Trockenaufgestellte Spiralgehäusepumpe

KWP

60 Hz
K-Laufrad

Kennlinienheft

Impressum

Kennlinienheft KWP

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KWP

Allgemein

Abnahmeklasse: Kennlinien gemäß ISO 9906-Klasse 2B

NPSH-Werte
Die in den Kennlinien angegebenen NPSH-Messwerte entsprechen einem Förderhöhenabfall von 3%. Es sind Minimalwerte. Sie gelten für entgastes Wasser.
Aus Sicherheitsgründen die Kurvenwerte für die Anwendung um mindestens 0,5 m, bei Laufrädern aus CeramikPolySiC (erkennbar an der Endziffern 8 oder 9 in der Baugrößenbezeichnung) ab Baugröße DN 400 um mindestens 3 m erhöhen.

NPSH-Wert im Teillastgebiet
NPSH-Werte für Förderströme kleiner als Q = 0,3 x Q_{opt} können nur mit sehr hohem Aufwand gemessen werden. Der Nachweis von NPSH-Werten im Teillastgebiet wird nicht erbracht.

Dichte des Fördermediums
Förderhöhen und Leistungsangaben gelten für Fördermedien mit einer Dichte ρ = 1,0 kg/dm³ und einer kinematischen Viskosität ν bis max. 20 mm²/s. Ist die Dichte ≠ 1,0, muss die Leistungsangabe mit ρ multipliziert werden. Bei Viskosität >20 mm²/s müssen entsprechende Kaltwasserdaten berechnet und der Einfluss auf die Pumpenleistung ermittelt werden.

Abdrehen des Laufrads
Ein Abdrehen des Laufrads ist für jeden Durchmesser bis zum angegebenen Mindestdurchmesser möglich.

Einsatzgrenzen
Werkstoffbedingte oder ausführungsbedingten Einsatzgrenzen beachten.

Sofern in den Kennlinien keine anderen Angaben gemacht werden, gilt:

- Kurzzeitbetrieb
  - **Bei Baugrößen < DN 600:** Q_{min} [1] = 0,1×Q_{opt} [2]
  - **Bei Baugrößen ≥ DN 600:** Q_{min} [1] = 0,4×Q_{opt} [2]
- Dauerbetrieb
  - **Bei Baugrößen ≤ DN 125:** Q_{min} [1] = 0,2×Q_{opt} [2]
  - **Bei Baugrößen ≥ DN 150:** Q_{min} [1]= 0,3×Q_{opt} [2]
  - **Bei 2-poligem Betrieb:** Q_{max} = 1,1×Q_{opt} [2]
  - **Bei 4-poligem Betrieb:**Q_{max} = 1,25×Q_{opt} [2]

Die in manchen Kennlinien ausgewiesenen senkrechten Angaben zu Q_{max} beschreiben Q_{max} drehzahlunabhängig als Funktion von v_s = 7,5 m/s [3]

Motornennleistung

Die angegebenen Motornennleistungen gelten unter folgenden Bedingungen:

- Umgebungstemperaturen bis 40 °C
- Aufstellungshöhe bis 1000 m über Meeresspiegel
- Spannungen von 230/400 V - 400/690 V

1) Kleinster zulässiger Förderstrom
2) Förderstrom im Betriebspunkt mit dem größten Wirkungsgrad
3) Rohrleitungsgeschwindigkeit saugseitig

Technische Daten Hydraulik

Technische Daten Hydraulik

Baugrößen	Lagerträger	Kugeldurchgang	Schaufelanzahl	Laufraddurchmesser	
				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

Baugrößen	Lagerträger	Kugeldurchgang	Schaufelanzahl	Laufraddurchmesser	
				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

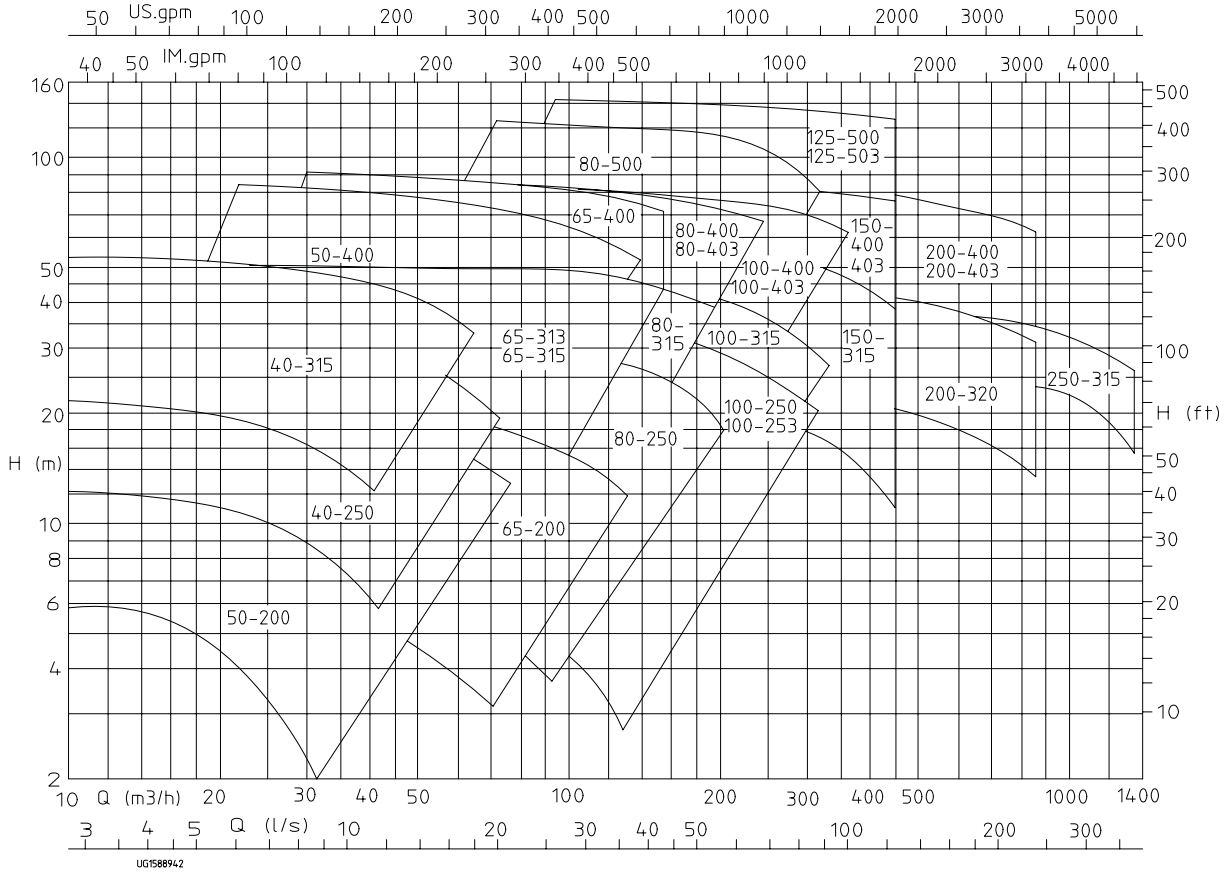
Baugrößenübersicht

Baugröße	Drehzahl [min $^{-1}$]				
	1750	1160	875	700	580
065-040-250	(⇨ Seite 12)	(⇨ Seite 39)	–	–	–
080-040-315	(⇨ Seite 14)	(⇨ Seite 41)	(⇨ Seite 95)	–	–
065-050-200	(⇨ Seite 13)	(⇨ Seite 40)	–	–	–
080-050-400	(⇨ Seite 15)	(⇨ Seite 42)	(⇨ Seite 96)	–	–
080-065-200	(⇨ Seite 16)	(⇨ Seite 43)	–	–	–
080-065-313	(⇨ Seite 17)	(⇨ Seite 44)	(⇨ Seite 97)	–	–
080-065-315	(⇨ Seite 18)	(⇨ Seite 45)	(⇨ Seite 98)	–	–
080-065-400	(⇨ Seite 19)	(⇨ Seite 46)	(⇨ Seite 99)	–	–
100-080-250	(⇨ Seite 20)	(⇨ Seite 47)	–	–	–
100-080-315	(⇨ Seite 21)	(⇨ Seite 48)	(⇨ Seite 100)	–	–
100-080-400	(⇨ Seite 22)	(⇨ Seite 49)	(⇨ Seite 101)	–	–
100-080-403	(⇨ Seite 23)	(⇨ Seite 50)	(⇨ Seite 102)	–	–
125-080-500	(⇨ Seite 24)	(⇨ Seite 51)	(⇨ Seite 103)	(⇨ Seite 152)	–
125-100-250	(⇨ Seite 25)	(⇨ Seite 52)	(⇨ Seite 104)	–	–
125-100-253	(⇨ Seite 26)	(⇨ Seite 53)	(⇨ Seite 105)	–	–
125-100-315	(⇨ Seite 27)	(⇨ Seite 54)	(⇨ Seite 106)	–	–
125-100-400	(⇨ Seite 28)	(⇨ Seite 55)	(⇨ Seite 107)	–	–
125-100-403	(⇨ Seite 29)	(⇨ Seite 56)	(⇨ Seite 108)	–	–
150-125-500	(⇨ Seite 30)	(⇨ Seite 57)	(⇨ Seite 109)	(⇨ Seite 153)	–
150-125-503	(⇨ Seite 31)	(⇨ Seite 58)	(⇨ Seite 110)	(⇨ Seite 154)	–
150-150-315	(⇨ Seite 32)	(⇨ Seite 59)	(⇨ Seite 111)	(⇨ Seite 155)	–
150-150-400	(⇨ Seite 33)	(⇨ Seite 60)	(⇨ Seite 112)	(⇨ Seite 156)	–
150-150-403	(⇨ Seite 34)	(⇨ Seite 61)	(⇨ Seite 113)	(⇨ Seite 157)	–
200-200-320	(⇨ Seite 35)	(⇨ Seite 62)	(⇨ Seite 114)	(⇨ Seite 158)	–
200-200-400	(⇨ Seite 36)	(⇨ Seite 63)	(⇨ Seite 115)	(⇨ Seite 159)	–
200-200-403	(⇨ Seite 37)	(⇨ Seite 64)	(⇨ Seite 116)	(⇨ Seite 160)	–
200-200-500	–	–	–	–	–
200-200-501	–	(⇨ Seite 65)	(⇨ Seite 117)	(⇨ Seite 161)	–
200-200-503	–	(⇨ Seite 66)	(⇨ Seite 118)	(⇨ Seite 162)	–
250-250-315	(⇨ Seite 38)	(⇨ Seite 67)	(⇨ Seite 119)	(⇨ Seite 163)	–
250-250-400	–	(⇨ Seite 68)	(⇨ Seite 120)	(⇨ Seite 164)	–
250-250-403	–	(⇨ Seite 69)	(⇨ Seite 121)	(⇨ Seite 165)	–
250-250-500	–	(⇨ Seite 70)	(⇨ Seite 122)	(⇨ Seite 166)	–
250-250-503	–	(⇨ Seite 71)	(⇨ Seite 123)	(⇨ Seite 167)	–
250-250-505	–	(⇨ Seite 72)	(⇨ Seite 124)	(⇨ Seite 168)	–
250-250-630	–	(⇨ Seite 73)	(⇨ Seite 125)	(⇨ Seite 169)	(⇨ Seite 201)
250-250-634	–	(⇨ Seite 74)	(⇨ Seite 126)	(⇨ Seite 170)	(⇨ Seite 202)
300-300-400	–	(⇨ Seite 75)	(⇨ Seite 127)	(⇨ Seite 171)	–
300-300-401	–	(⇨ Seite 76)	(⇨ Seite 128)	(⇨ Seite 172)	–
300-300-500	–	(⇨ Seite 77)	(⇨ Seite 129)	(⇨ Seite 173)	–
300-300-503	–	(⇨ Seite 78)	(⇨ Seite 130)	(⇨ Seite 174)	–
350-350-400	–	(⇨ Seite 79)	(⇨ Seite 131)	(⇨ Seite 175)	–

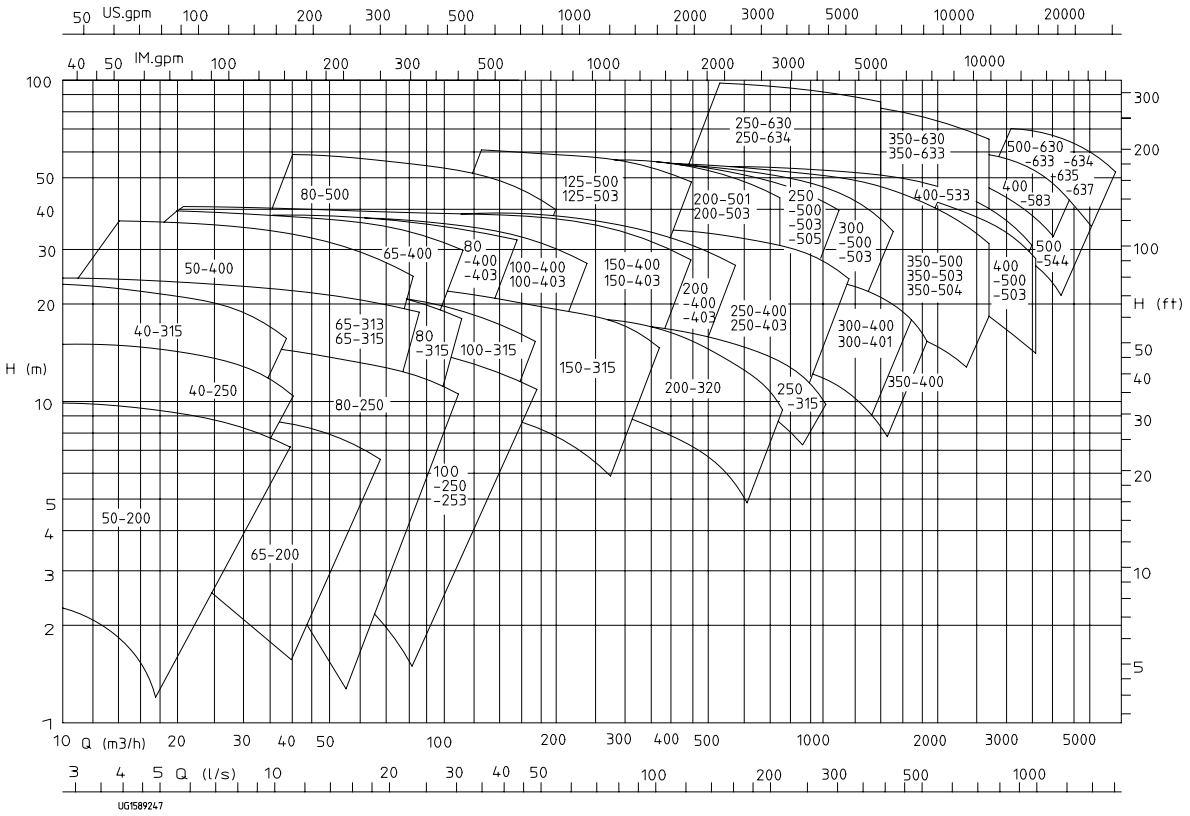
Baugröße	Drehzahl [min $^{-1}$]				
	1750	1160	875	700	580
350-350-500	–	(⇨ Seite 80)	(⇨ Seite 132)	(⇨ Seite 176)	–
350-350-503	–	(⇨ Seite 81)	(⇨ Seite 133)	(⇨ Seite 177)	–
350-350-504	–	(⇨ Seite 82)	(⇨ Seite 134)	(⇨ Seite 178)	–
350-350-630	–	(⇨ Seite 83)	(⇨ Seite 135)	(⇨ Seite 179)	(⇨ Seite 203)
350-350-633	–	(⇨ Seite 84)	(⇨ Seite 136)	(⇨ Seite 180)	(⇨ Seite 204)
400-400-500	–	(⇨ Seite 85)	(⇨ Seite 137)	(⇨ Seite 181)	–
400-400-503	–	(⇨ Seite 86)	(⇨ Seite 138)	(⇨ Seite 182)	–
400-400-533	–	(⇨ Seite 87)	(⇨ Seite 139)	(⇨ Seite 183)	(⇨ Seite 205)
400-400-583	–	(⇨ Seite 88)	(⇨ Seite 140)	(⇨ Seite 184)	(⇨ Seite 206)
500-400-710	–	–	(⇨ Seite 141)	(⇨ Seite 185)	(⇨ Seite 207)
500-400-713	–	–	(⇨ Seite 142)	(⇨ Seite 186)	(⇨ Seite 208)
500-500-544	–	(⇨ Seite 89)	(⇨ Seite 143)	(⇨ Seite 187)	(⇨ Seite 209)
500-500-630	–	(⇨ Seite 90)	(⇨ Seite 144)	(⇨ Seite 188)	(⇨ Seite 210)
500-500-633	–	(⇨ Seite 91)	(⇨ Seite 145)	(⇨ Seite 189)	(⇨ Seite 211)
500-500-634	–	(⇨ Seite 92)	(⇨ Seite 146)	(⇨ Seite 190)	(⇨ Seite 212)
500-500-635	–	(⇨ Seite 93)	(⇨ Seite 147)	(⇨ Seite 191)	(⇨ Seite 213)
500-500-637	–	(⇨ Seite 94)	(⇨ Seite 148)	(⇨ Seite 192)	(⇨ Seite 214)
600-600-663	–	–	(⇨ Seite 149)	(⇨ Seite 193)	(⇨ Seite 215)
600-600-669	–	–	(⇨ Seite 150)	(⇨ Seite 194)	(⇨ Seite 216)
600-600-710	–	–	(⇨ Seite 151)	(⇨ Seite 195)	(⇨ Seite 217)
600-600-753	–	–	–	(⇨ Seite 196)	(⇨ Seite 218)
600-600-803	–	–	–	(⇨ Seite 197)	(⇨ Seite 219)
600-600-813	–	–	–	(⇨ Seite 198)	(⇨ Seite 220)
600-600-824	–	–	–	(⇨ Seite 199)	(⇨ Seite 221)
600-600-825	–	–	–	(⇨ Seite 200)	(⇨ Seite 222)
600-600-873	–	–	–	–	(⇨ Seite 223)
600-600-923	-	-	-	–	(⇨ Seite 224)
700-700-923	–	–	–	–	(⇨ Seite 225)
700-700-929	–	–	–	–	(⇨ Seite 226)
800-700-953	–	–	–	–	(⇨ Seite 227)
800-700-959	–	–	–	–	(⇨ Seite 228)
800-800-934	–	–	–	–	(⇨ Seite 229)
800-800-935	–	–	–	–	(⇨ Seite 230)
800-800-939	–	–	–	–	(⇨ Seite 231)
800-900-883	–	–	–	–	(⇨ Seite 232)
900-900-1133	–	–	–	–	-
900-900-1134	–	–	–	–	–
900-900-1138	–	–	–	–	–
900-900-1139	–	–	–	–	–

Kennfelder

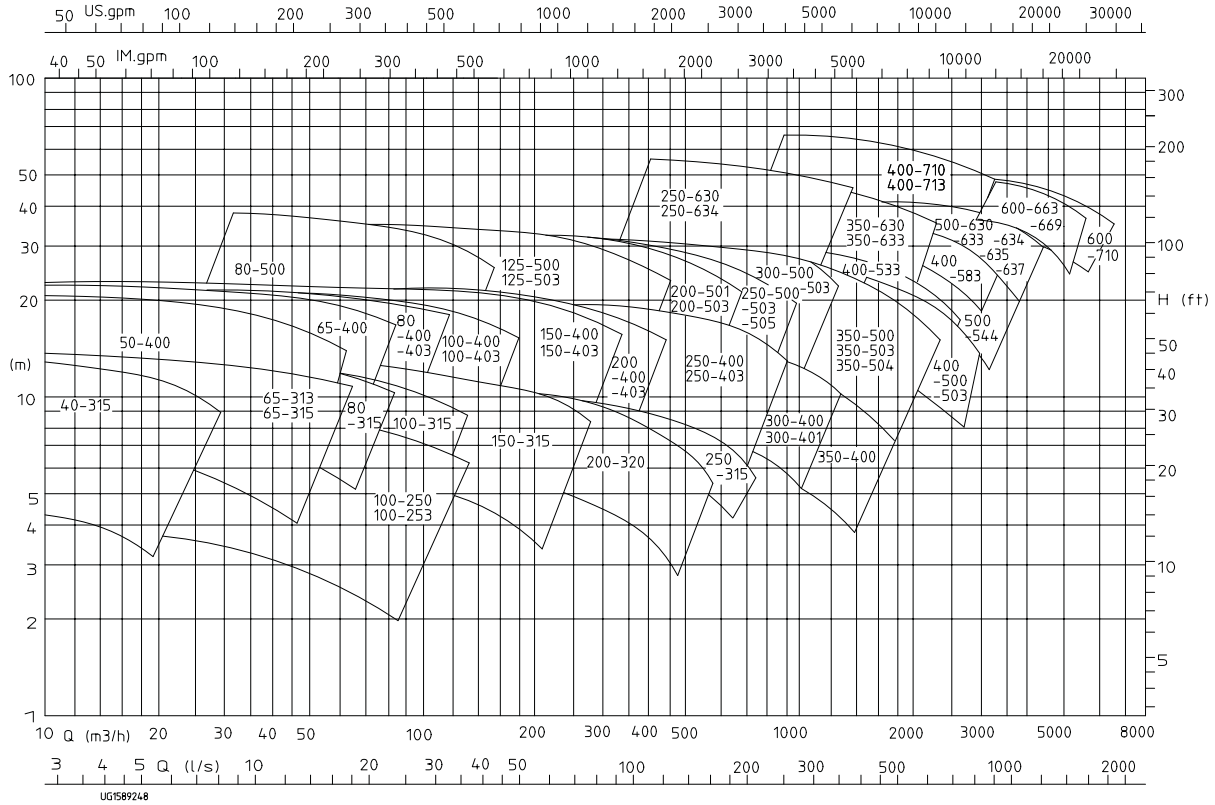
KWP K, n = 1750 min⁻¹



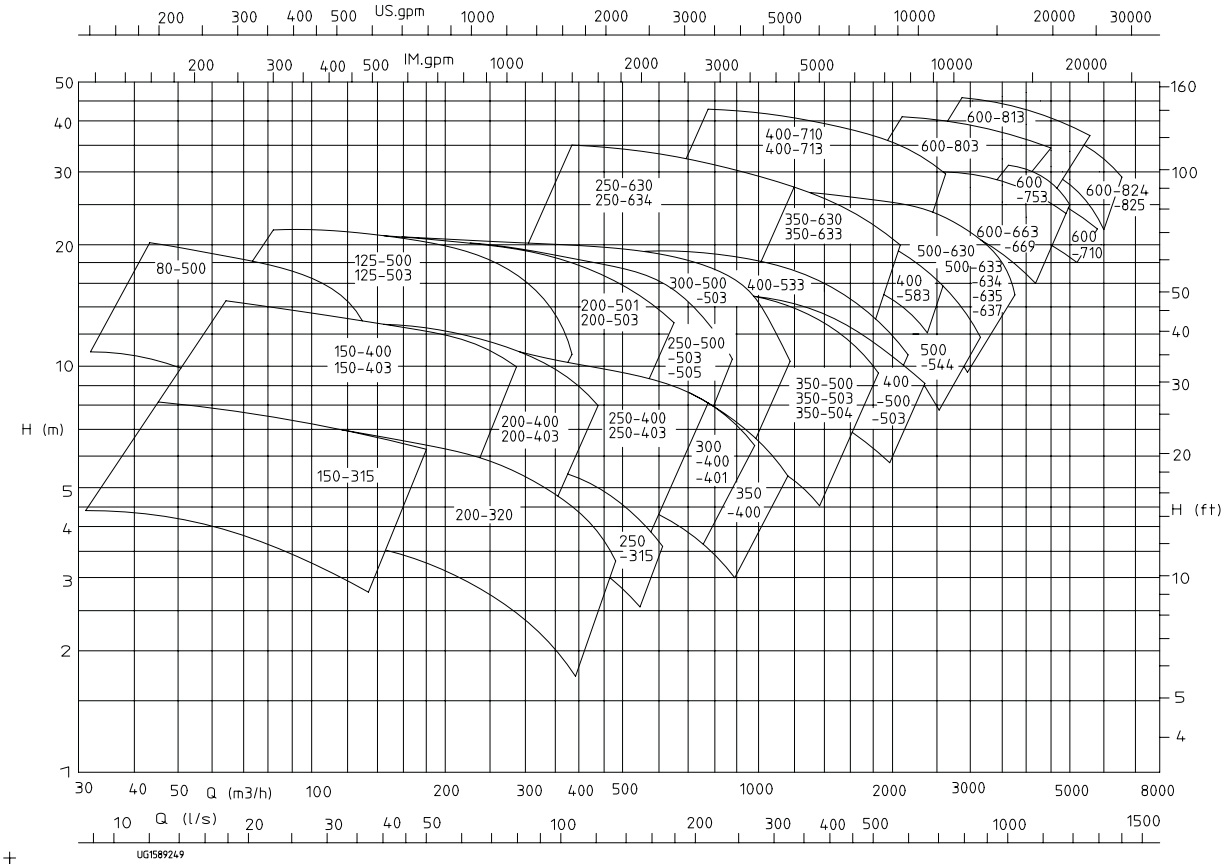
KWP K, n = 1160 min⁻¹



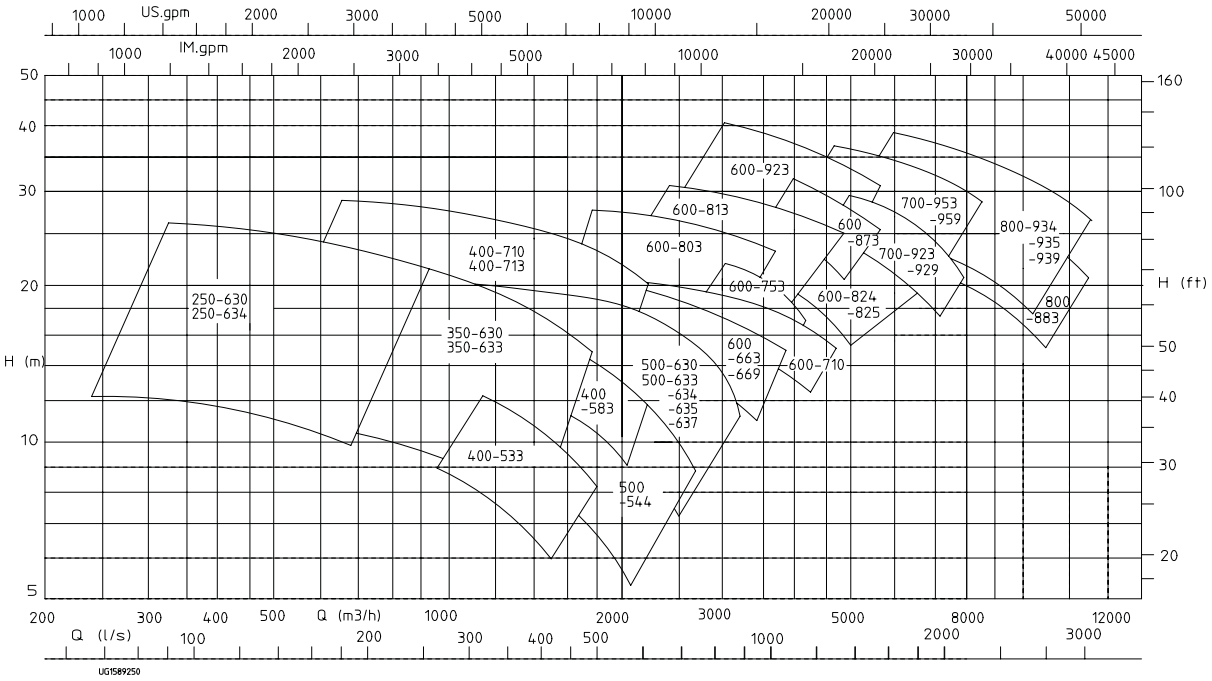
KWP K, n = 875 min⁻¹



KWP K, n = 700 min⁻¹



KWP K, n = 580 min⁻¹

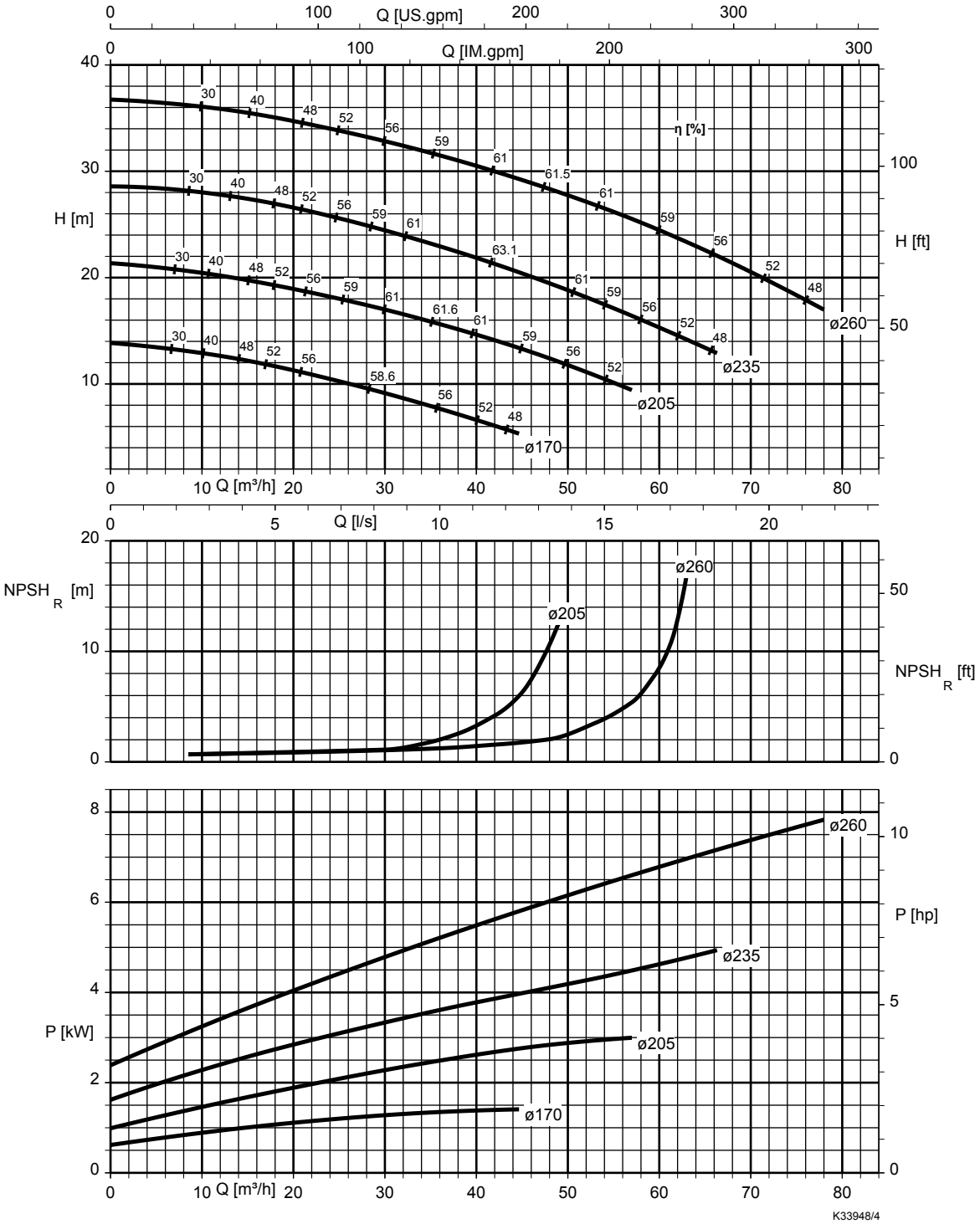


Kennlinien

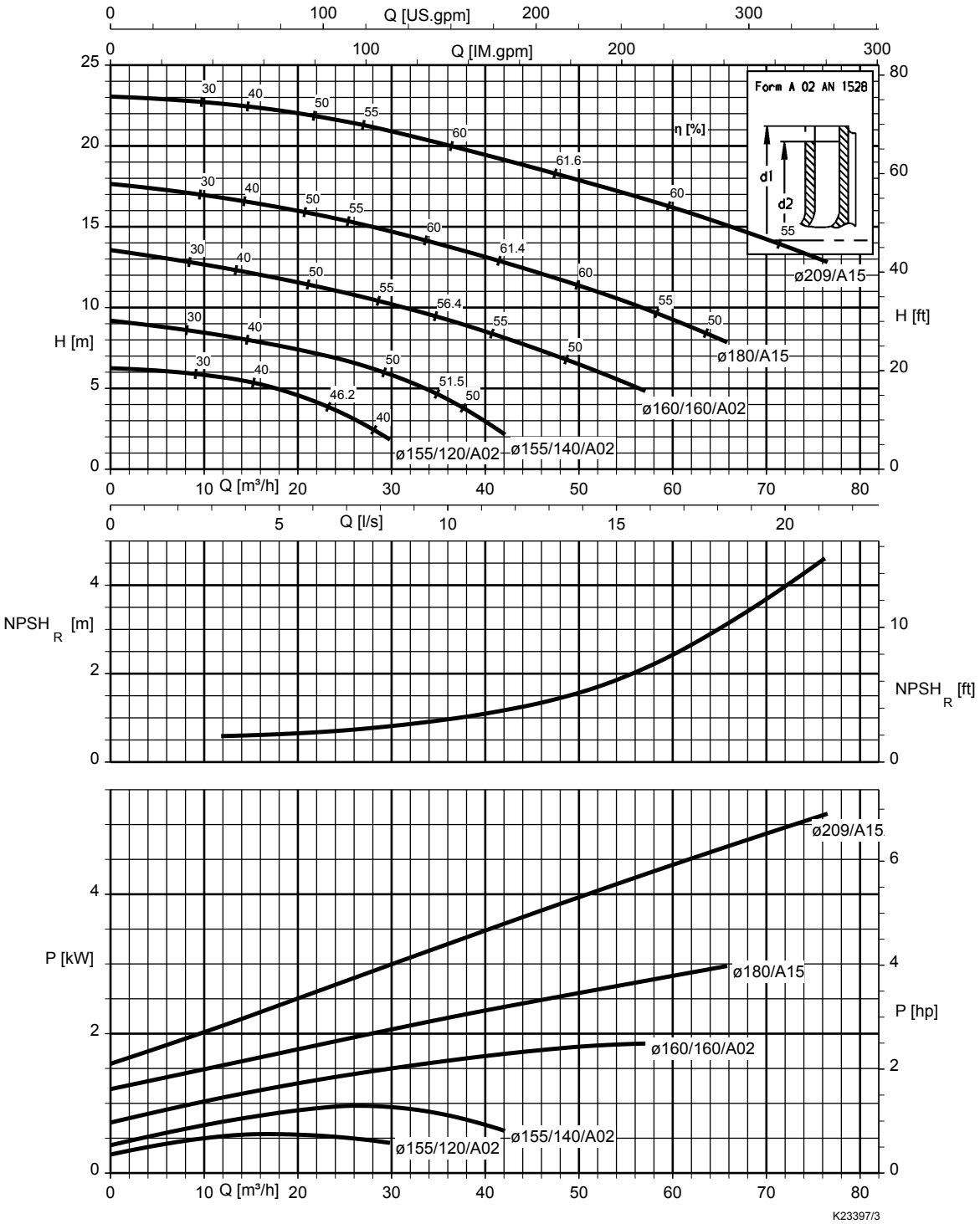
K-Rad

n = 1750 min⁻¹

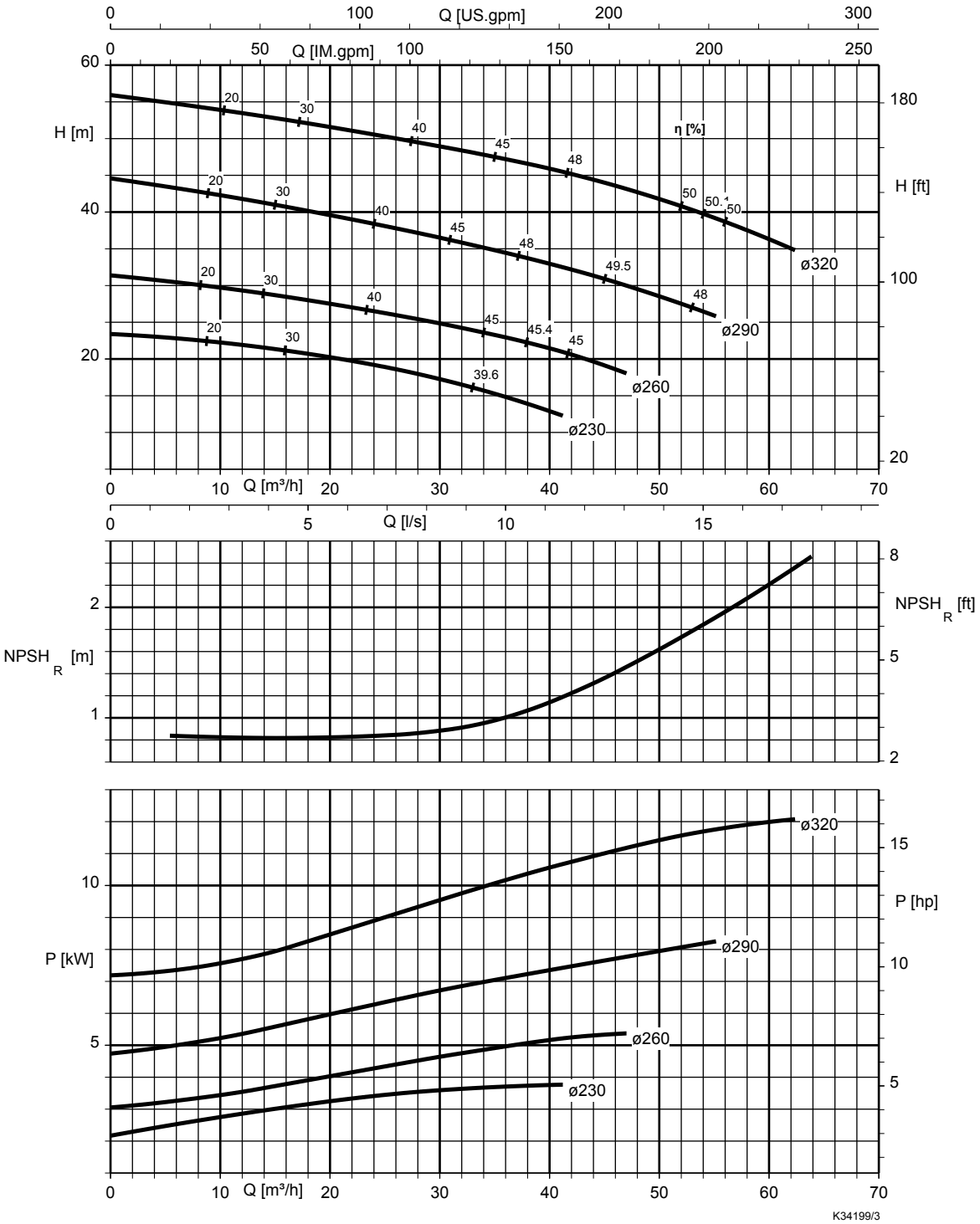
KWP K 065-040-250, n = 1750 min⁻¹



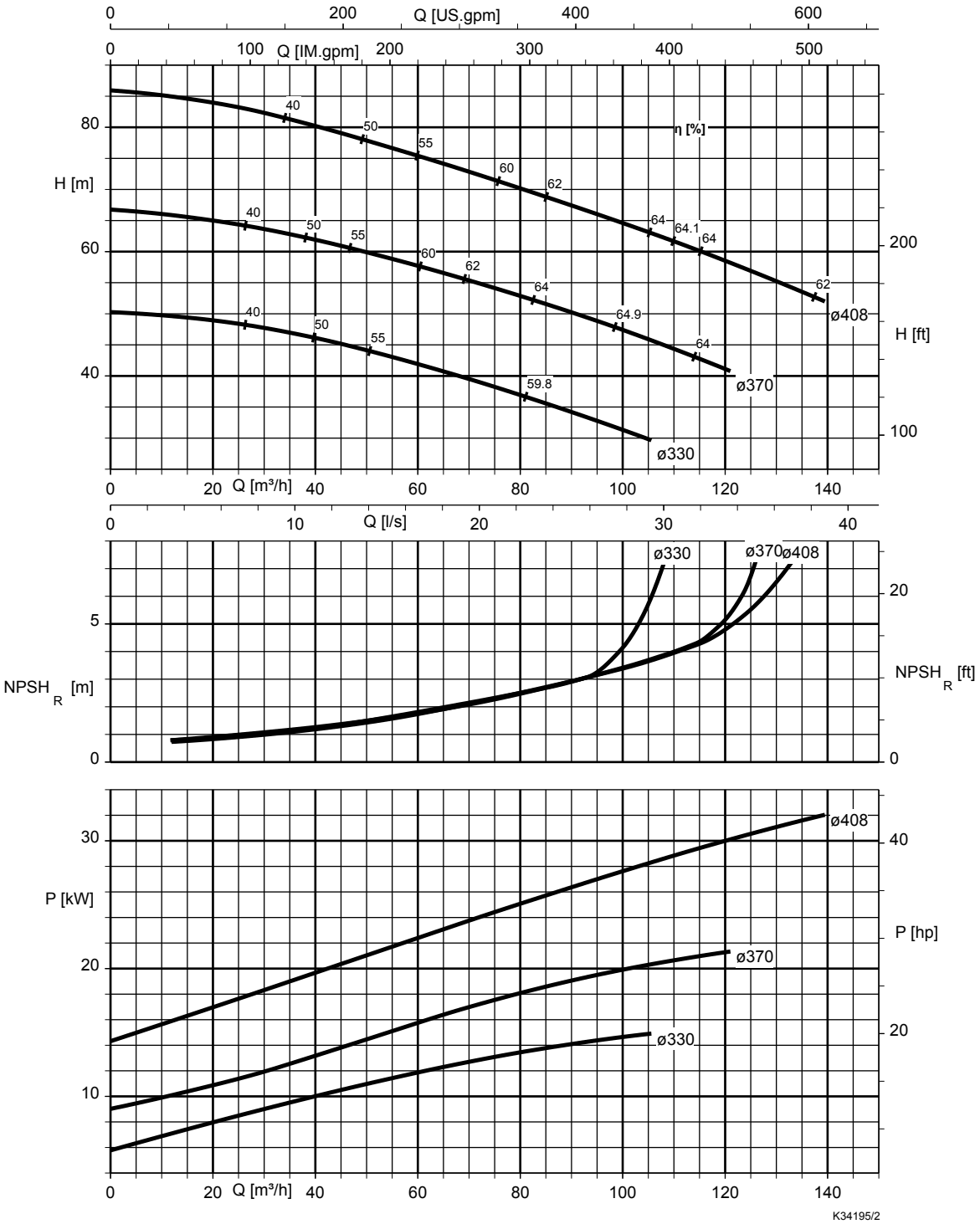
KWP K 065-050-200, n = 1750 min⁻¹



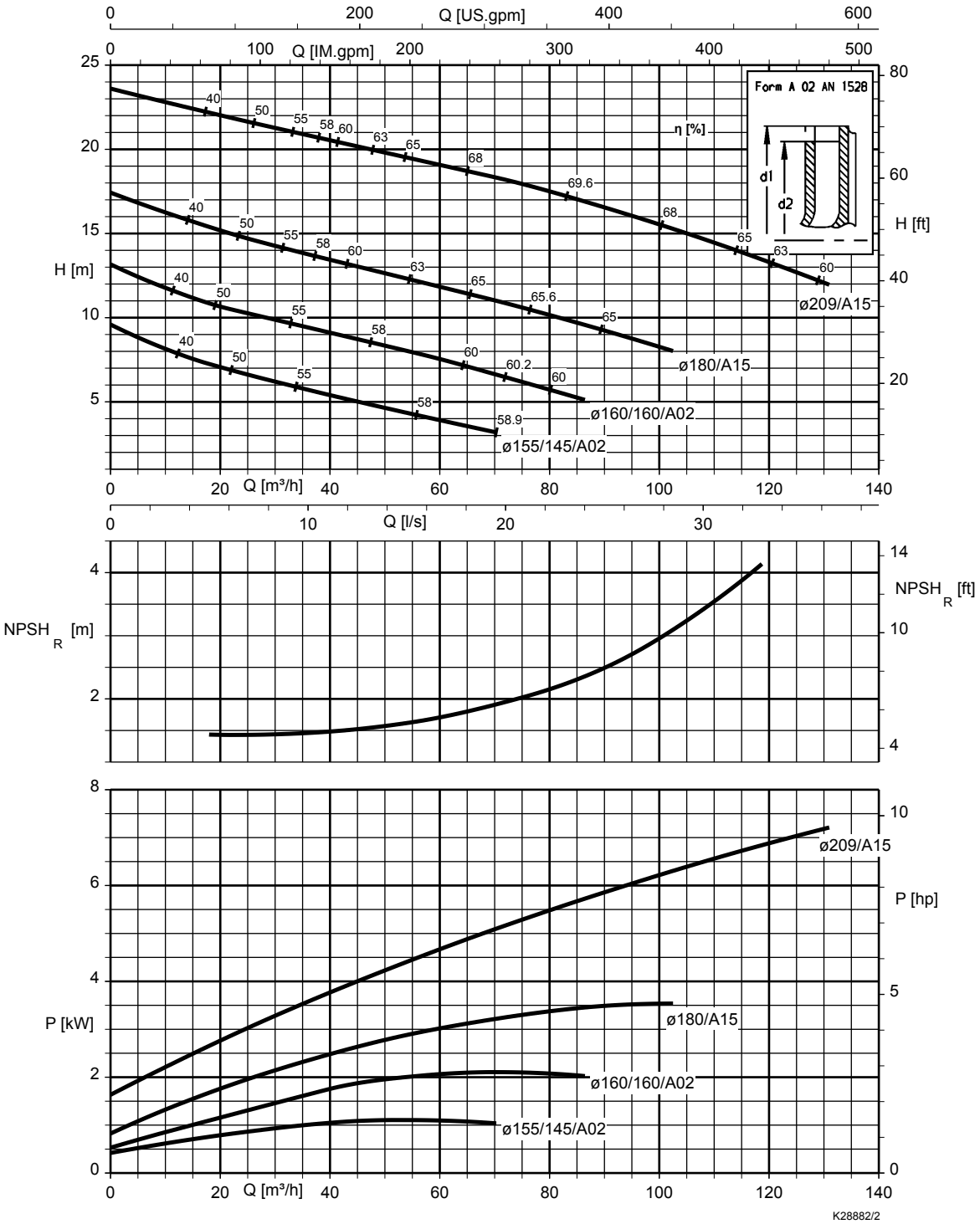
KWP K 080-040-315, n = 1750 min⁻¹



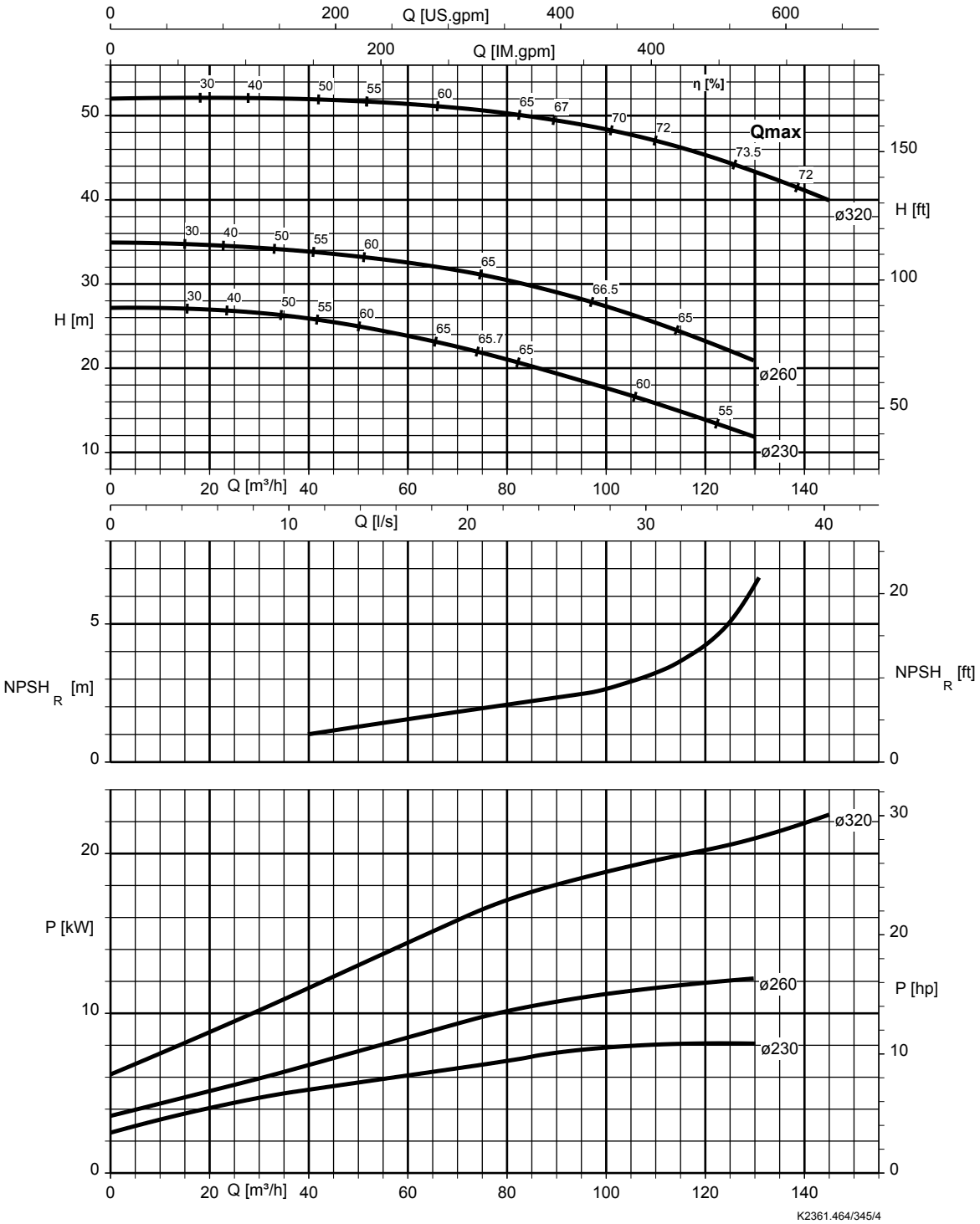
KWP K 080-050-400, n = 1750 min⁻¹



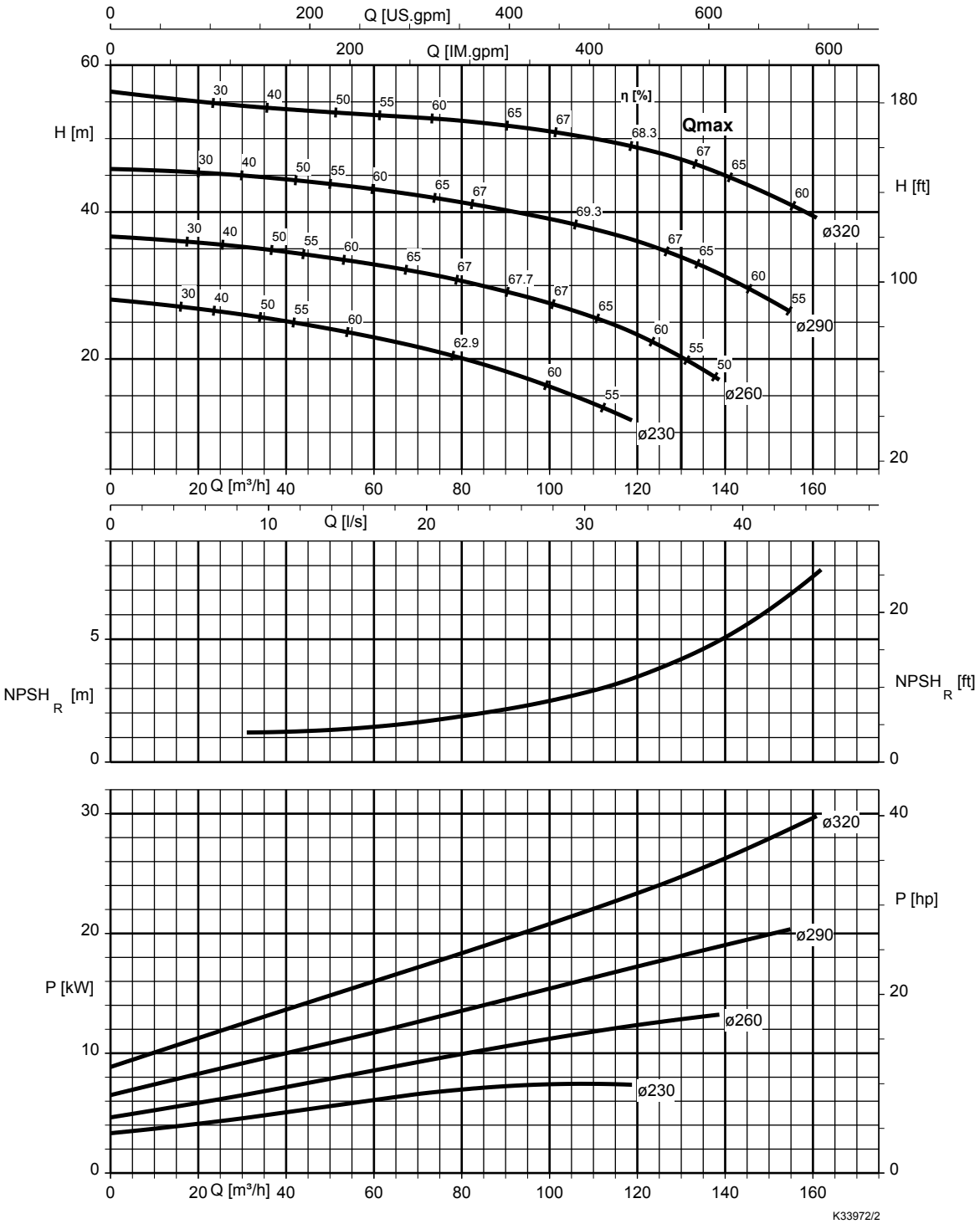
KWP K 080-065-200, n = 1750 min⁻¹



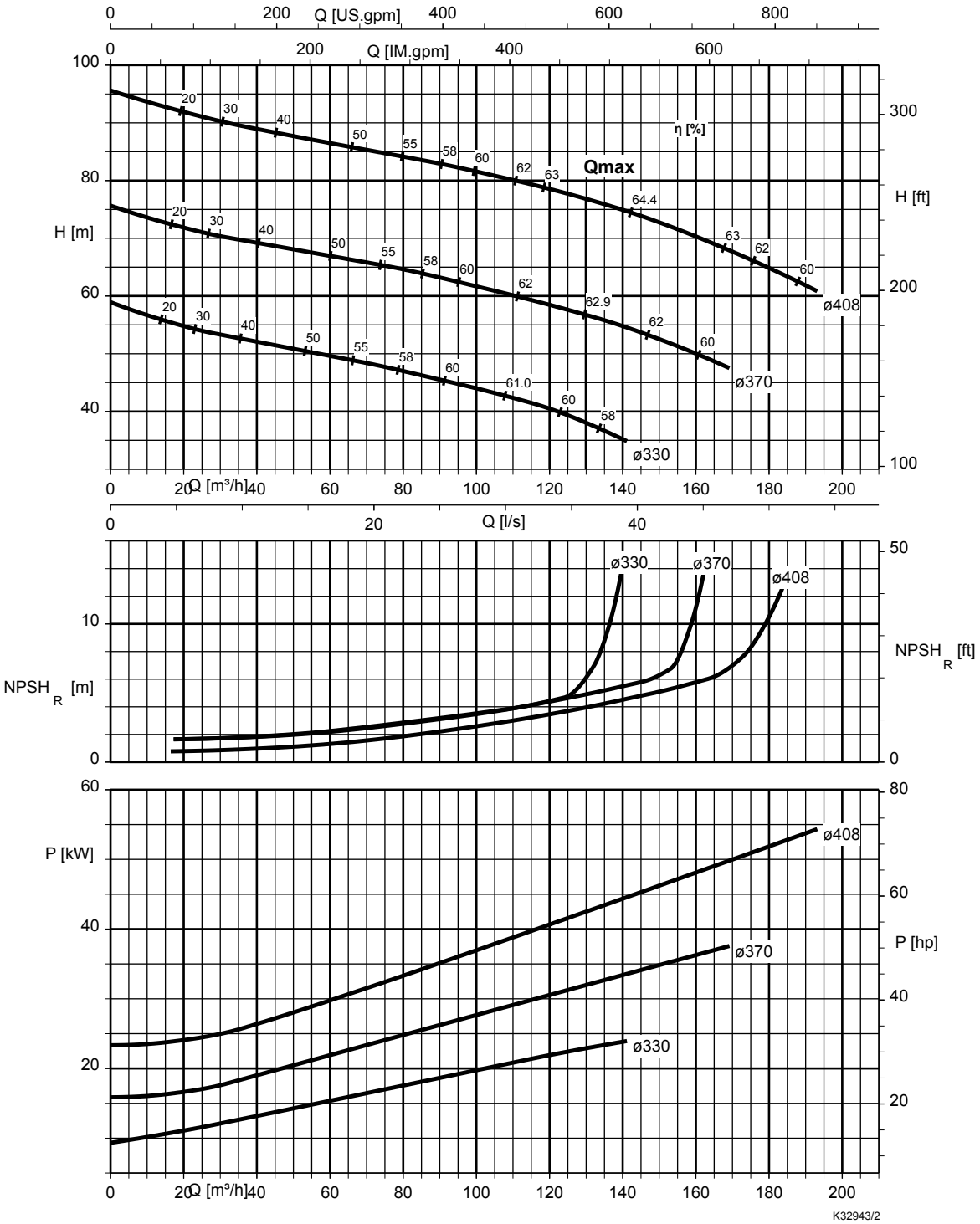
KWP K 080-065-313, n = 1750 min⁻¹



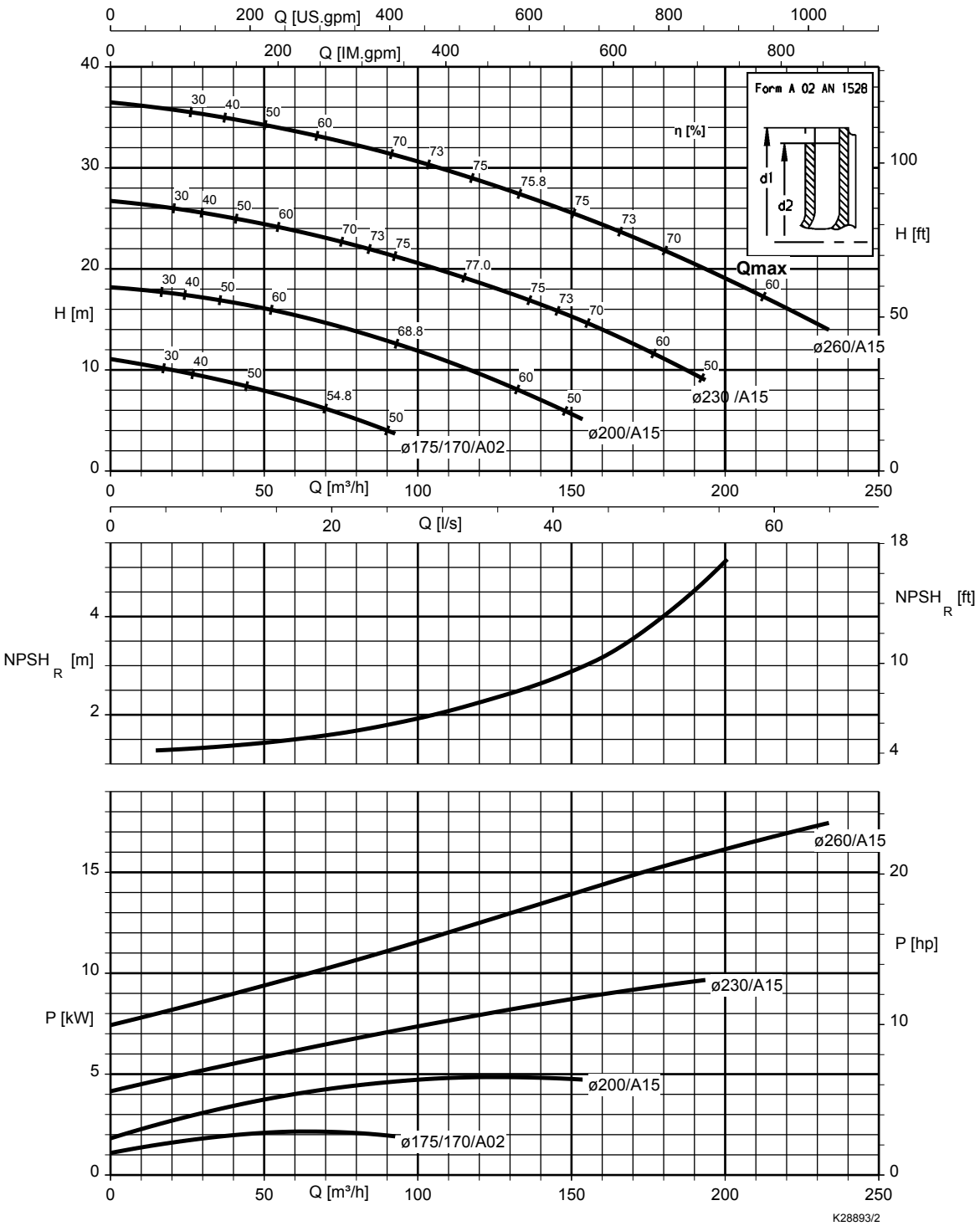
KWP K 080-065-315, n = 1750 min⁻¹



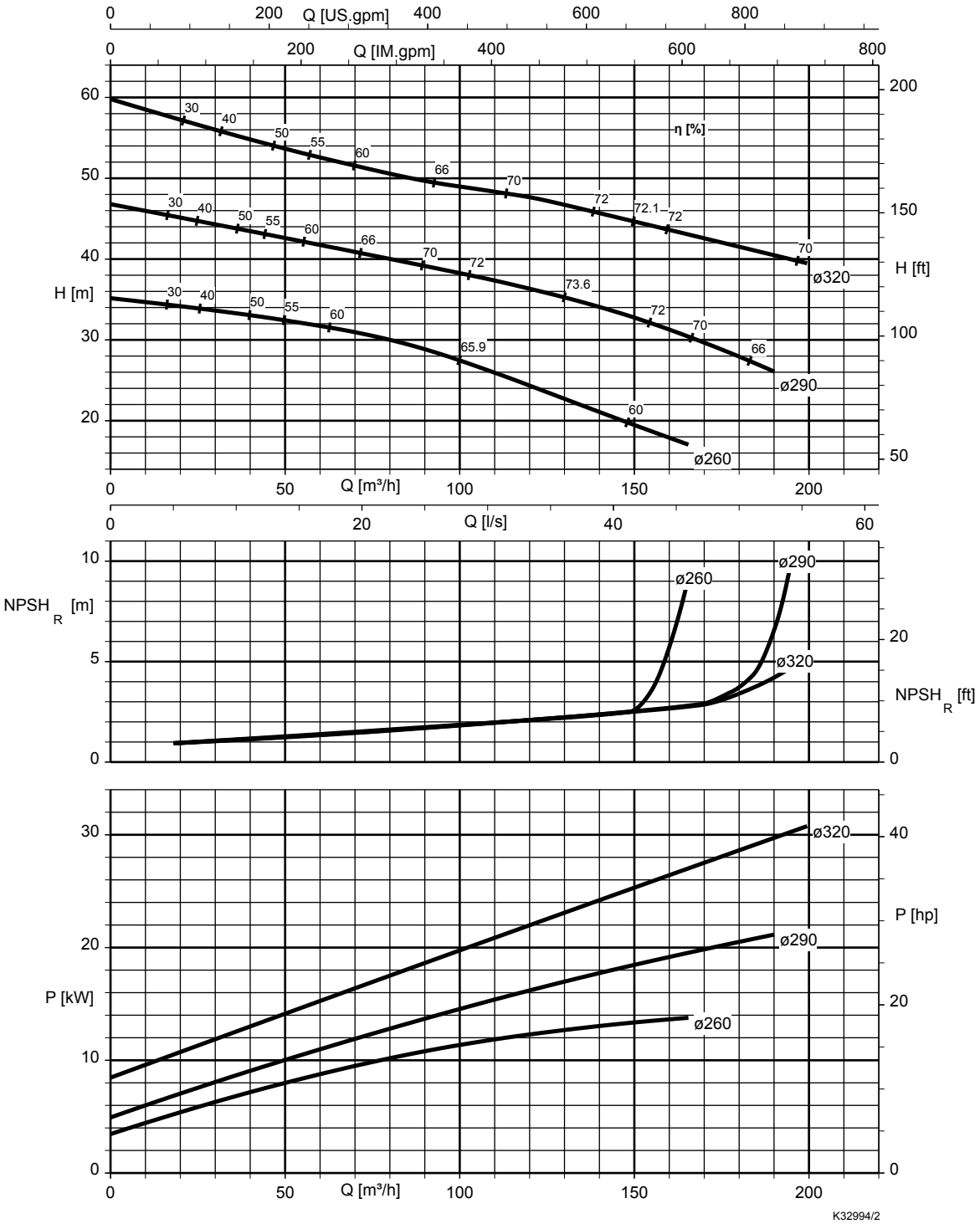
KWP K 080-065-400, n = 1750 min⁻¹



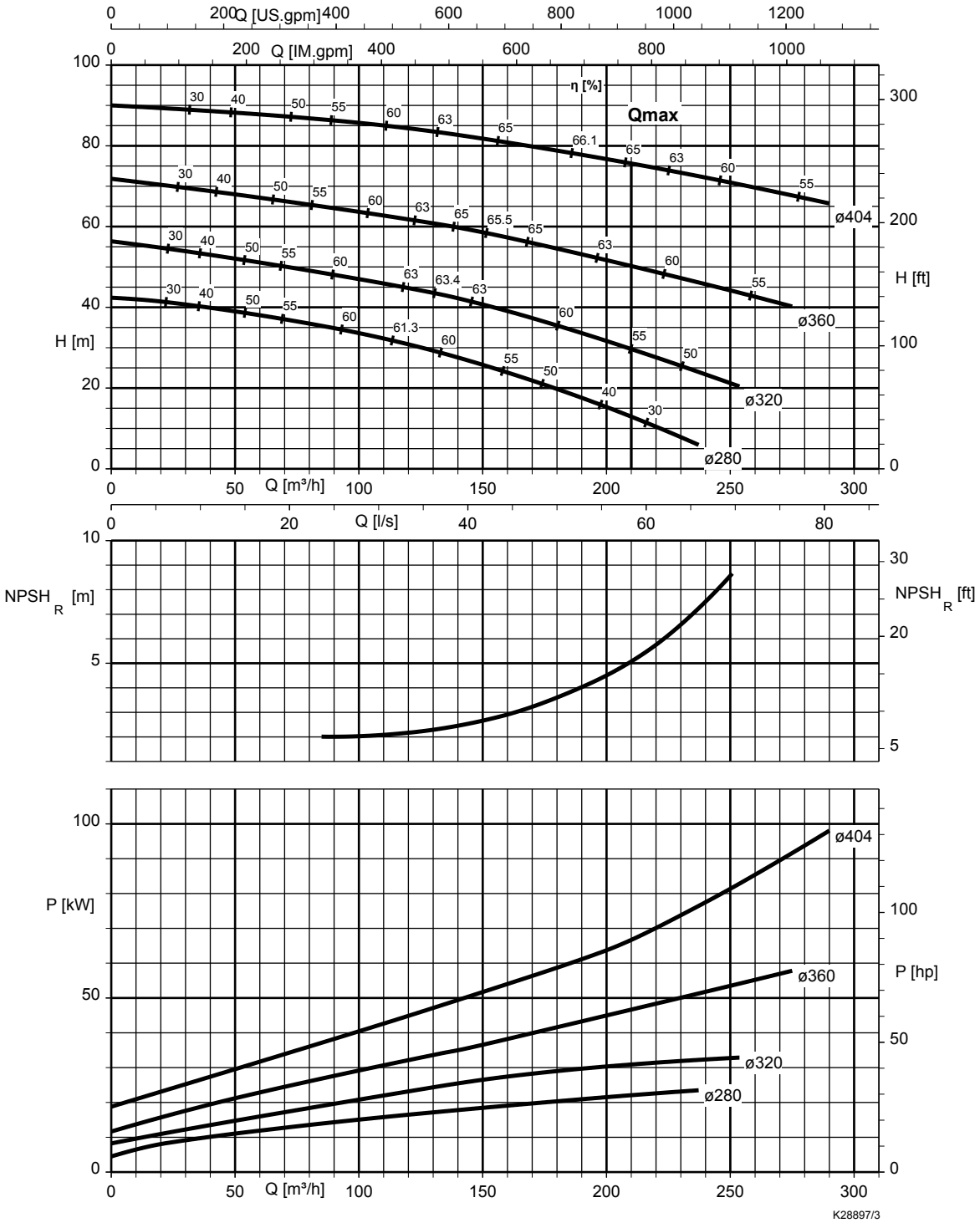
KWP K 100-080-250, n = 1750 min⁻¹



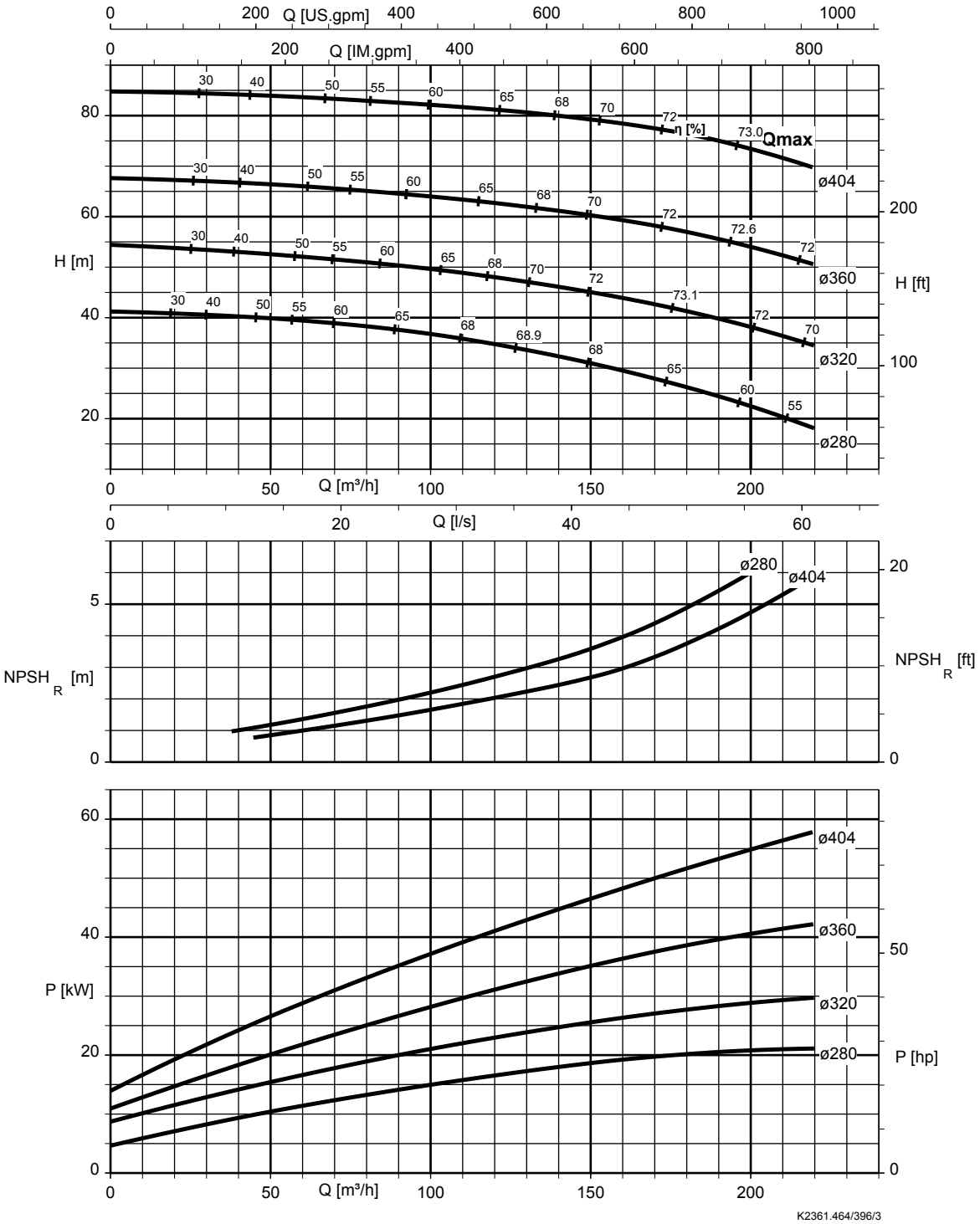
KWP K 100-080-315, n = 1750 min⁻¹



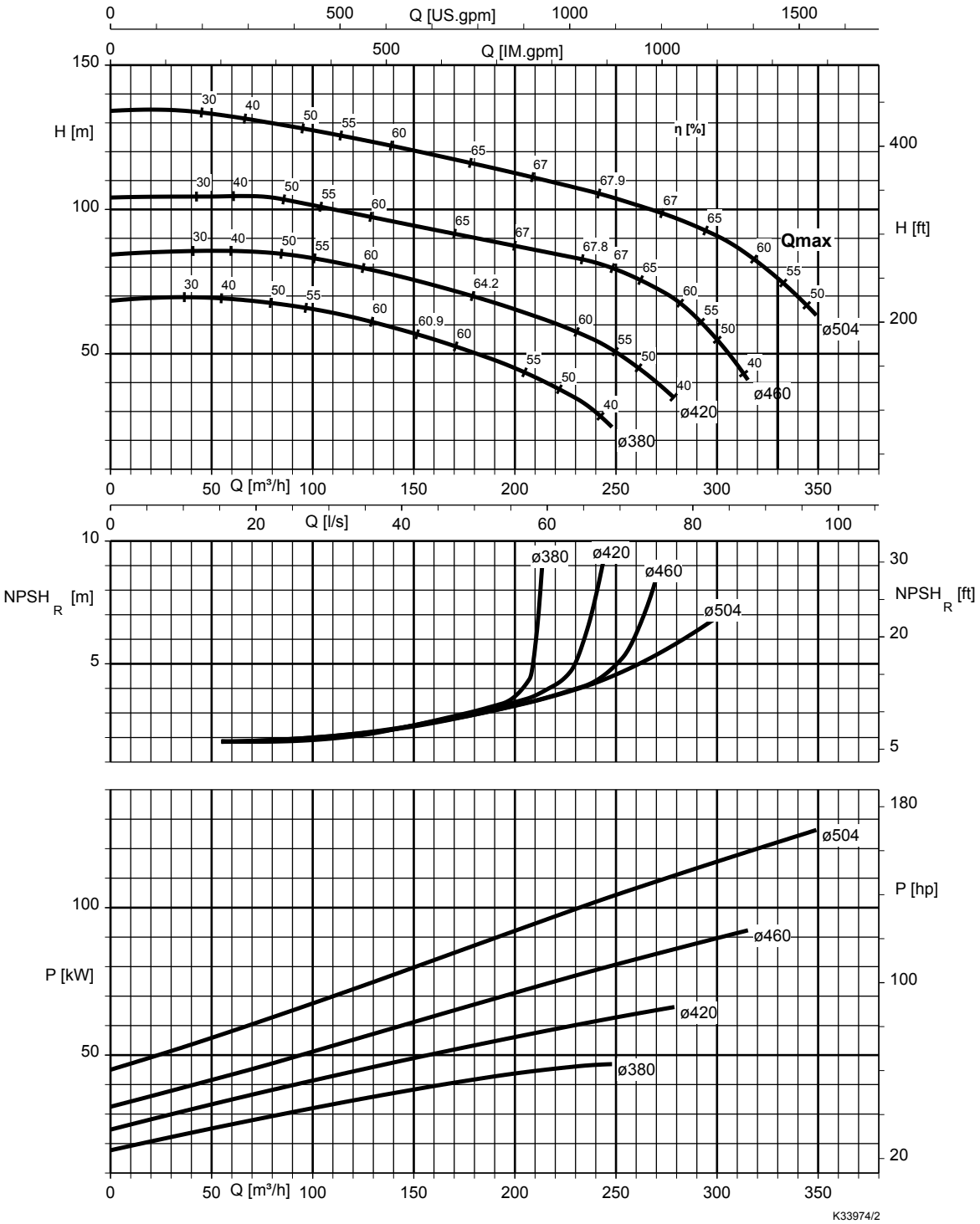
KWP K 100-080-400, n = 1750 min⁻¹



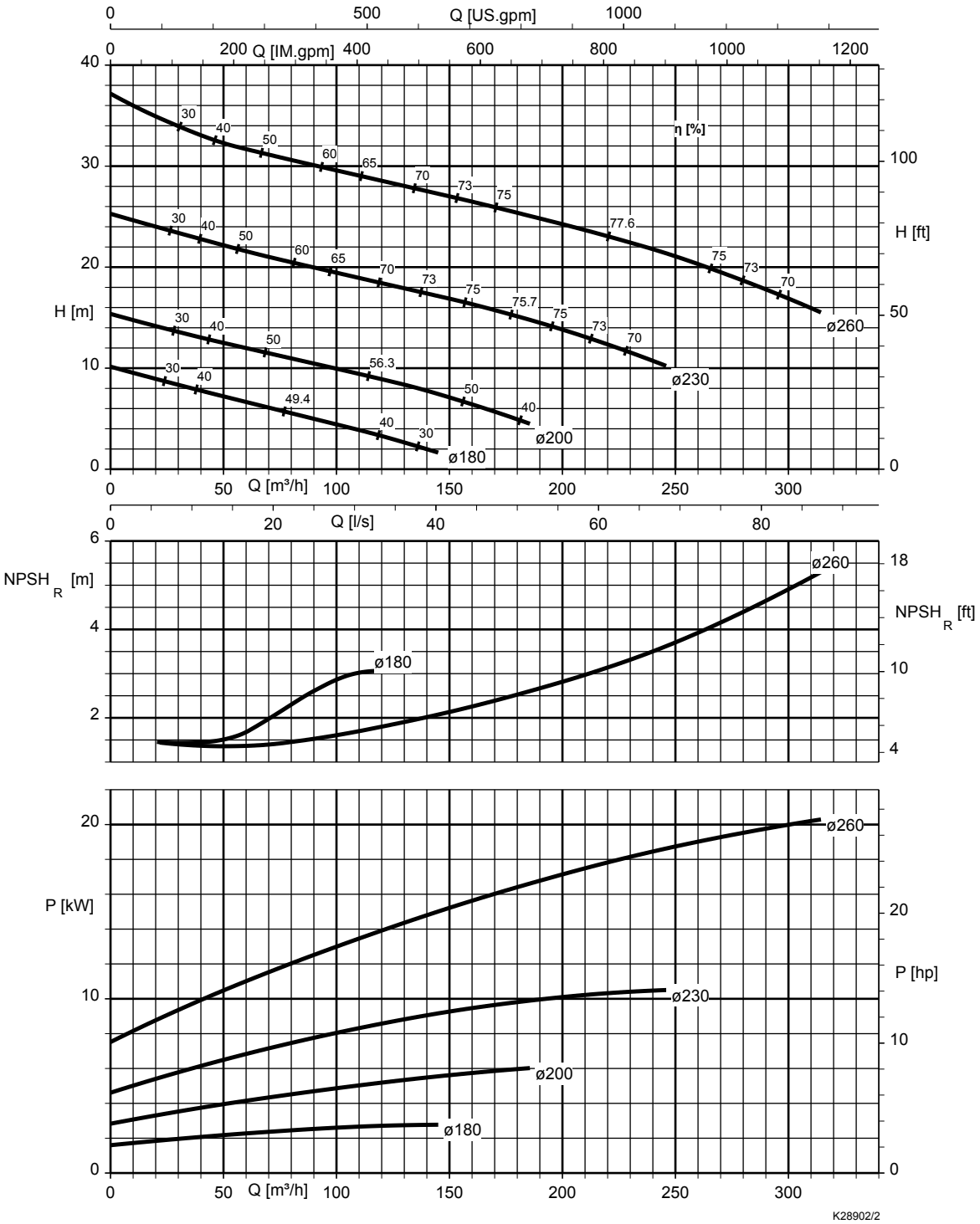
KWP K 100-080-403, n = 1750 min⁻¹



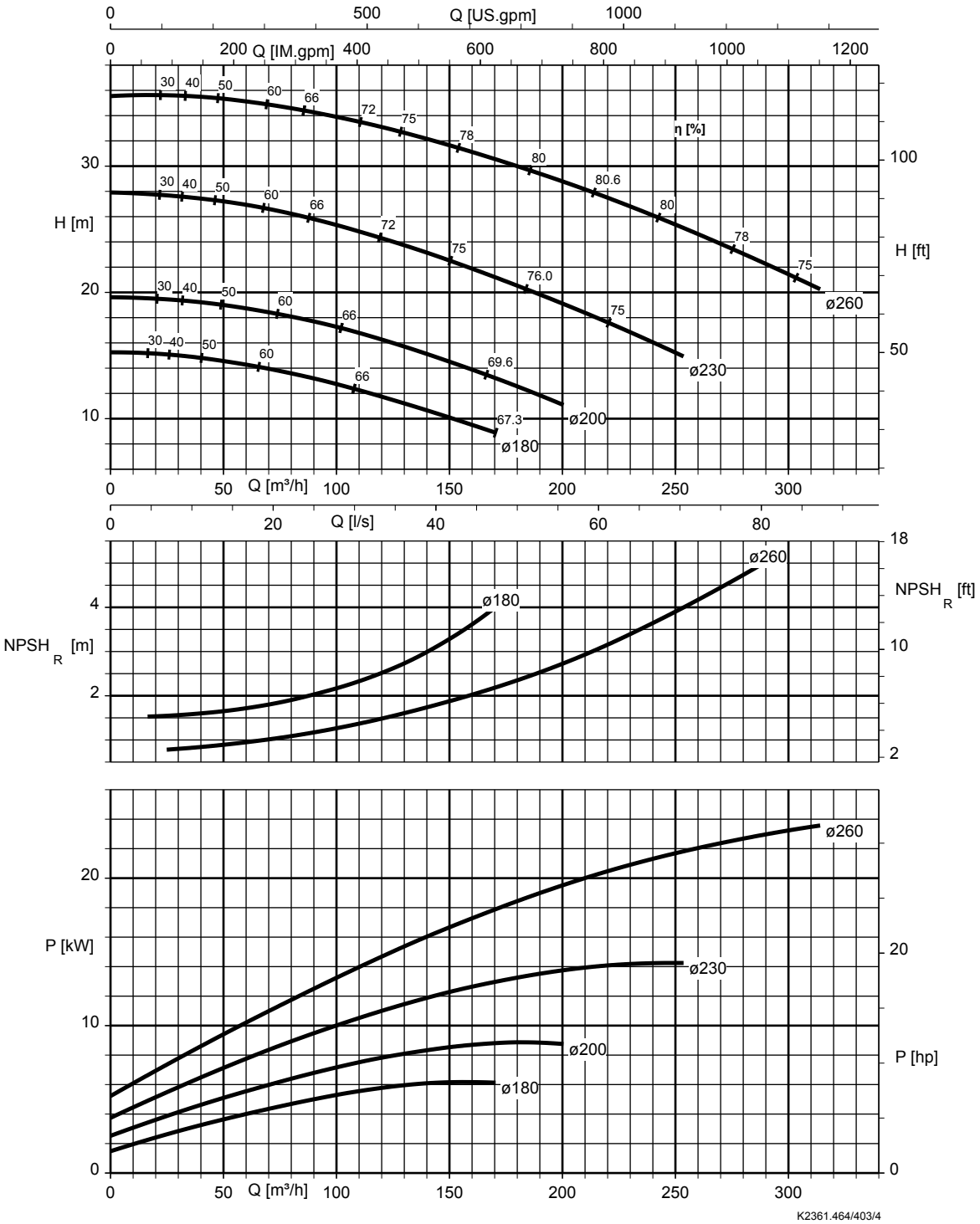
KWP K 125-080-500, n = 1750 min⁻¹



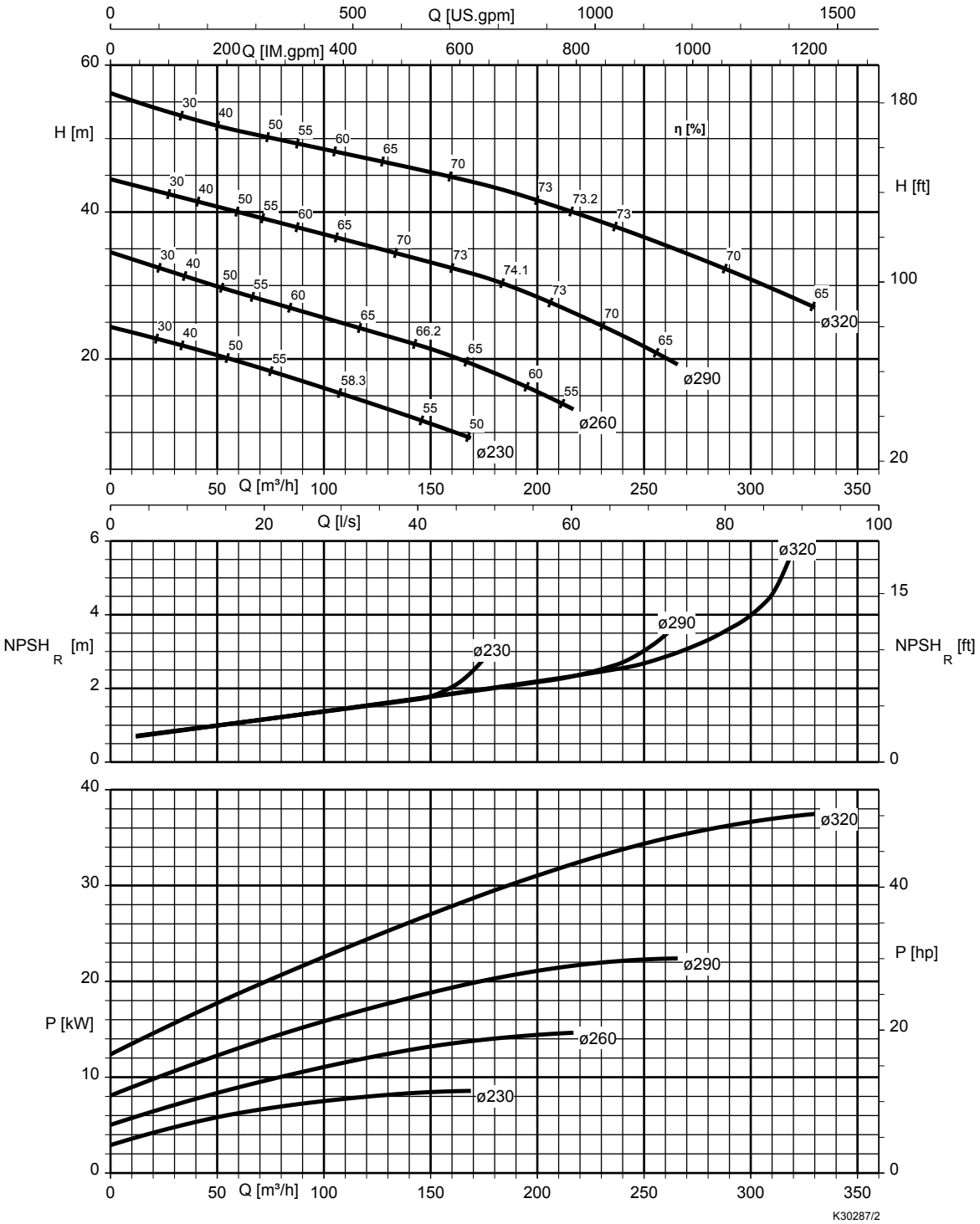
KWP K 125-100-250, n = 1750 min⁻¹



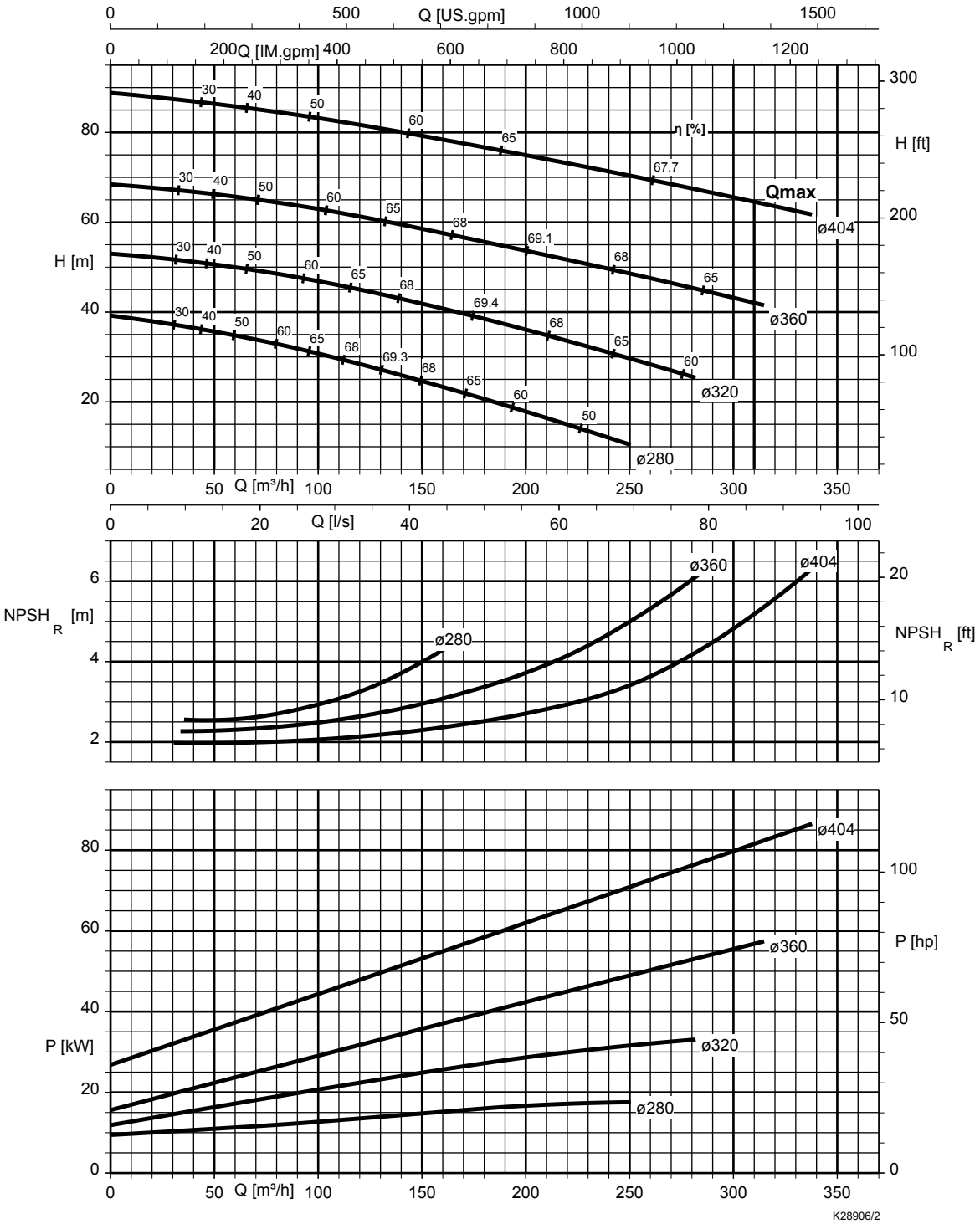
KWP K 125-100-253, n = 1750 min⁻¹



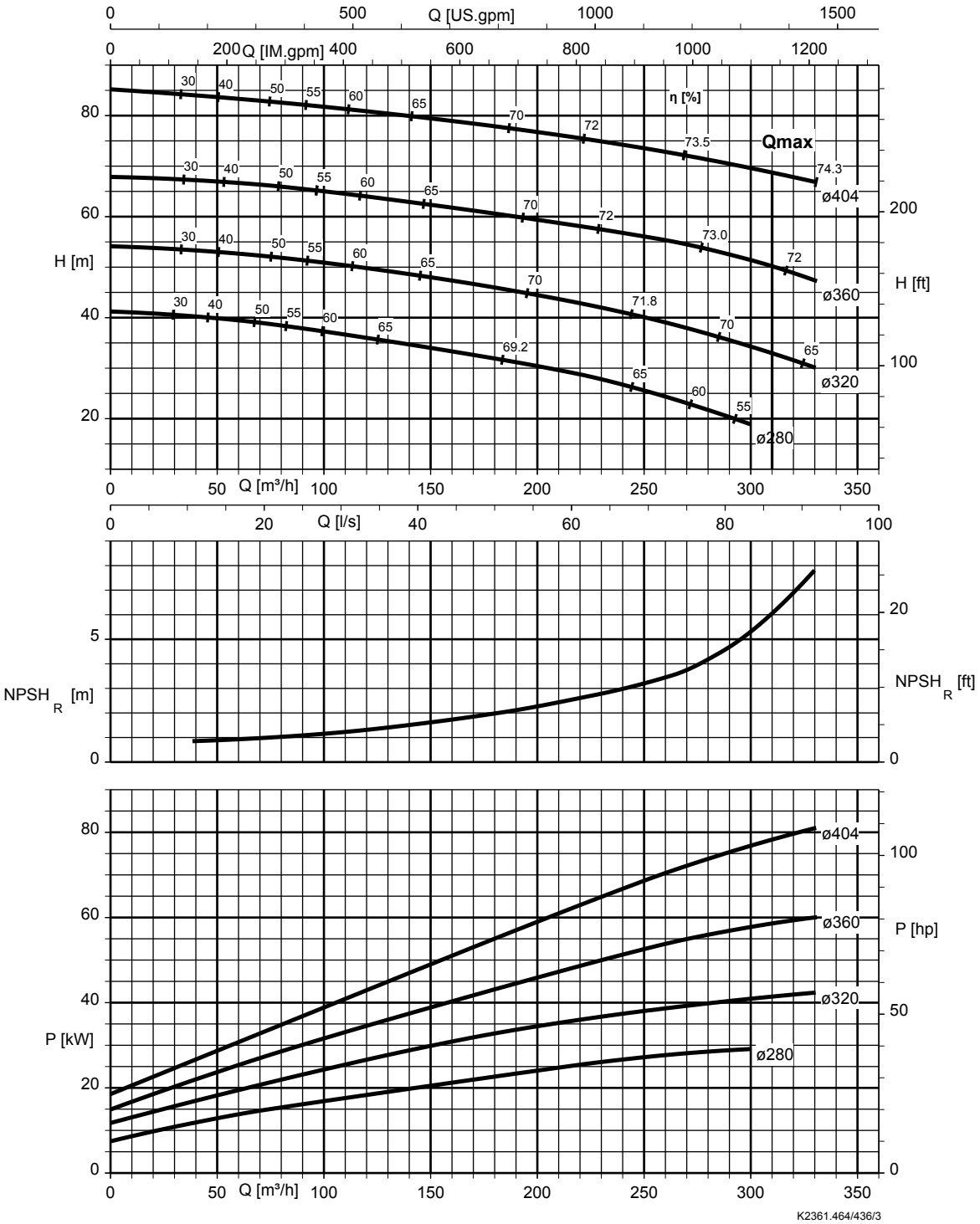
KWP K 125-100-315, n = 1750 min⁻¹



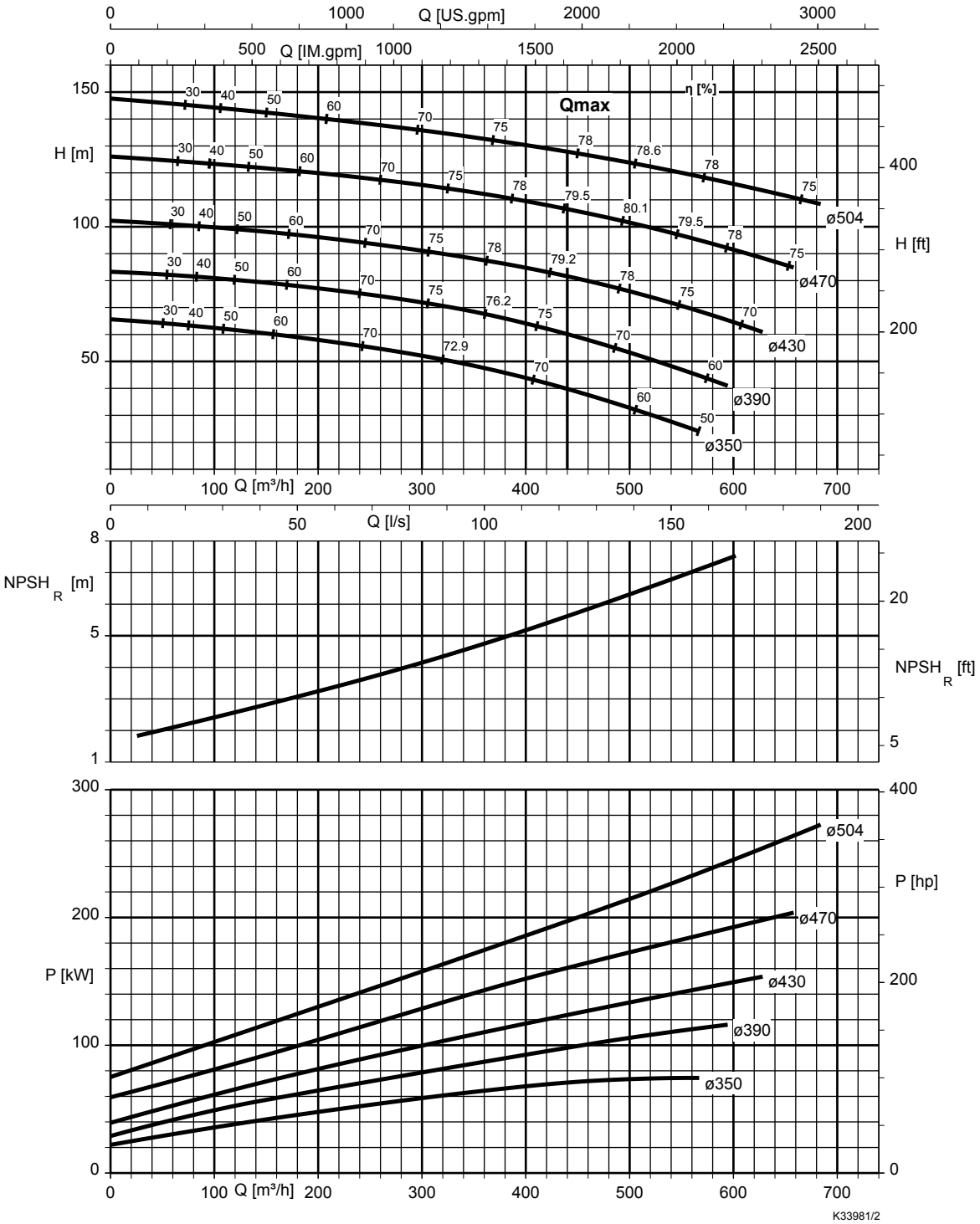
KWP K 125-100-400, n = 1750 min⁻¹



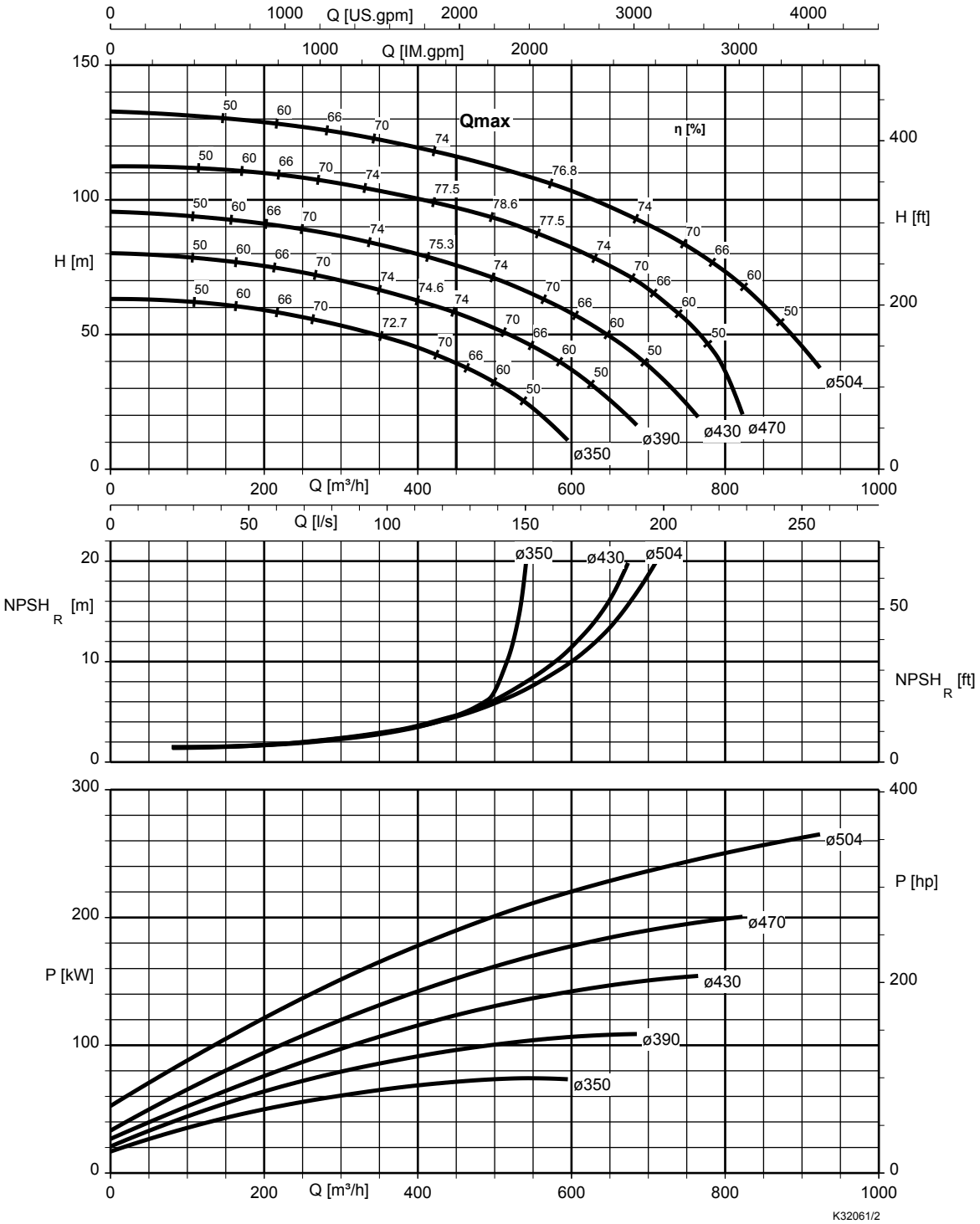
KWP K 125-100-403, n = 1750 min⁻¹



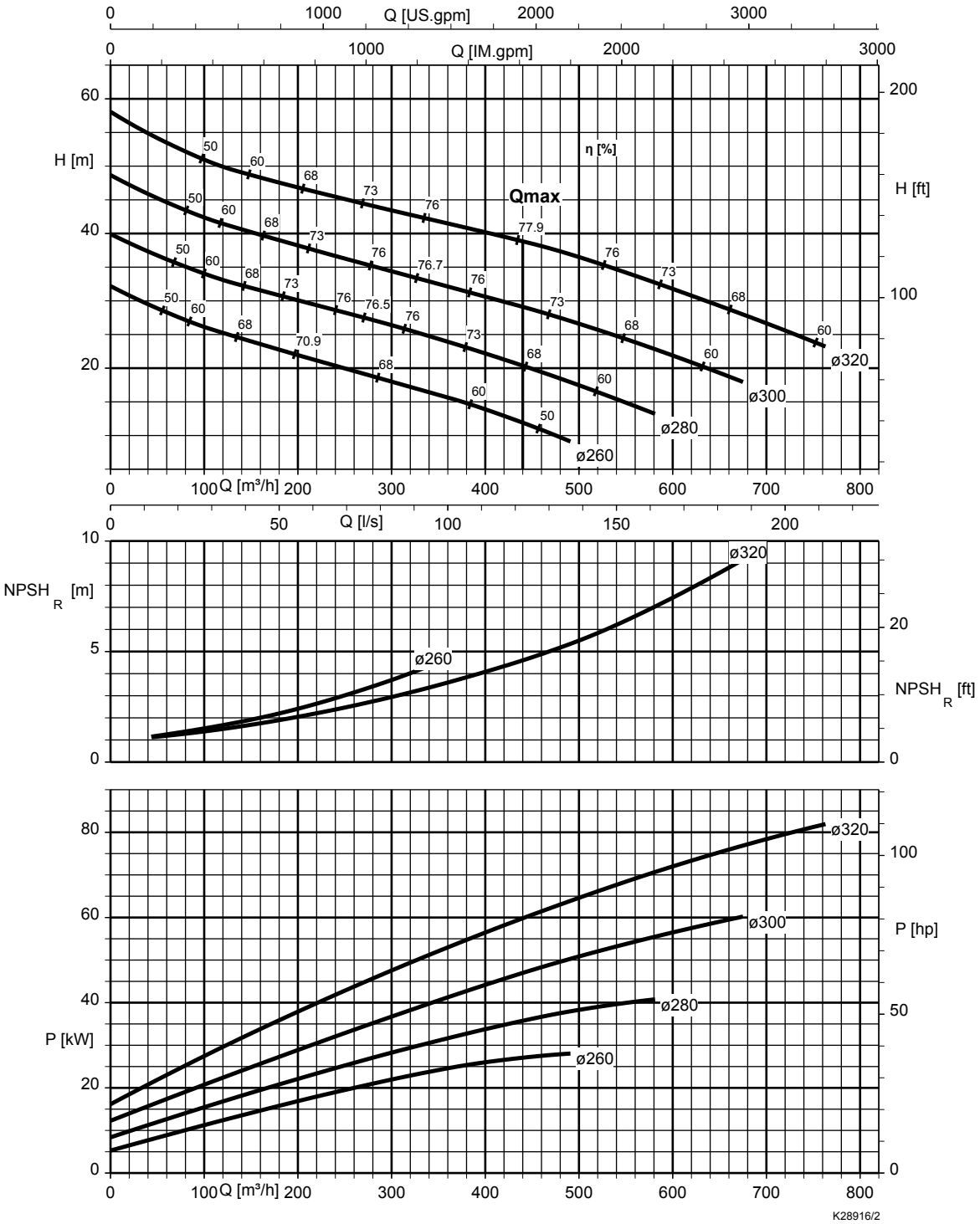
KWP K 150-125-500, n = 1750 min⁻¹



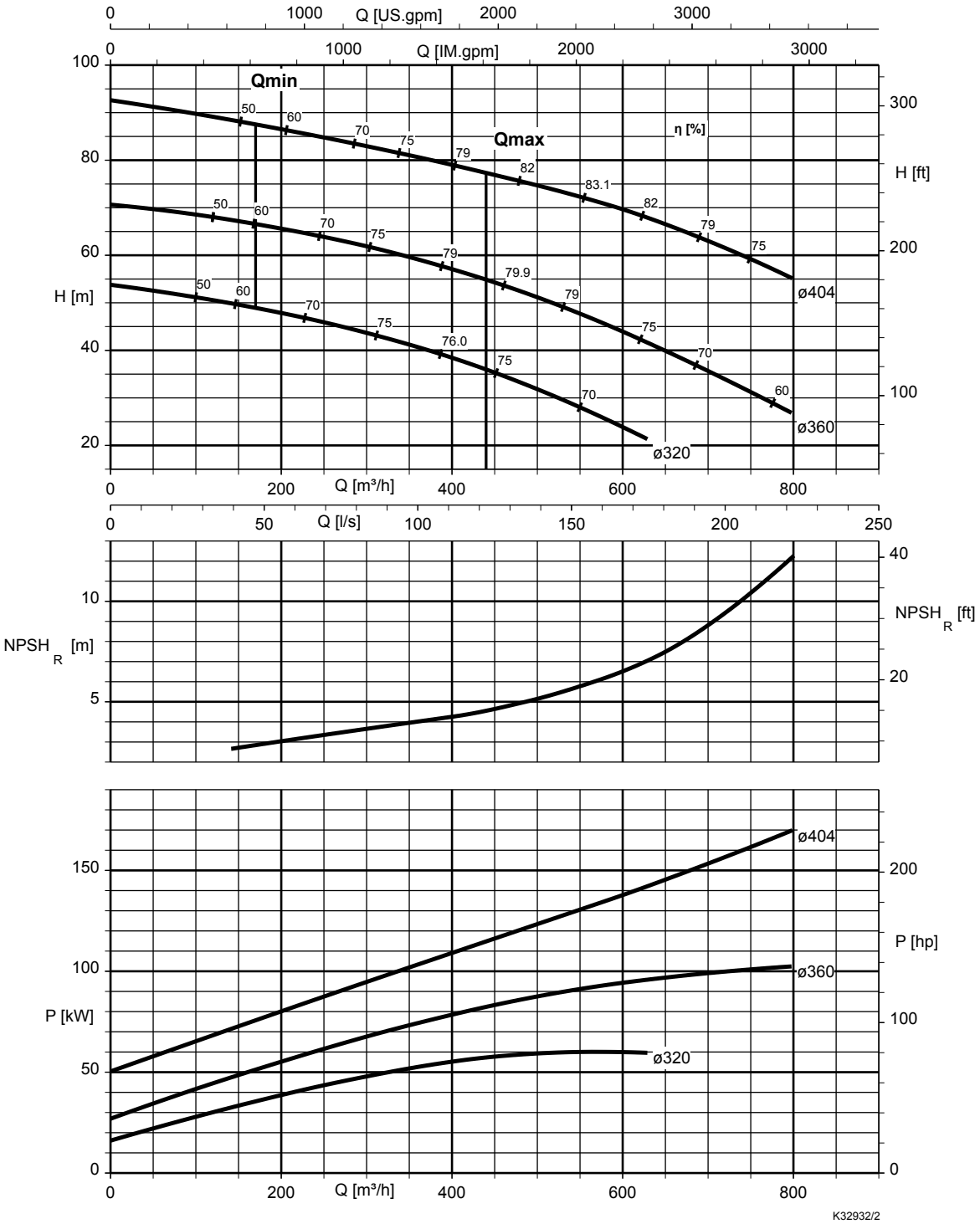
KWP K 150-125-503, n = 1750 min⁻¹



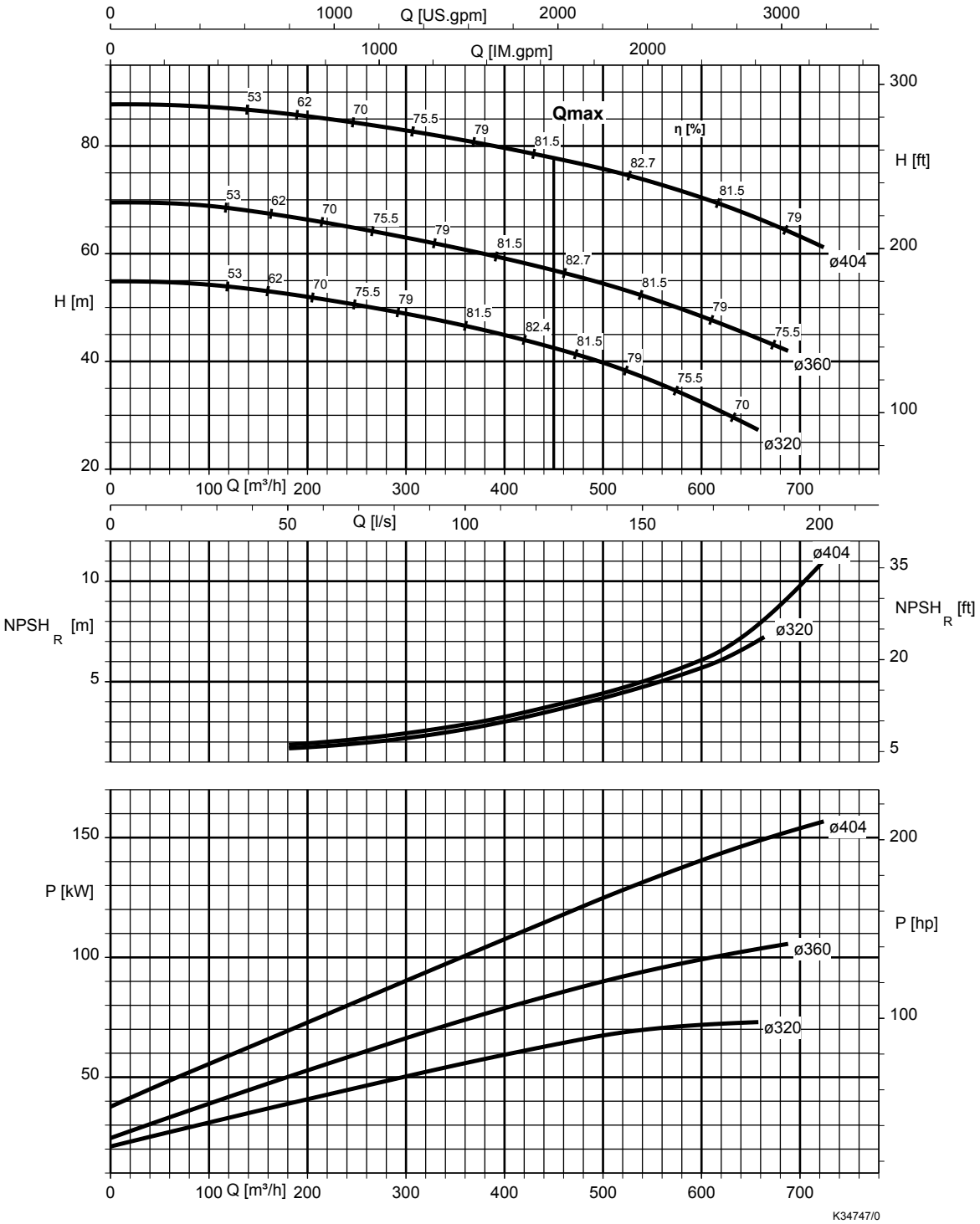
KWP K 150-150-315, n = 1750 min⁻¹



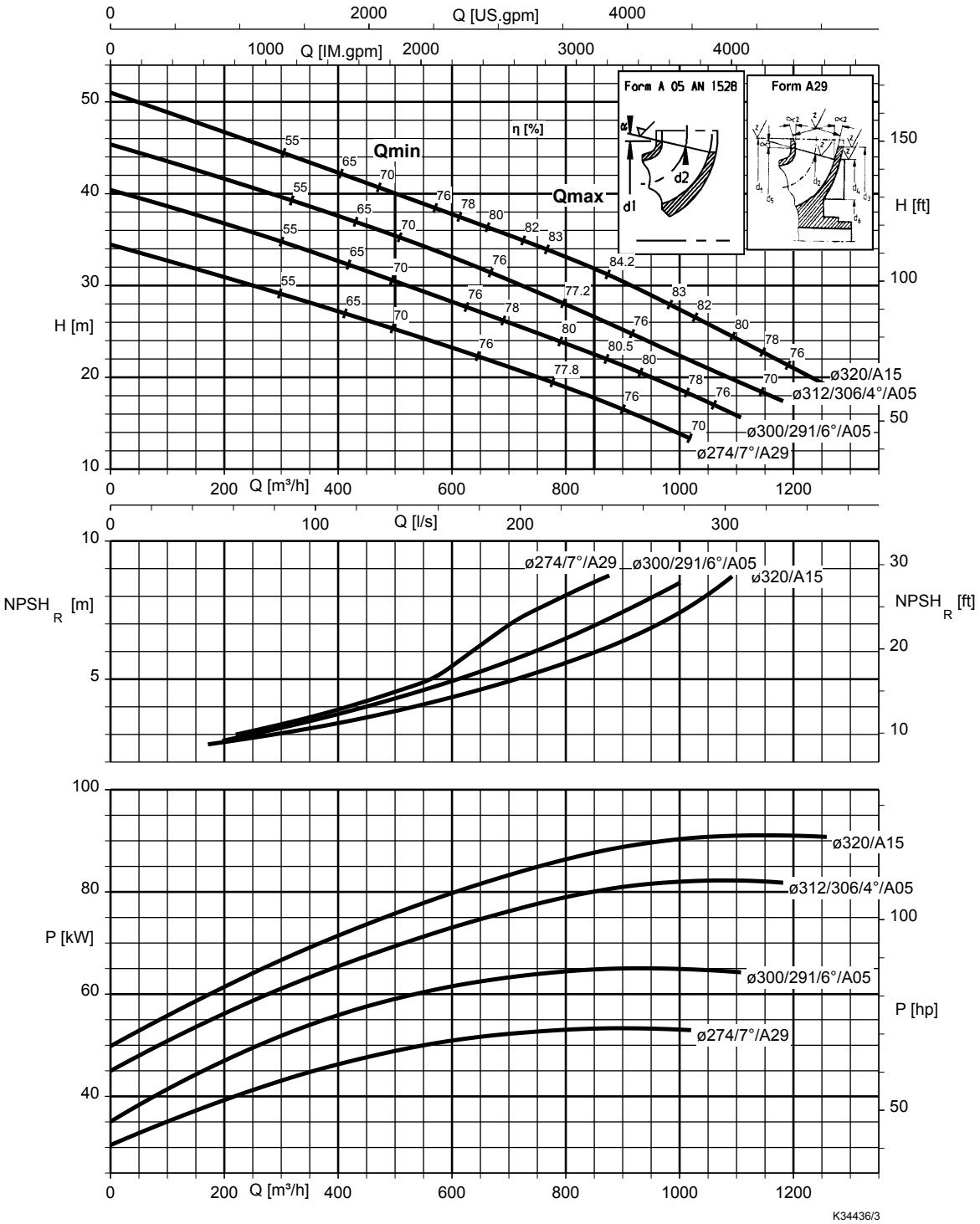
KWP K 150-150-400, n = 1750 min⁻¹



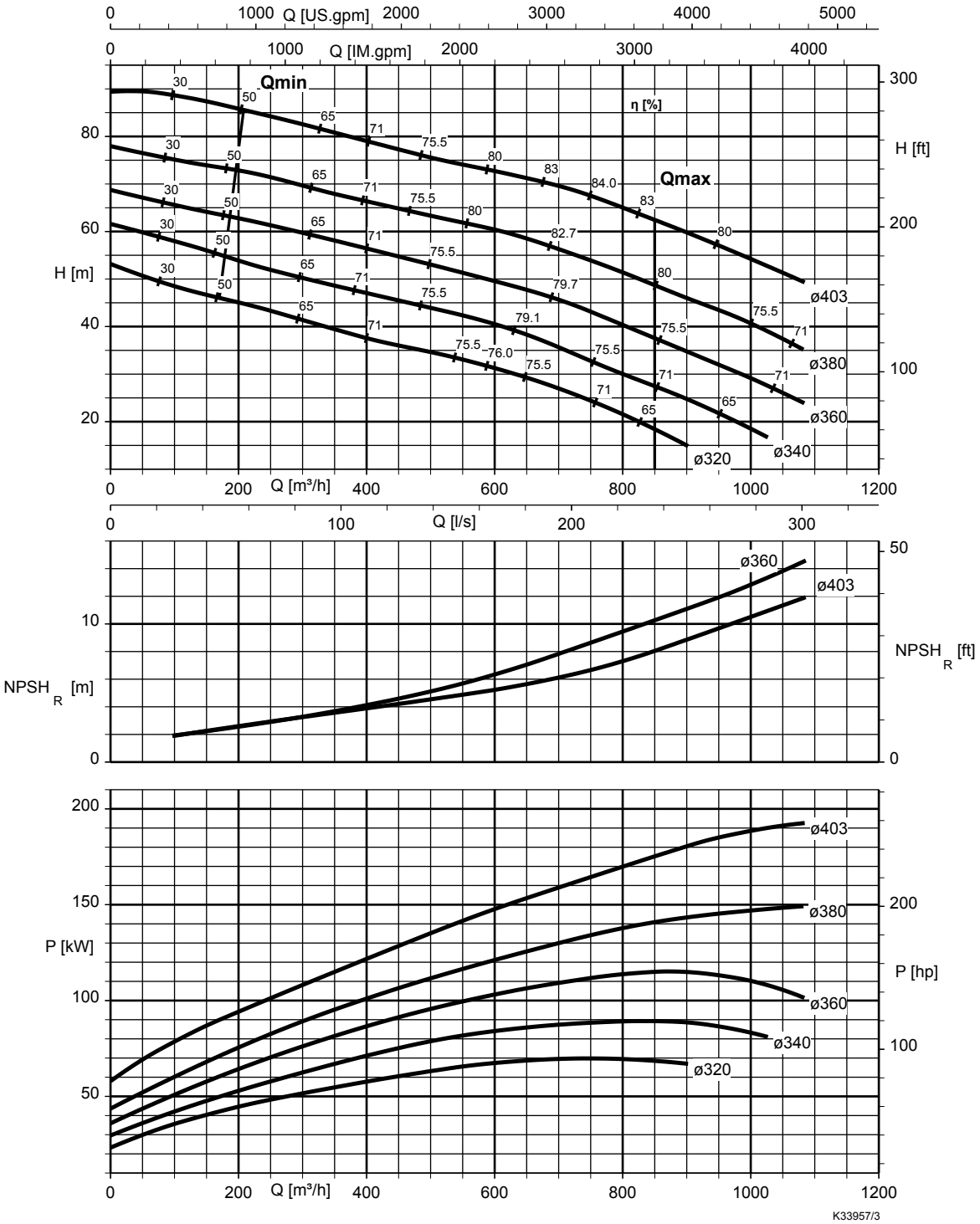
KWP K 150-150-403, n = 1750 min⁻¹



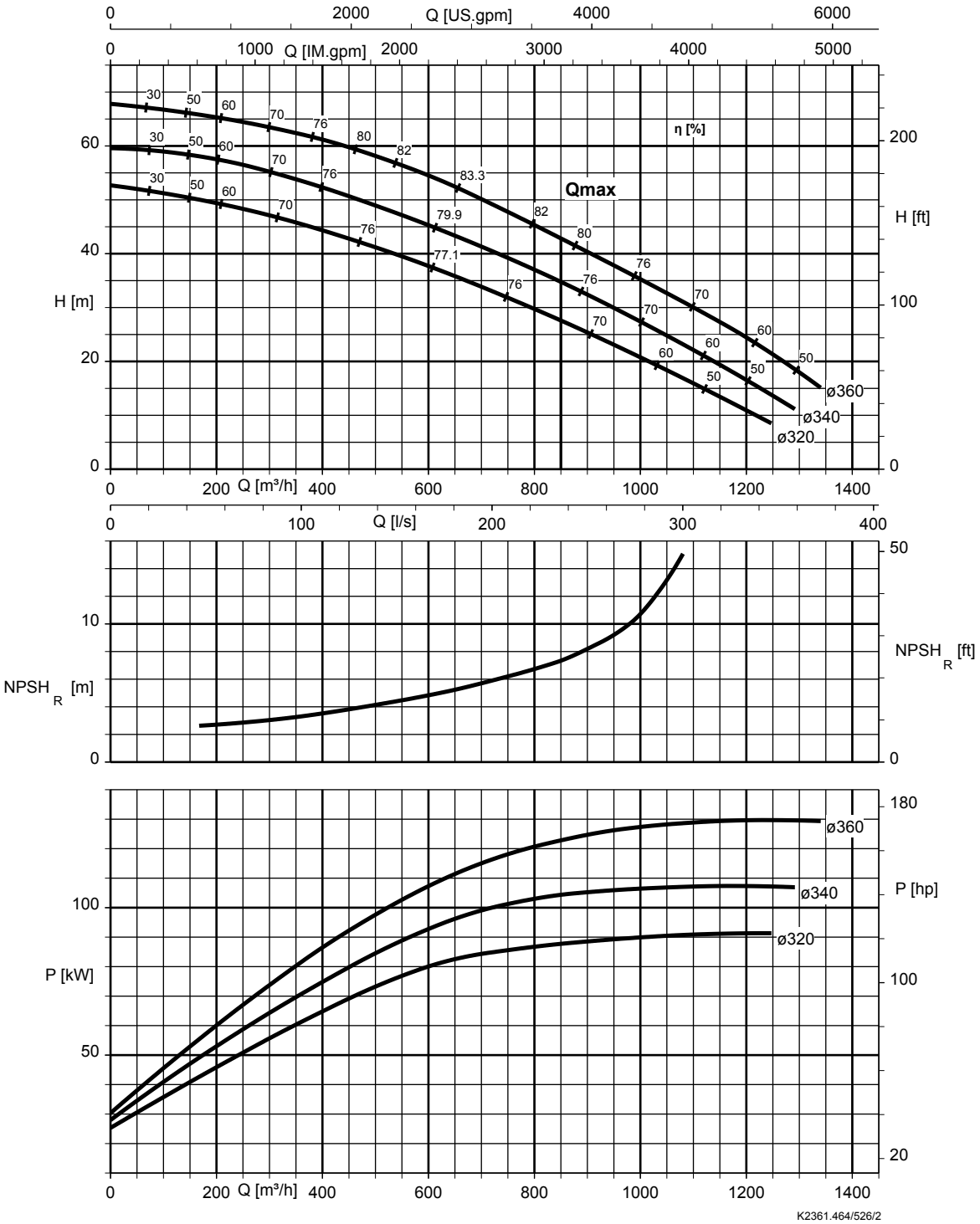
KWP K 200-200-320, n = 1750 min⁻¹



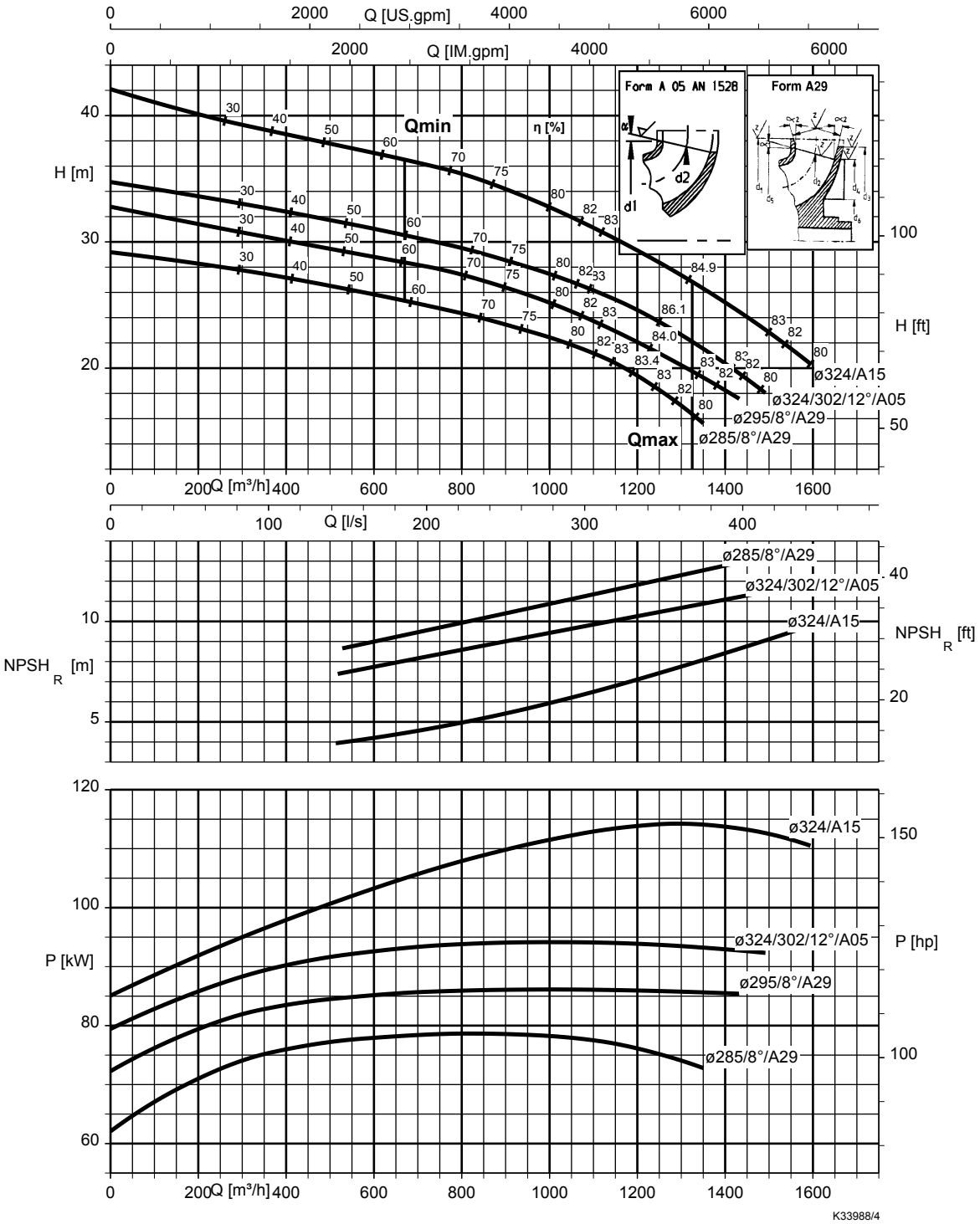
KWP K 200-200-400, n = 1750 min⁻¹



KWP K 200-200-403, n = 1750 min⁻¹

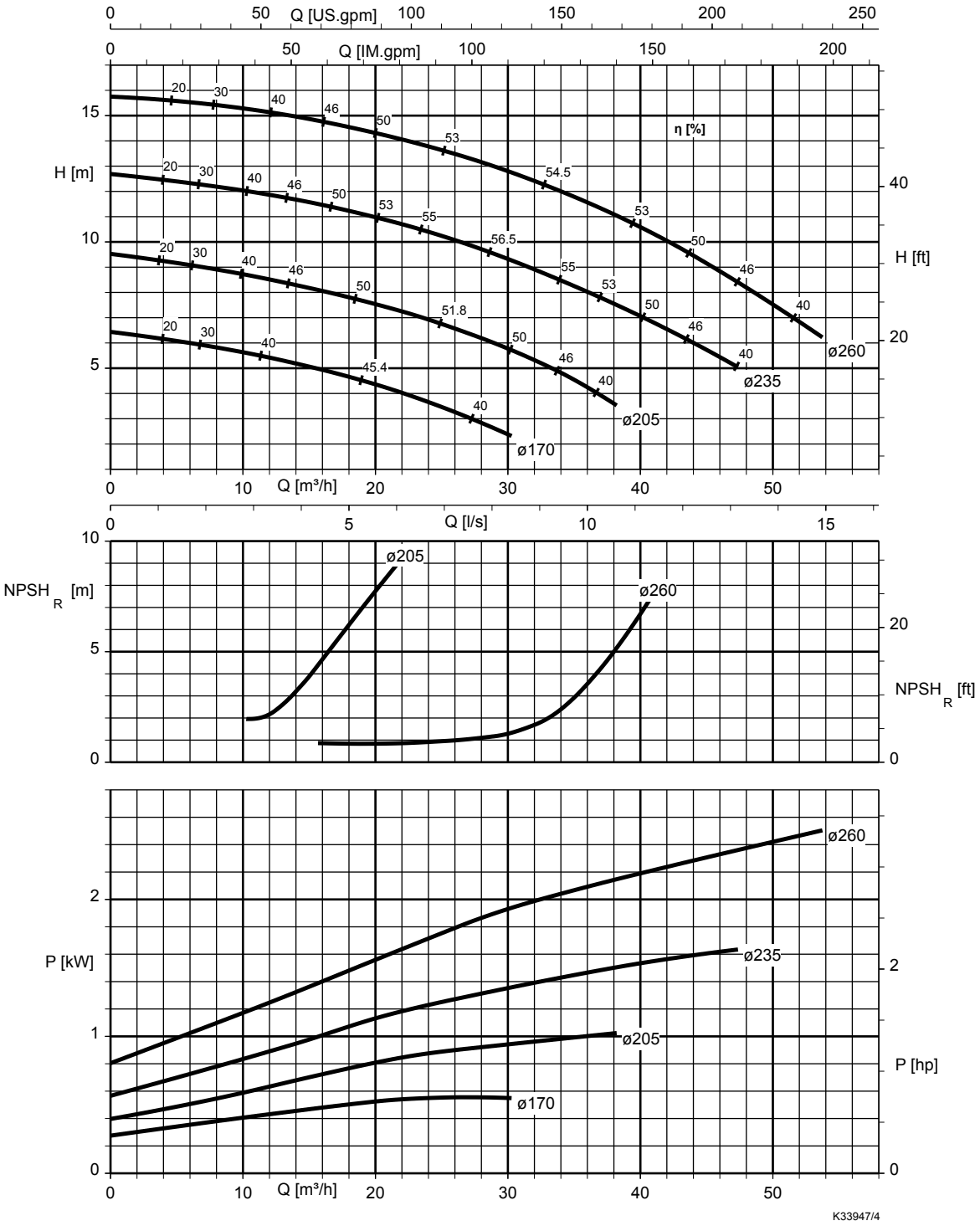


KWP K 250-250-315, n = 1750 min⁻¹

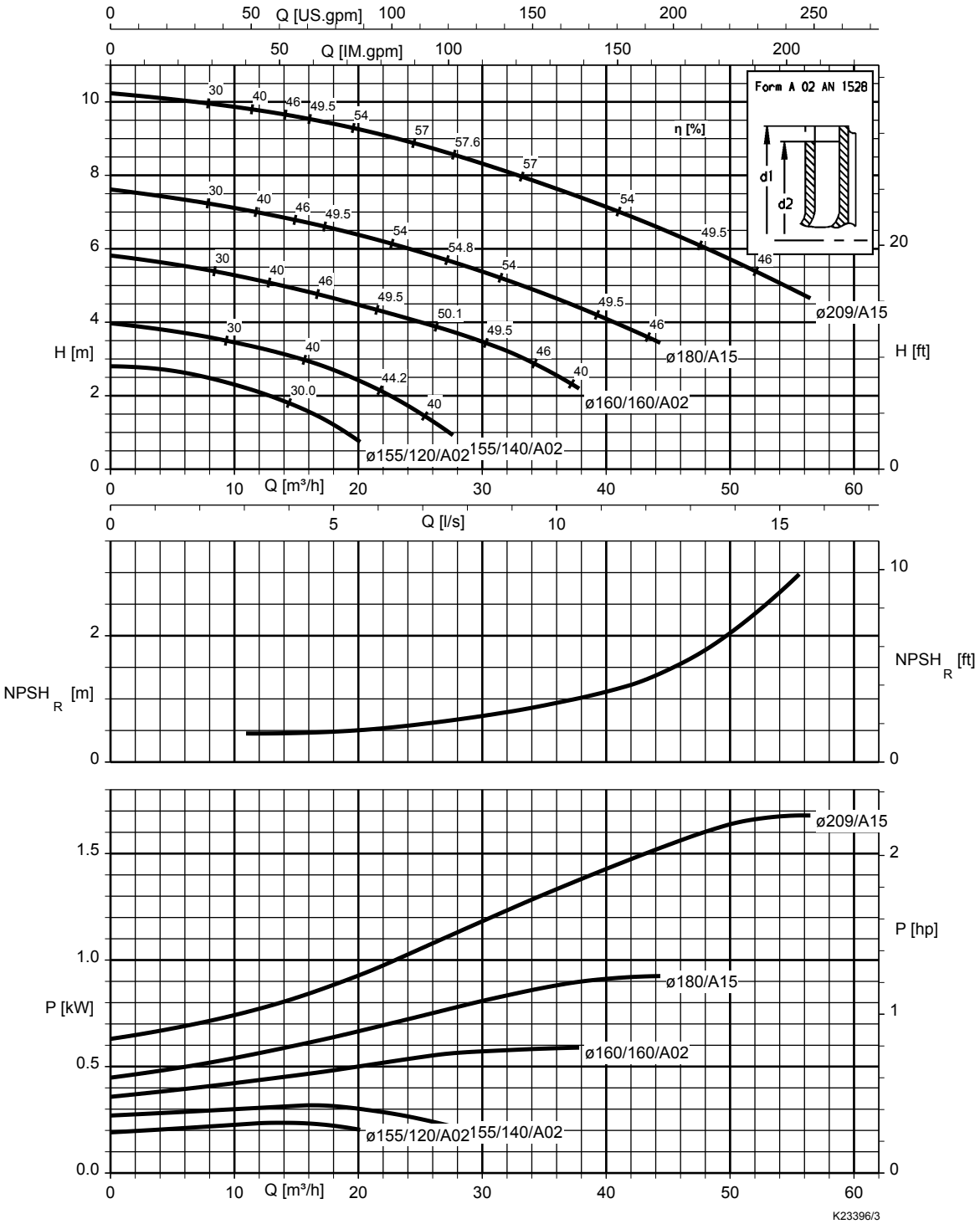


n = 1160 min⁻¹

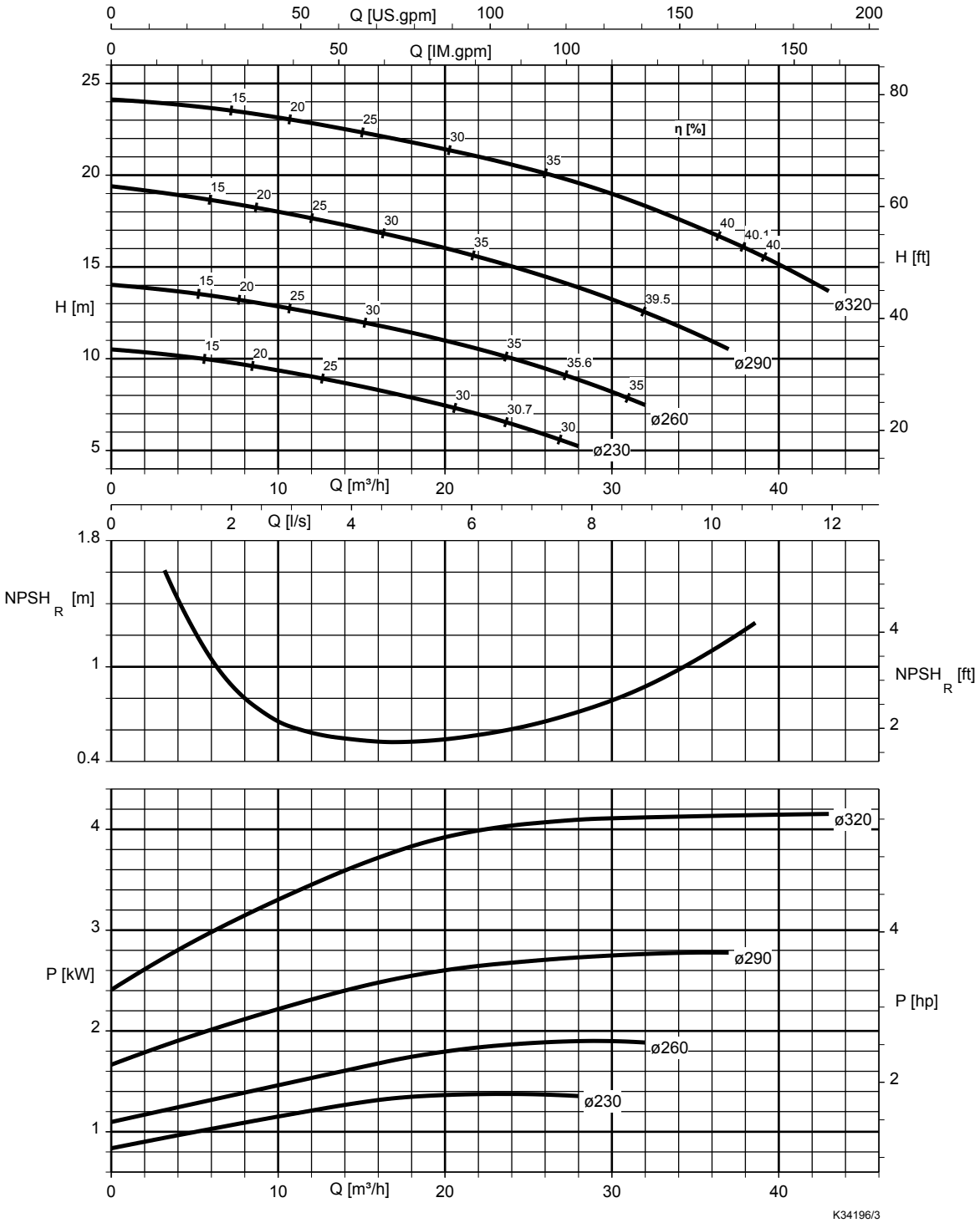
KWP K 065-040-250, n = 1160 min⁻¹



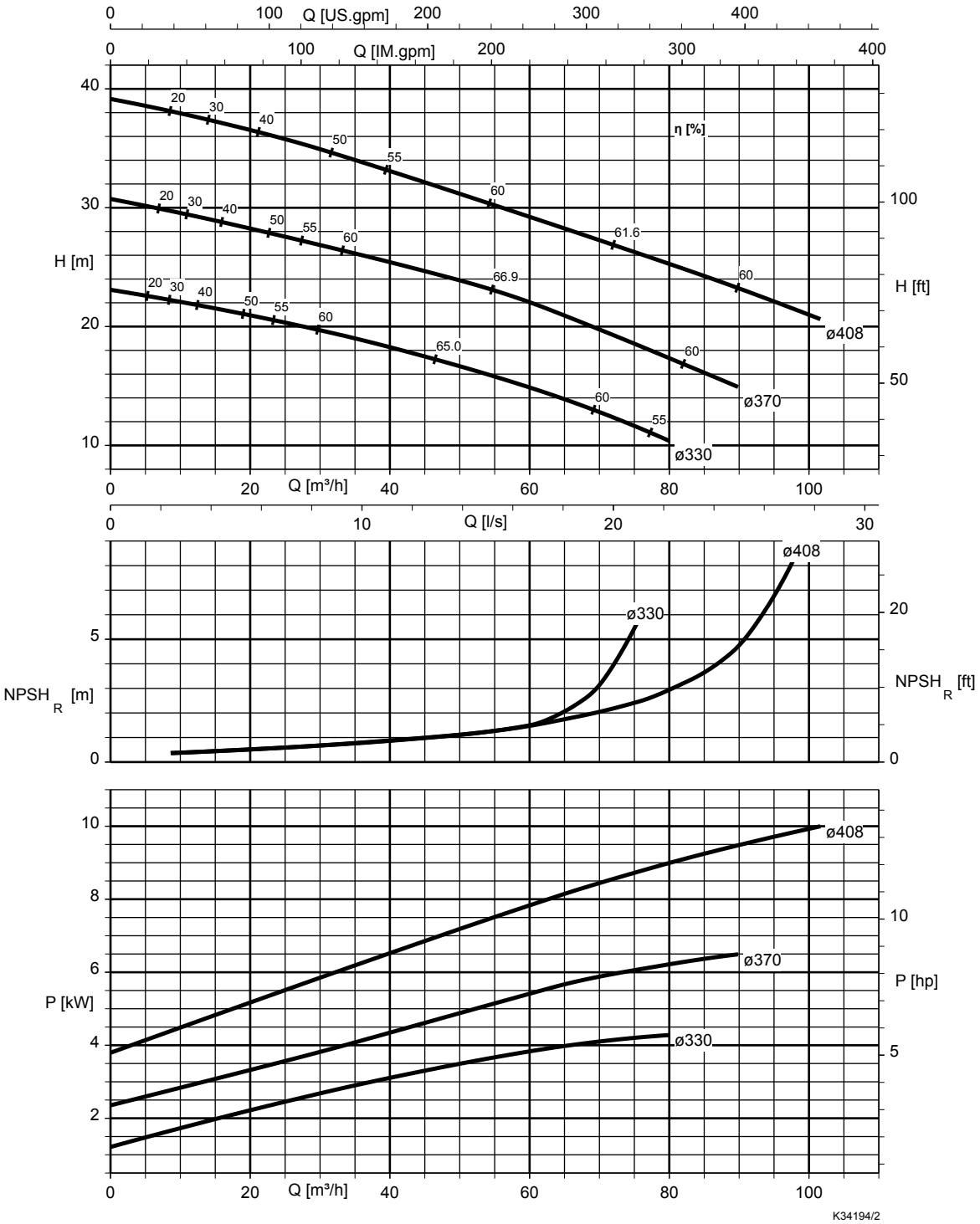
KWP K 065-050-200, n = 1160 min⁻¹



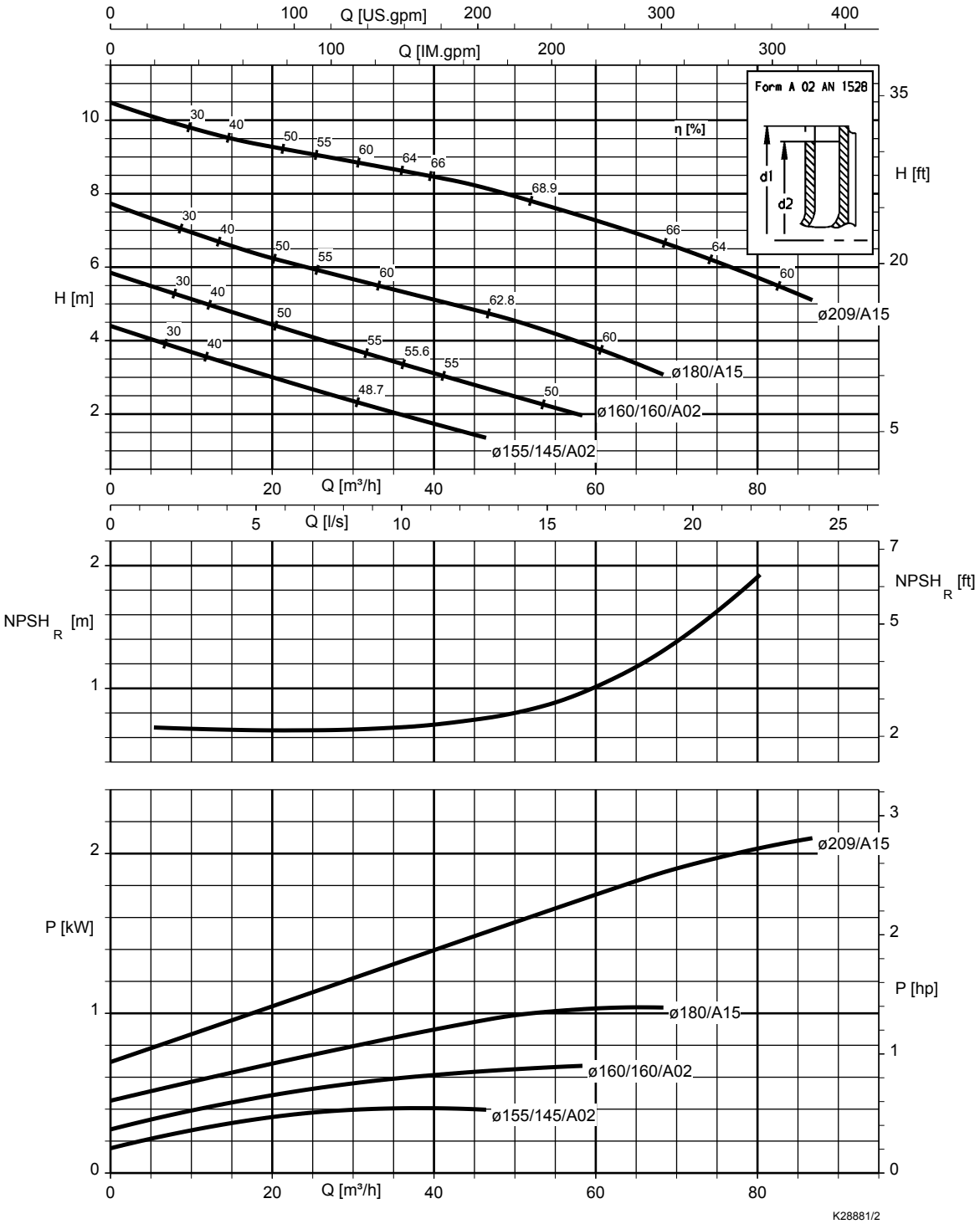
KWP K 080-040-315, n = 1160 min⁻¹



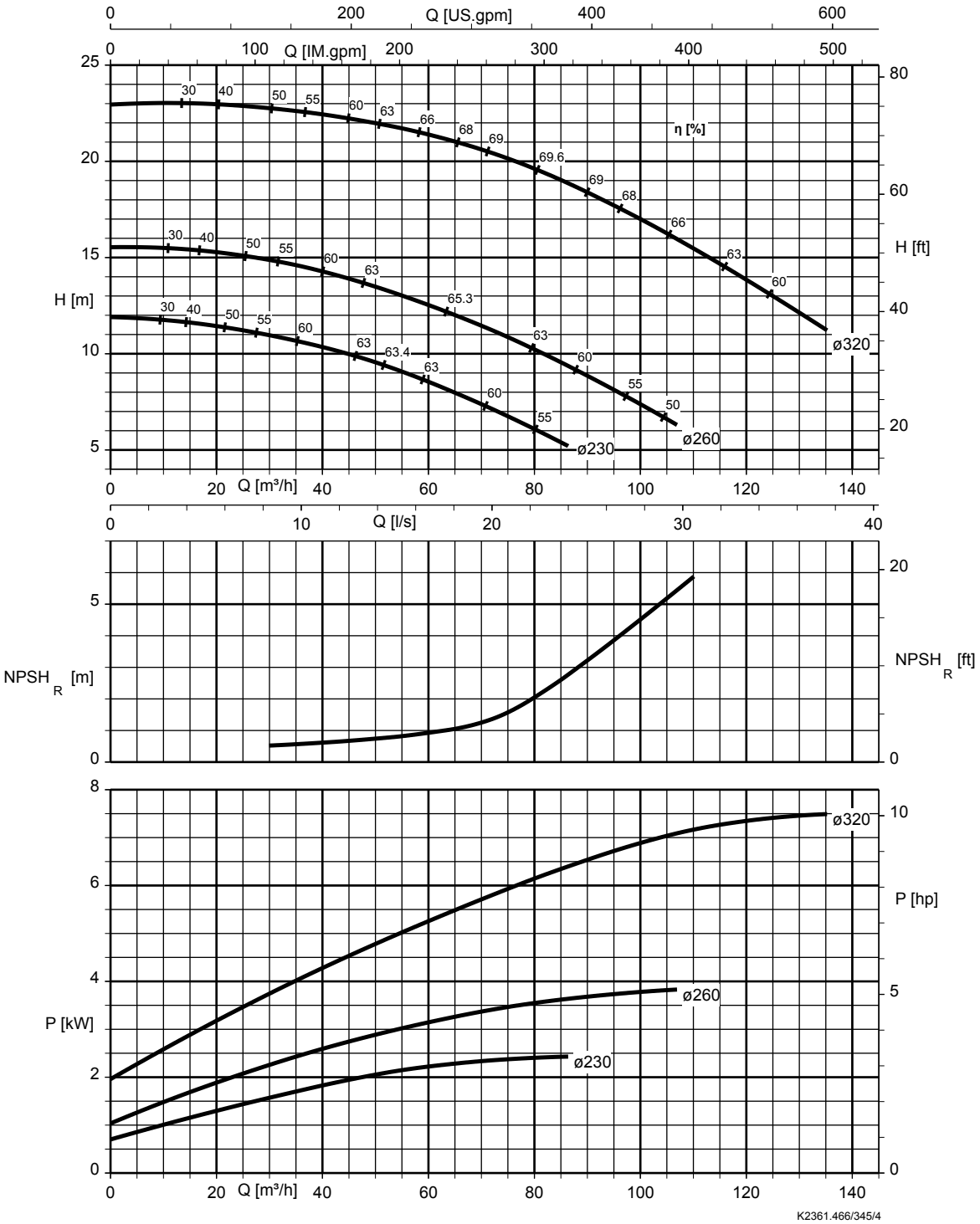
KWP K 080-050-400, n = 1160 min⁻¹



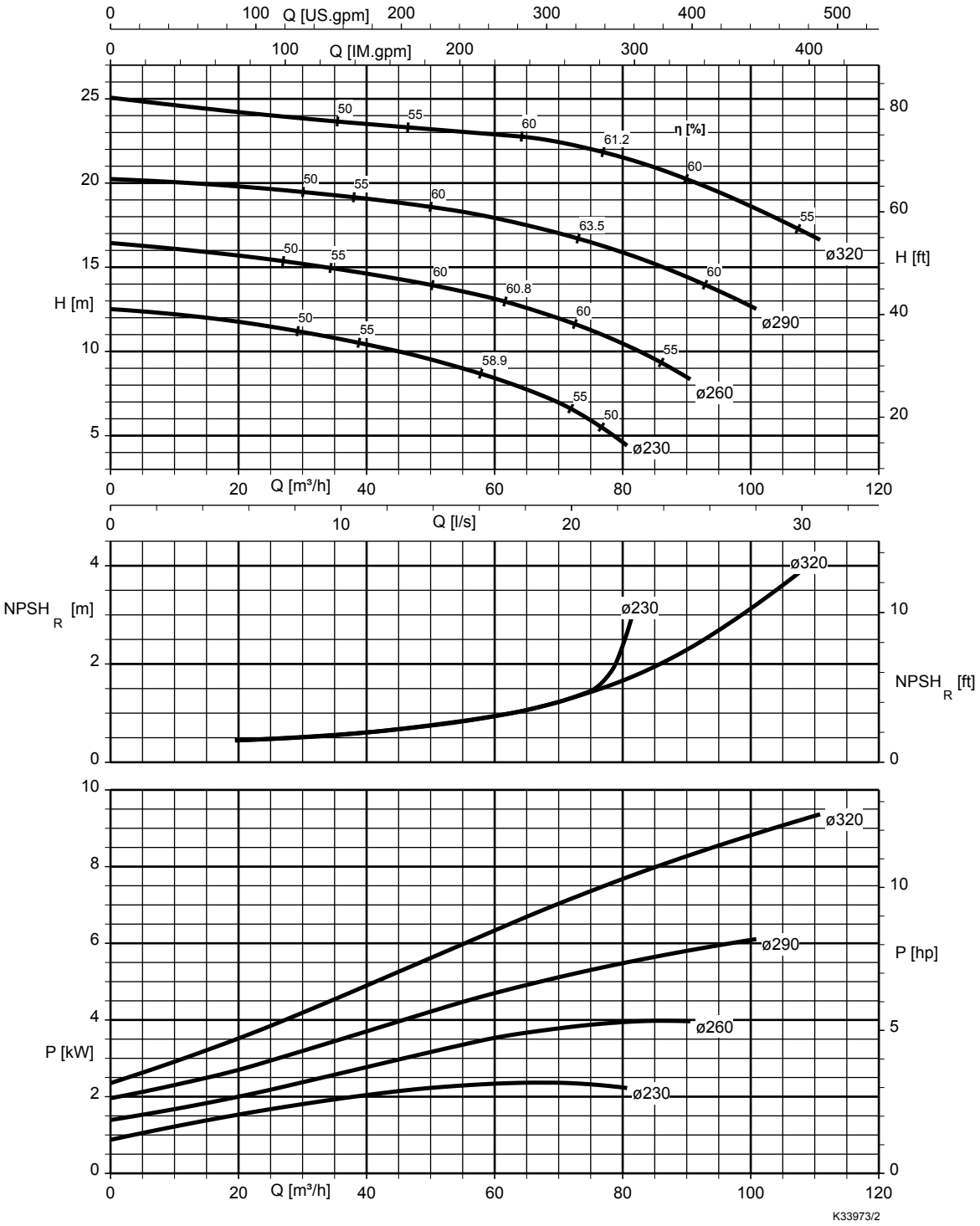
KWP K 080-065-200, n = 1160 min⁻¹



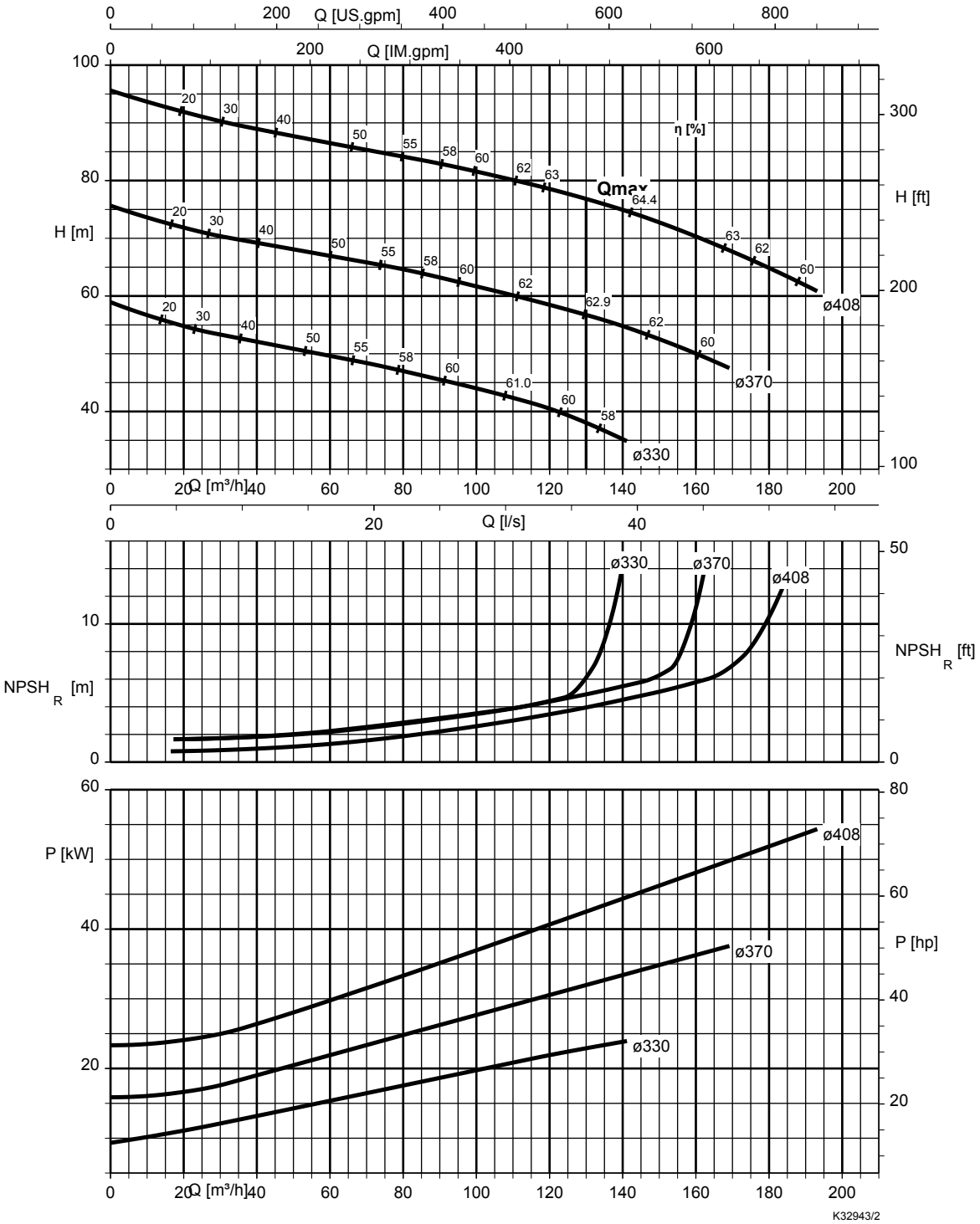
KWP K 080-065-313, n = 1160 min⁻¹



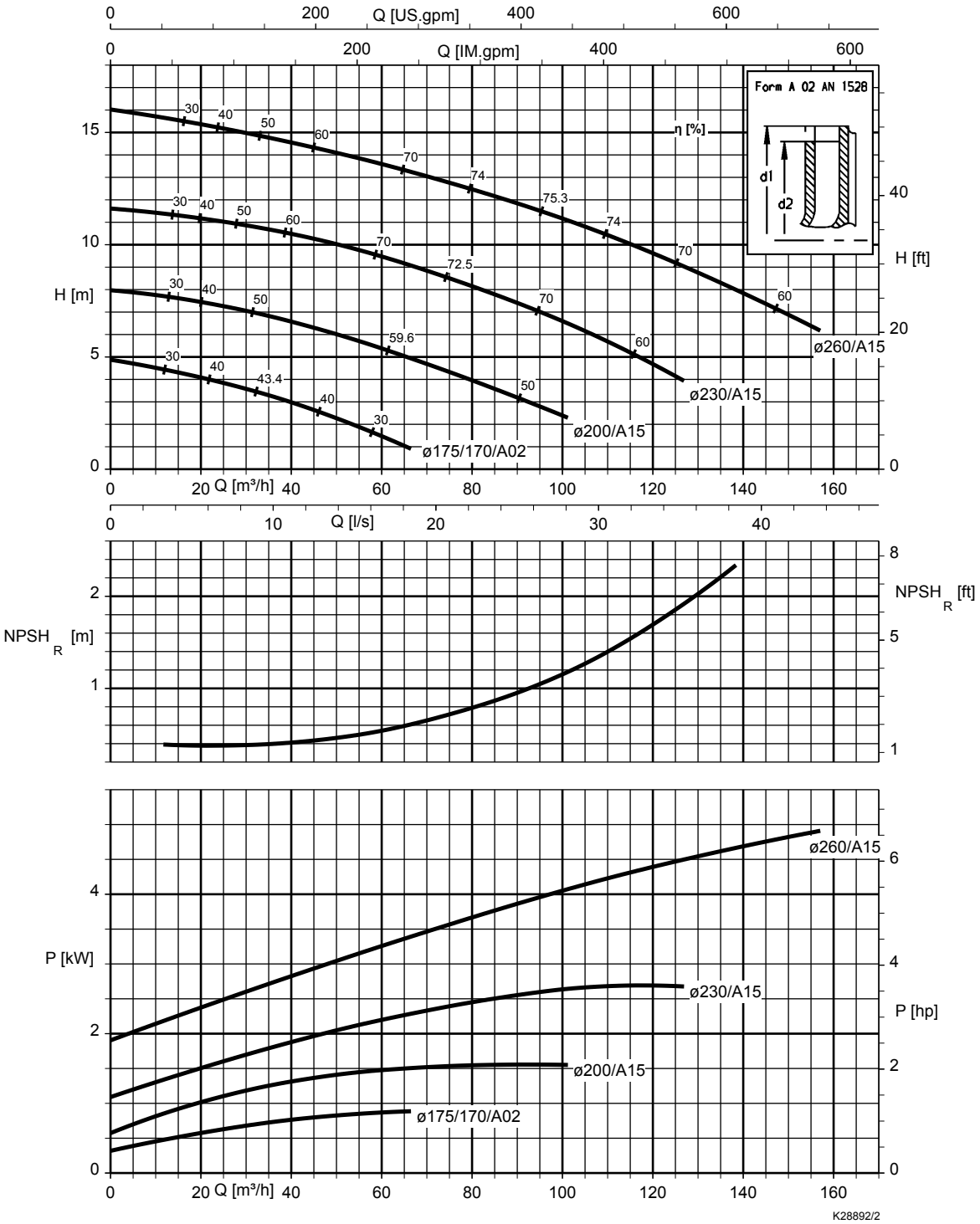
KWP K 080-065-315, n = 1160 min⁻¹



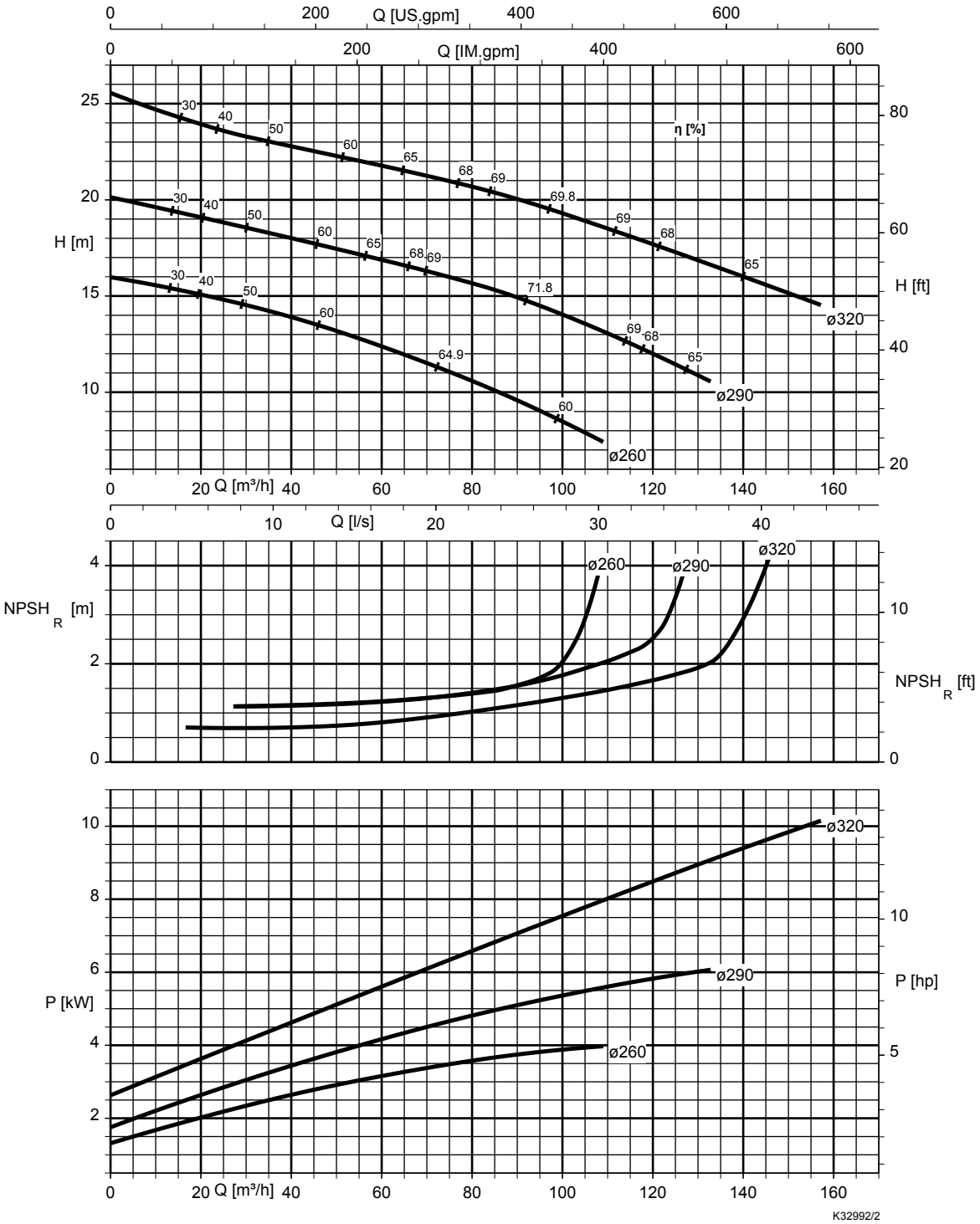
KWP K 080-065-400, n = 1160 min⁻¹



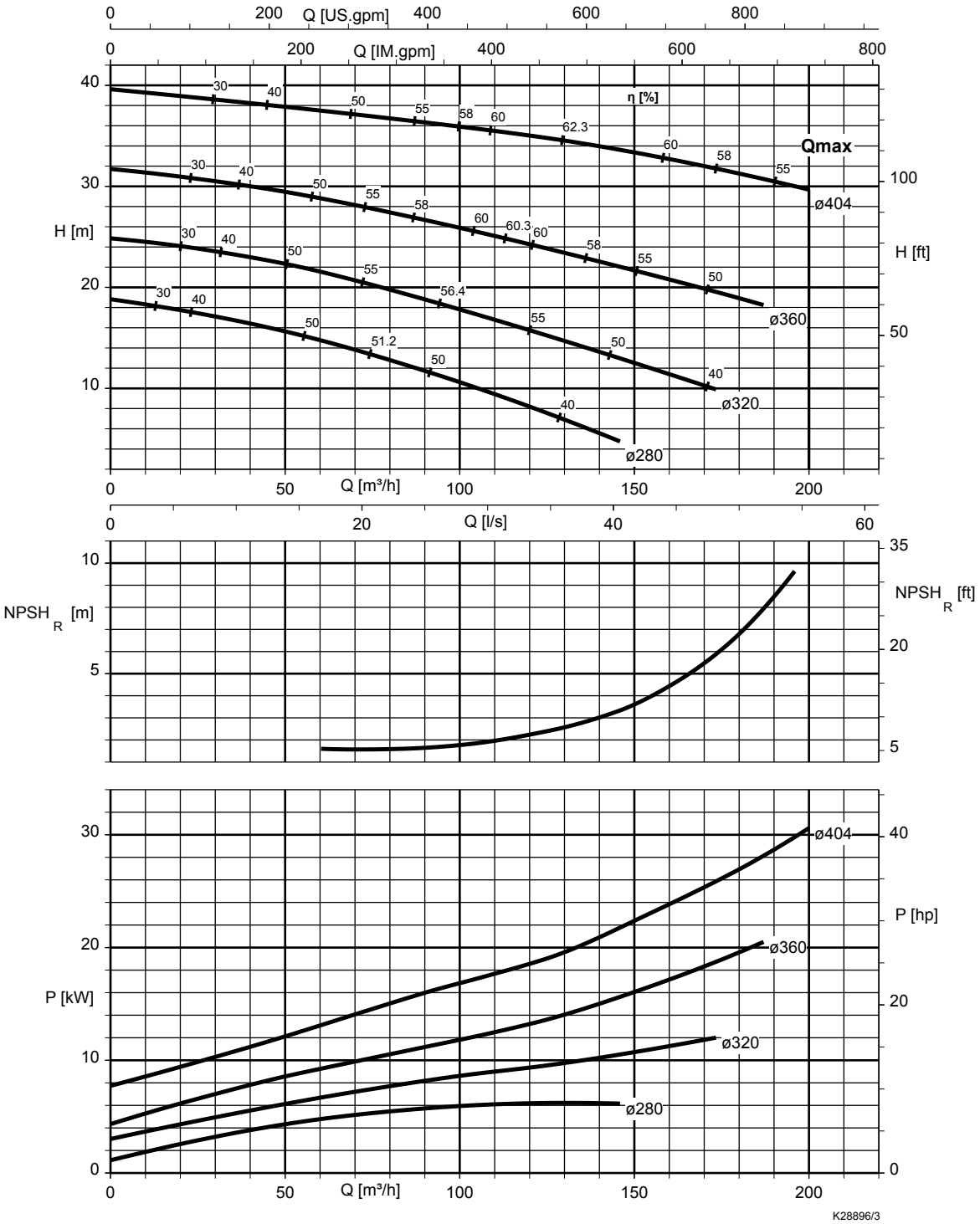
KWP K 100-080-250, n = 1160 min⁻¹



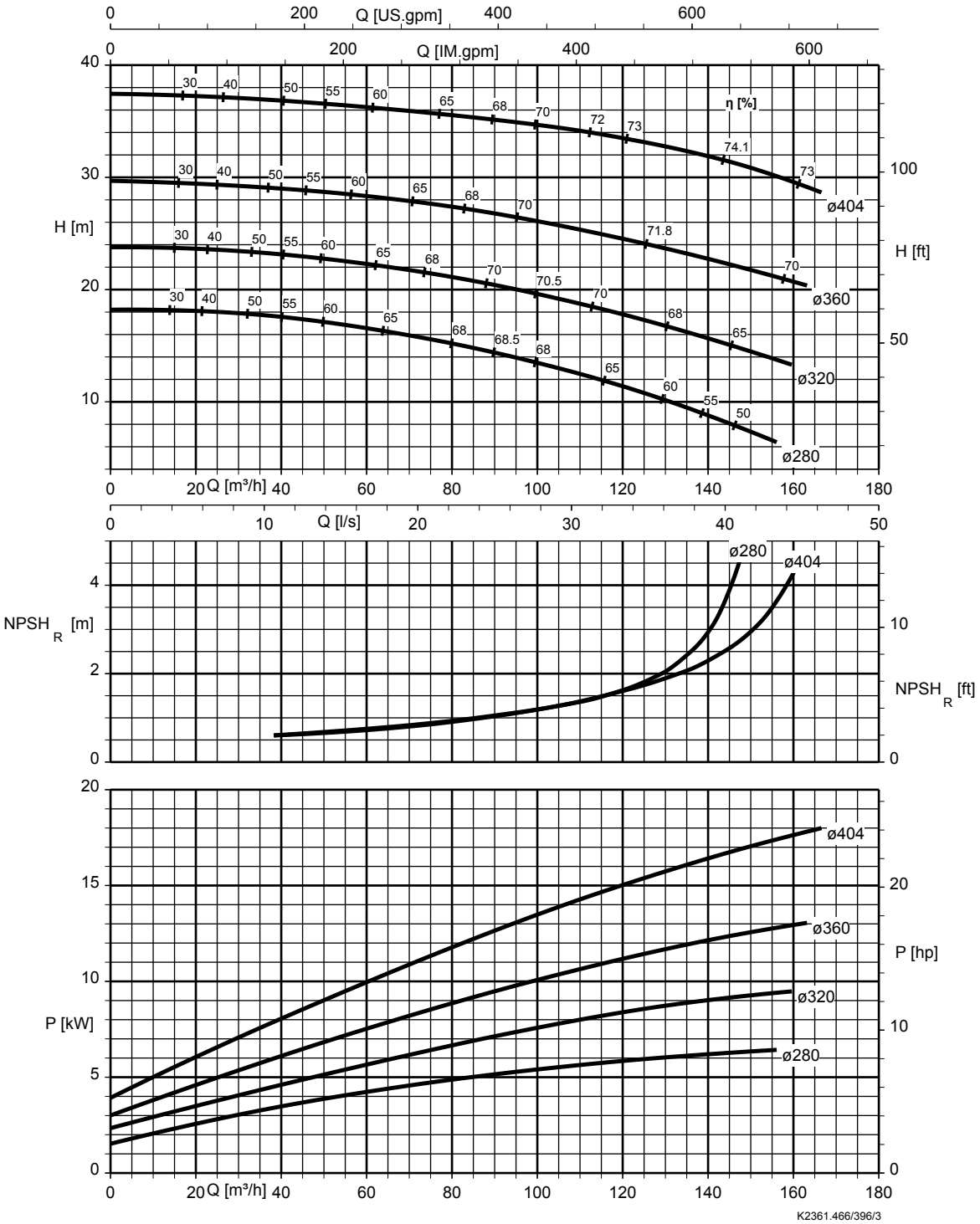
KWP K 100-080-315, n = 1160 min⁻¹



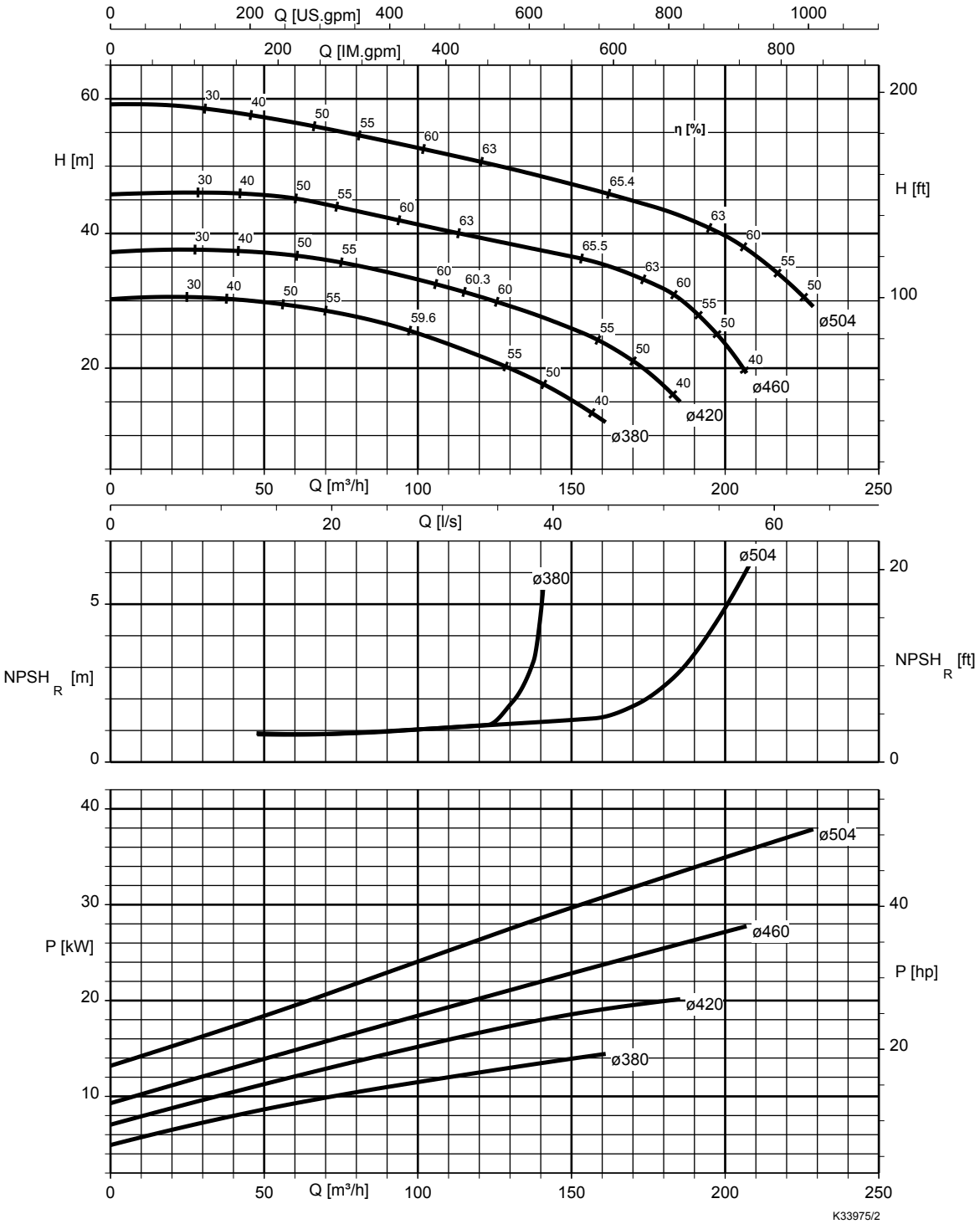
KWP K 100-080-400, n = 1160 min⁻¹



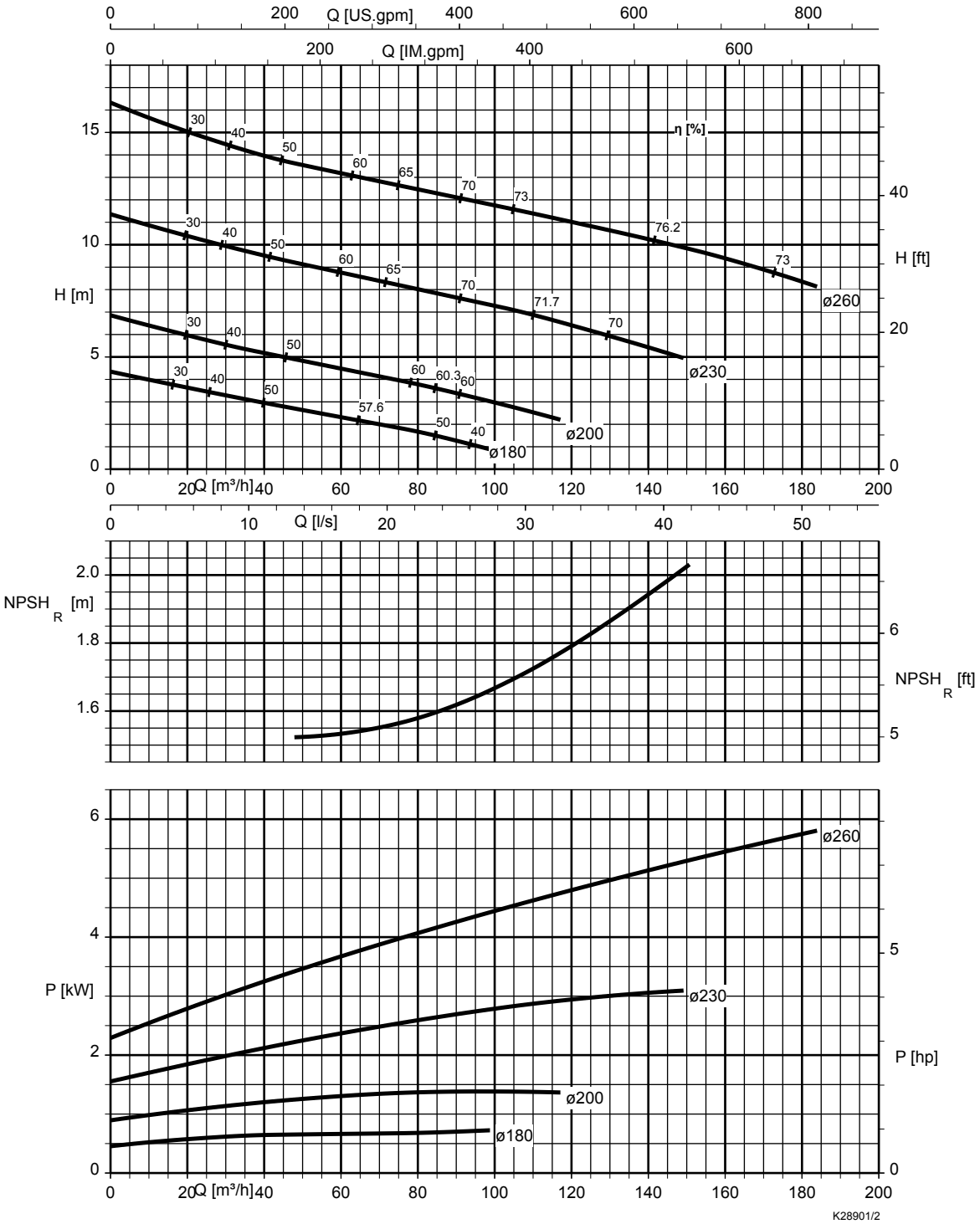
KWP K 100-080-403, n = 1160 min⁻¹



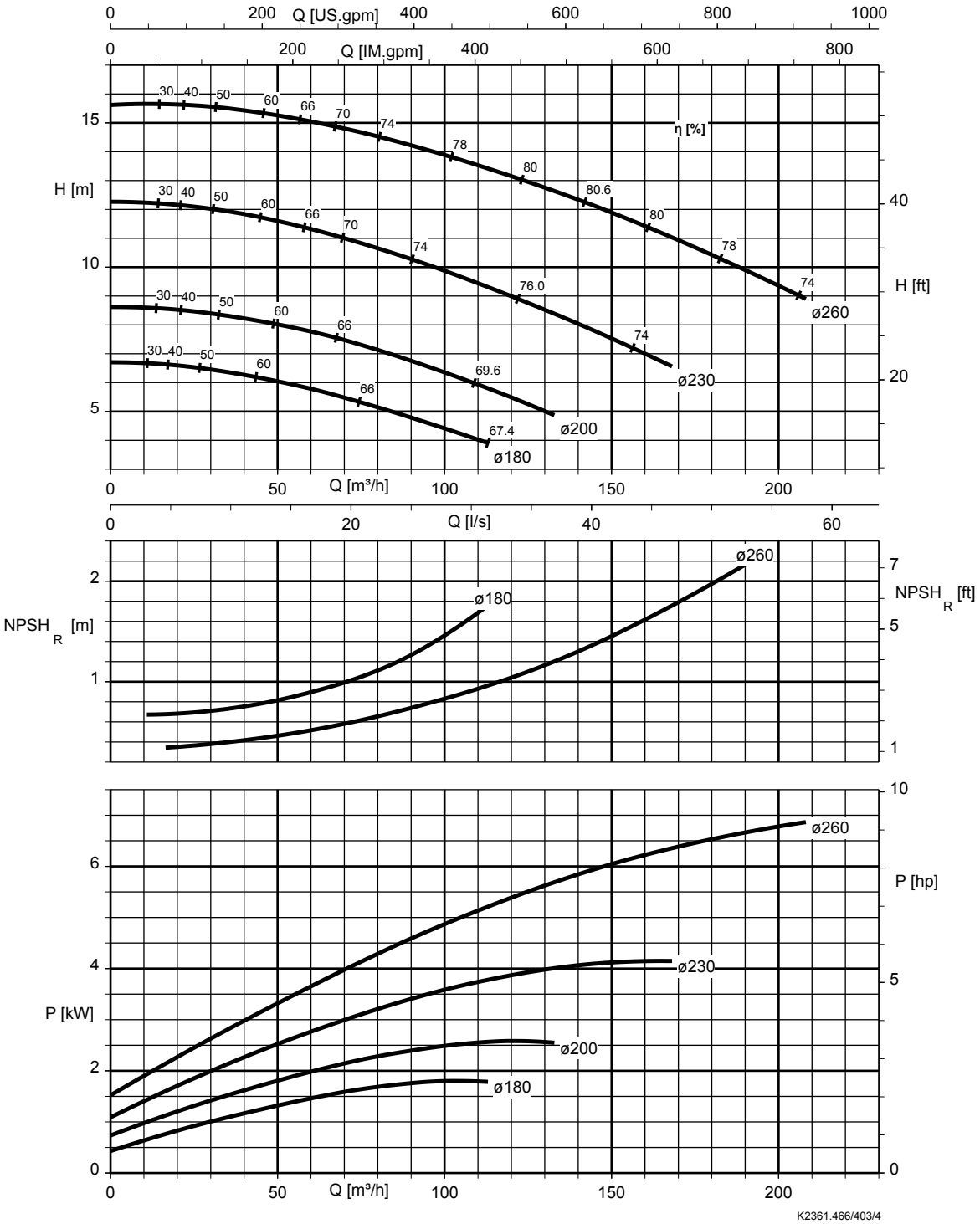
KWP K 125-080-500, n = 1160 min⁻¹



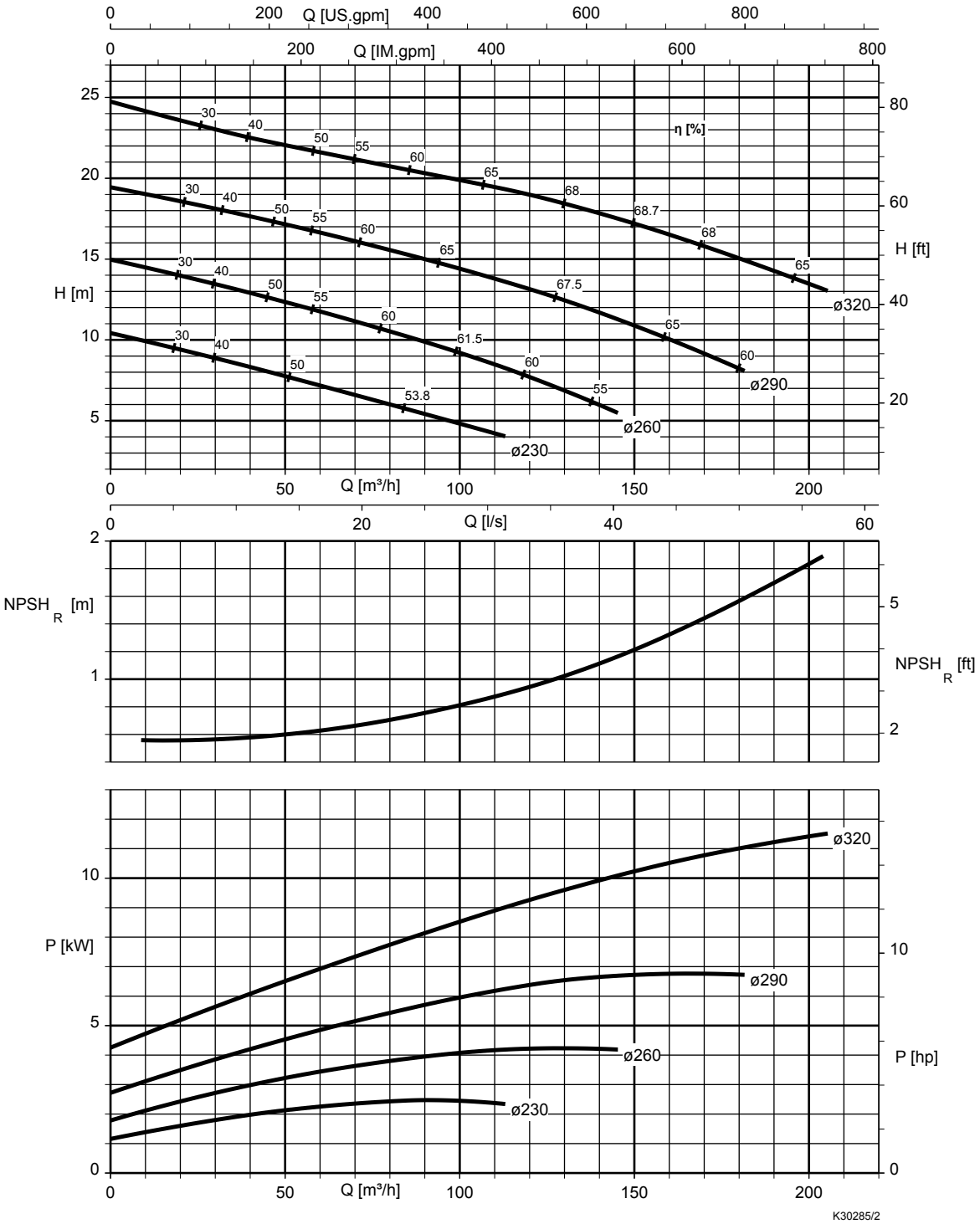
KWP K 125-100-250, n = 1160 min⁻¹



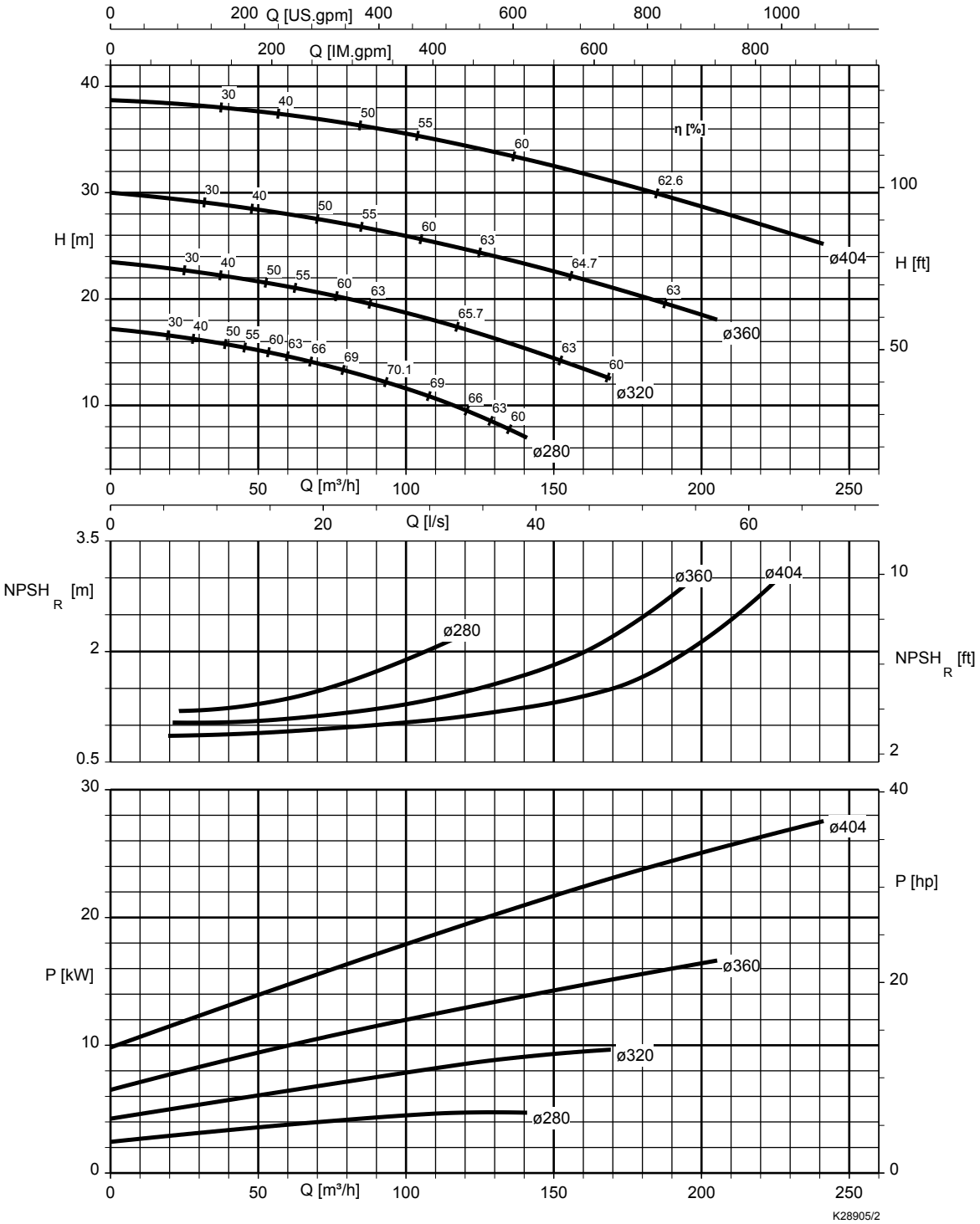
KWP K 125-100-253, n = 1160 min⁻¹



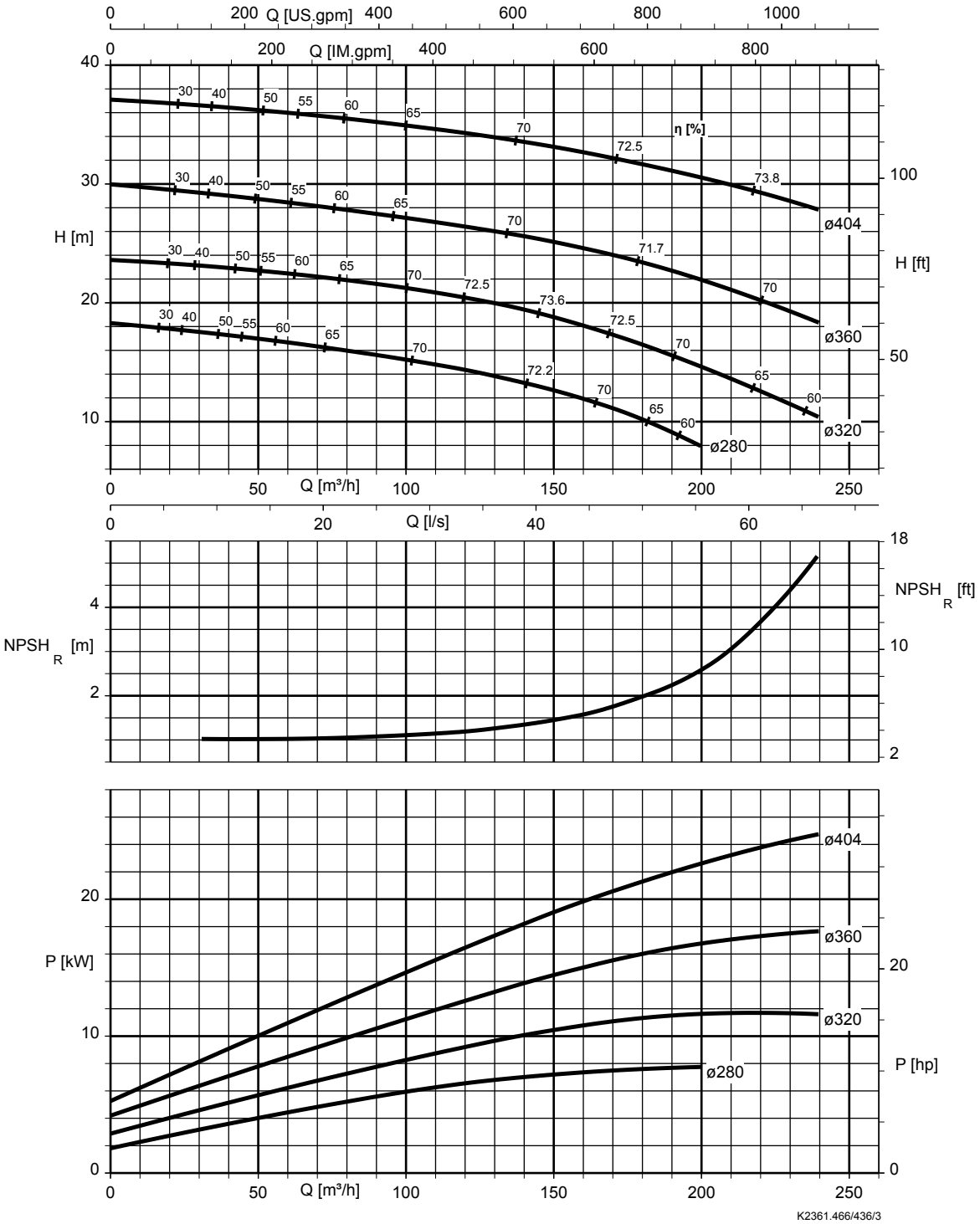
KWP K 125-100-315, n = 1160 min⁻¹



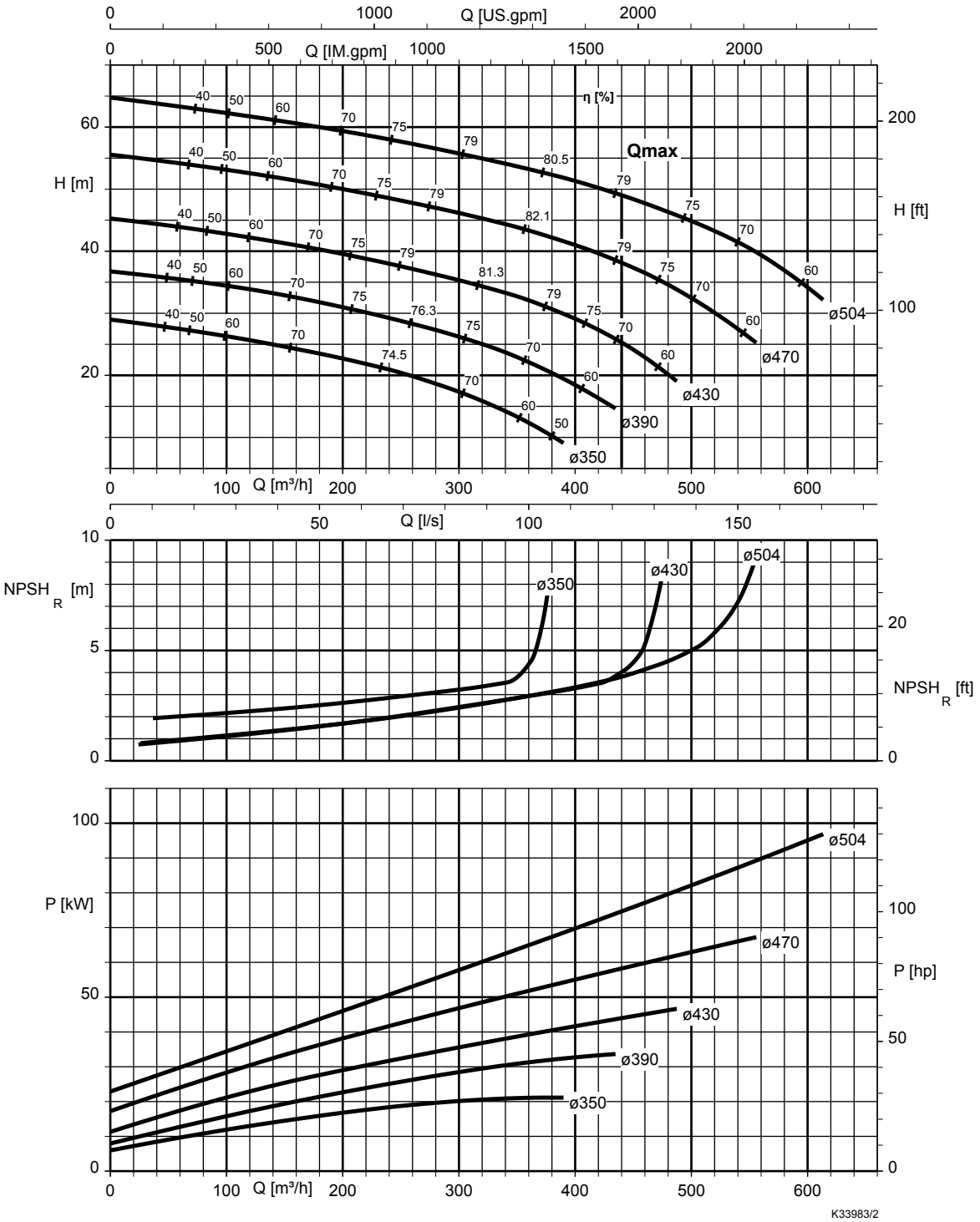
KWP K 125-100-400, n = 1160 min⁻¹



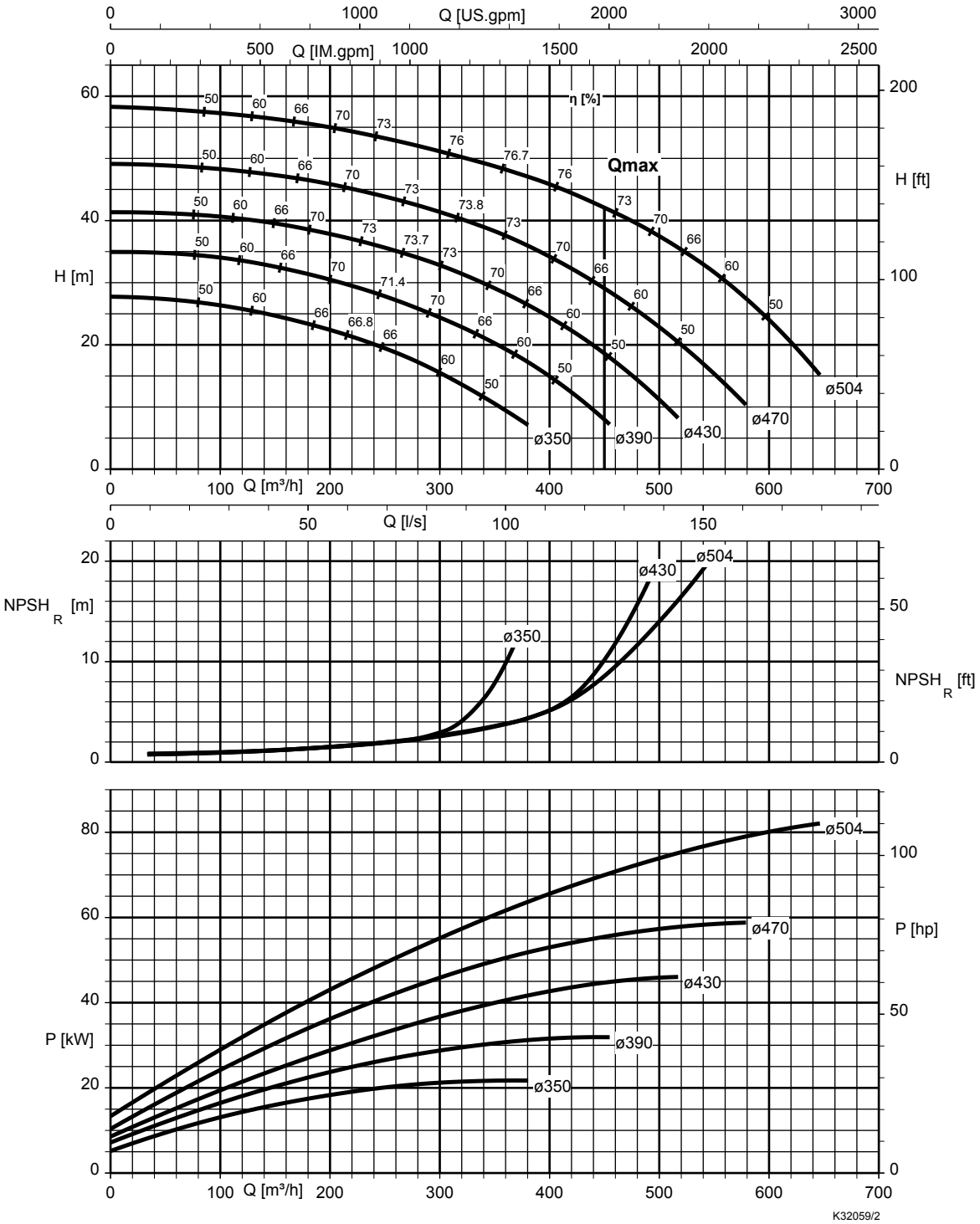
KWP K 125-100-403, n = 1160 min⁻¹



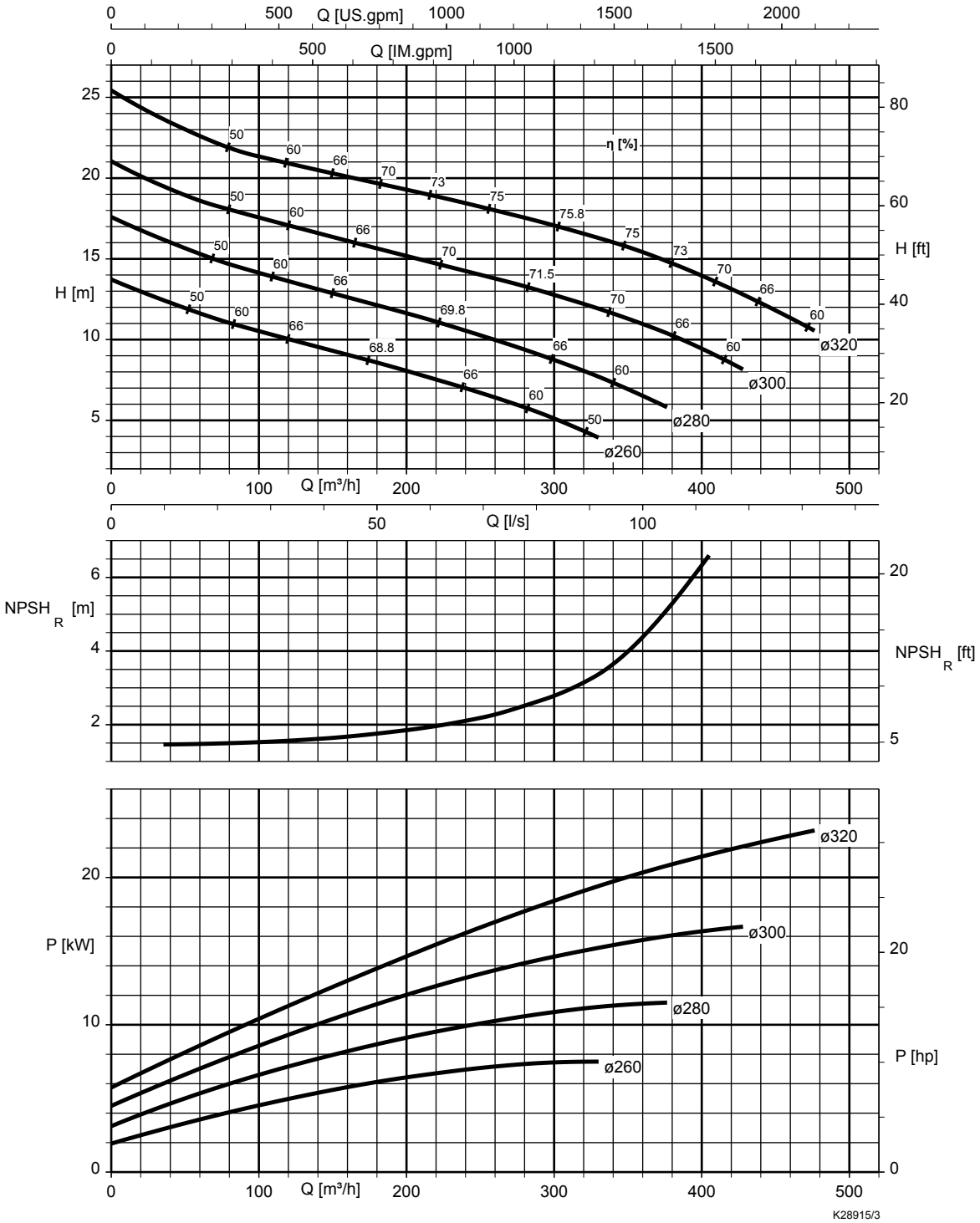
KWP K 150-125-500, n = 1160 min⁻¹



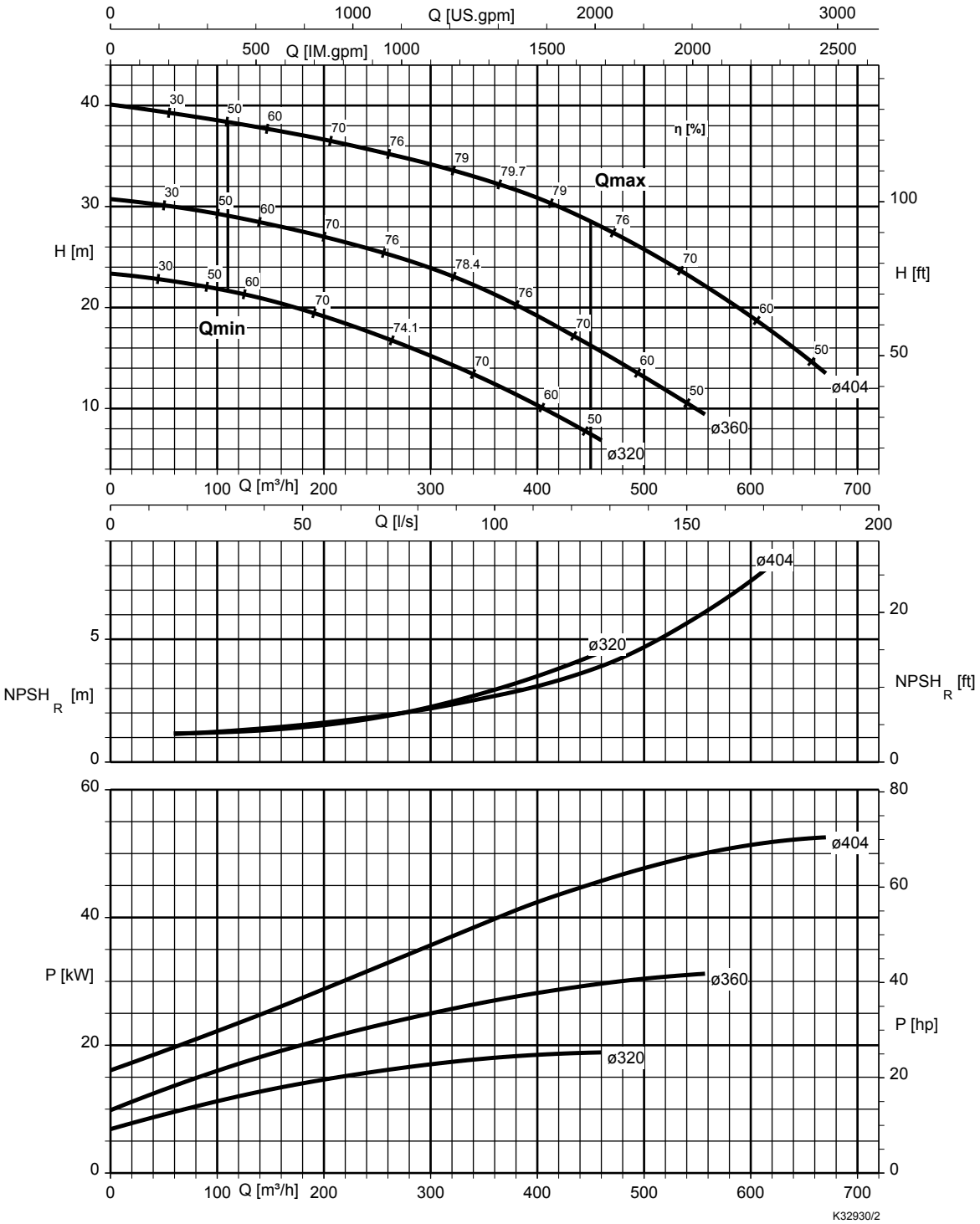
KWP K 150-125-503, n = 1160 min⁻¹



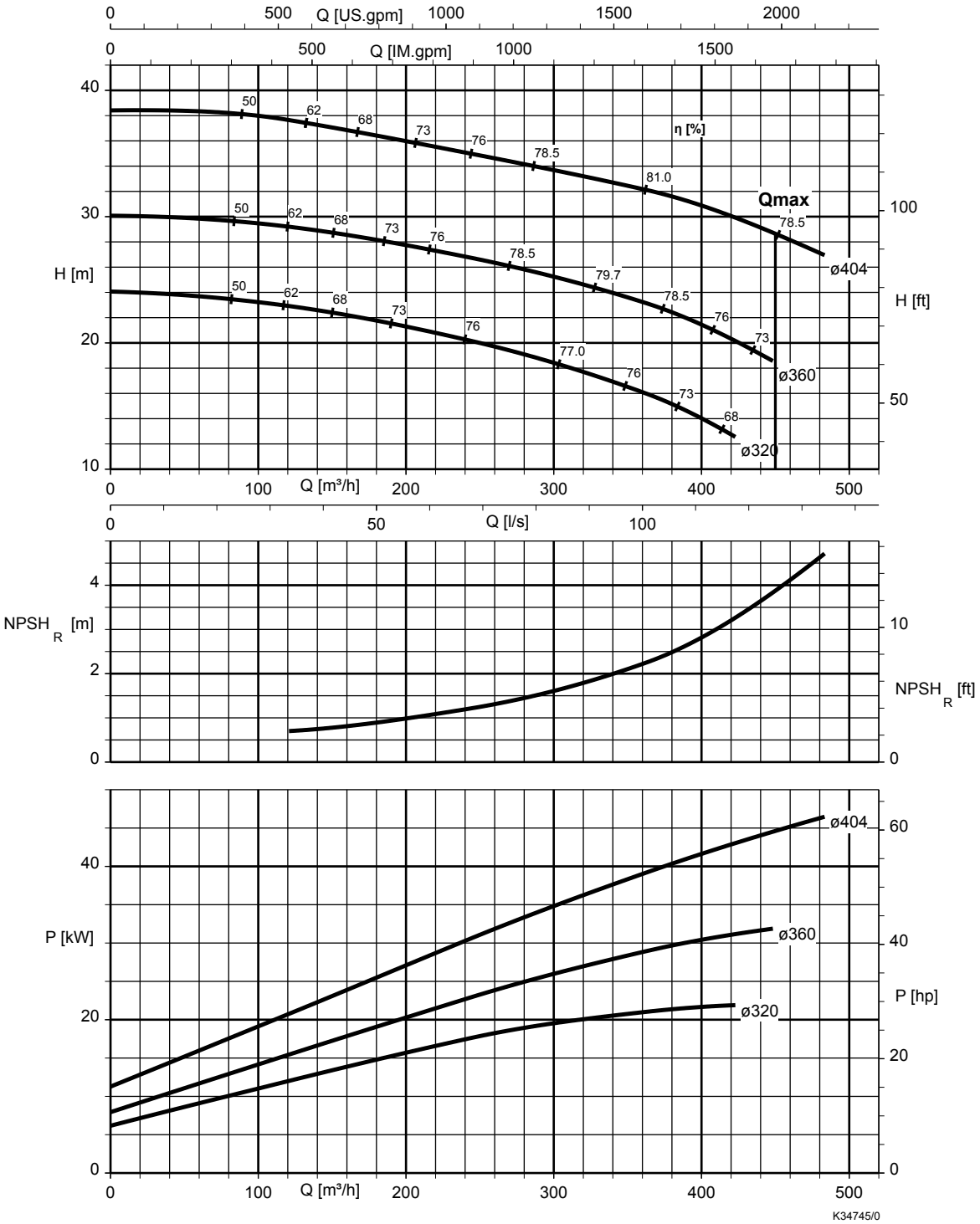
KWP K 150-150-315, n = 1160 min⁻¹



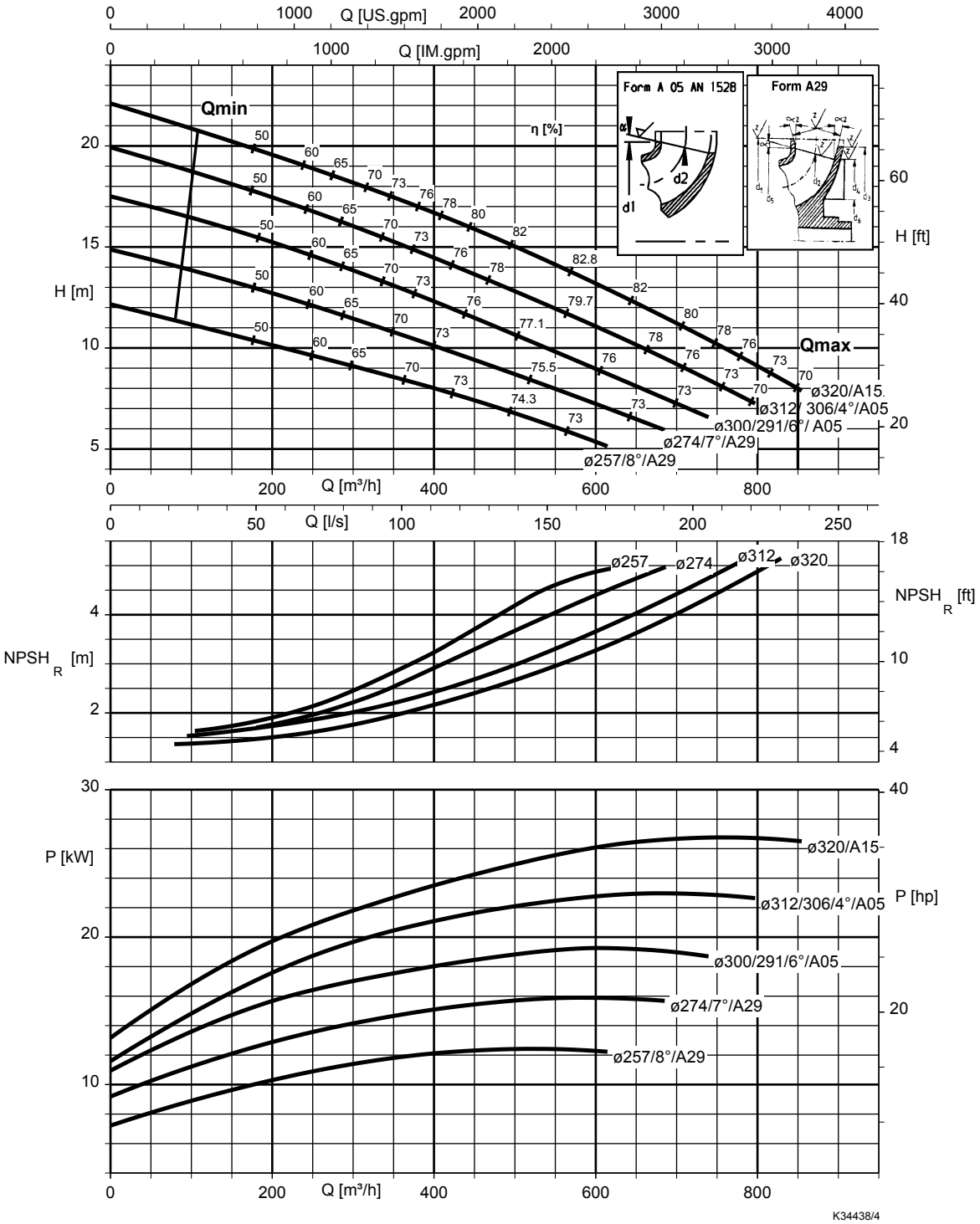
KWP K 150-150-400, n = 1160 min⁻¹



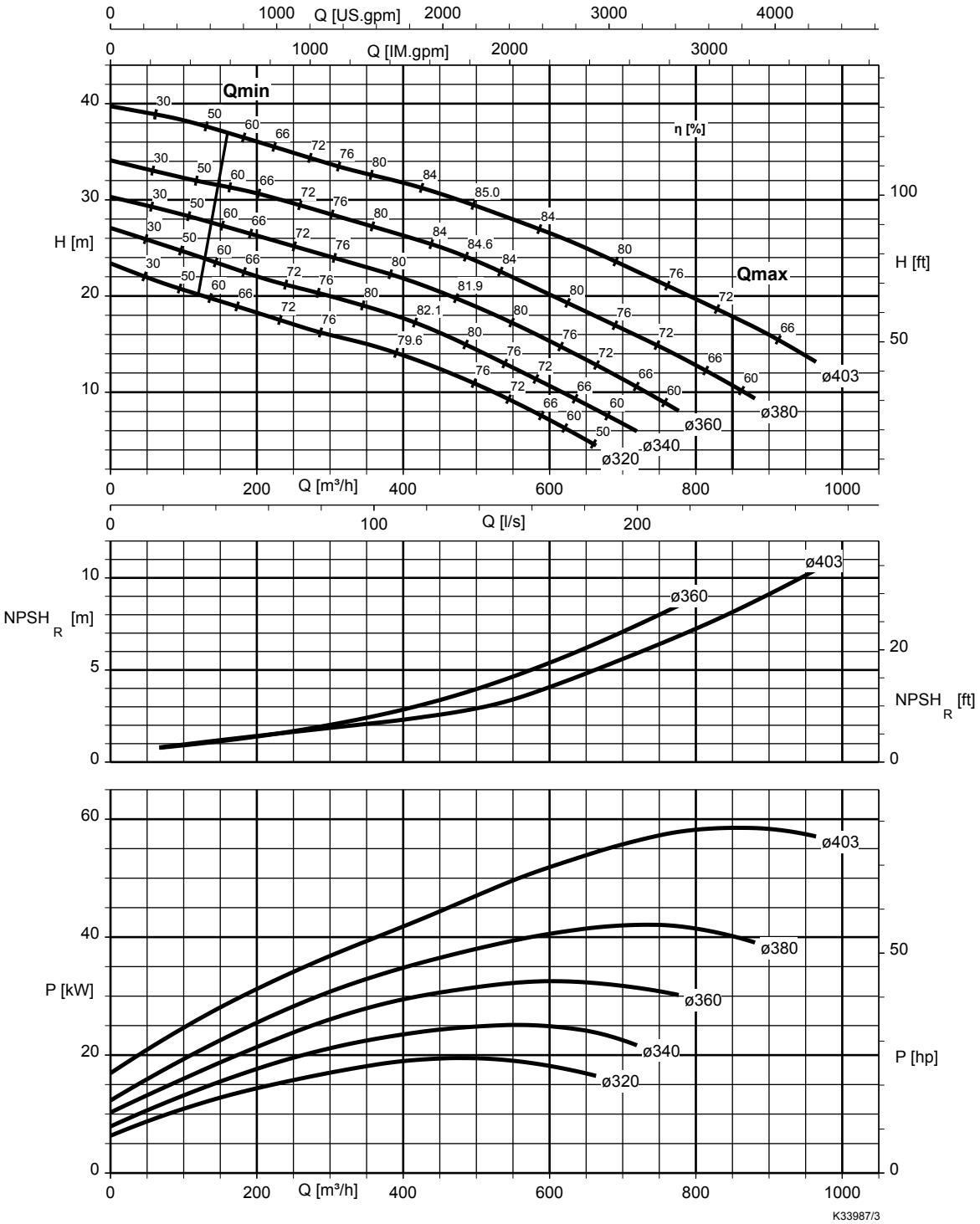
KWP K 150-150-403, n = 1160 min⁻¹



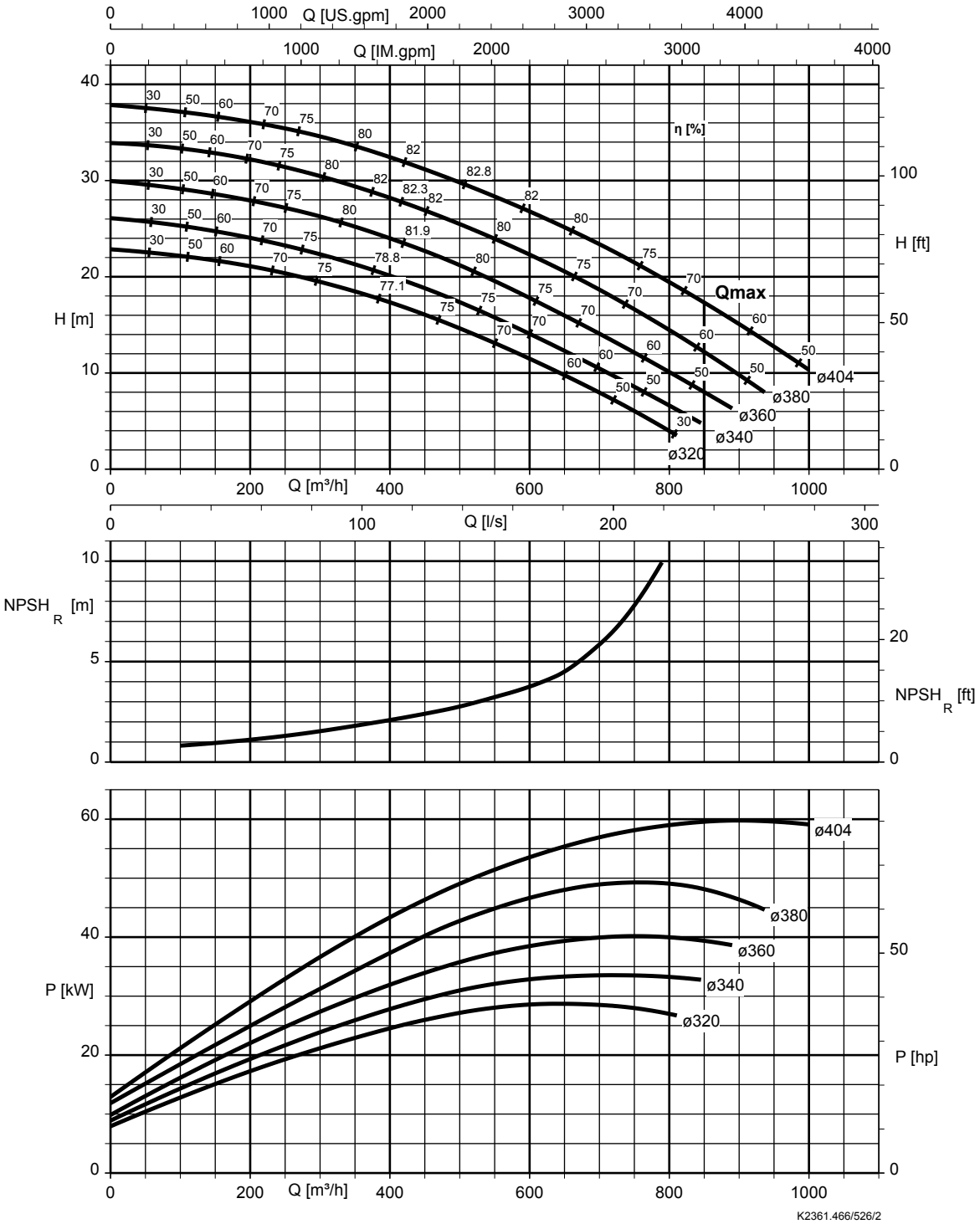
KWP K 200-200-320, n = 1160 min⁻¹



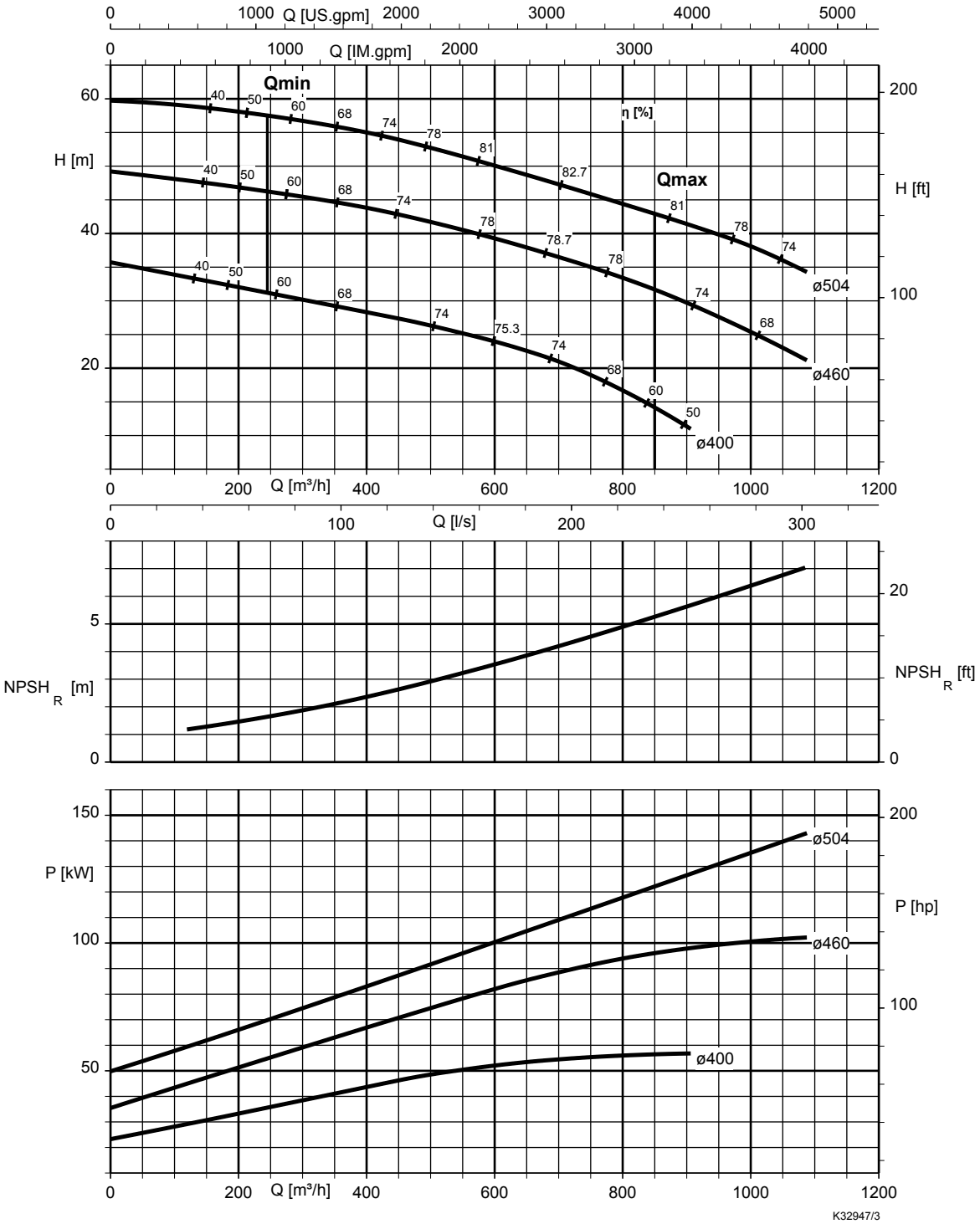
KWP K 200-200-400, n = 1160 min⁻¹



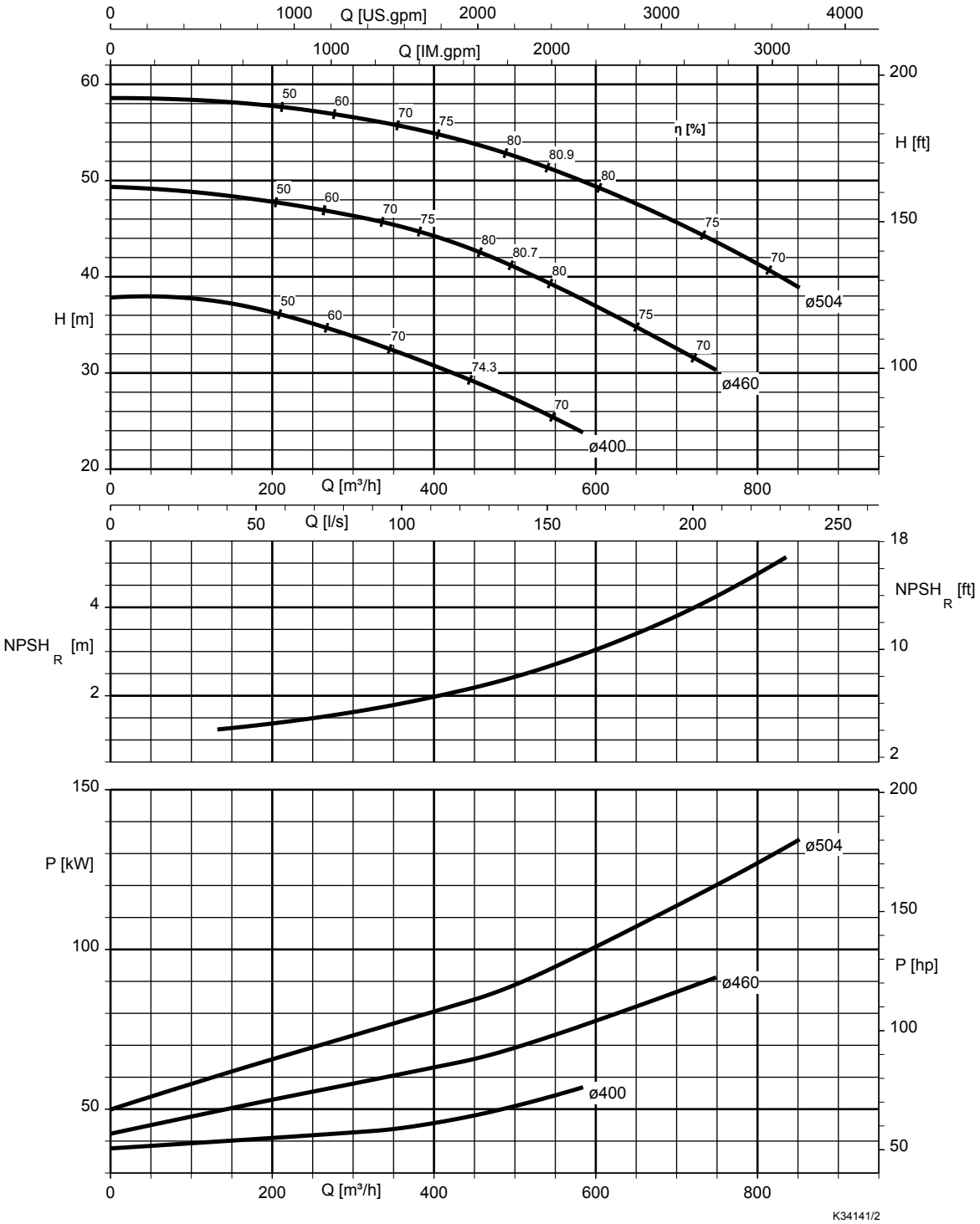
KWP K 200-200-403, n = 1160 min⁻¹



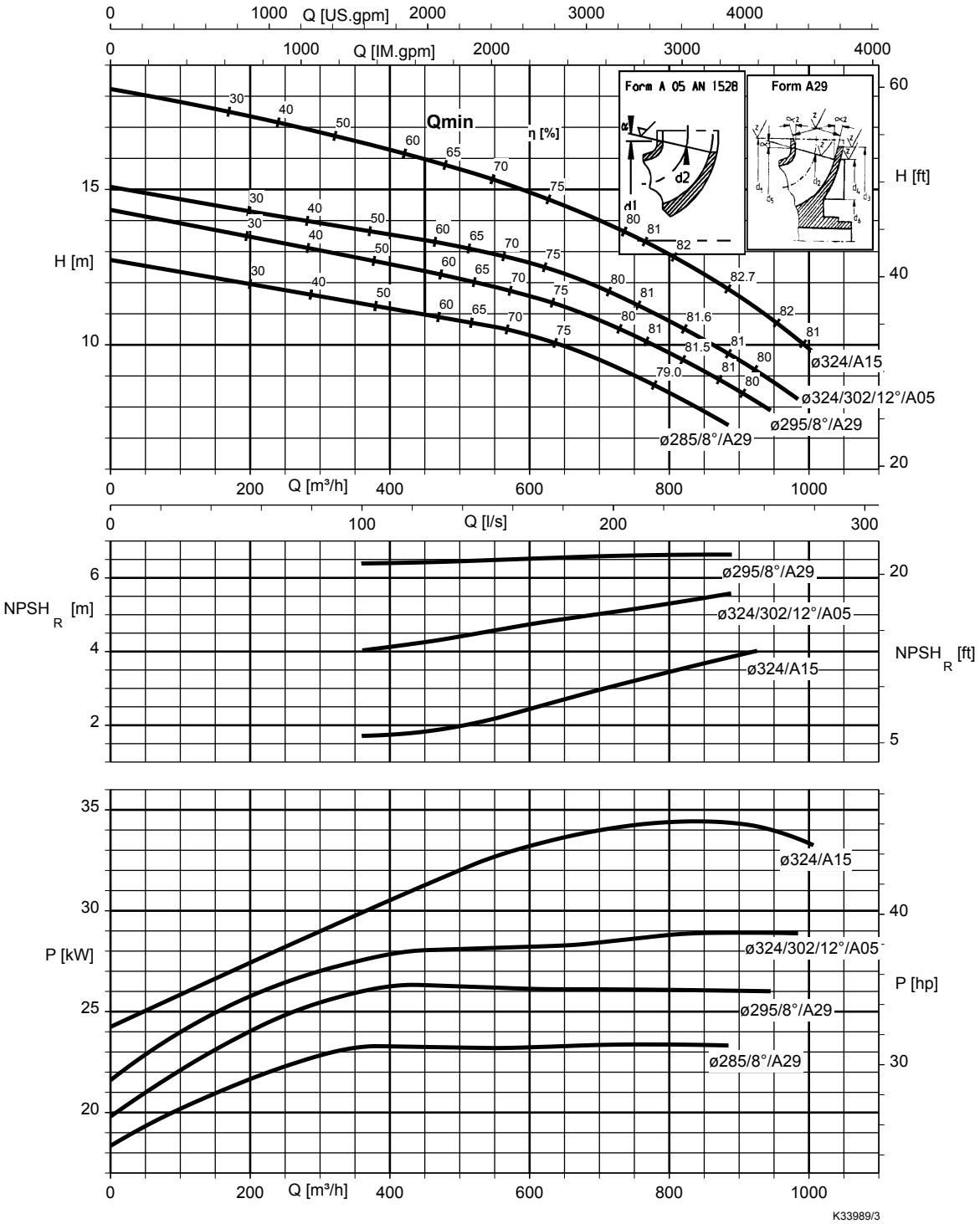
KWP K 200-200-501, n = 1160 min⁻¹



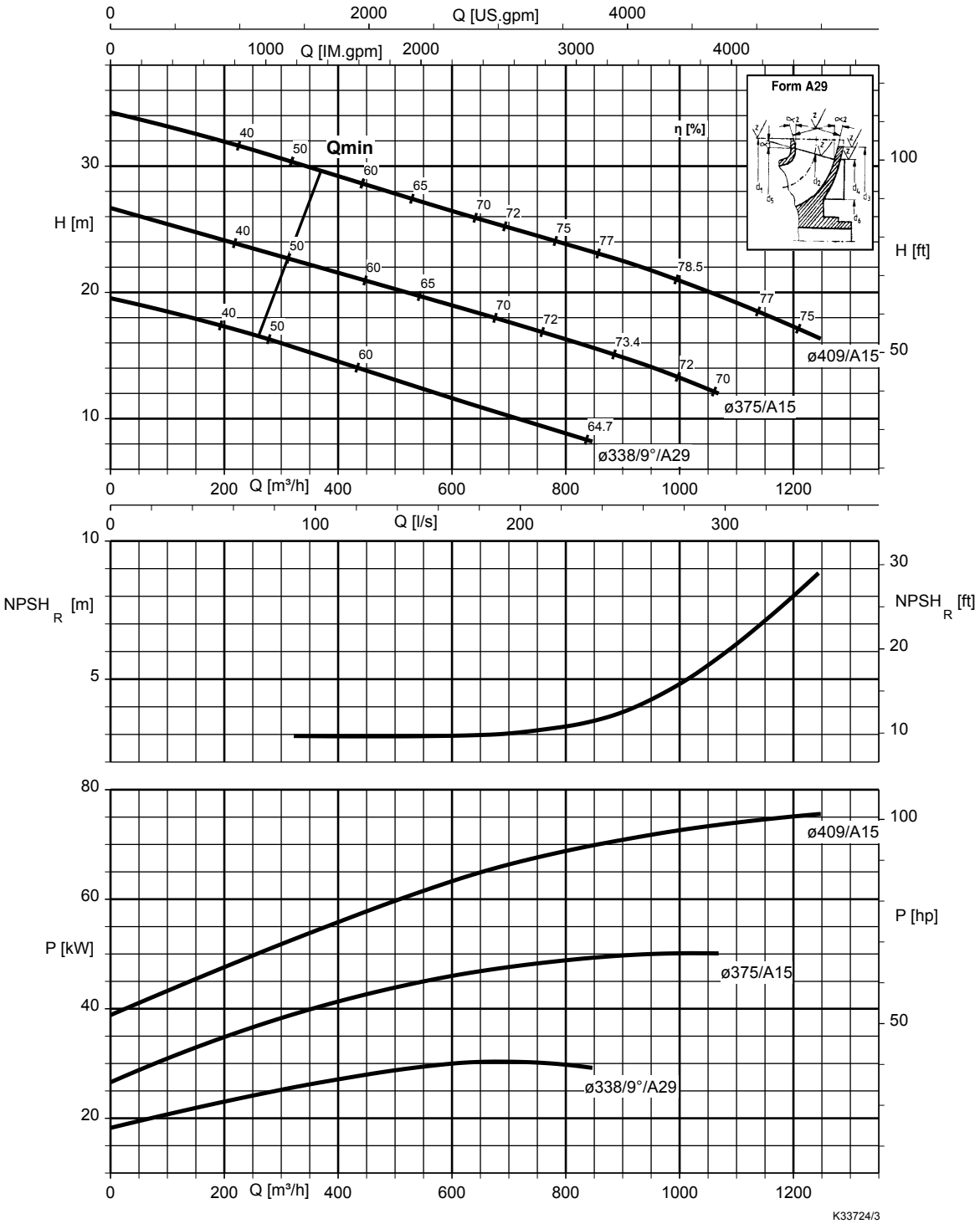
KWP K 200-200-503, n = 1160 min⁻¹



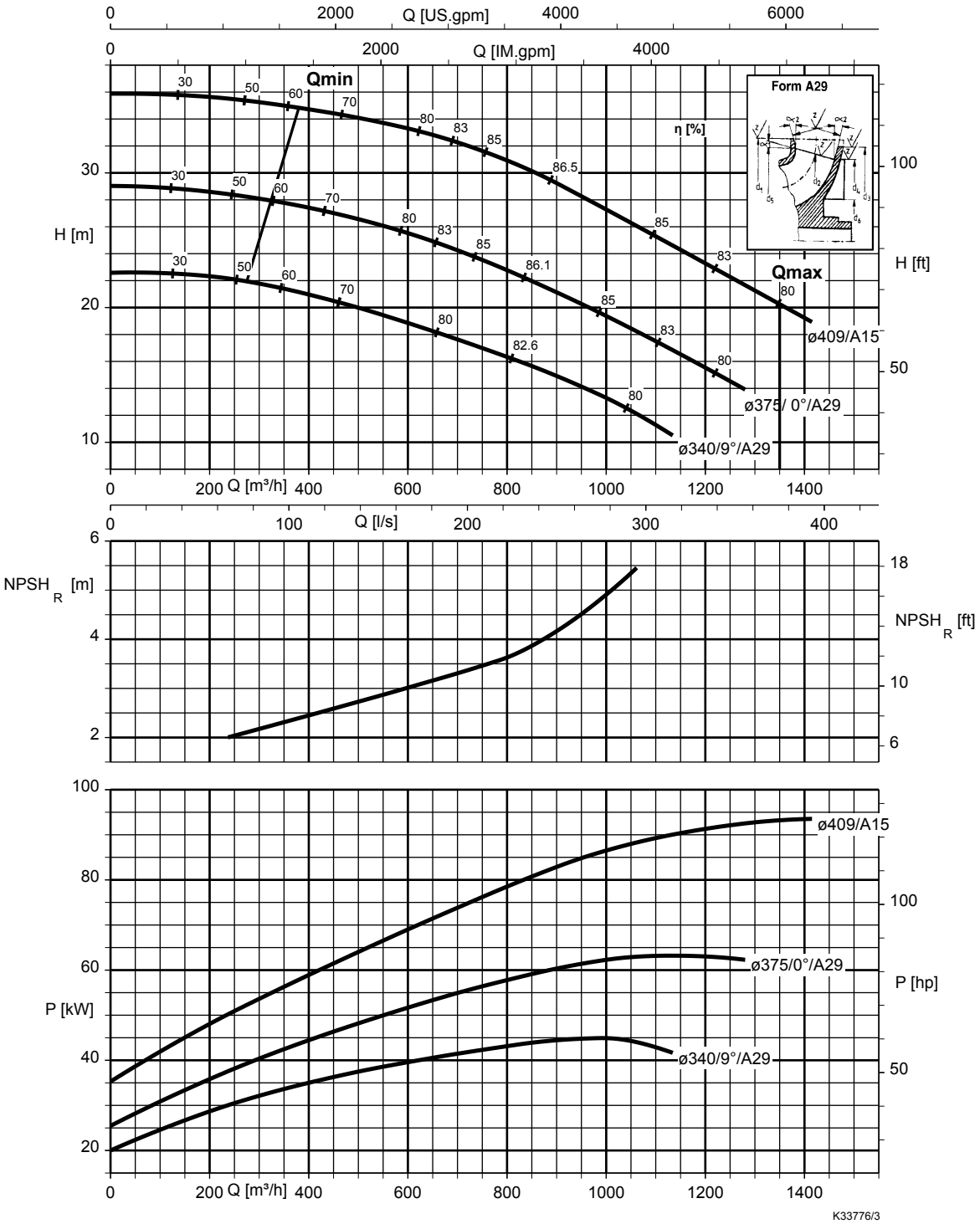
KWP K 250-250-315, n = 1160 min⁻¹



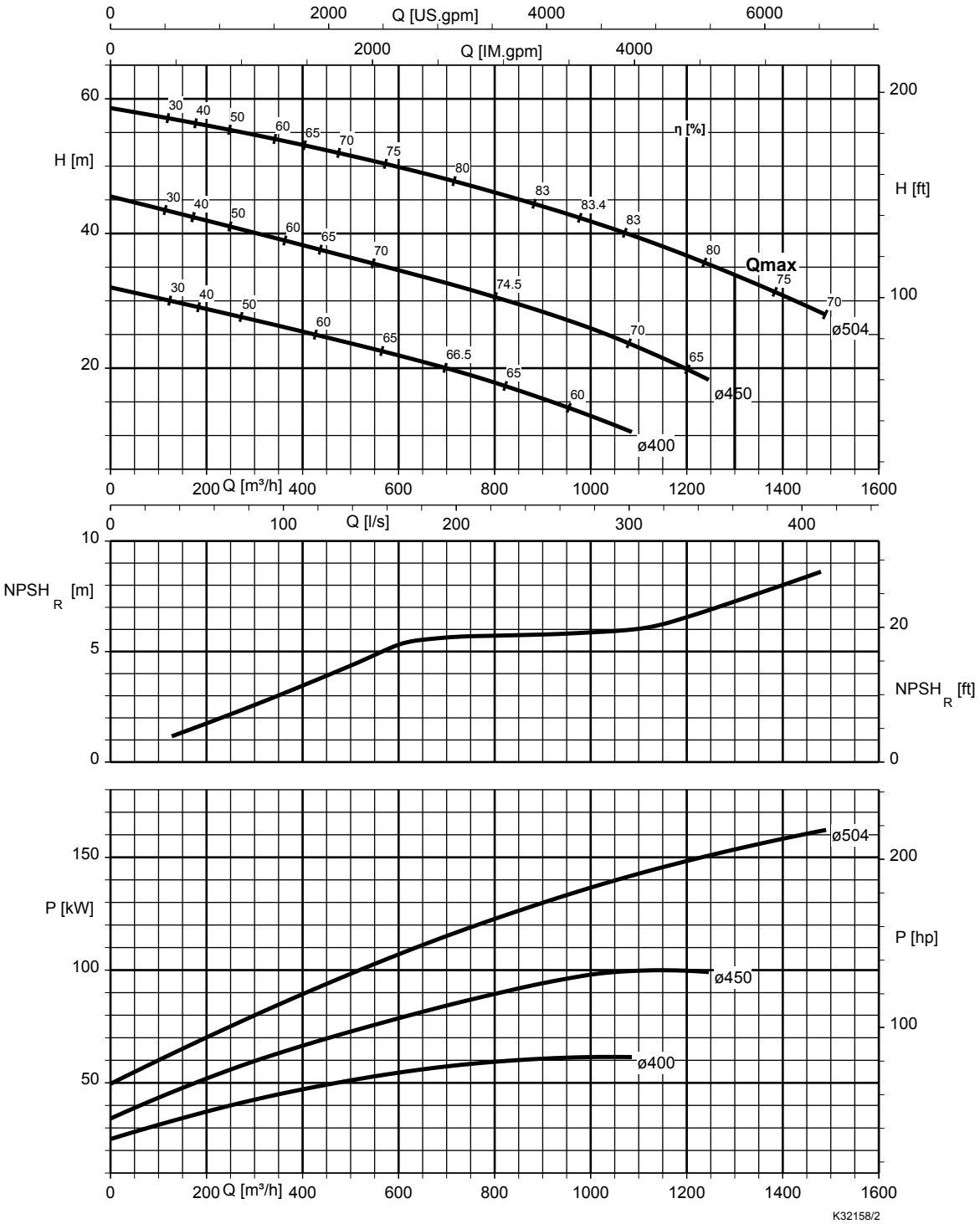
KWP K 250-250-400, n = 1160 min⁻¹



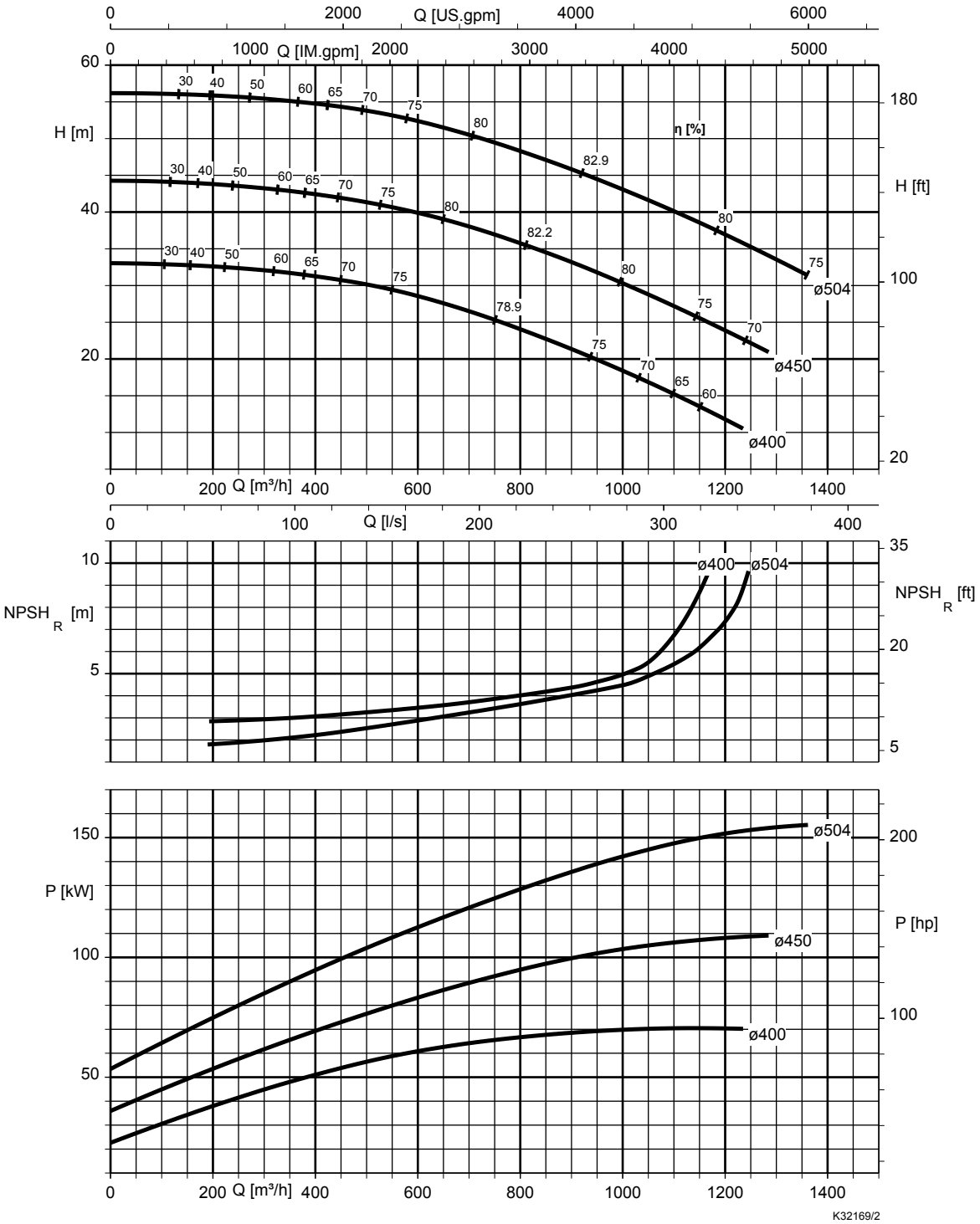
KWP K 250-250-403, n = 1160 min⁻¹



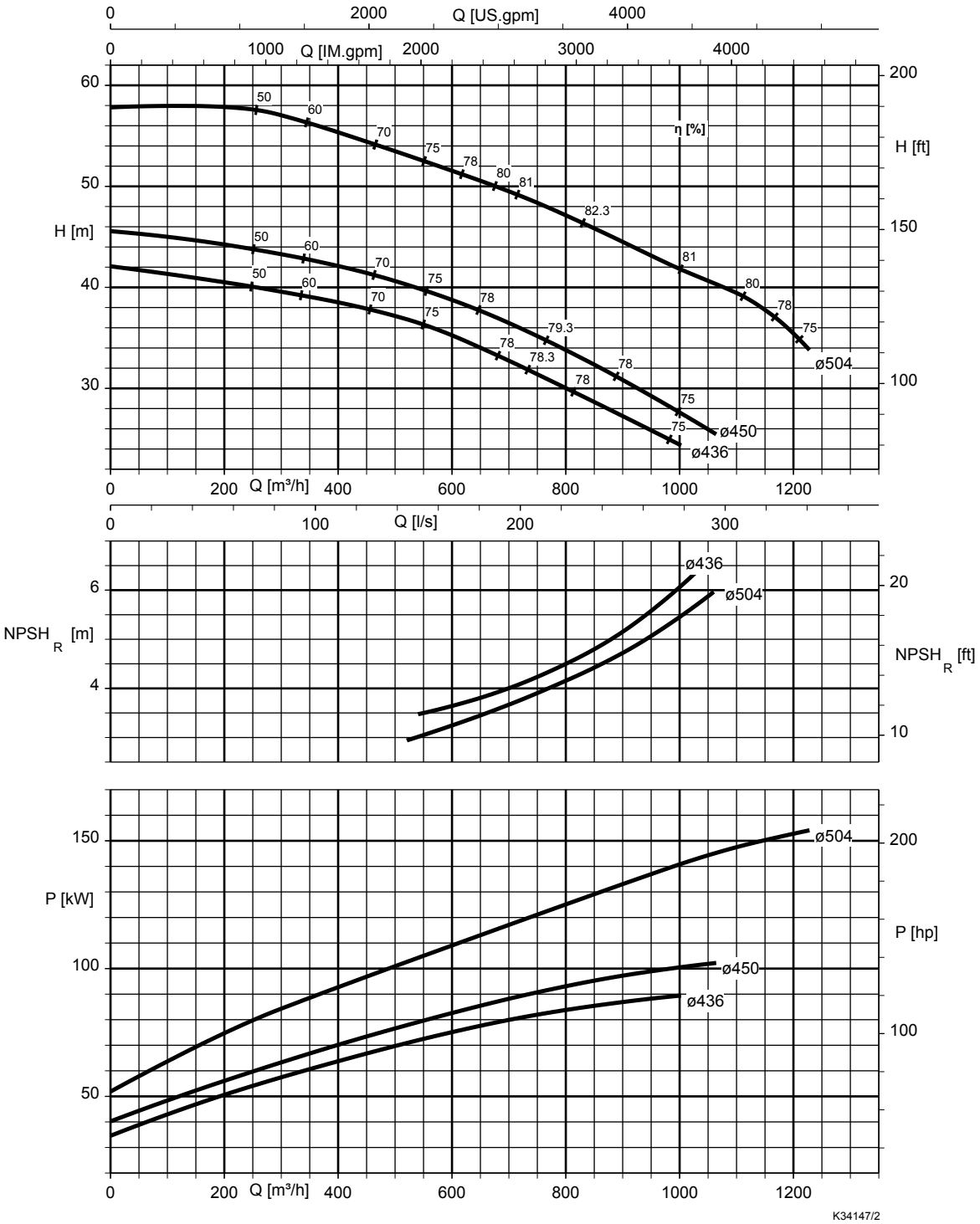
KWP K 250-250-500, n = 1160 min⁻¹



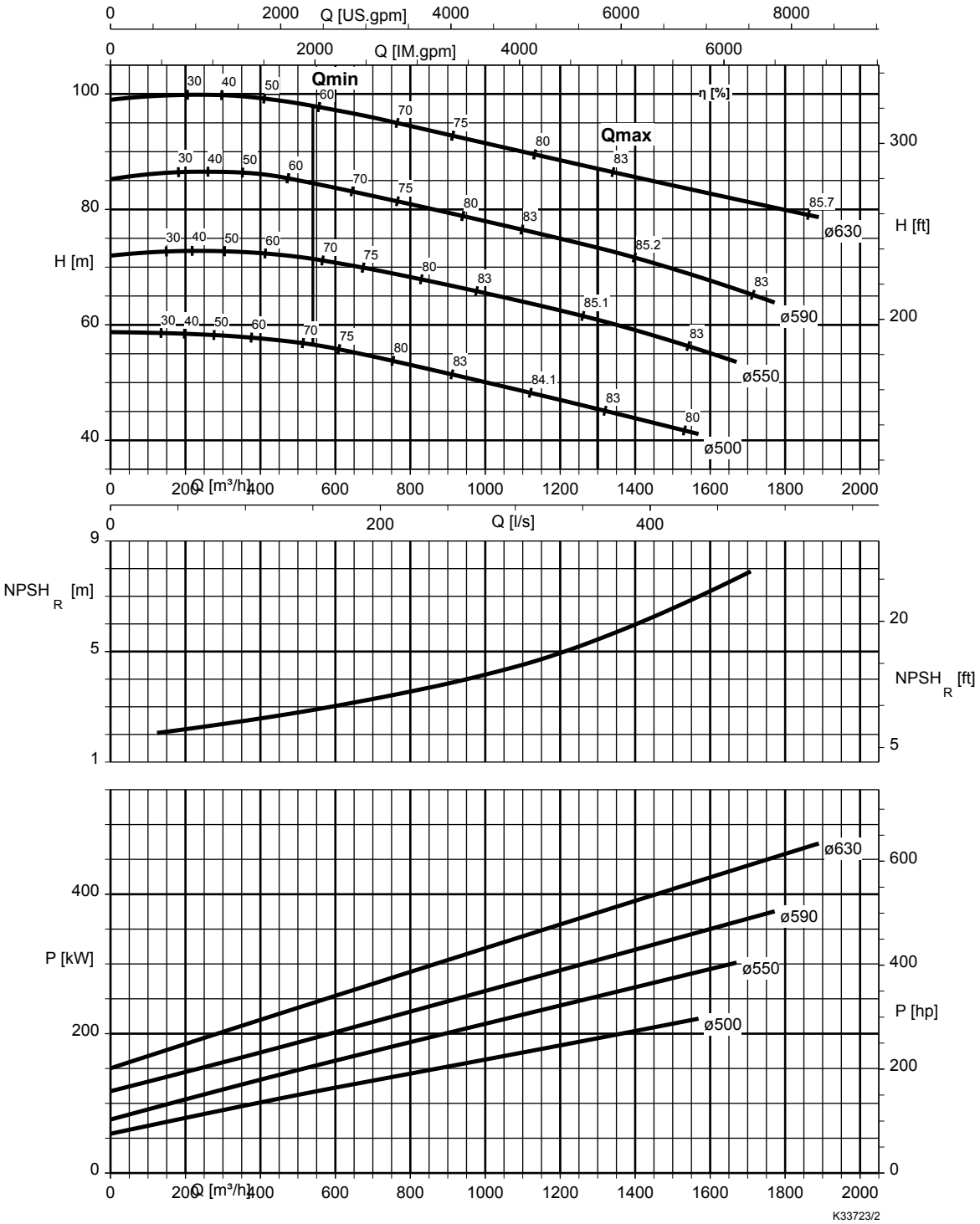
KWP K 250-250-503, n = 1160 min⁻¹



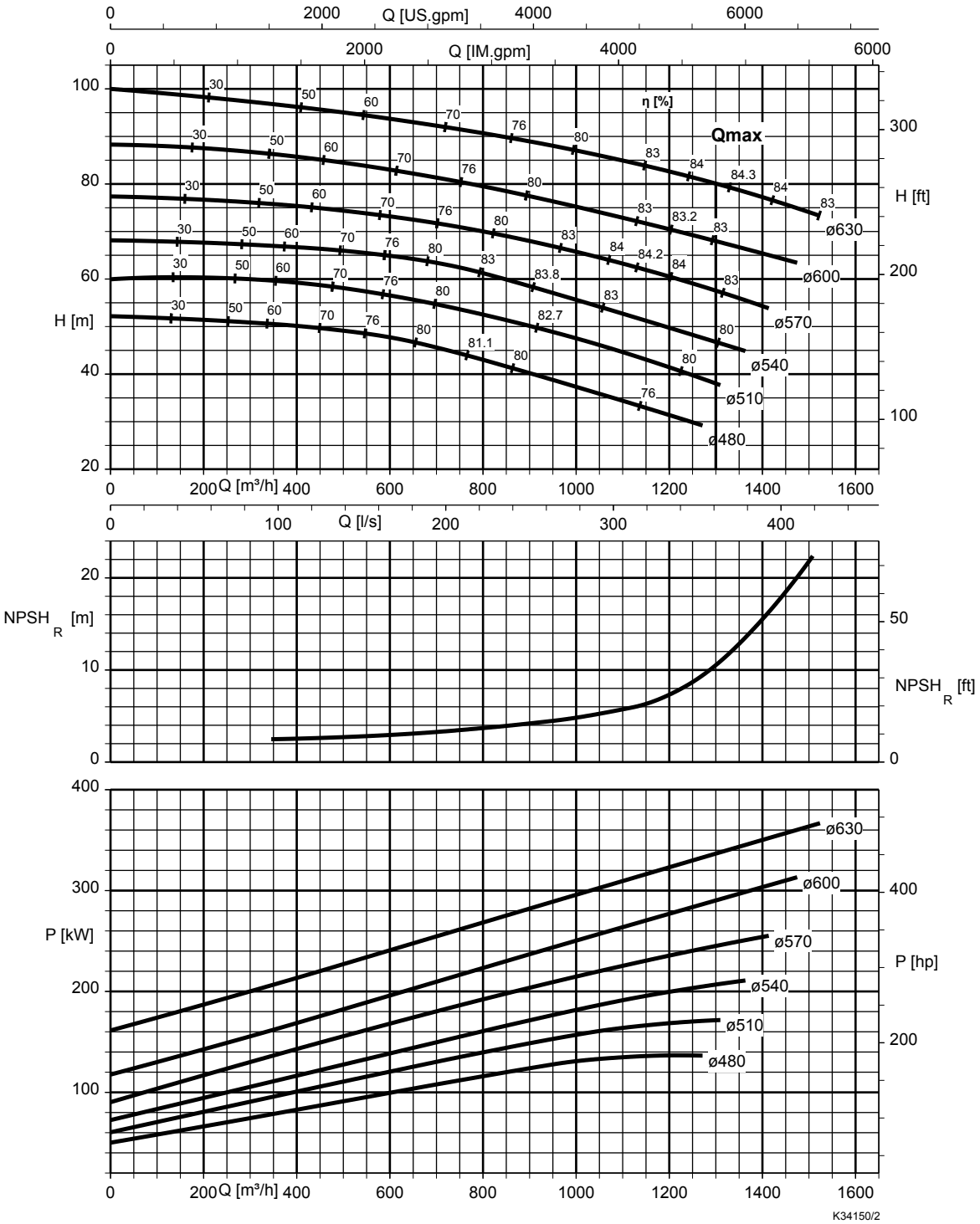
KWP K 250-250-505, n = 1160 min⁻¹



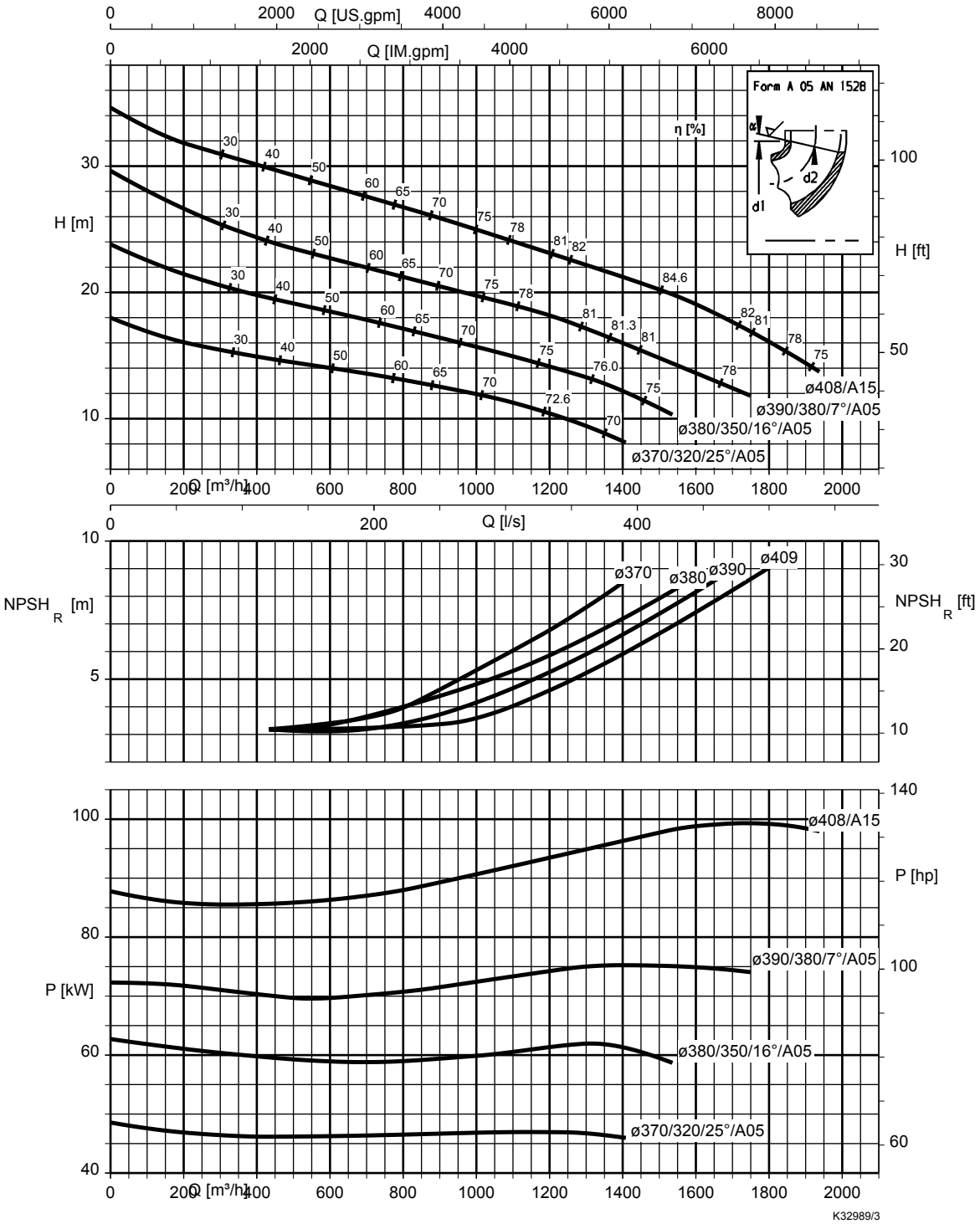
KWP K 250-250-630, n = 1160 min⁻¹



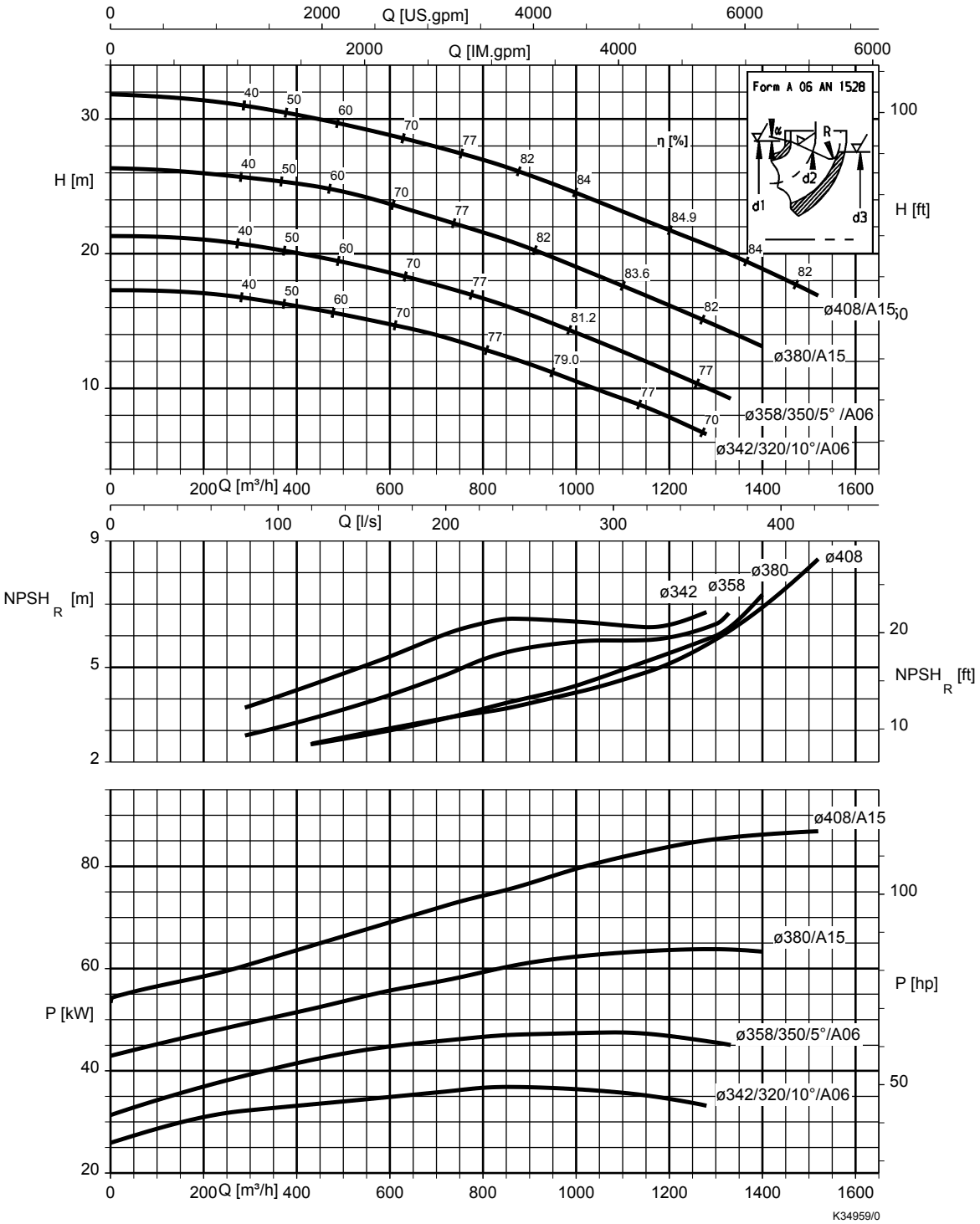
KWP K 250-250-634, n = 1160 min⁻¹



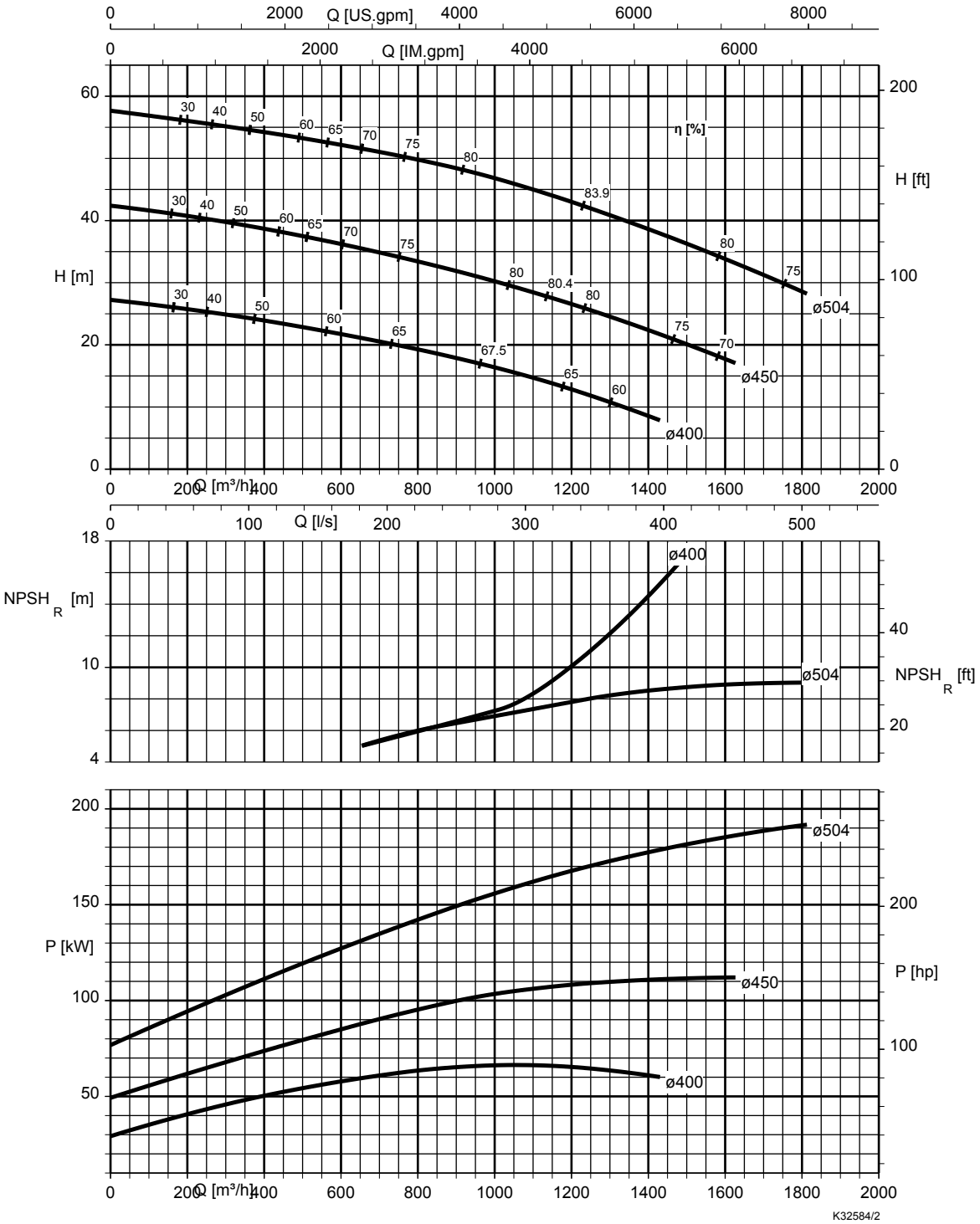
KWP K 300-300-400, n = 1160 min⁻¹



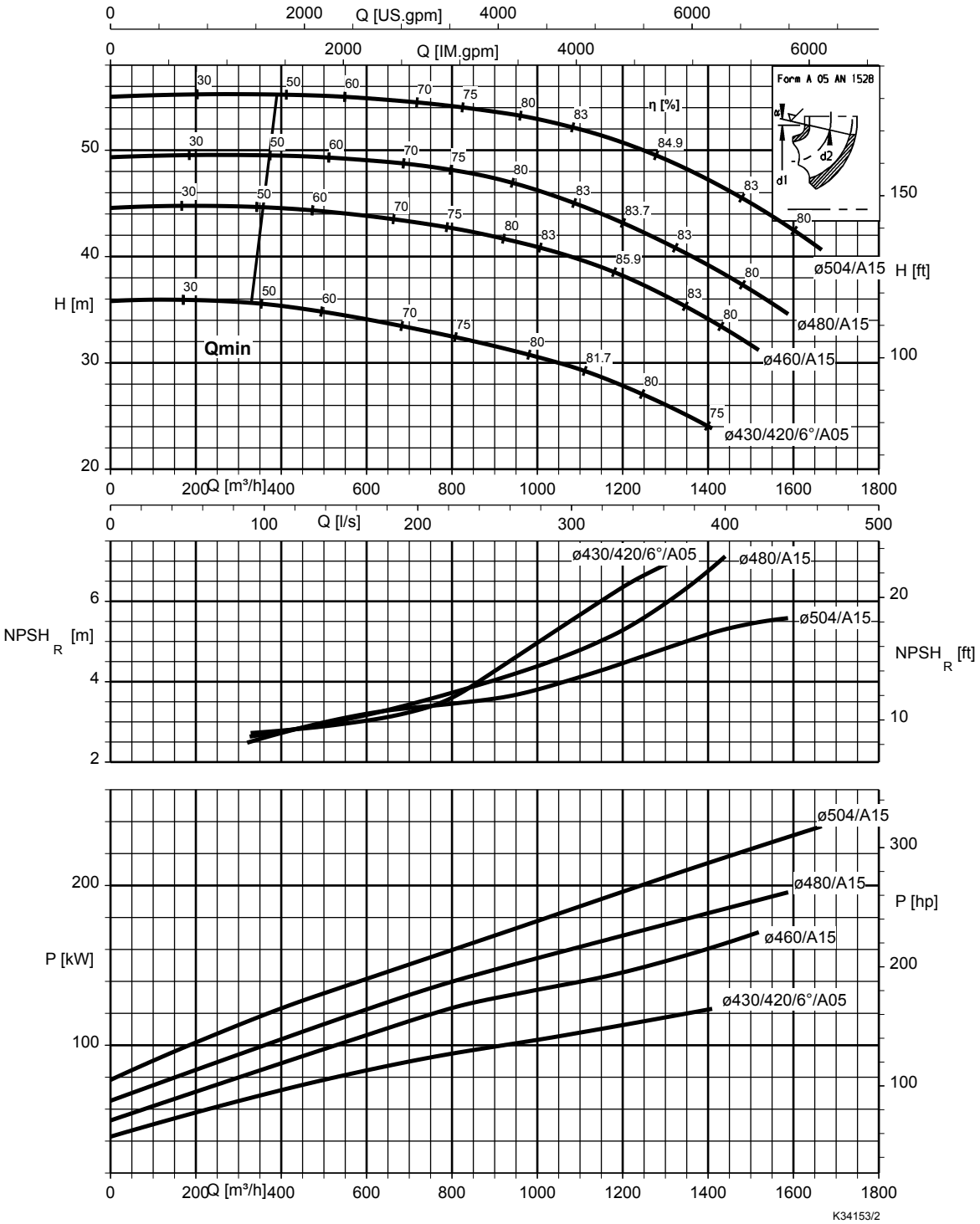
KWP K 300-300-401, n = 1160 min⁻¹



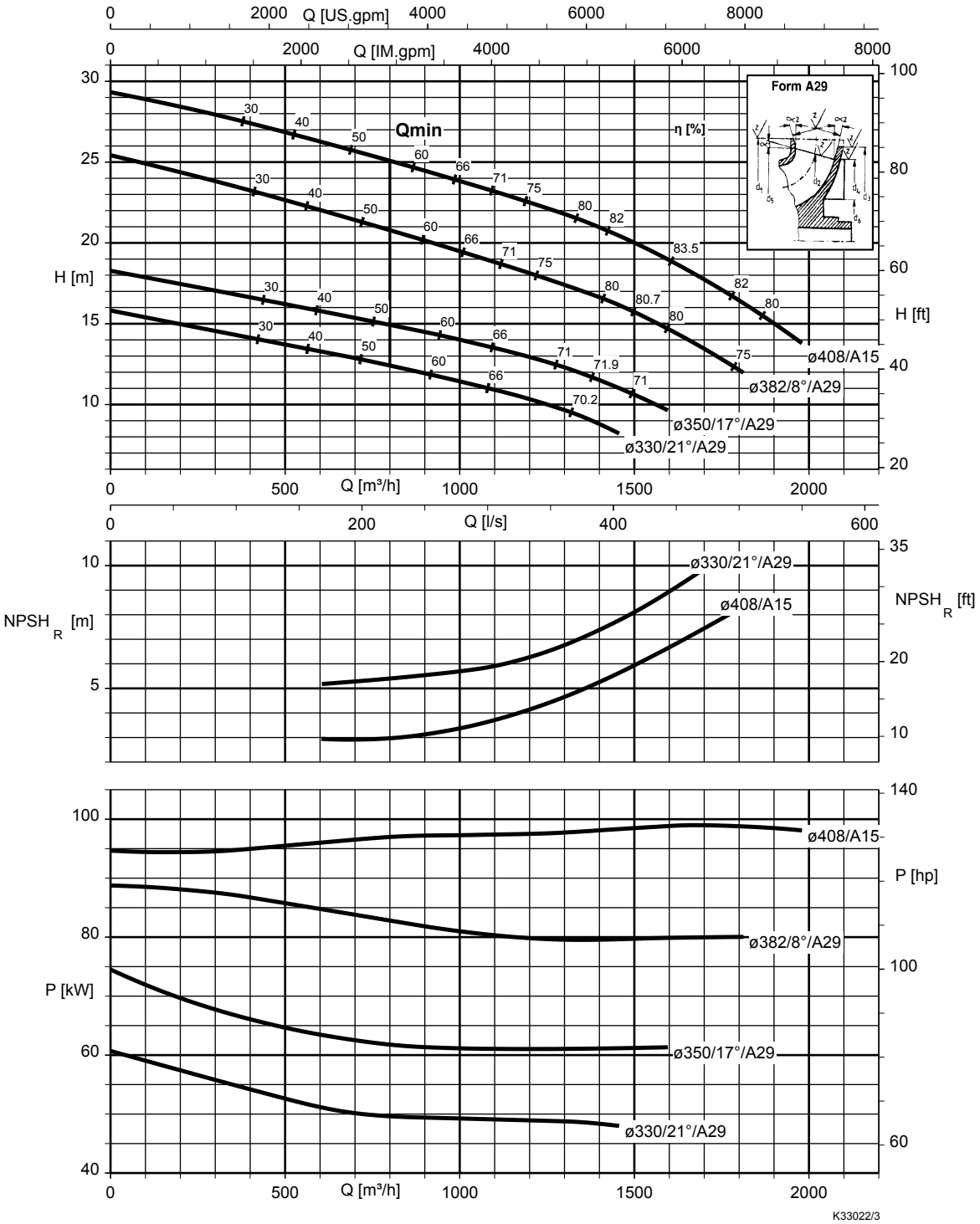
KWP K 300-300-500, n = 1160 min⁻¹



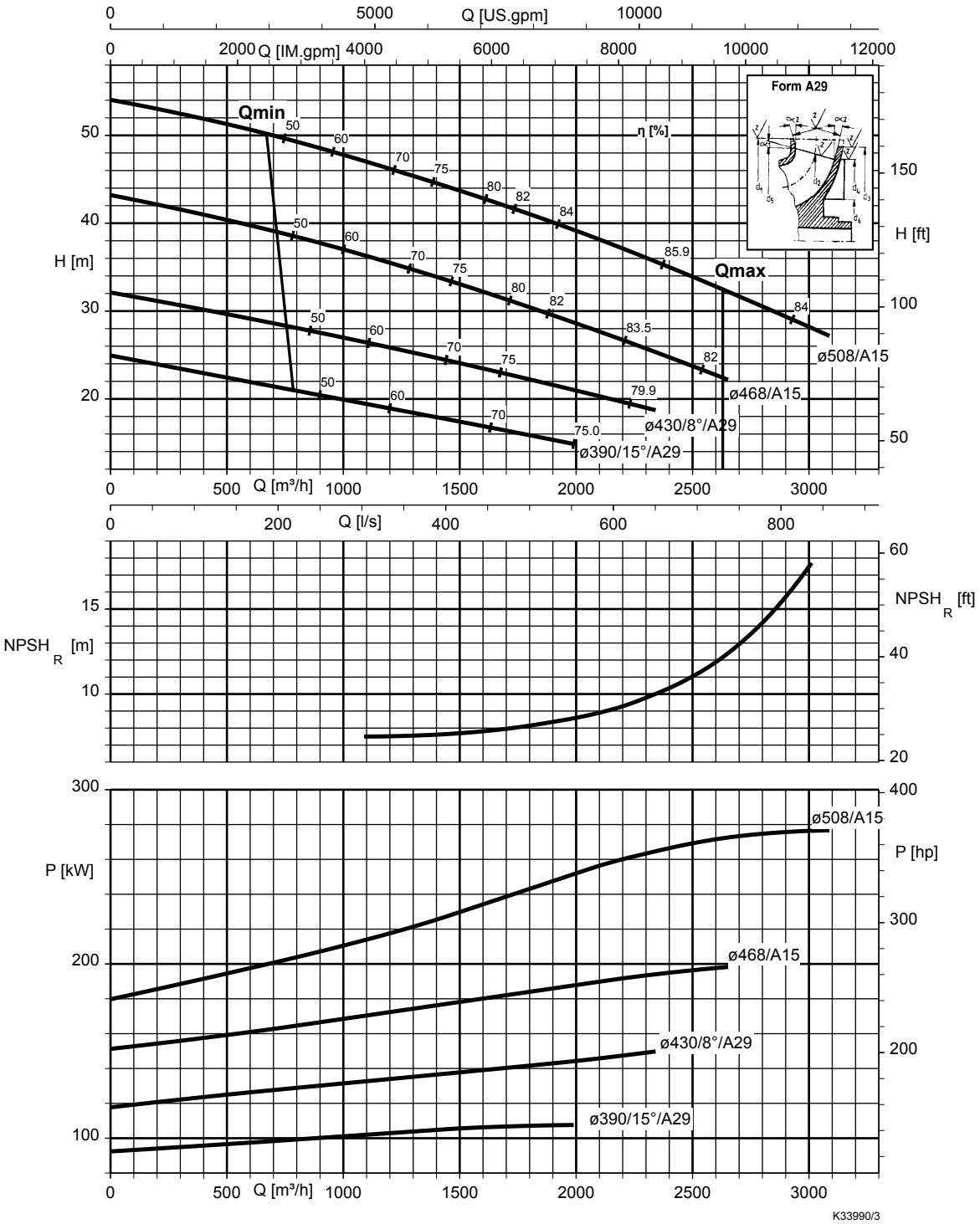
KWP K 300-300-503, n = 1160 min⁻¹



KWP K 350-350-400, n = 1160 min⁻¹



KWP K 350-350-500, n = 1160 min⁻¹



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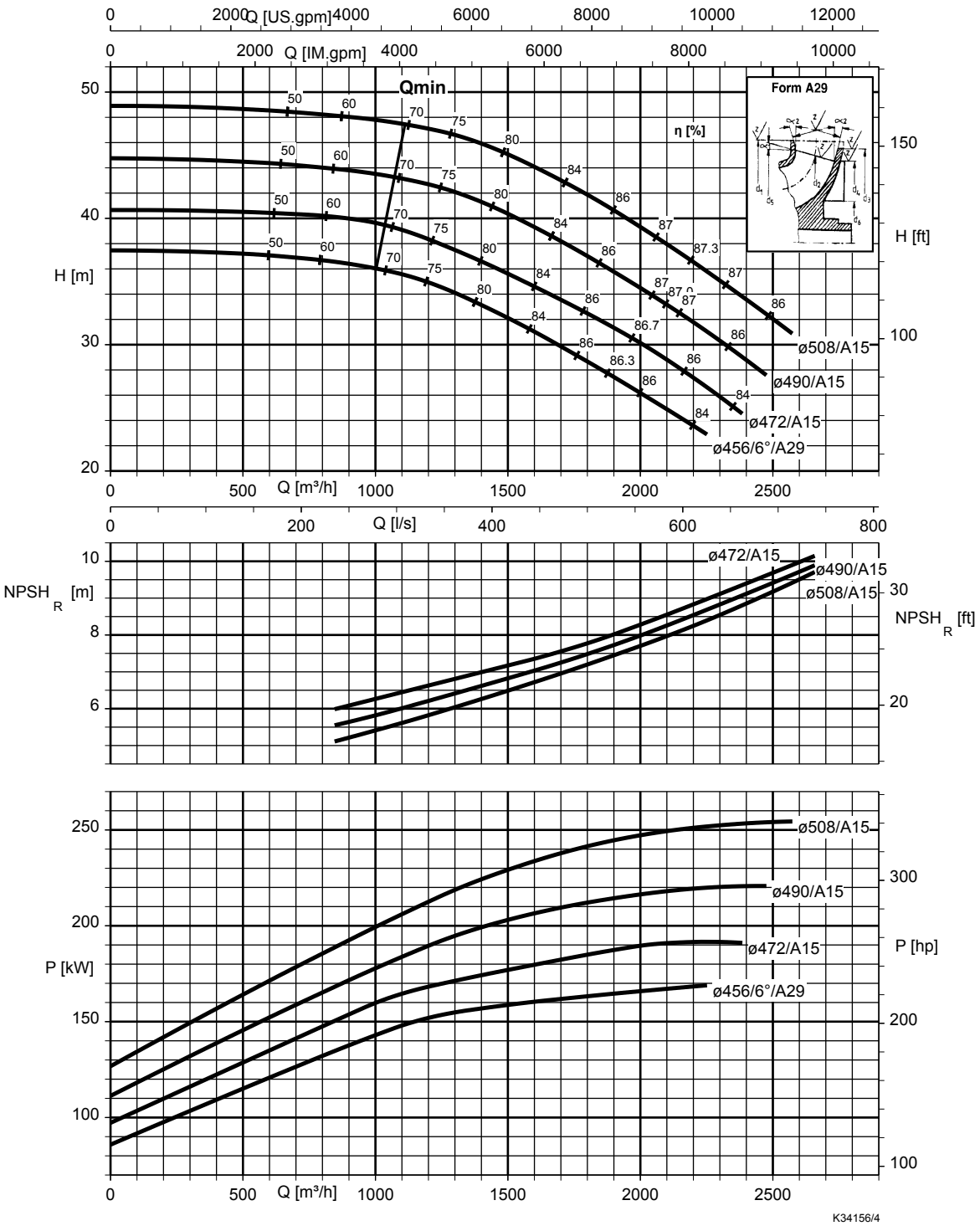
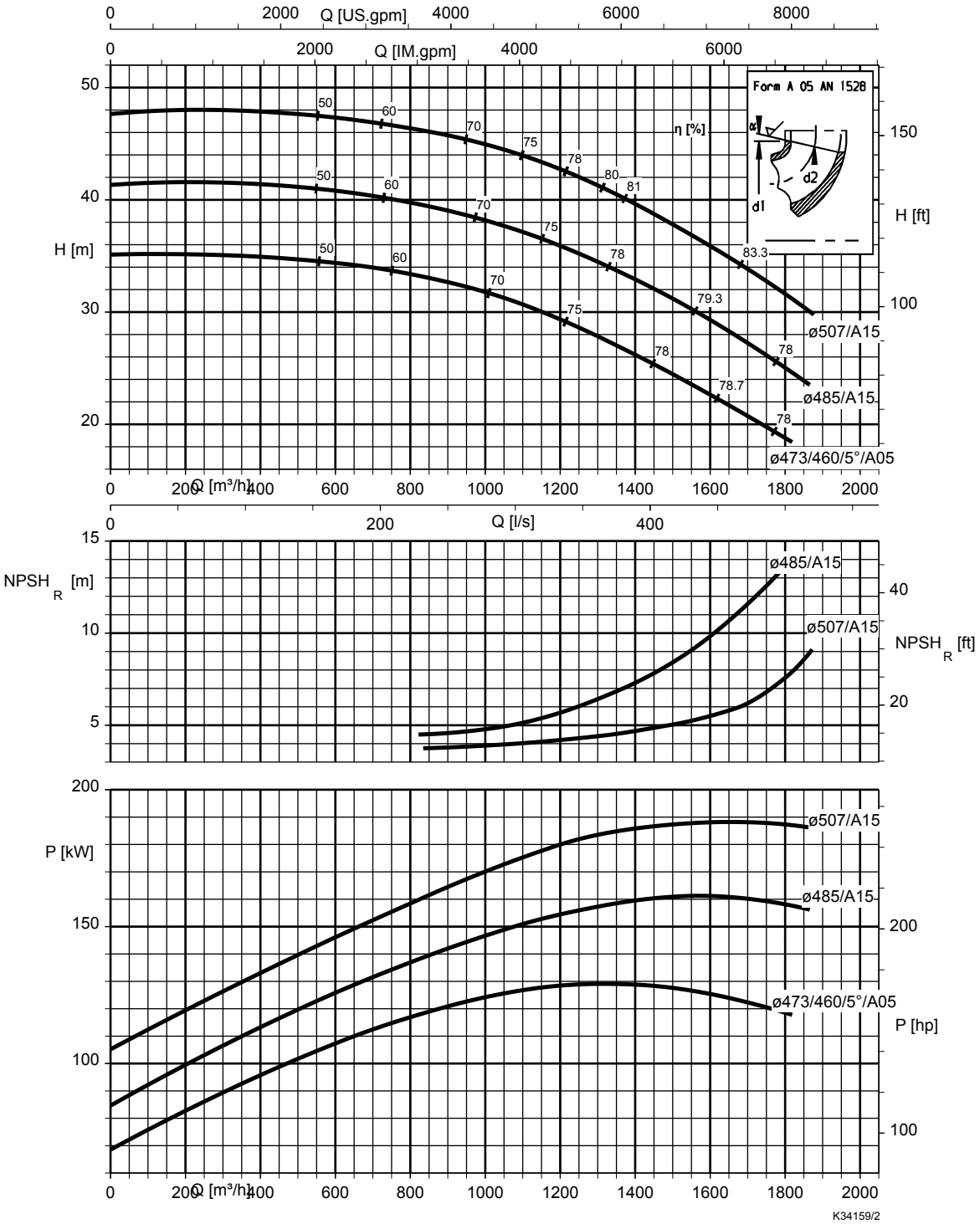
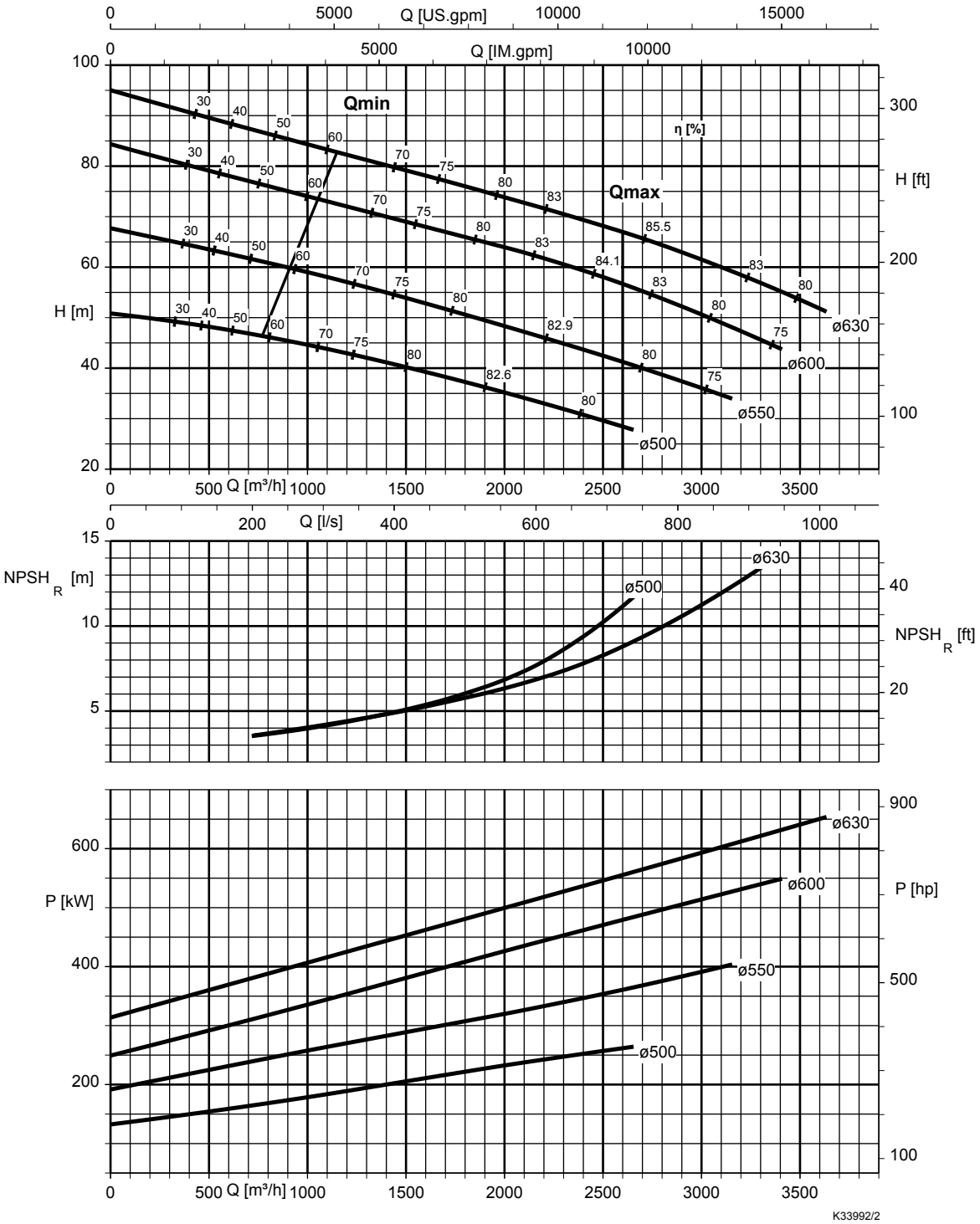


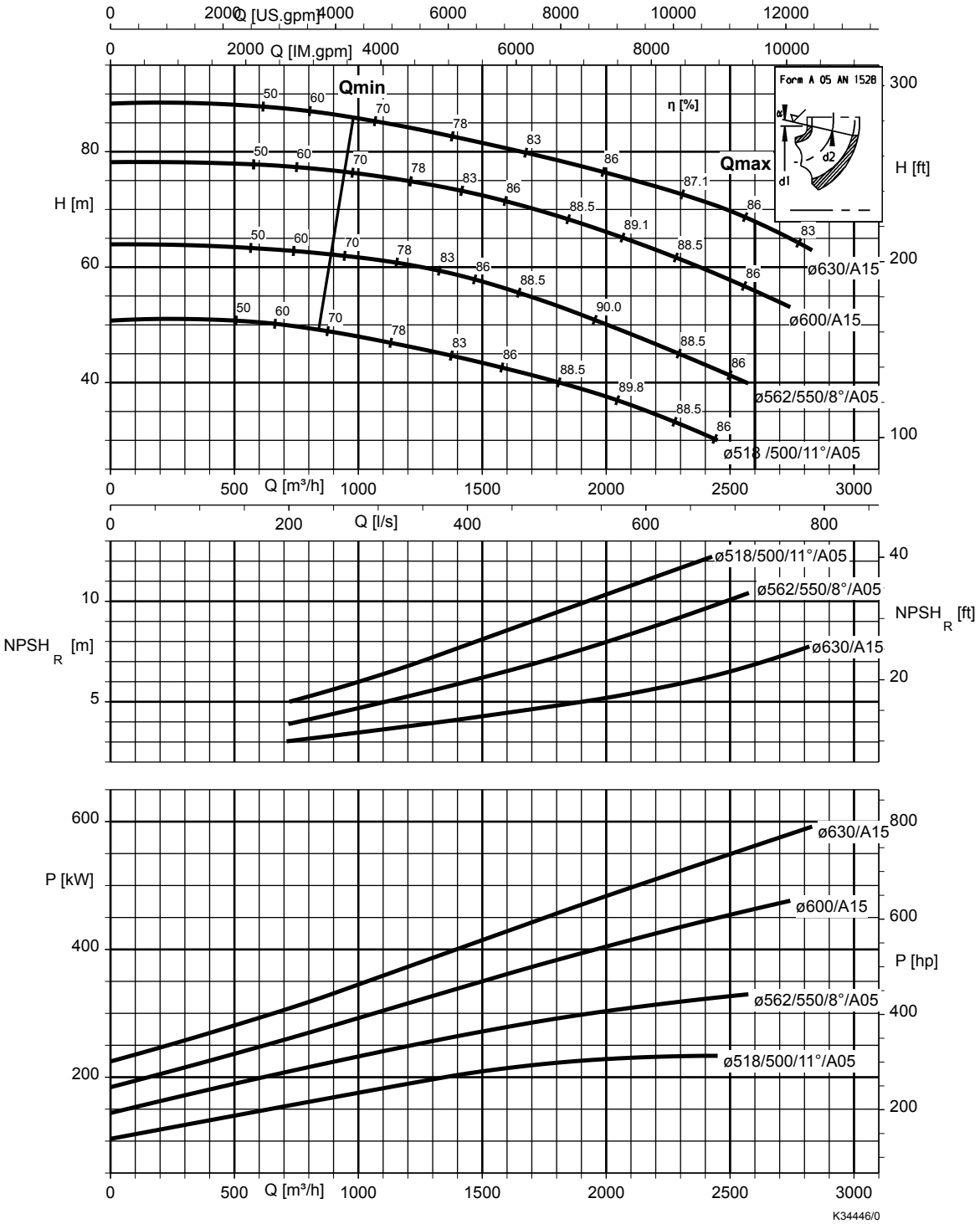
KWP K 350-350-504, n = 1160 min⁻¹



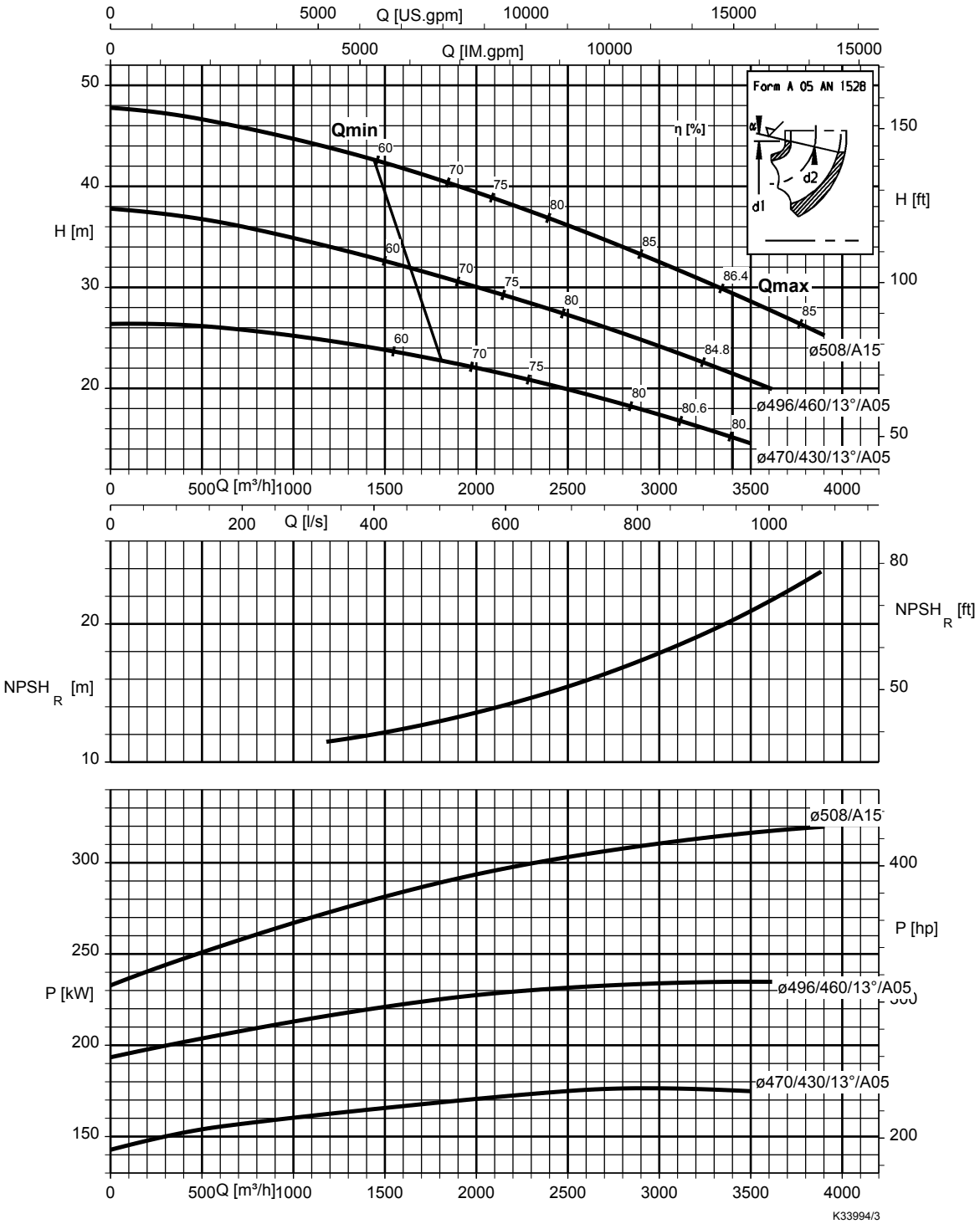
KWP K 350-350-630, n = 1160 min⁻¹



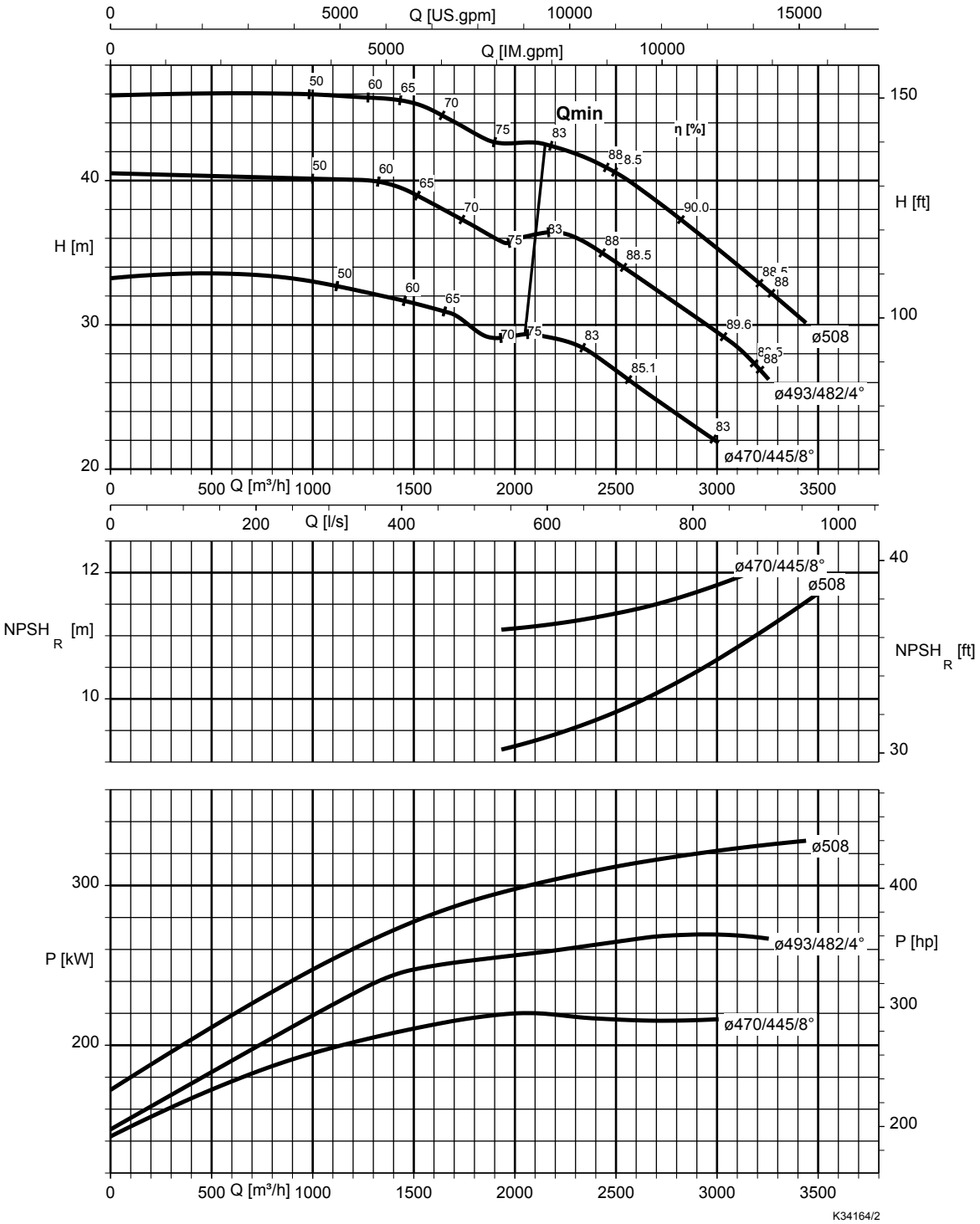
KWP K 350-350-633, n = 1160 min⁻¹



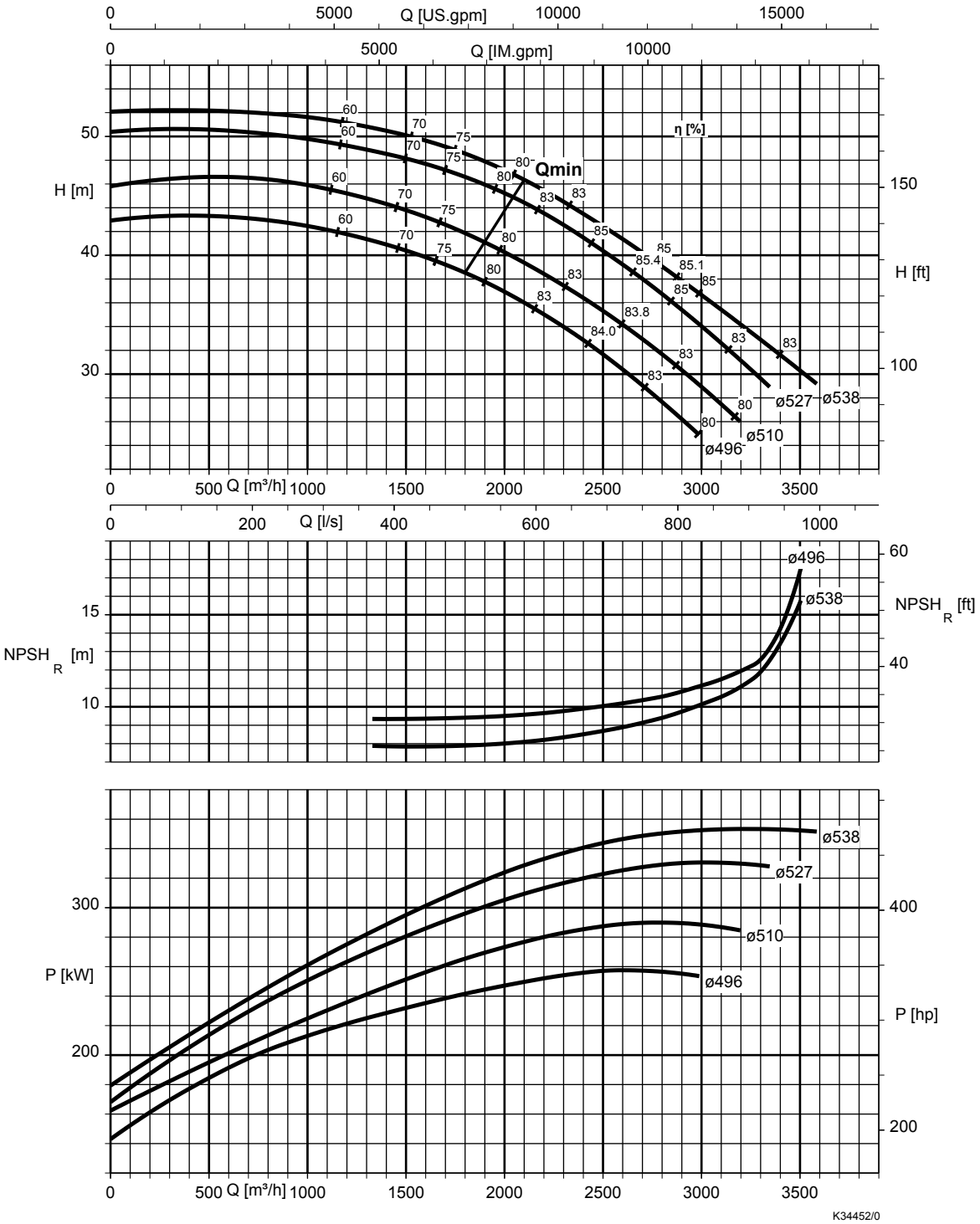
KWP K 400-400-500, n = 1160 min⁻¹



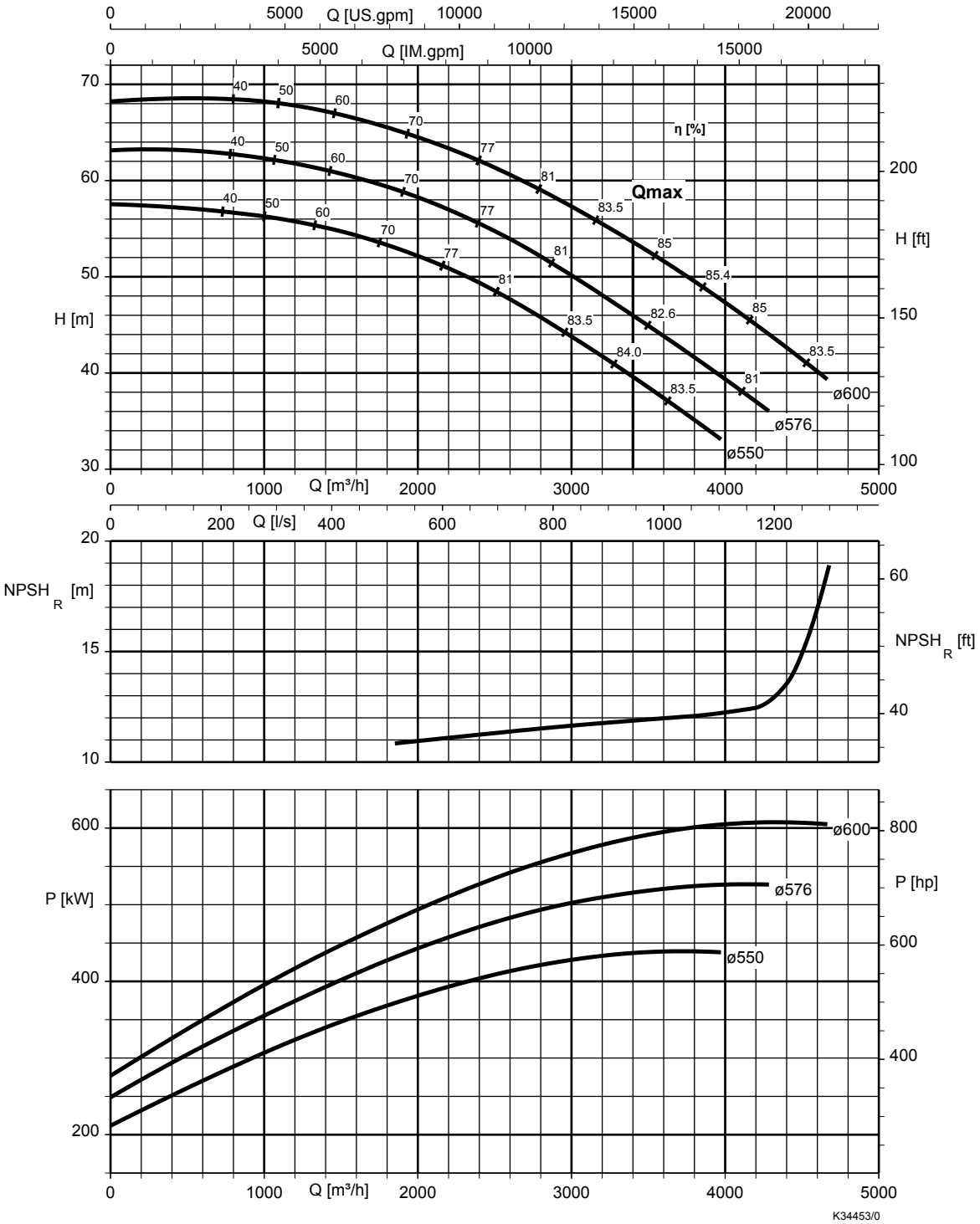
KWP K 400-400-503, n = 1160 min⁻¹



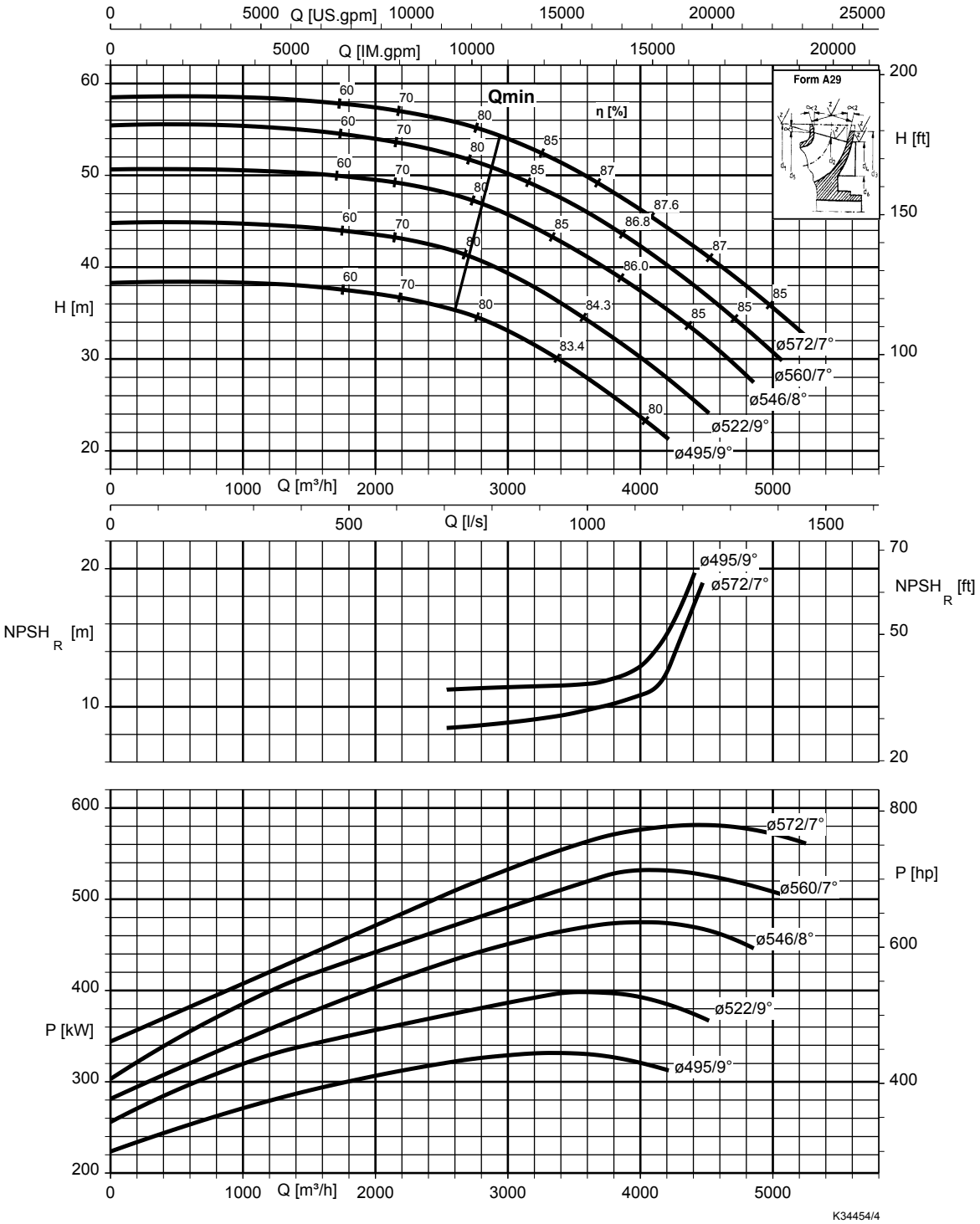
KWP K 400-400-533, n = 1160 min⁻¹



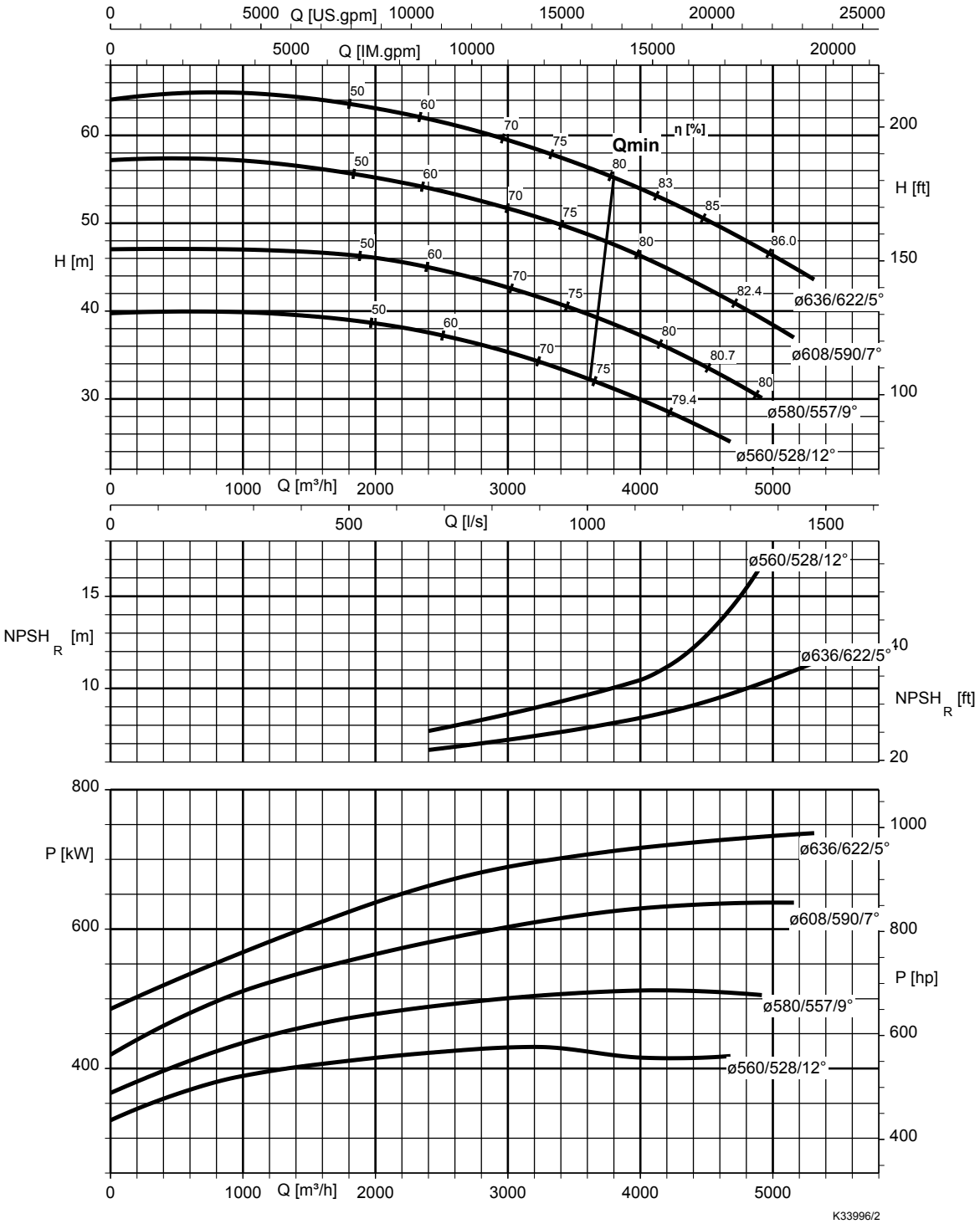
KWP K 400-400-583, n = 1160 min⁻¹



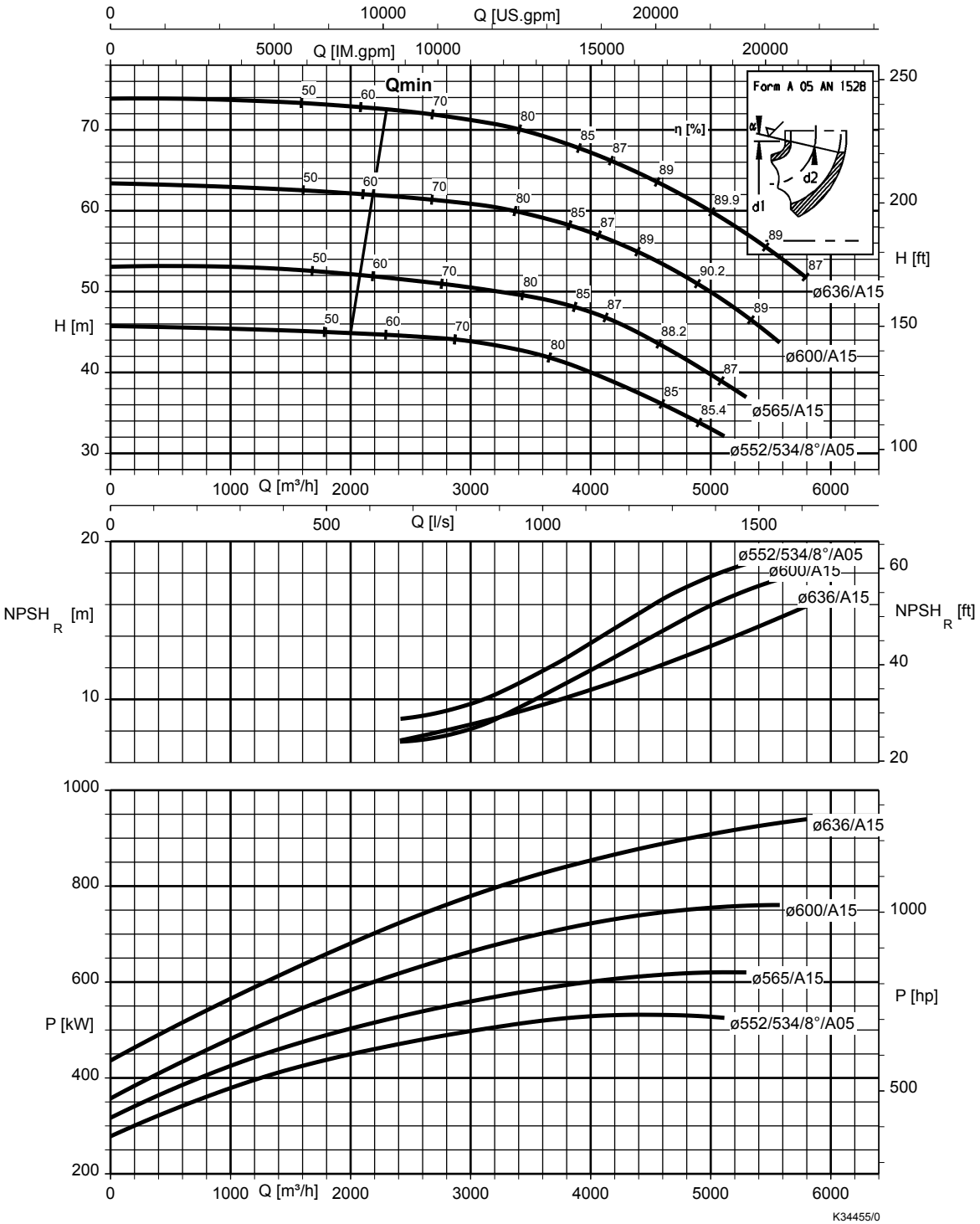
KWP K 500-500-544, n = 1160 min⁻¹



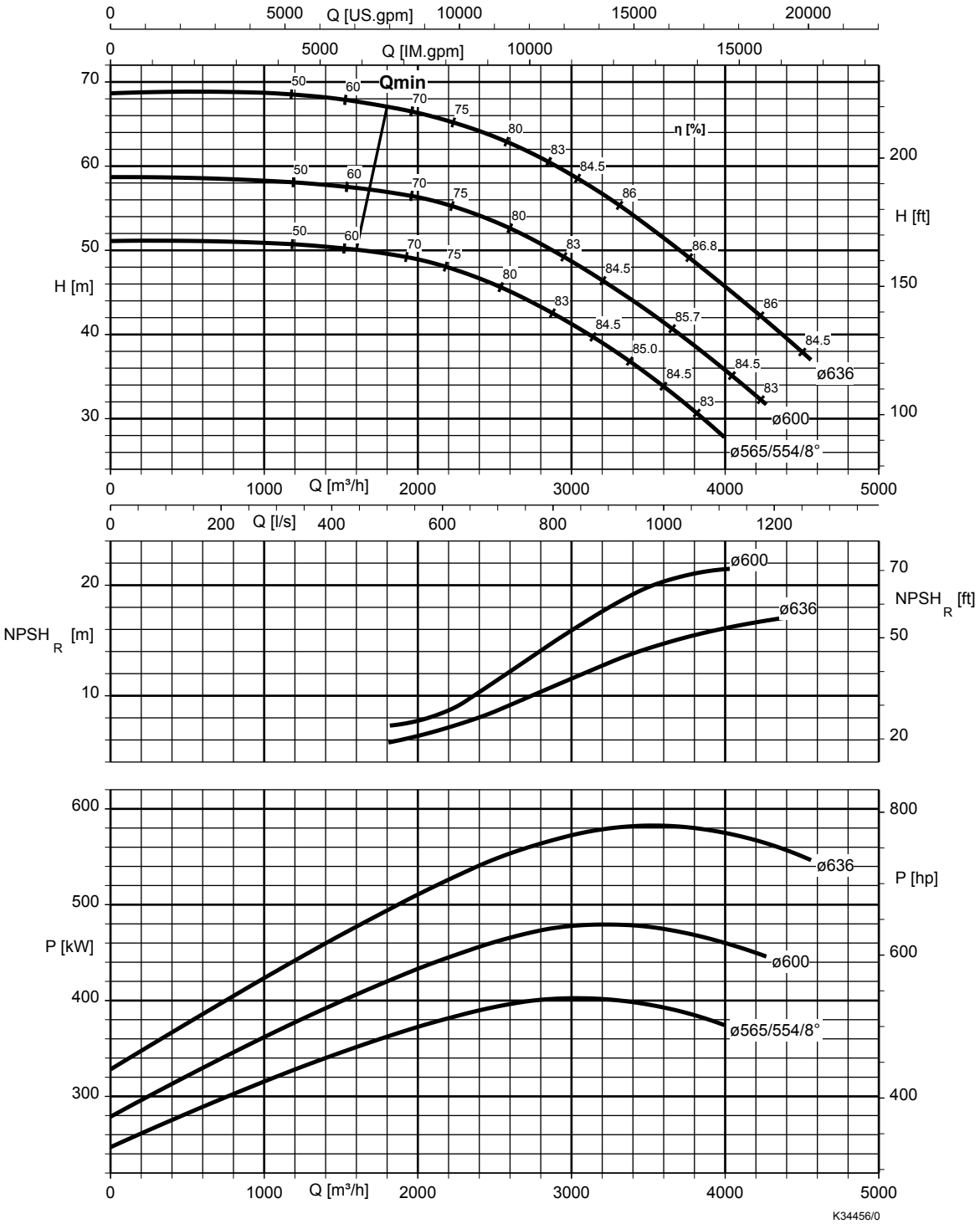
KWP K 500-500-630, n = 1160 min⁻¹



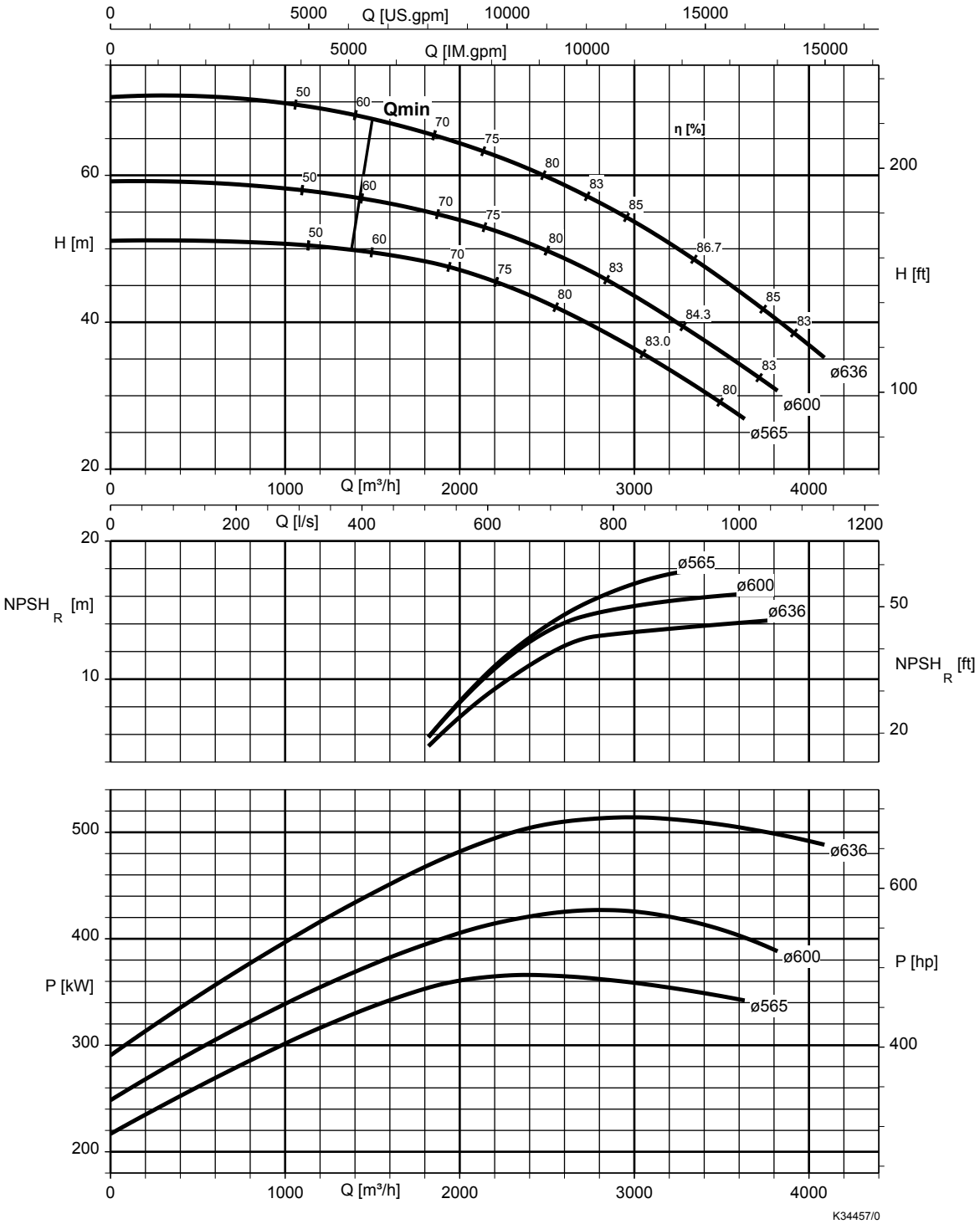
KWP K 500-500-633, n = 1160 min⁻¹



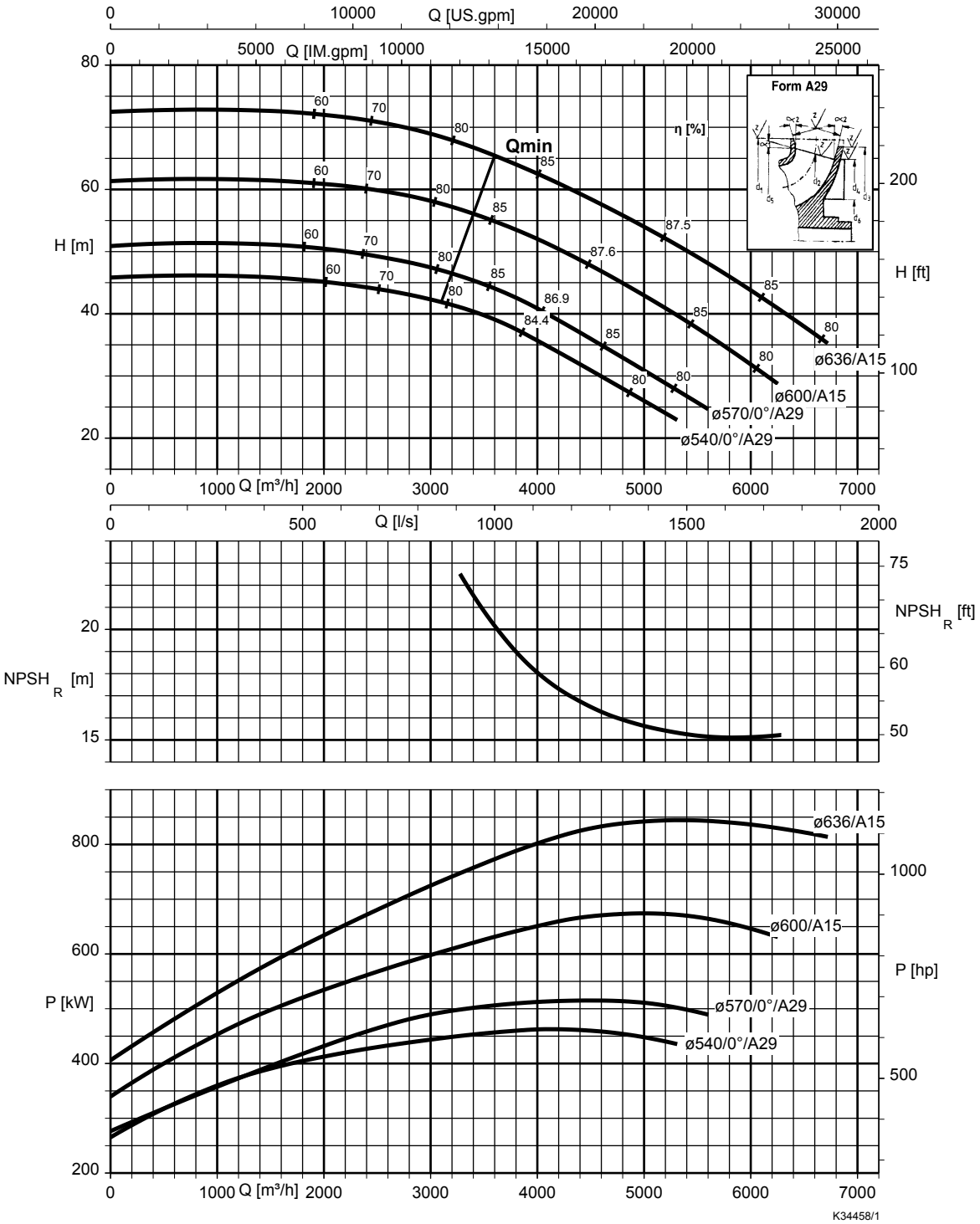
KWP K 500-500-634, n = 1160 min⁻¹



KWP K 500-500-635, n = 1160 min⁻¹

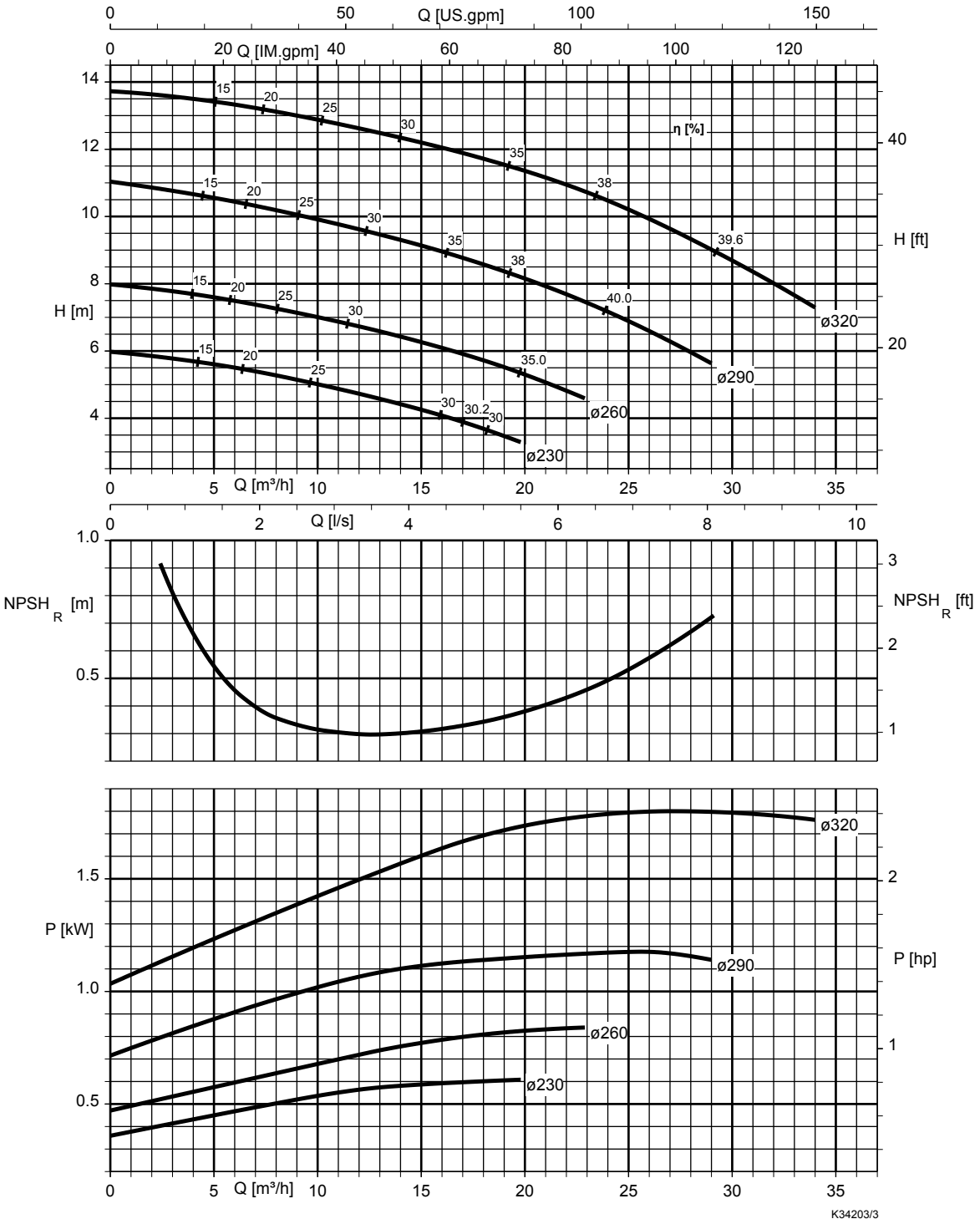


KWP K 500-500-637, n = 1160 min⁻¹

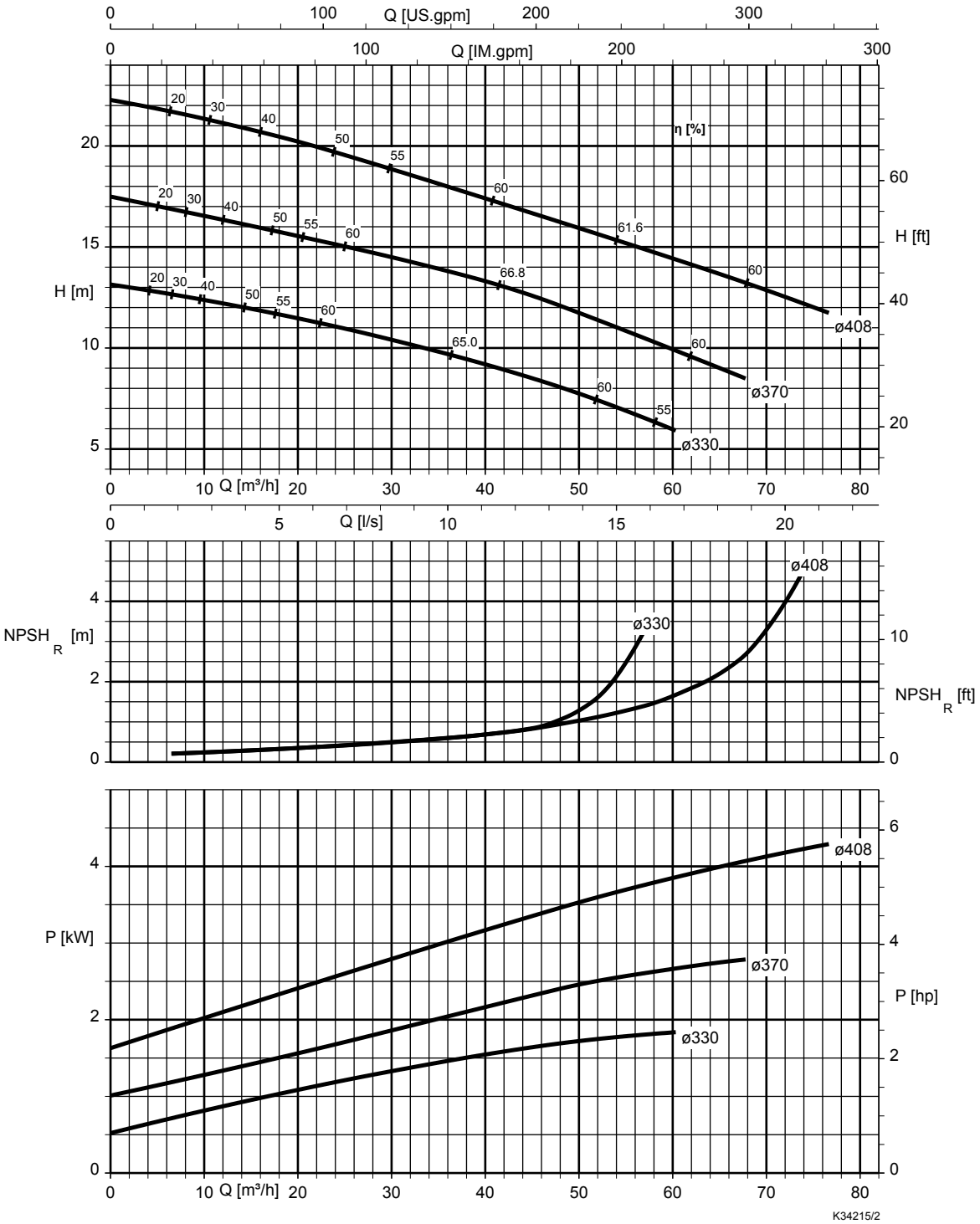


n = 875 min⁻¹

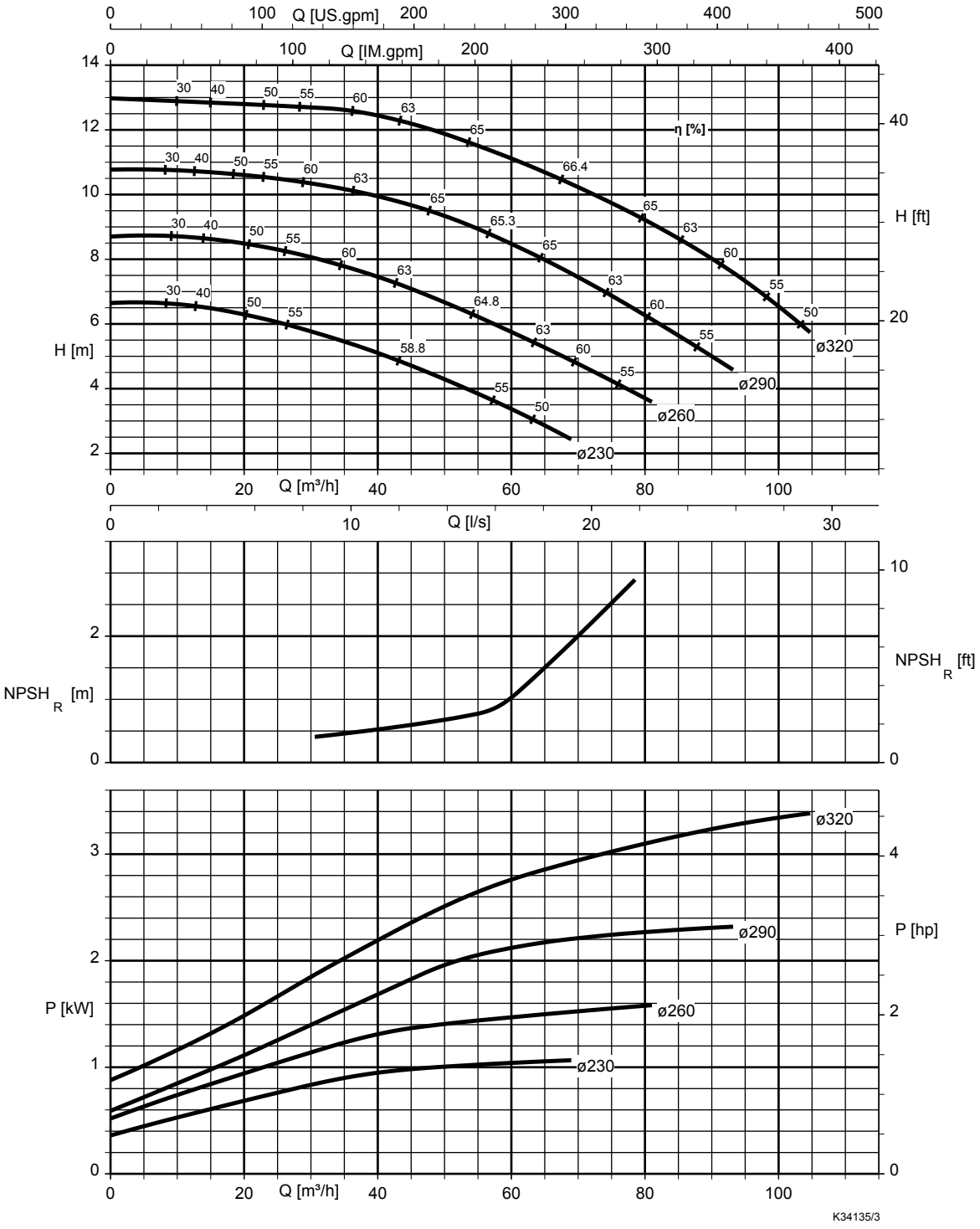
KWP K 080-040-0315, n = 875 min⁻¹



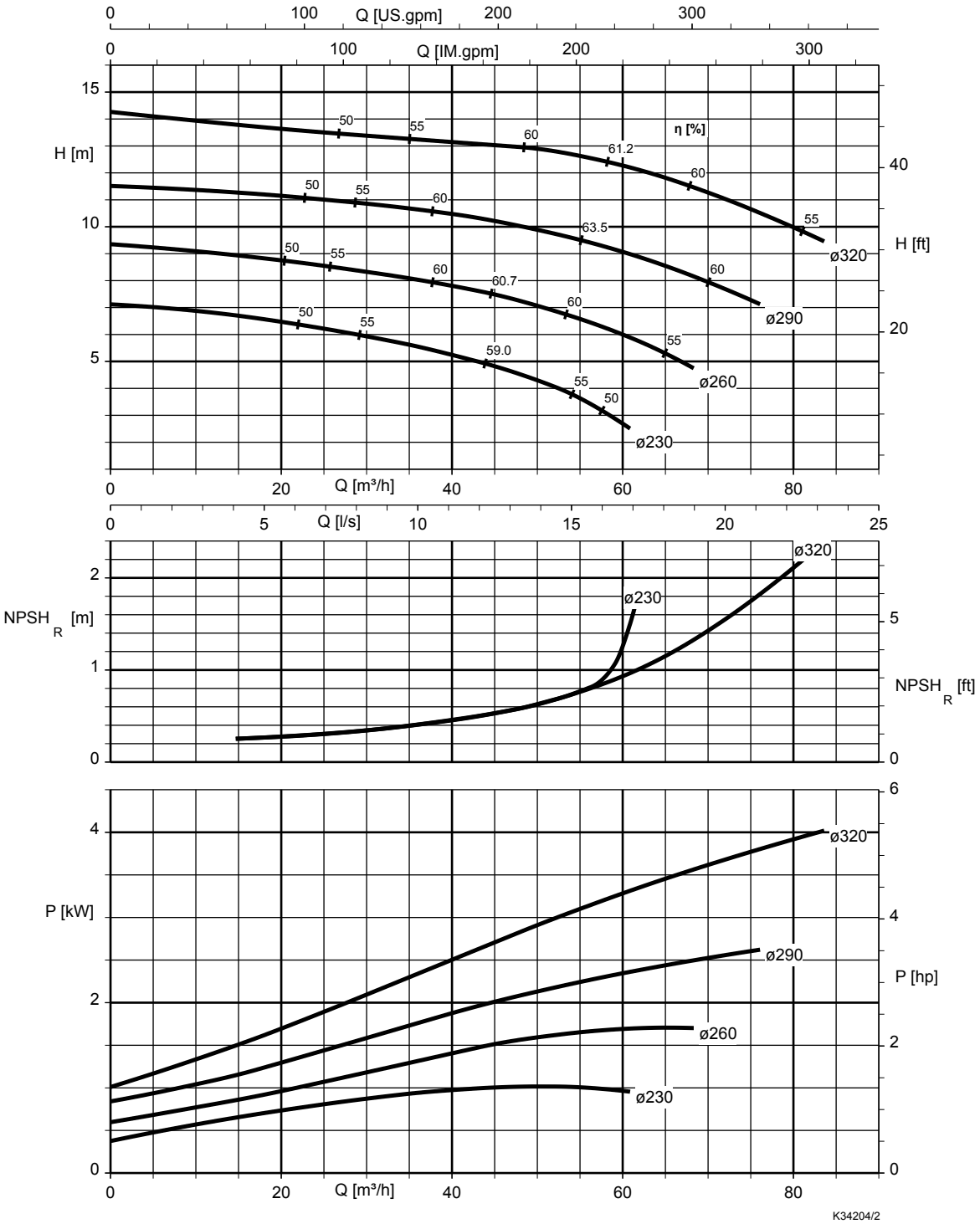
KWP K 080-050-0400, n = 875 min⁻¹



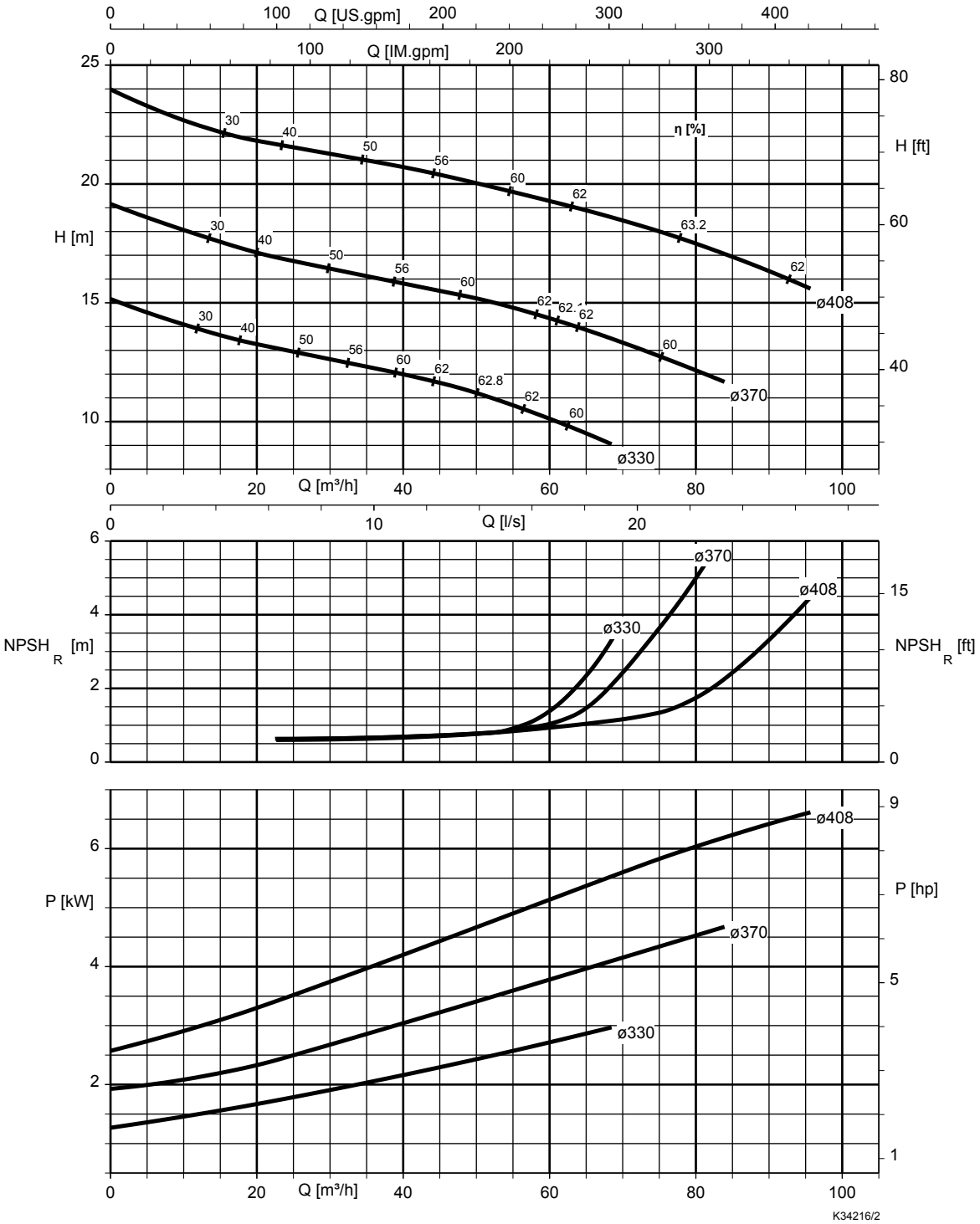
KWP K 080-065-0313, n = 875 min⁻¹



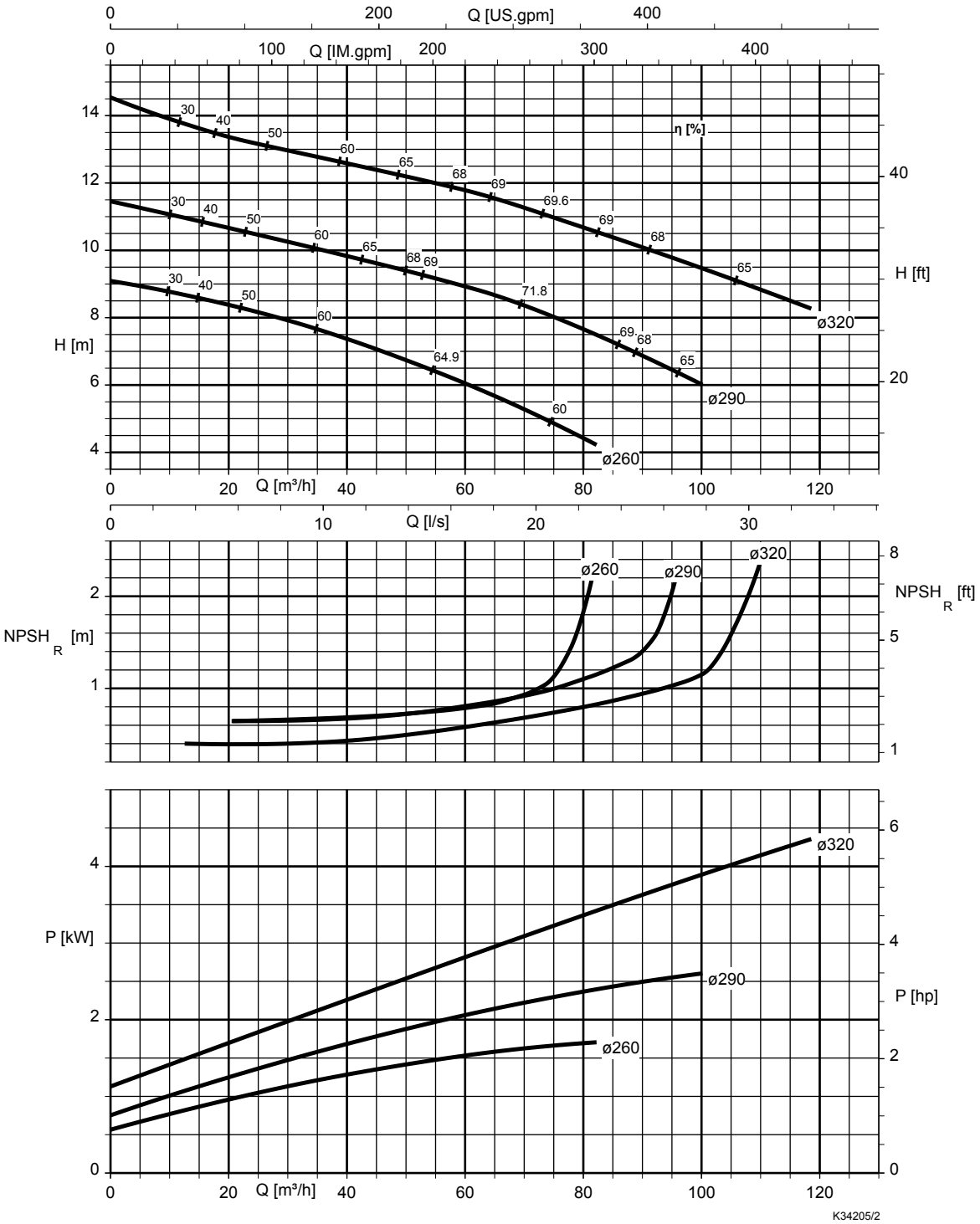
KWP K 080-065-0315, n = 875 min⁻¹



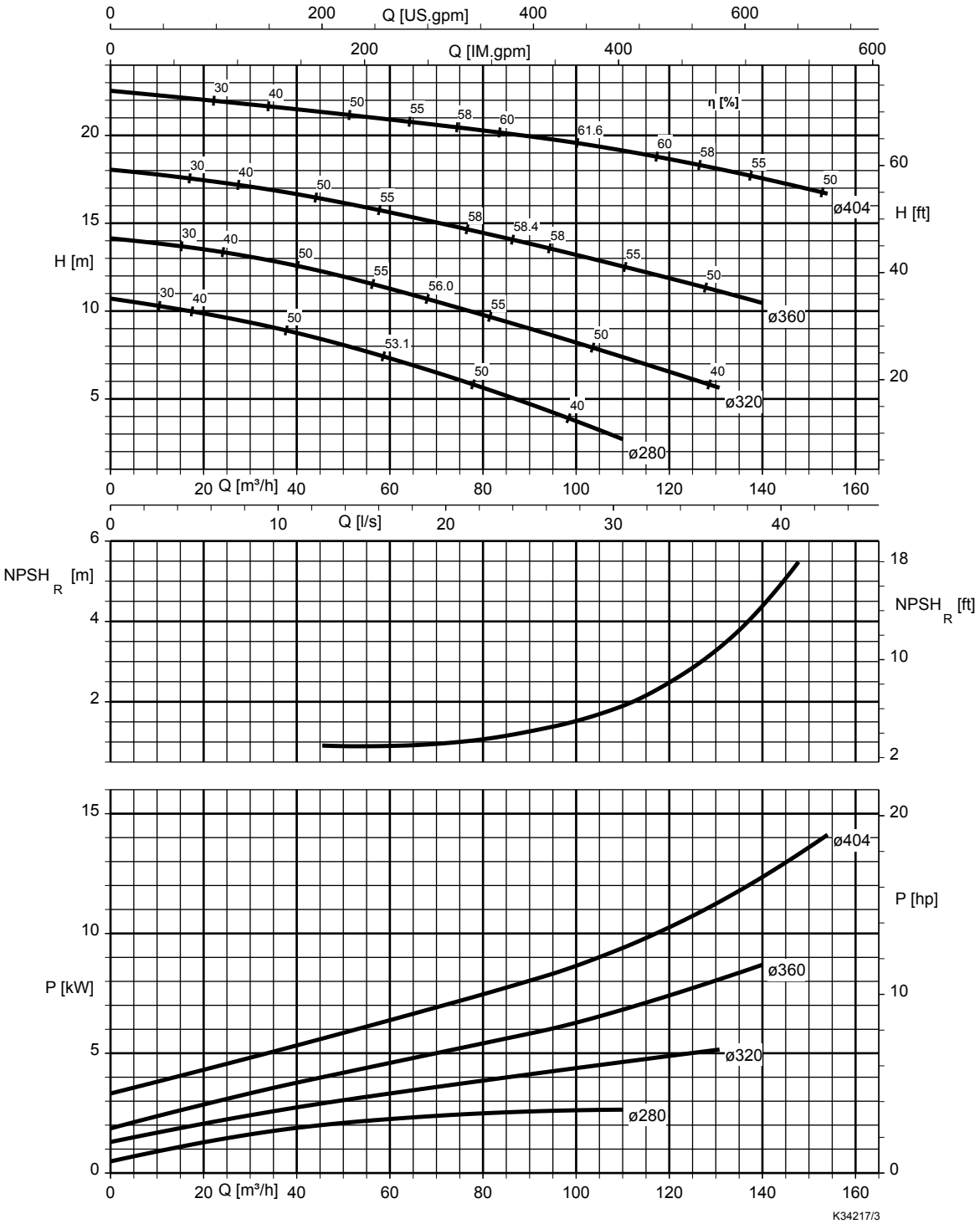
KWP K 080-065-0400, n = 875 min⁻¹



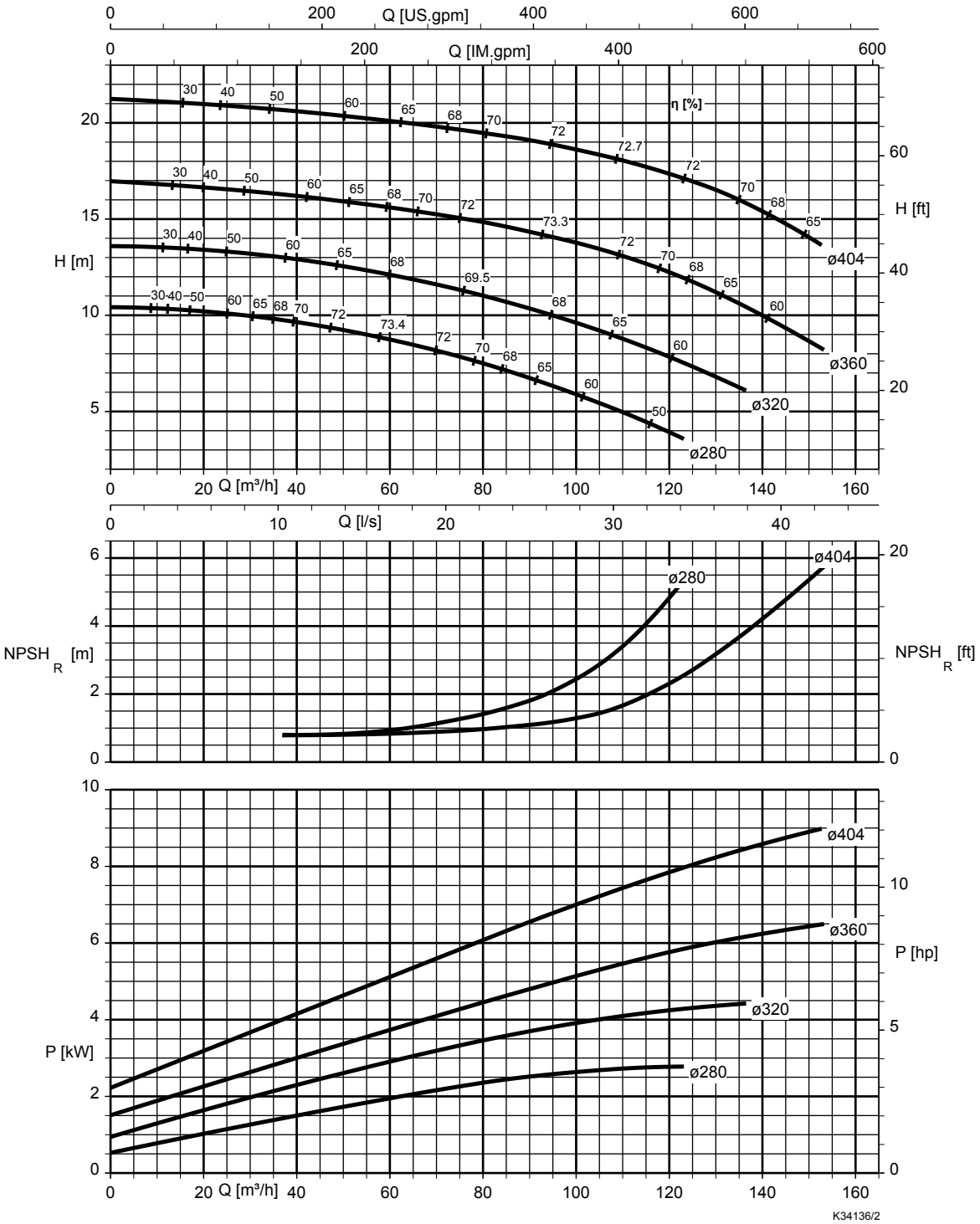
KWP K 100-080-0315, n = 875 min⁻¹



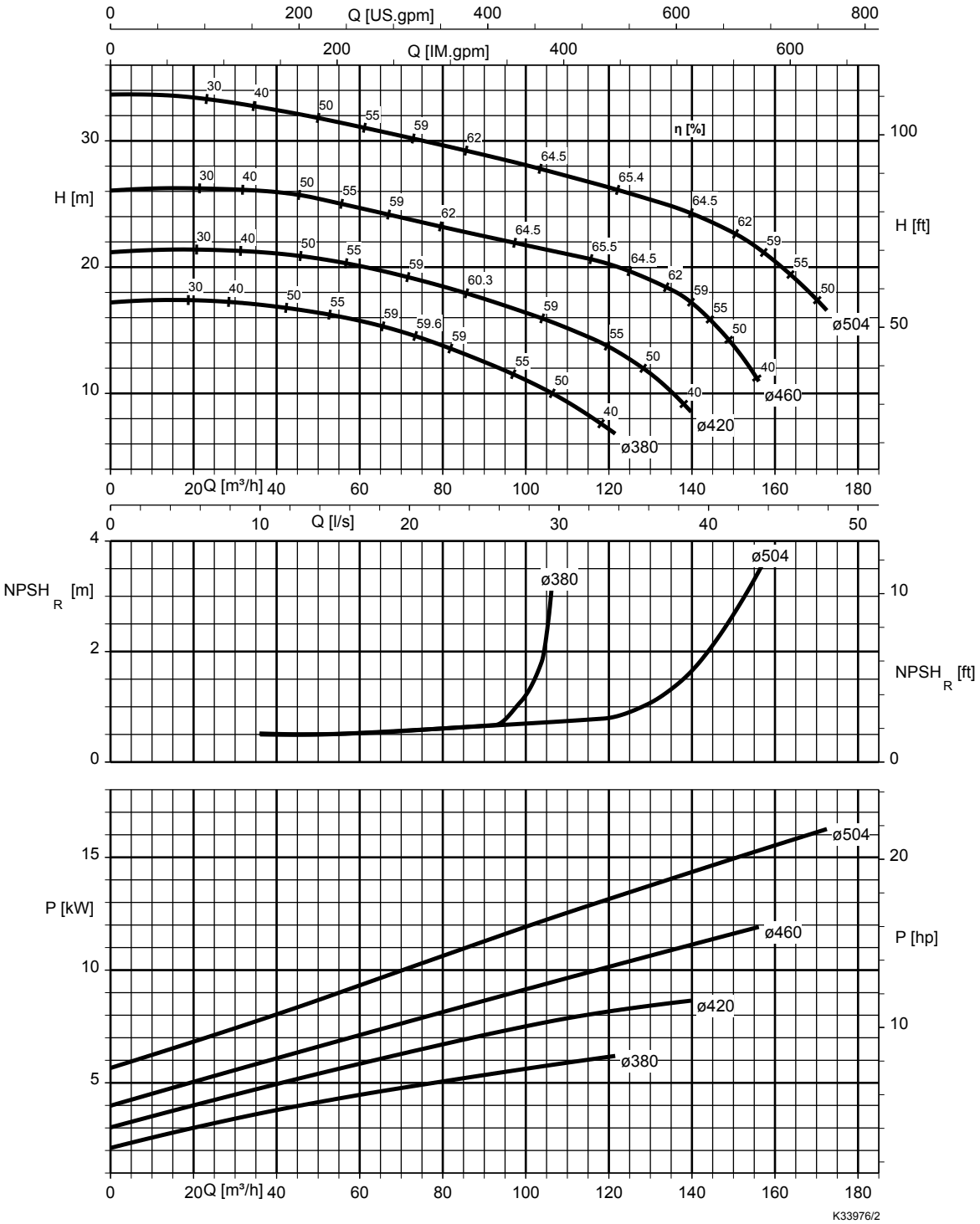
KWP K 100-080-0400, n = 875 min⁻¹



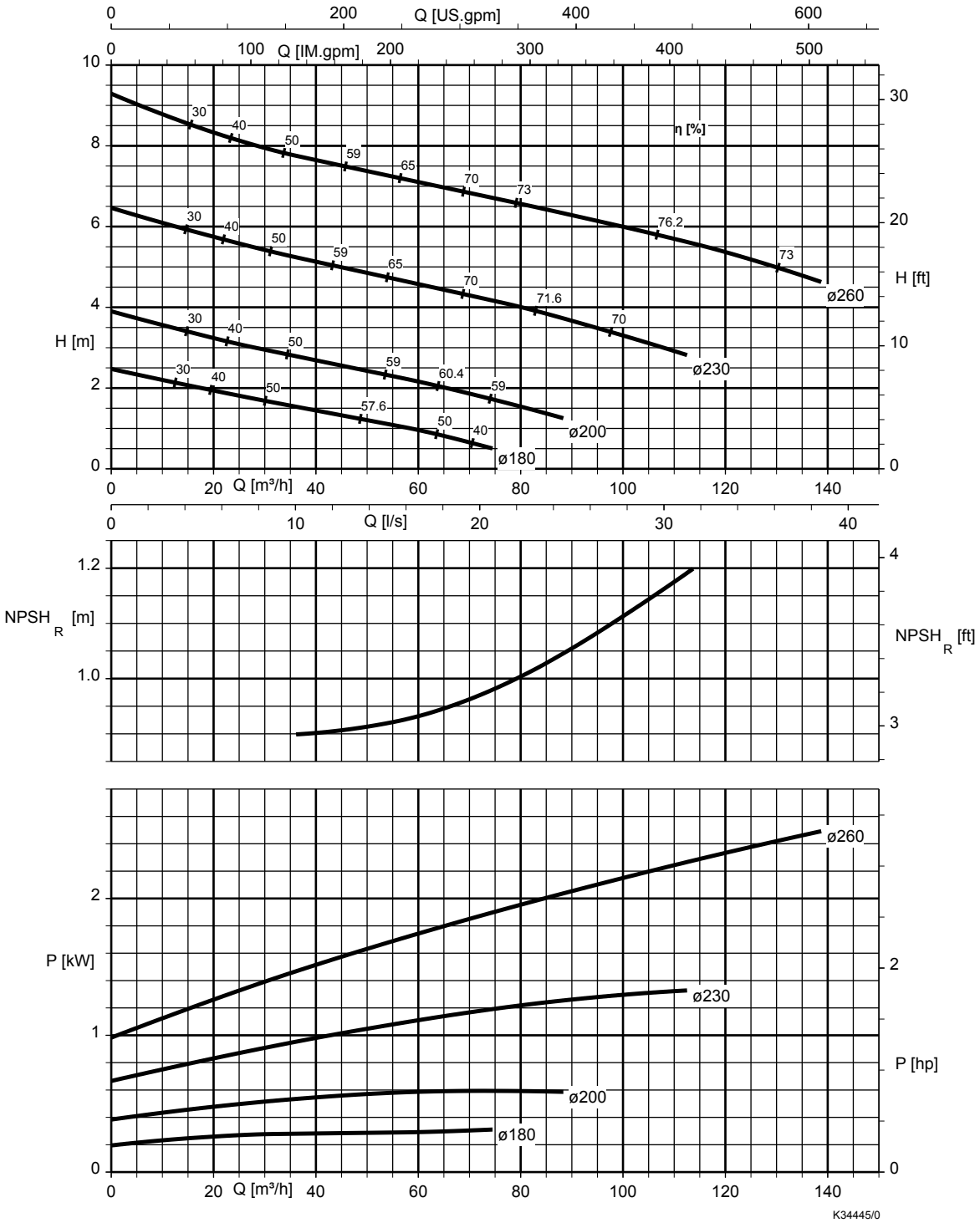
KWP K 100-080-0403, n = 875 min⁻¹



KWP K 125-080-0500, n = 875 min⁻¹



KWP K 125-100-0250, n = 875 min⁻¹



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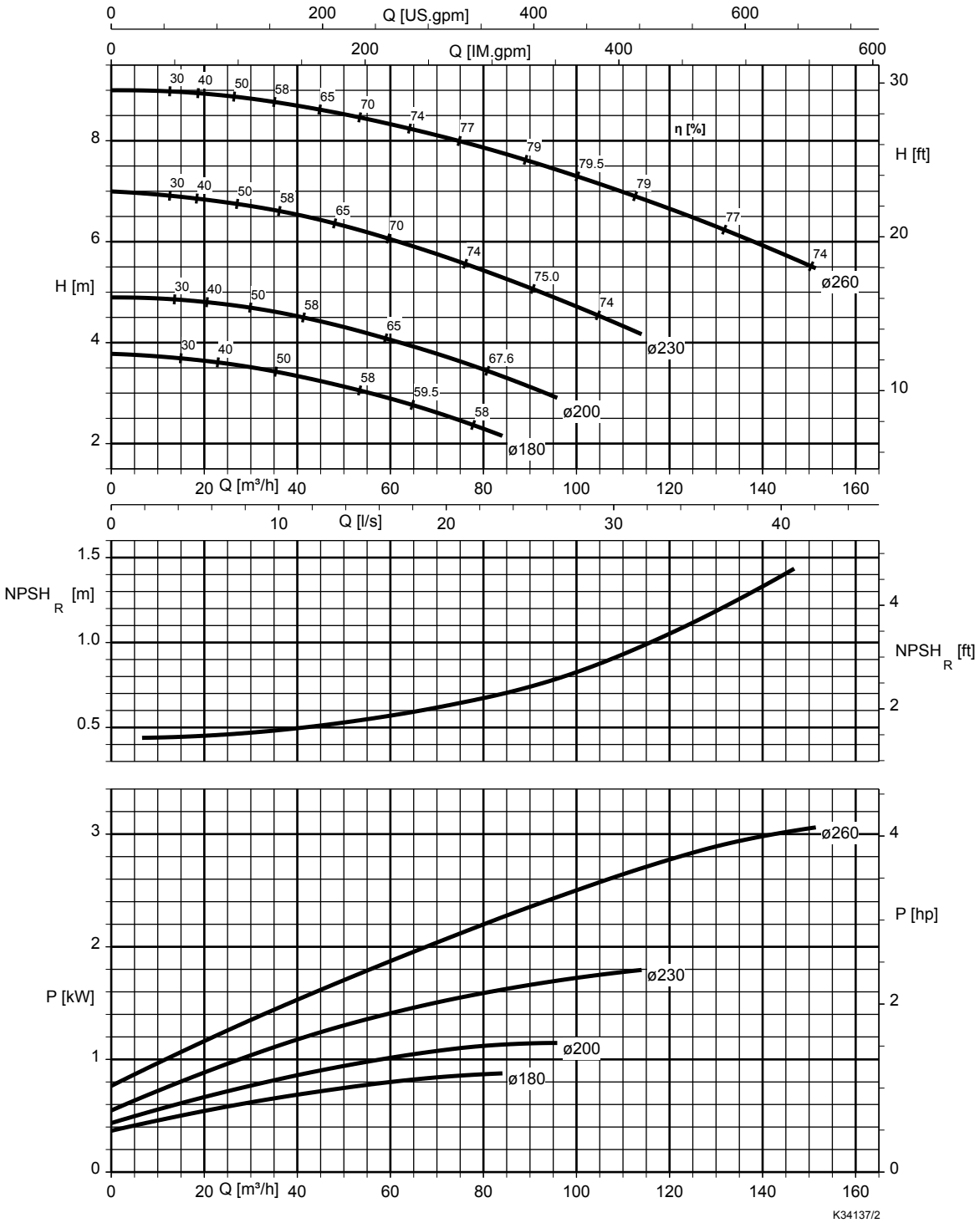
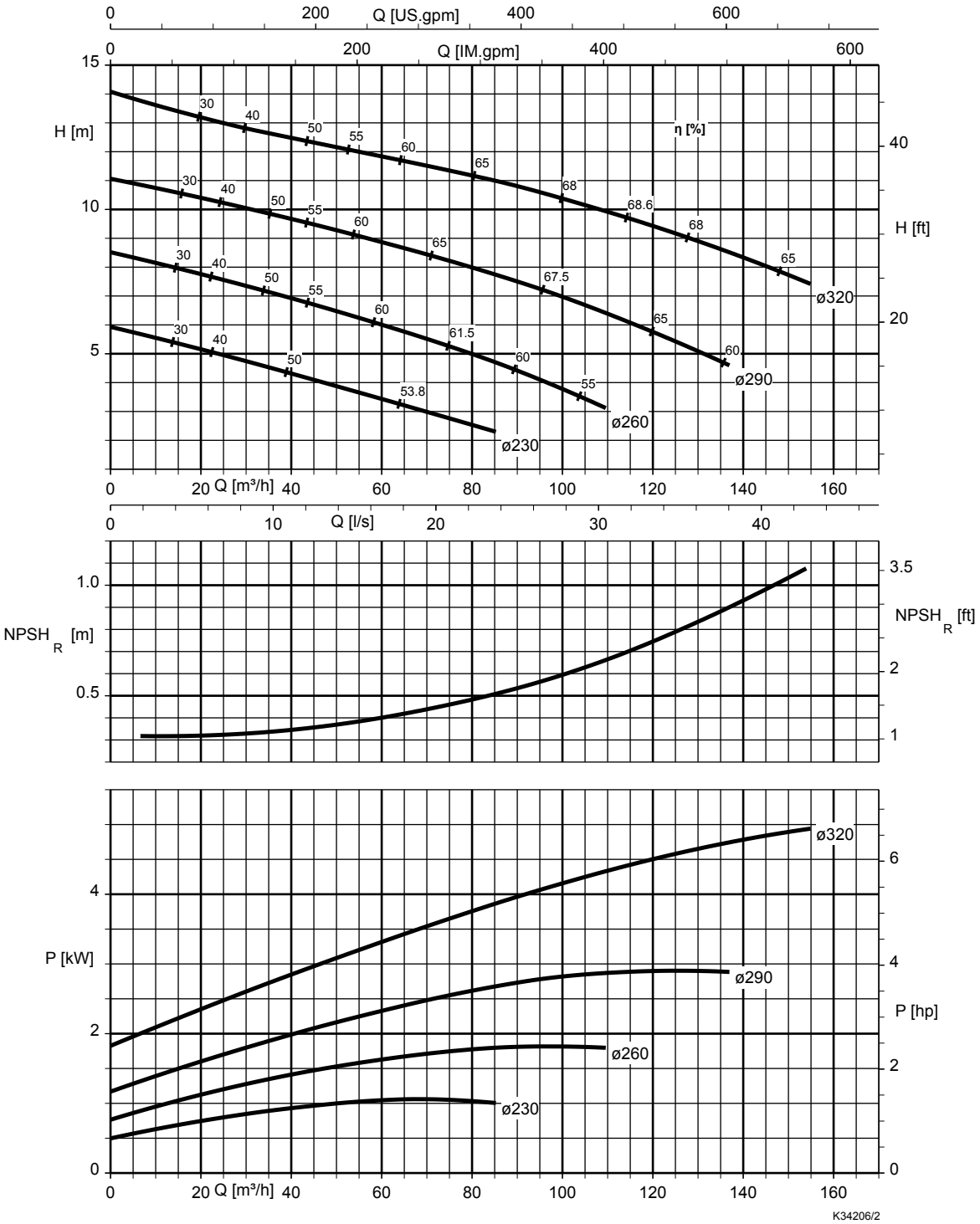
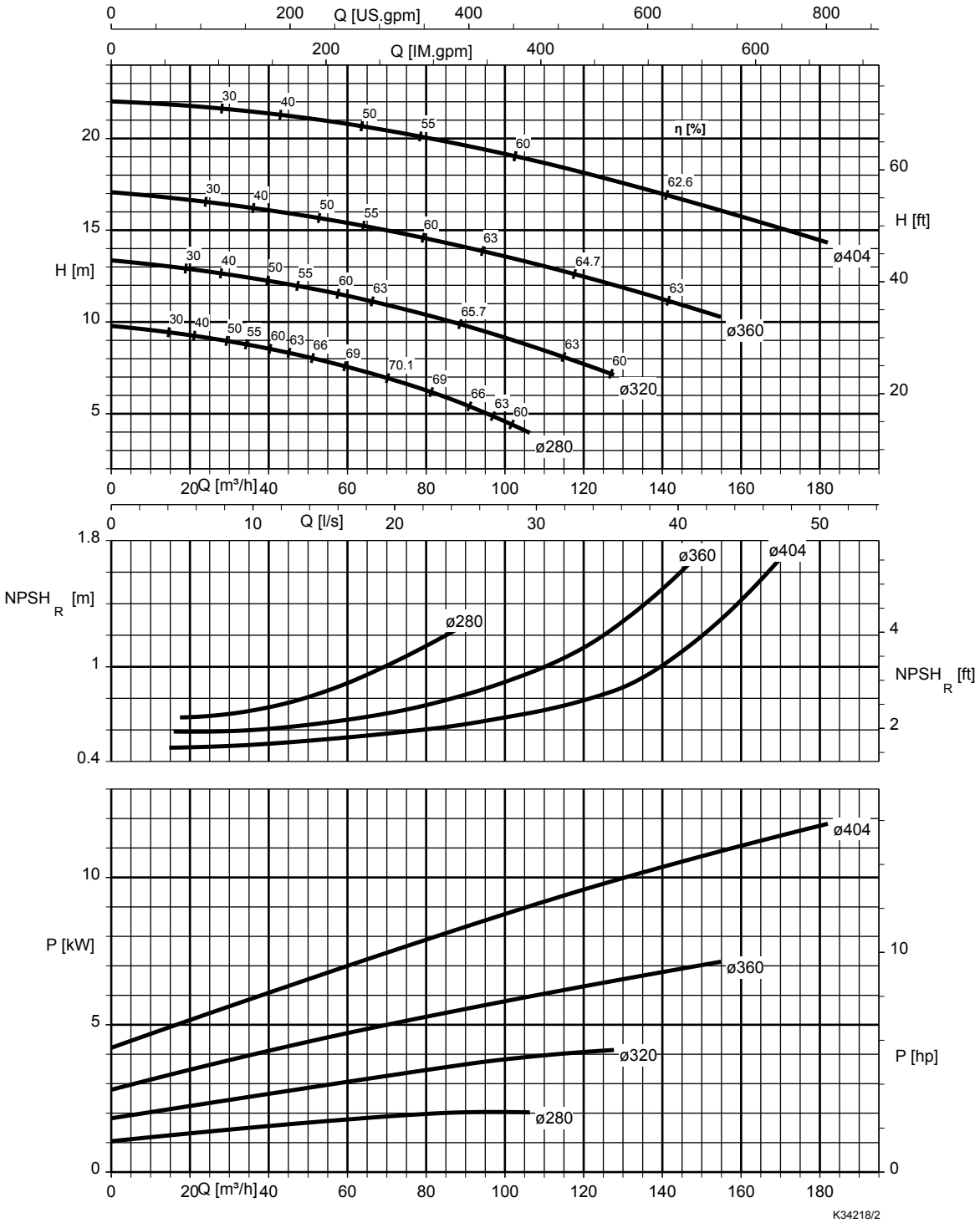


KWP K 125-100-0315, n = 875 min⁻¹



KWP K 125-100-0400, n = 875 min⁻¹



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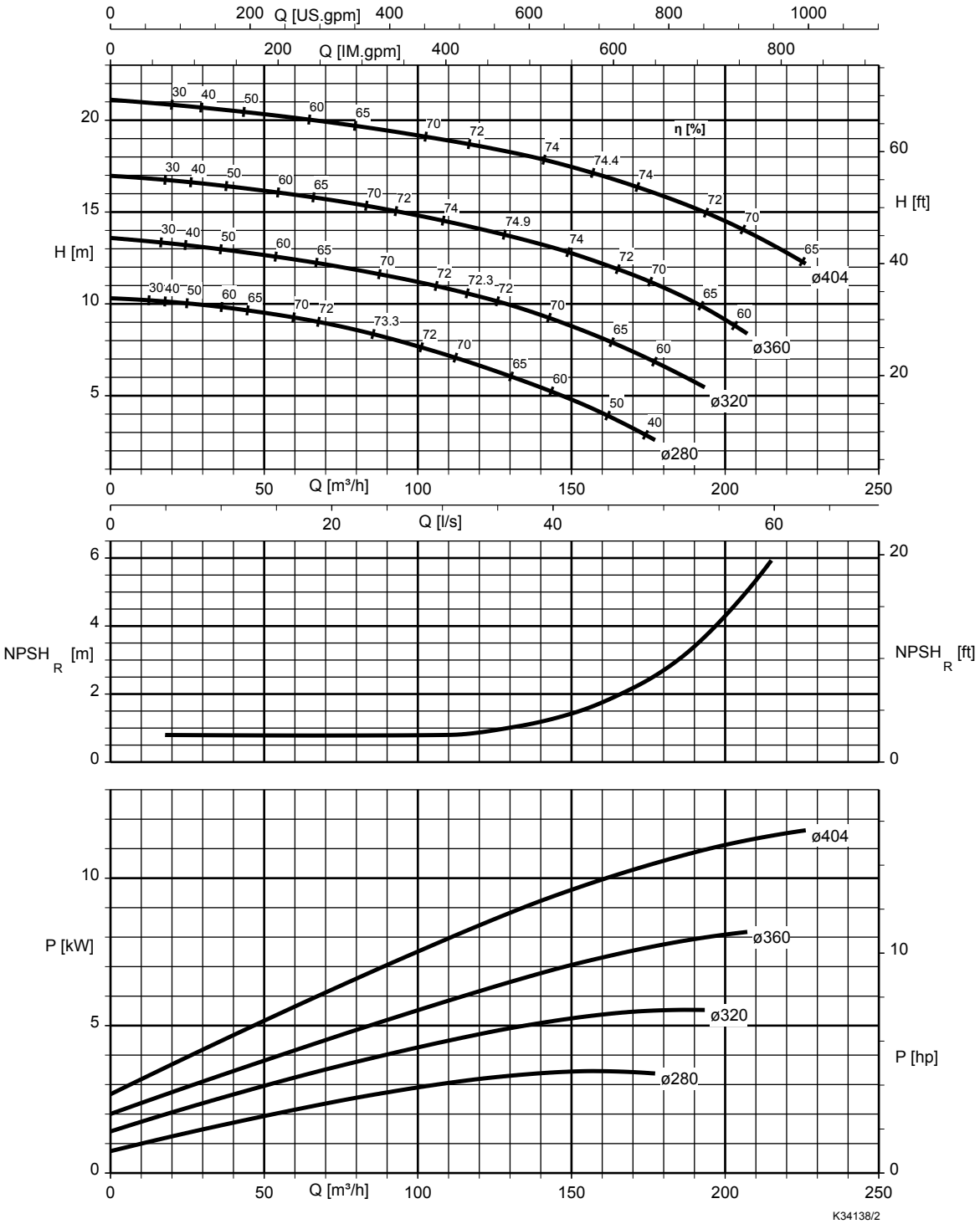
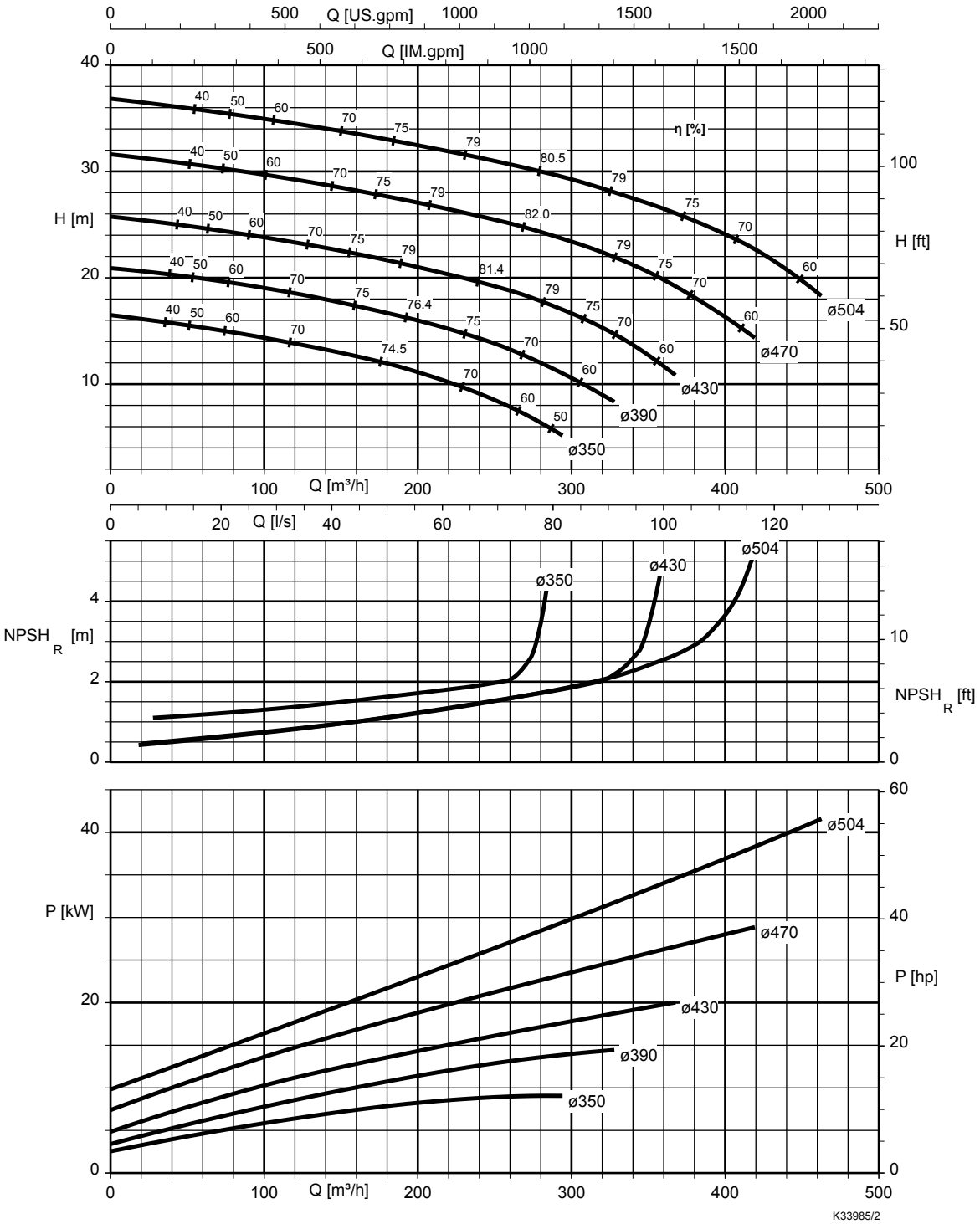
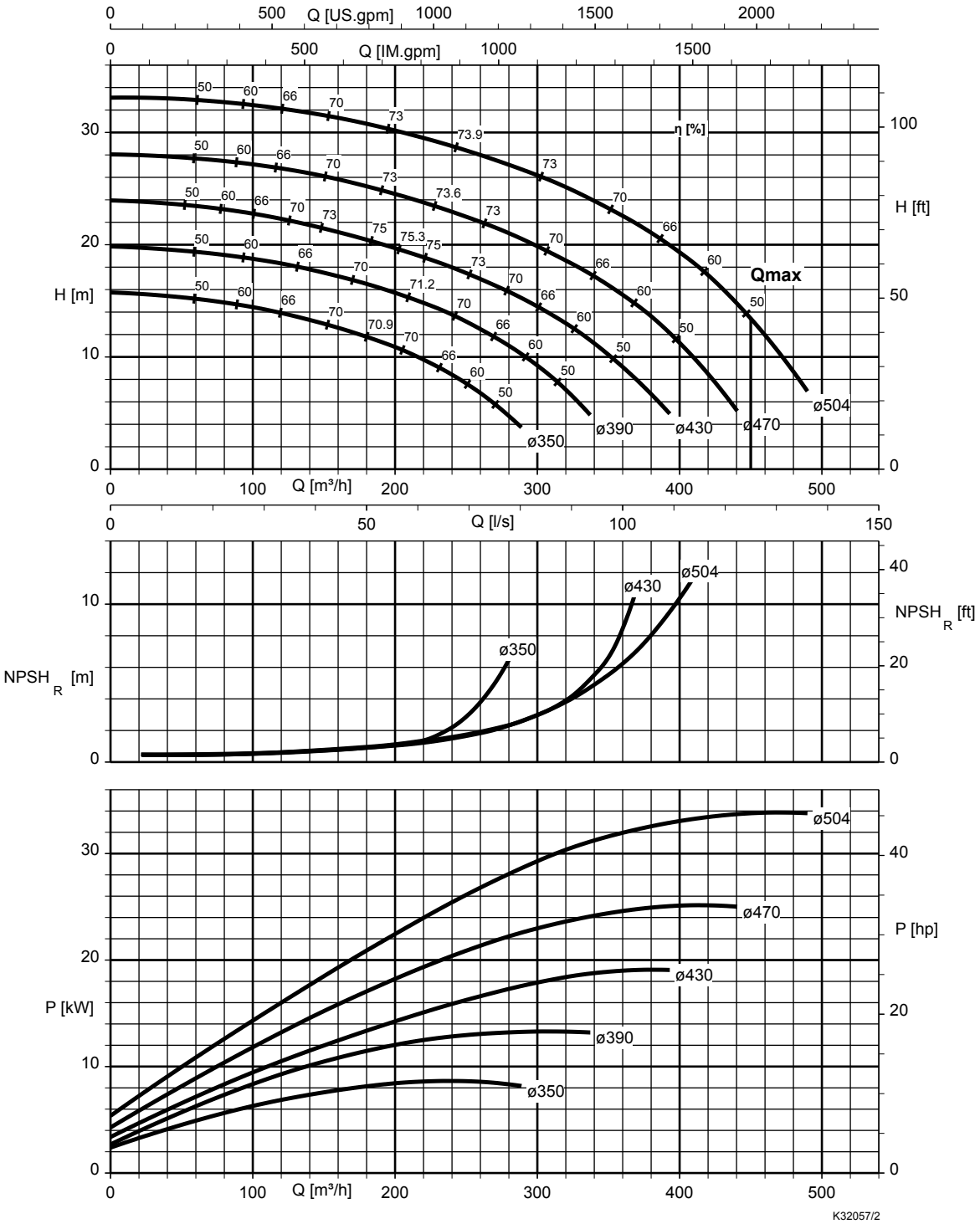


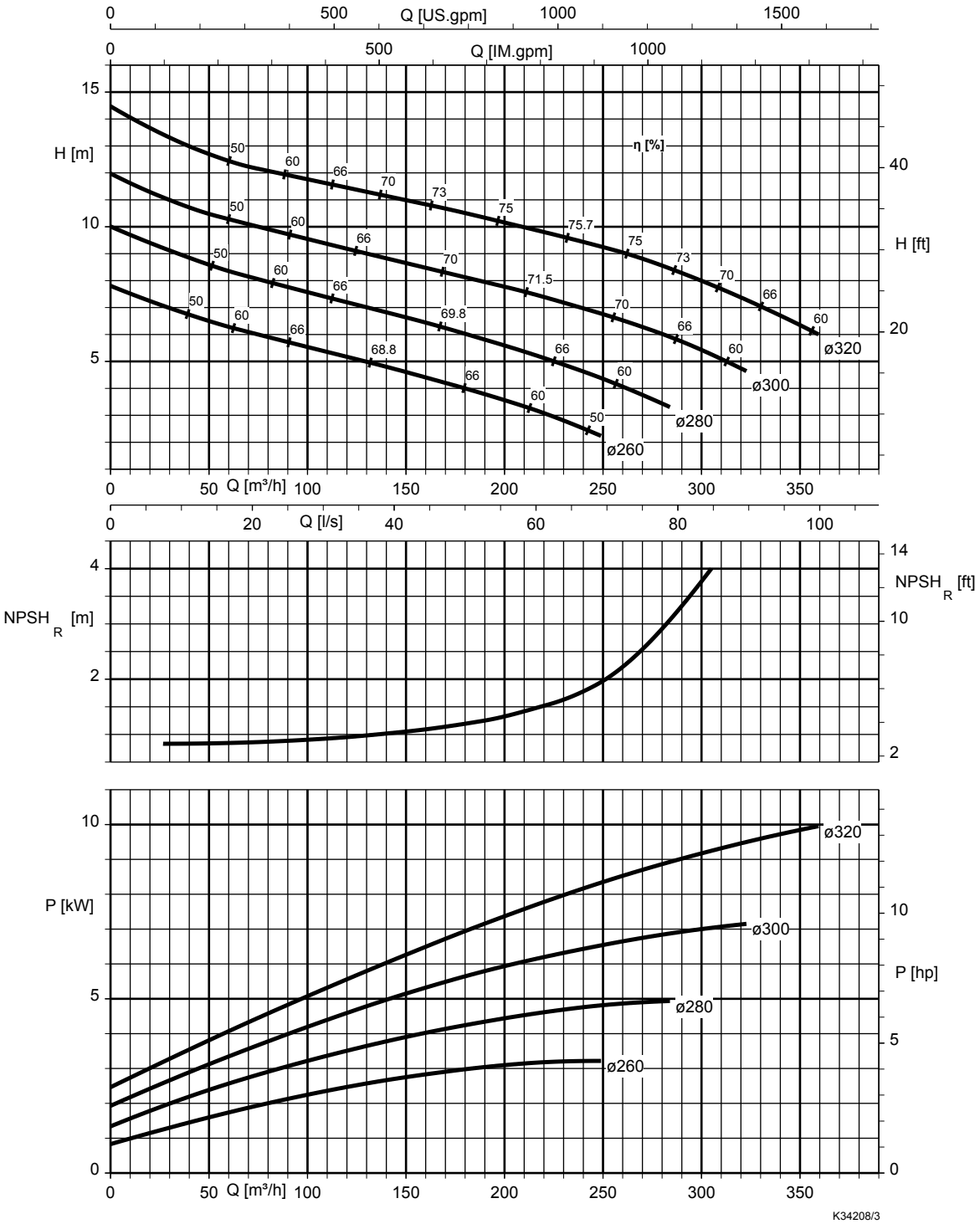
KWP K 150-125-0500, n = 875 min⁻¹



KWP K 150-125-0503, n = 875 min⁻¹



KWP K 150-150-0315, n = 875 min⁻¹



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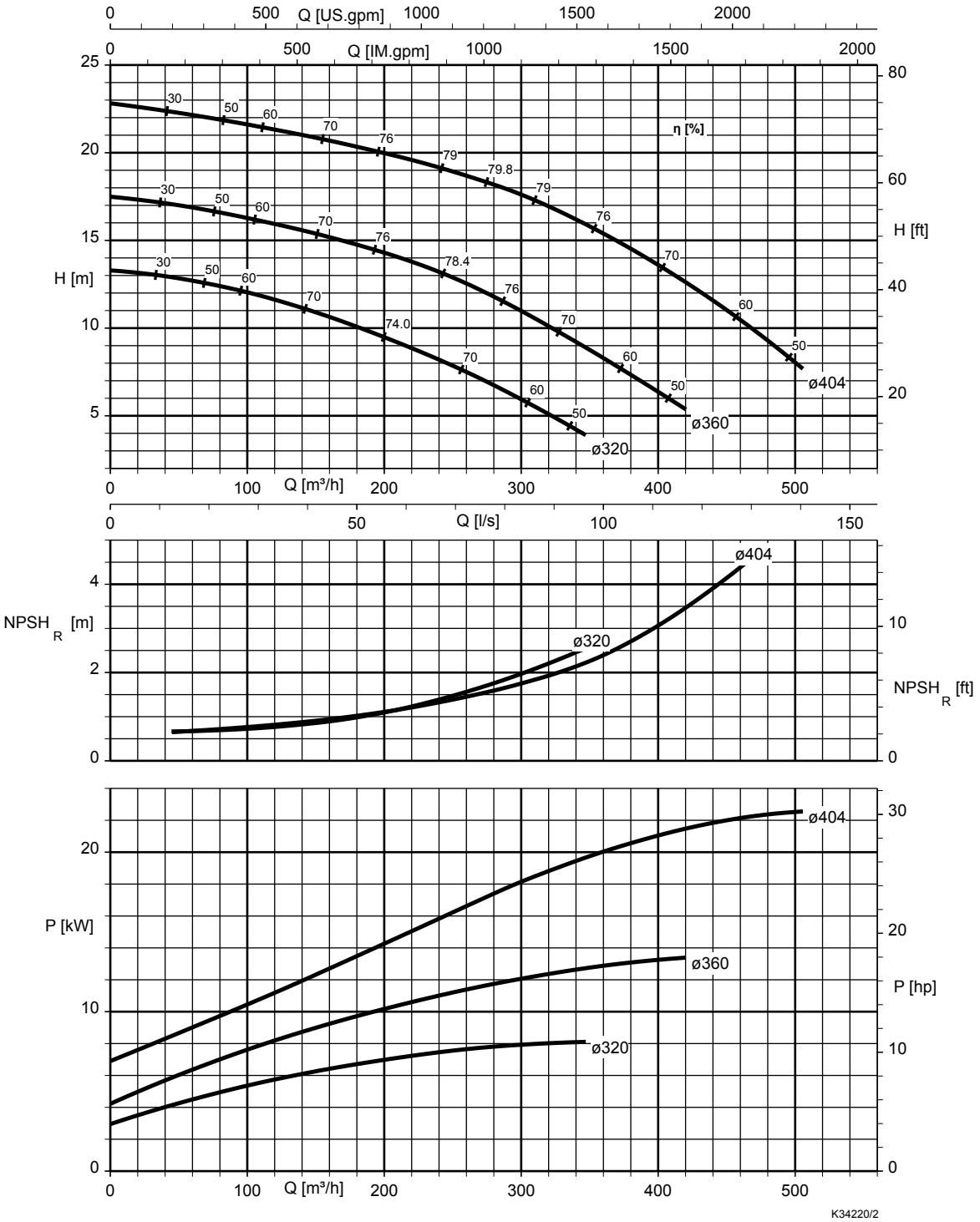
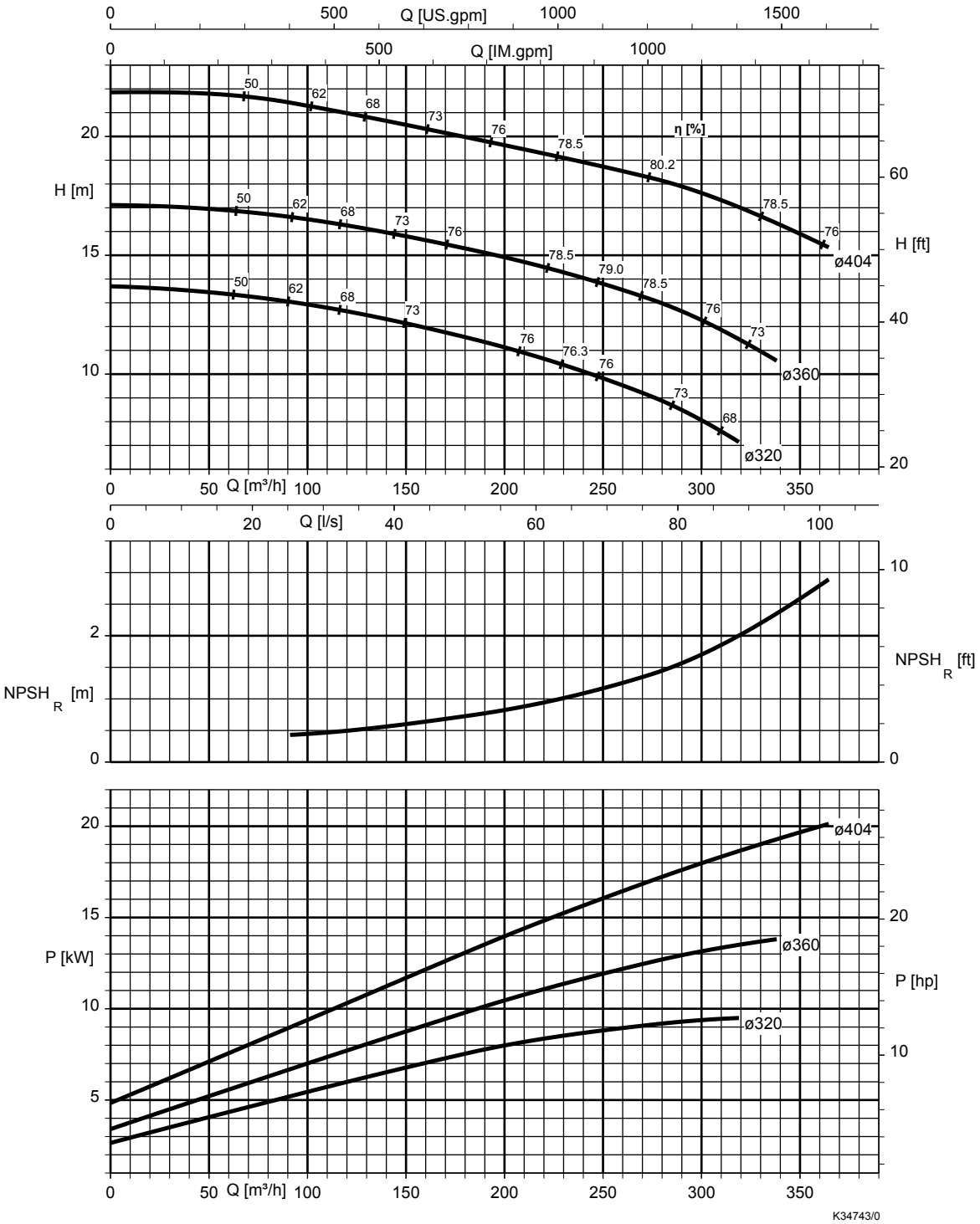
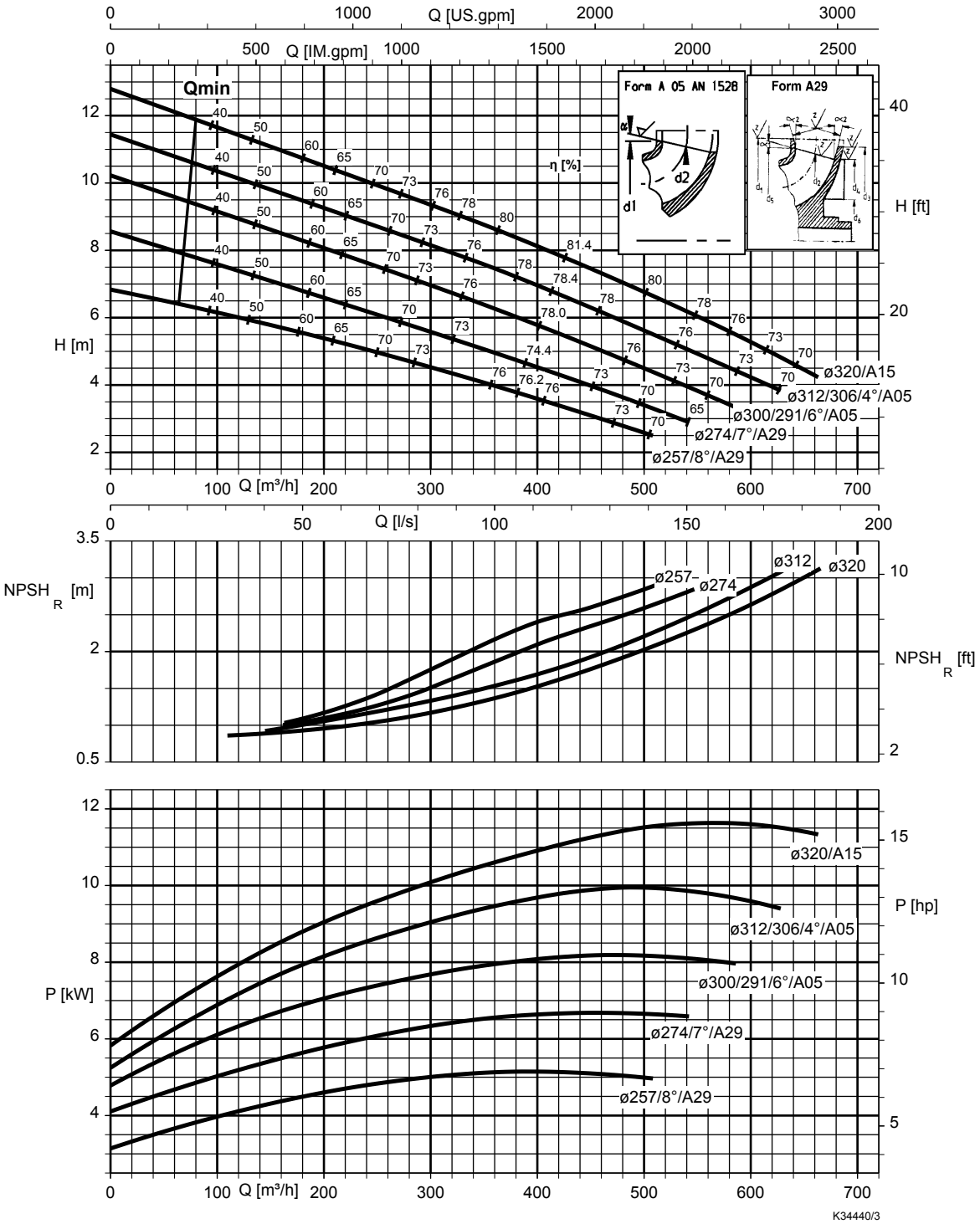


KWP K 150-150-0403, n = 875 min⁻¹



KWP K 200-200-0320, n = 875 min⁻¹



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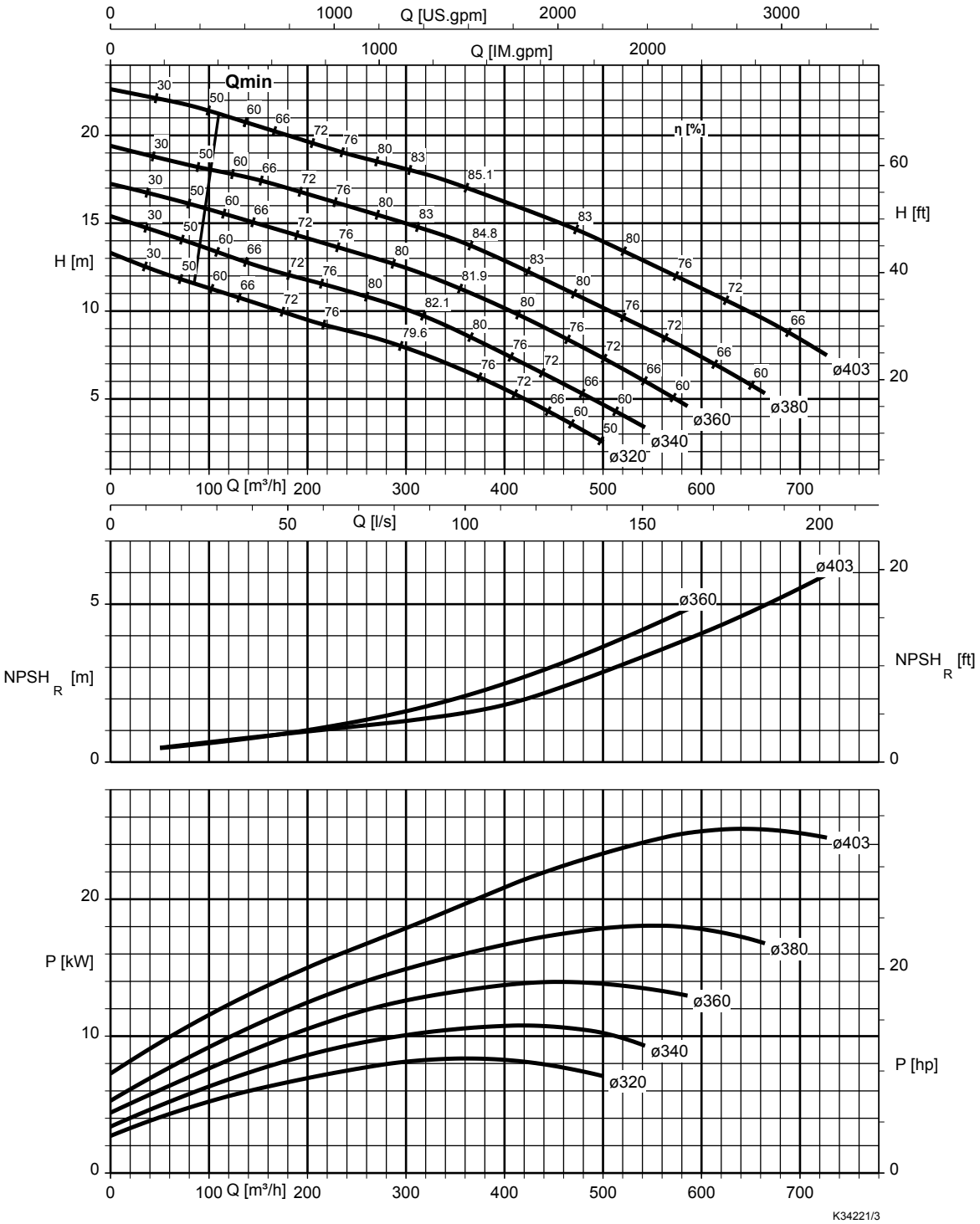
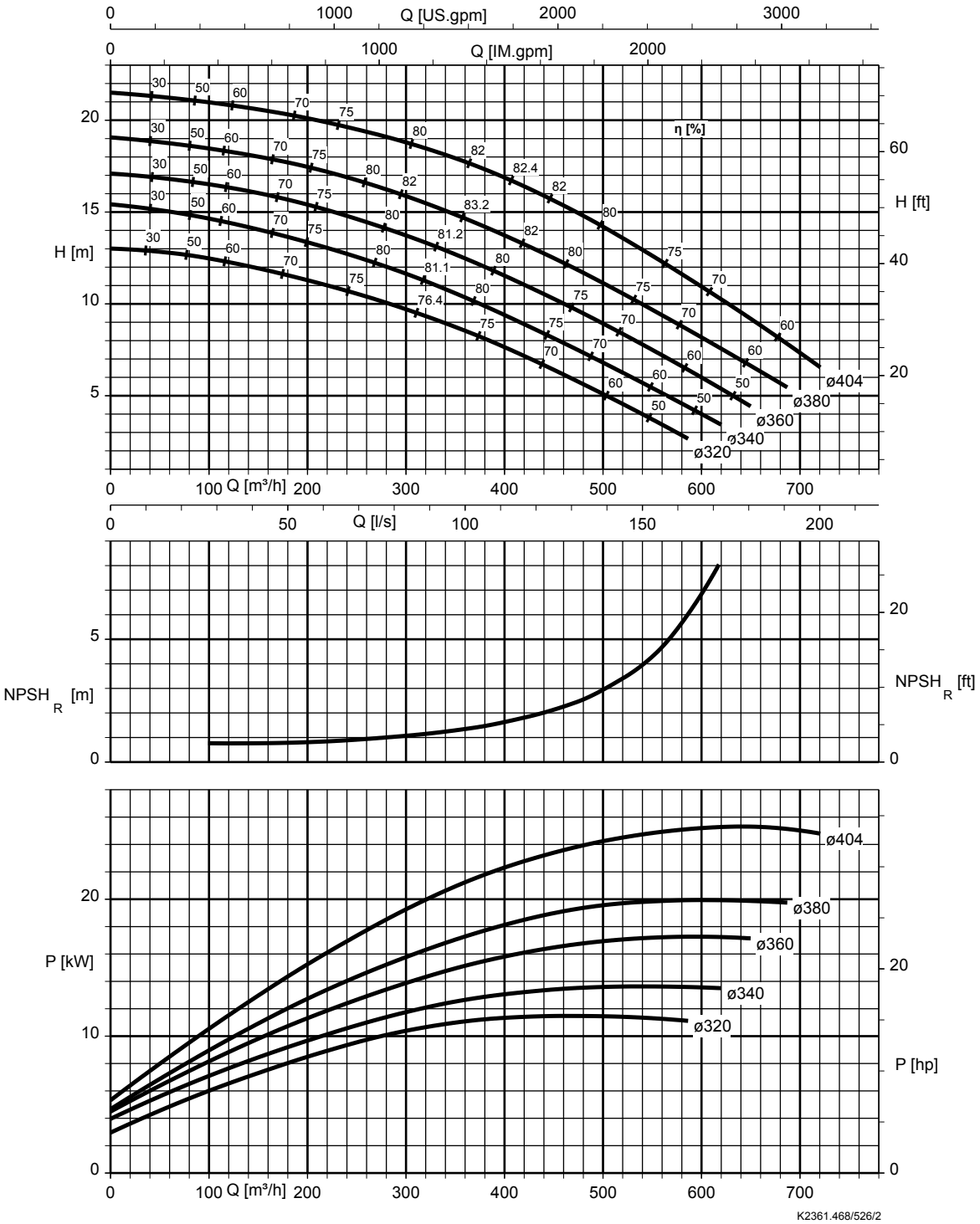
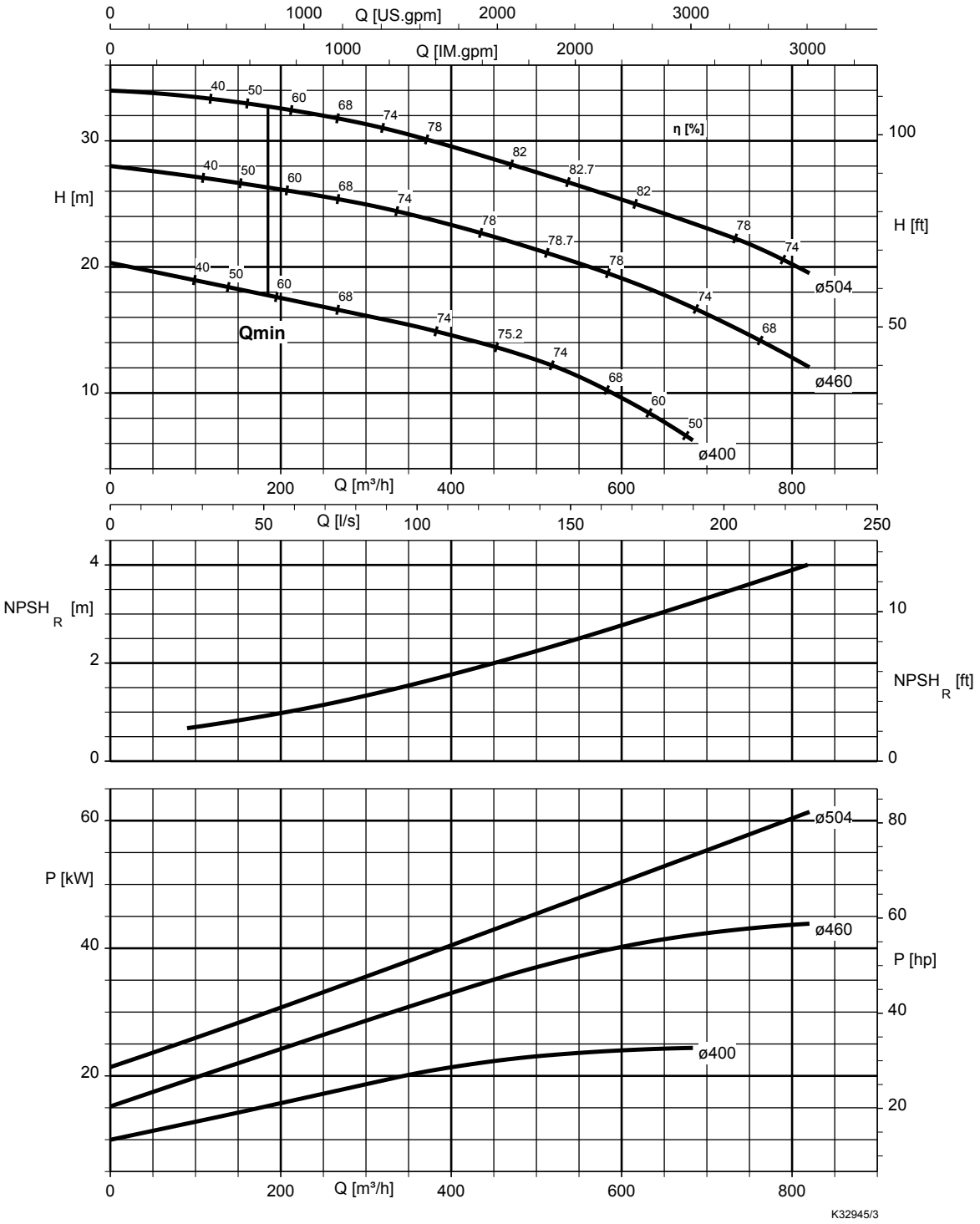


KWP K 200-200-0403, n = 875 min⁻¹

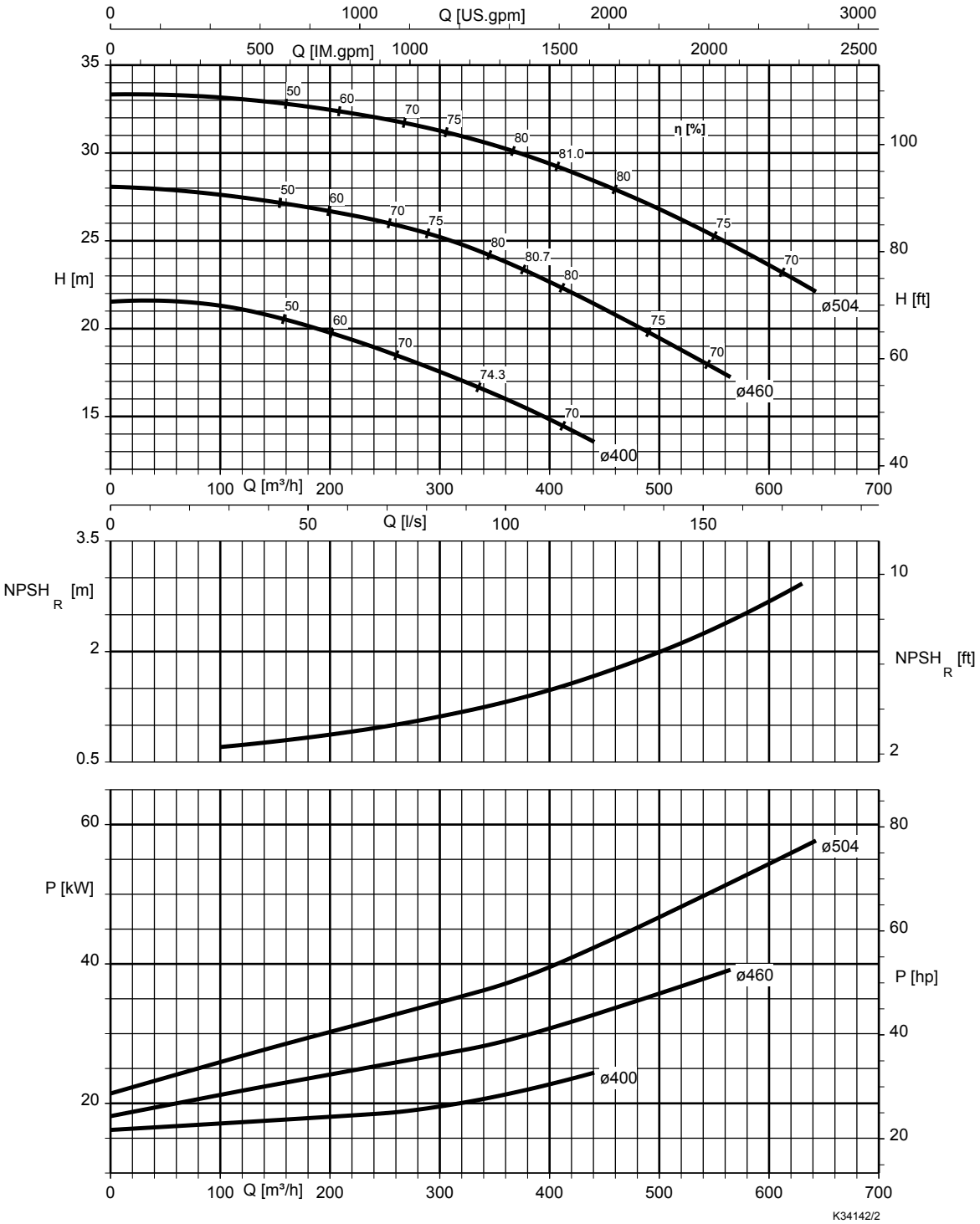


KWP K 200-200-0500, n = 875 min⁻¹

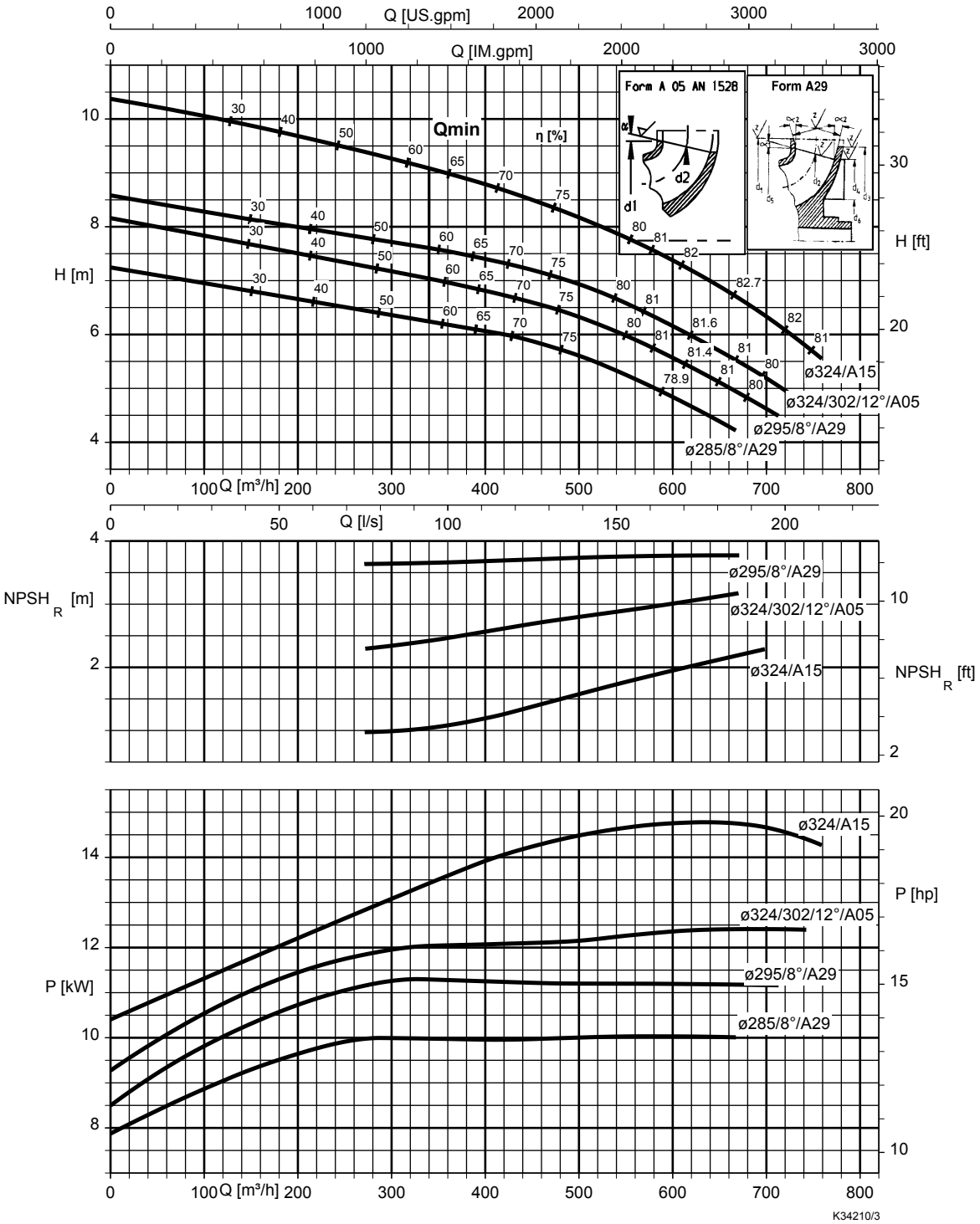
KWP K 200-200-0501, n = 875 min⁻¹



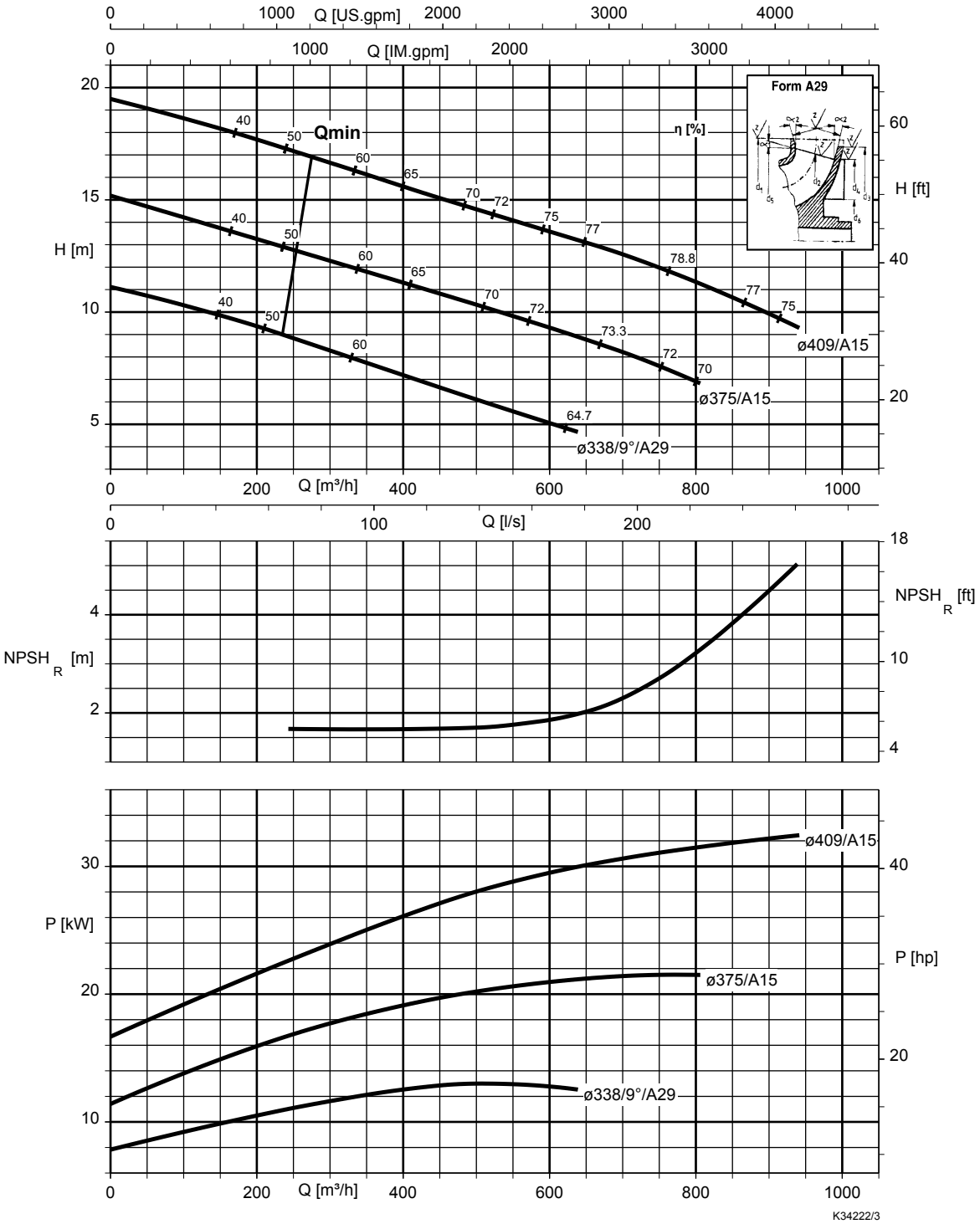
KWP K 200-200-0503, n = 875 min⁻¹



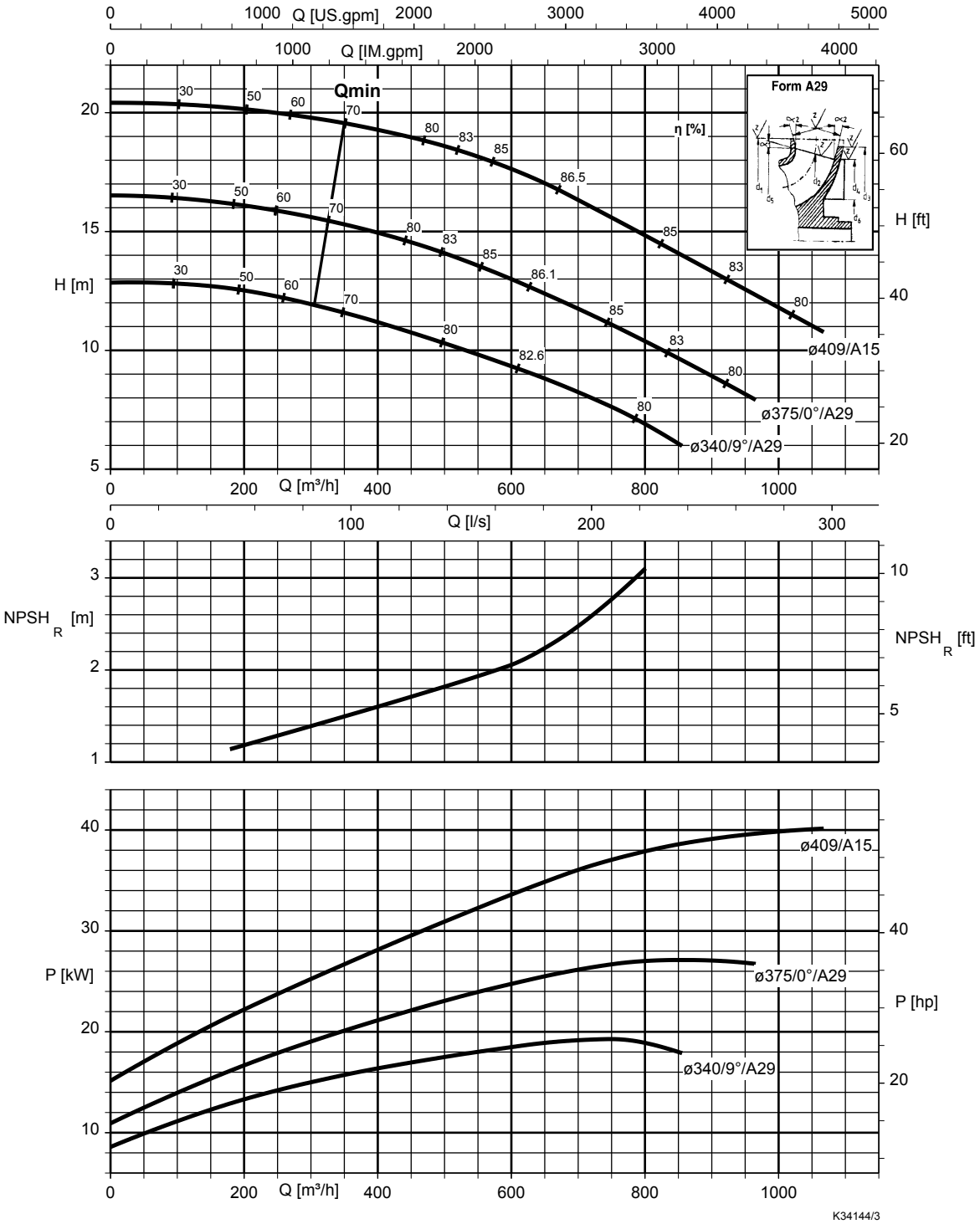
KWP K 250-250-0315, n = 875 min⁻¹



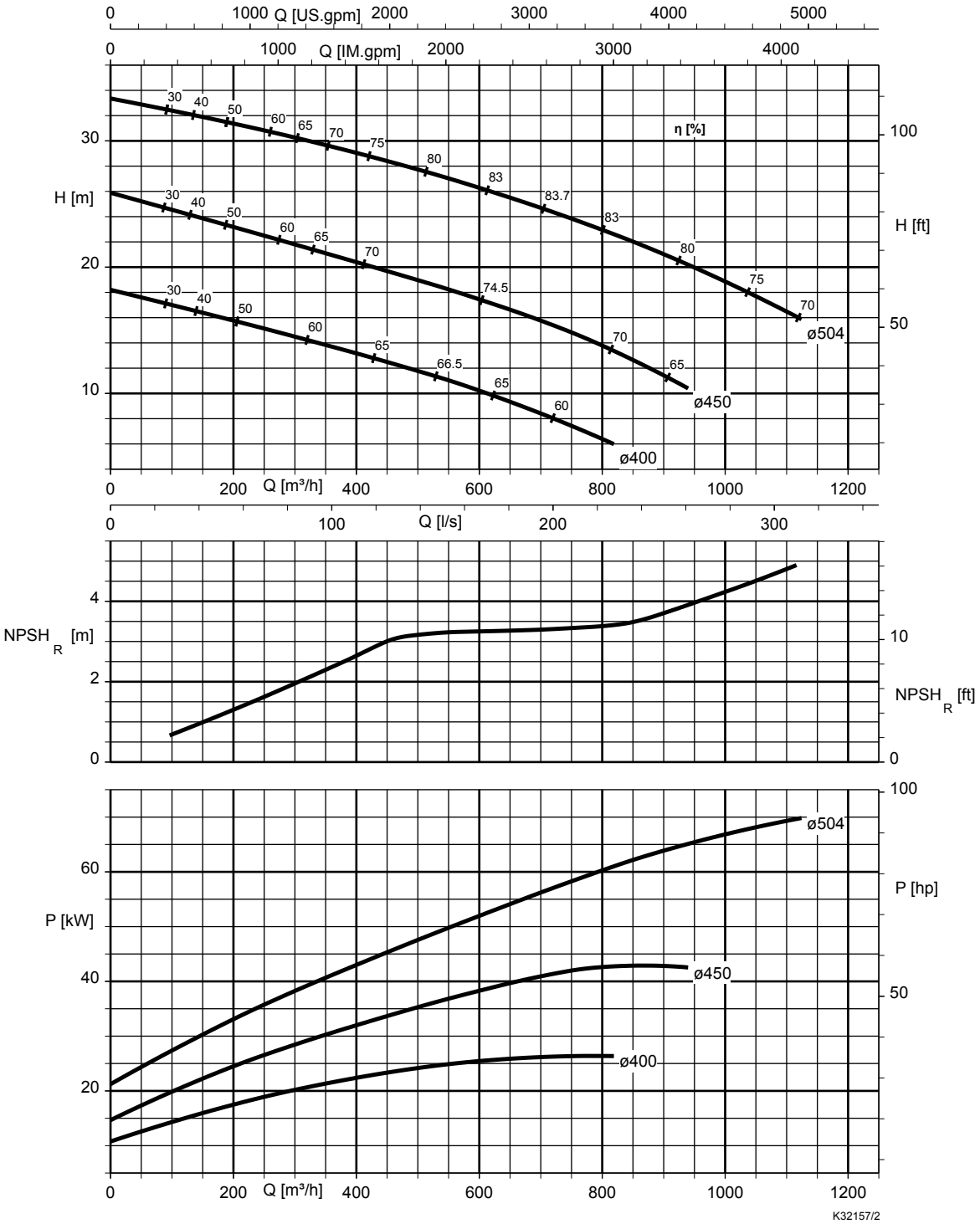
KWP K 250-250-0400, n = 875 min⁻¹



KWP K 250-250-0403, n = 875 min⁻¹



KWP K 250-250-0500, n = 875 min⁻¹



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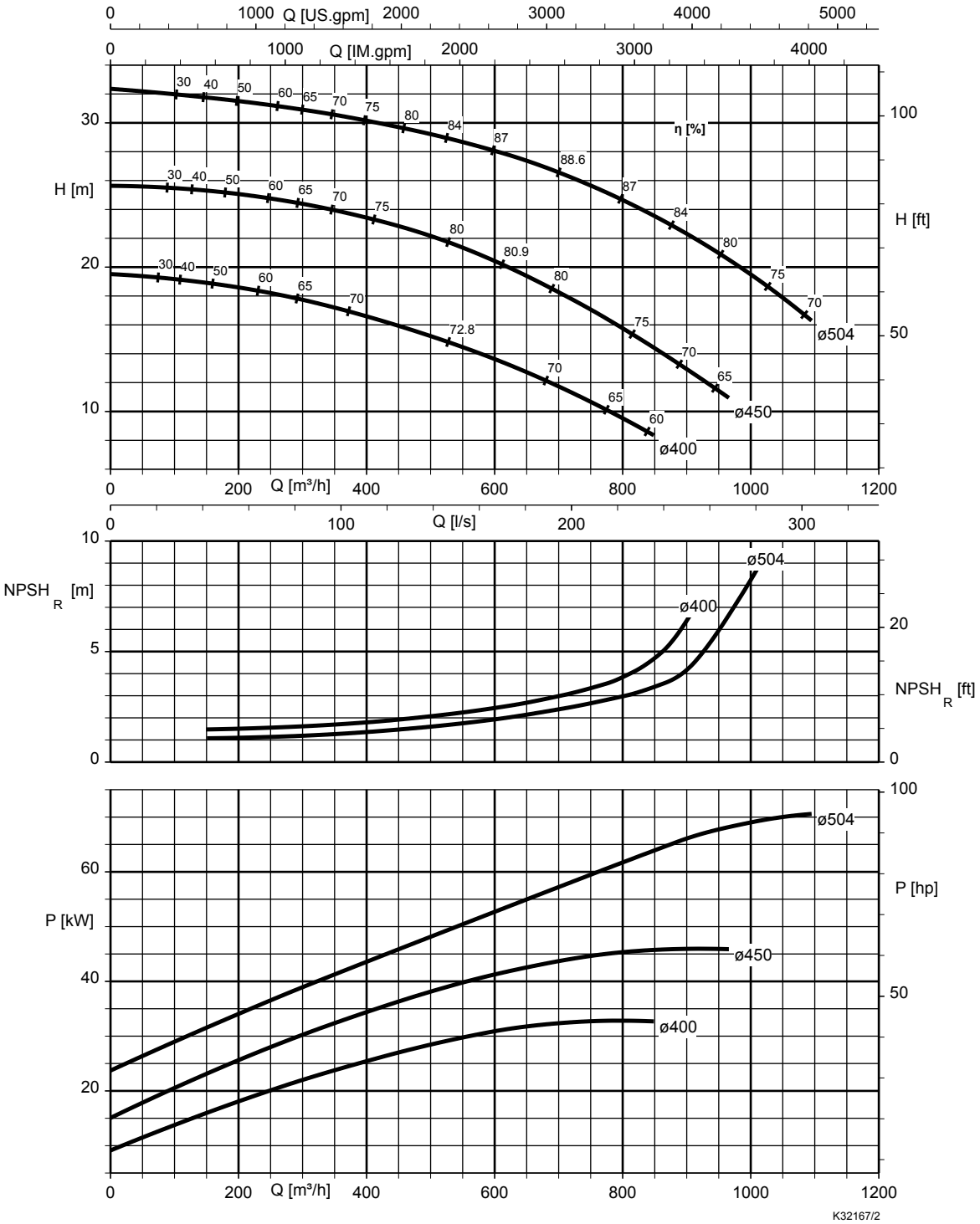
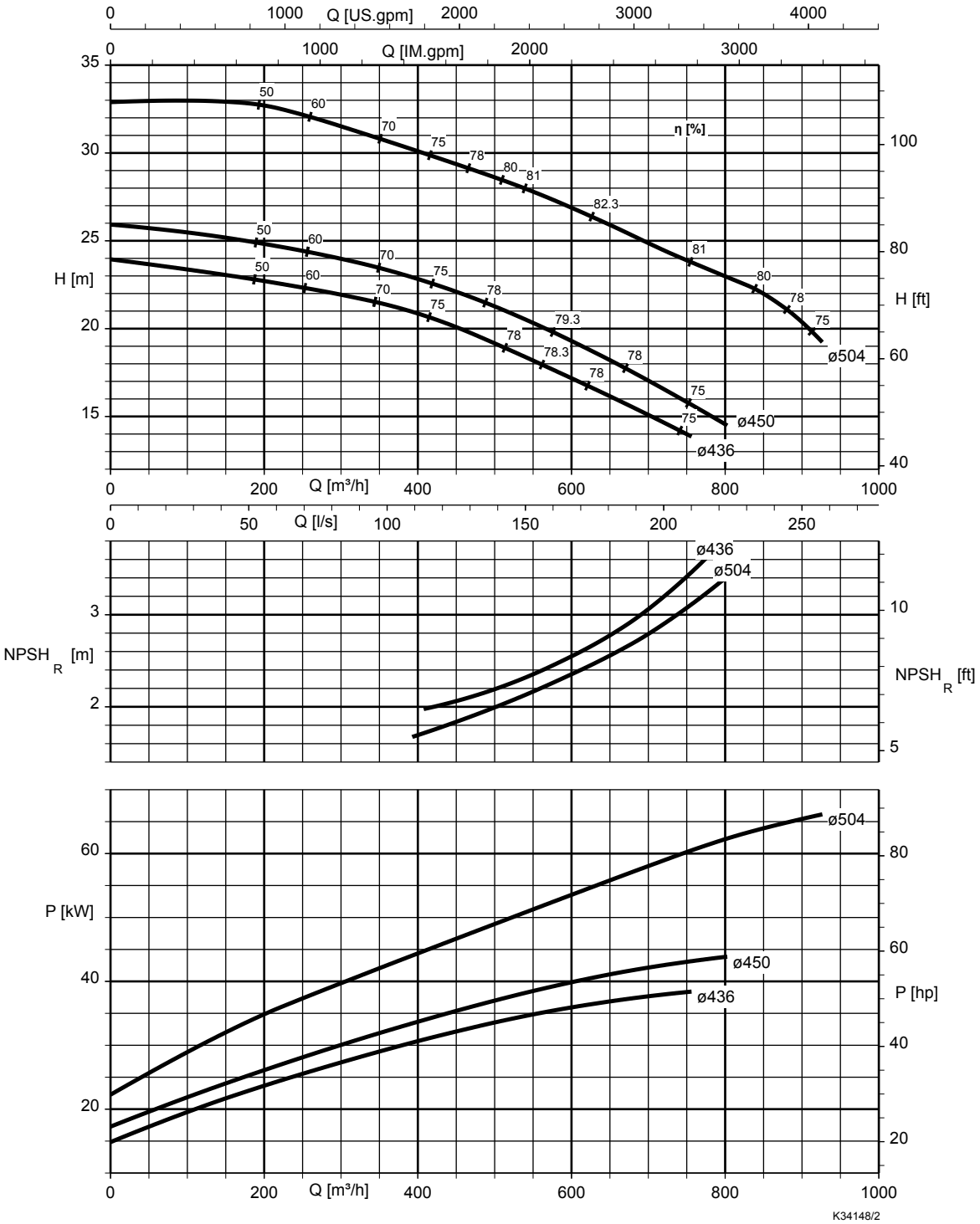
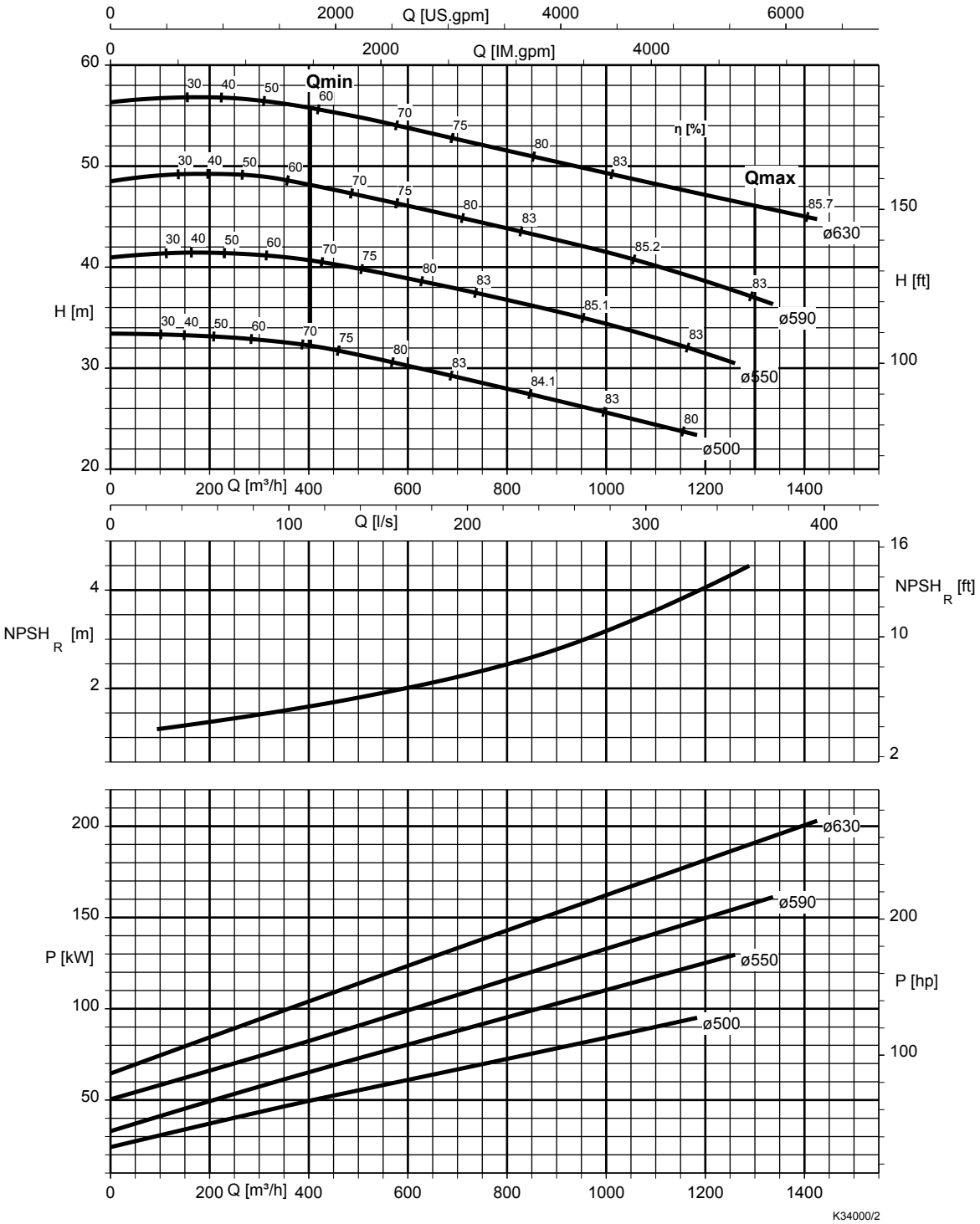


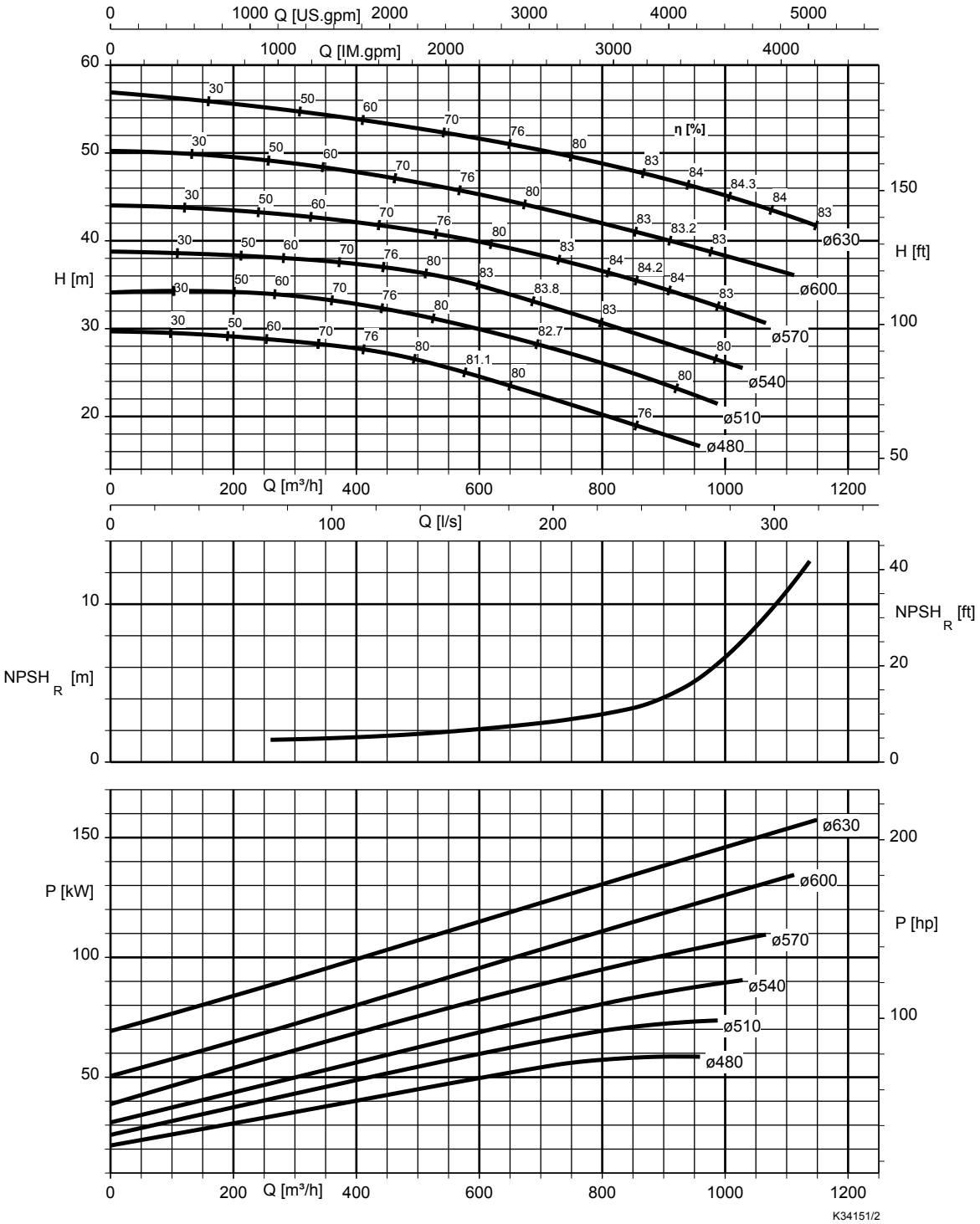
KWP K 250-250-0505, n = 875 min⁻¹



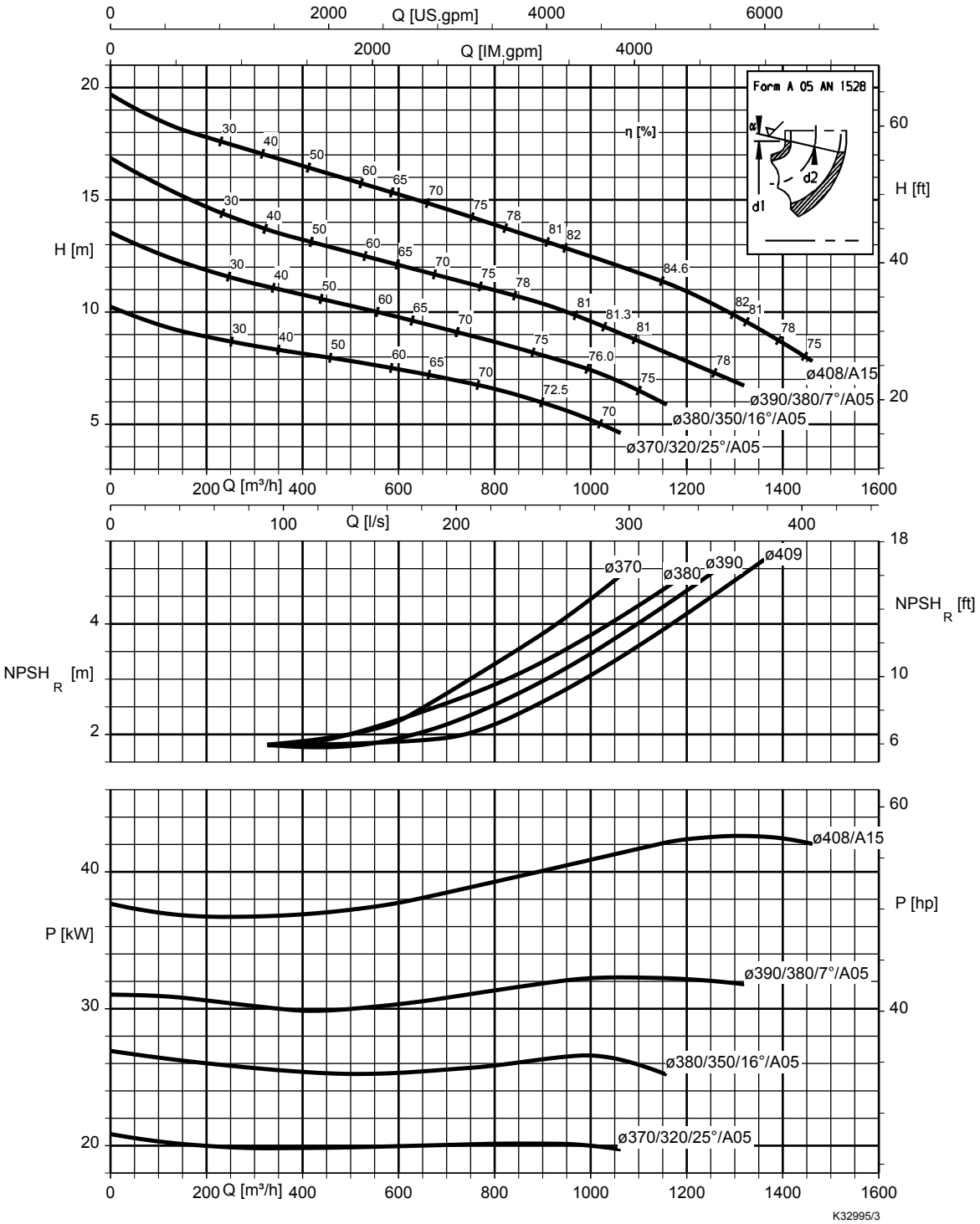
KWP K 250-250-0630, n = 875 min⁻¹



KWP K 250-250-0634, n = 875 min⁻¹



KWP K 300-300-0400, n = 875 min⁻¹



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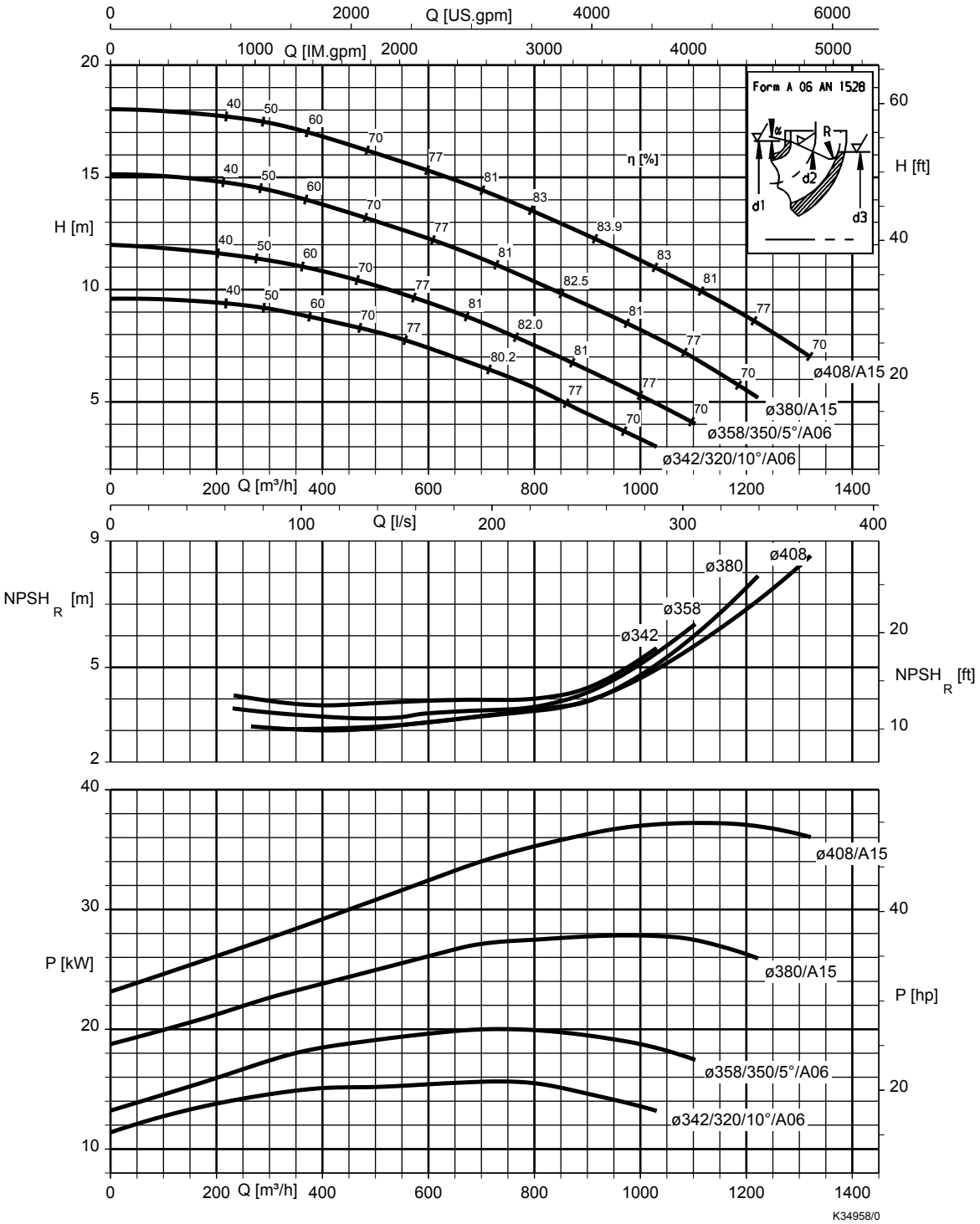
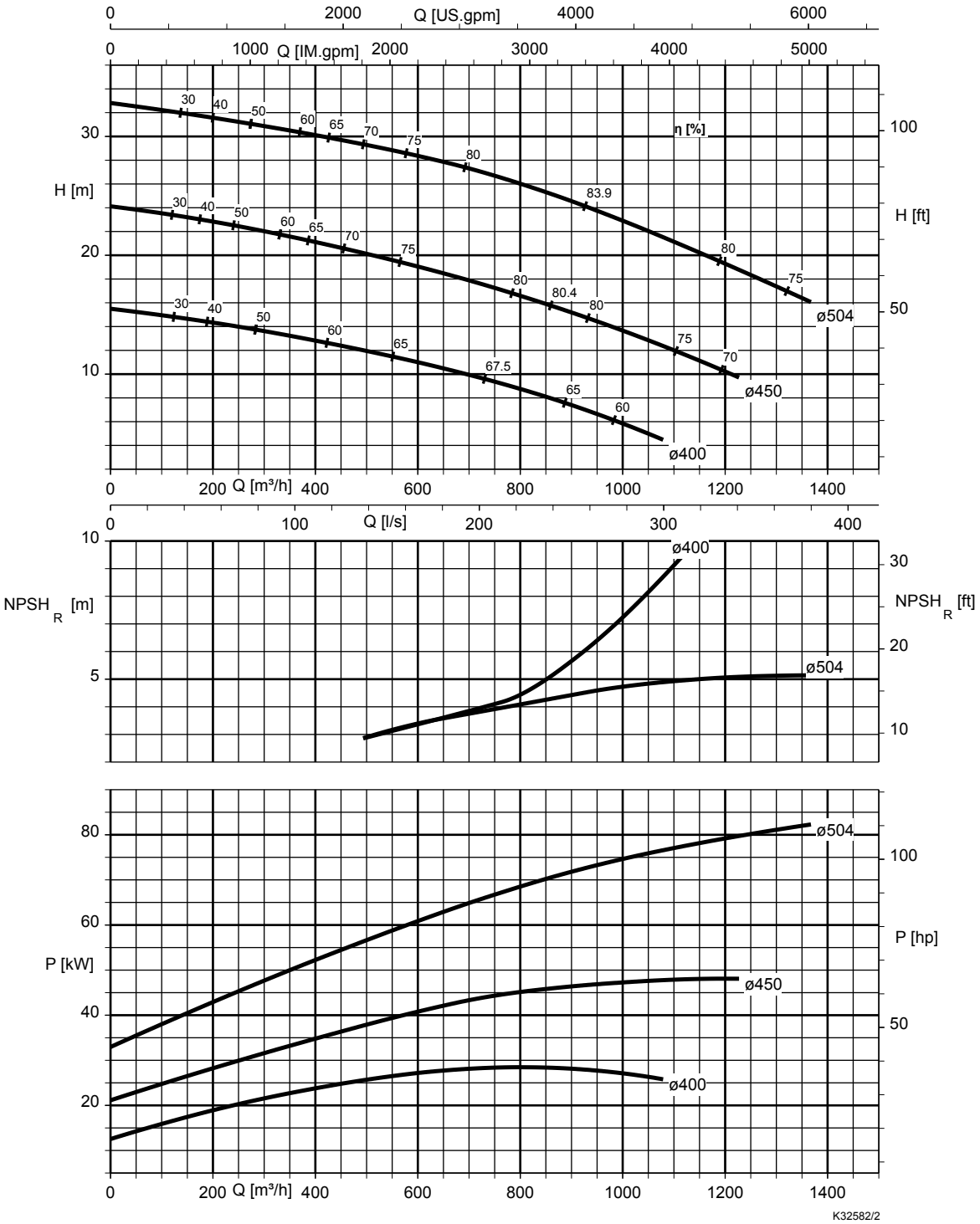
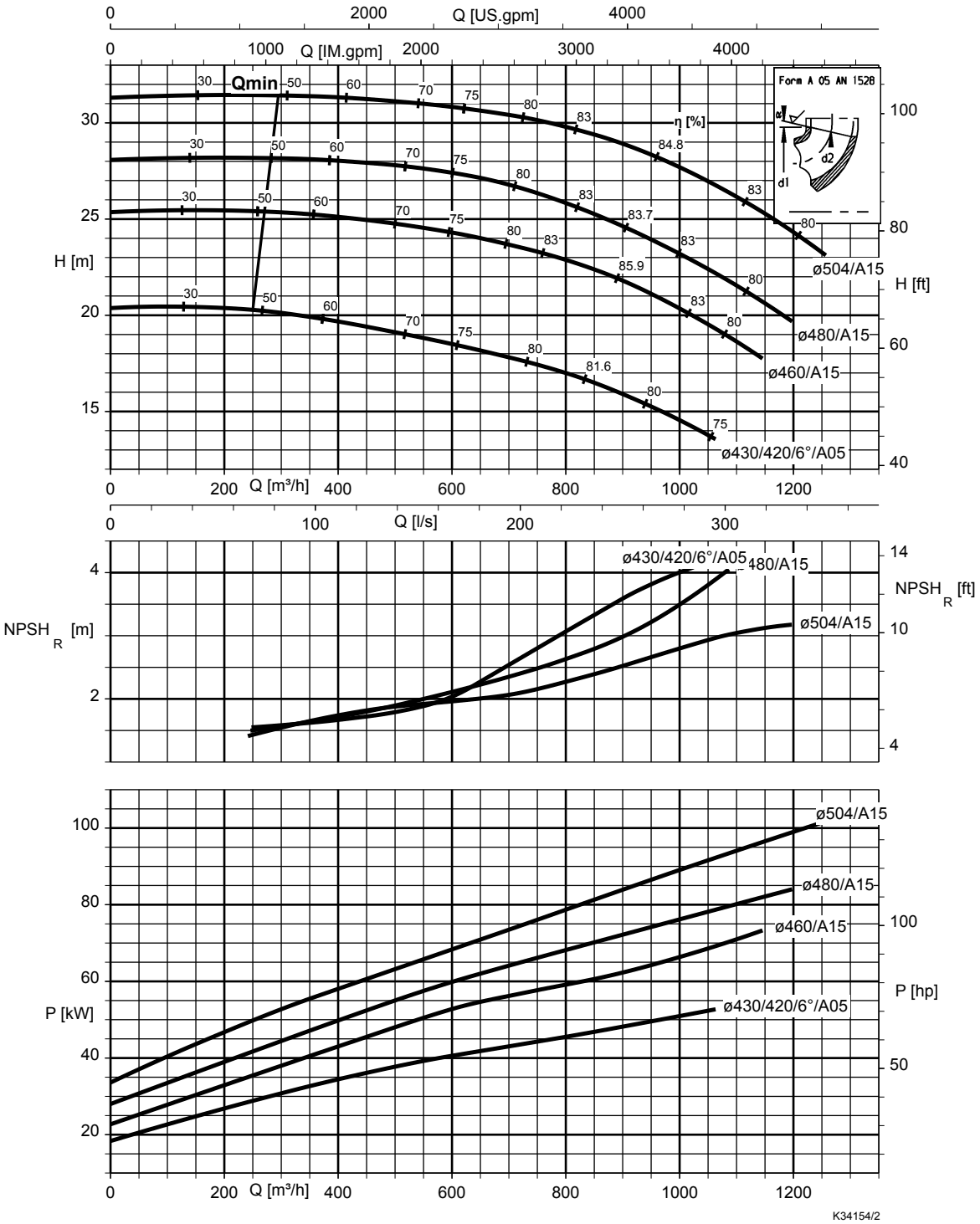


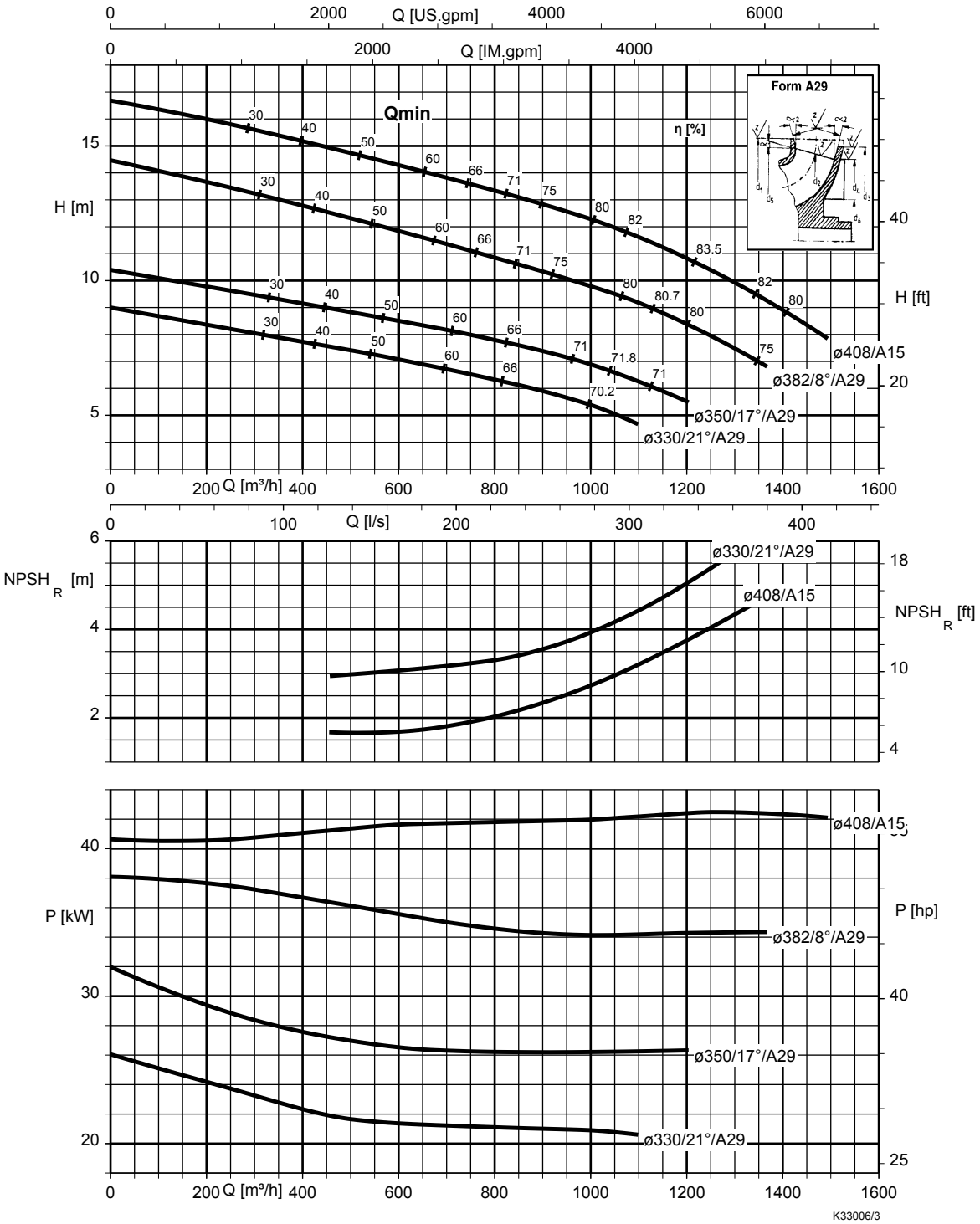
KWP K 300-300-0500, n = 875 min⁻¹



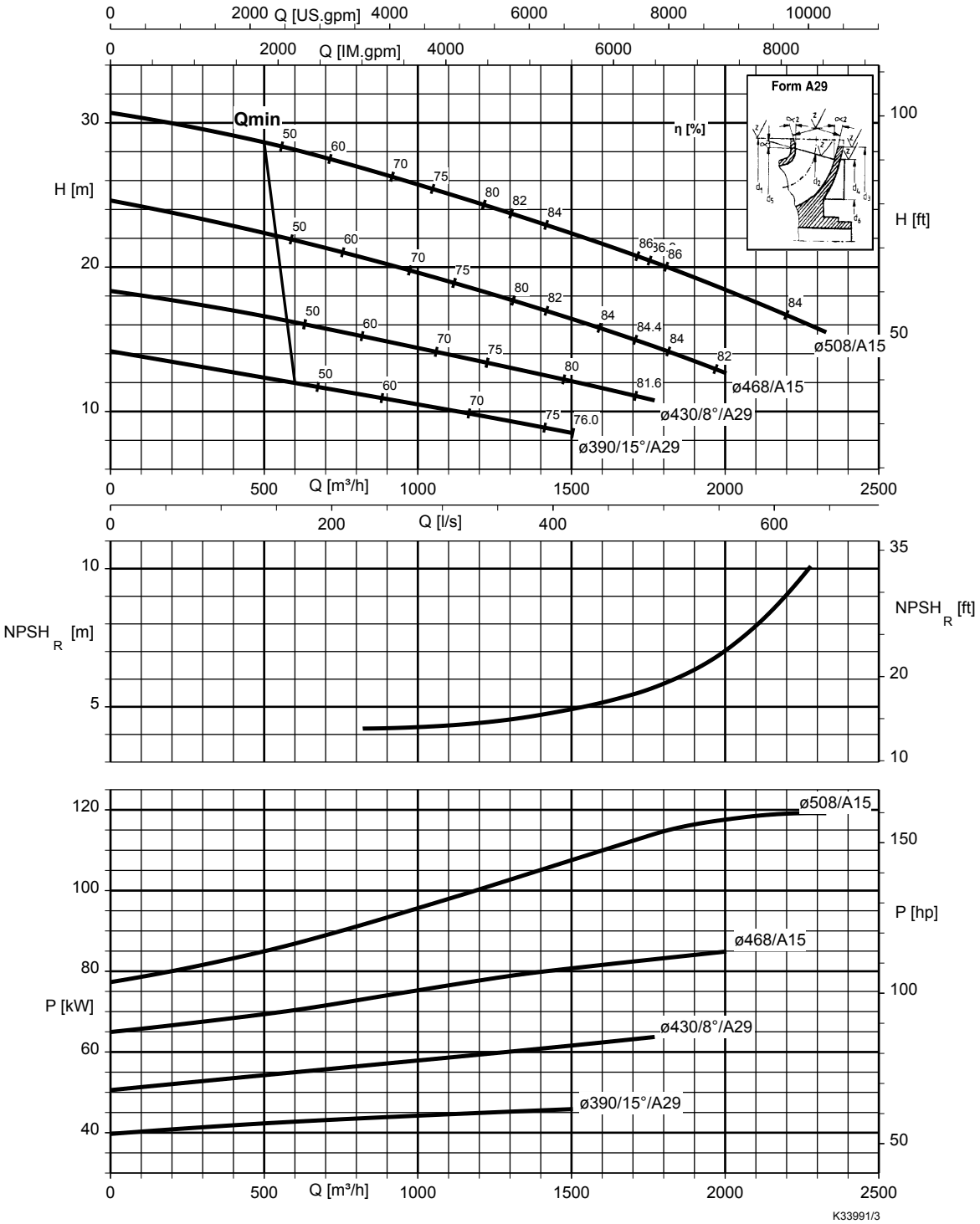
KWP K 300-300-0503, n = 875 min⁻¹



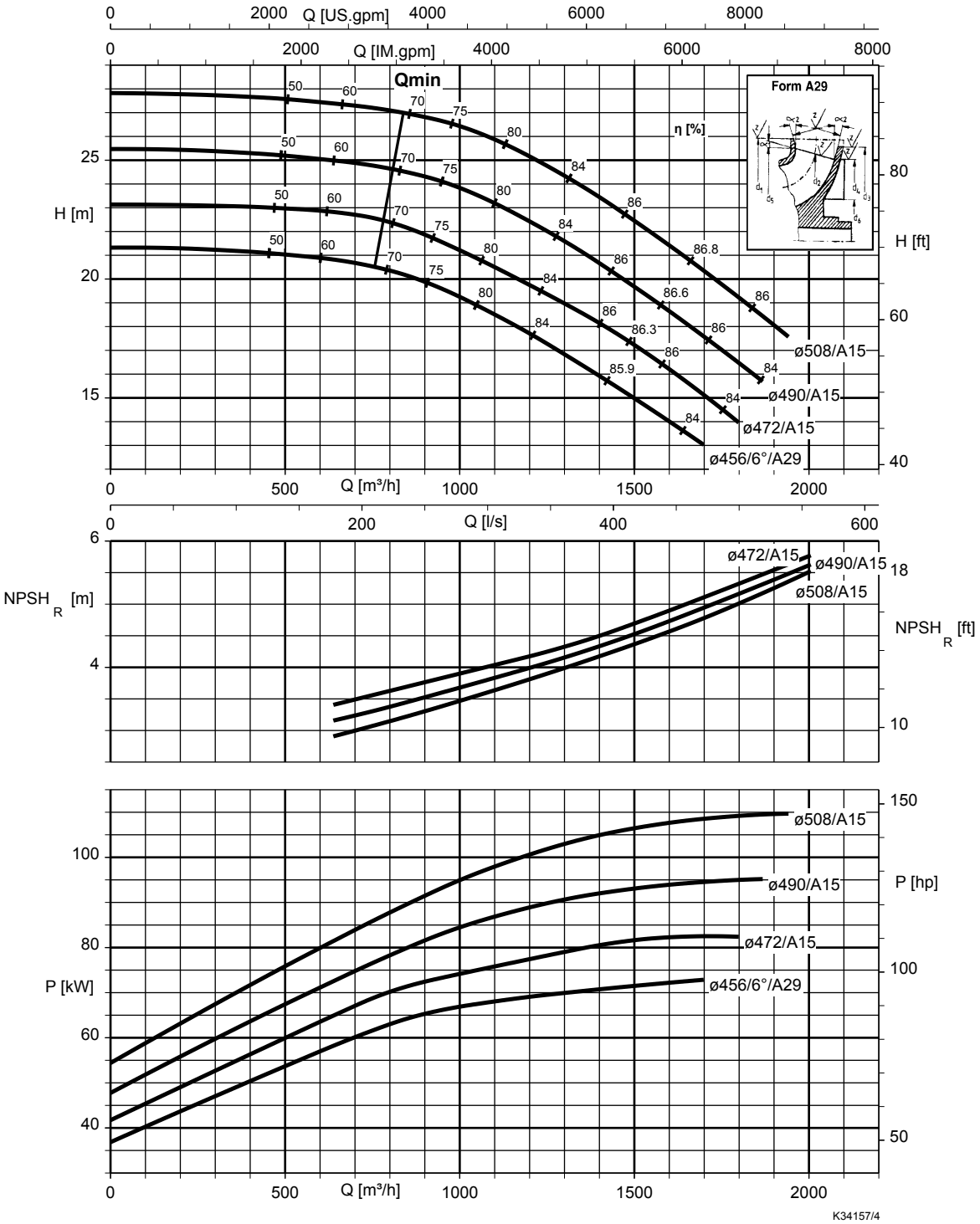
KWP K 350-350-0400, n = 875 min⁻¹



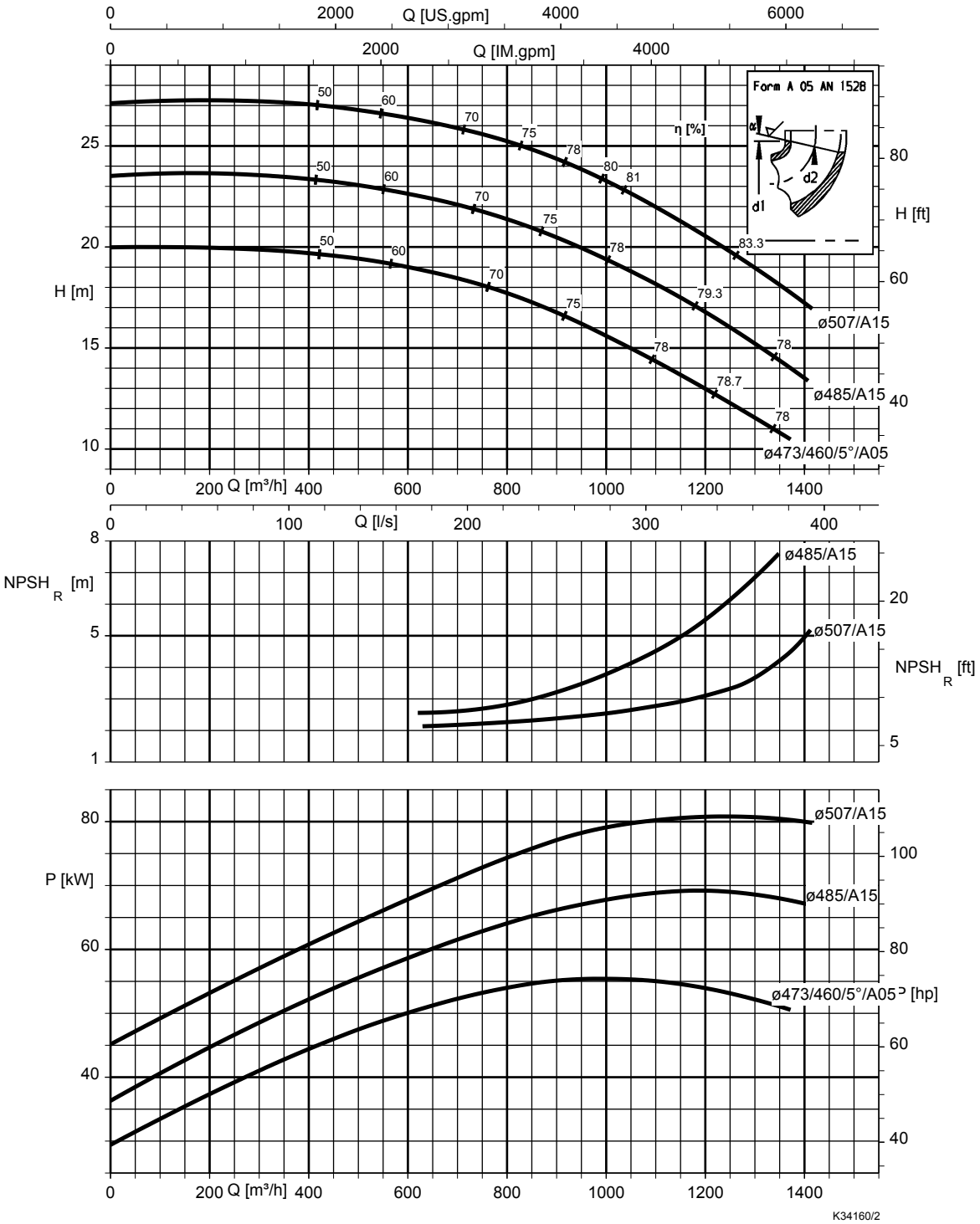
KWP K 350-350-0500, n = 875 min⁻¹



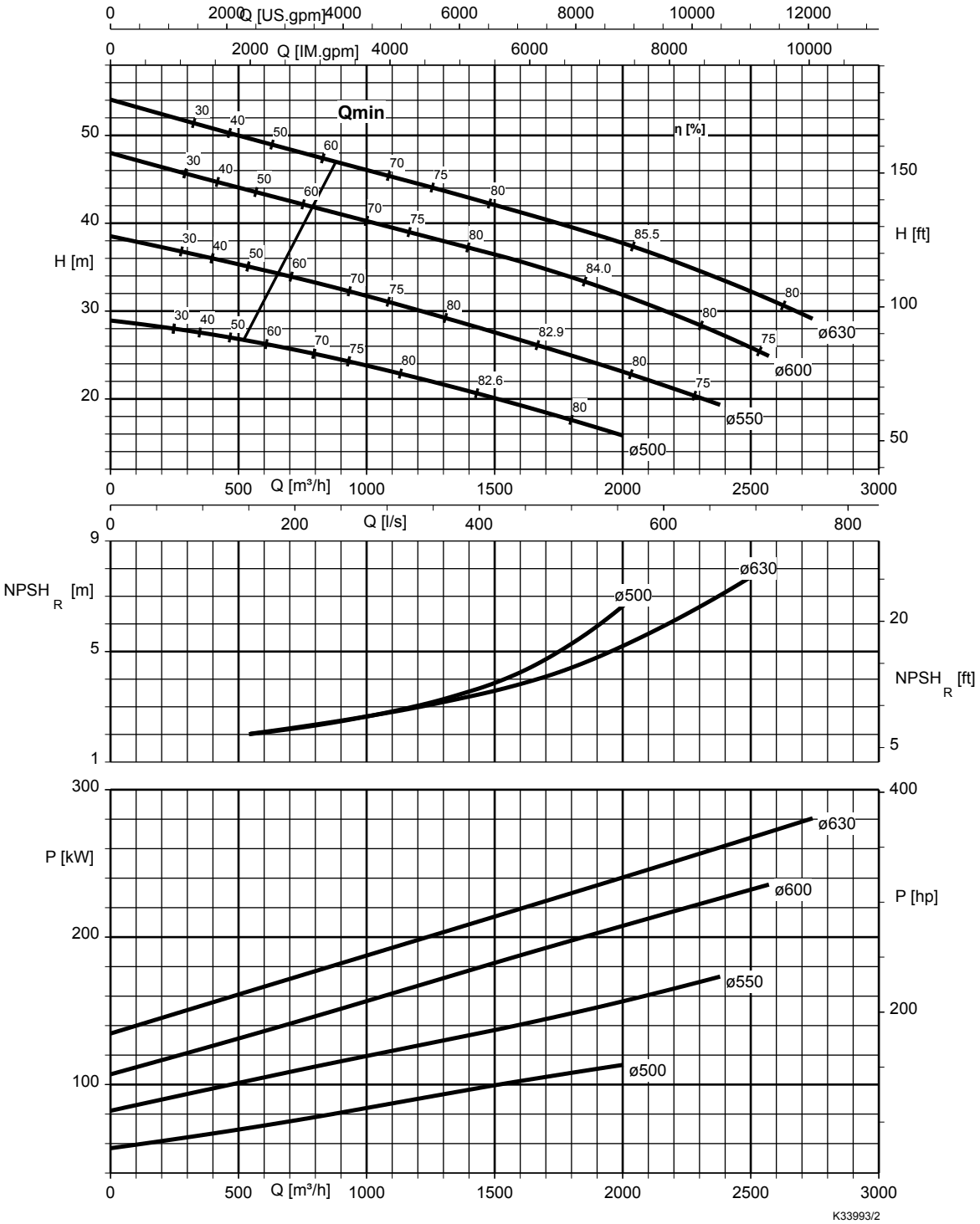
KWP K 350-350-0503, n = 875 min⁻¹



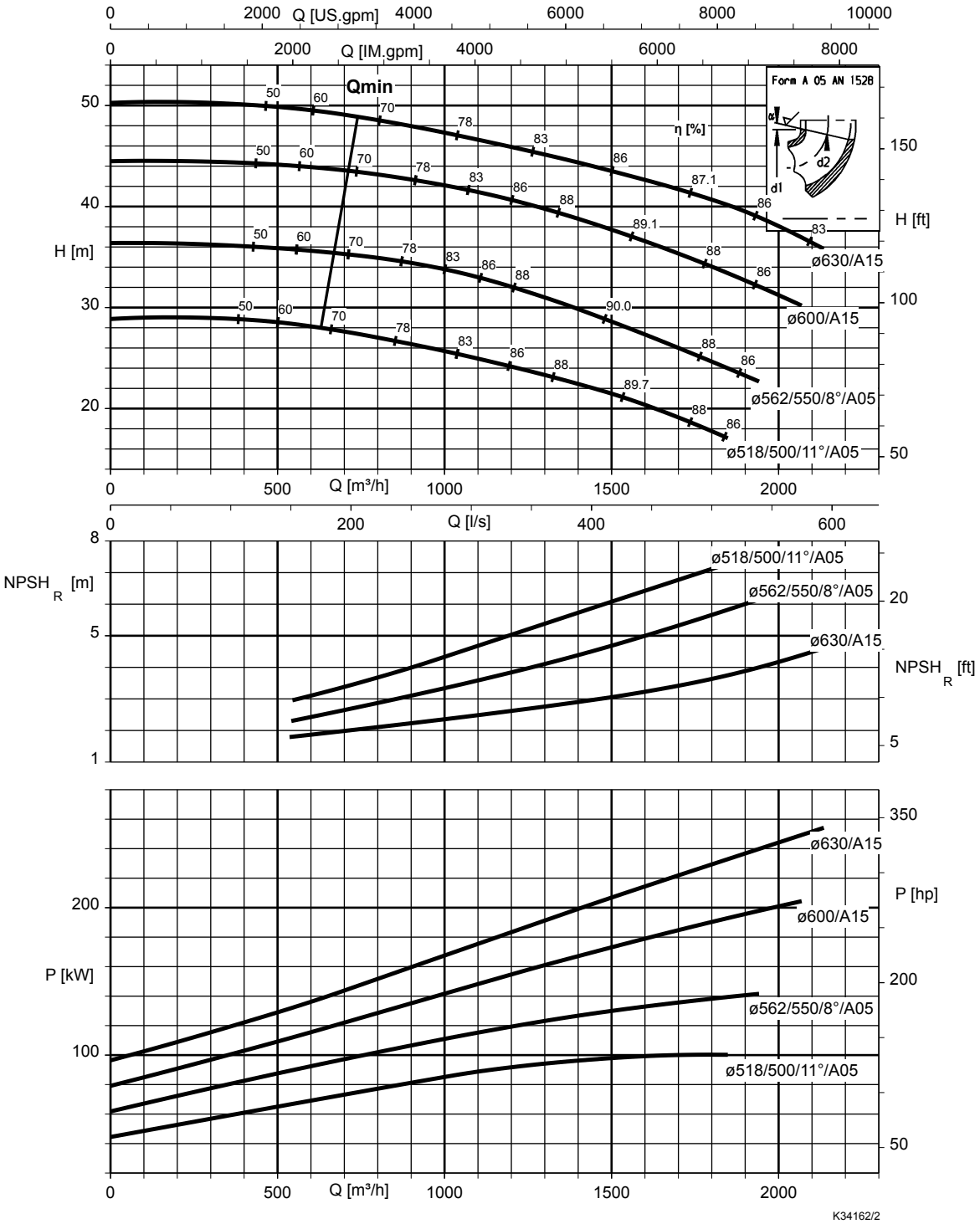
KWP K 350-350-0504, n = 875 min⁻¹



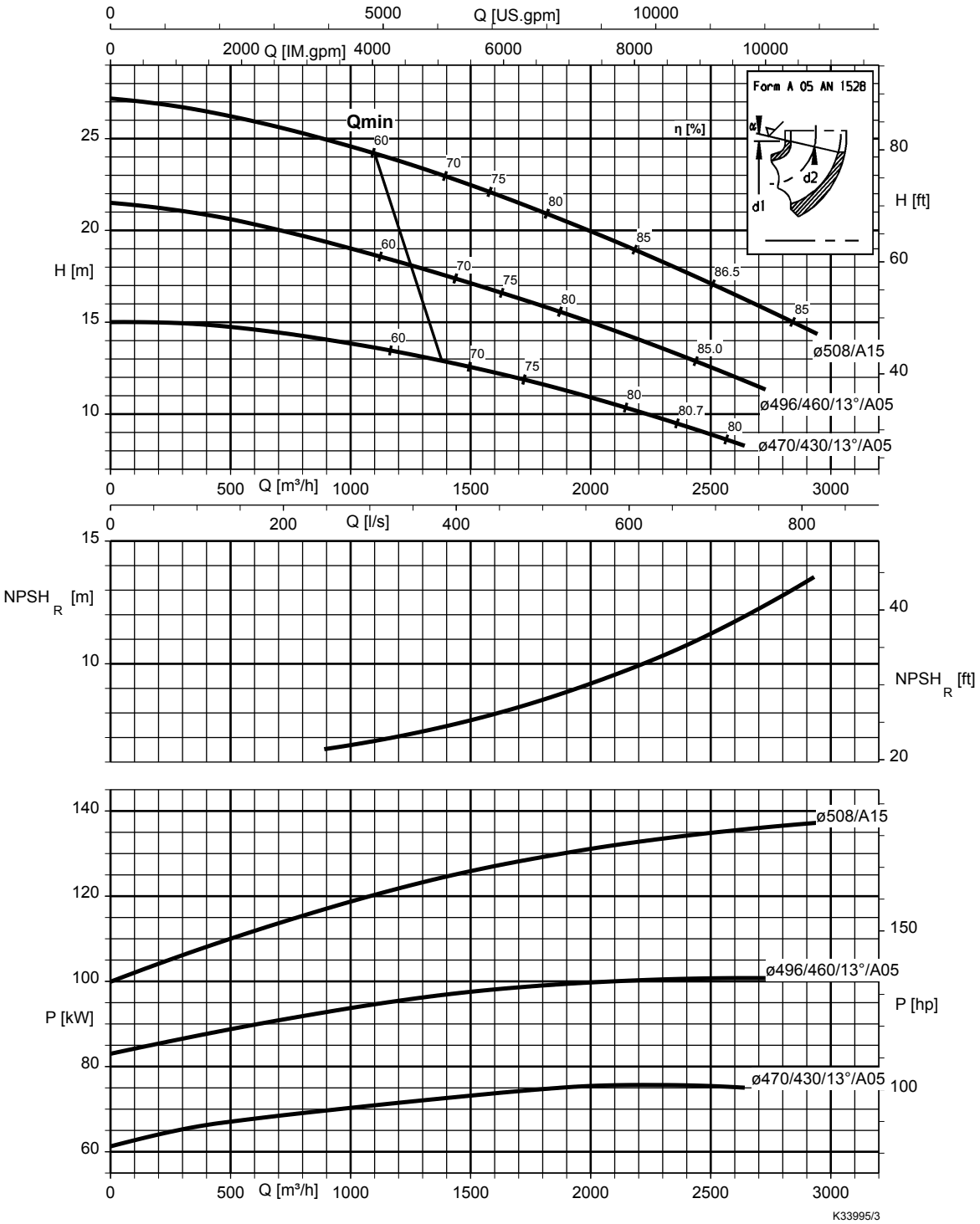
KWP K 350-350-0630, n = 875 min⁻¹



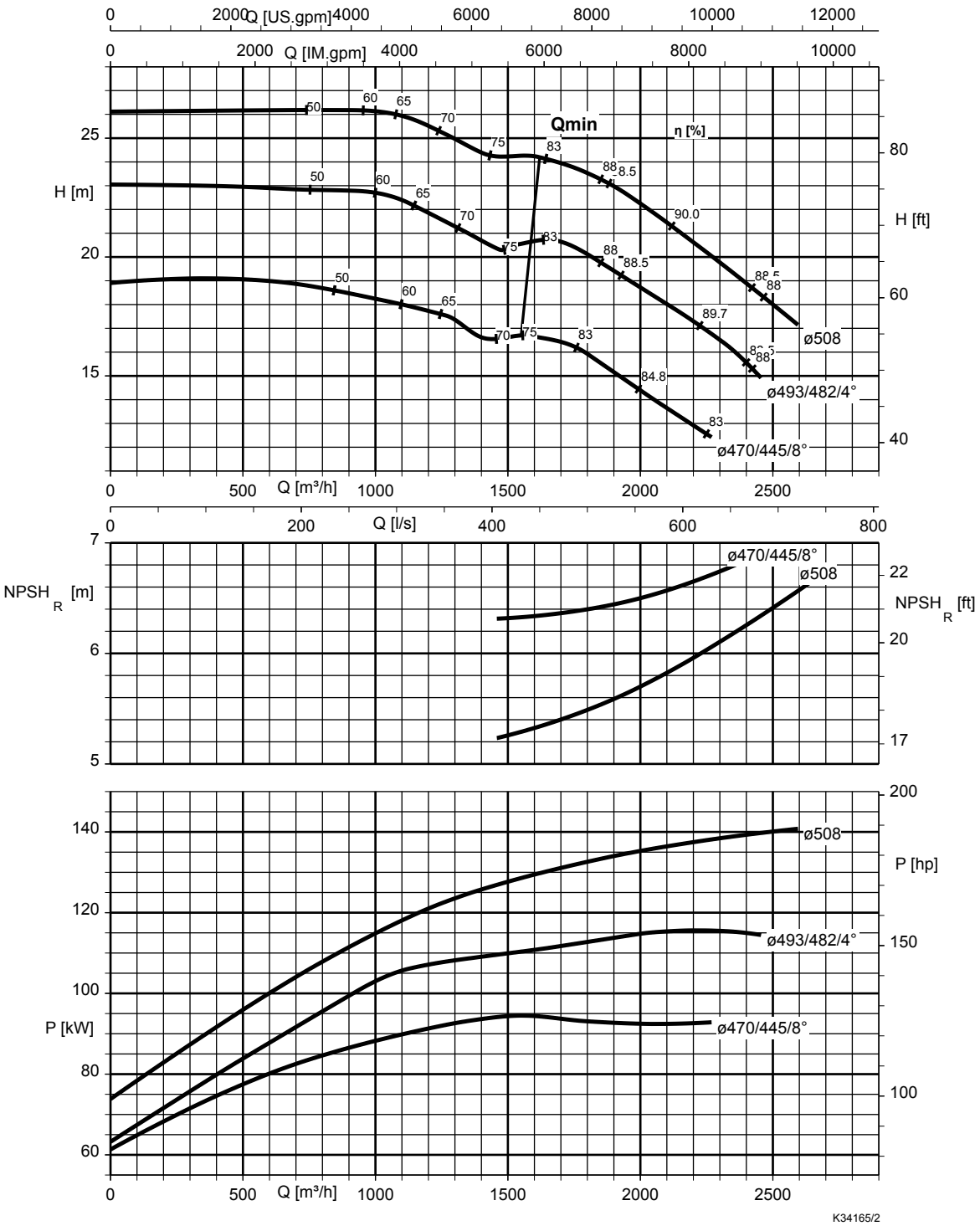
KWP K 350-350-0633, n = 875 min⁻¹



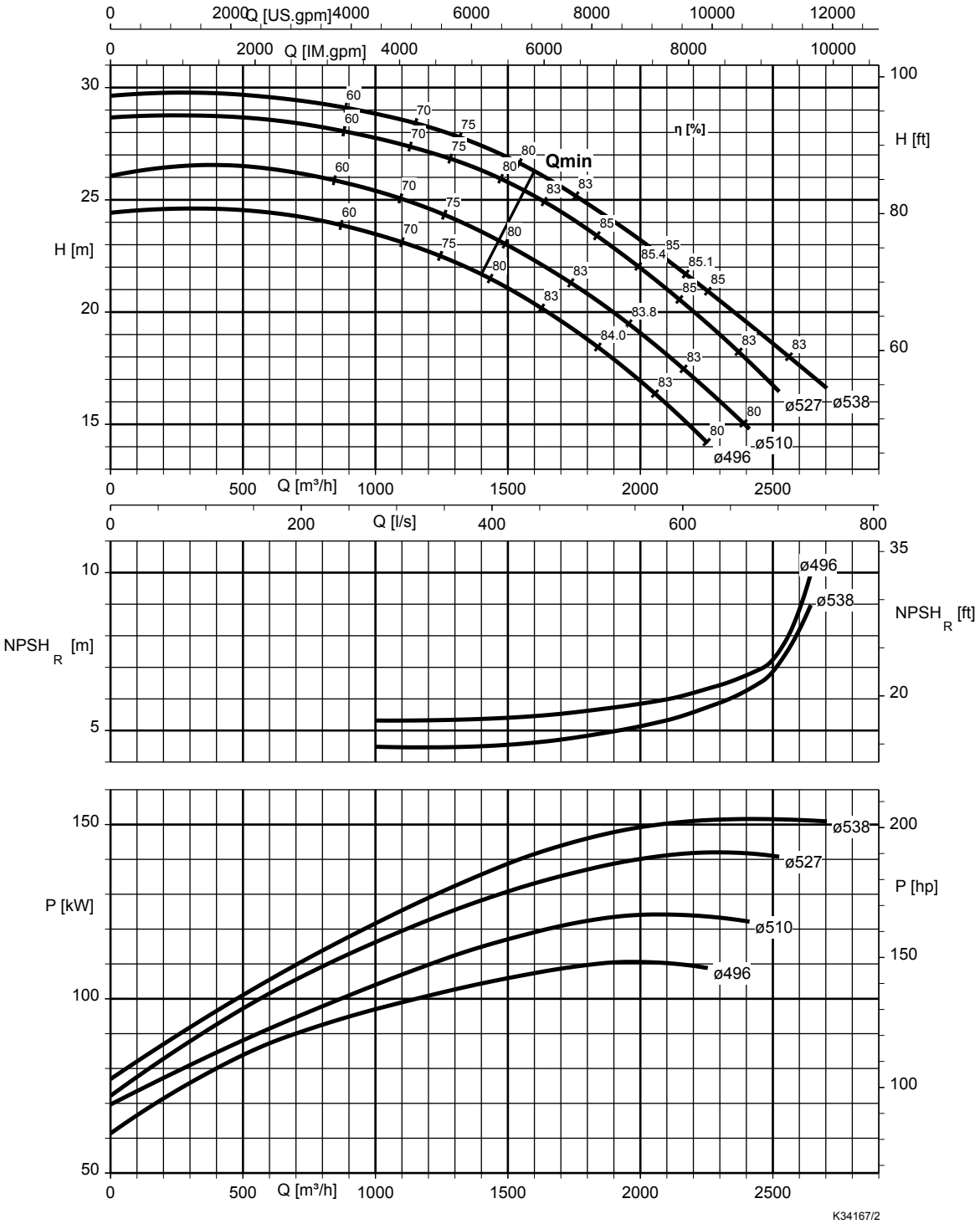
KWP K 400-400-0500, n = 875 min⁻¹



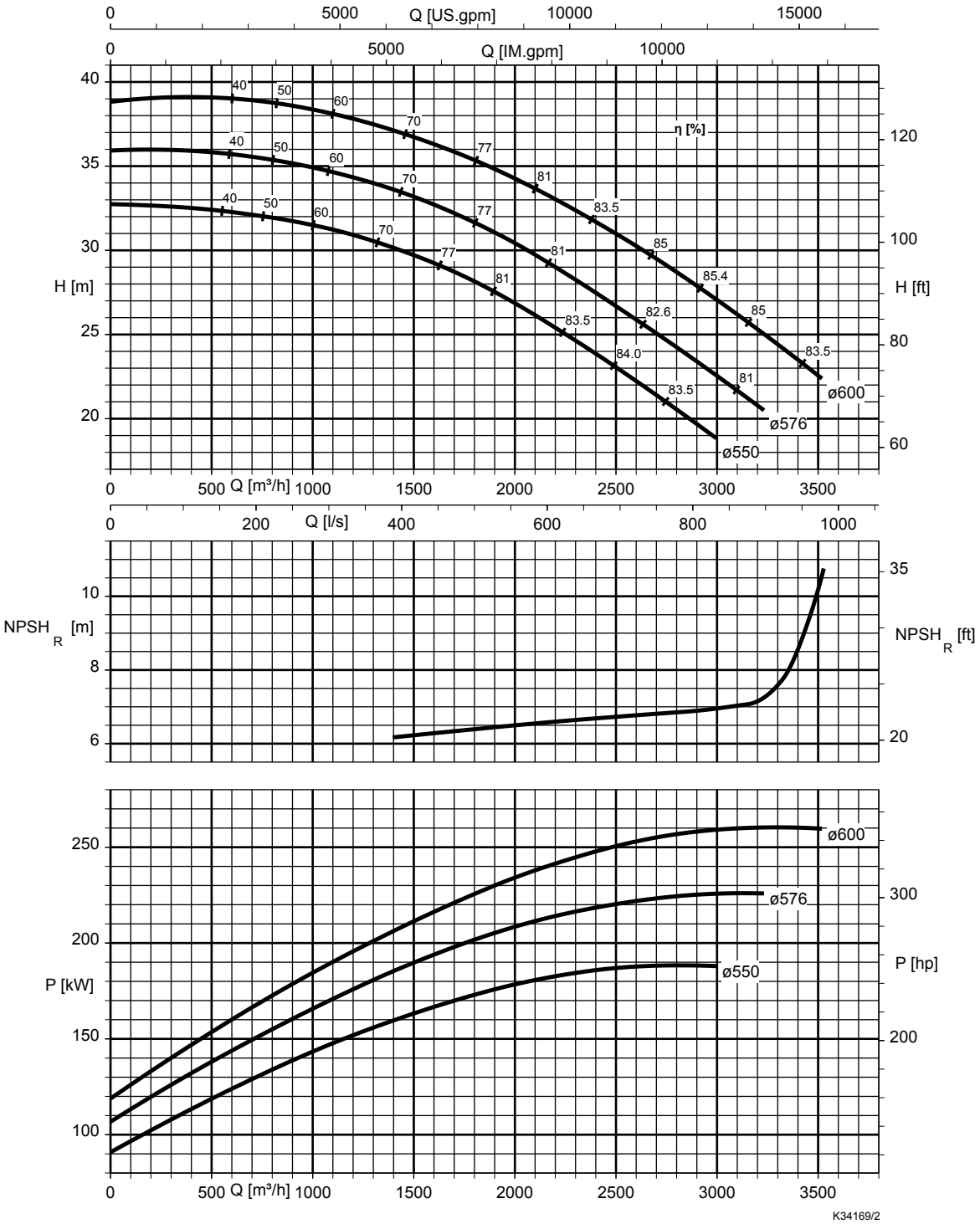
KWP K 400-400-0503, n = 875 min⁻¹



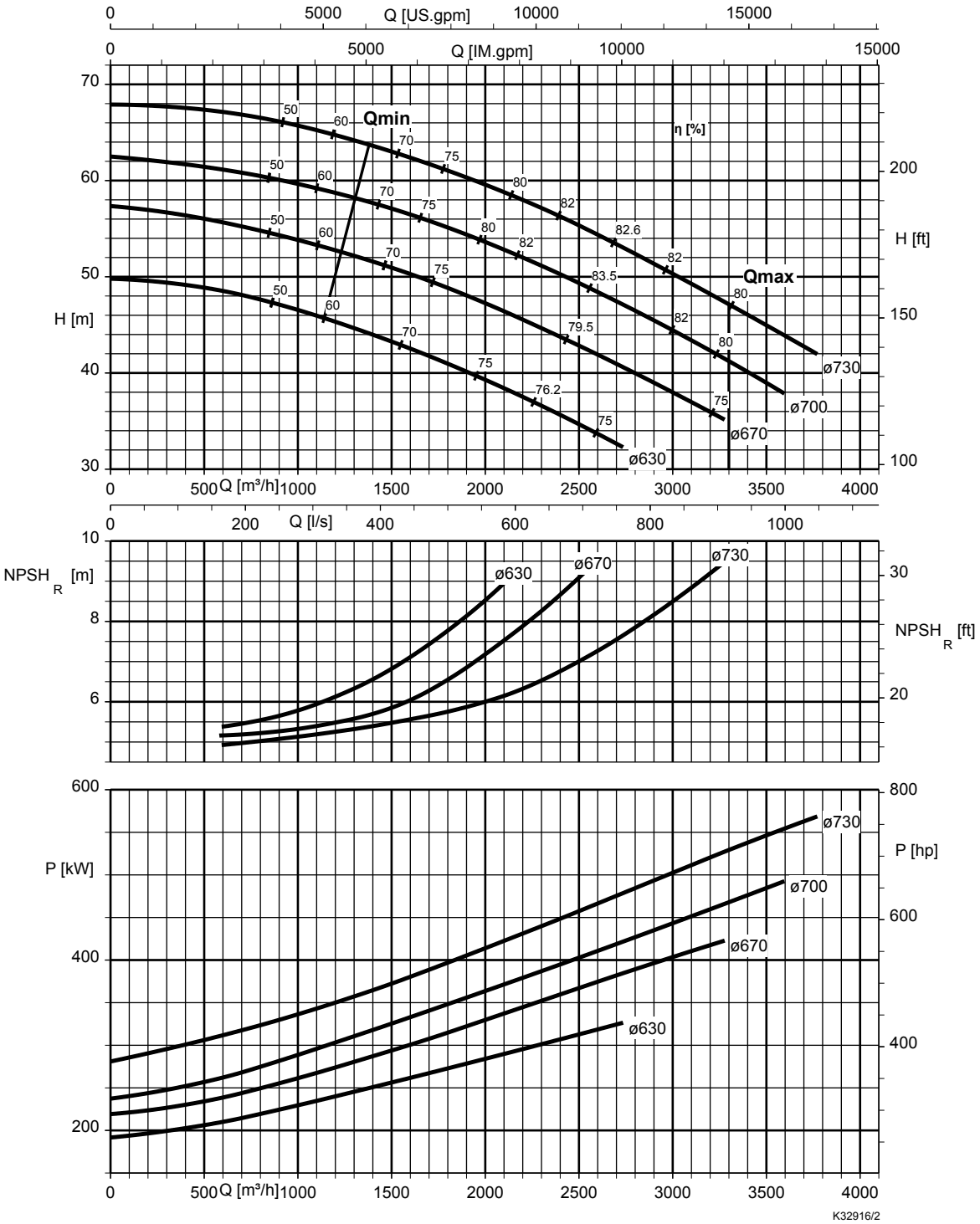
KWP K 400-400-0533, n = 875 min⁻¹



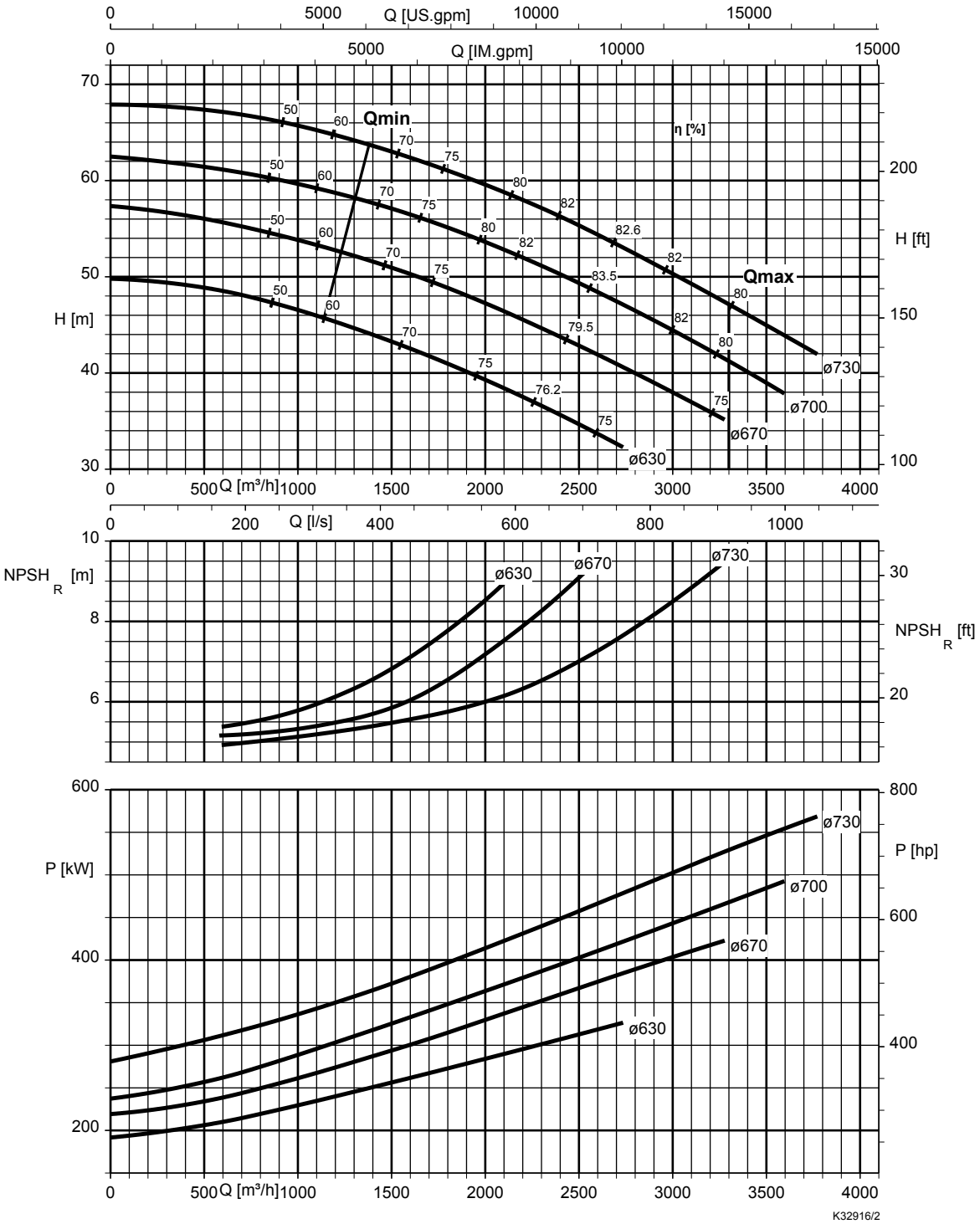
KWP K 400-400-0583, n = 875 min⁻¹



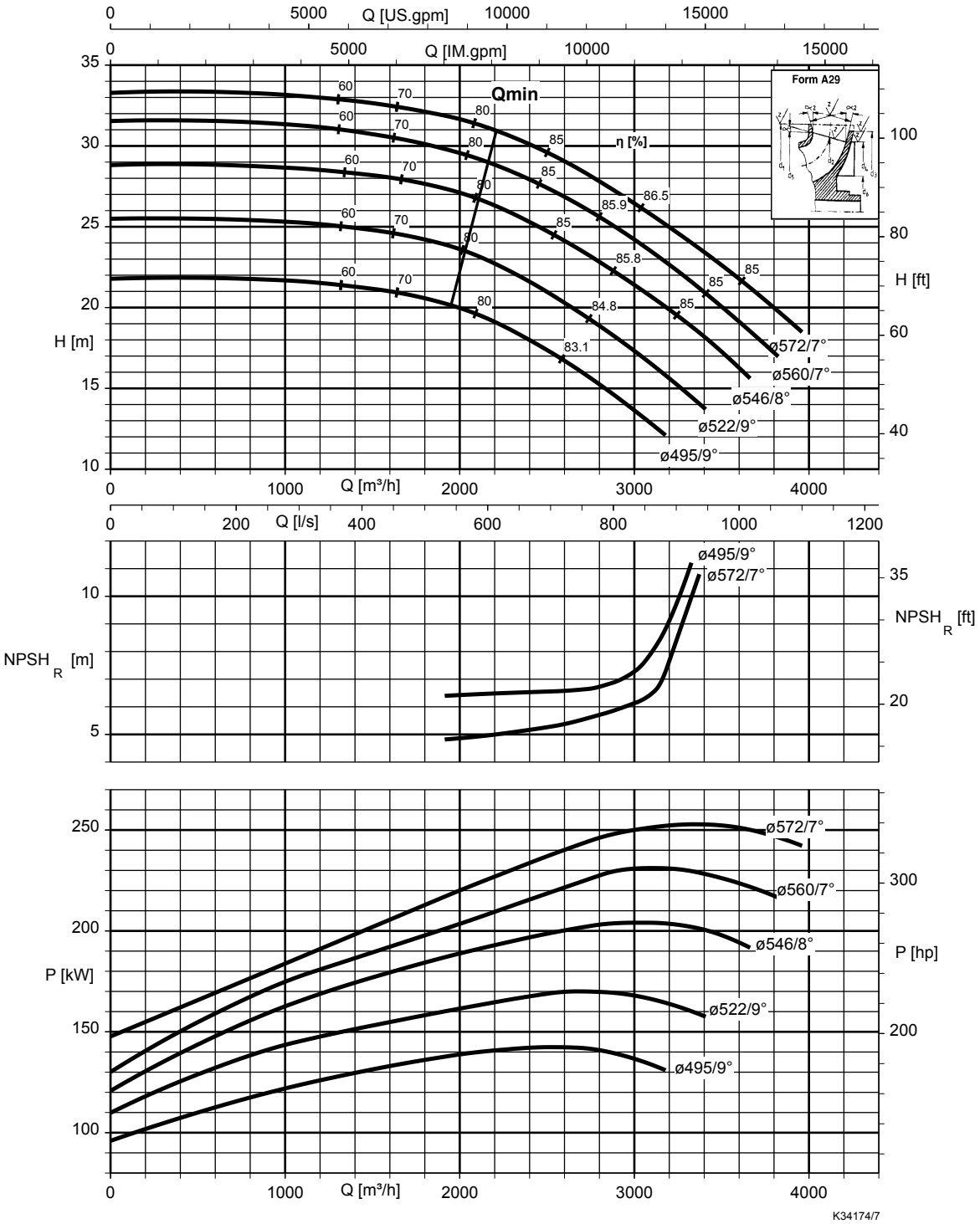
KWP K 500-400-0710, n = 875 min⁻¹



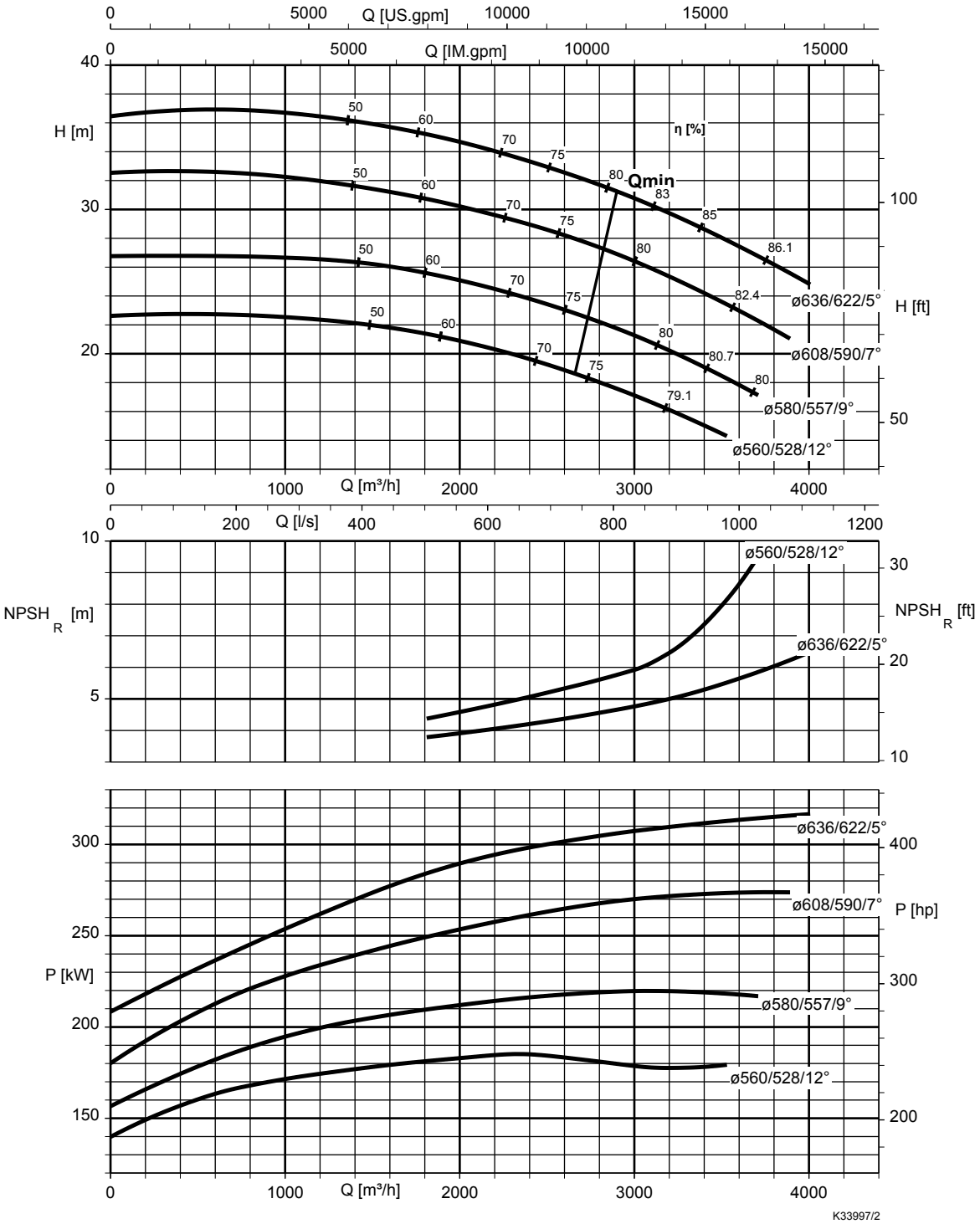
KWP K 500-400-0713, n = 875 min⁻¹



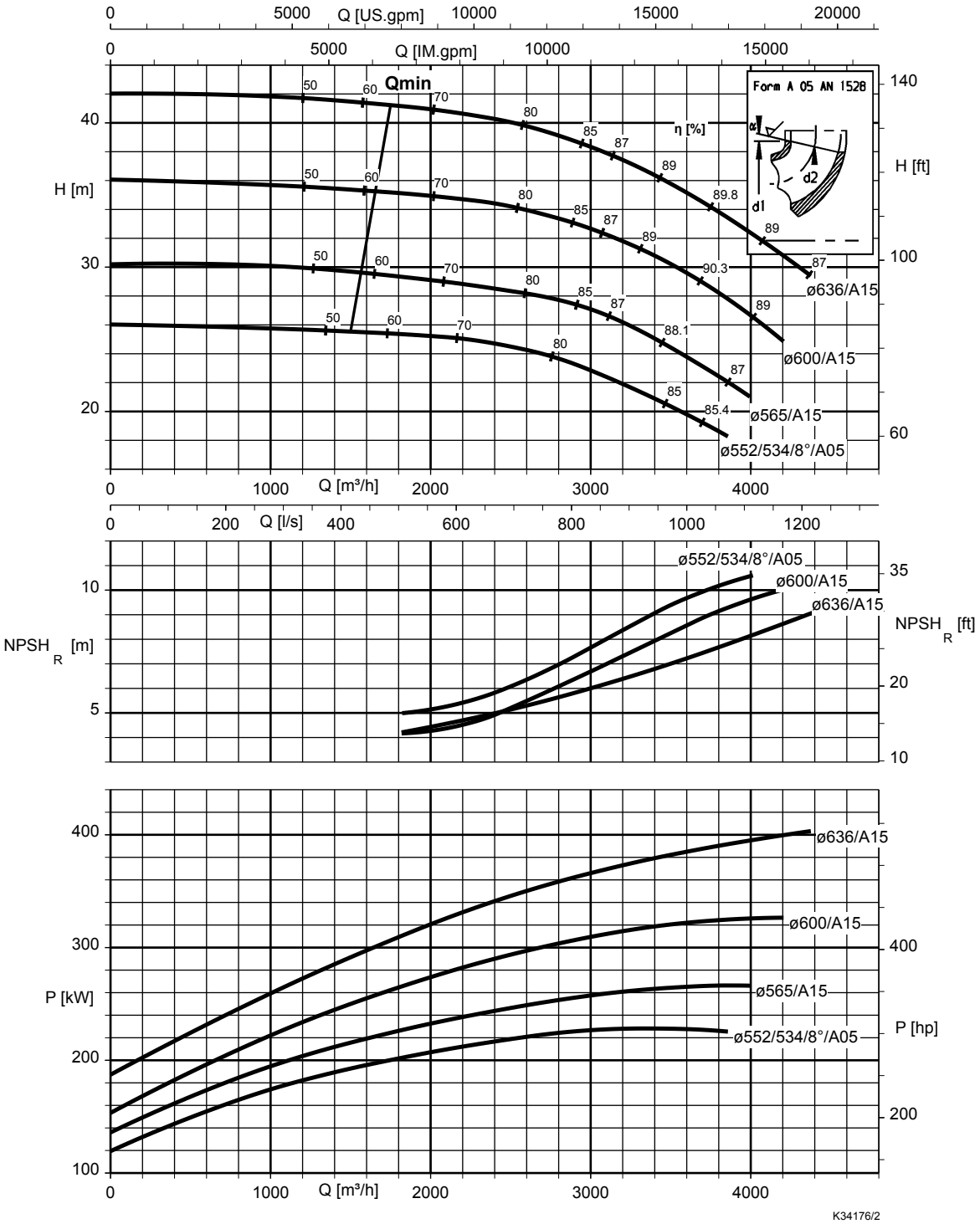
KWP K 500-500-0544, n = 875 min⁻¹



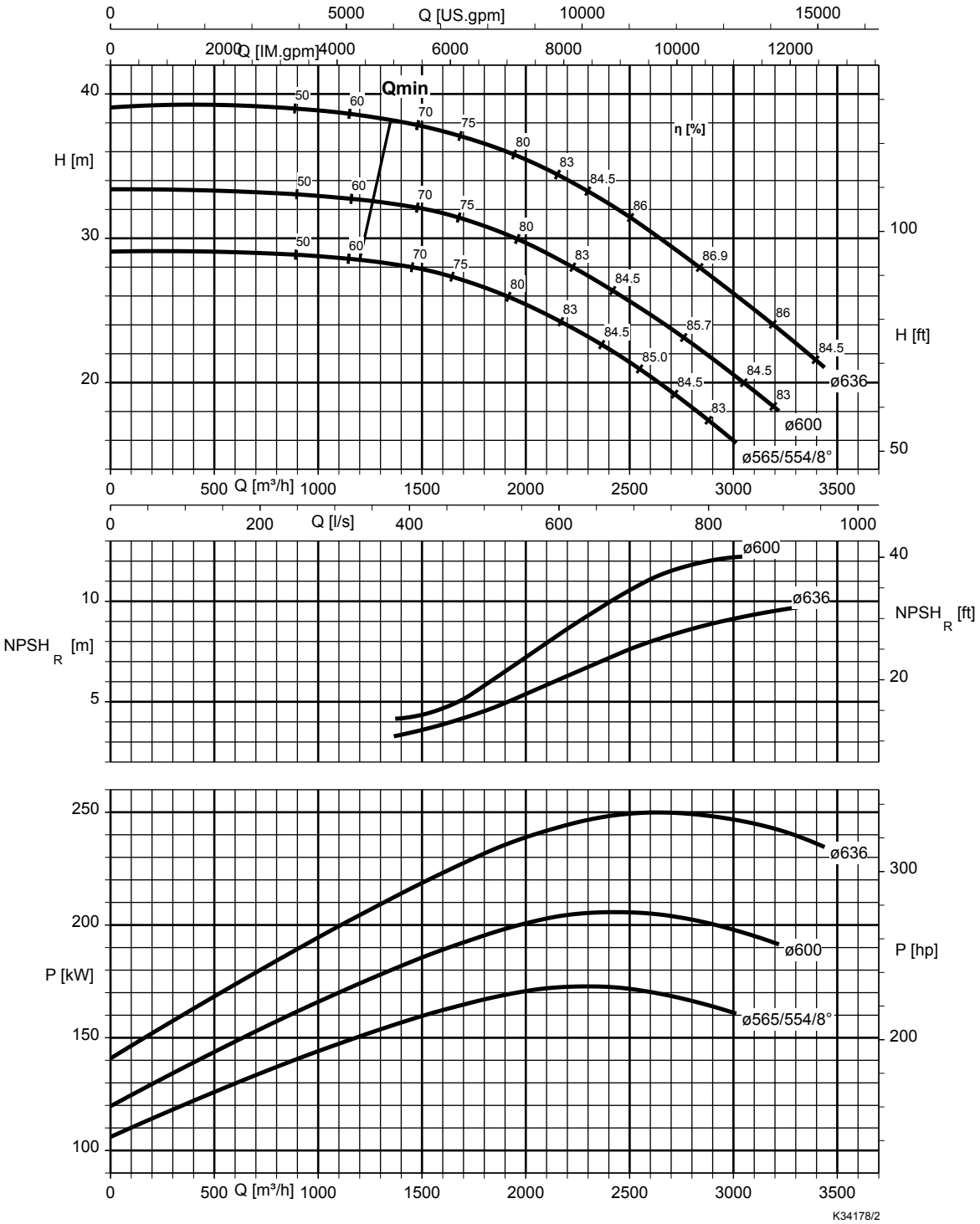
KWP K 500-500-0630, n = 875 min⁻¹



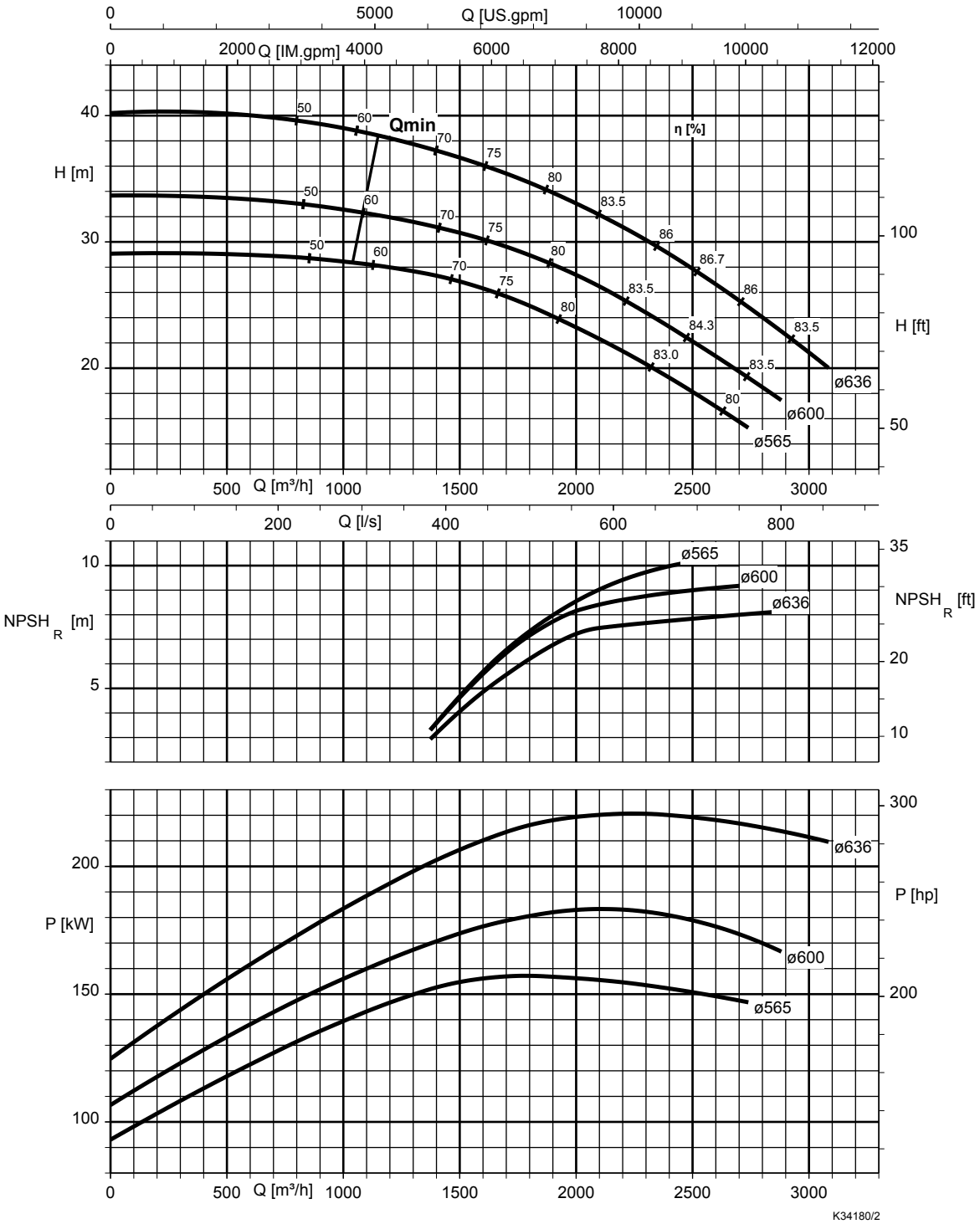
KWP K 500-500-0633, n = 875 min⁻¹



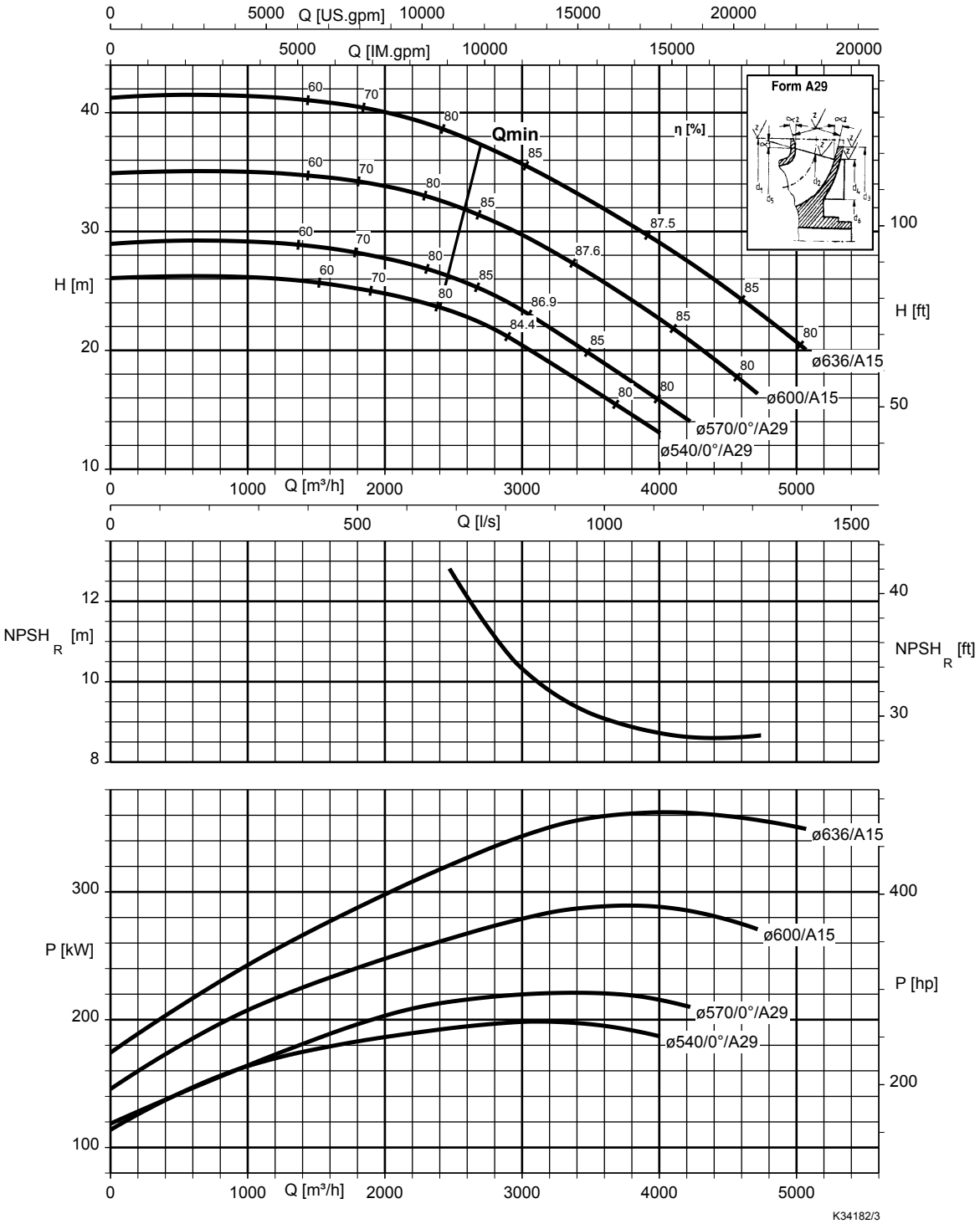
KWP K 500-500-0634, n = 875 min⁻¹



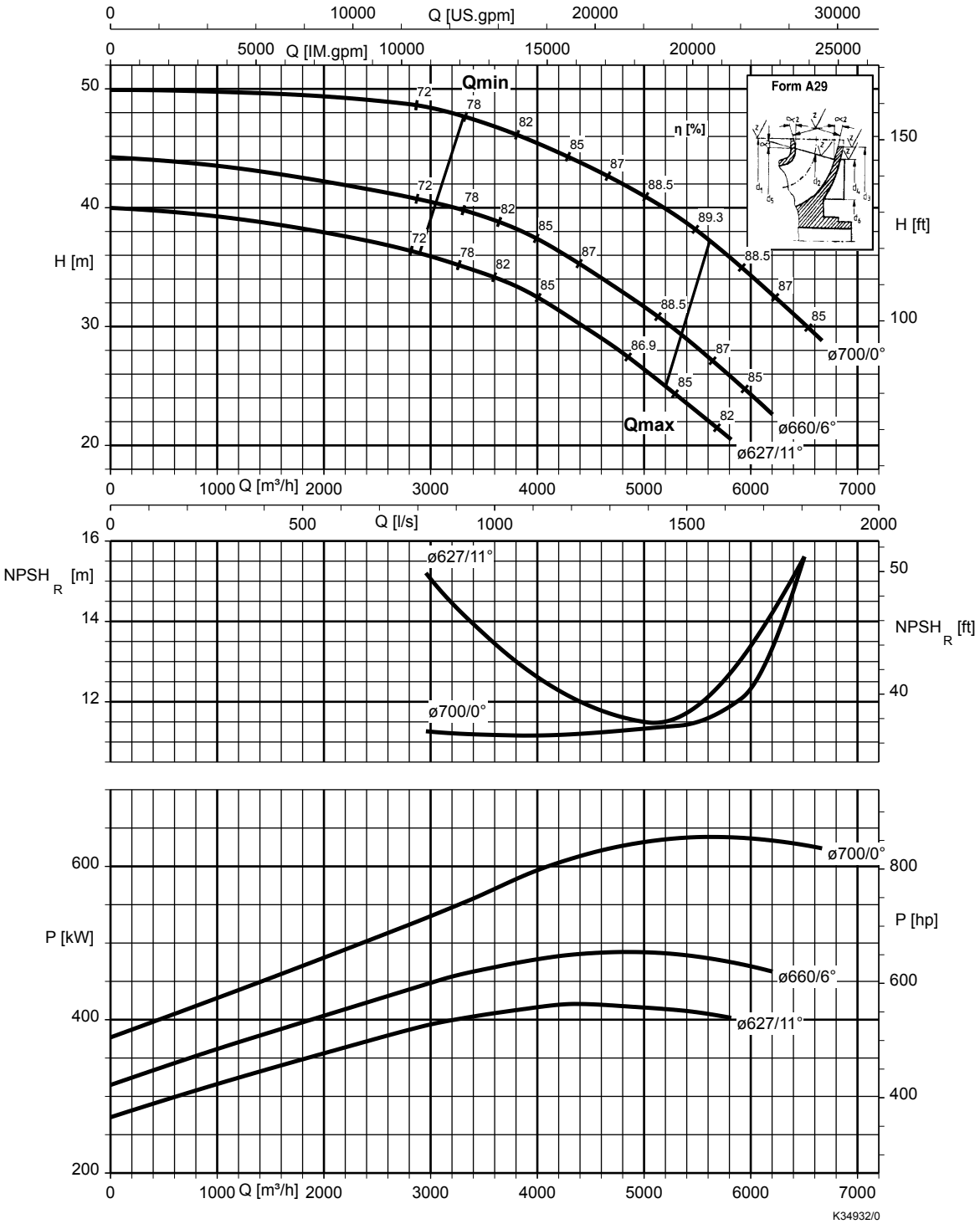
KWP K 500-500-0635, n = 875 min⁻¹



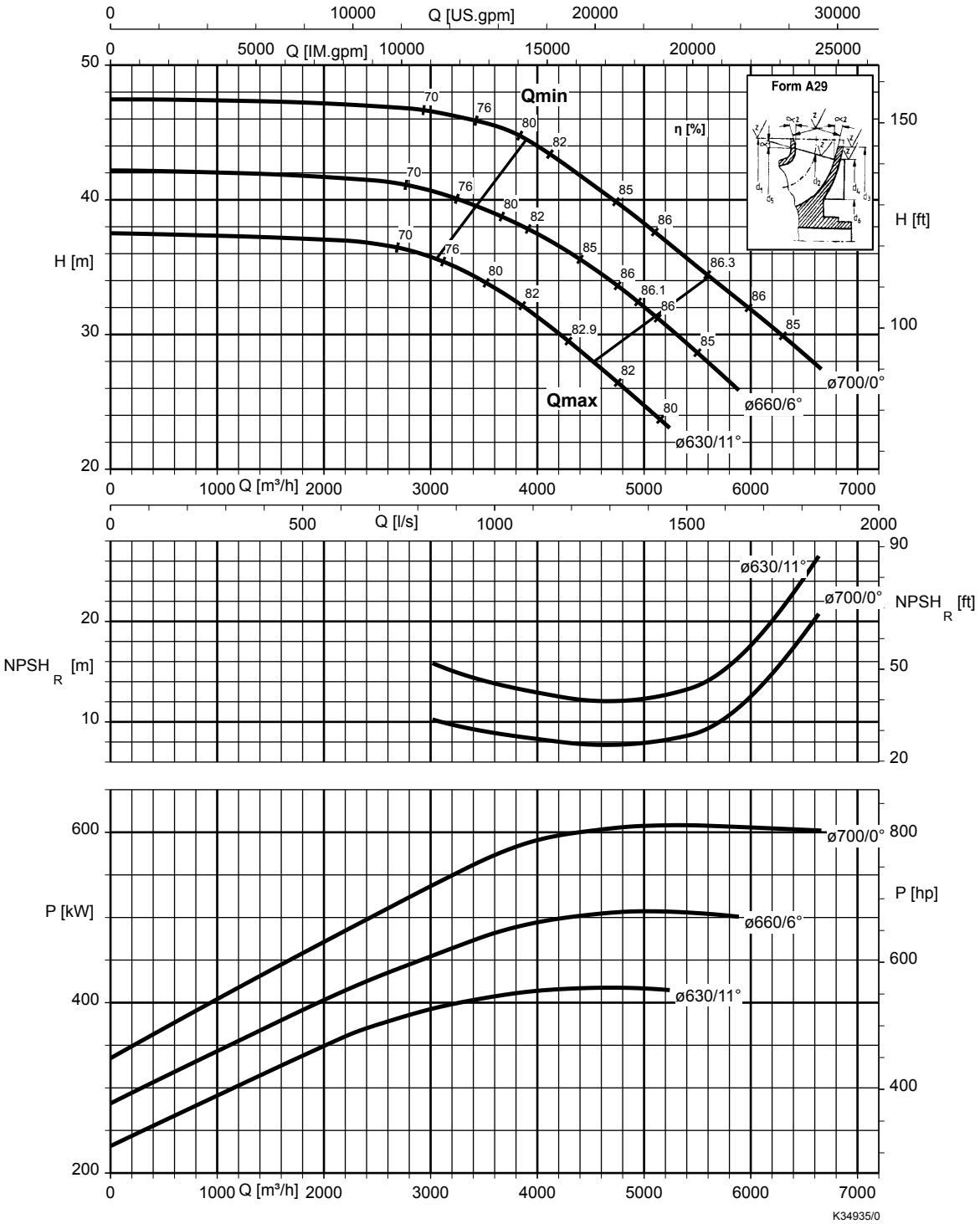
KWP K 500-500-0637, n = 875 min⁻¹



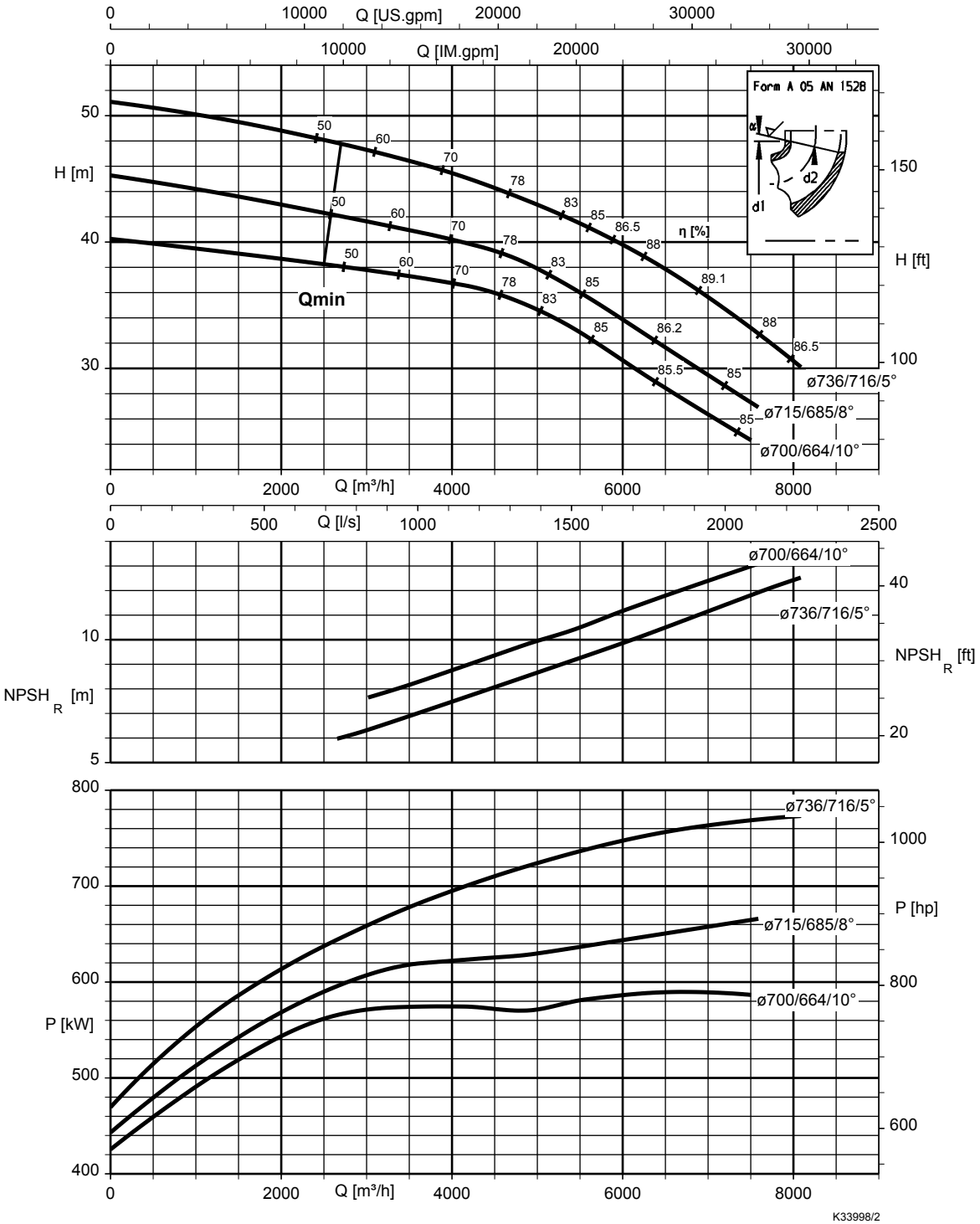
KWP K 600-600-0663, n = 875 min⁻¹



KWP K 600-600-0669, n = 875 min⁻¹

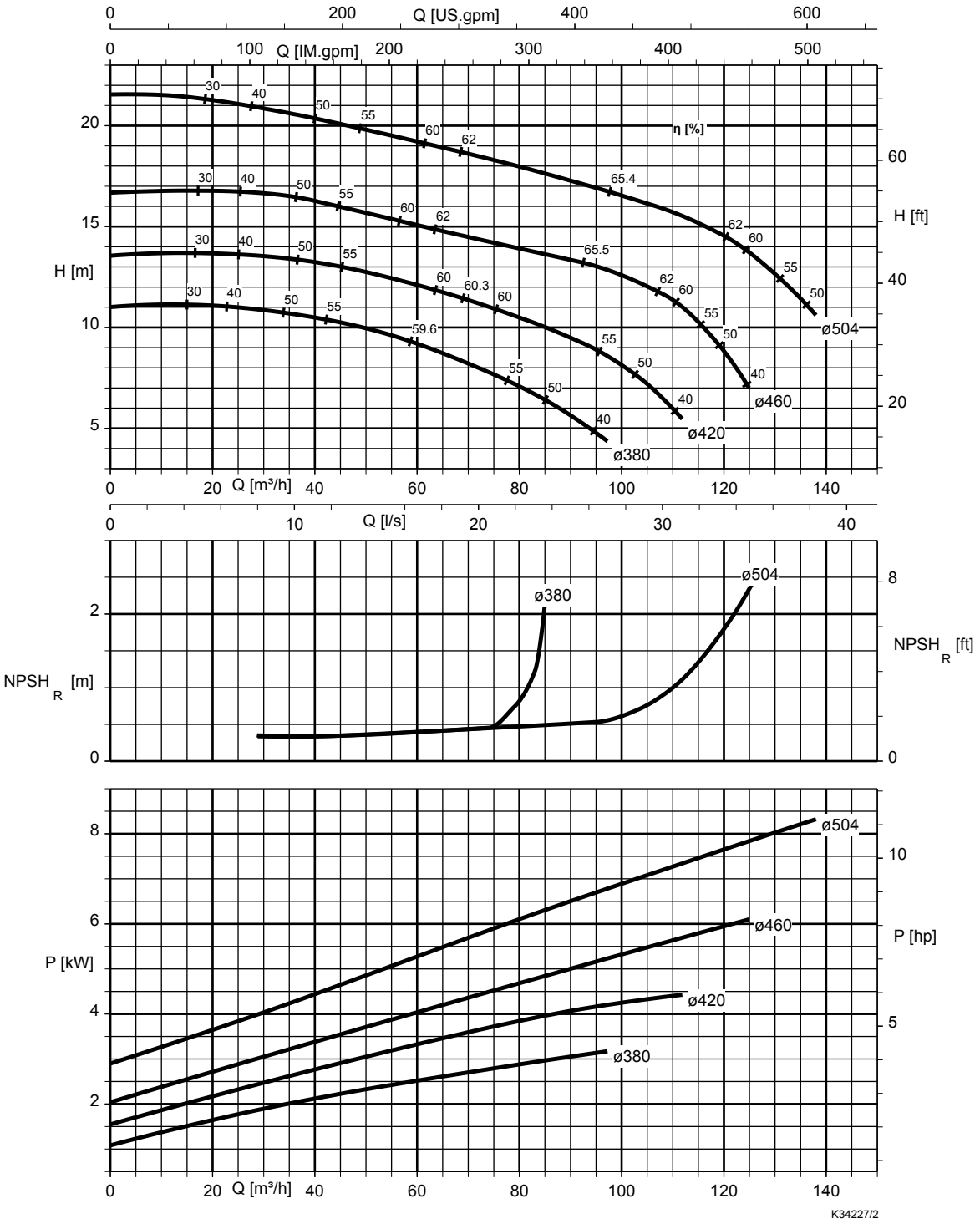


KWP K 600-600-0710, n = 875 min⁻¹

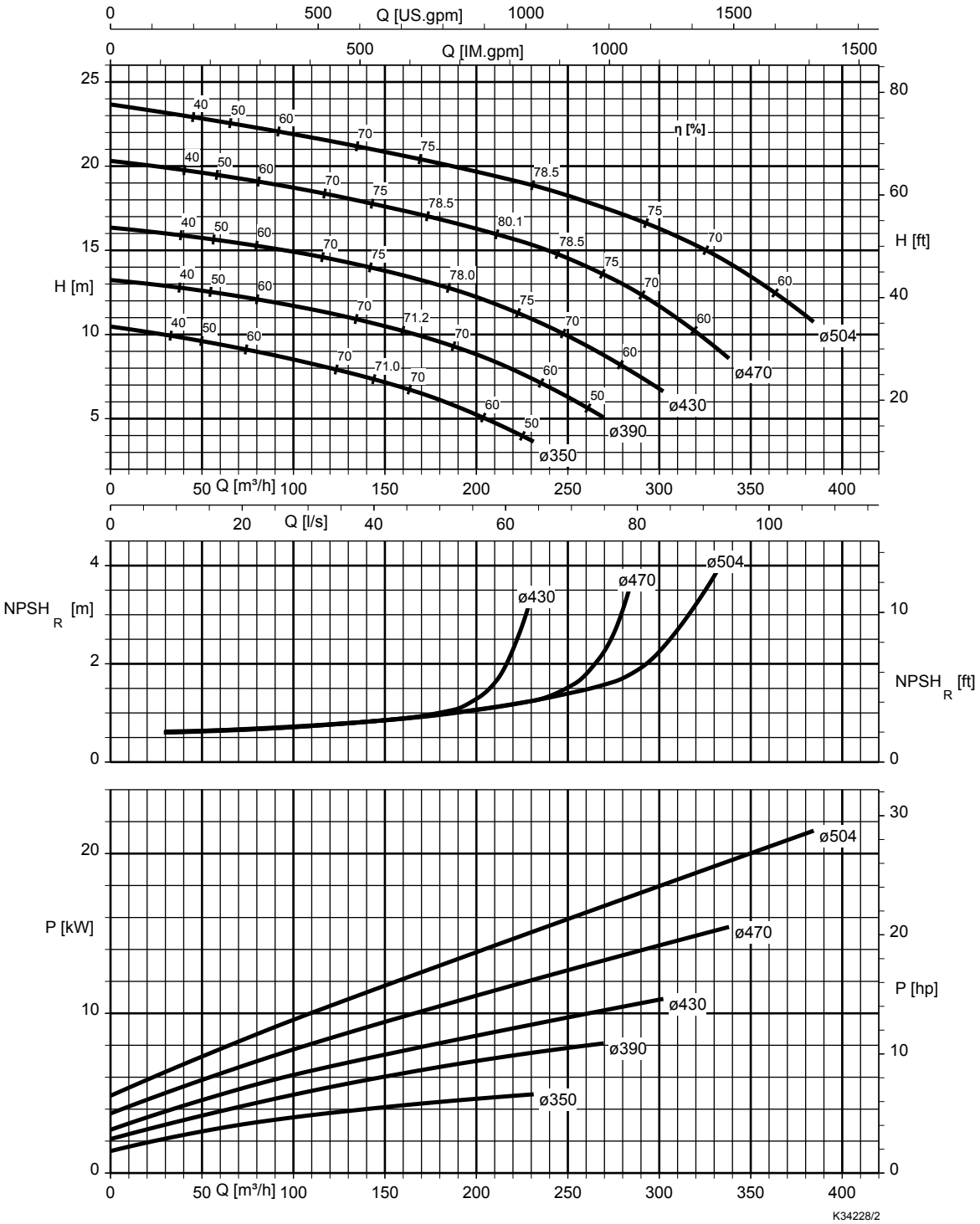


n = 700 min⁻¹

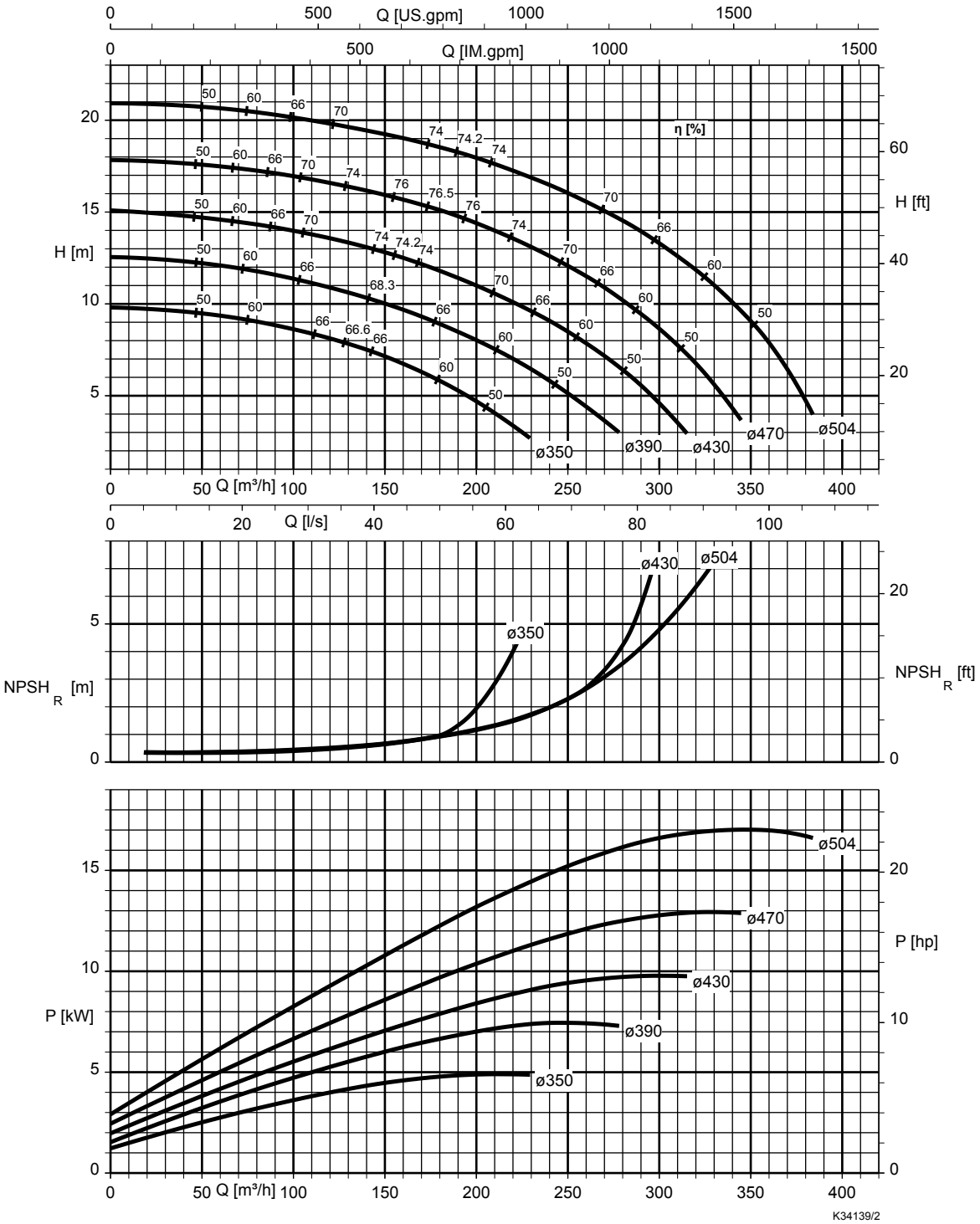
KWP K 125-080-500, n = 700 min⁻¹



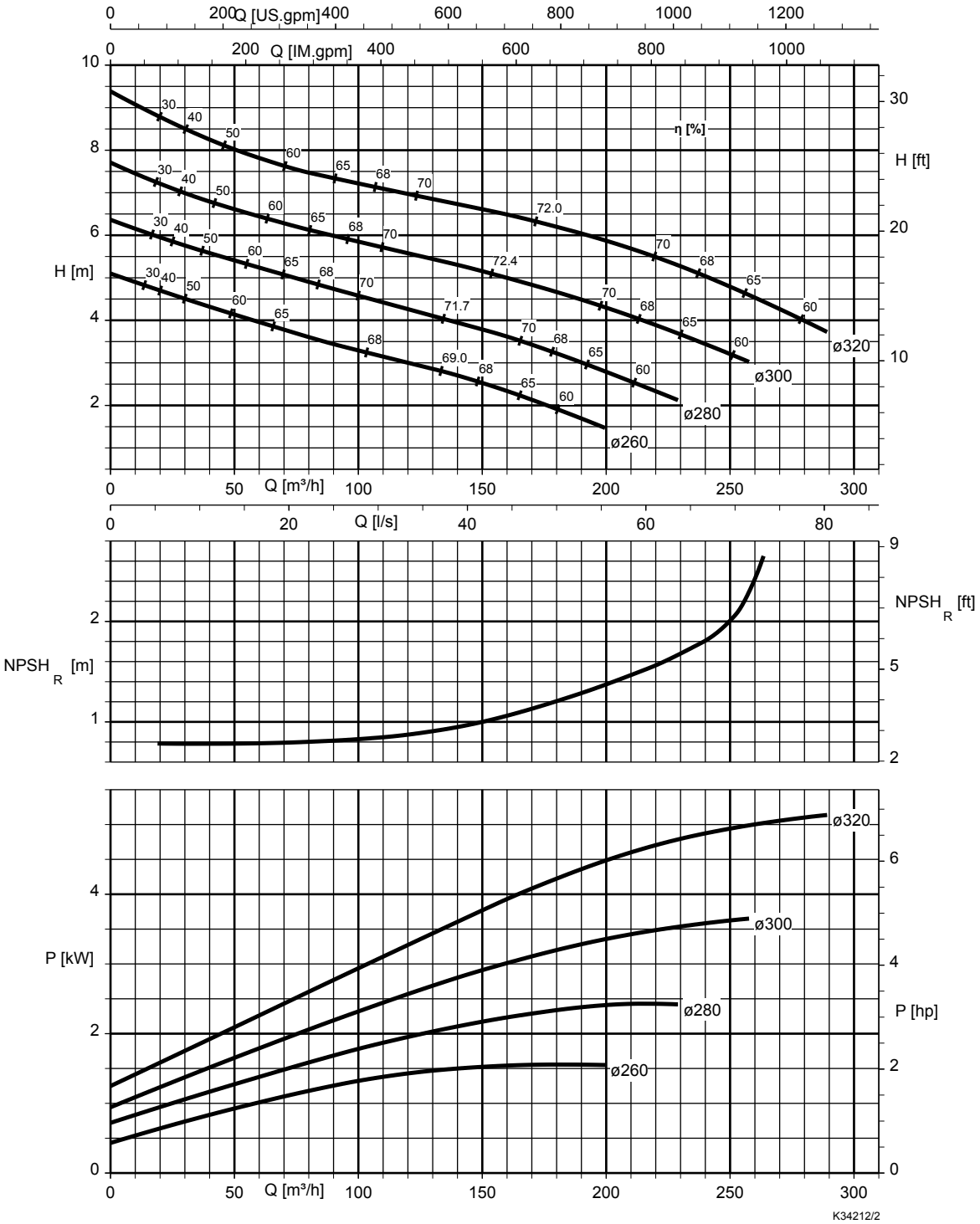
KWP K 150-125-500, n = 700 min⁻¹



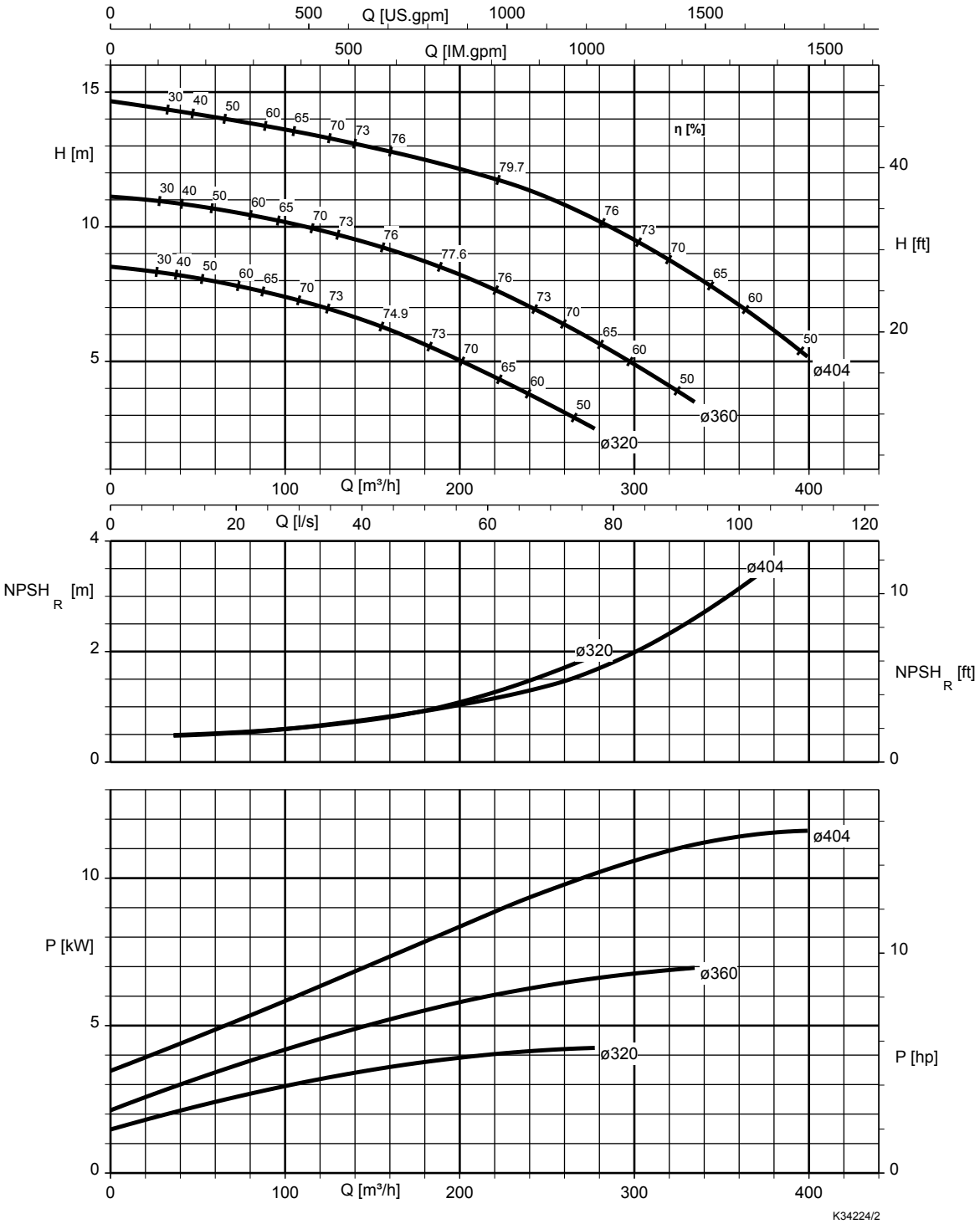
KWP K 150-125-503, n = 700 min⁻¹



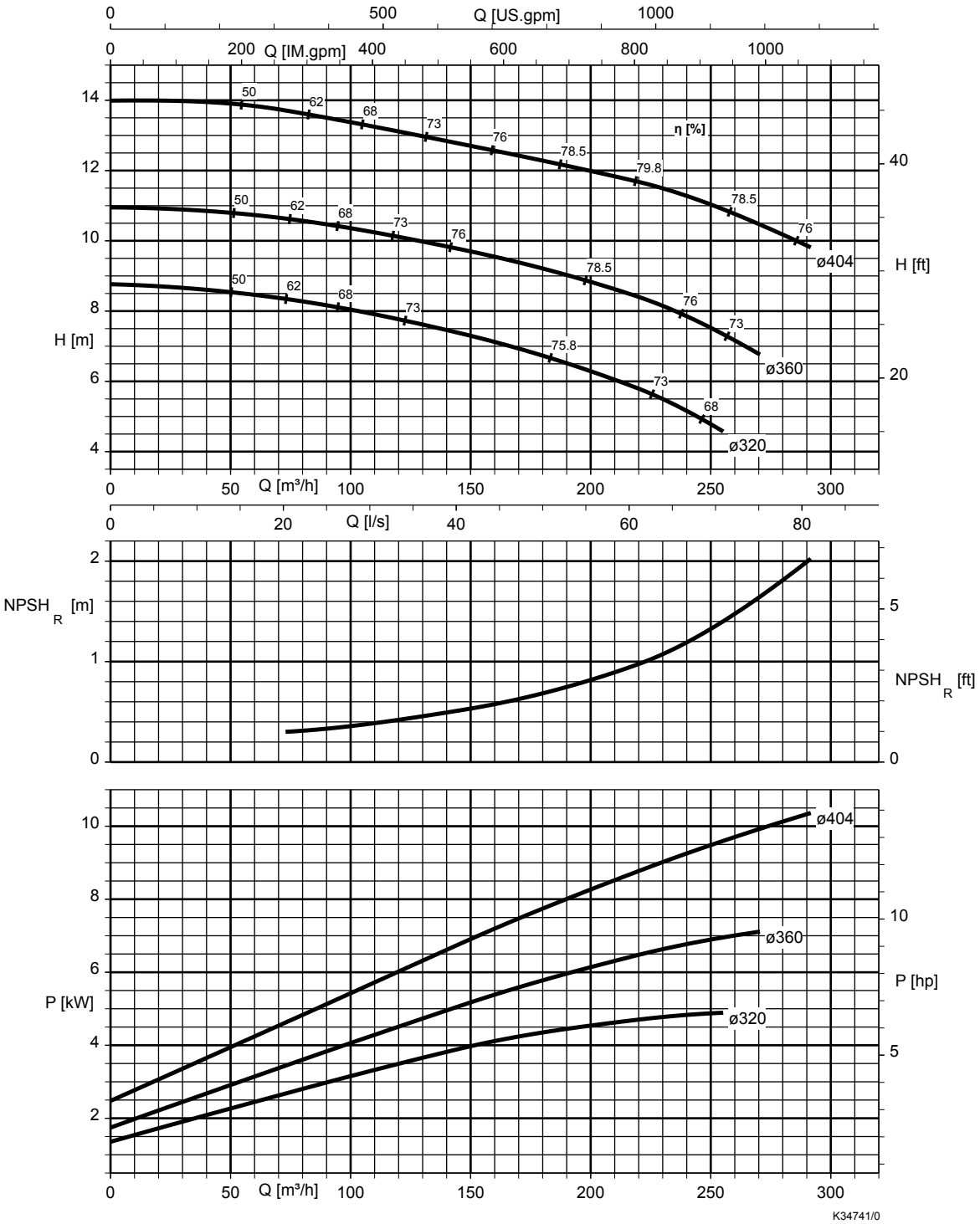
KWP K 150-150-315, n = 700 min⁻¹



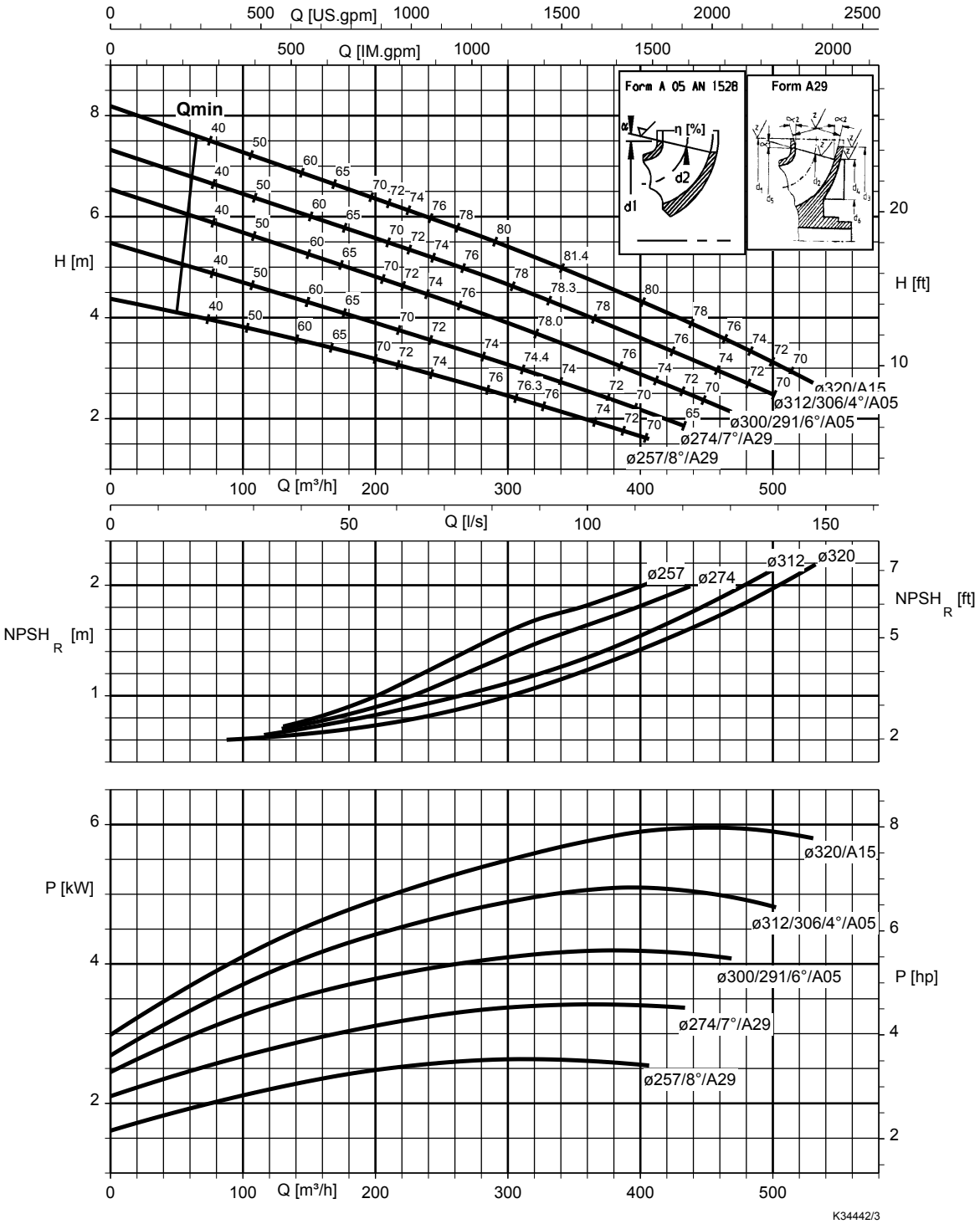
KWP K 150-150-400, n = 700 min⁻¹



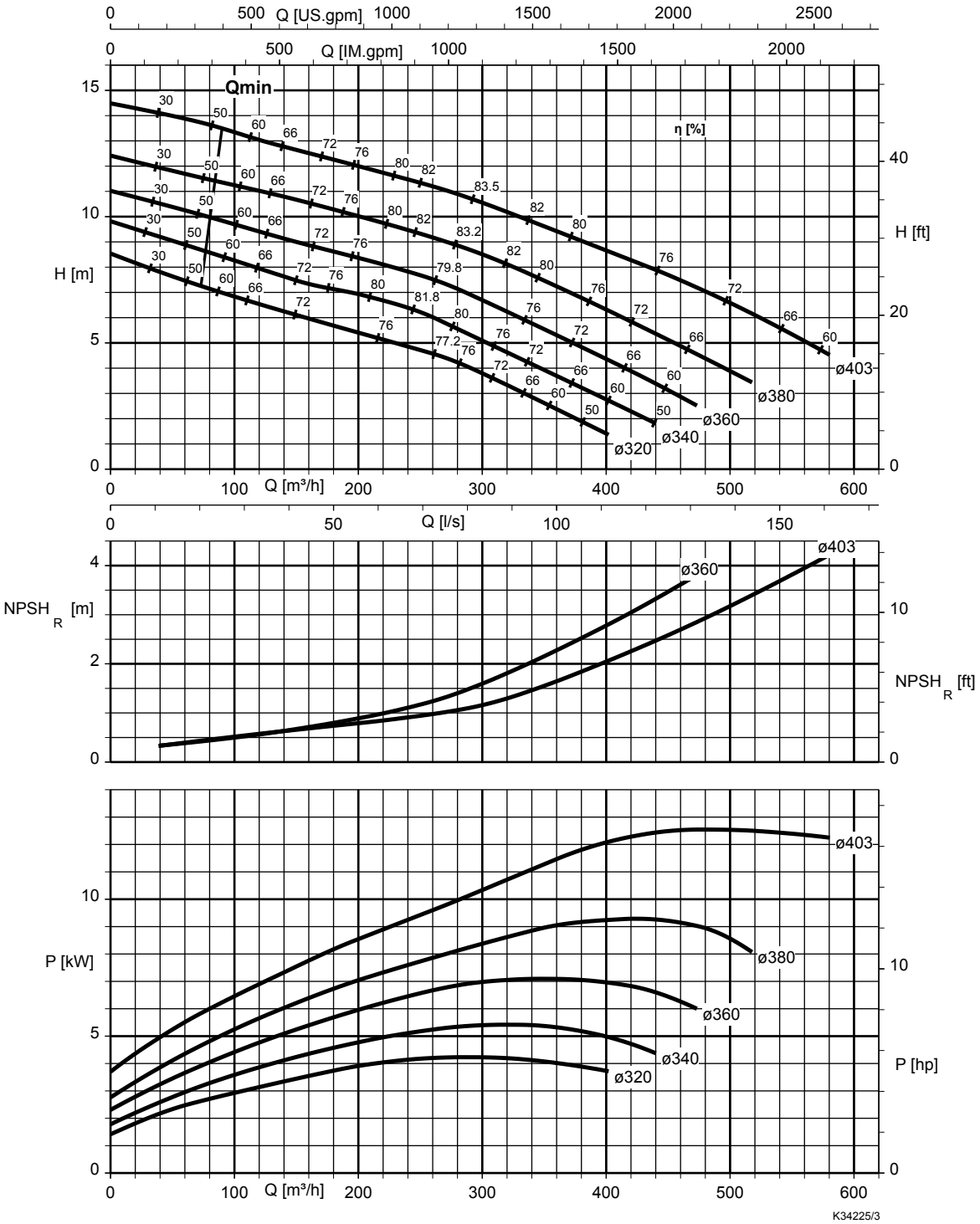
KWP K 150-150-403, n = 700 min⁻¹



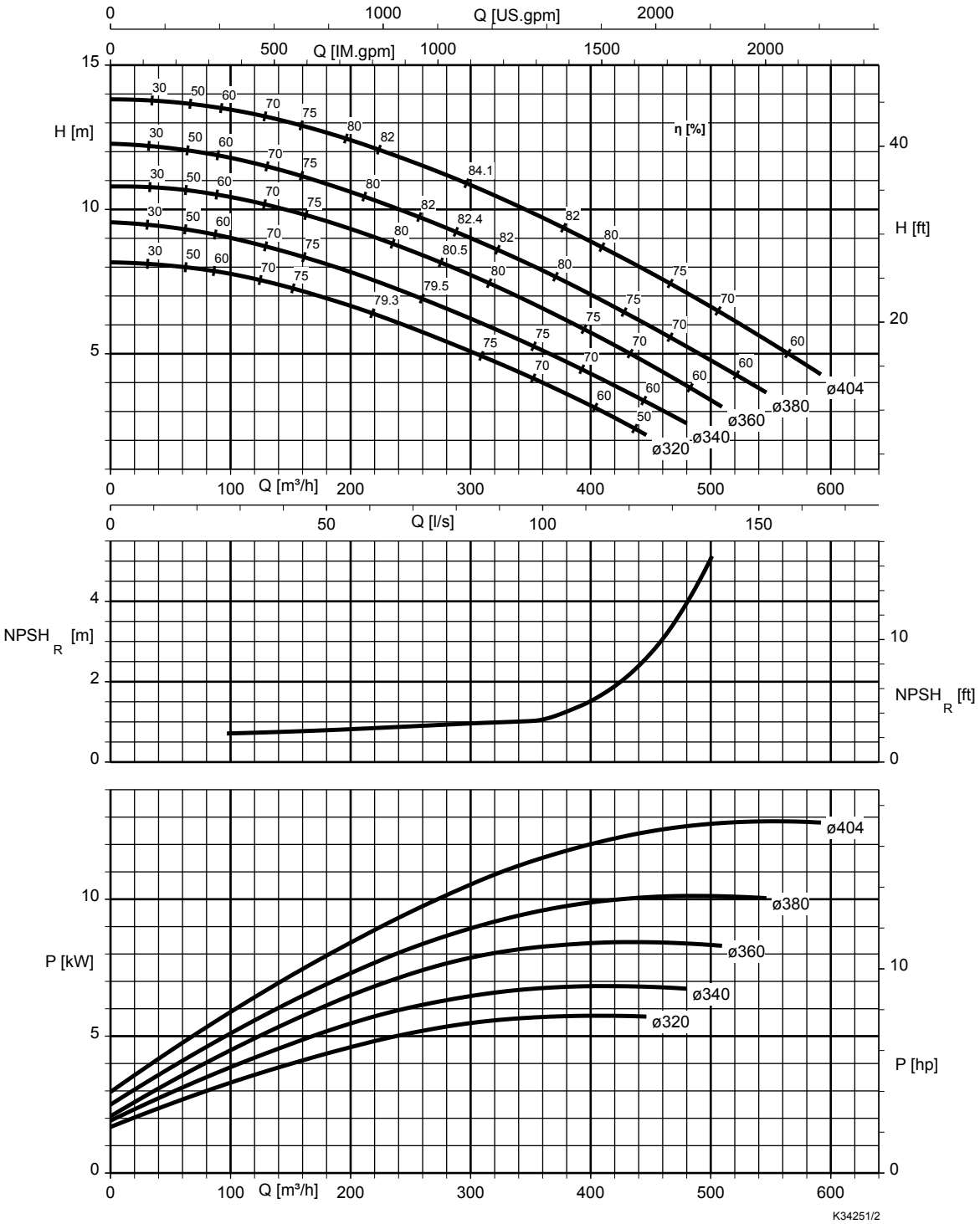
KWP K 200-200-320, n = 700 min⁻¹



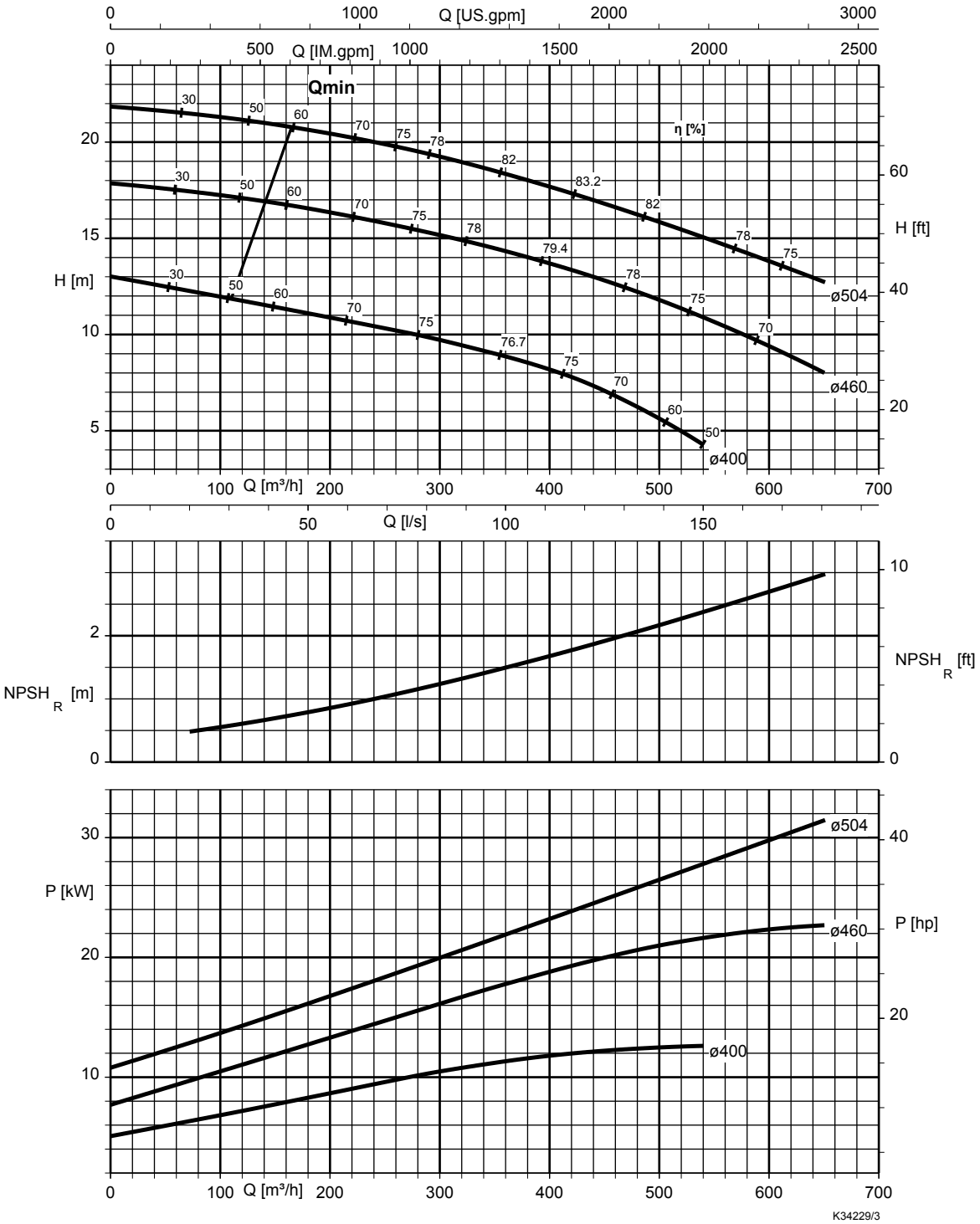
KWP K 200-200-400, n = 700 min⁻¹



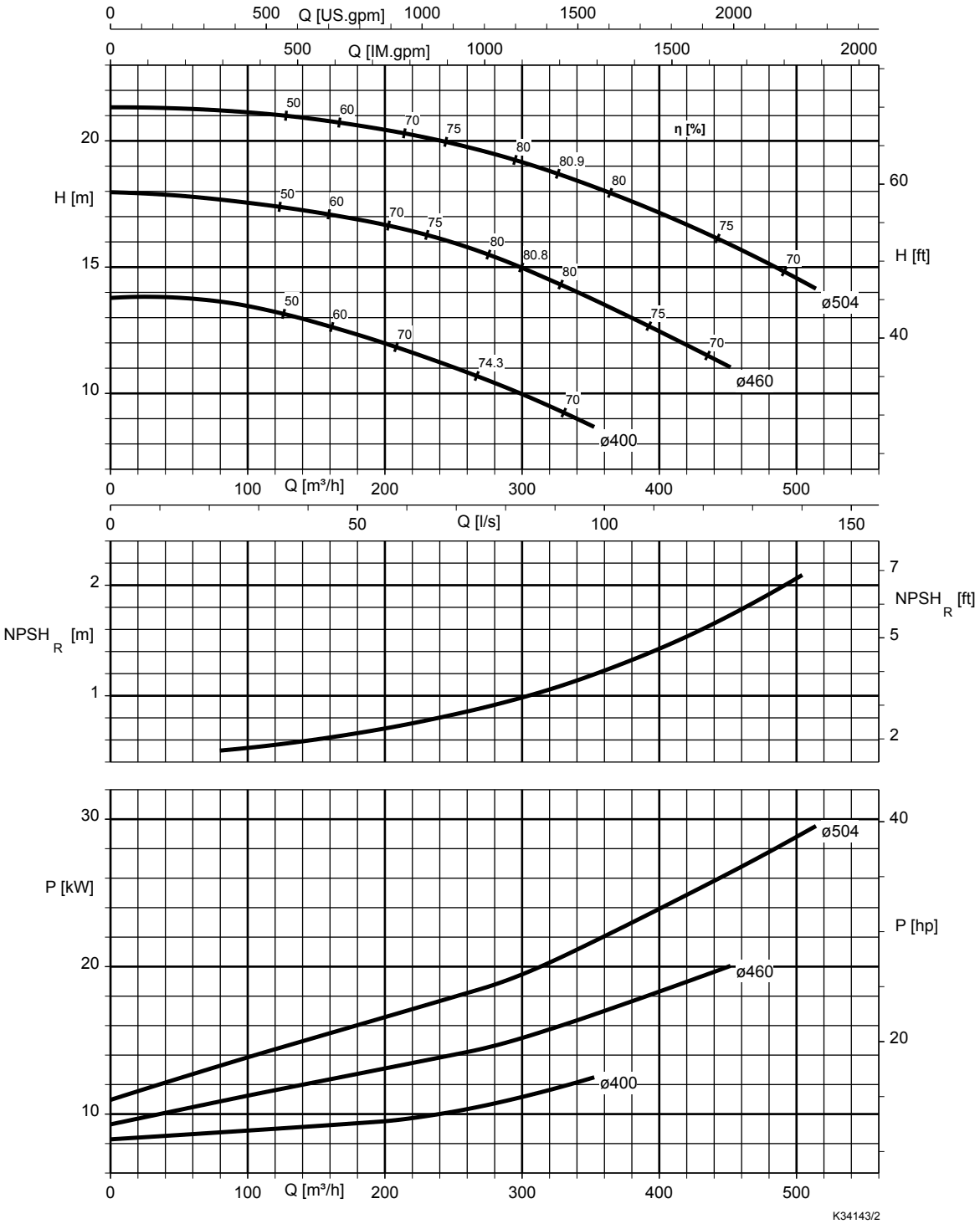
KWP K 200-200-403, n = 700 min⁻¹



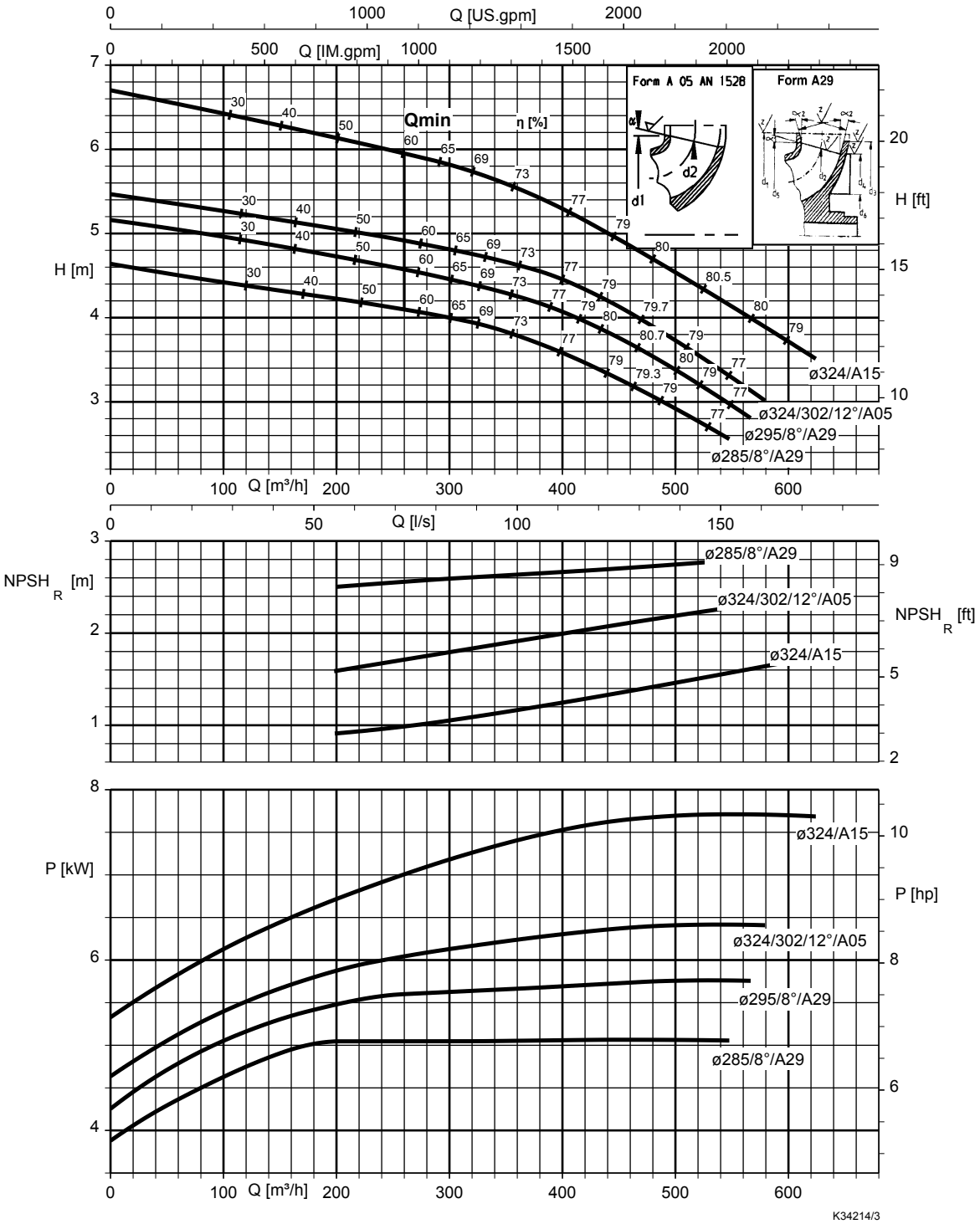
KWP K 200-200-501, n = 700 min⁻¹



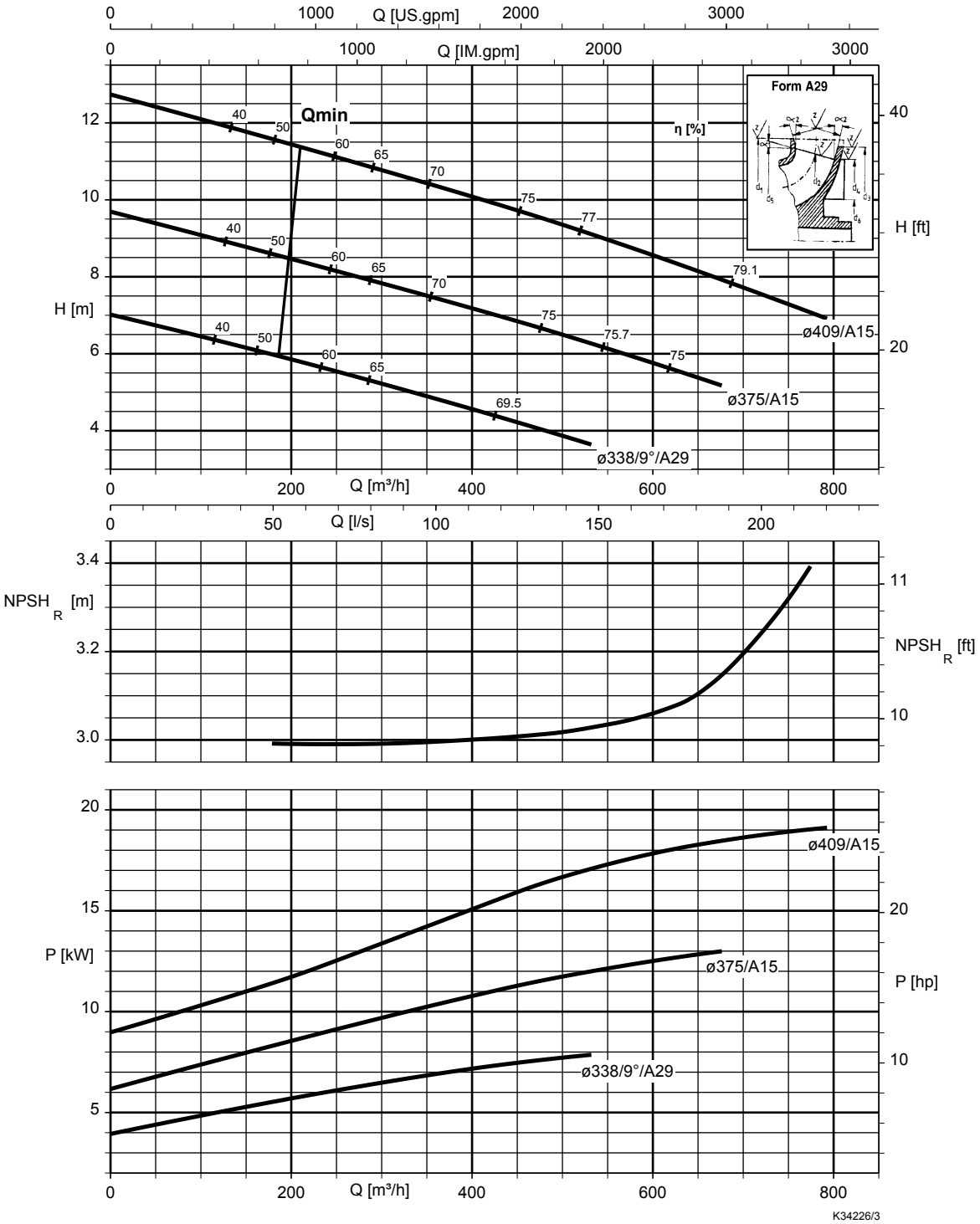
KWP K 200-200-503, n = 700 min⁻¹



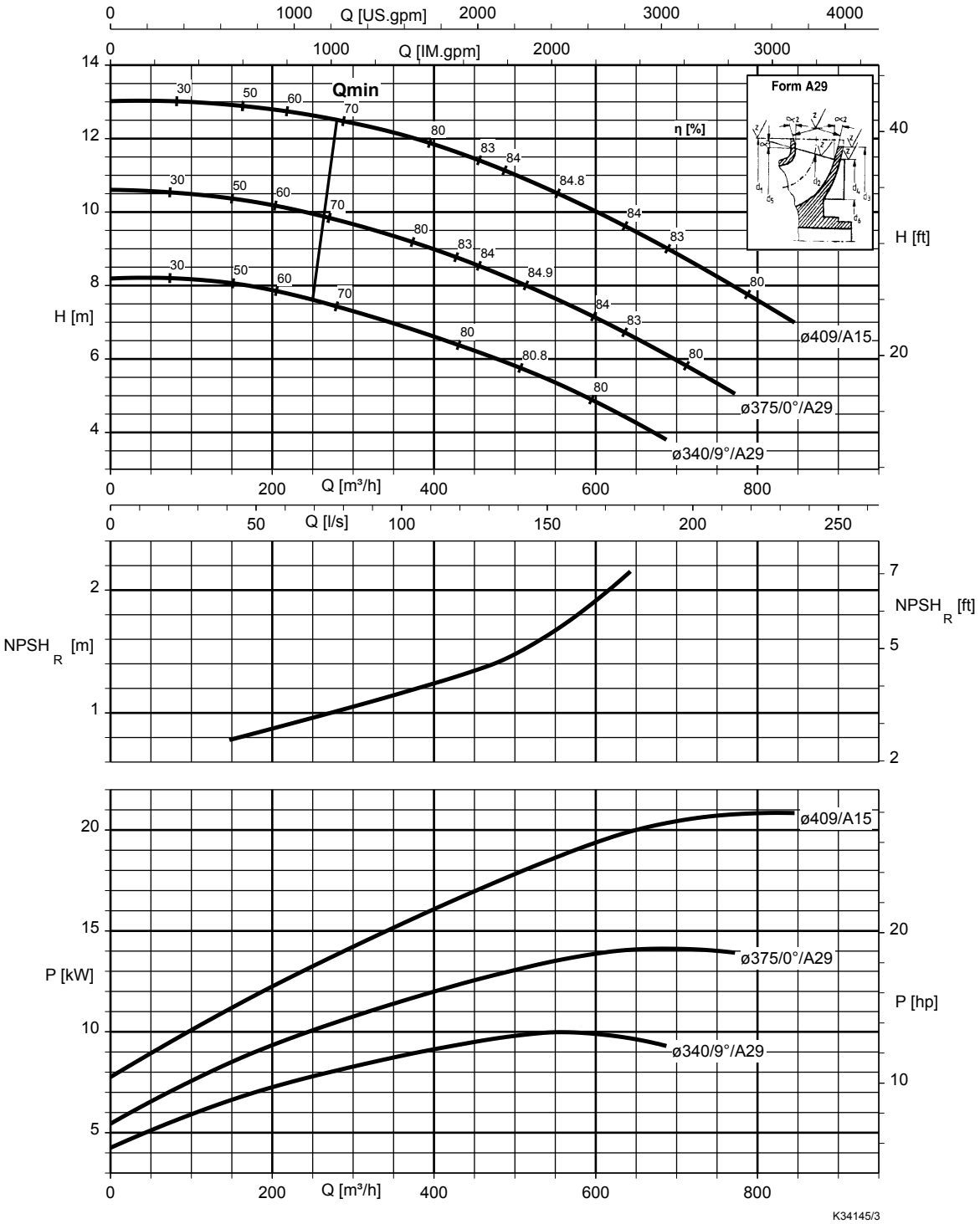
KWP K 250-250-315, n = 700 min⁻¹



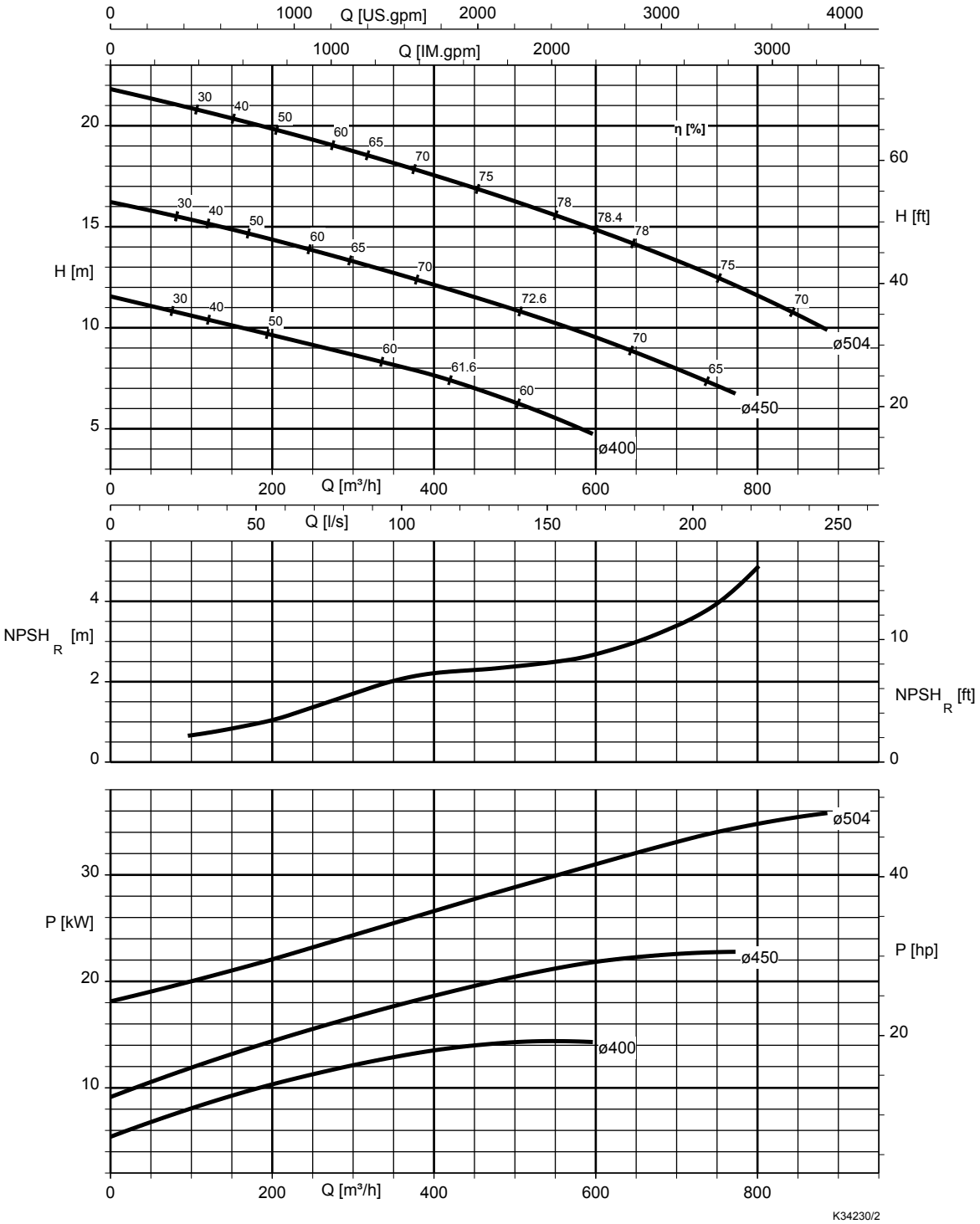
KWP K 250-250-400, n = 700 min⁻¹



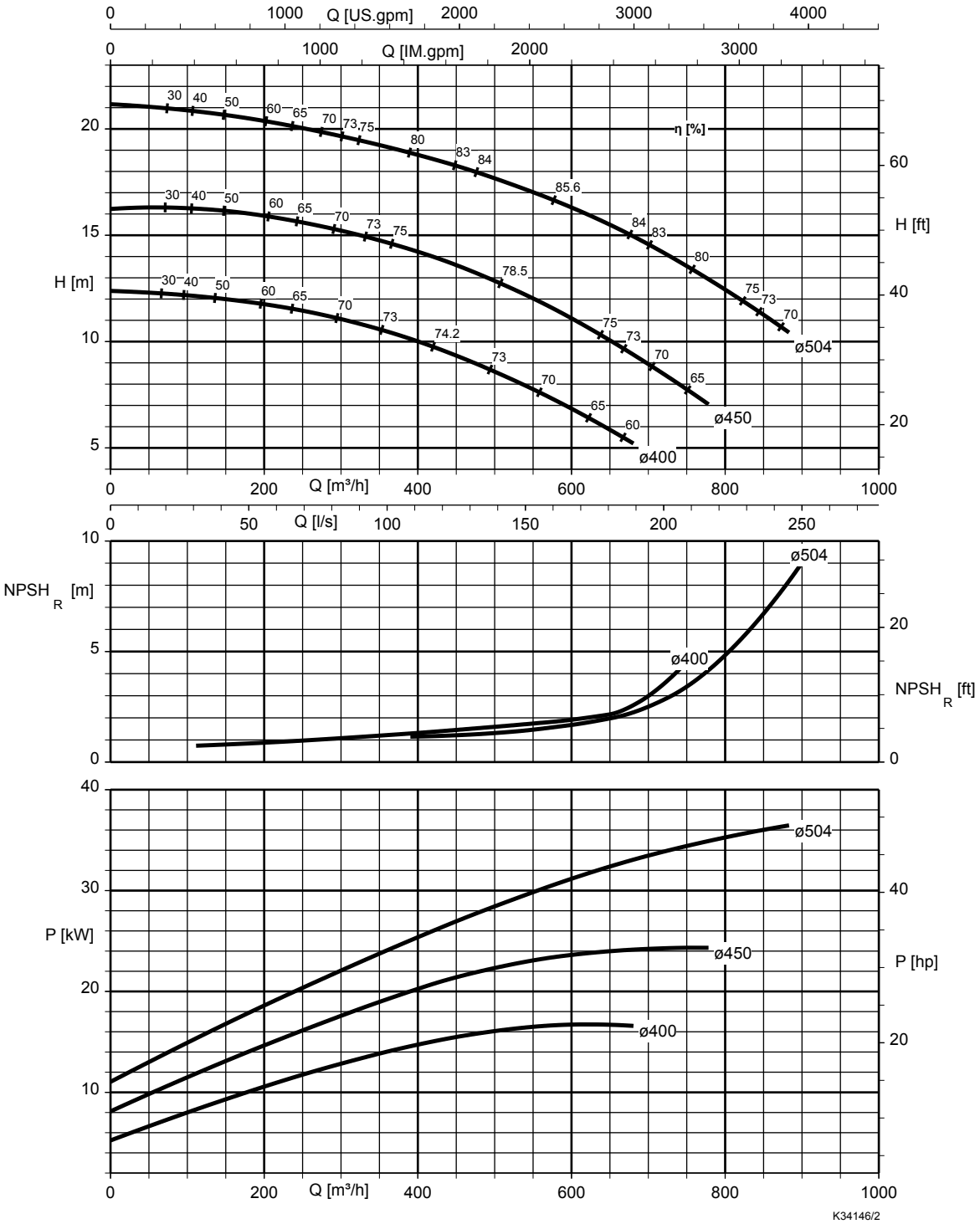
KWP K 250-250-403, n = 700 min⁻¹



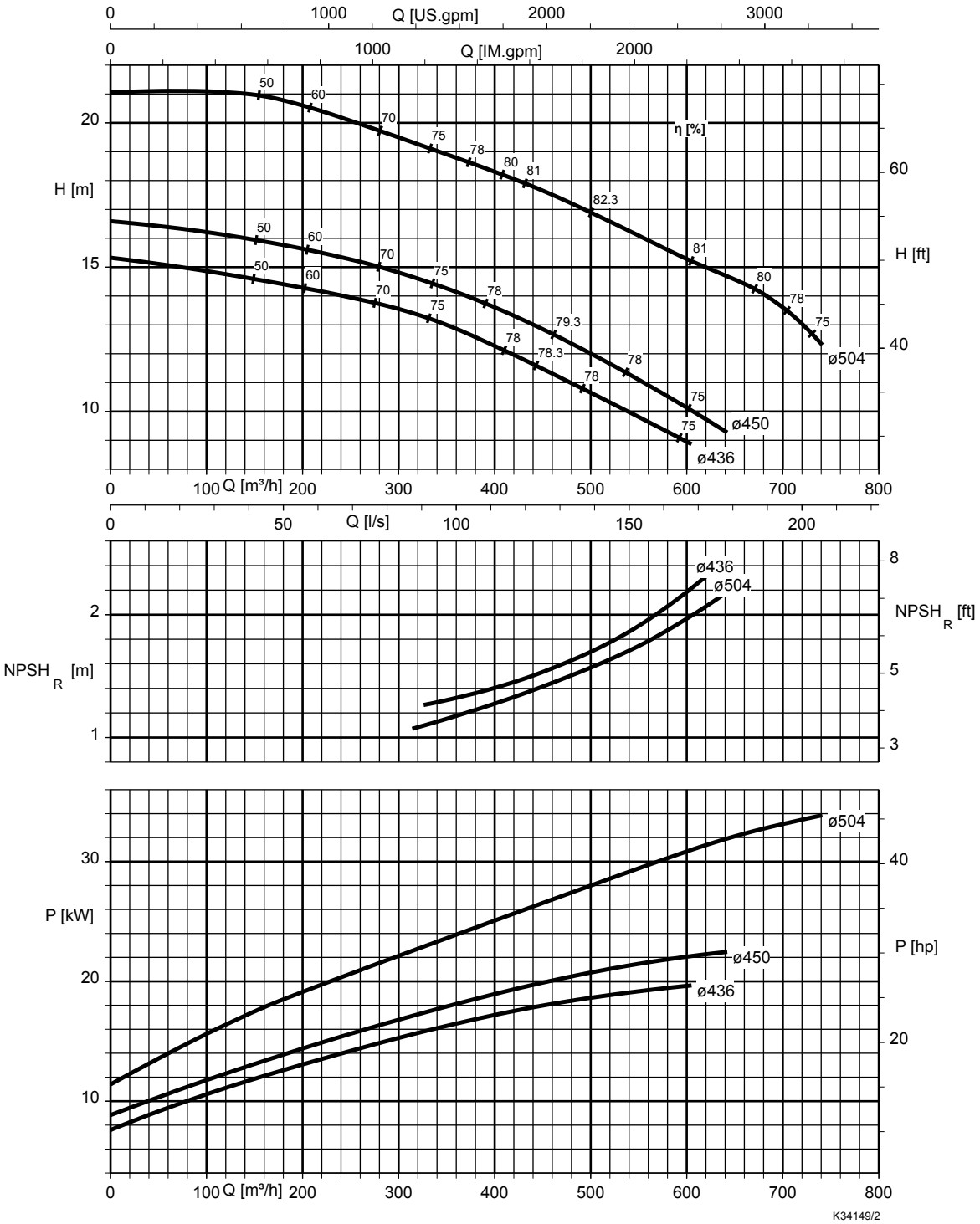
KWP K 250-250-500, n = 700 min⁻¹



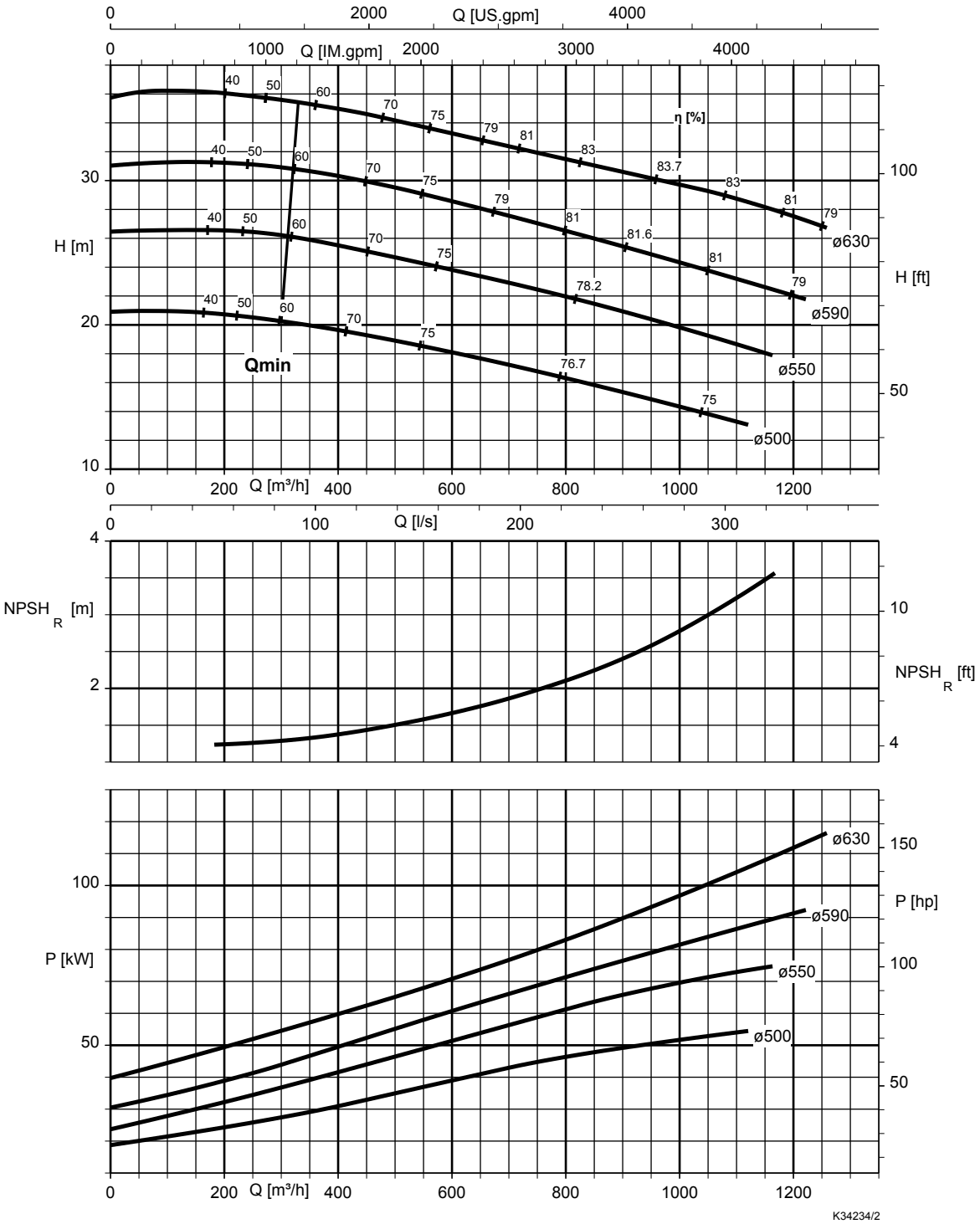
KWP K 250-250-503, n = 700 min⁻¹



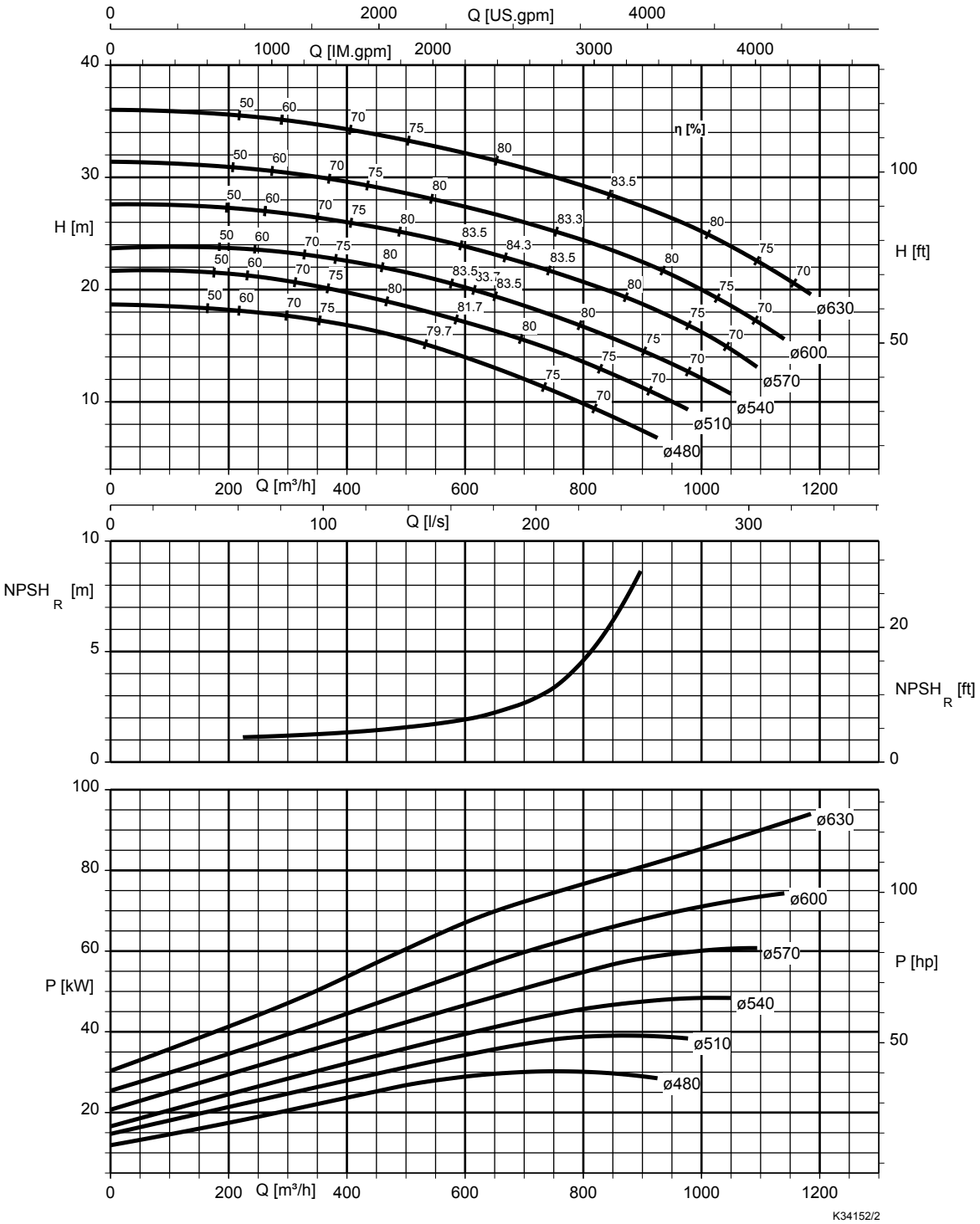
KWP K 250-250-505, n = 700 min⁻¹



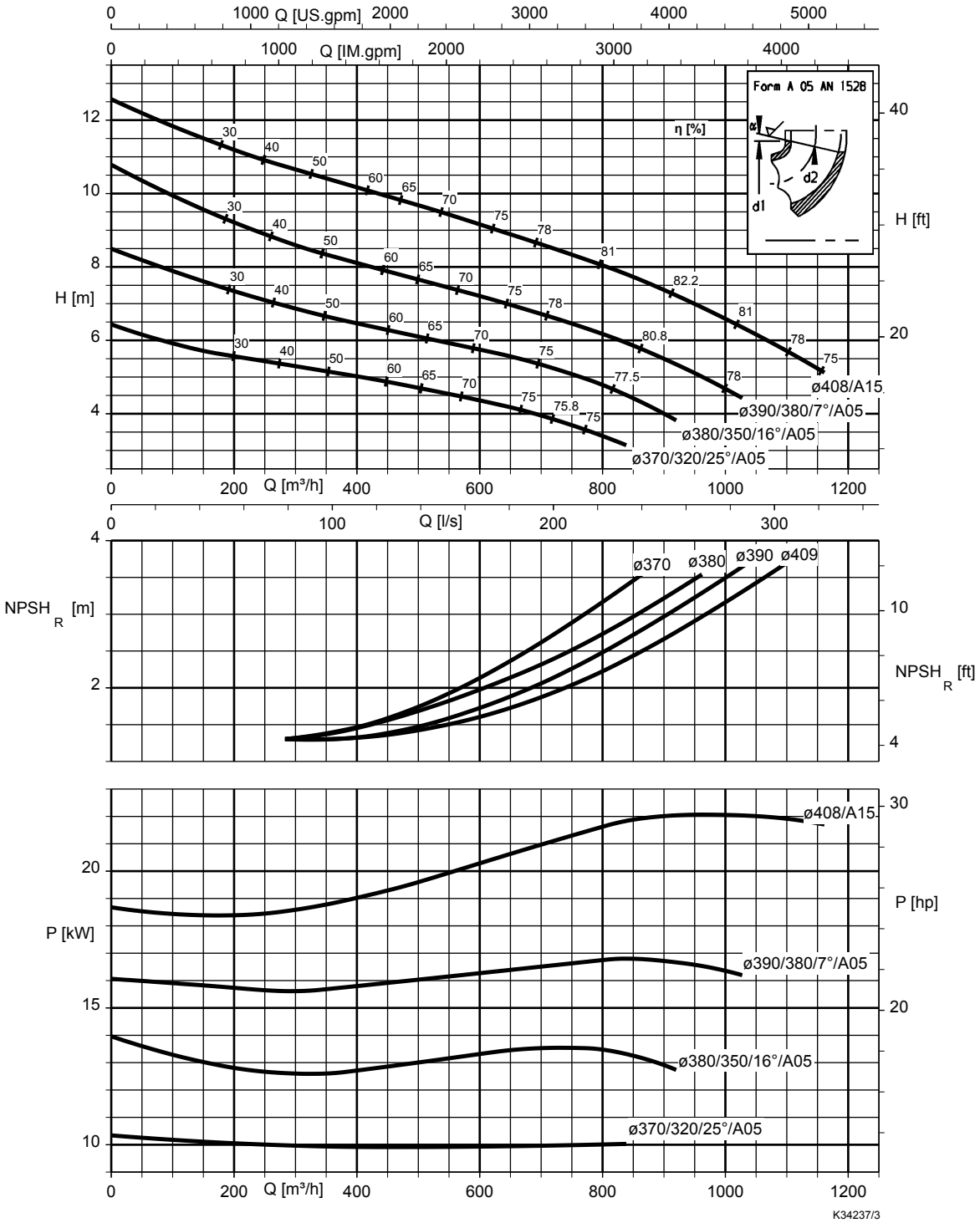
KWP K 250-250-630, n = 700 min⁻¹



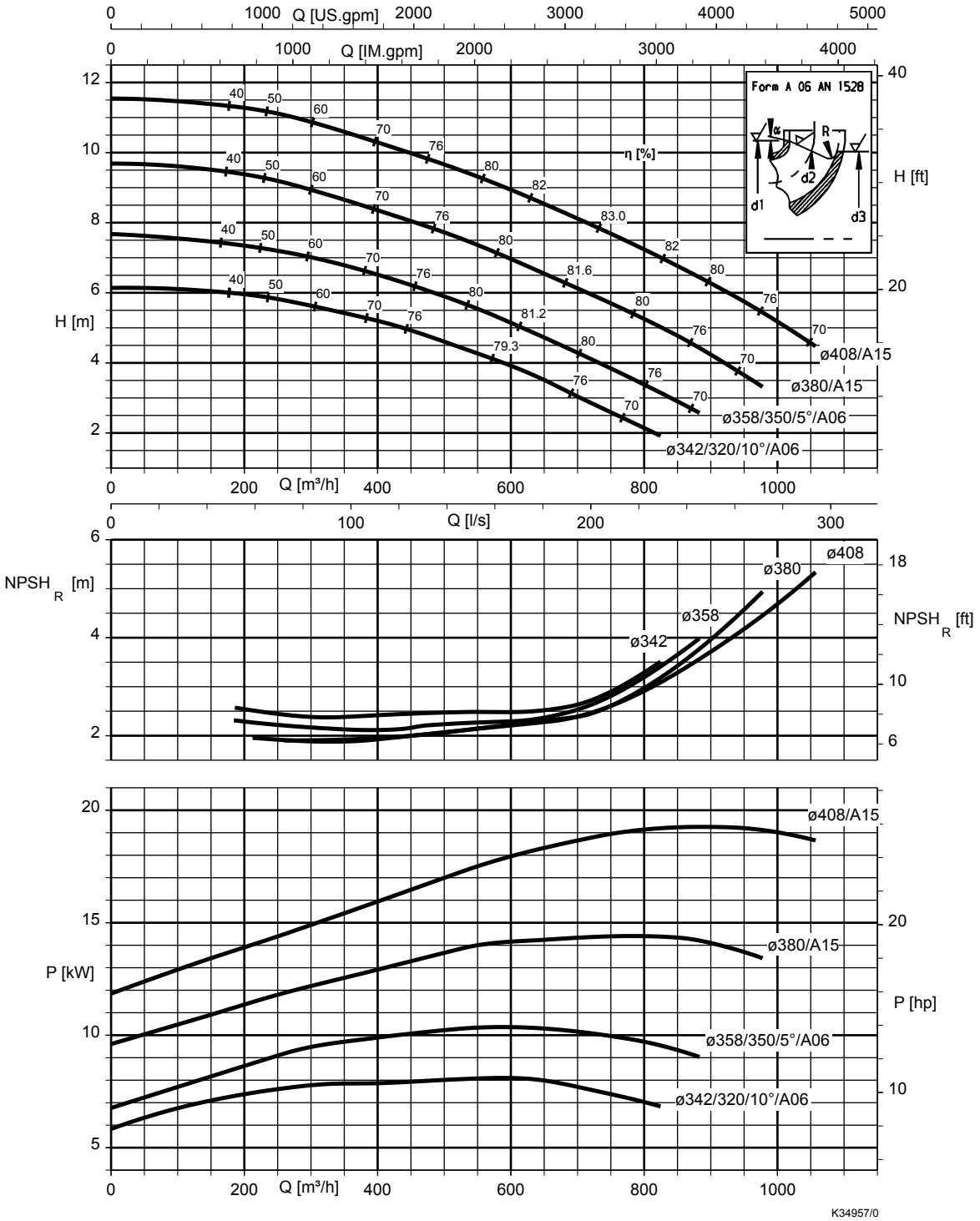
KWP K 250-250-634, n = 700 min⁻¹



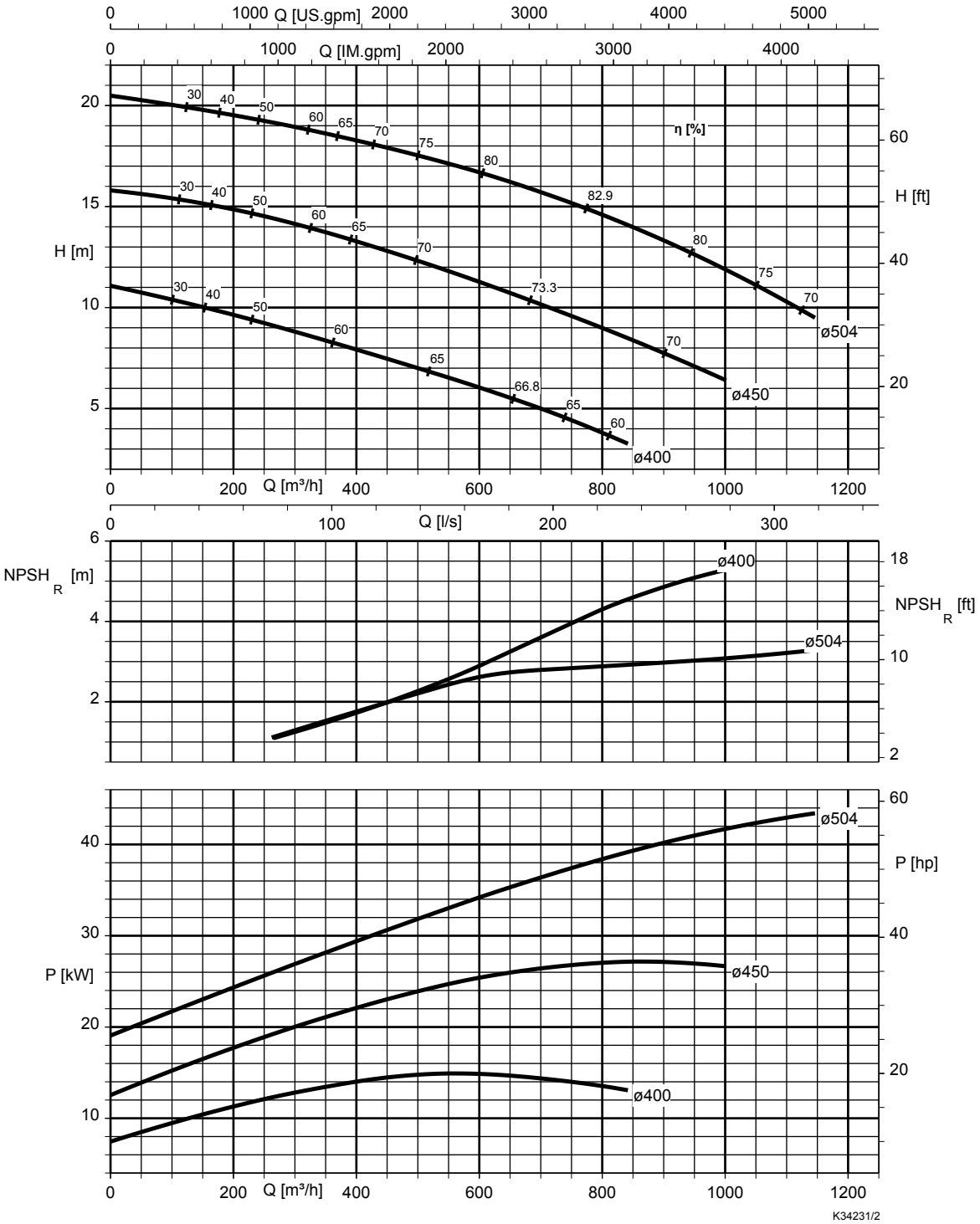
KWP K 300-300-400, n = 700 min⁻¹



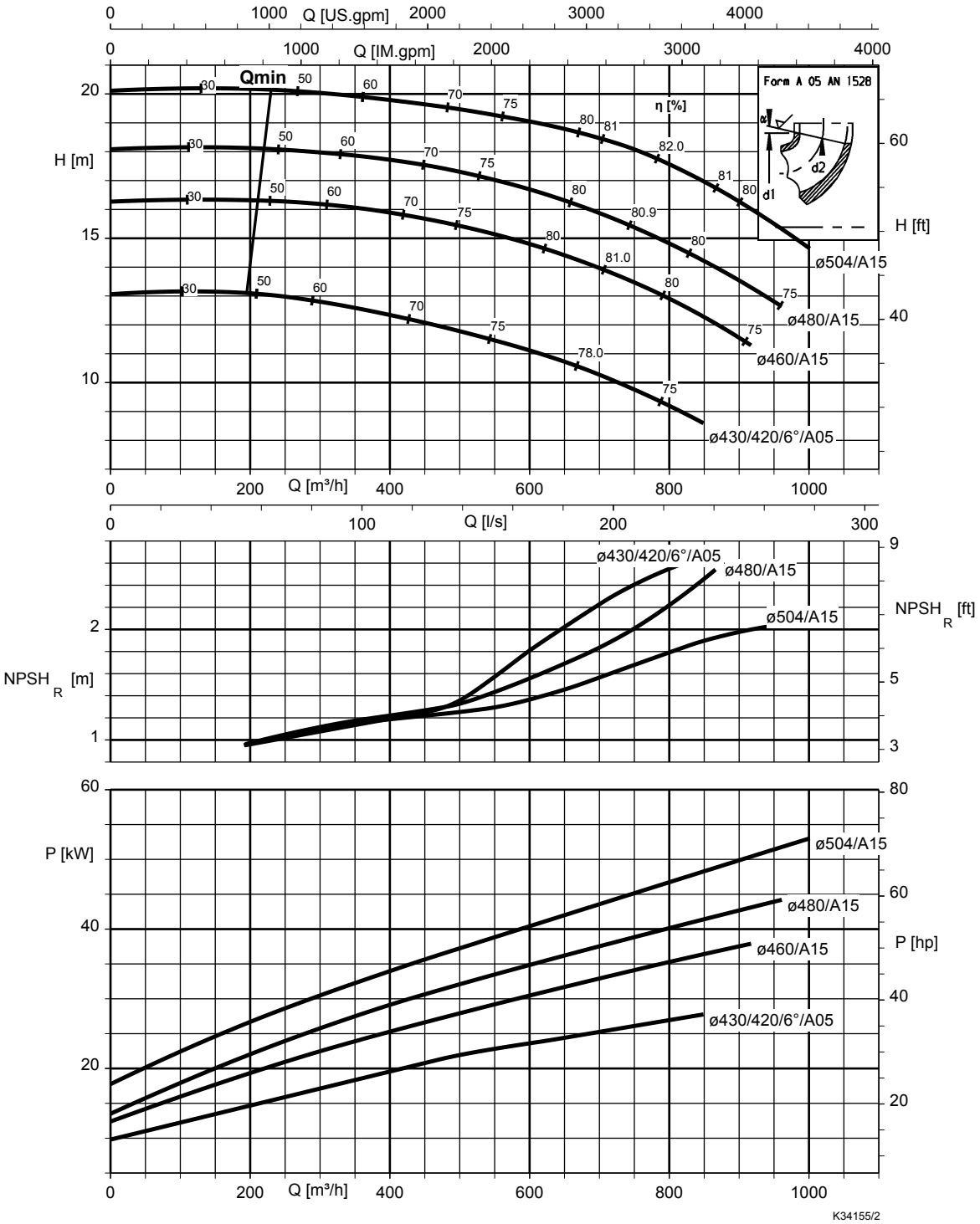
KWP K 300-300-401, n = 700 min⁻¹



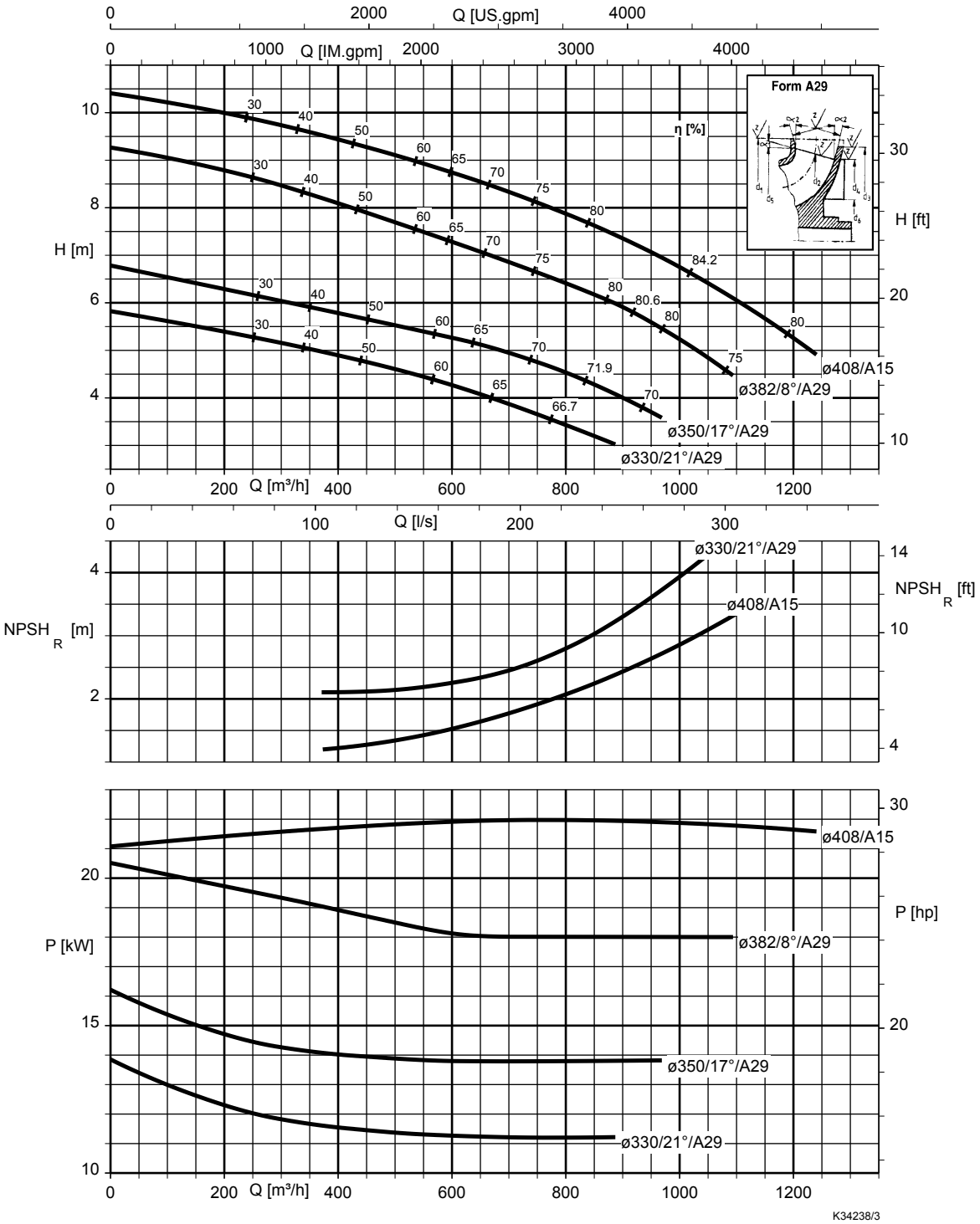
KWP K 300-300-500, n = 700 min⁻¹



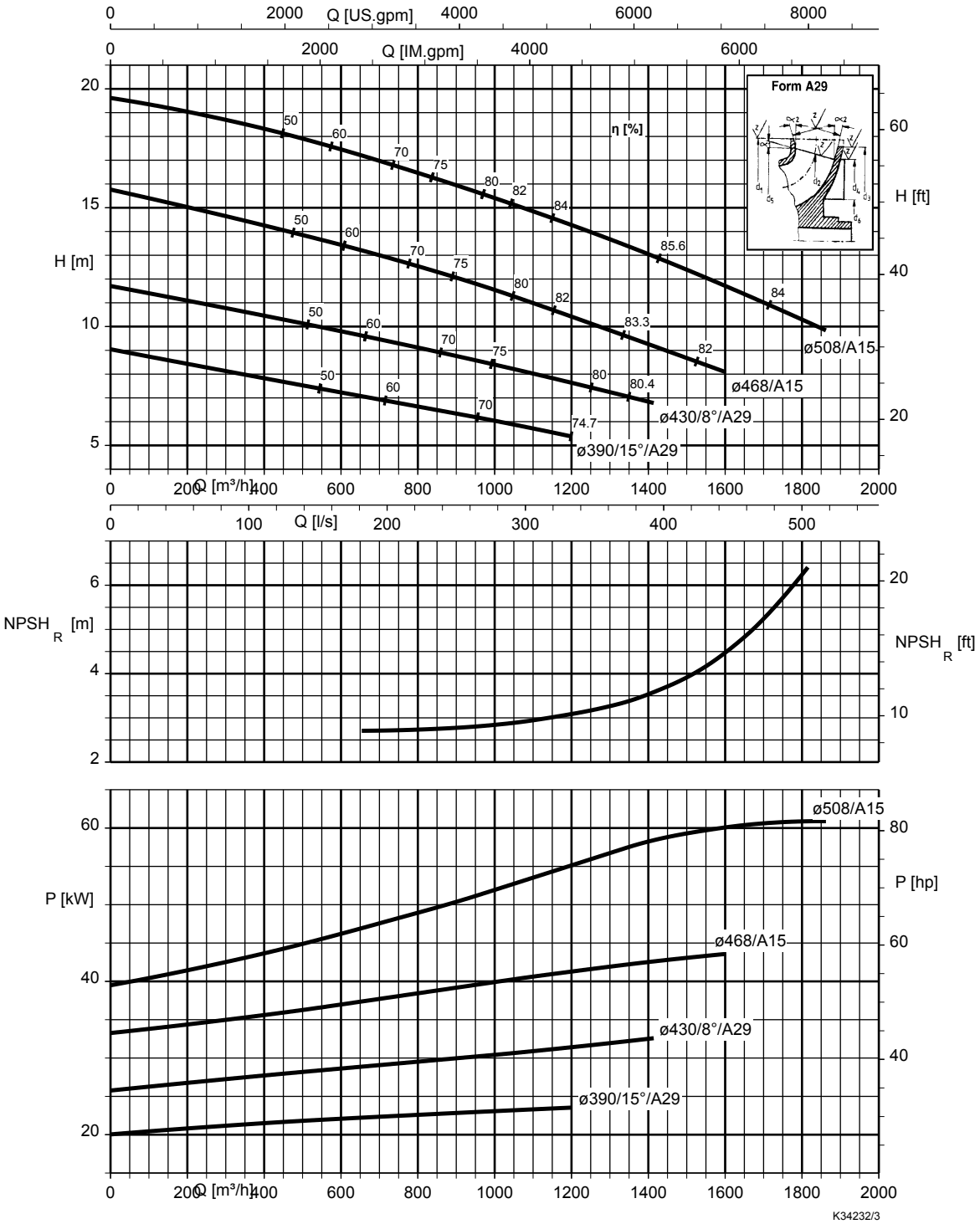
KWP K 300-300-503, n = 700 min⁻¹



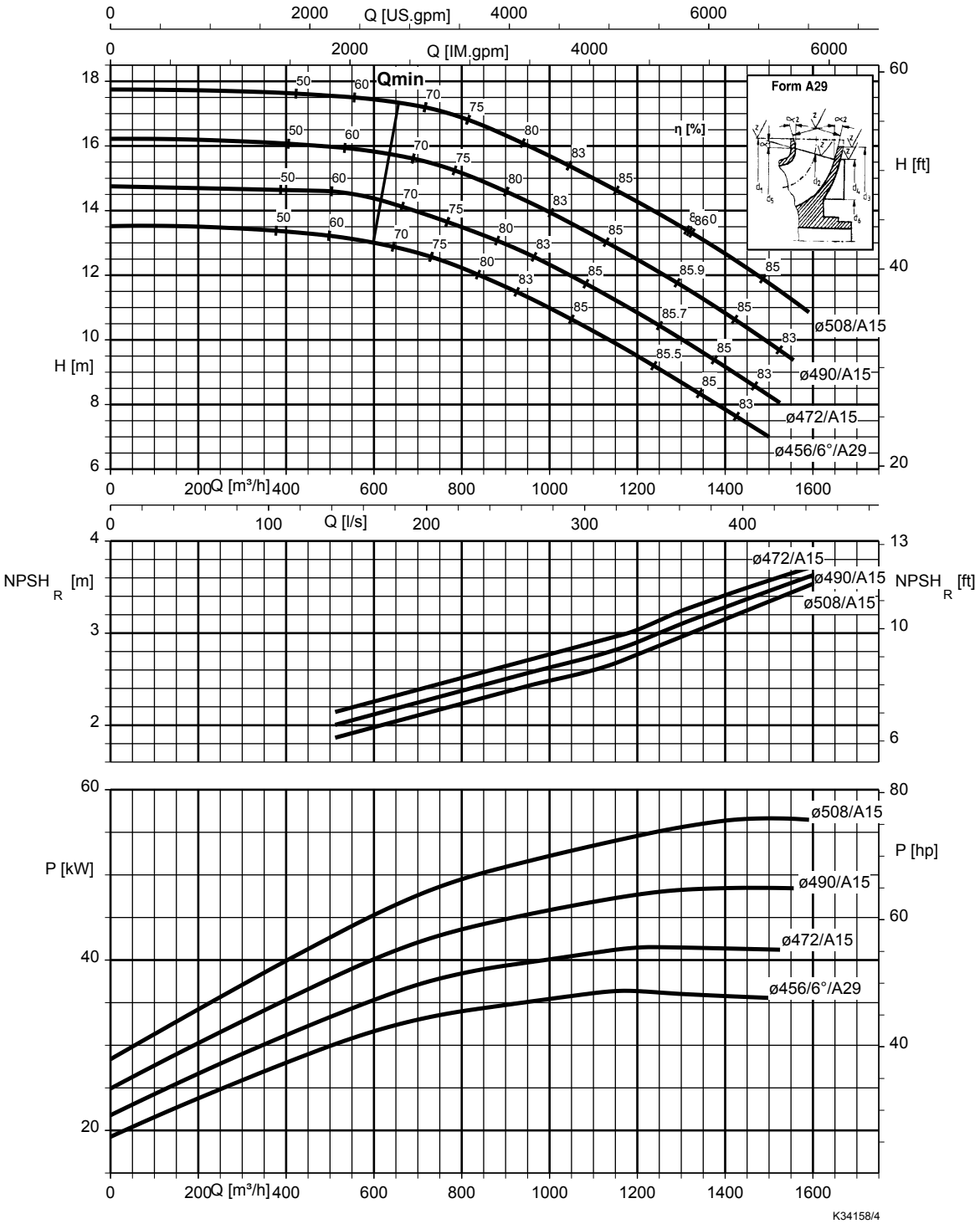
KWP K 350-350-400, n = 700 min⁻¹



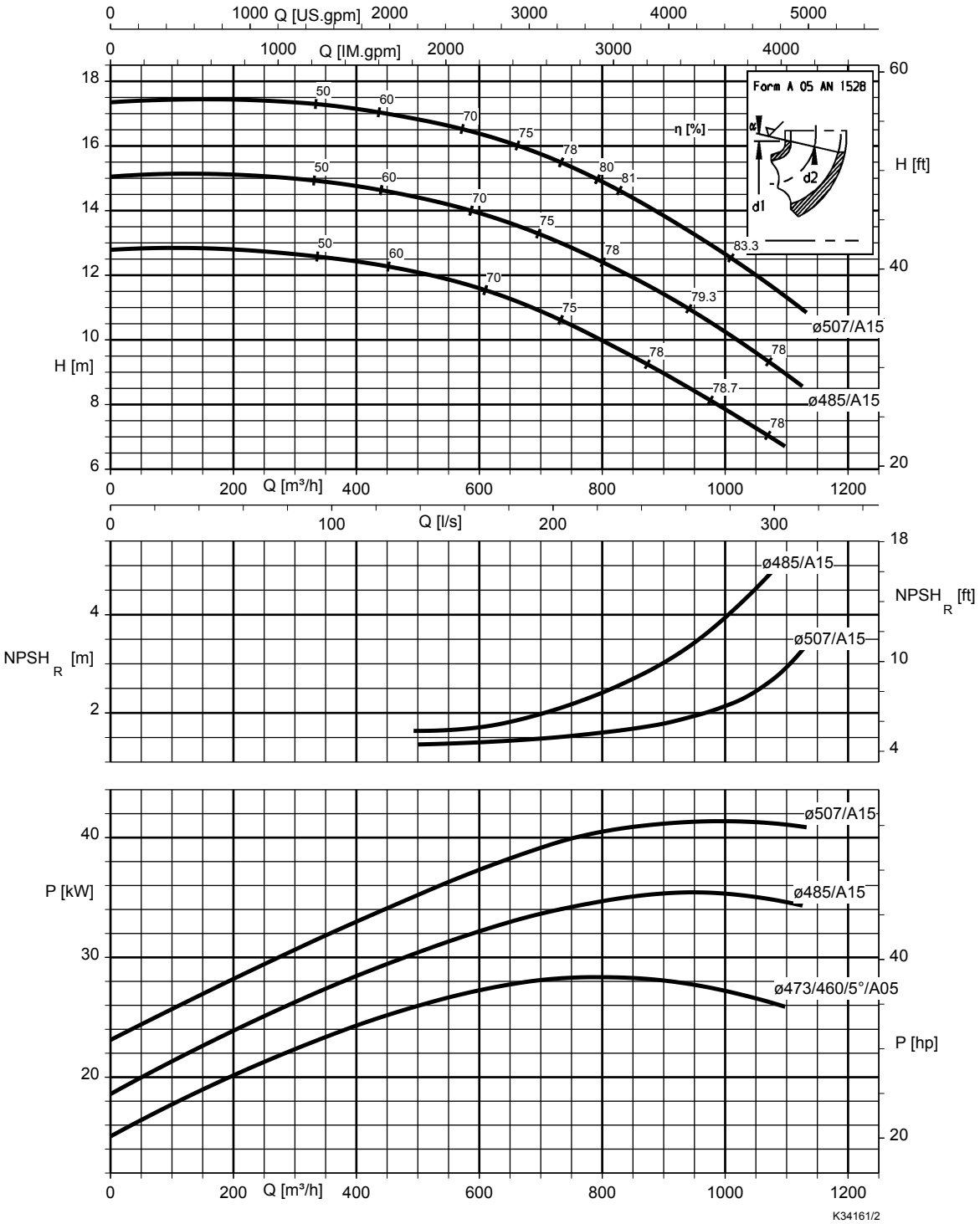
KWP K 350-350-500, n = 700 min⁻¹



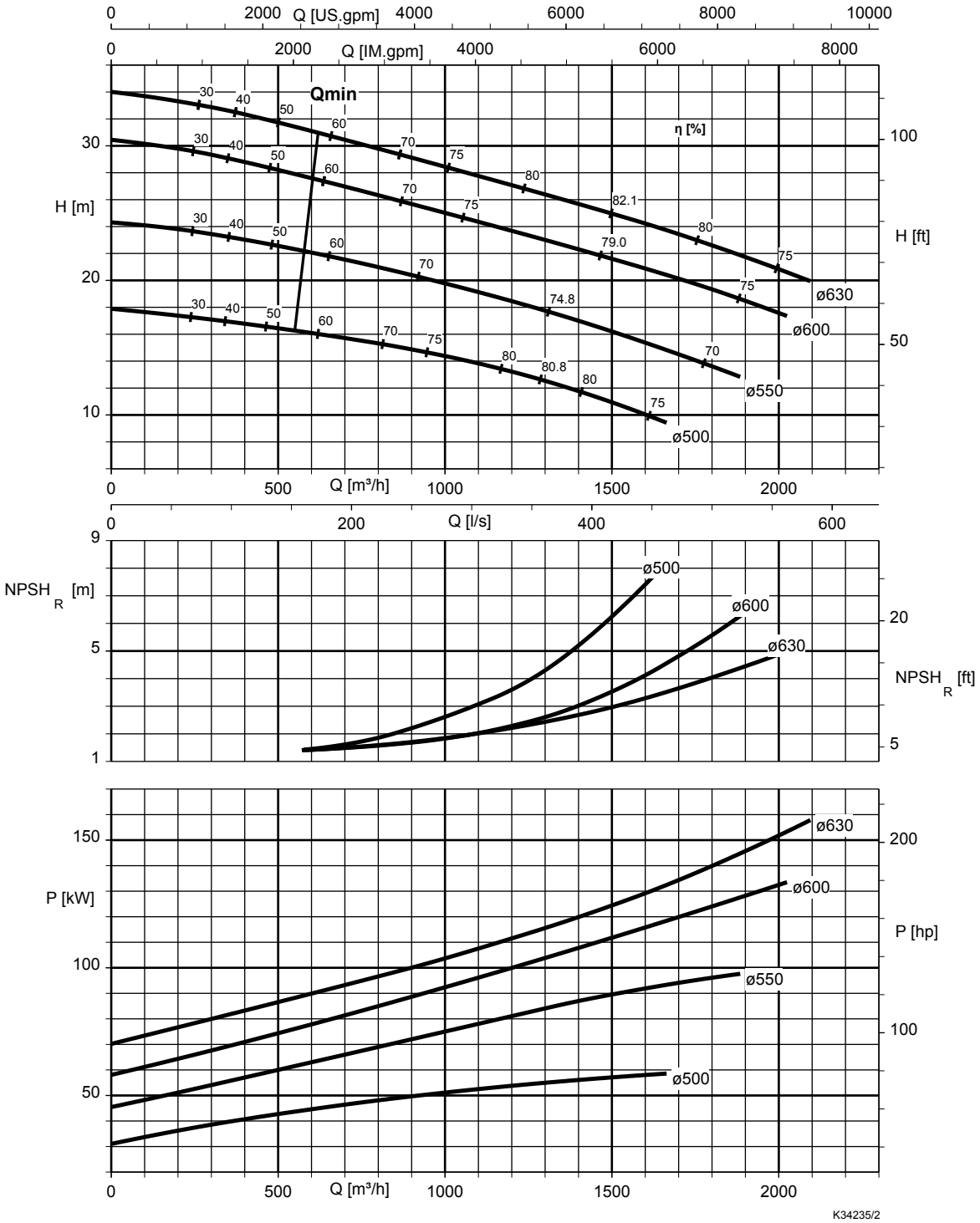
KWP K 350-350-503, n = 700 min⁻¹



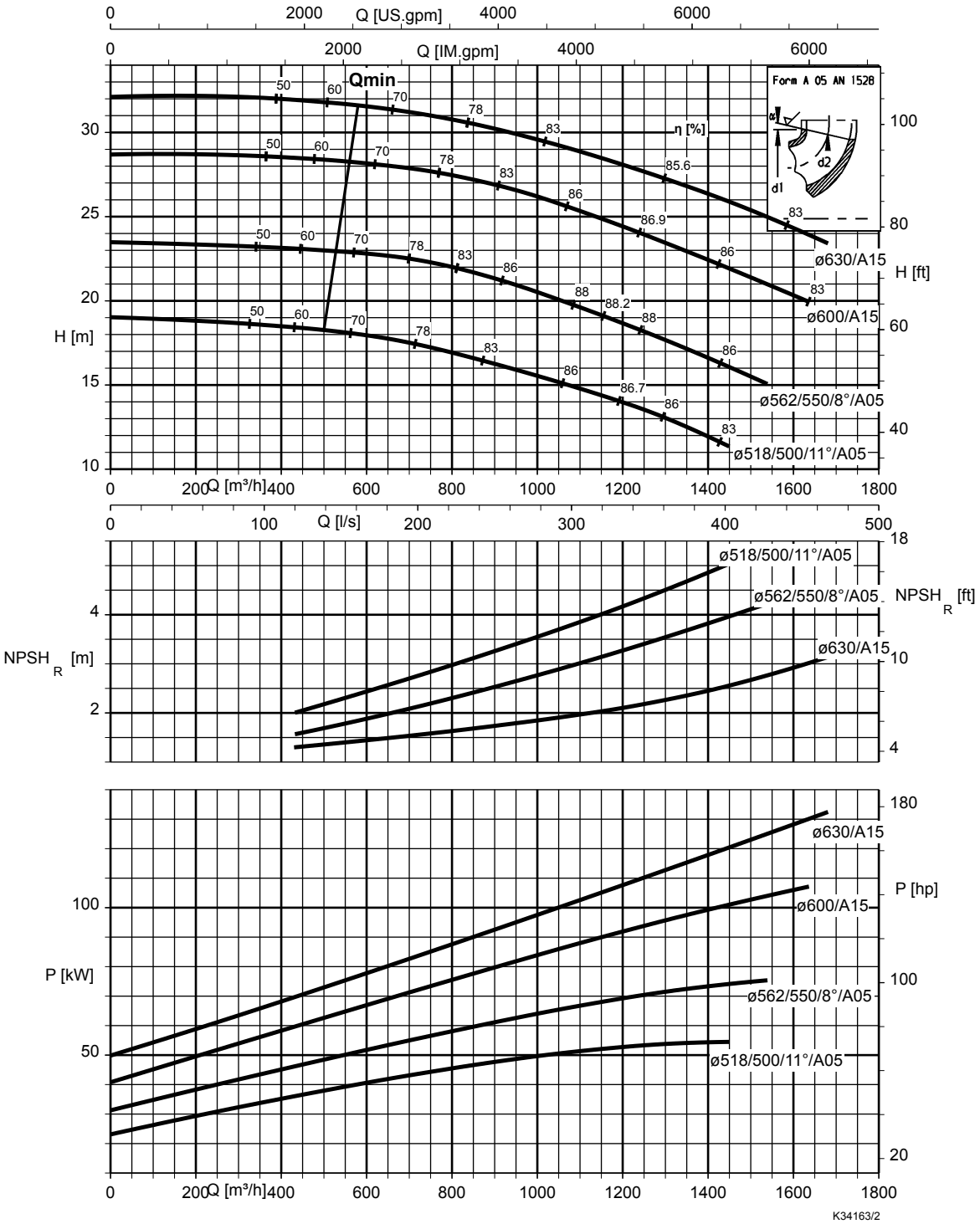
KWP K 350-350-504, n = 700 min⁻¹



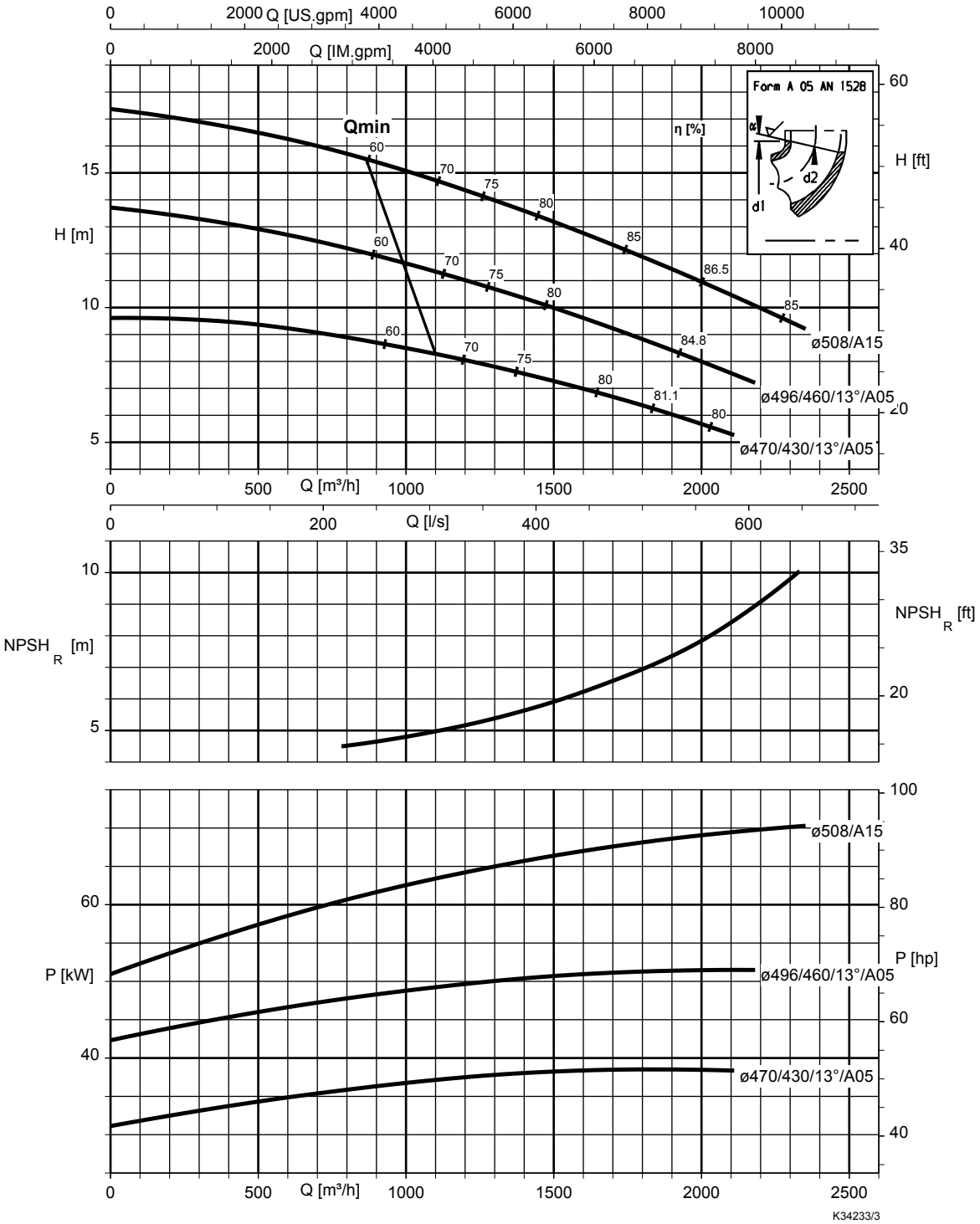
KWP K 350-350-630, n = 700 min⁻¹



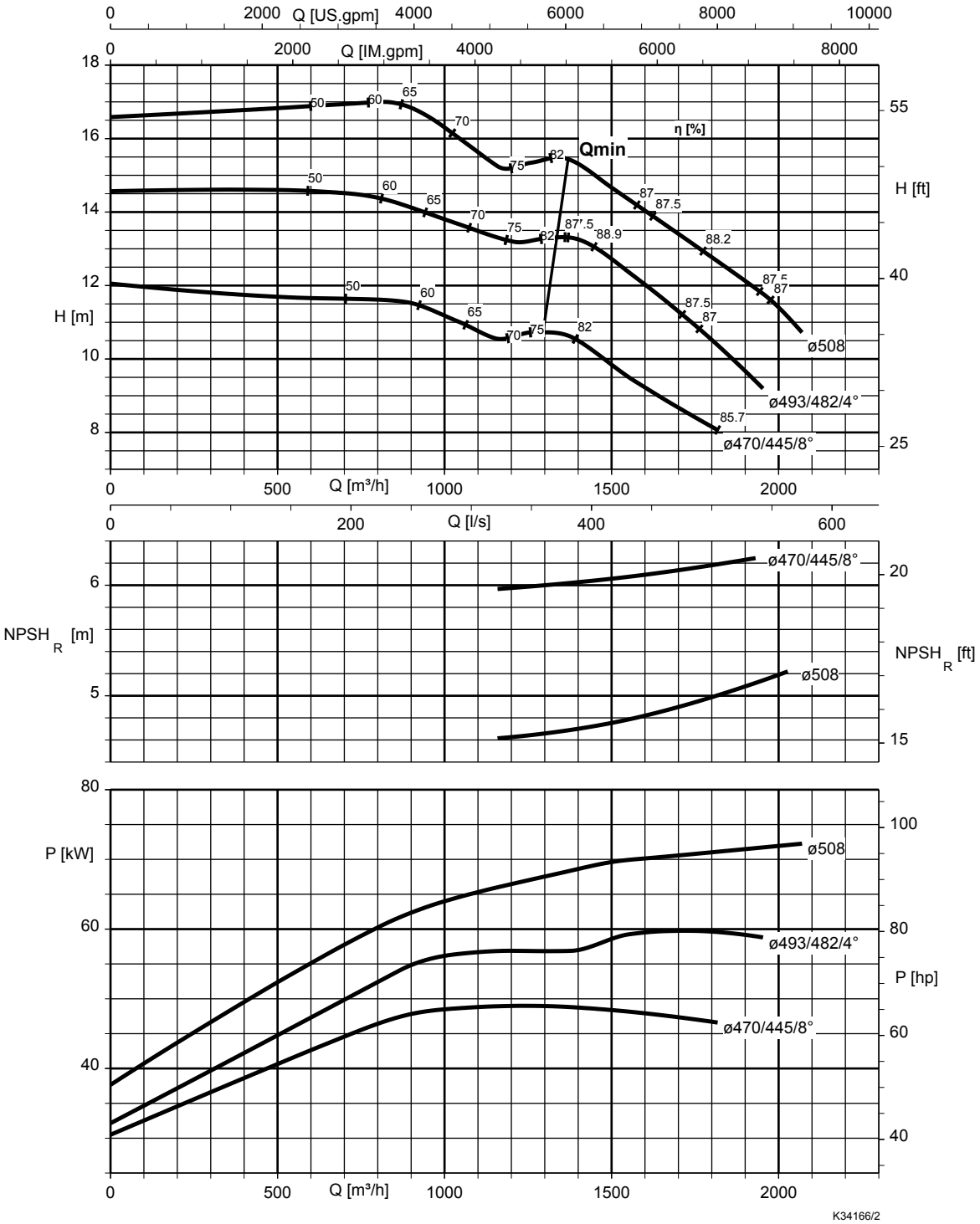
KWP K 350-350-633, n = 700 min⁻¹



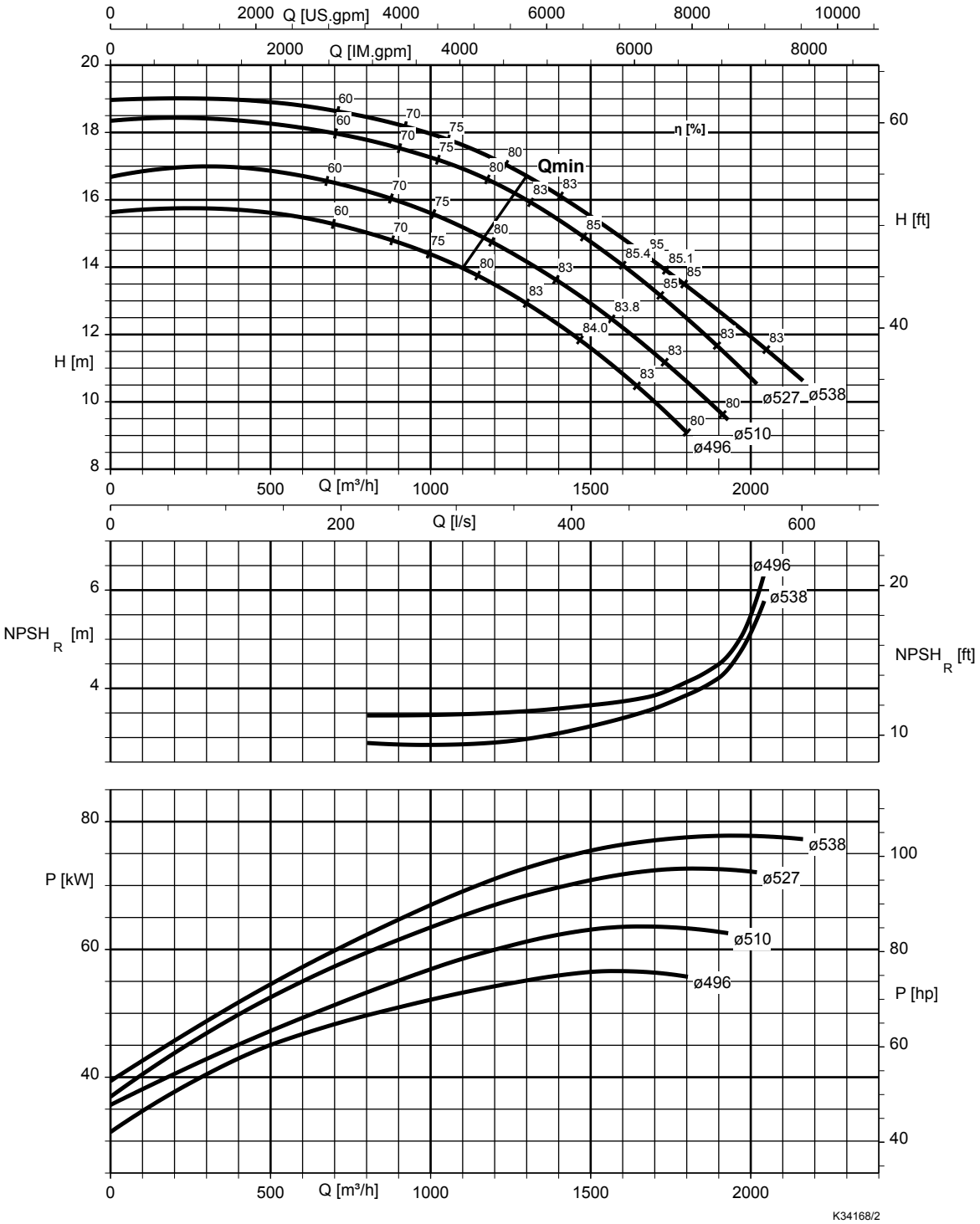
KWP K 400-400-500, n = 700 min⁻¹



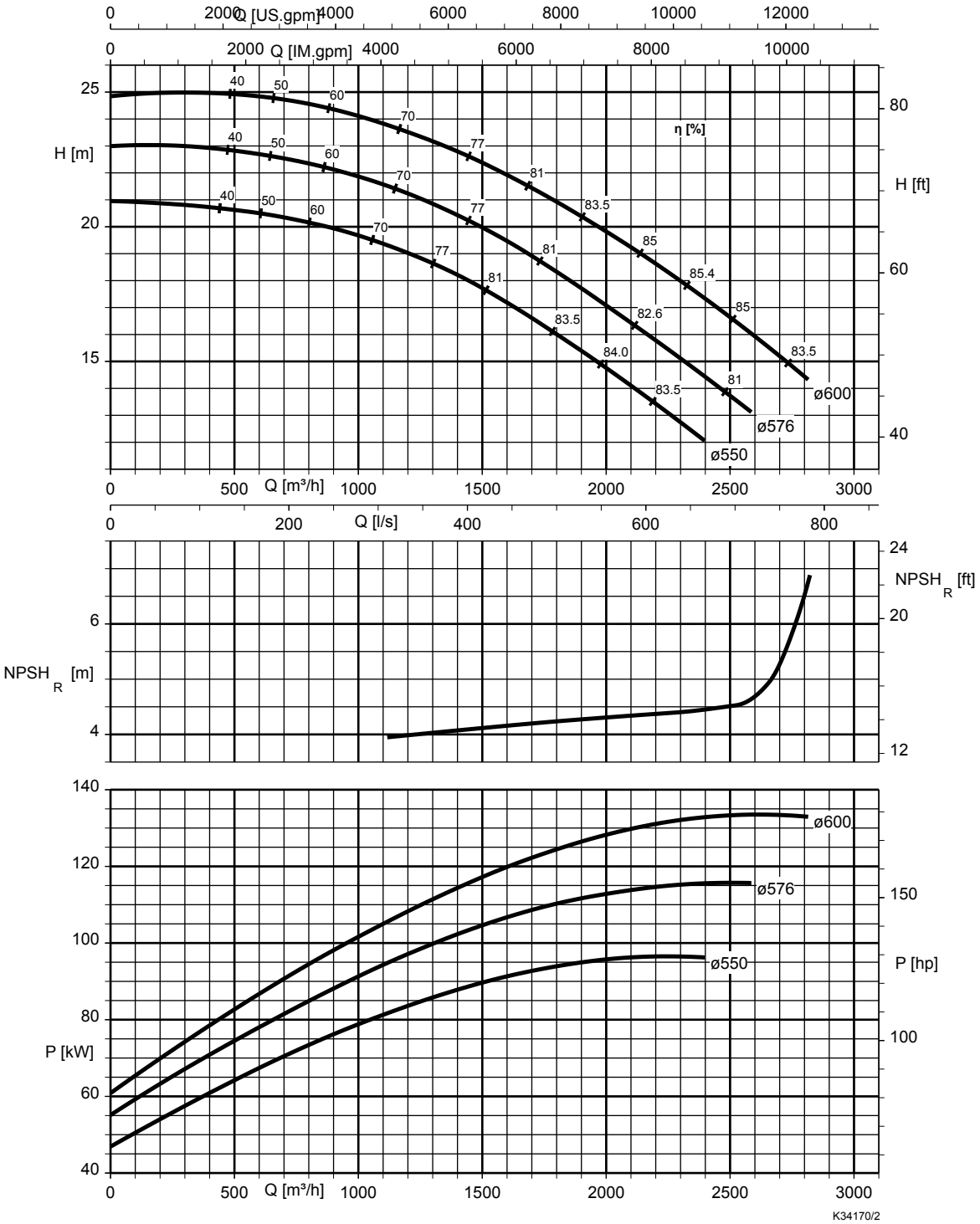
KWP K 400-400-503, n = 700 min⁻¹



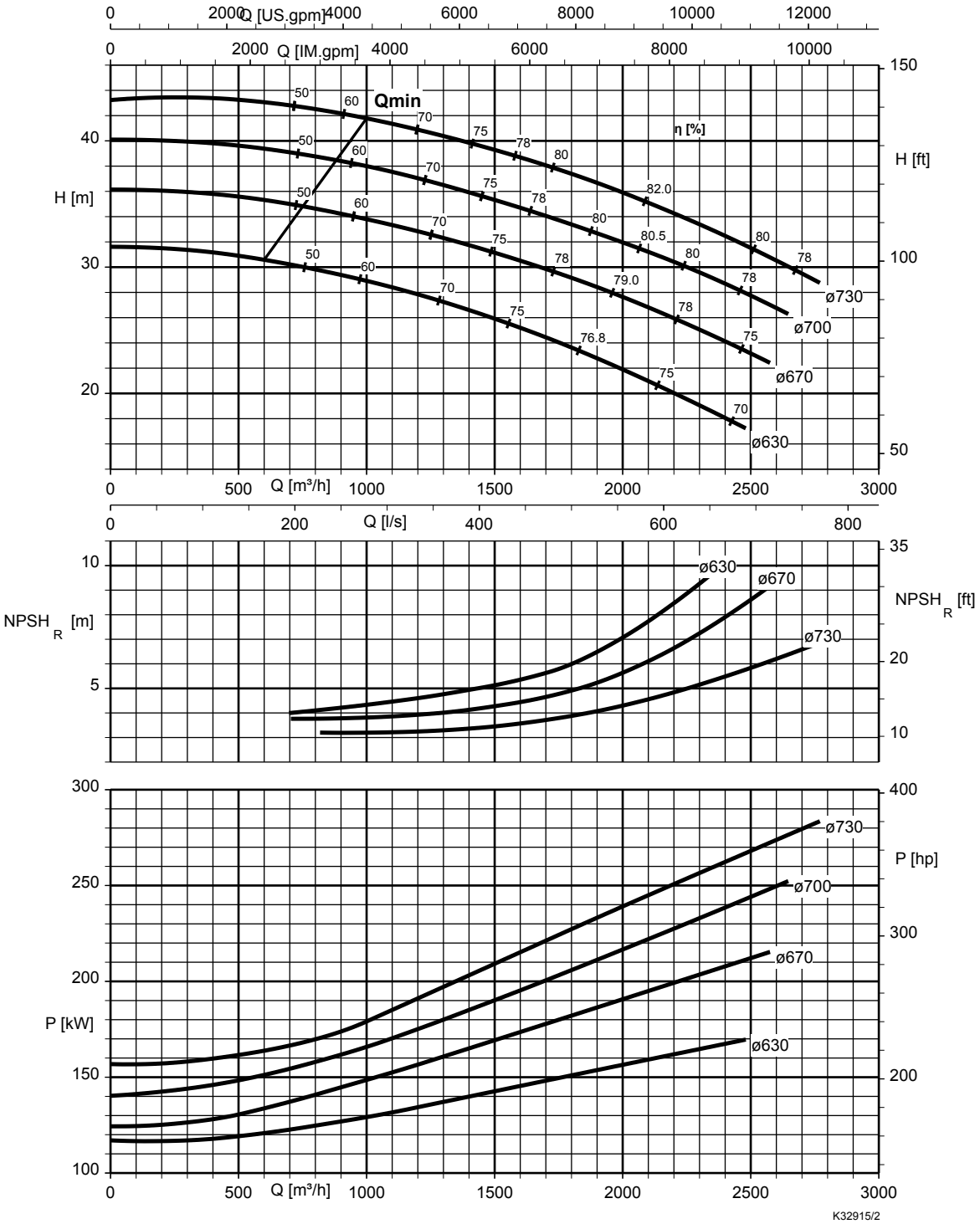
KWP K 400-400-533, n = 700 min⁻¹



KWP K 400-400-583, n = 700 min⁻¹



KWP K 500-400-710, n = 700 min⁻¹



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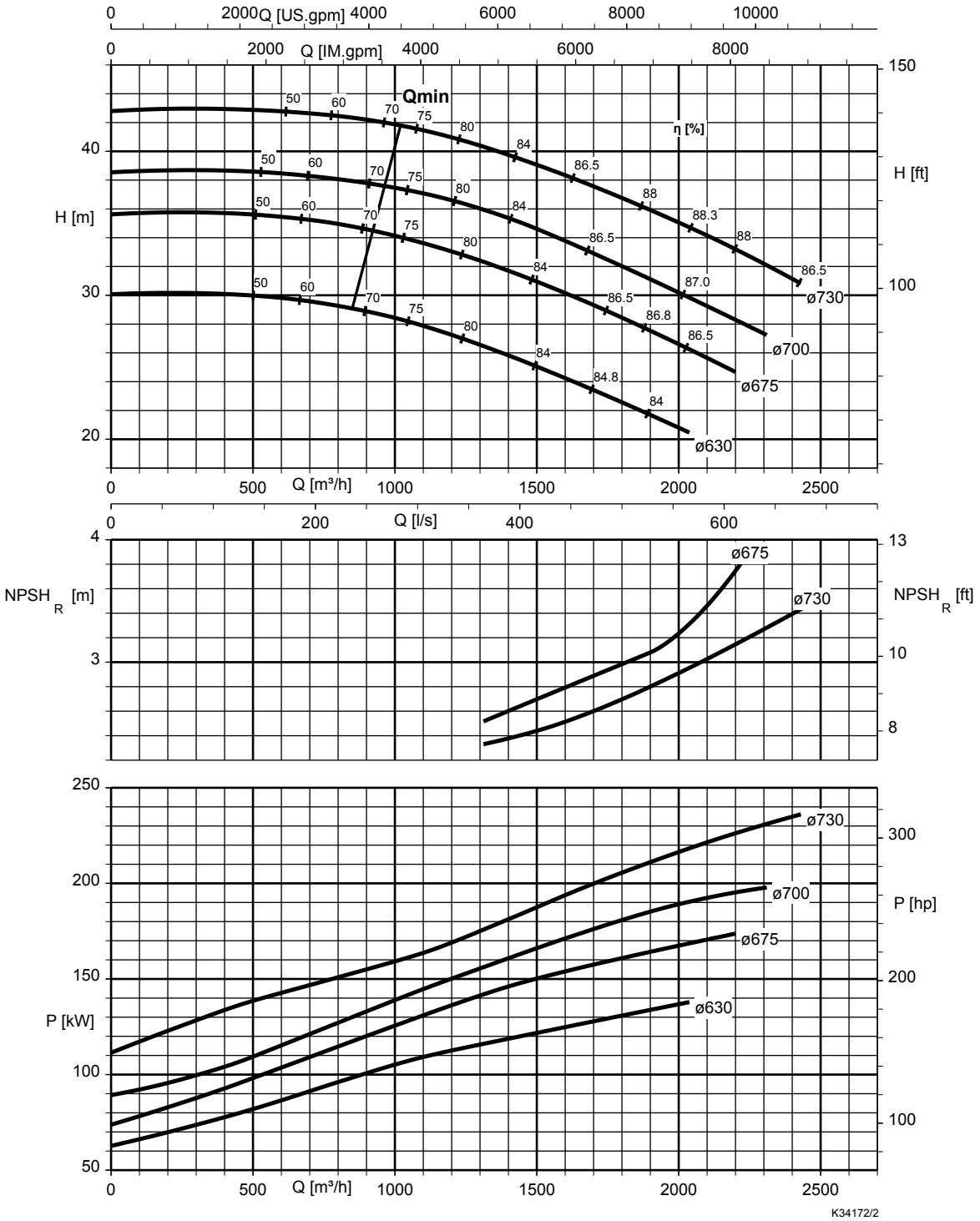
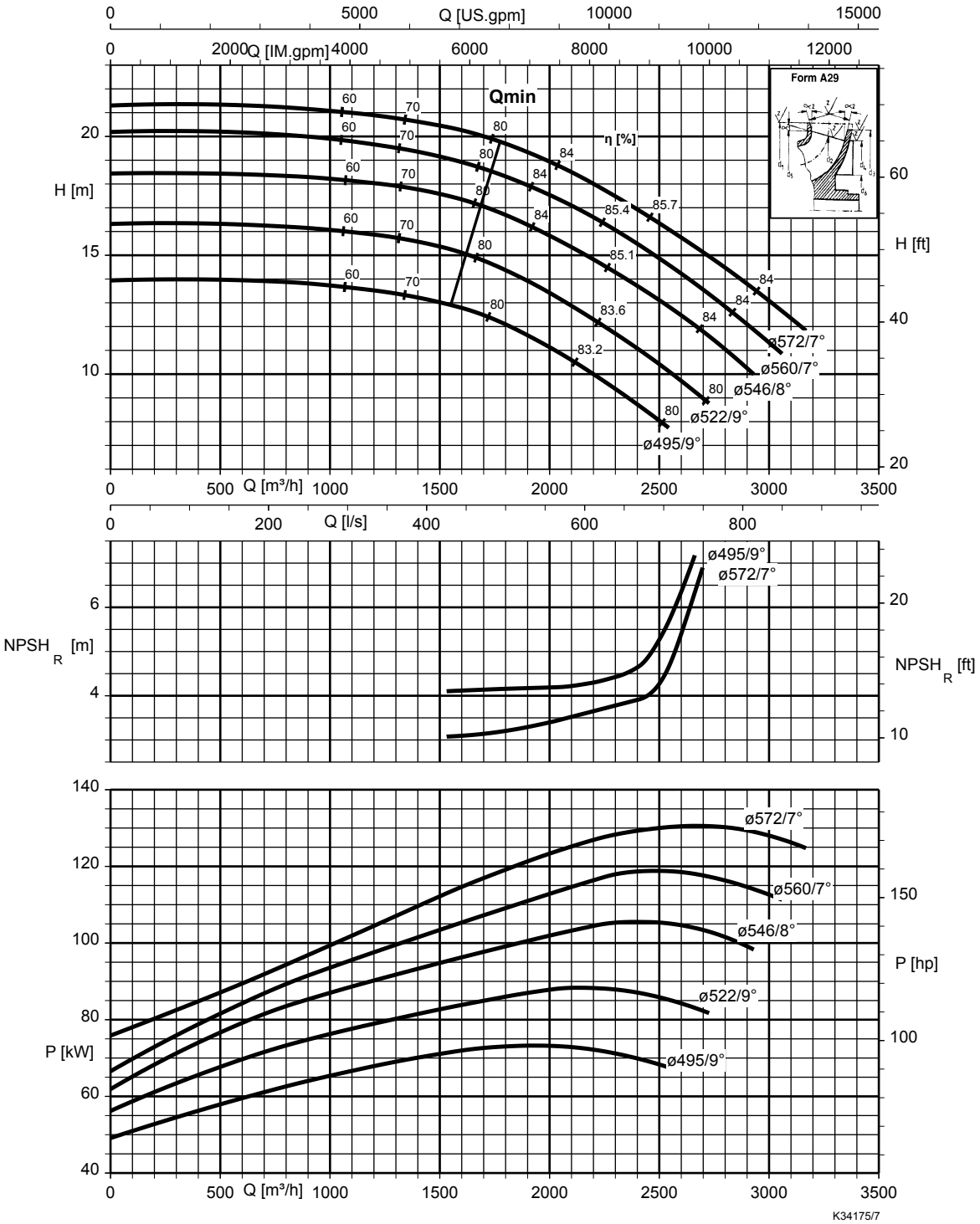
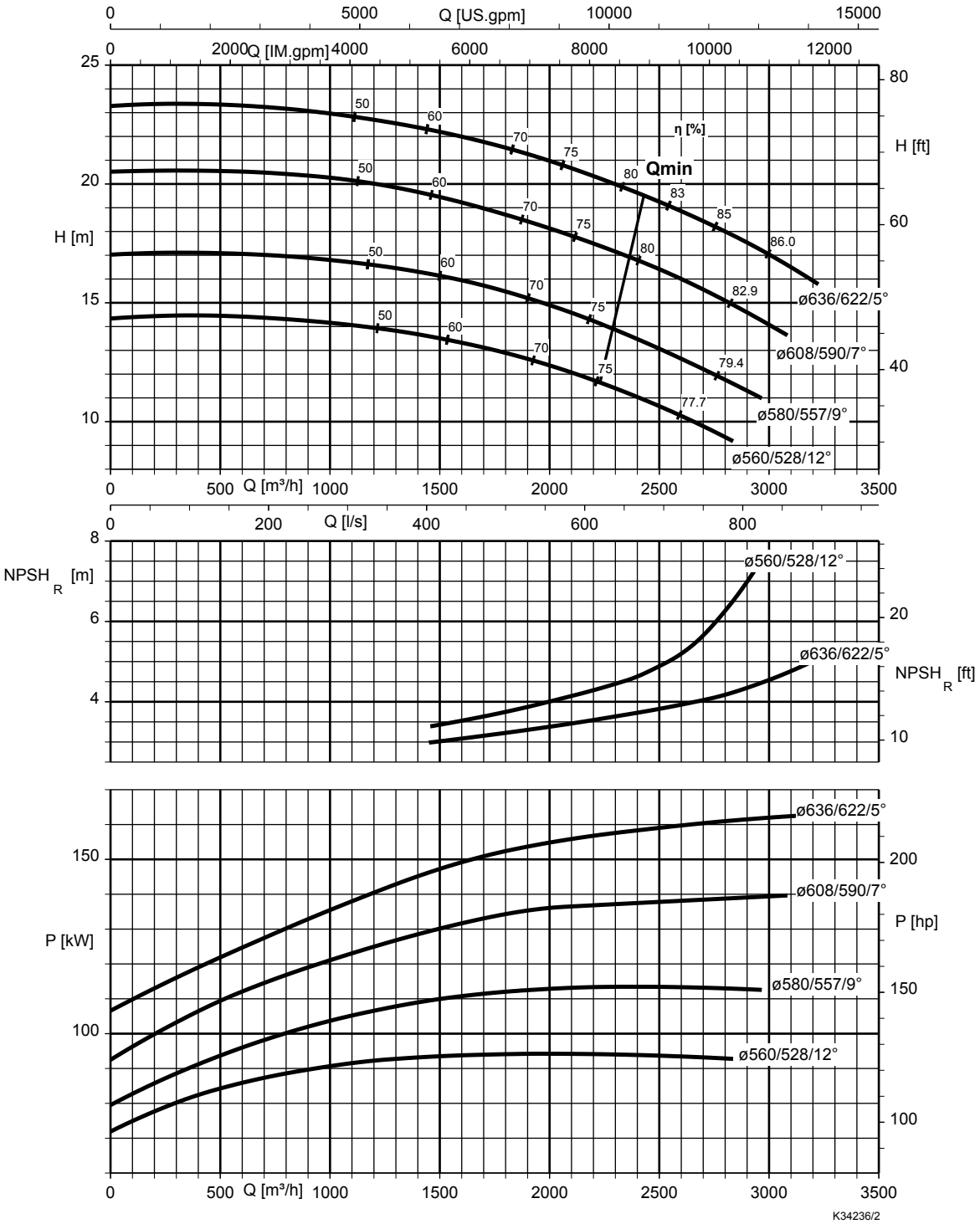


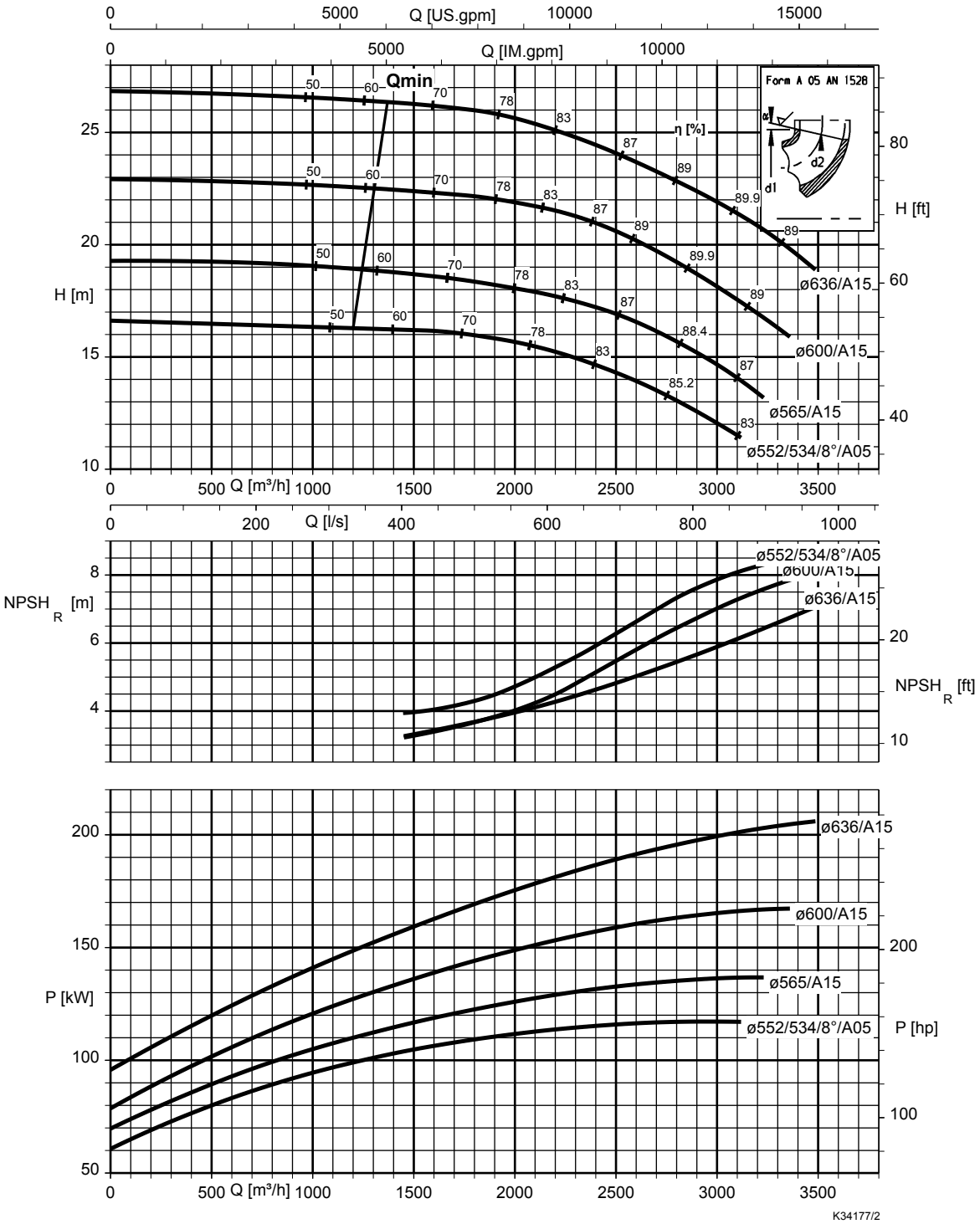
KWP K 500-500-544, n = 700 min⁻¹



KWP K 500-500-630, n = 700 min⁻¹



KWP K 500-500-633, n = 700 min⁻¹



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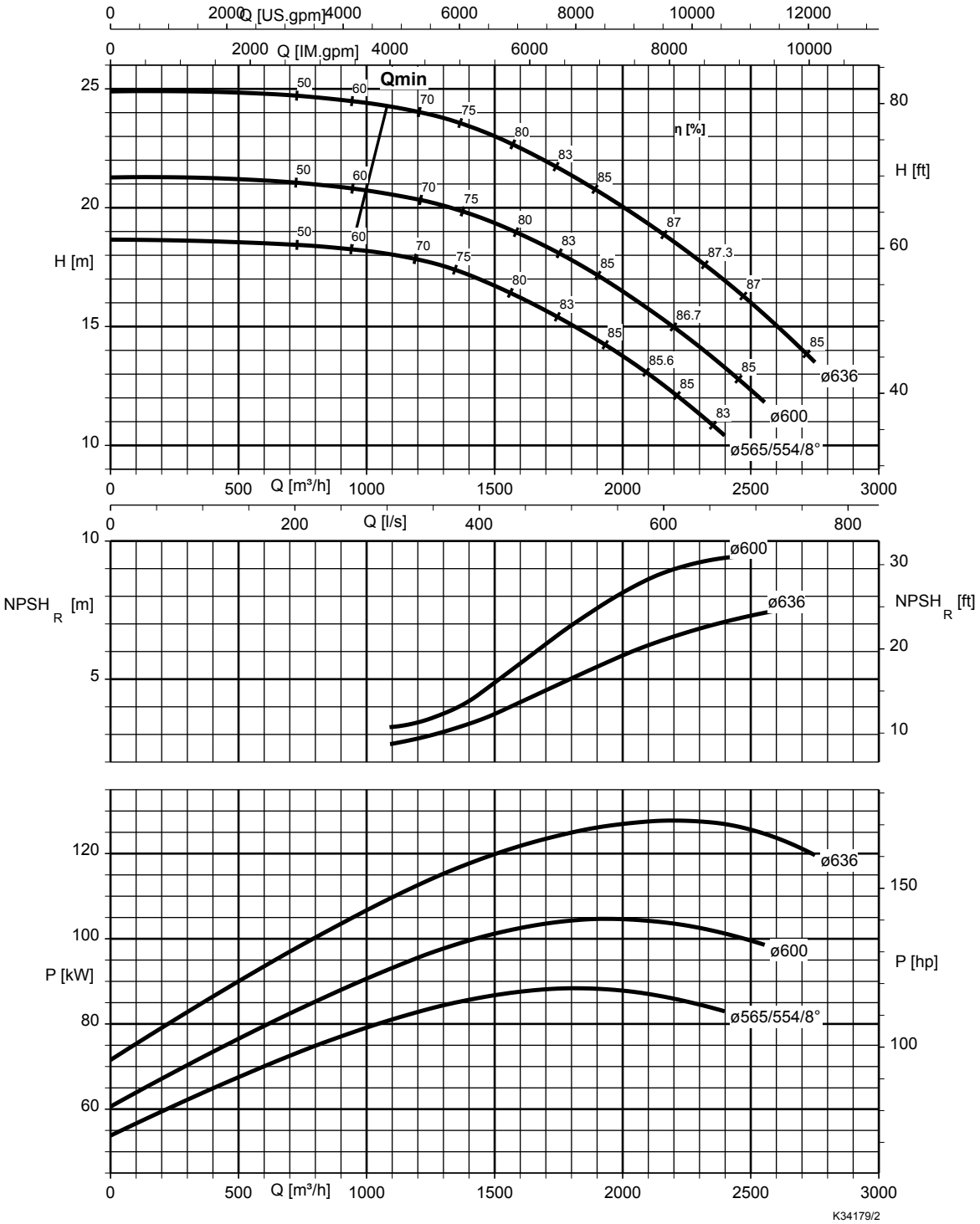

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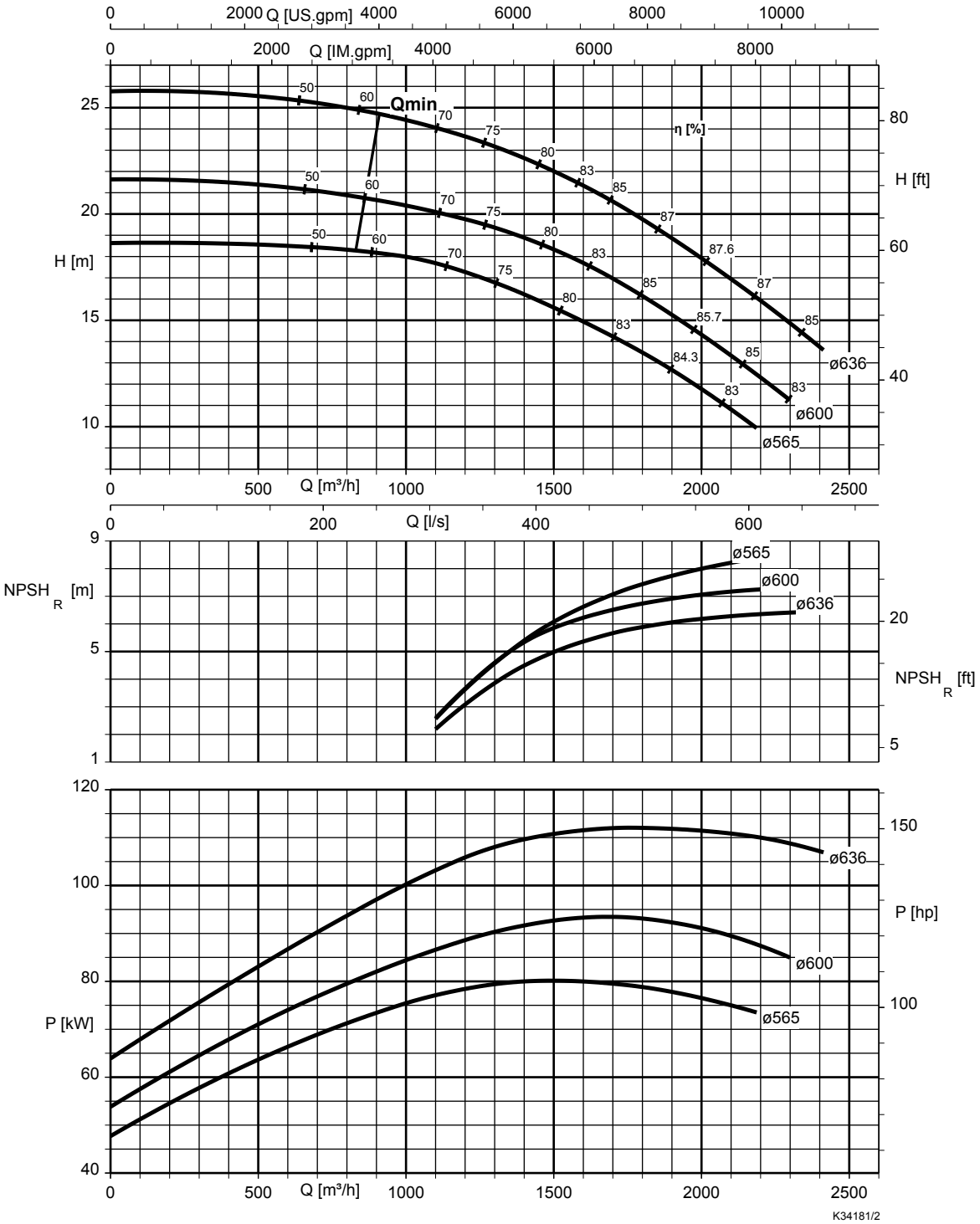
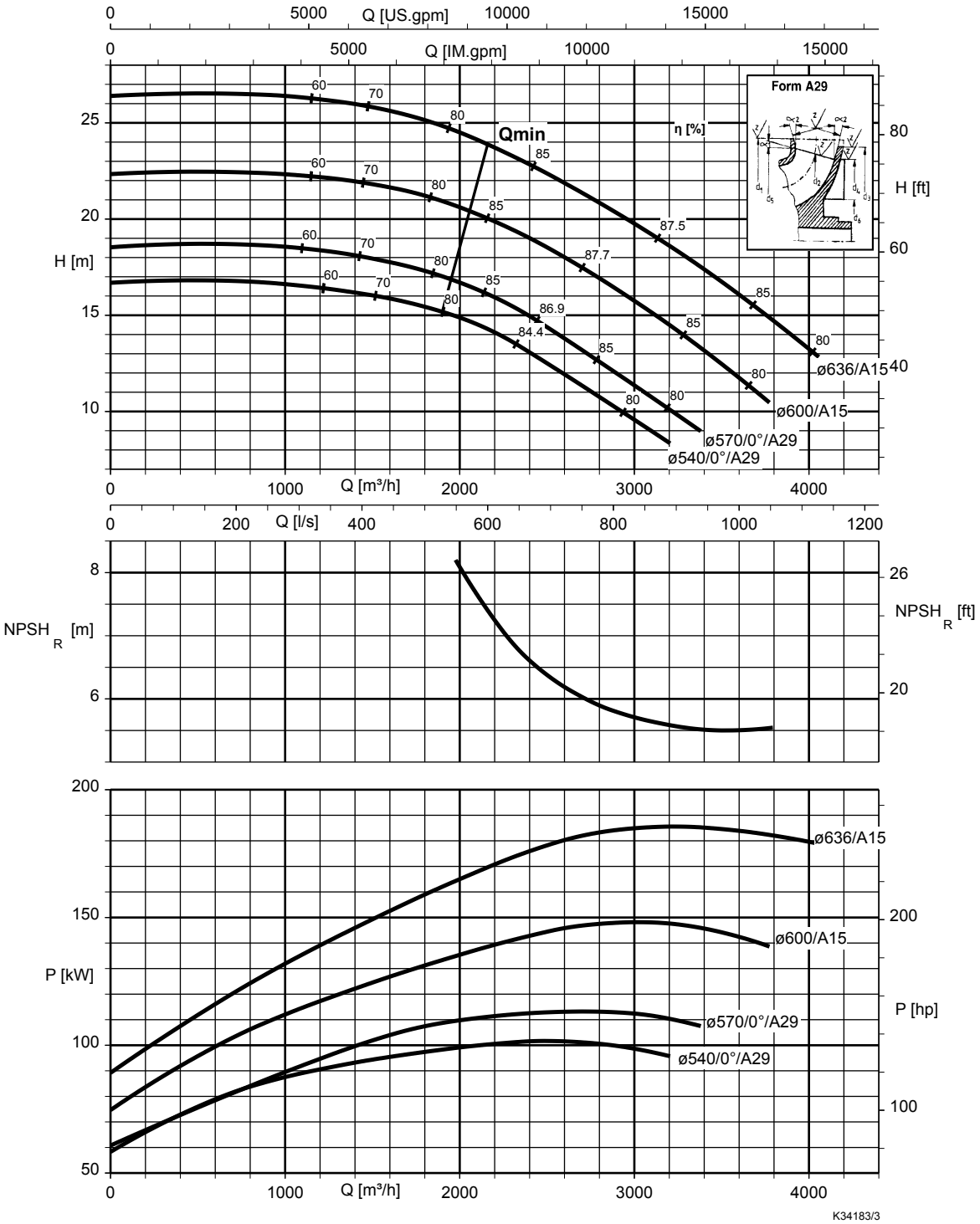


KWP K 500-500-637, n = 700 min⁻¹



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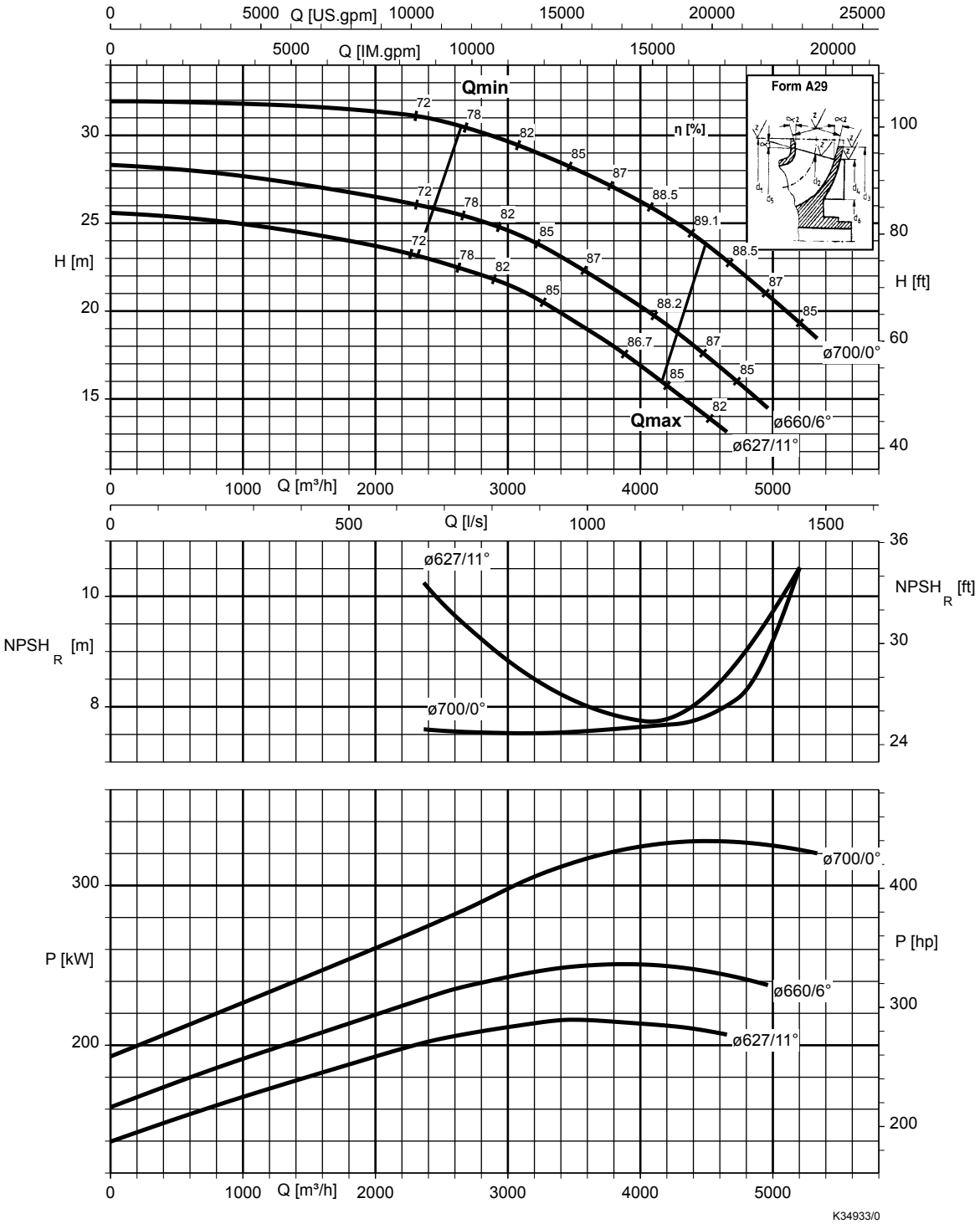
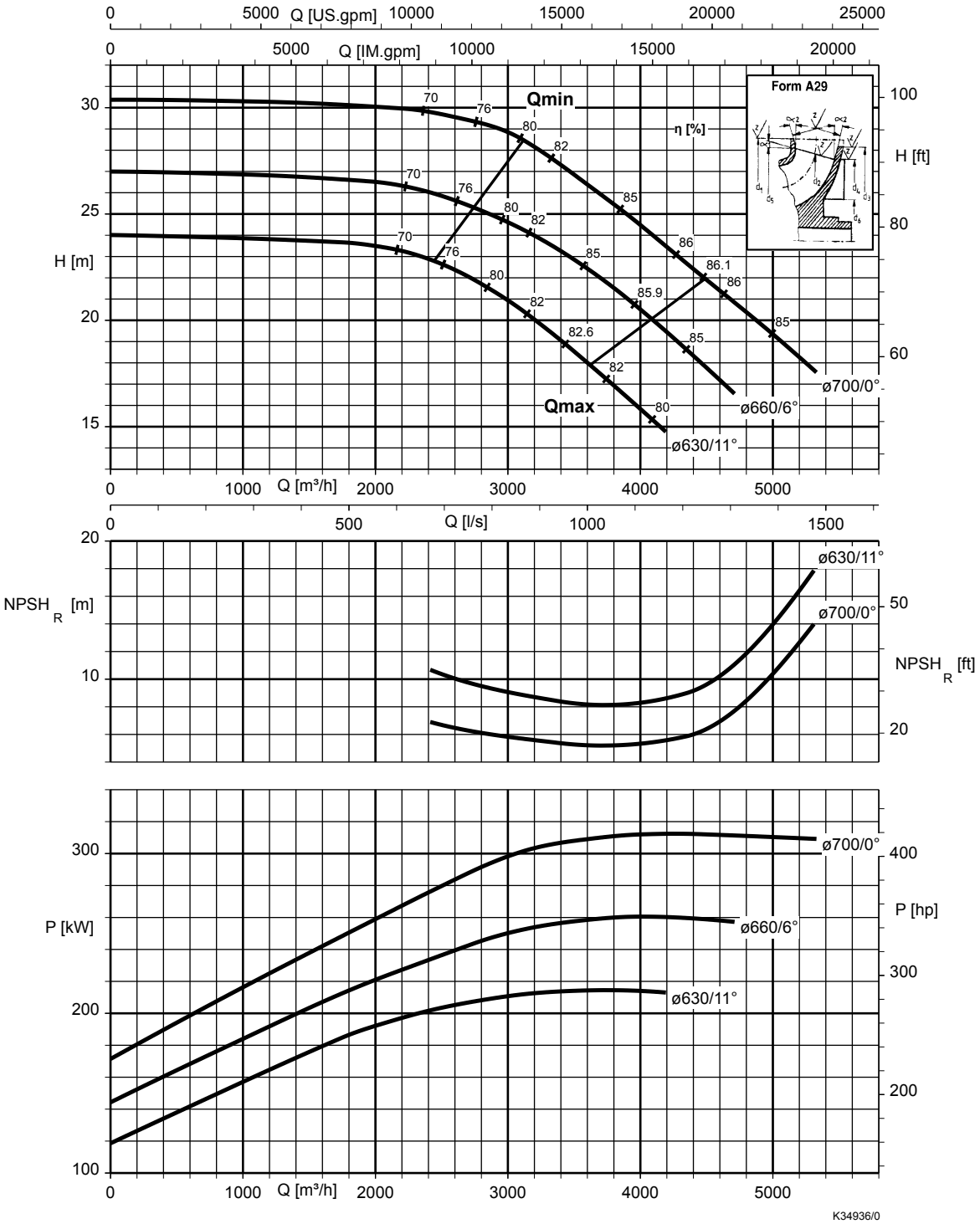


KWP K 600-600-669, n = 700 min⁻¹



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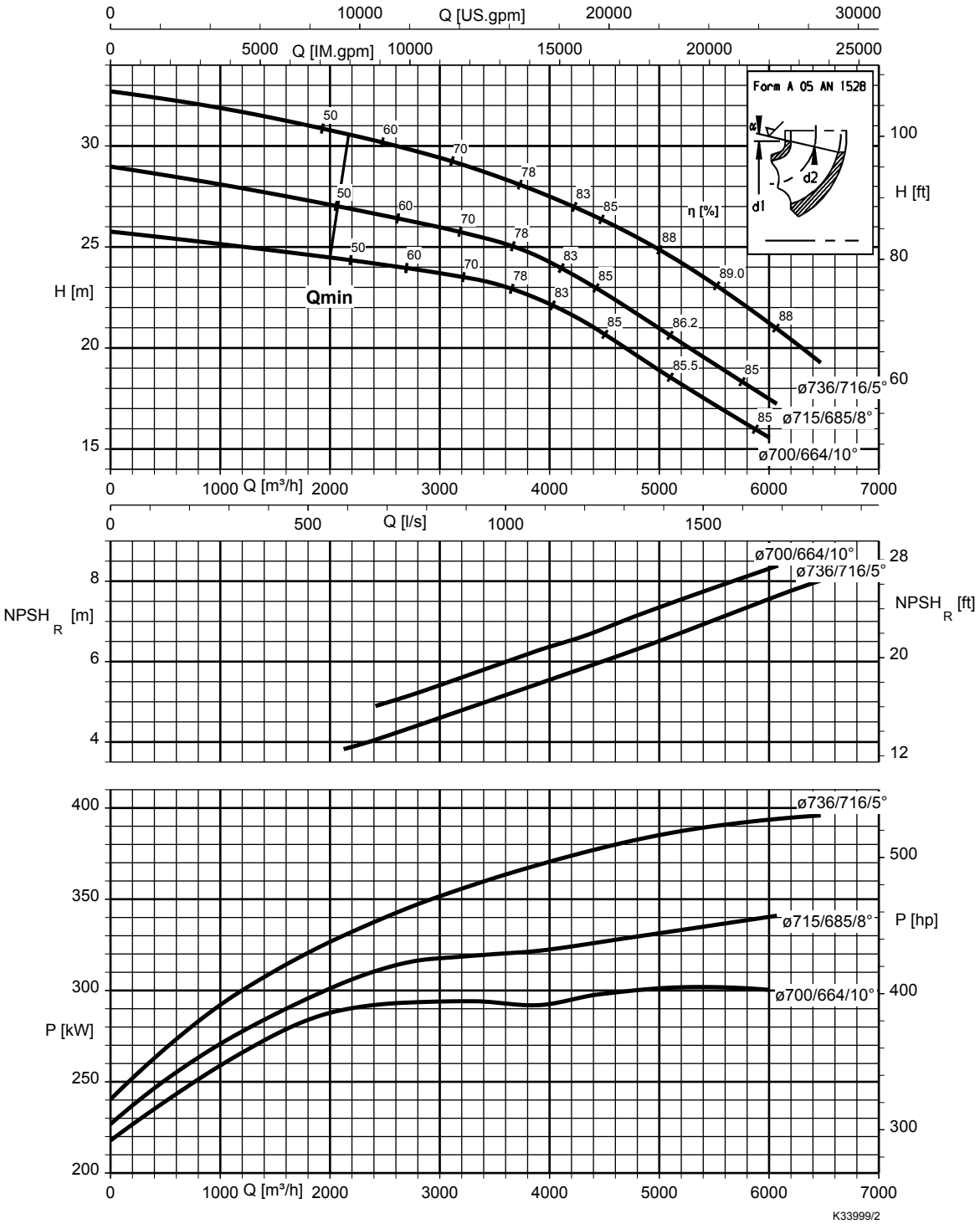

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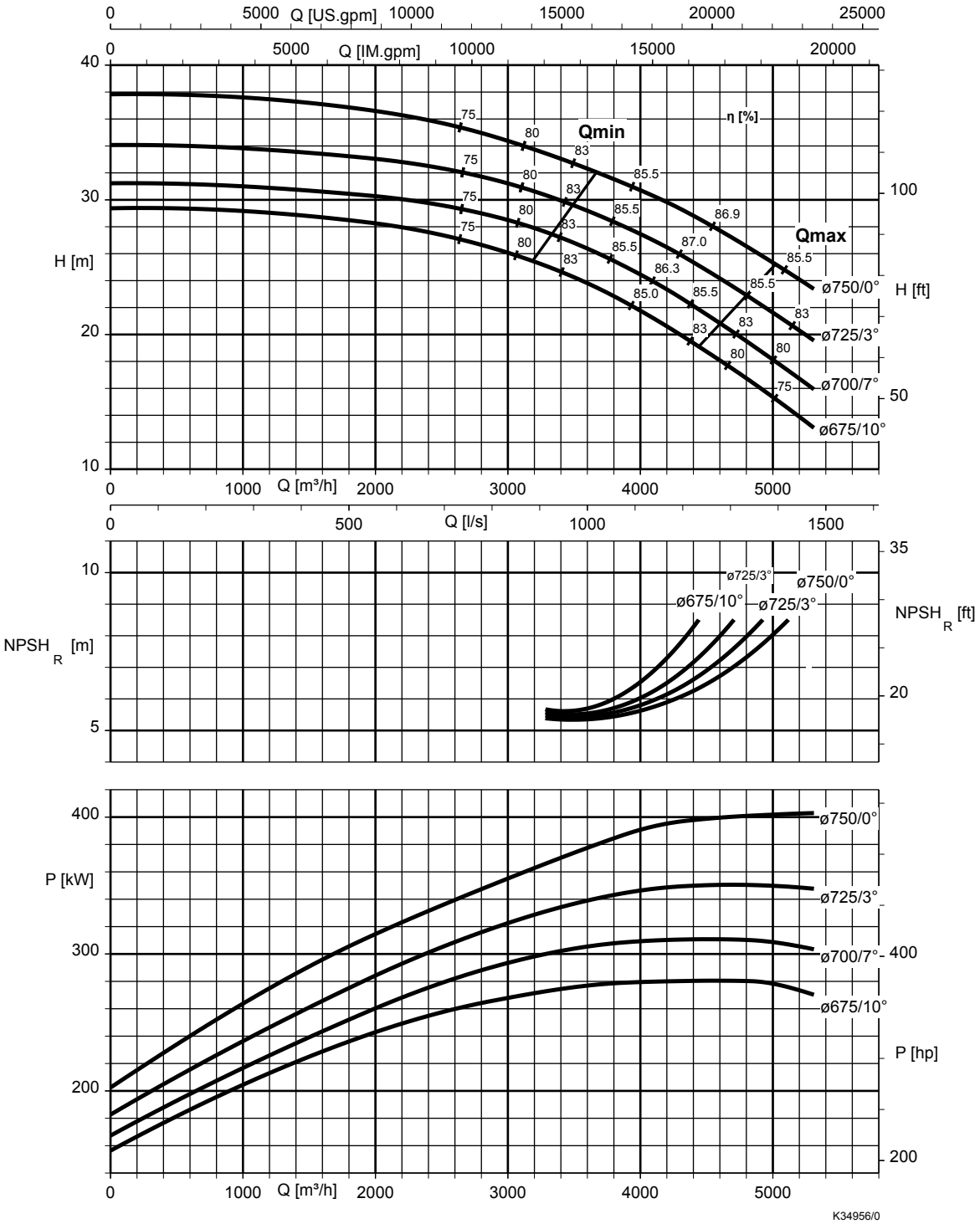

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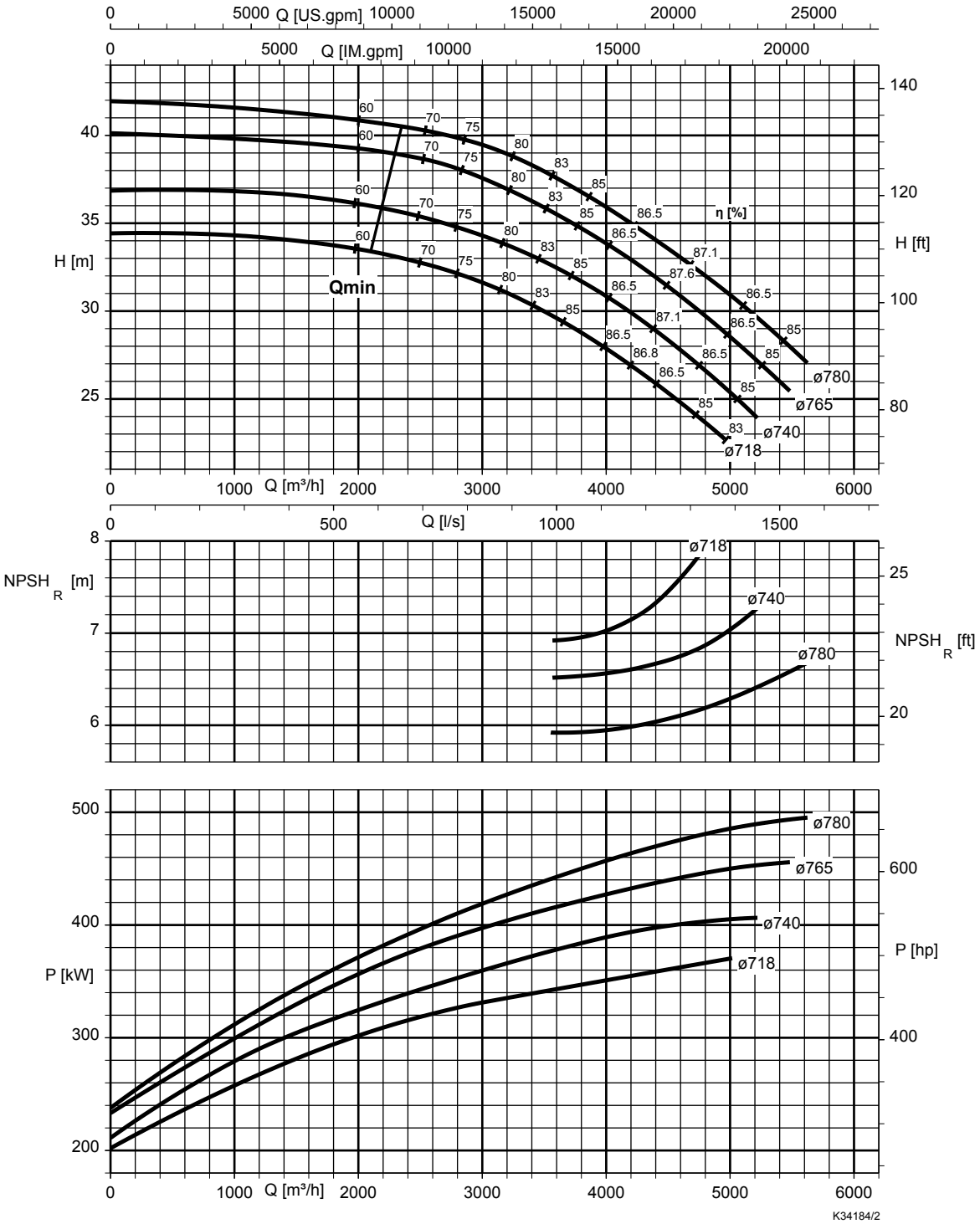

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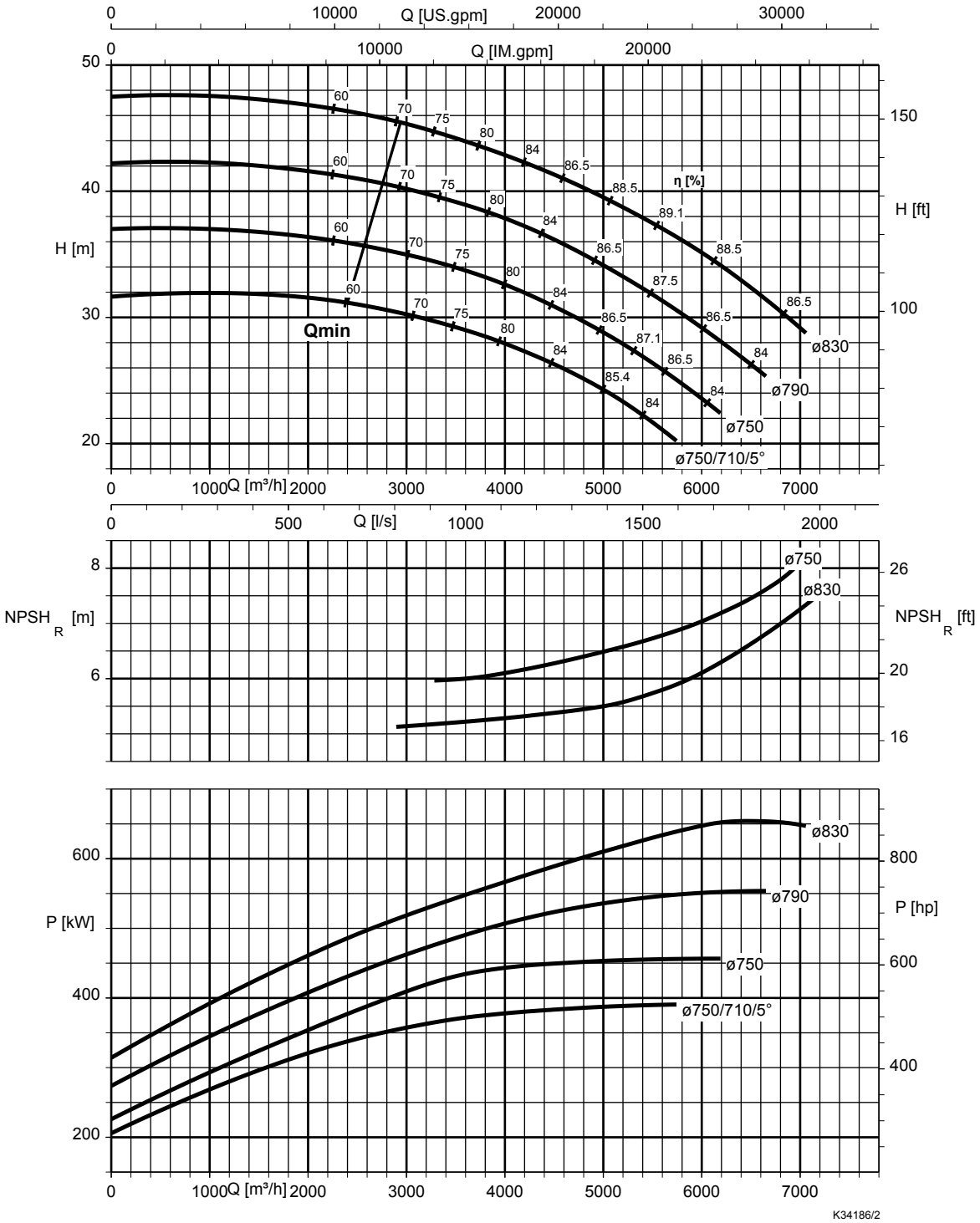
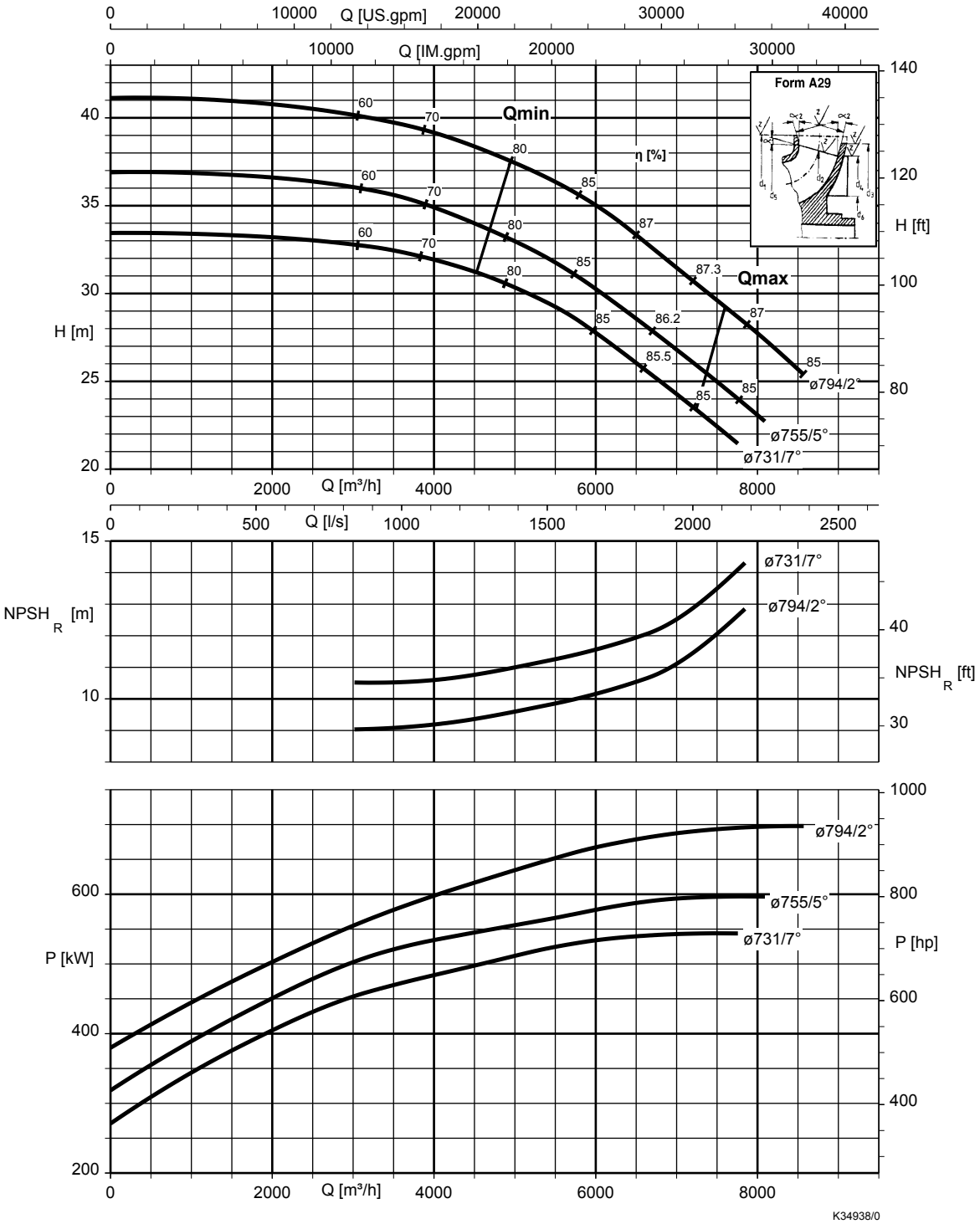
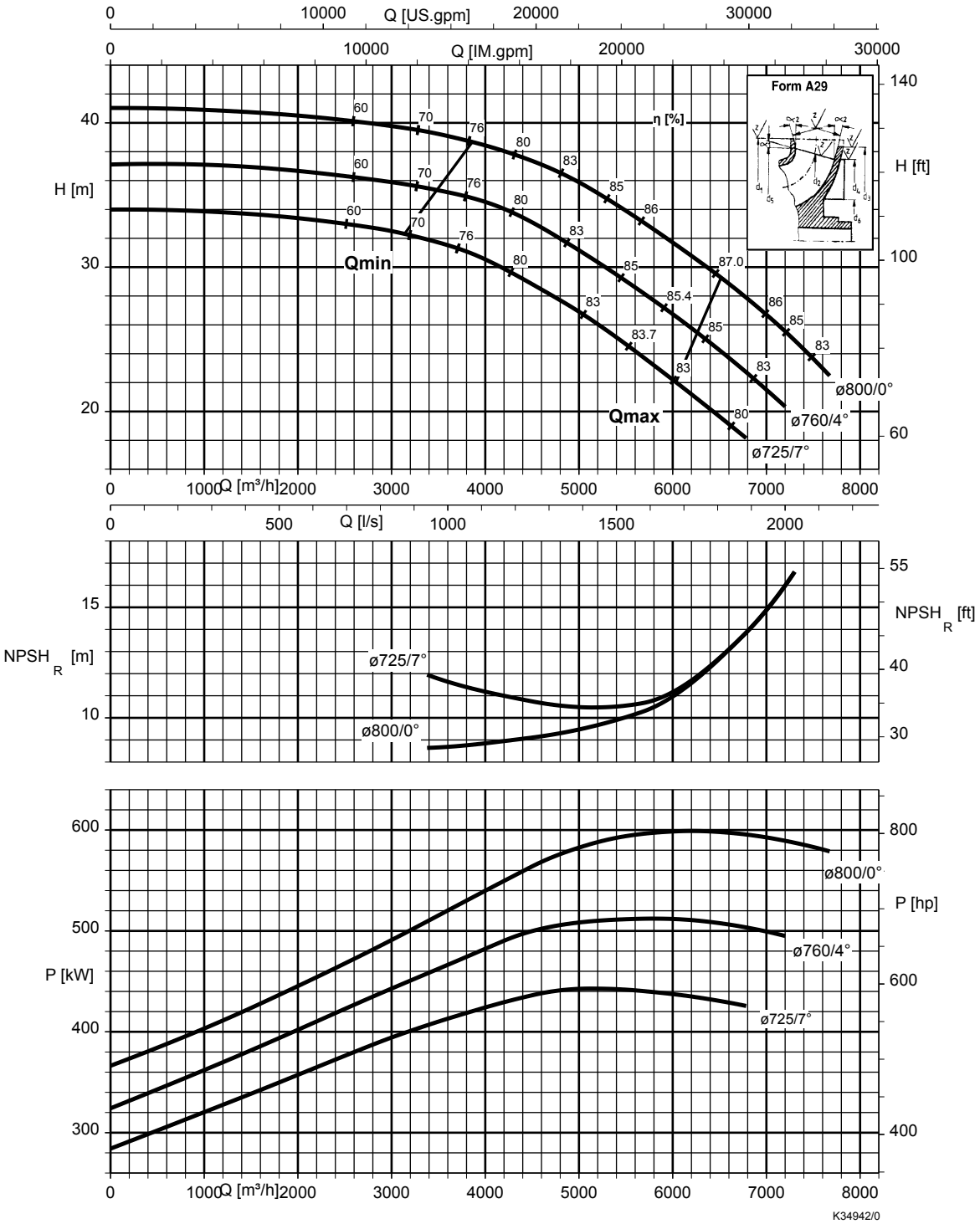


KWP K 600-600-824, n = 700 min⁻¹

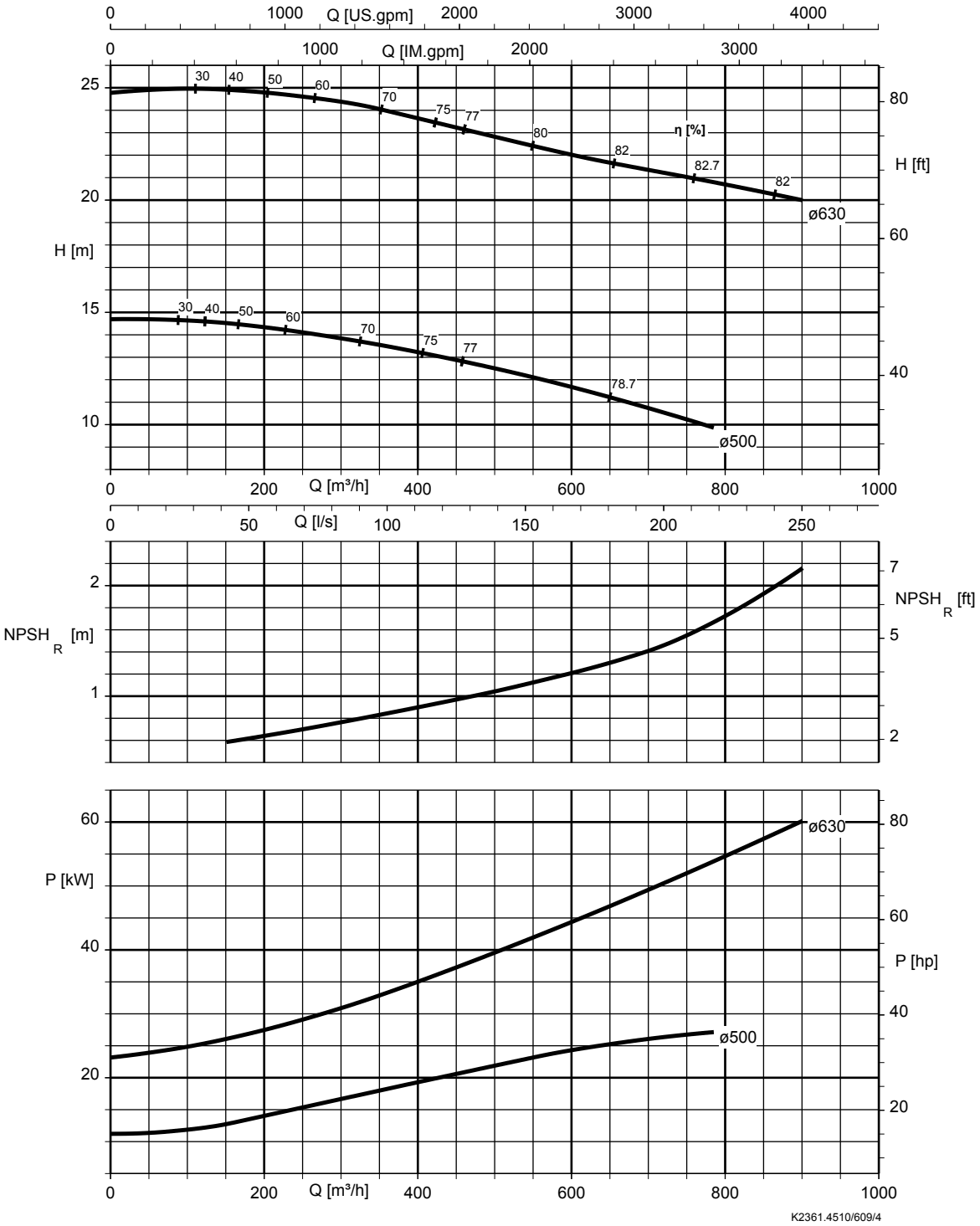


KWP K 600-600-825, n = 700 min⁻¹

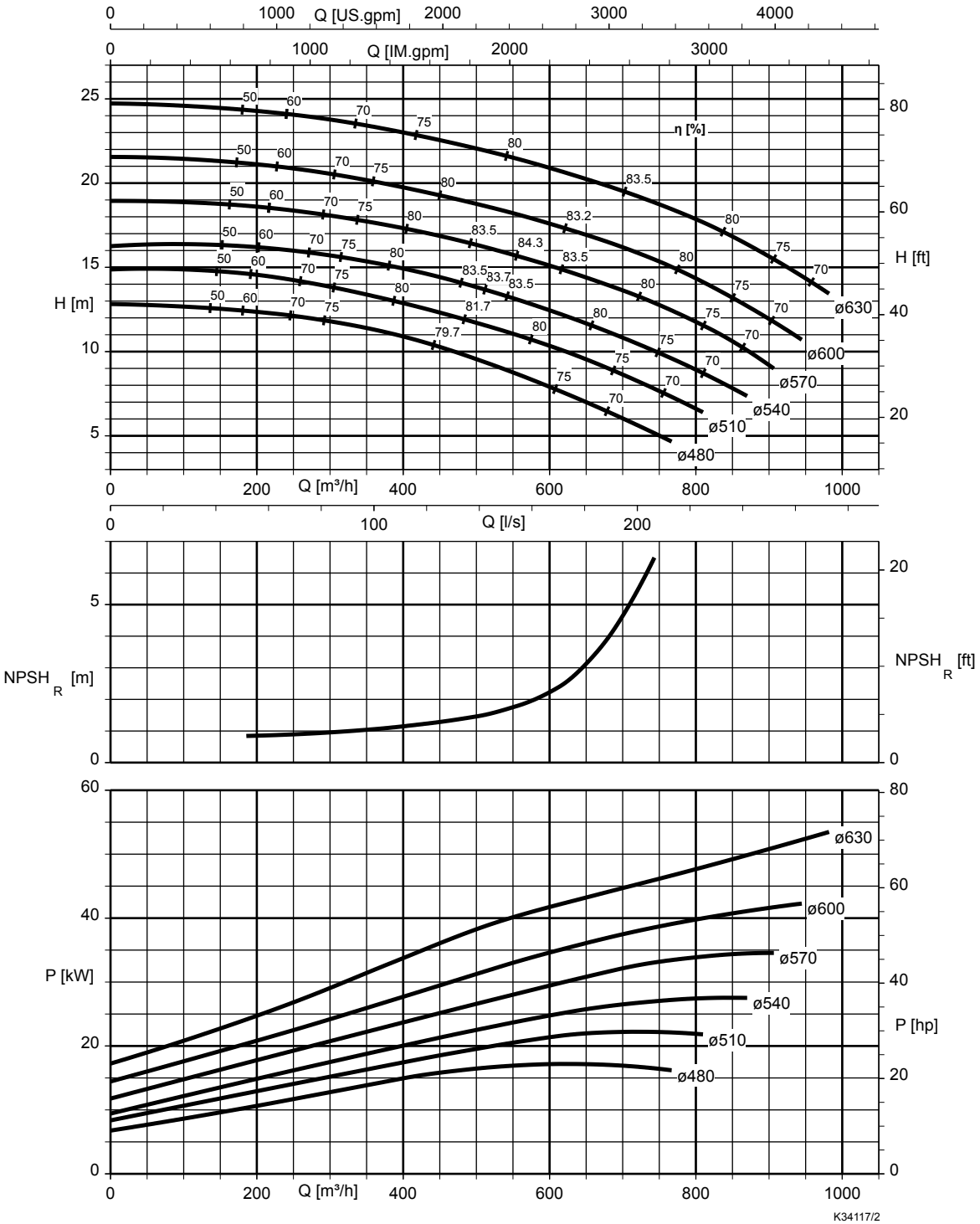


n = 580 min⁻¹

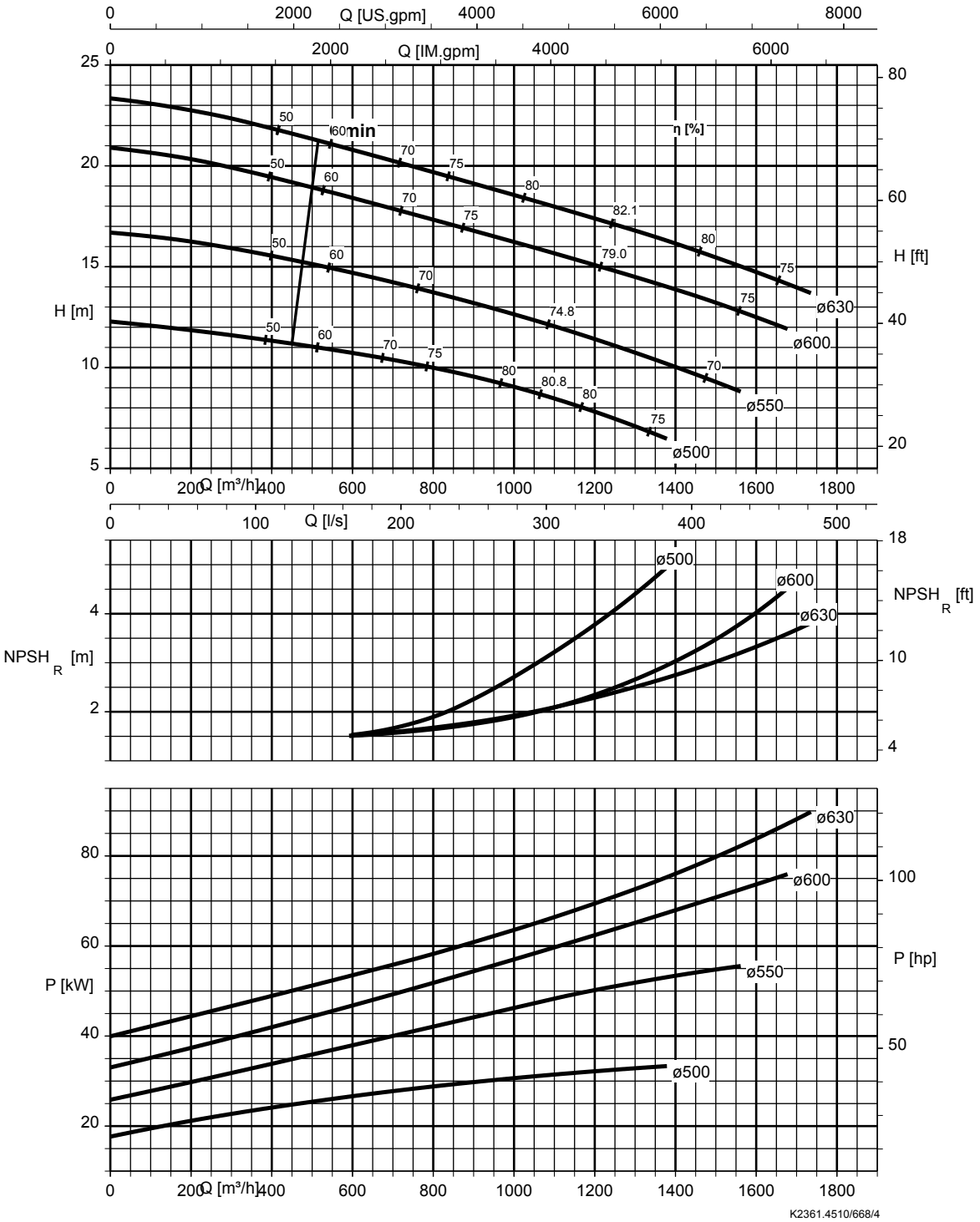
KWP K 250-250-630, n = 580 min⁻¹



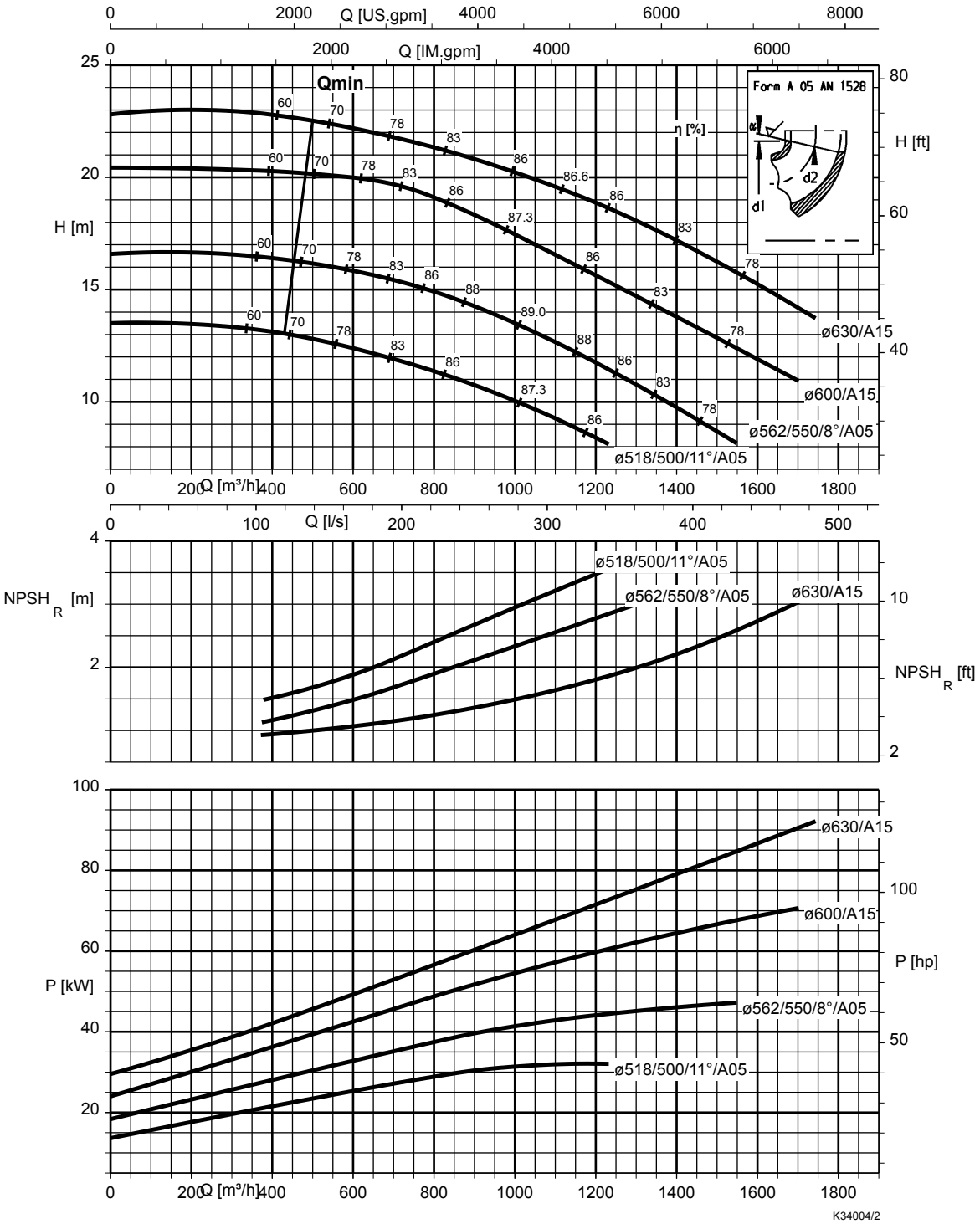
KWP K 250-250-634, n = 580 min⁻¹



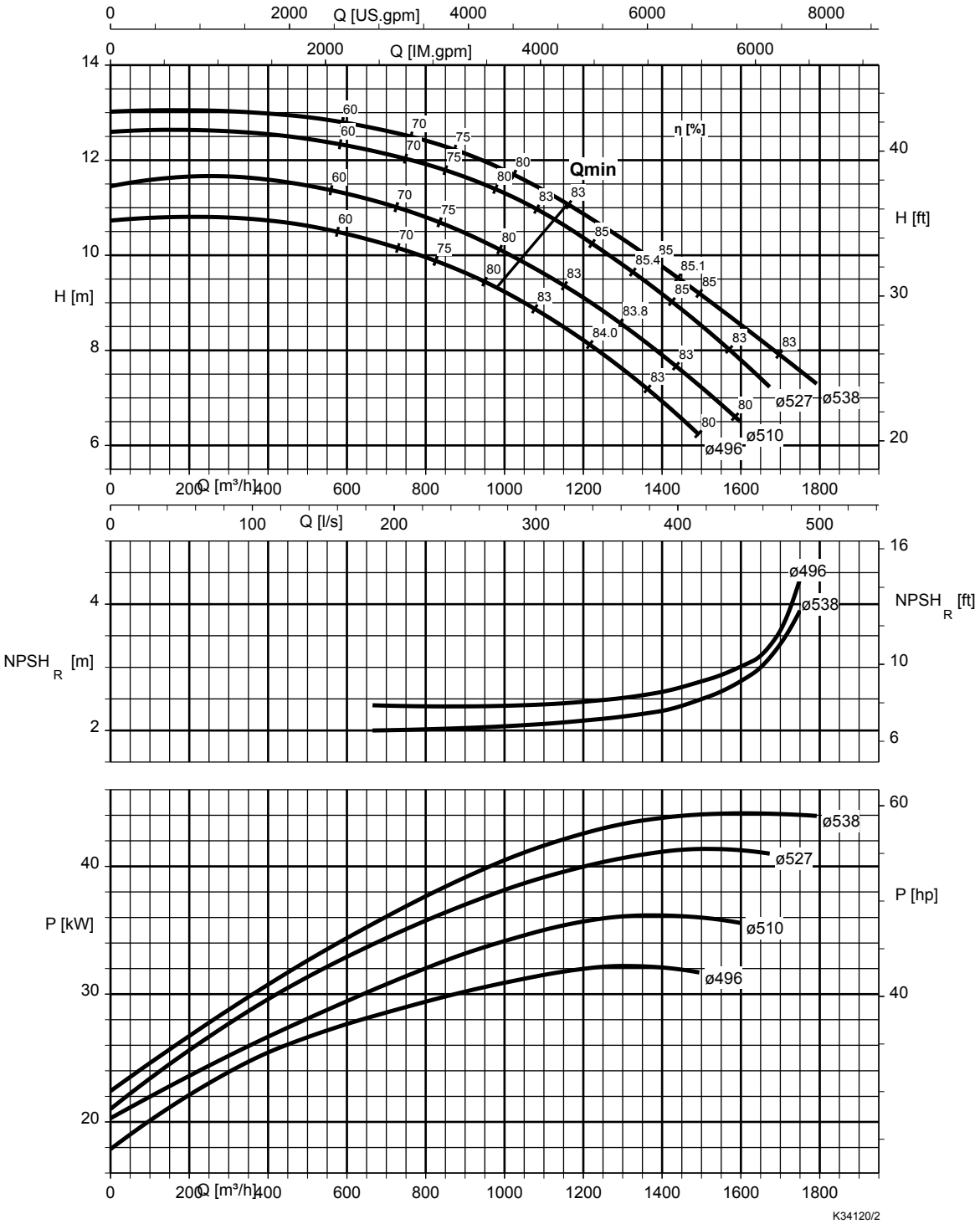
KWP K 350-350-630, n = 580 min⁻¹



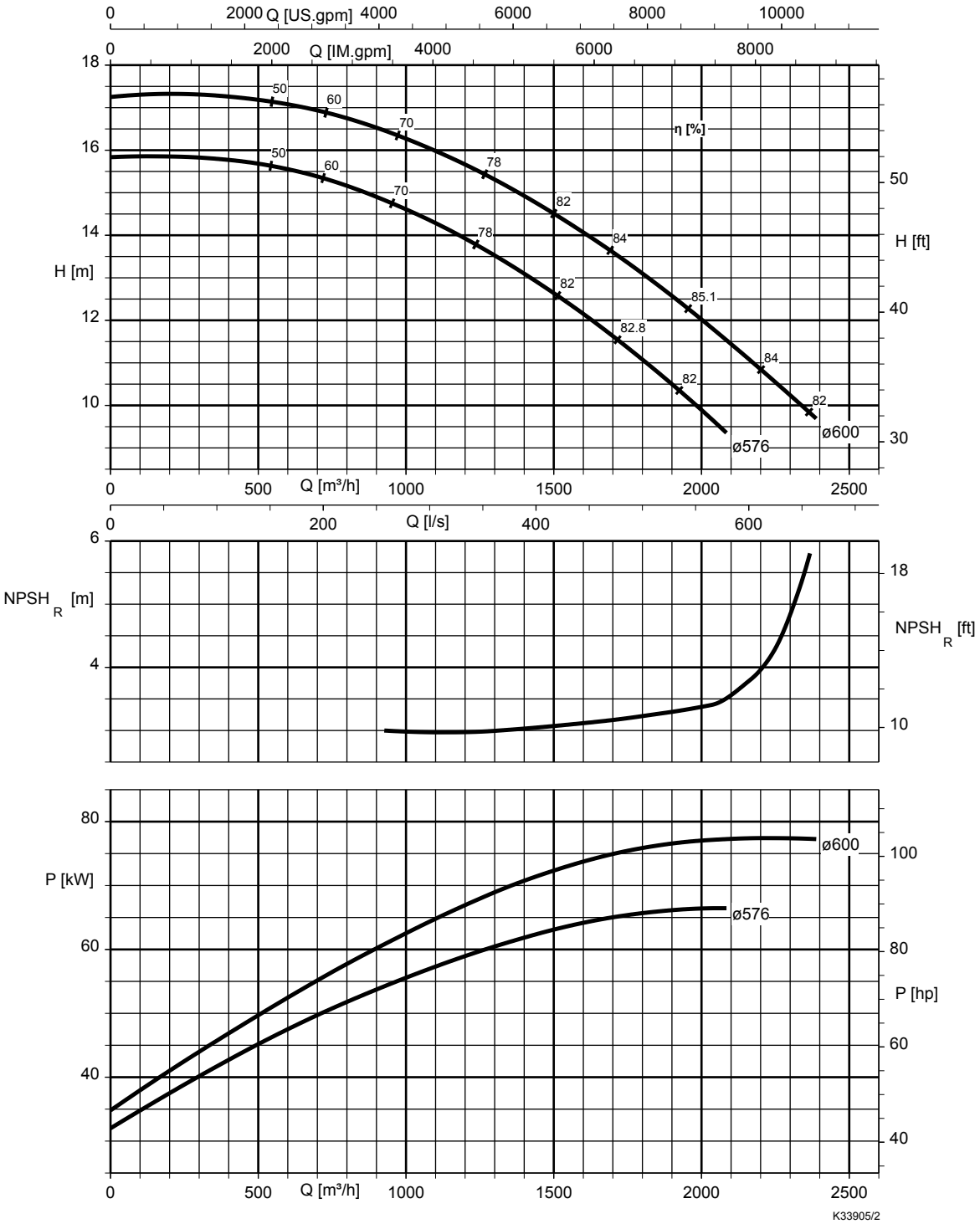
KWP K 350-350-633, n = 580 min⁻¹



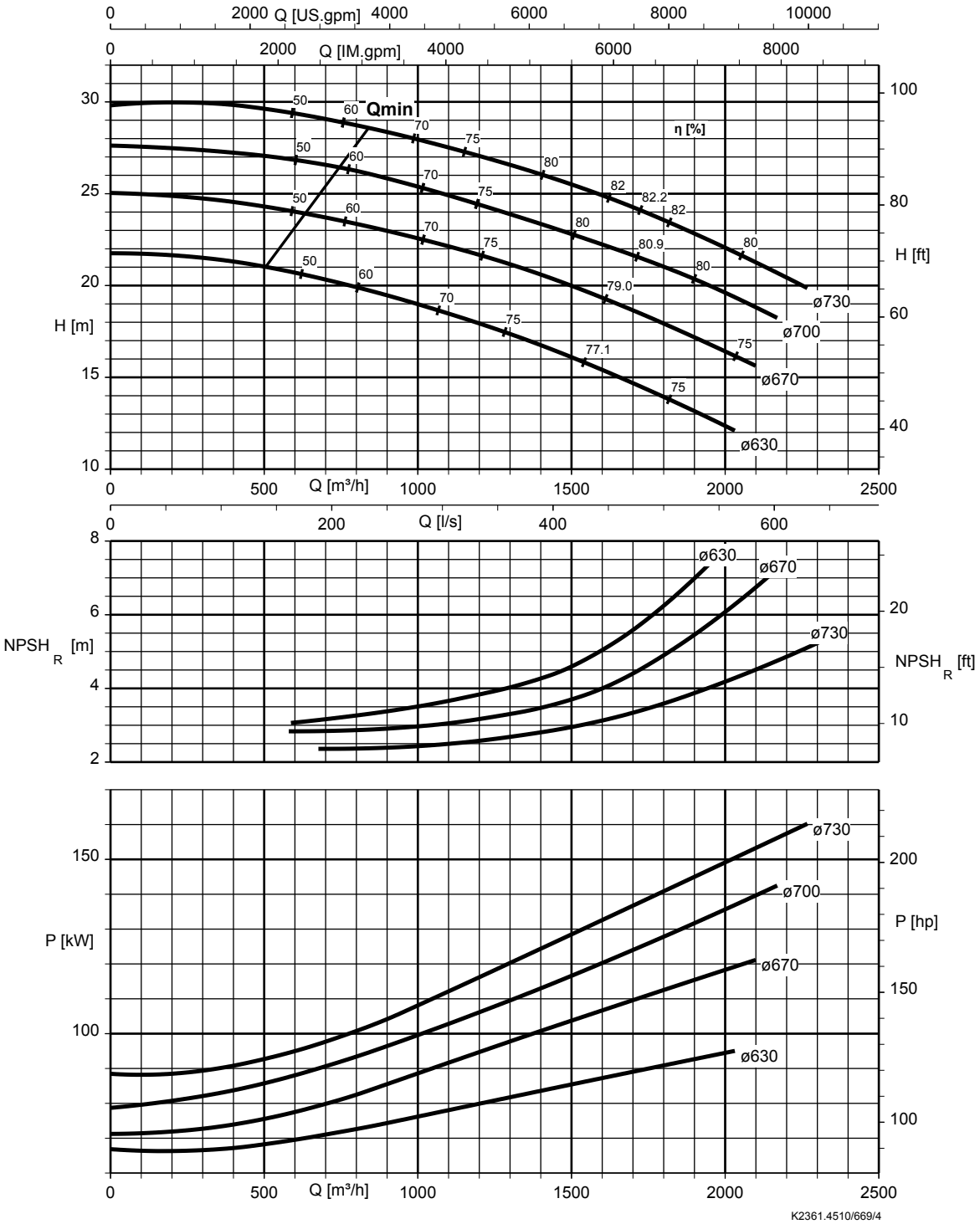
KWP K 400-400-533, n = 580 min⁻¹



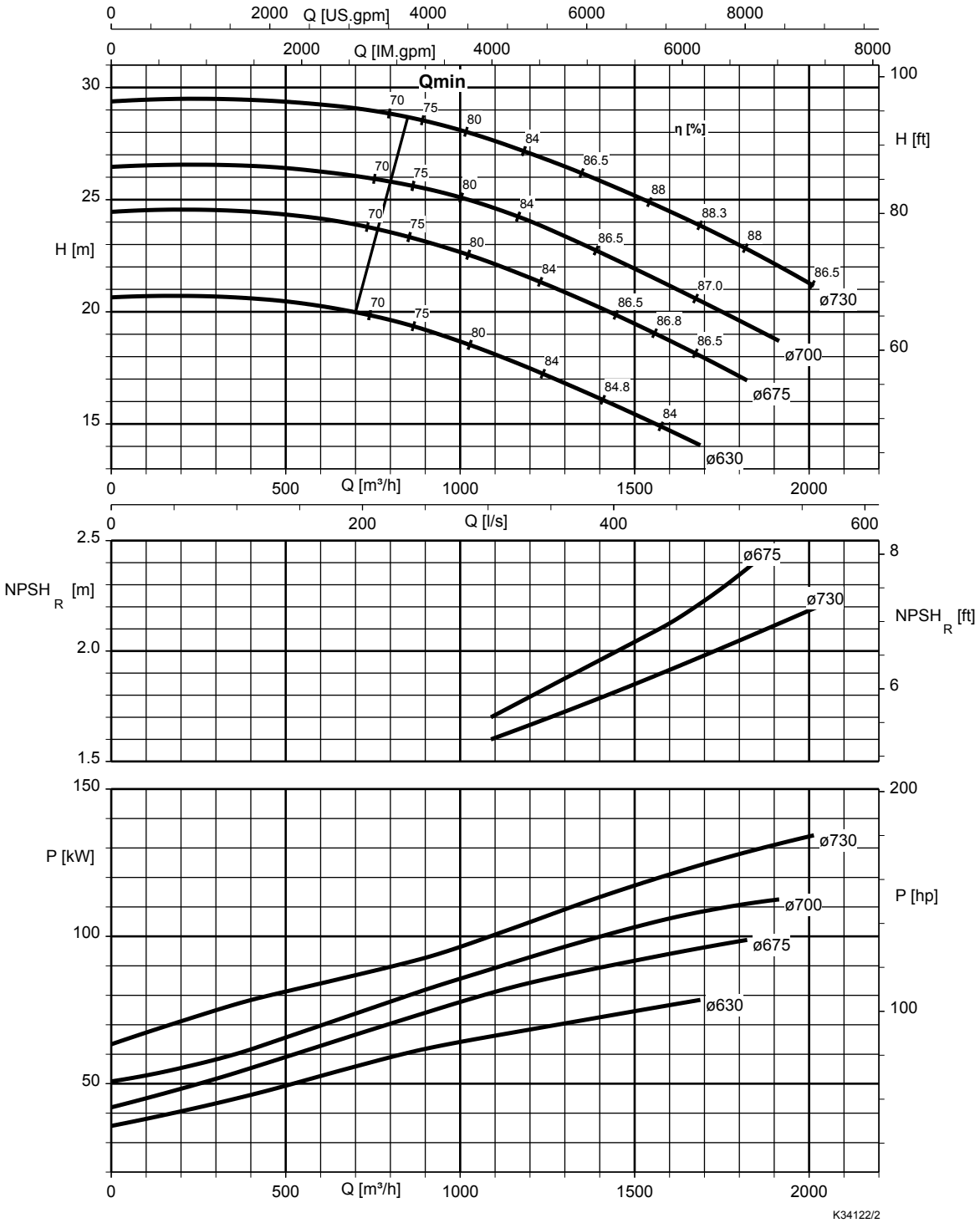
KWP K 400-400-583, n = 580 min⁻¹



KWP K 500-400-710, n = 580 min⁻¹



KWP K 500-400-713, n = 580 min⁻¹



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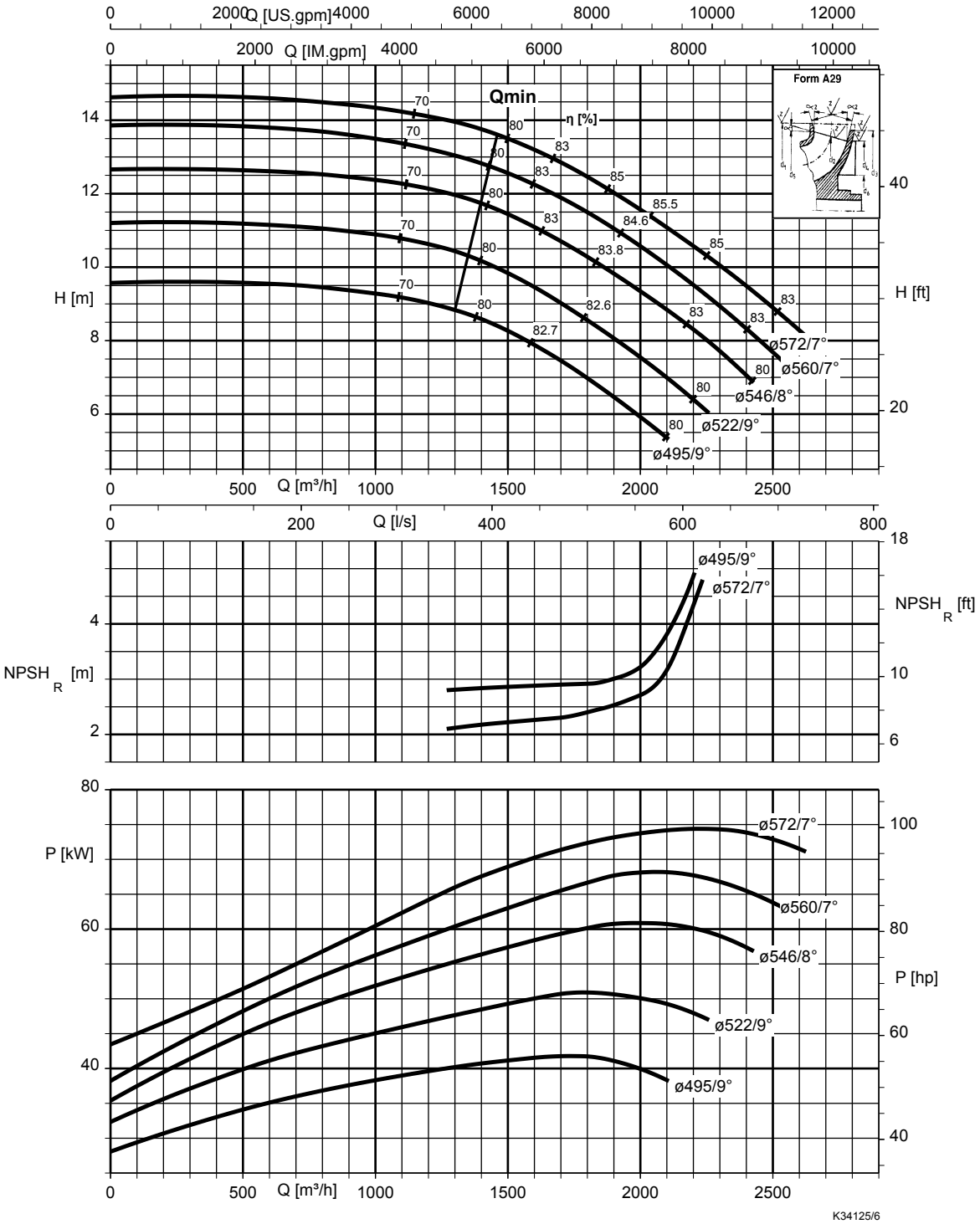
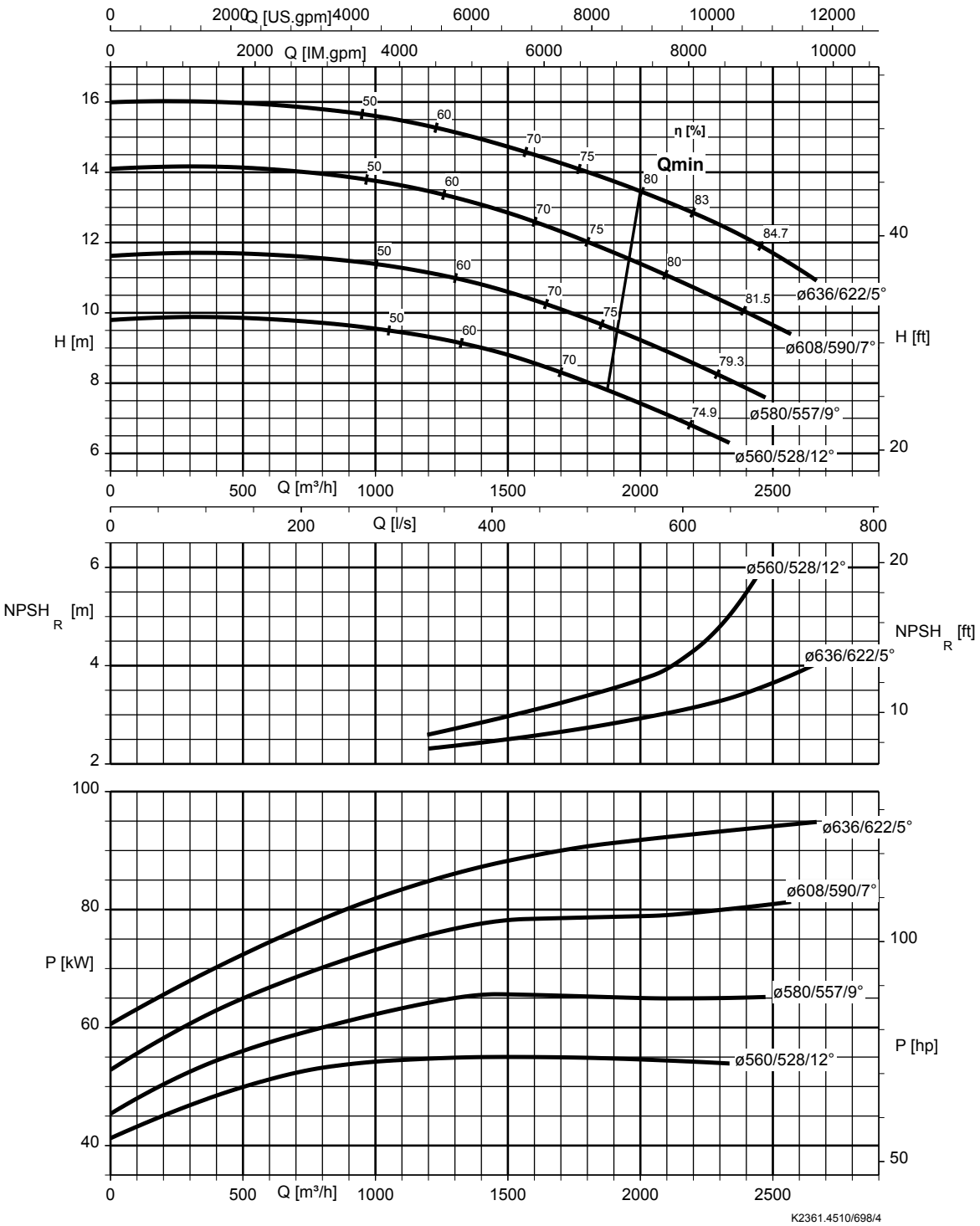
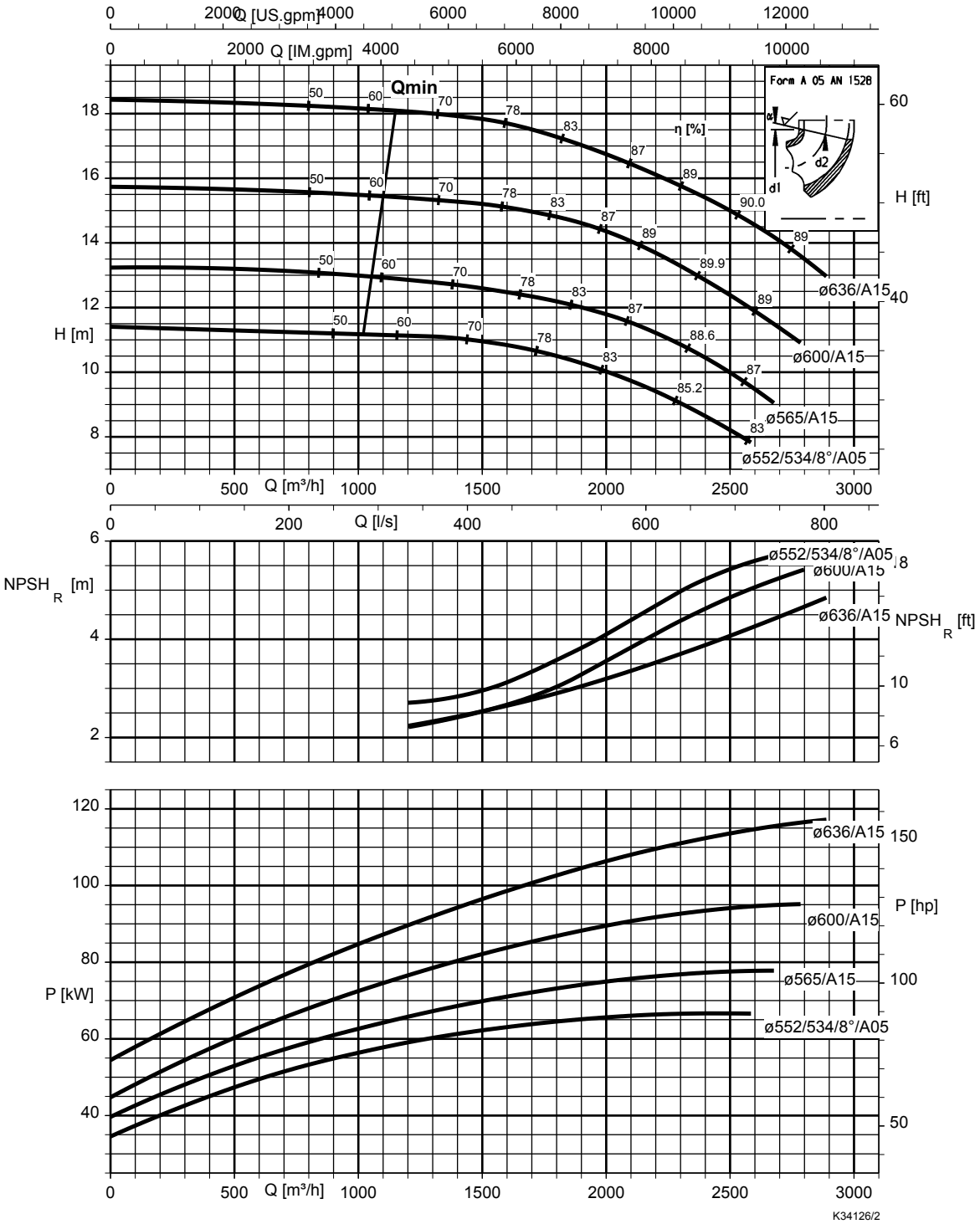


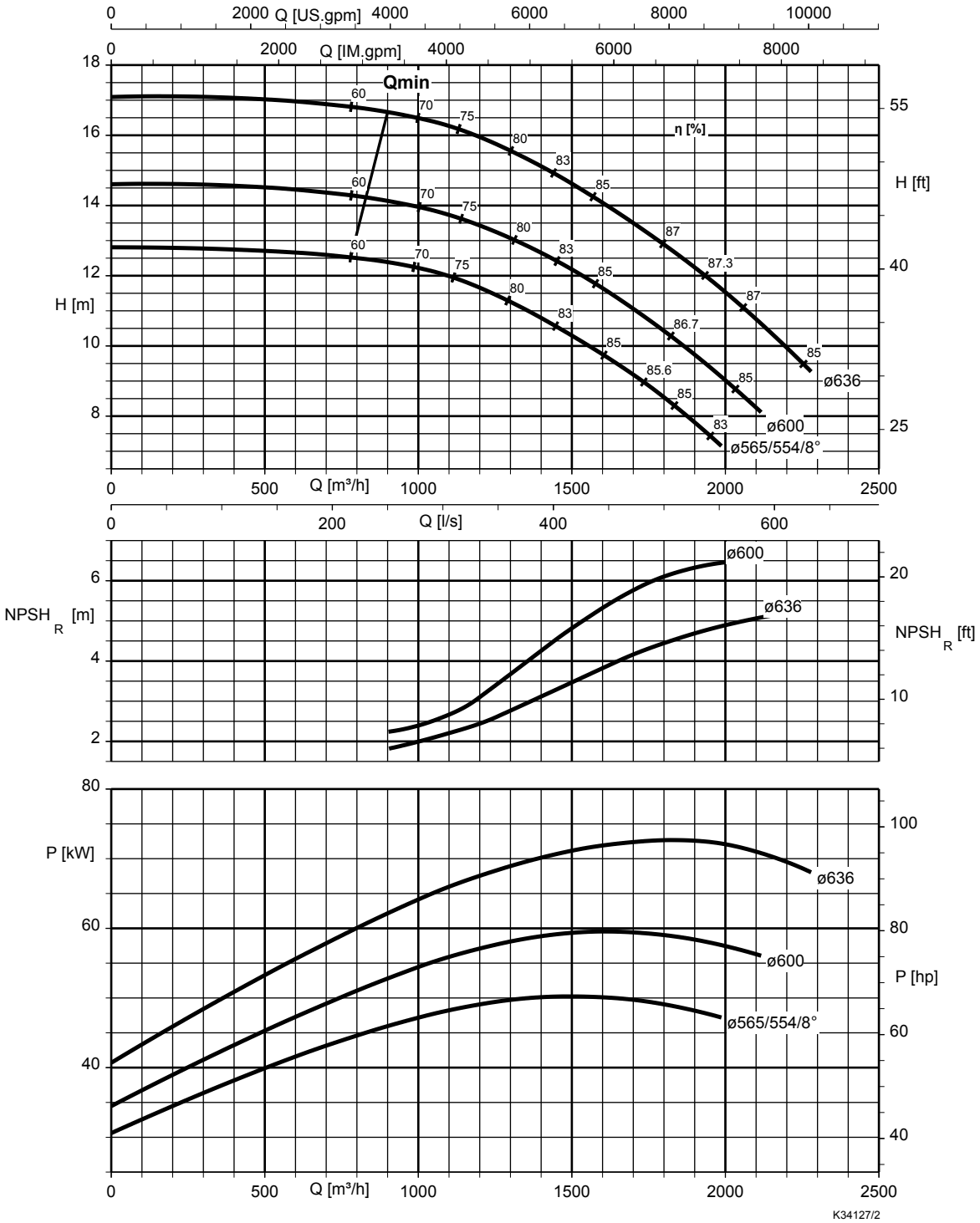
KWP K 500-500-630, n = 580 min⁻¹



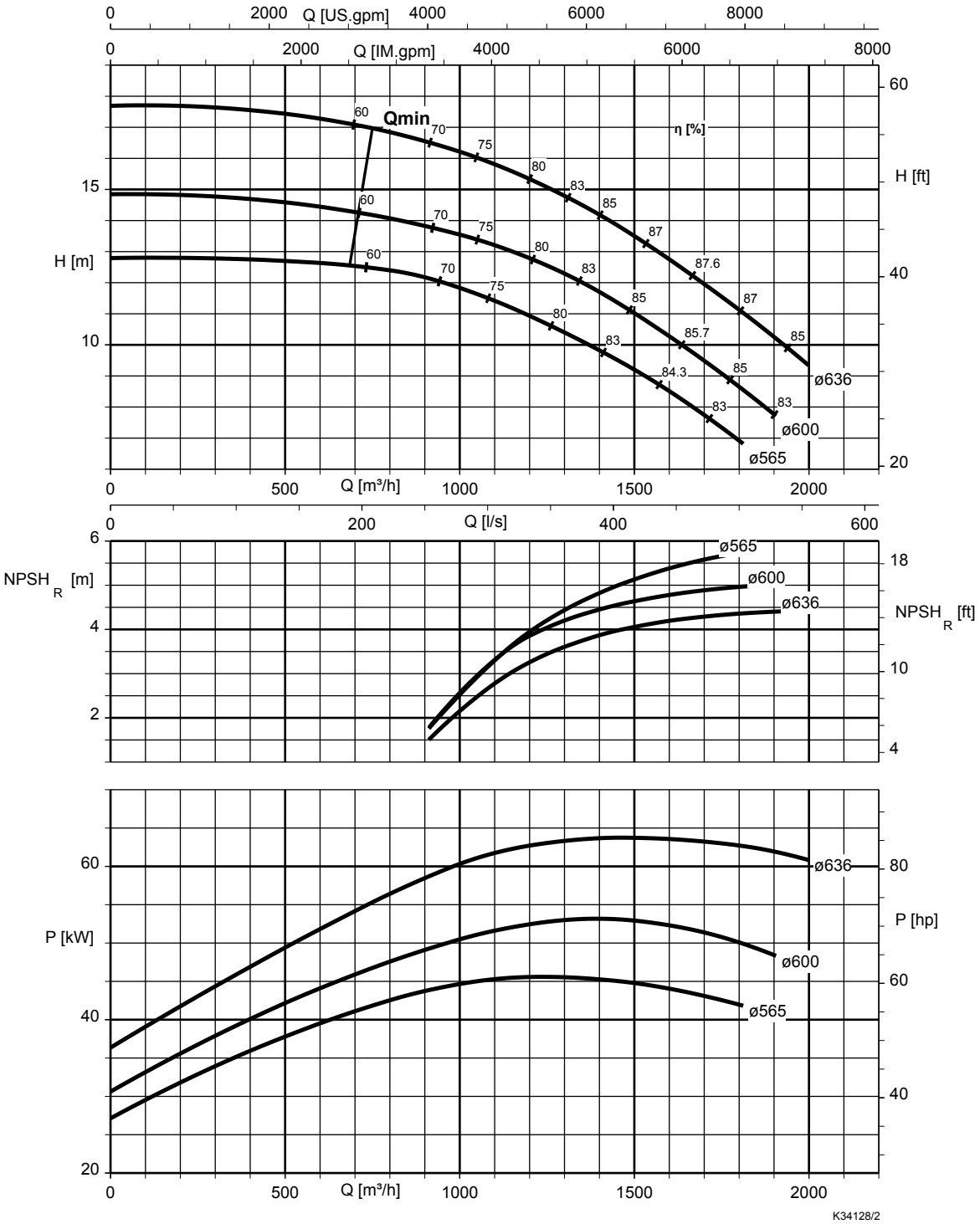
KWP K 500-500-633, n = 580 min⁻¹



KWP K 500-500-634, n = 580 min⁻¹



KWP K 500-500-635, n = 580 min⁻¹



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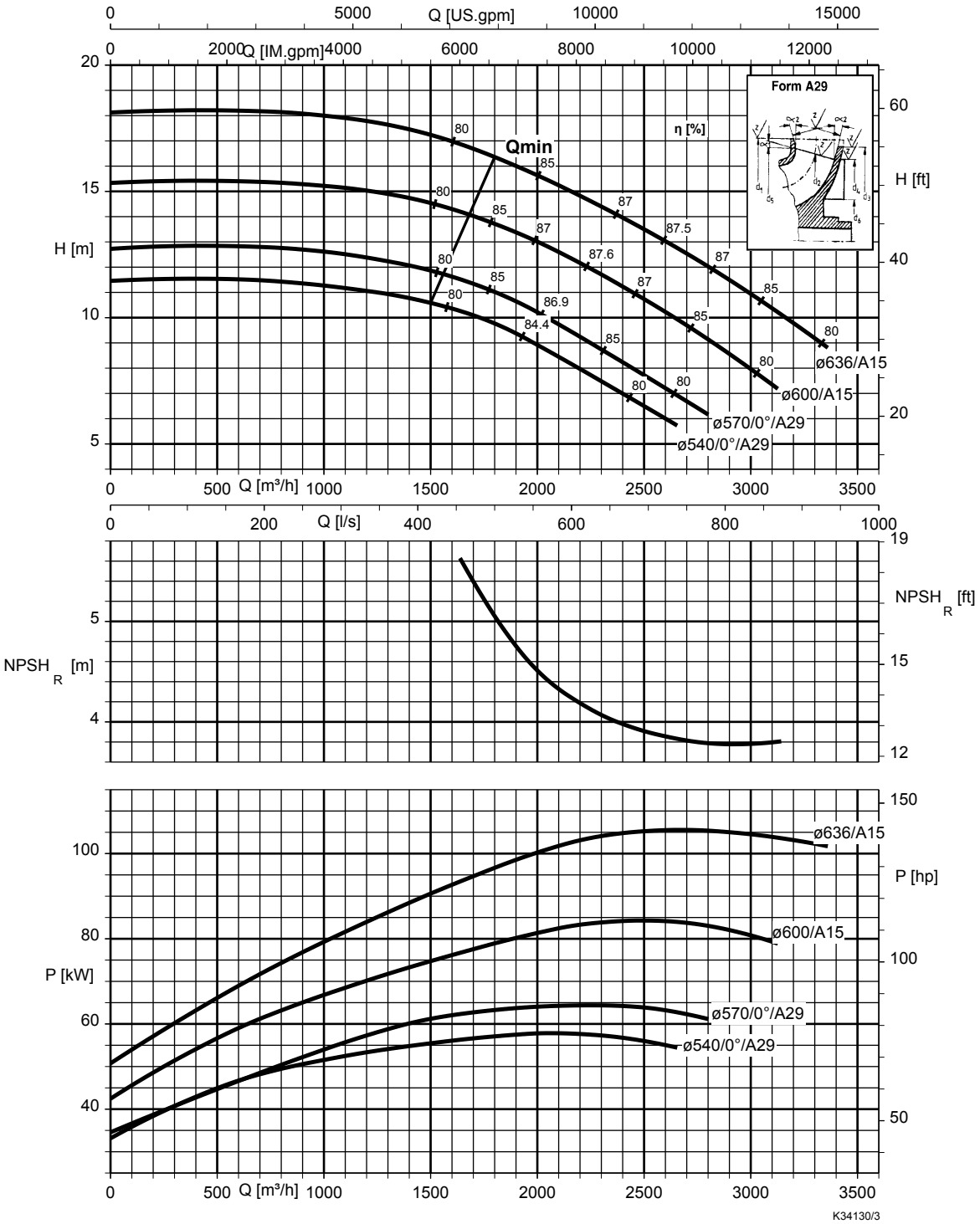
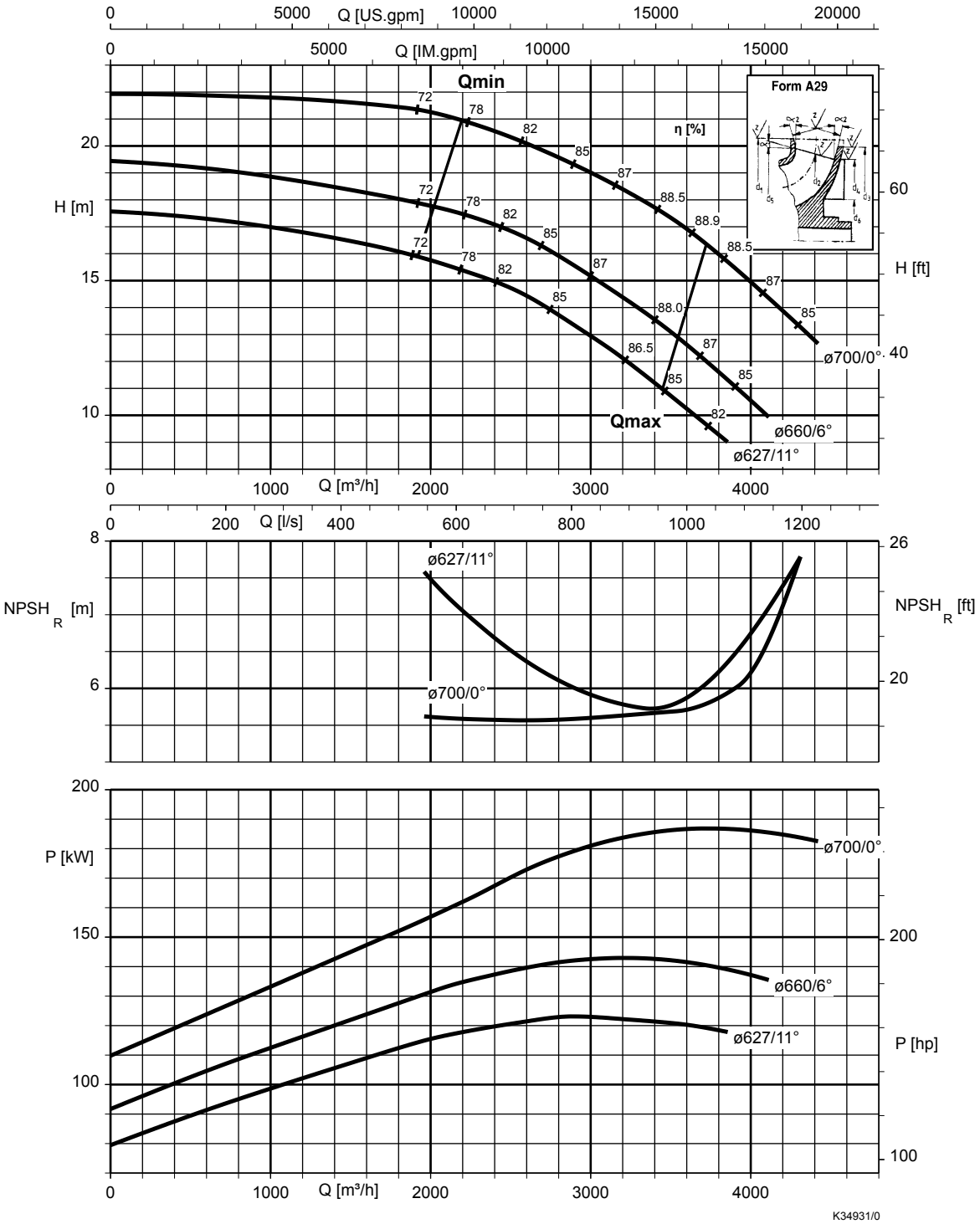
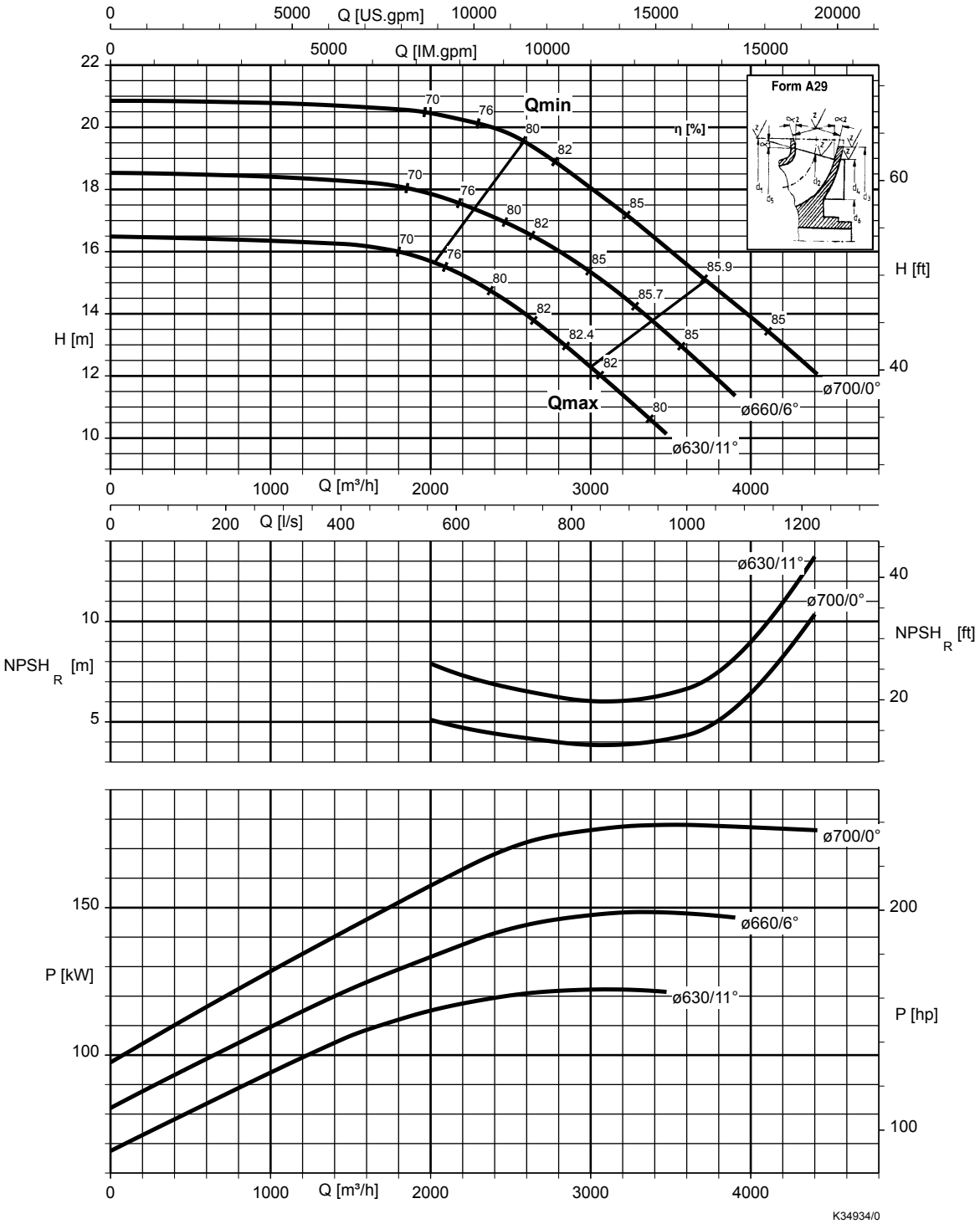


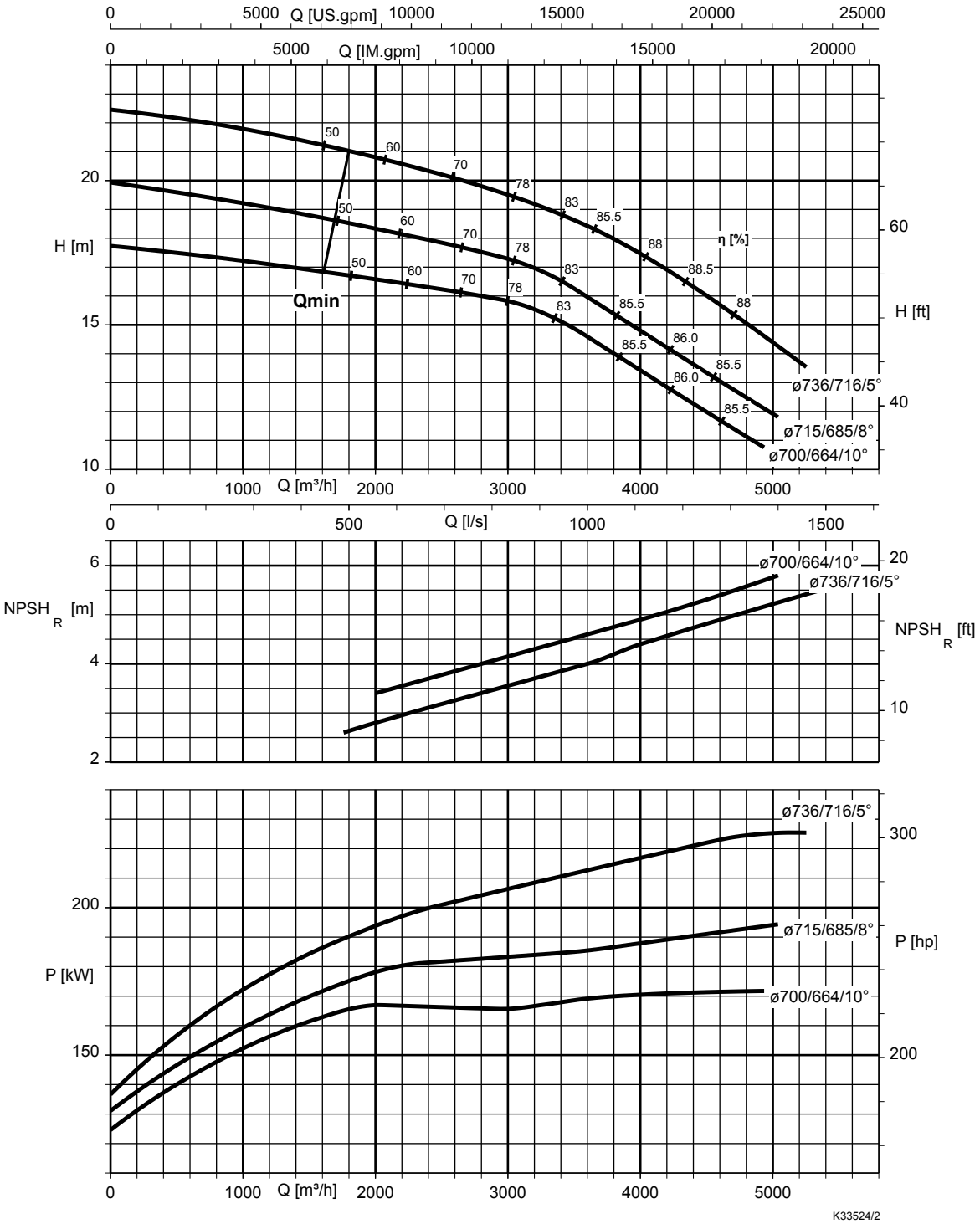
KWP K 600-600-663, n = 580 min⁻¹



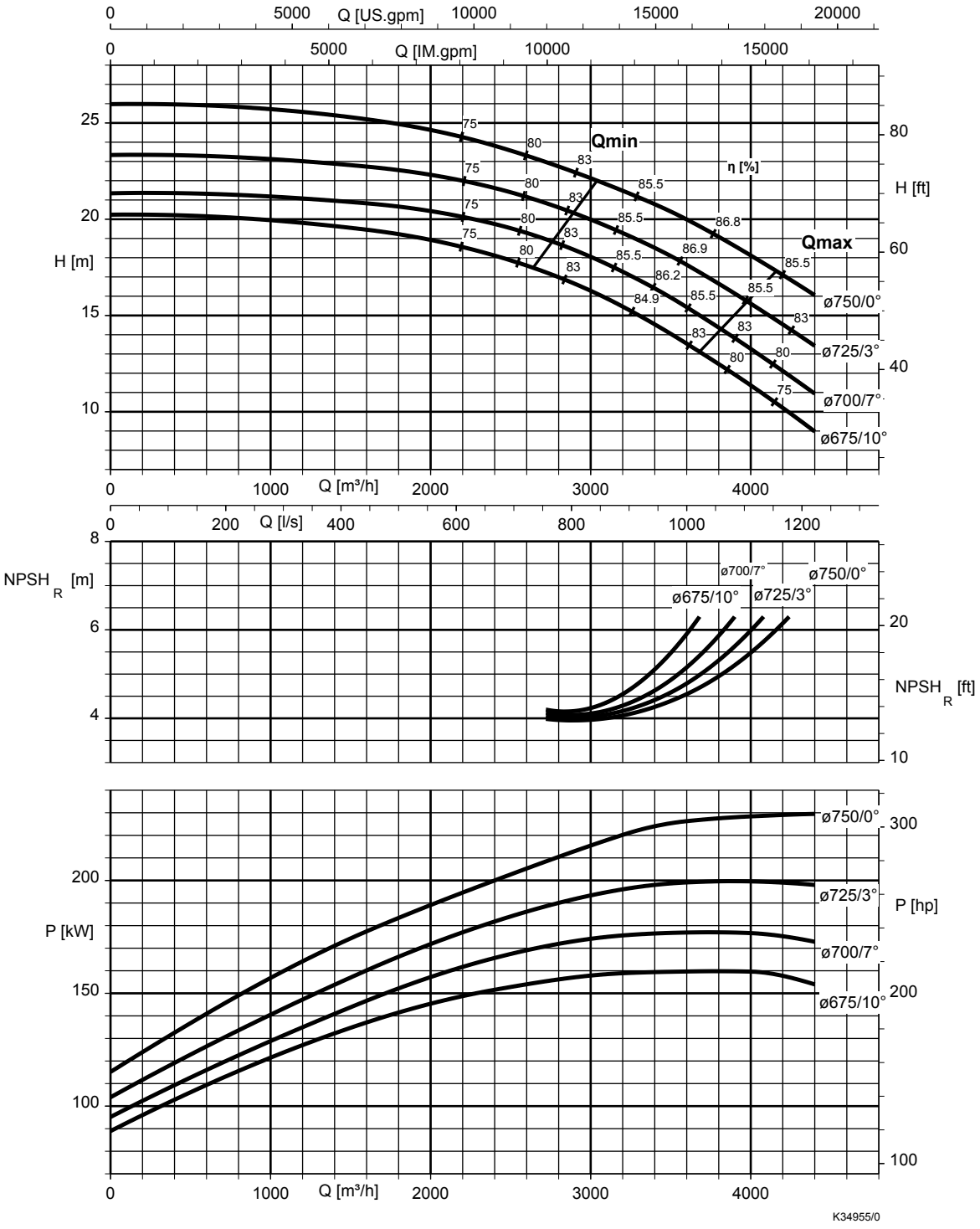
KWP K 600-600-669, n = 580 min⁻¹



KWP K 600-600-710, n = 580 min⁻¹



KWP K 600-600-753, n = 580 min⁻¹



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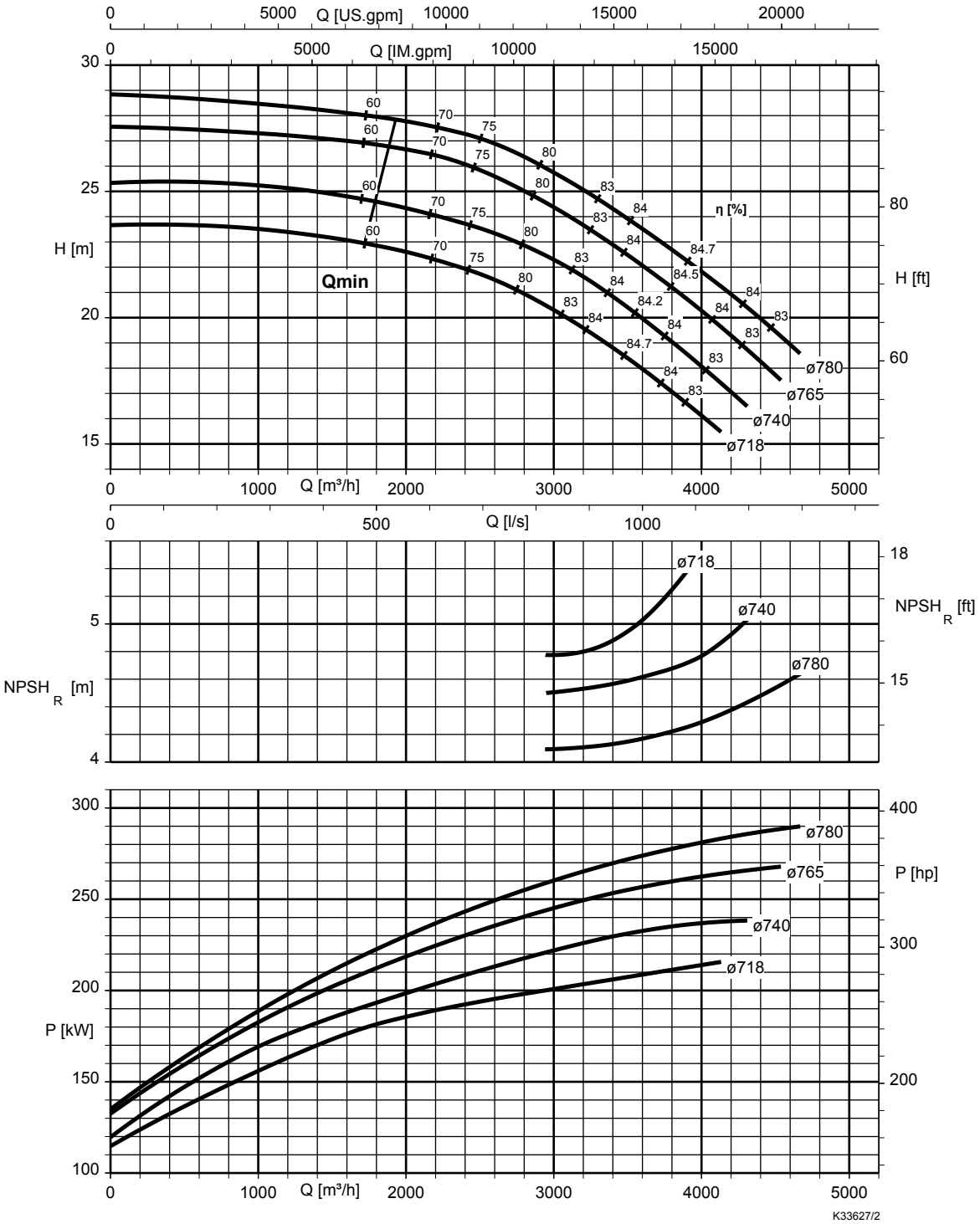
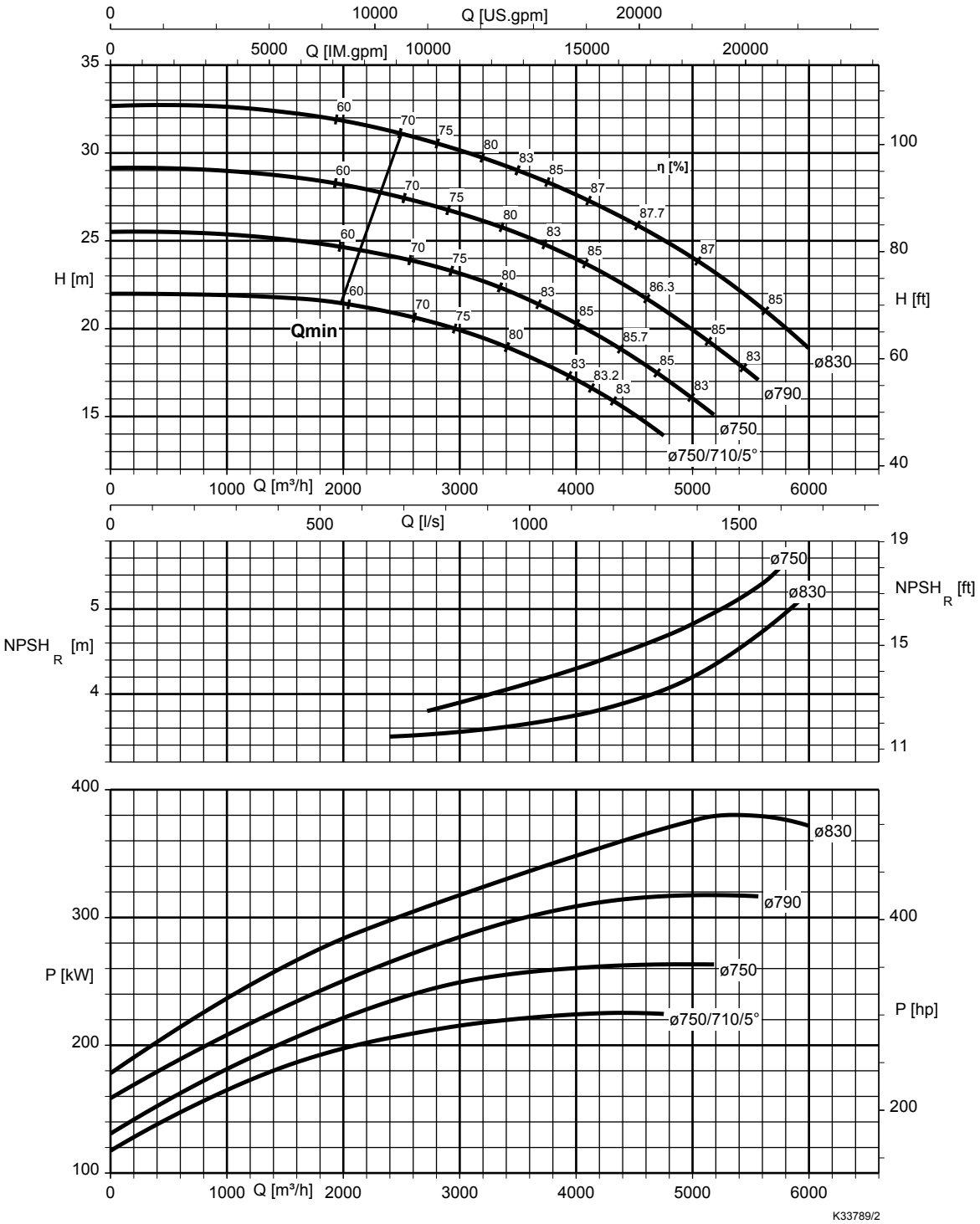
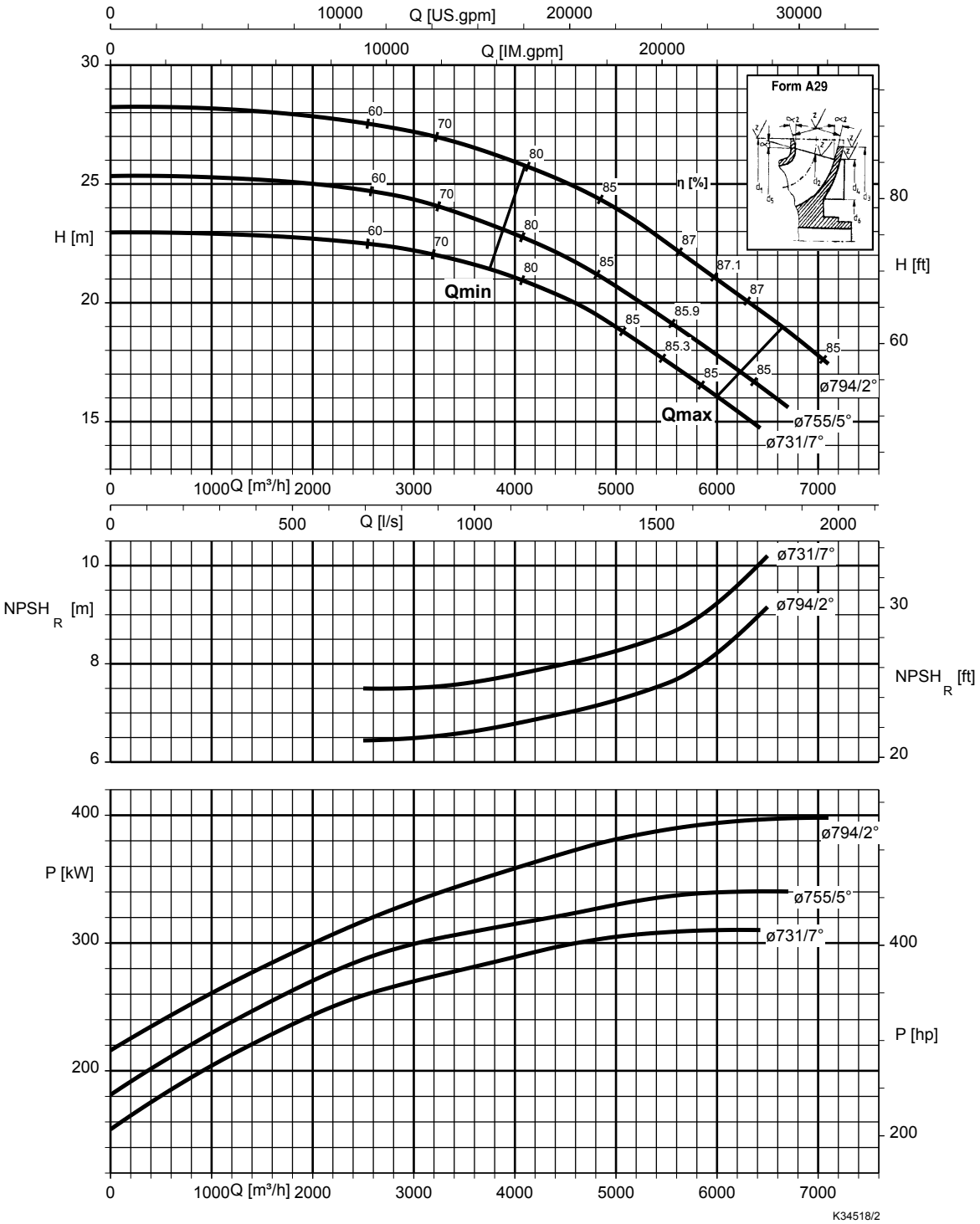


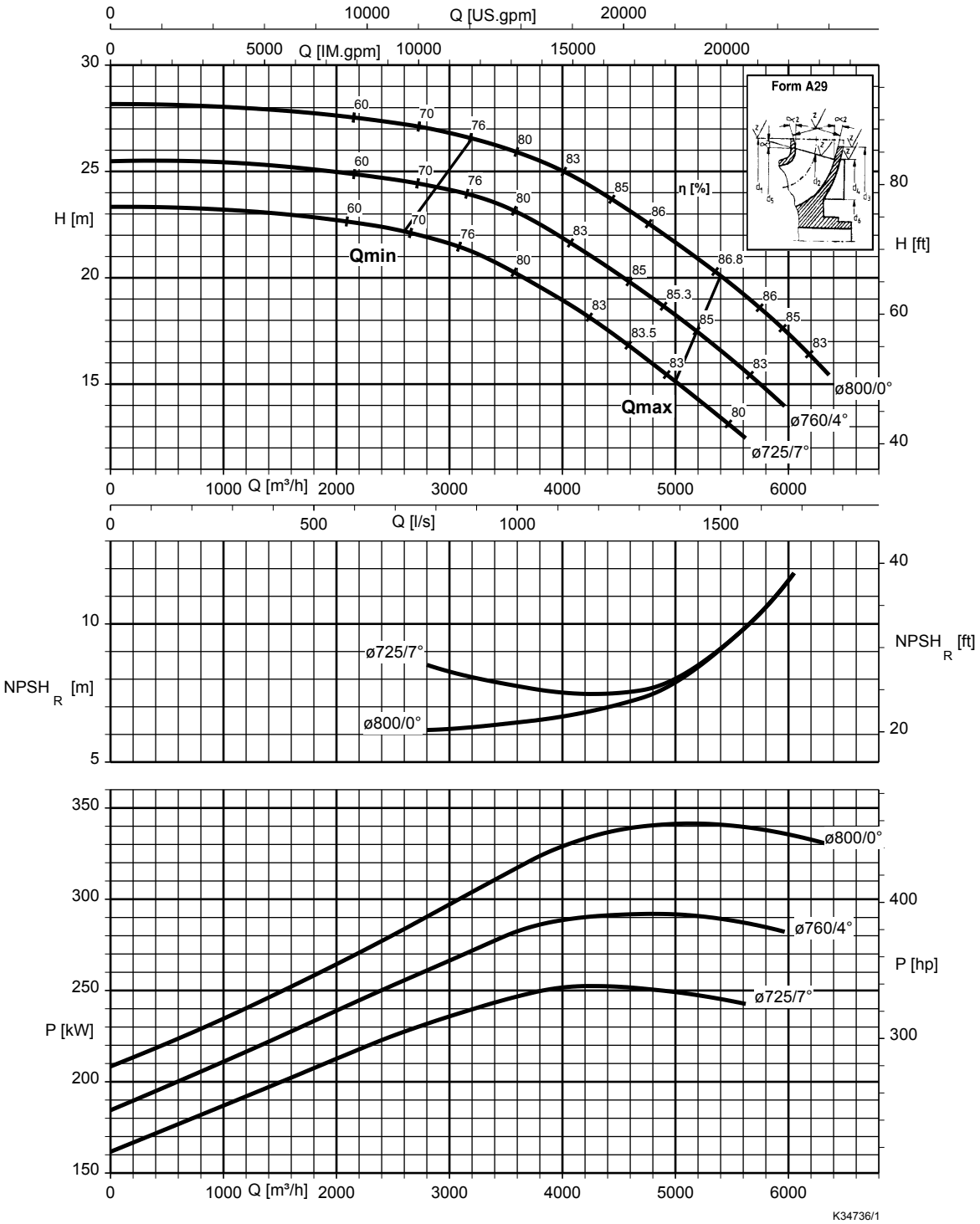
KWP K 600-600-813, n = 580 min⁻¹



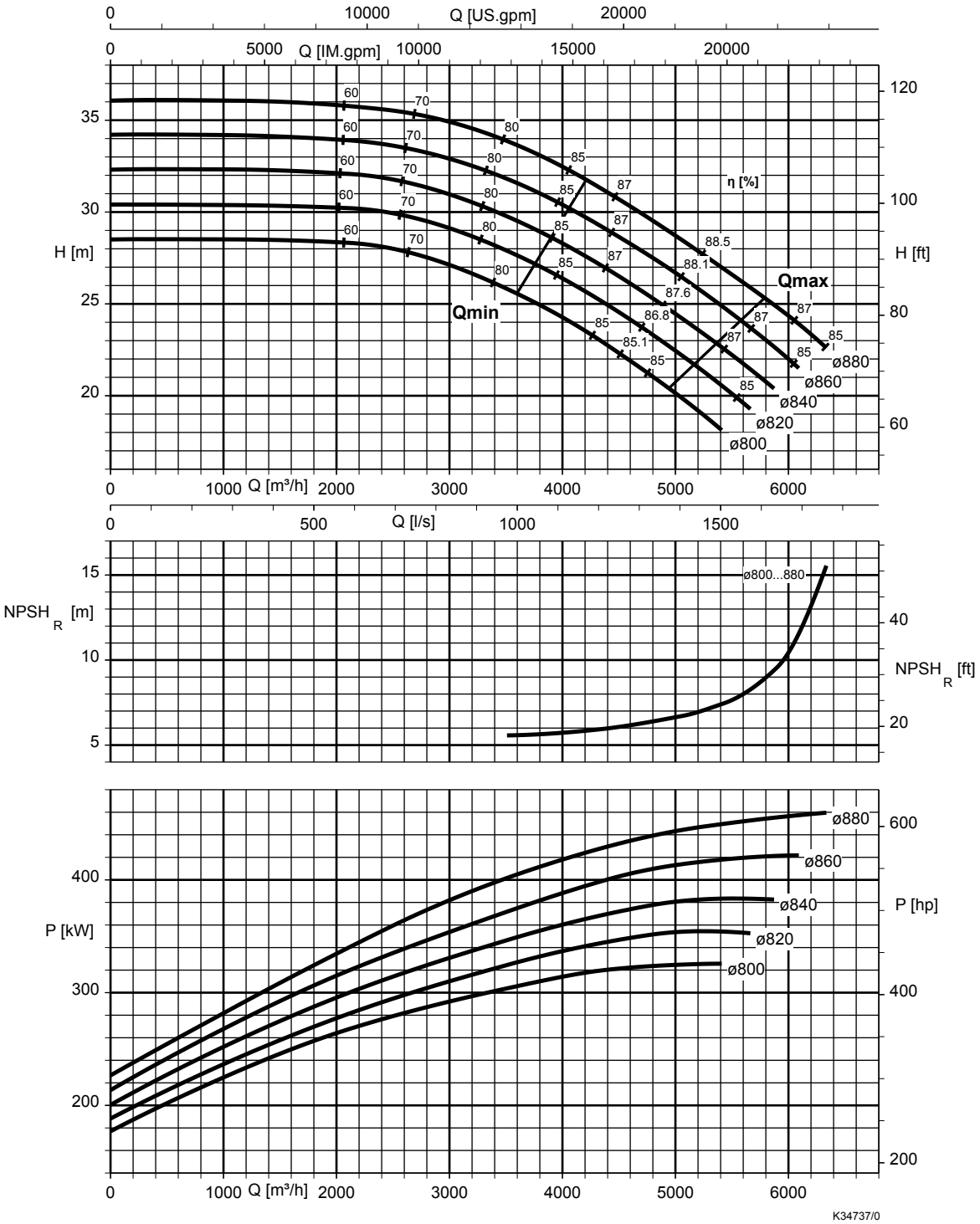
KWP K 600-600-824, n = 580 min⁻¹



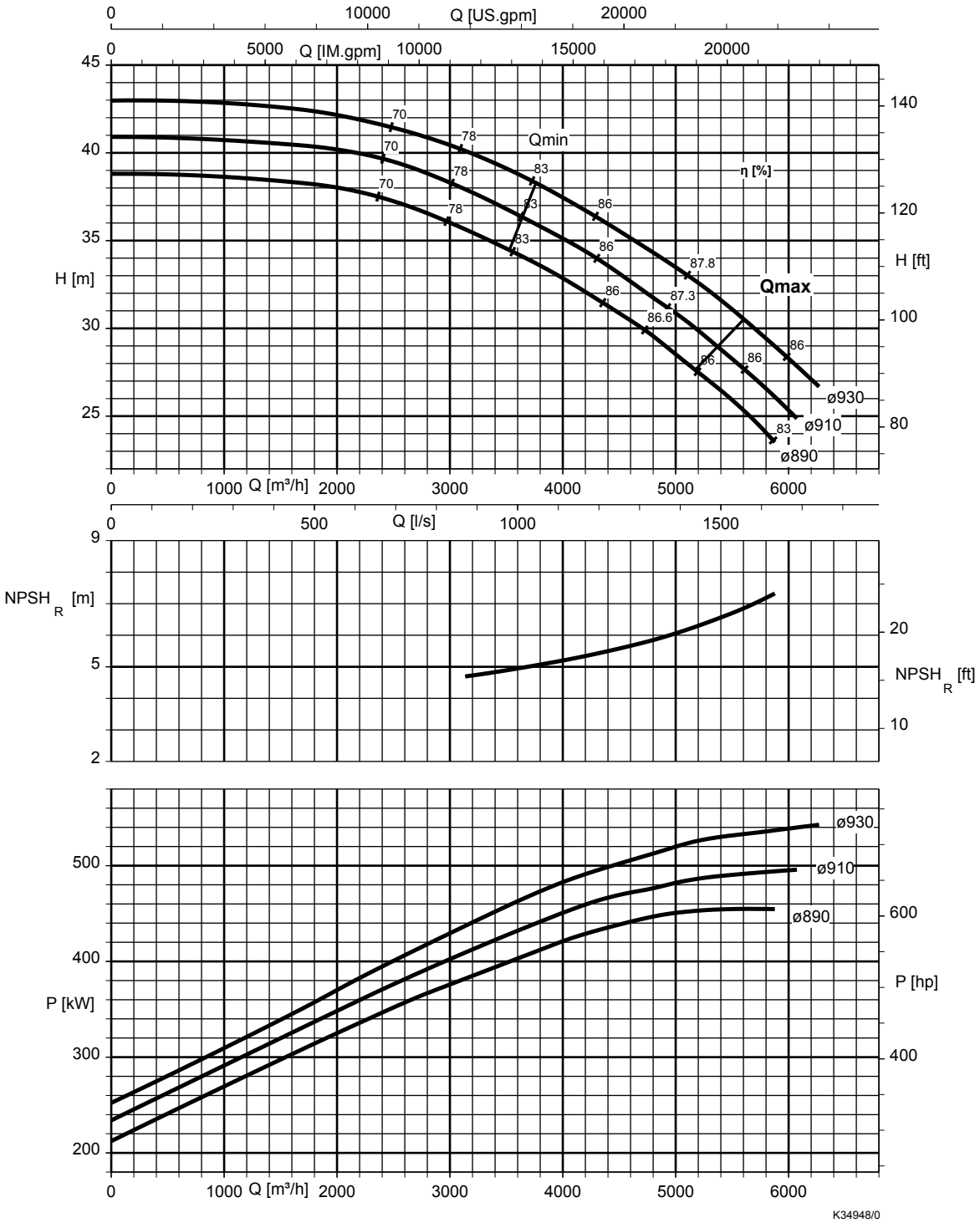
KWP K 600-600-825, n = 580 min⁻¹



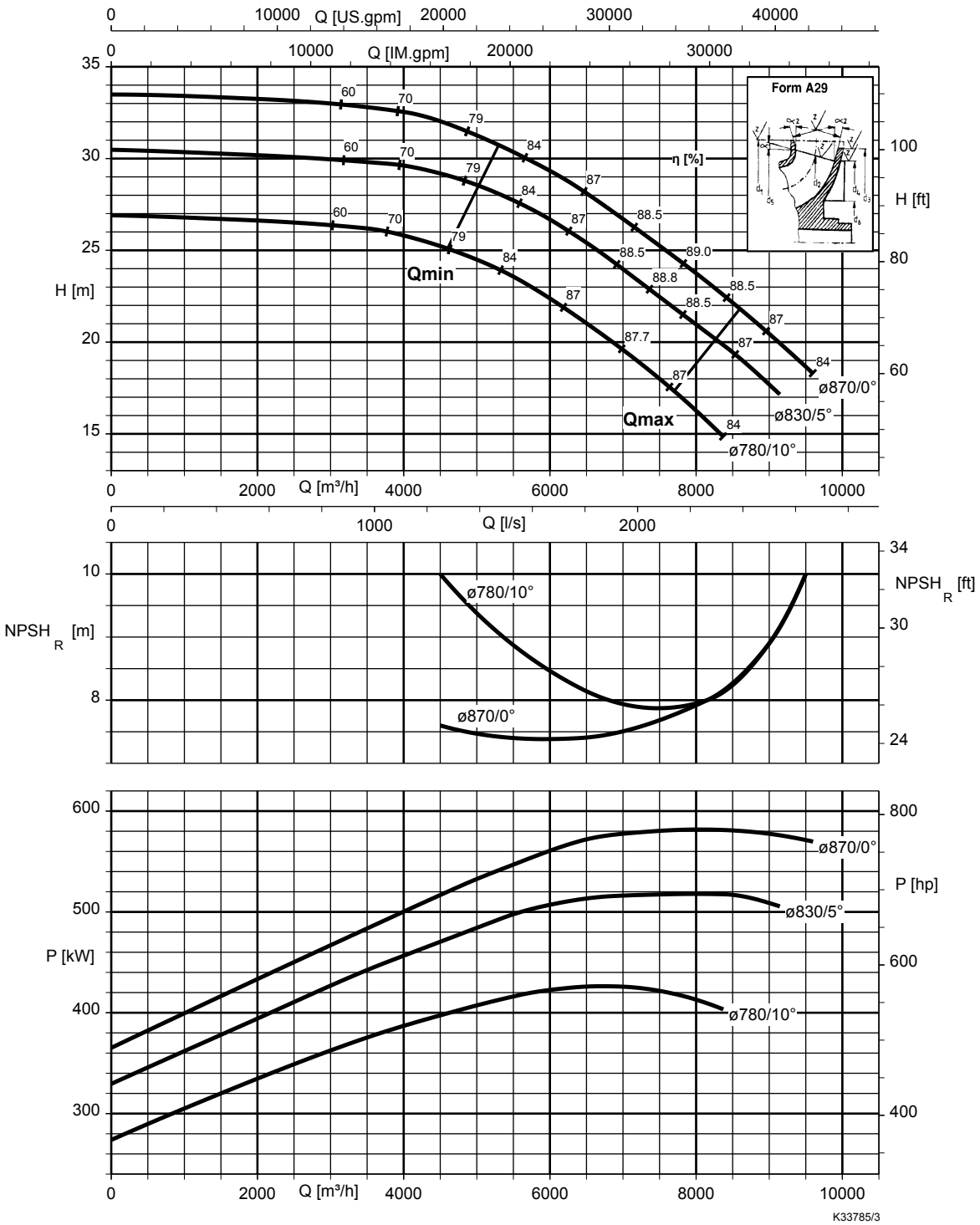
KWP K 600-600-873, n = 580 min⁻¹



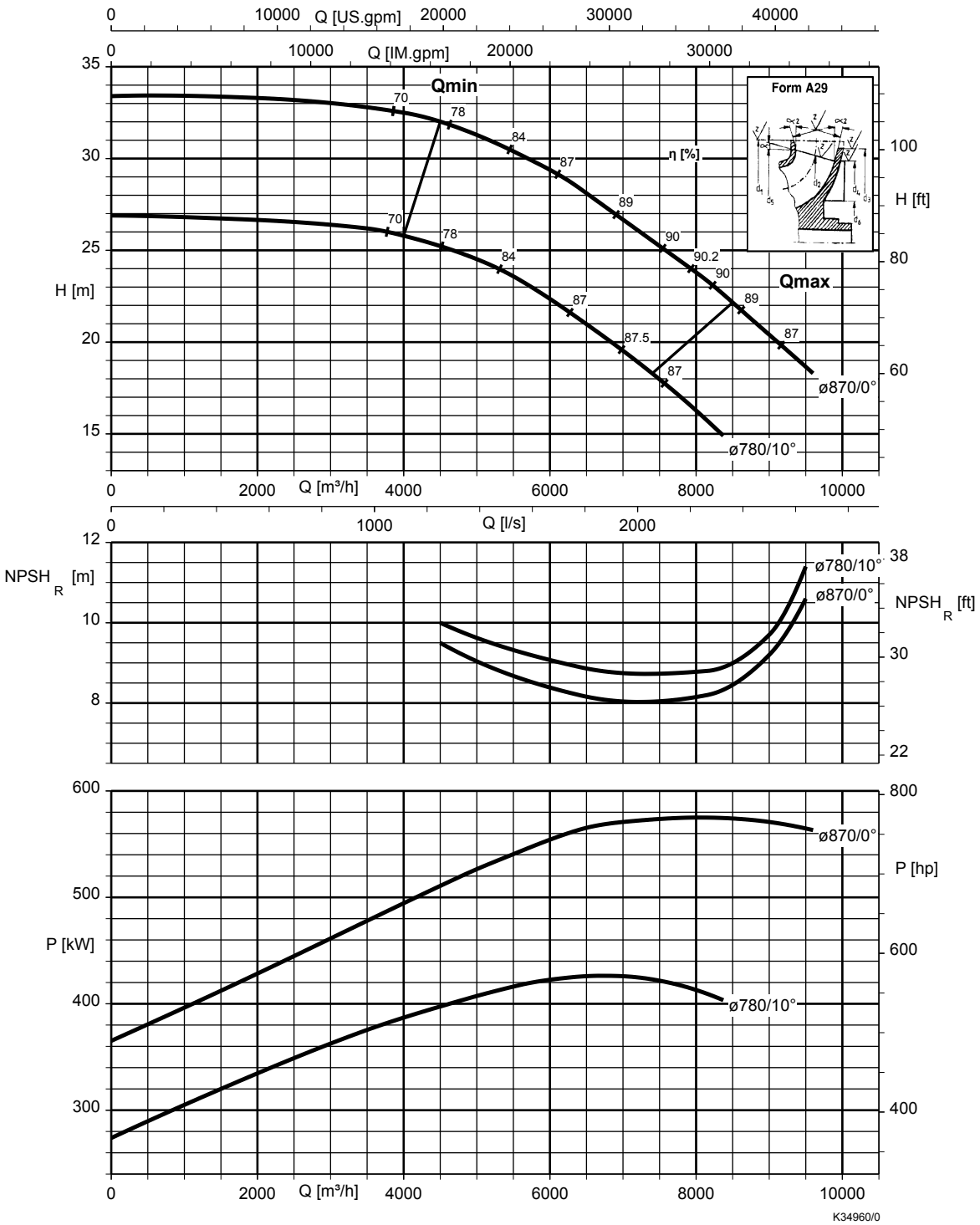
KWP K 600-600-923, n = 580 min⁻¹



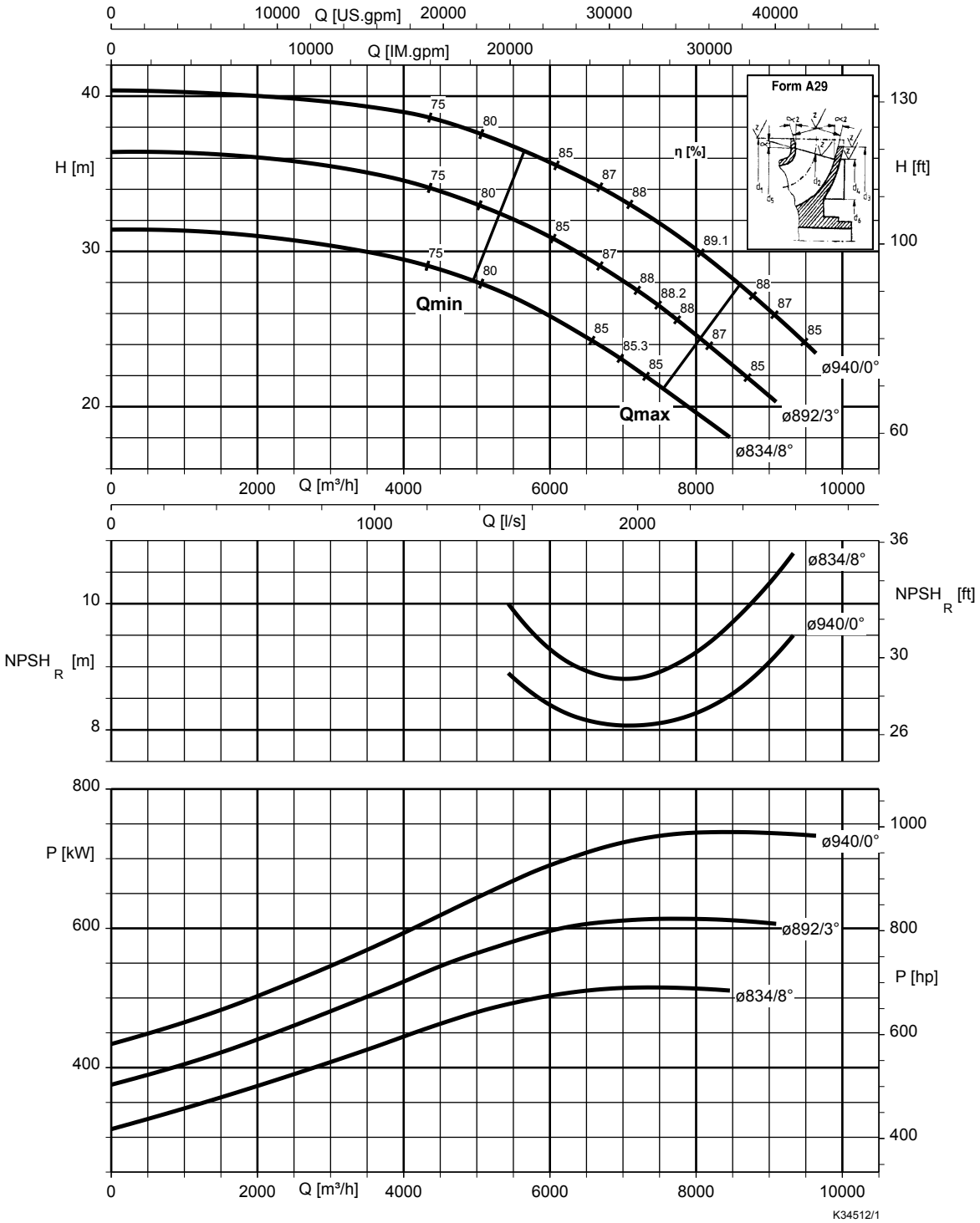
KWP K 700-700-923, n = 580 min⁻¹



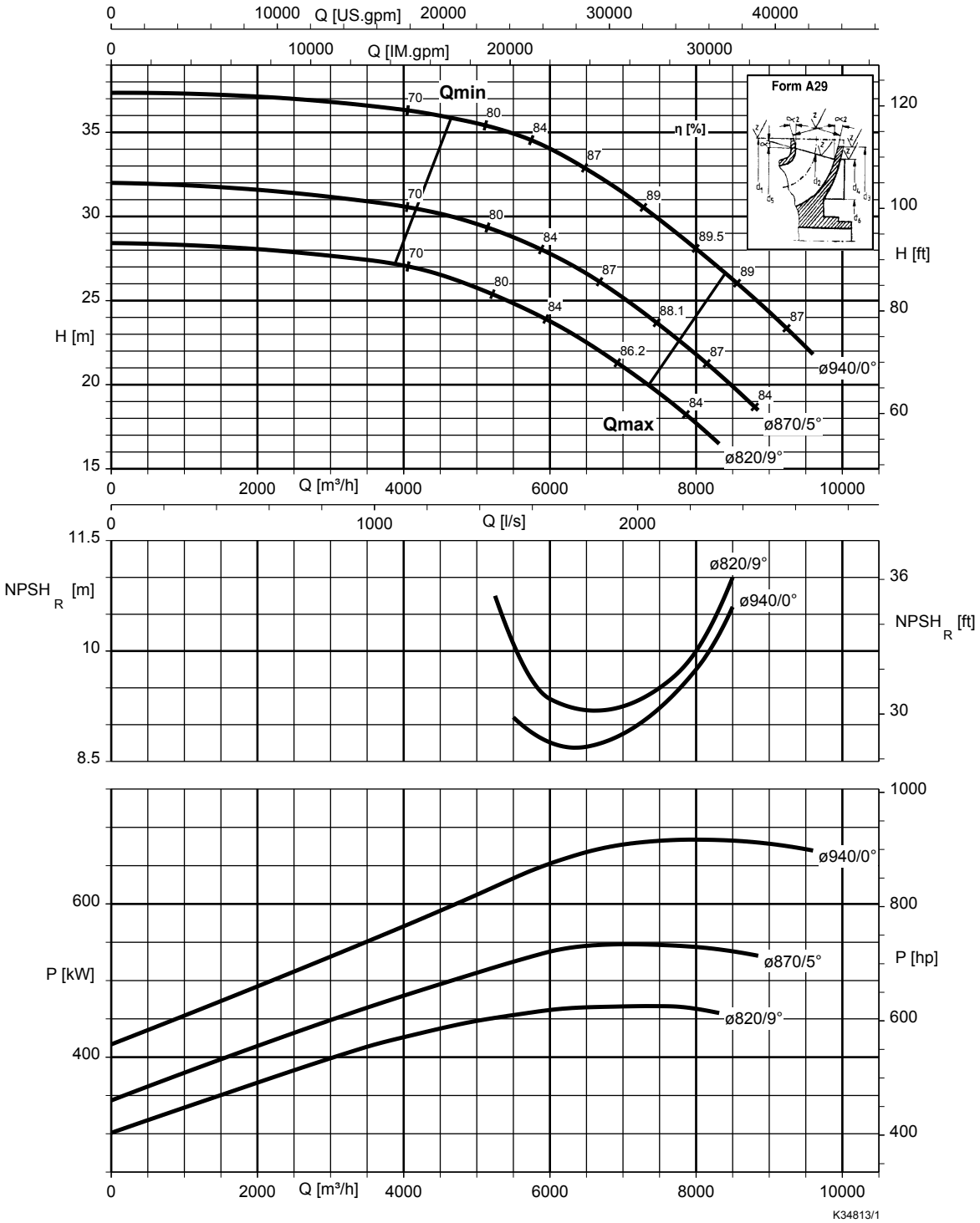
KWP K 700-700-929, n = 580 min⁻¹



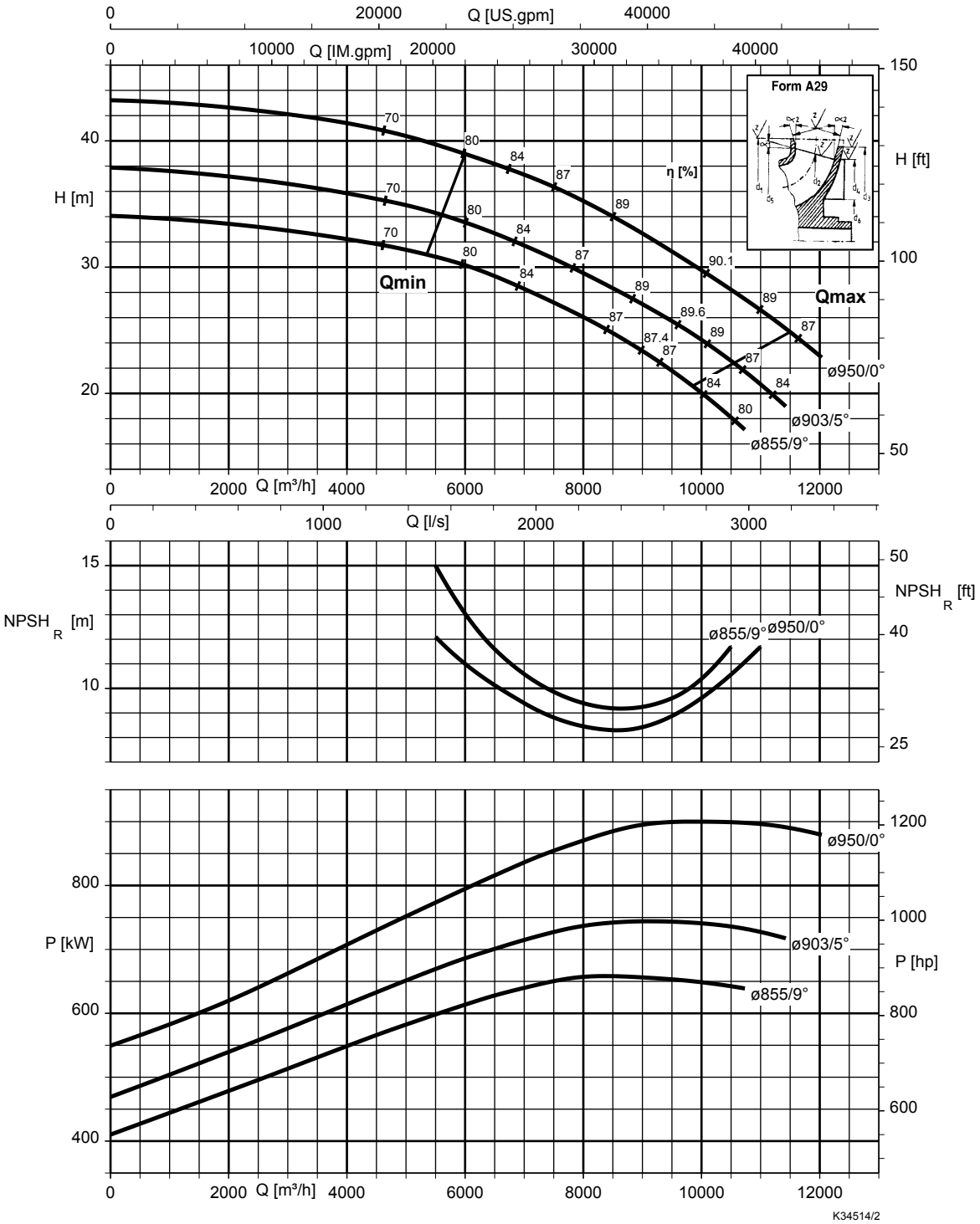
KWP K 800-700-953, n = 580 min⁻¹



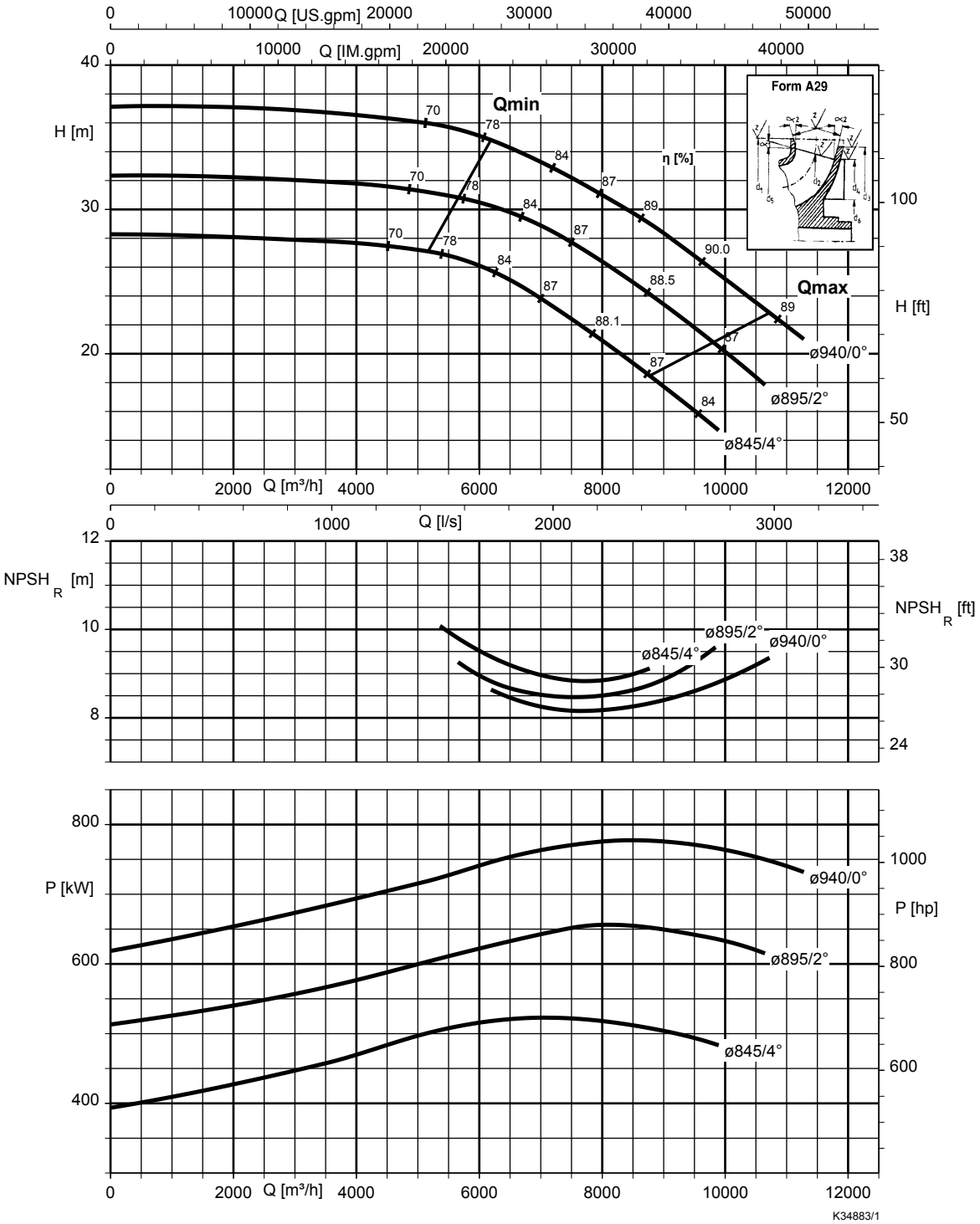
KWP K 800-700-959, n = 580 min⁻¹



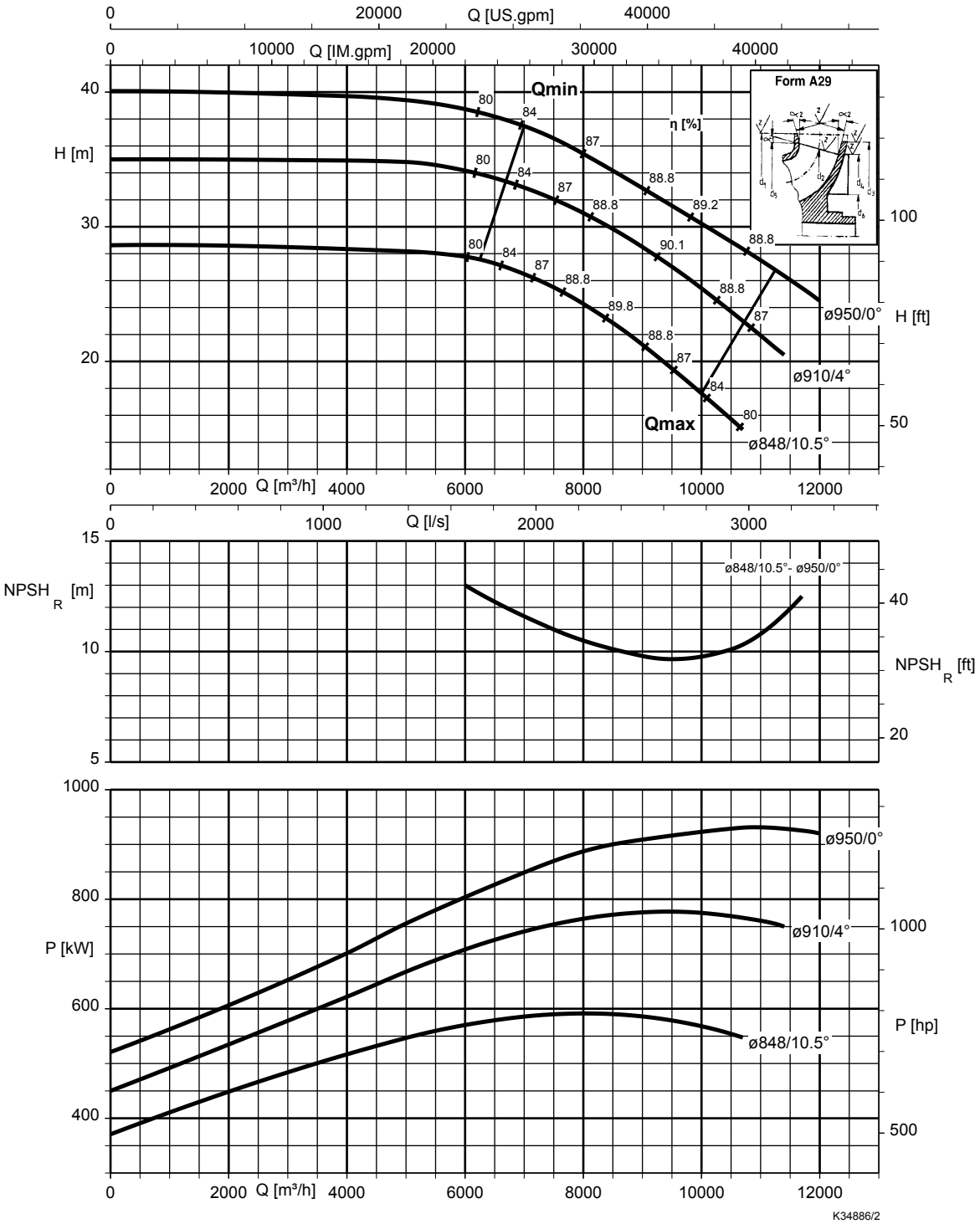
KWP K 800-800-934, n = 580 min⁻¹



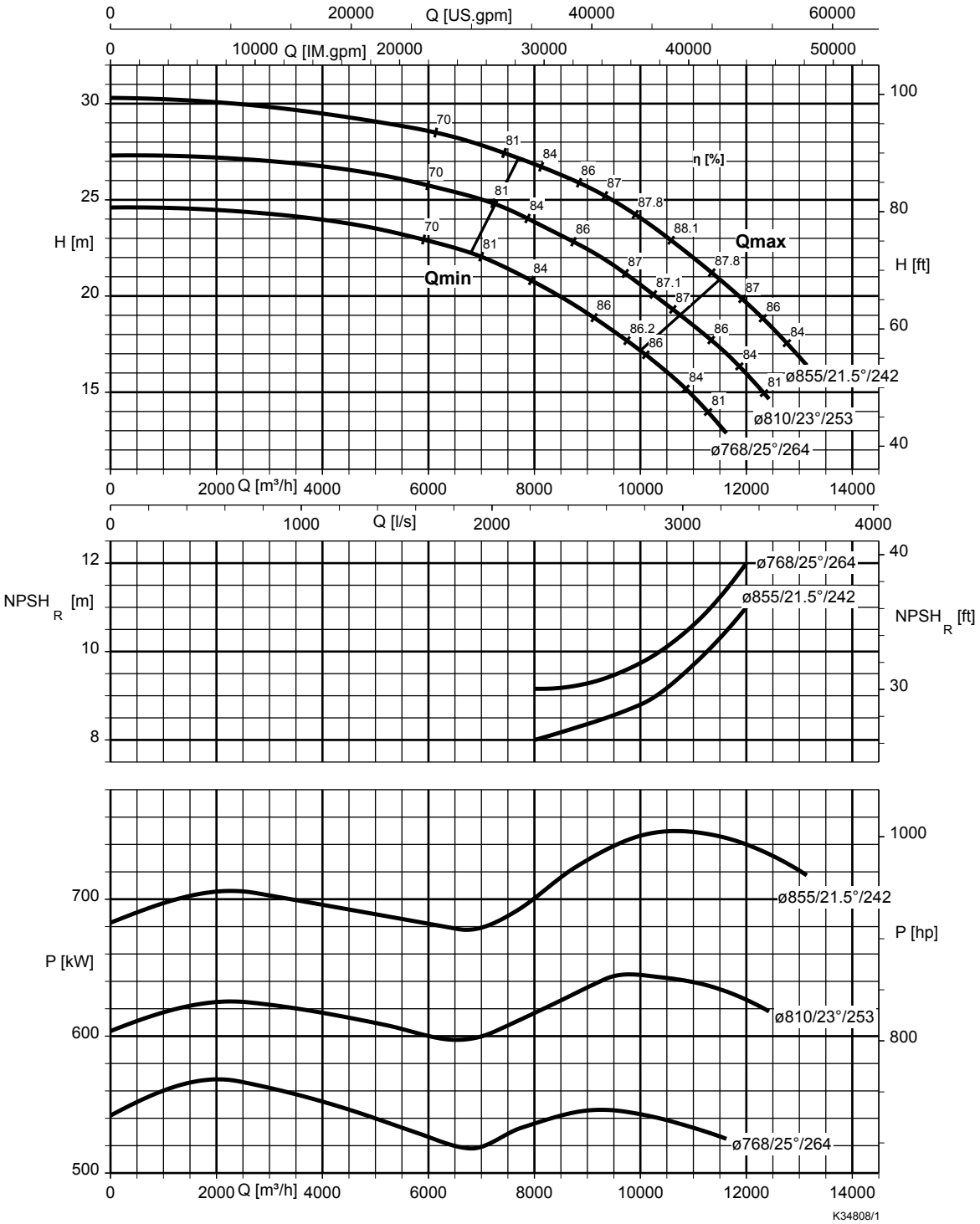
KWP K 800-800-935, n = 580 min⁻¹



KWP K 800-800-939, n = 580 min⁻¹



KWP K 800-900-883, n = 580 min⁻¹



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