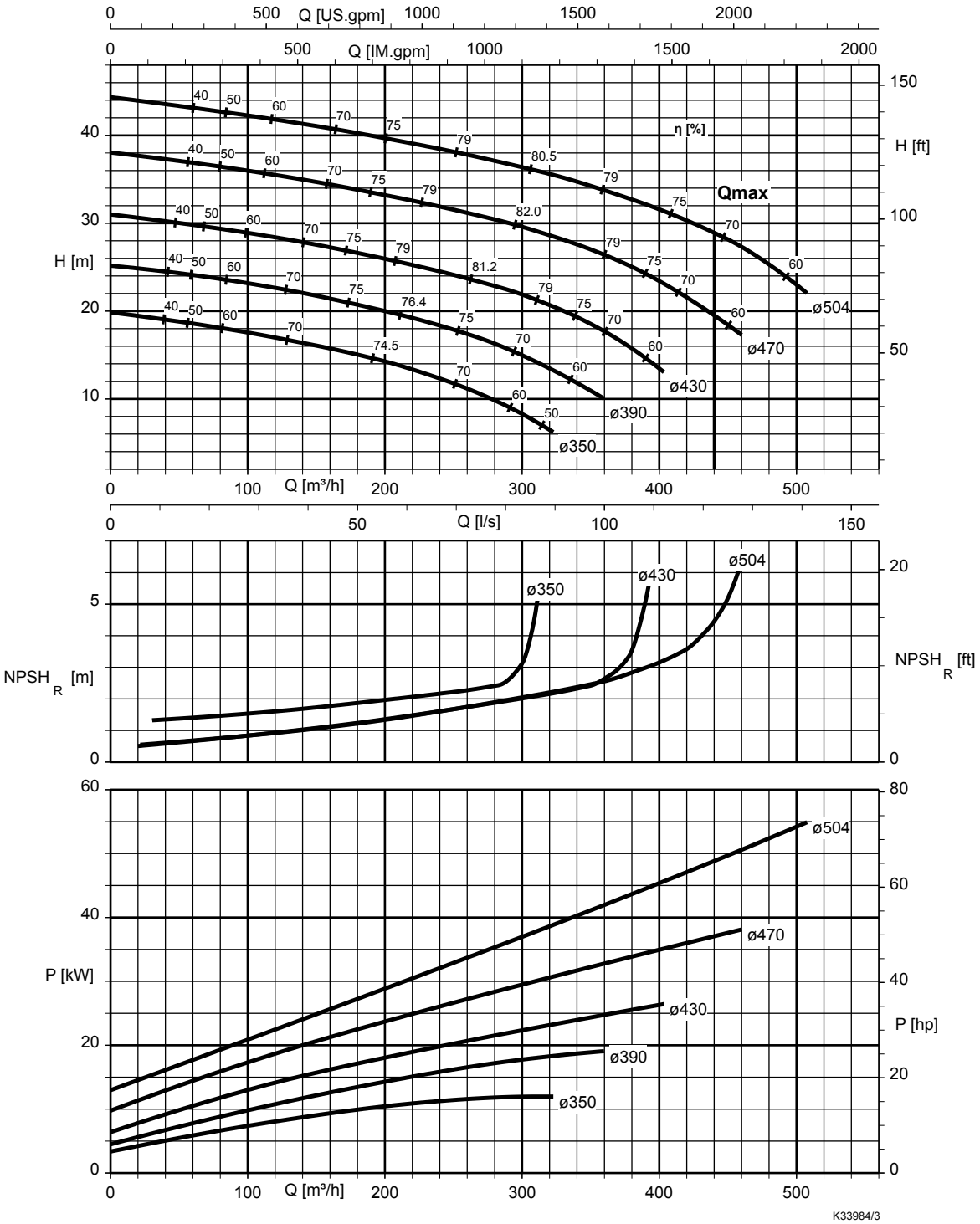
KWP K 125-100-400, n = 960 t/min



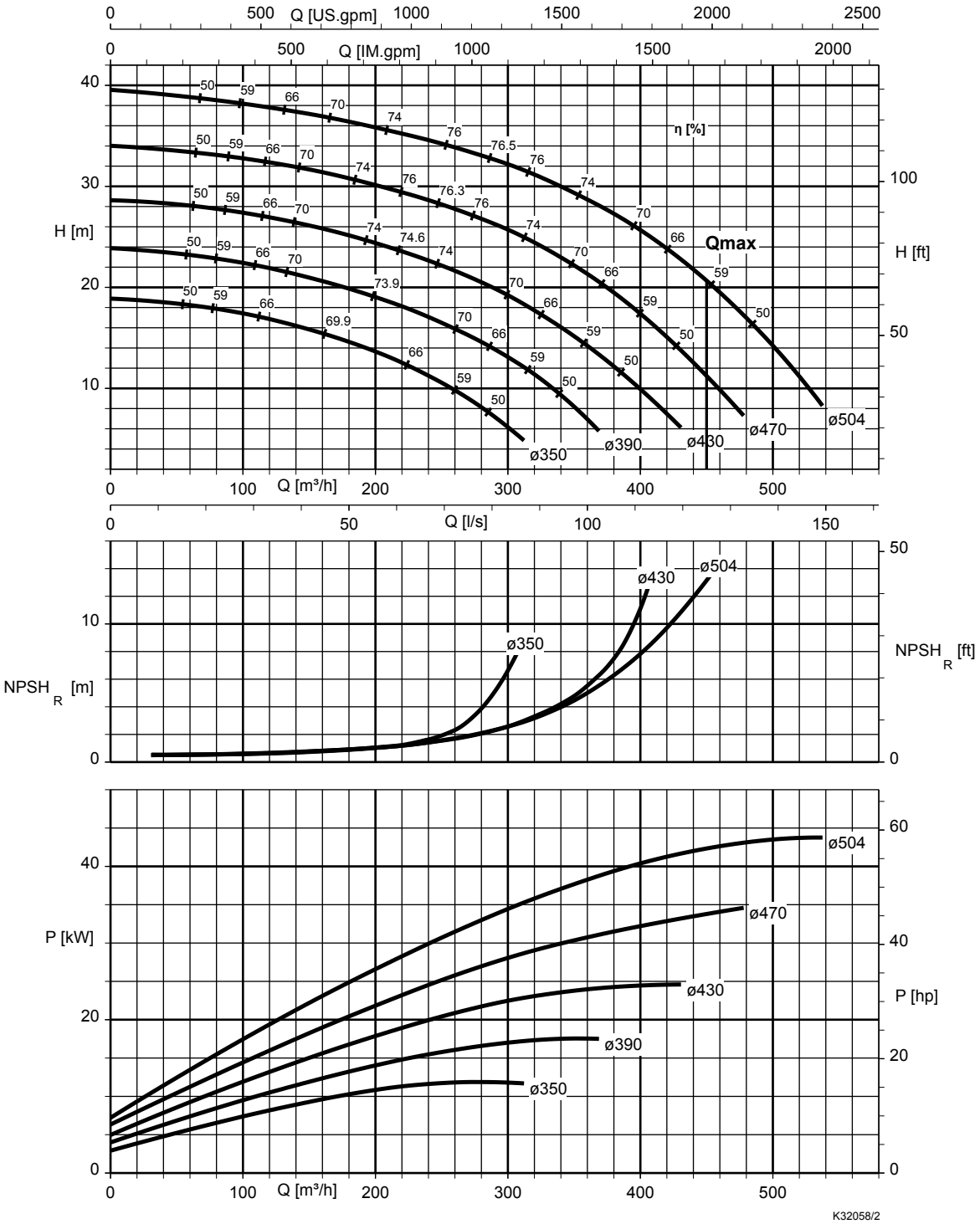
KWP K 125-100-403, n = 960 t/min



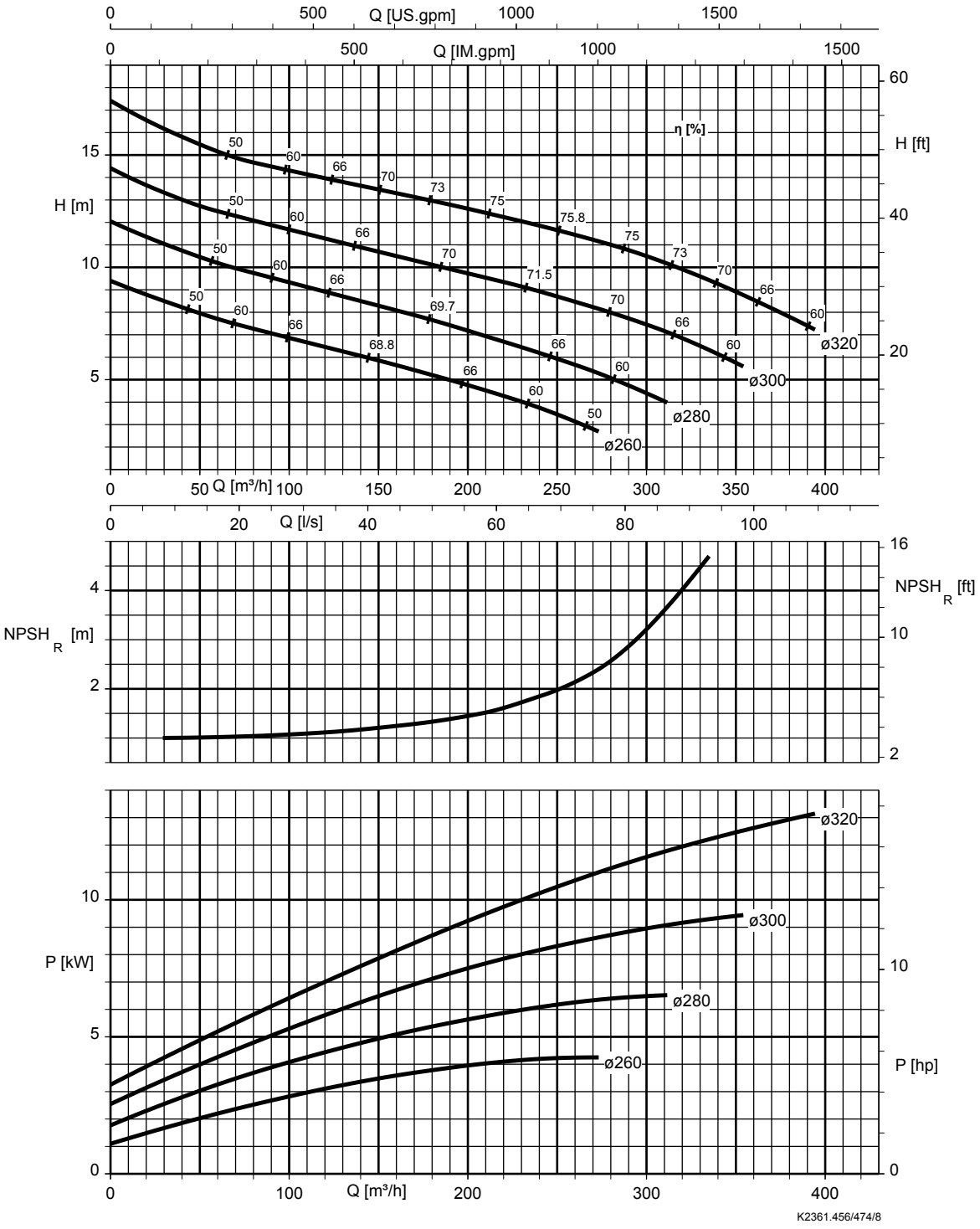
KWP K 150-125-500, n = 960 t/min



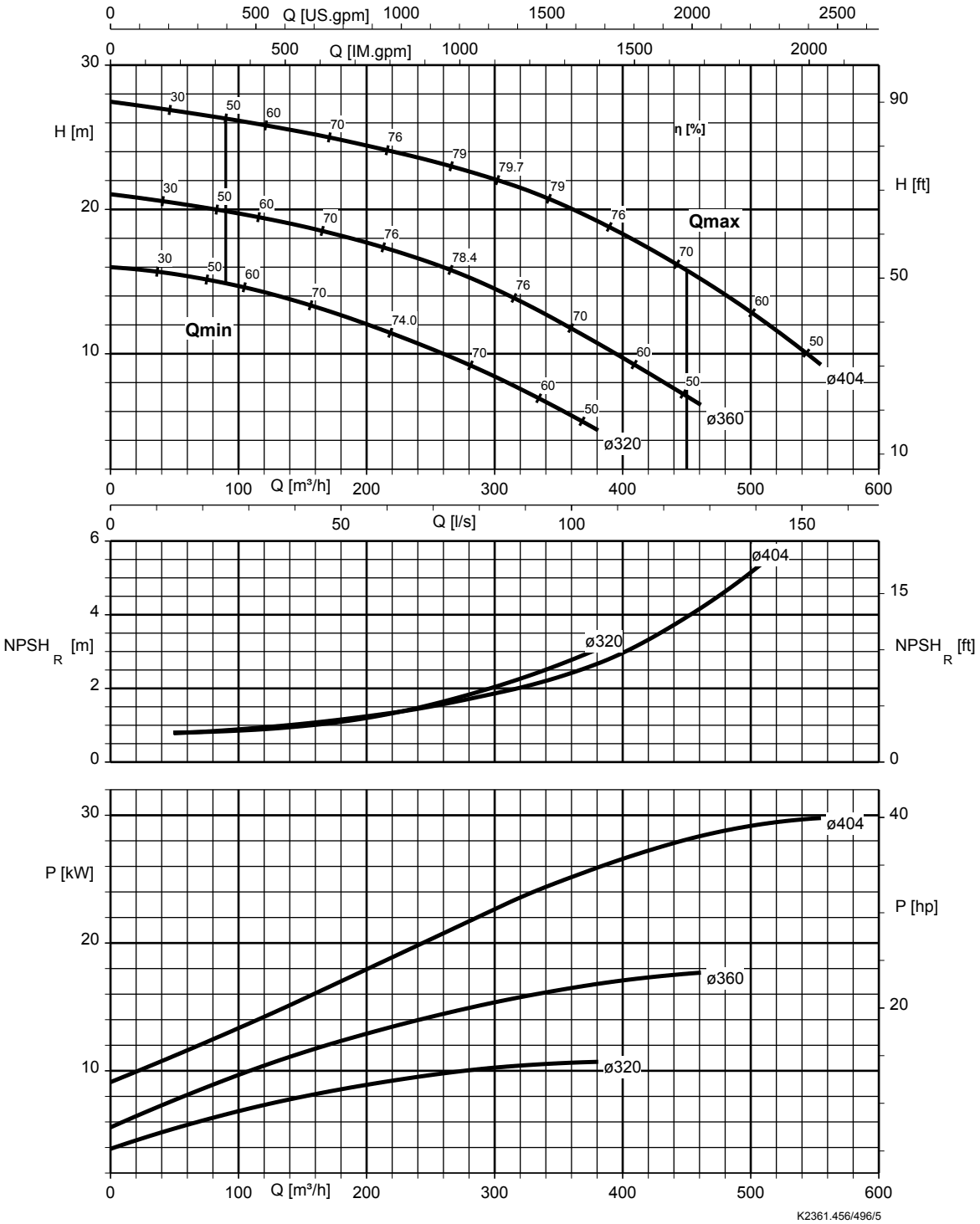
KWP K 150-125-503, n = 960 t/min



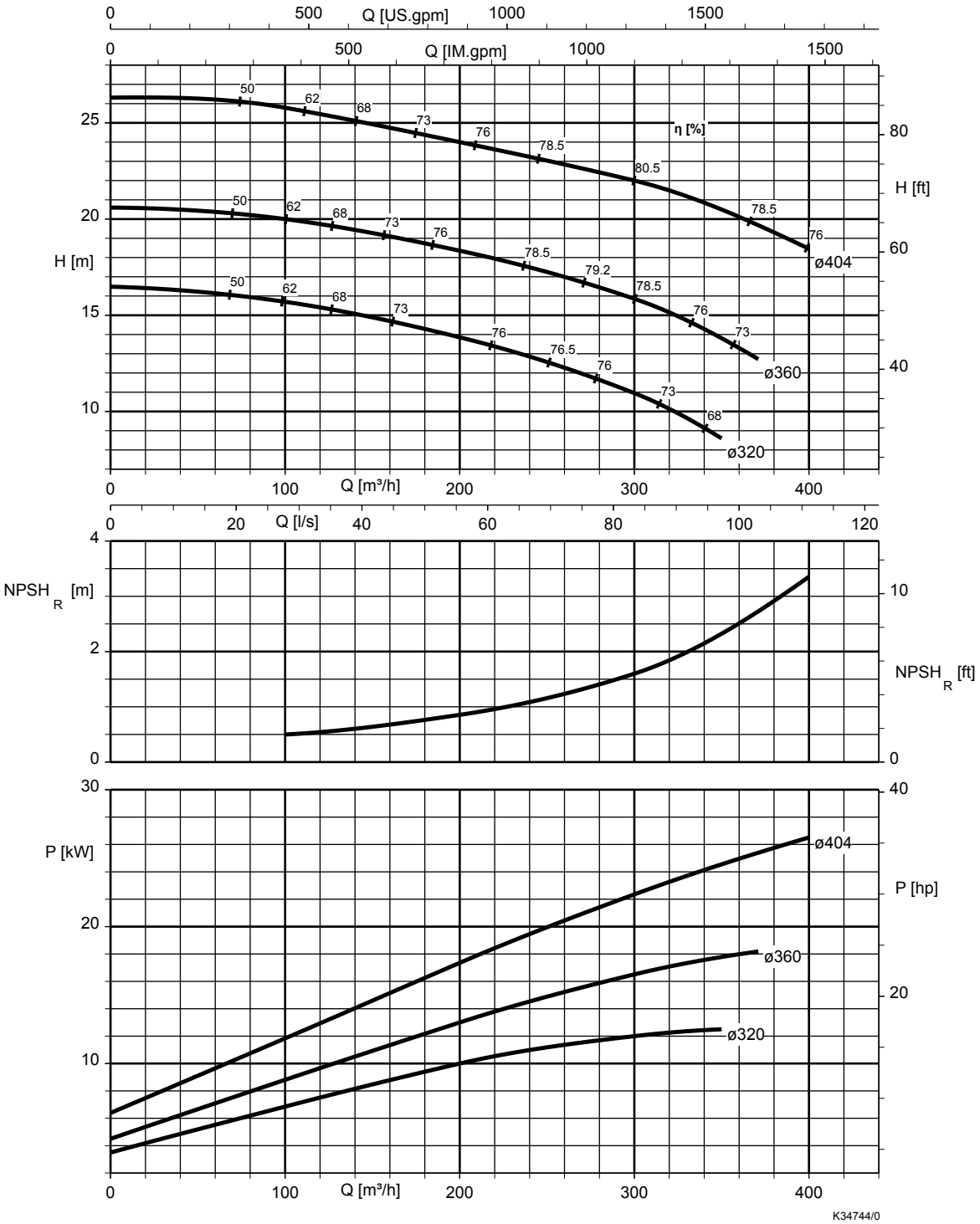
KWP K 150-150-315, n = 960 t/min



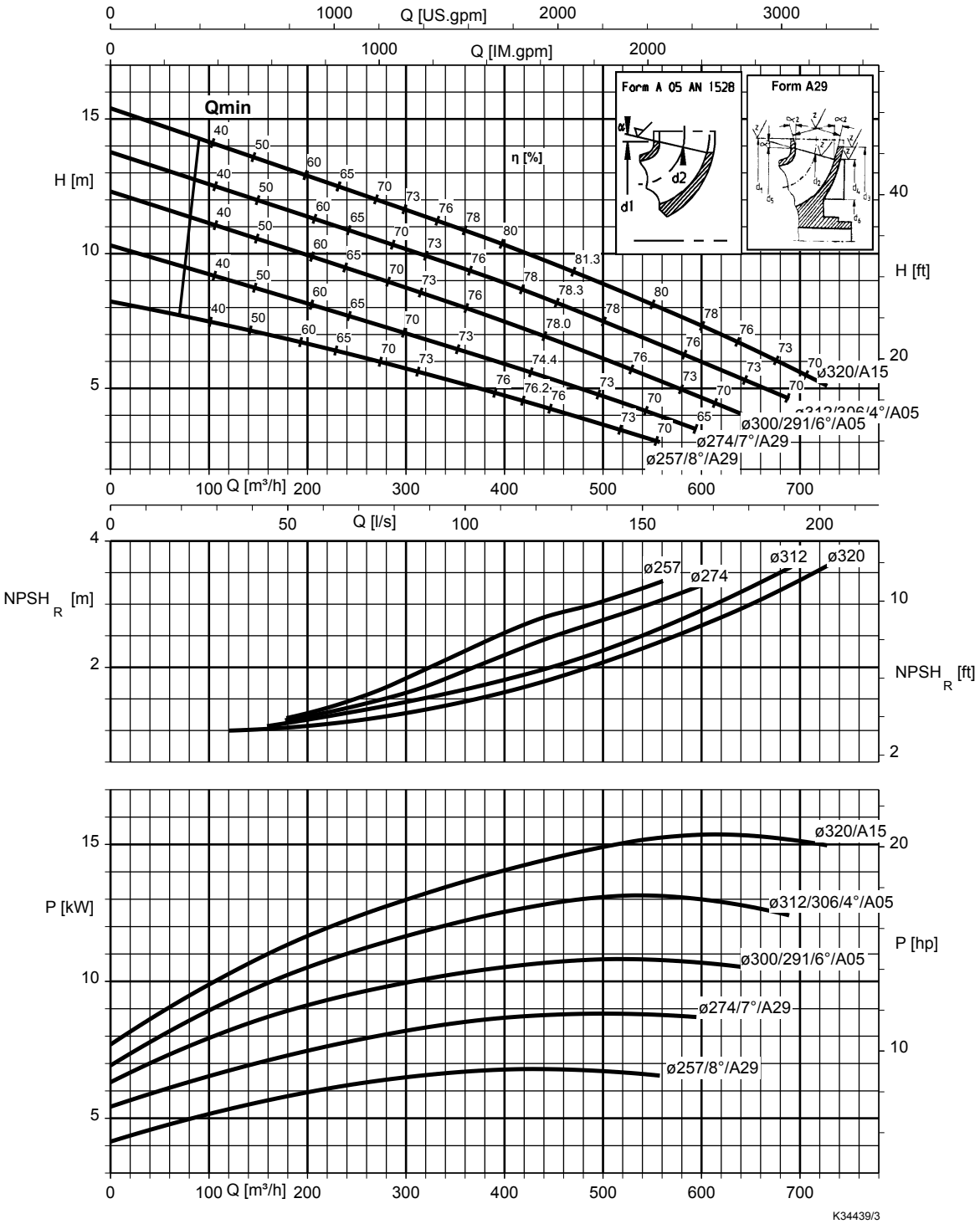
KWP K 150-150-400, n = 960 t/min



KWP K 150-150-403, n = 960 t/min



KWP K 200-200-320, n = 960 t/min



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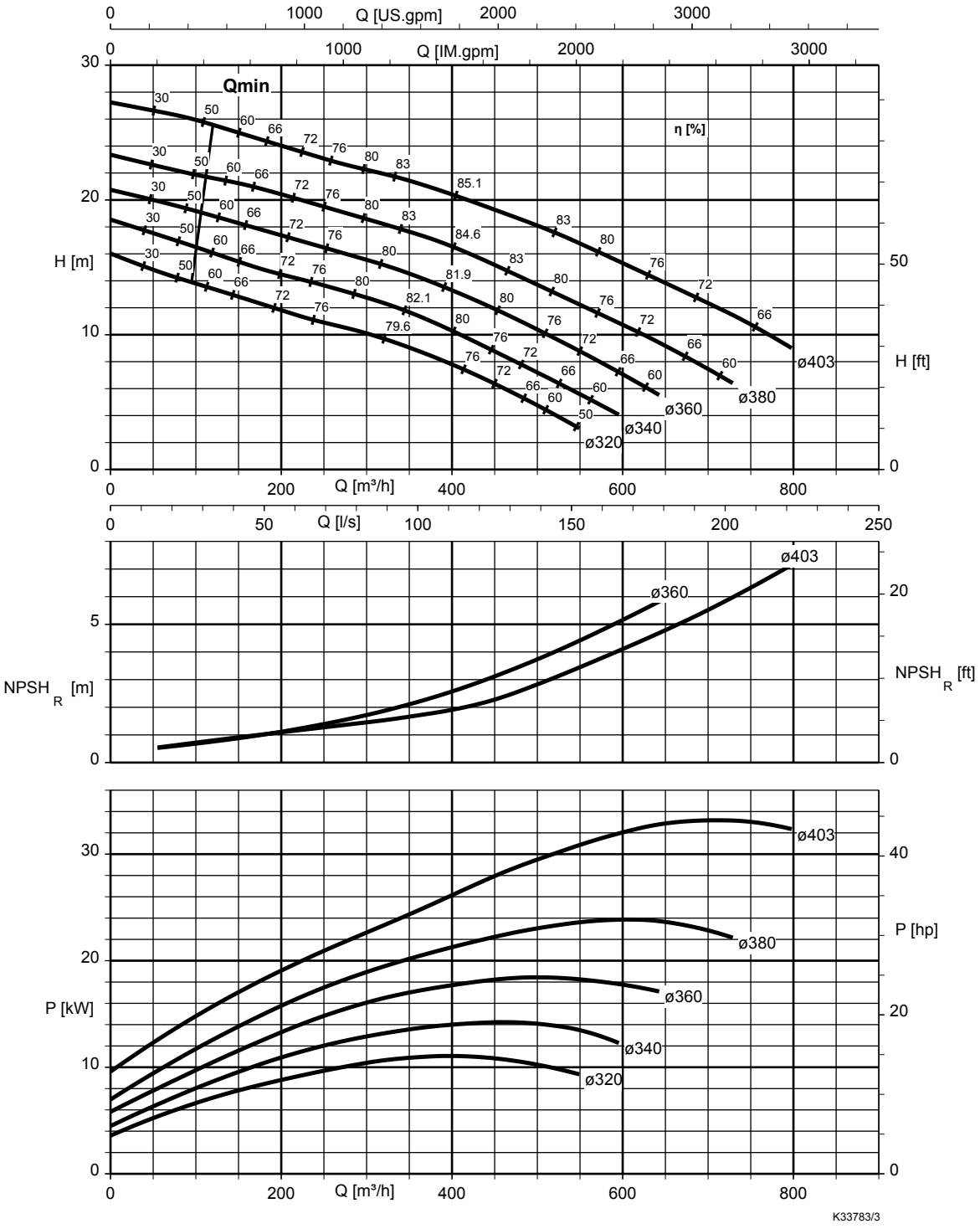

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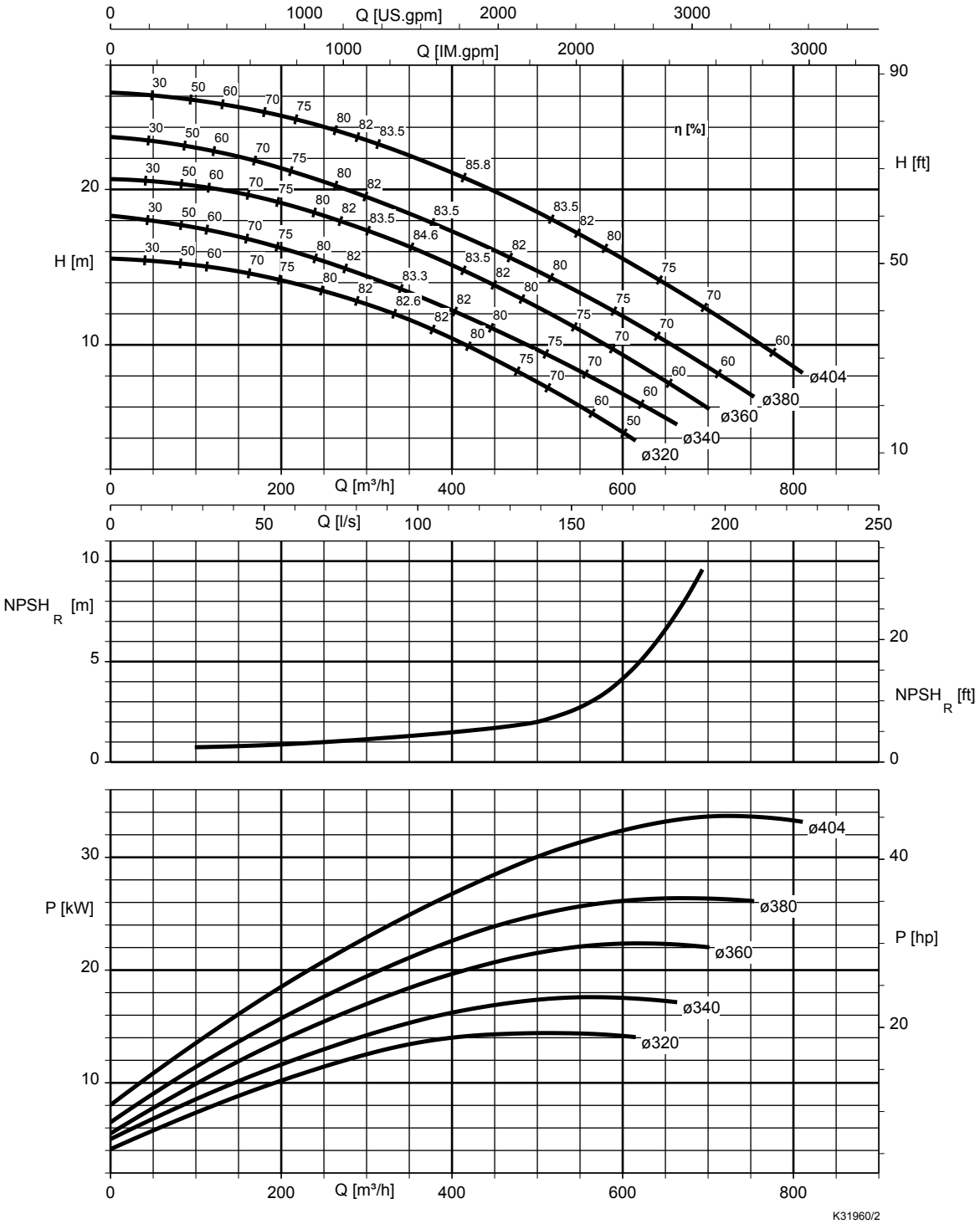
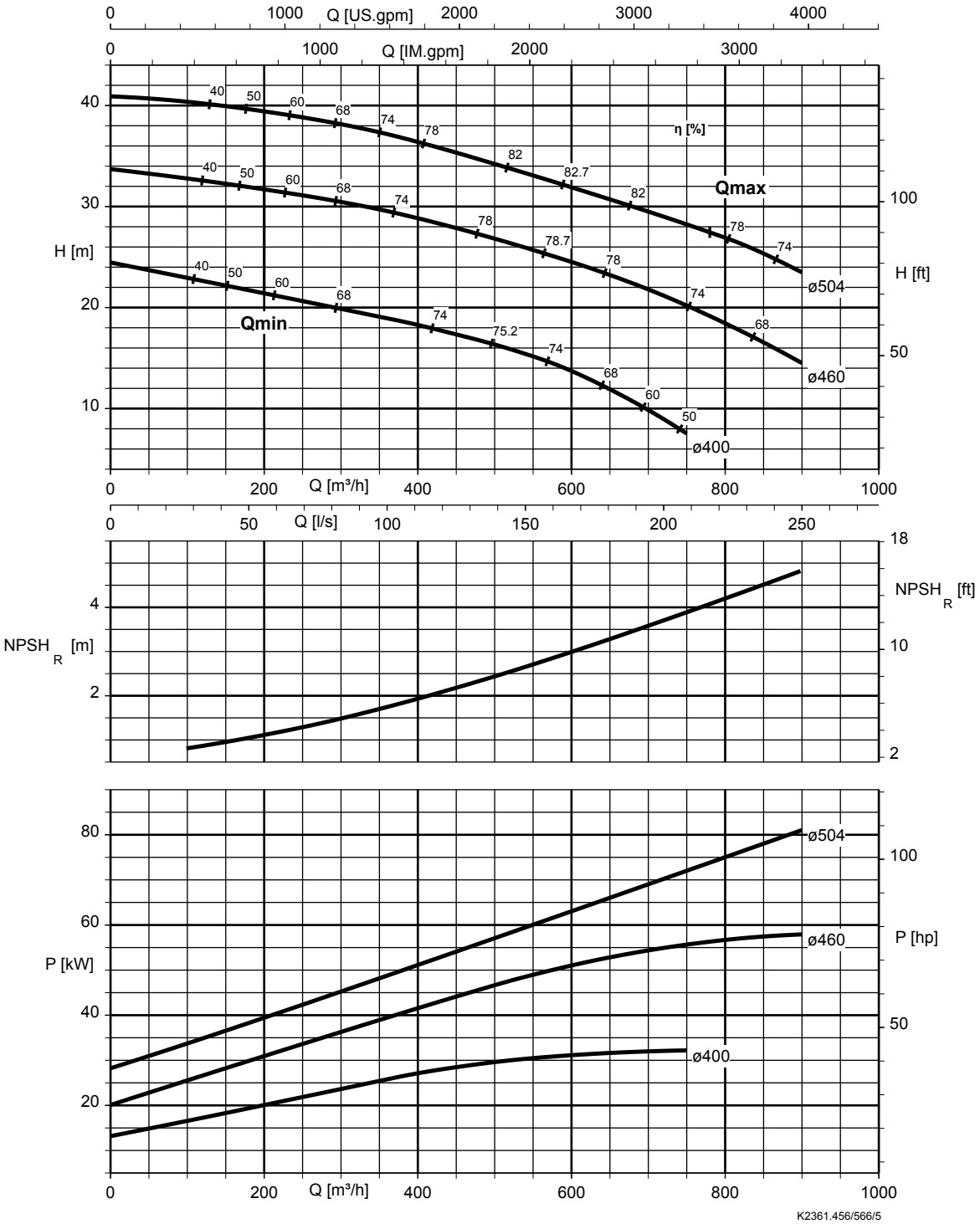
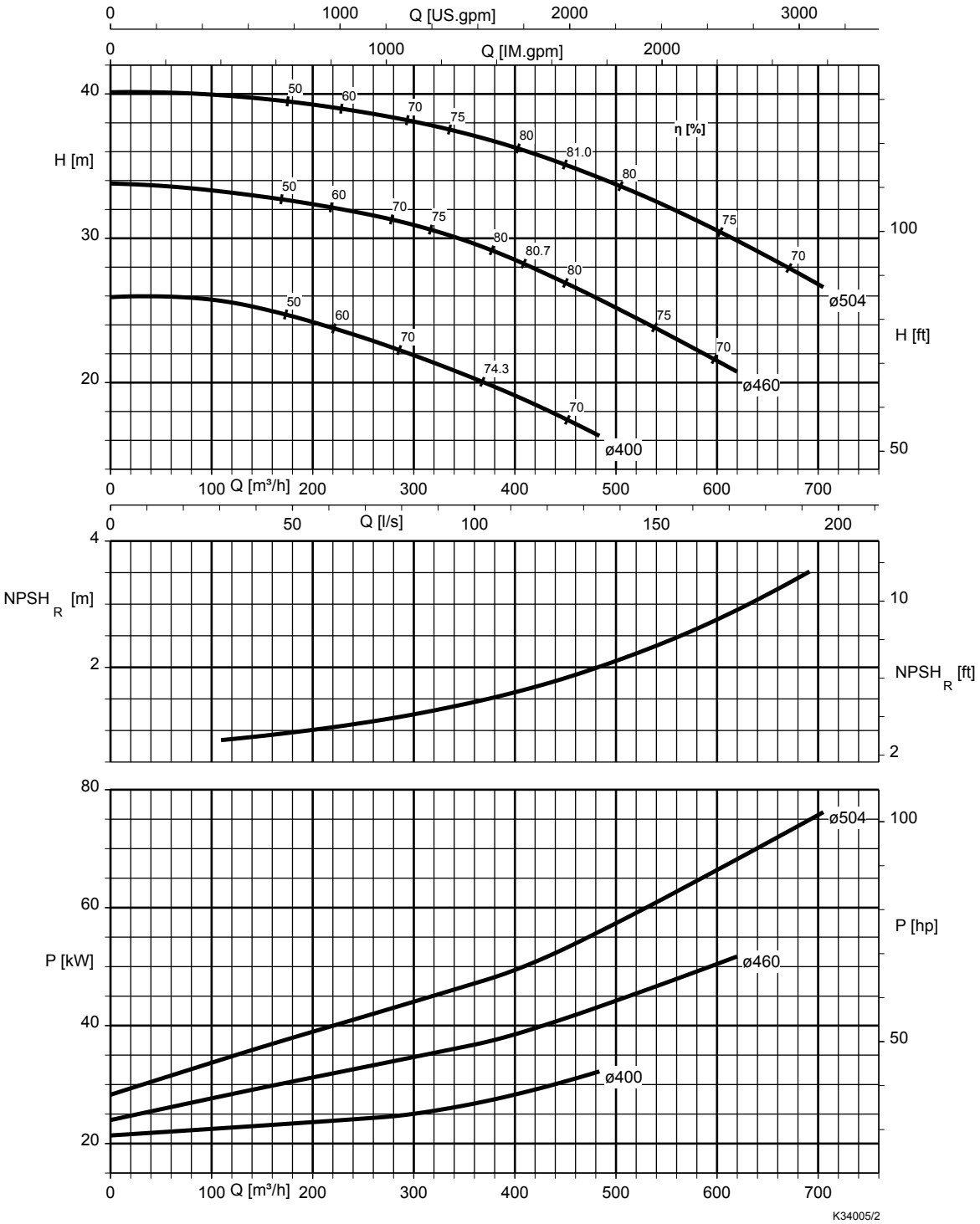


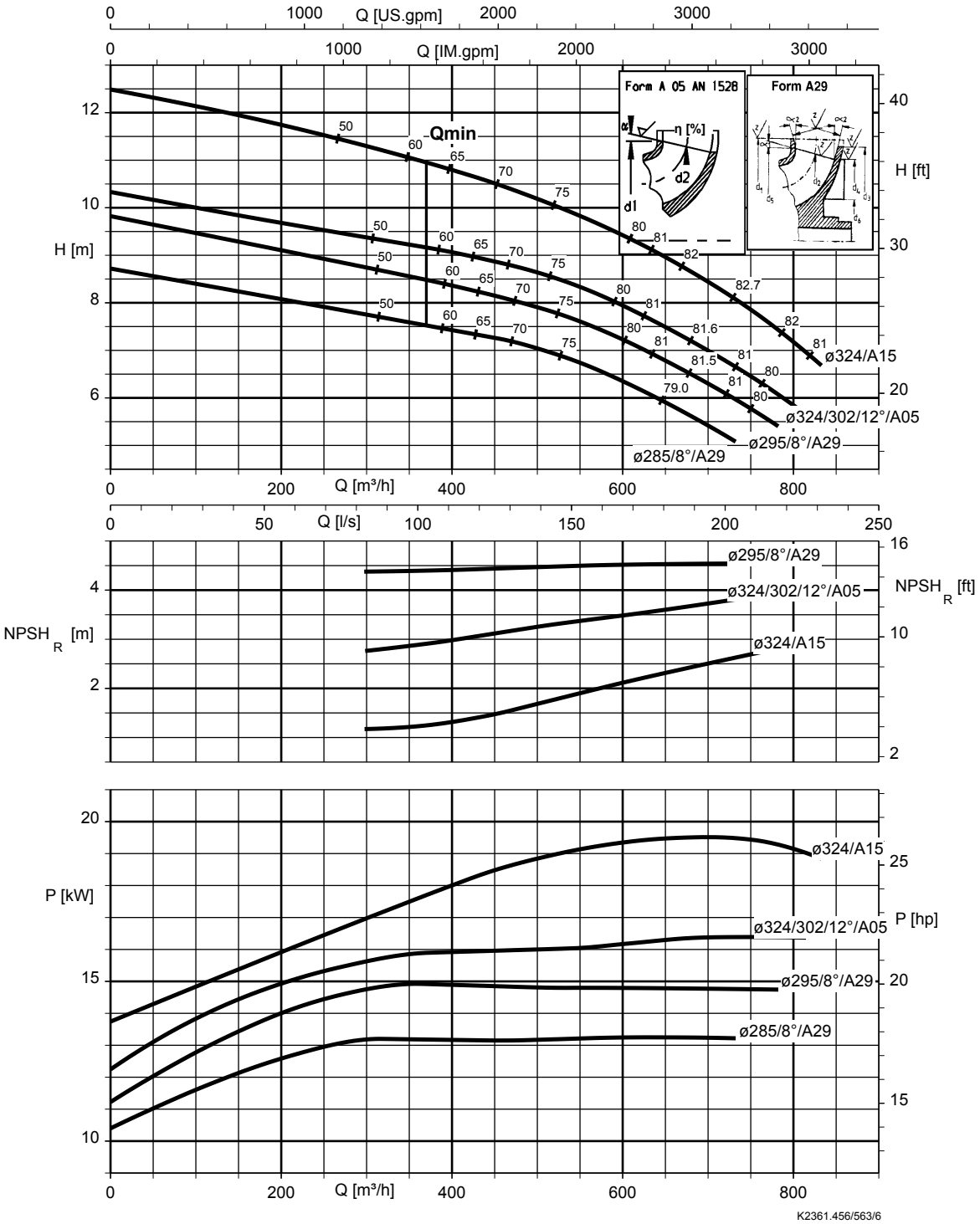
KWP K 200-200-501, n = 960 t/min



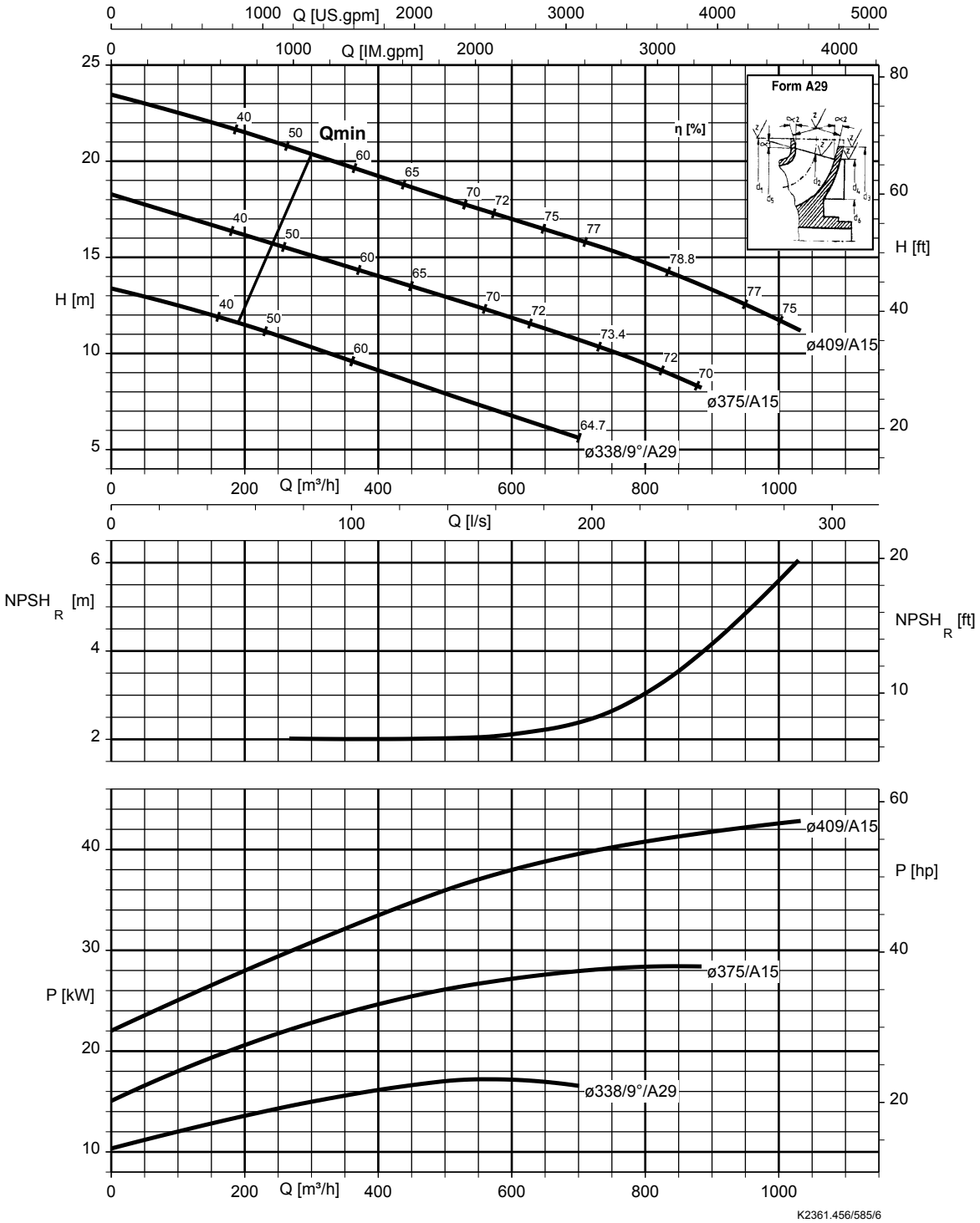
KWP K 200-200-503, n = 960 t/min



KWP K 250-250-315, n = 960 t/min



KWP K 250-250-400, n = 960 t/min



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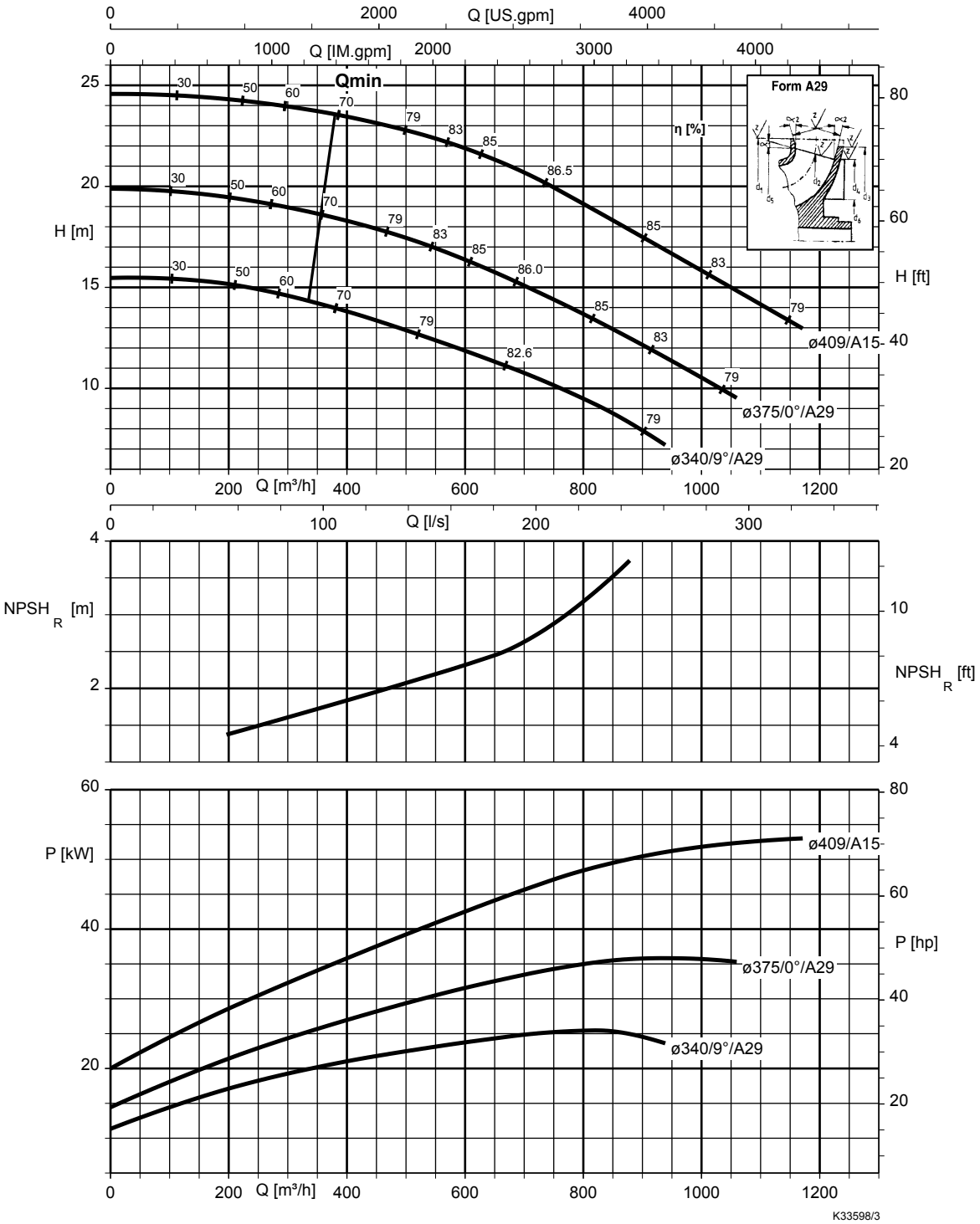
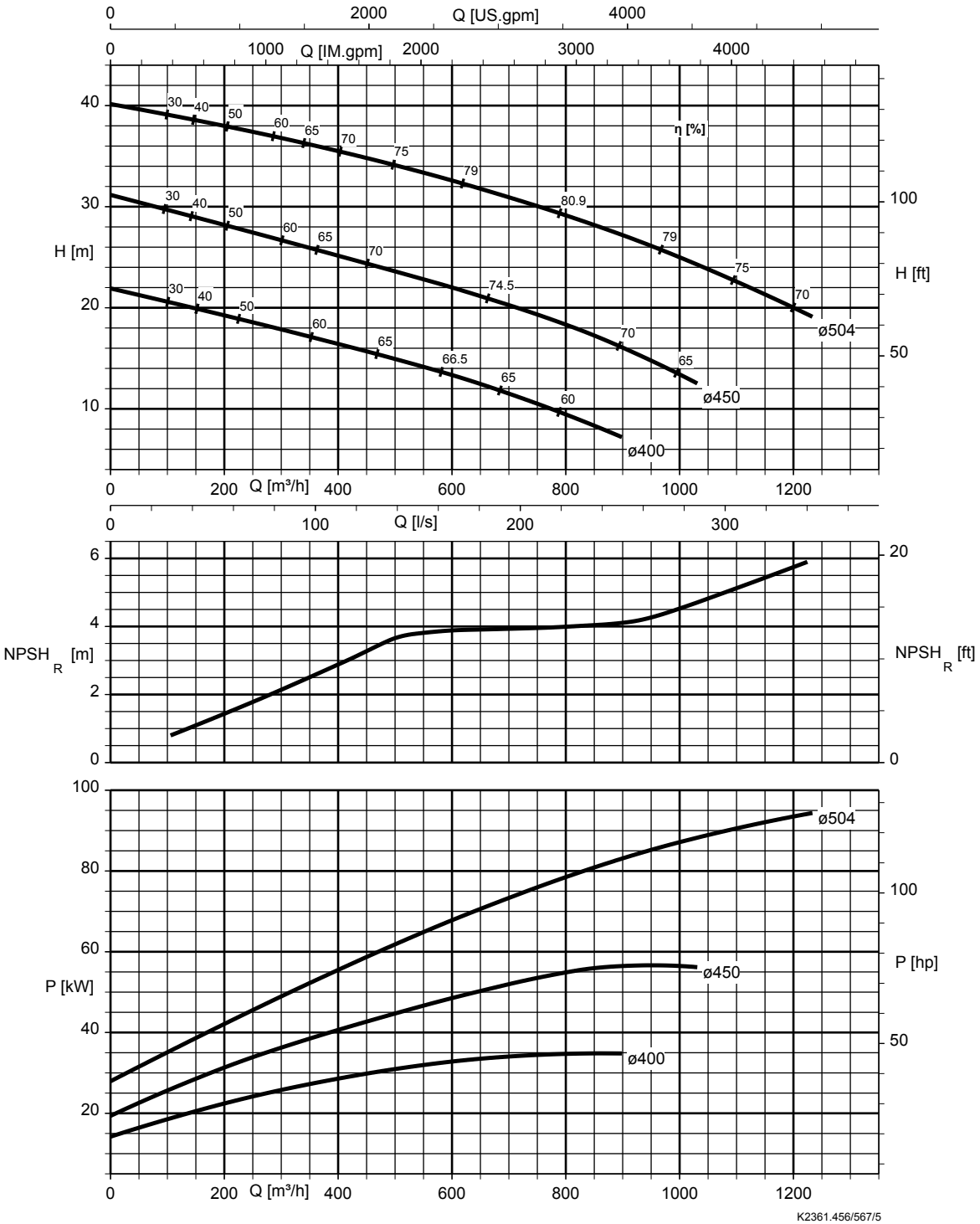


KWP K 250-250-500, n = 960 t/min



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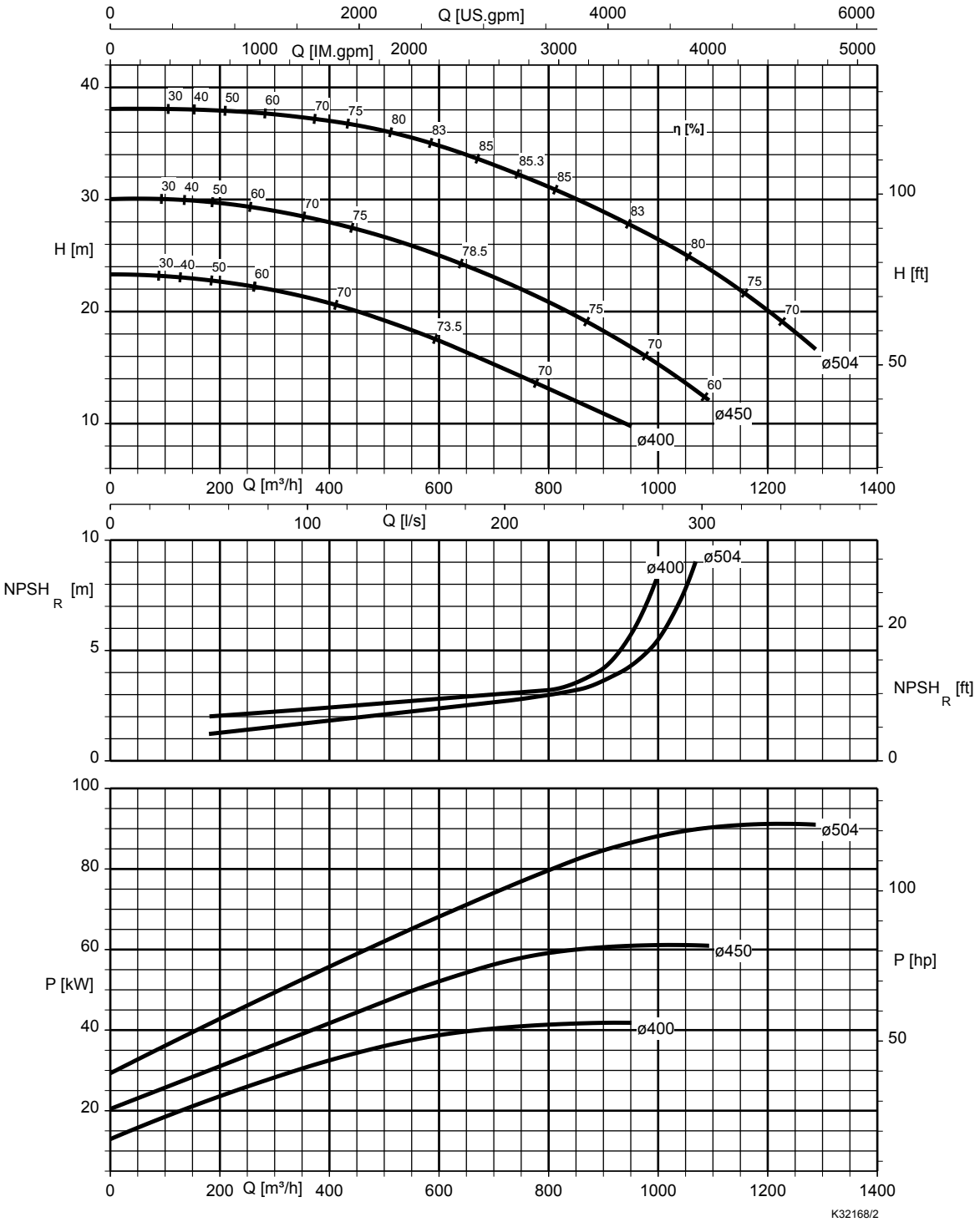
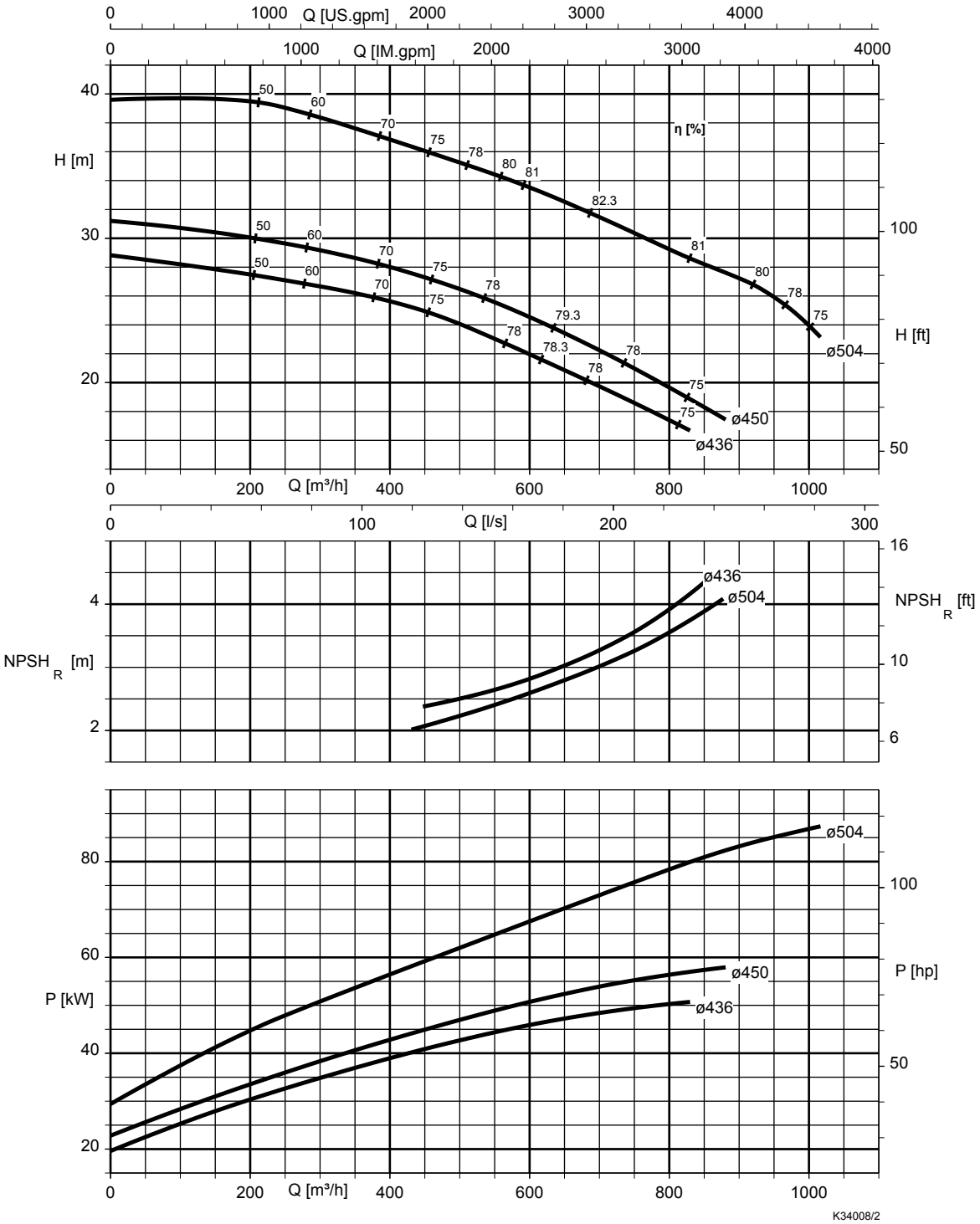
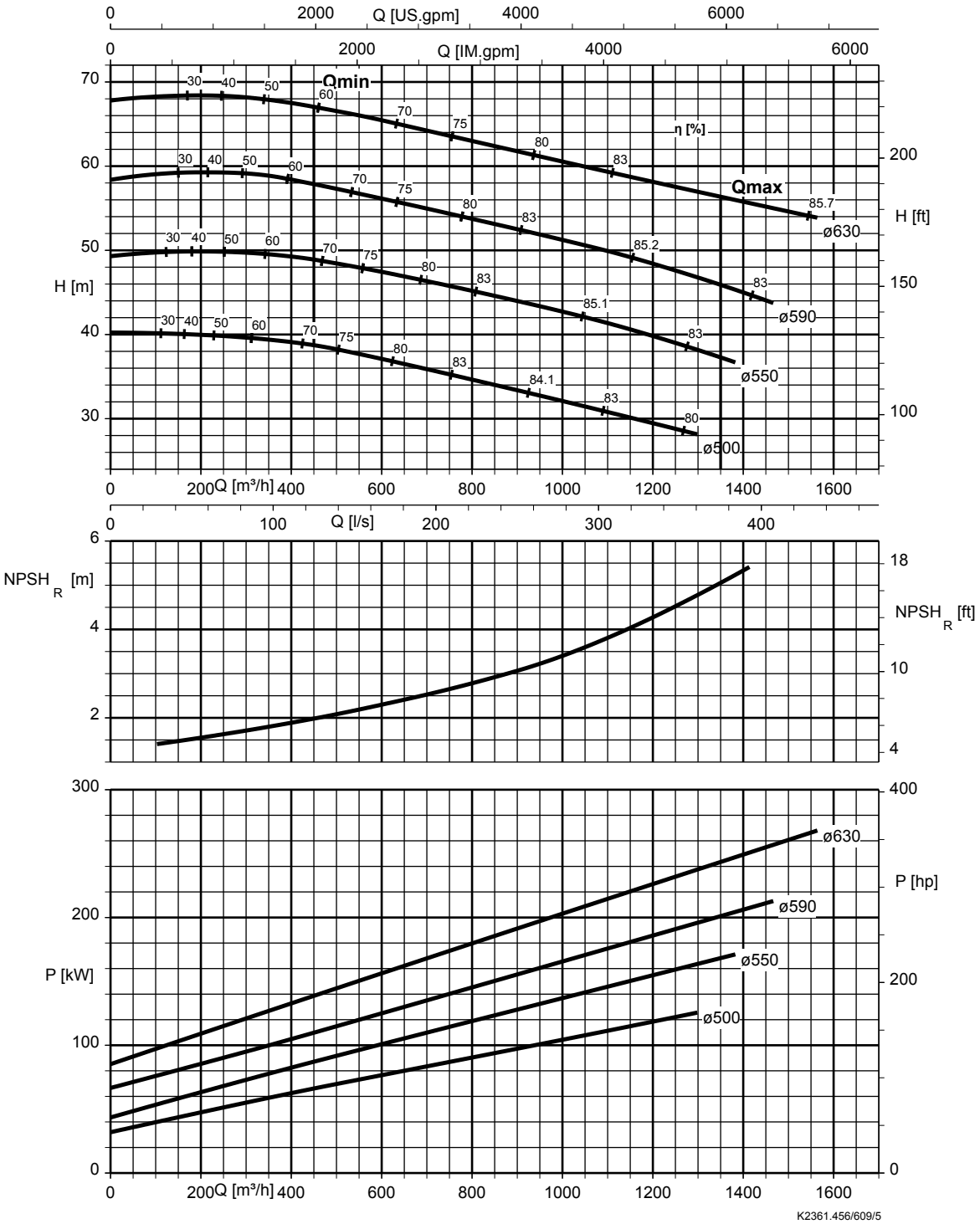


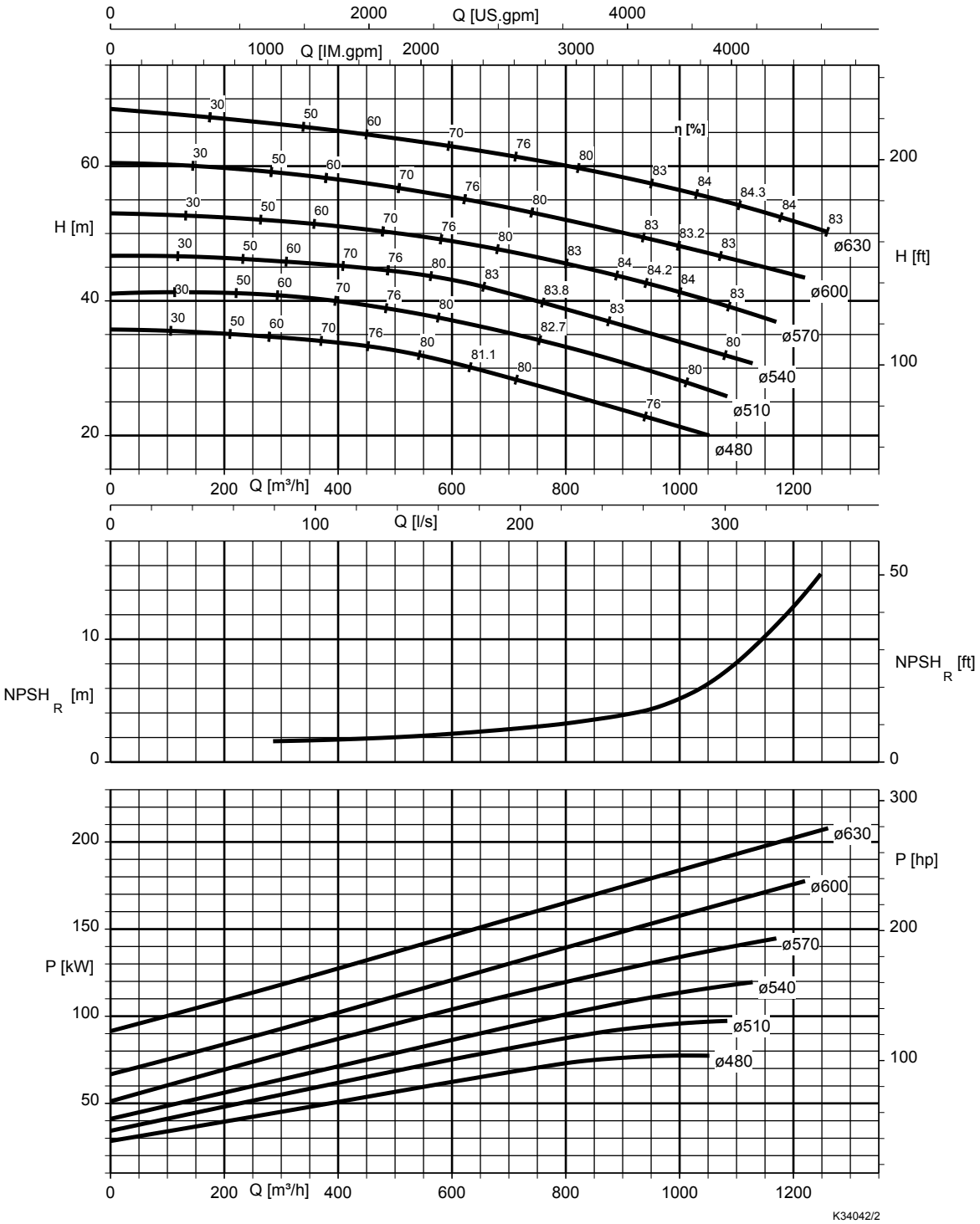
KWP K 250-250-505, n = 960 t/min



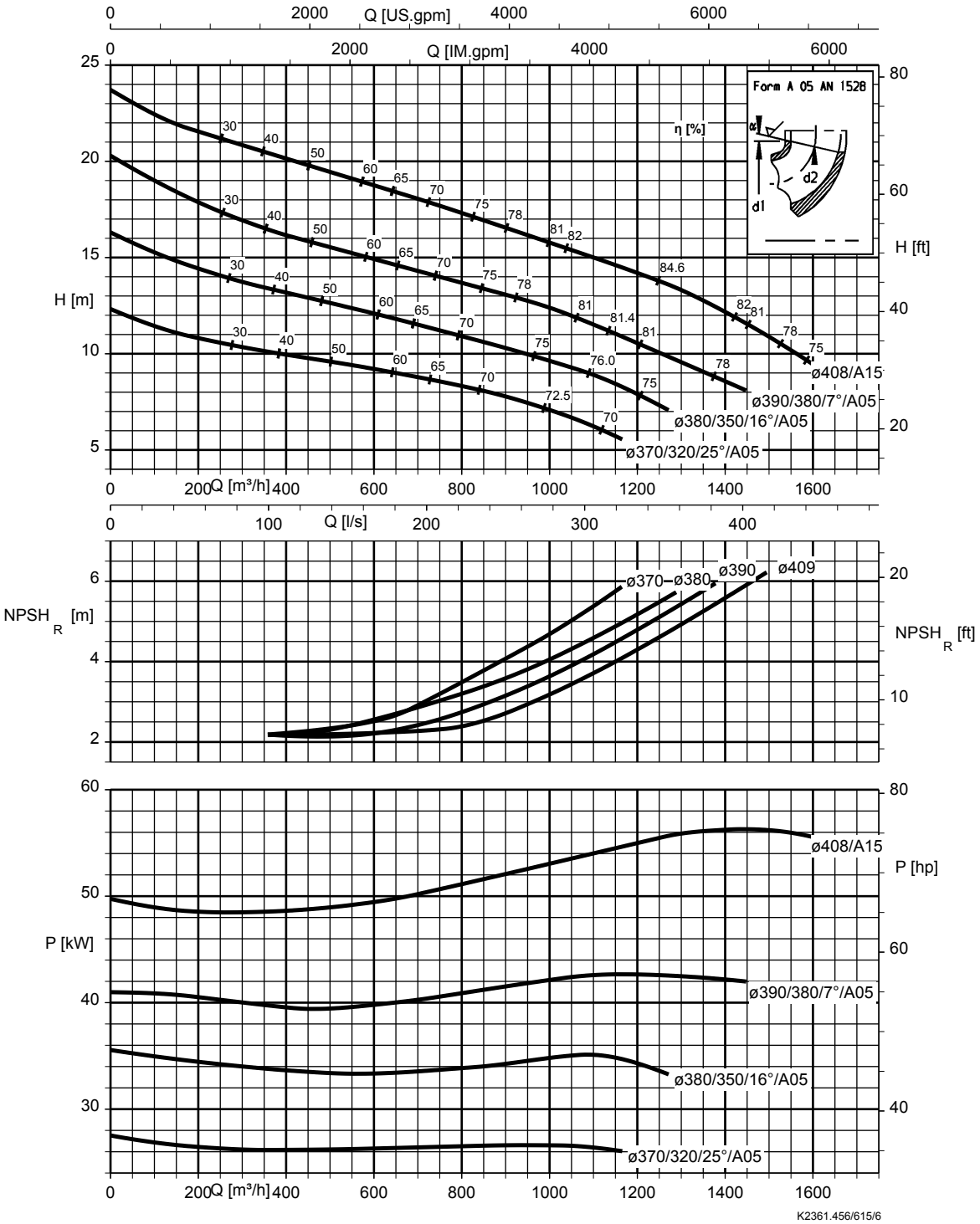
KWP K 250-250-630, n = 960 t/min



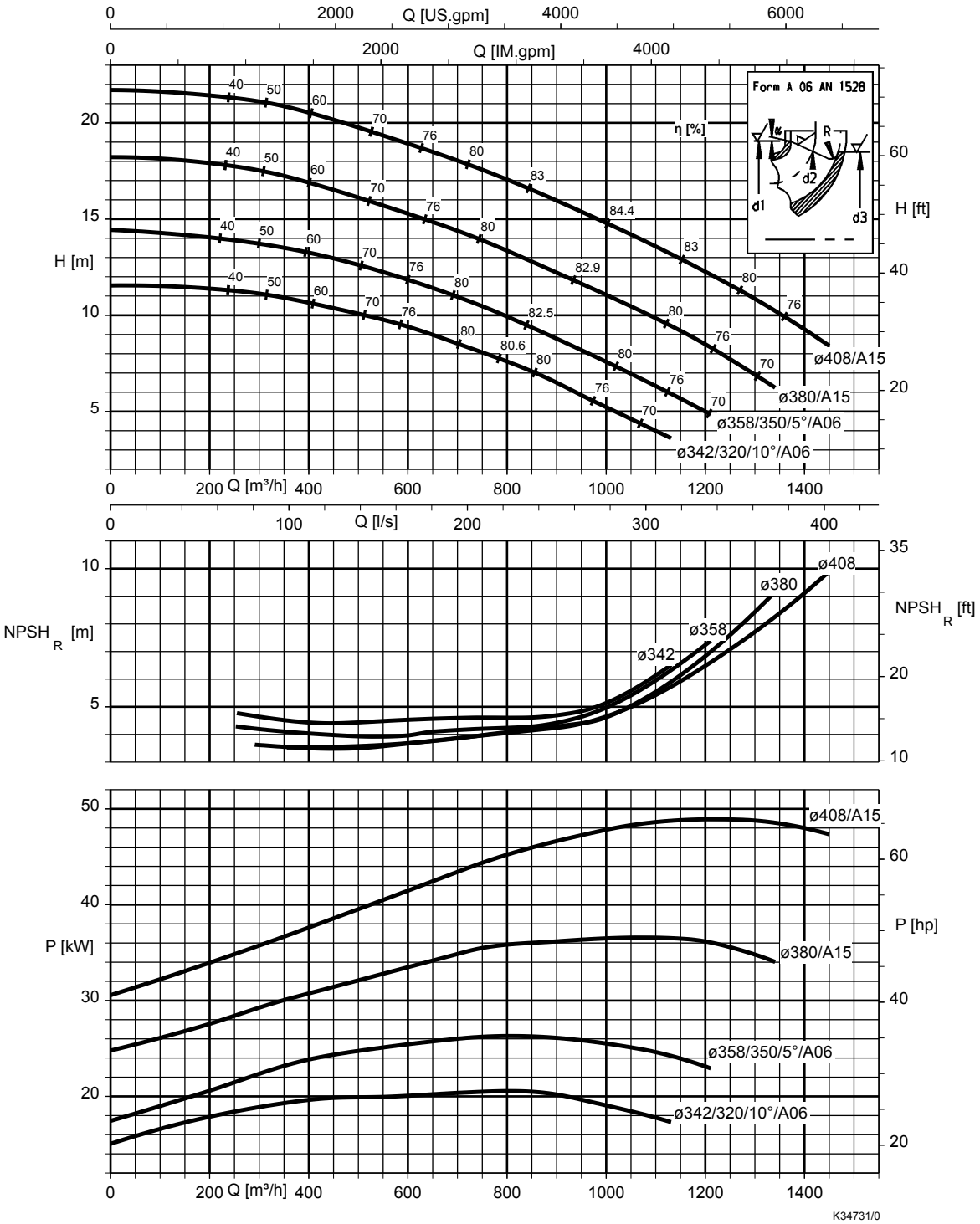
KWP K 250-250-634, n = 960 t/min



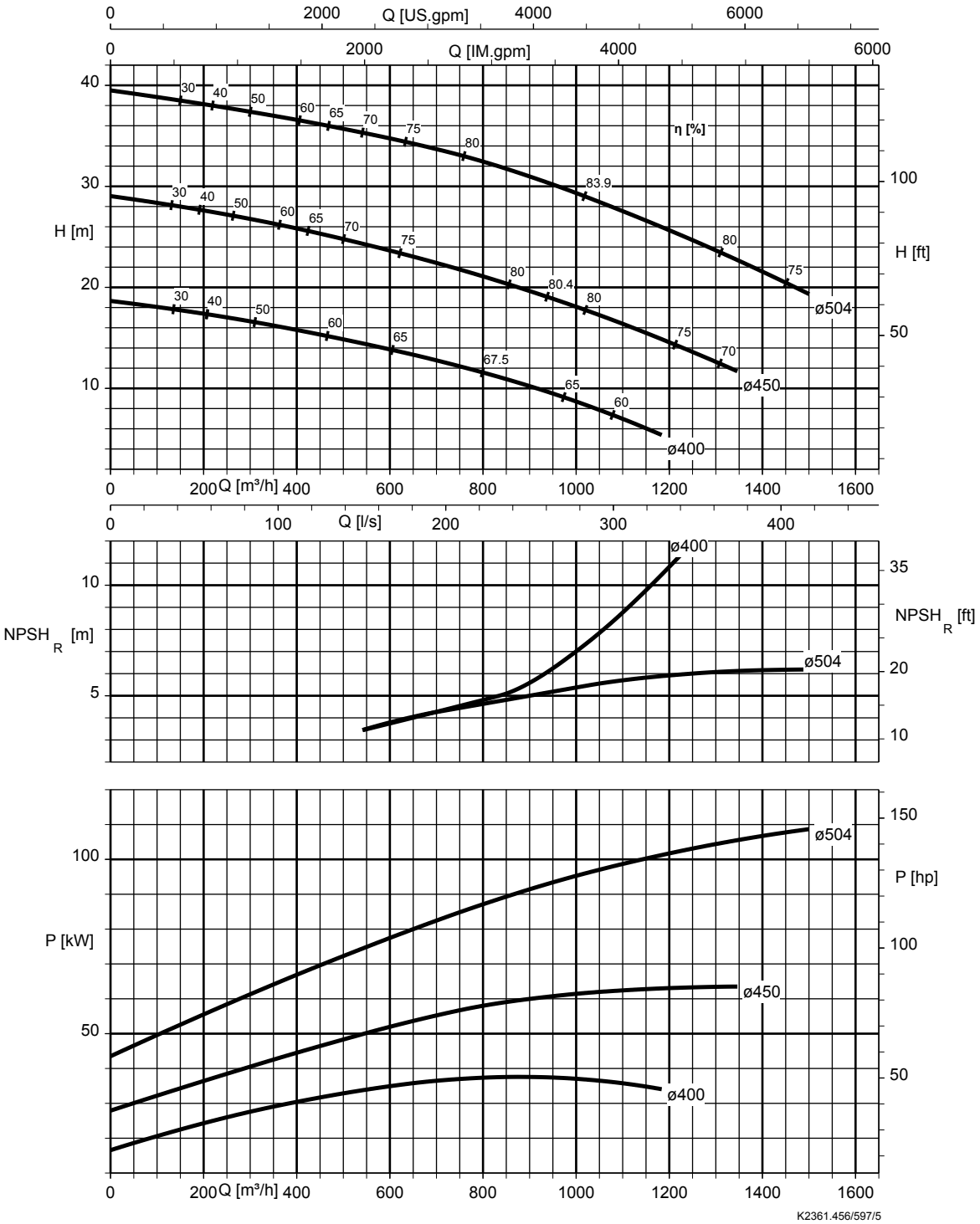
KWP K 300-300-400, n = 960 t/min



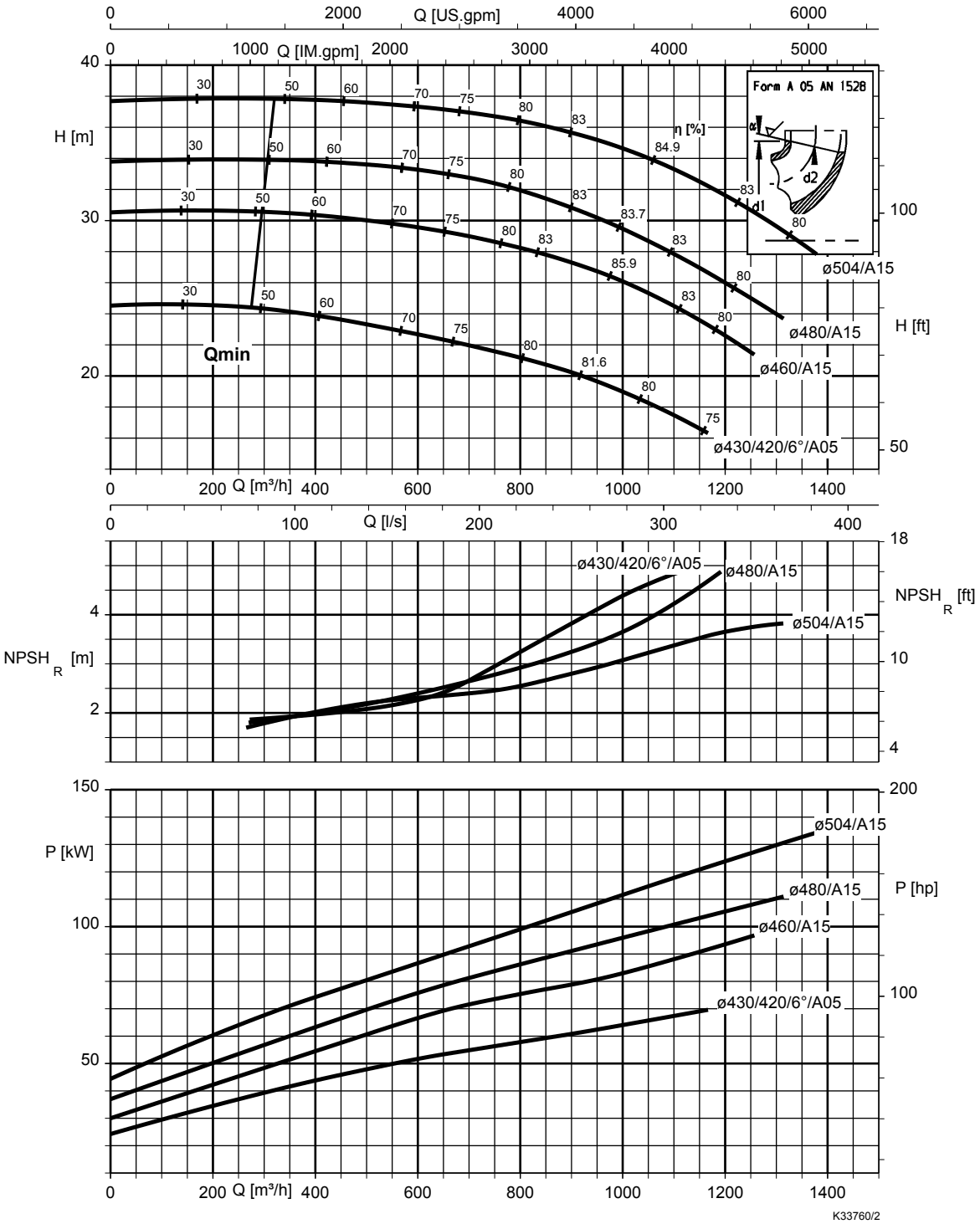
KWP K 300-300-401, n = 960 t/min



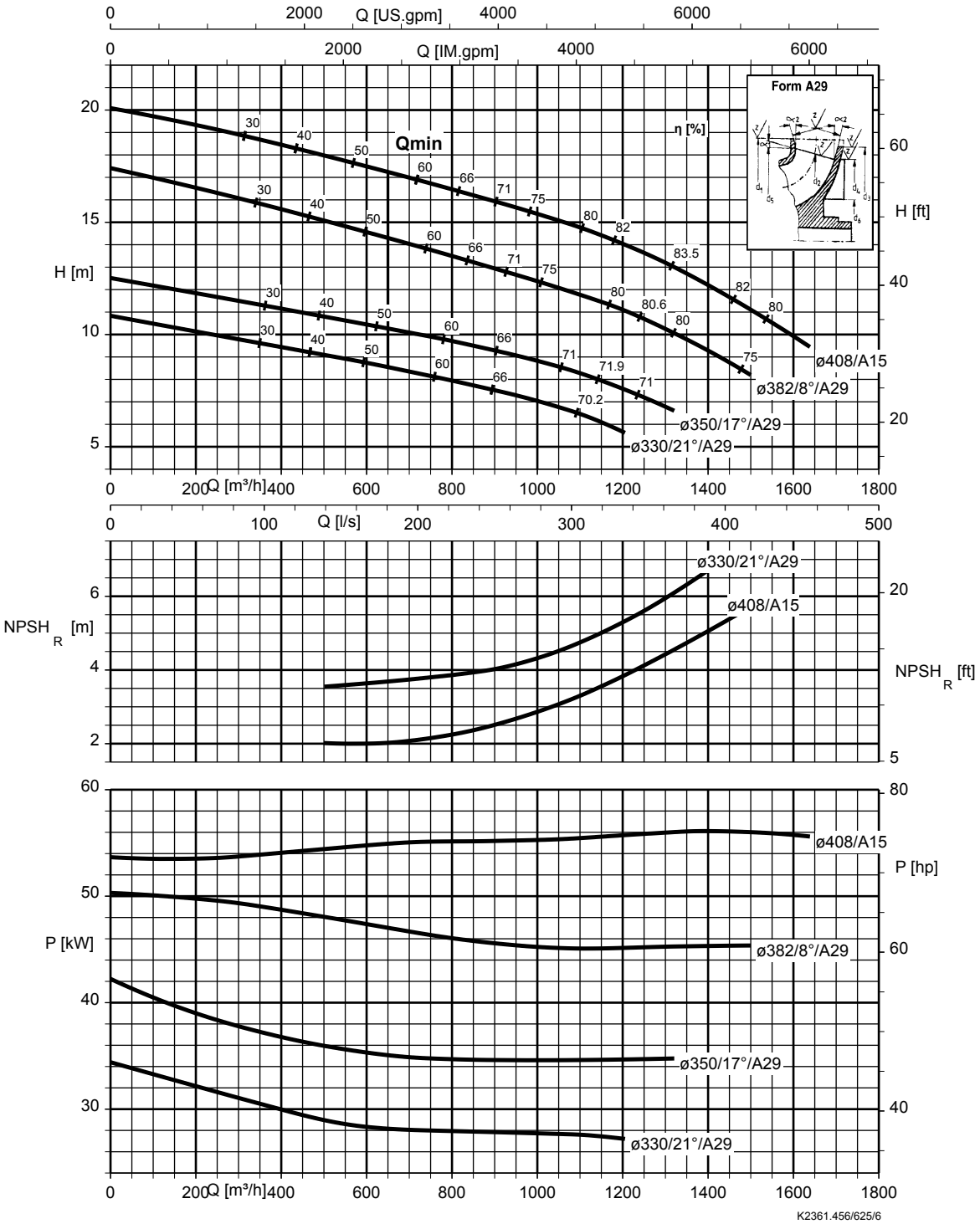
KWP K 300-300-500, n = 960 t/min



KWP K 300-300-503, n = 960 t/min



KWP K 350-350-400, n = 960 t/min



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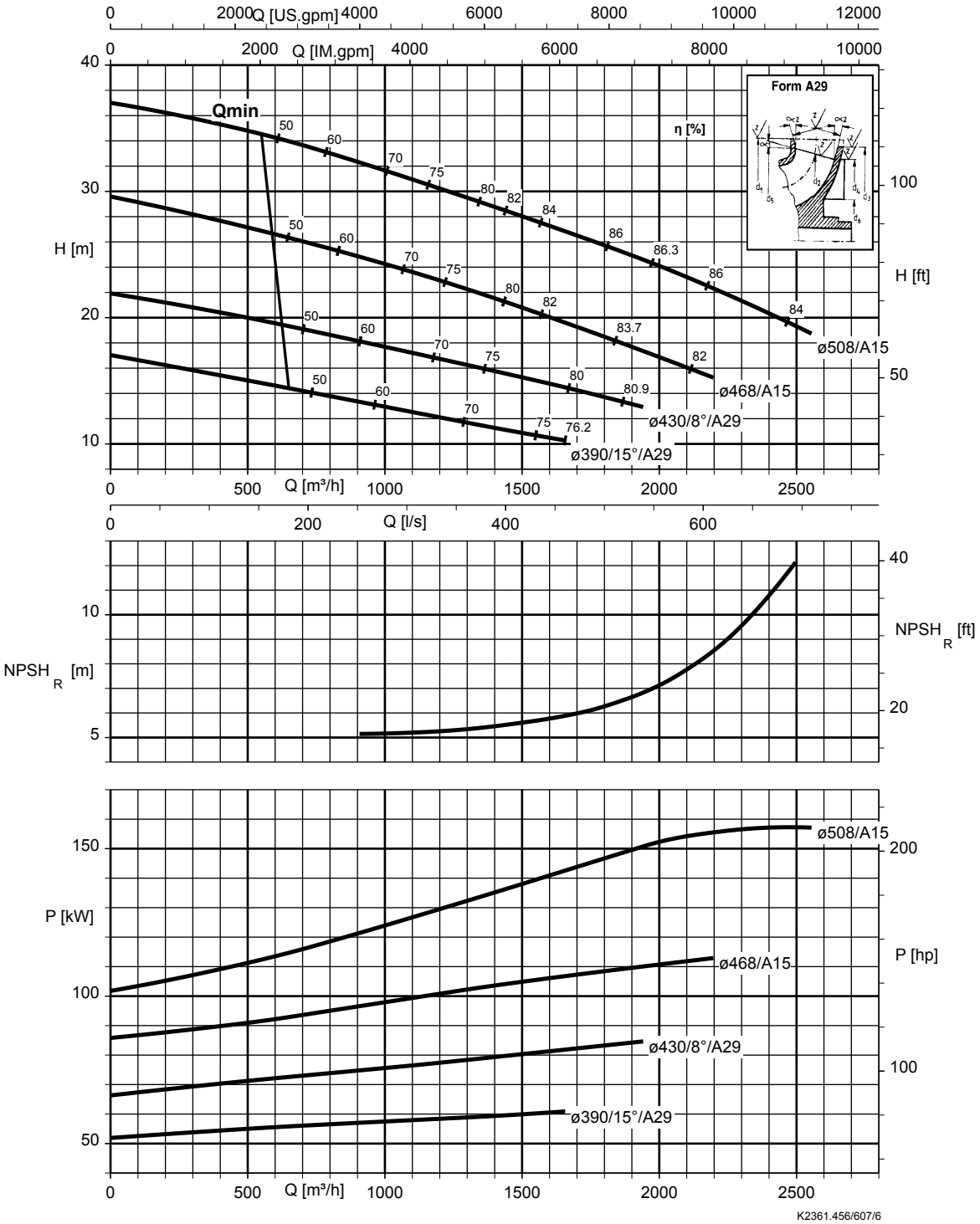

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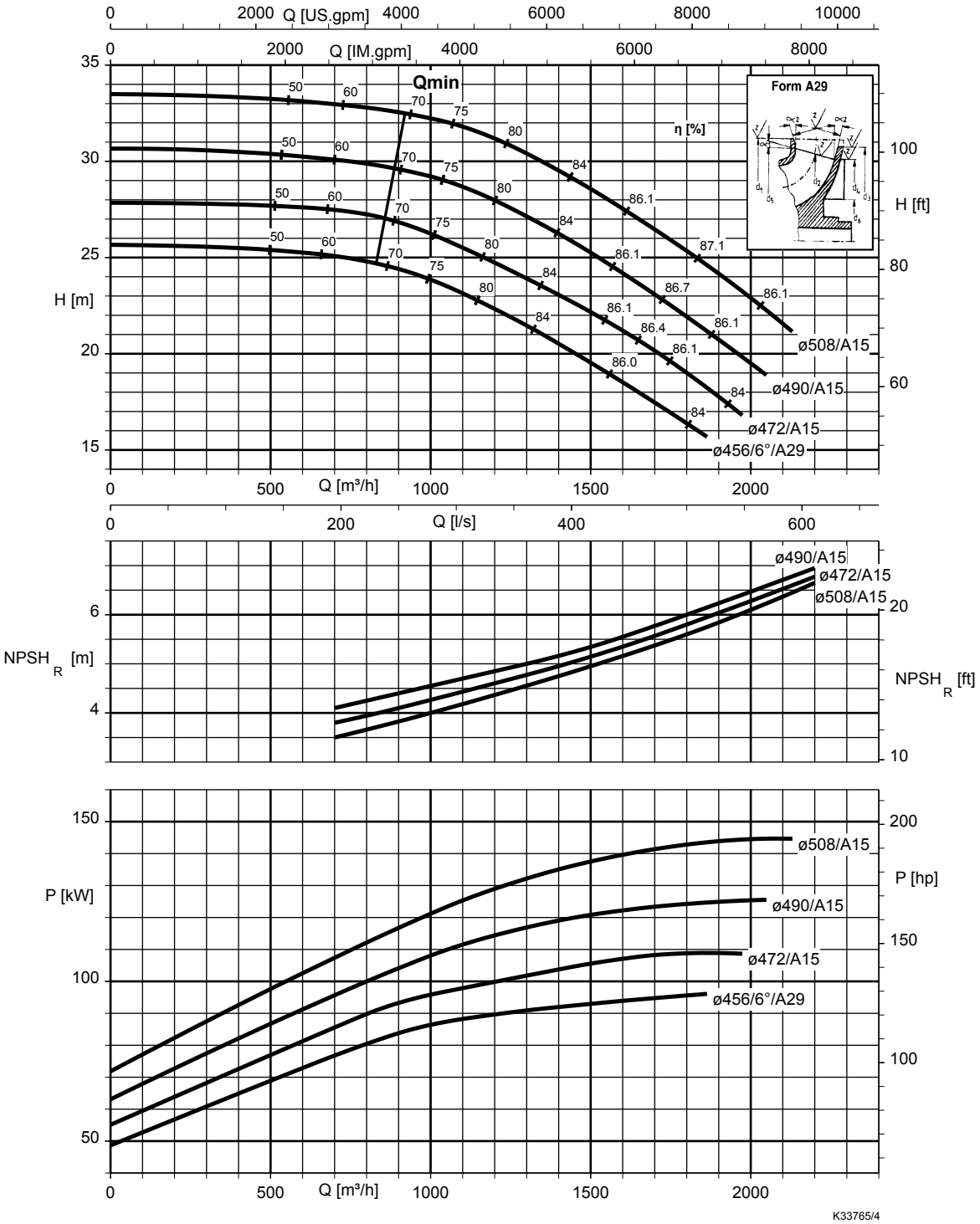
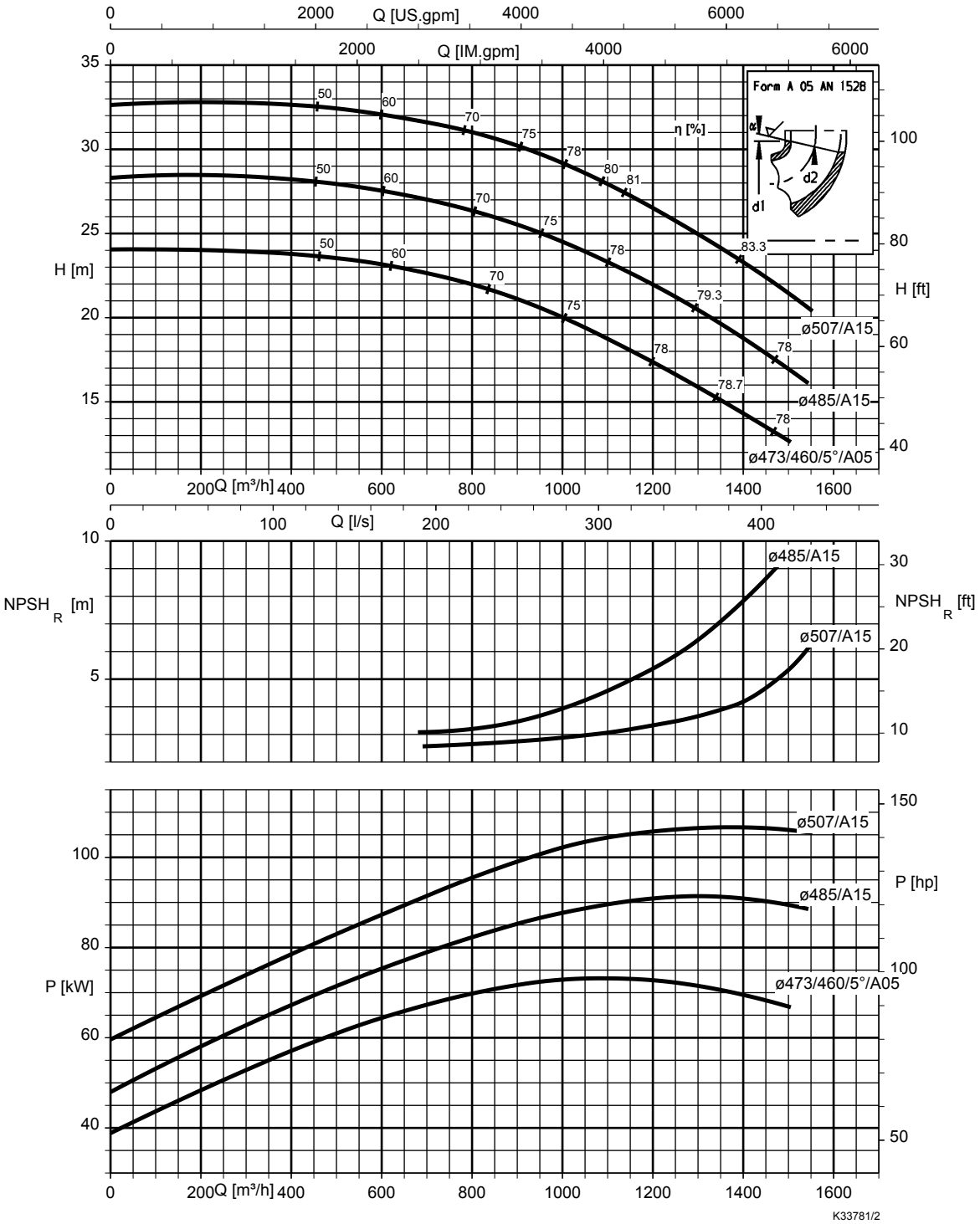
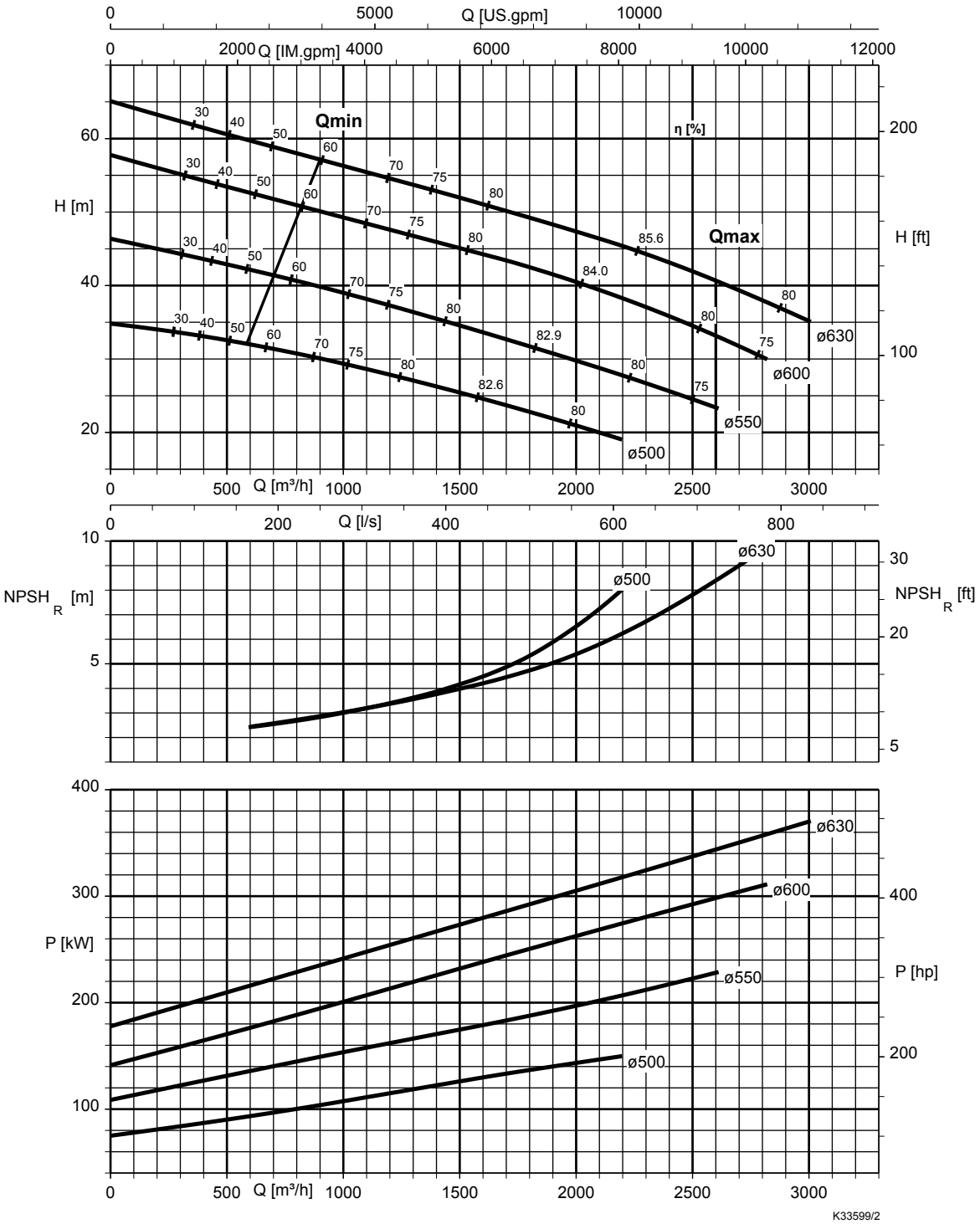


KWP K 350-350-504, n = 960 t/min



KWP K 350-350-630, n = 960 t/min



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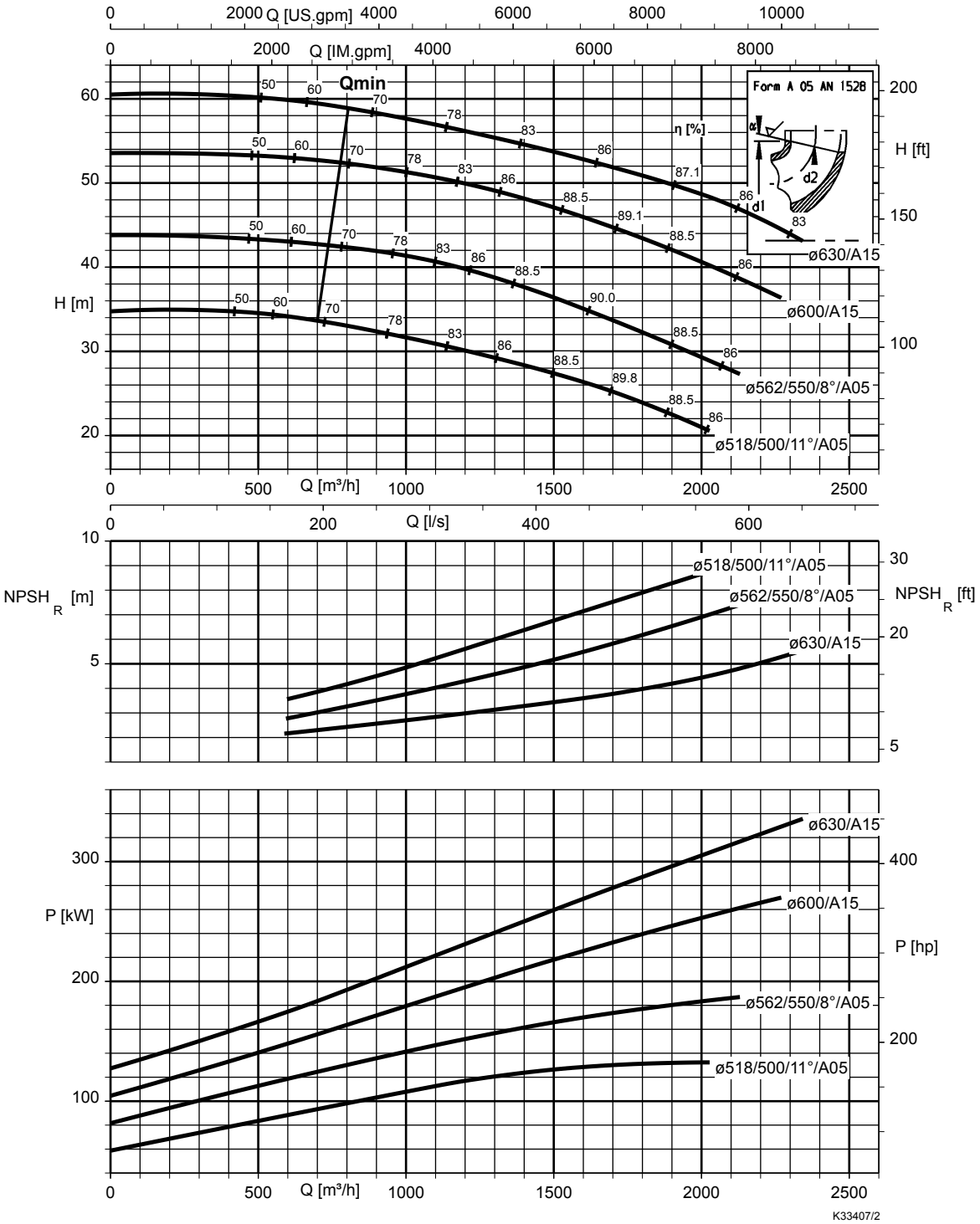
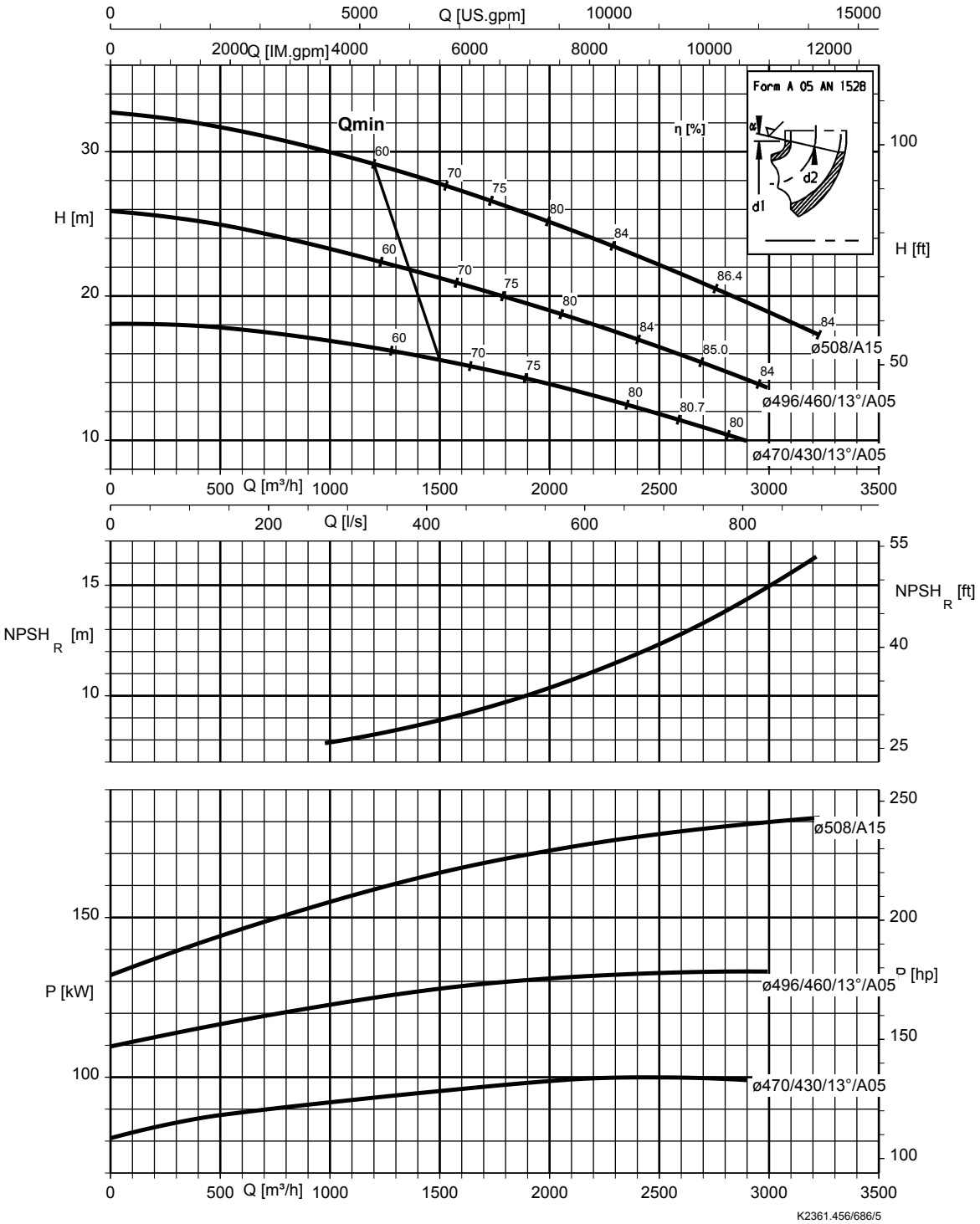
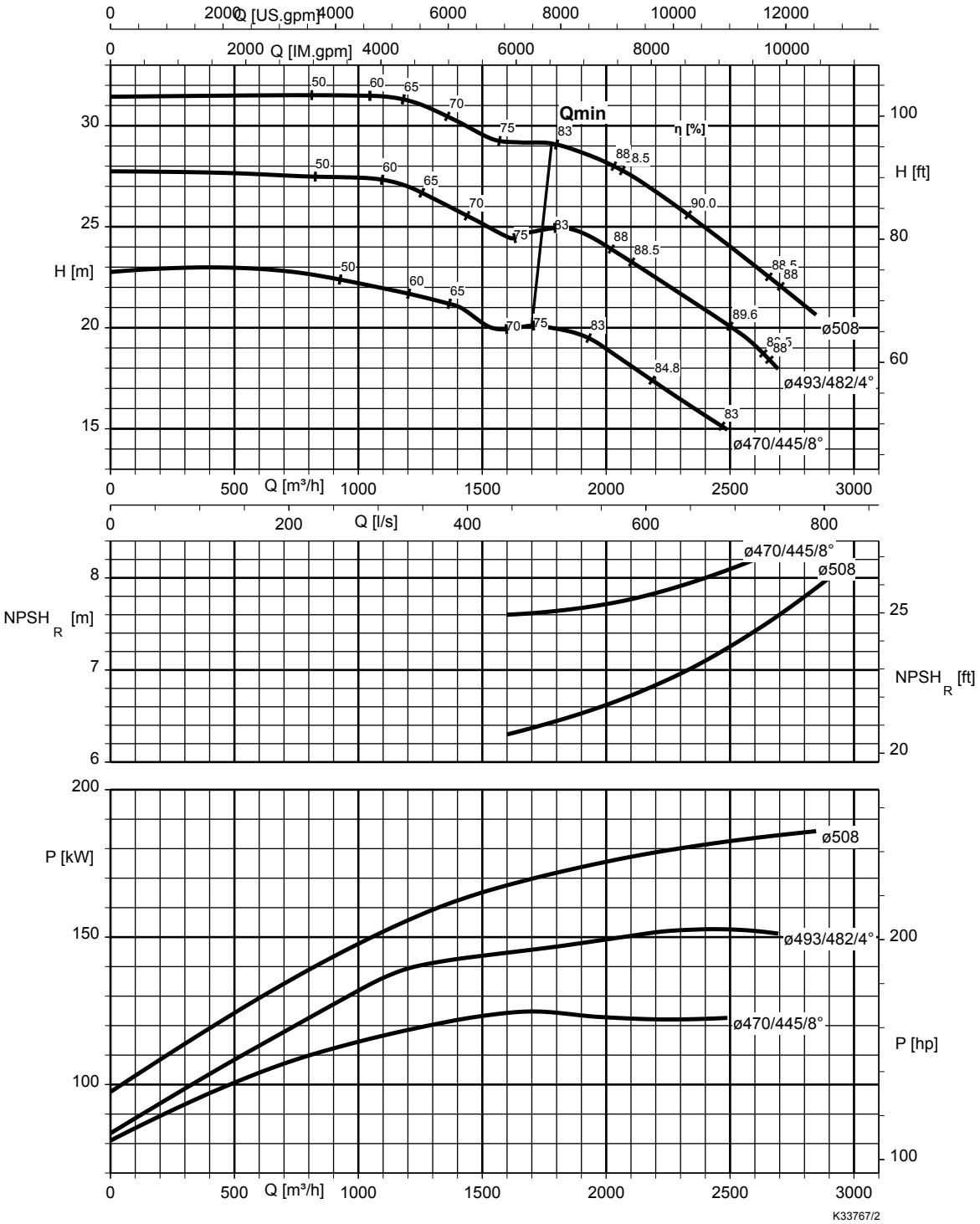


KWP K 400-400-500, n = 960 t/min



KWP K 400-400-503, n = 960 t/min



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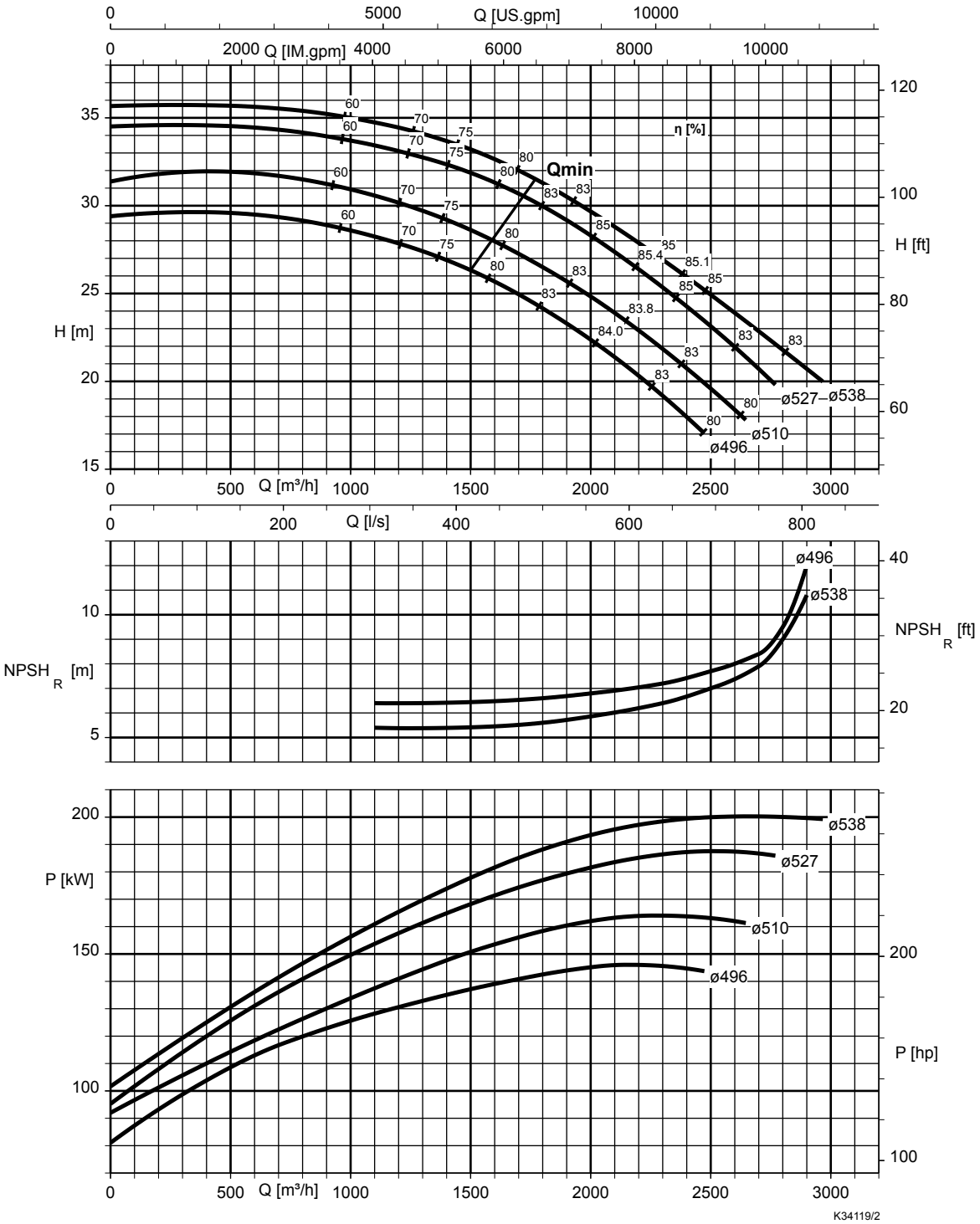
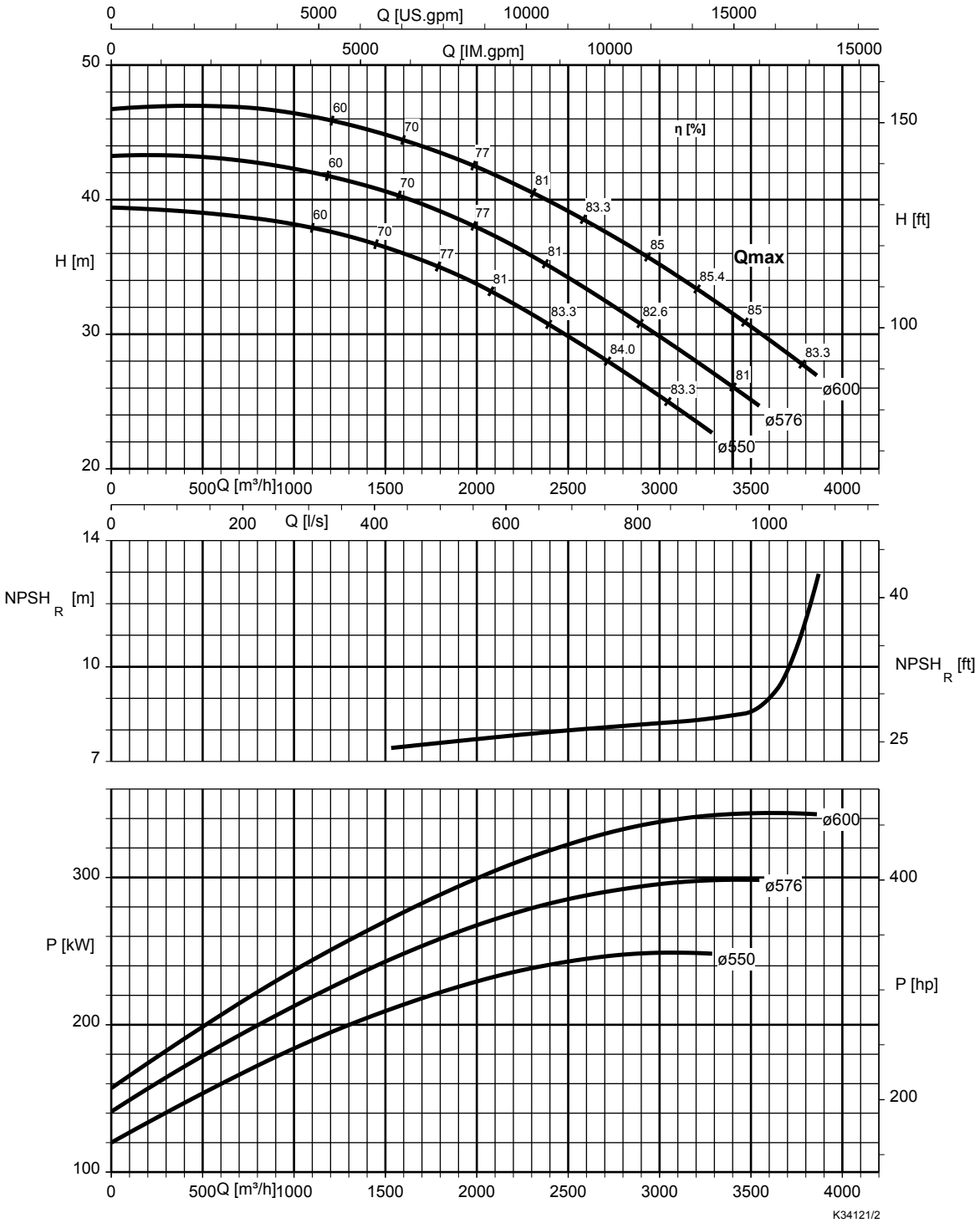
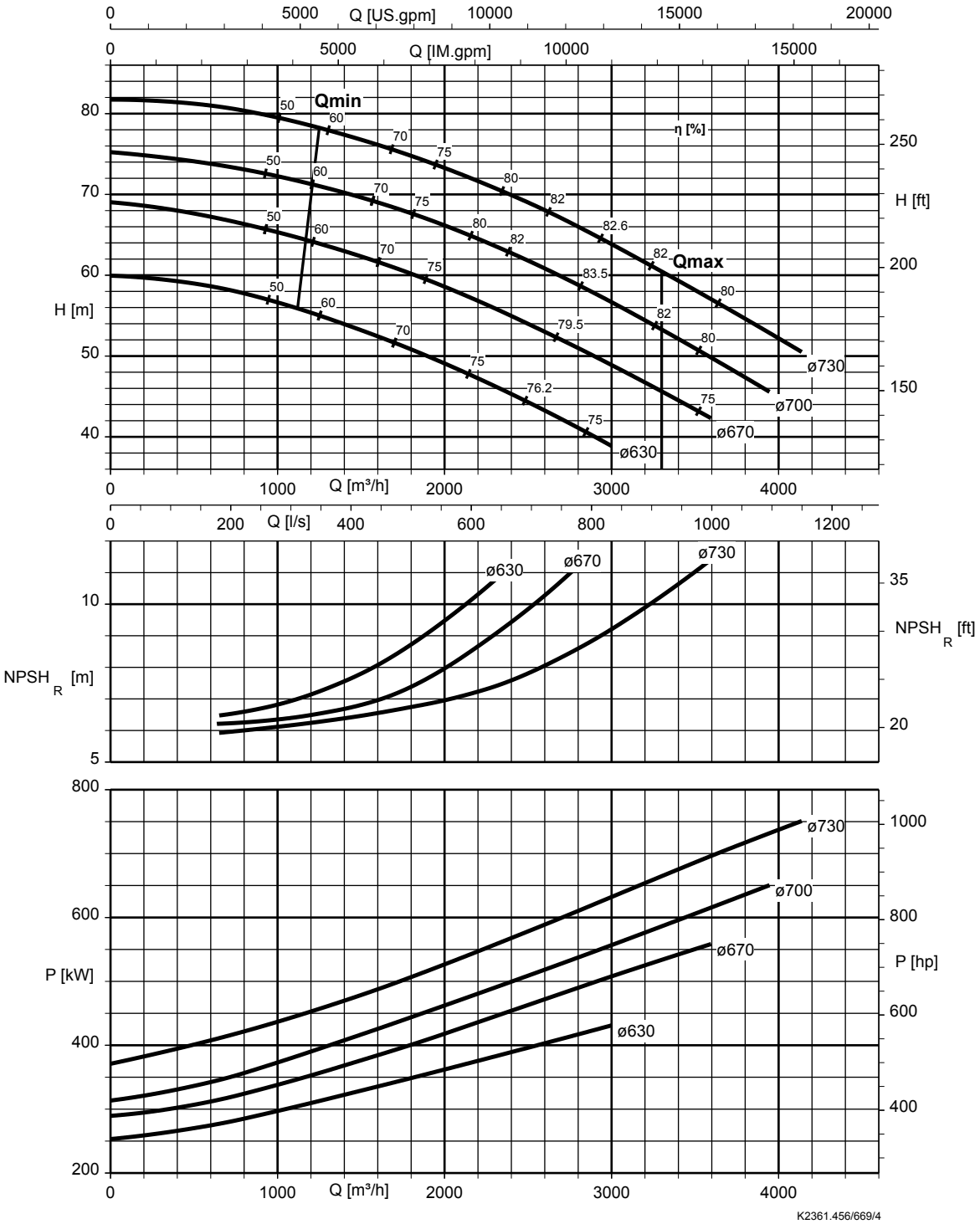


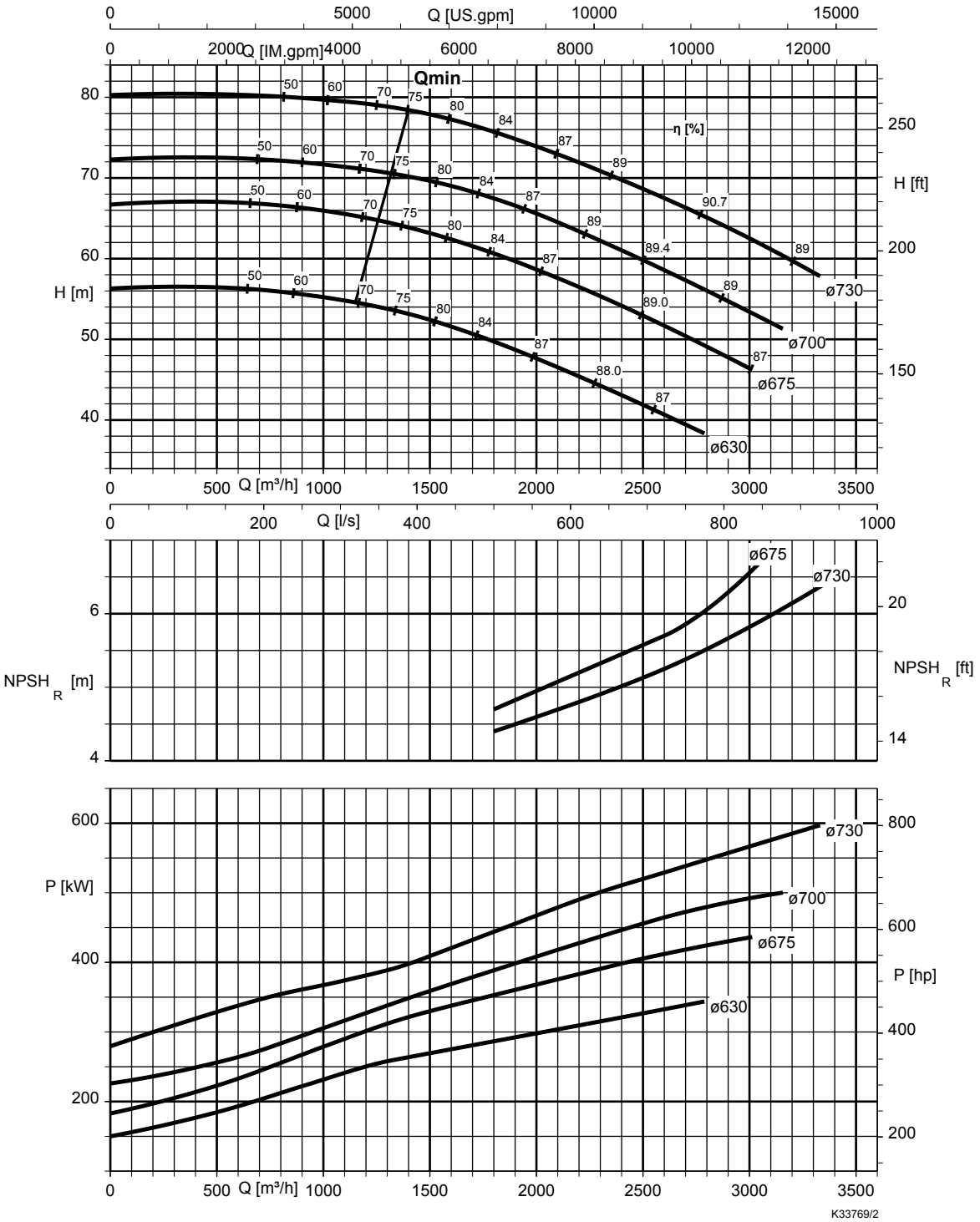
KWP K 400-400-583, n = 960 t/min



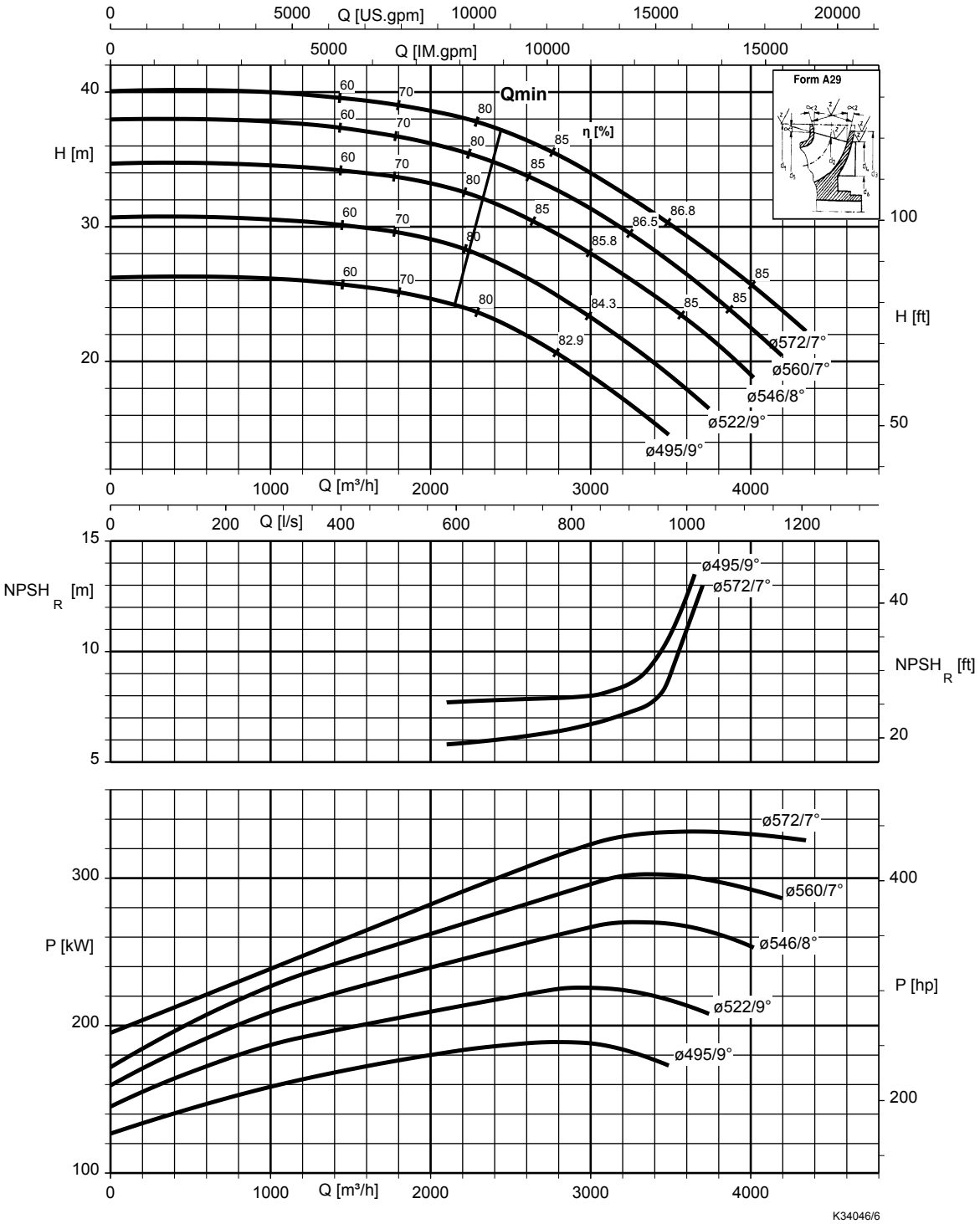
KWP K 500-400-710, n = 960 t/min



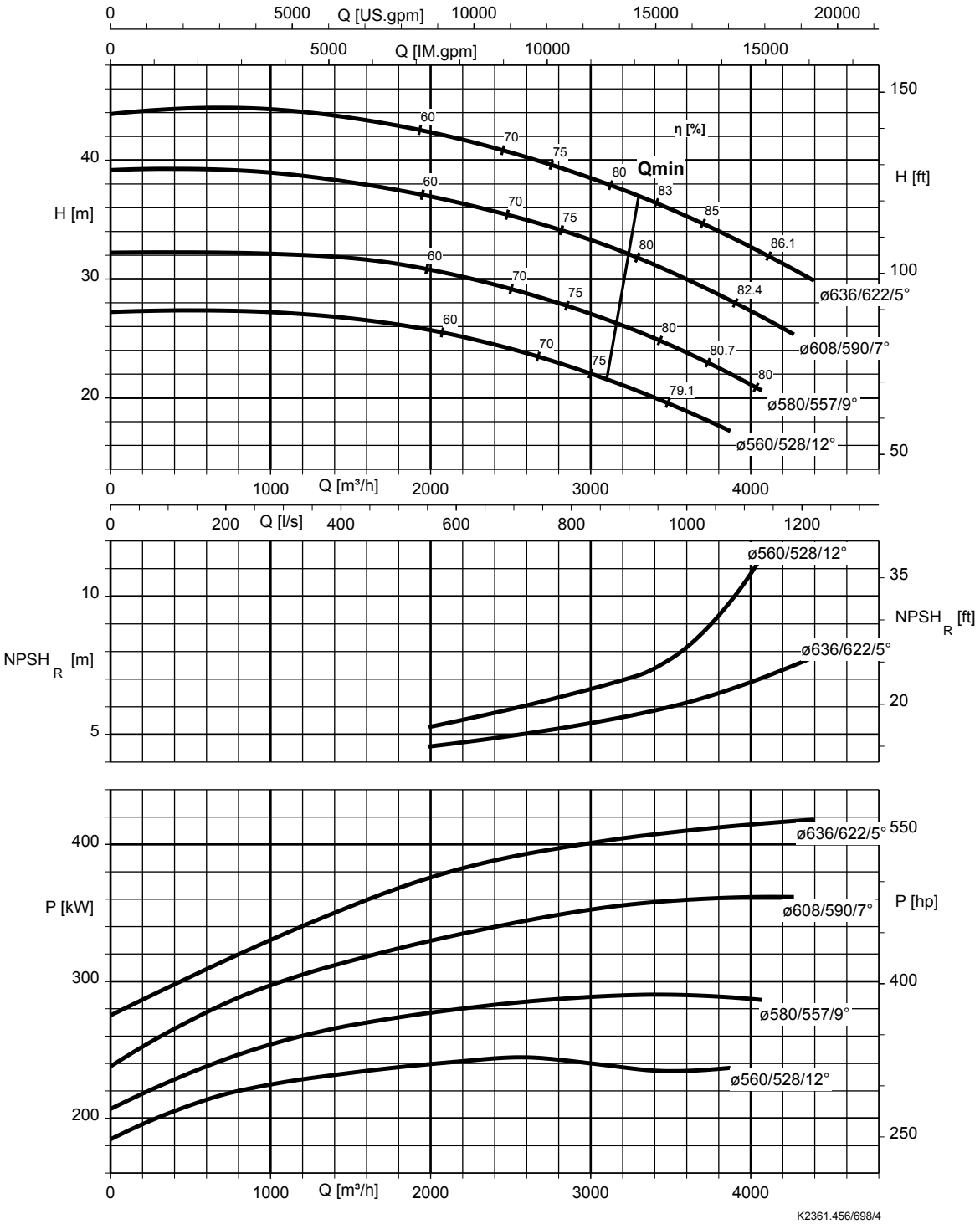
KWP K 500-400-713, n = 960 t/min



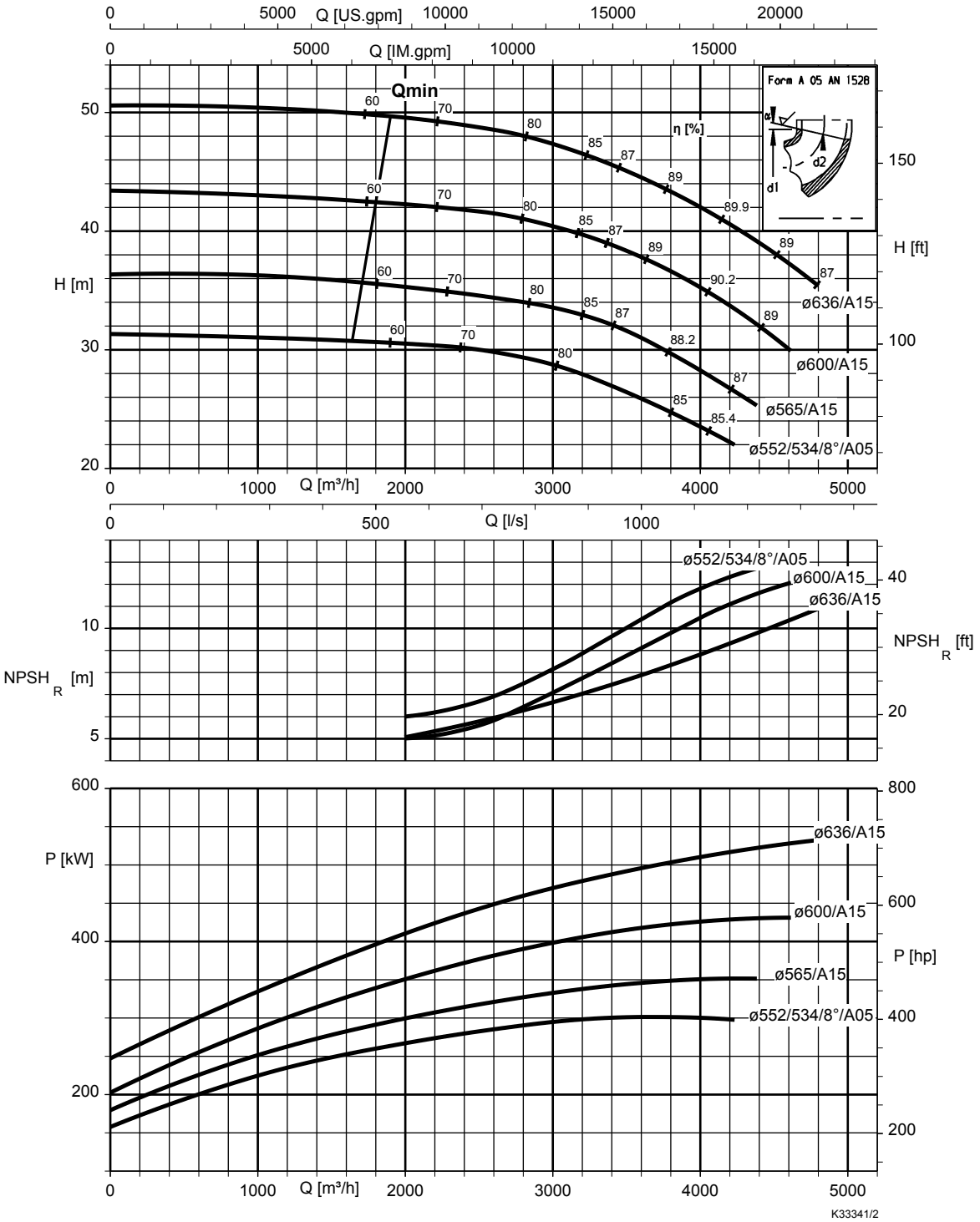
KWP K 500-500-544, n = 960 t/min



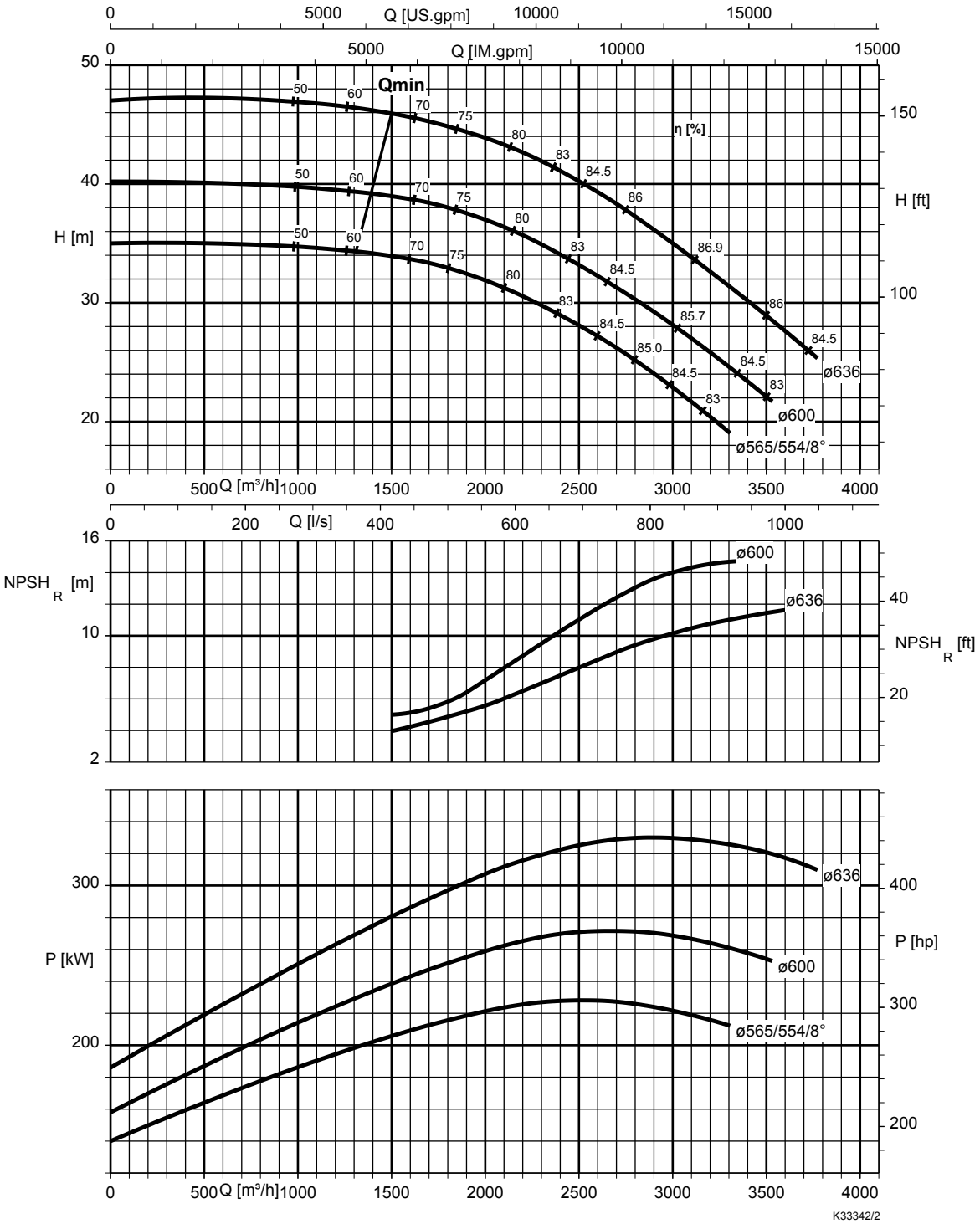
KWP K 500-500-630, n = 960 t/min



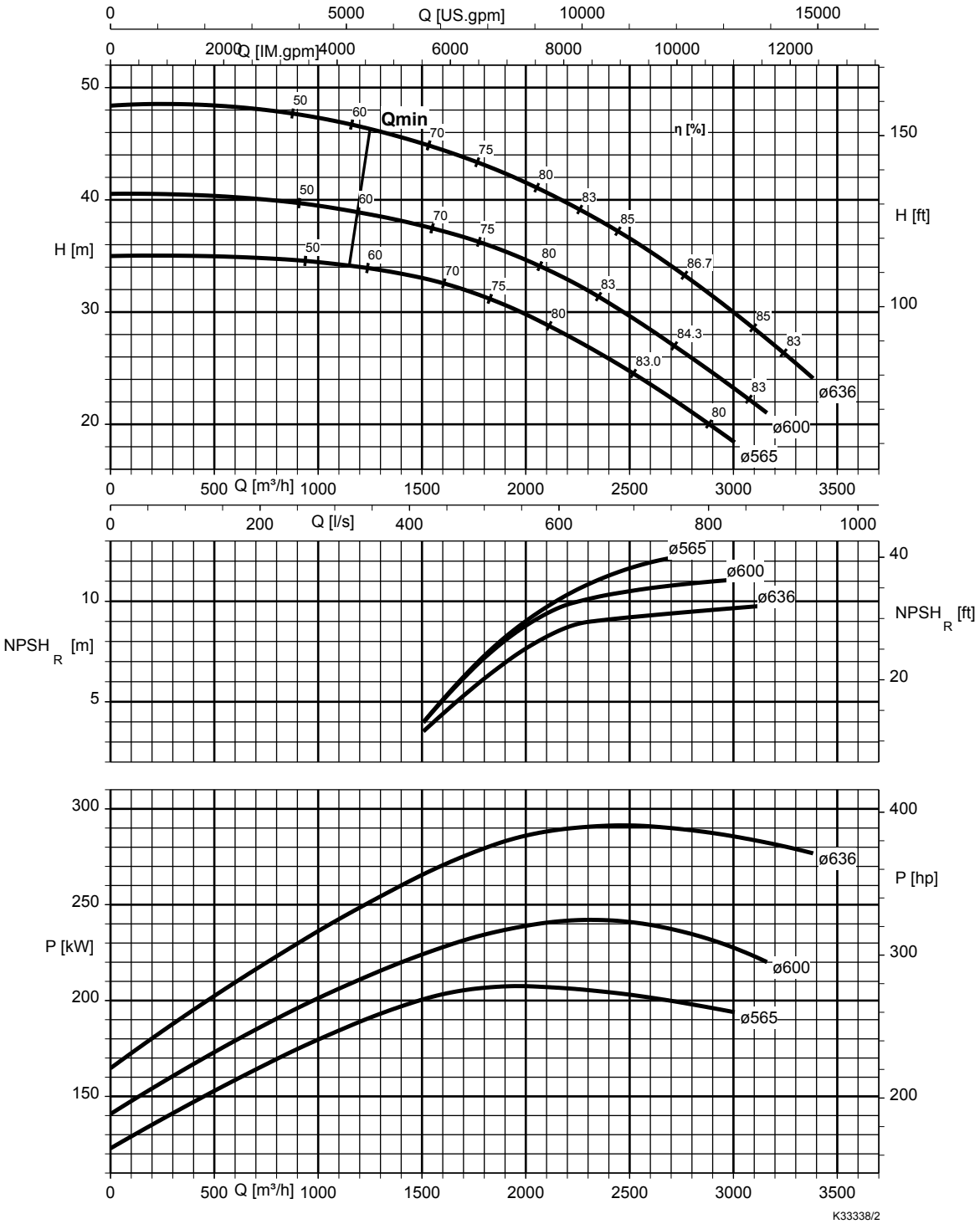
KWP K 500-500-633, n = 960 t/min



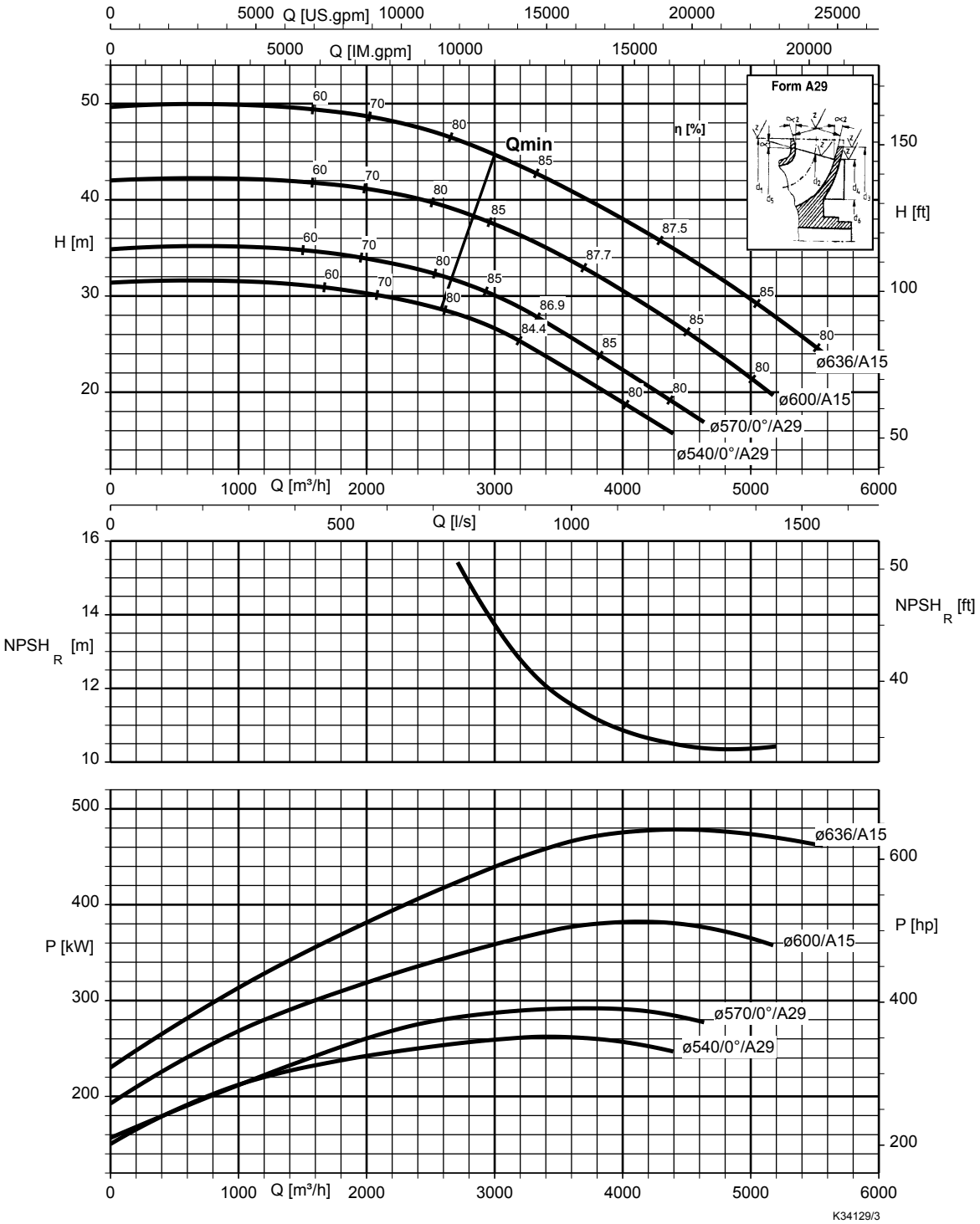
KWP K 500-500-634, n = 960 t/min



KWP K 500-500-635, n = 960 t/min

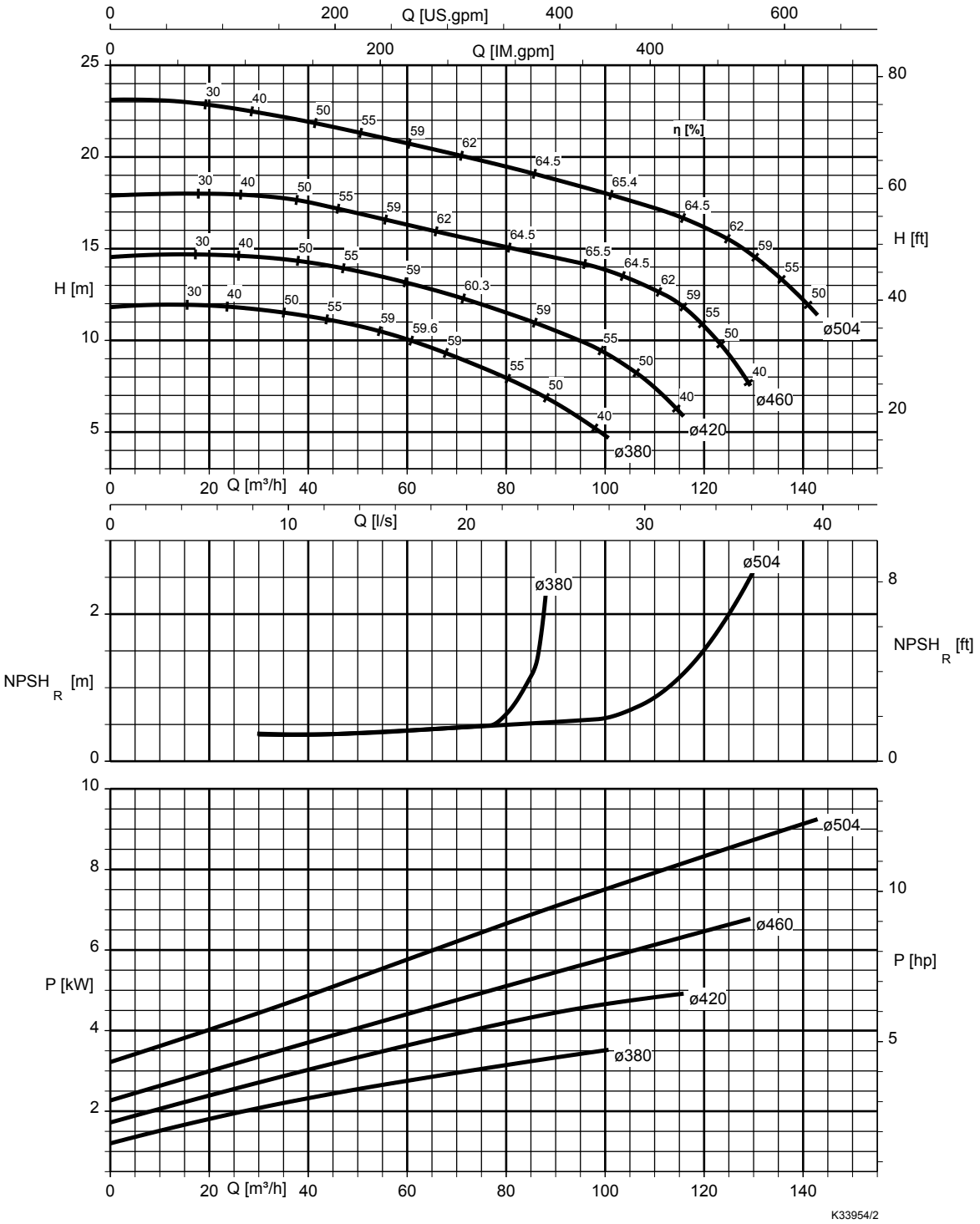


KWP K 500-500-637, n = 960 t/min

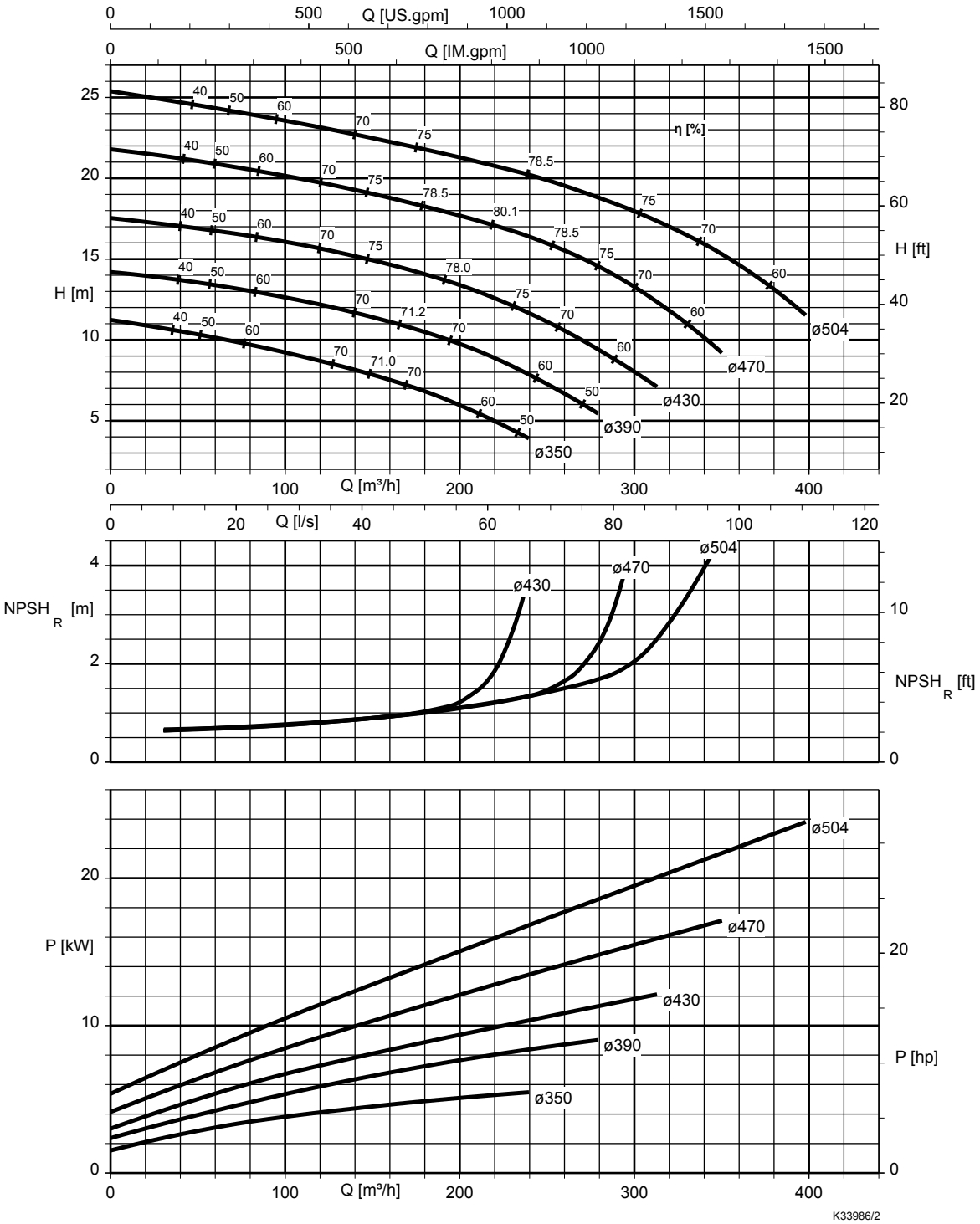


n = 725 t/min

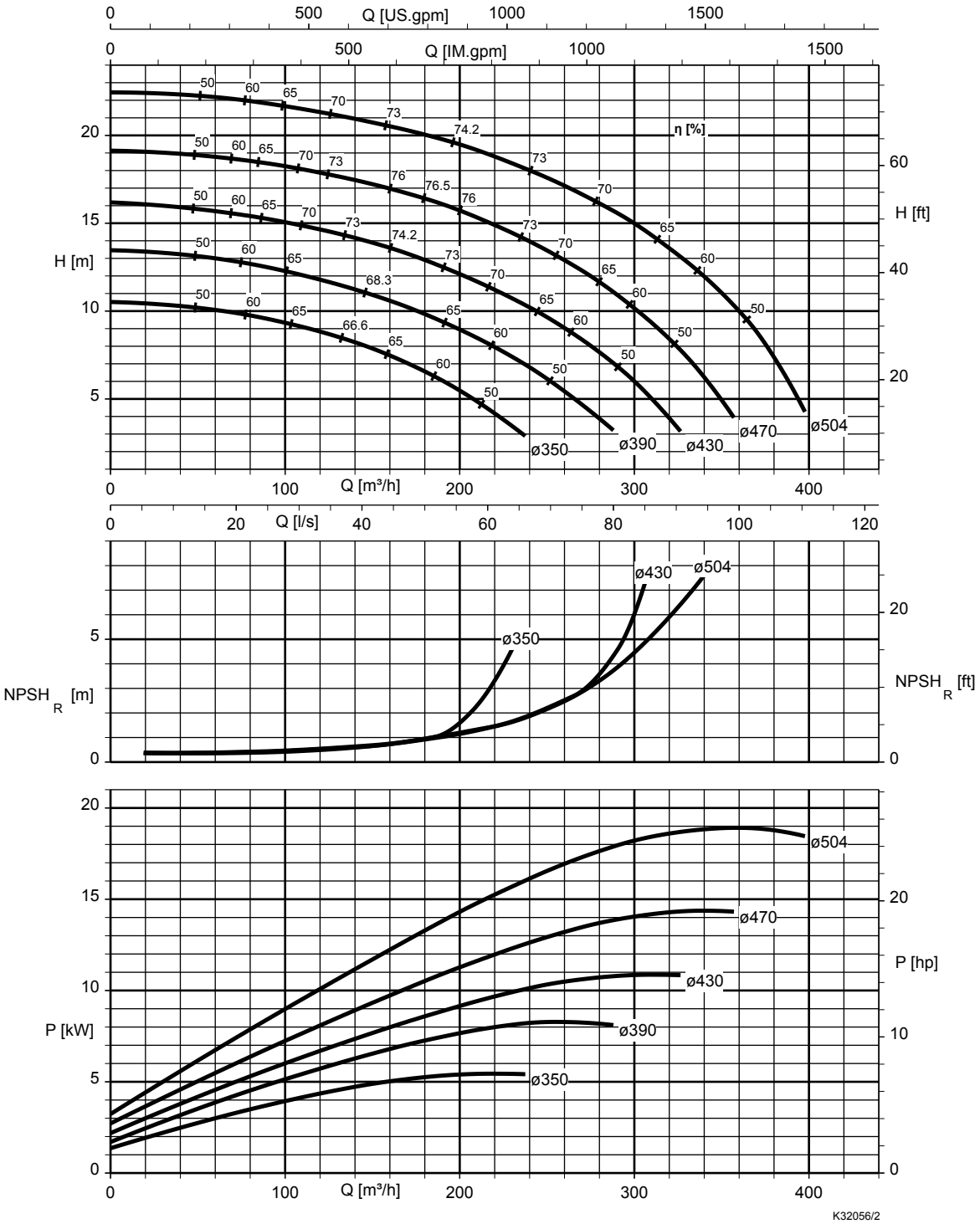
KWP K 125-080-500, n = 725 t/min



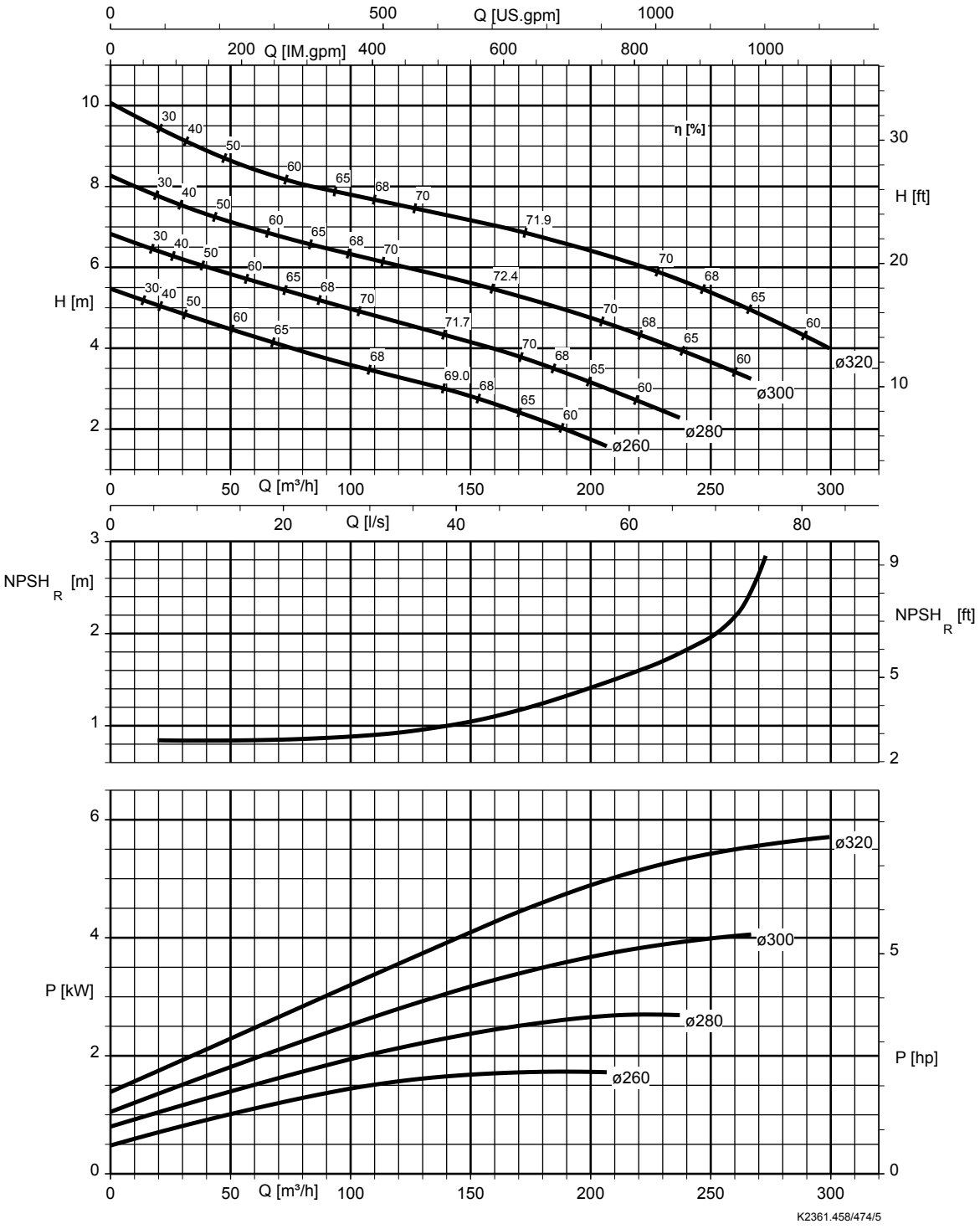
KWP K 150-125-500, n = 725 t/min



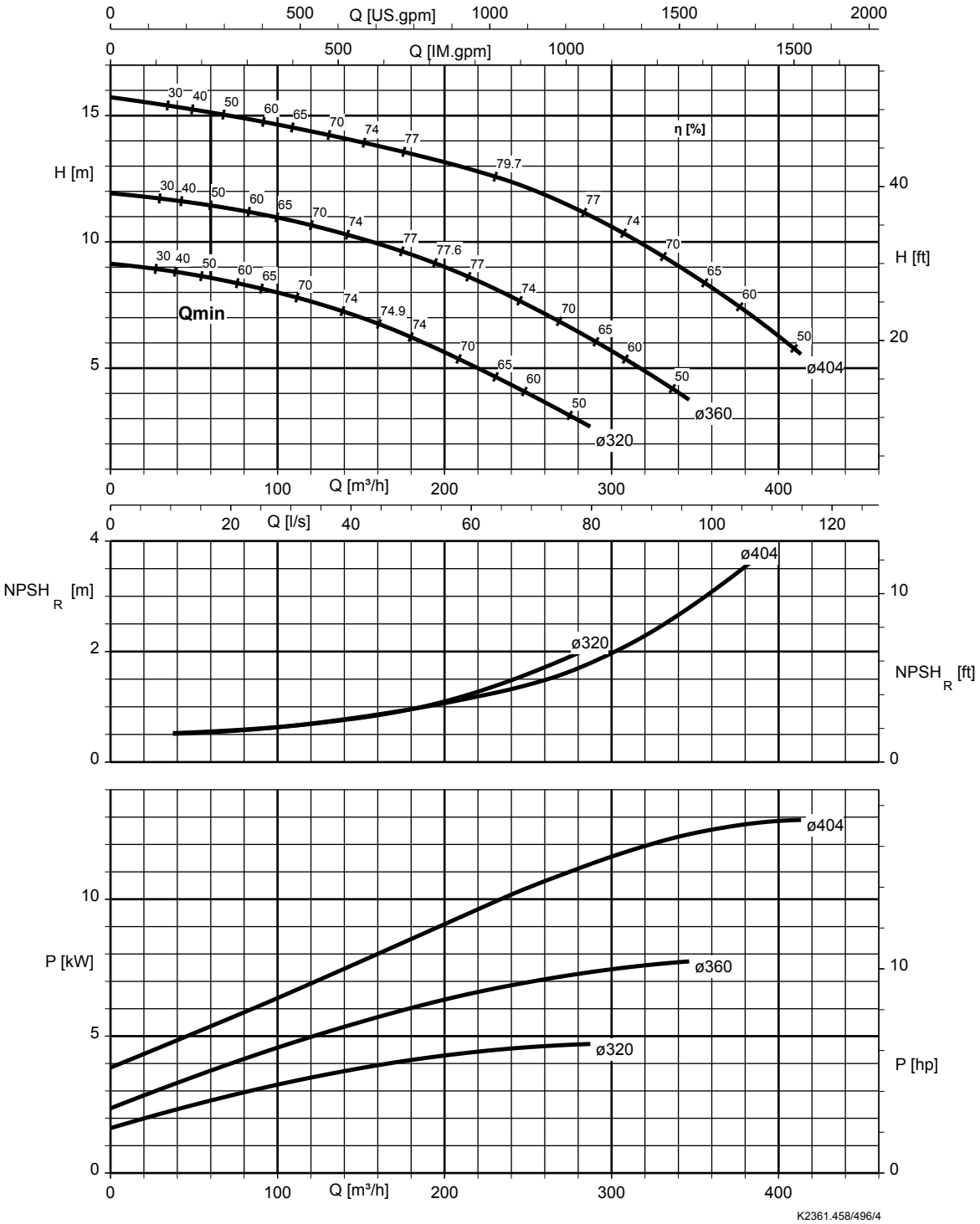
KWP K 150-125-503, n = 725 t/min



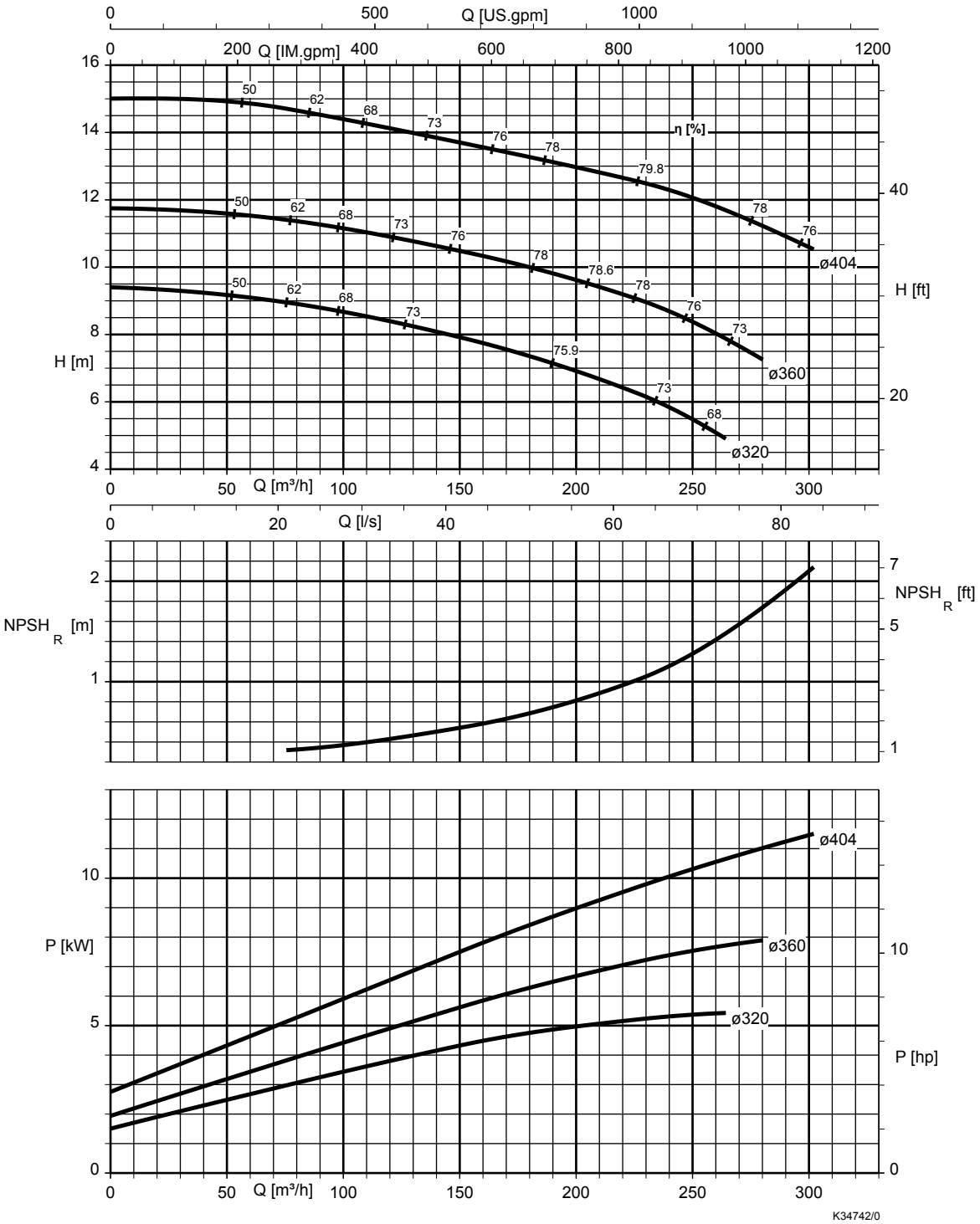
KWP K 150-150-315, n = 725 t/min



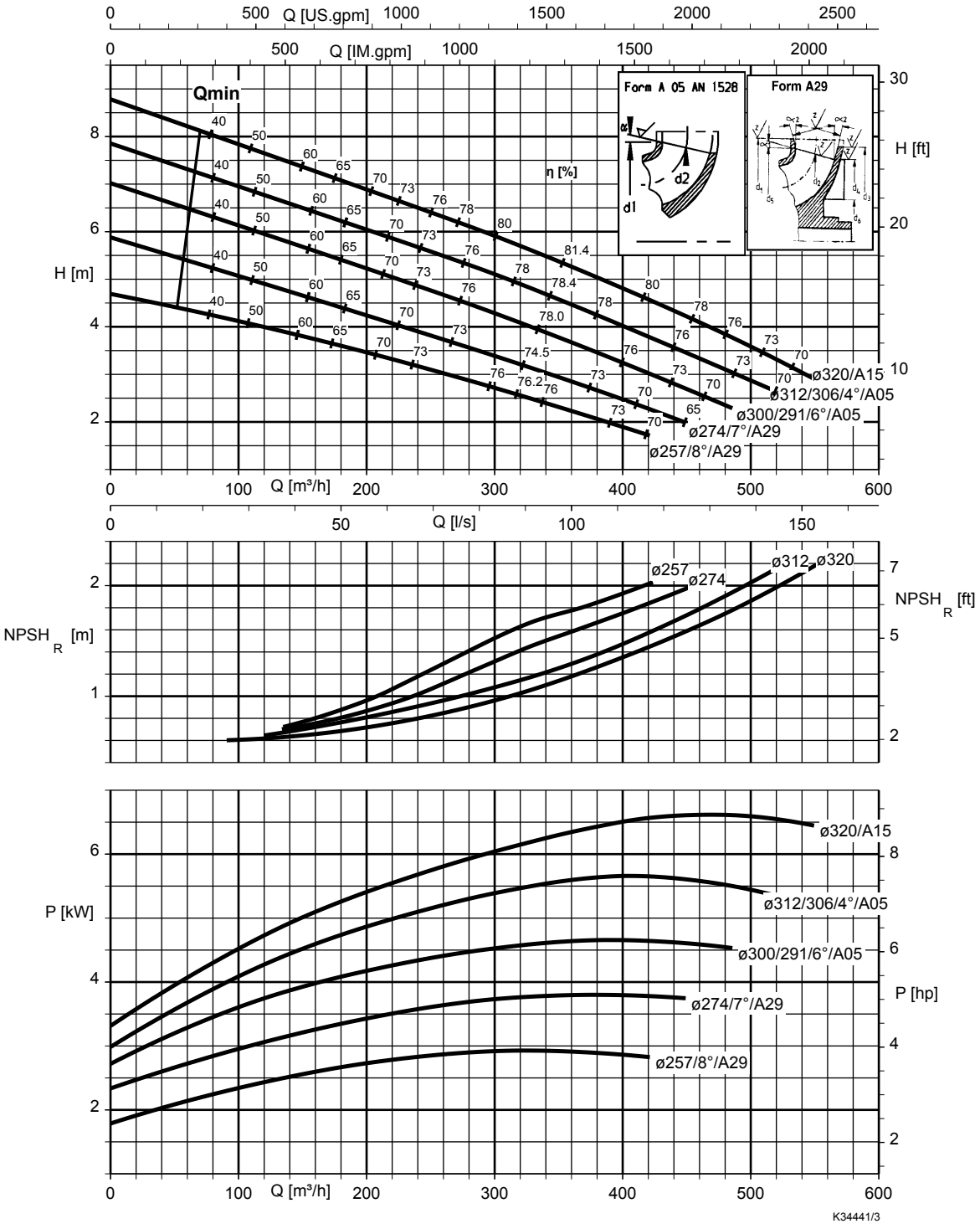
KWP K 150-150-400, n = 725 t/min



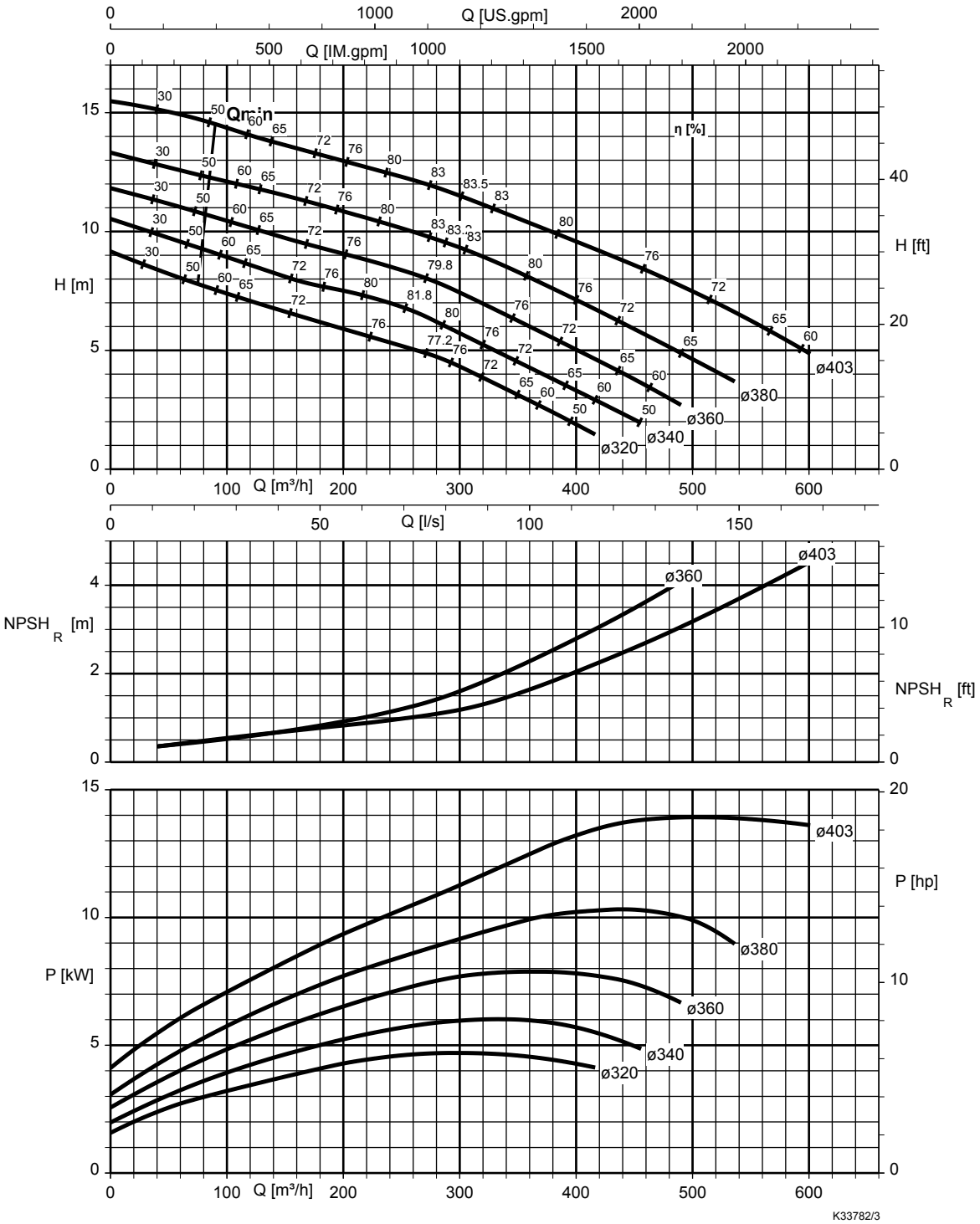
KWP K 150-150-403, n = 725 t/min



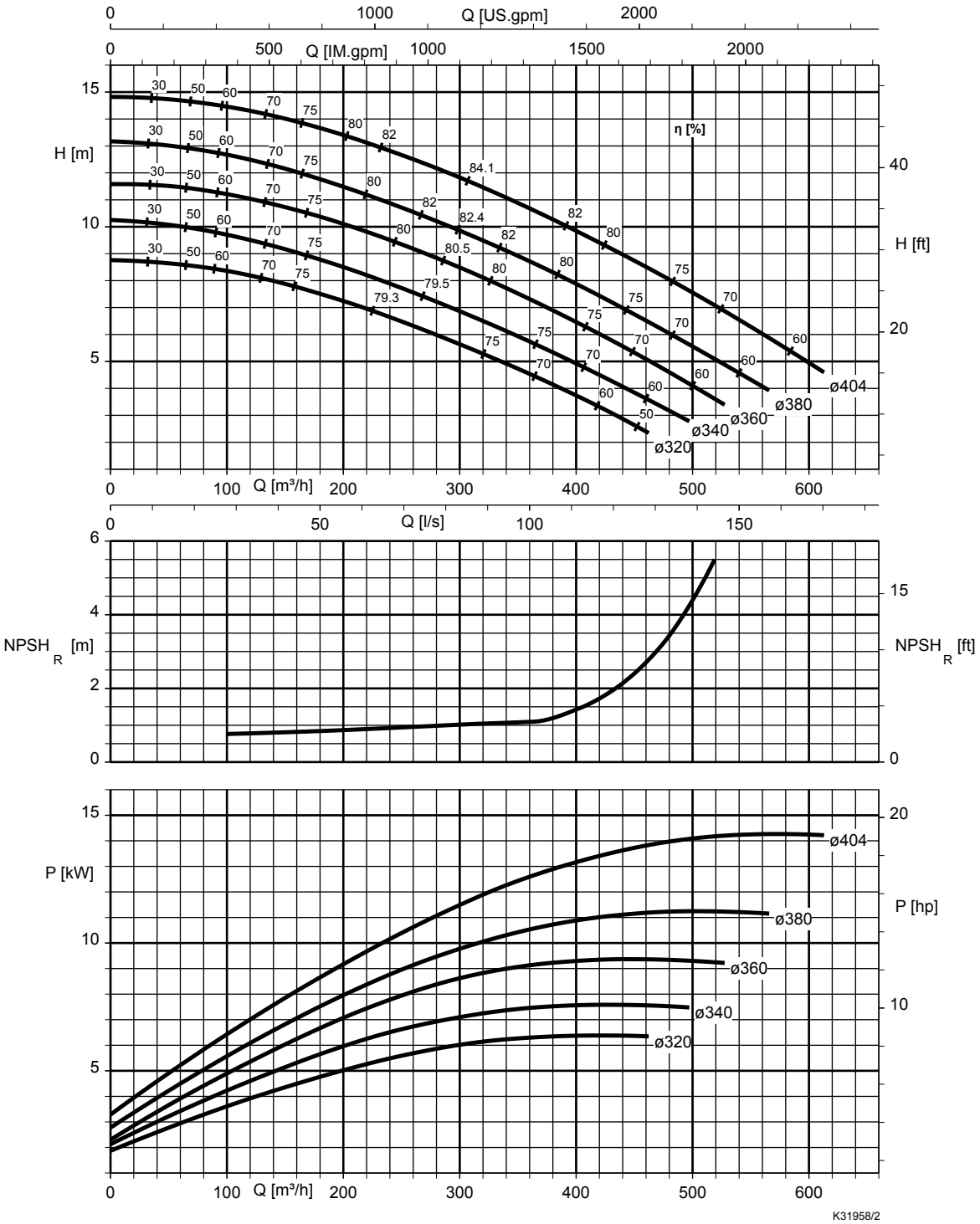
KWP K 200-200-320, n = 725 t/min



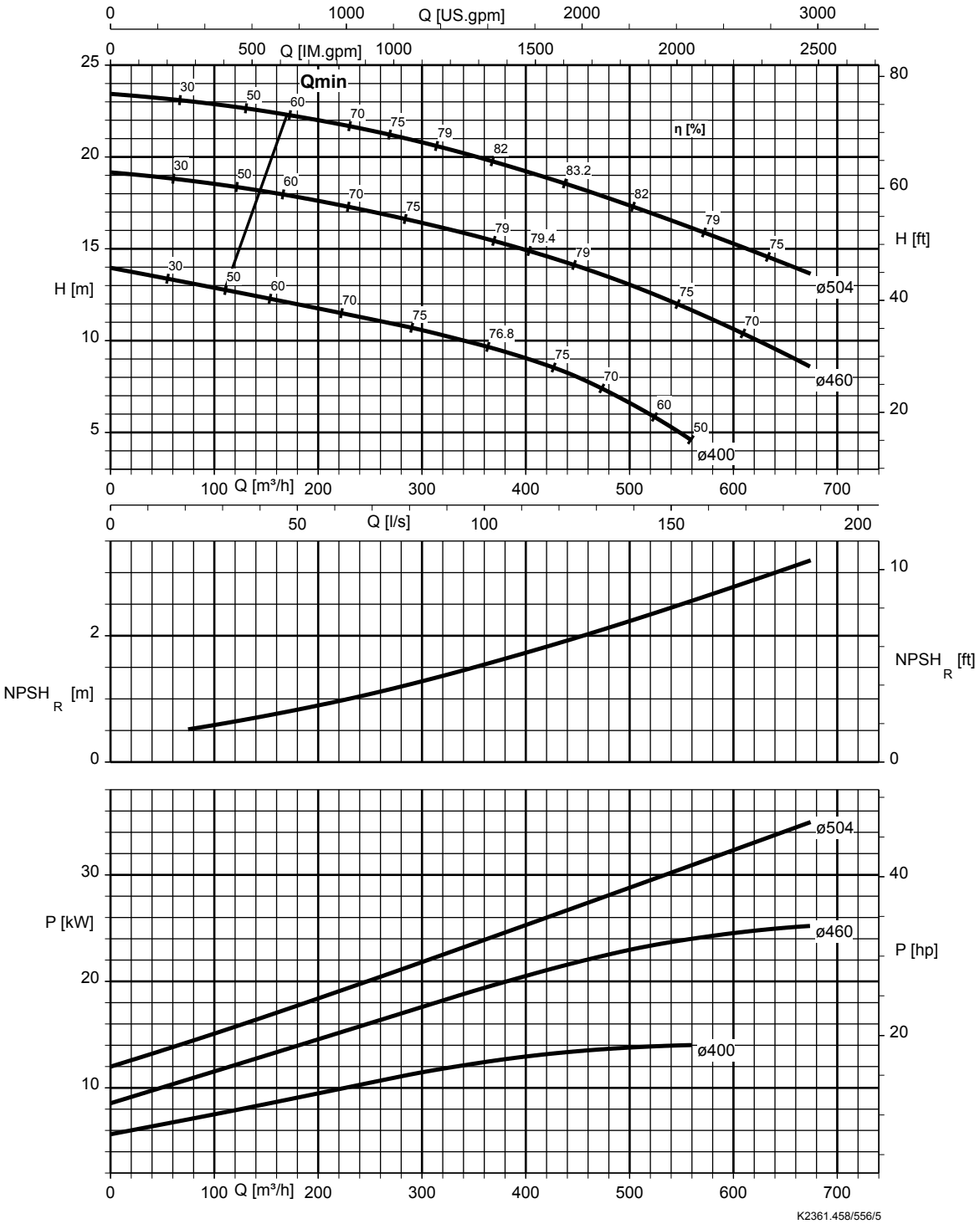
KWP K 200-200-400, n = 725 t/min



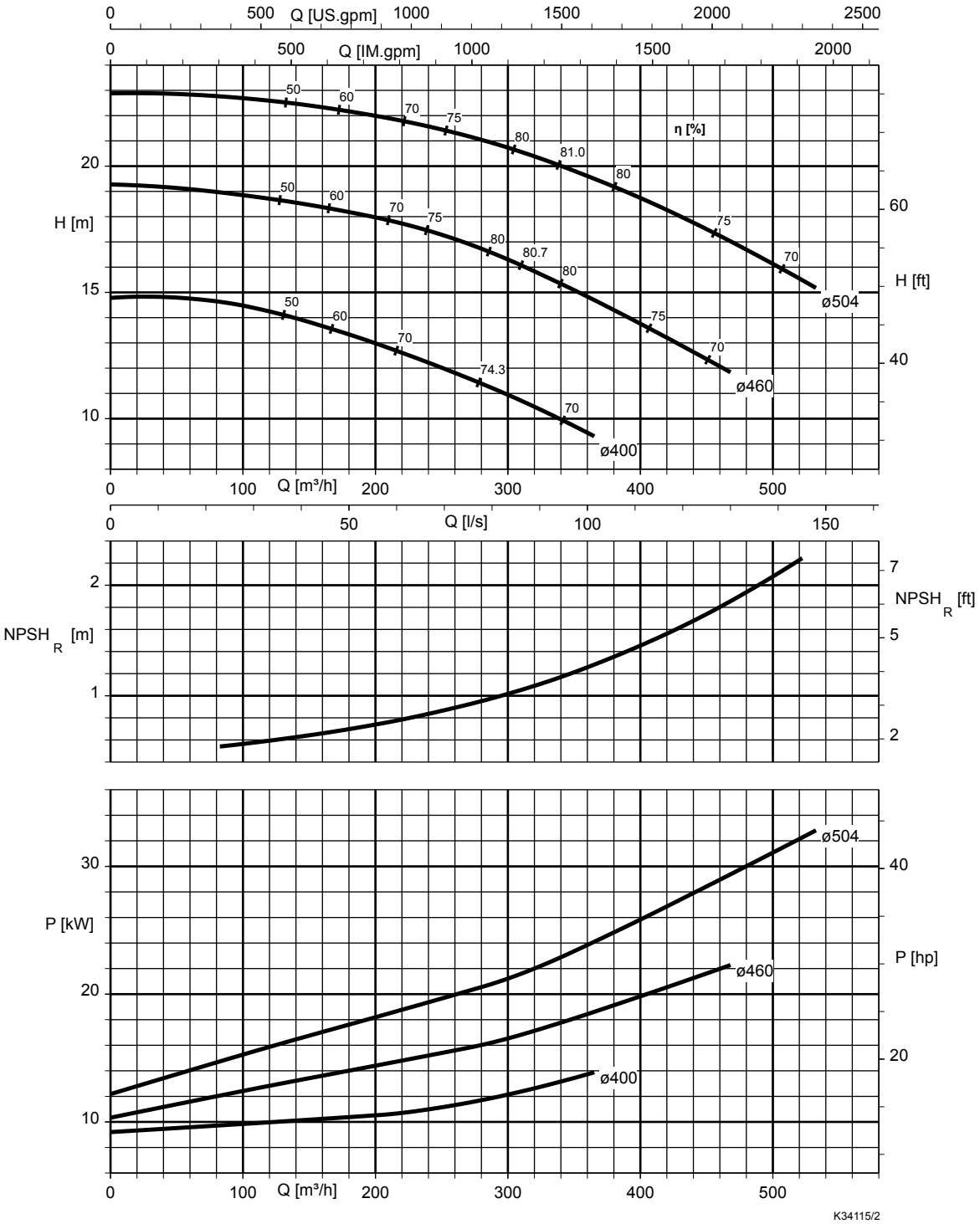
KWP K 200-200-403, n = 725 t/min



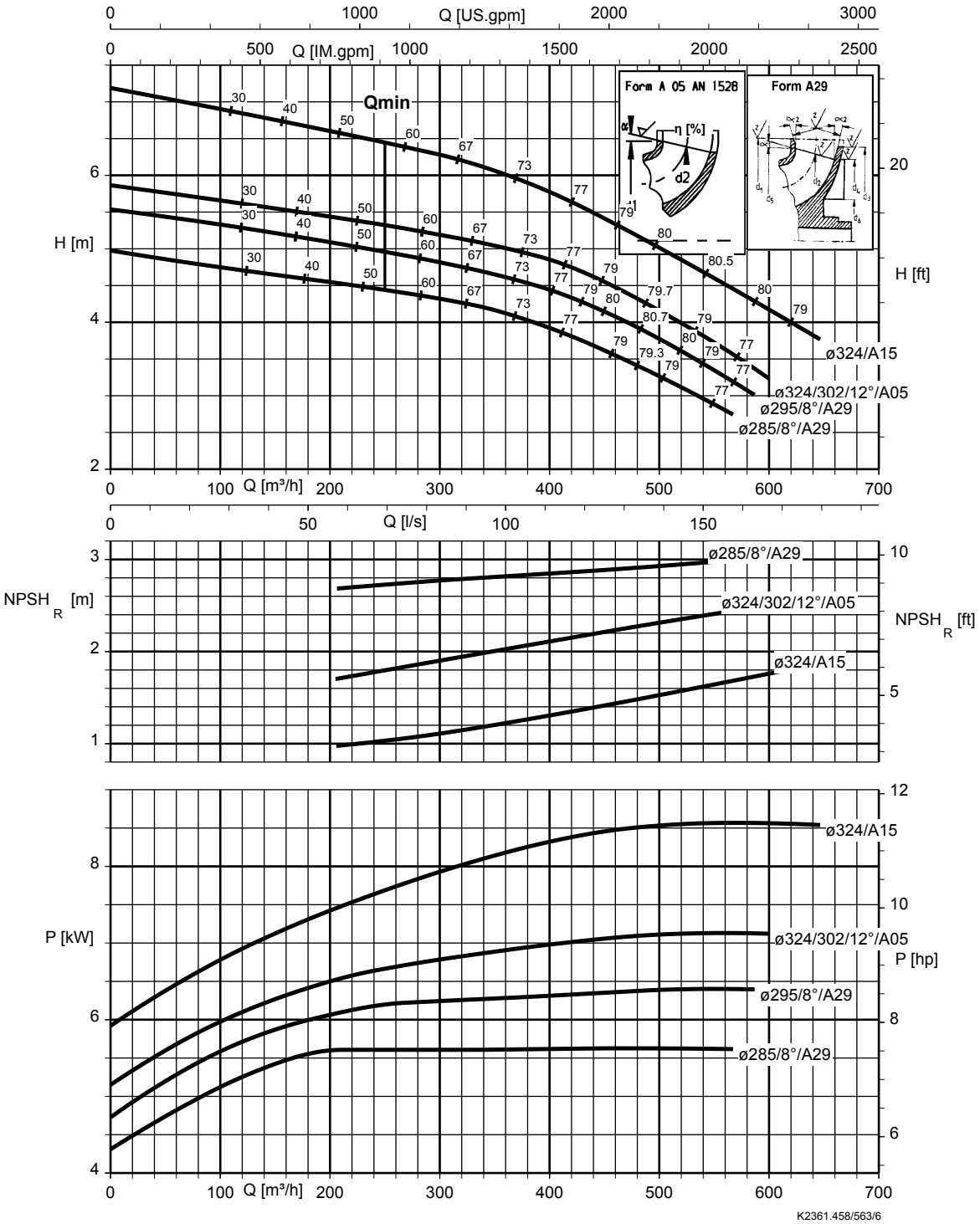
KWP K 200-200-501, n = 725 t/min



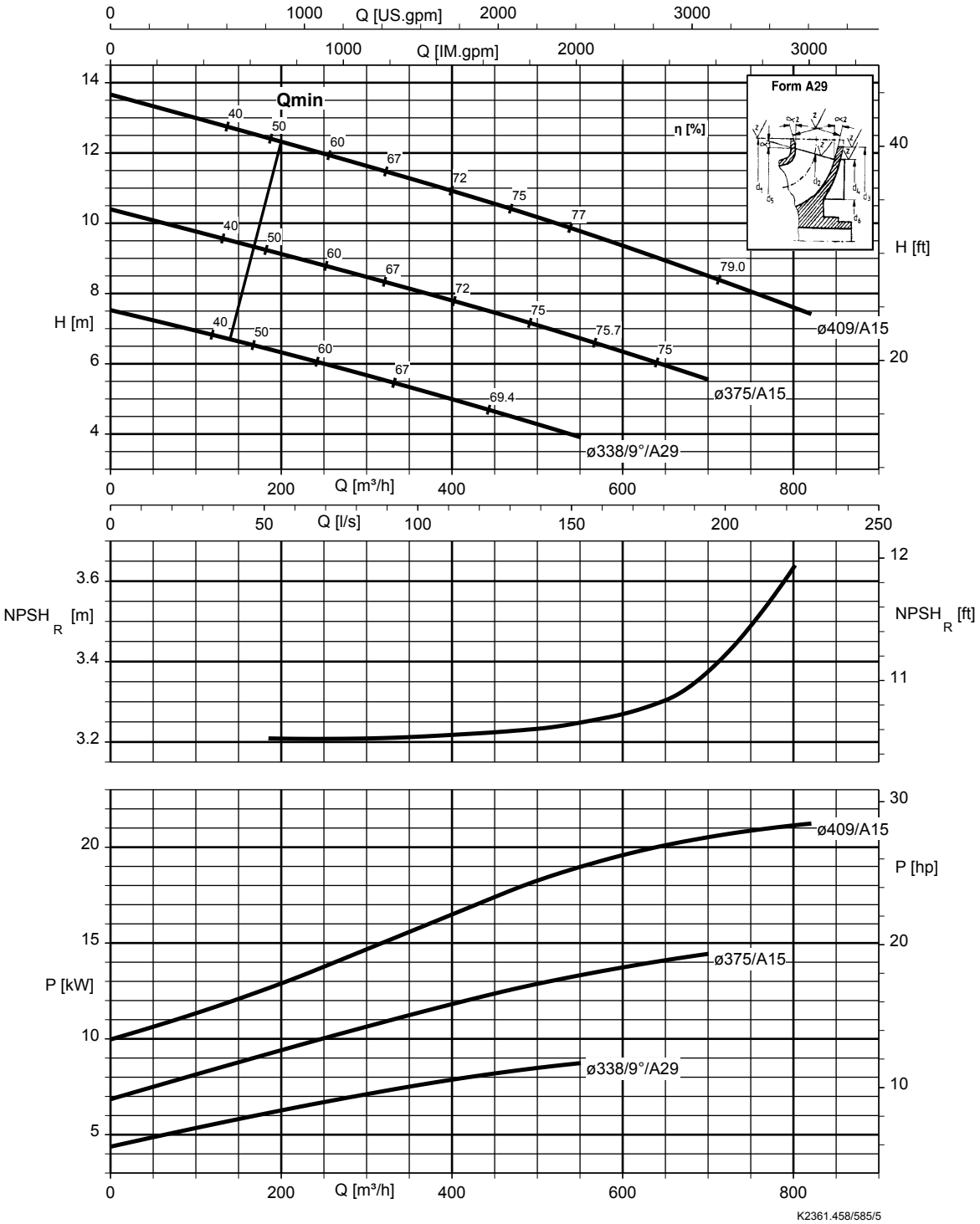
KWP K 200-200-503, n = 725 t/min



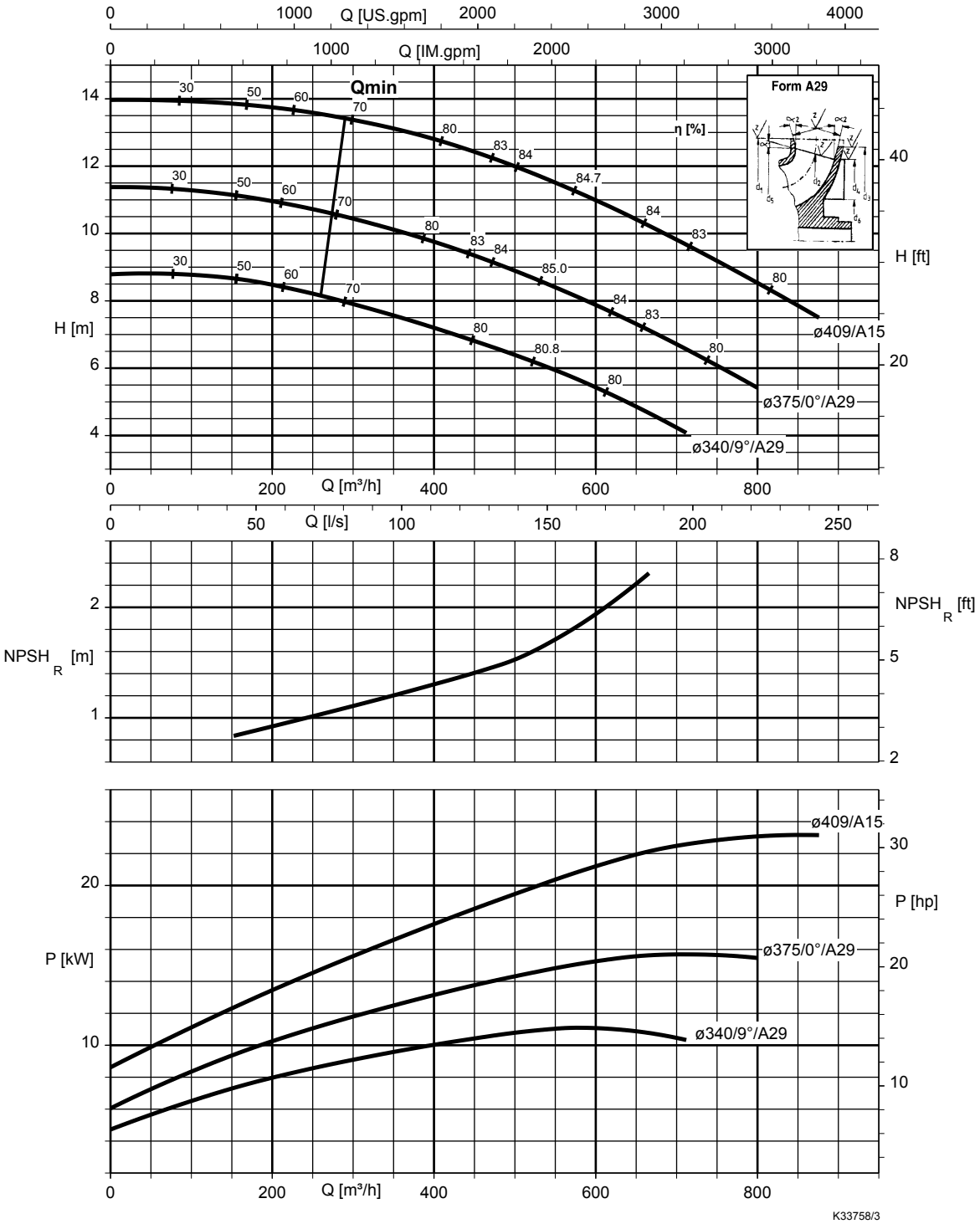
KWP K 250-250-315, n = 725 t/min



KWP K 250-250-400, n = 725 t/min



KWP K 250-250-403, n = 725 t/min



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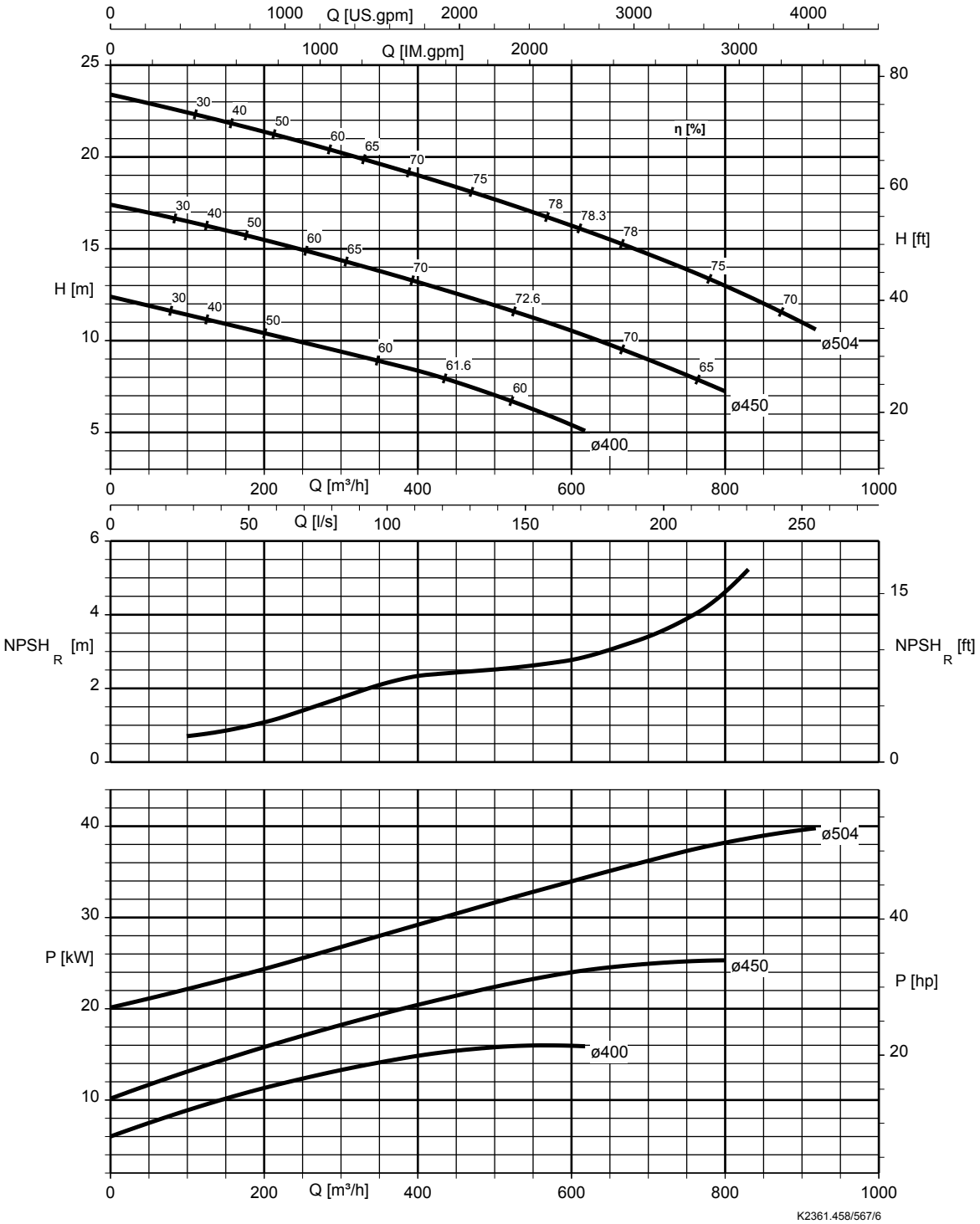
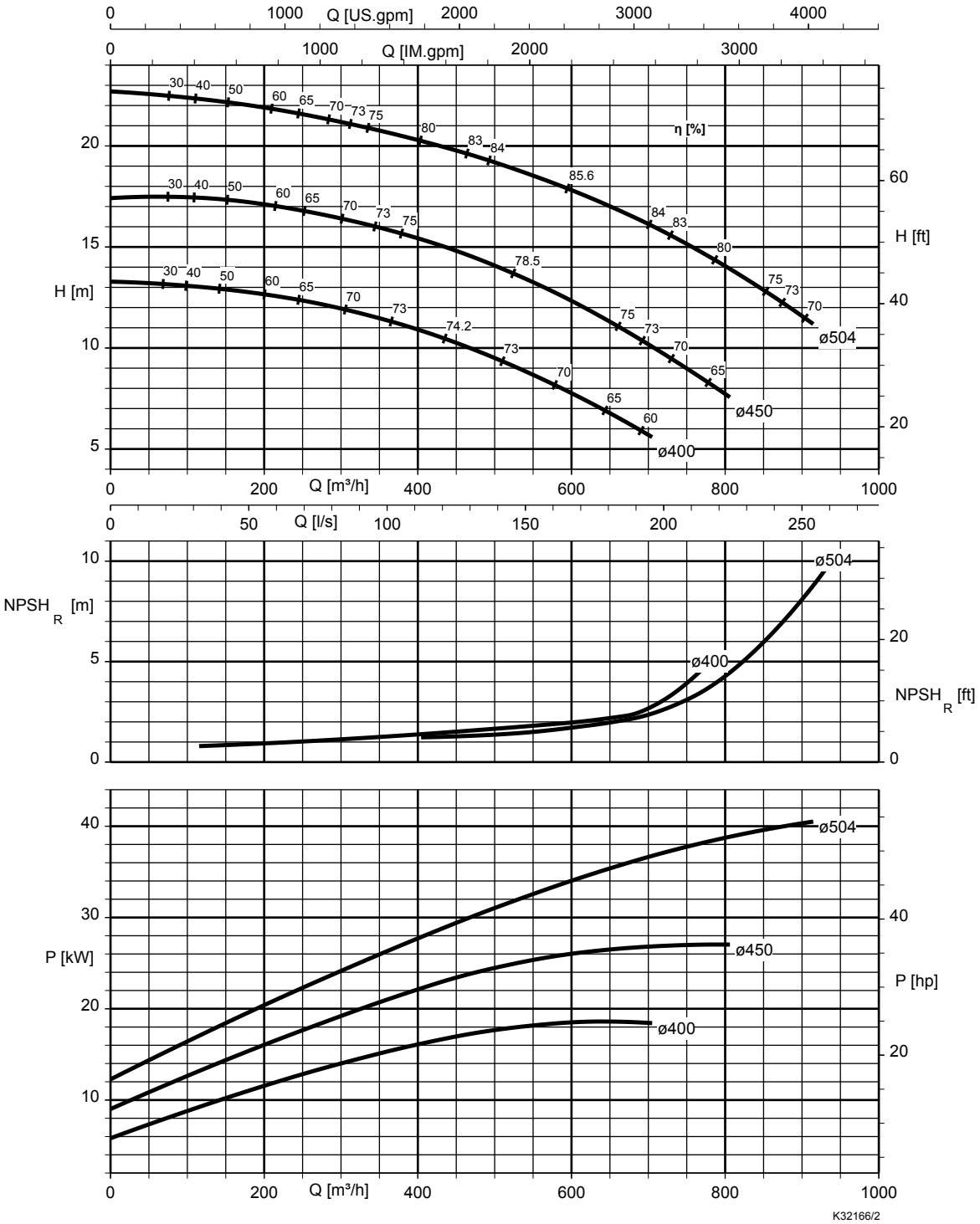
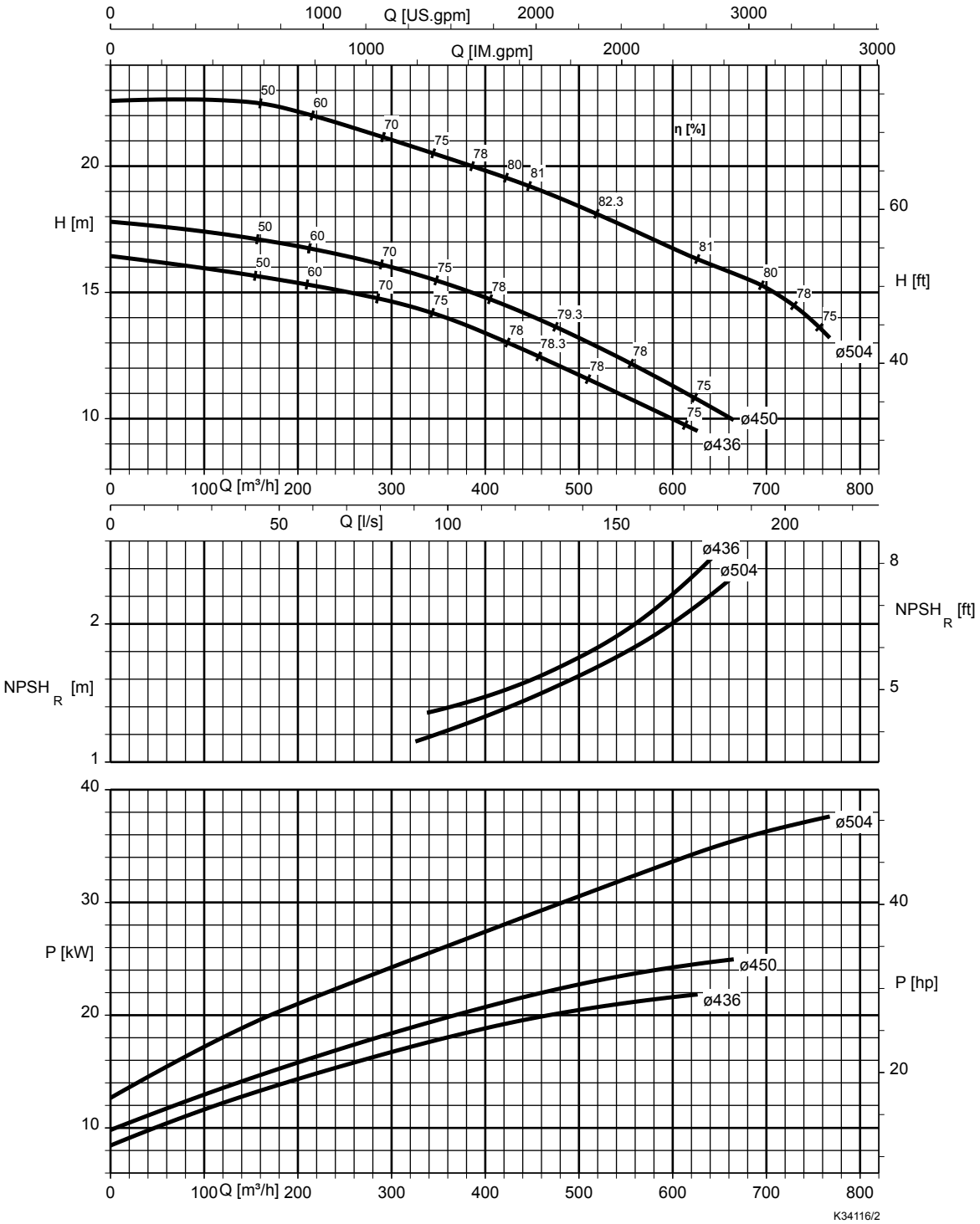


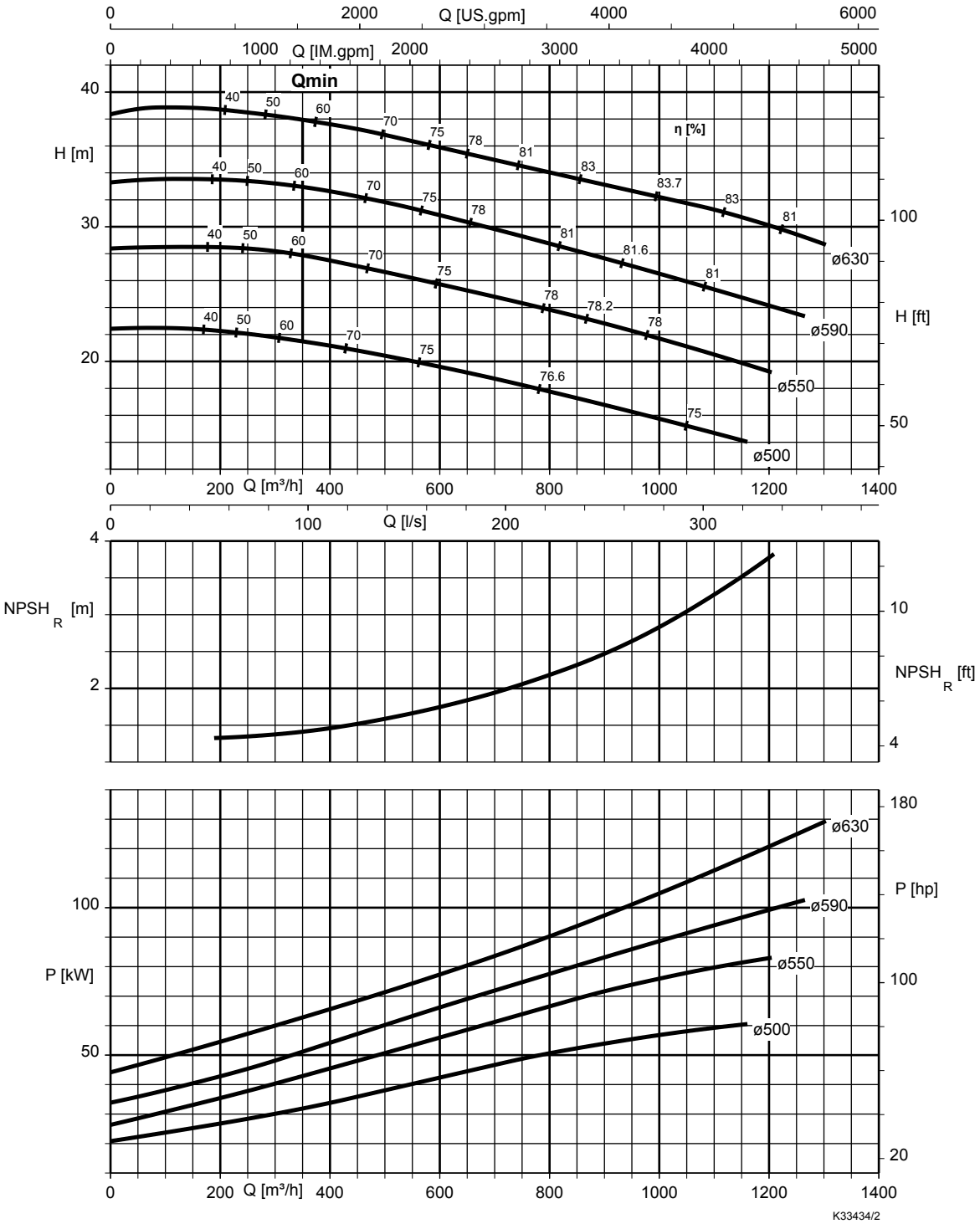
KWP K 250-250-503, n = 725 t/min



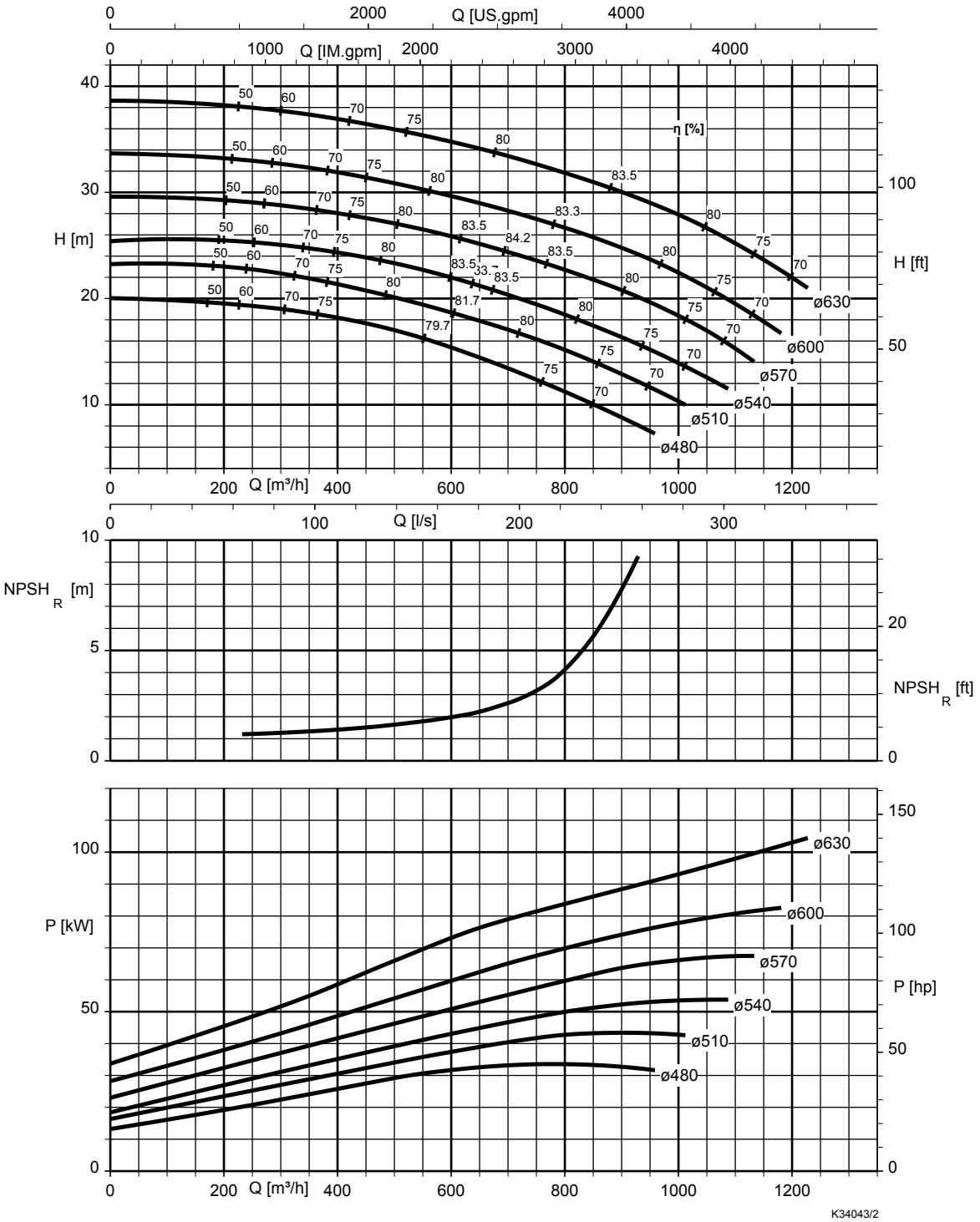
KWP K 250-250-505, n = 725 t/min



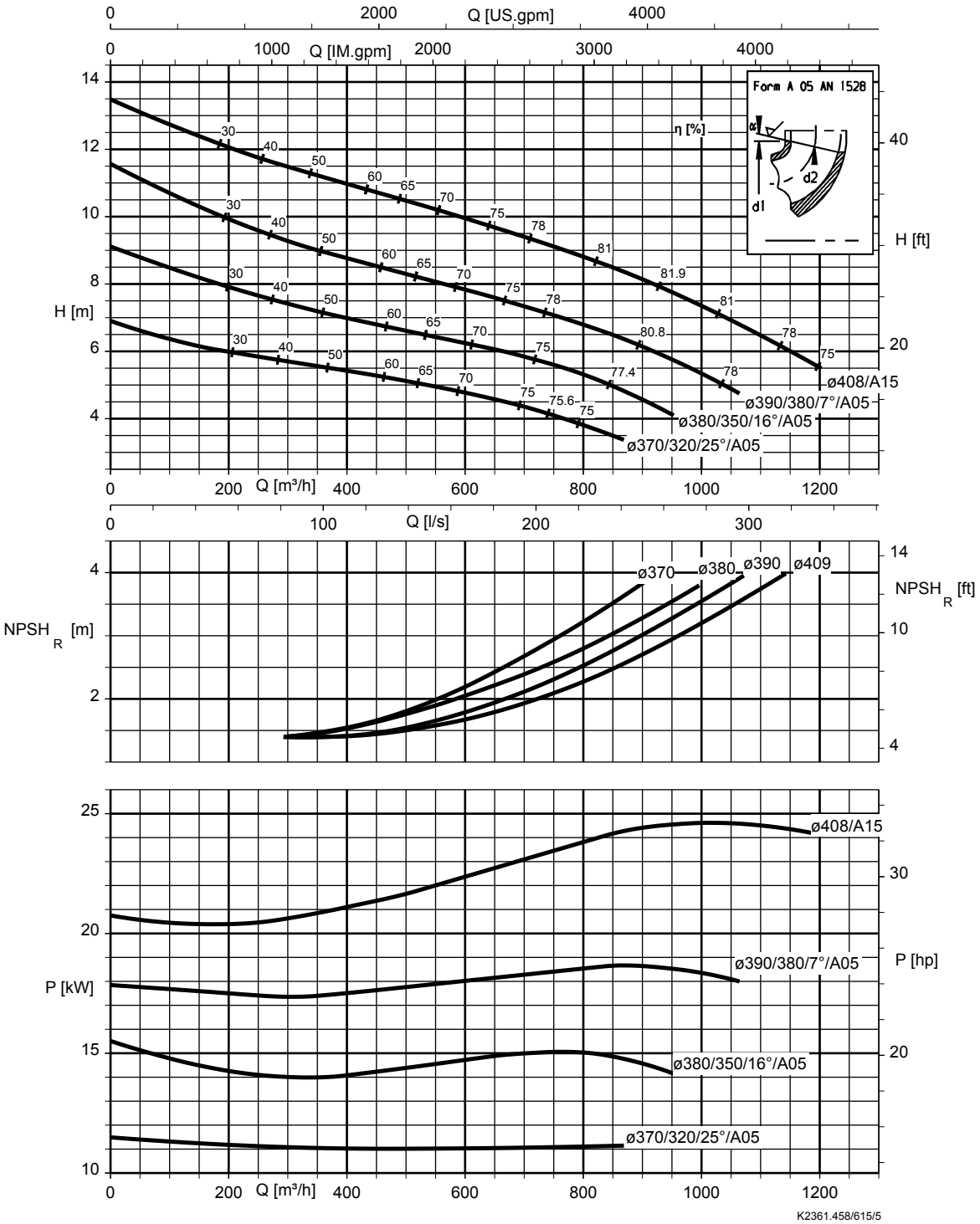
KWP K 250-250-630, n = 725 t/min



KWP K 250-250-634, n = 725 t/min



KWP K 300-300-400, n = 725 t/min



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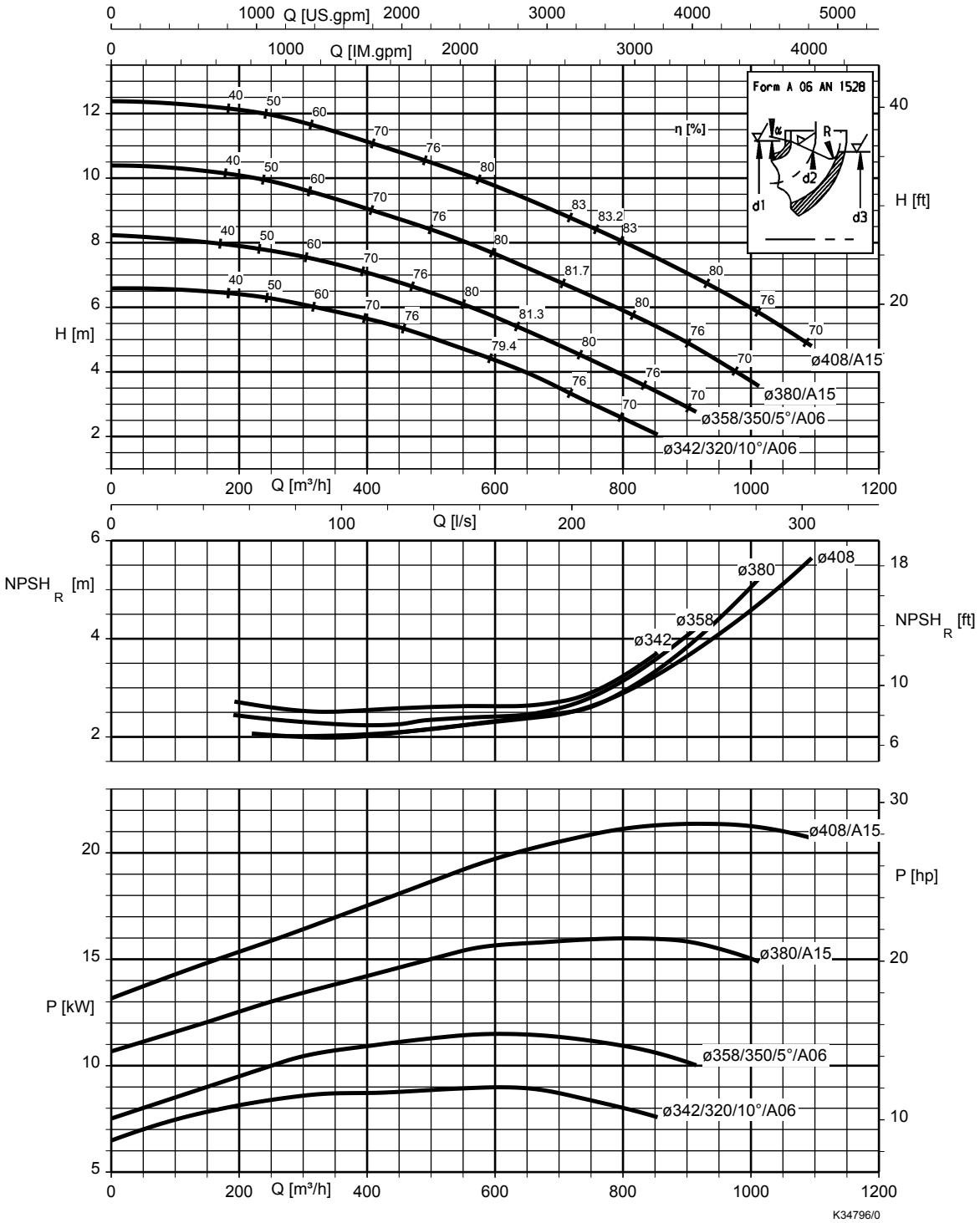
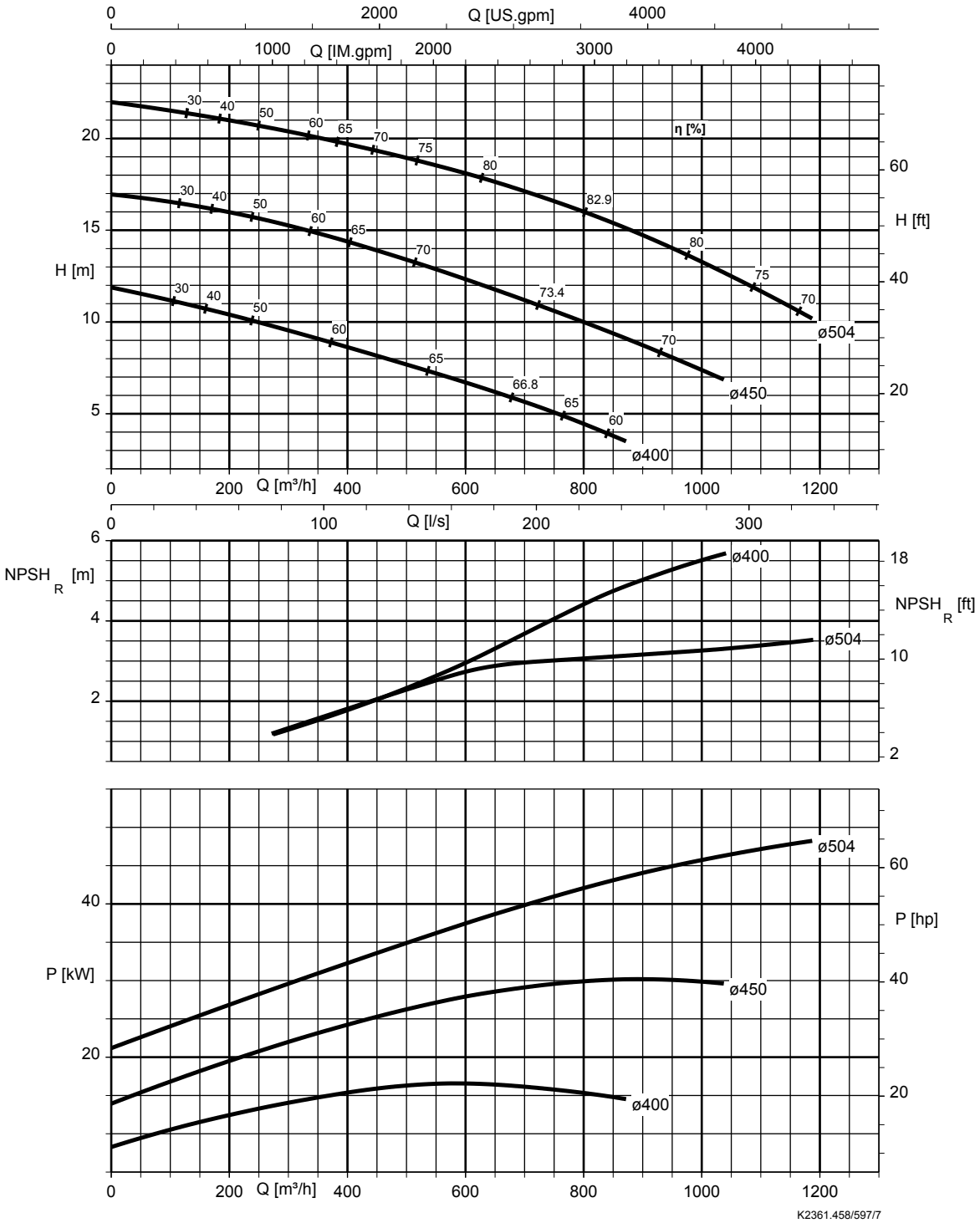


KWP K 300-300-500, n = 725 t/min



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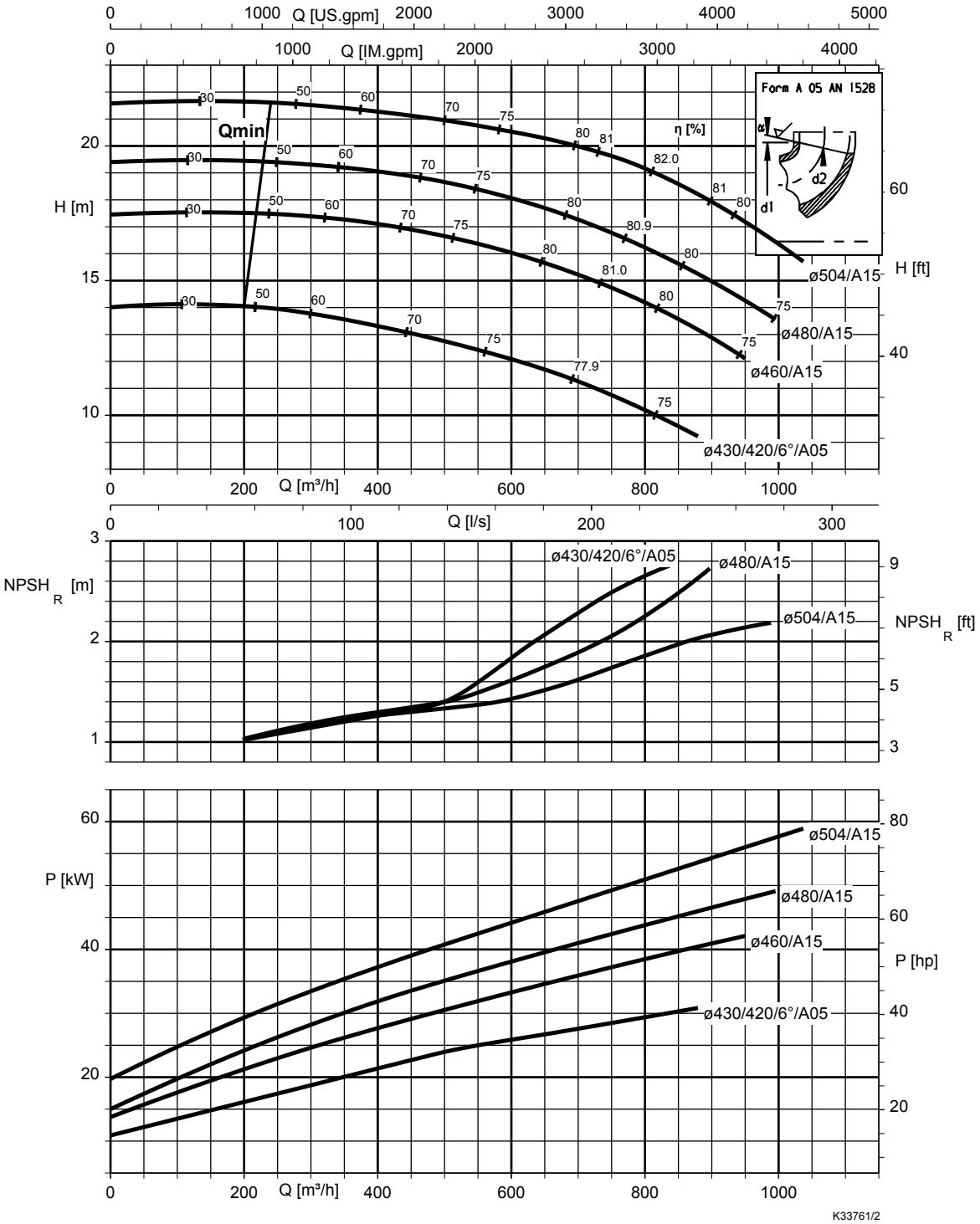
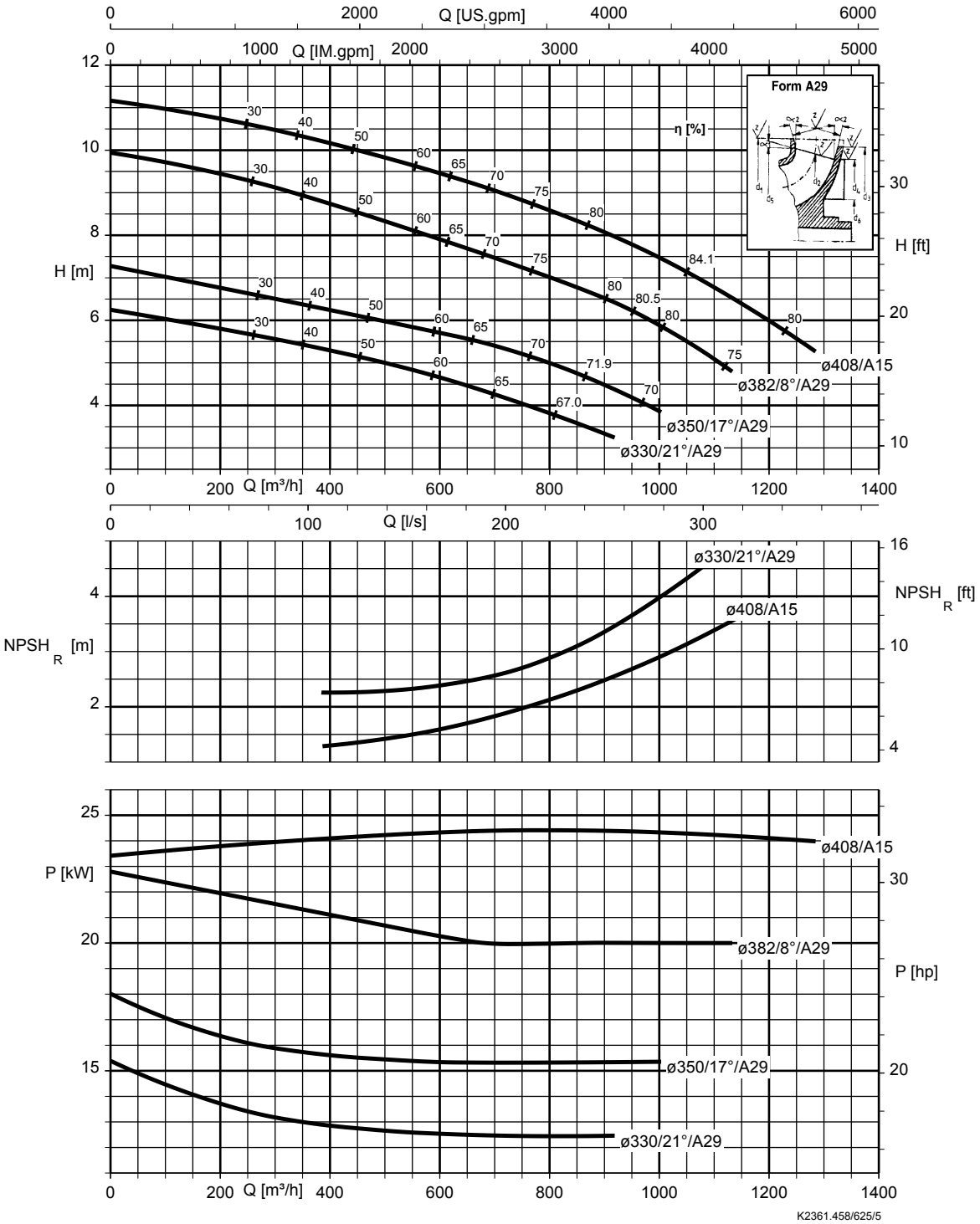
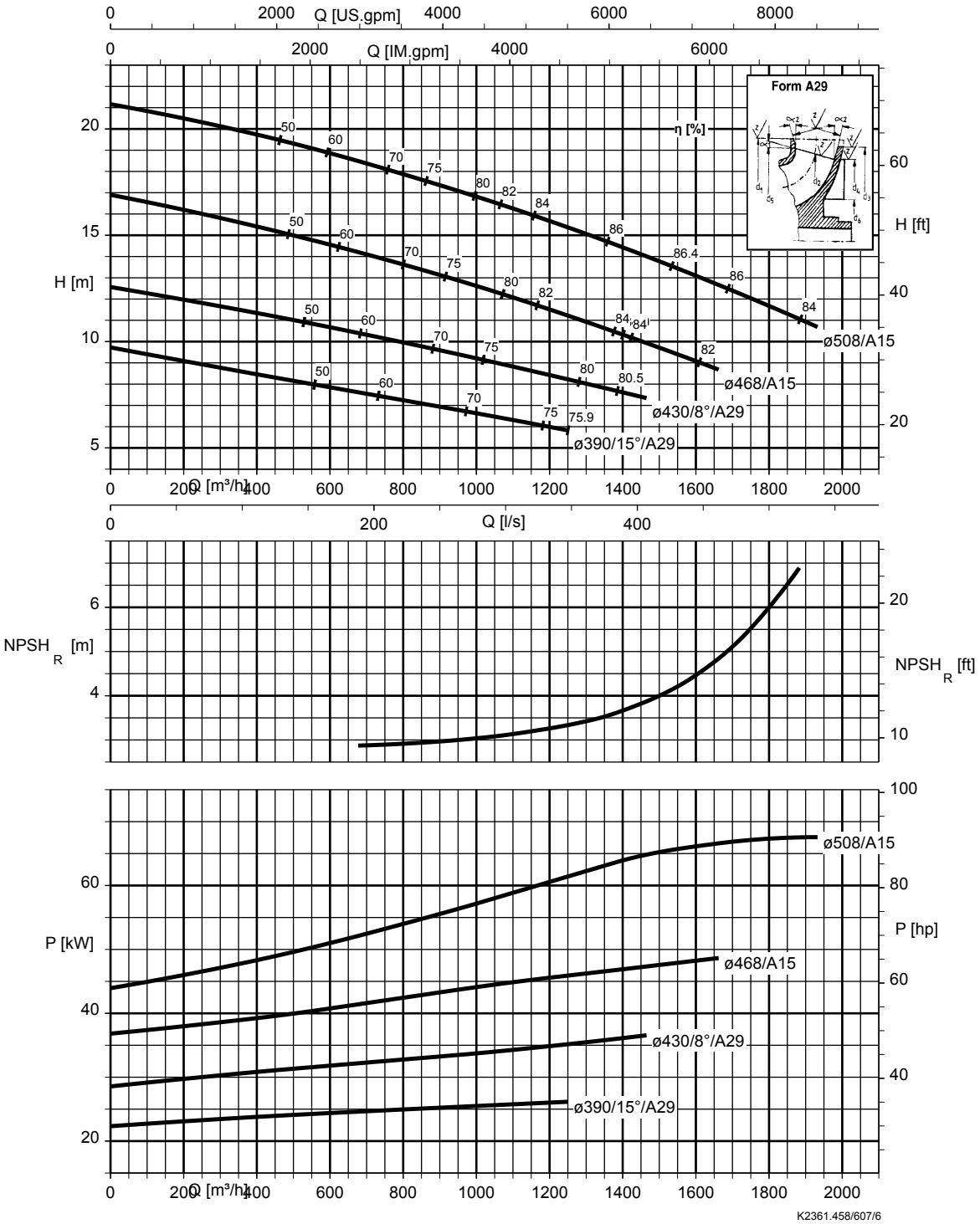


KWP K 350-350-400, n = 725 t/min



KWP K 350-350-500, n = 725 t/min



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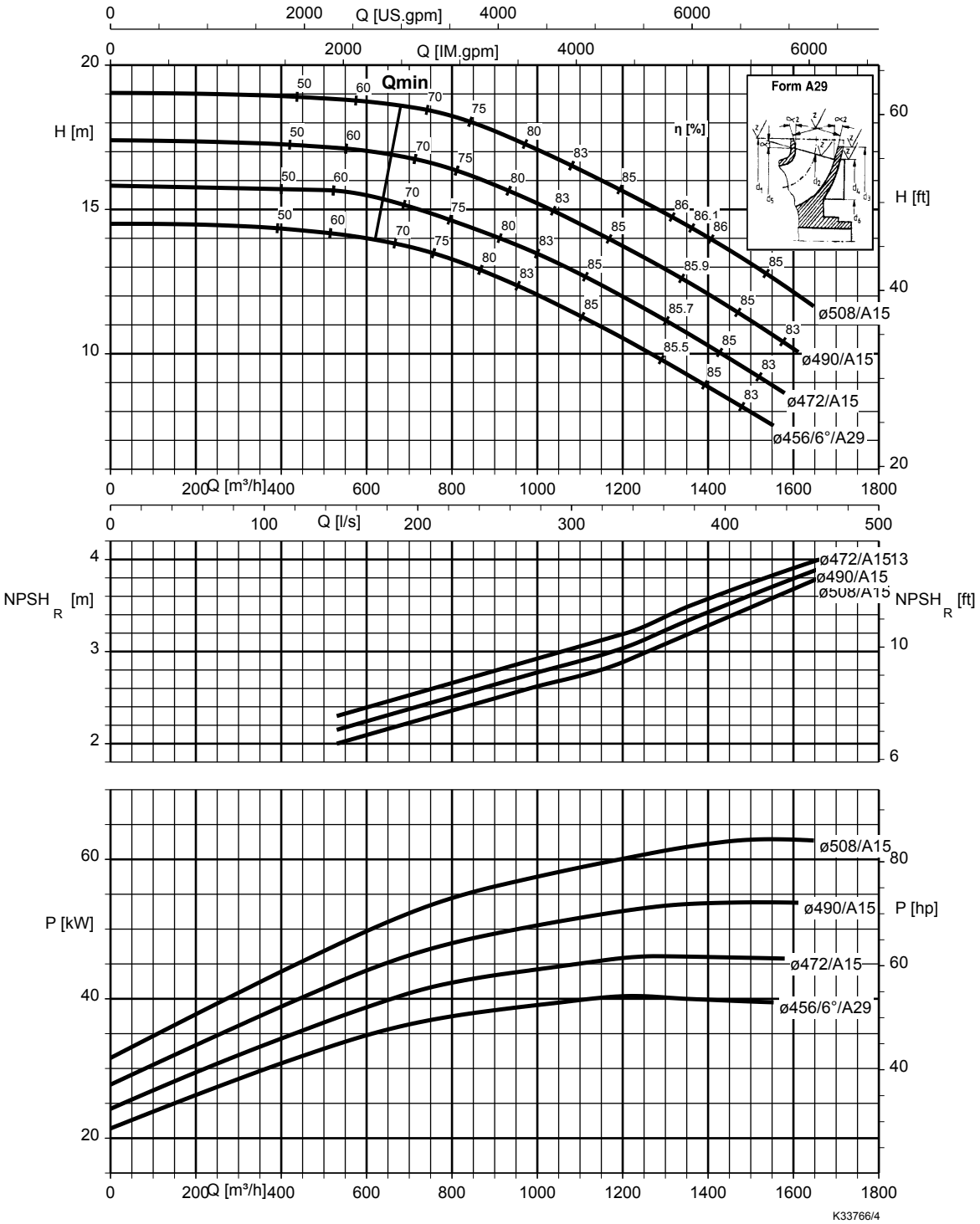

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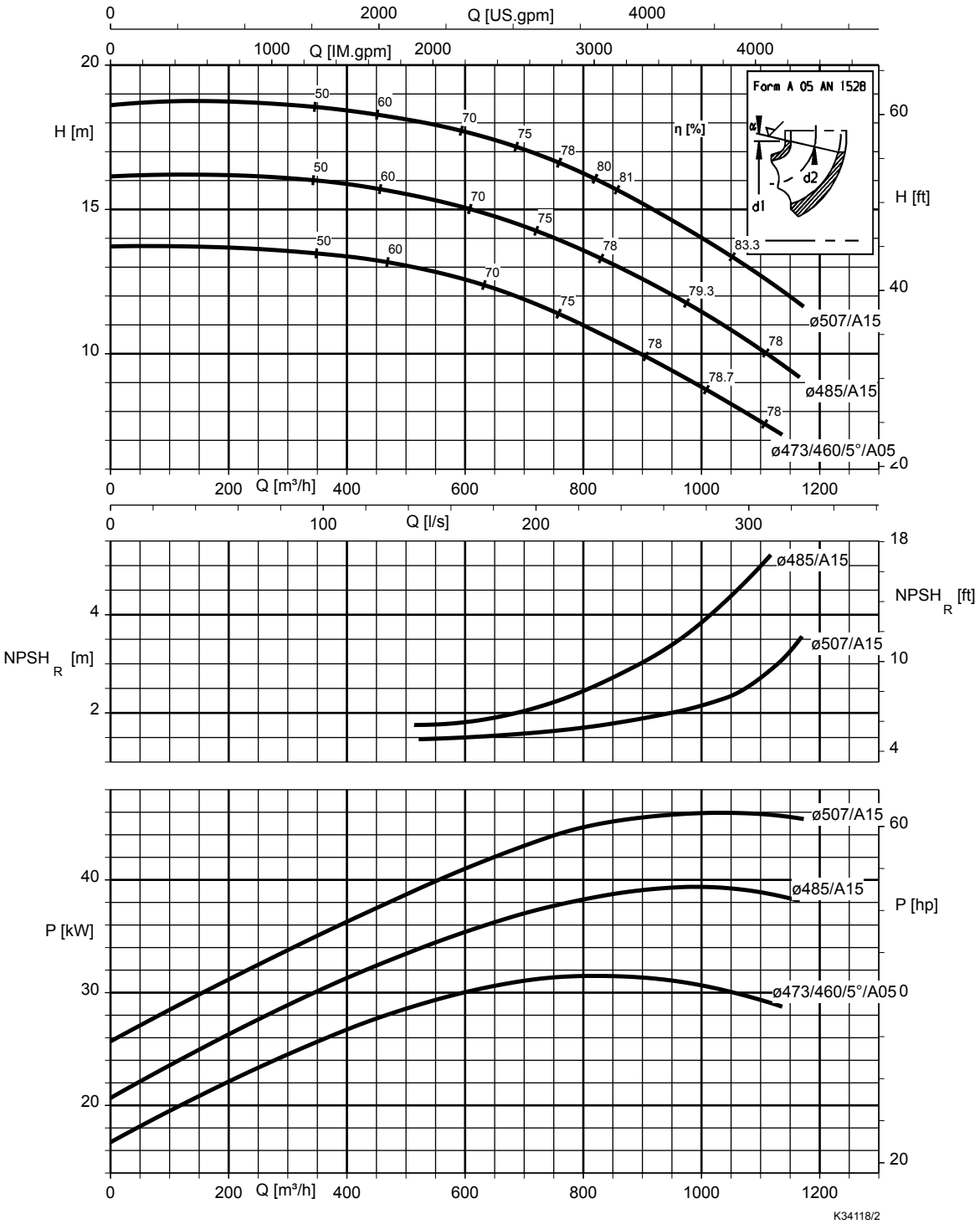
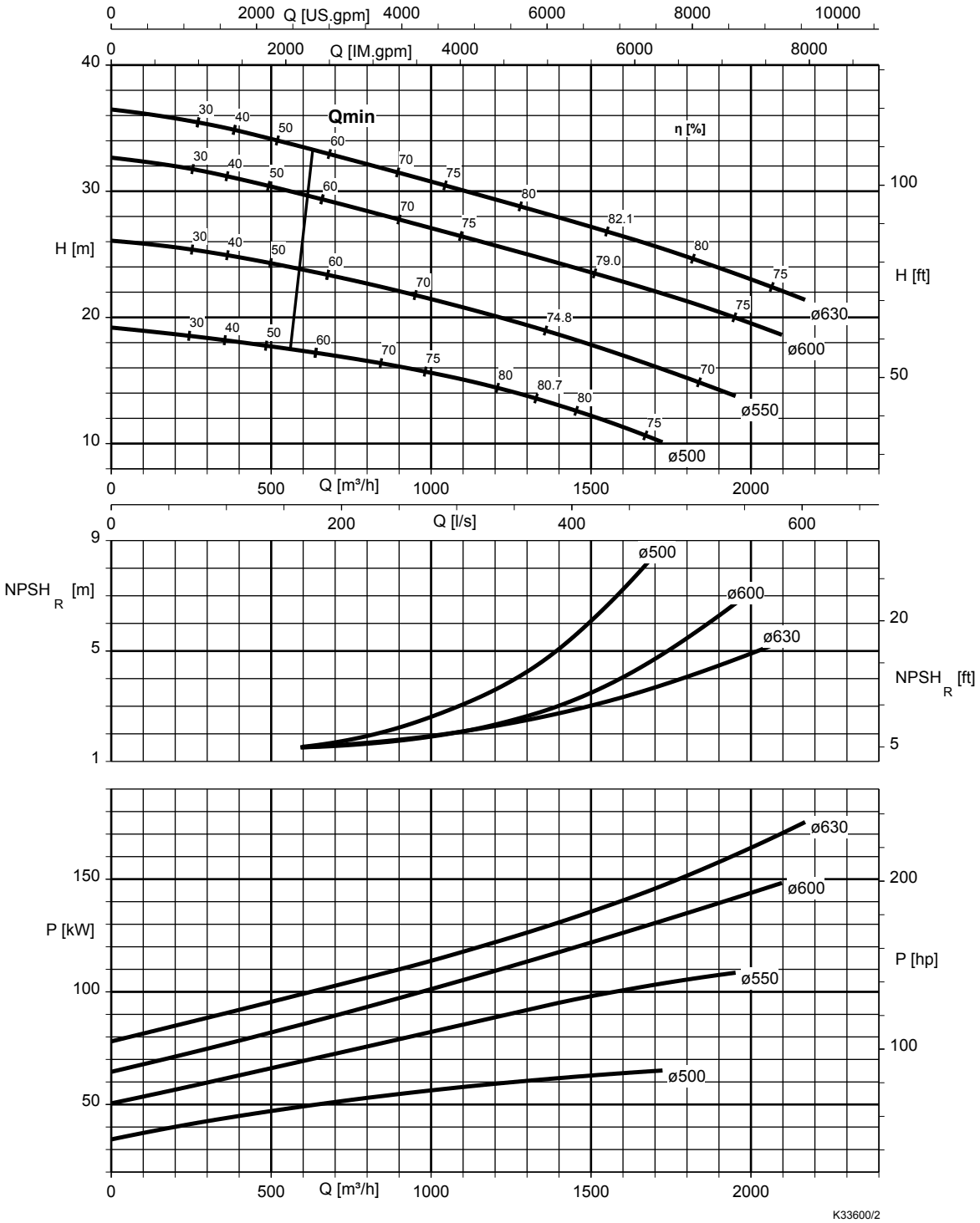
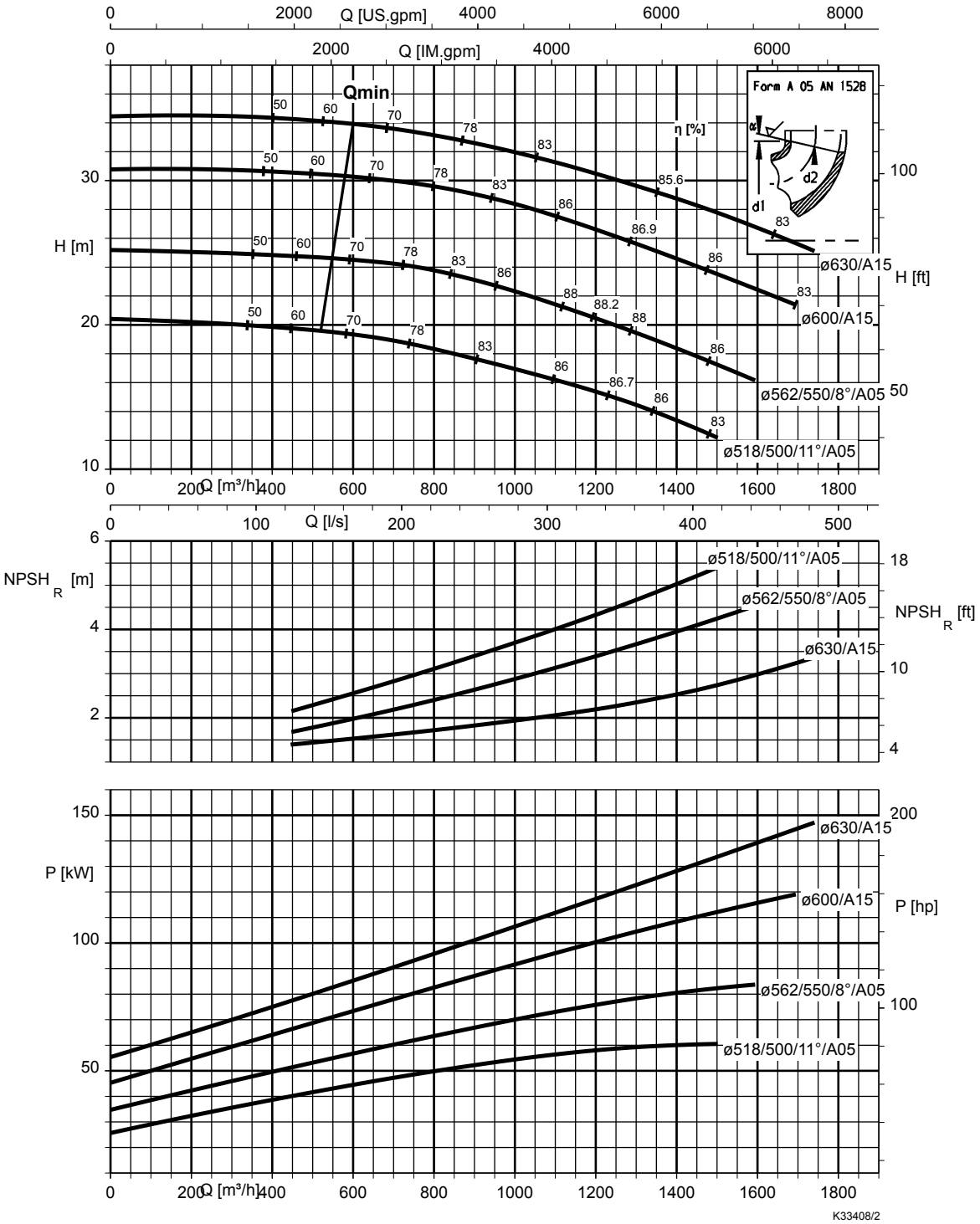


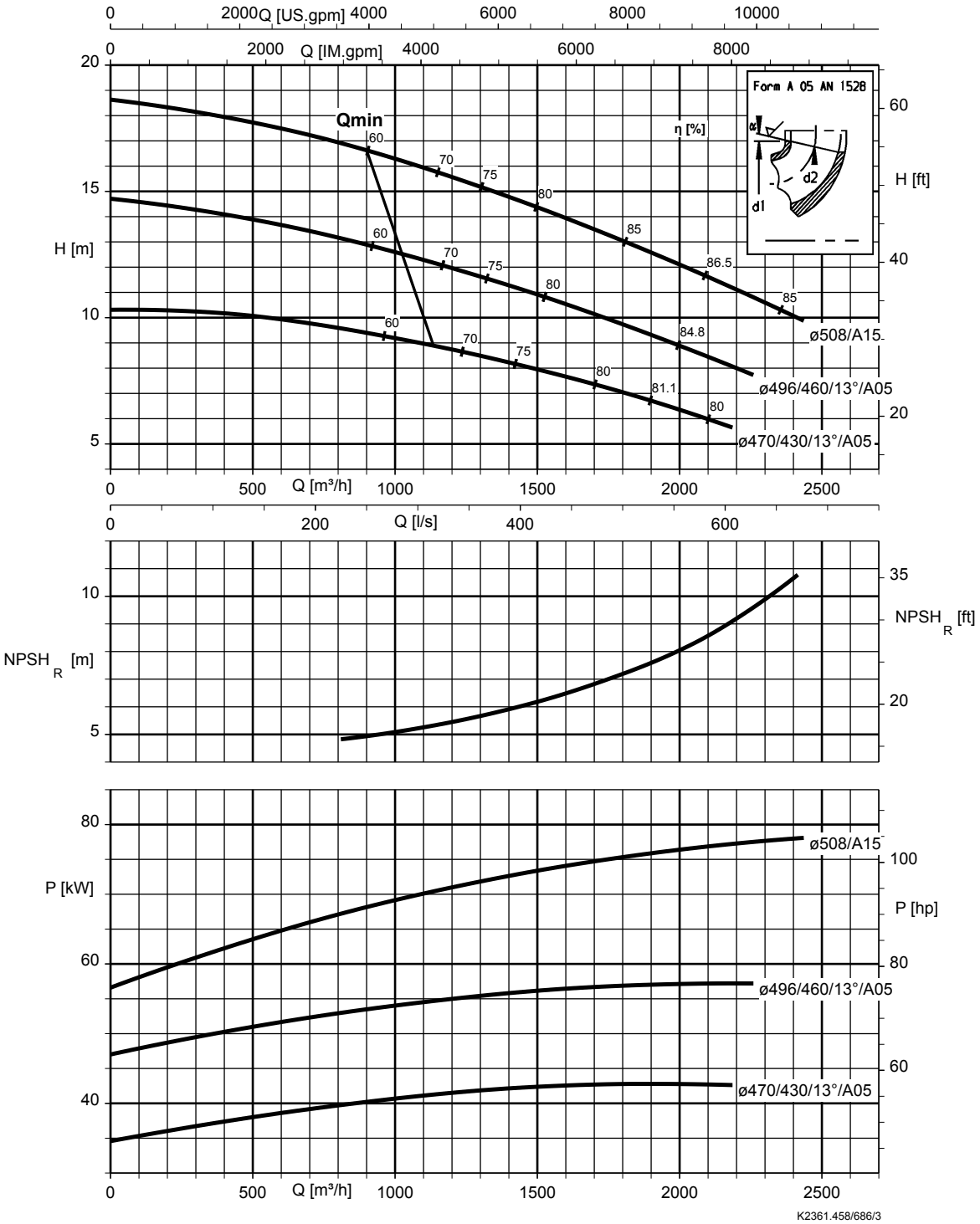
KWP K 350-350-630, n = 725 t/min



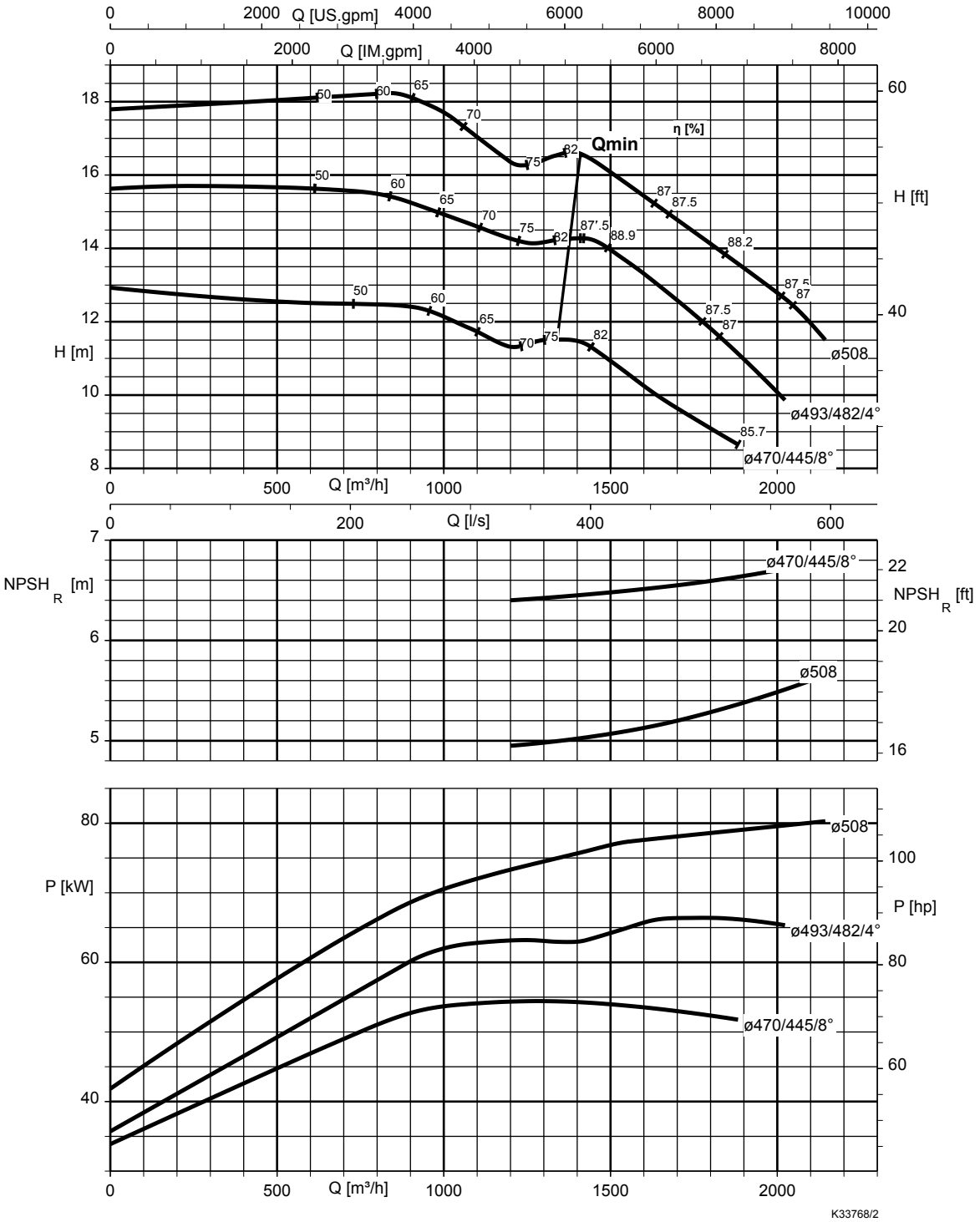
KWP K 350-350-633, n = 725 t/min



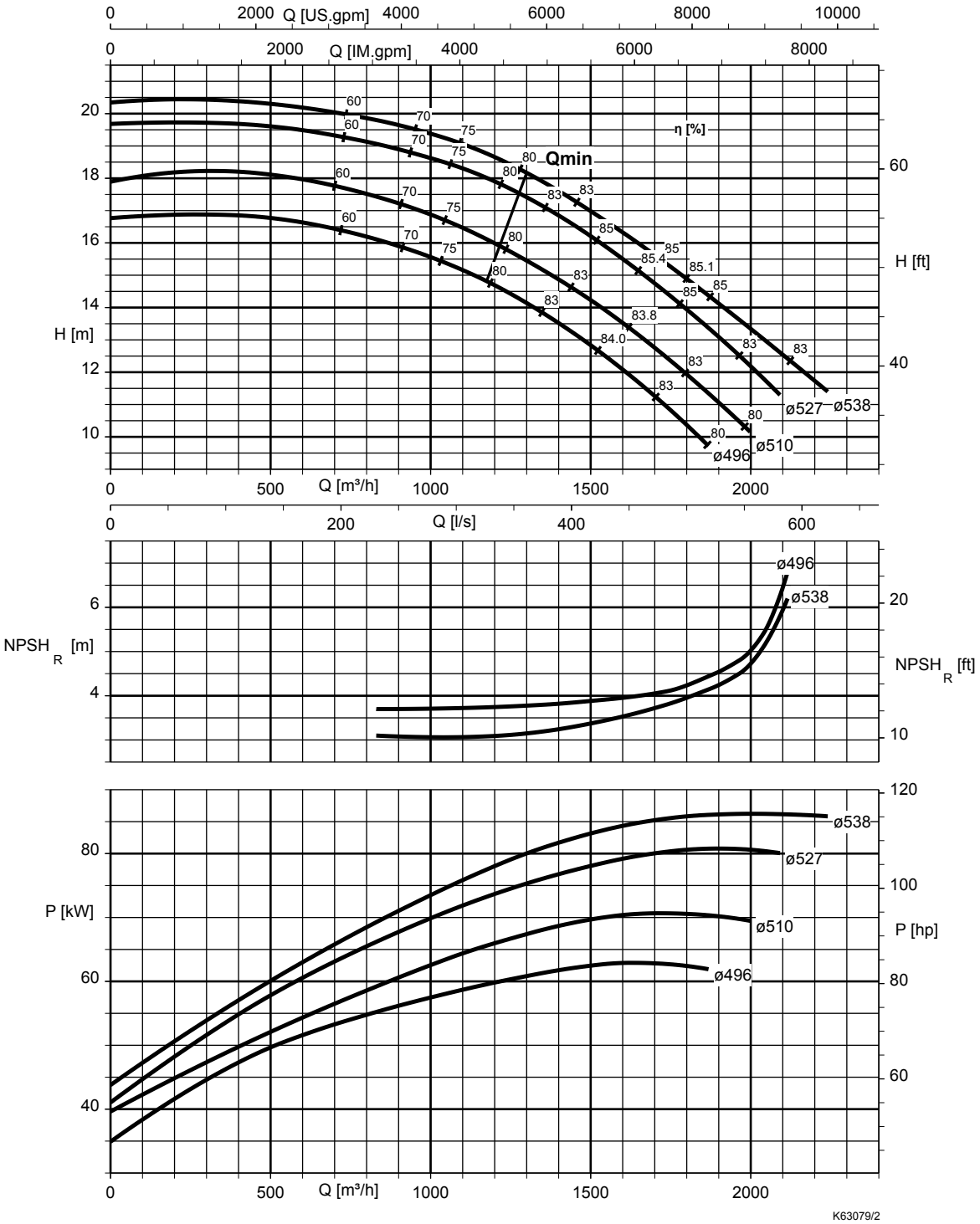
KWP K 400-400-500, n = 725 t/min



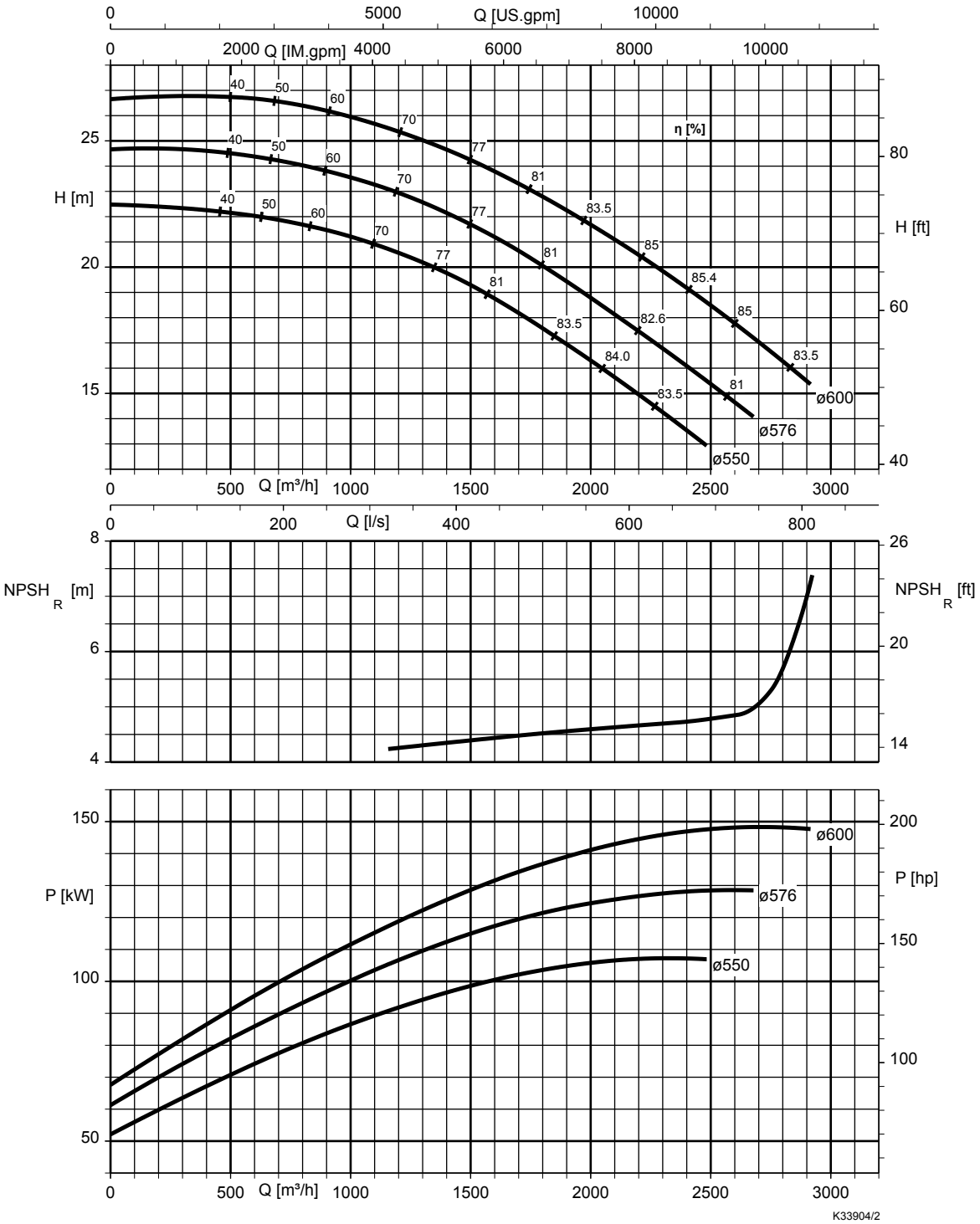
KWP K 400-400-503, n = 725 t/min



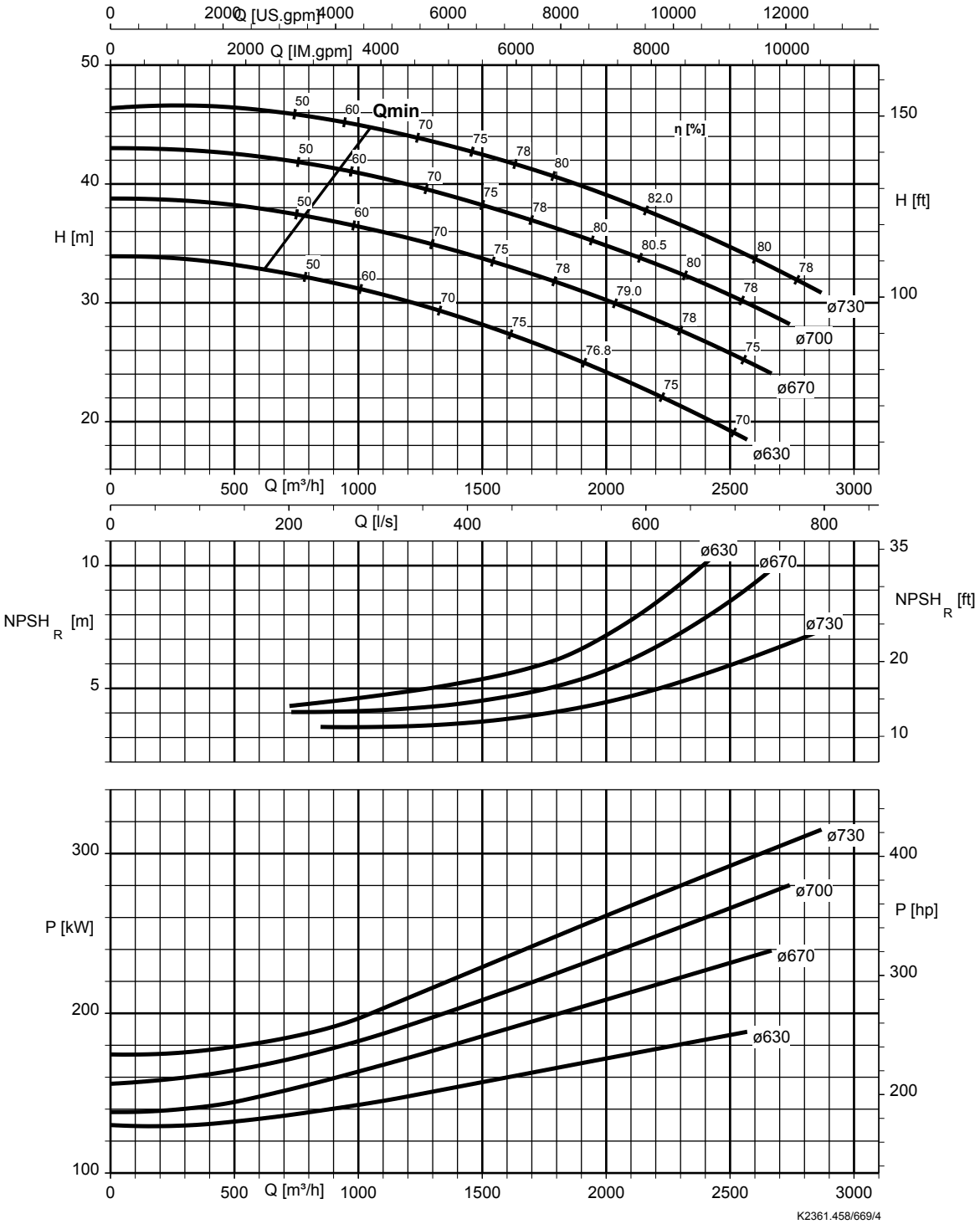
KWP K 400-400-533, n = 725 t/min



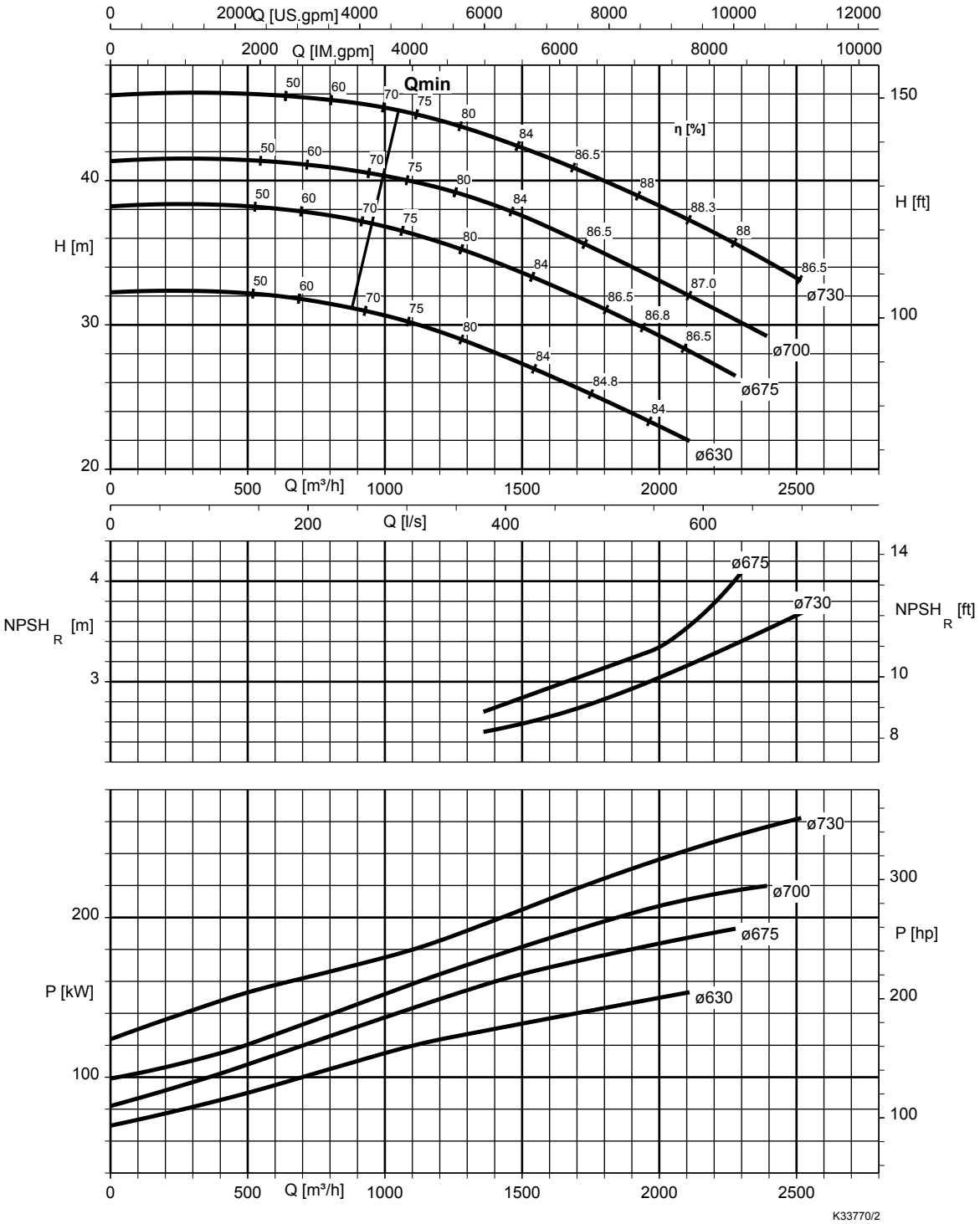
KWP K 400-400-583, n = 725 t/min



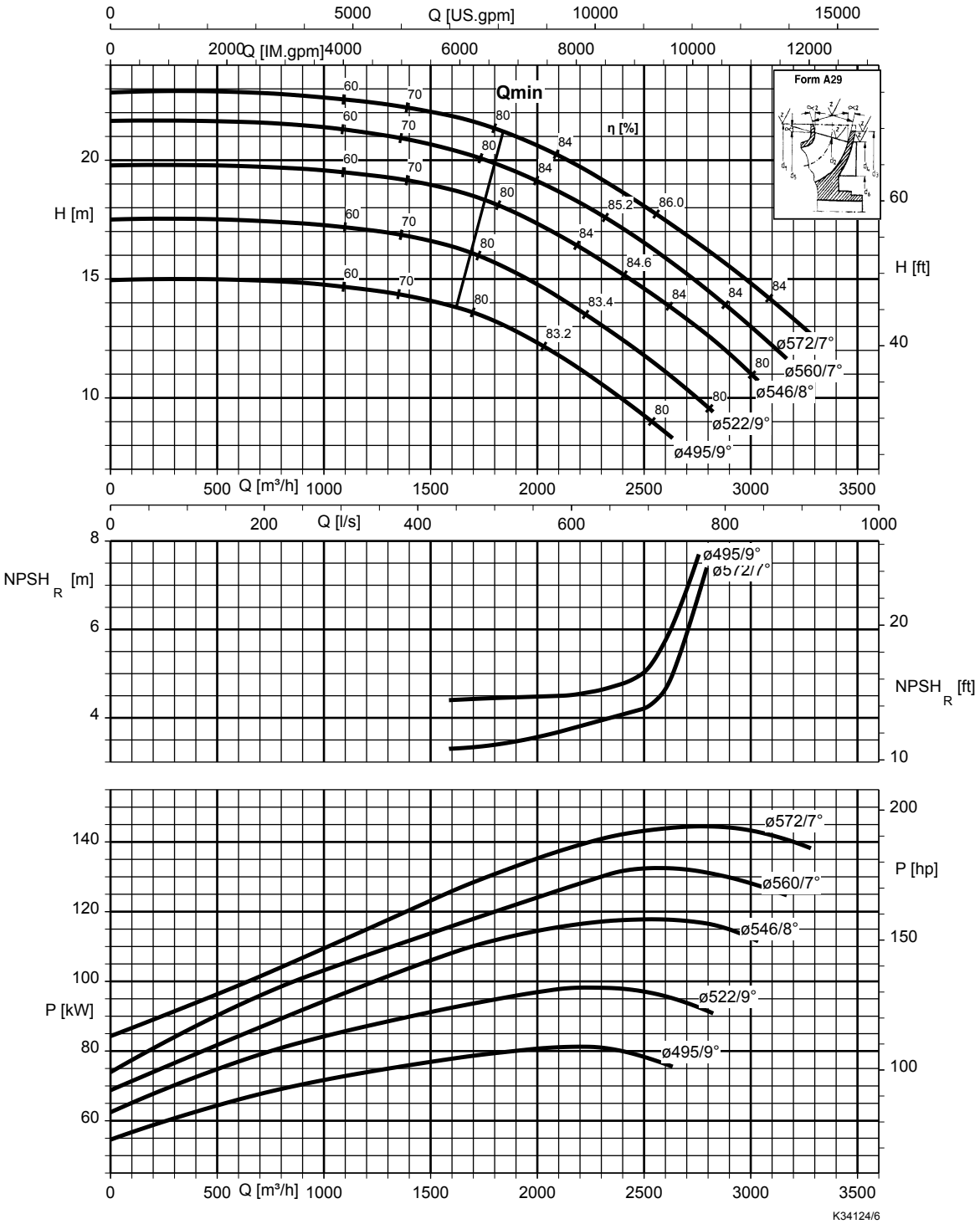
KWP K 500-400-710, n = 725 t/min



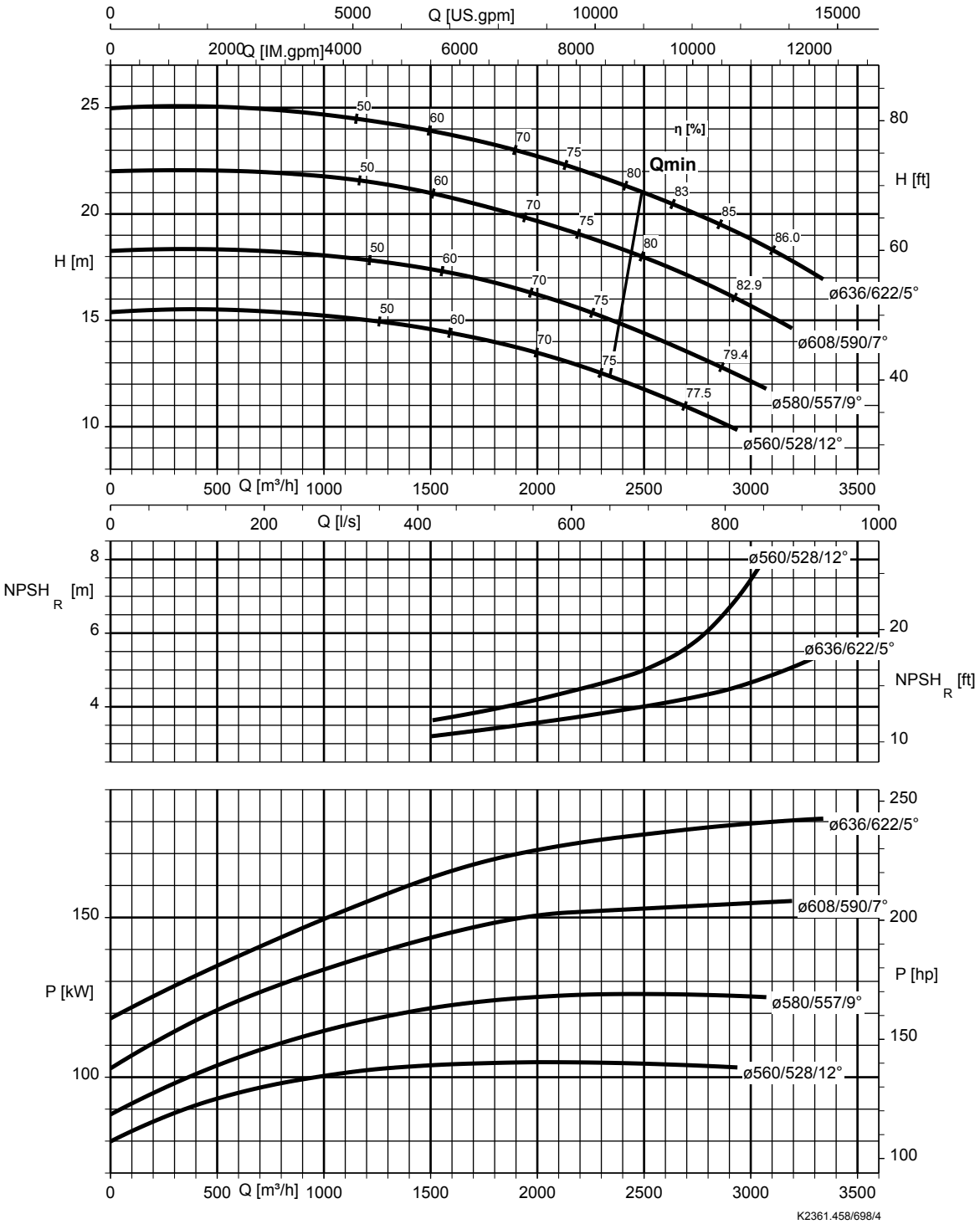
KWP K 500-400-713, n = 725 t/min



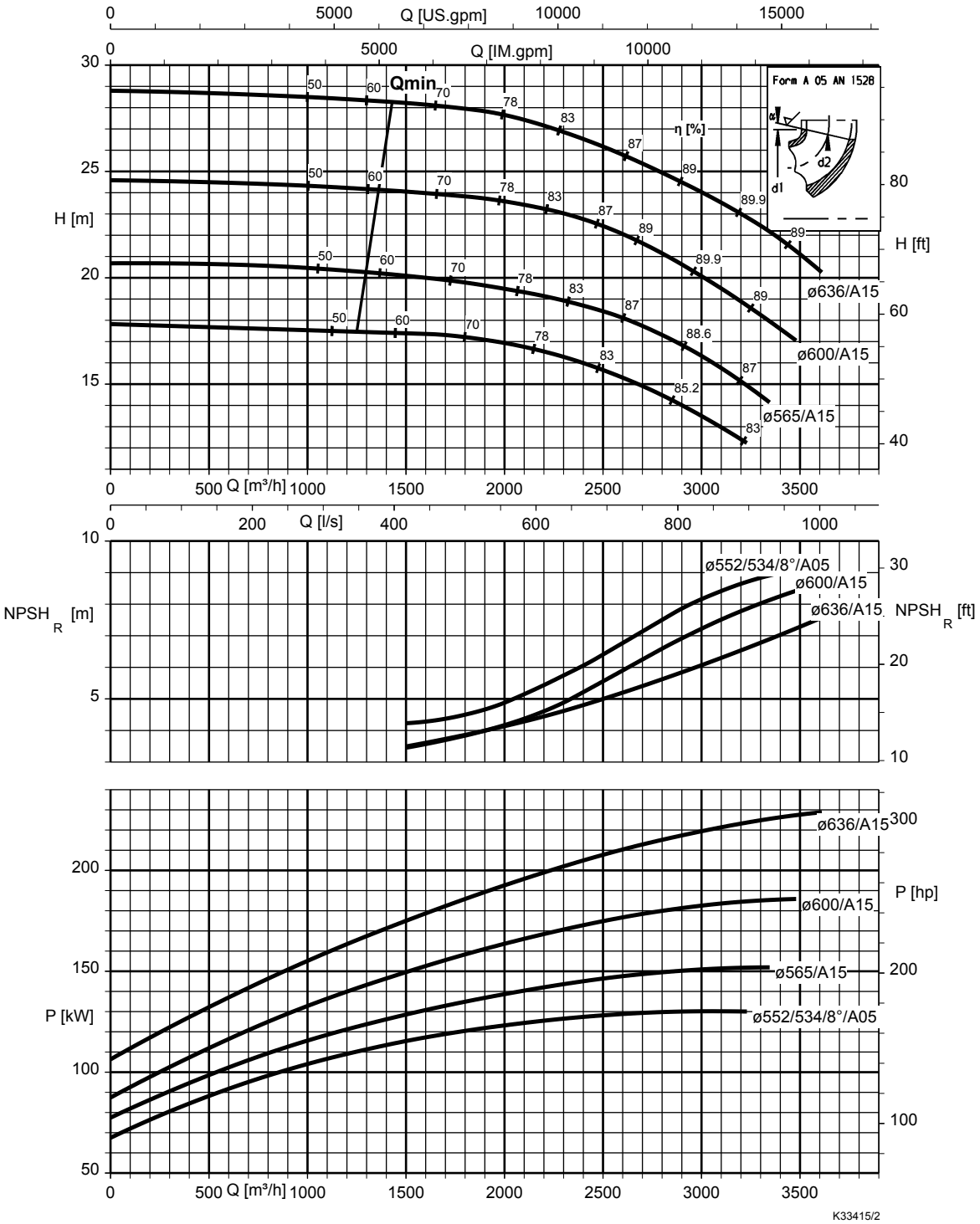
KWP K 500-500-544, n = 725 t/min



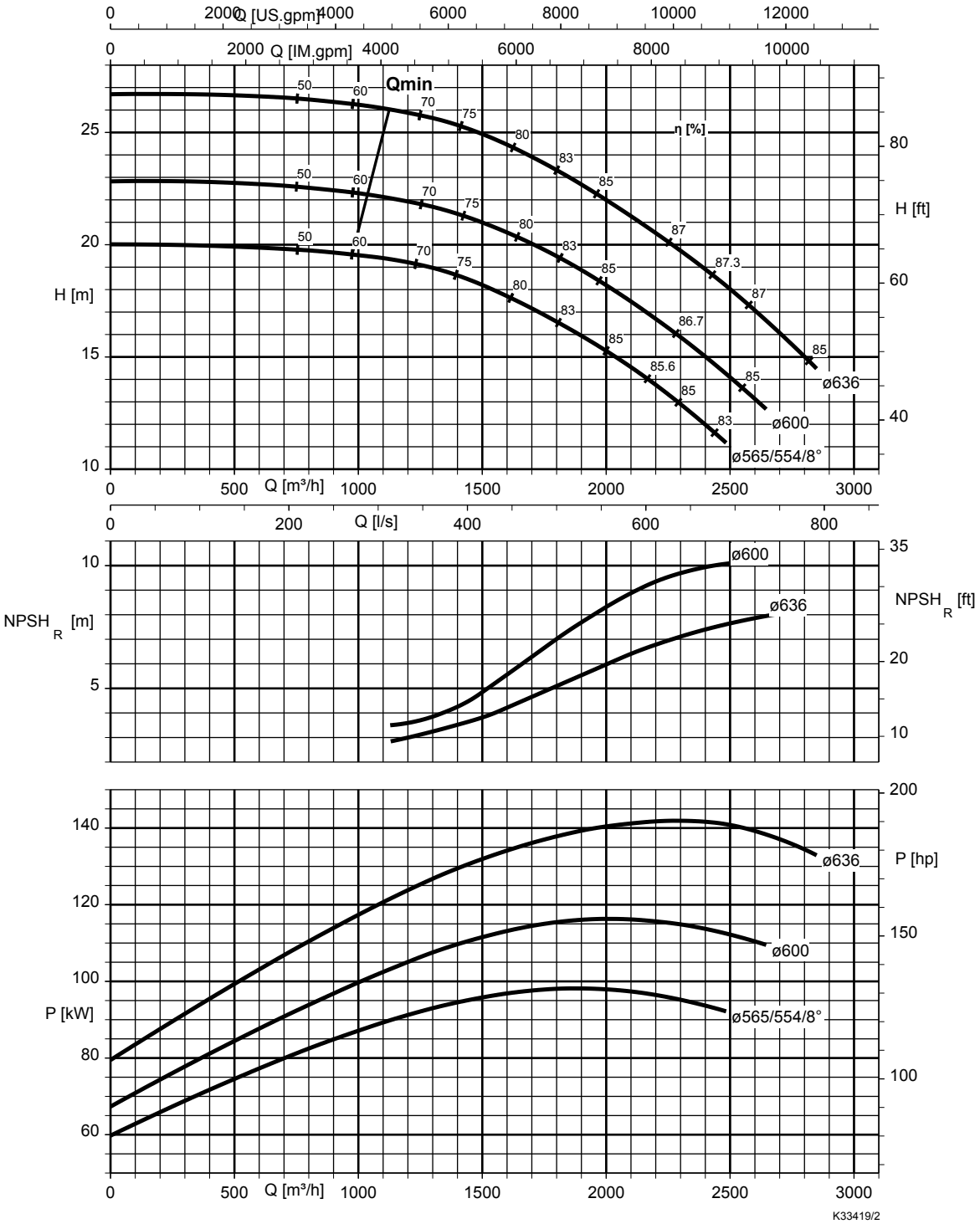
KWP K 500-500-630, n = 725 t/min



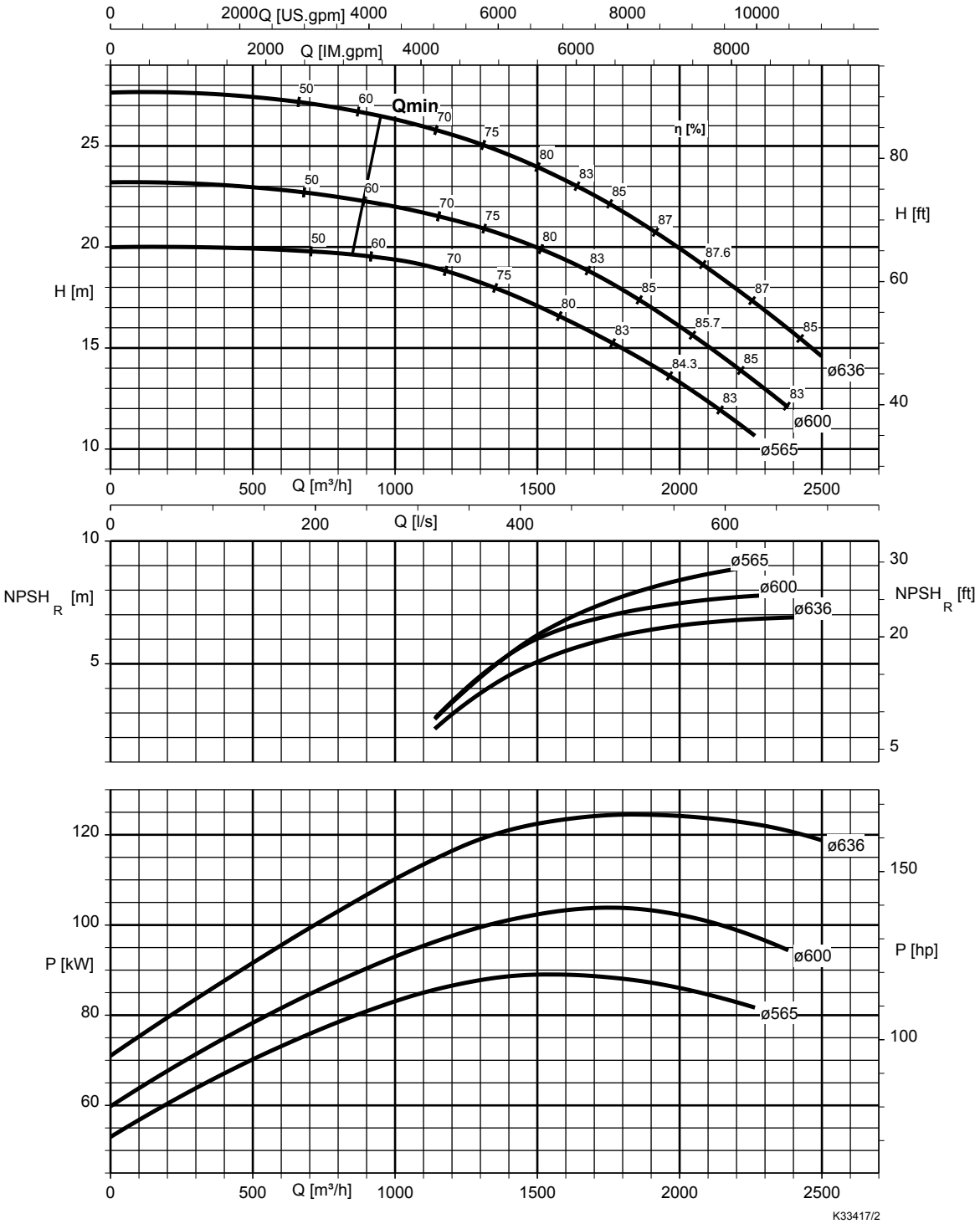
KWP K 500-500-633, n = 725 t/min



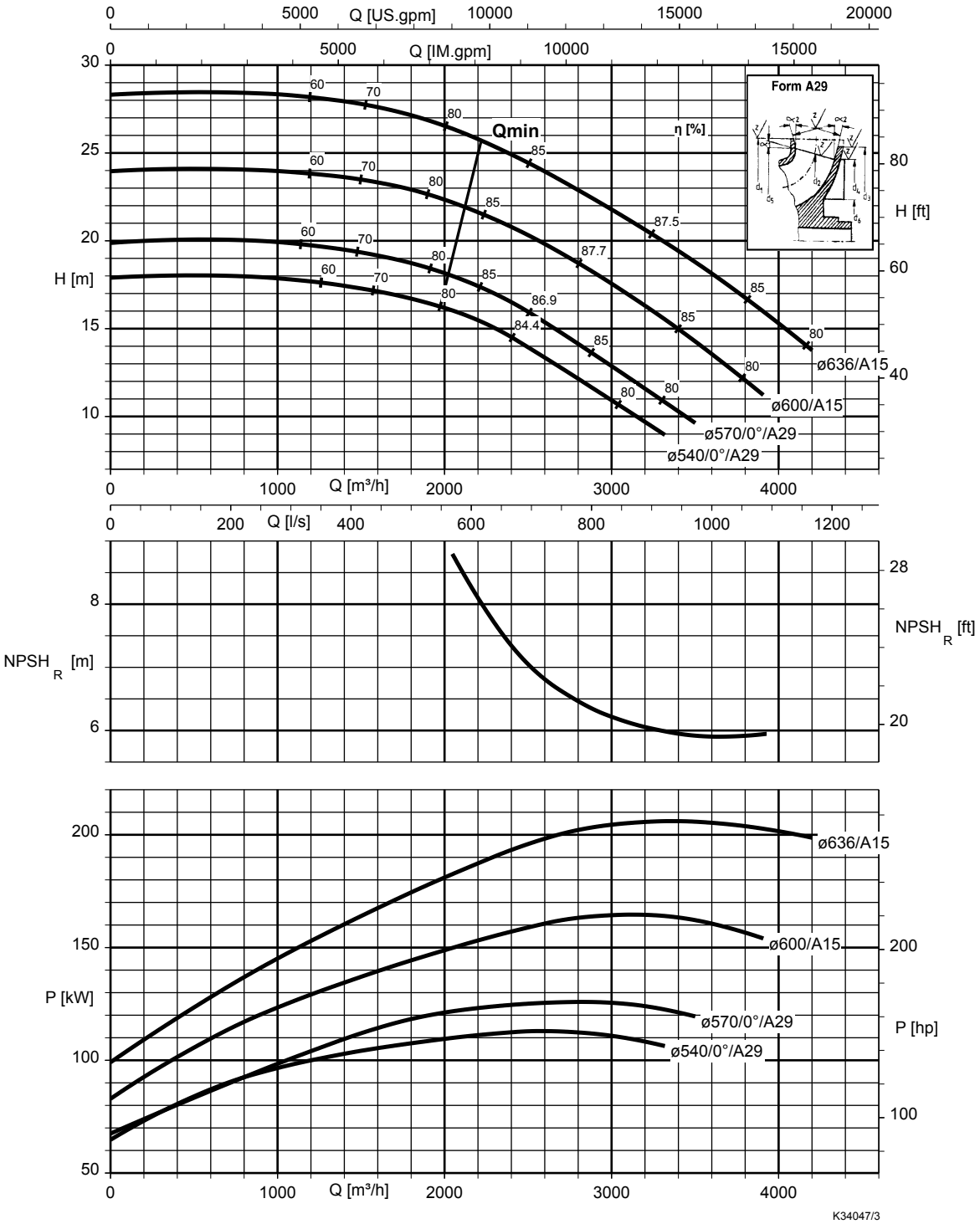
KWP K 500-500-634, n = 725 t/min



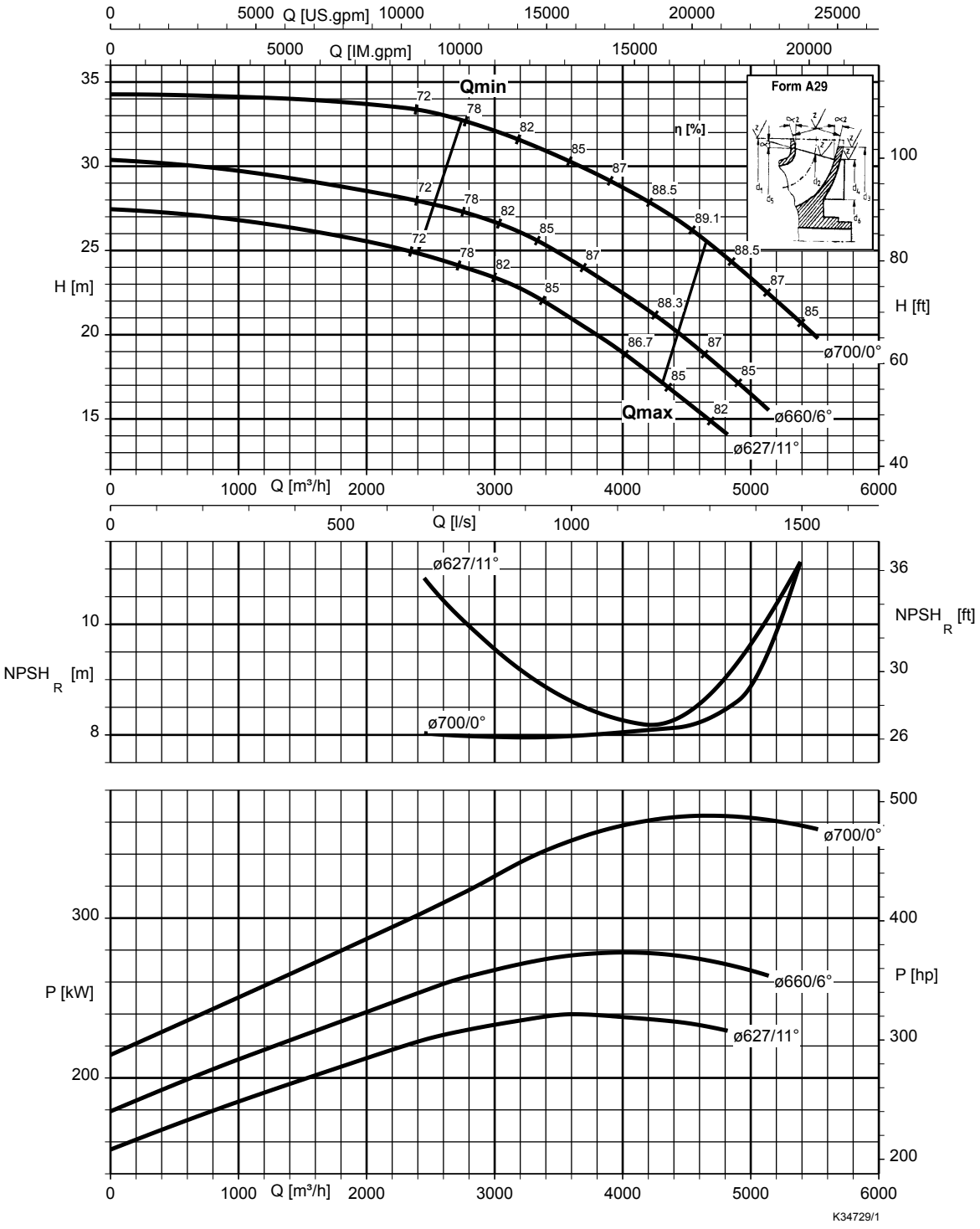
KWP K 500-500-635, n = 725 t/min



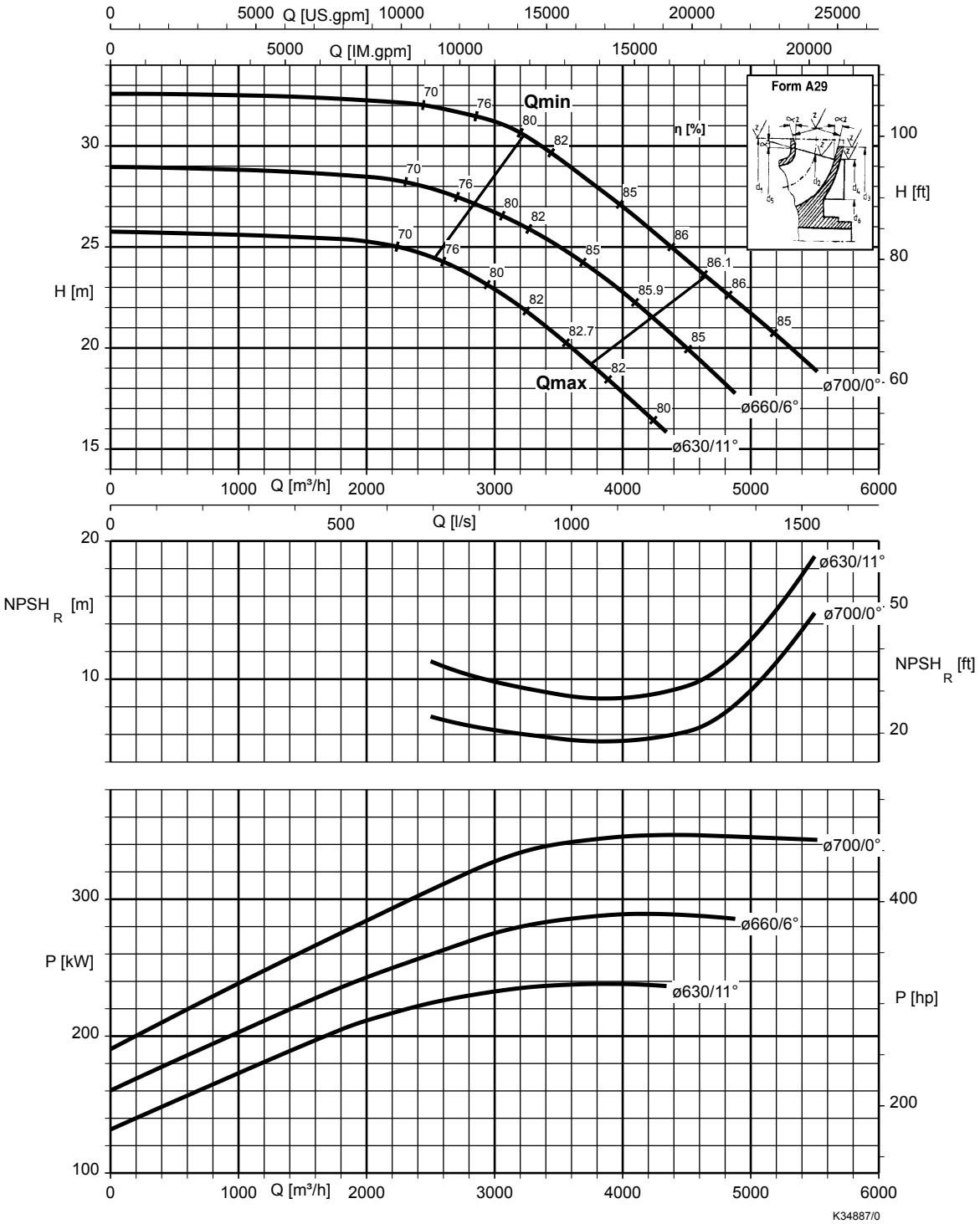
KWP K 500-500-637, n = 725 t/min



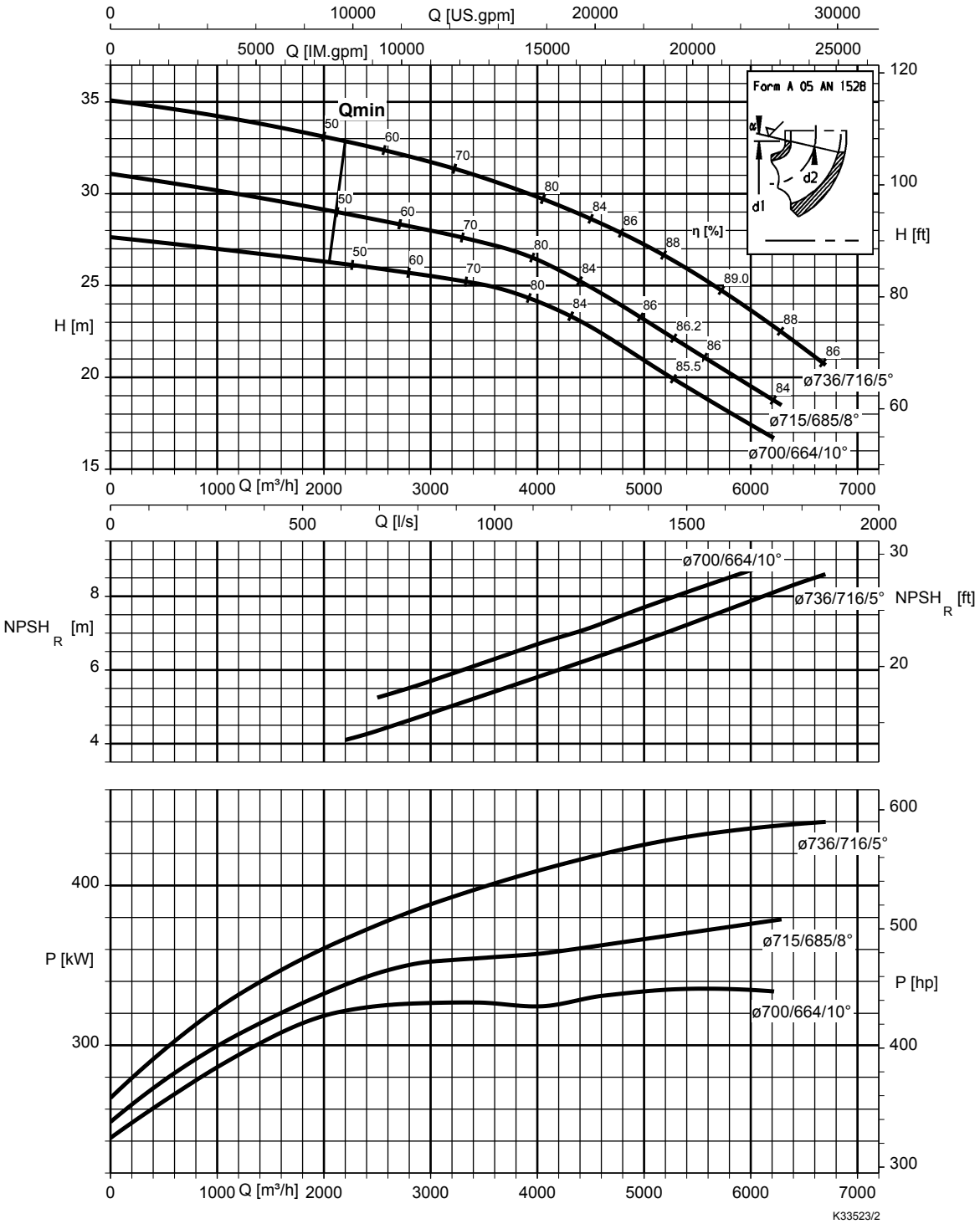
KWP K 600-600-663, n = 725 t/min



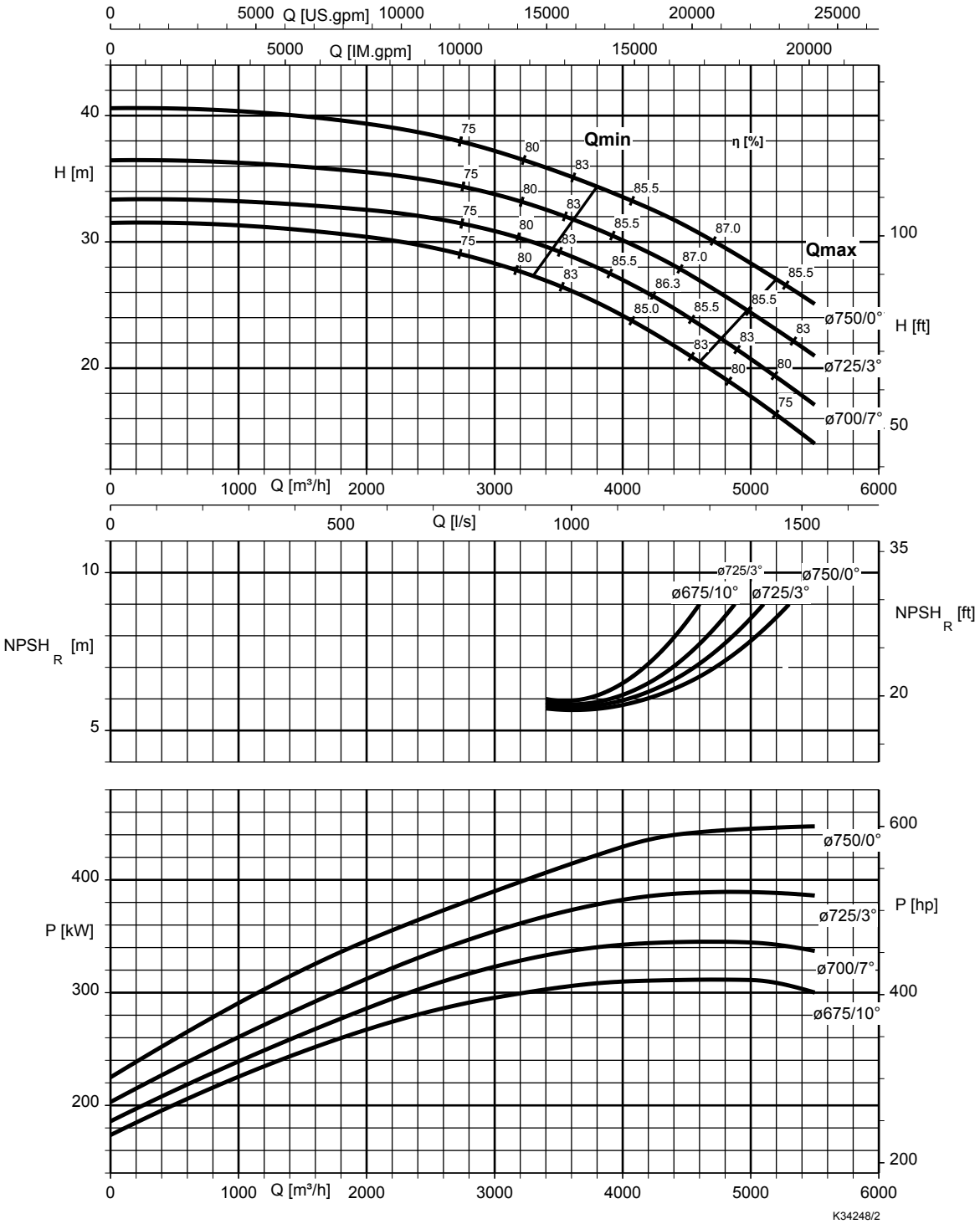
KWP K 600-600-669, n = 725 t/min



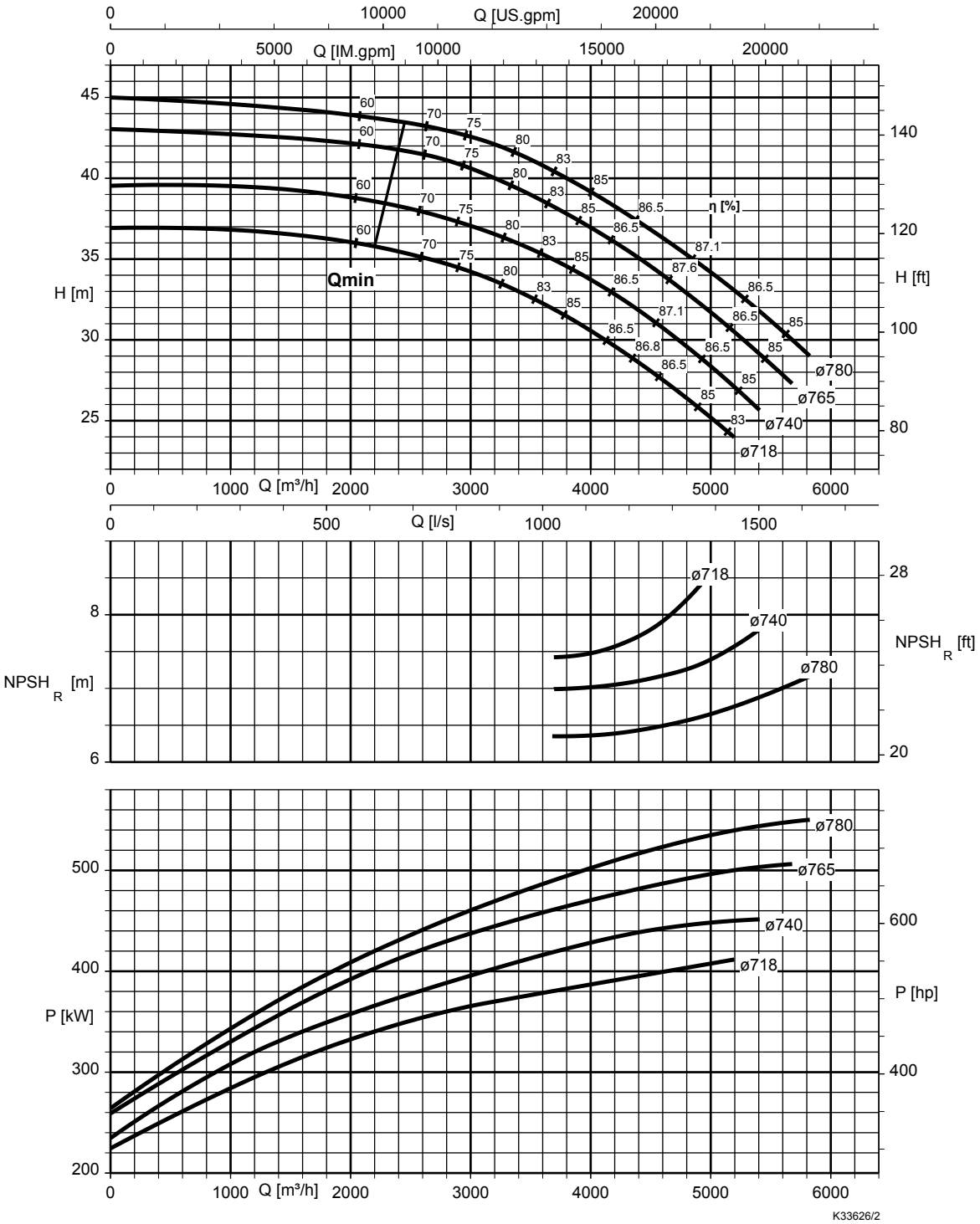
KWP K 600-600-710, n = 725 t/min



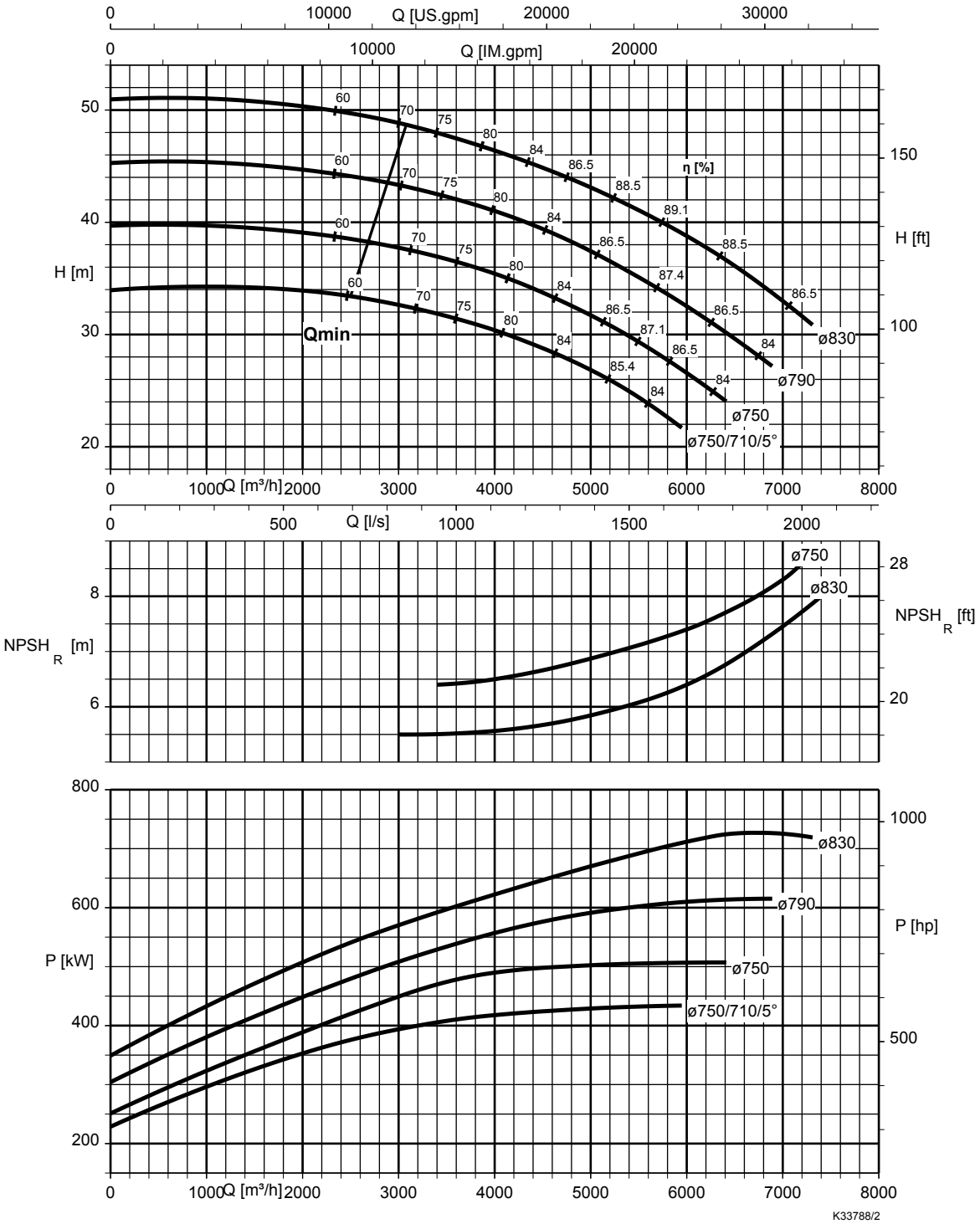
KWP K 600-600-753, n = 725 t/min



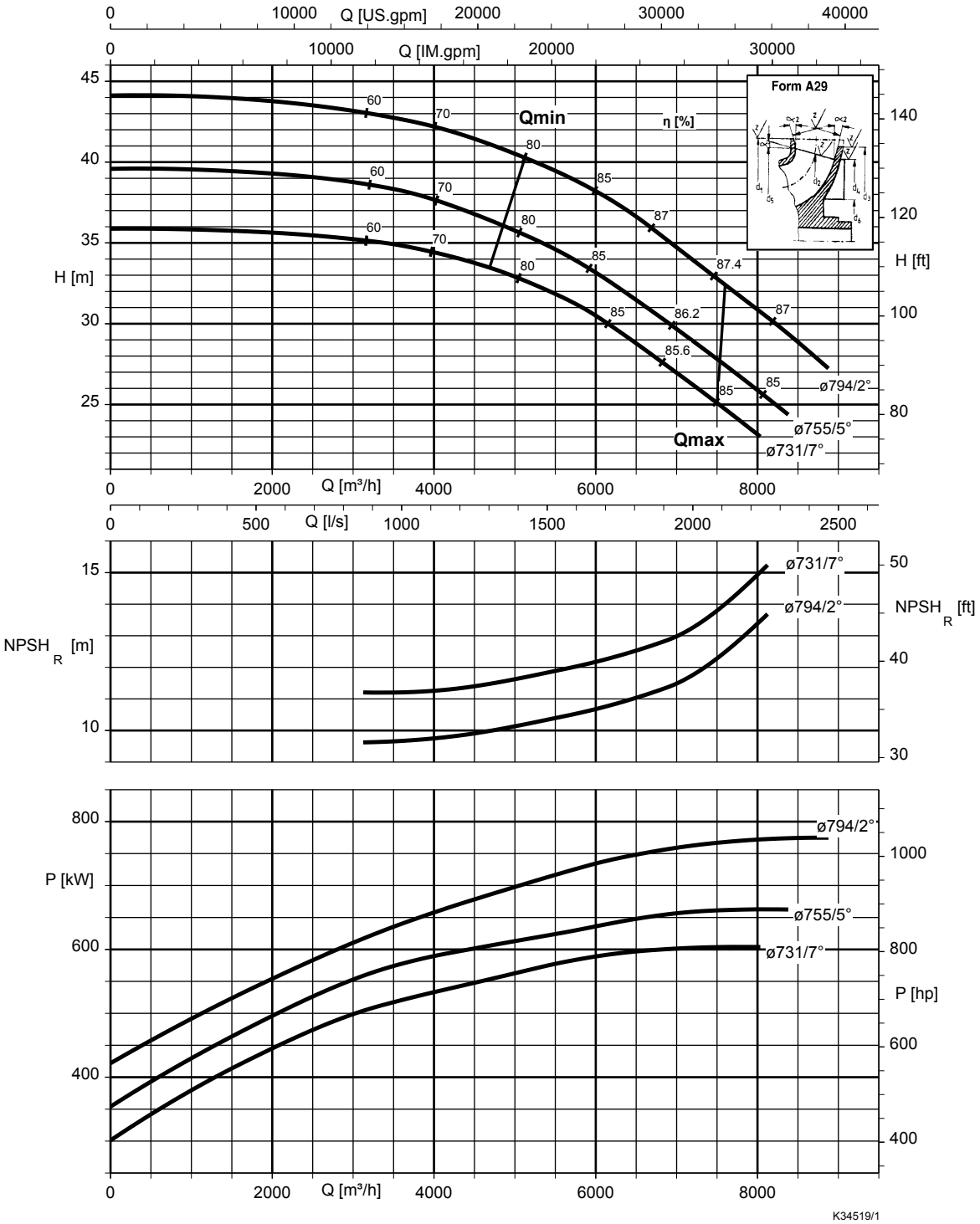
KWP K 600-600-803, n = 725 t/min



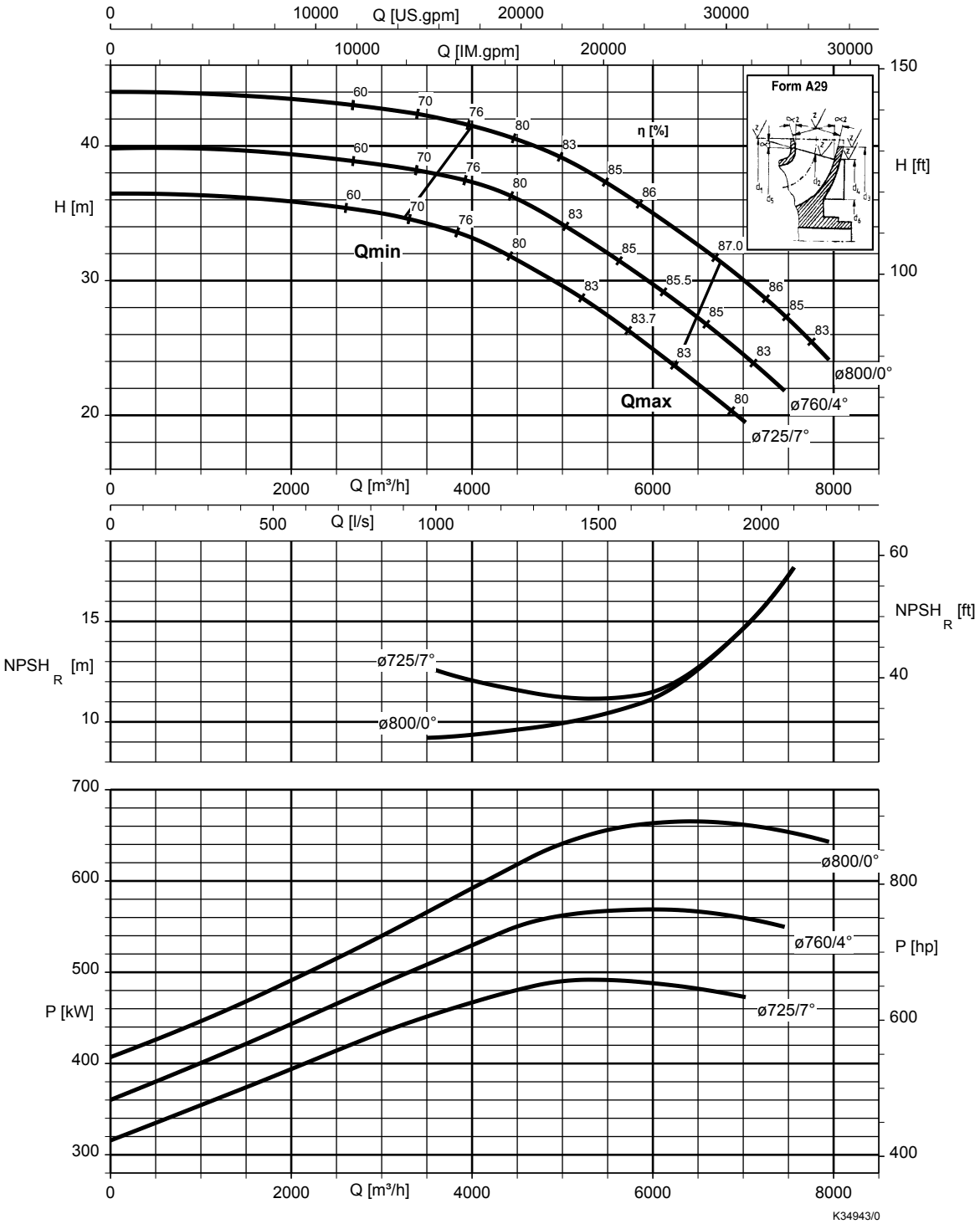
KWP K 600-600-813, n = 725 t/min



KWP K 600-600-824, n = 725 t/min

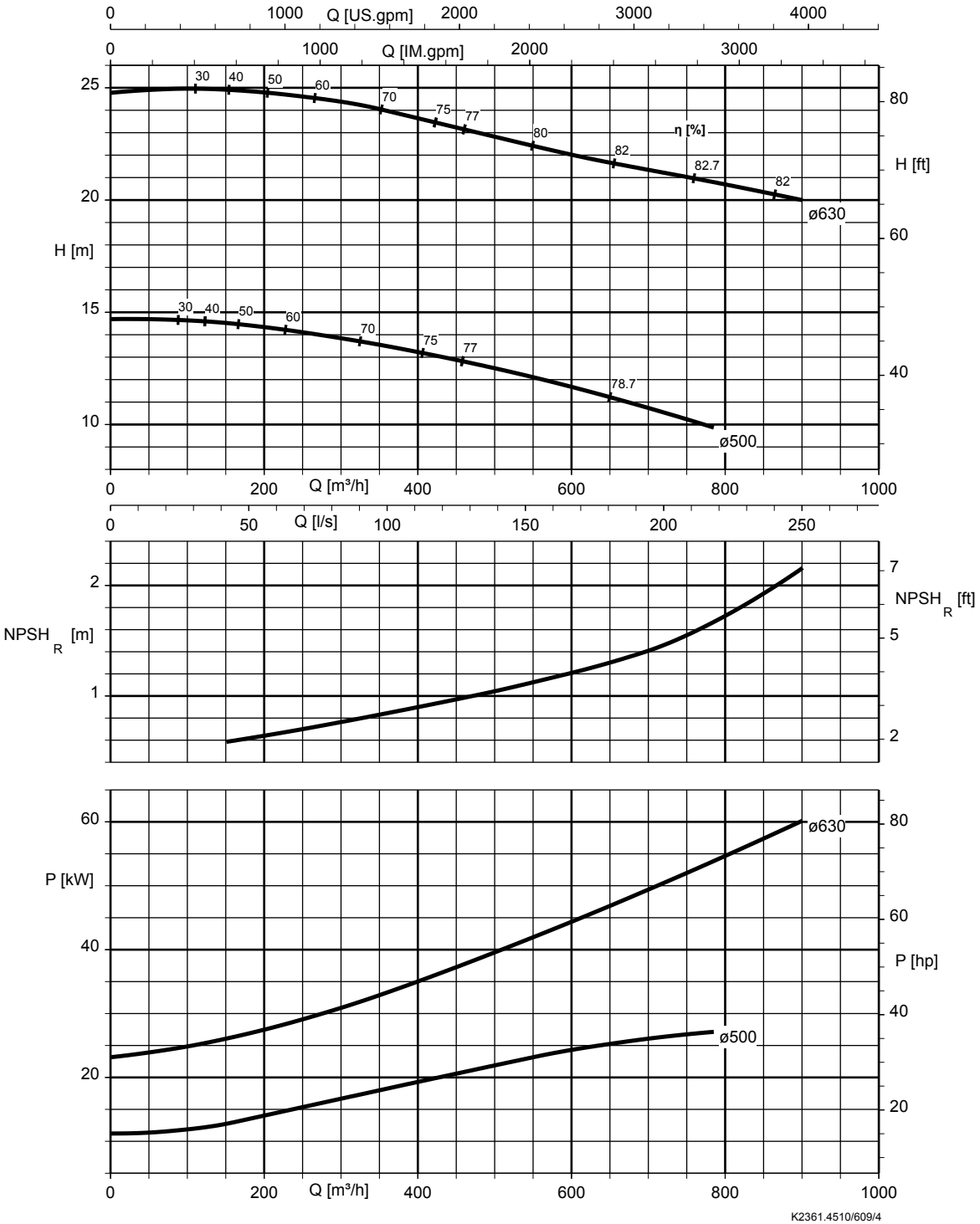


KWP K 600-600-825, n = 725 t/min

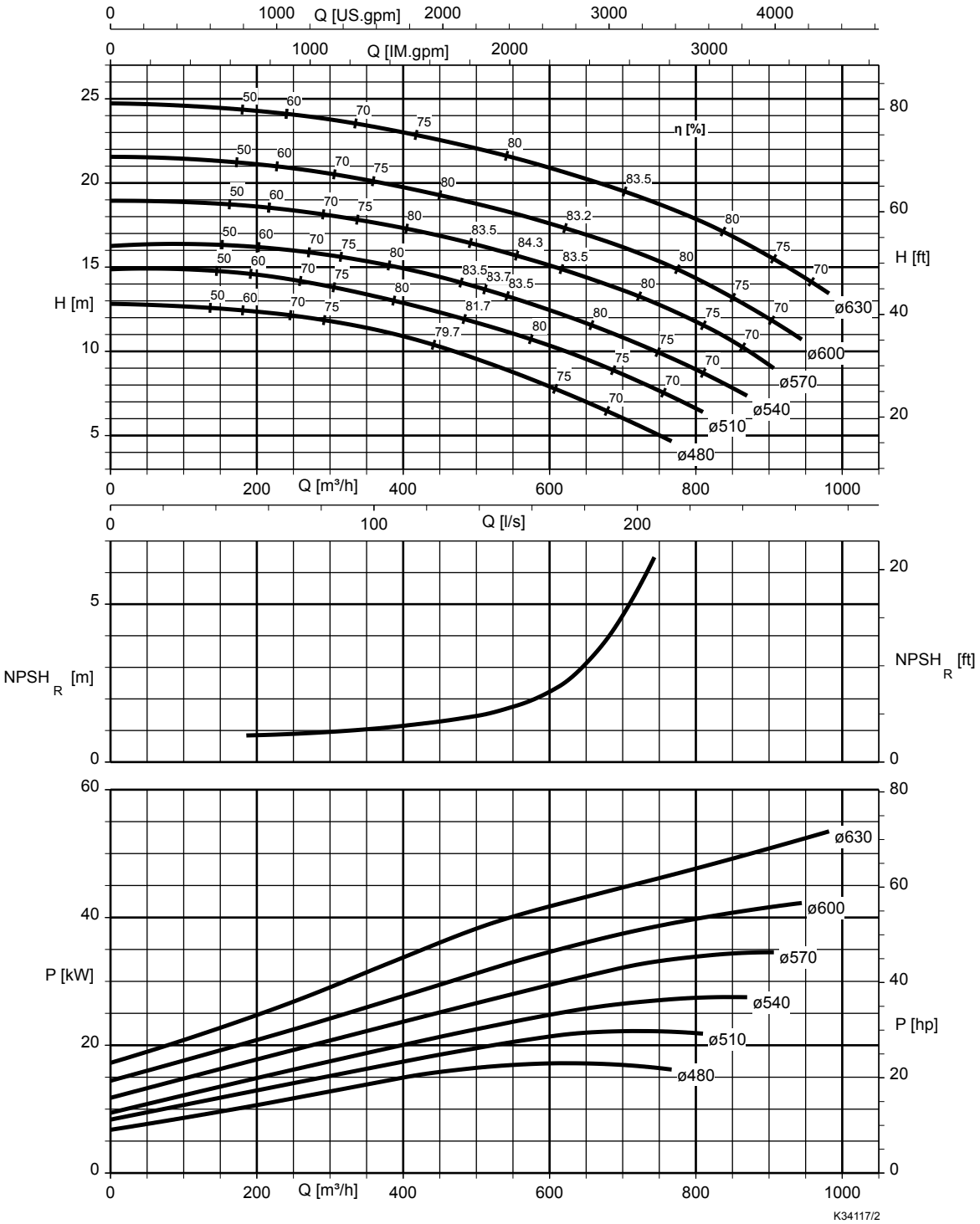


n = 580 t/min

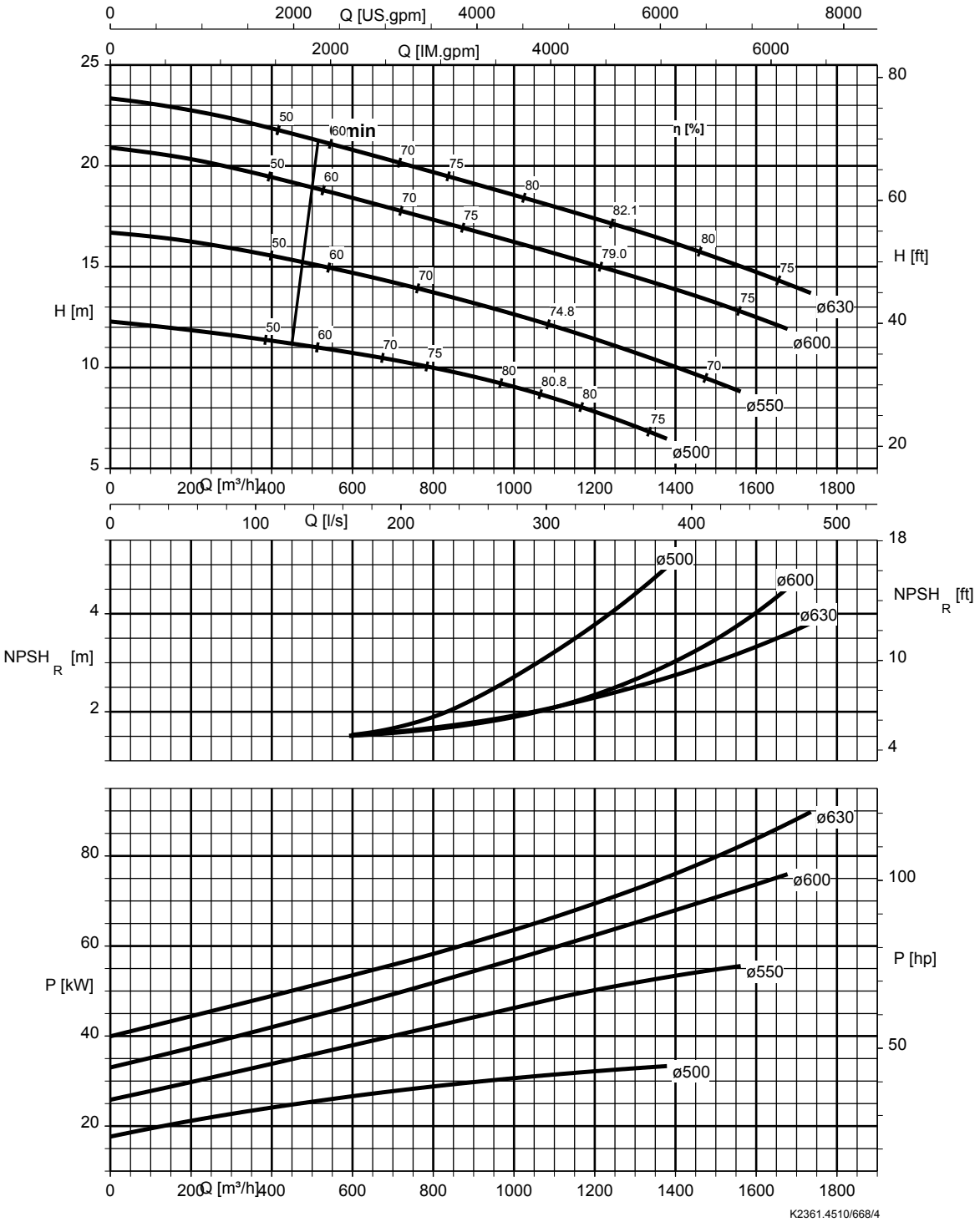
KWP K 250-250-630, n = 580 t/min



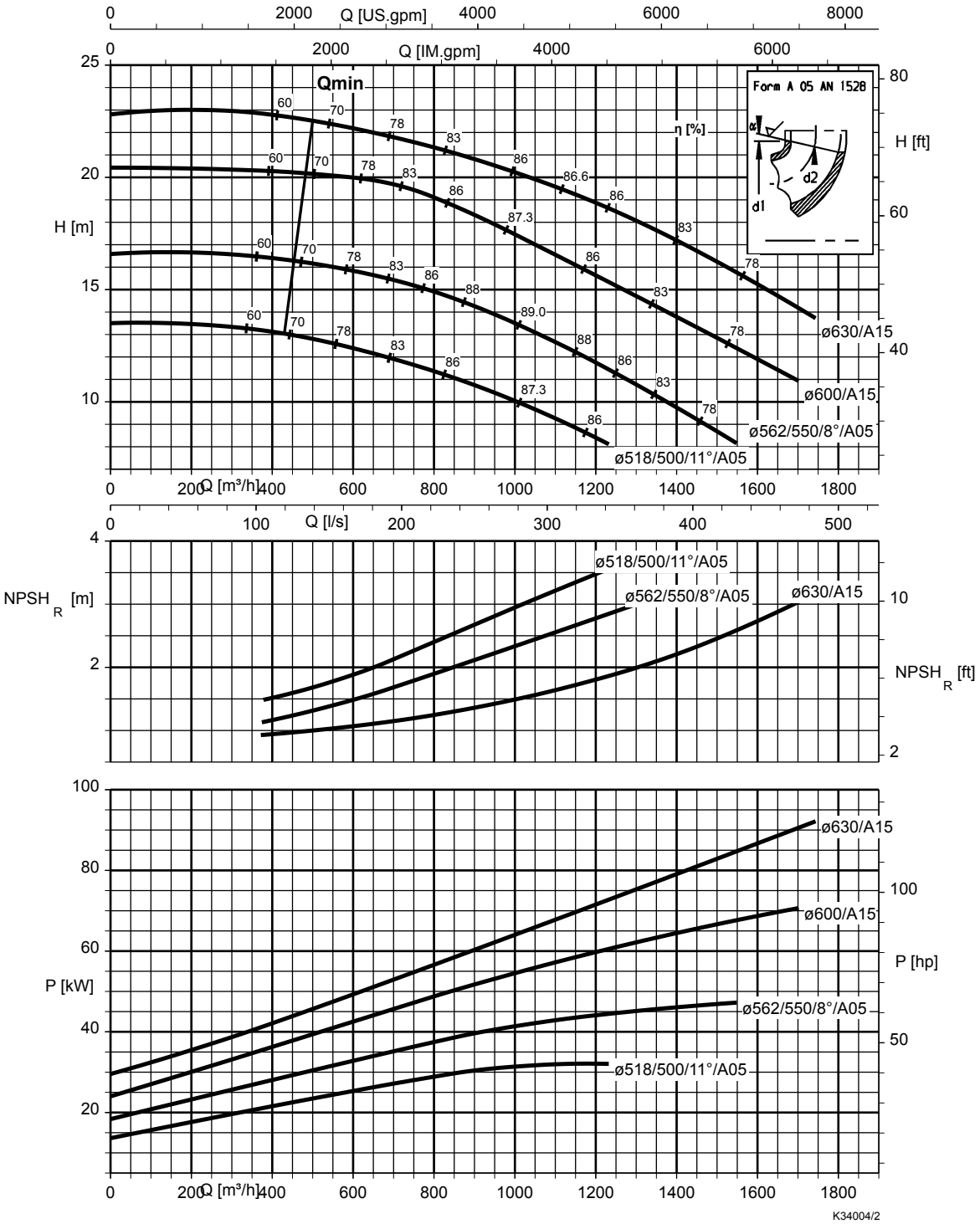
KWP K 250-250-634, n = 580 t/min



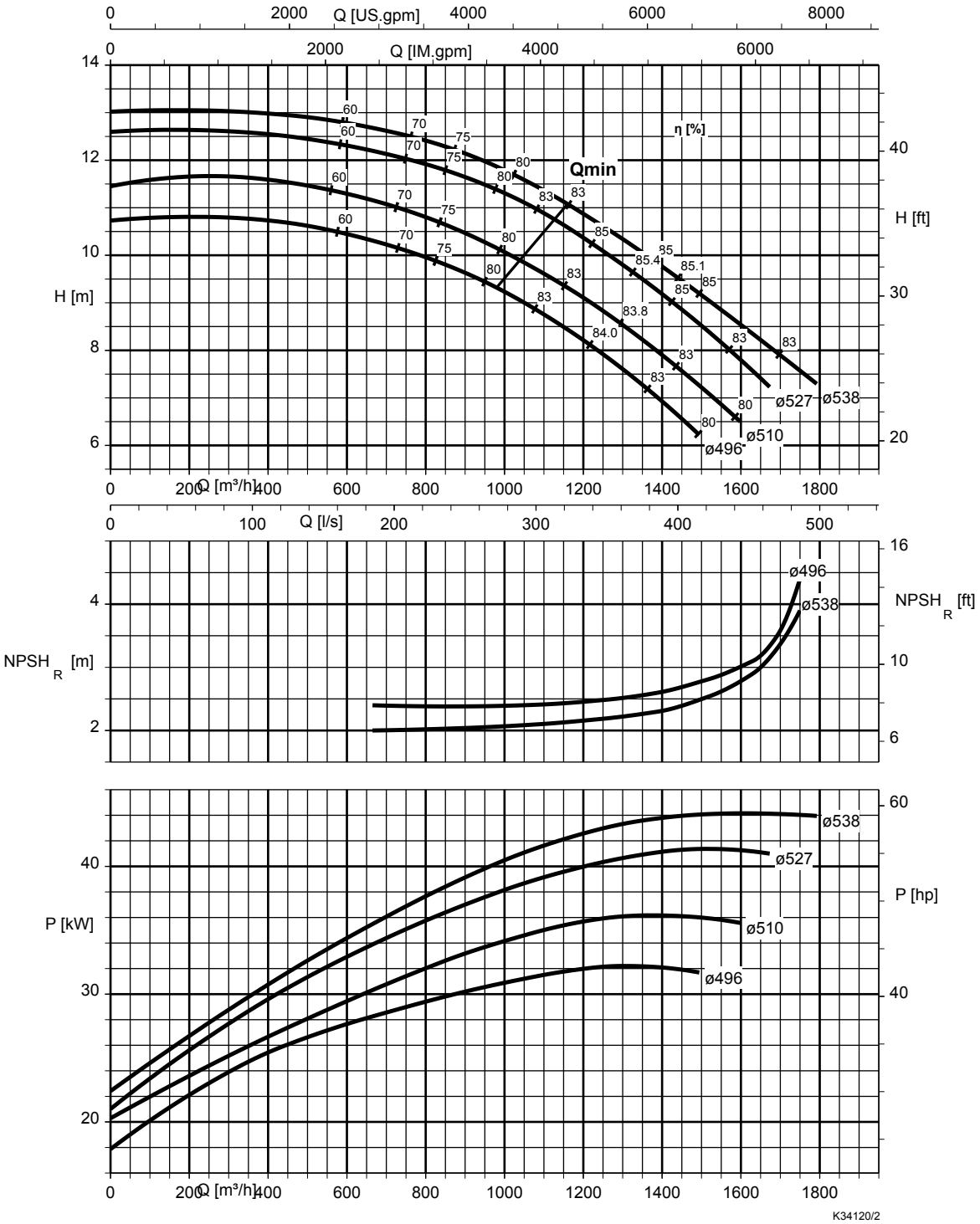
KWP K 350-350-630, n = 580 t/min



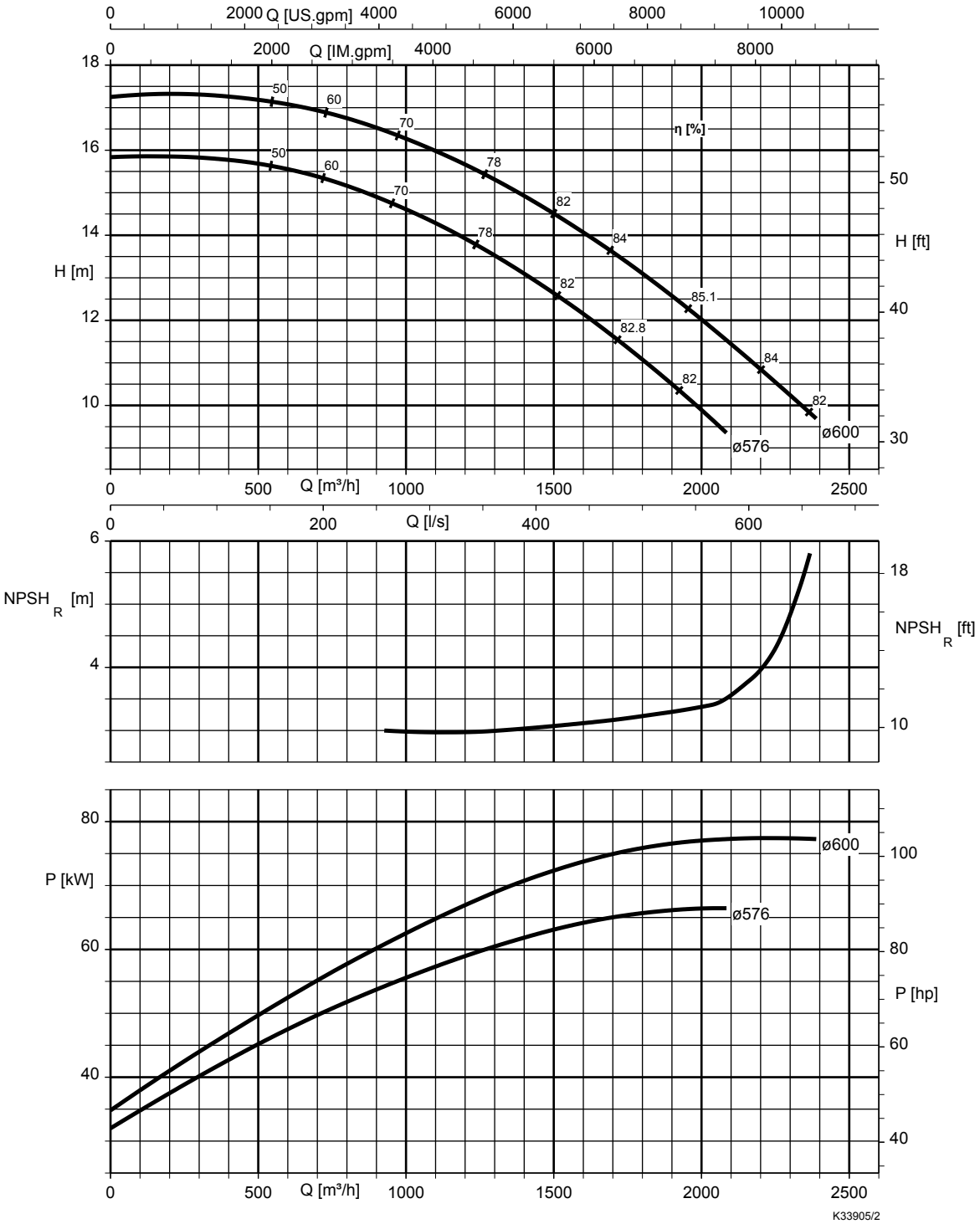
KWP K 350-350-633, n = 580 t/min



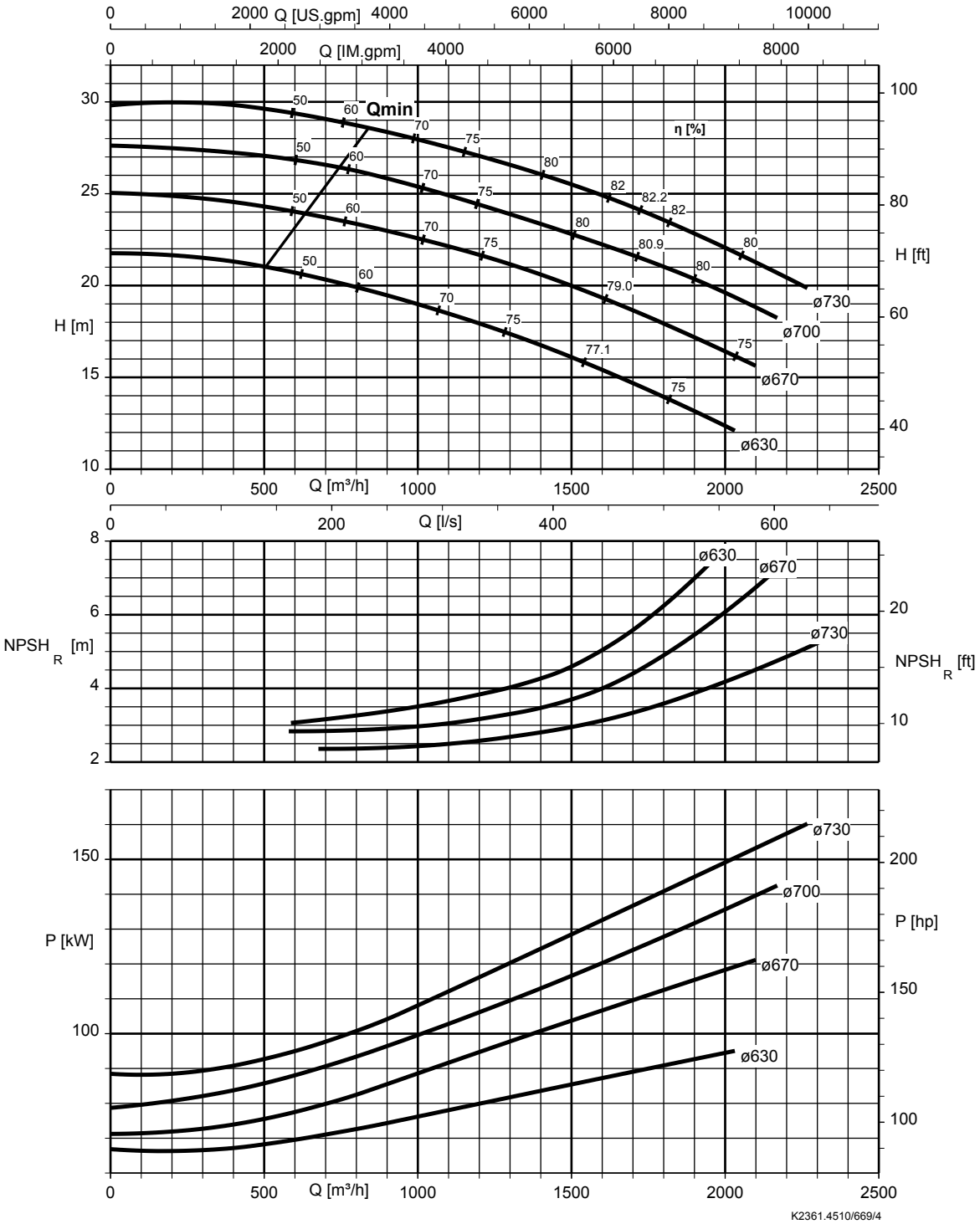
KWP K 400-400-533, n = 580 t/min



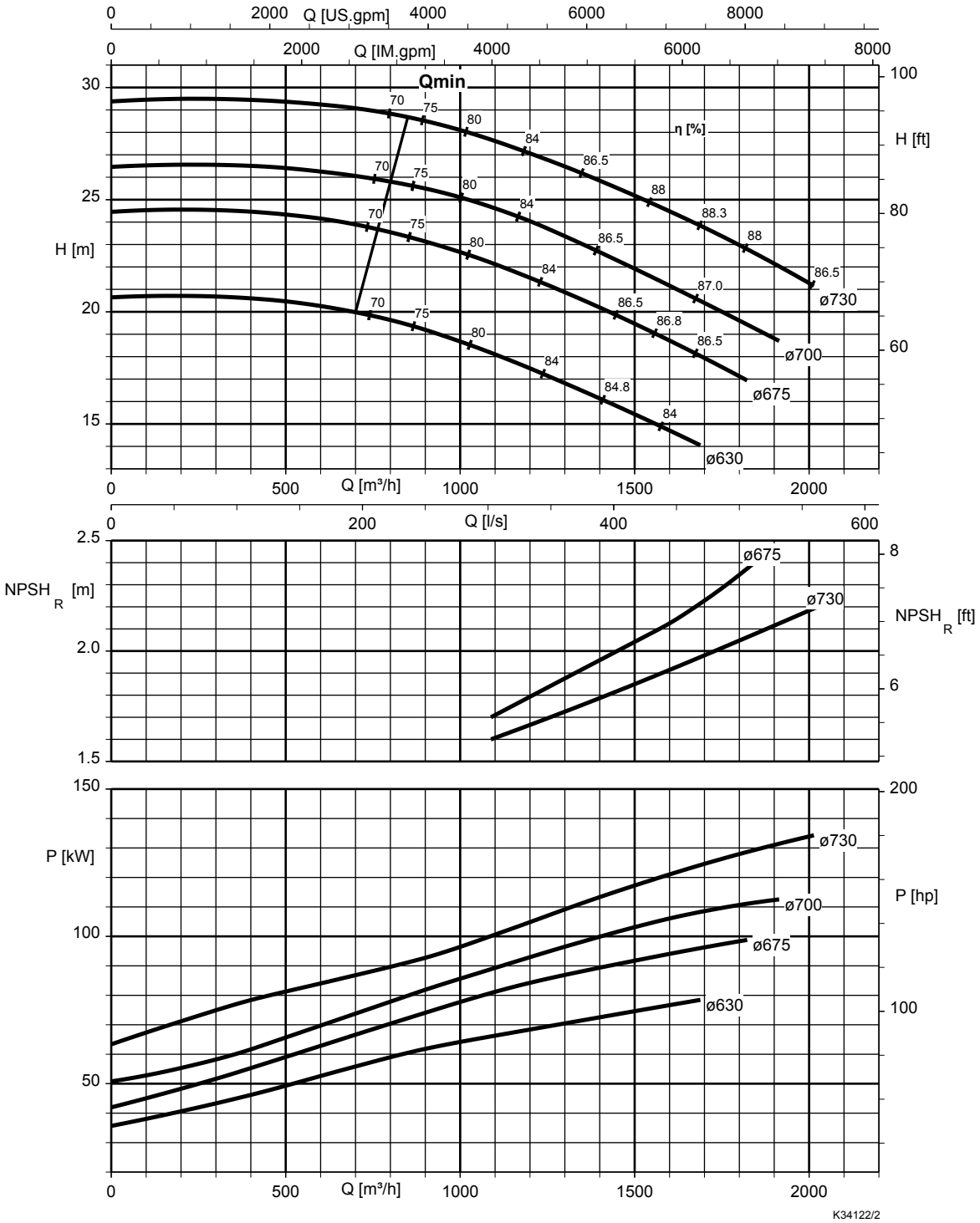
KWP K 400-400-583, n = 580 t/min



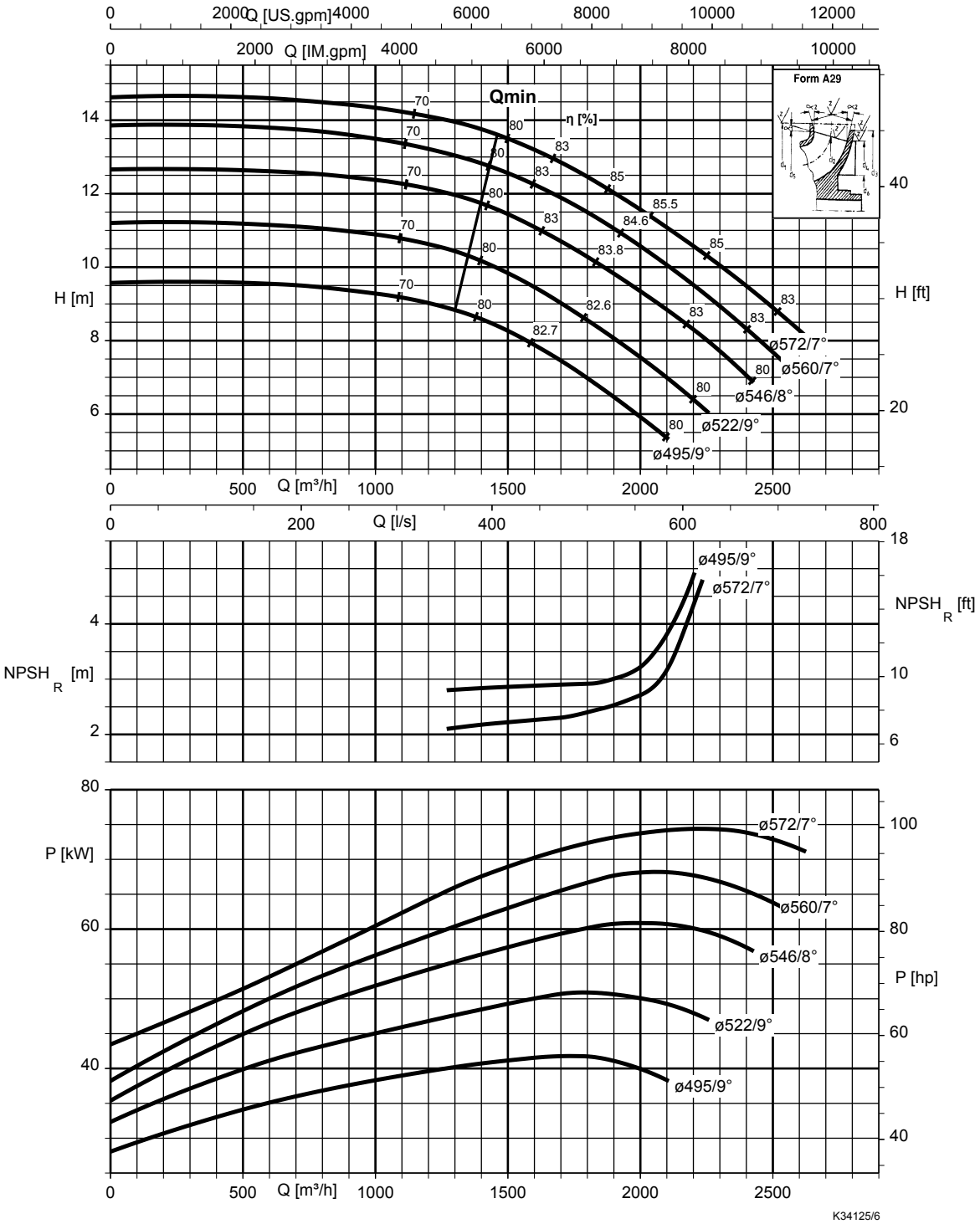
KWP K 500-400-710, n = 580 t/min



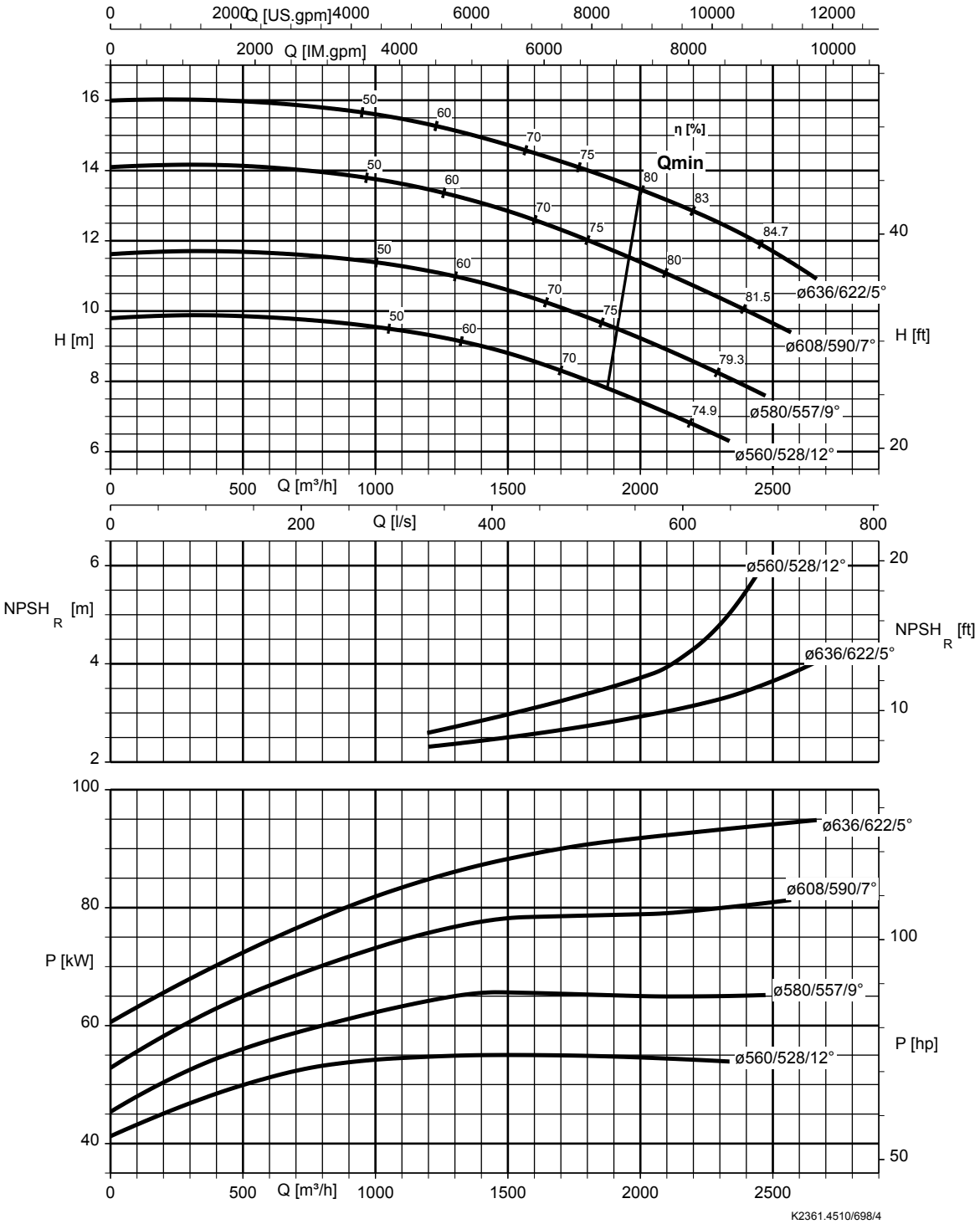
KWP K 500-400-713, n = 580 t/min



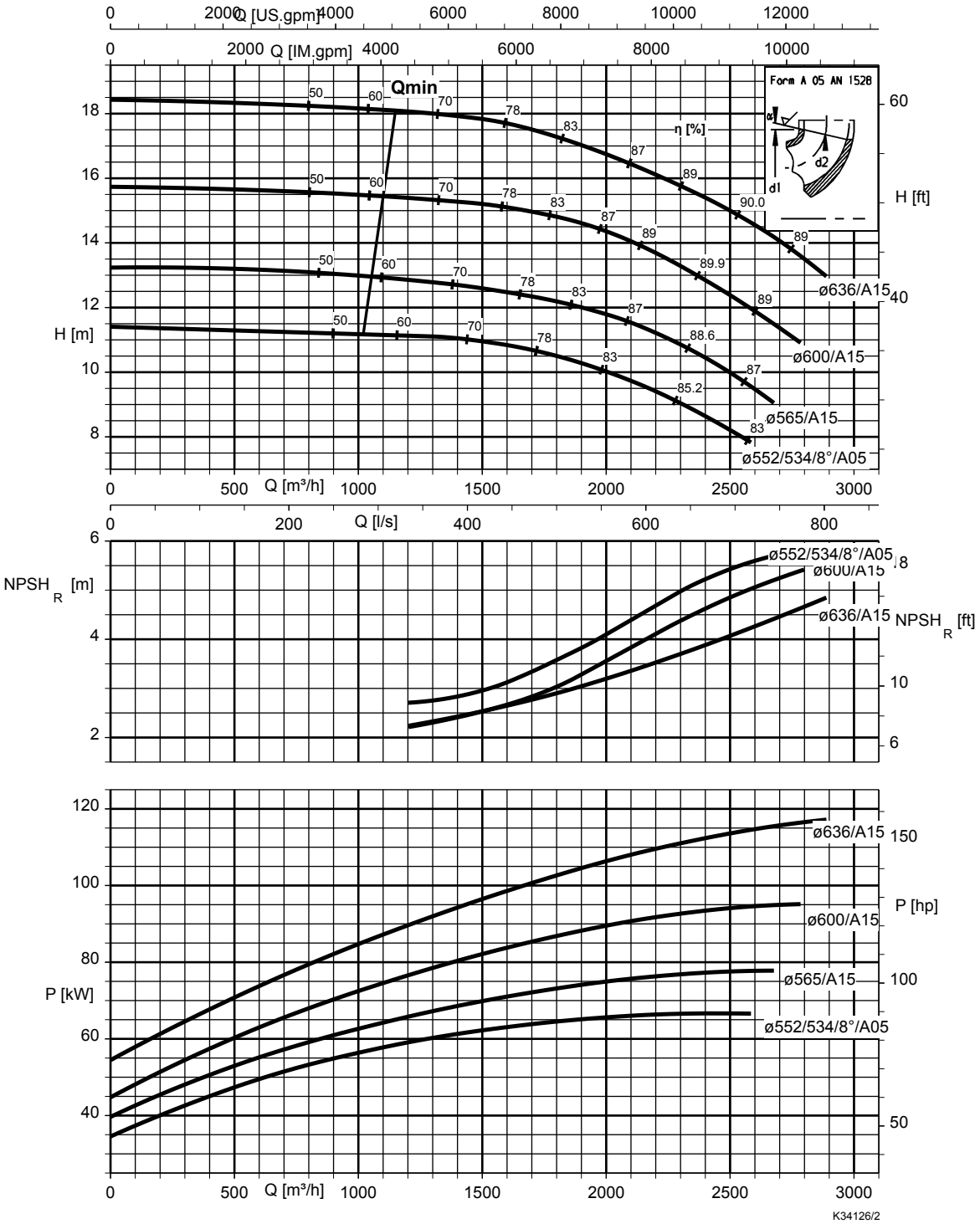
KWP K 500-500-544, n = 580 t/min



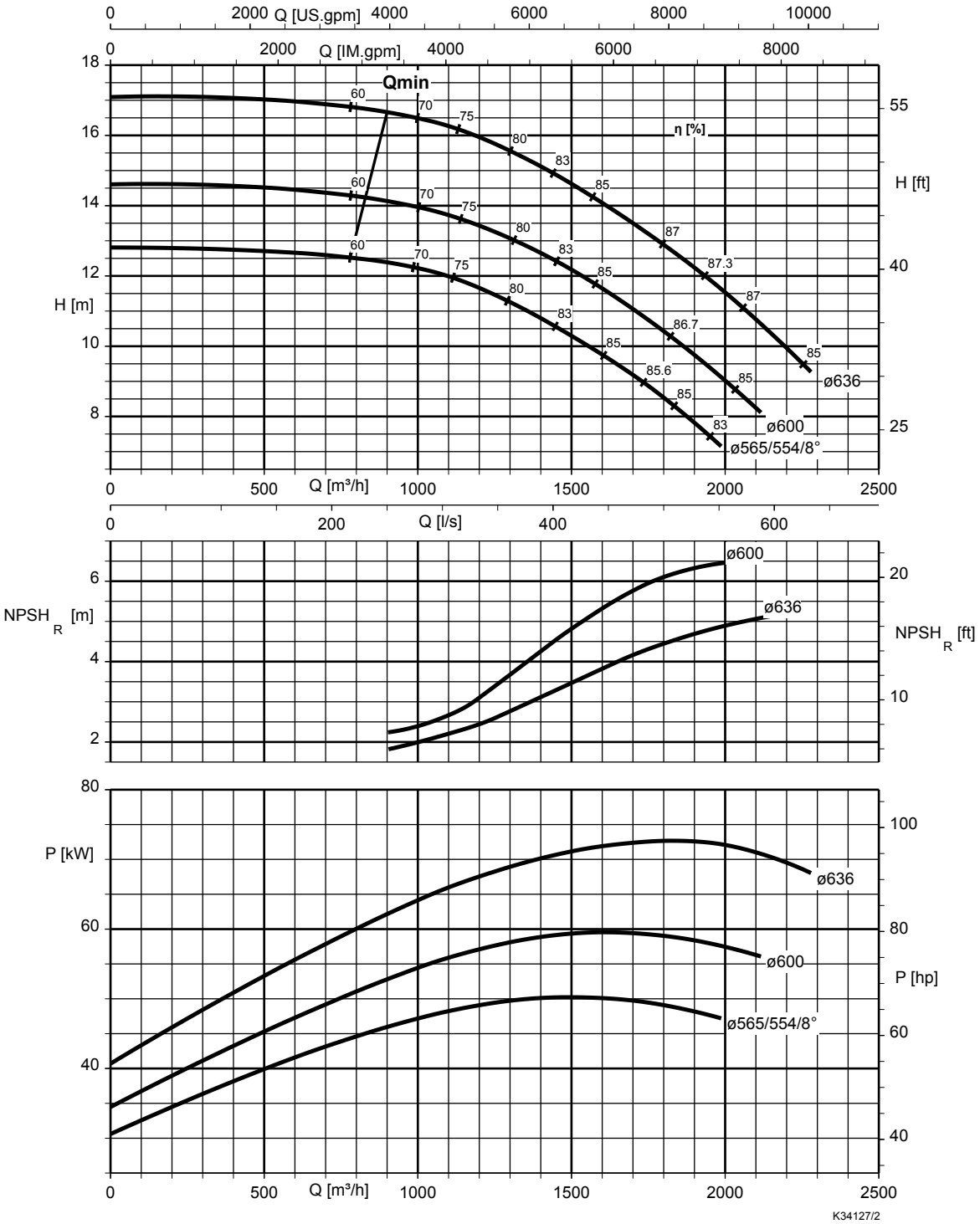
KWP K 500-500-630, n = 580 t/min



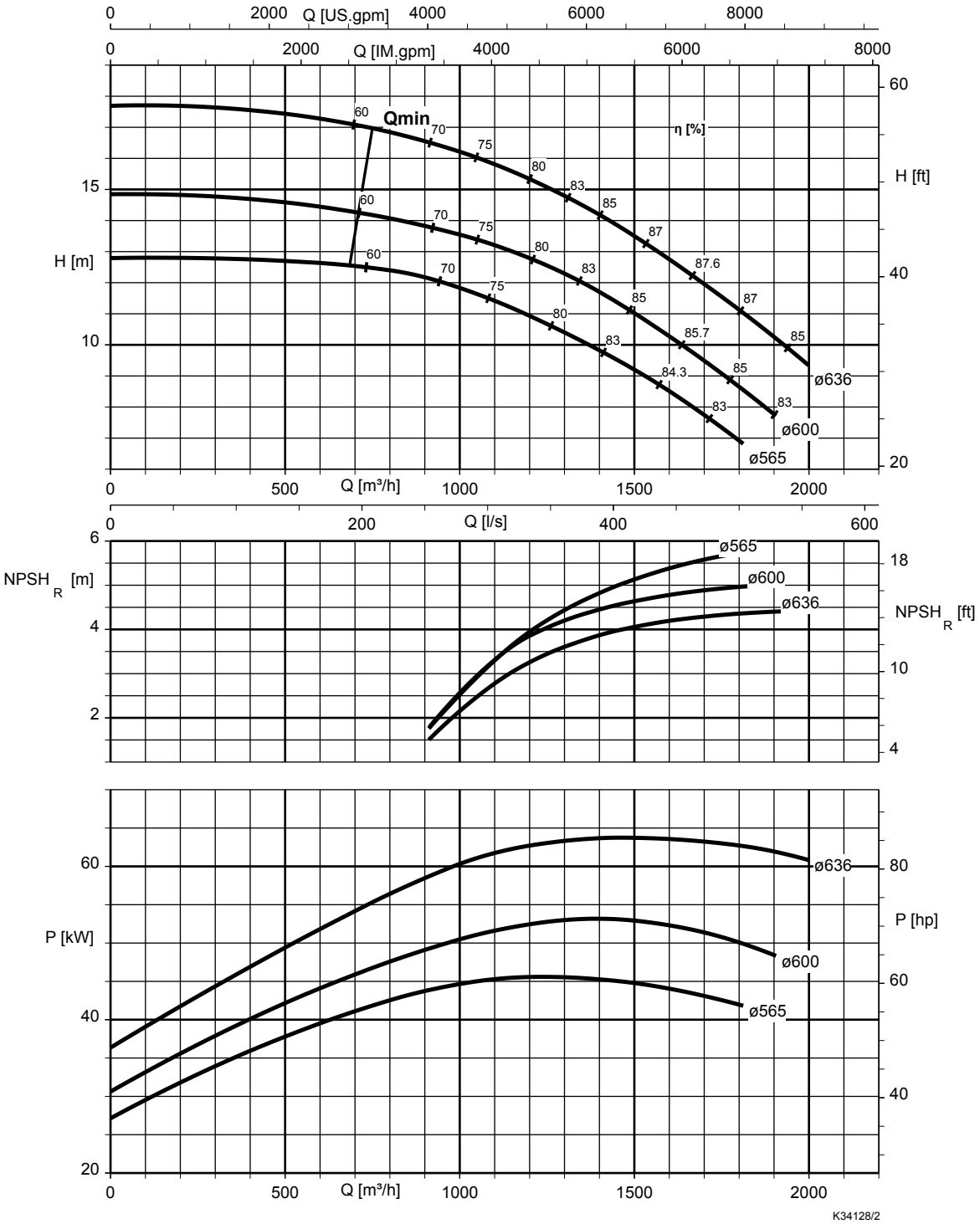
KWP K 500-500-633, n = 580 t/min



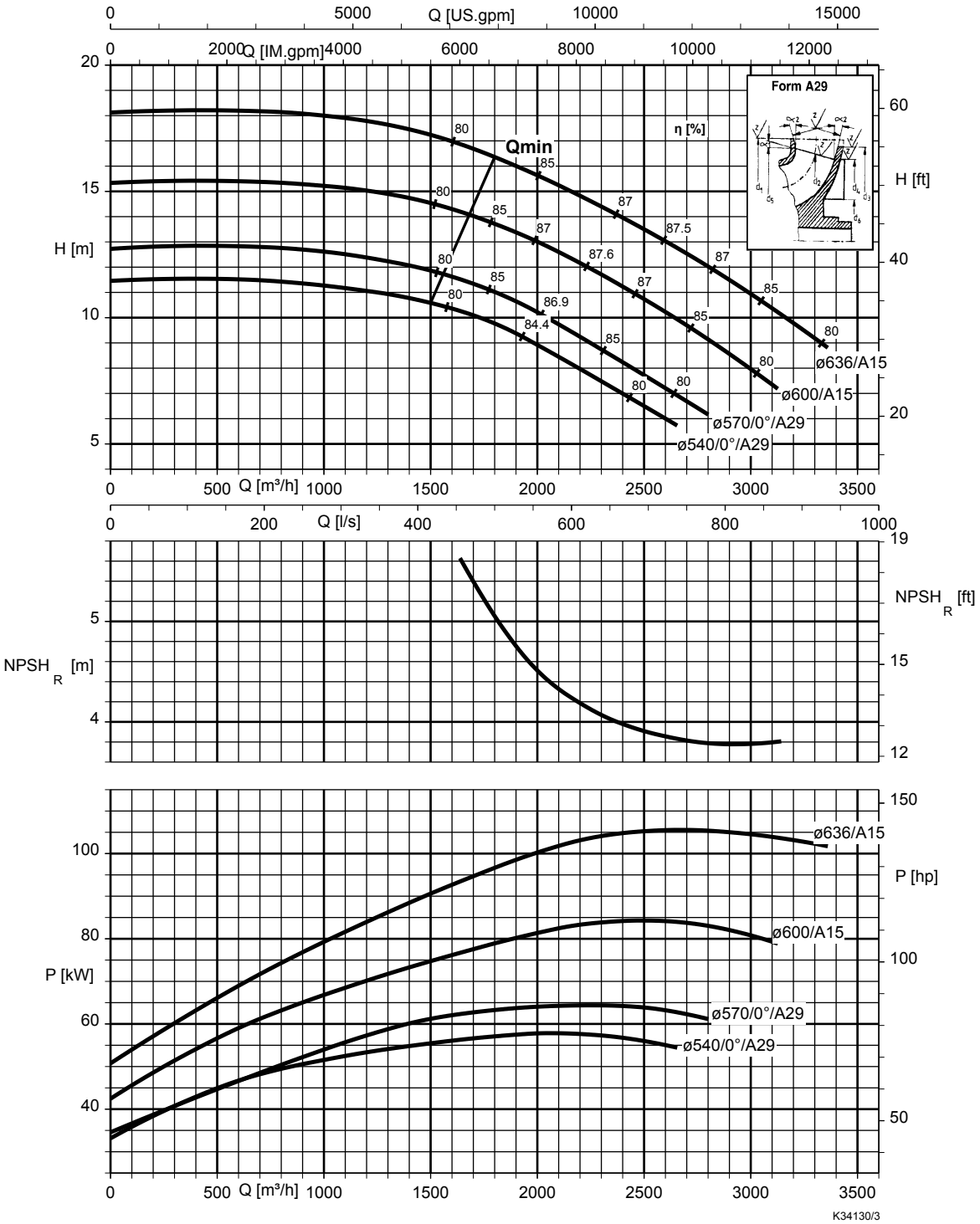
KWP K 500-500-634, n = 580 t/min



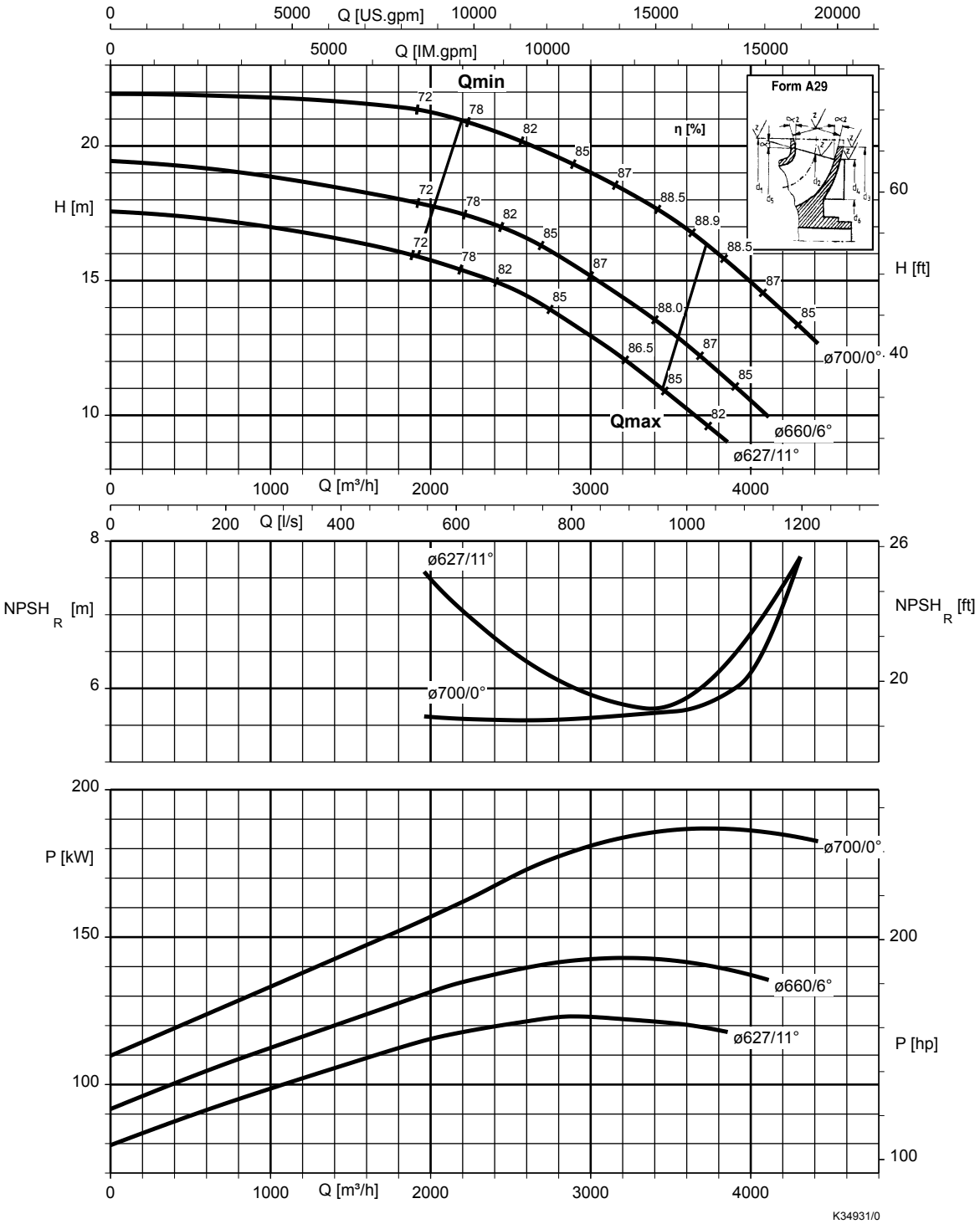
KWP K 500-500-635, n = 580 t/min



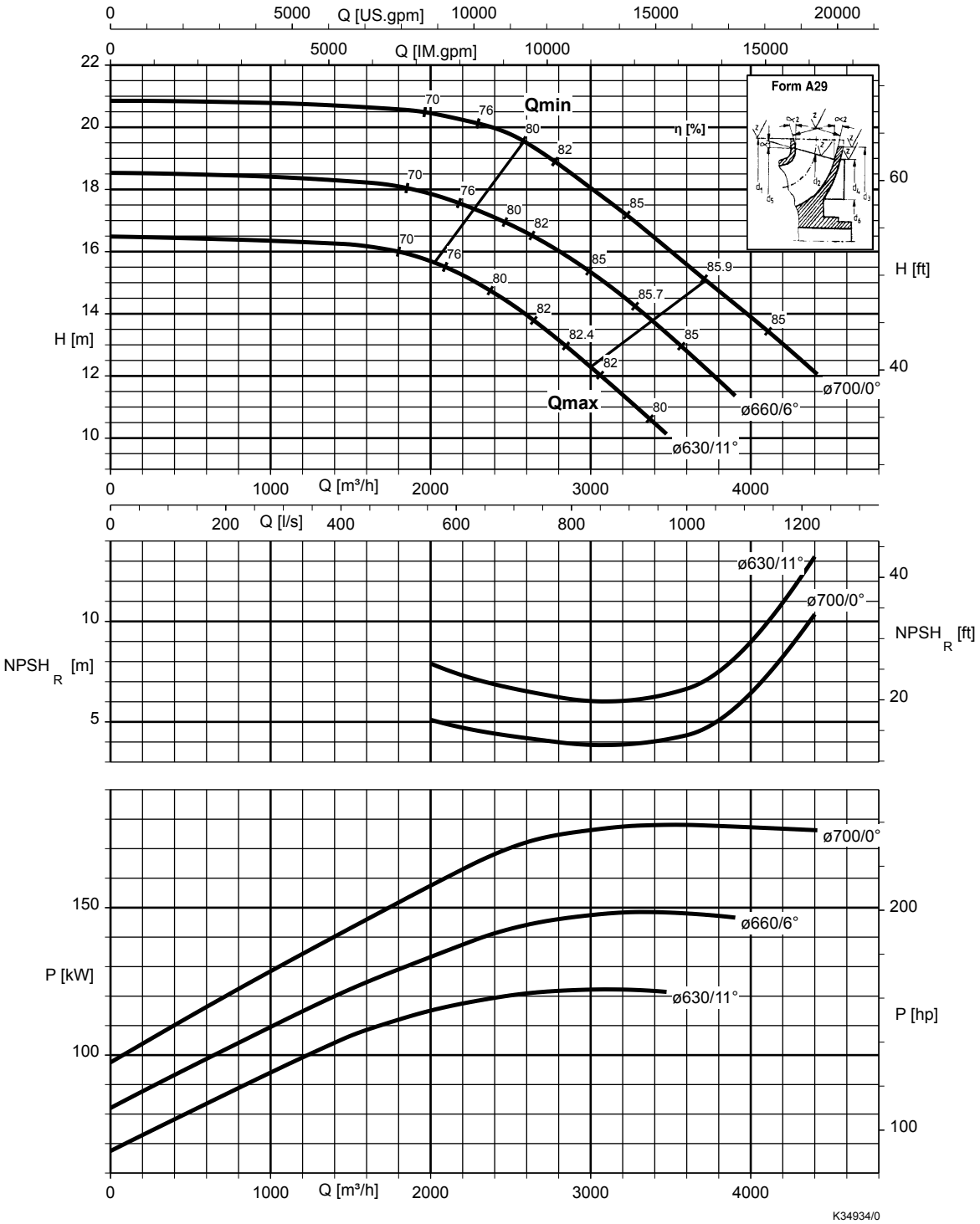
KWP K 500-500-637, n = 580 t/min



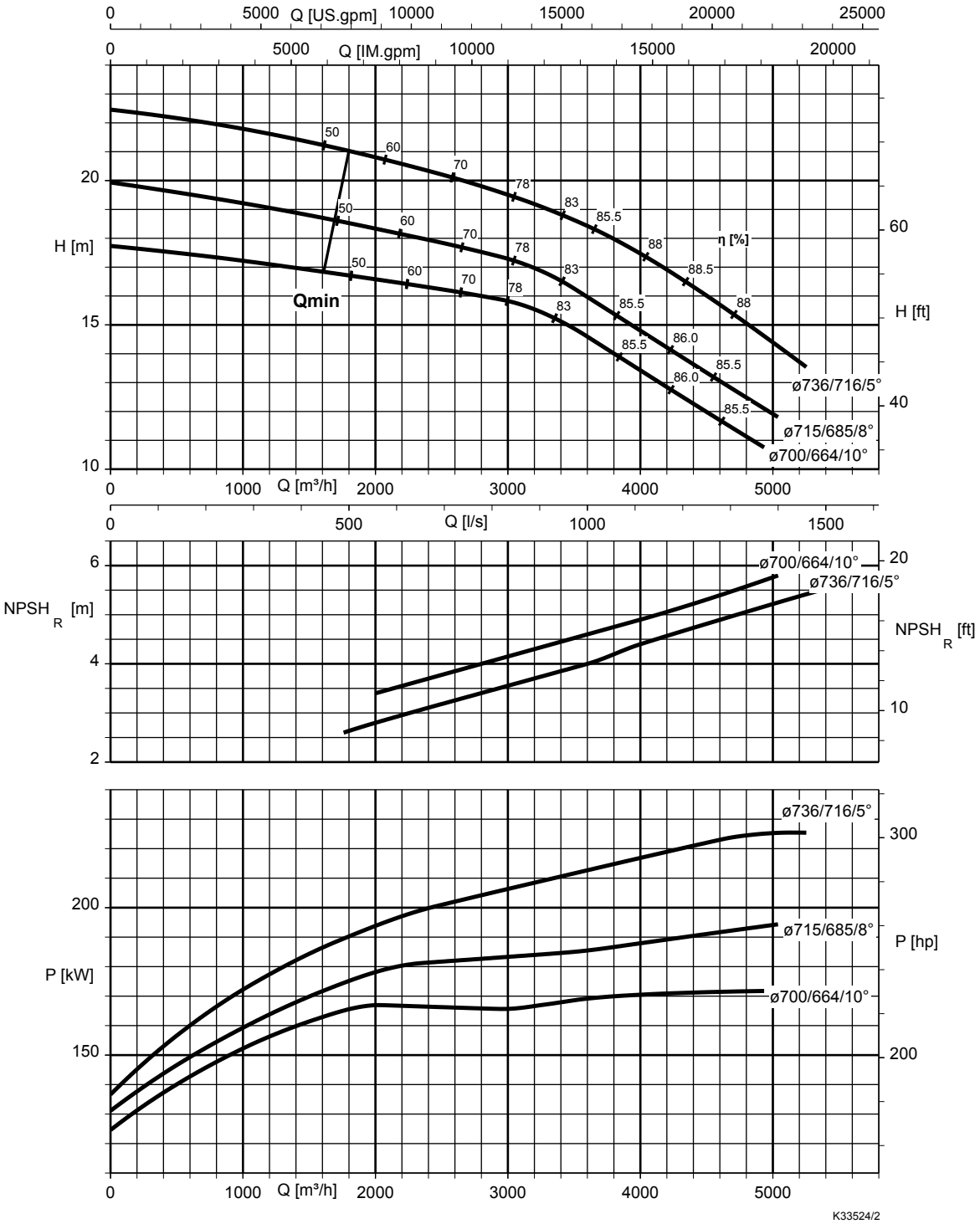
KWP K 600-600-663, n = 580 t/min



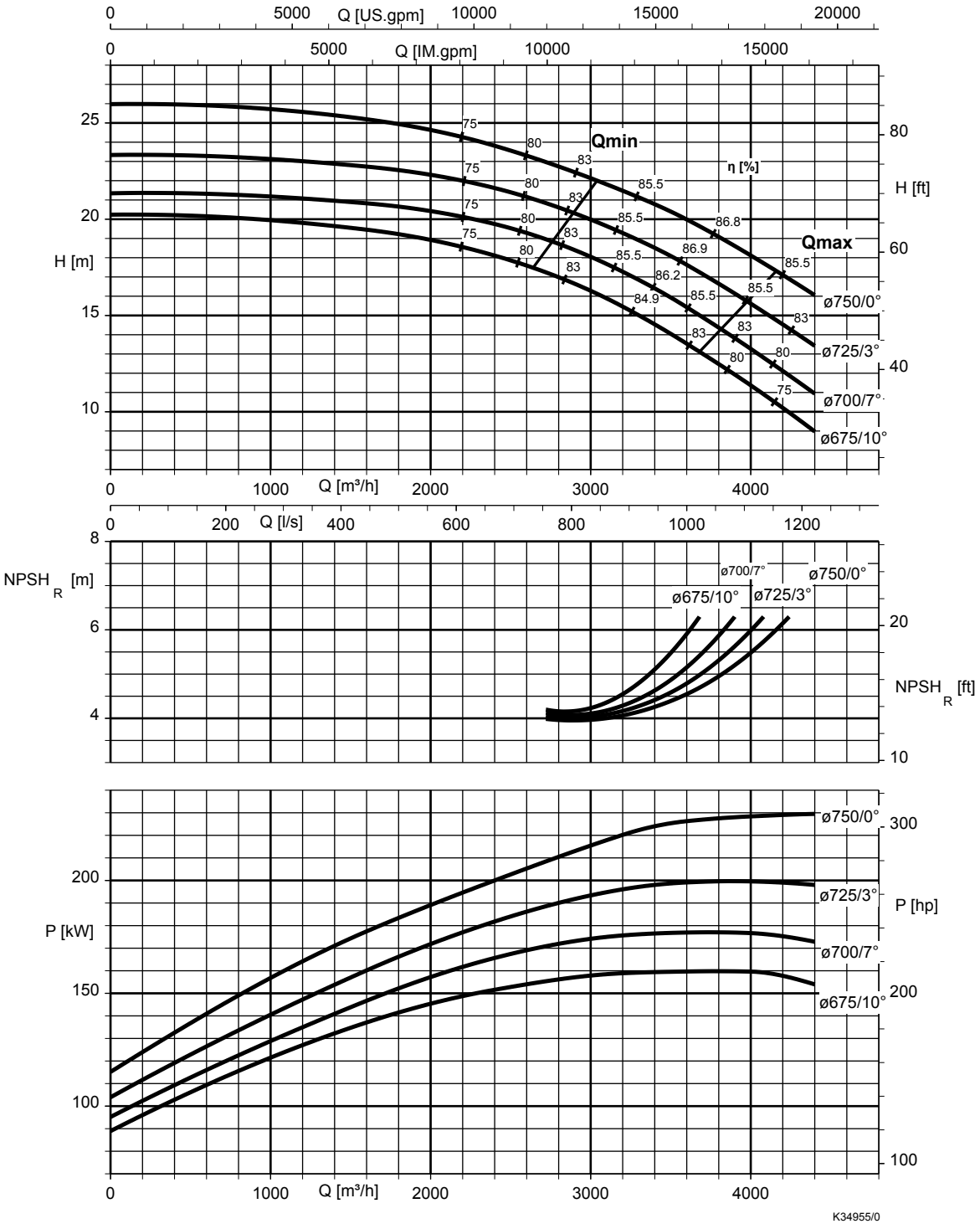
KWP K 600-600-669, n = 580 t/min



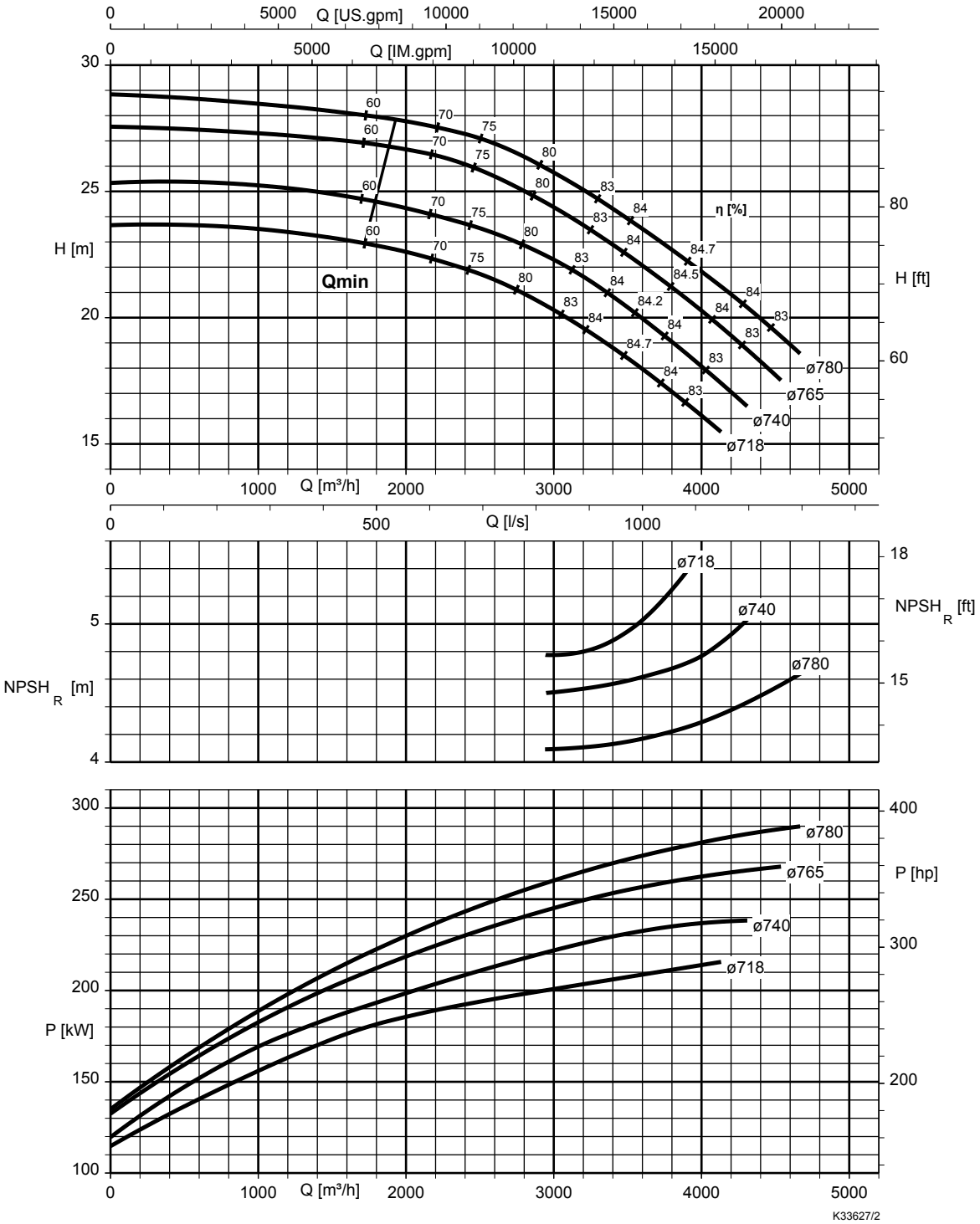
KWP K 600-600-710, n = 580 t/min



KWP K 600-600-753, n = 580 t/min



KWP K 600-600-803, n = 580 t/min



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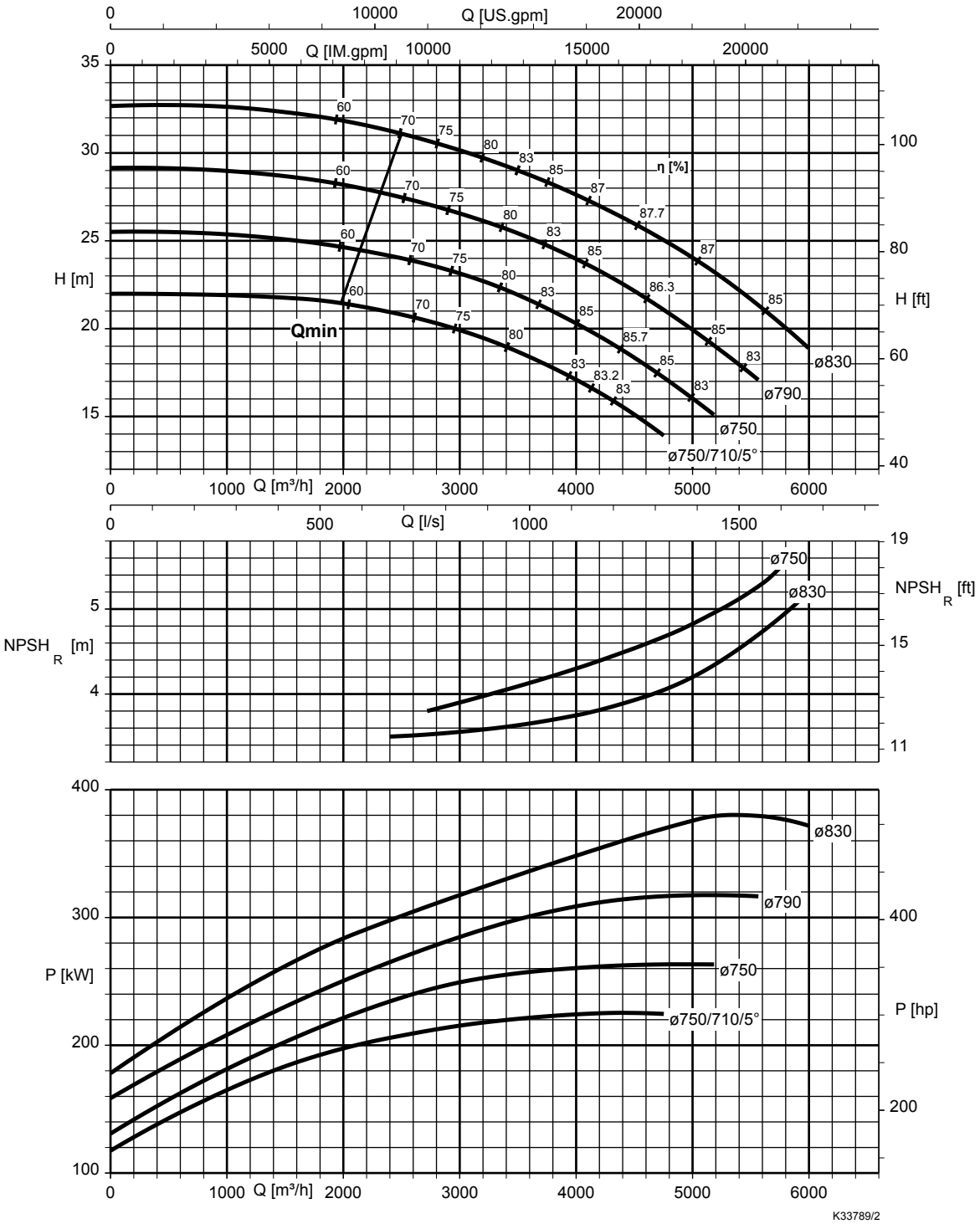

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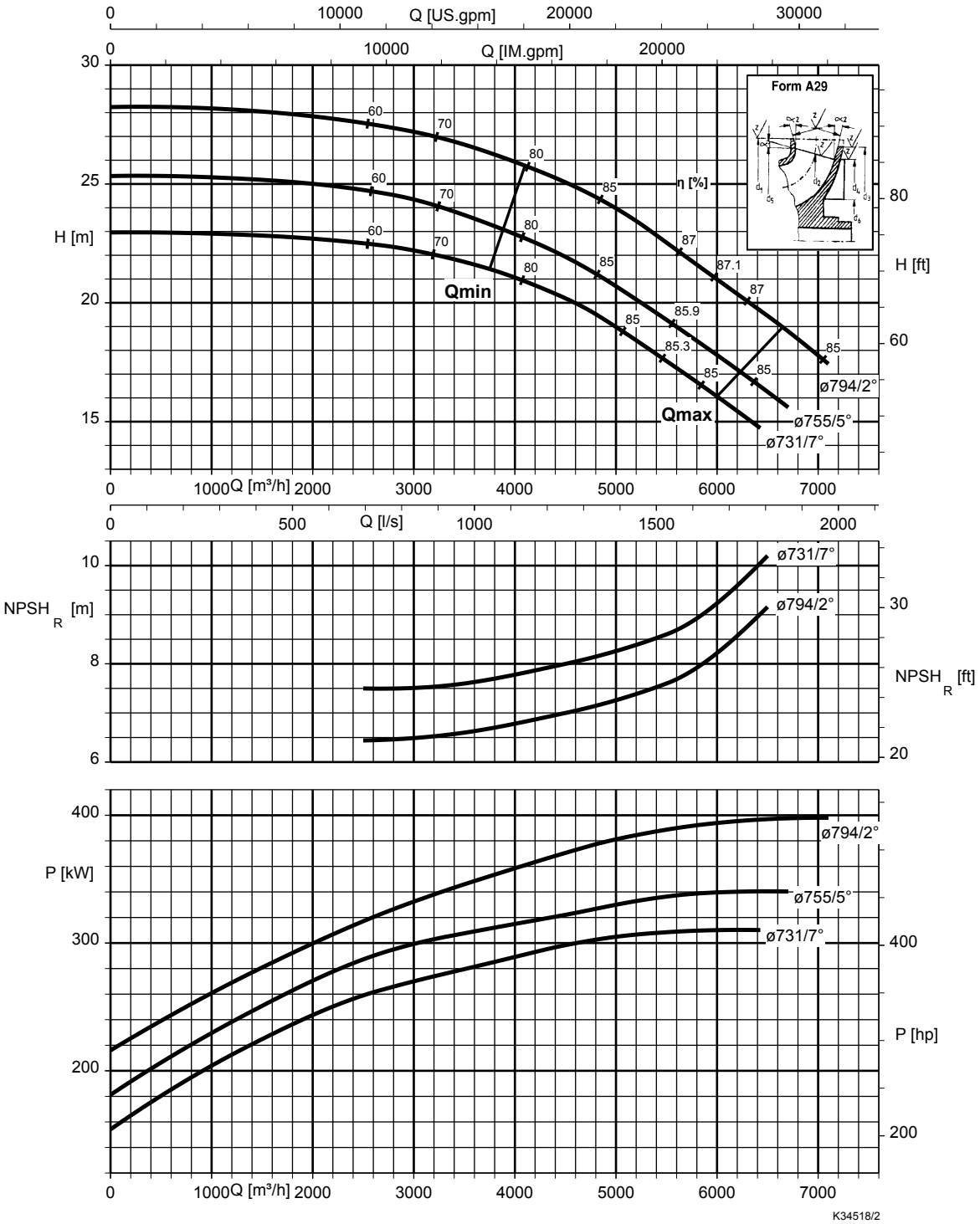

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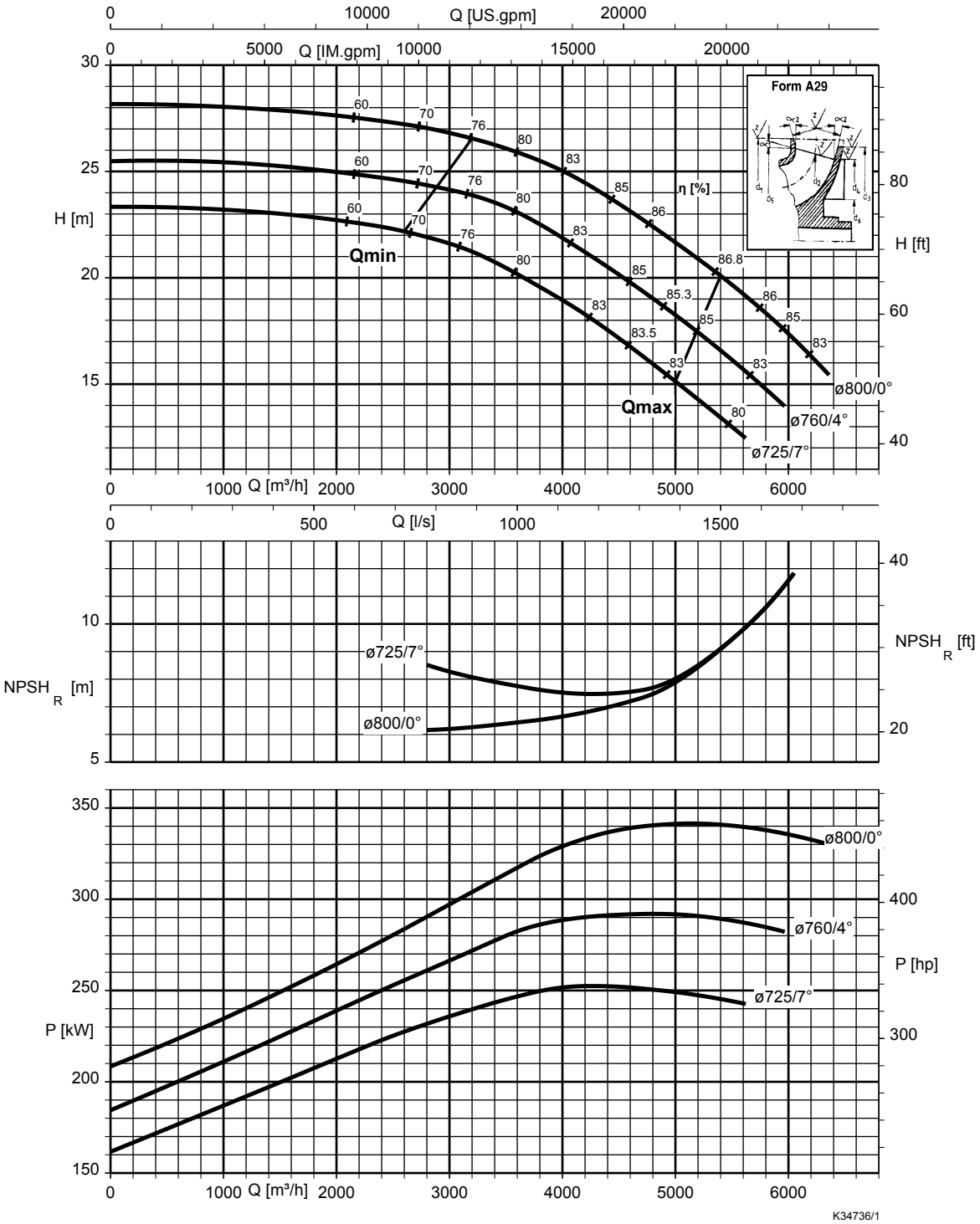

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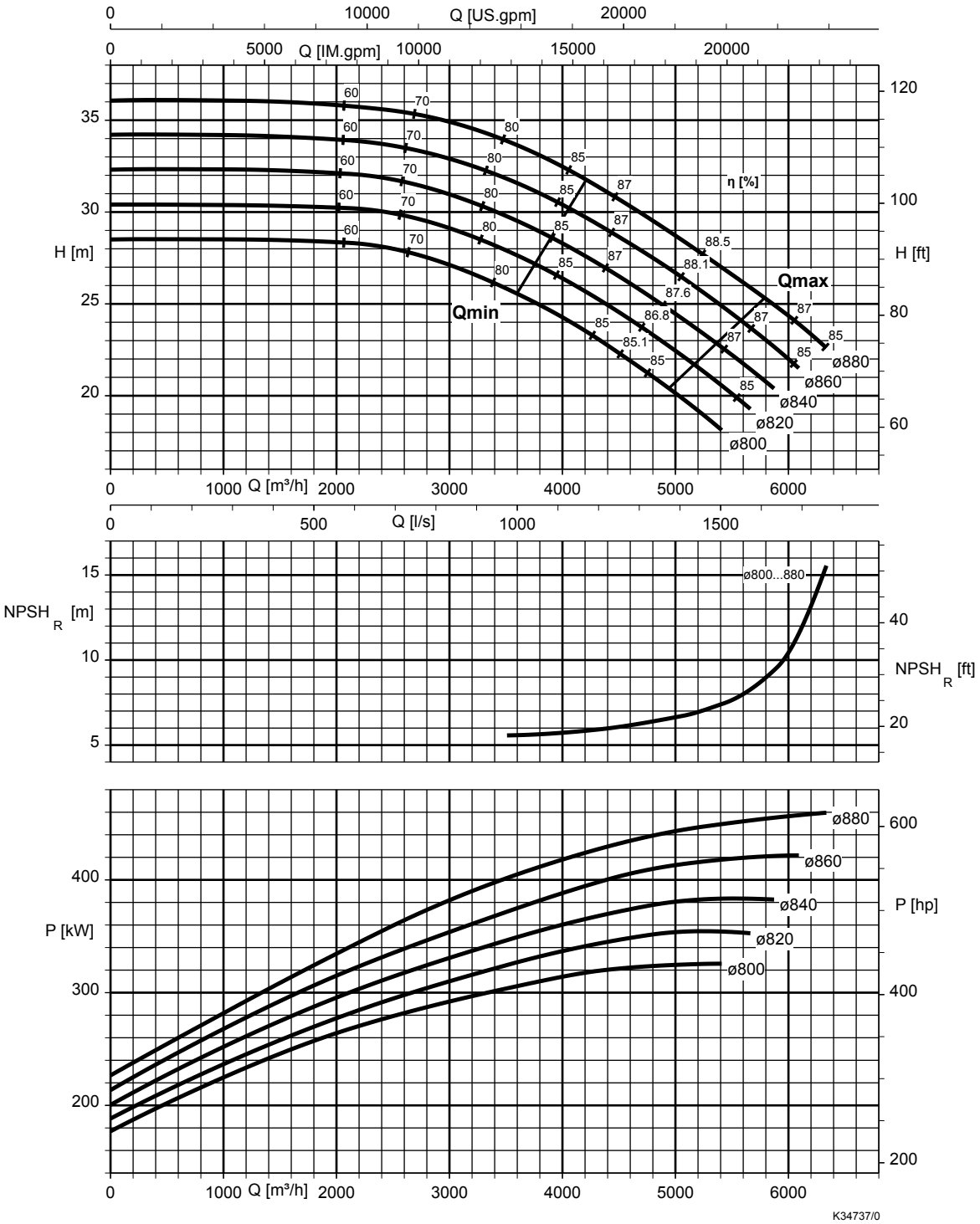

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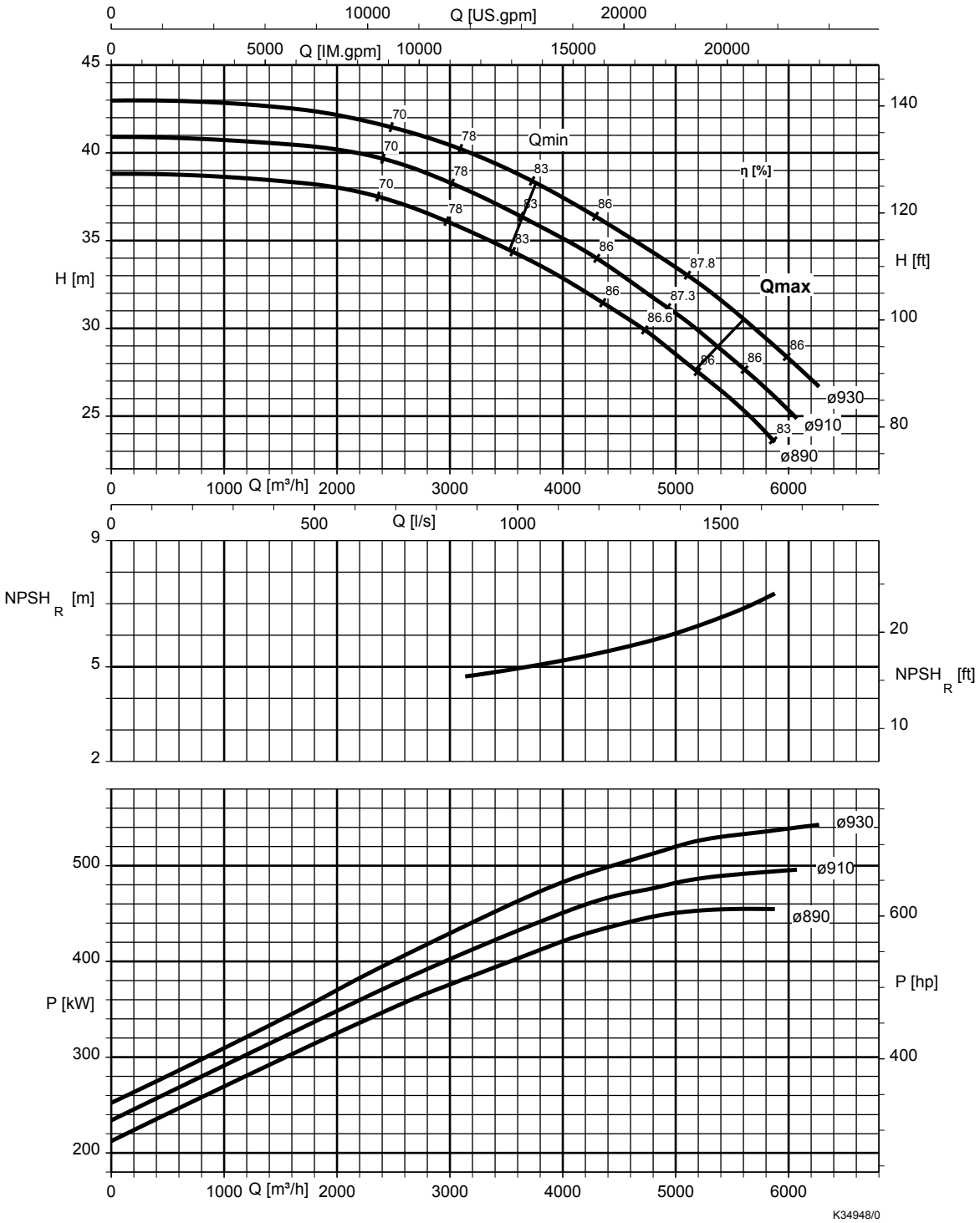

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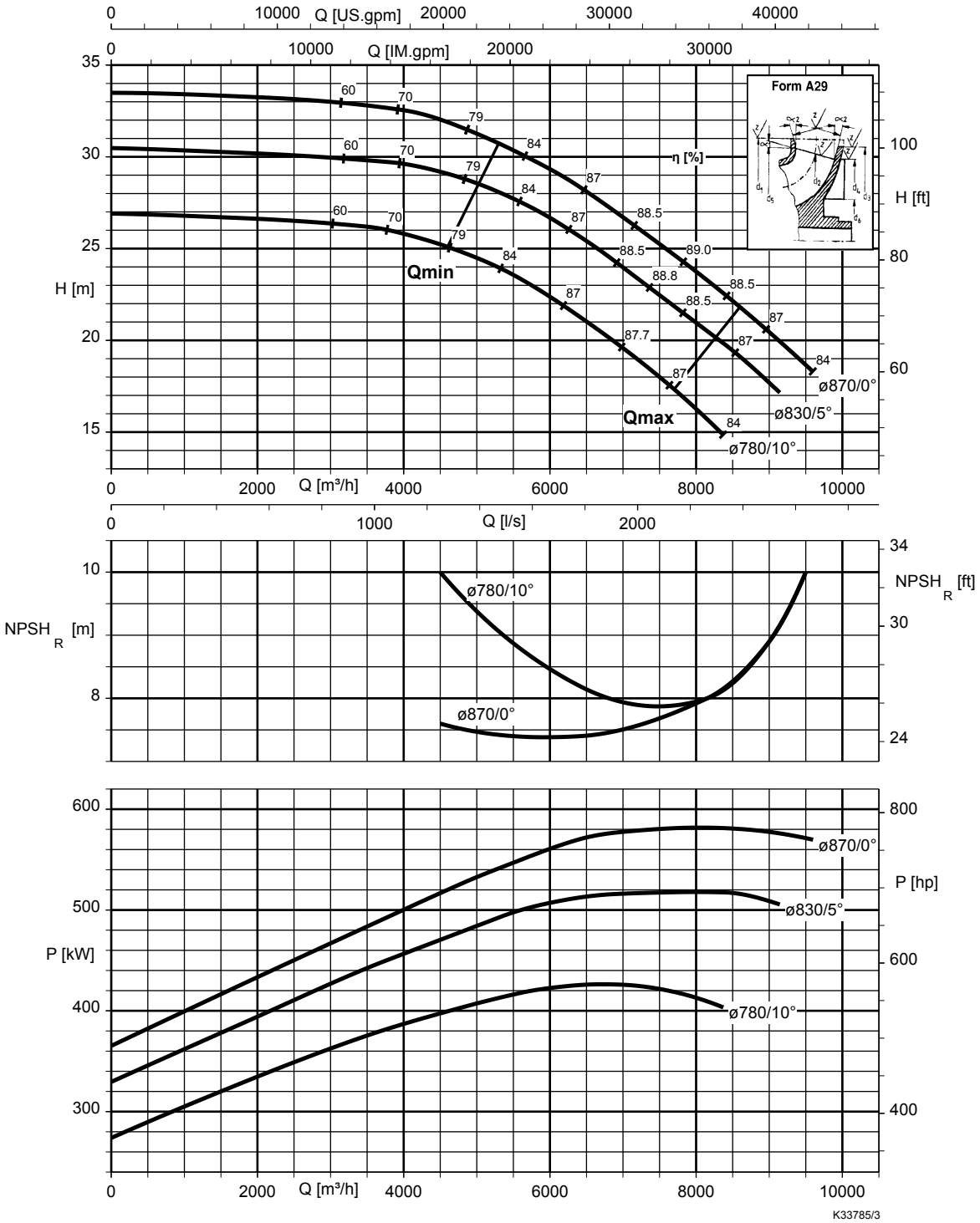

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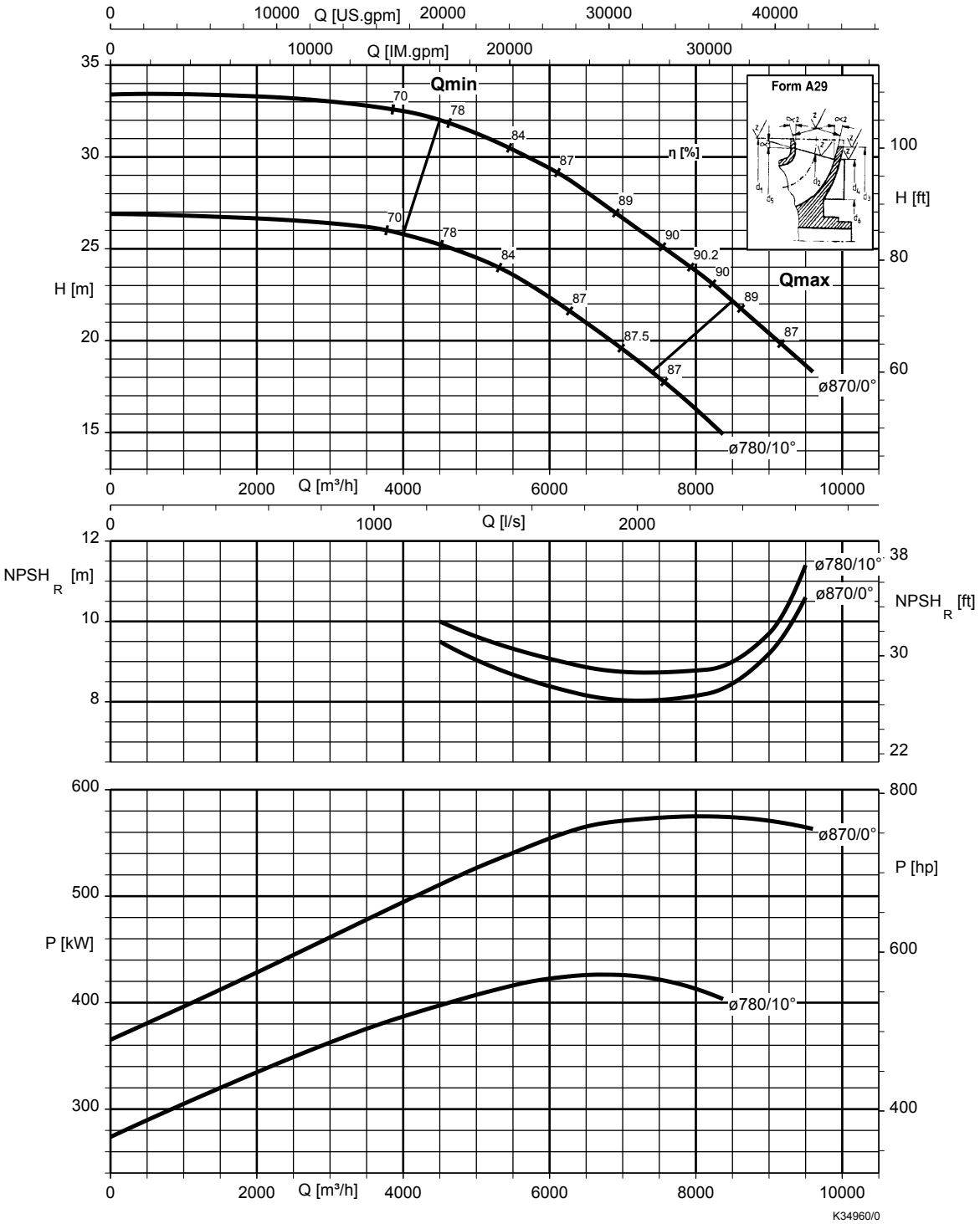

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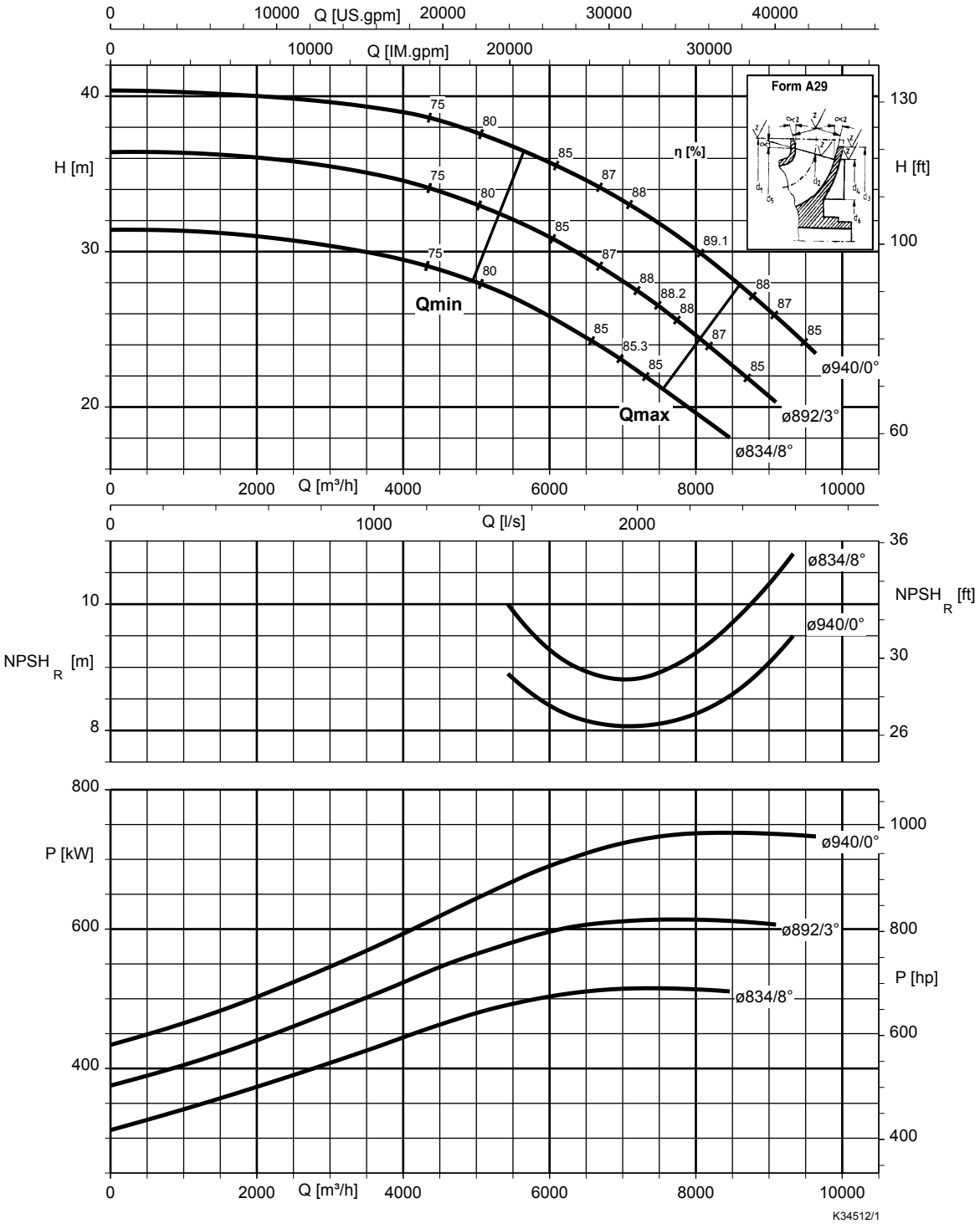

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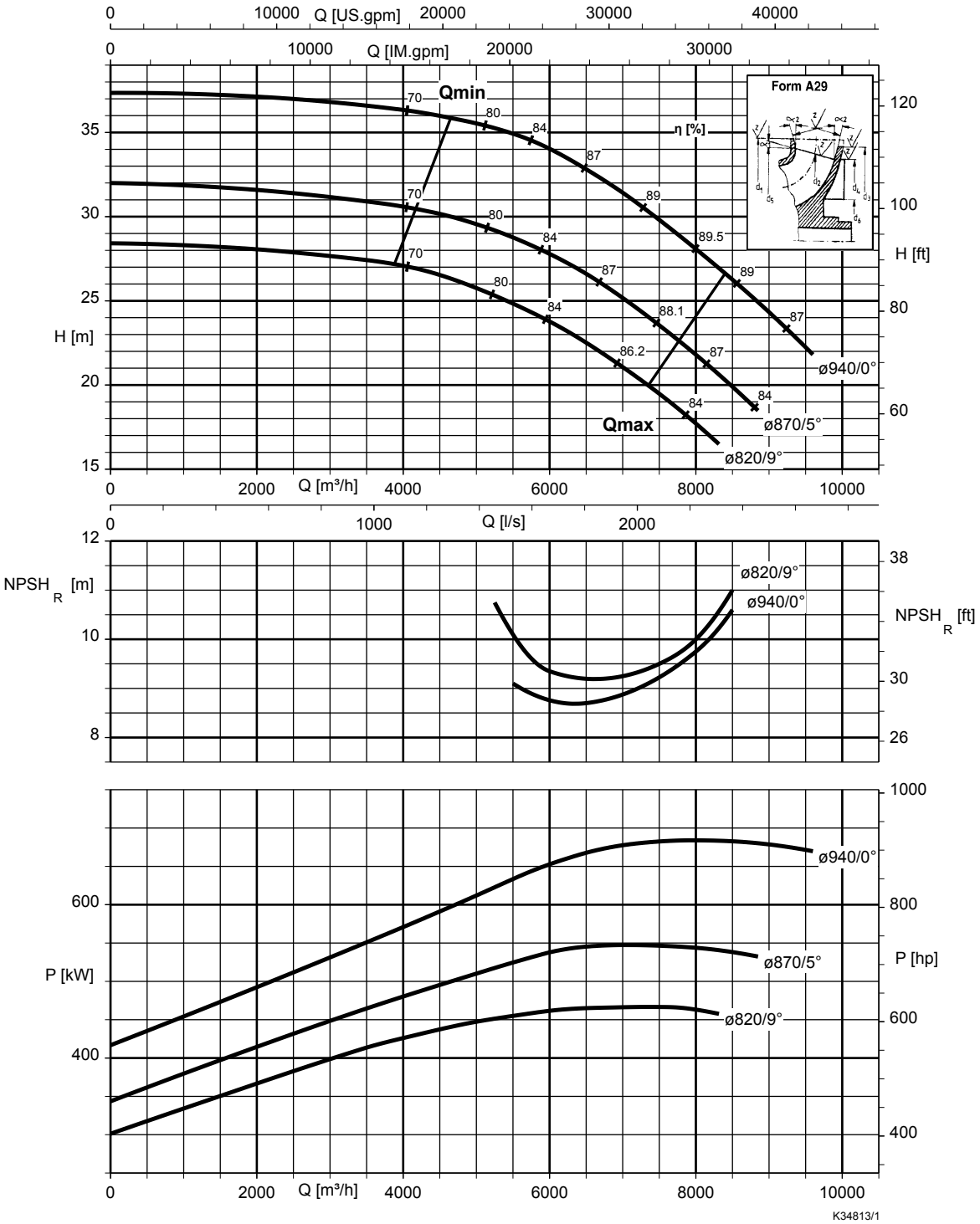

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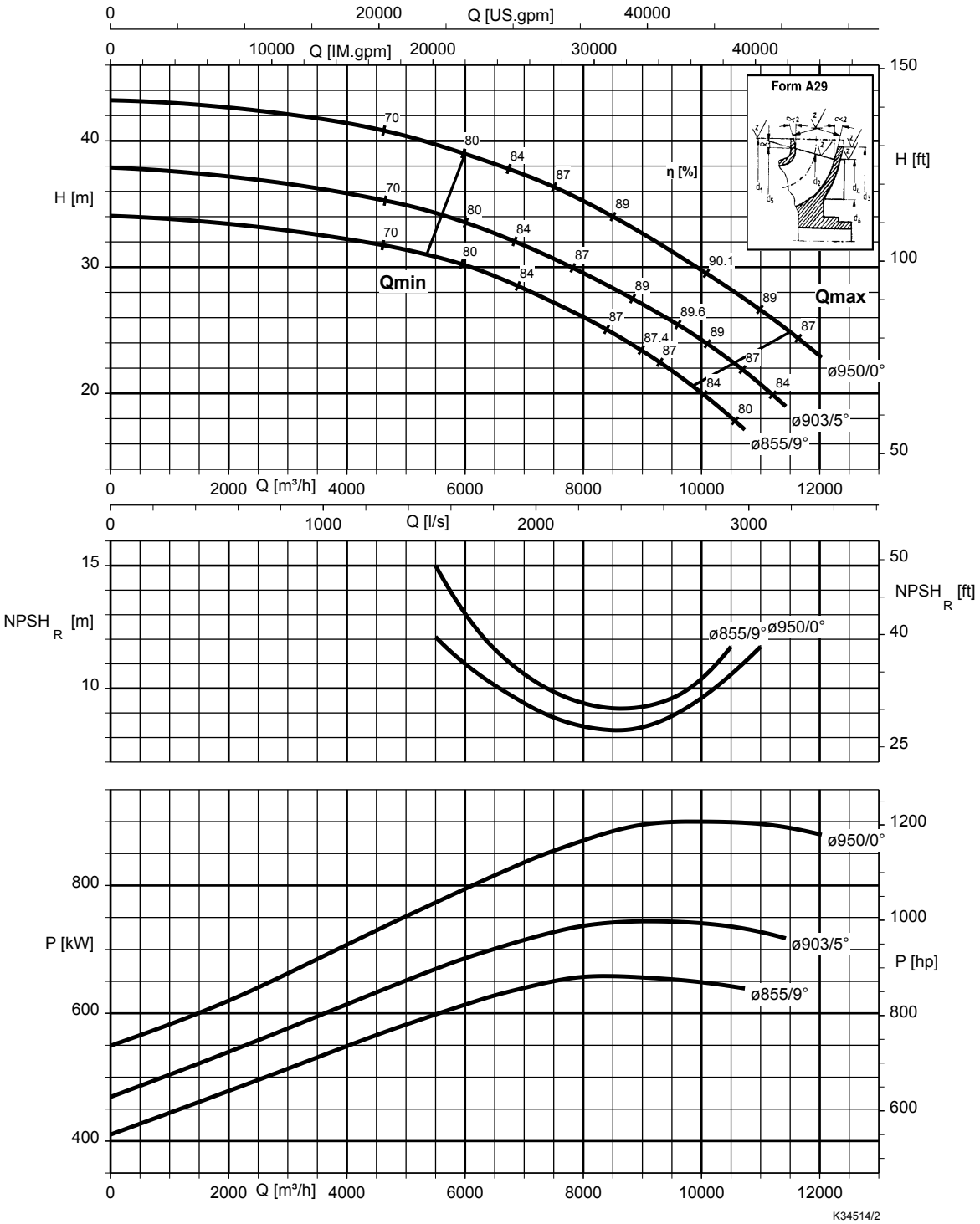

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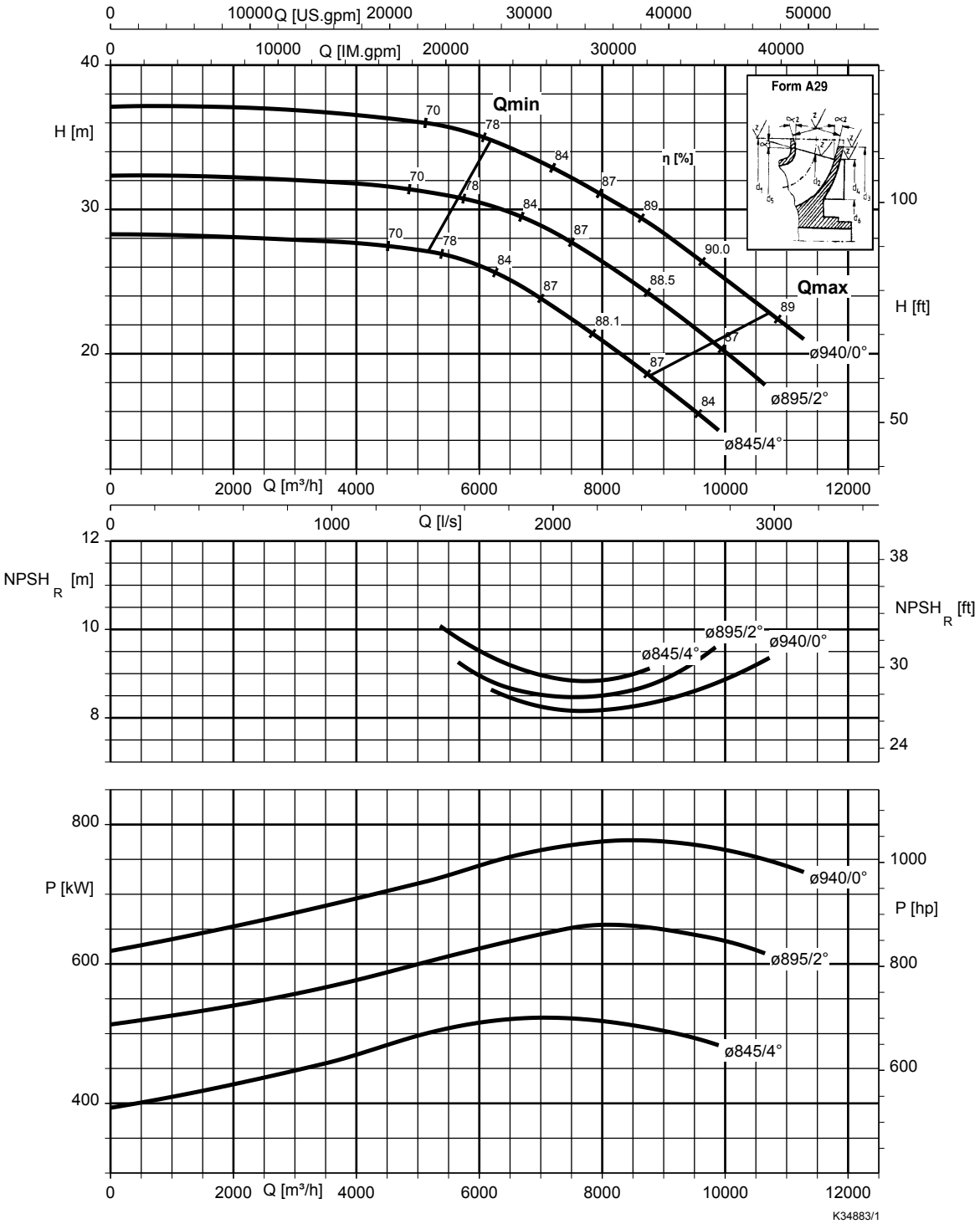

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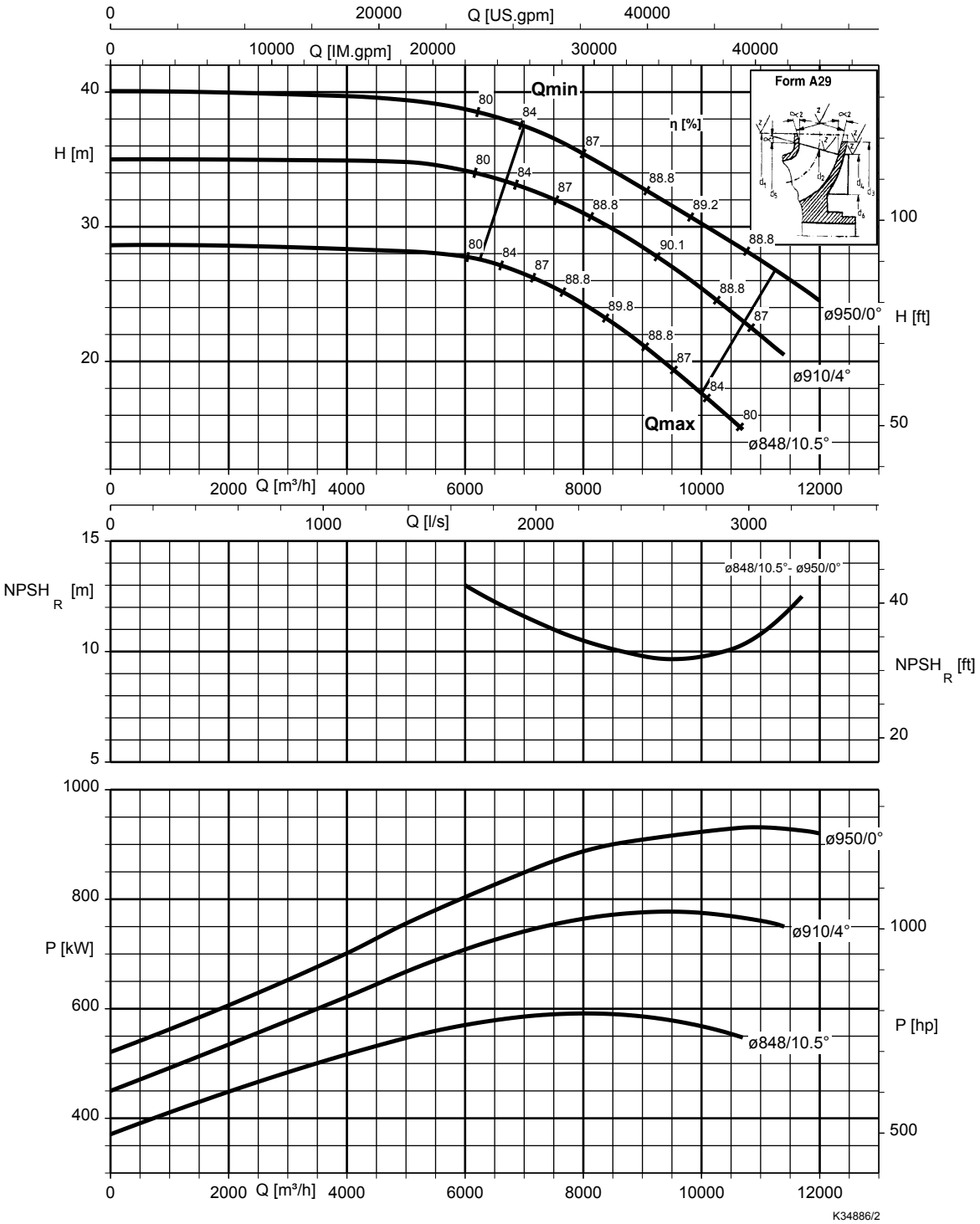
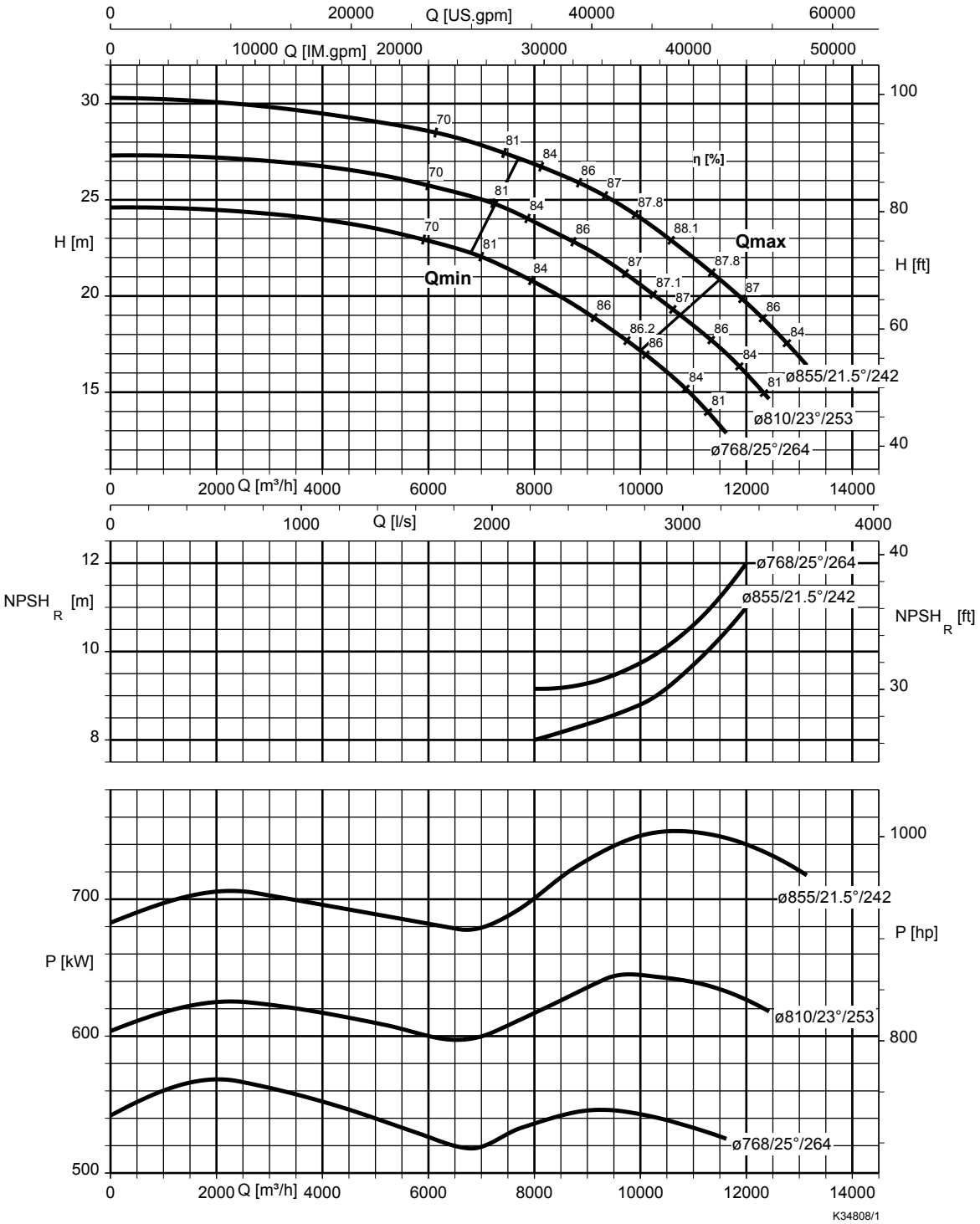
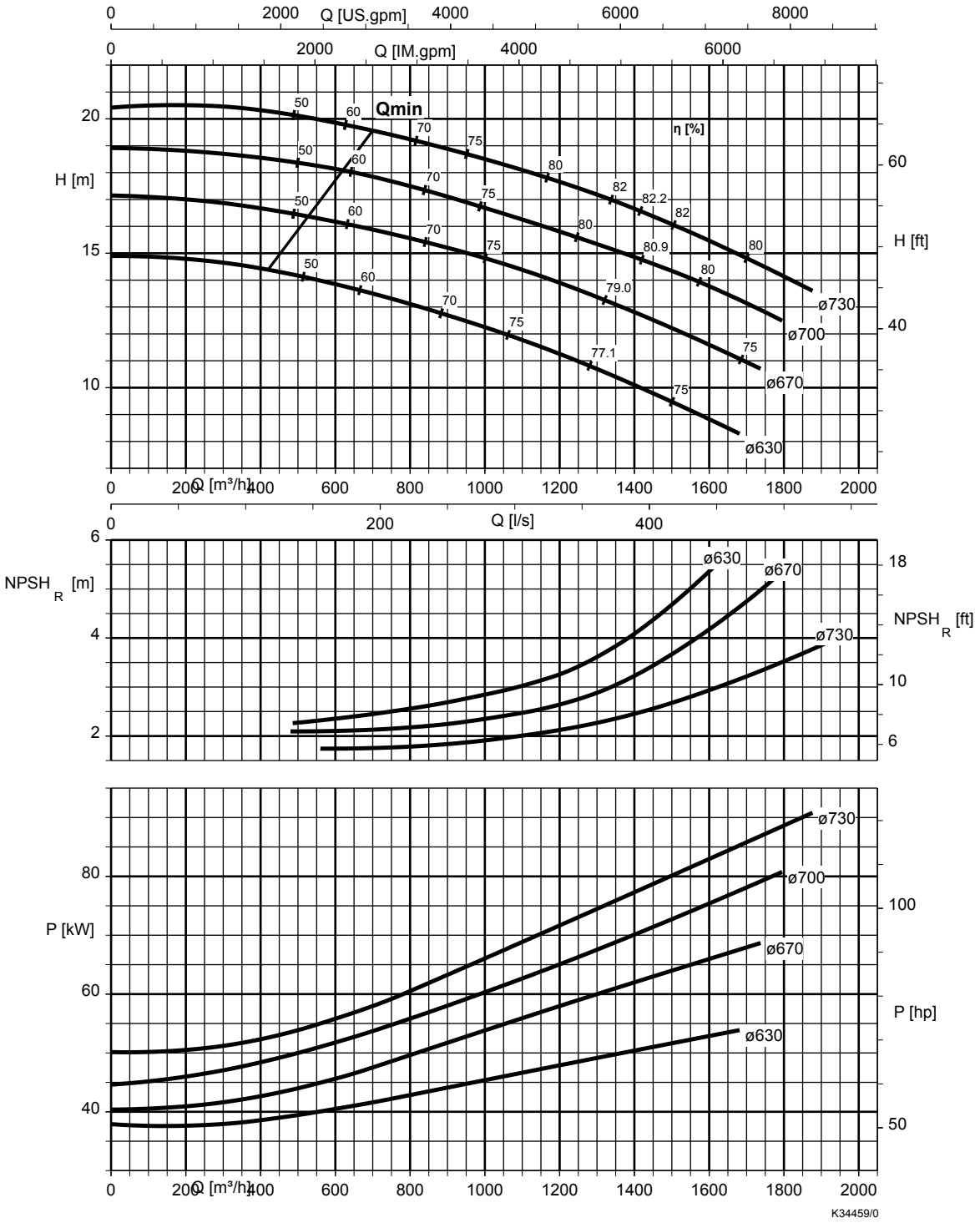


KWP K 800-900-883, n = 580 t/min

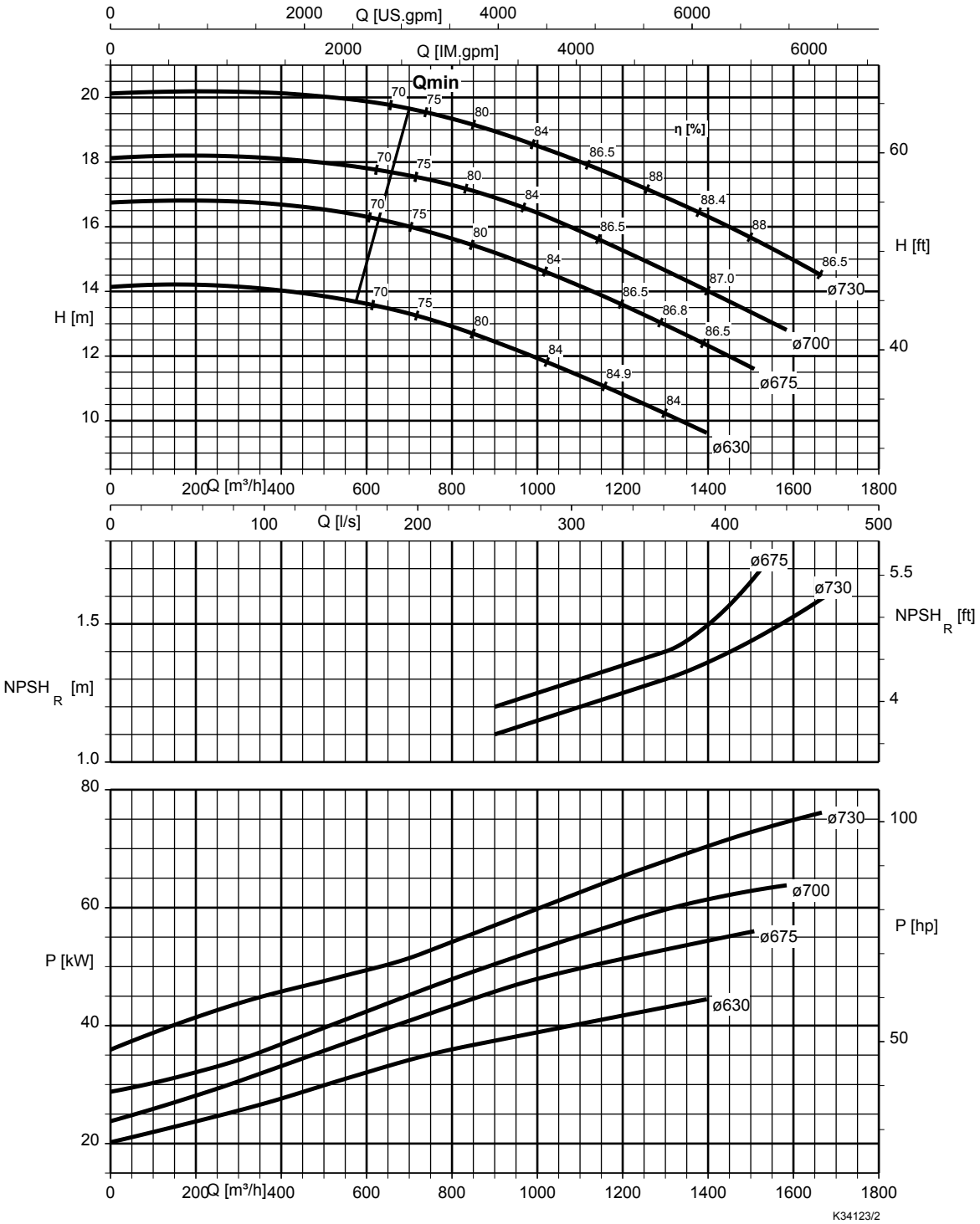


n = 480 t/min

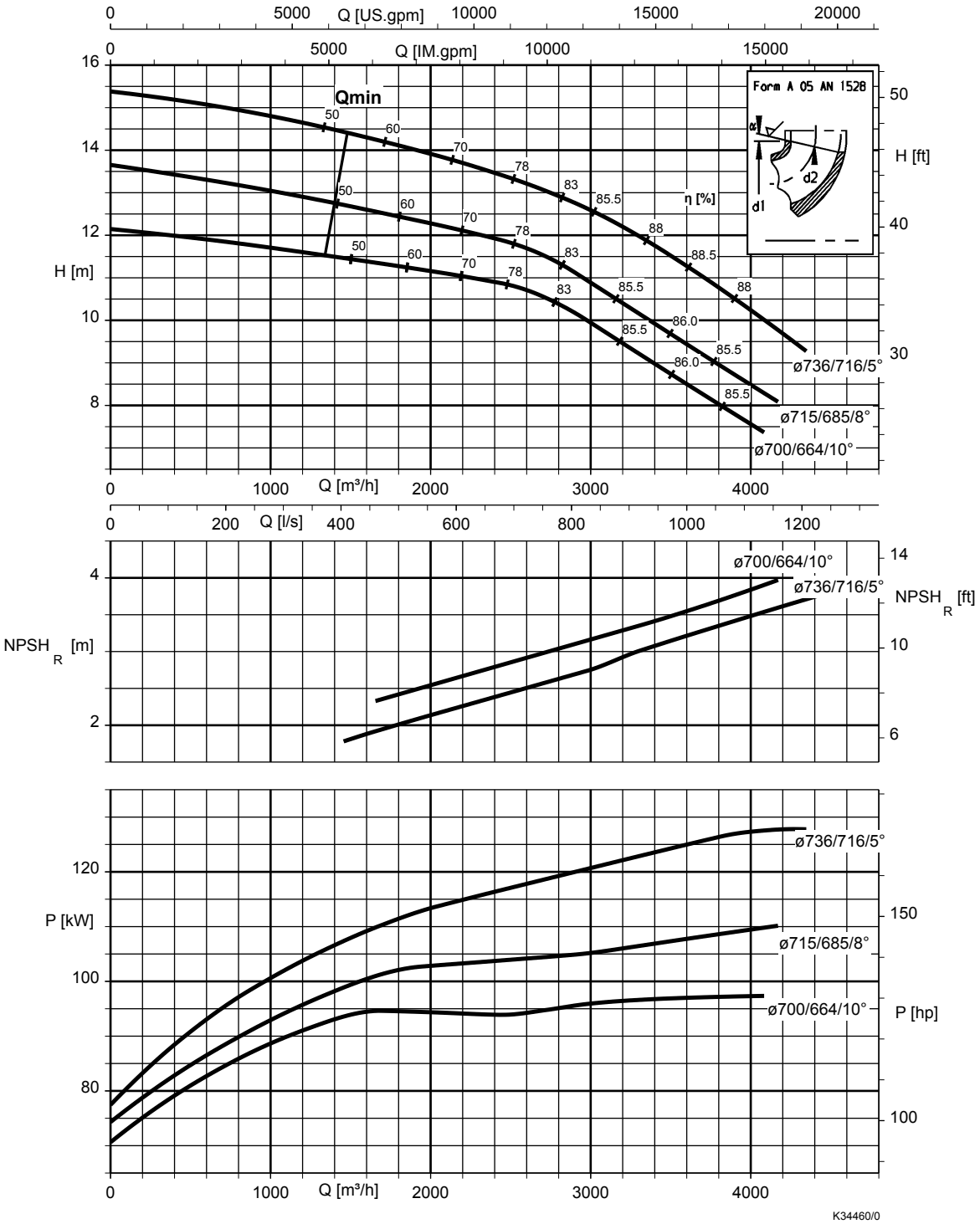
KWP K 500-400-710, n = 480 t/min



KWP K 500-400-713, n = 480 t/min



KWP K 600-600-710, n = 480 t/min



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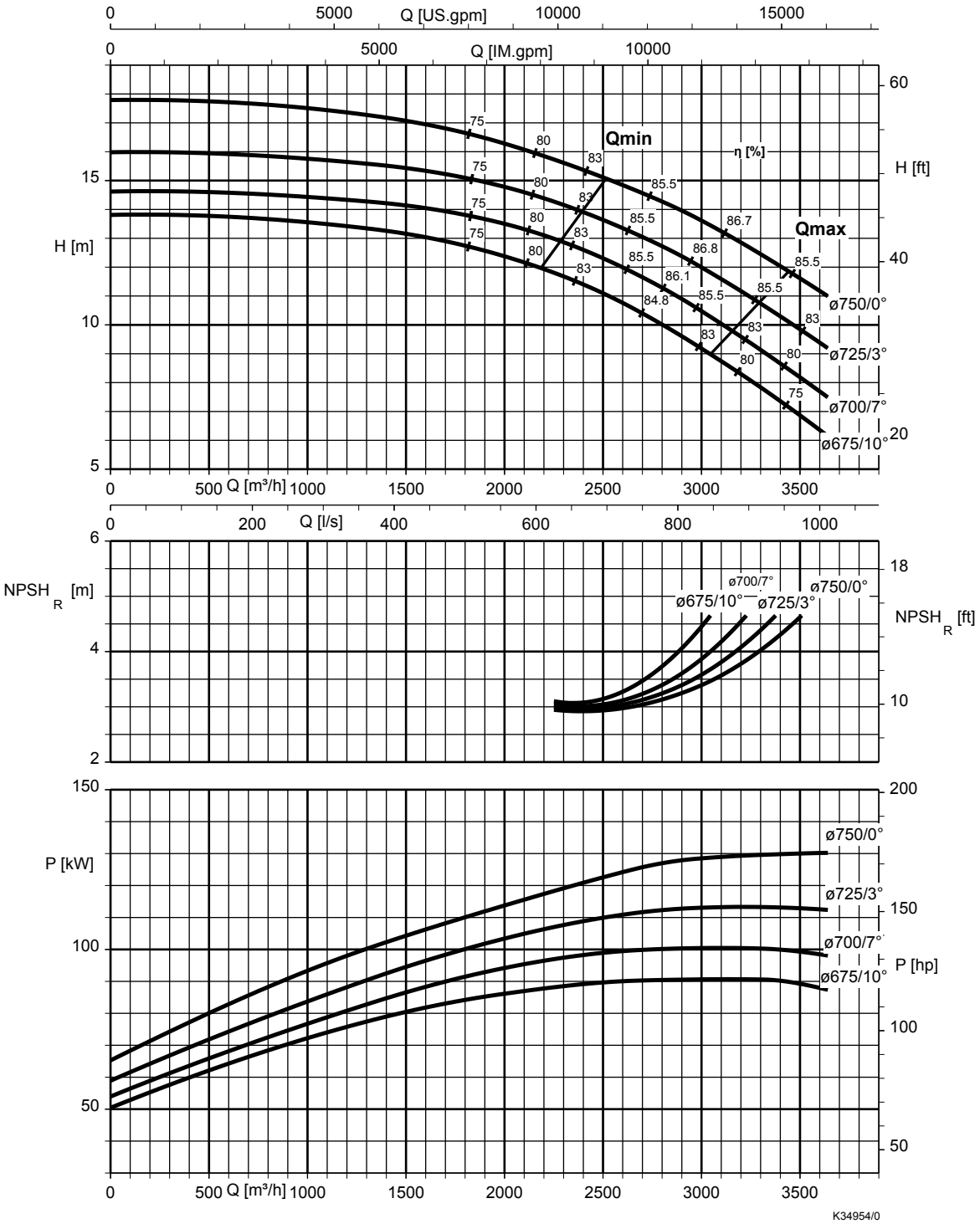

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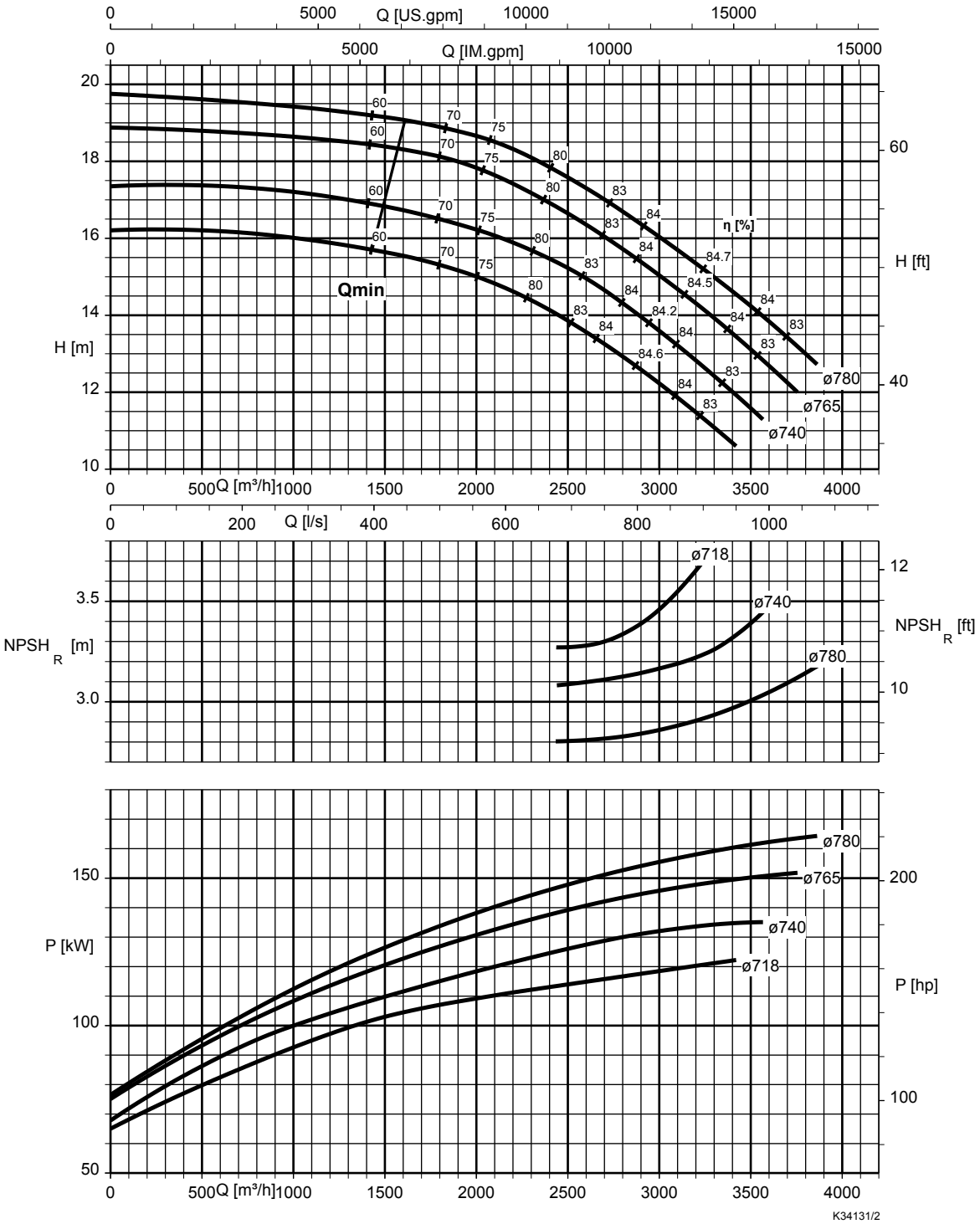

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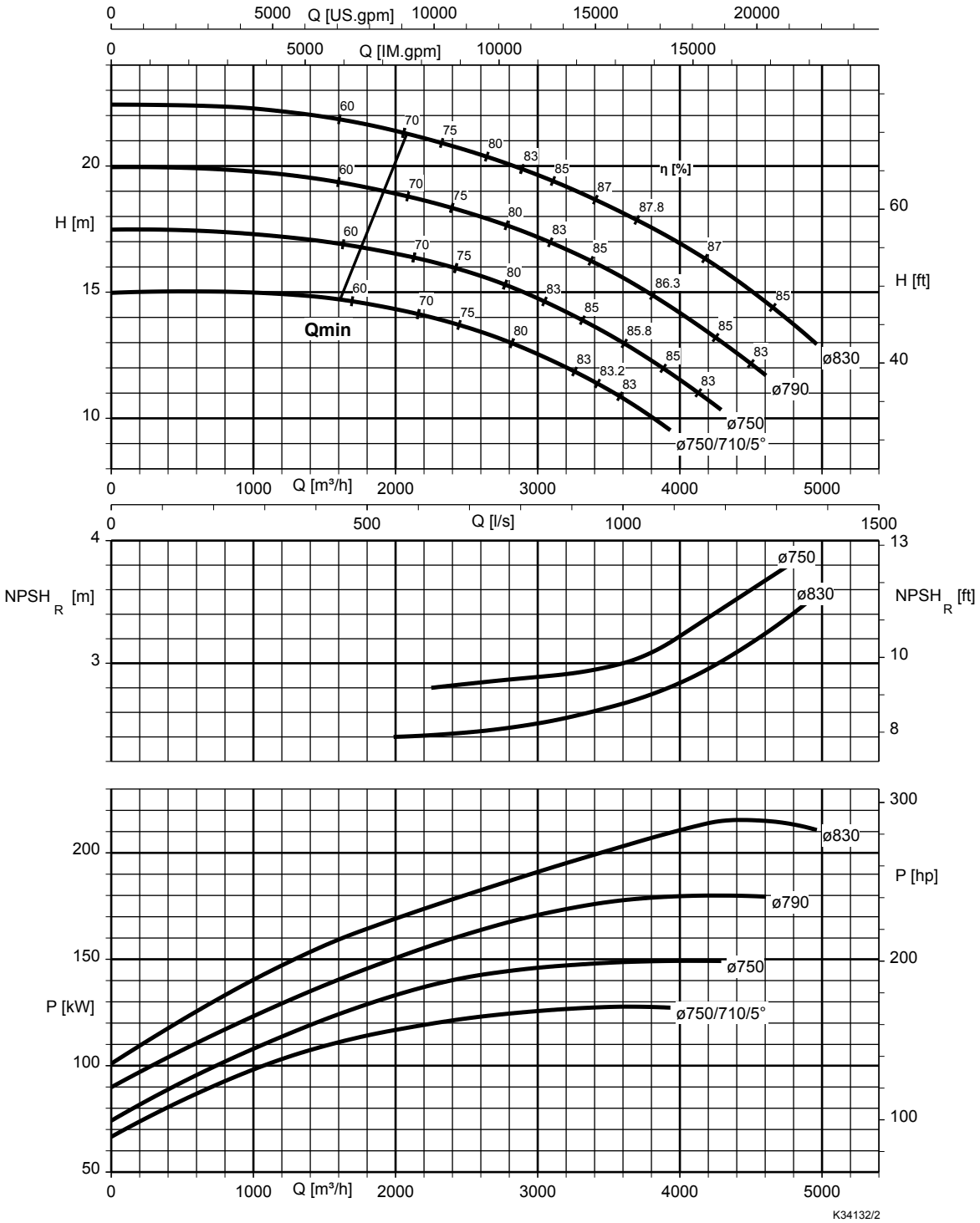

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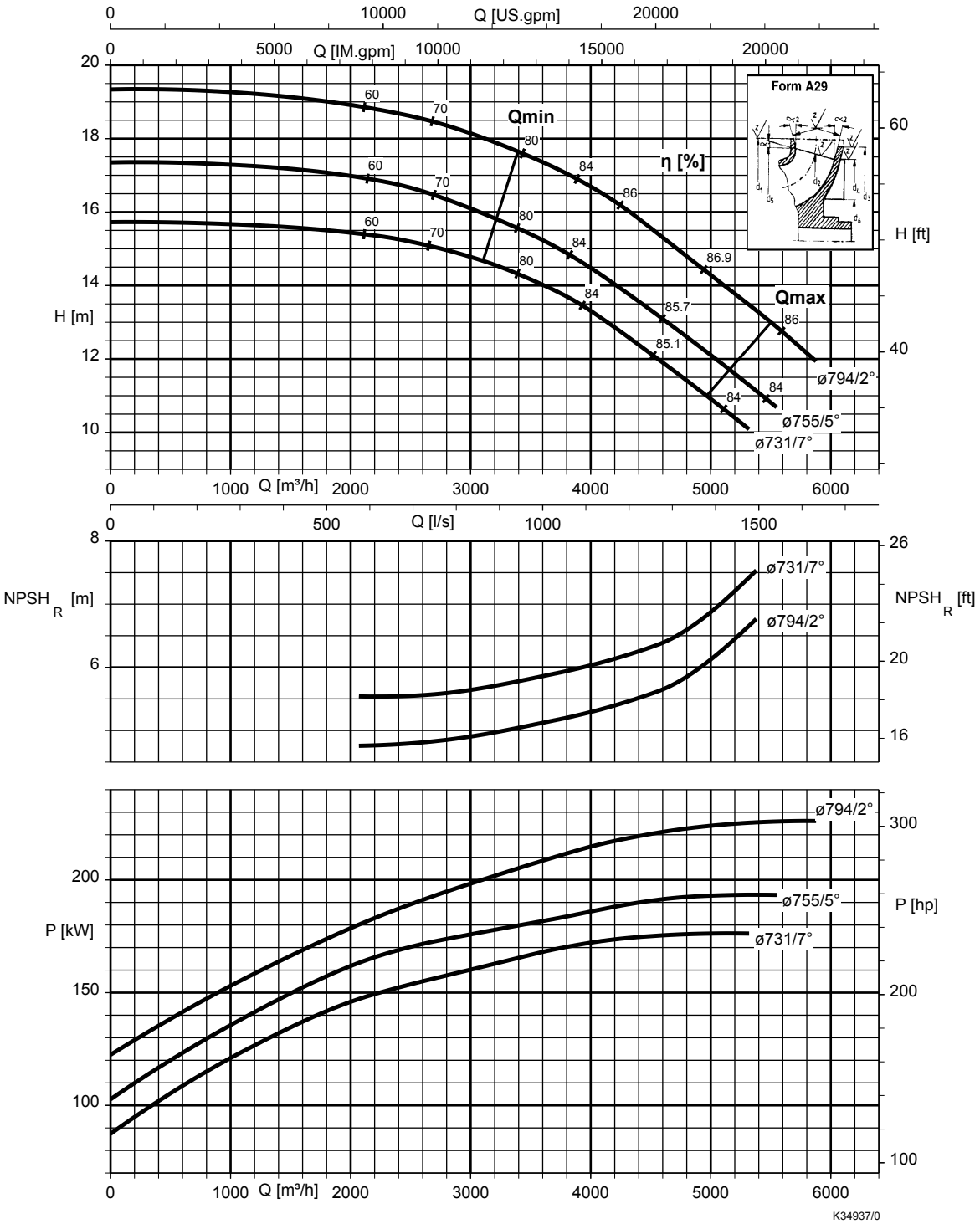

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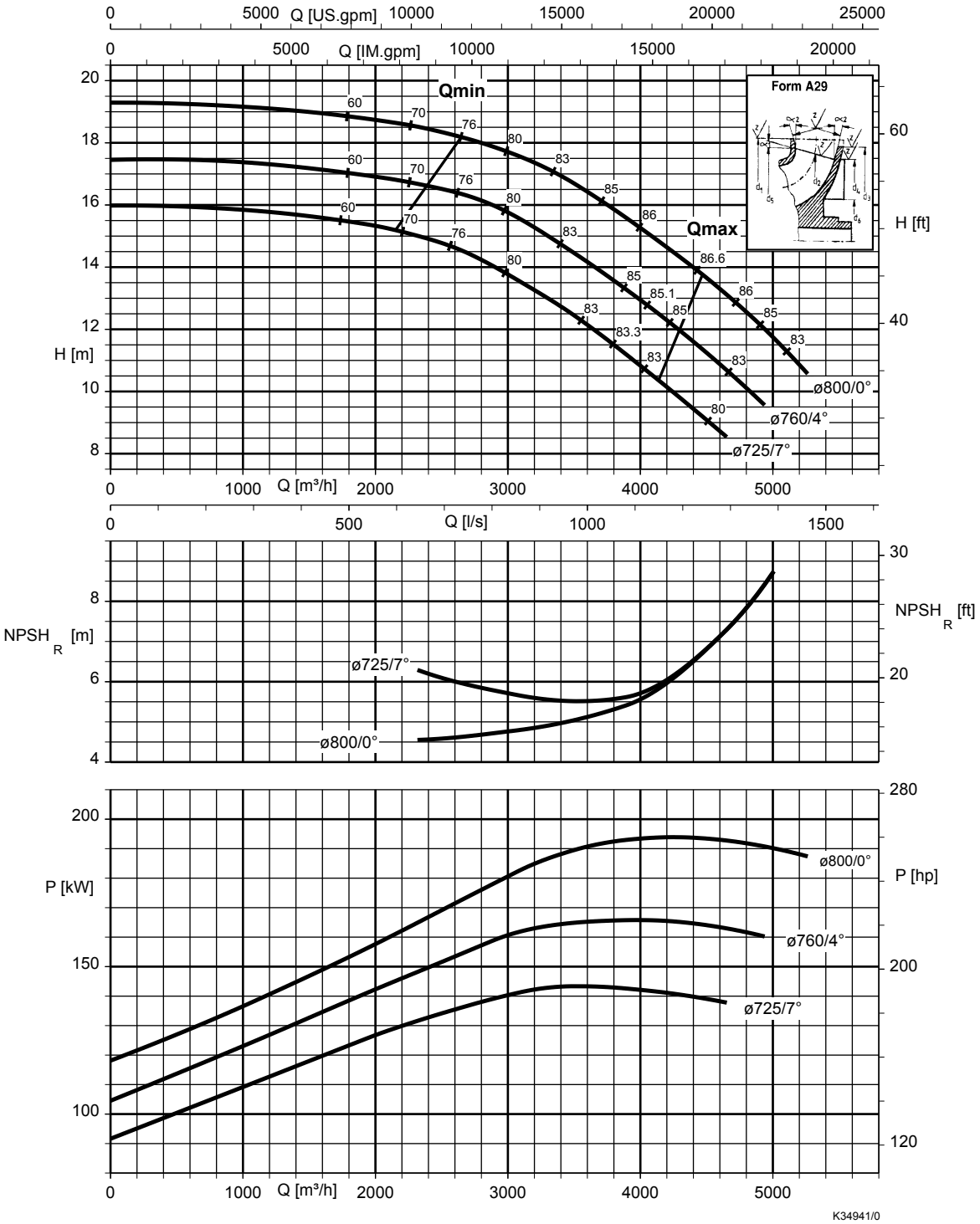

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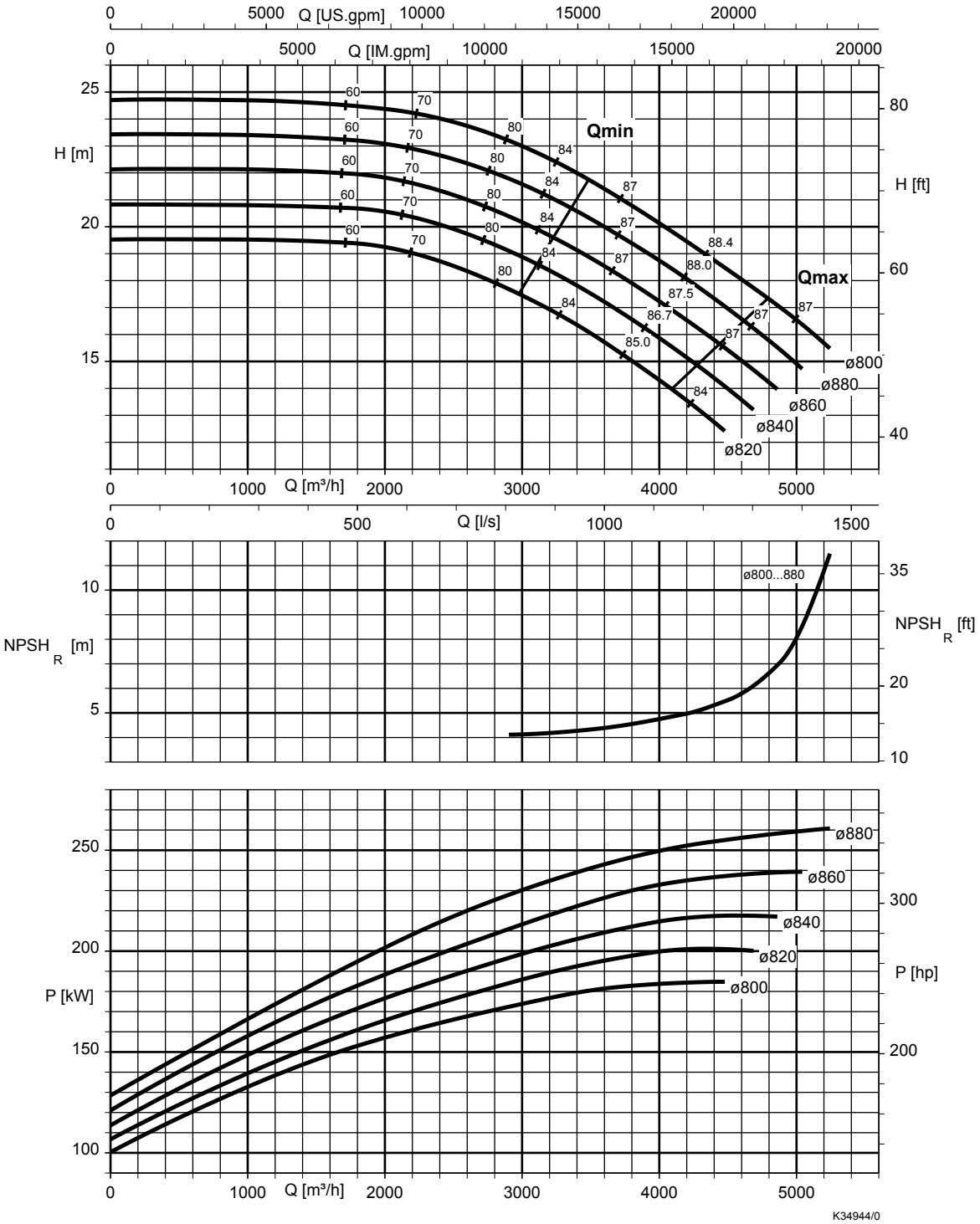

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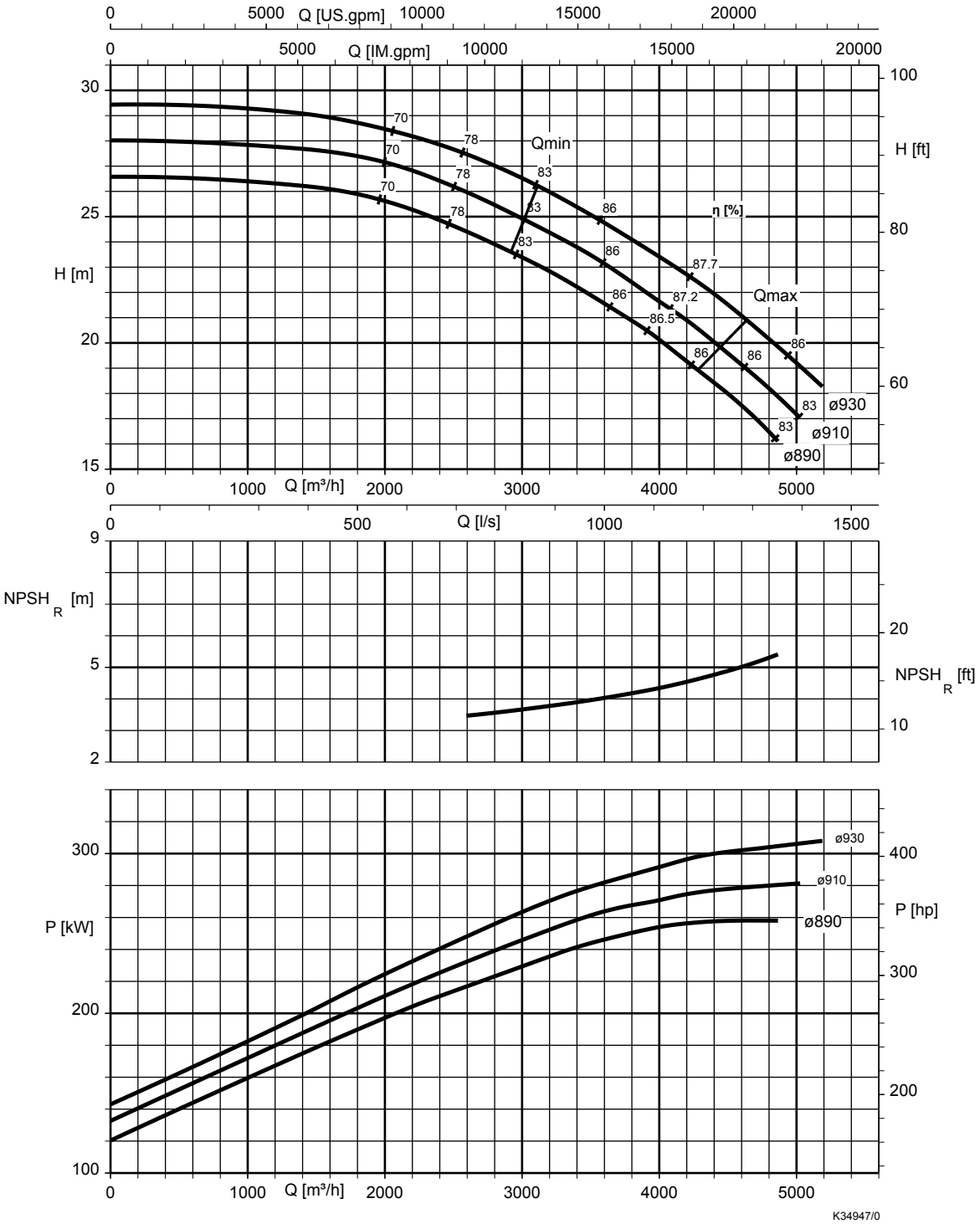

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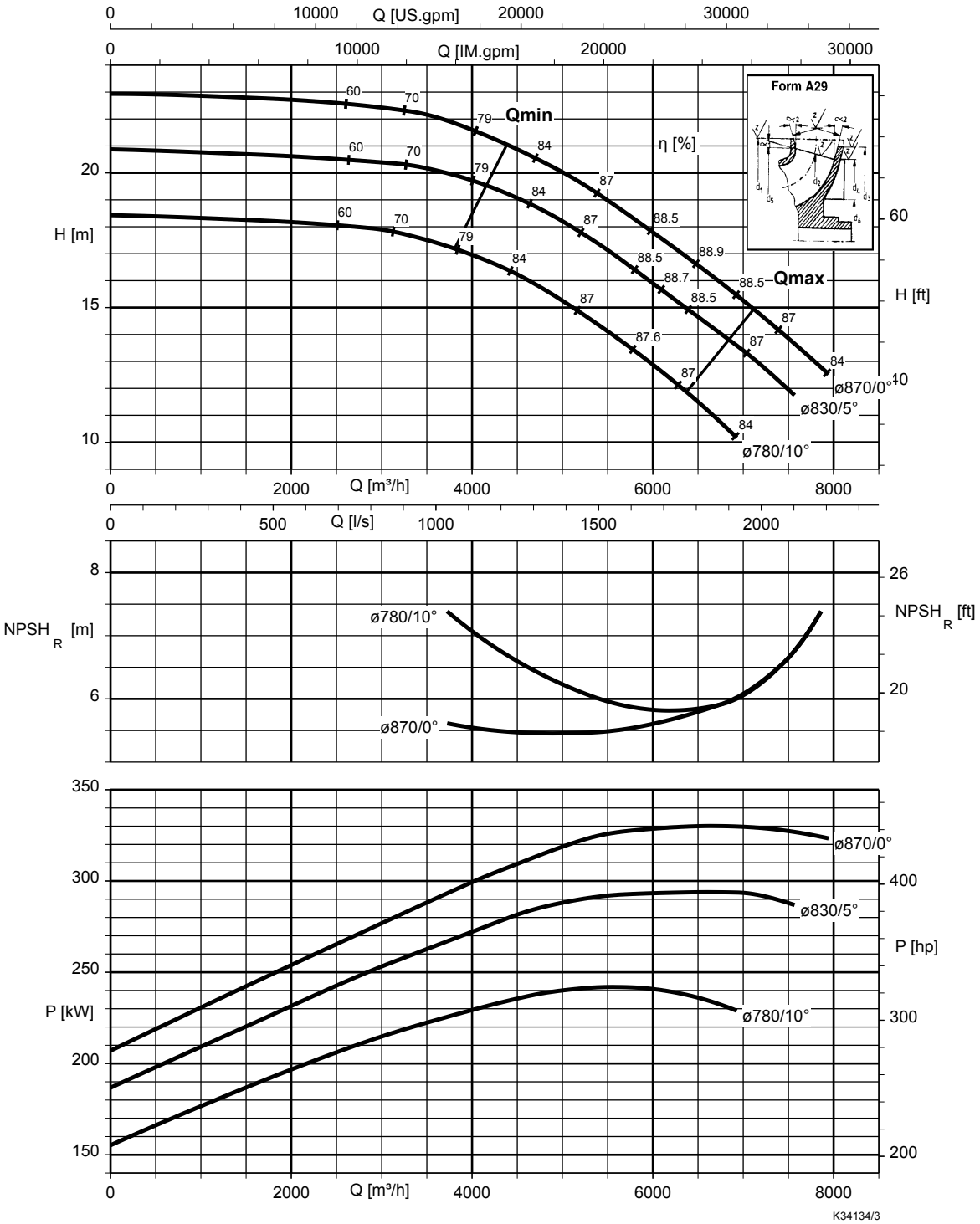

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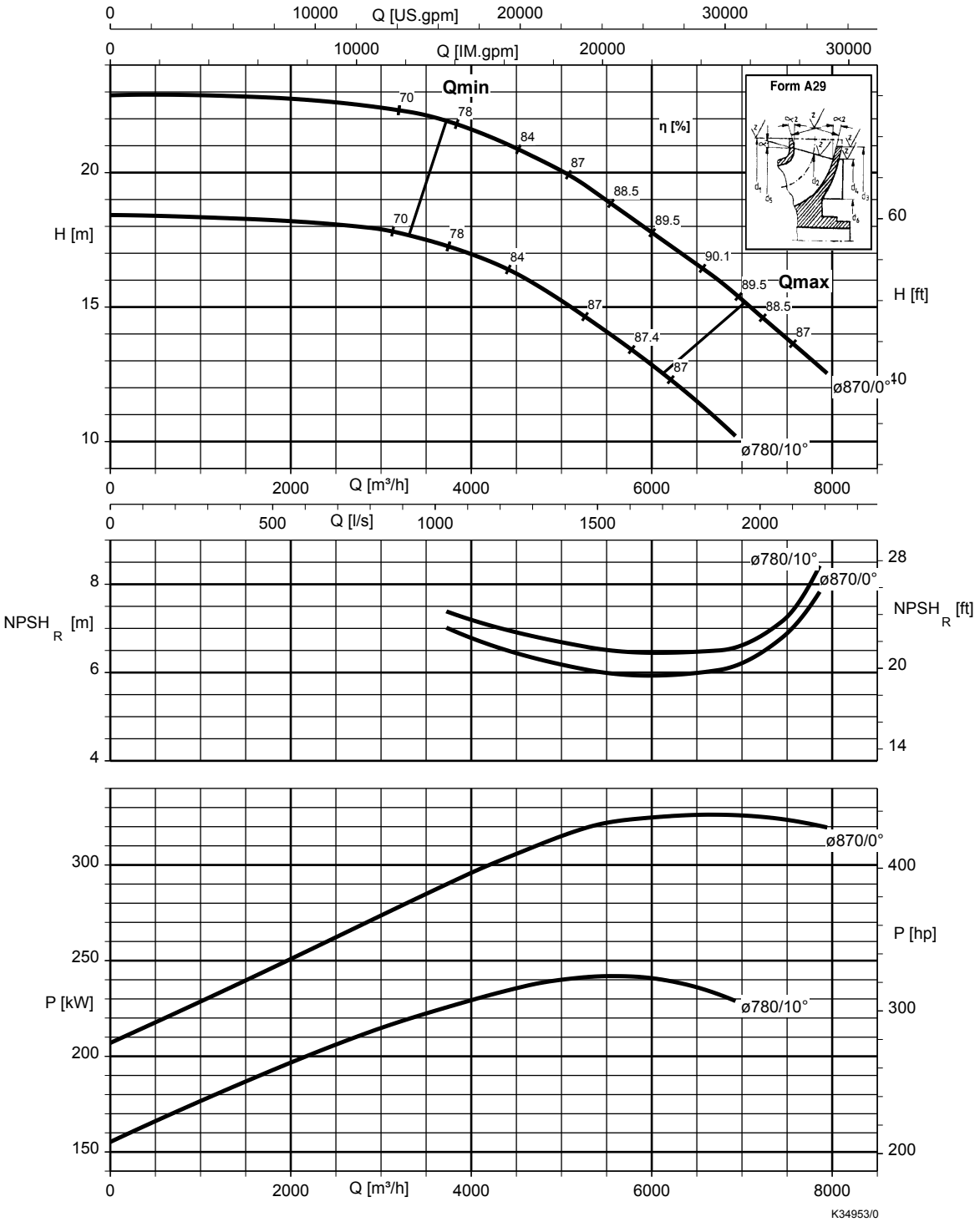

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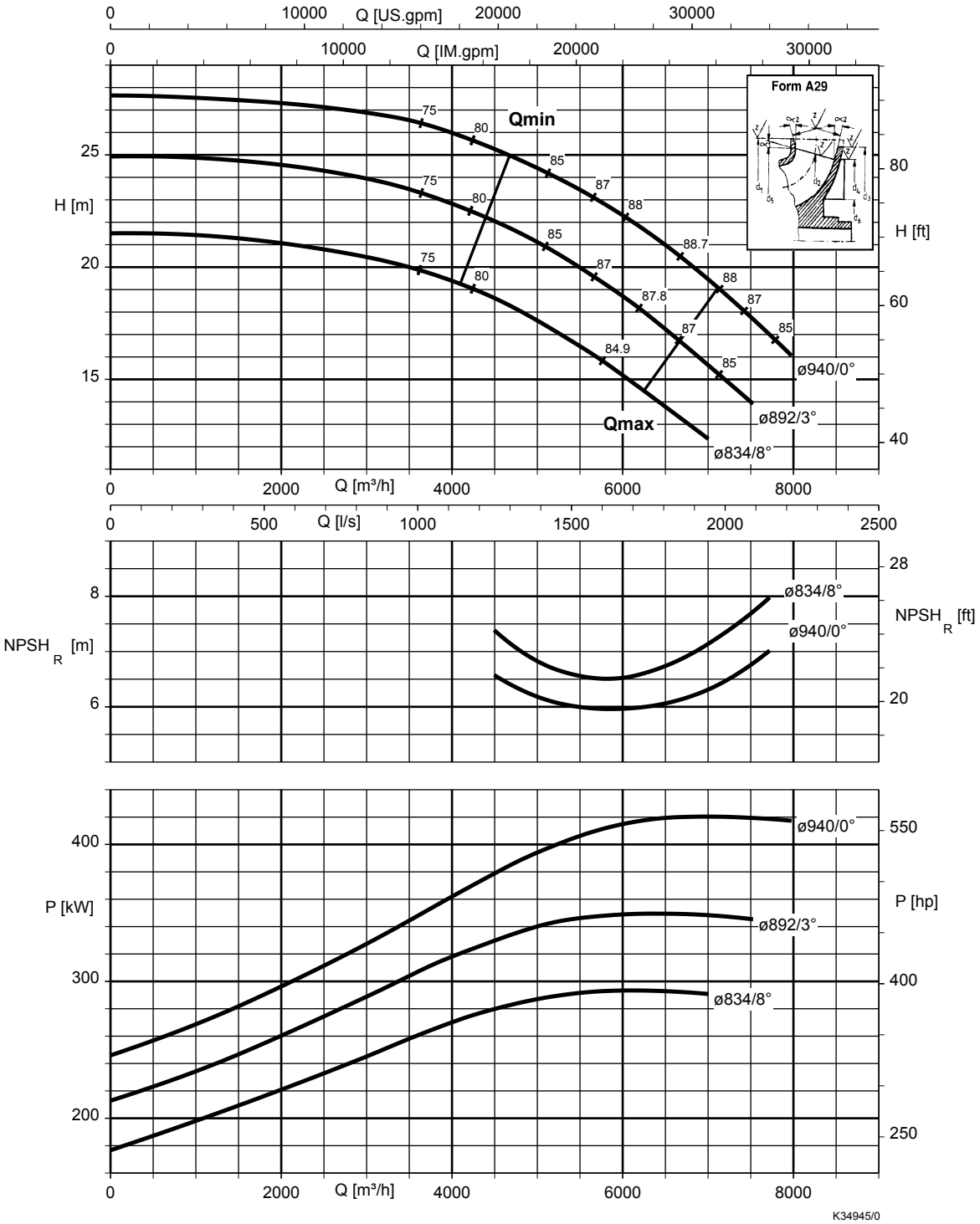

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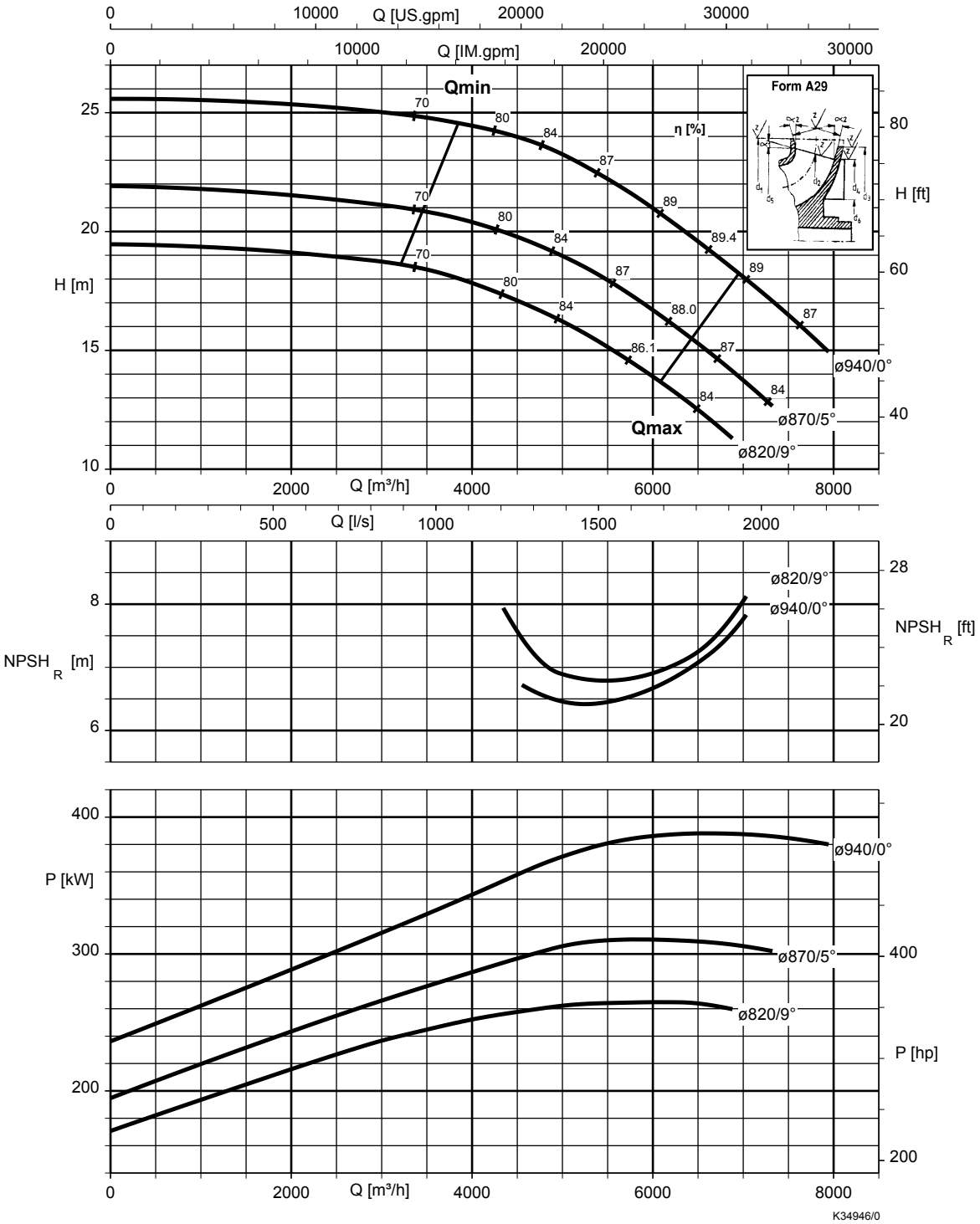

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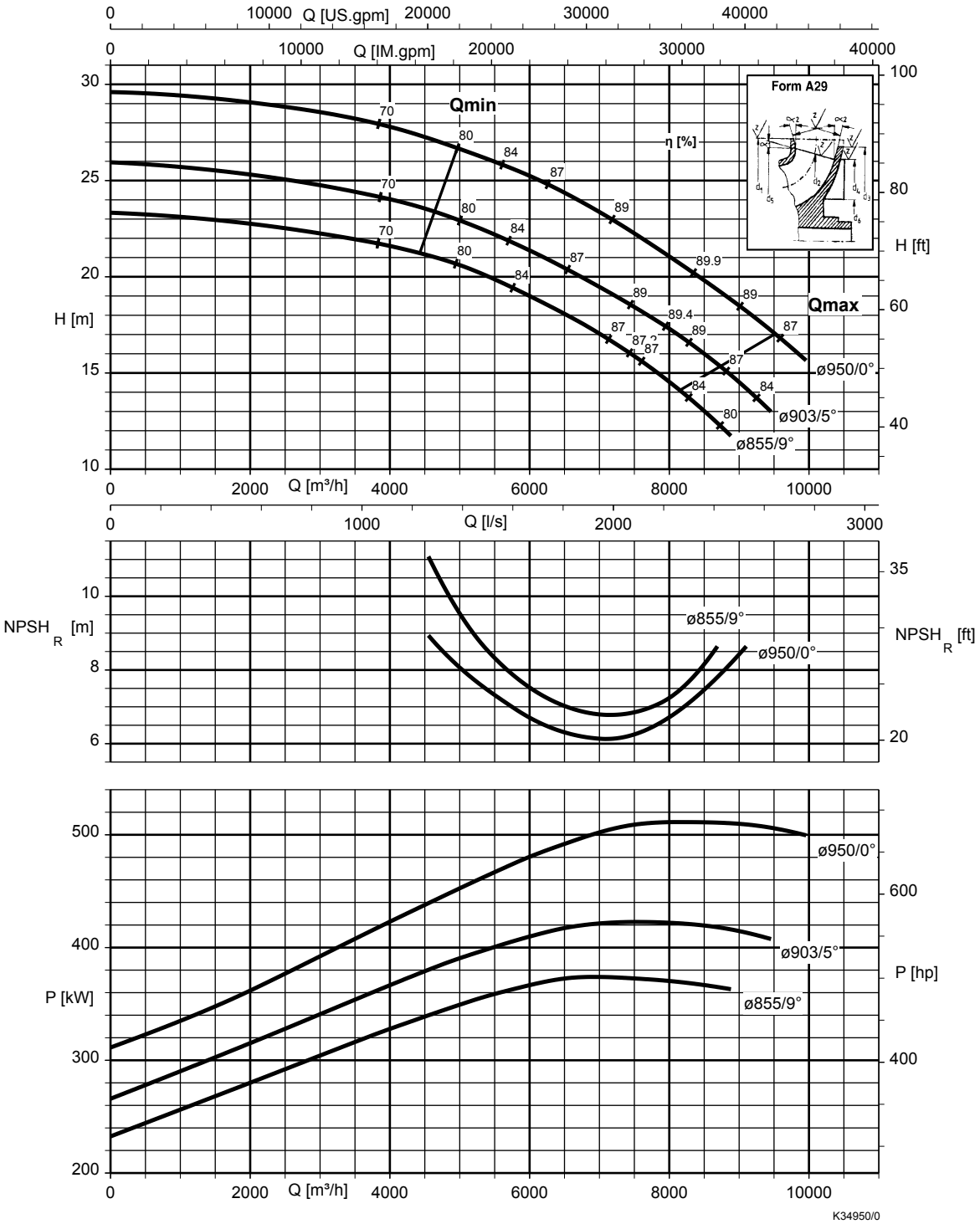

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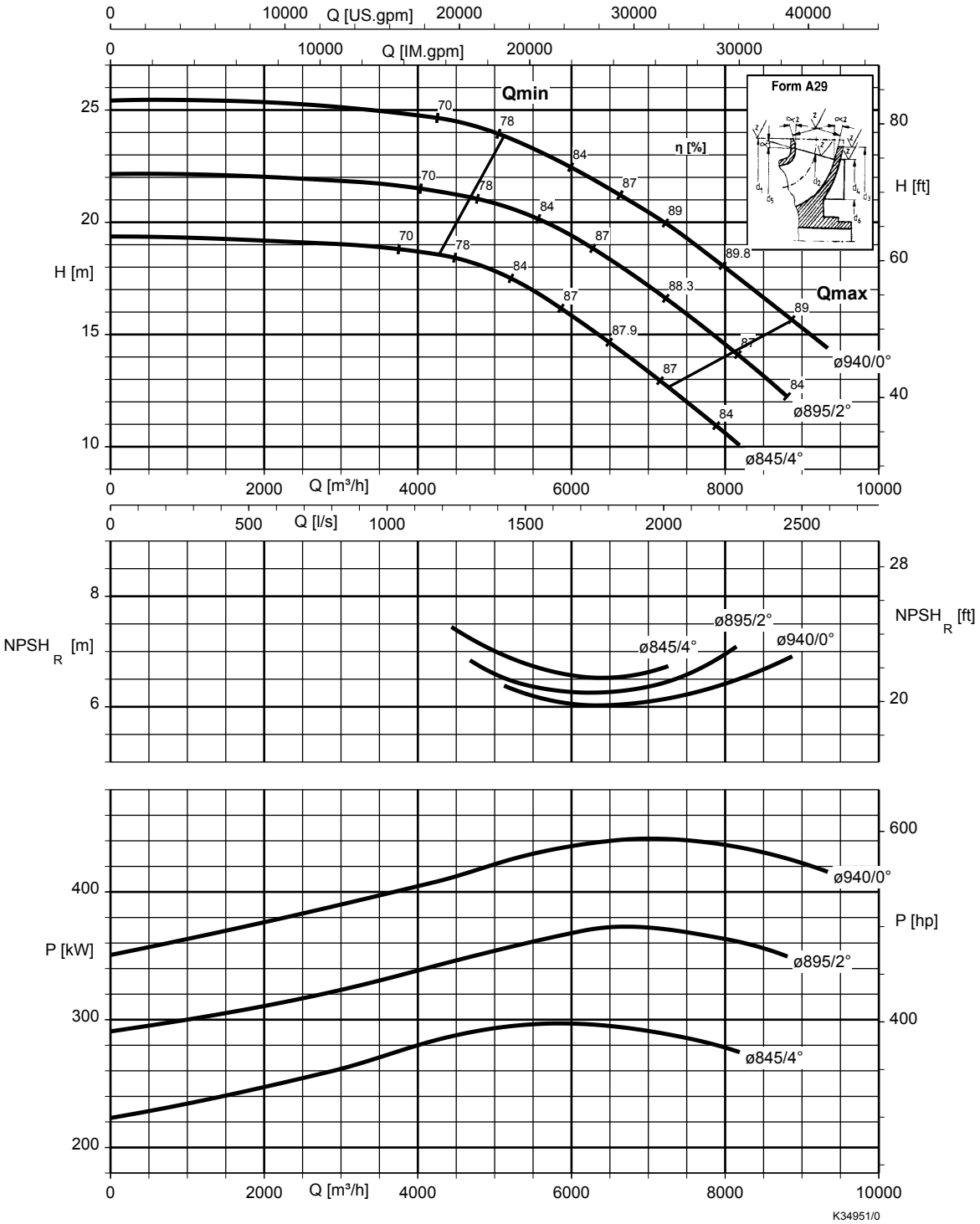

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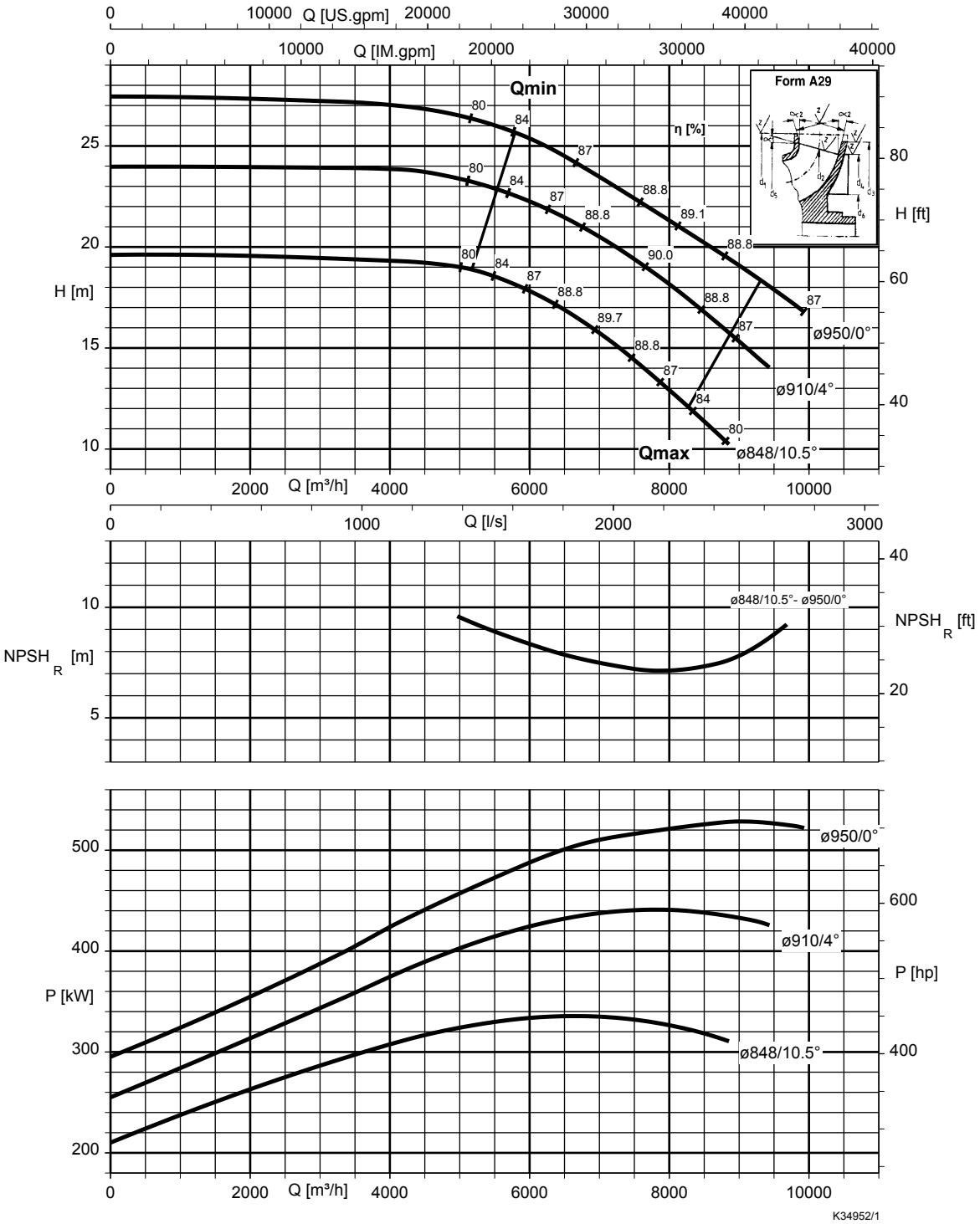
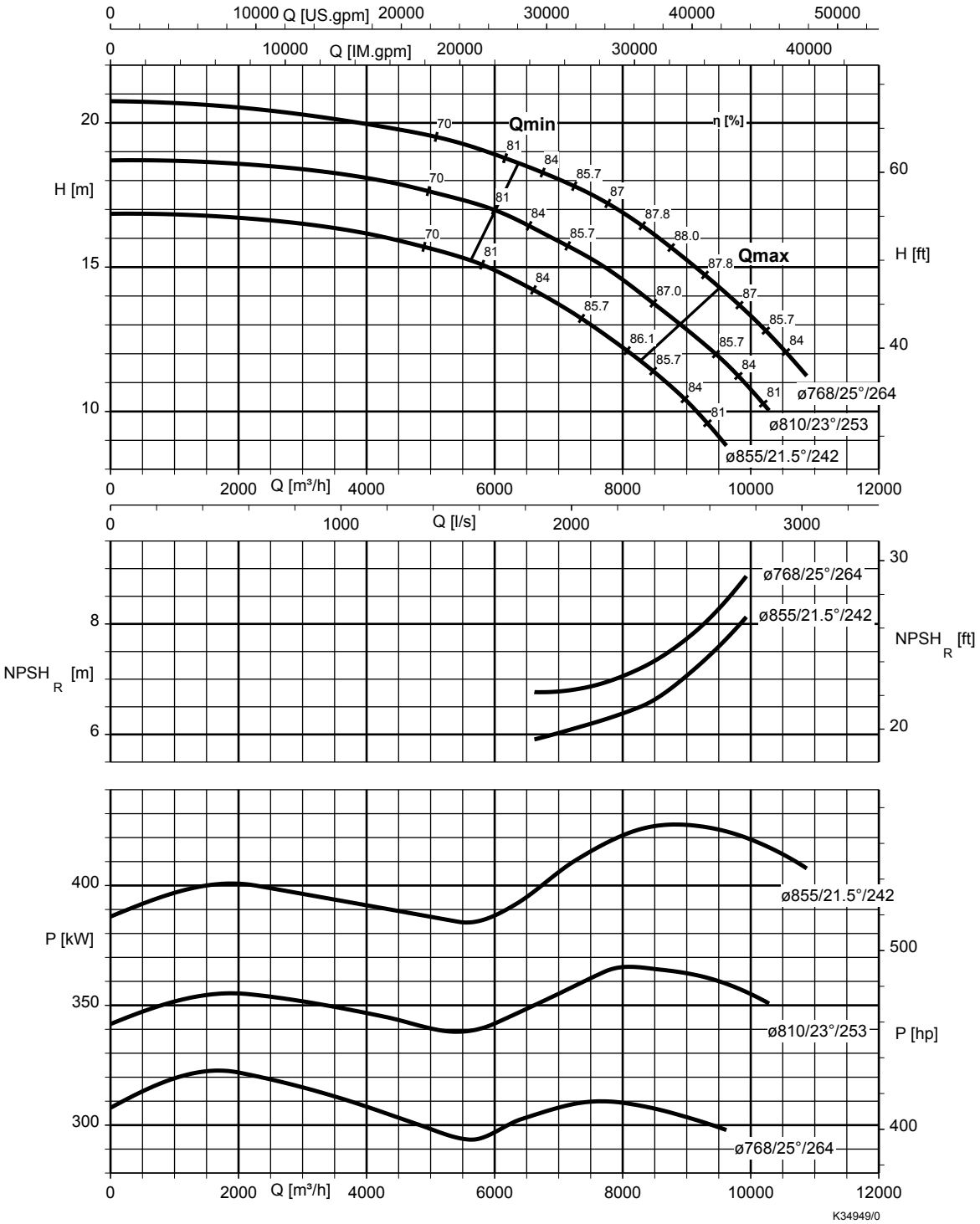


KWP K 800-900-883, n = 480 t/min



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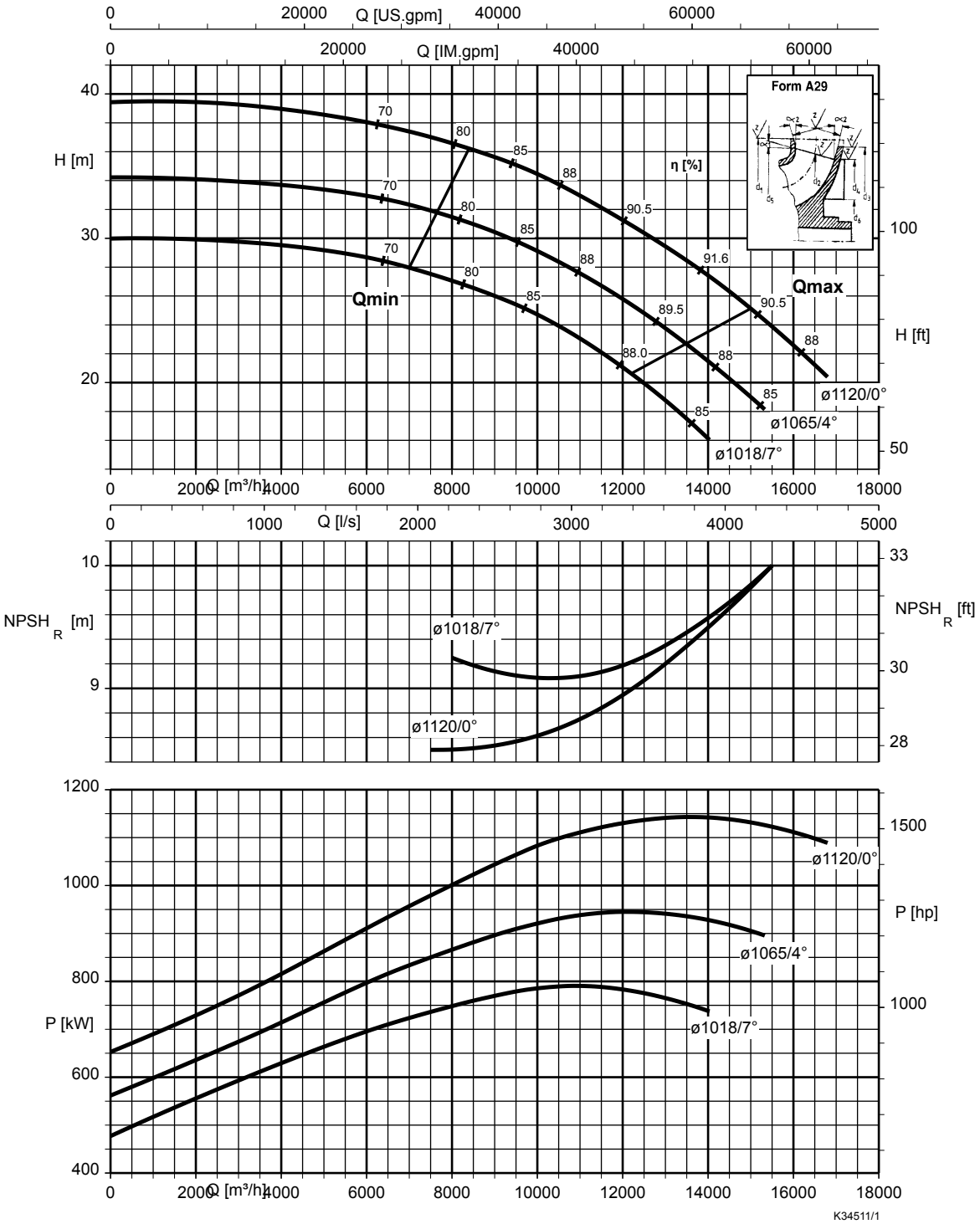

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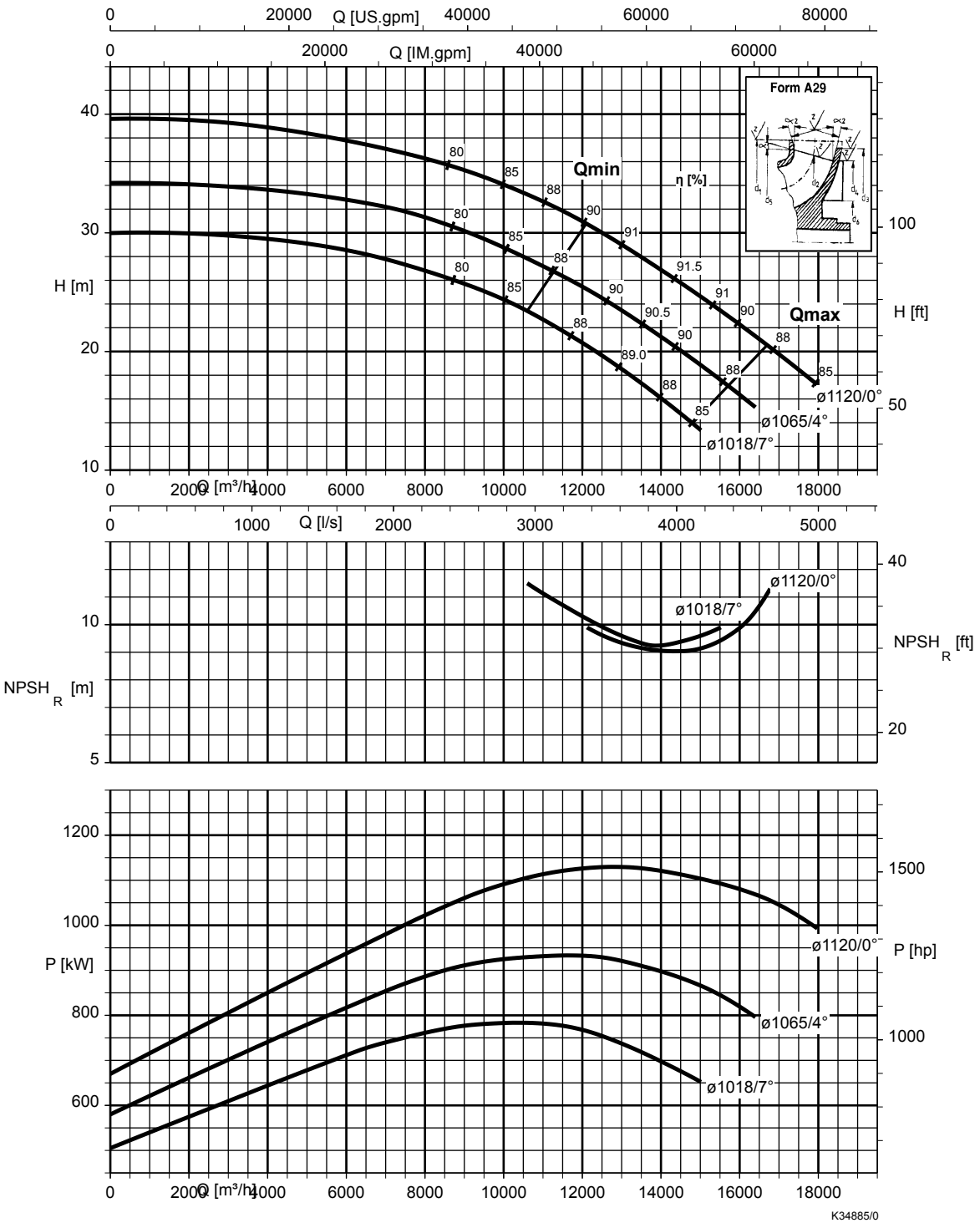

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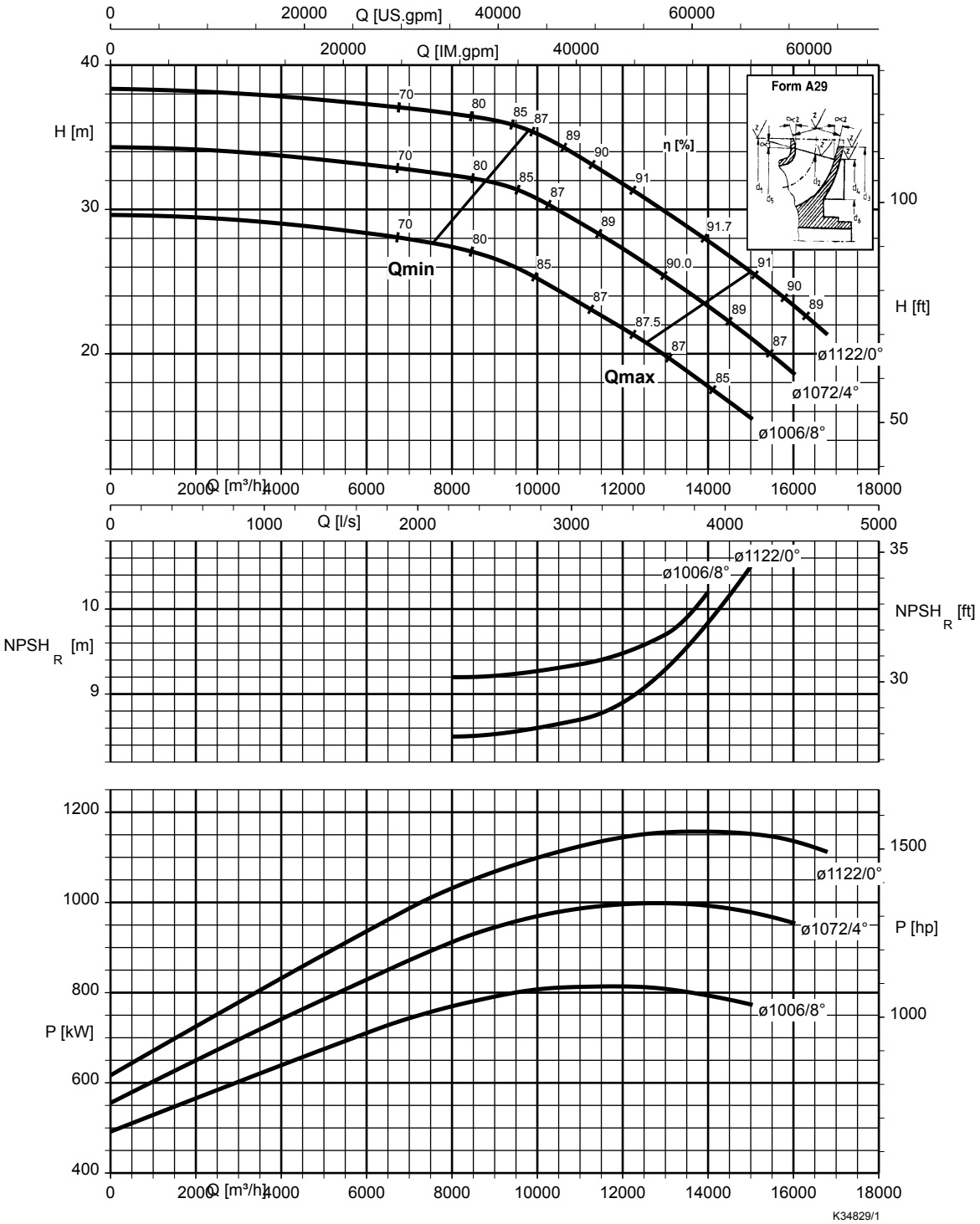

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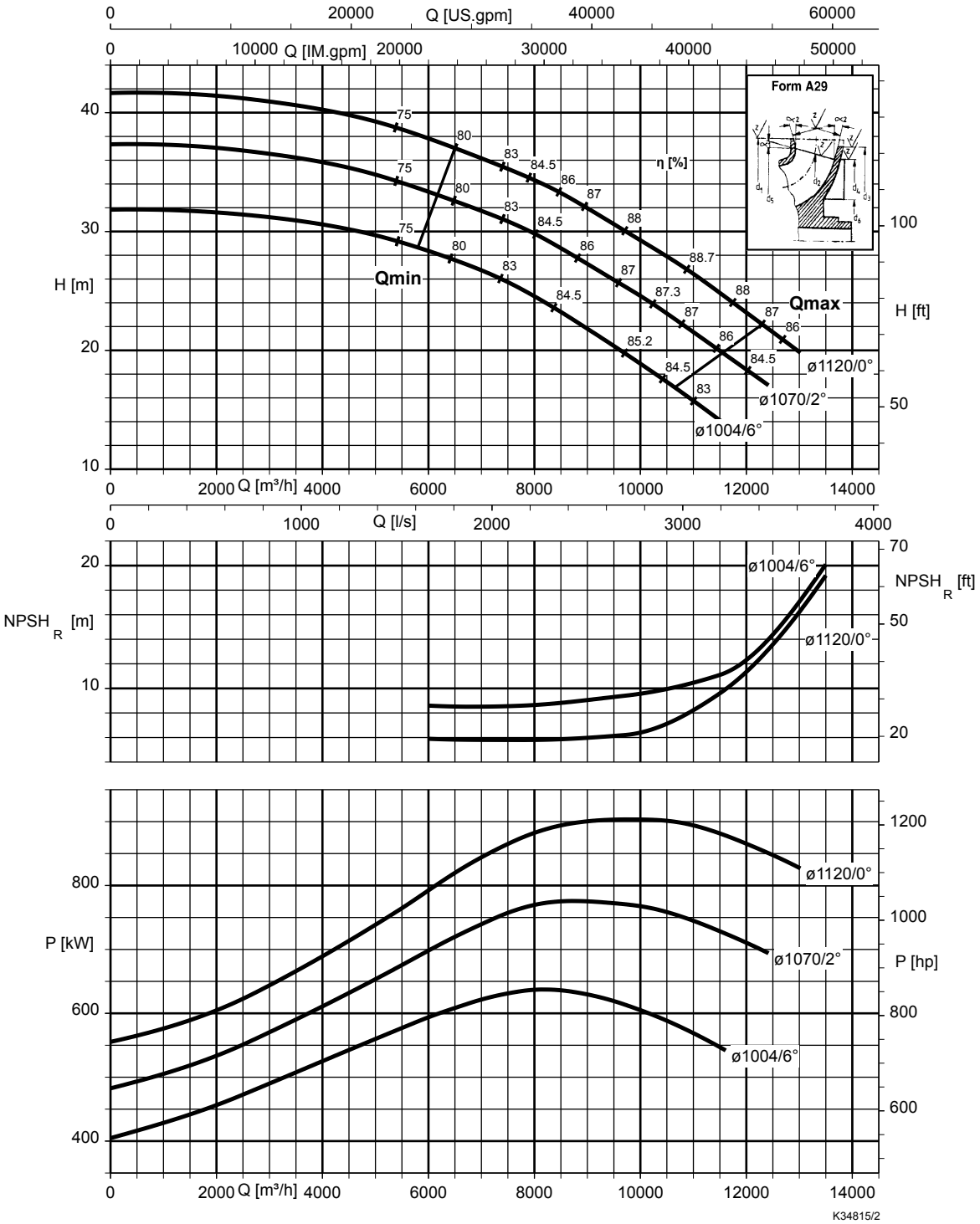

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