

Chemienormpumpe

MegaCPK

mit Inducer

Kennlinienheft



Impressum

Kennlinienheft MegaCPK

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MegaCPK Inducer 125-080-315, n = 1160 min ⁻¹	128
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MegaCPK Inducer 125-100-200, n = 1160 min ⁻¹	131
MegaCPK Inducer 125-100-250, n = 1160 min ⁻¹	132
MegaCPK Inducer 125-100-315, n = 1160 min ⁻¹	133
MegaCPK Inducer 125-100-400, n = 1160 min ⁻¹	134
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MegaCPK Inducer 150-125-250, n = 1160 min ⁻¹	136
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Kreiselpumpen mit Wellendichtung

Chemienormpumpen

MegaCPK



Allgemein

Abnahmeklasse: Kennlinien gemäß ISO 9906-Klasse 2B

NPSH-Werte

Die in den Kennlinien angegebenen NPSH-Messwerte entsprechen einem Förderhöhenabfall von 3%.

NPSH-Wert im Teillastgebiet

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

Dichte des Fördermediums

Die Förderhöhen und Leistungsangaben gelten für Fördermedien mit einer Dichte $\rho = 1,0 \text{ kg/dm}^3$ und einer kinematischen Viskosität ν bis max. $20 \text{ mm}^2/\text{s}$. Ist die Dichte $\neq 1,0$, muss die Leistungsangabe mit ρ multipliziert werden. Bei Viskositäten $>20 \text{ mm}^2/\text{s}$ müssen entsprechende Kaltwasserdaten berechnet werden und der Einfluss auf die Pumpenleistung ermittelt werden.

Reibleistung

Bei bestimmten Ausführungen (verstärkte Lagerung, bestimmte Wellendichtungen) müssen Reibleistungen berücksichtigt werden und als Zusatzleistung im Datenblatt angegeben werden.

Abwertefaktoren

Die Kennlinien gelten für Pumpen mit Gusseisen- bzw. Bronze-Laufrädern. Bei Verwendung eines Laufrads aus einem Stahlgusswerkstoff müssen Wirkungsgrad und Leistung bei betroffenen Baugrößen mit den in den Kennlinien angegebenen Abwertefaktoren korrigiert werden.

Abdrehen des Laufrads

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

Einsatzgrenzen

Werkstoff- oder ausführungsbedingten Einsatzgrenzen beachten.

Baugrößenübersicht

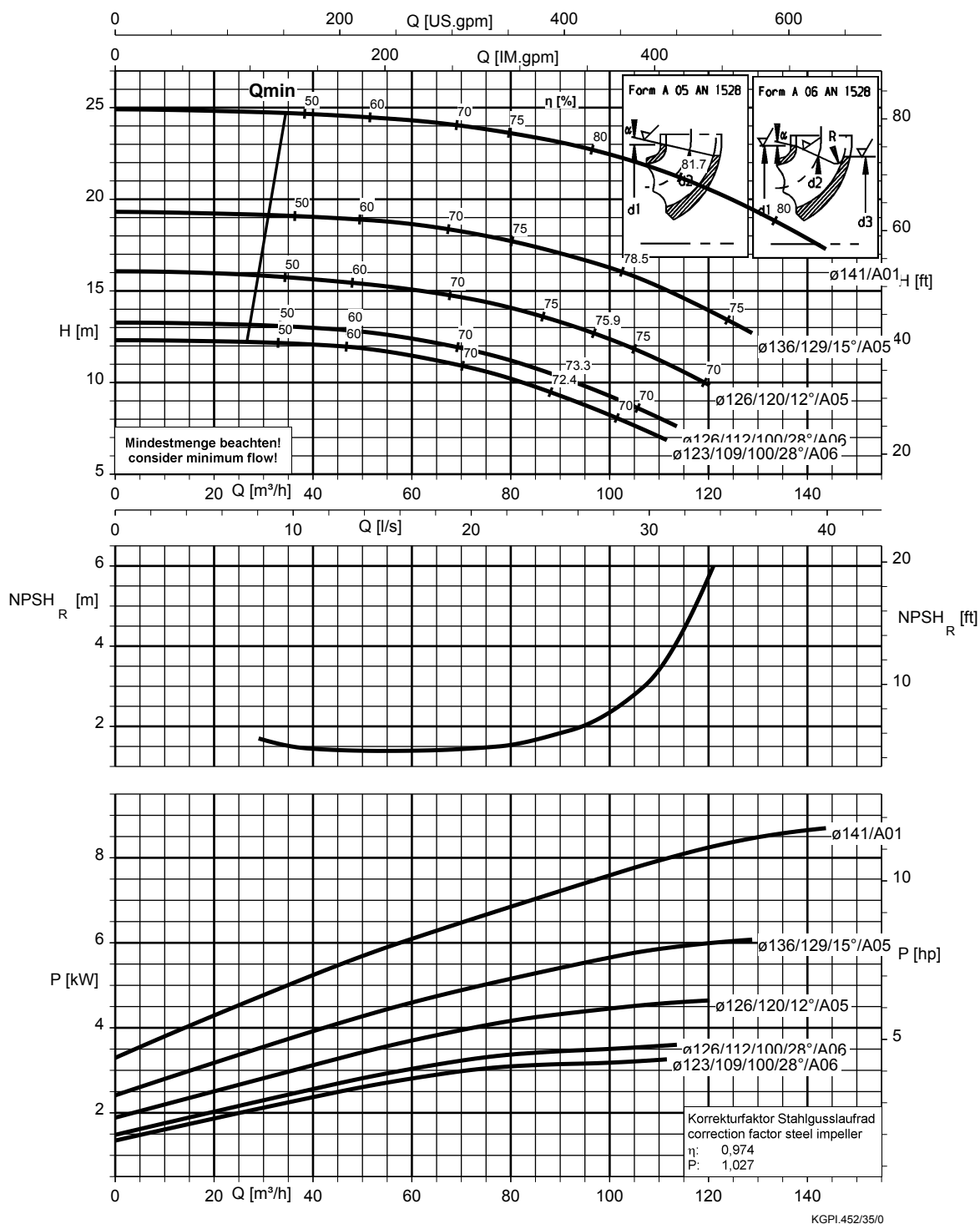
Baugrößenübersicht

Baugröße	2900 min ⁻¹	1450 min ⁻¹	960 min ⁻¹	3500 min ⁻¹	1750 min ⁻¹	1160 min ⁻¹
100-065-125	(⇒ Seite 8)	(⇒ Seite 22)	(⇒ Seite 50)	(⇒ Seite 78)	(⇒ Seite 92)	(⇒ Seite 120)
100-065-160	(⇒ Seite 9)	(⇒ Seite 23)	(⇒ Seite 51)	(⇒ Seite 79)	(⇒ Seite 93)	(⇒ Seite 121)
100-065-200	(⇒ Seite 10)	(⇒ Seite 24)	(⇒ Seite 52)	(⇒ Seite 80)	(⇒ Seite 94)	(⇒ Seite 122)
100-065-250	(⇒ Seite 11)	(⇒ Seite 25)	(⇒ Seite 53)	(⇒ Seite 81)	(⇒ Seite 95)	(⇒ Seite 123)
100-065-315	(⇒ Seite 12)	(⇒ Seite 26)	(⇒ Seite 54)	(⇒ Seite 82)	(⇒ Seite 96)	(⇒ Seite 124)
125-080-160	(⇒ Seite 13)	(⇒ Seite 27)	(⇒ Seite 55)	(⇒ Seite 83)	(⇒ Seite 97)	(⇒ Seite 125)
125-080-200	(⇒ Seite 14)	(⇒ Seite 28)	(⇒ Seite 56)	(⇒ Seite 84)	(⇒ Seite 98)	(⇒ Seite 126)
125-080-250	(⇒ Seite 15)	(⇒ Seite 29)	(⇒ Seite 57)	(⇒ Seite 85)	(⇒ Seite 99)	(⇒ Seite 127)
125-080-315	(⇒ Seite 16)	(⇒ Seite 30)	(⇒ Seite 58)	(⇒ Seite 86)	(⇒ Seite 100)	(⇒ Seite 128)
125-080-400	-	(⇒ Seite 31)	(⇒ Seite 59)	-	(⇒ Seite 101)	(⇒ Seite 129)
125-100-160	(⇒ Seite 17)	(⇒ Seite 32)	(⇒ Seite 60)	(⇒ Seite 87)	(⇒ Seite 102)	(⇒ Seite 130)
125-100-200	(⇒ Seite 18)	(⇒ Seite 33)	(⇒ Seite 61)	(⇒ Seite 88)	(⇒ Seite 103)	(⇒ Seite 131)
125-100-250	(⇒ Seite 19)	(⇒ Seite 34)	(⇒ Seite 62)	(⇒ Seite 89)	(⇒ Seite 104)	(⇒ Seite 132)
125-100-315	(⇒ Seite 20)	(⇒ Seite 35)	(⇒ Seite 63)	(⇒ Seite 90)	(⇒ Seite 105)	(⇒ Seite 133)
125-100-400	-	(⇒ Seite 36)	(⇒ Seite 64)	-	(⇒ Seite 106)	(⇒ Seite 134)
150-125-200	(⇒ Seite 21)	(⇒ Seite 37)	(⇒ Seite 65)	(⇒ Seite 91)	(⇒ Seite 107)	(⇒ Seite 135)
150-125-250	-	(⇒ Seite 38)	(⇒ Seite 66)	-	(⇒ Seite 108)	(⇒ Seite 136)
150-125-315	-	(⇒ Seite 39)	(⇒ Seite 67)	-	(⇒ Seite 109)	(⇒ Seite 137)
150-125-400	-	(⇒ Seite 40)	(⇒ Seite 68)	-	(⇒ Seite 110)	(⇒ Seite 138)
200-150-200	-	(⇒ Seite 41)	(⇒ Seite 69)	-	(⇒ Seite 111)	(⇒ Seite 139)
200-150-250	-	(⇒ Seite 42)	(⇒ Seite 70)	-	(⇒ Seite 112)	(⇒ Seite 140)
200-150-315	-	(⇒ Seite 43)	(⇒ Seite 71)	-	(⇒ Seite 113)	(⇒ Seite 141)
200-150-400	-	(⇒ Seite 44)	(⇒ Seite 72)	-	(⇒ Seite 114)	(⇒ Seite 142)
200-150-500	-	(⇒ Seite 45)	(⇒ Seite 73)	-	(⇒ Seite 115)	(⇒ Seite 143)
250-200-315	-	(⇒ Seite 46)	(⇒ Seite 74)	-	(⇒ Seite 116)	(⇒ Seite 144)
250-200-400	-	(⇒ Seite 47)	(⇒ Seite 75)	-	(⇒ Seite 117)	(⇒ Seite 145)
250-200-500	-	(⇒ Seite 48)	(⇒ Seite 76)	-	(⇒ Seite 118)	(⇒ Seite 146)
300-250-315	-	(⇒ Seite 49)	(⇒ Seite 77)	-	(⇒ Seite 119)	(⇒ Seite 147)

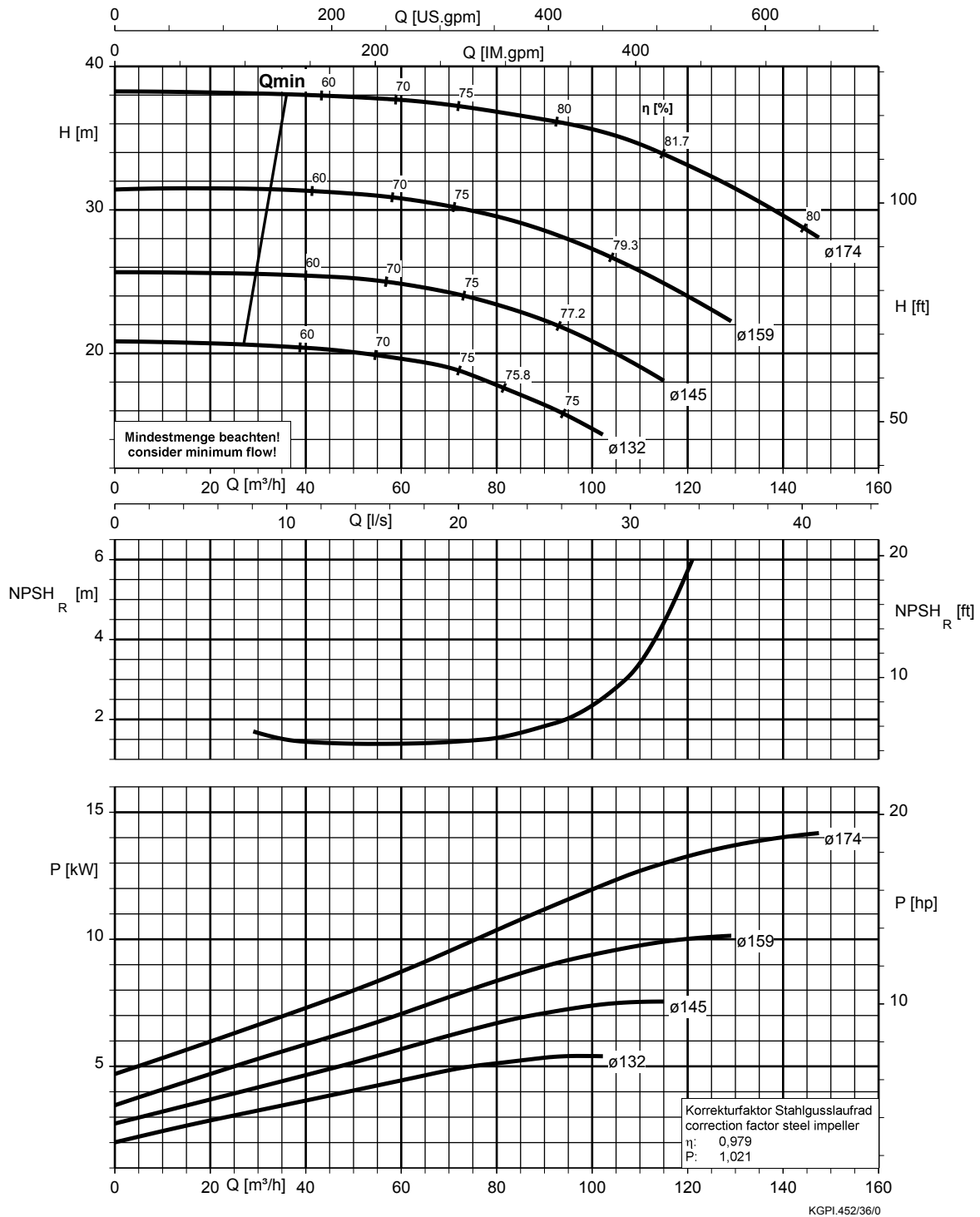
Kennlinien

$n = 2900 \text{ min}^{-1}$

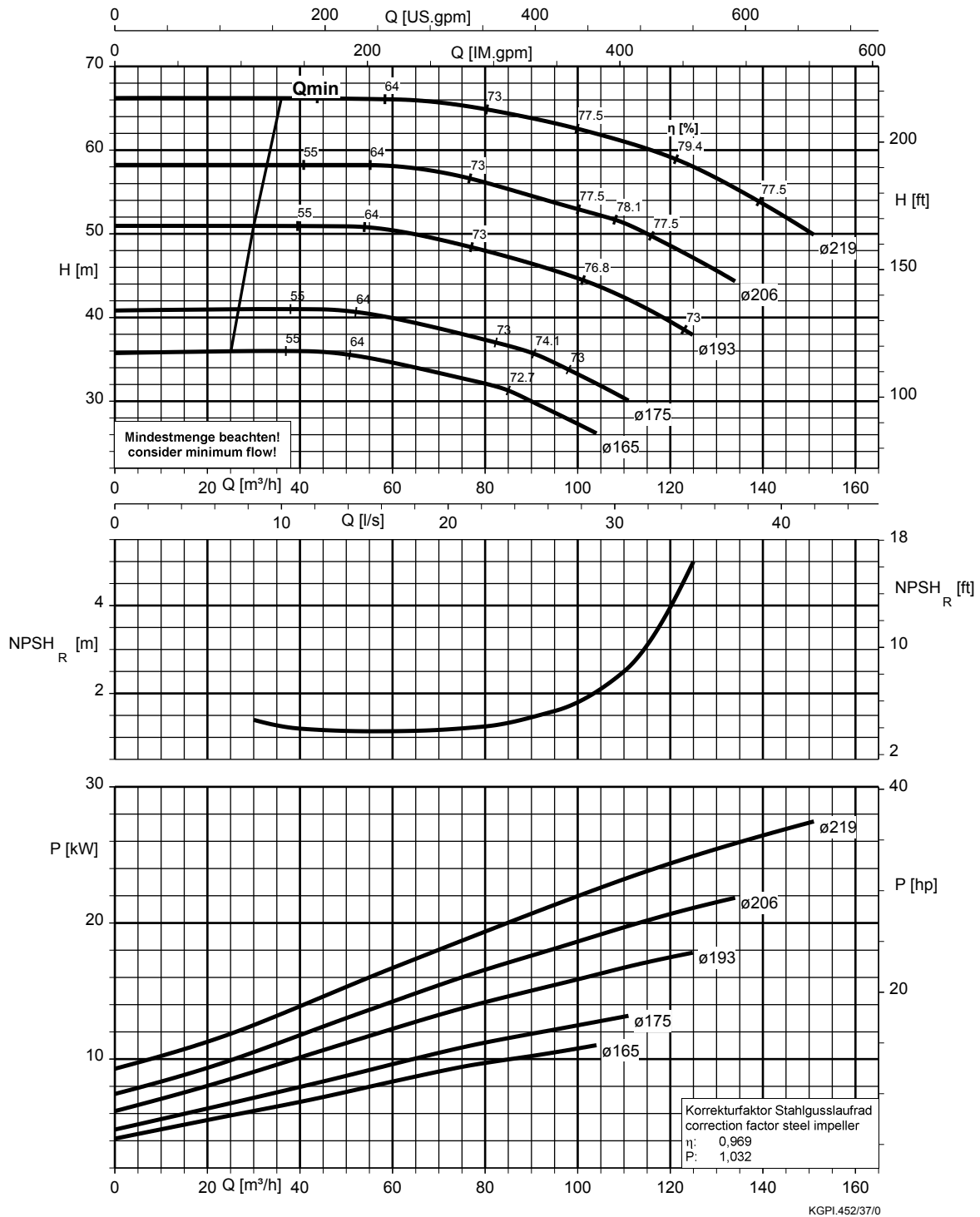
MegaCPK Inducer 100-065-125, $n = 2900 \text{ min}^{-1}$



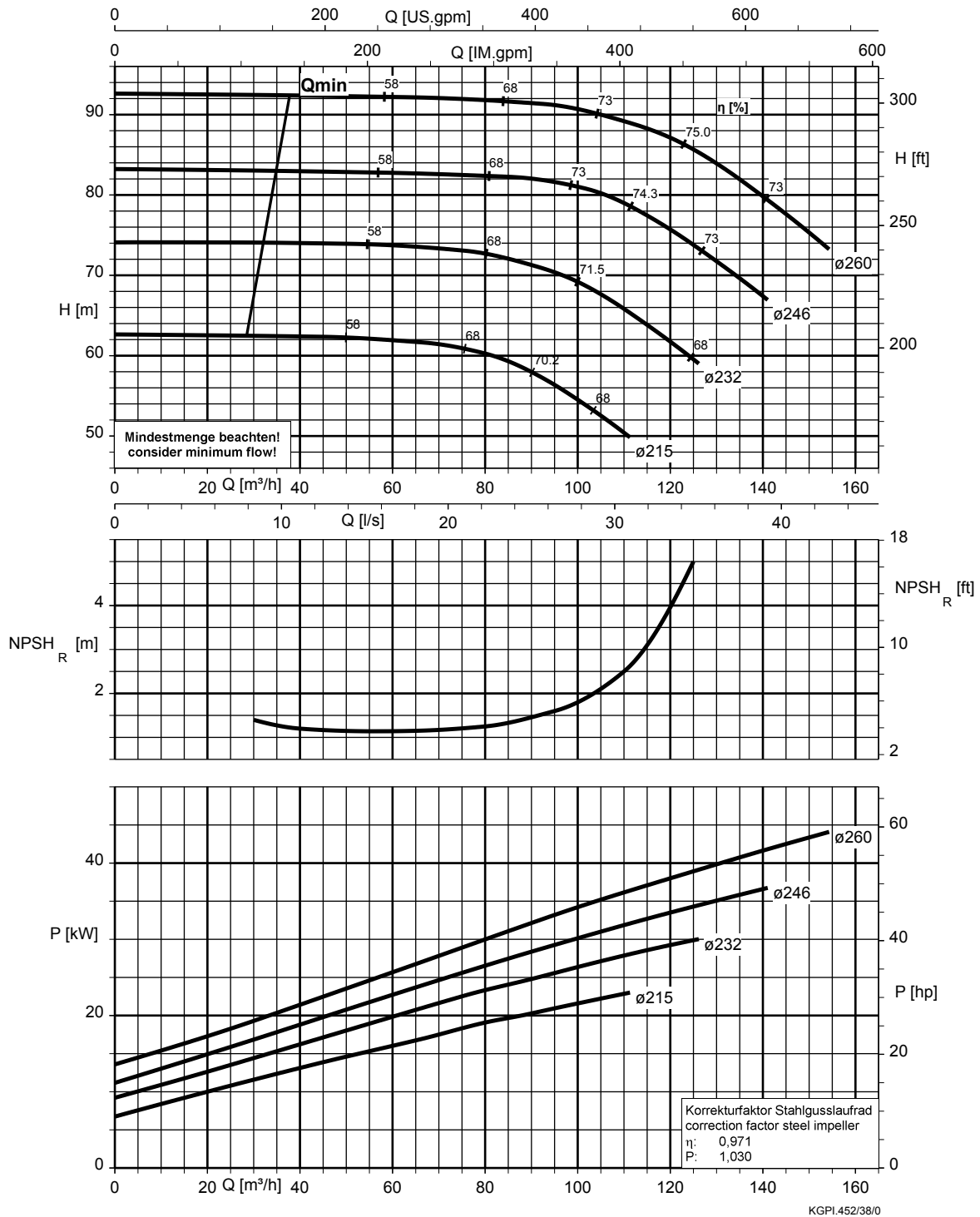
MegaCPK Inducer 100-065-160, $n = 2900 \text{ min}^{-1}$



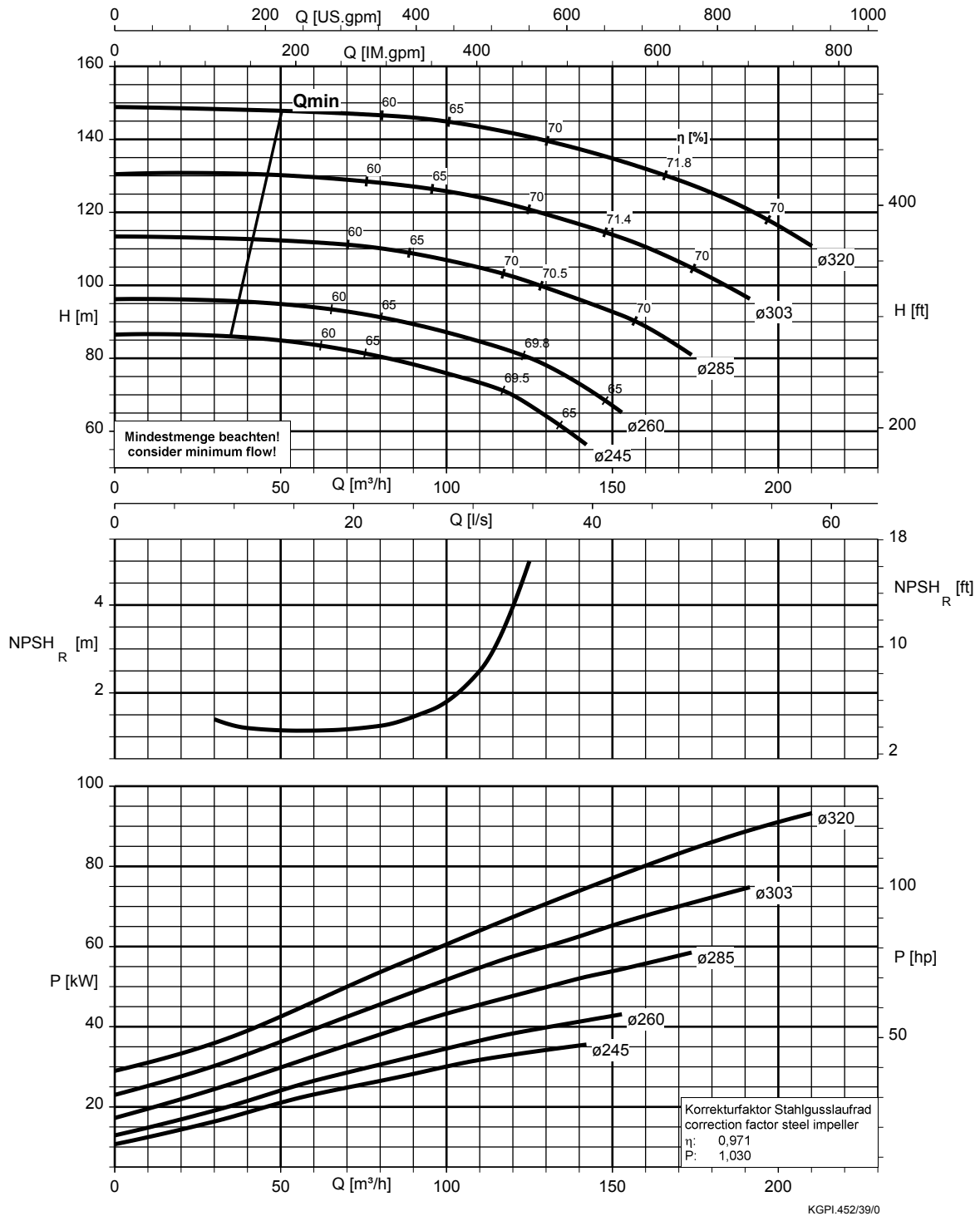
MegaCPK Inducer 100-065-200, $n = 2900 \text{ min}^{-1}$



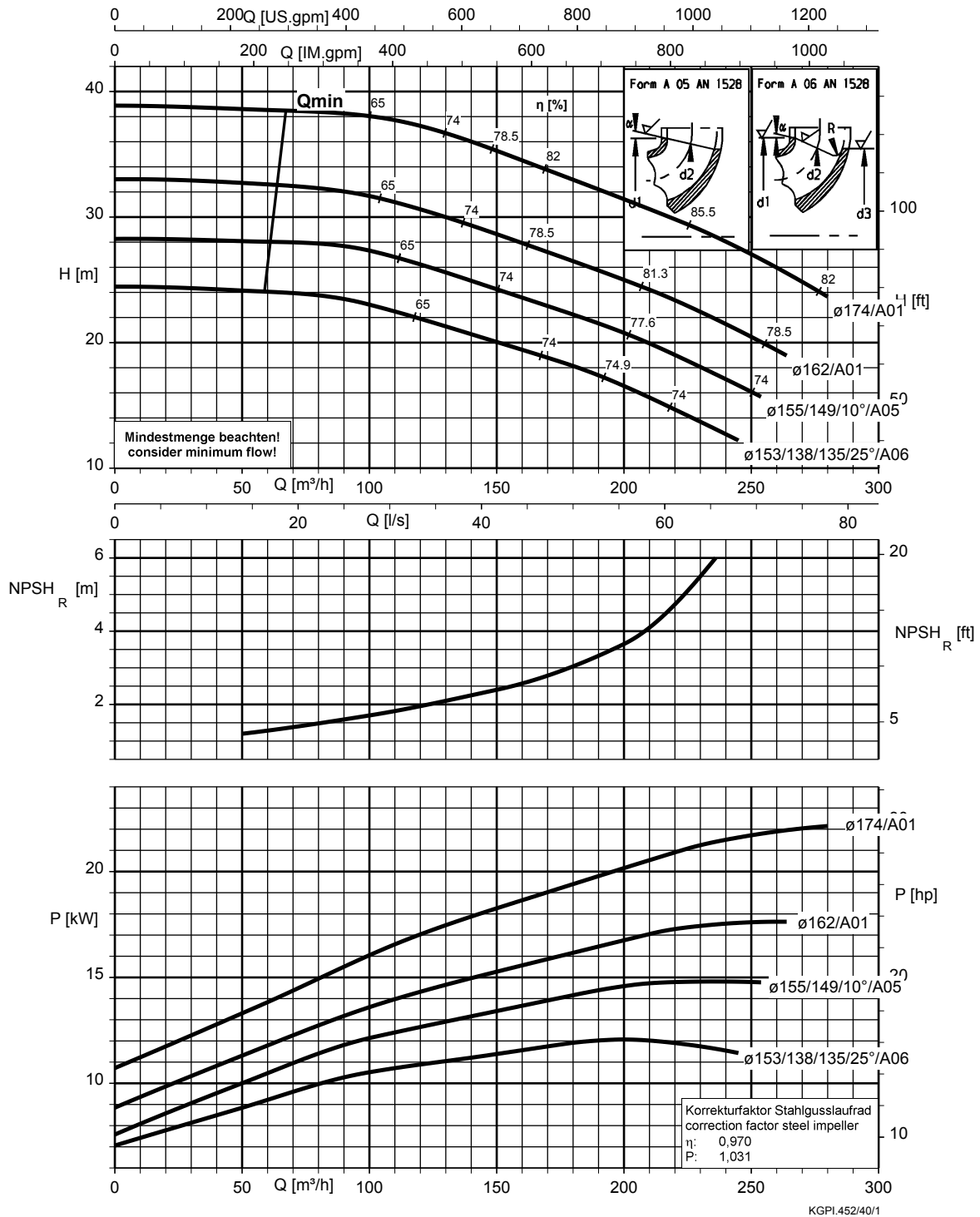
MegaCPK Inducer 100-065-250, $n = 2900 \text{ min}^{-1}$



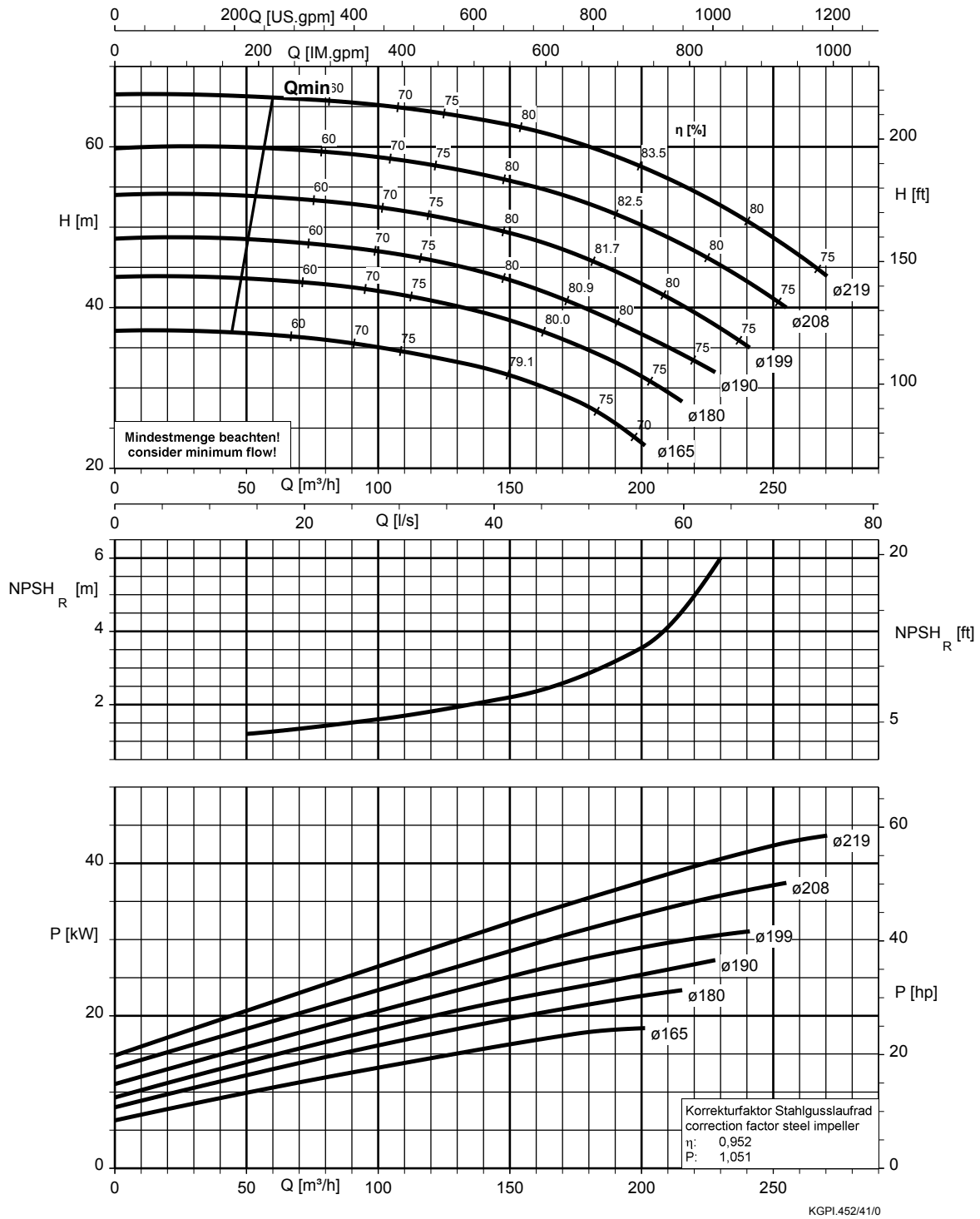
MegaCPK Inducer 100-065-315, $n = 2900 \text{ min}^{-1}$



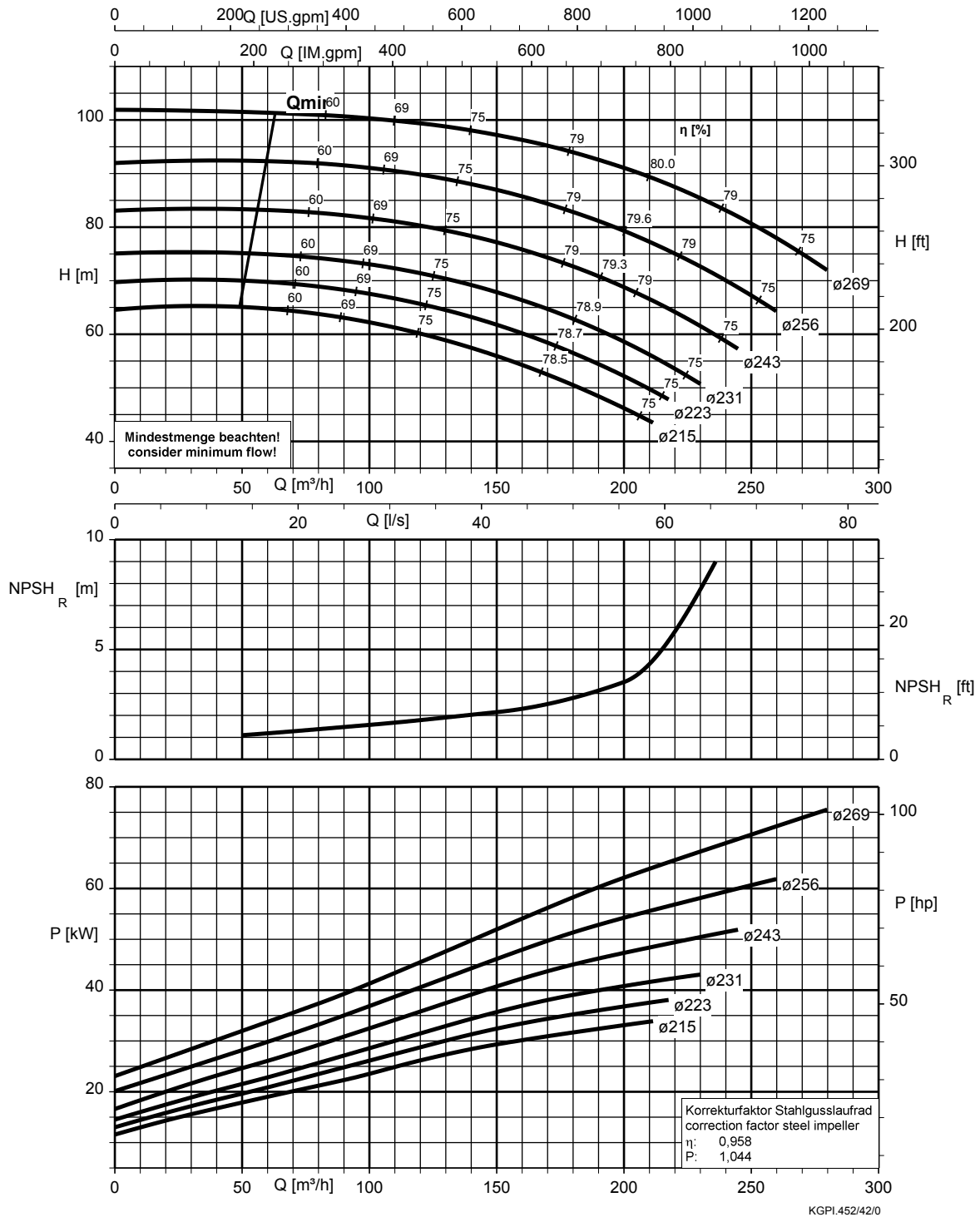
MegaCPK Inducer 125-080-160, $n = 2900 \text{ min}^{-1}$



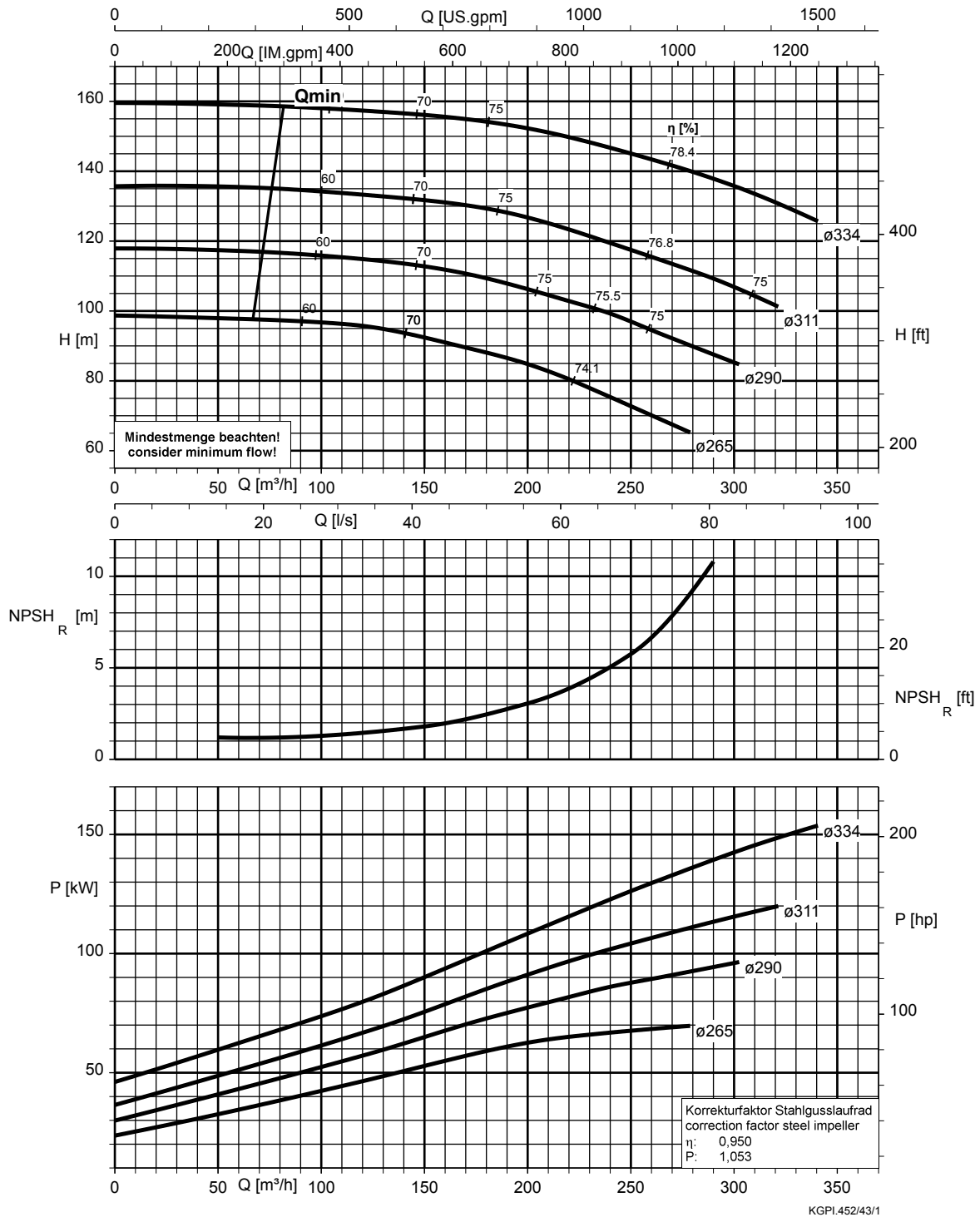
MegaCPK Inducer 125-080-200, $n = 2900 \text{ min}^{-1}$



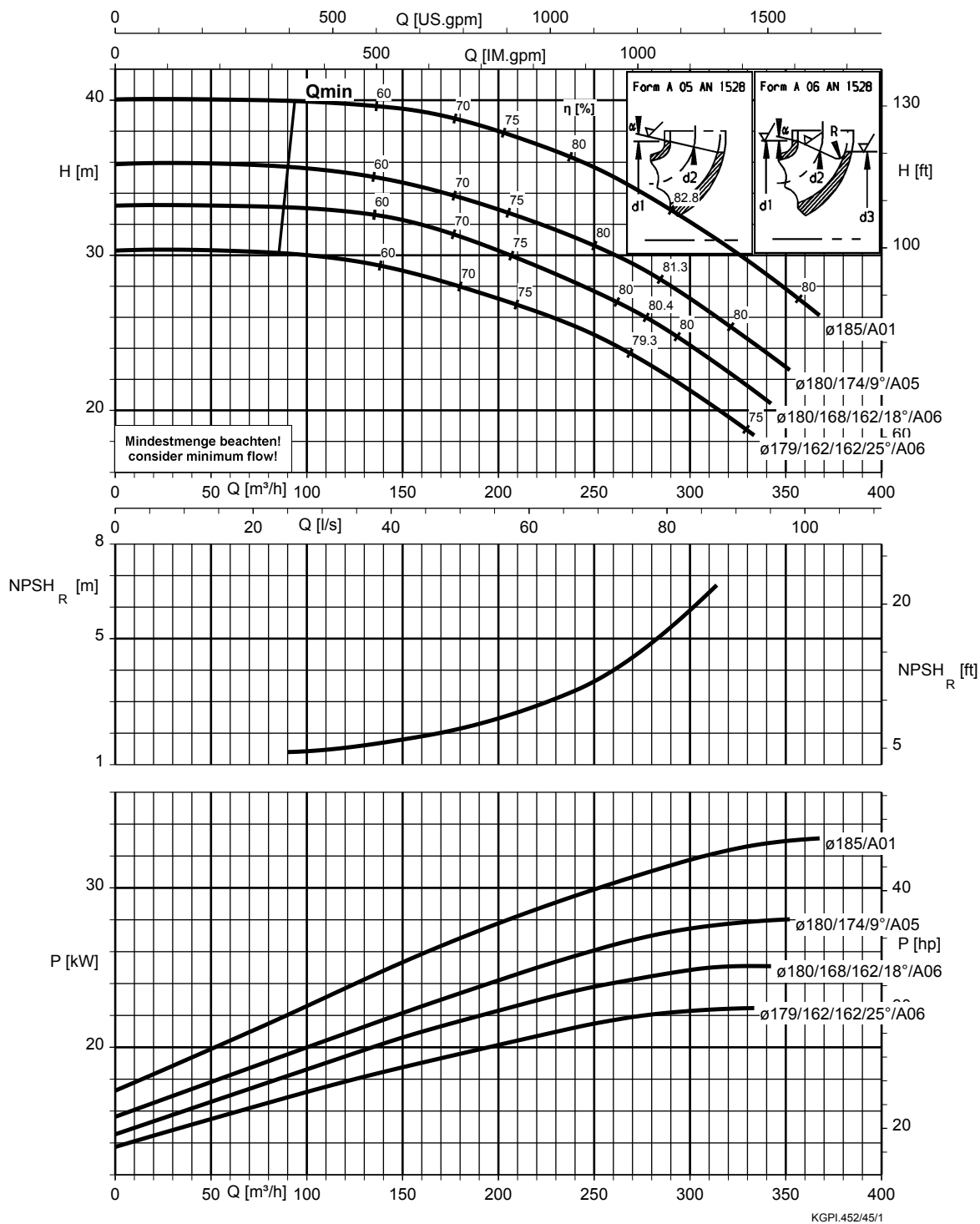
MegaCPK Inducer 125-080-250, $n = 2900 \text{ min}^{-1}$



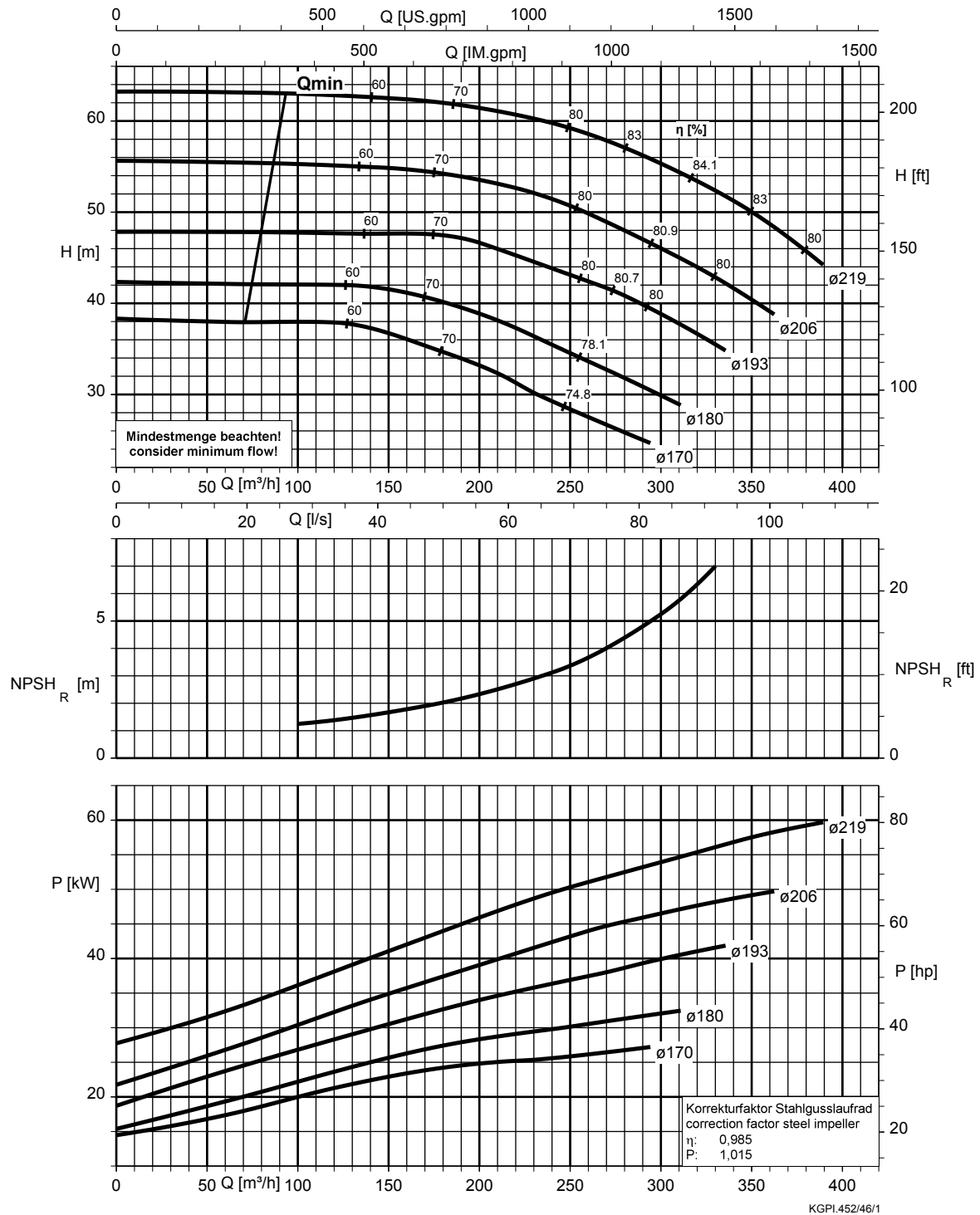
MegaCPK Inducer 125-080-315, $n = 2900 \text{ min}^{-1}$



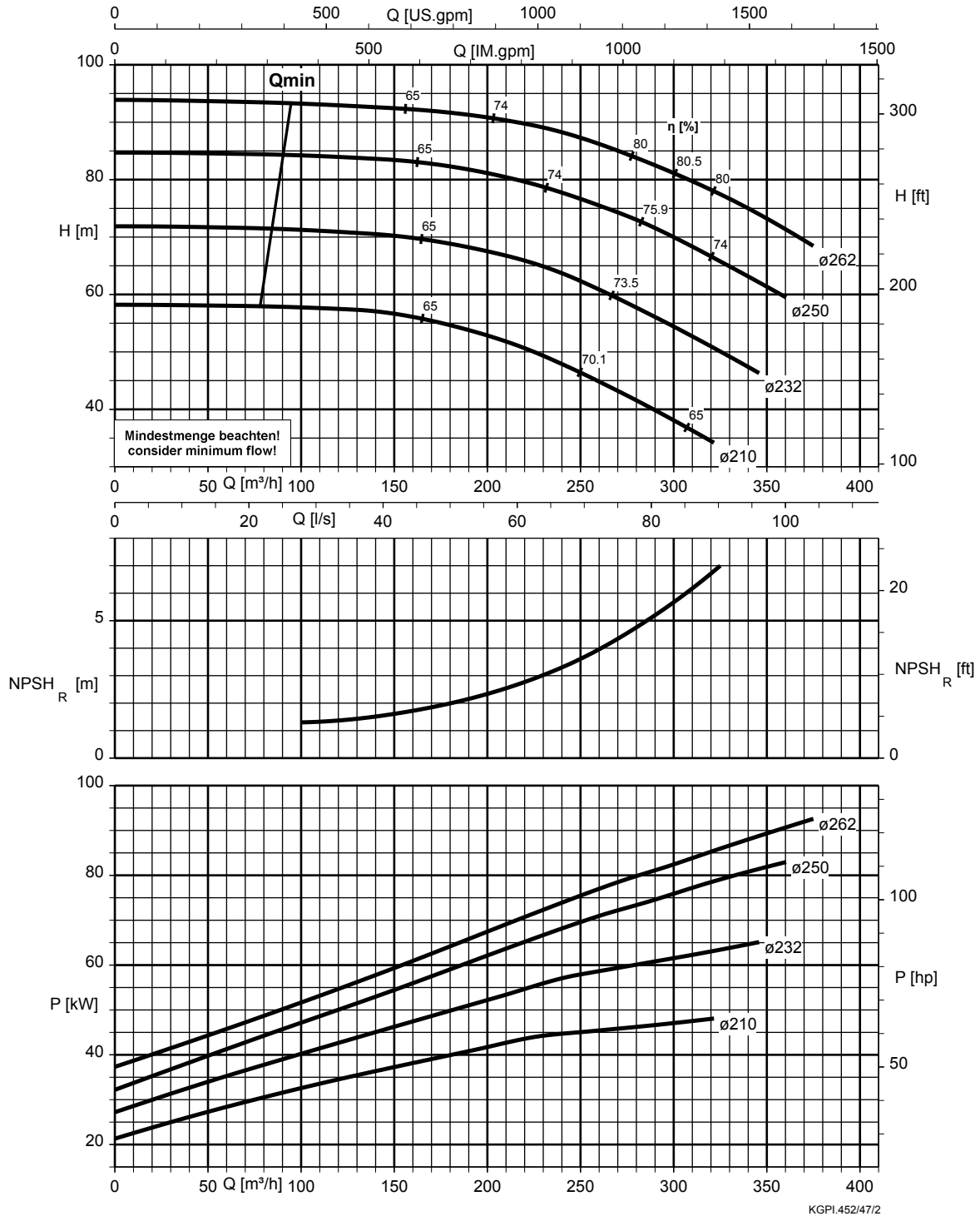
MegaCPK Inducer 125-100-160, $n = 2900 \text{ min}^{-1}$



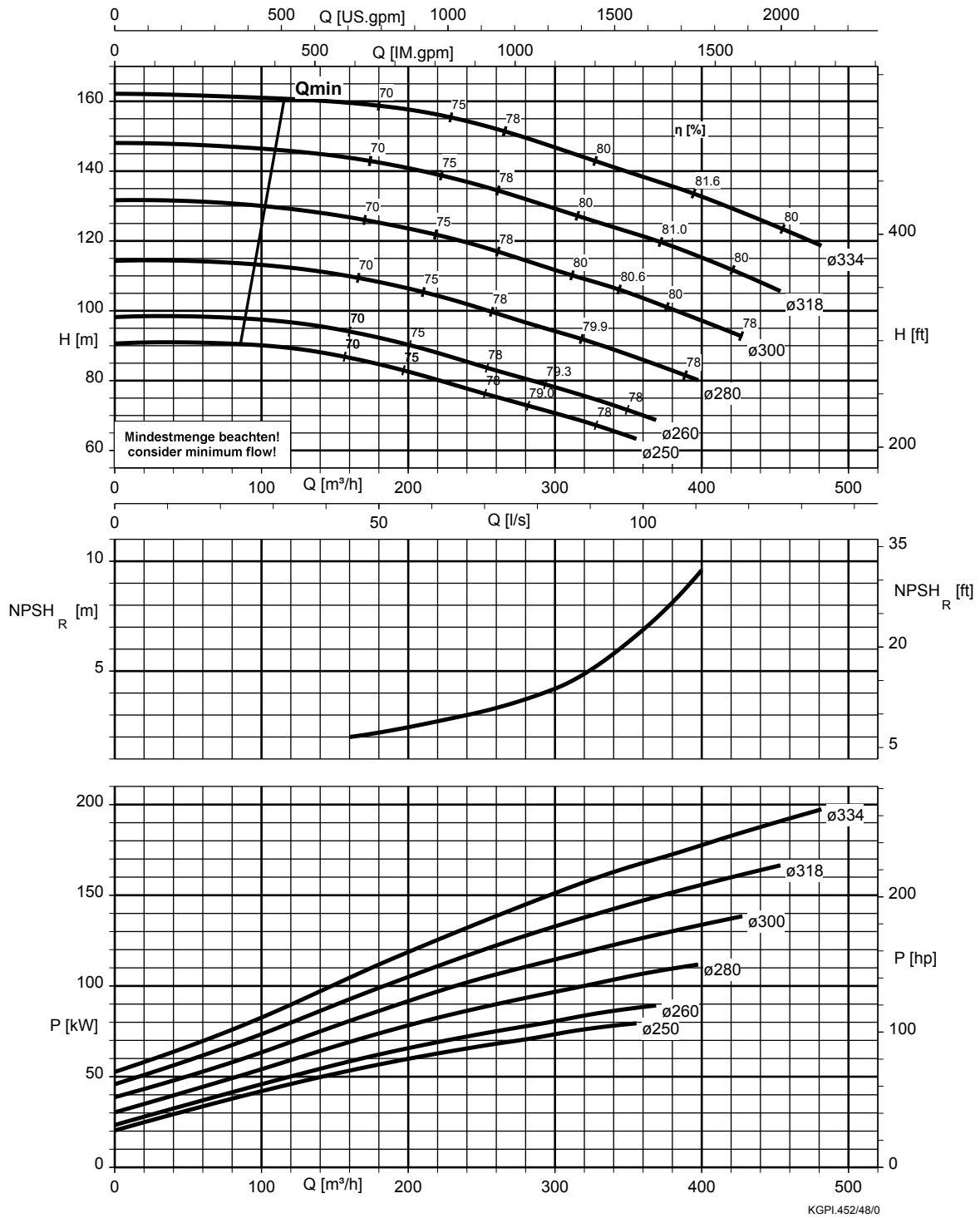
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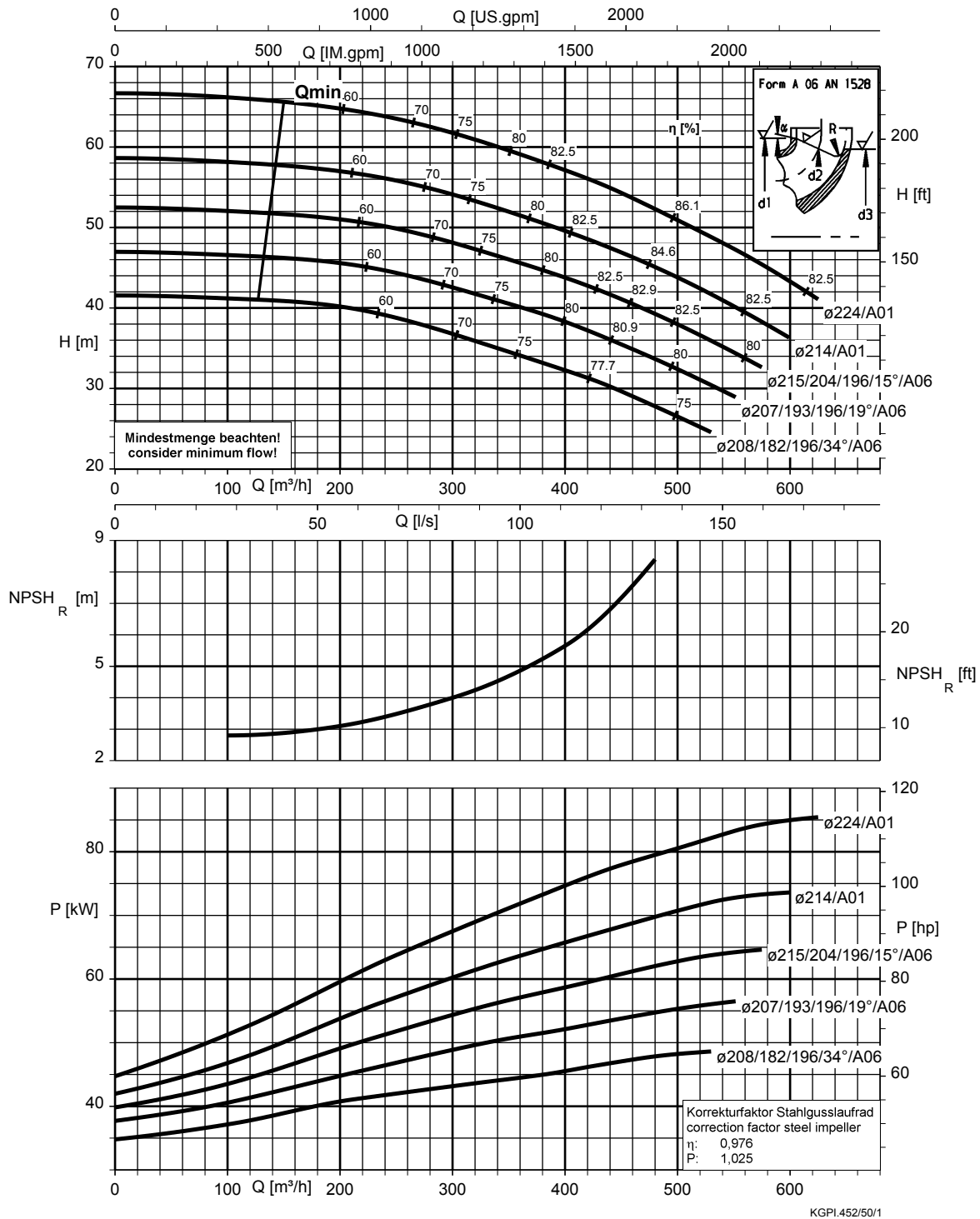
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MegaCPK Inducer 125-100-315, $n = 2900 \text{ min}^{-1}$

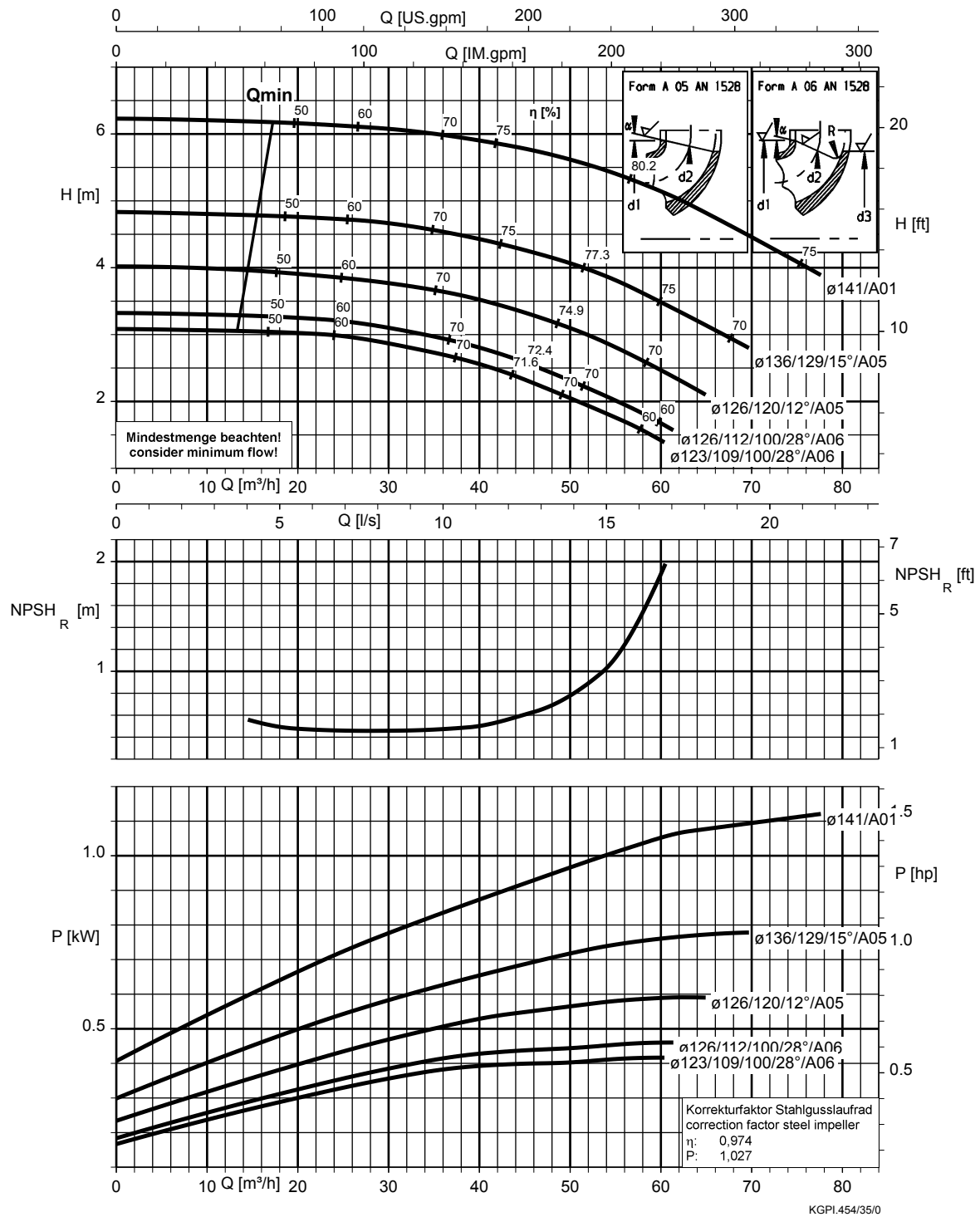


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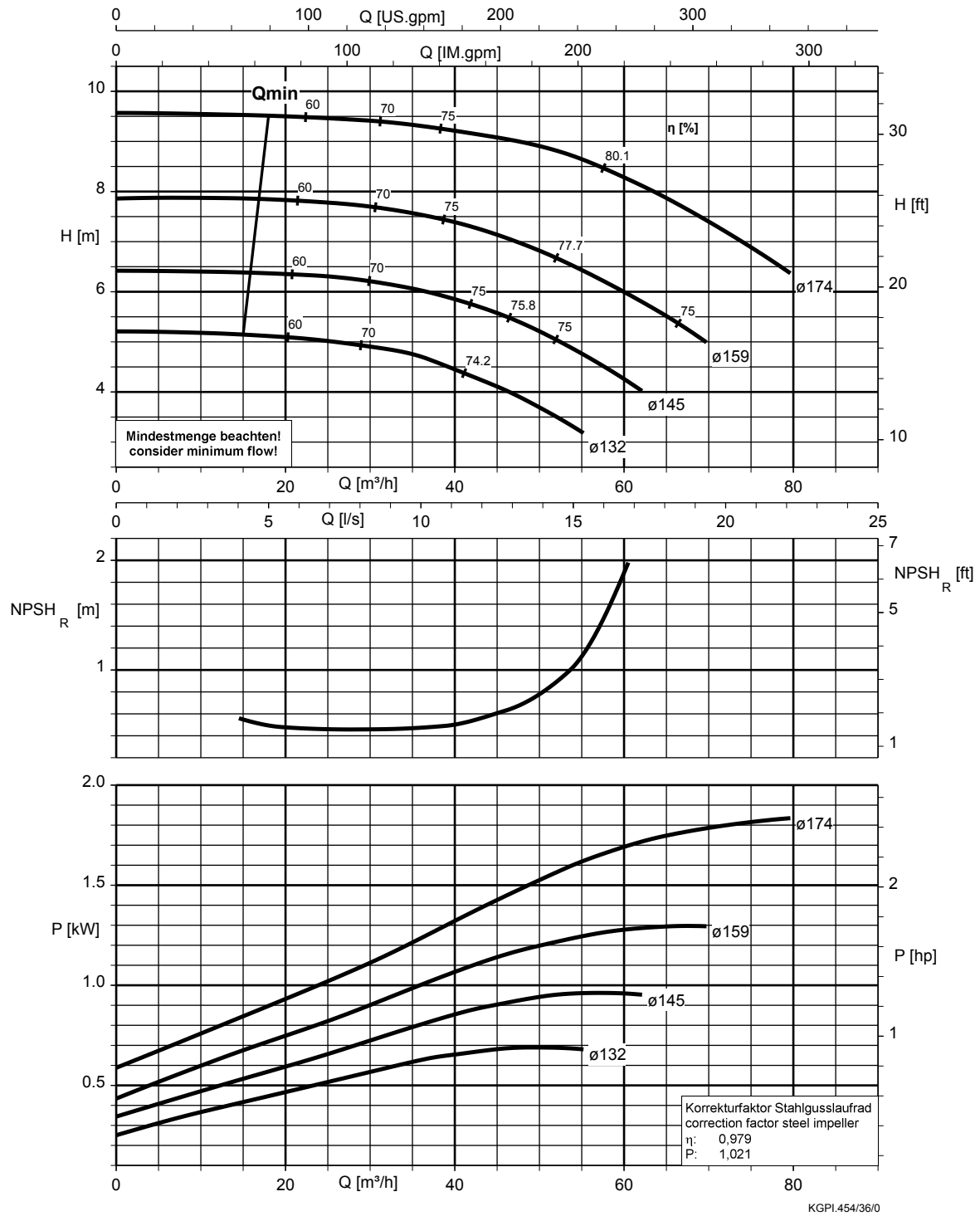


$n = 1450 \text{ min}^{-1}$

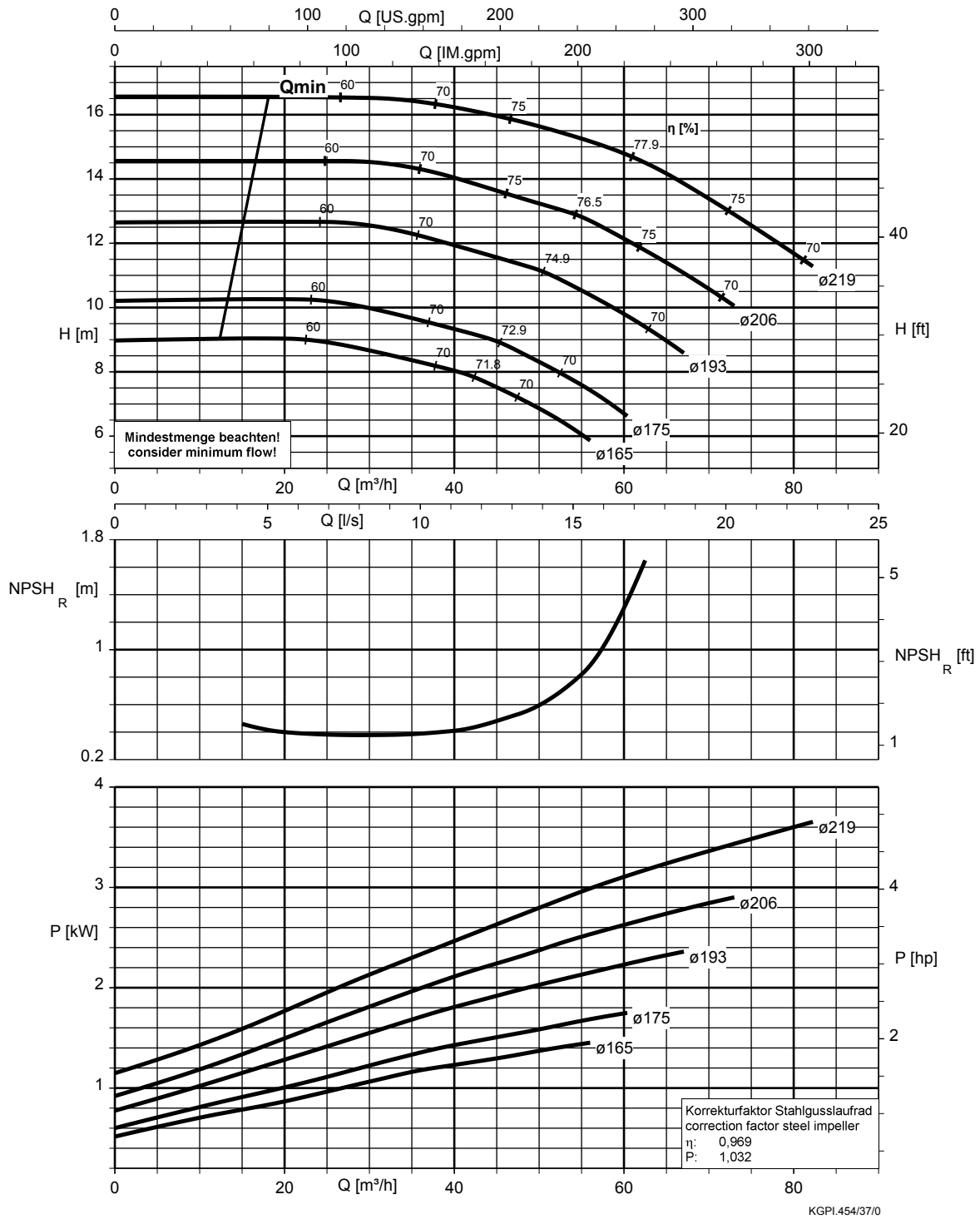
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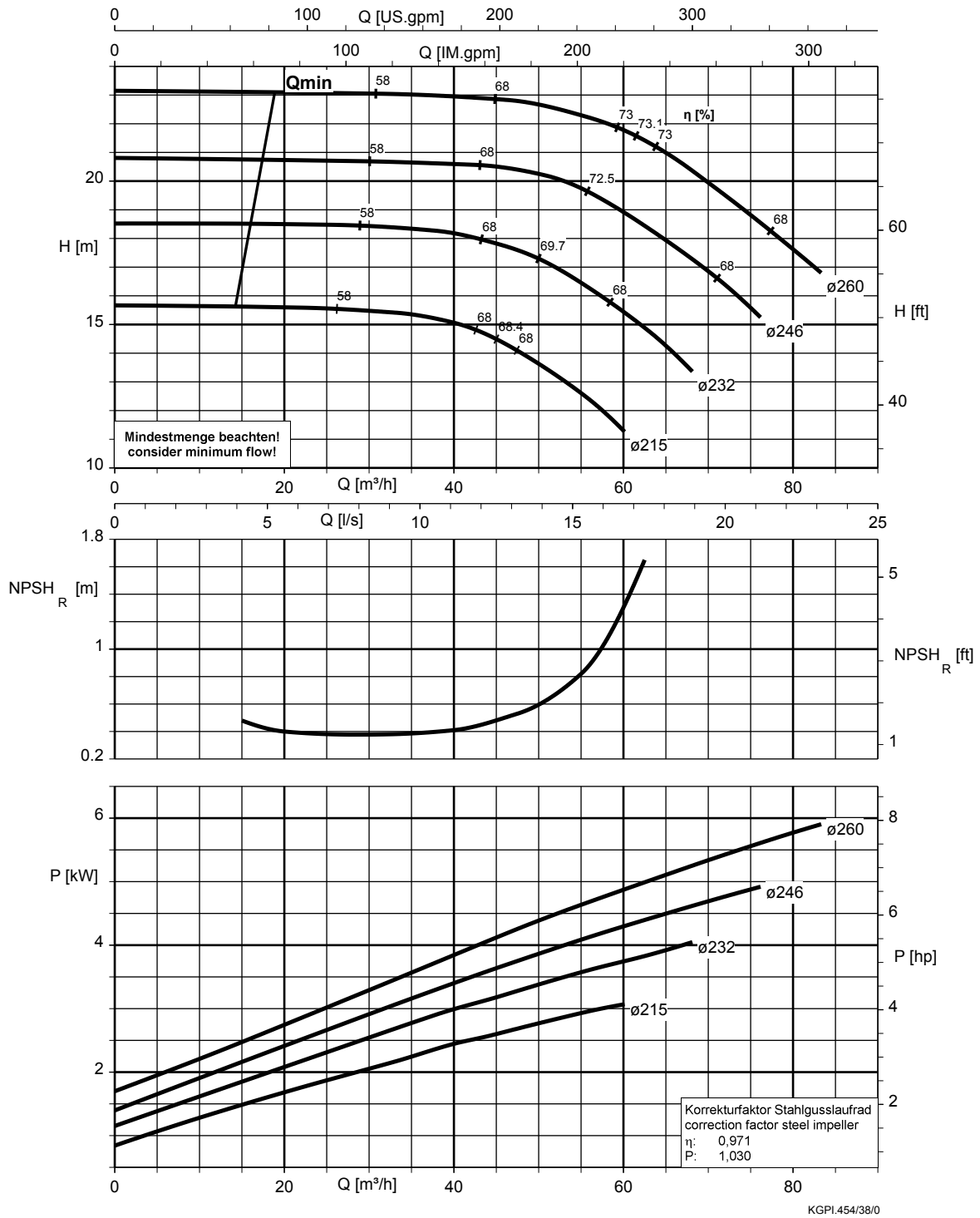
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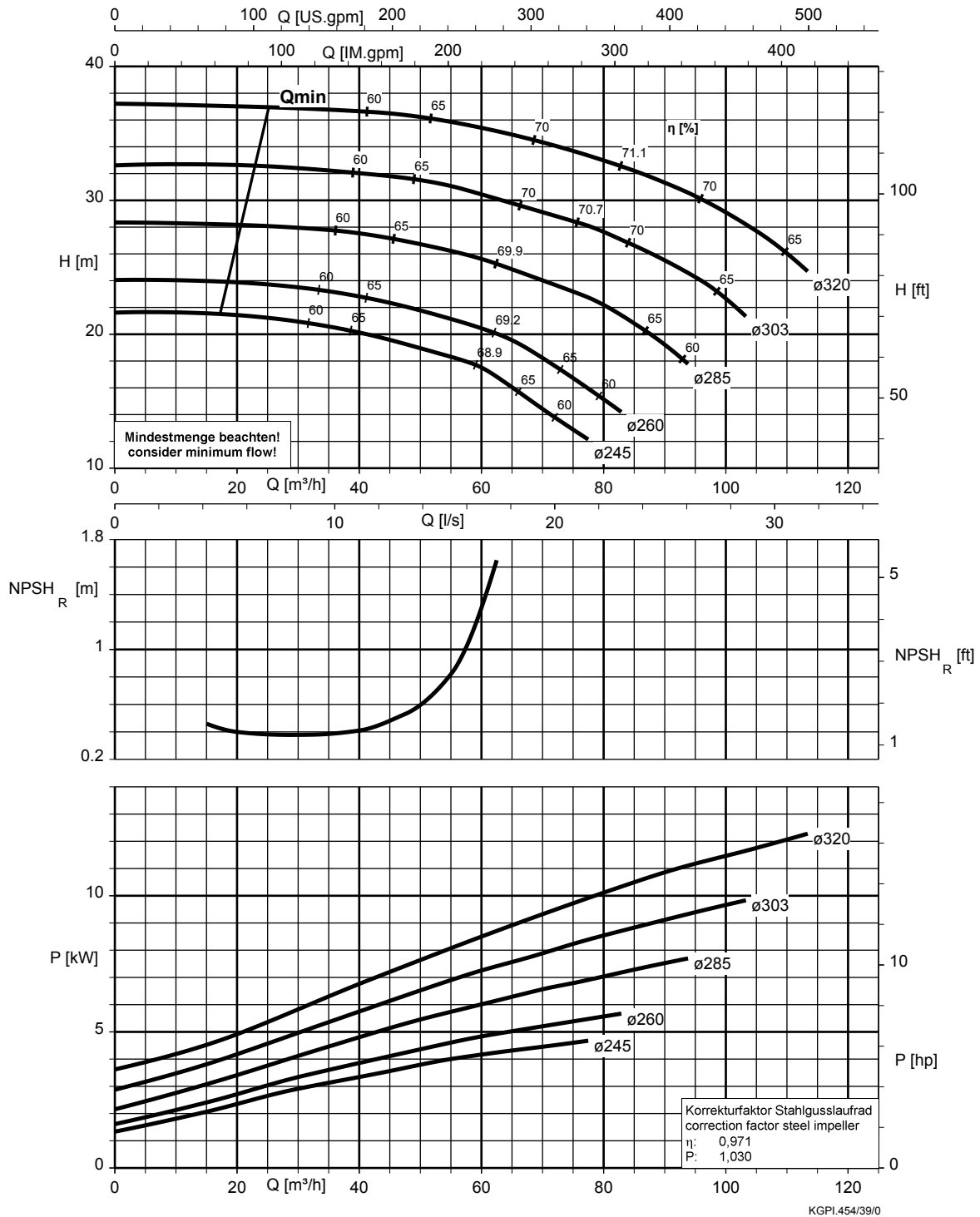
MegaCPK Inducer 100-065-200, $n = 1450 \text{ min}^{-1}$



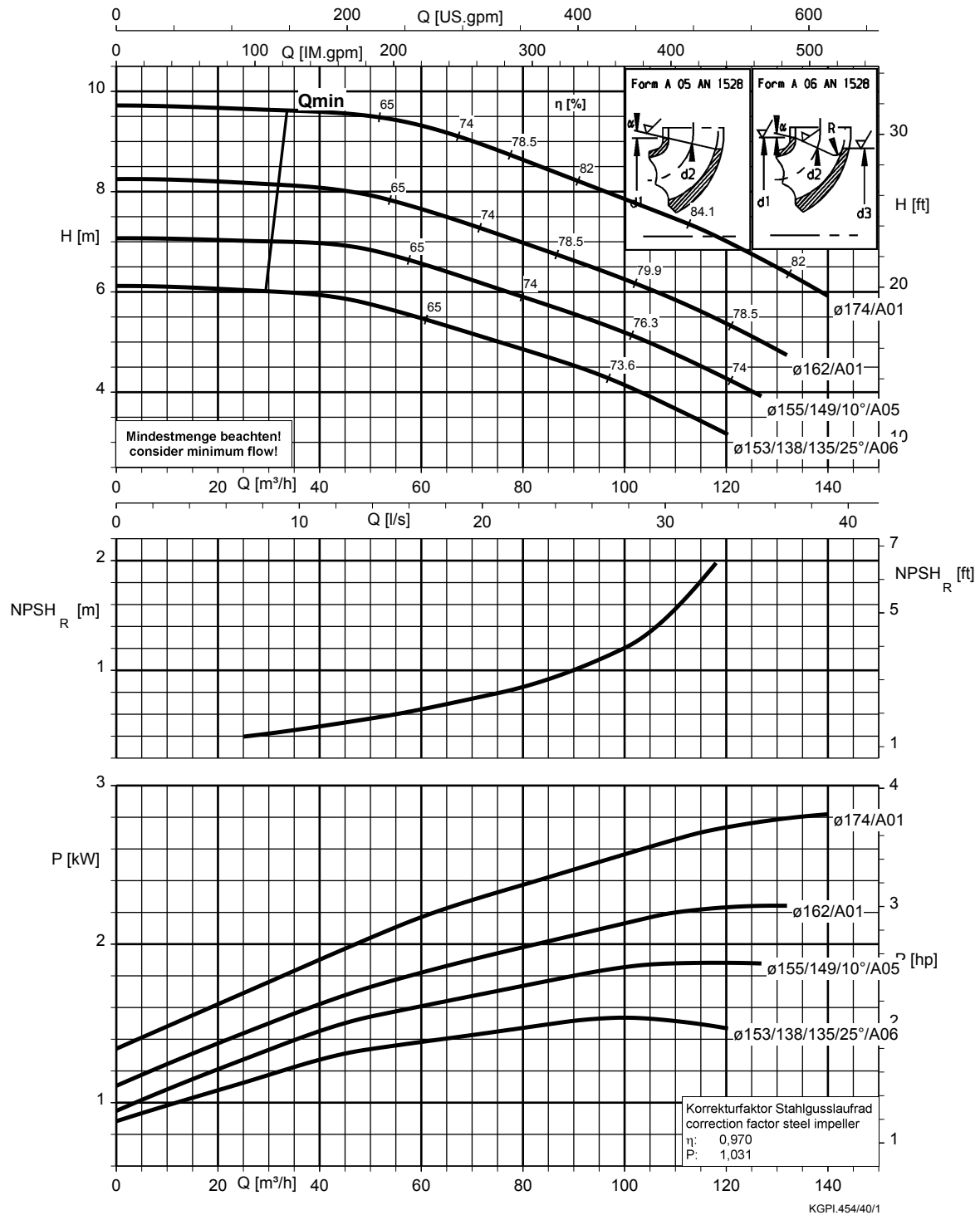
MegaCPK Inducer 100-065-250, $n = 1450 \text{ min}^{-1}$



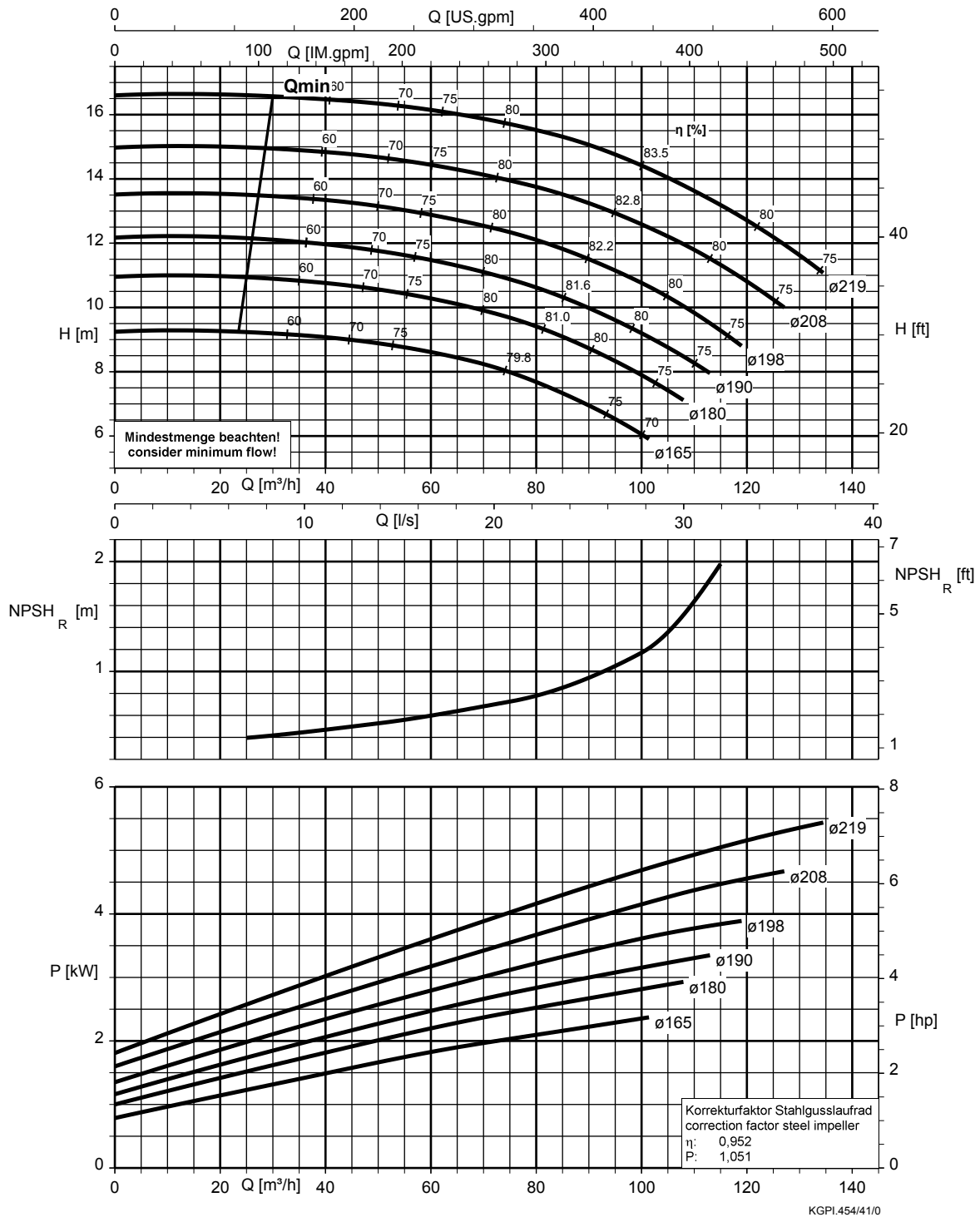
MegaCPK Inducer 100-065-315, $n = 1450 \text{ min}^{-1}$



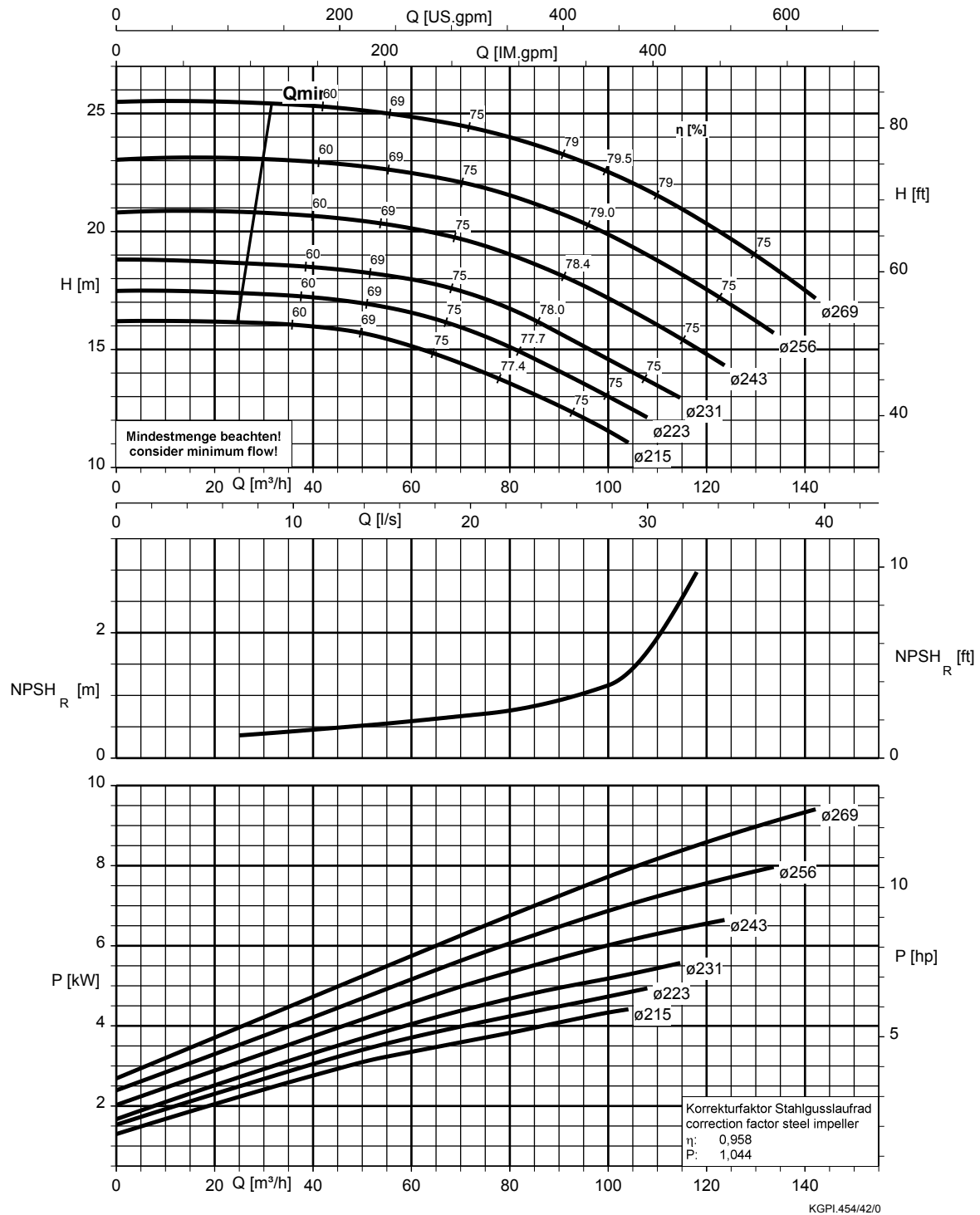
MegaCPK Inducer 125-080-160, $n = 1450 \text{ min}^{-1}$



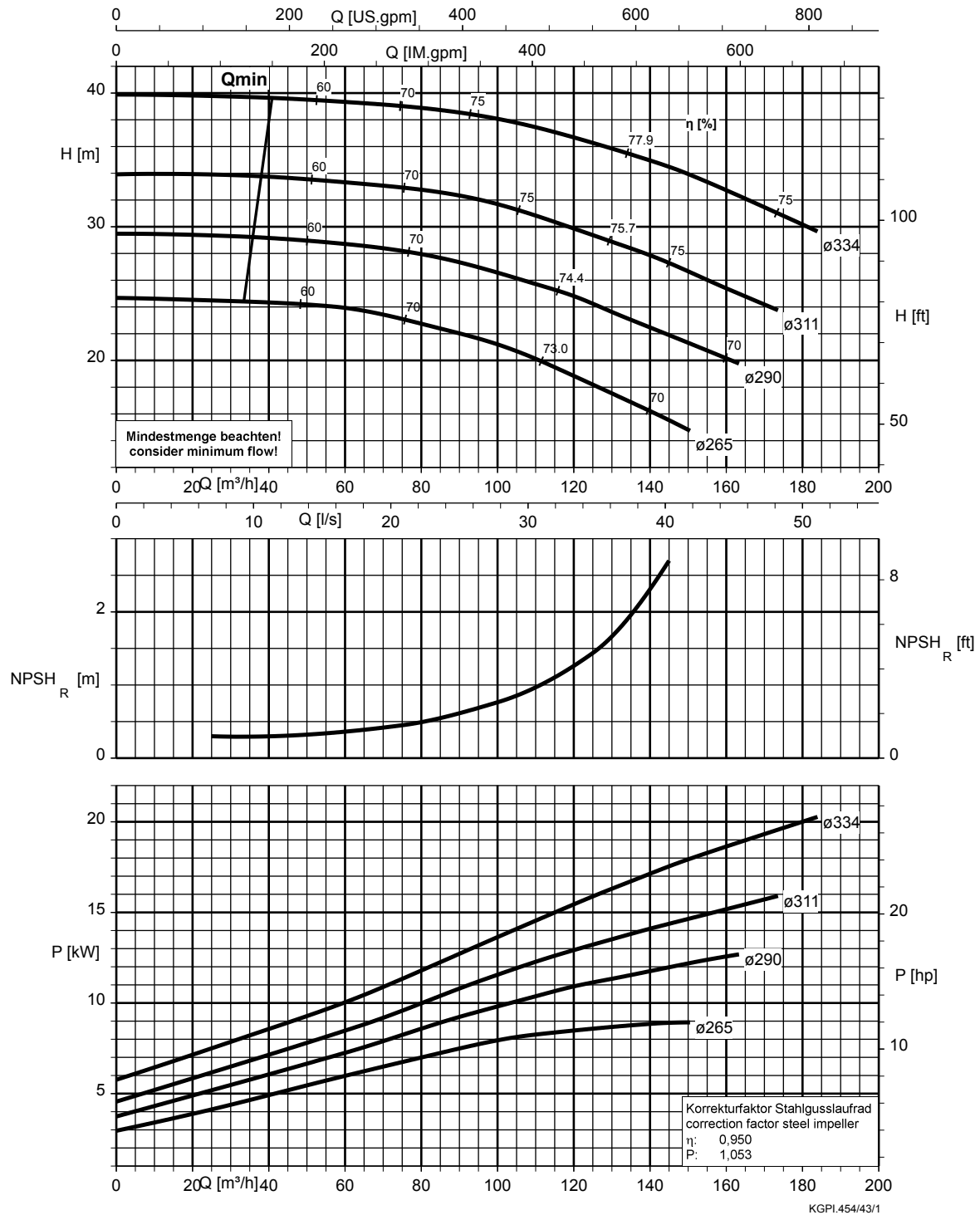
MegaCPK Inducer 125-080-200, $n = 1450 \text{ min}^{-1}$



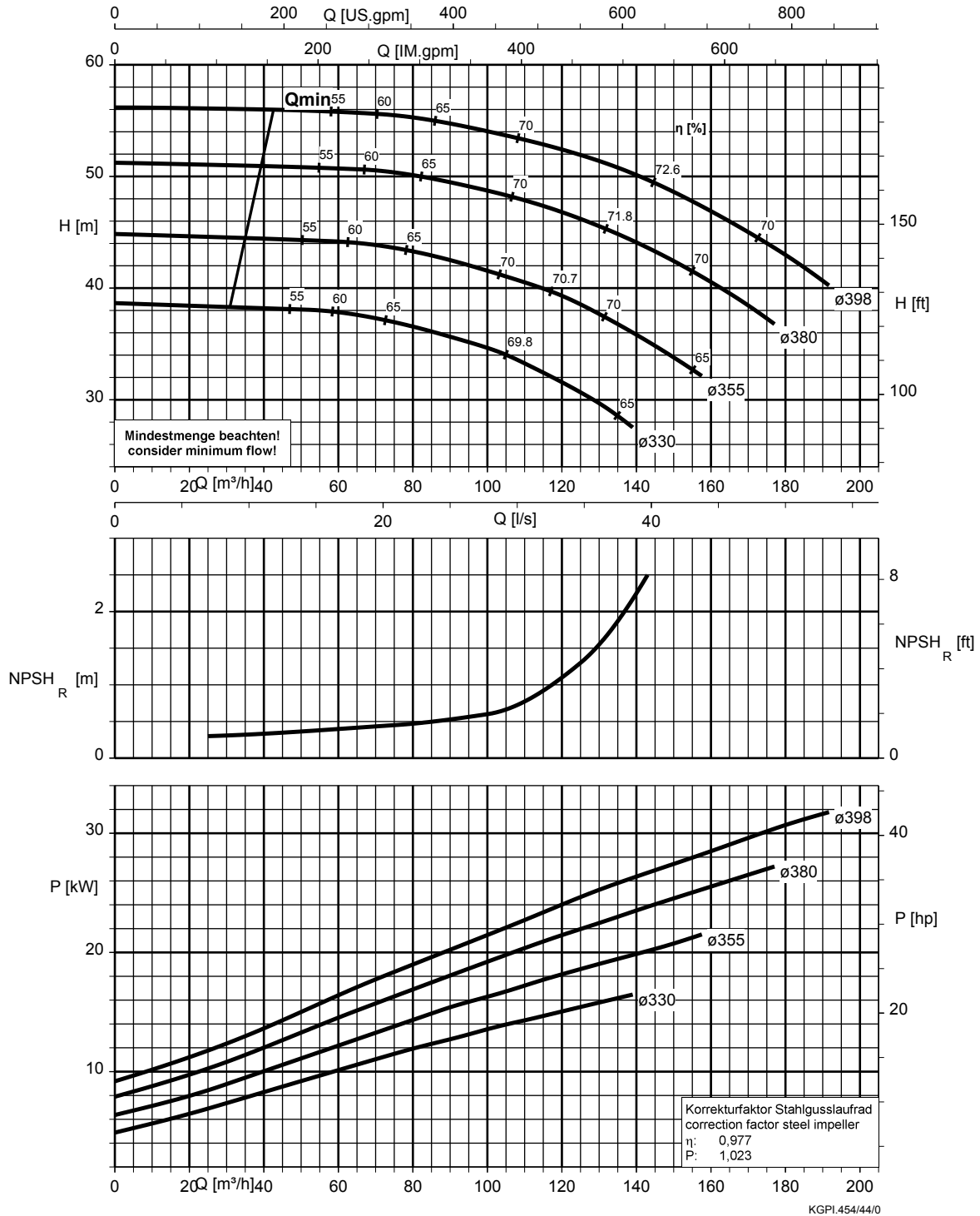
MegaCPK Inducer 125-080-250, $n = 1450 \text{ min}^{-1}$



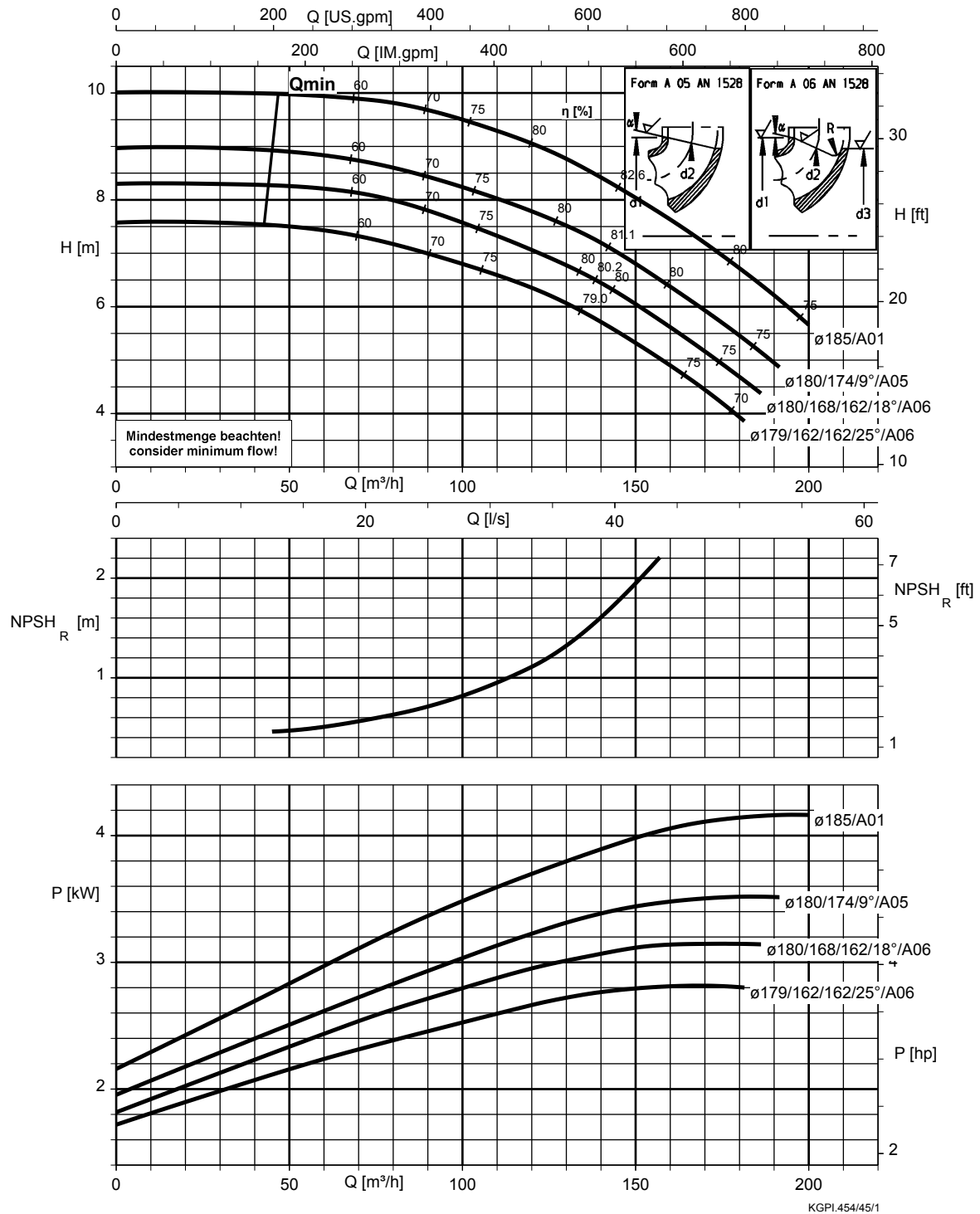
MegaCPK Inducer 125-080-315, $n = 1450 \text{ min}^{-1}$



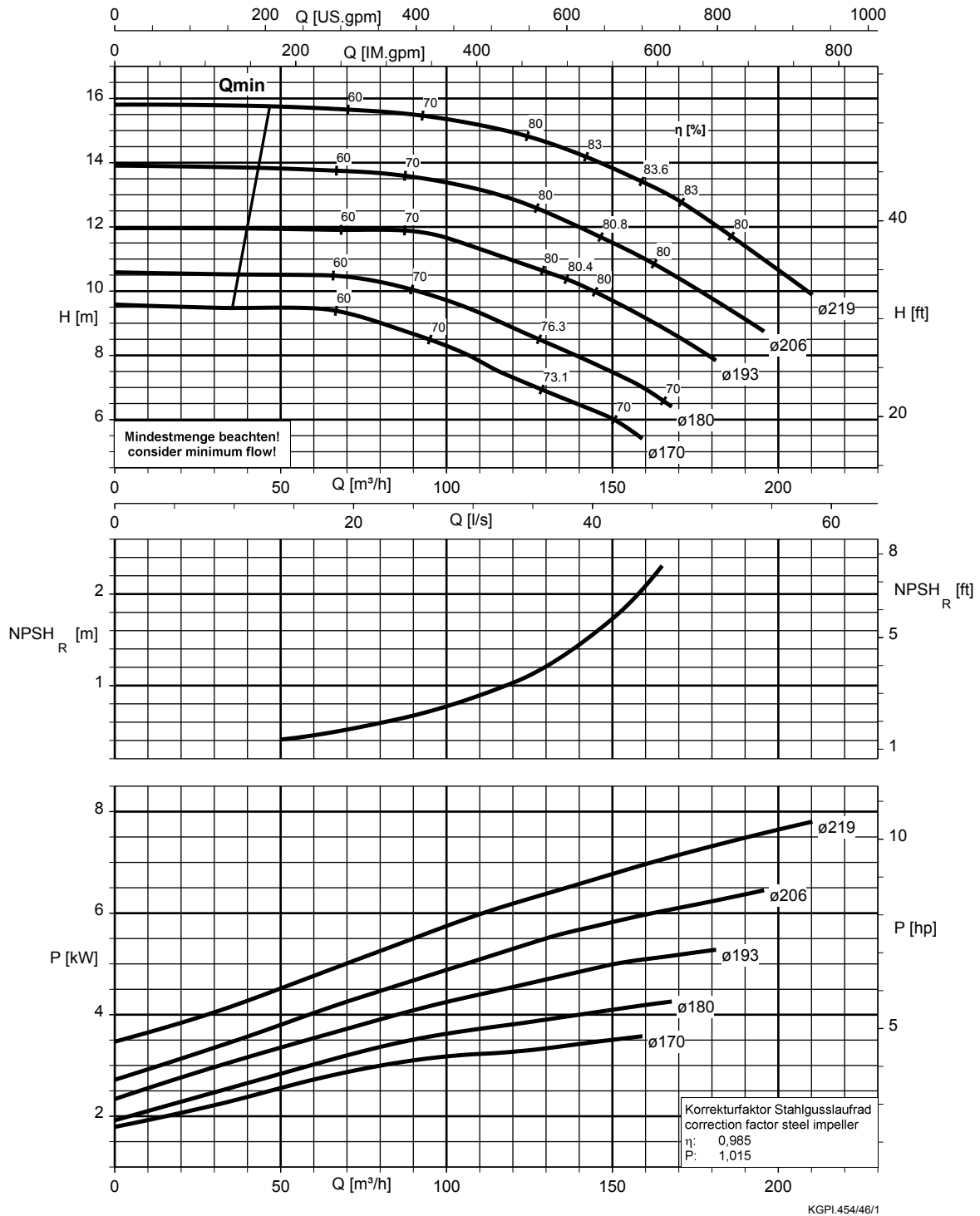
MegaCPK Inducer 125-080-400, $n = 1450 \text{ min}^{-1}$



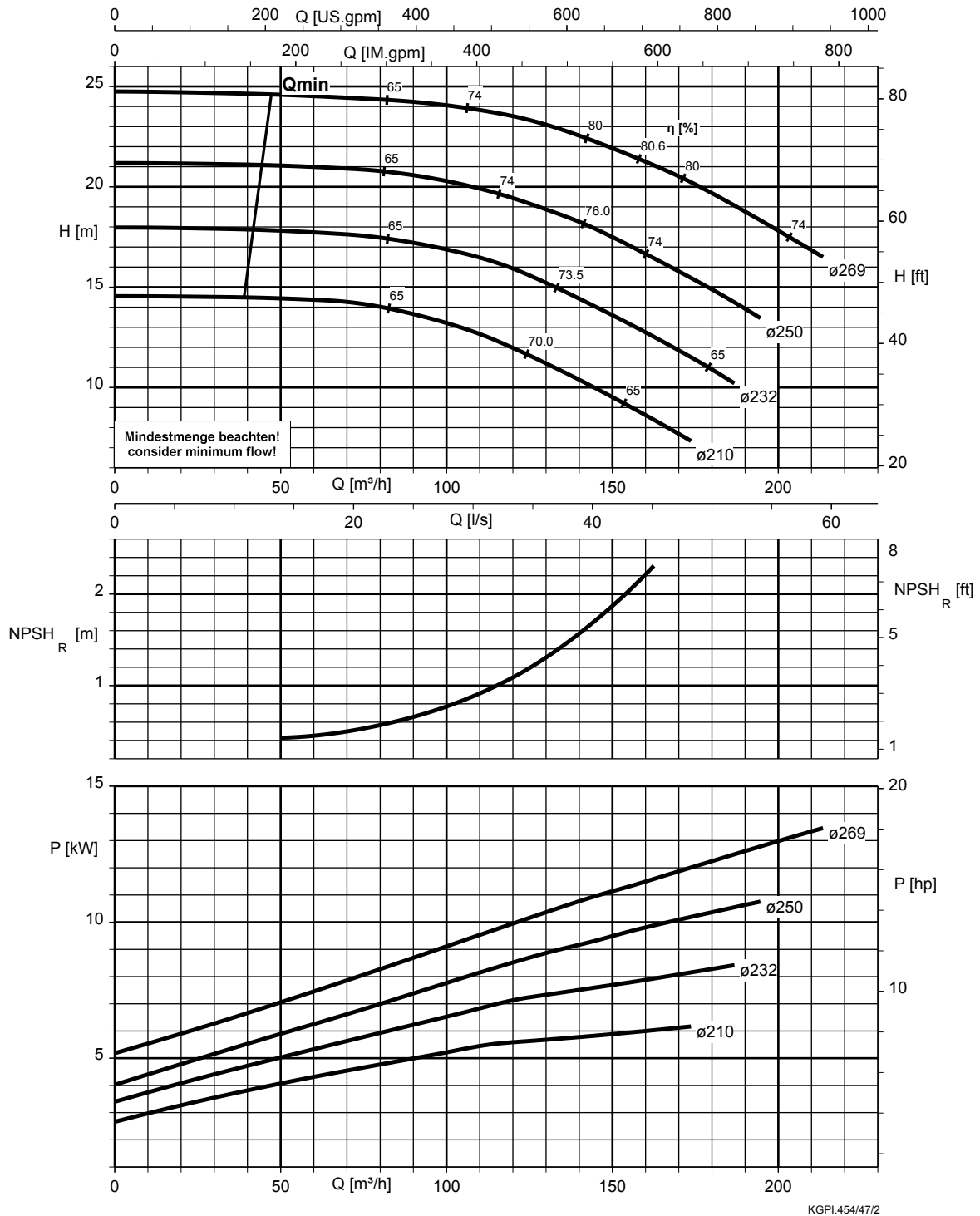
MegaCPK Inducer 125-100-160, $n = 1450 \text{ min}^{-1}$



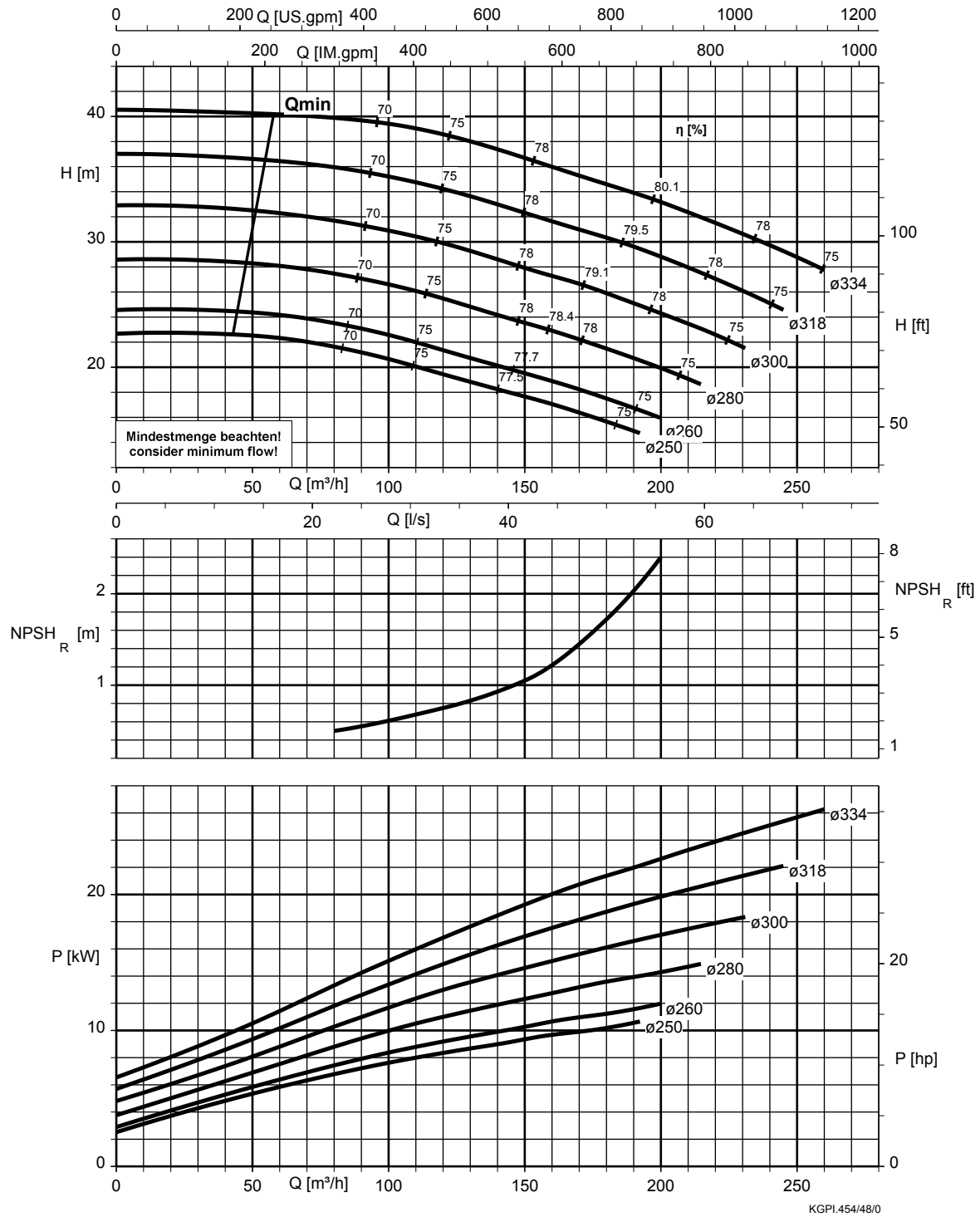
MegaCPK Inducer 125-100-200, $n = 1450 \text{ min}^{-1}$



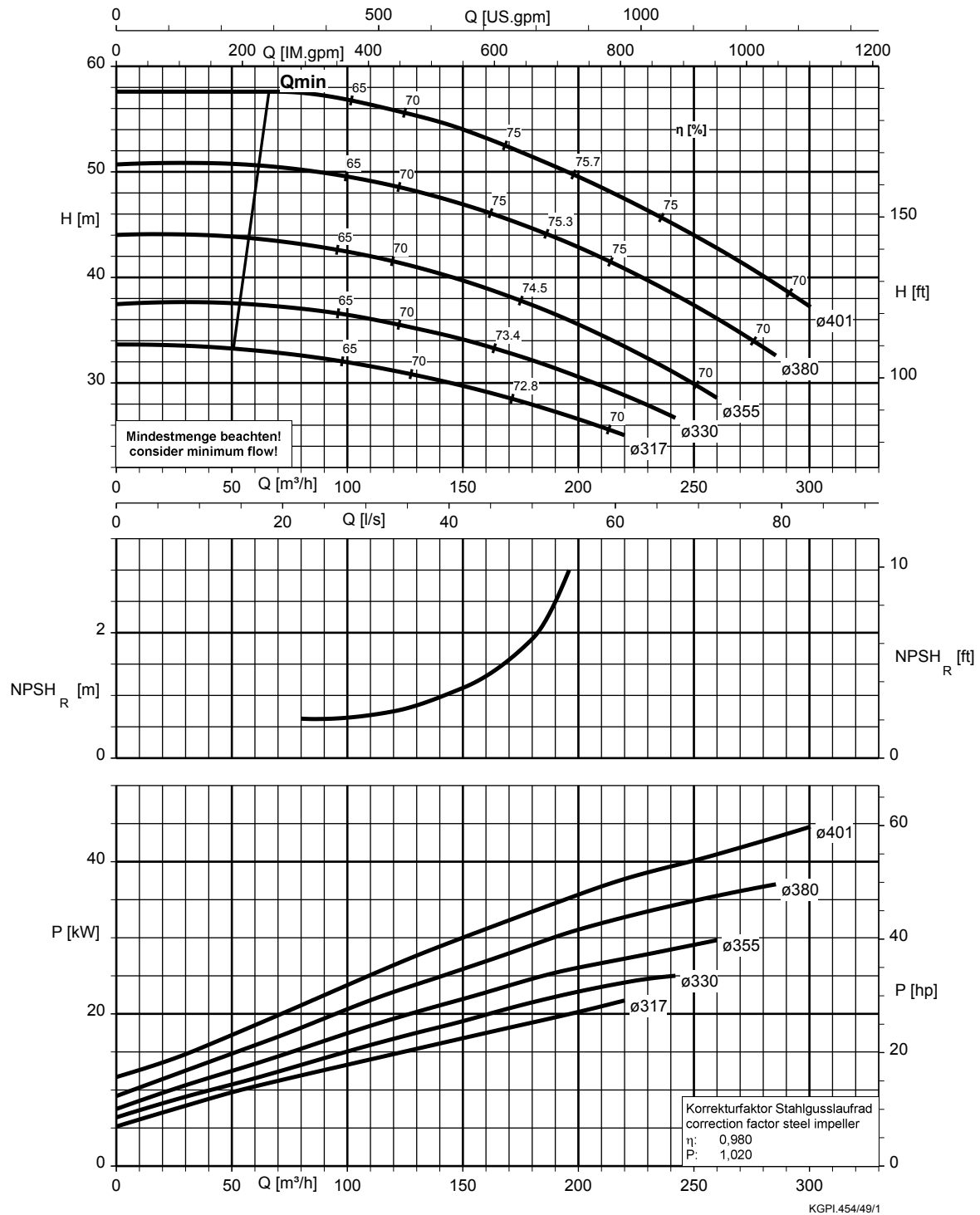
MegaCPK Inducer 125-100-250, $n = 1450 \text{ min}^{-1}$



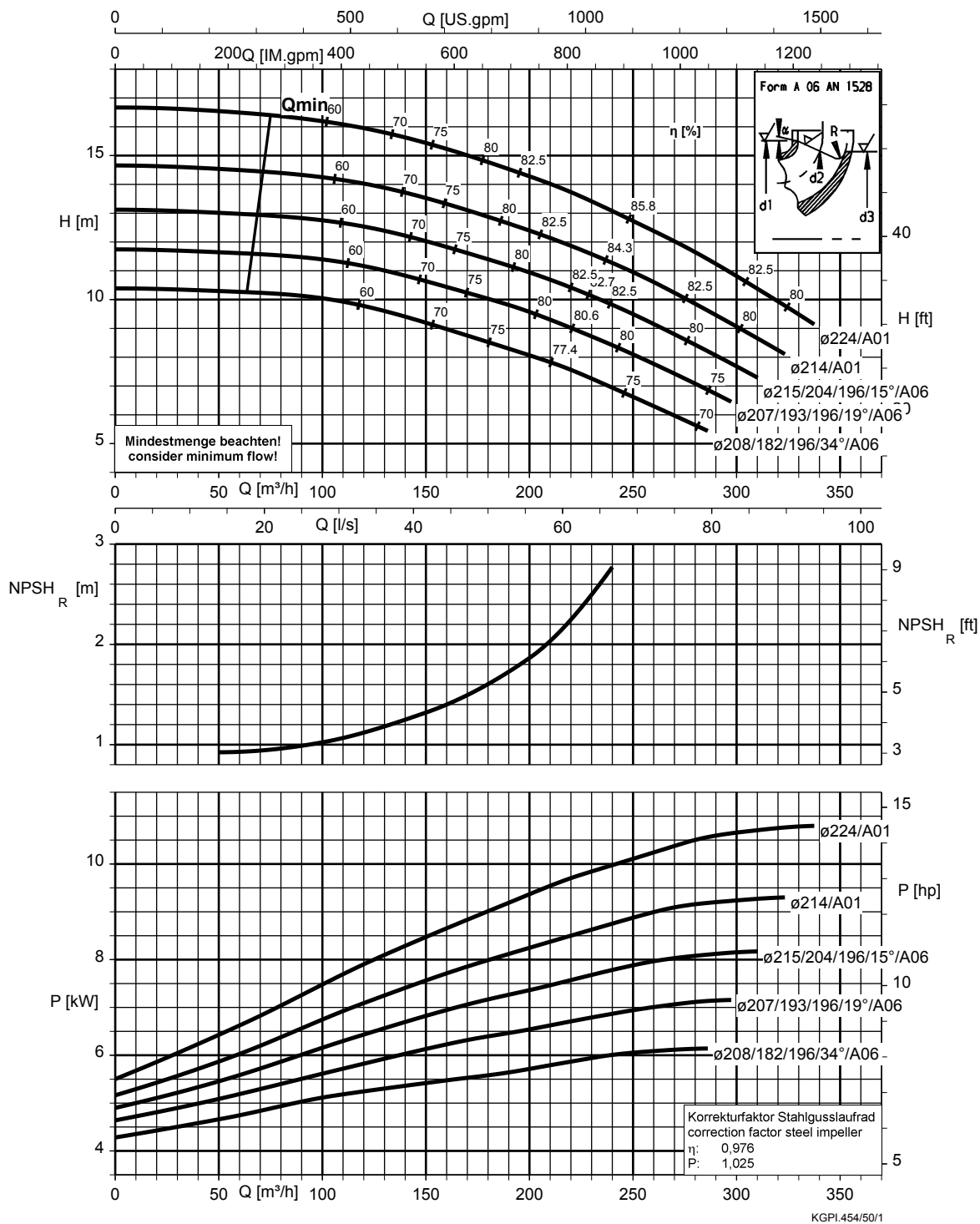
MegaCPK Inducer 125-100-315, $n = 1450 \text{ min}^{-1}$



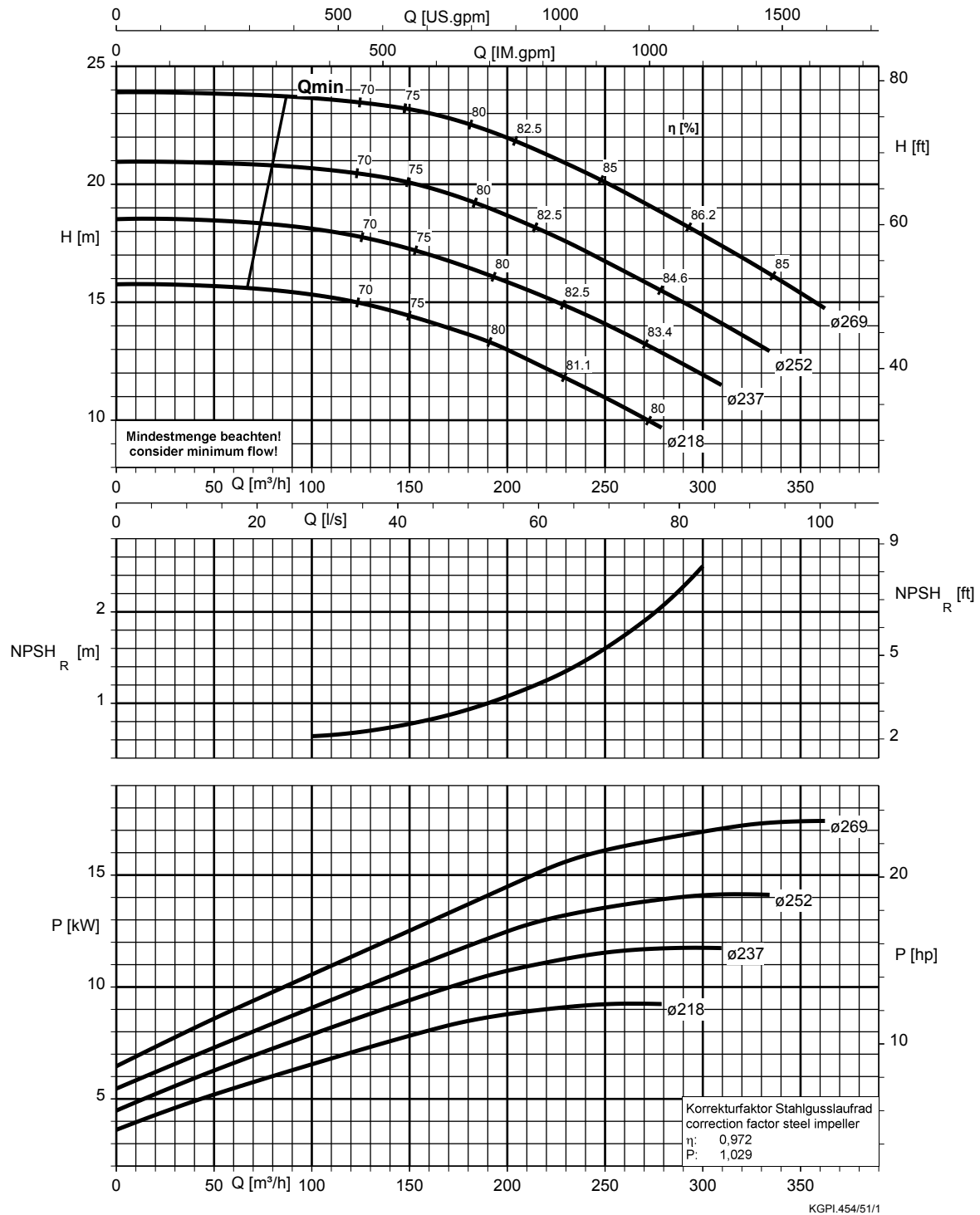
MegaCPK Inducer 125-100-400, $n = 1450 \text{ min}^{-1}$



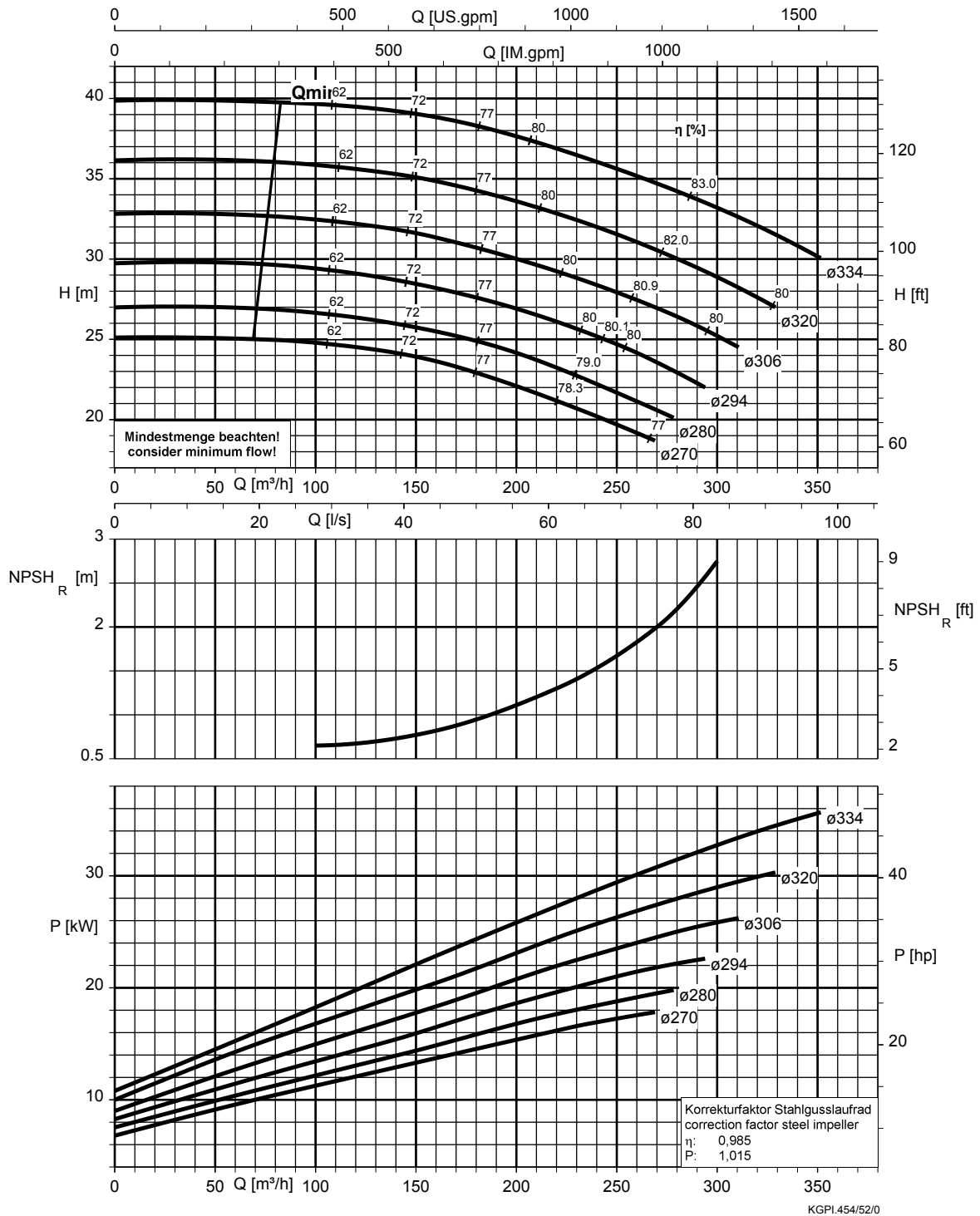
MegaCPK Inducer 150-125-200, $n = 1450 \text{ min}^{-1}$



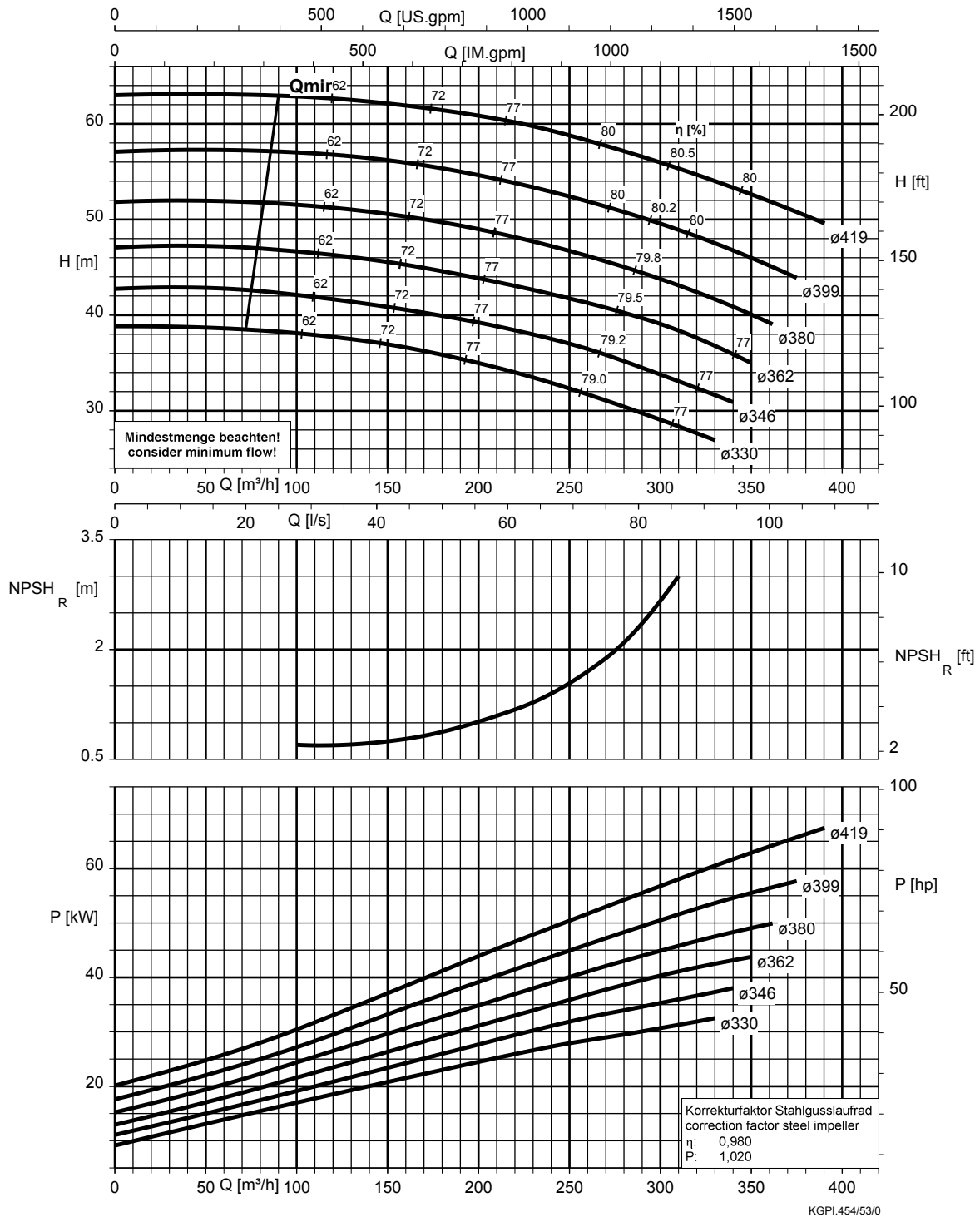
MegaCPK Inducer 150-125-250, $n = 1450 \text{ min}^{-1}$



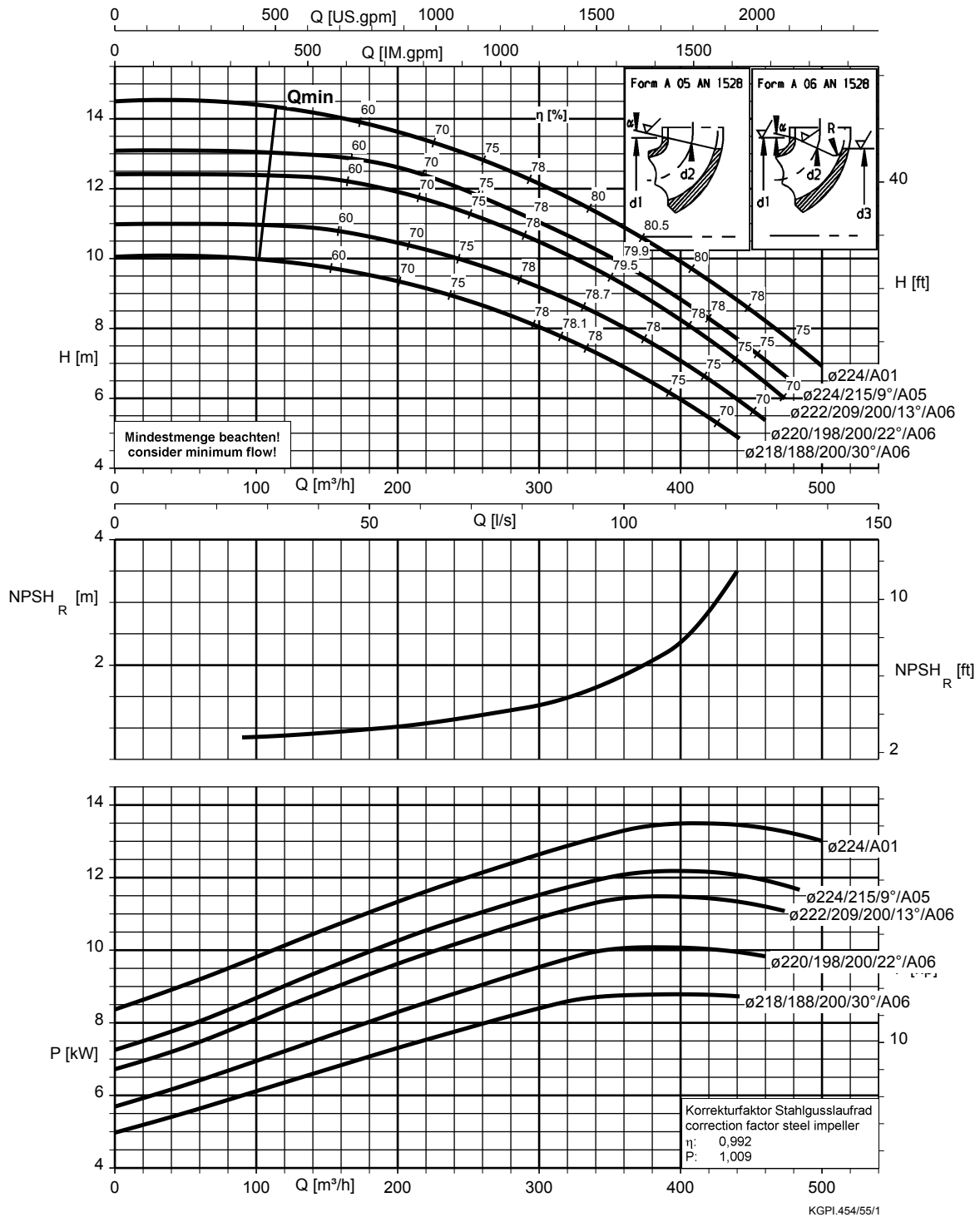
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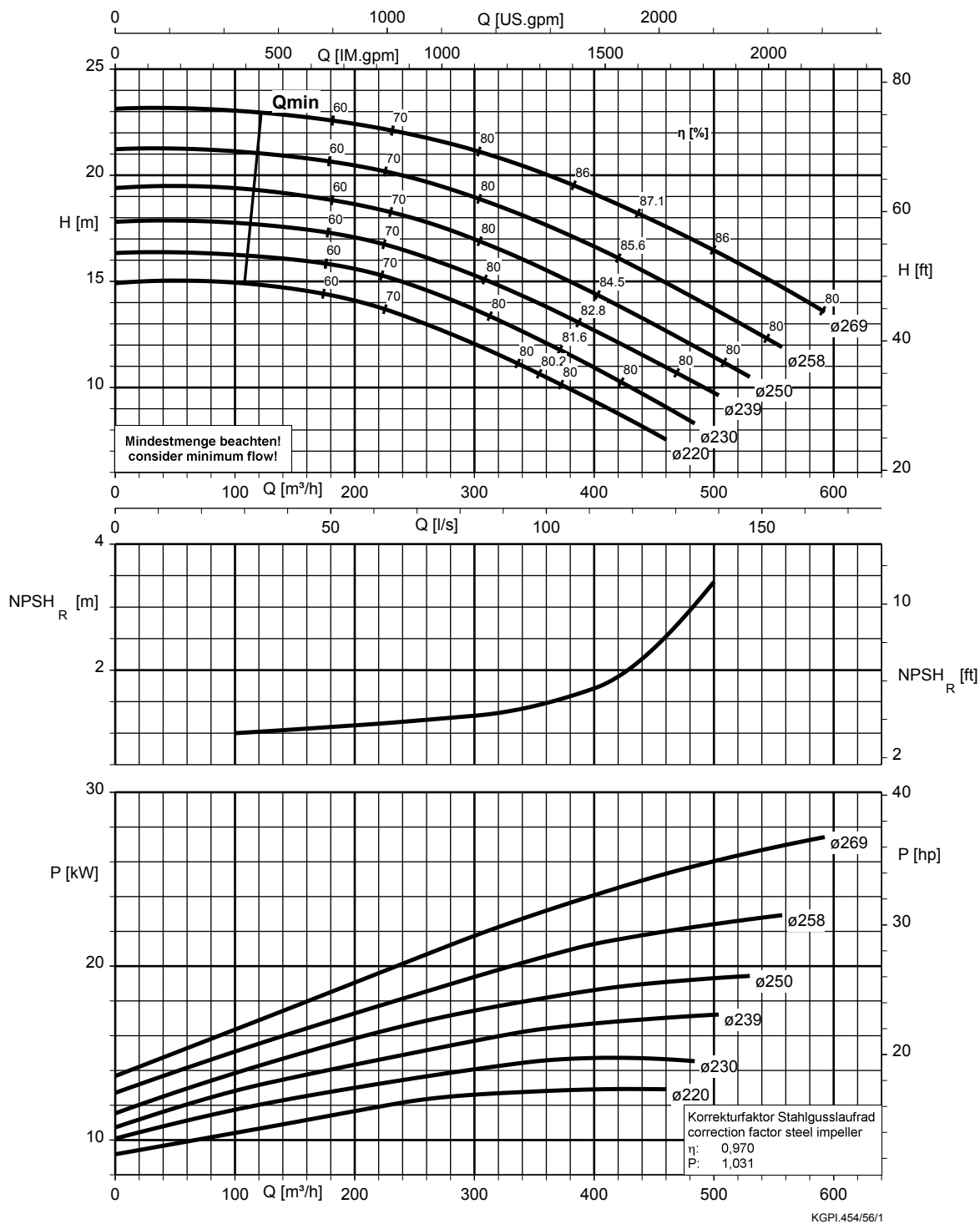
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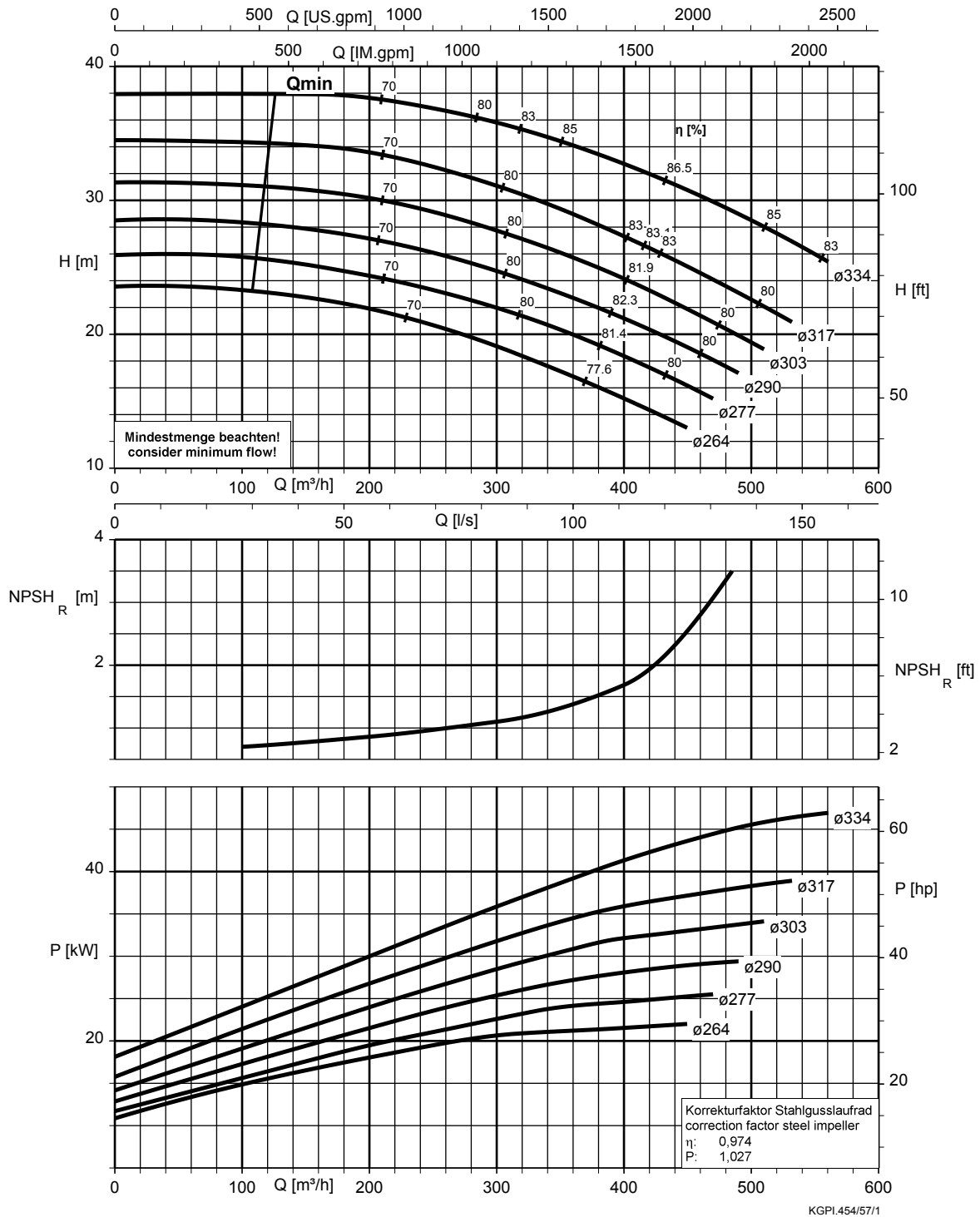
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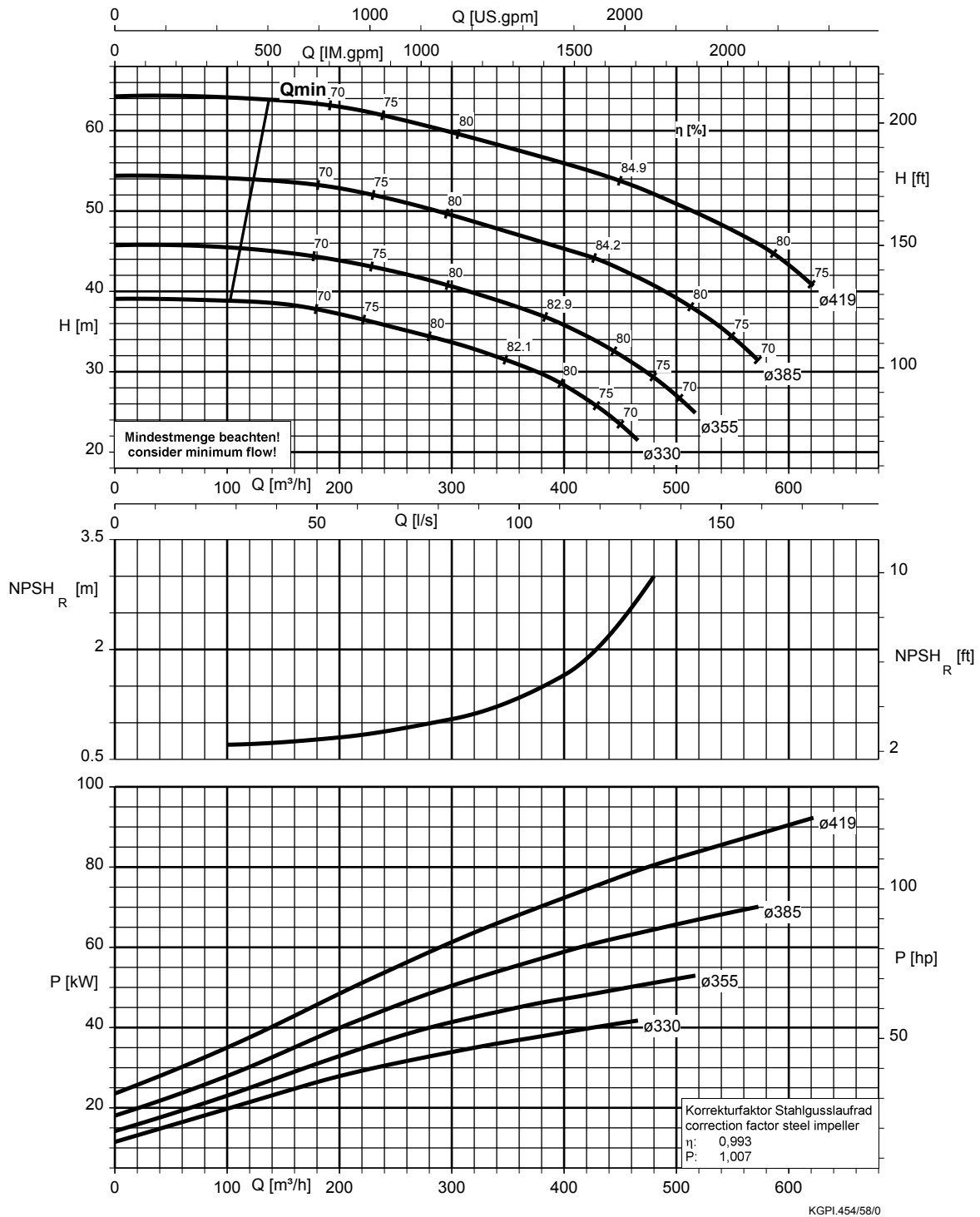
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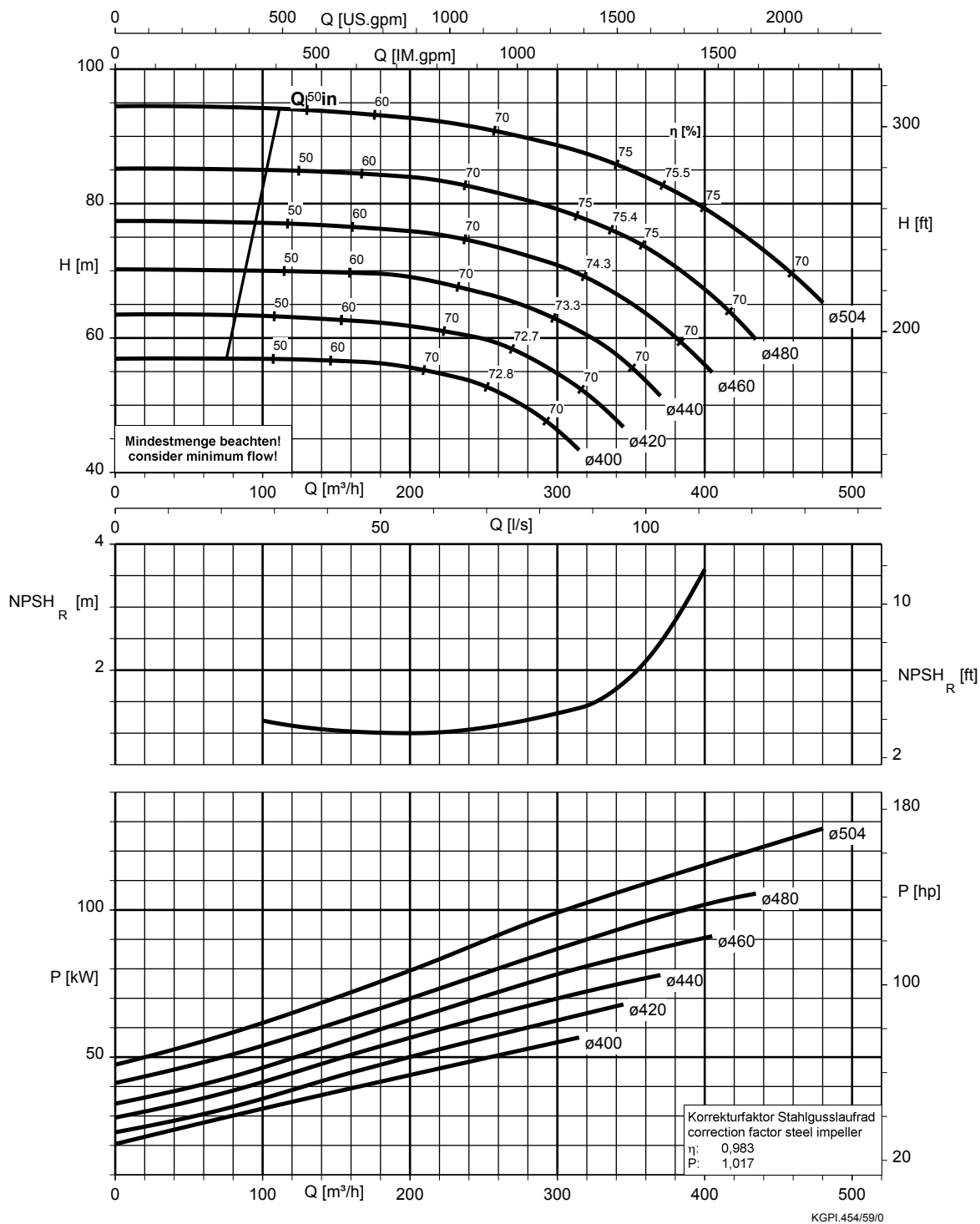
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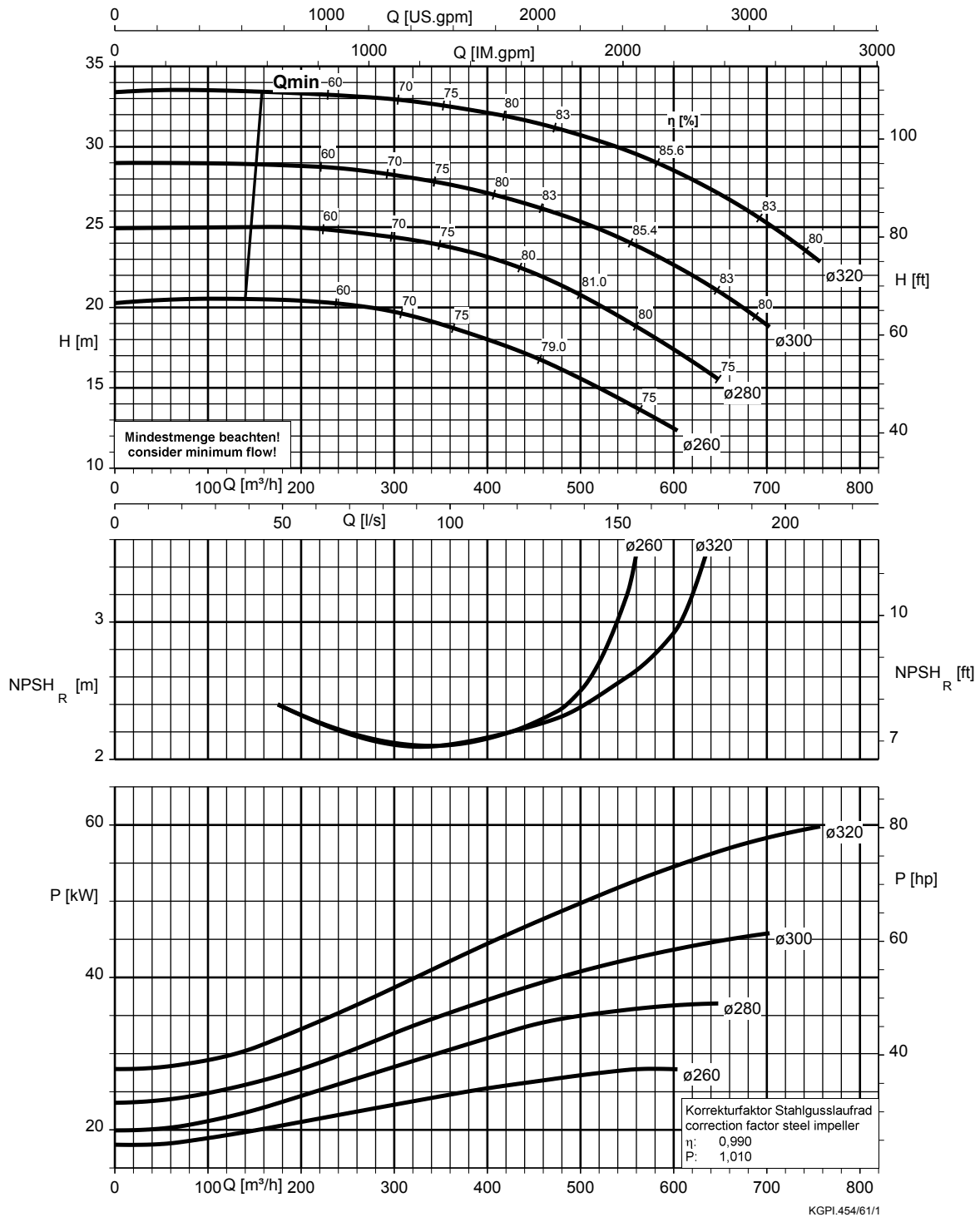
MegaCPK Inducer 200-150-400, $n = 1450 \text{ min}^{-1}$



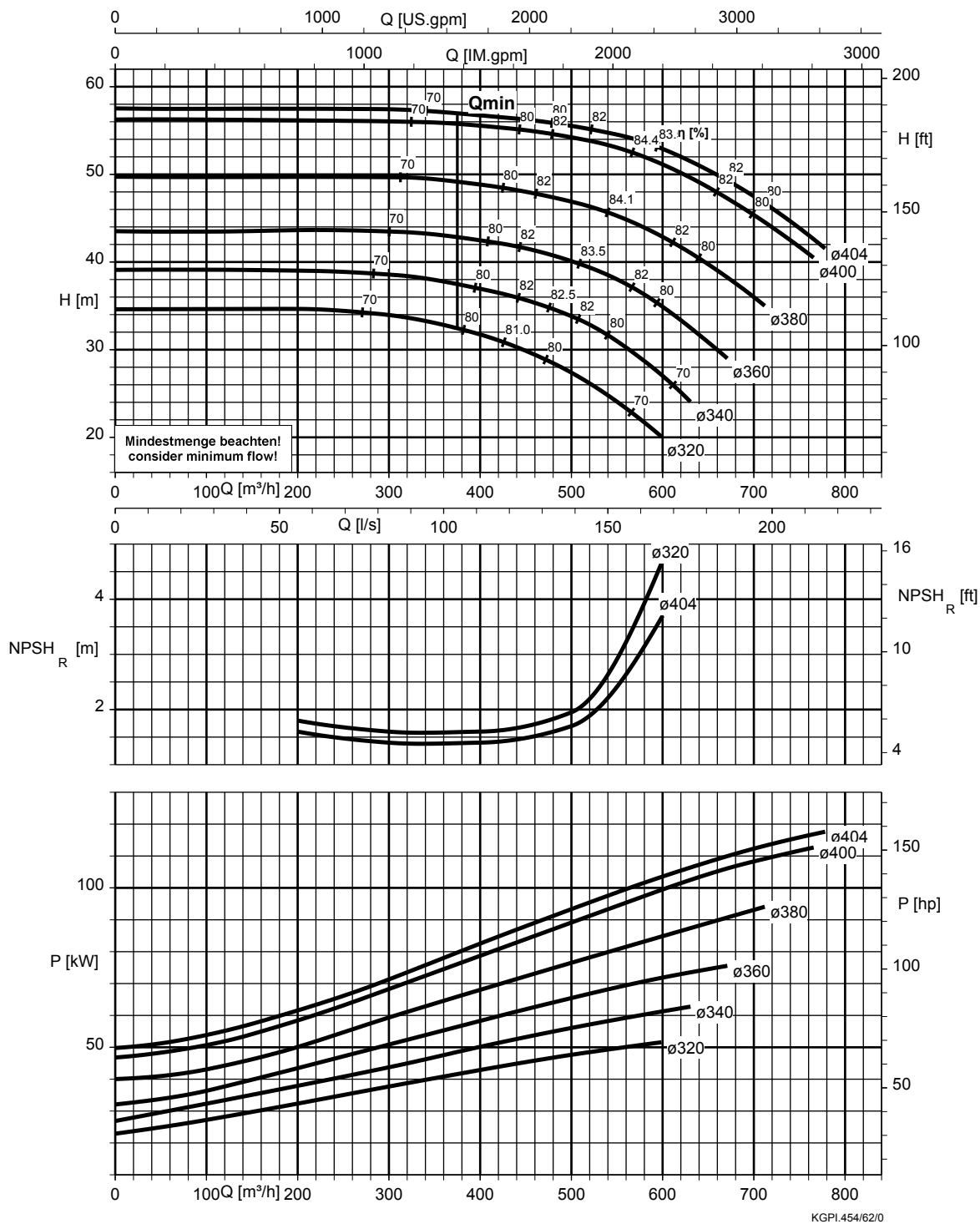
MegaCPK Inducer 200-150-500, $n = 1450 \text{ min}^{-1}$



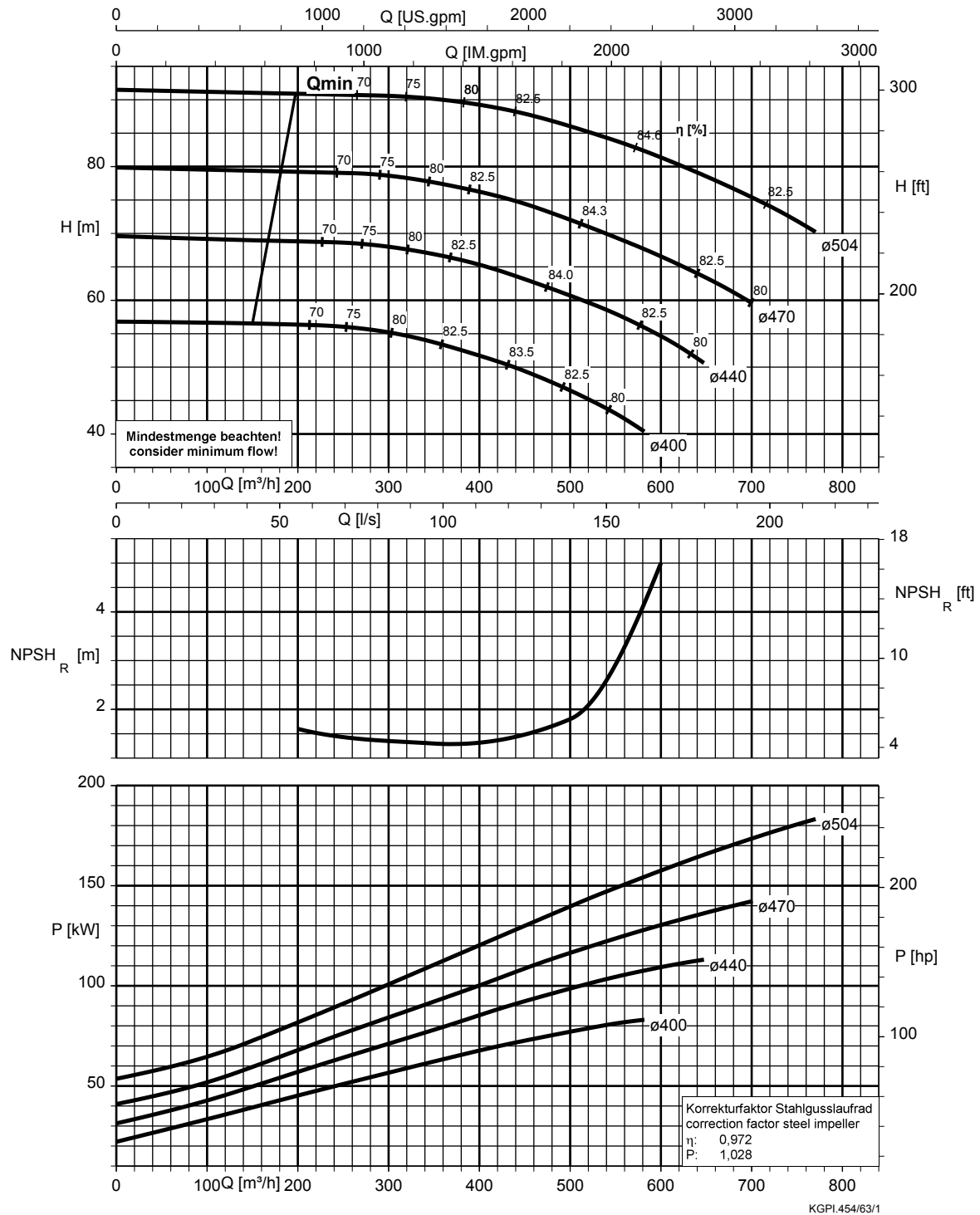
MegaCPK Inducer 250-200-315, $n = 1450 \text{ min}^{-1}$



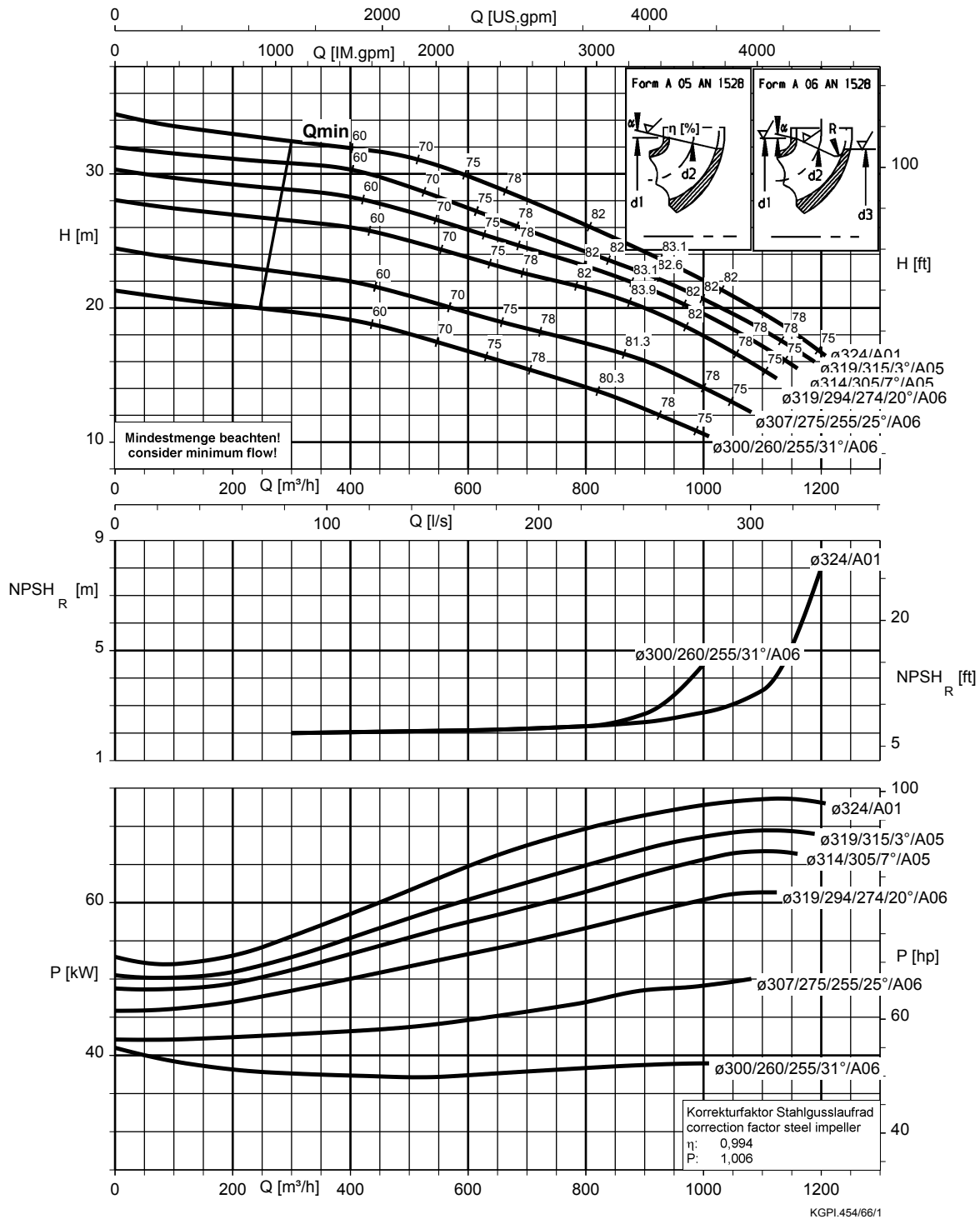
MegaCPK Inducer 250-200-400, $n = 1450 \text{ min}^{-1}$



MegaCPK Inducer 250-200-500, $n = 1450 \text{ min}^{-1}$

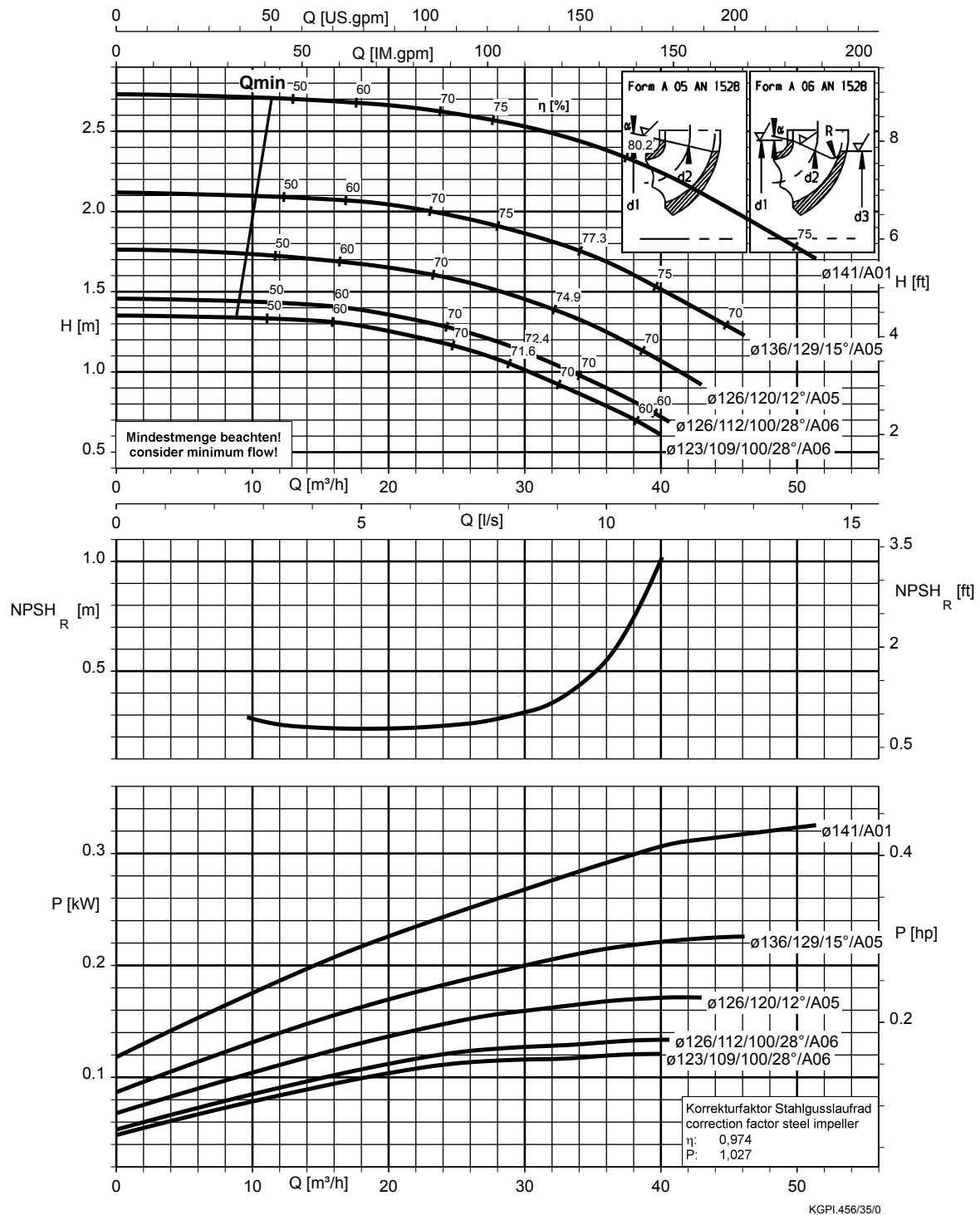


MegaCPK Inducer 300-250-315, $n = 1450 \text{ min}^{-1}$

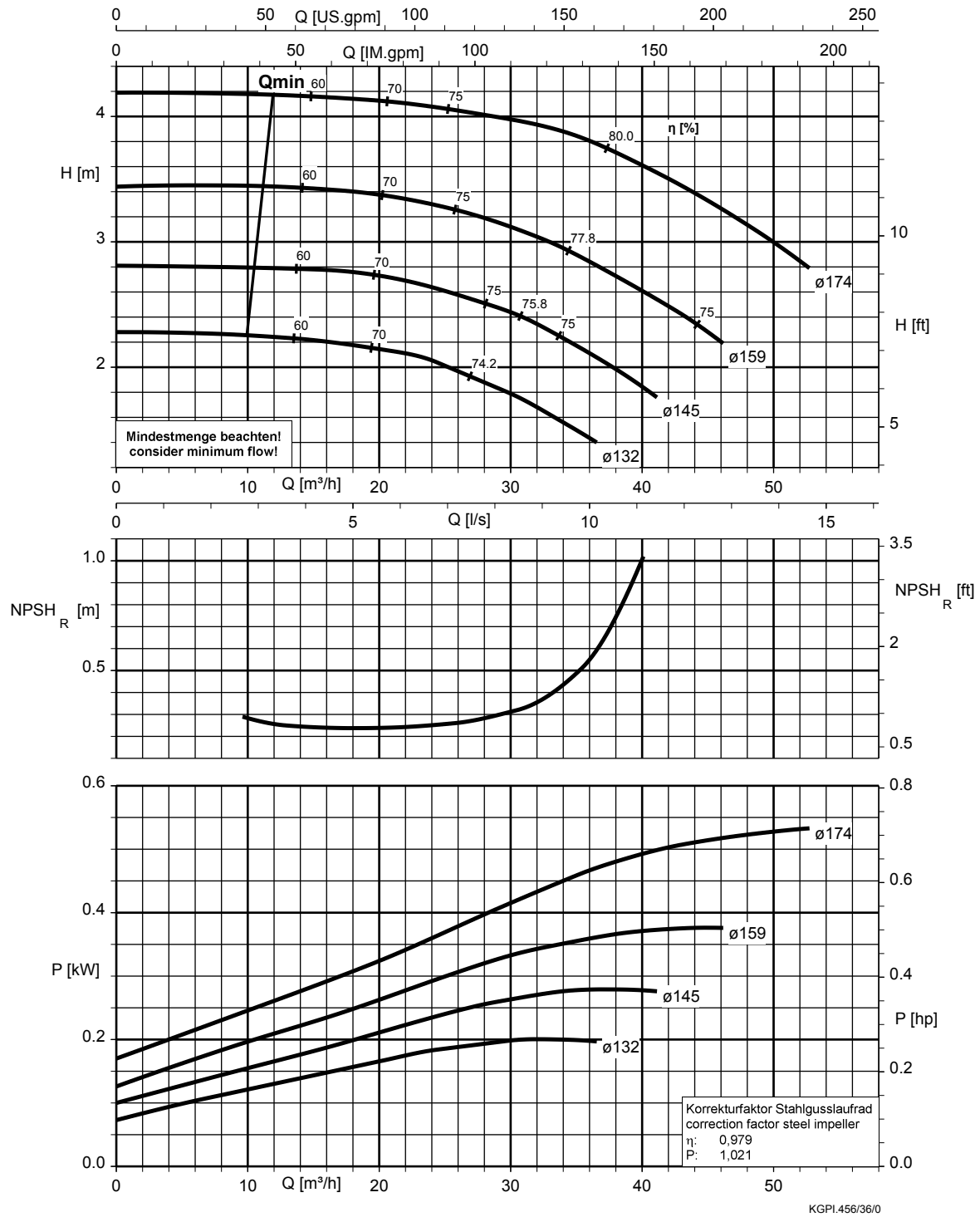


$n = 960 \text{ min}^{-1}$

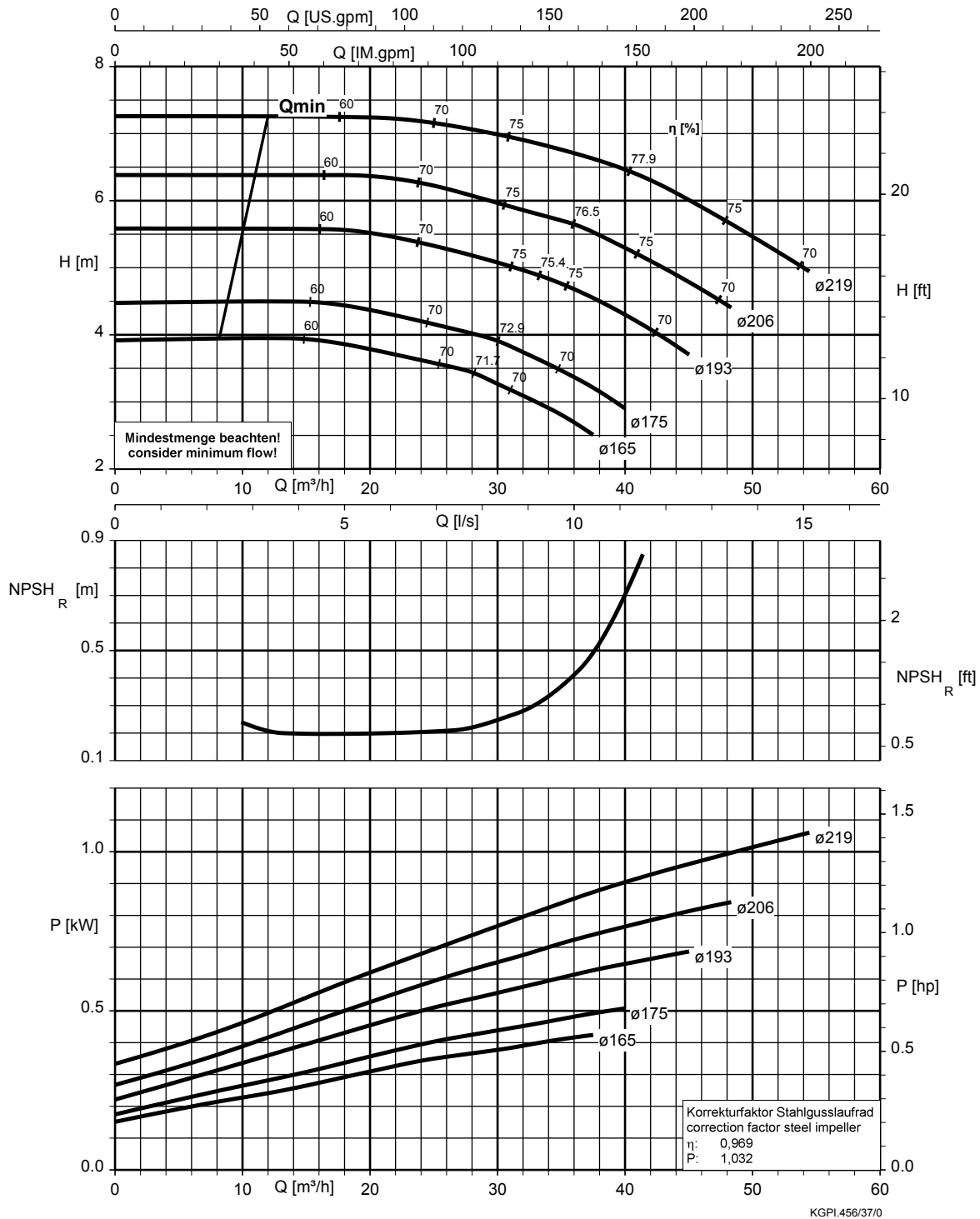
MegaCPK Inducer 100-065-125, $n = 960 \text{ min}^{-1}$



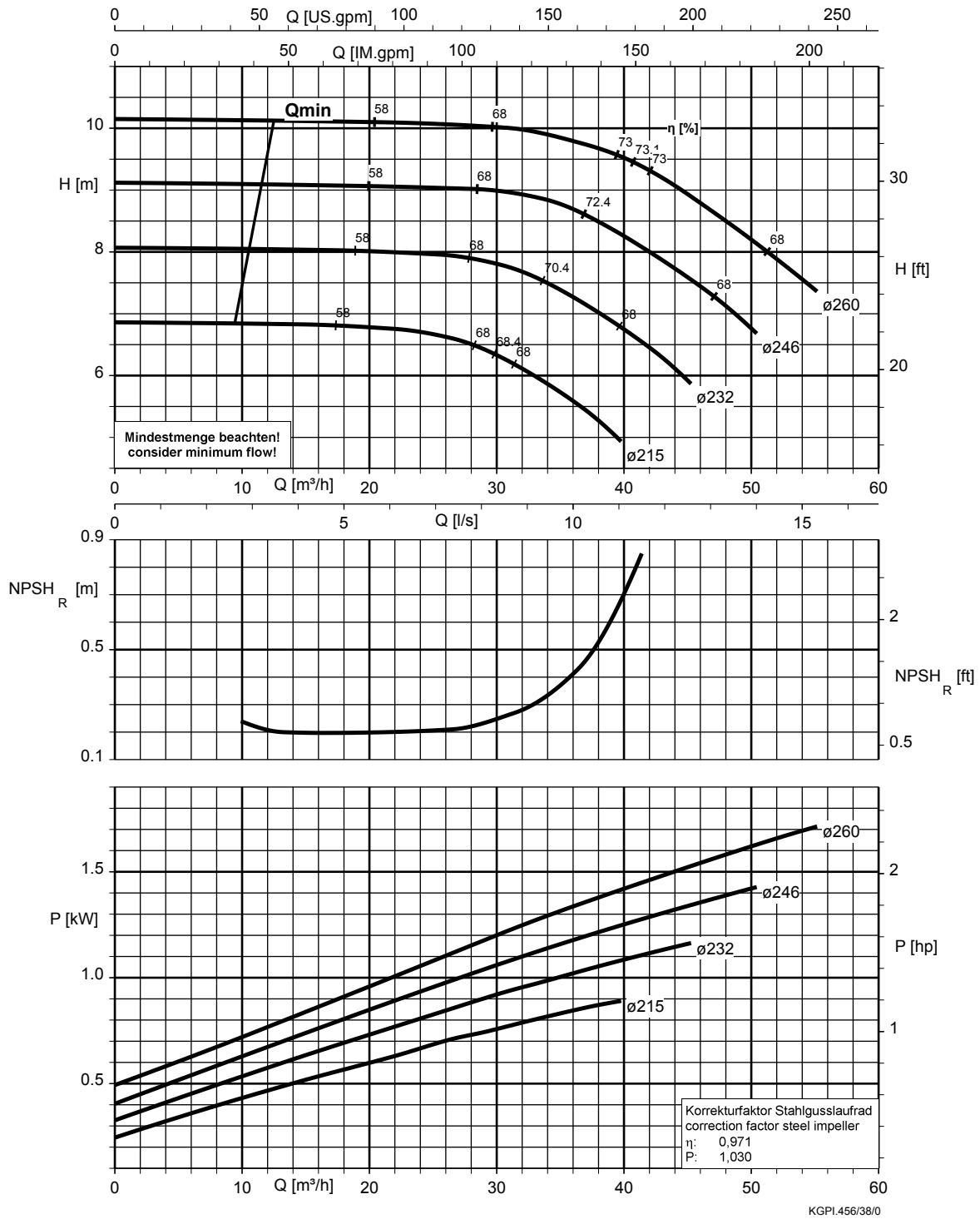
MegaCPK Inducer 100-065-160, $n = 960 \text{ min}^{-1}$



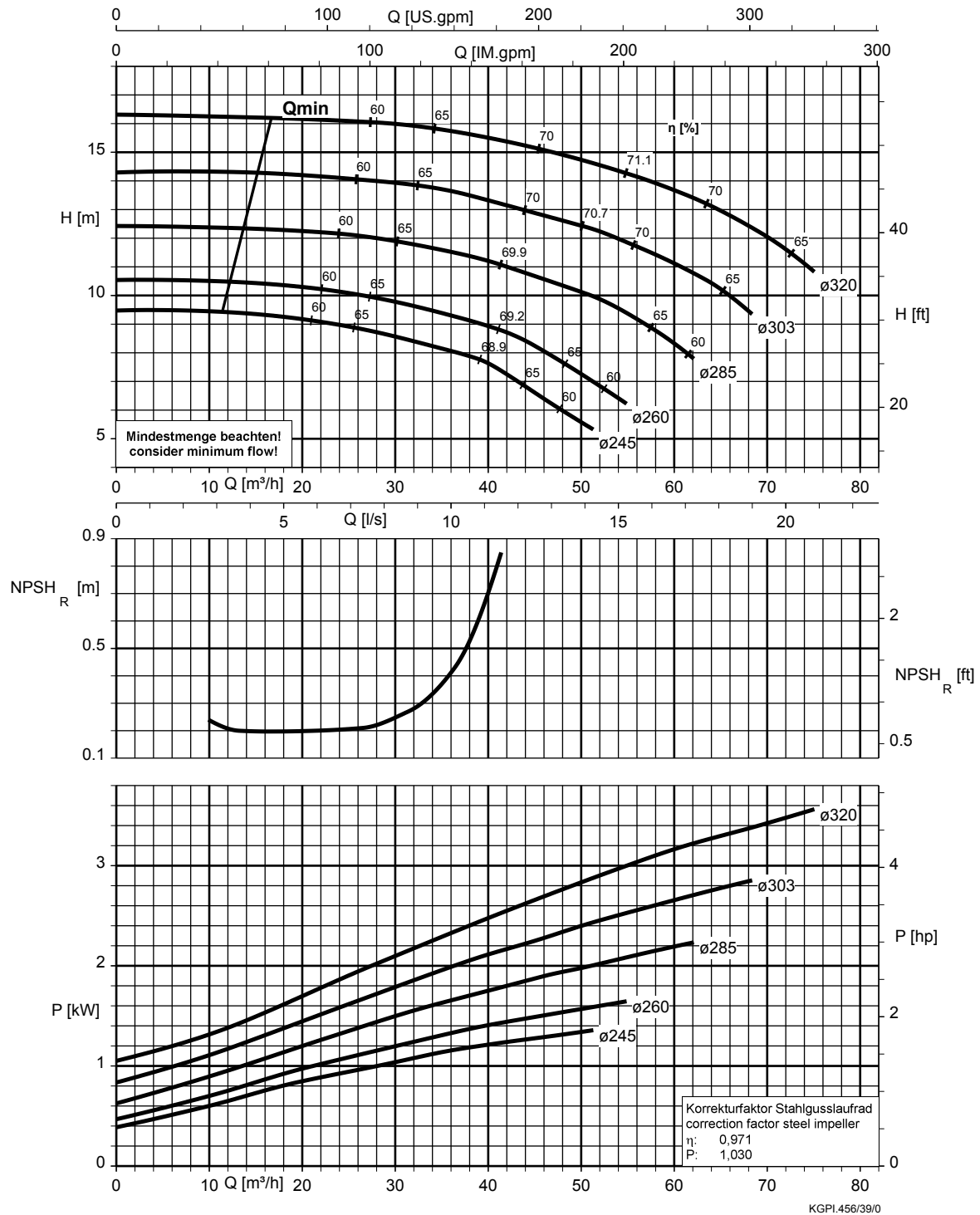
MegaCPK Inducer 100-065-200, $n = 960 \text{ min}^{-1}$



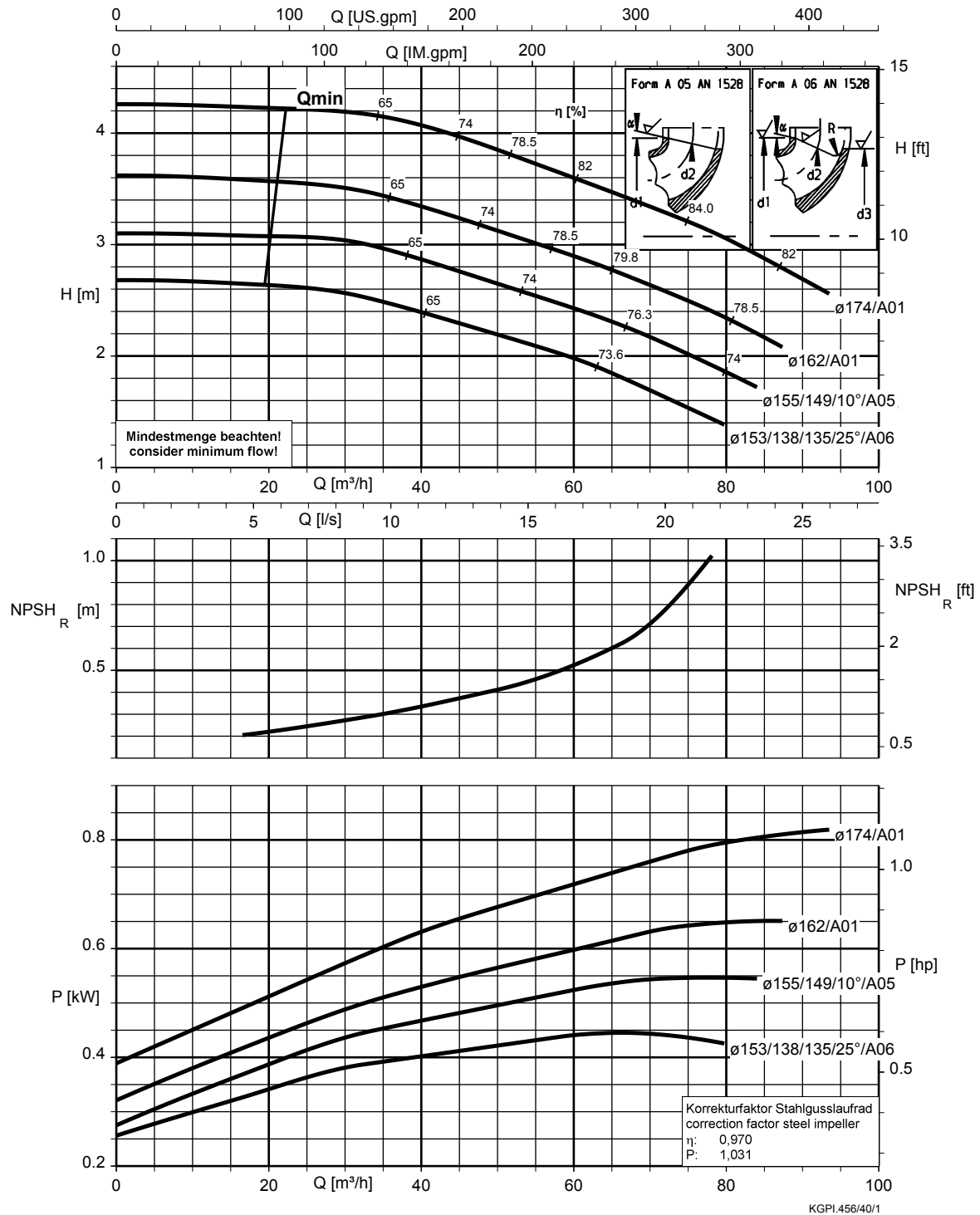
MegaCPK Inducer 100-065-250, $n = 960 \text{ min}^{-1}$



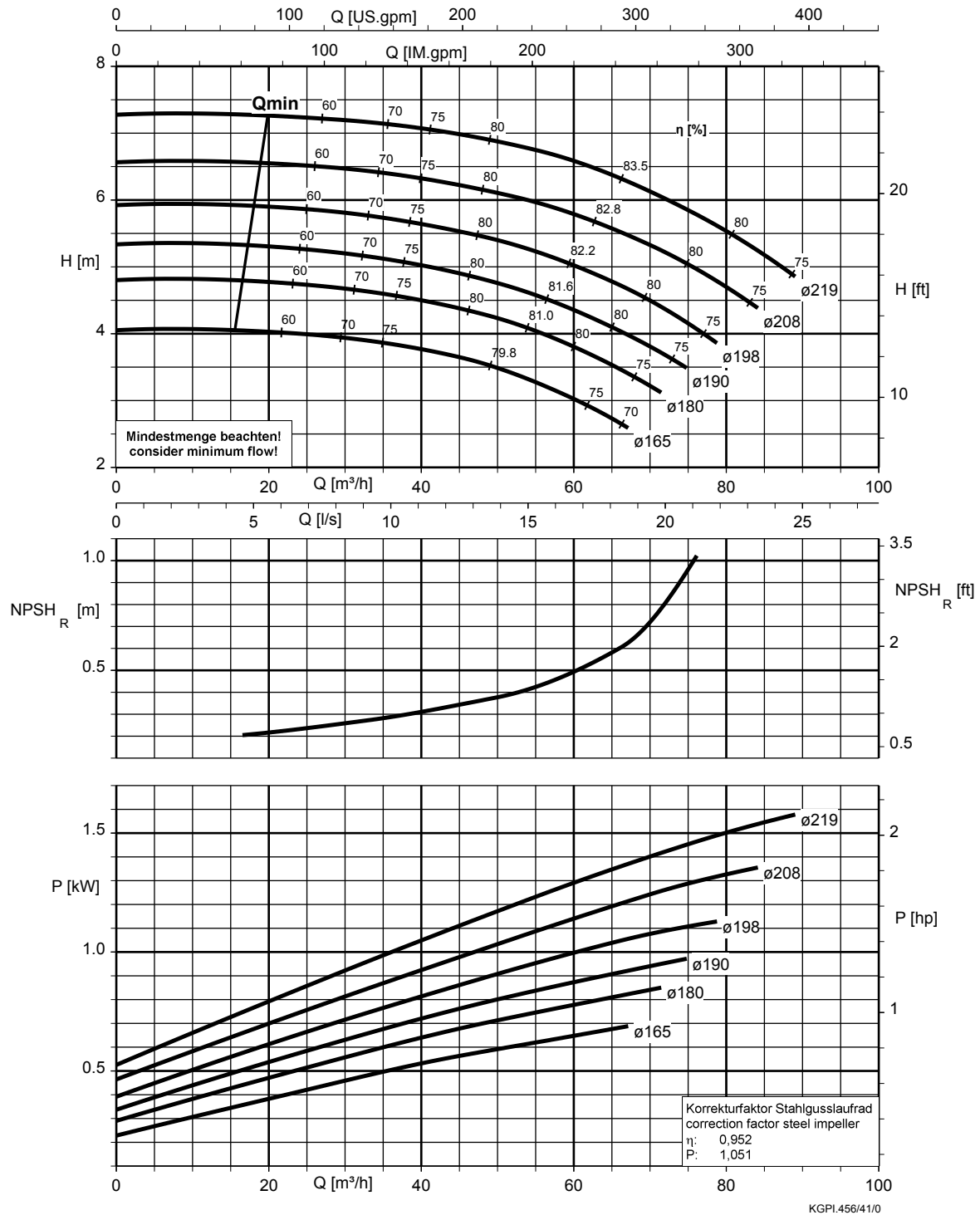
MegaCPK Inducer 100-065-315, $n = 960 \text{ min}^{-1}$



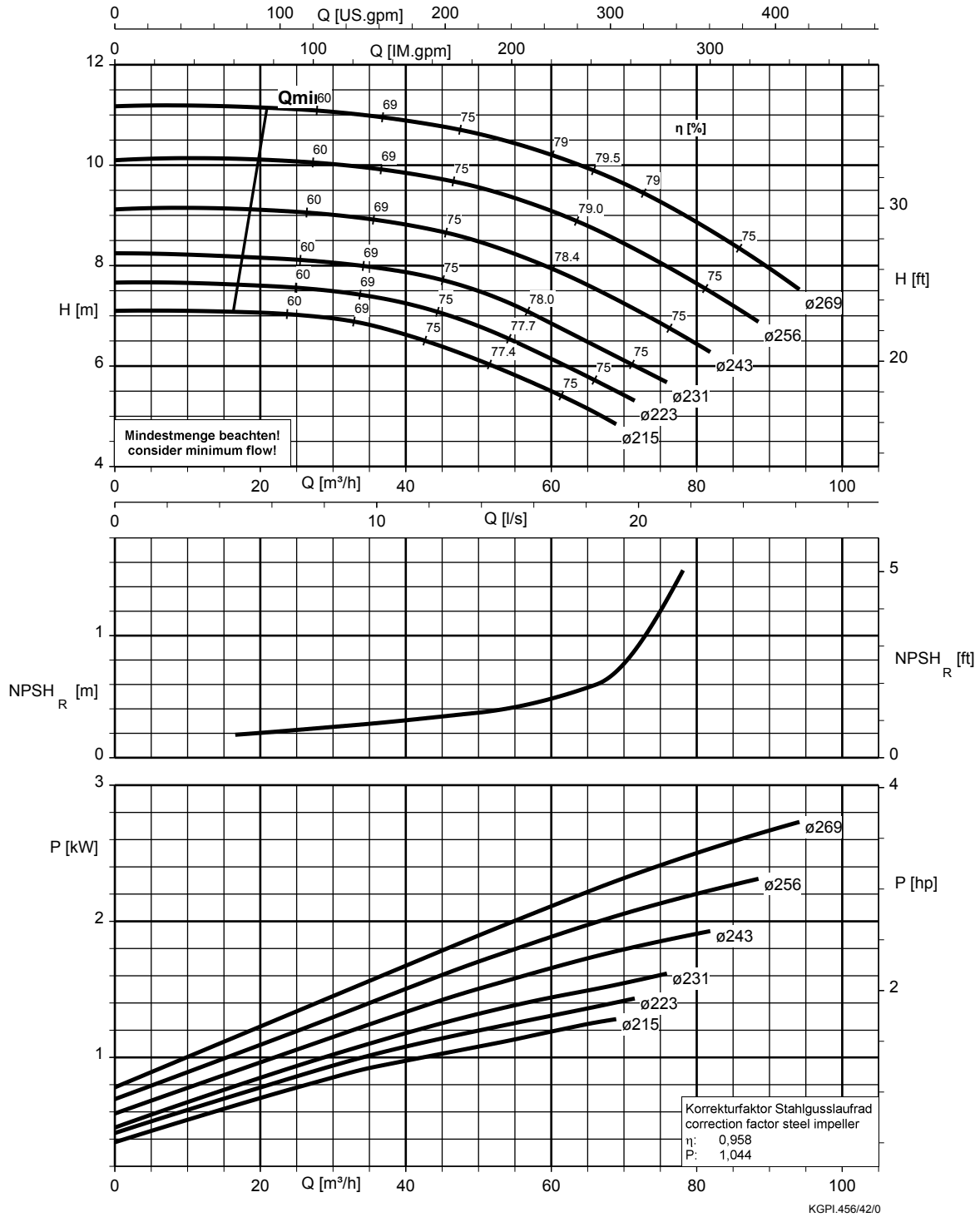
MegaCPK Inducer 125-080-160, $n = 960 \text{ min}^{-1}$



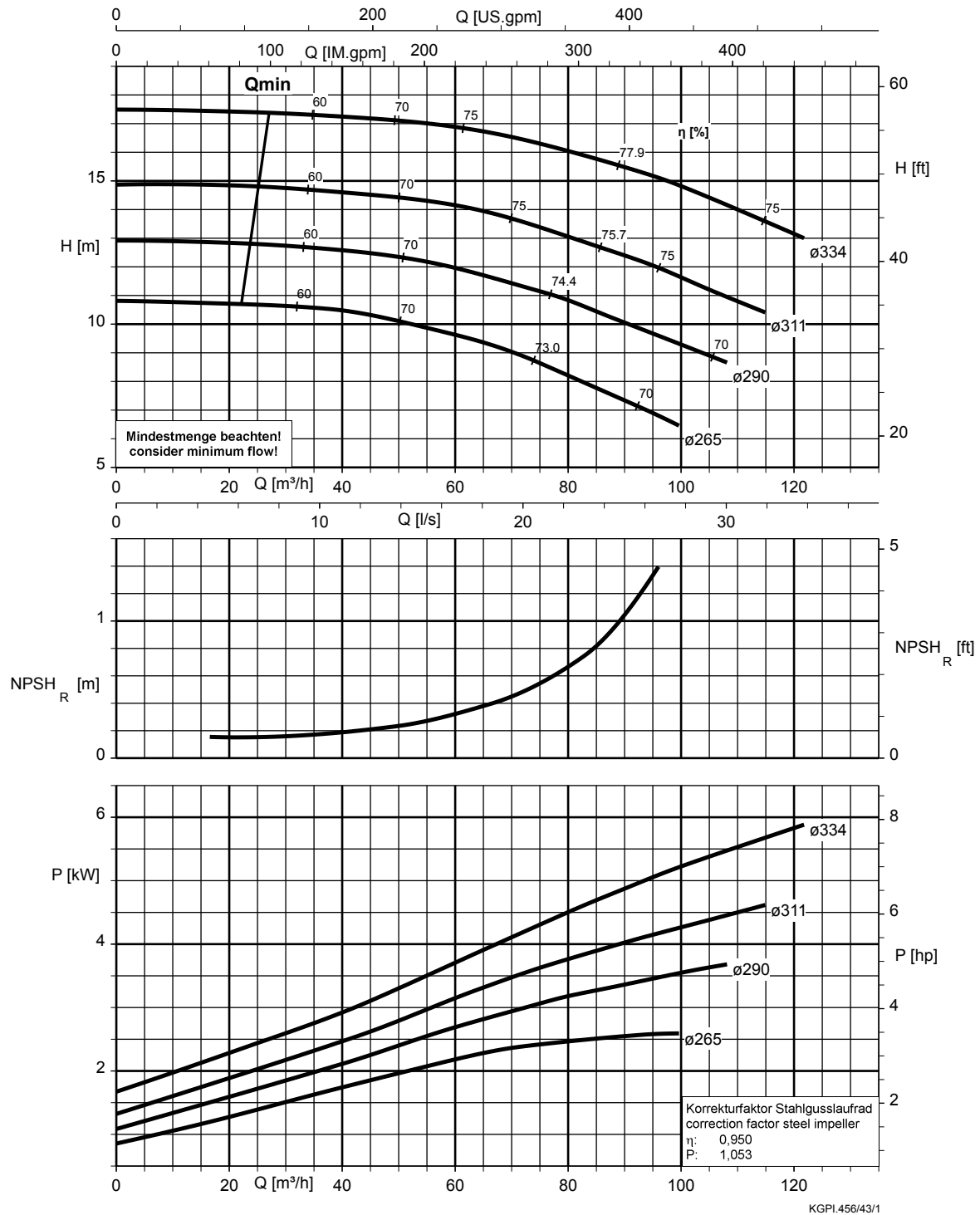
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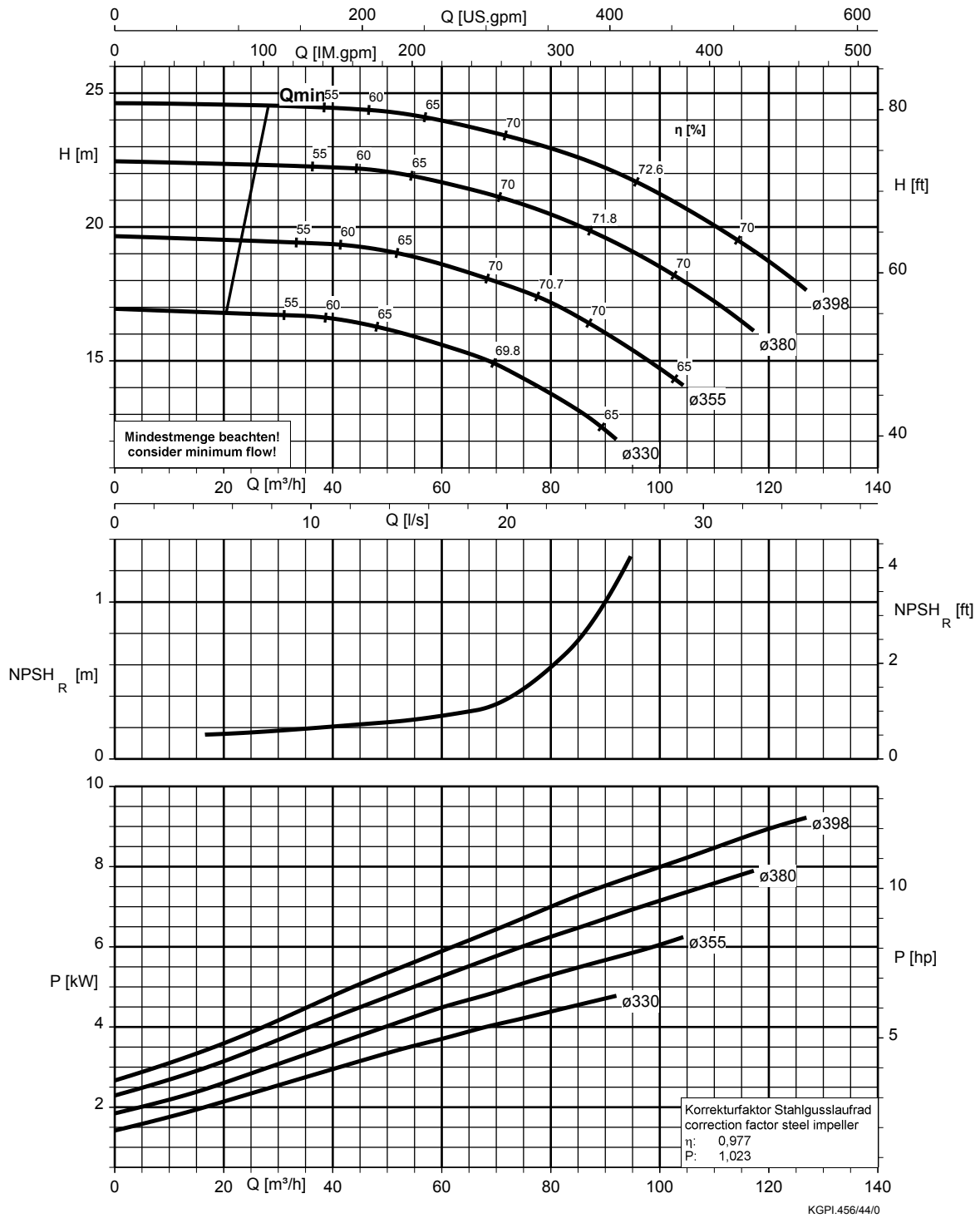
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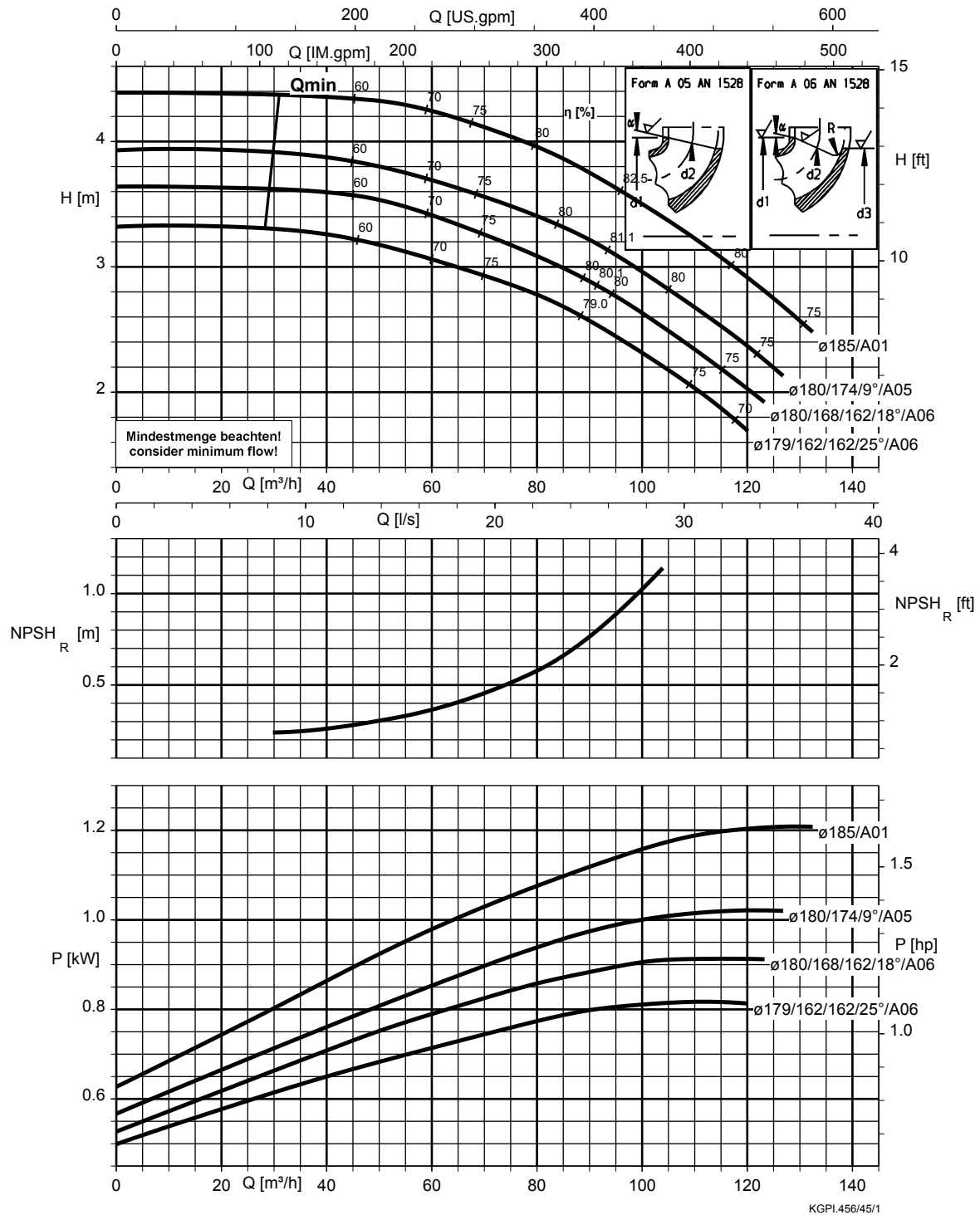
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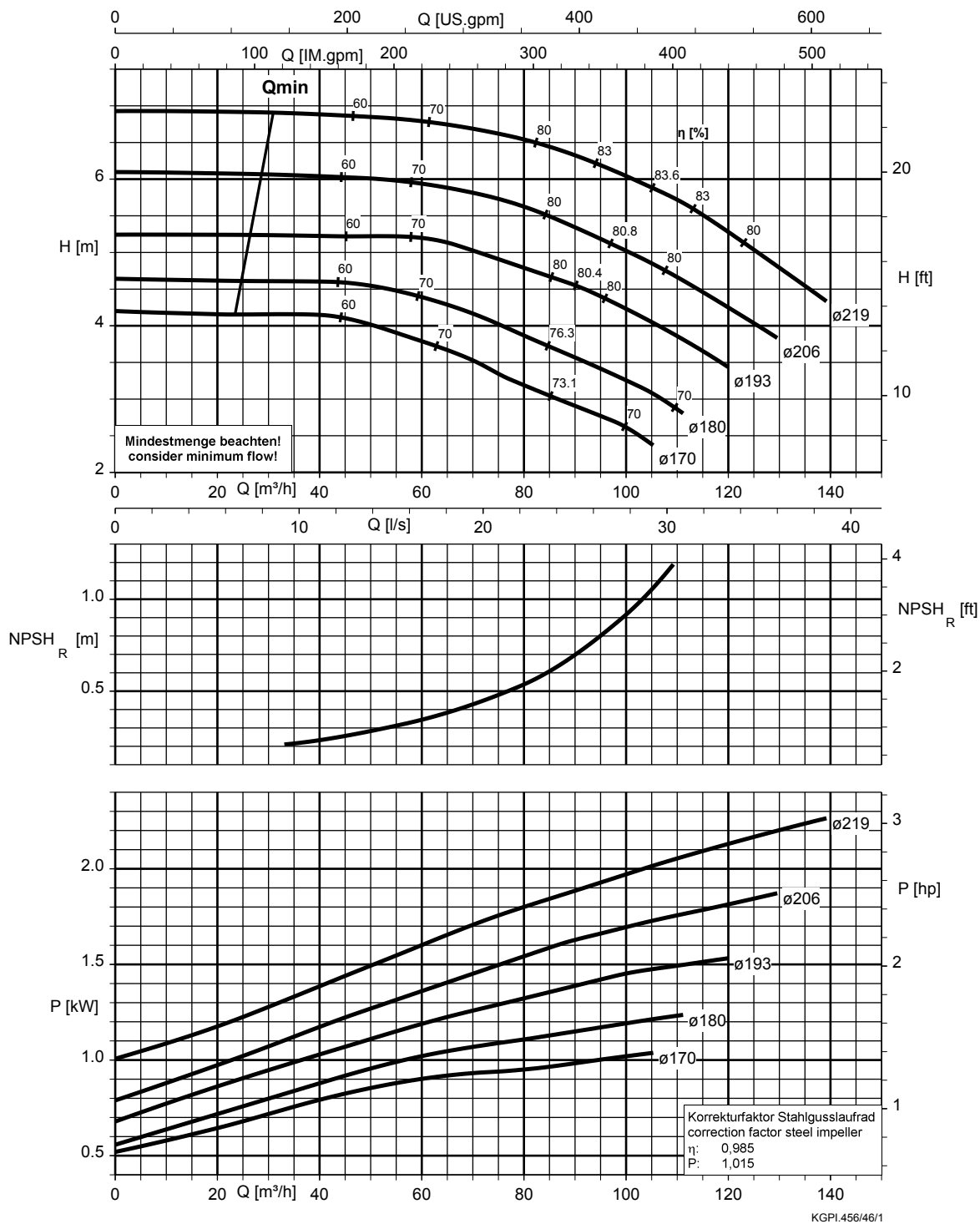
MegaCPK Inducer 125-080-400, $n = 960 \text{ min}^{-1}$



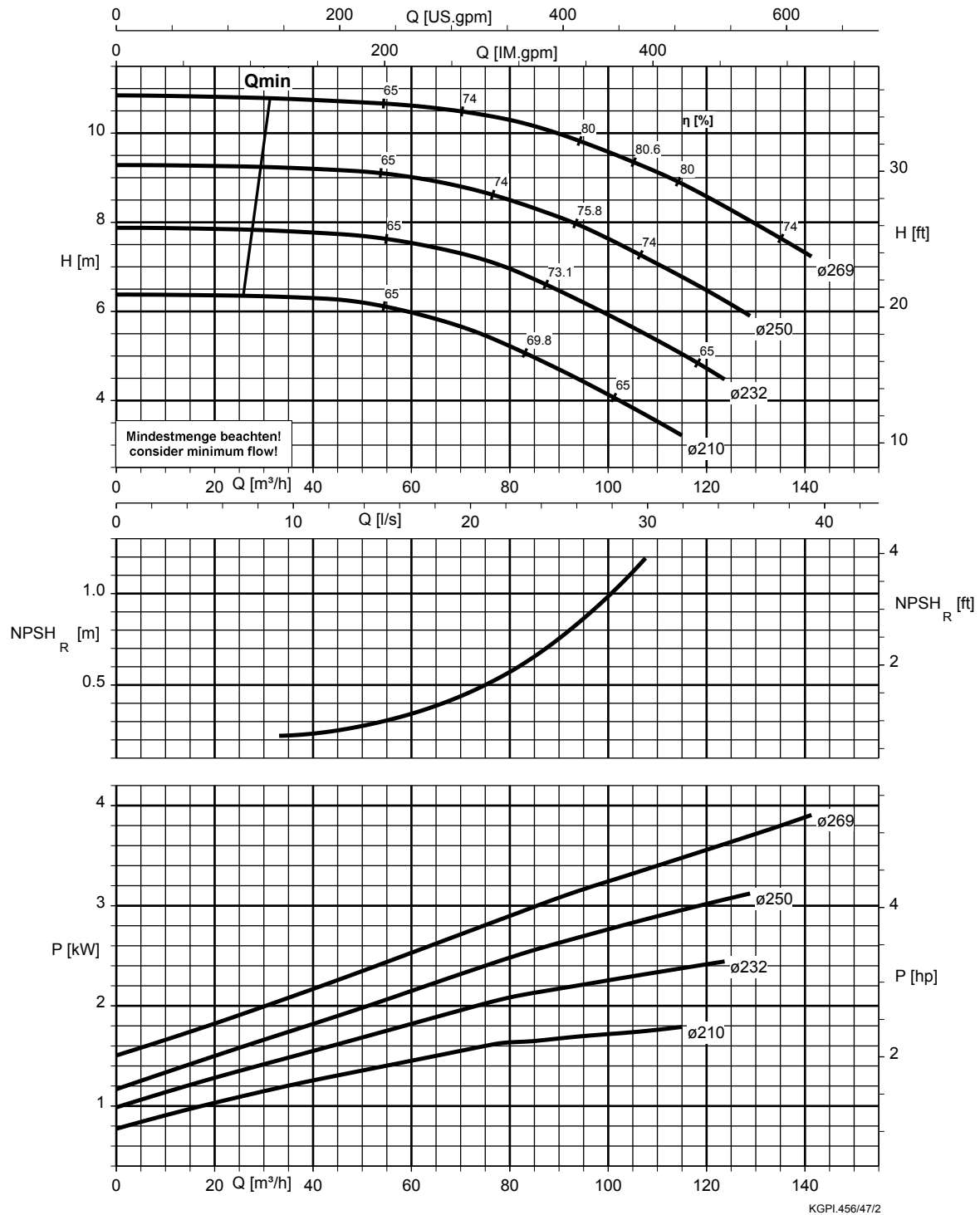
MegaCPK Inducer 125-100-160, $n = 960 \text{ min}^{-1}$



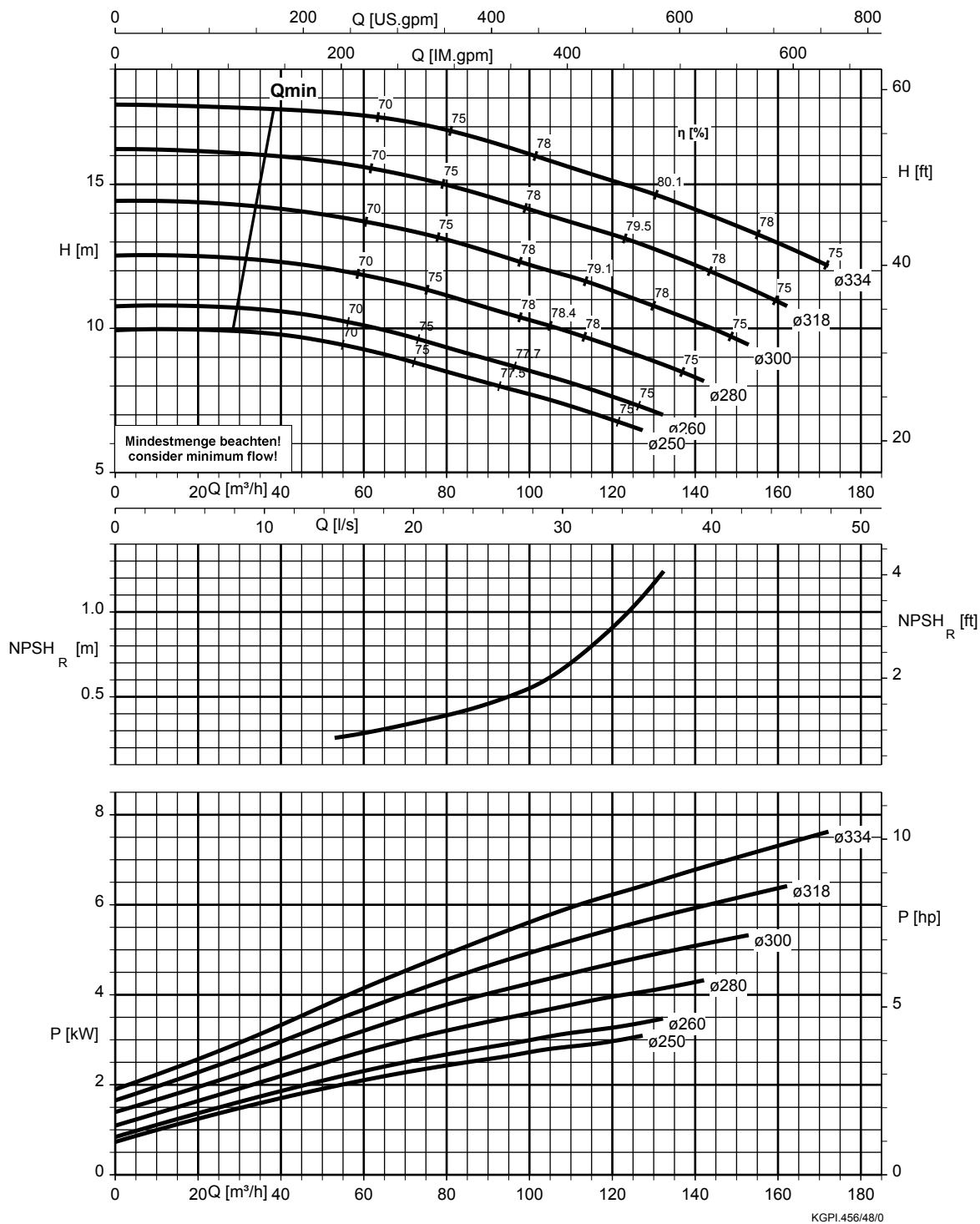
MegaCPK Inducer 125-100-200, $n = 960 \text{ min}^{-1}$



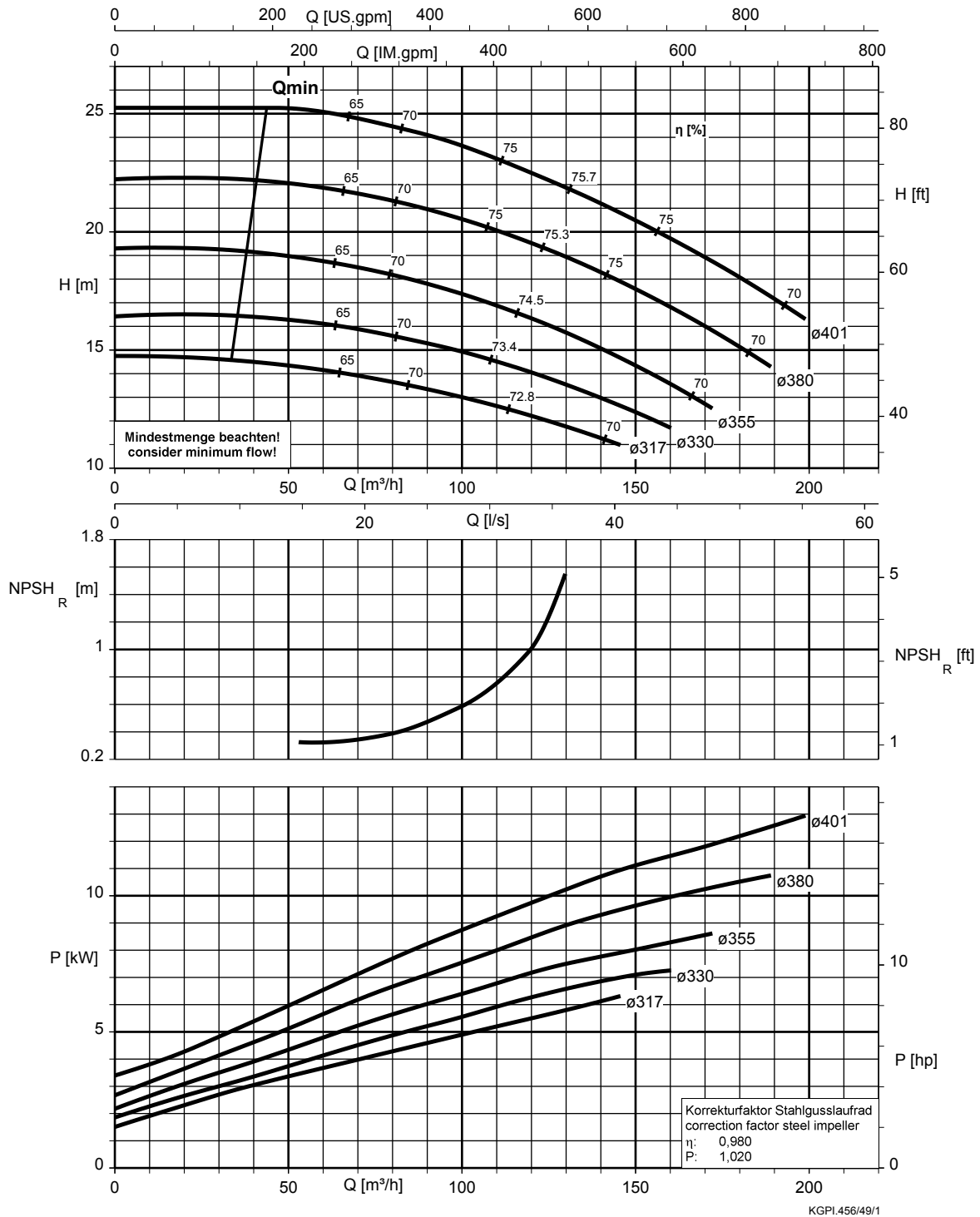
MegaCPK Inducer 125-100-250, $n = 960 \text{ min}^{-1}$



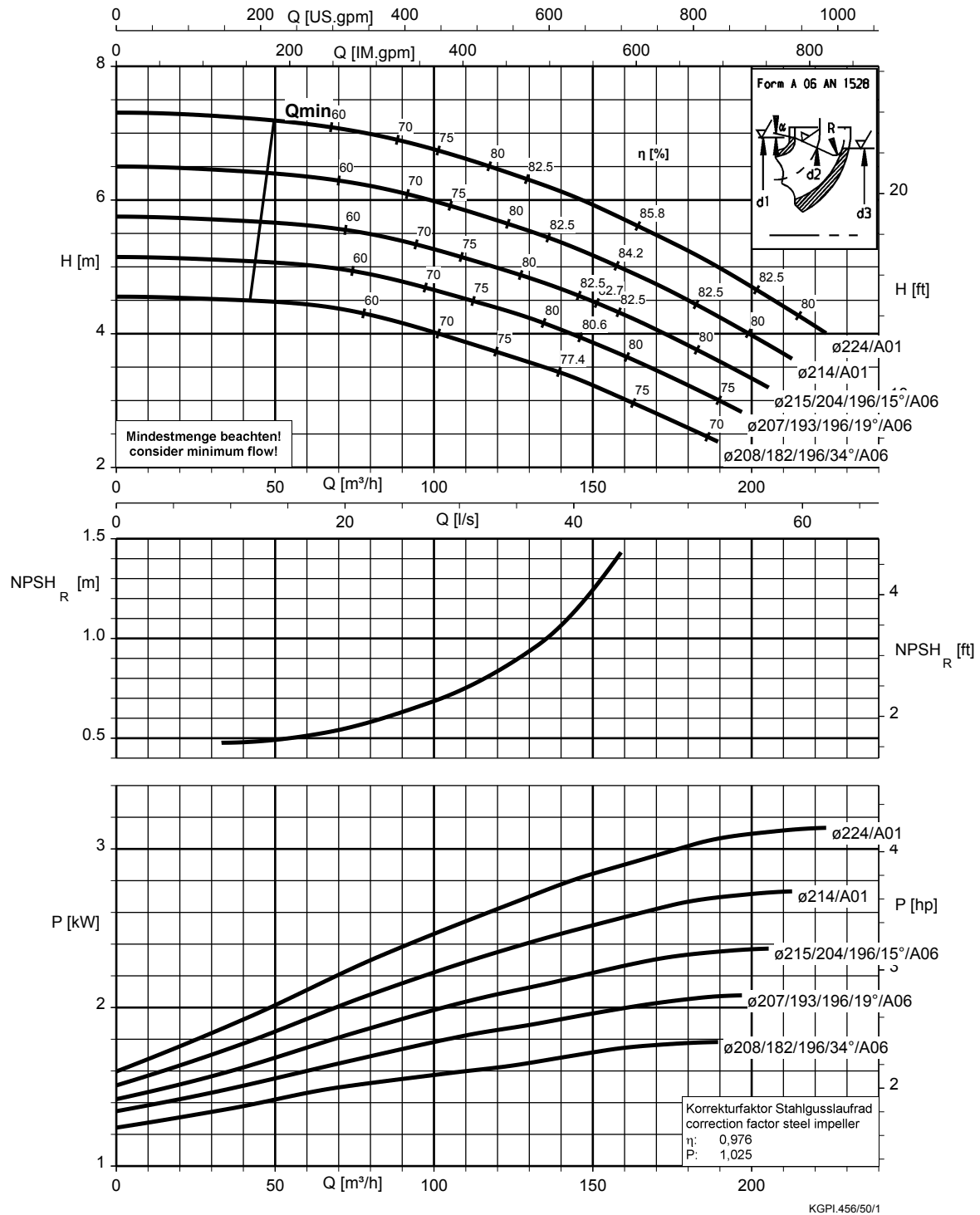
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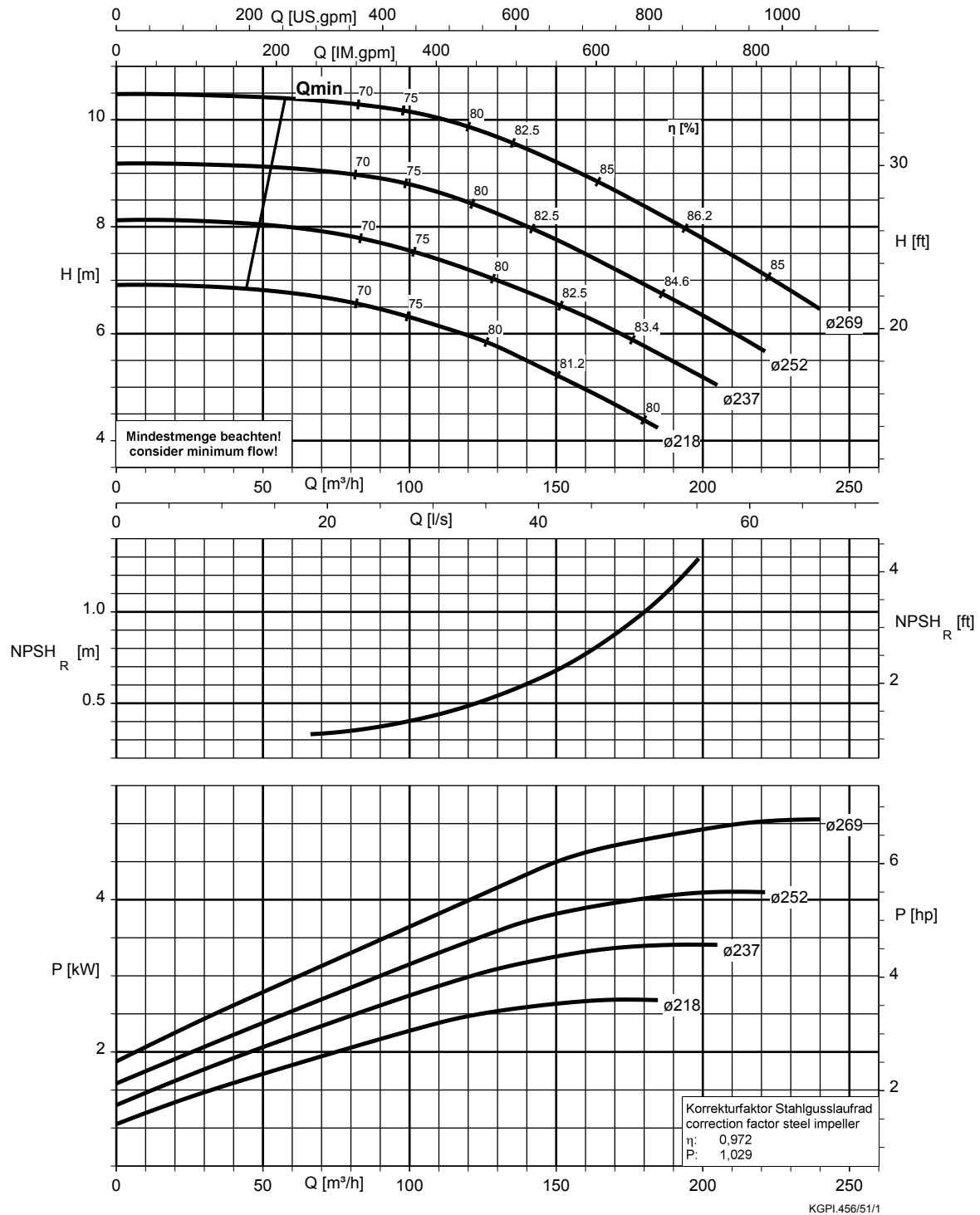
MegaCPK Inducer 125-100-400, $n = 960 \text{ min}^{-1}$



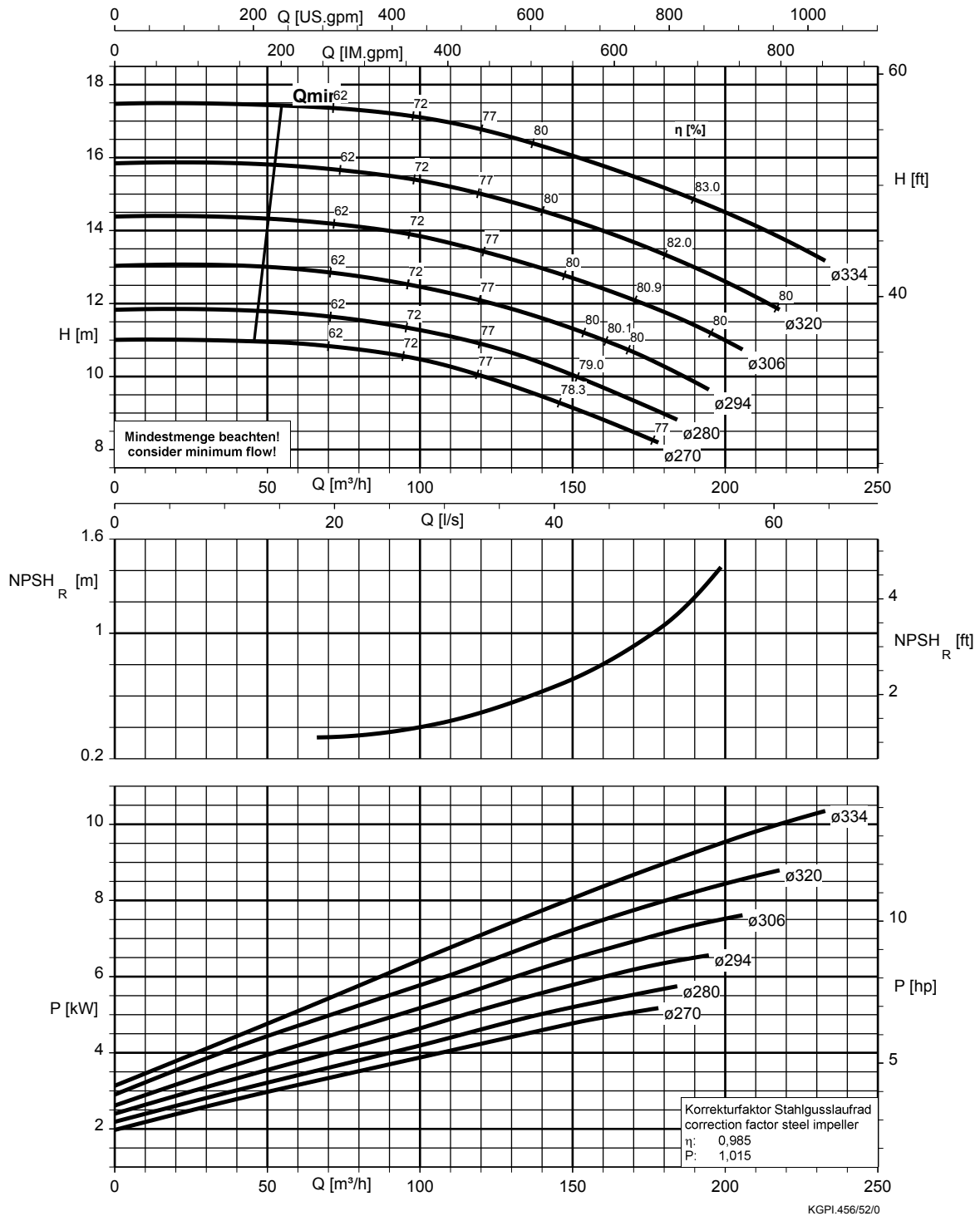
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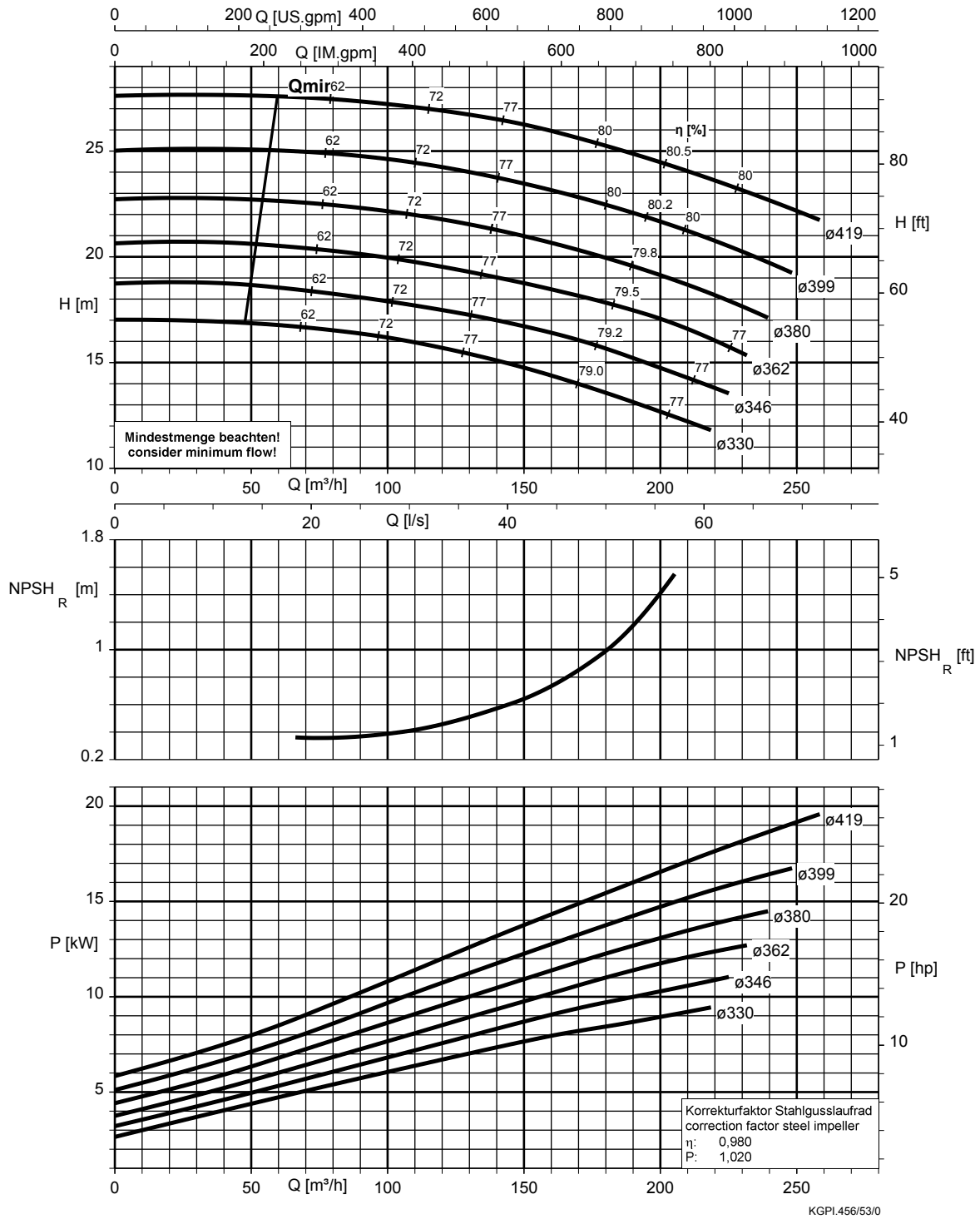
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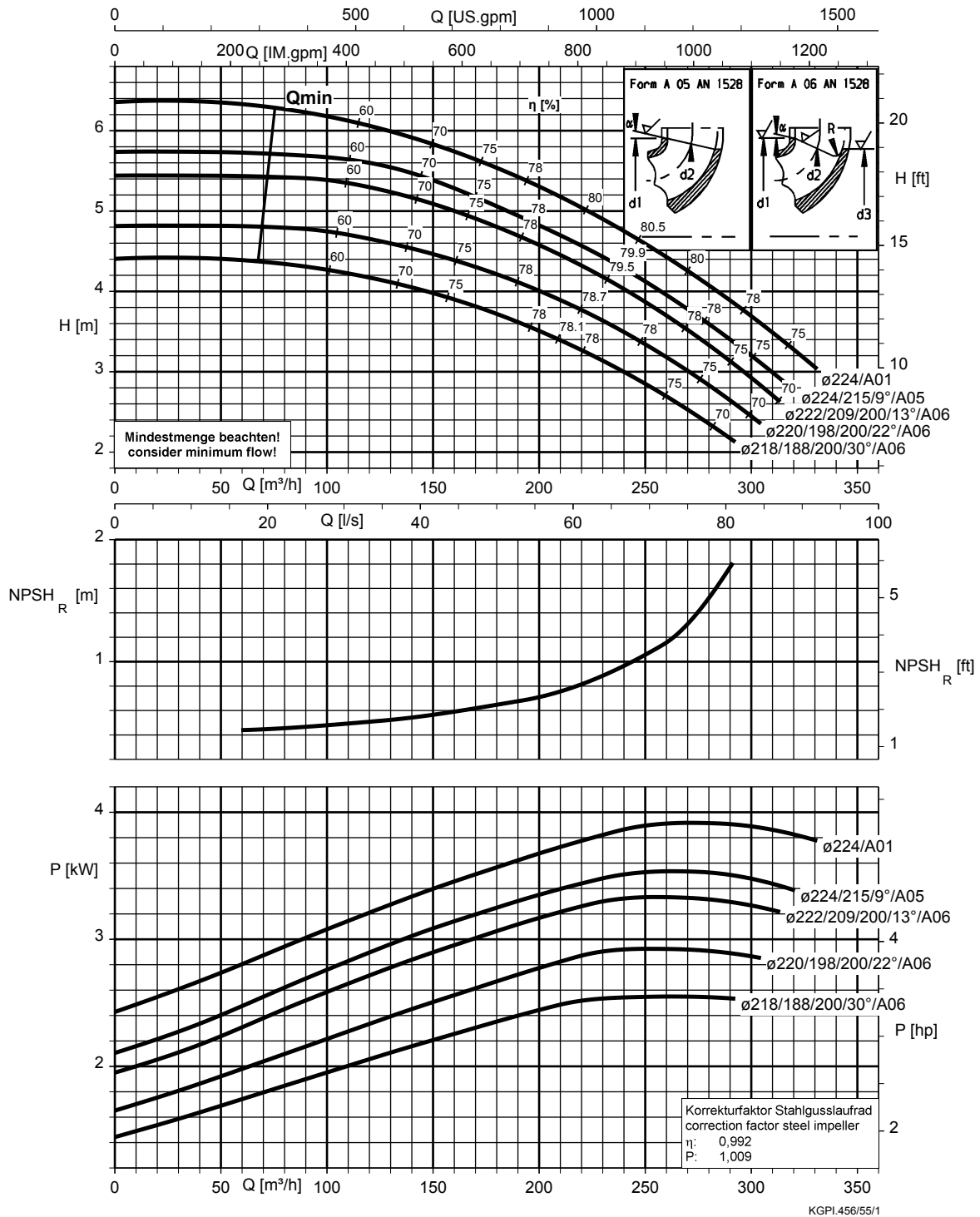
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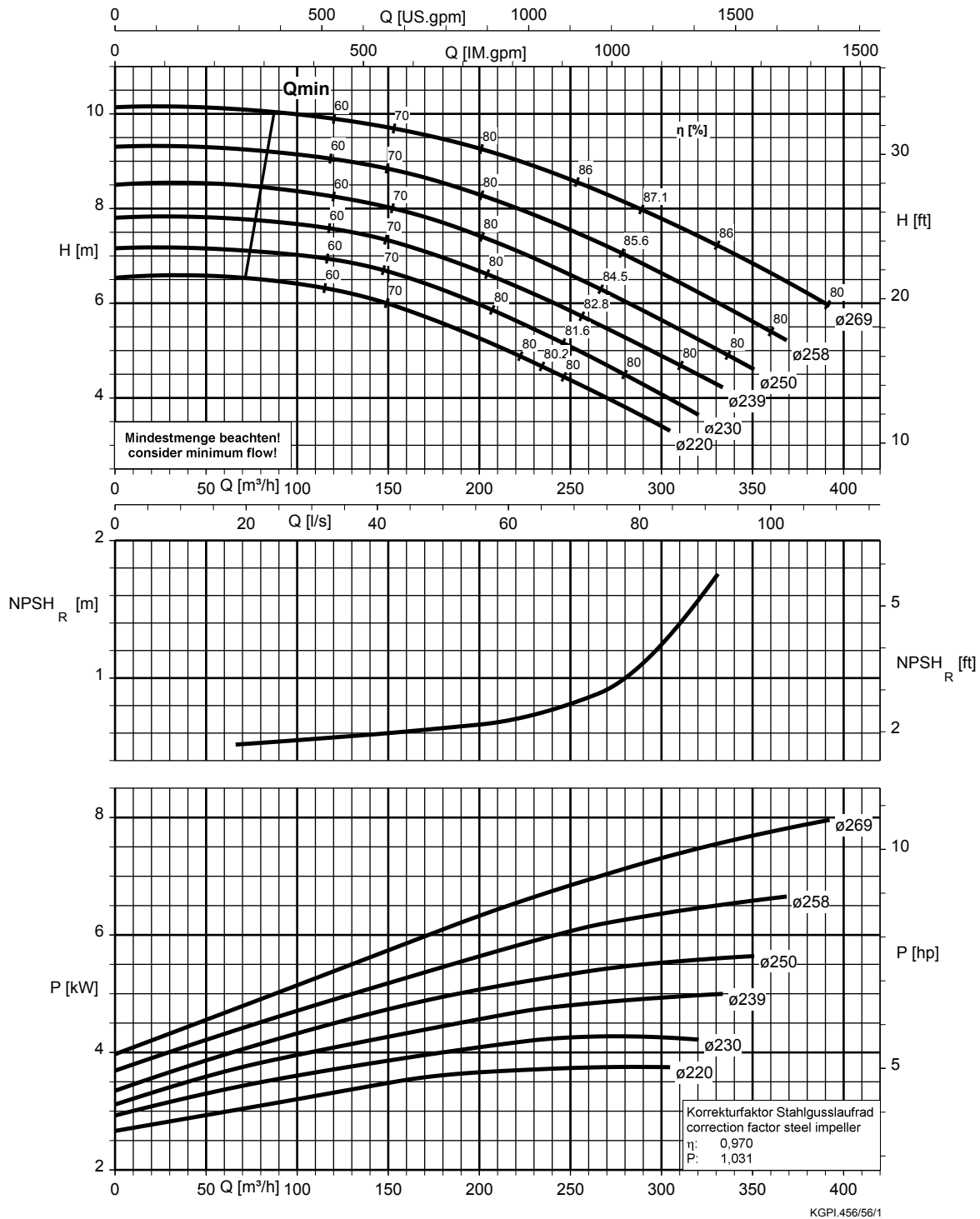
MegaCPK Inducer 150-125-400, $n = 960 \text{ min}^{-1}$



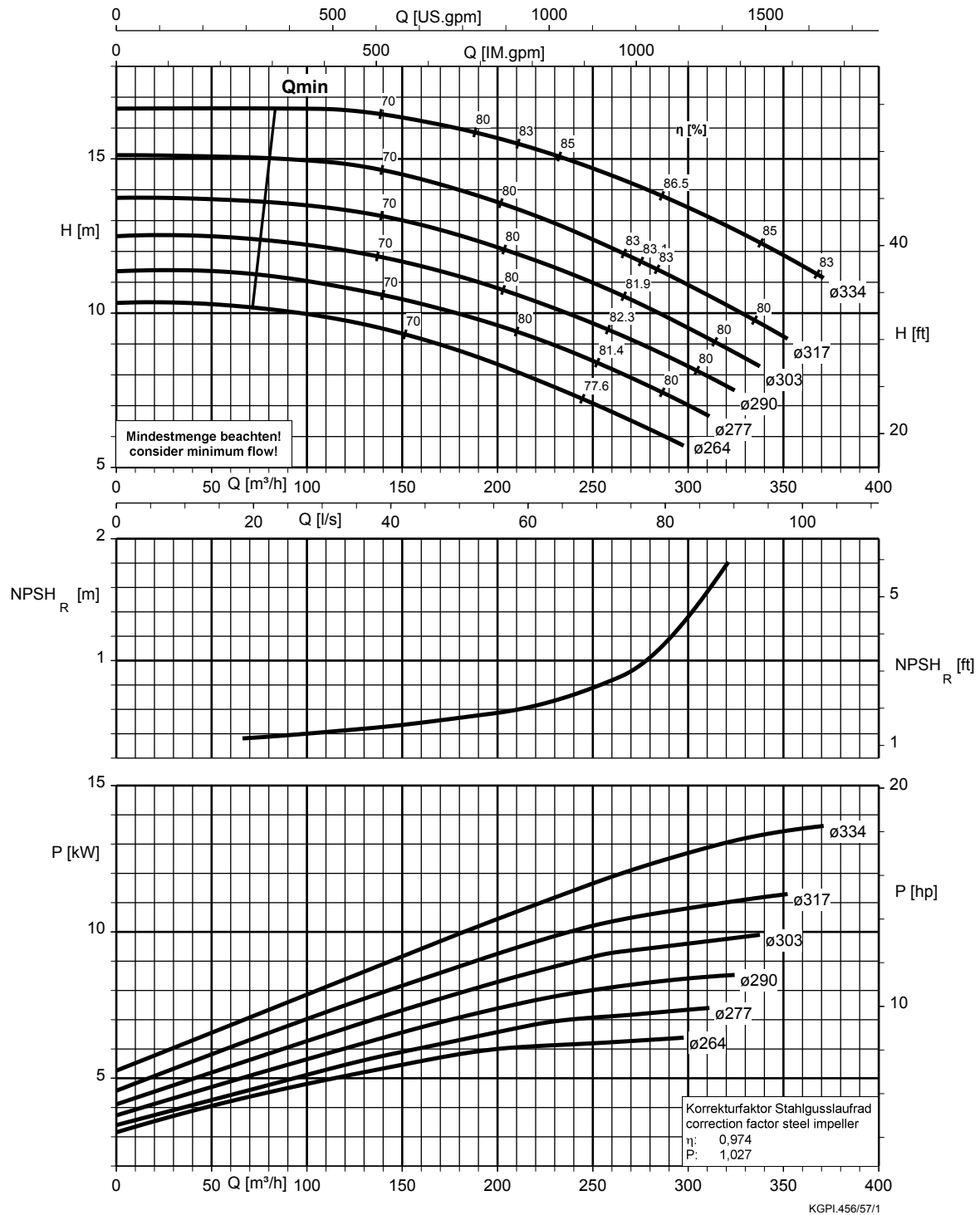
MegaCPK Inducer 200-150-200, $n = 960 \text{ min}^{-1}$



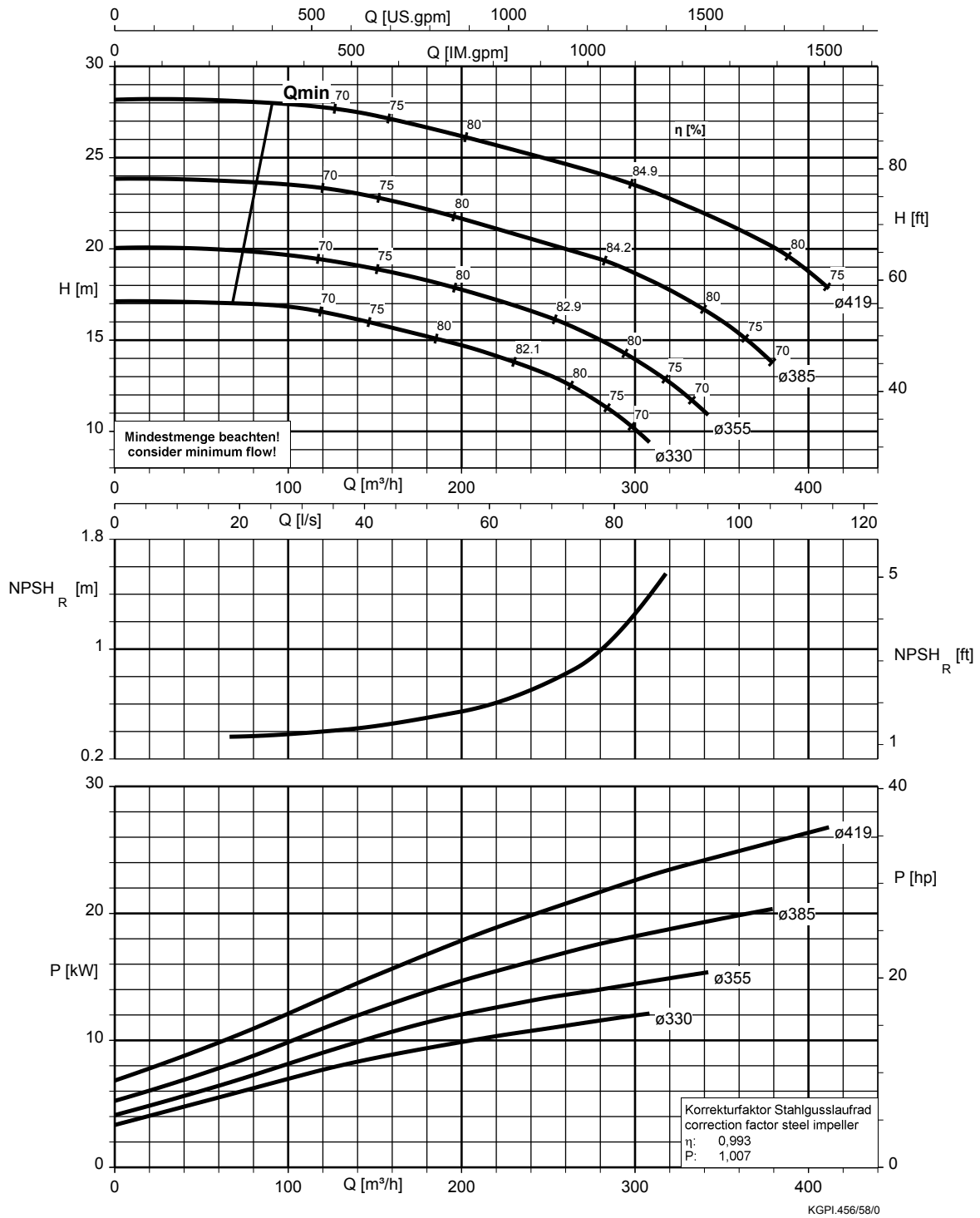
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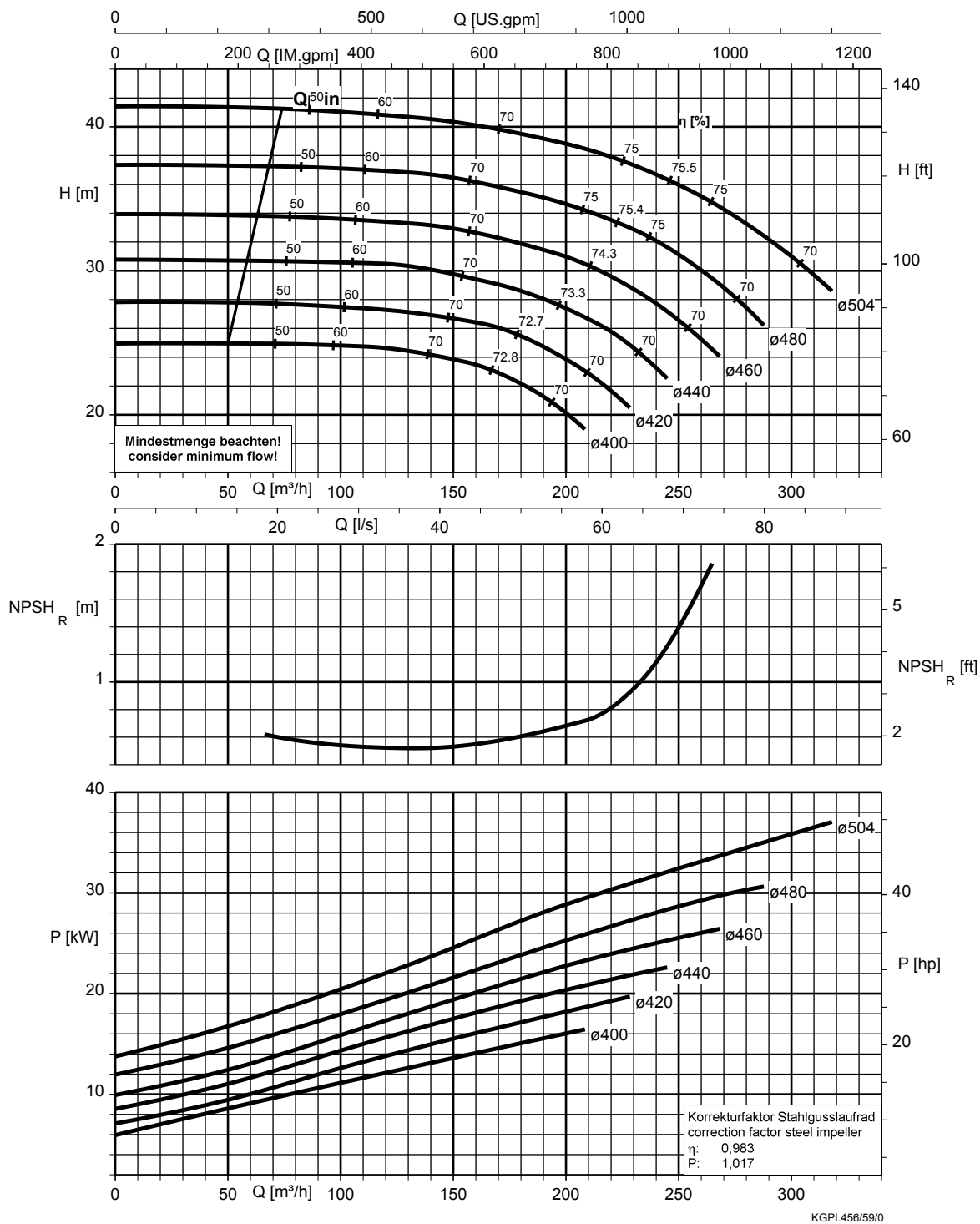
MegaCPK Inducer 200-150-315, $n = 960 \text{ min}^{-1}$



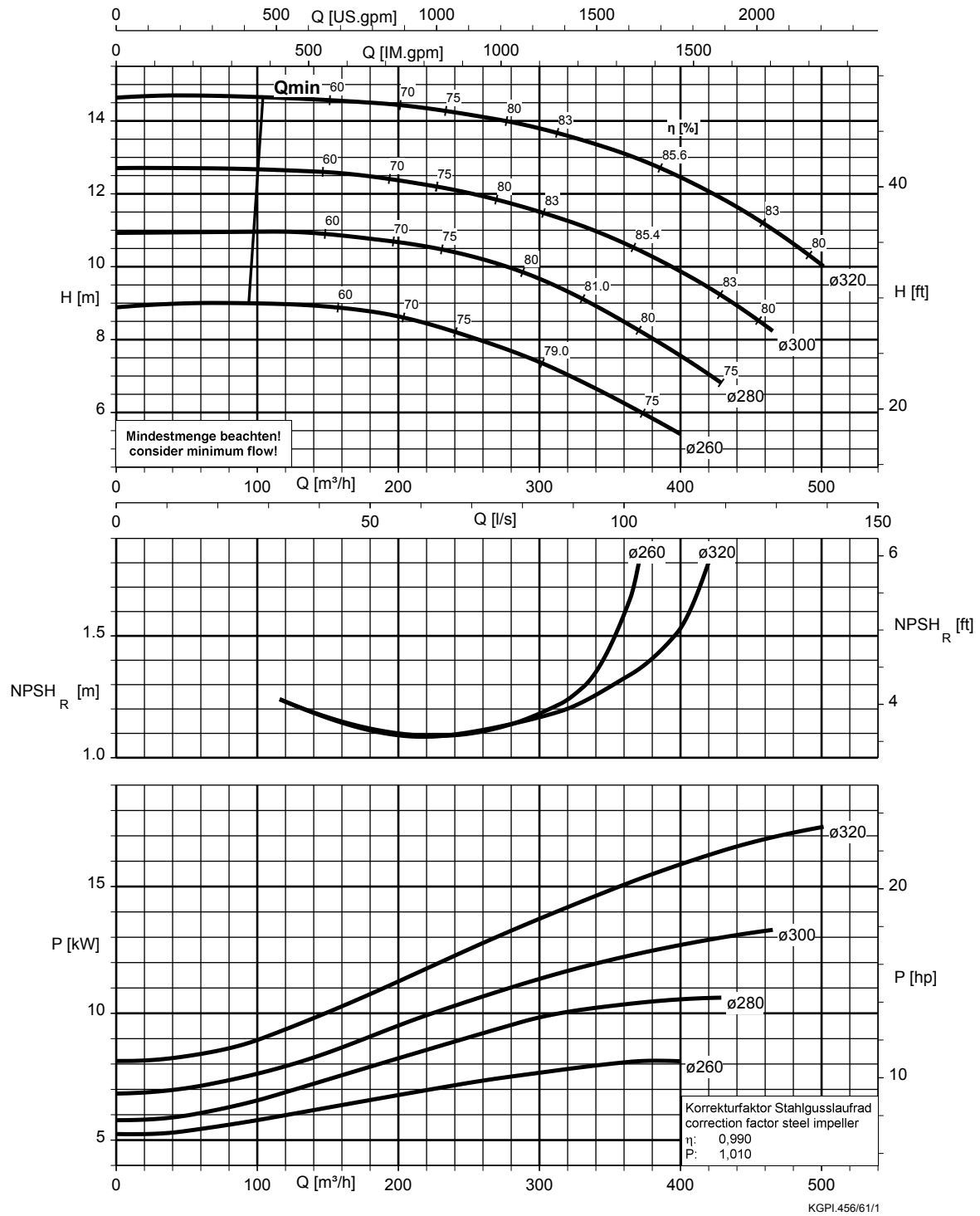
MegaCPK Inducer 200-150-400, $n = 960 \text{ min}^{-1}$



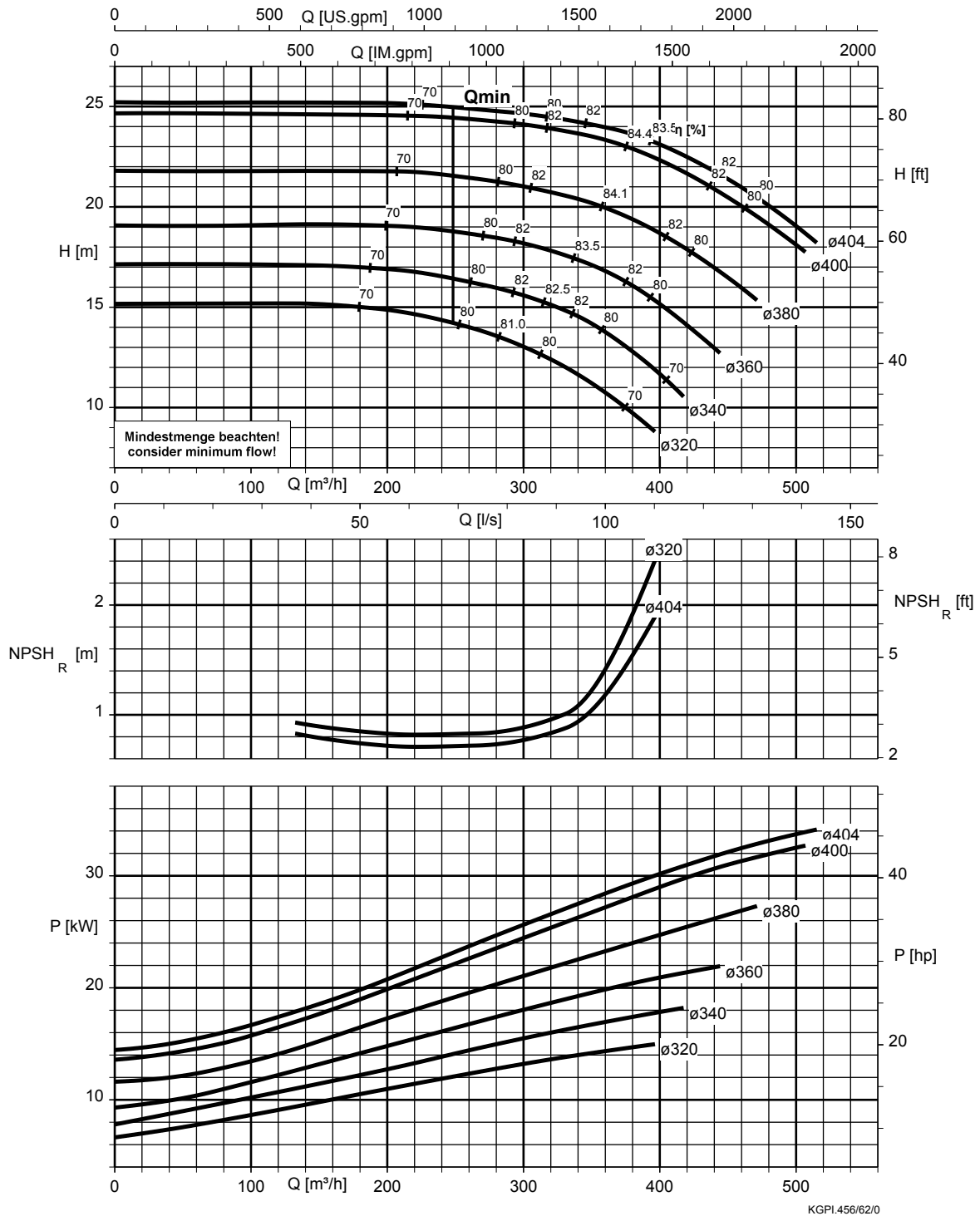
MegaCPK Inducer 200-150-500, $n = 960 \text{ min}^{-1}$



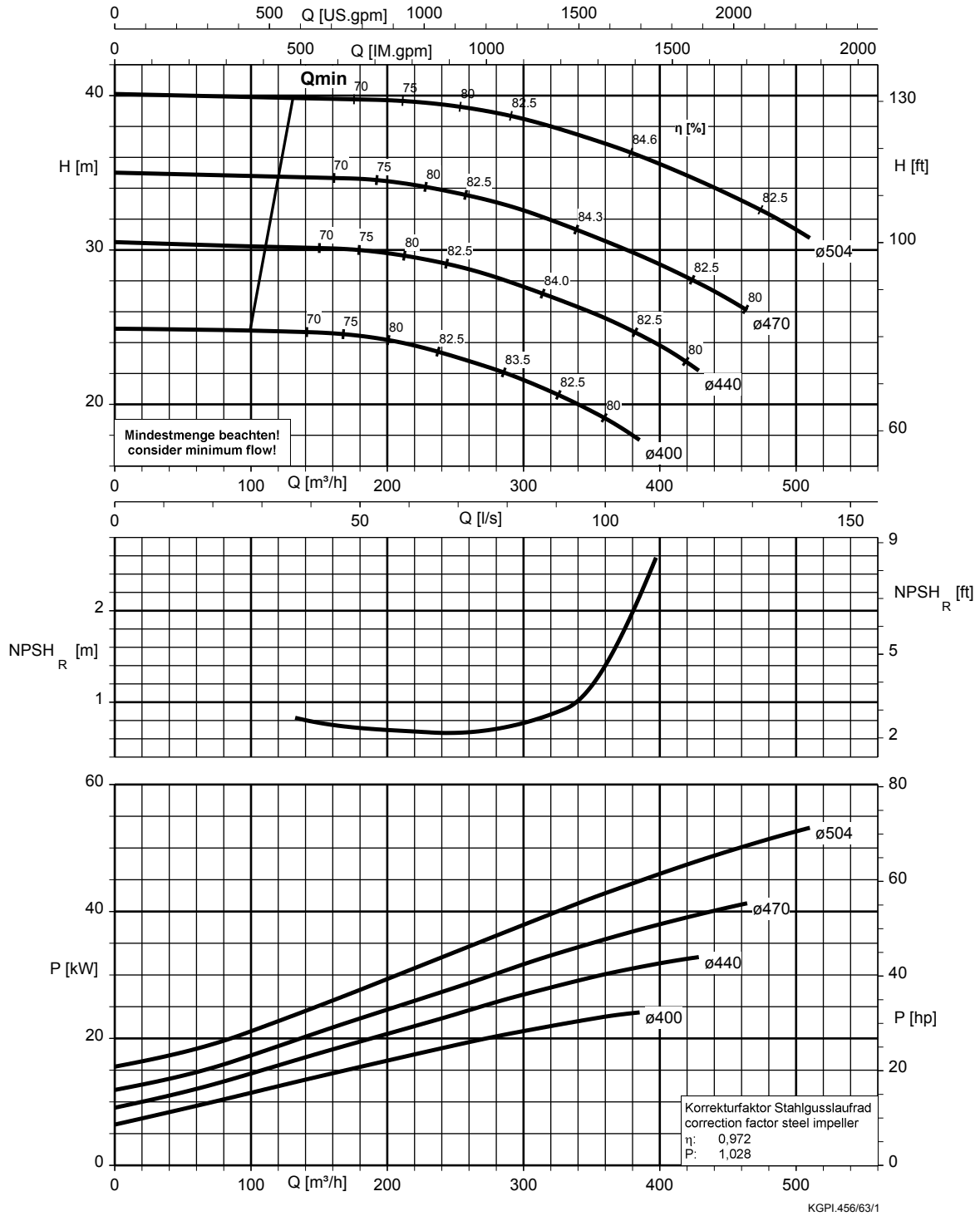
MegaCPK Inducer 250-200-315, $n = 960 \text{ min}^{-1}$



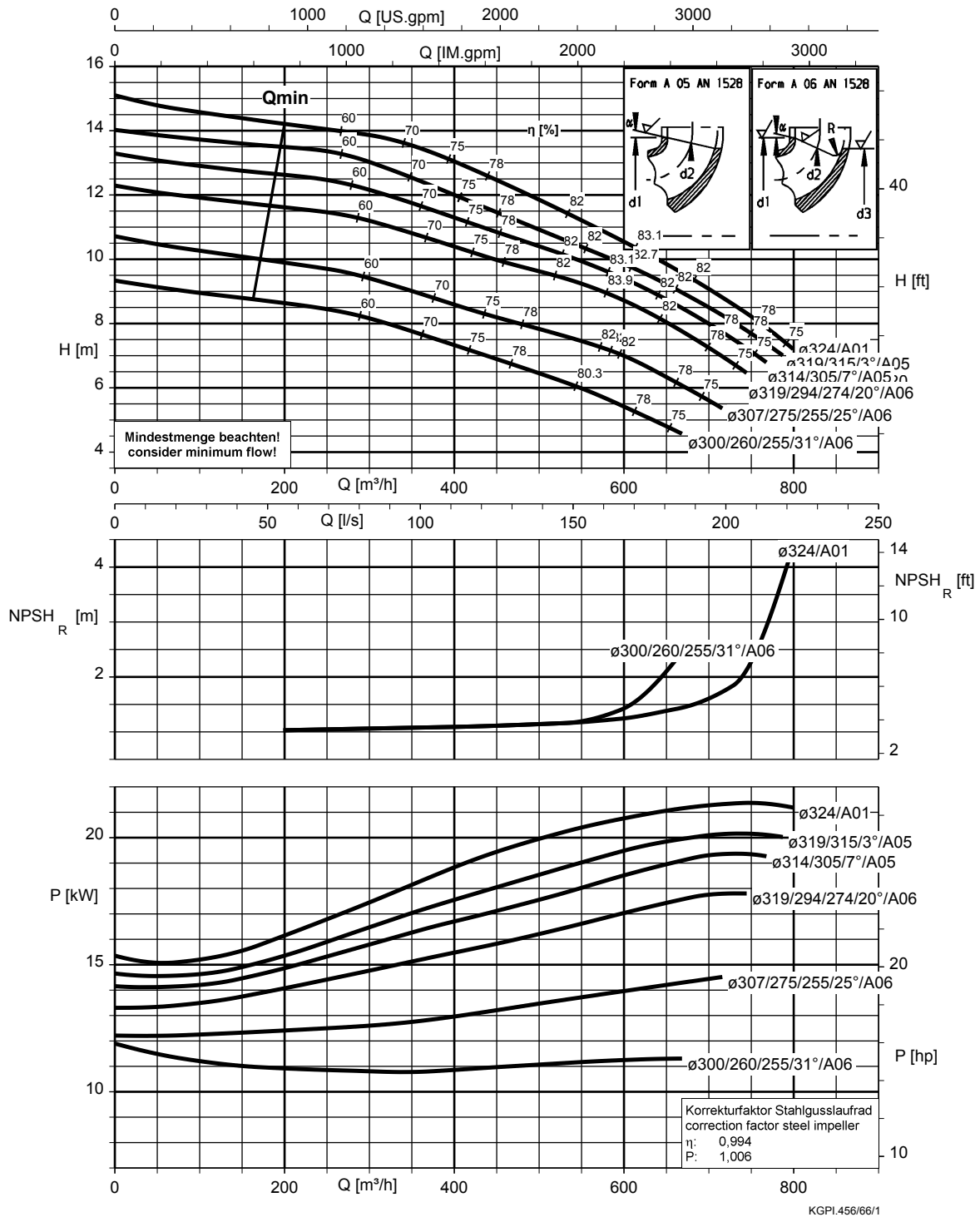
MegaCPK Inducer 250-200-400, $n = 960 \text{ min}^{-1}$



MegaCPK Inducer 250-200-500, $n = 960 \text{ min}^{-1}$

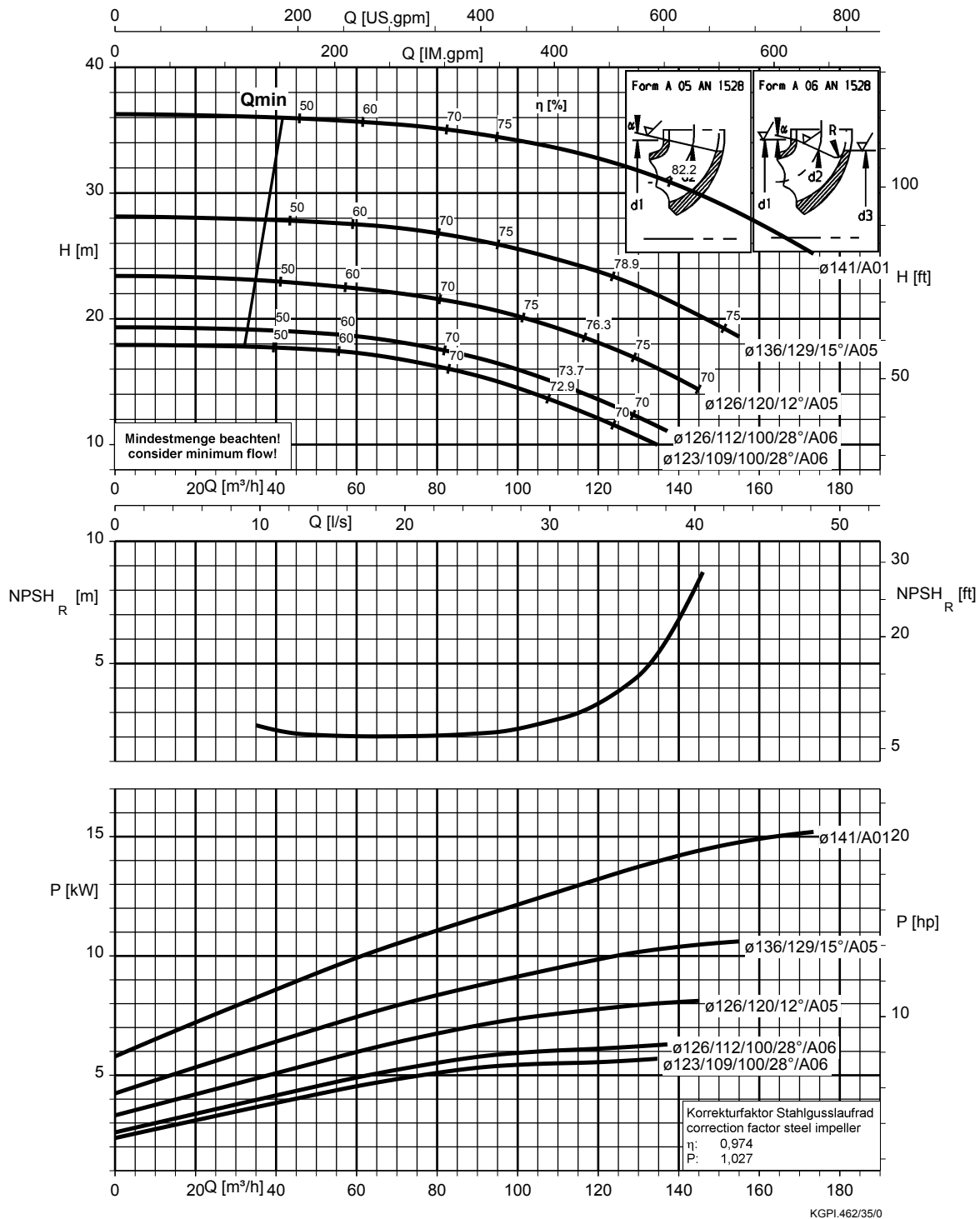


MegaCPK Inducer 300-250-315, $n = 960 \text{ min}^{-1}$

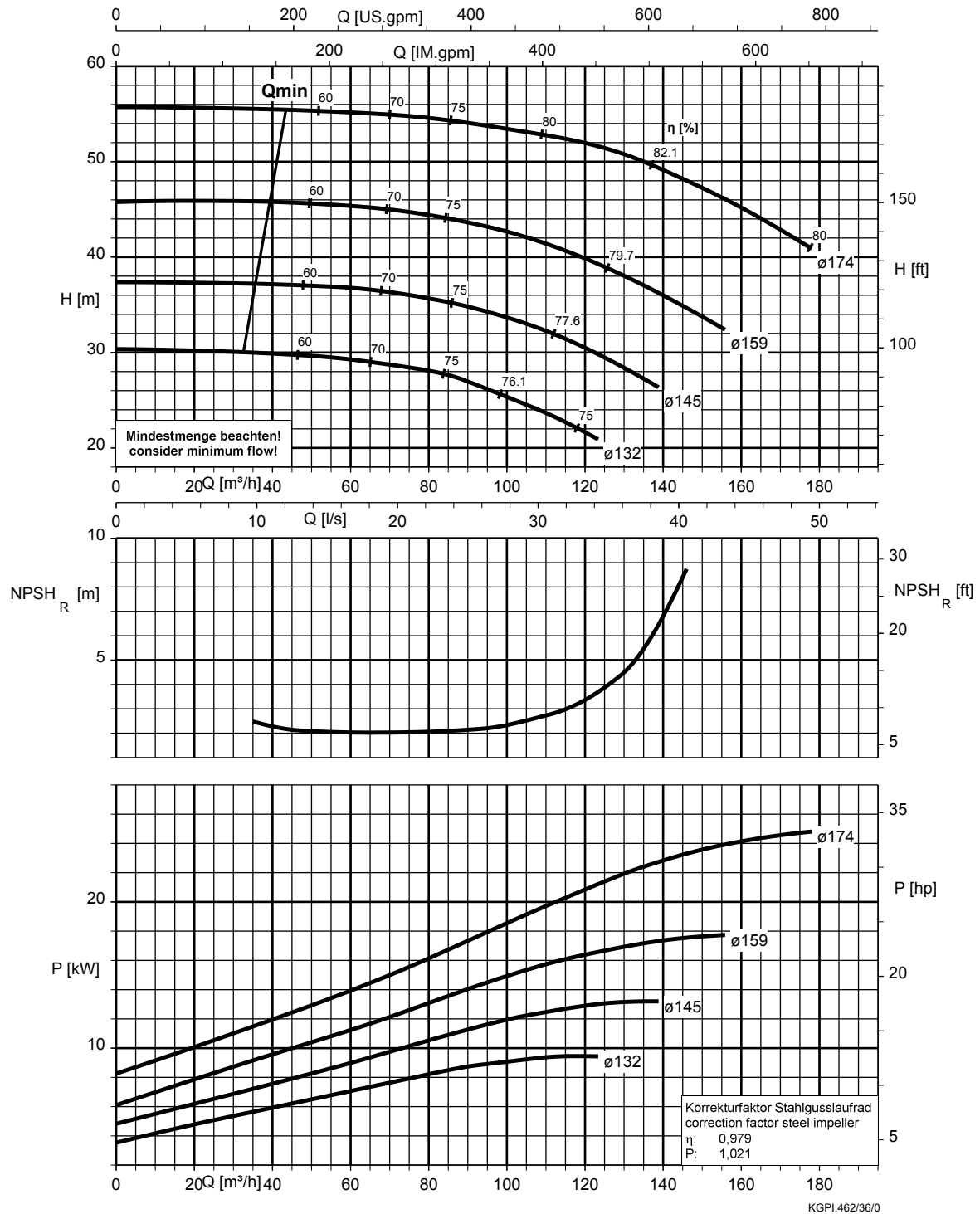


$n = 3500 \text{ min}^{-1}$

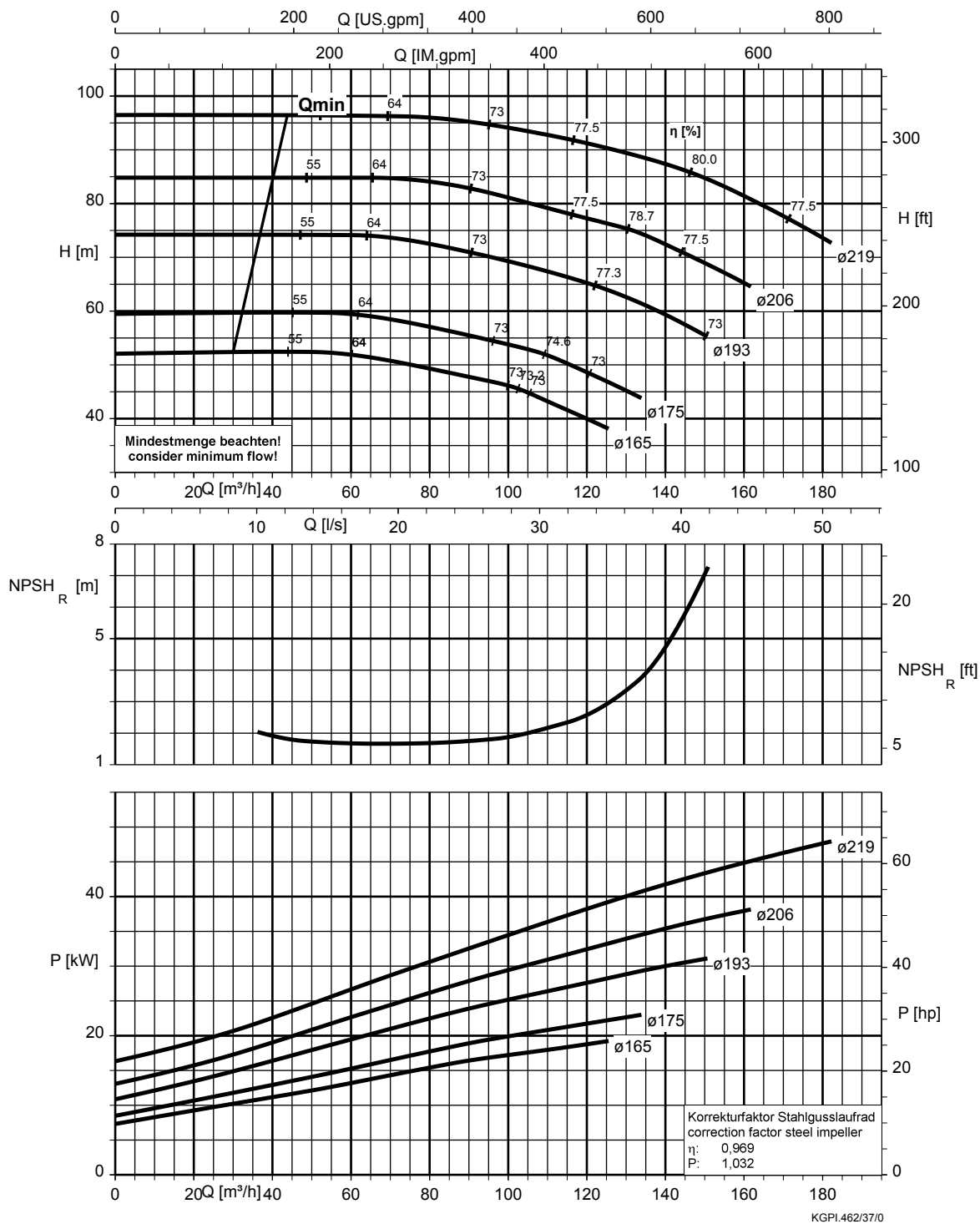
MegaCPK Inducer 100-065-125, $n = 3500 \text{ min}^{-1}$



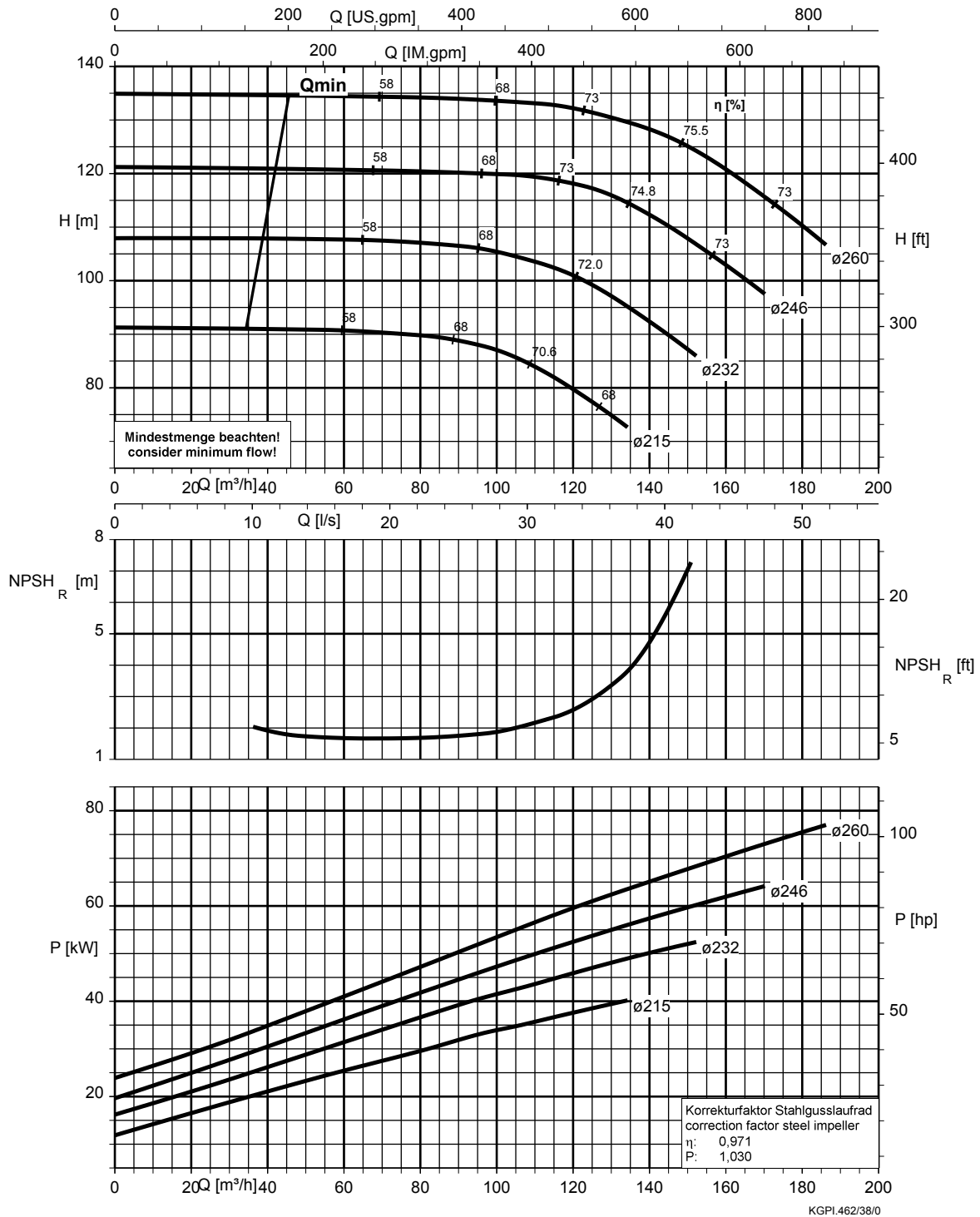
MegaCPK Inducer 100-065-160, $n = 3500 \text{ min}^{-1}$



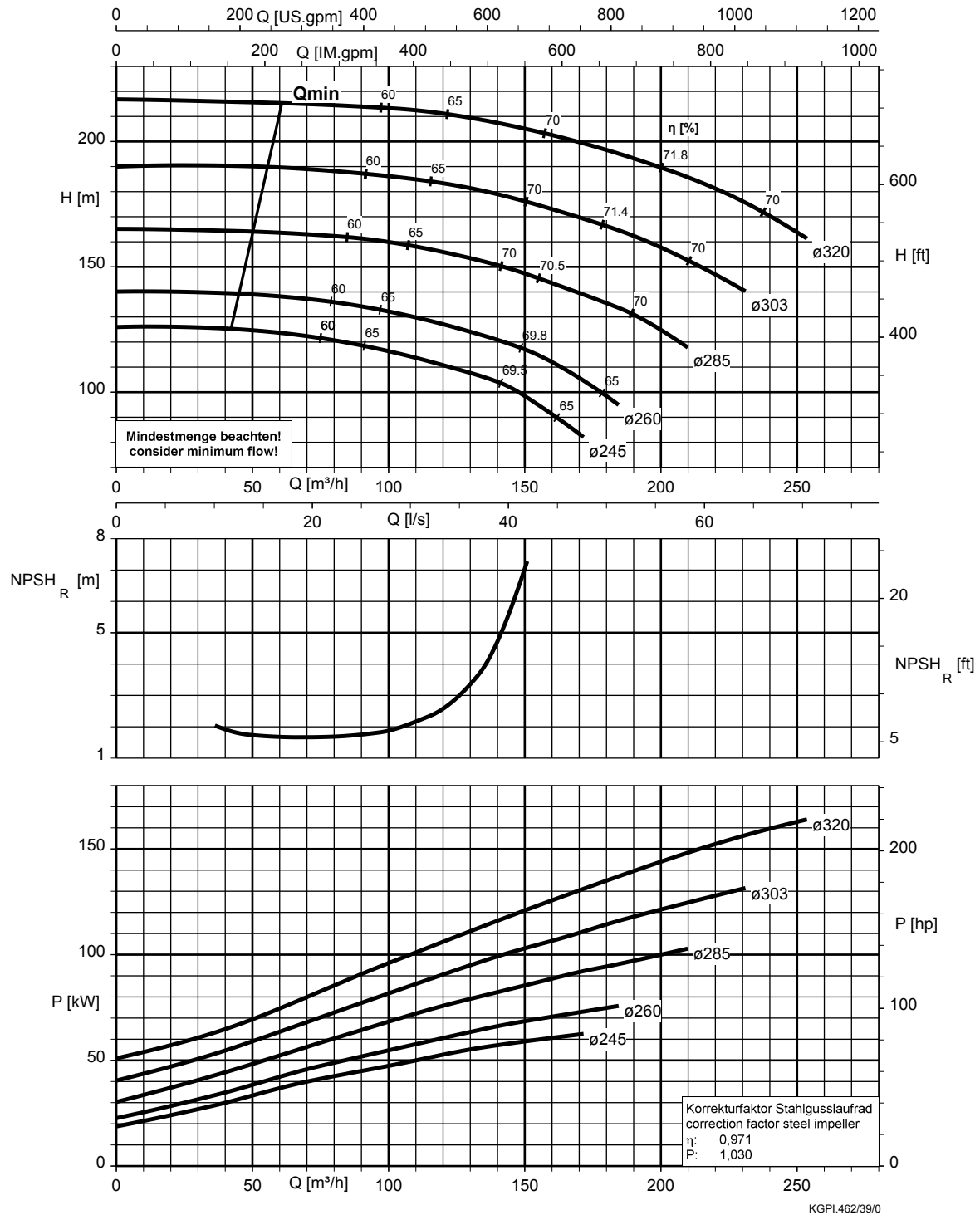
MegaCPK Inducer 100-065-200, $n = 3500 \text{ min}^{-1}$



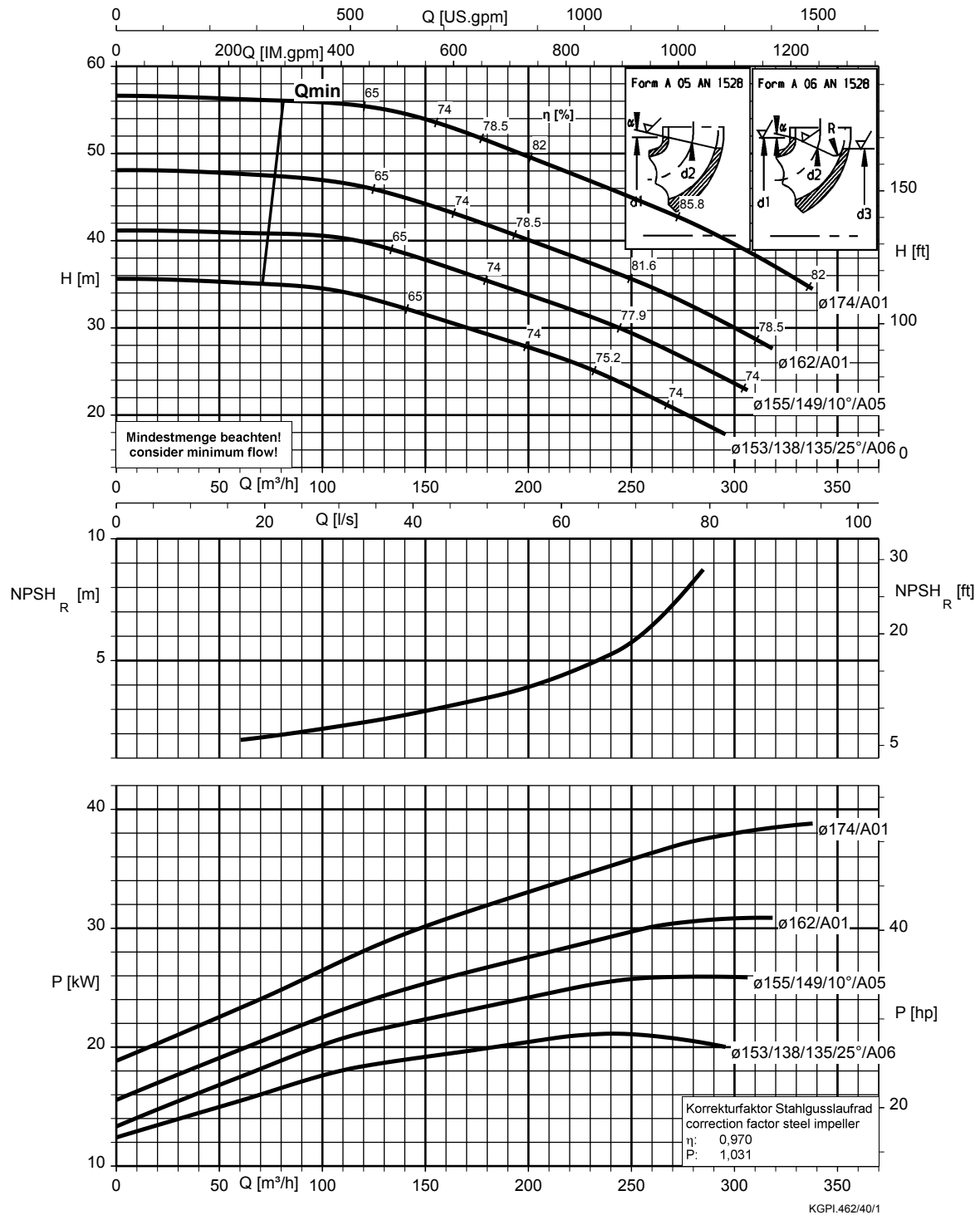
MegaCPK Inducer 100-065-250, $n = 3500 \text{ min}^{-1}$



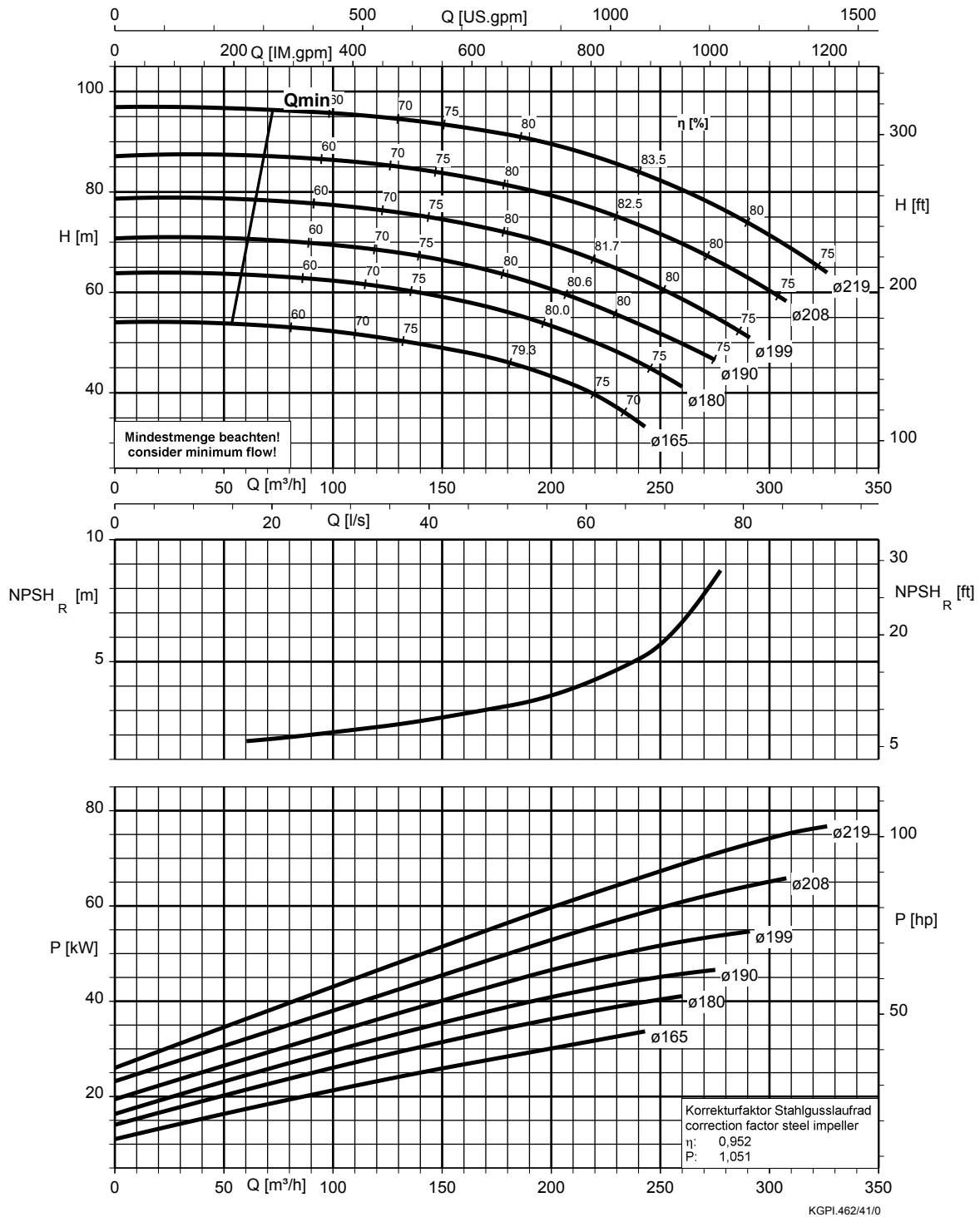
MegaCPK Inducer 100-065-315, $n = 3500 \text{ min}^{-1}$



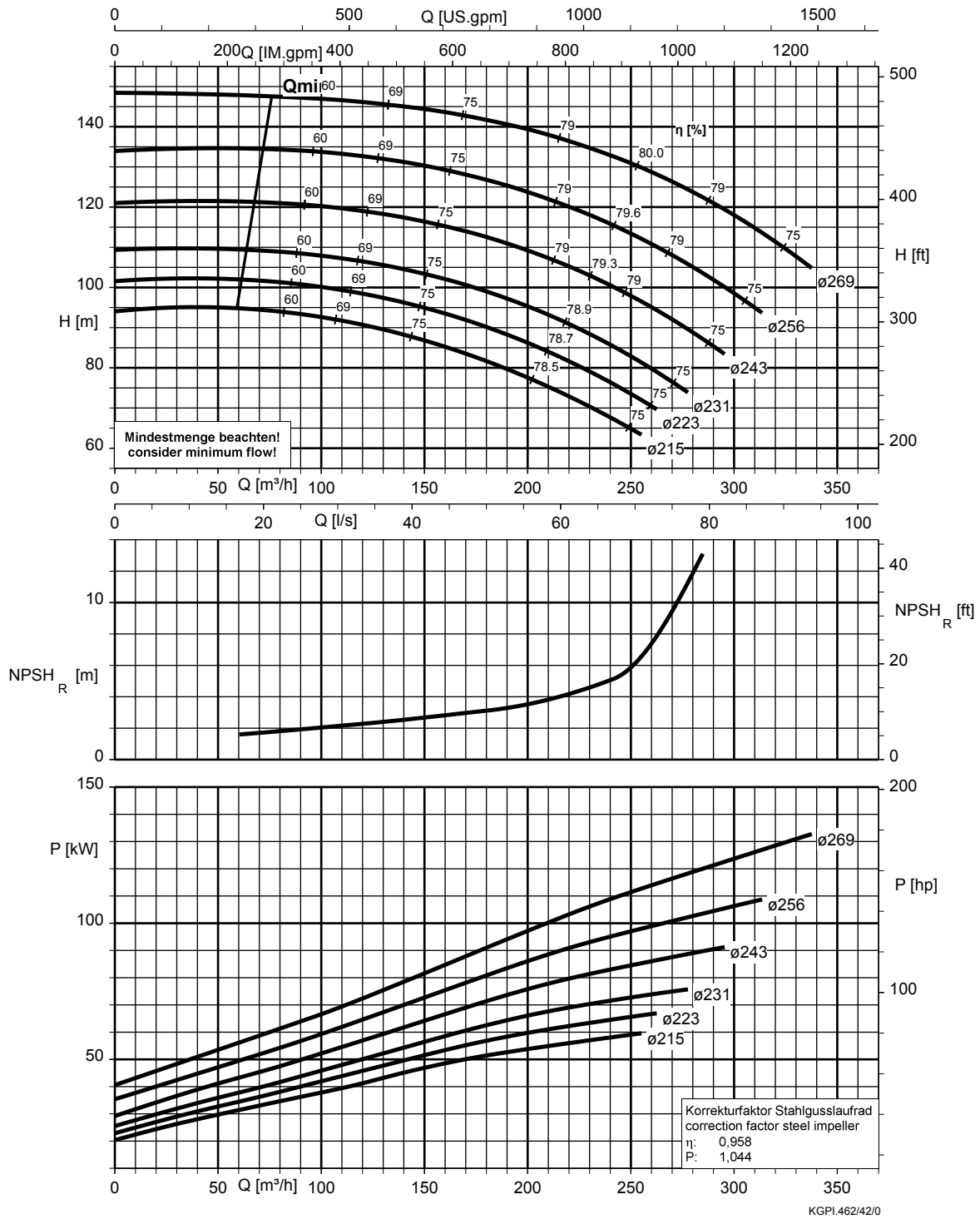
MegaCPK Inducer 125-080-160, $n = 3500 \text{ min}^{-1}$



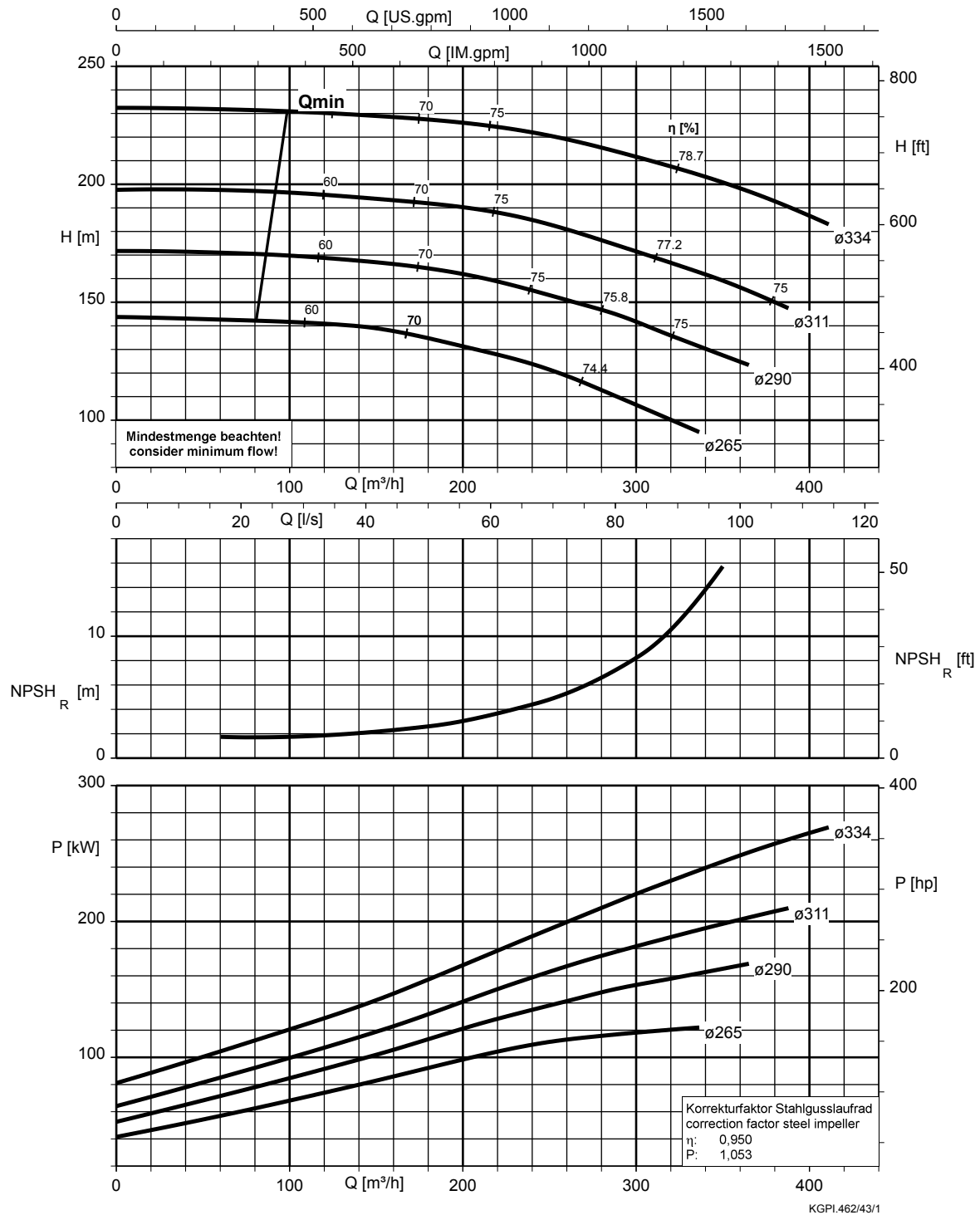
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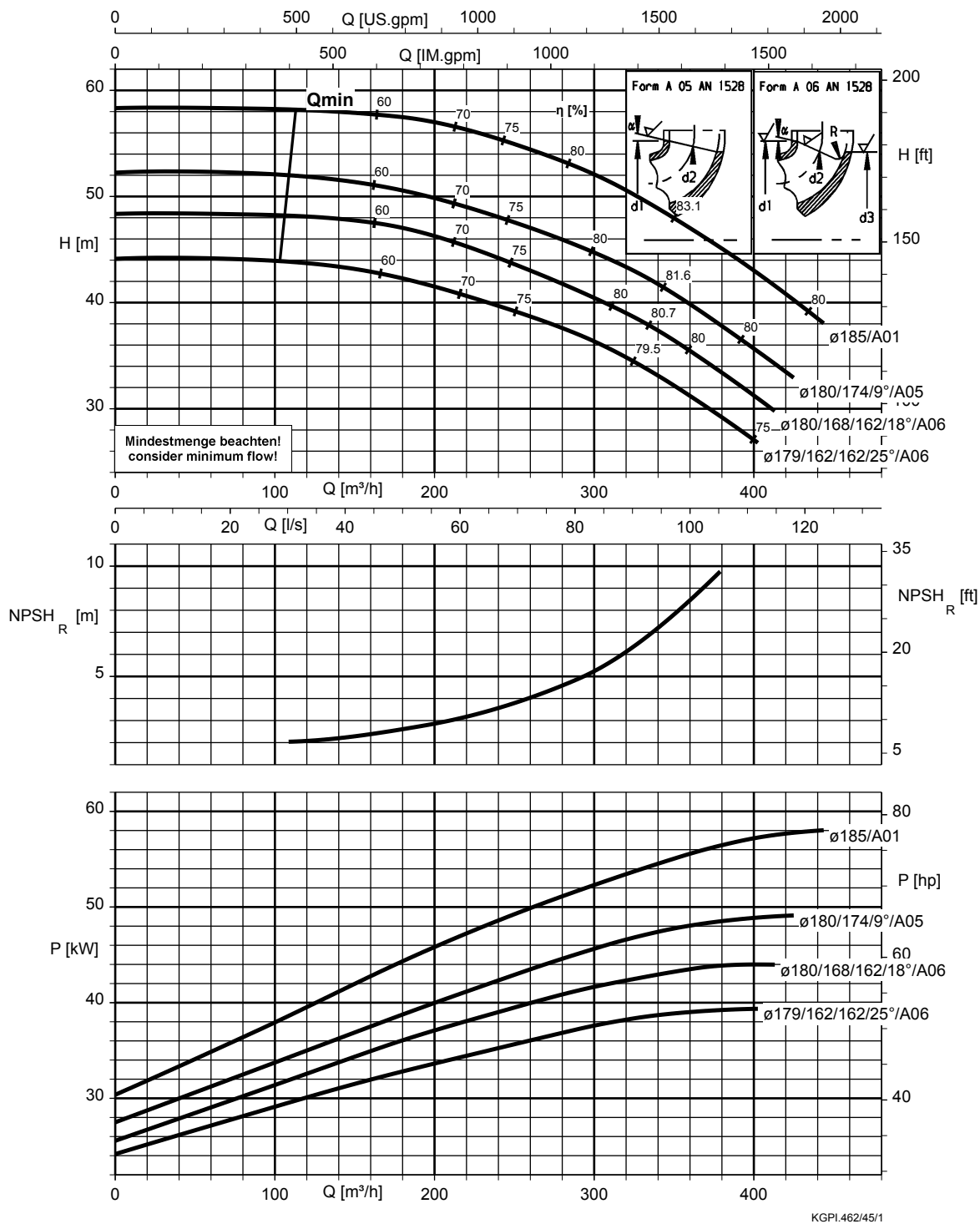
MegaCPK Inducer 125-080-250, $n = 3500 \text{ min}^{-1}$



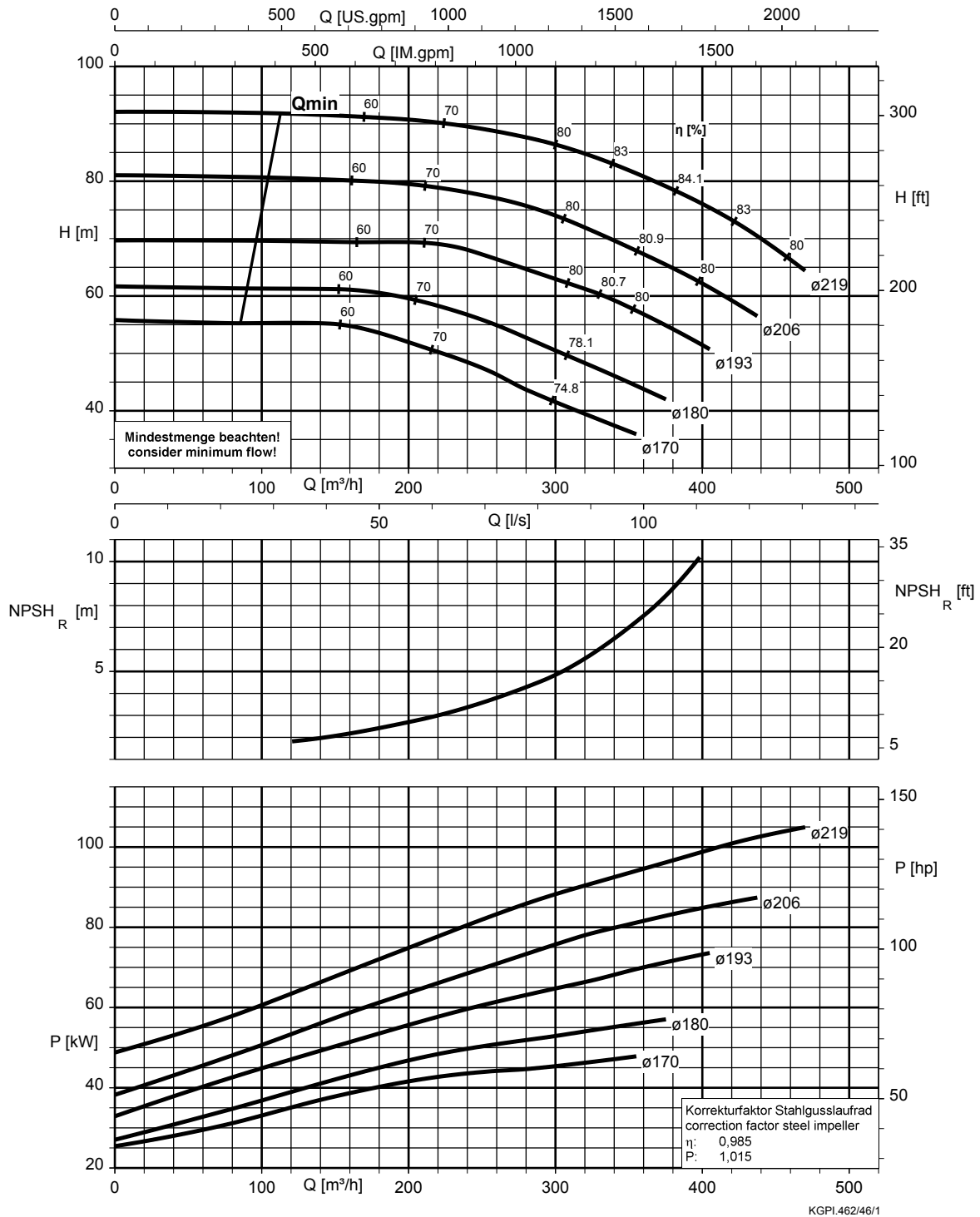
MegaCPK Inducer 125-080-315, $n = 3500 \text{ min}^{-1}$



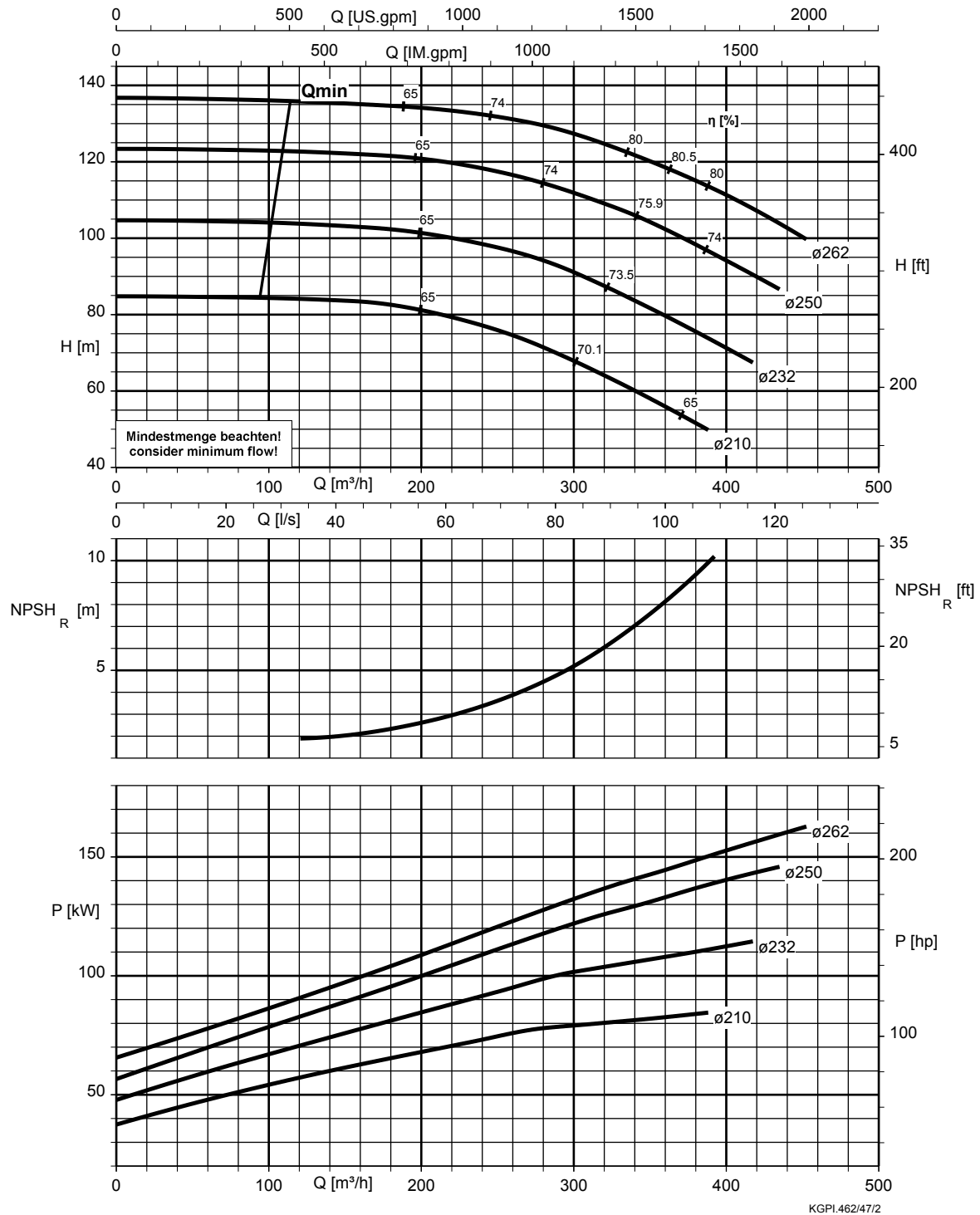
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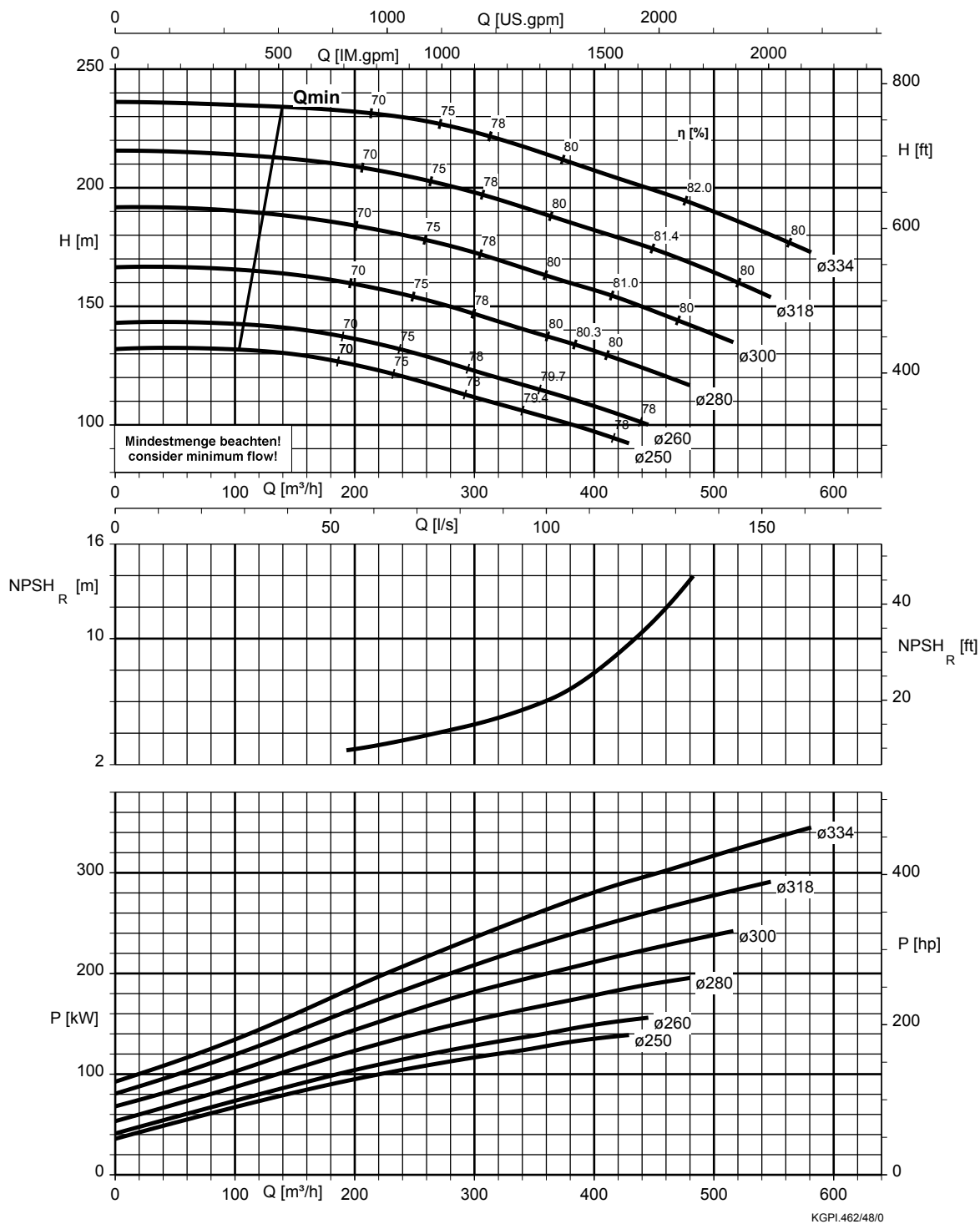
MegaCPK Inducer 125-100-200, $n = 3500 \text{ min}^{-1}$



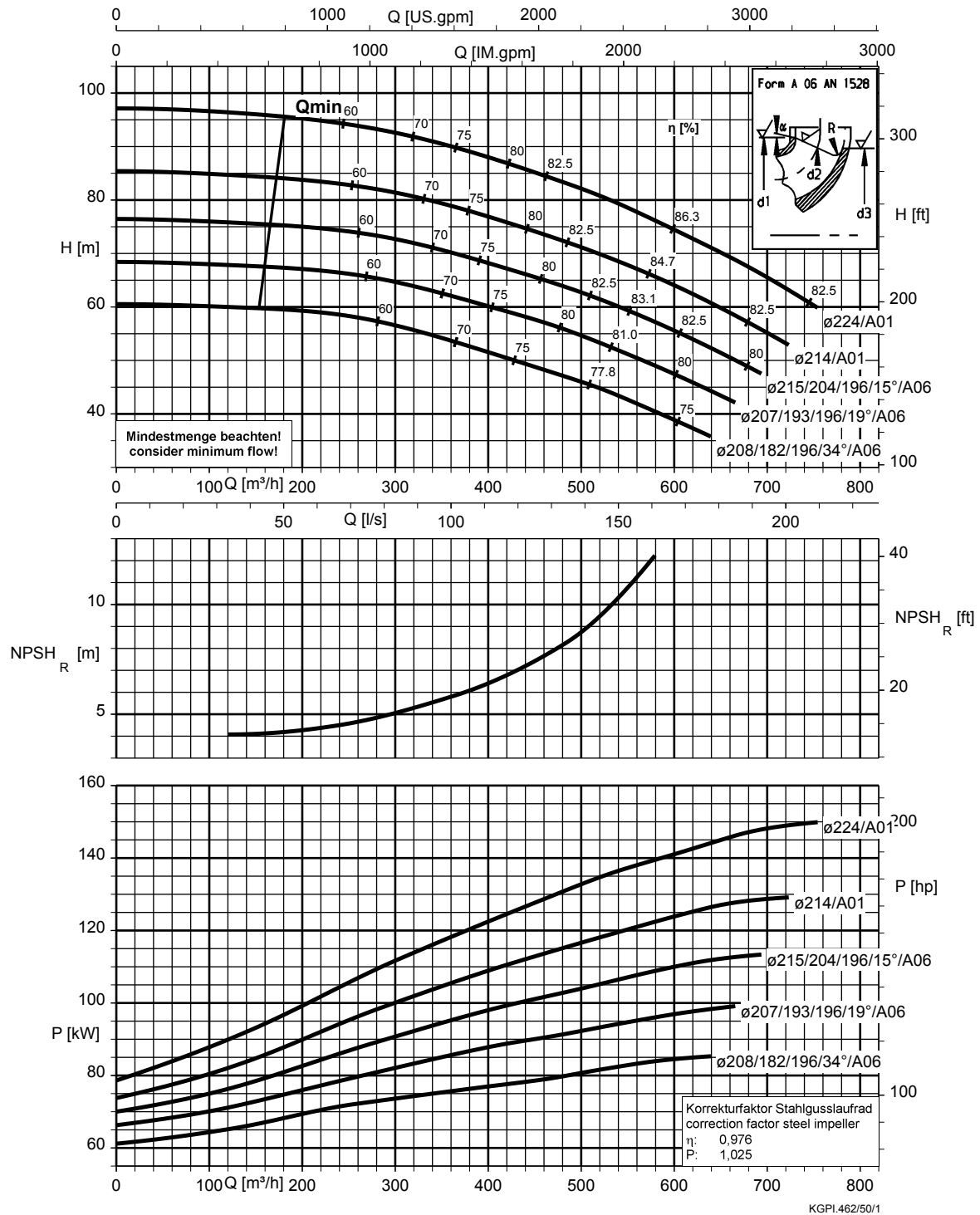
MegaCPK Inducer 125-100-250, $n = 3500 \text{ min}^{-1}$



MegaCPK Inducer 125-100-315, $n = 3500 \text{ min}^{-1}$

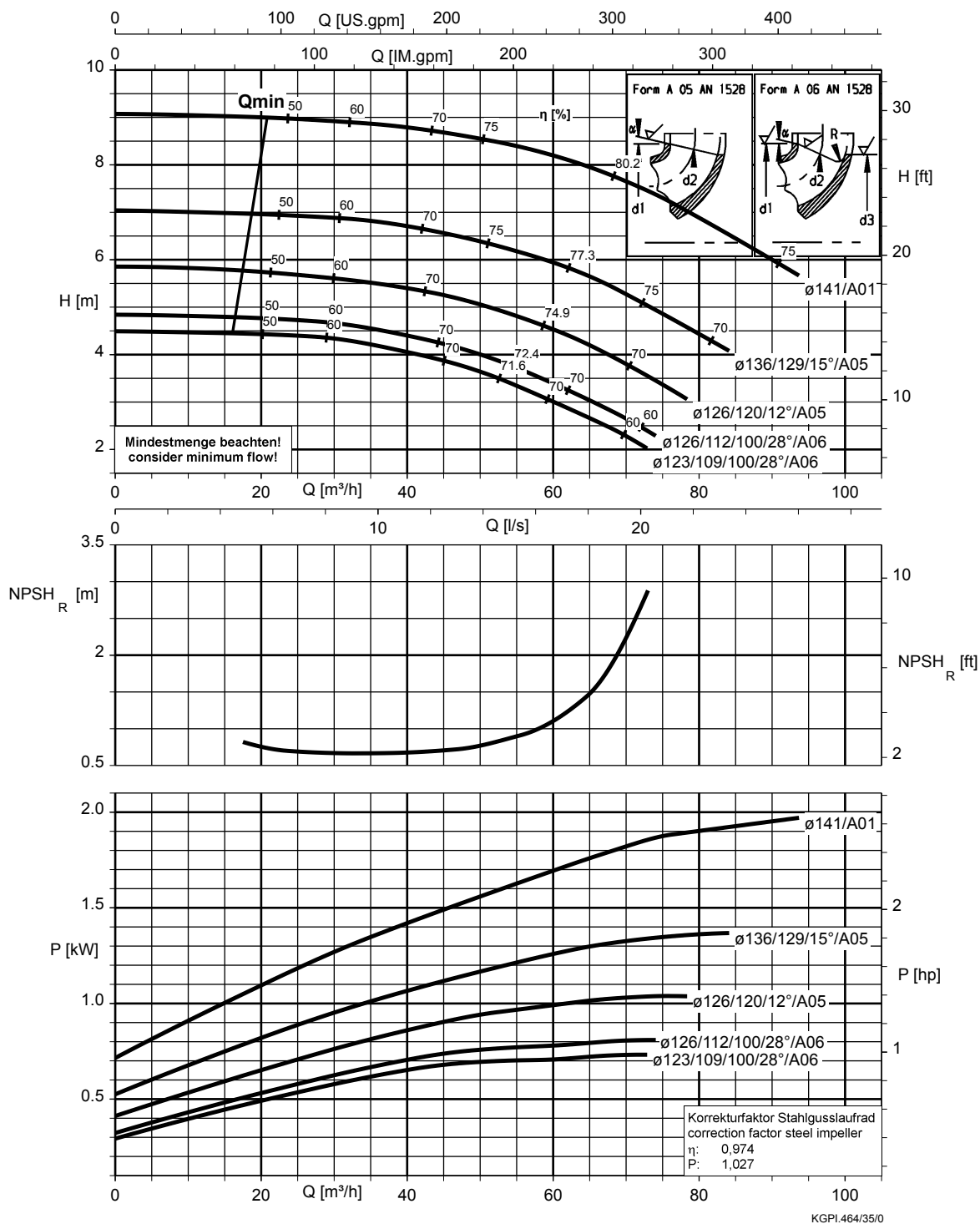


MegaCPK Inducer 150-125-200, $n = 3500 \text{ min}^{-1}$

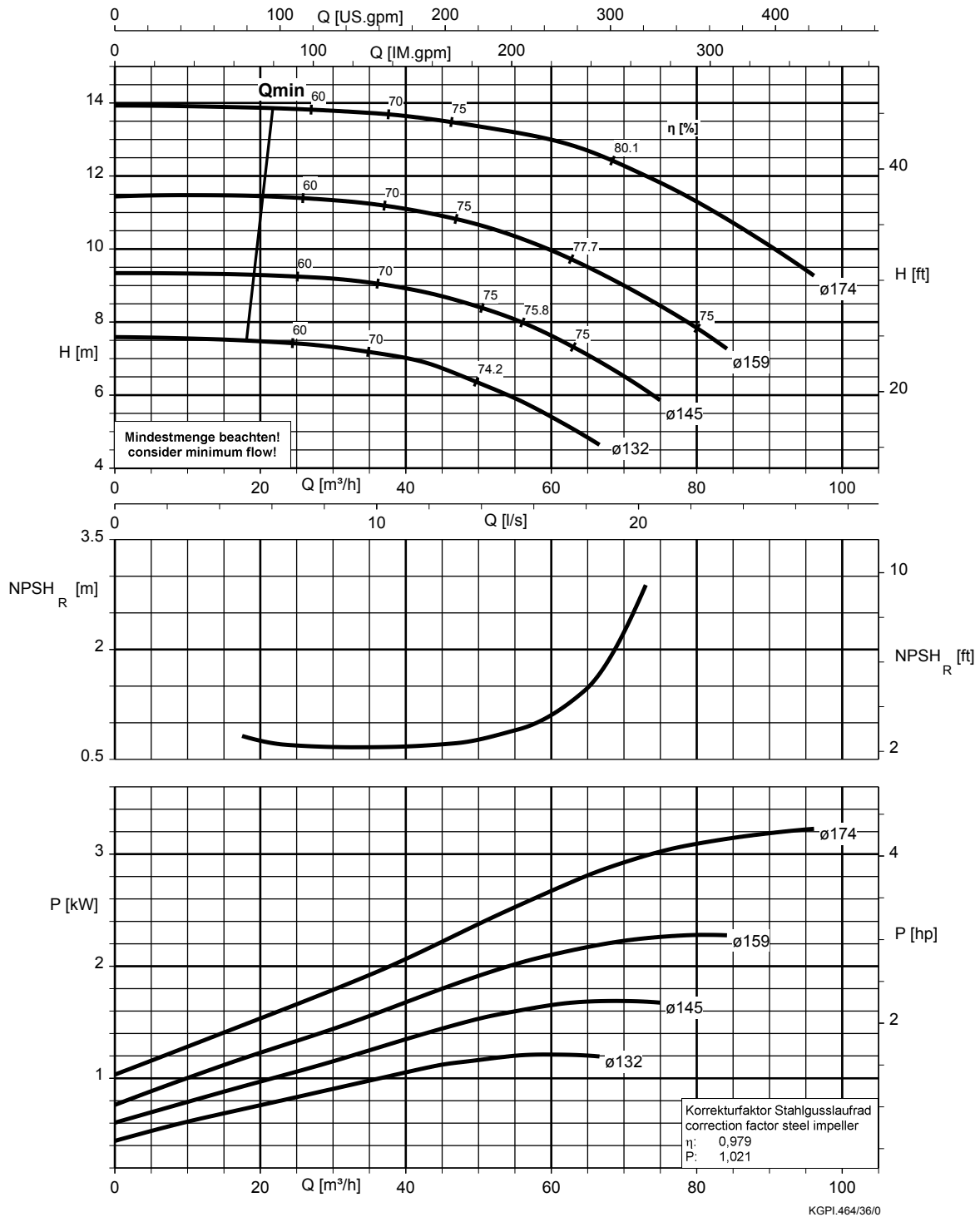


$n = 1750 \text{ min}^{-1}$

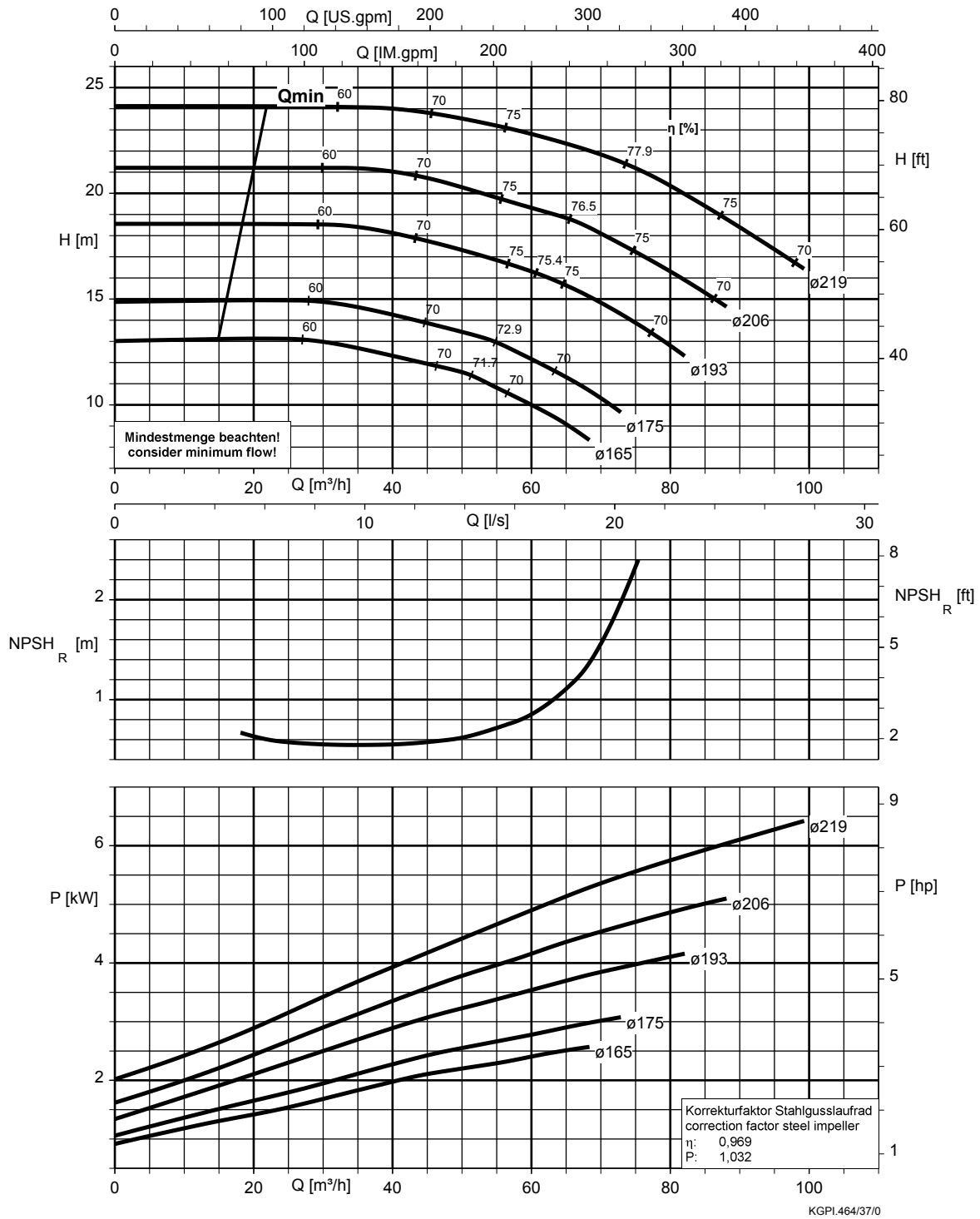
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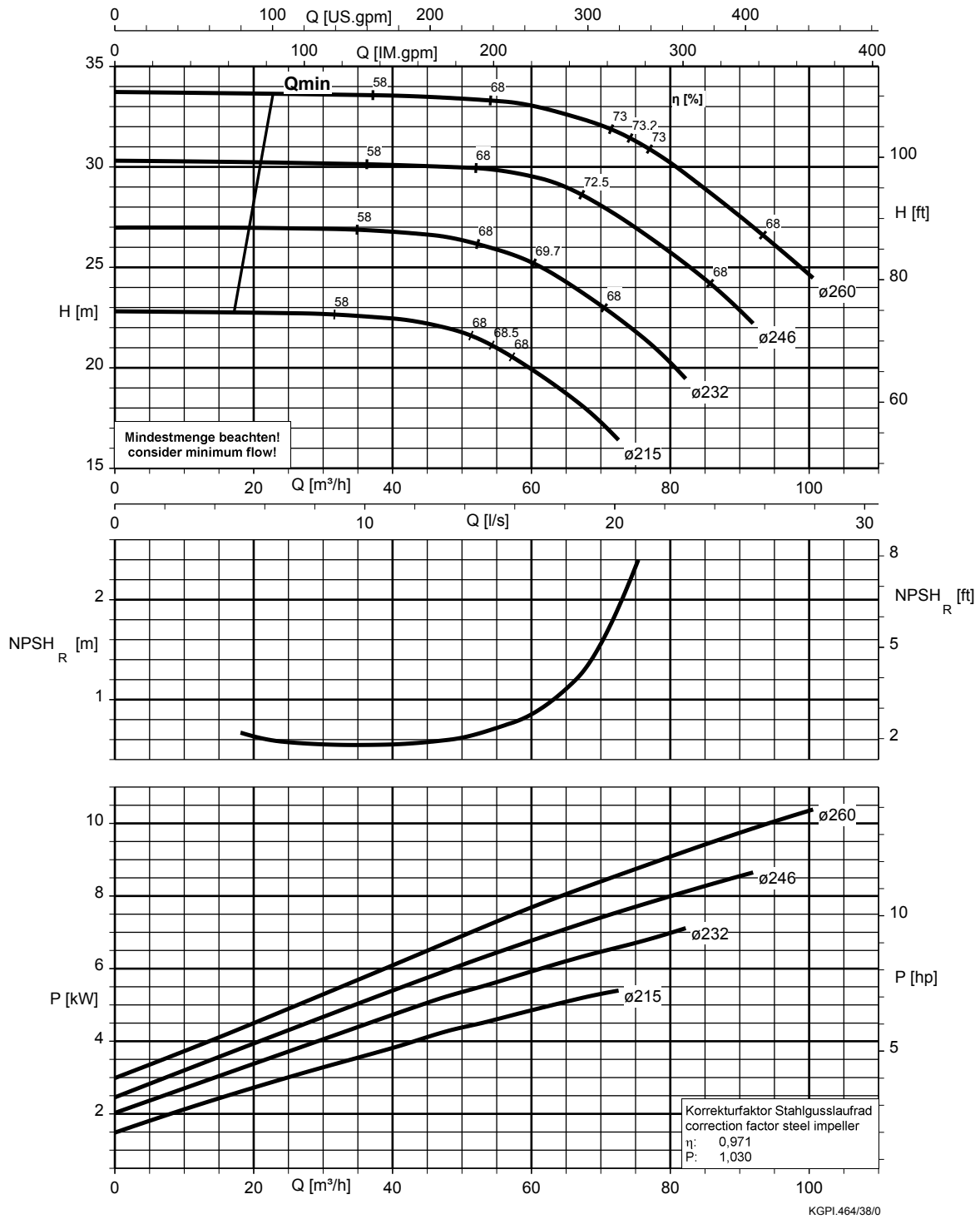
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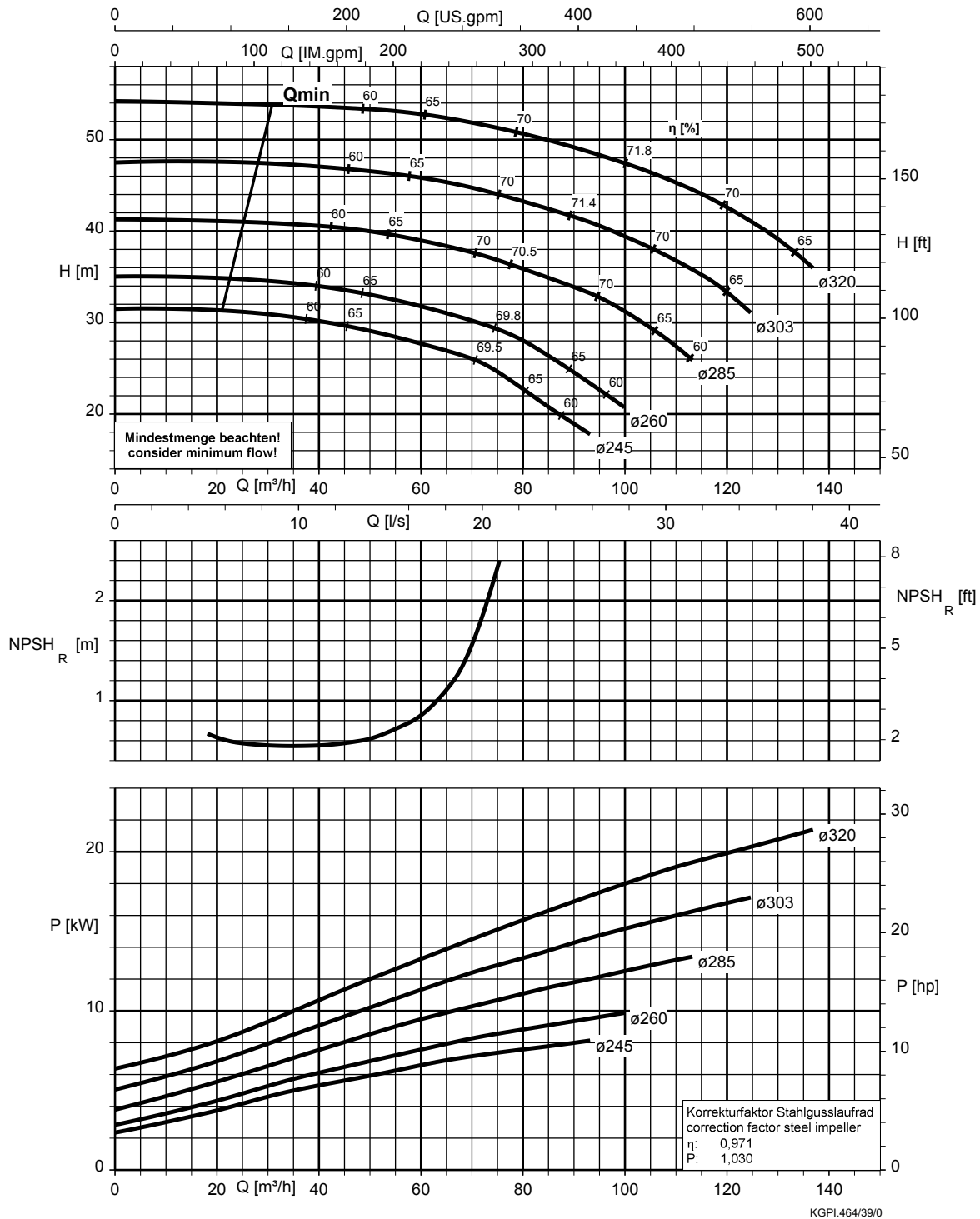
MegaCPK Inducer 100-065-200, $n = 1750 \text{ min}^{-1}$



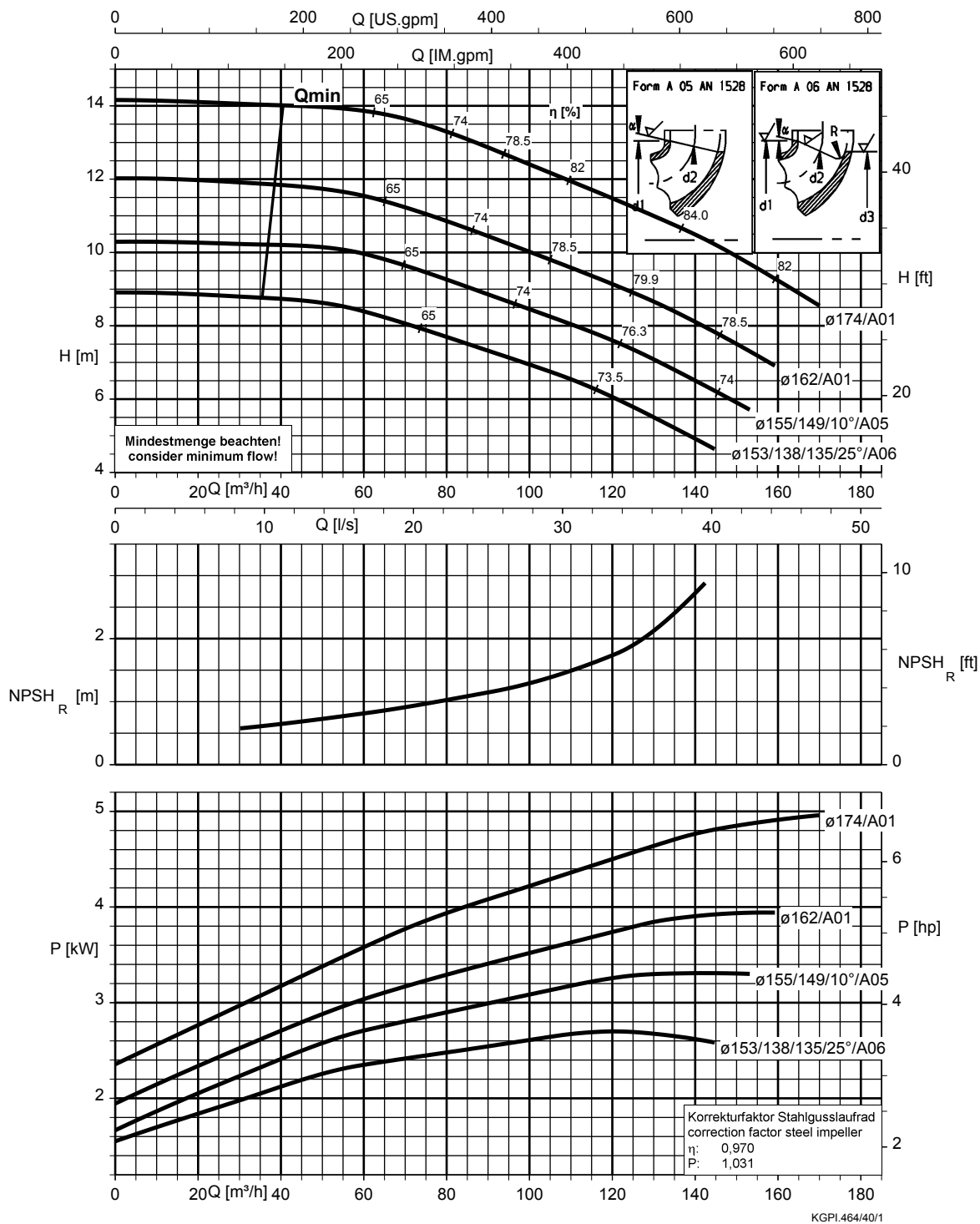
MegaCPK Inducer 100-065-250, $n = 1750 \text{ min}^{-1}$



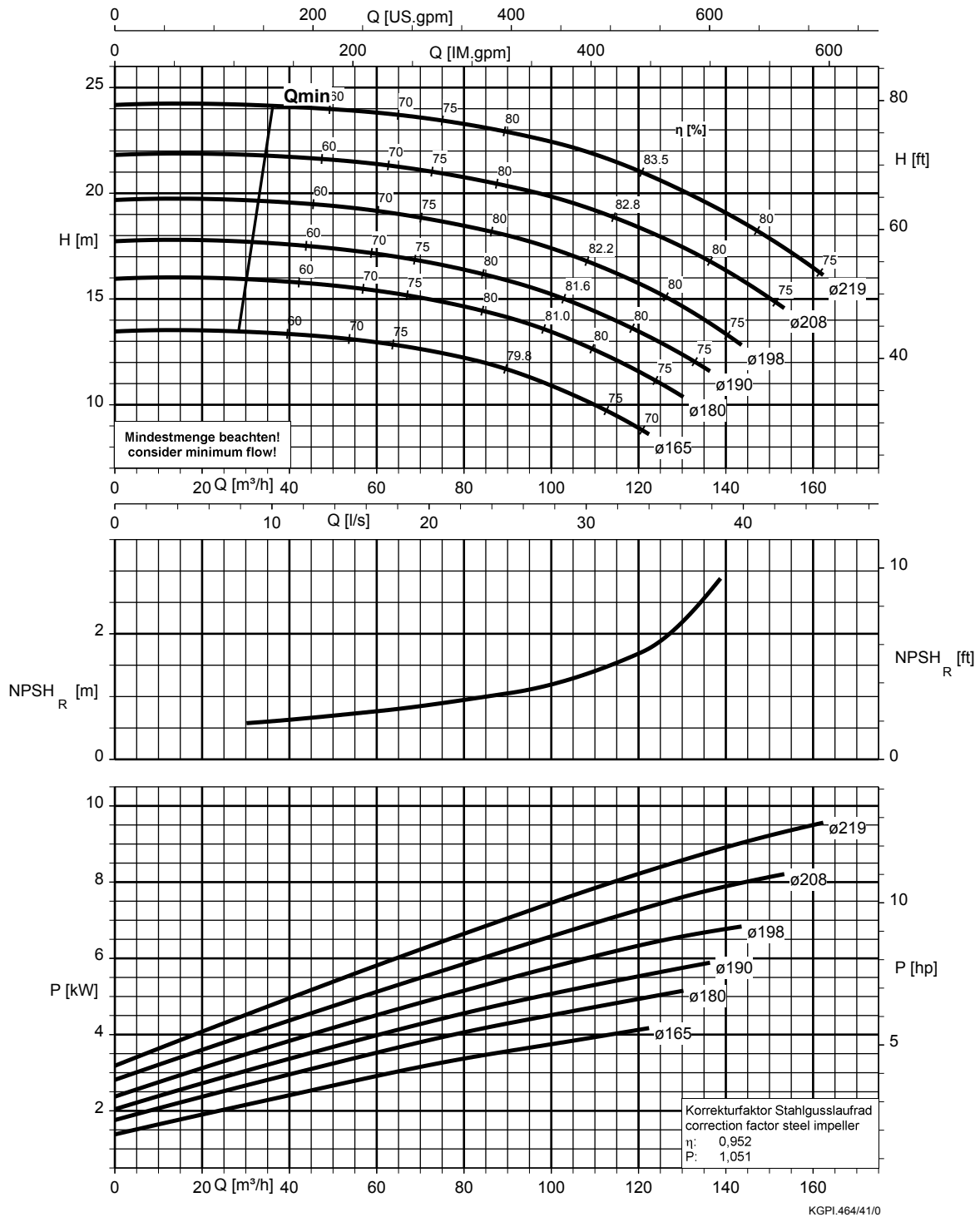
MegaCPK Inducer 100-065-315, $n = 1750 \text{ min}^{-1}$



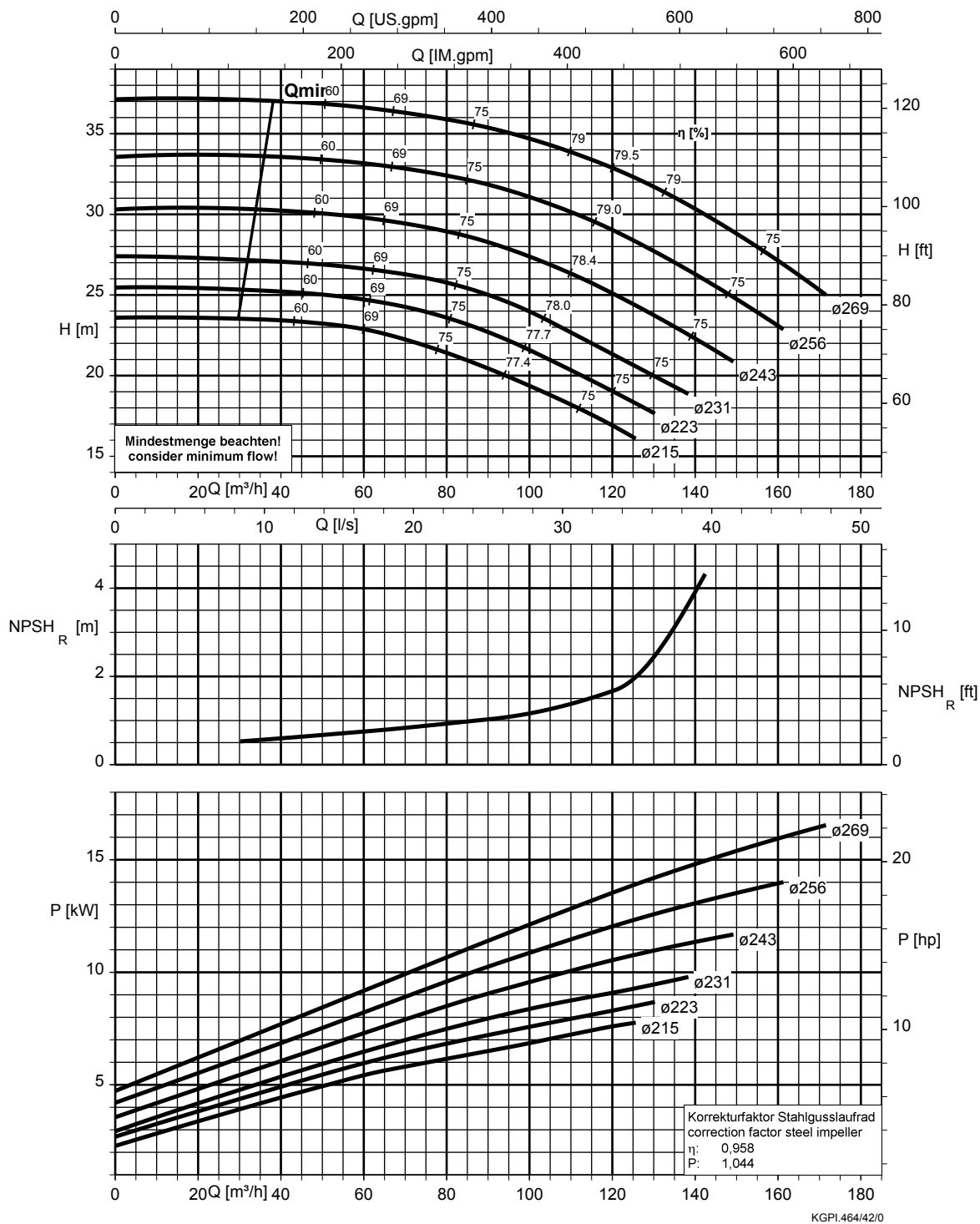
MegaCPK Inducer 125-080-160, $n = 1750 \text{ min}^{-1}$



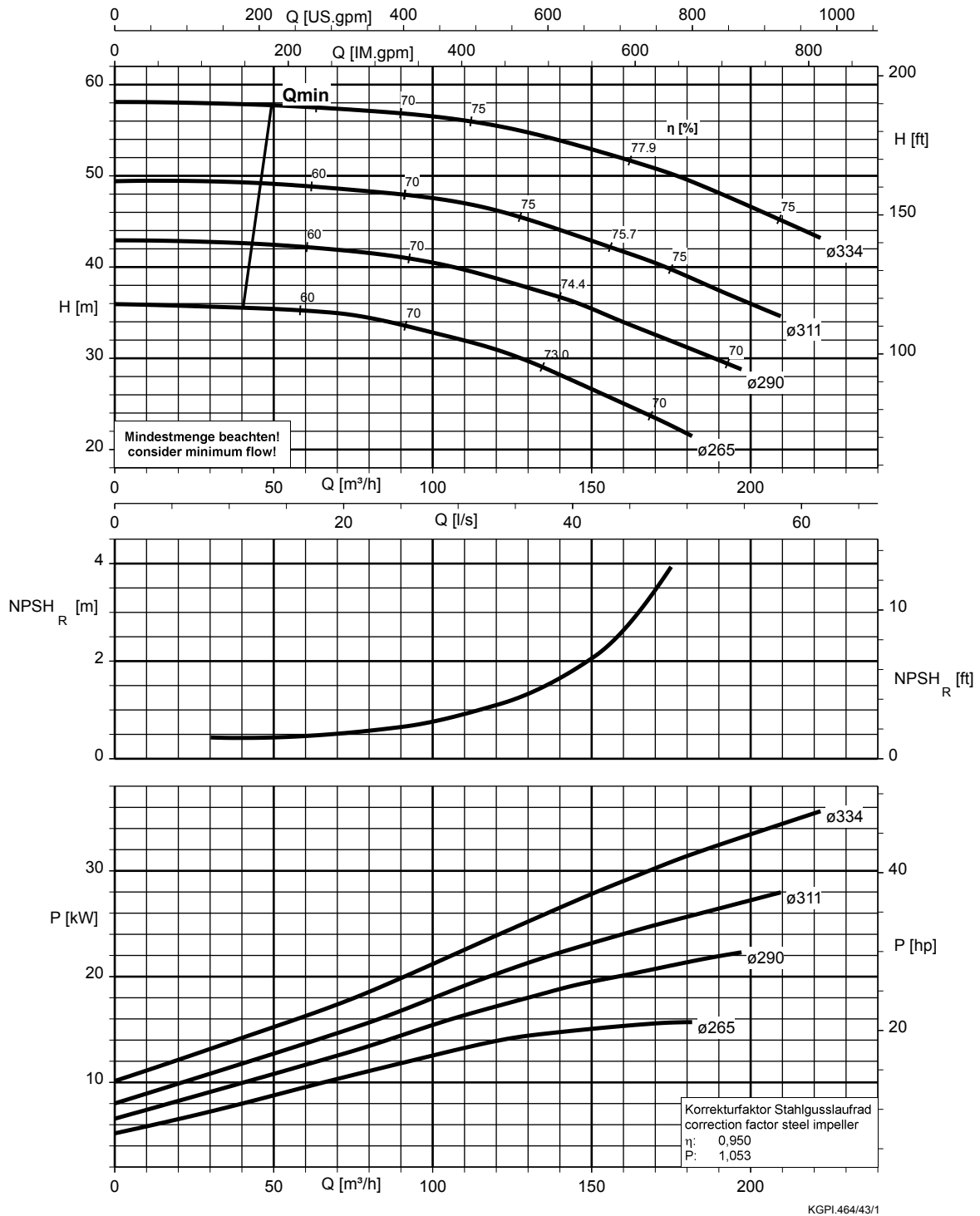
MegaCPK Inducer 125-080-200, $n = 1750 \text{ min}^{-1}$



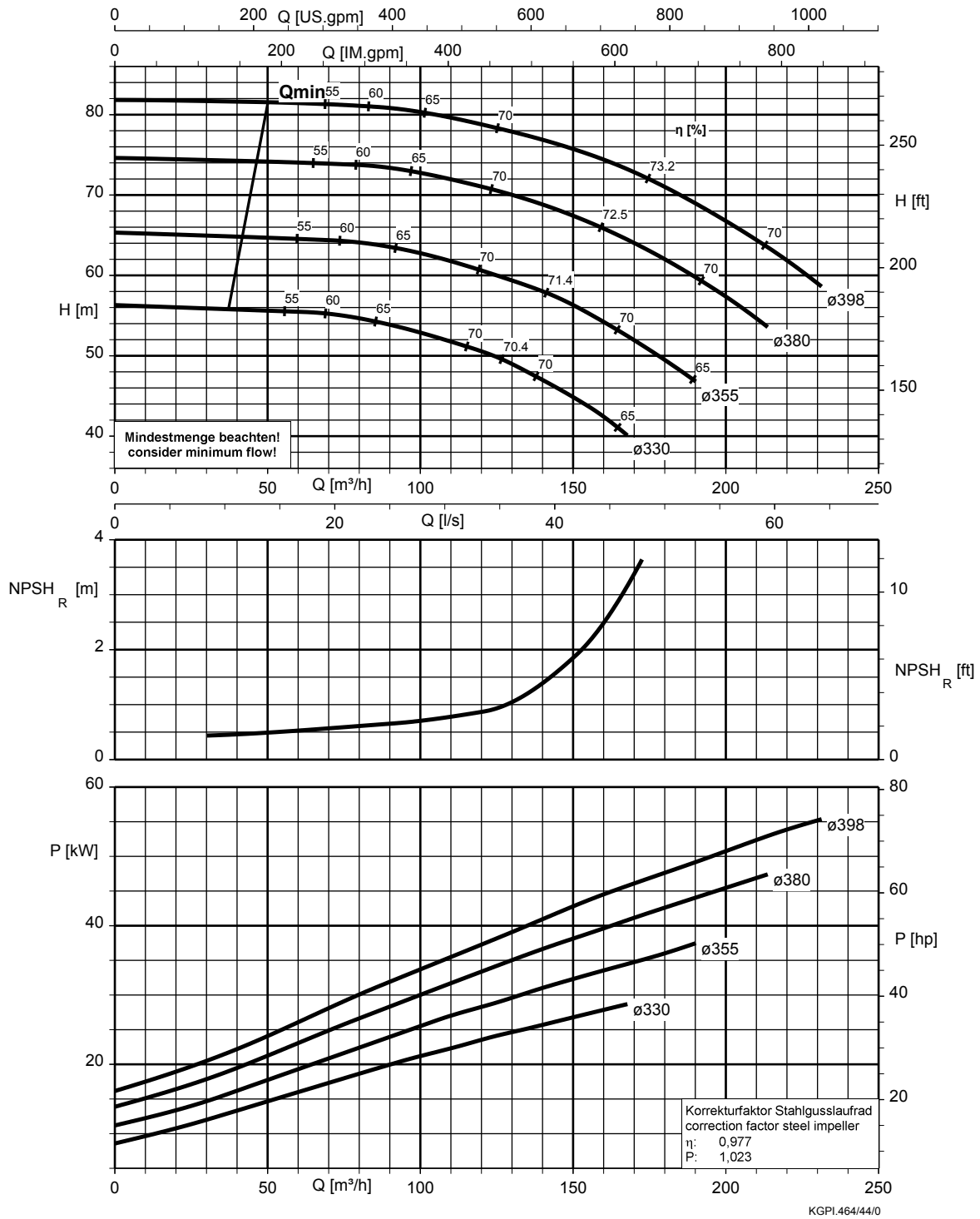
MegaCPK Inducer 125-080-250, $n = 1750 \text{ min}^{-1}$



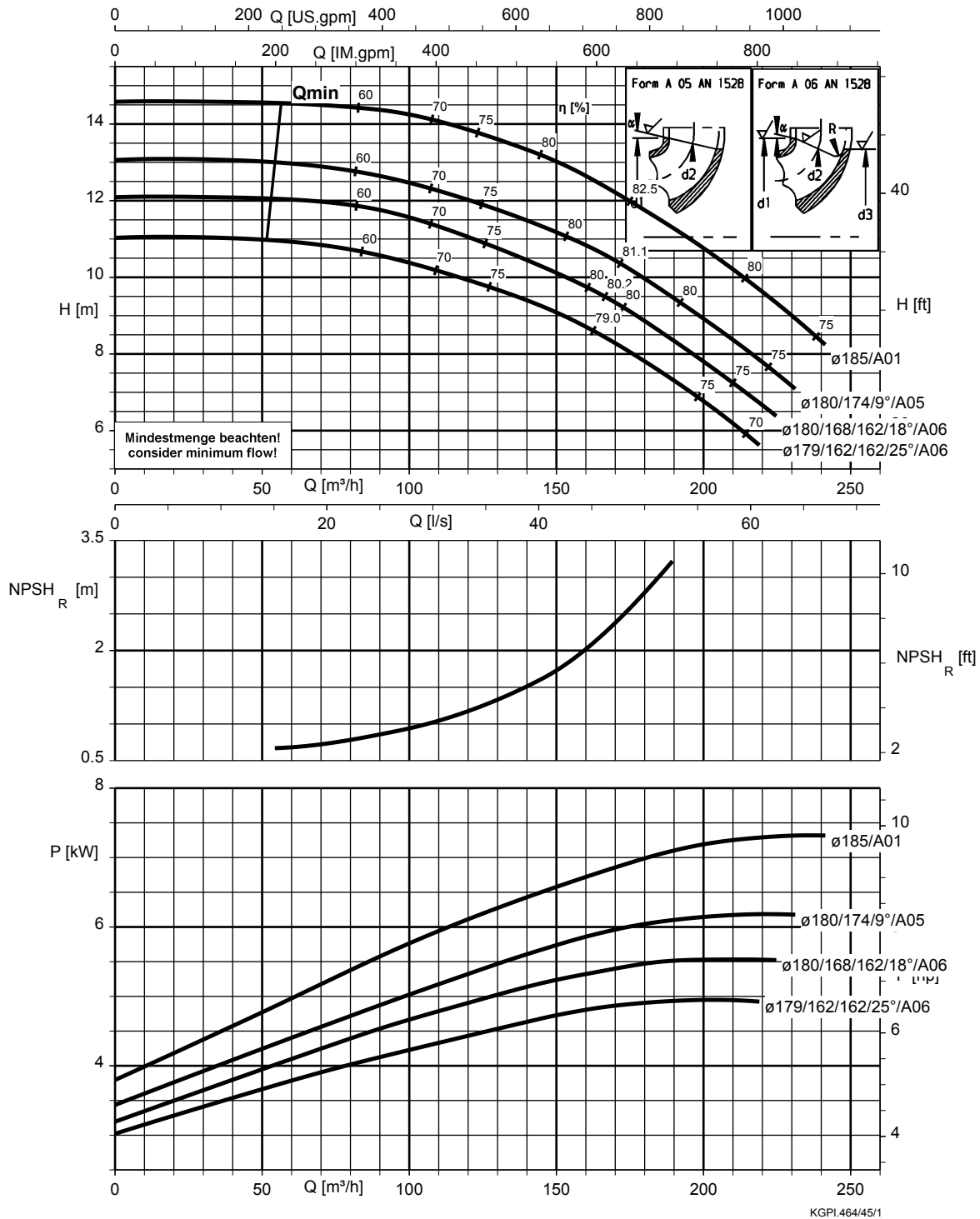
MegaCPK Inducer 125-080-315, $n = 1750 \text{ min}^{-1}$



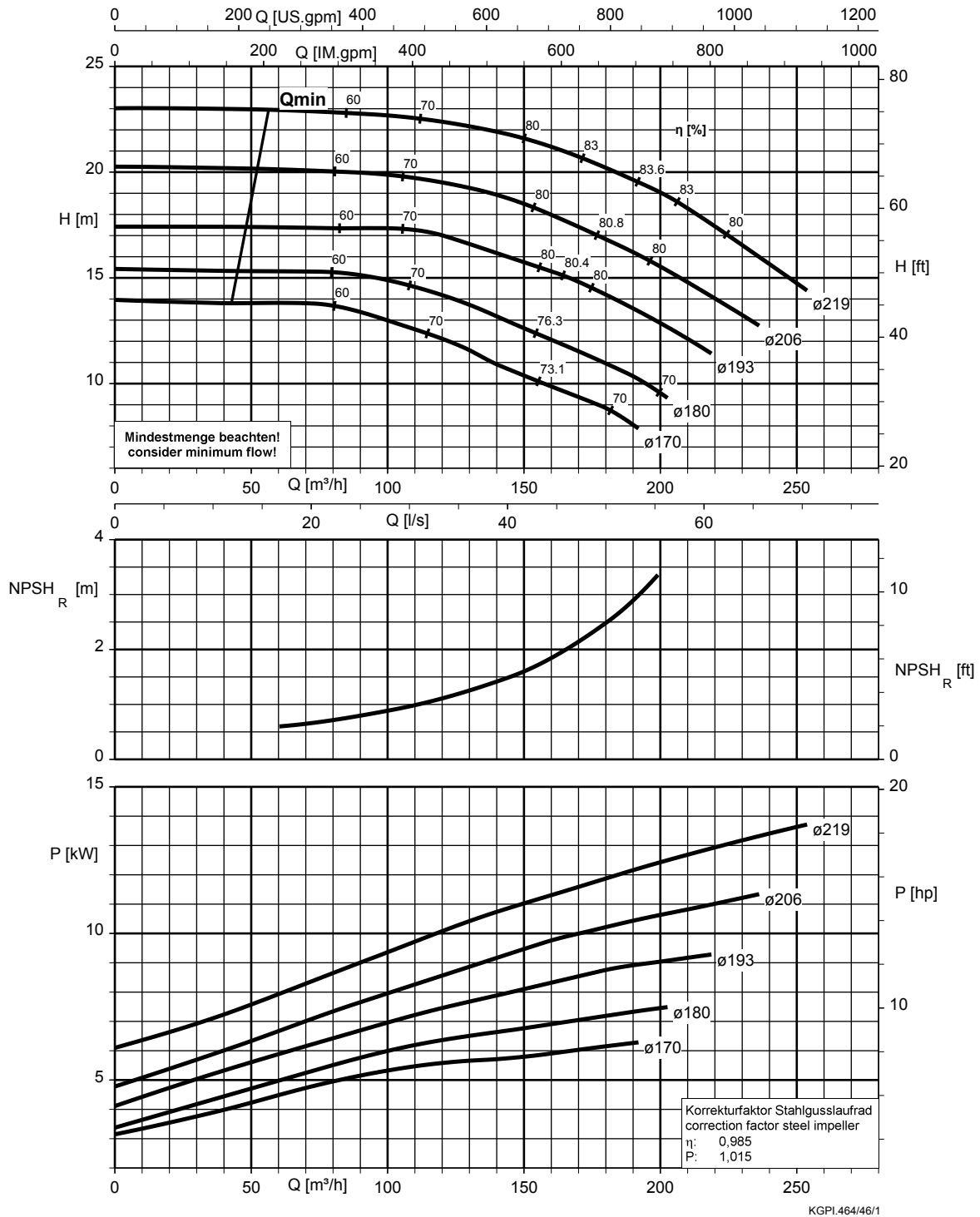
MegaCPK Inducer 125-080-400, $n = 1750 \text{ min}^{-1}$



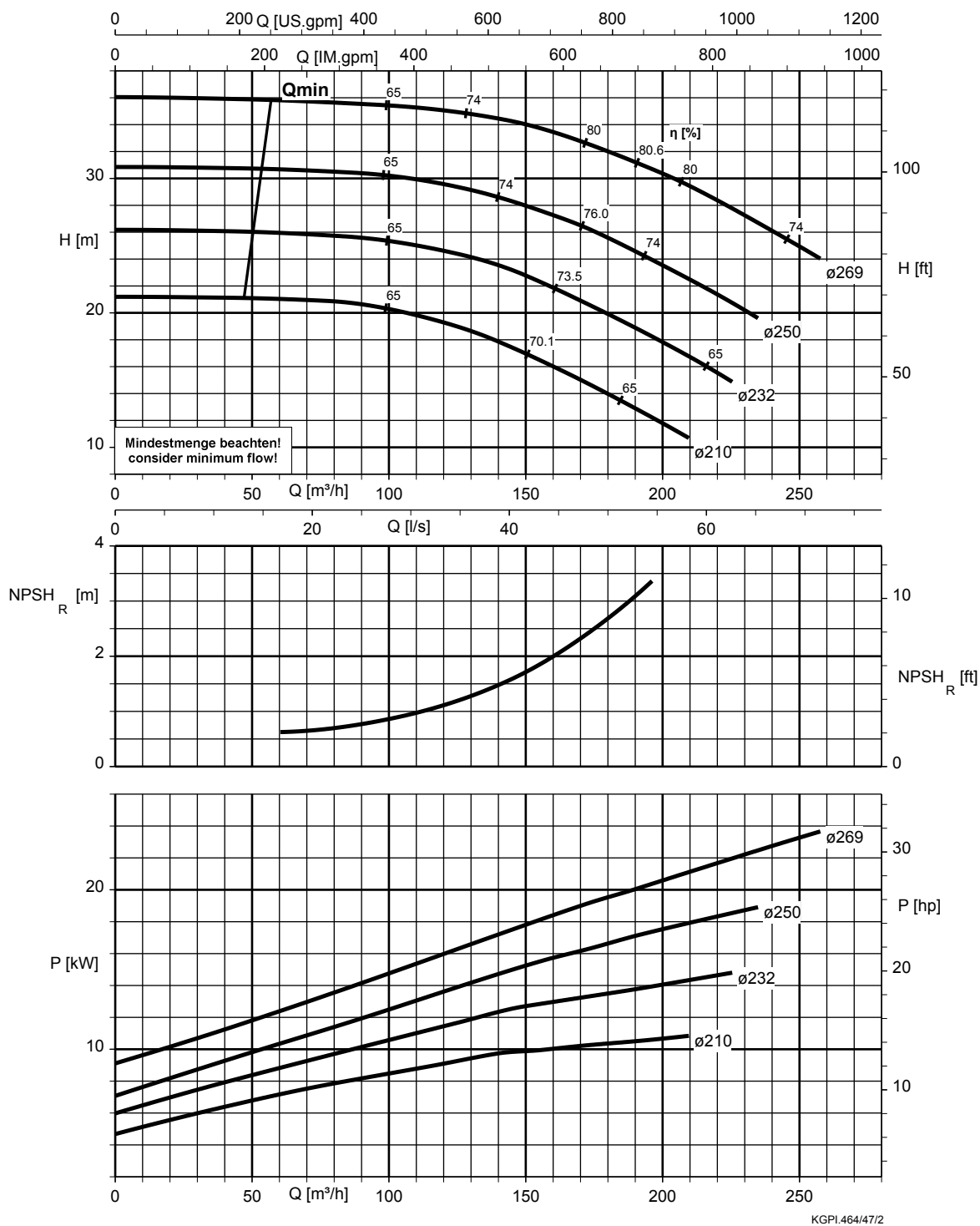
MegaCPK Inducer 125-100-160, $n = 1750 \text{ min}^{-1}$



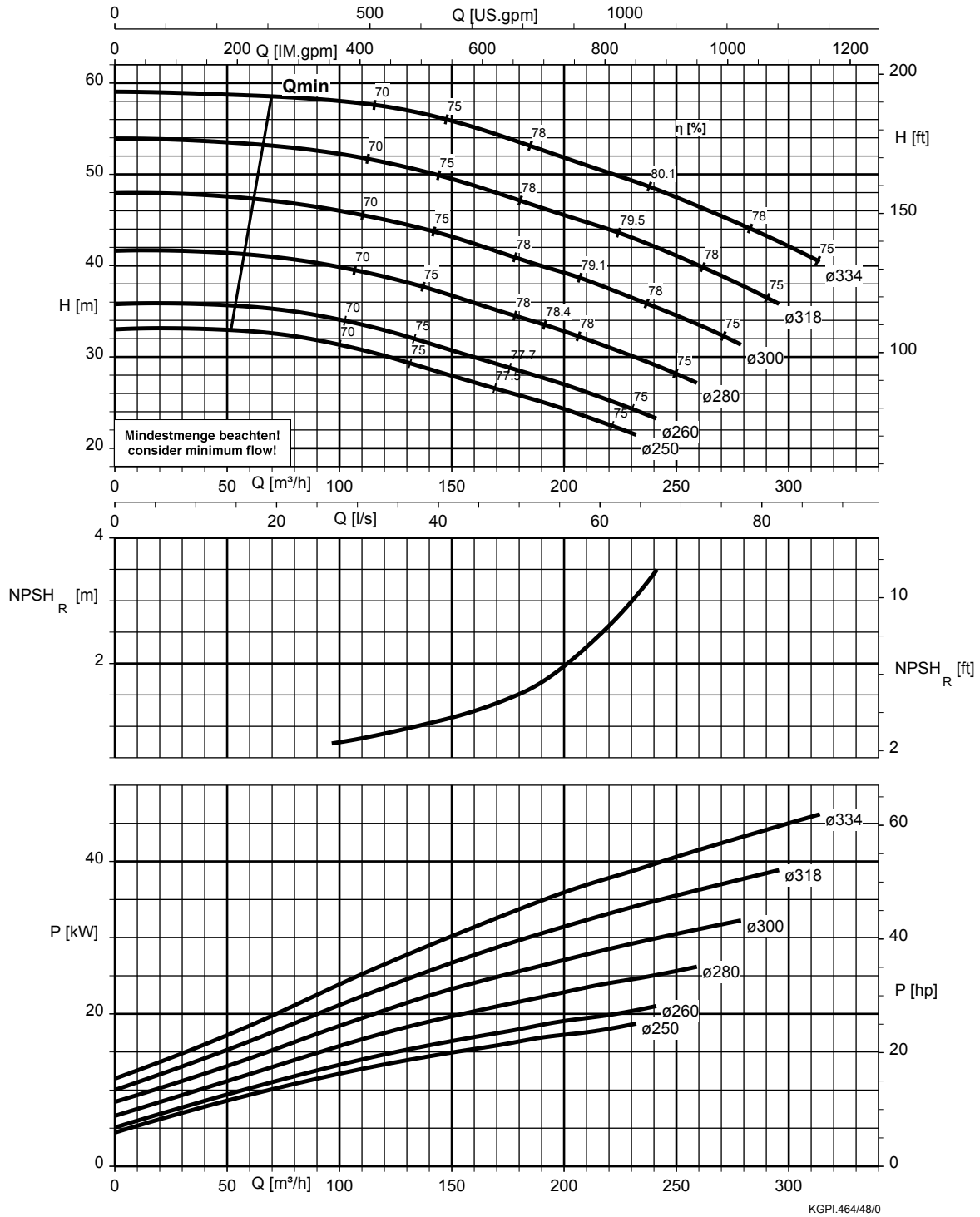
MegaCPK Inducer 125-100-200, $n = 1750 \text{ min}^{-1}$



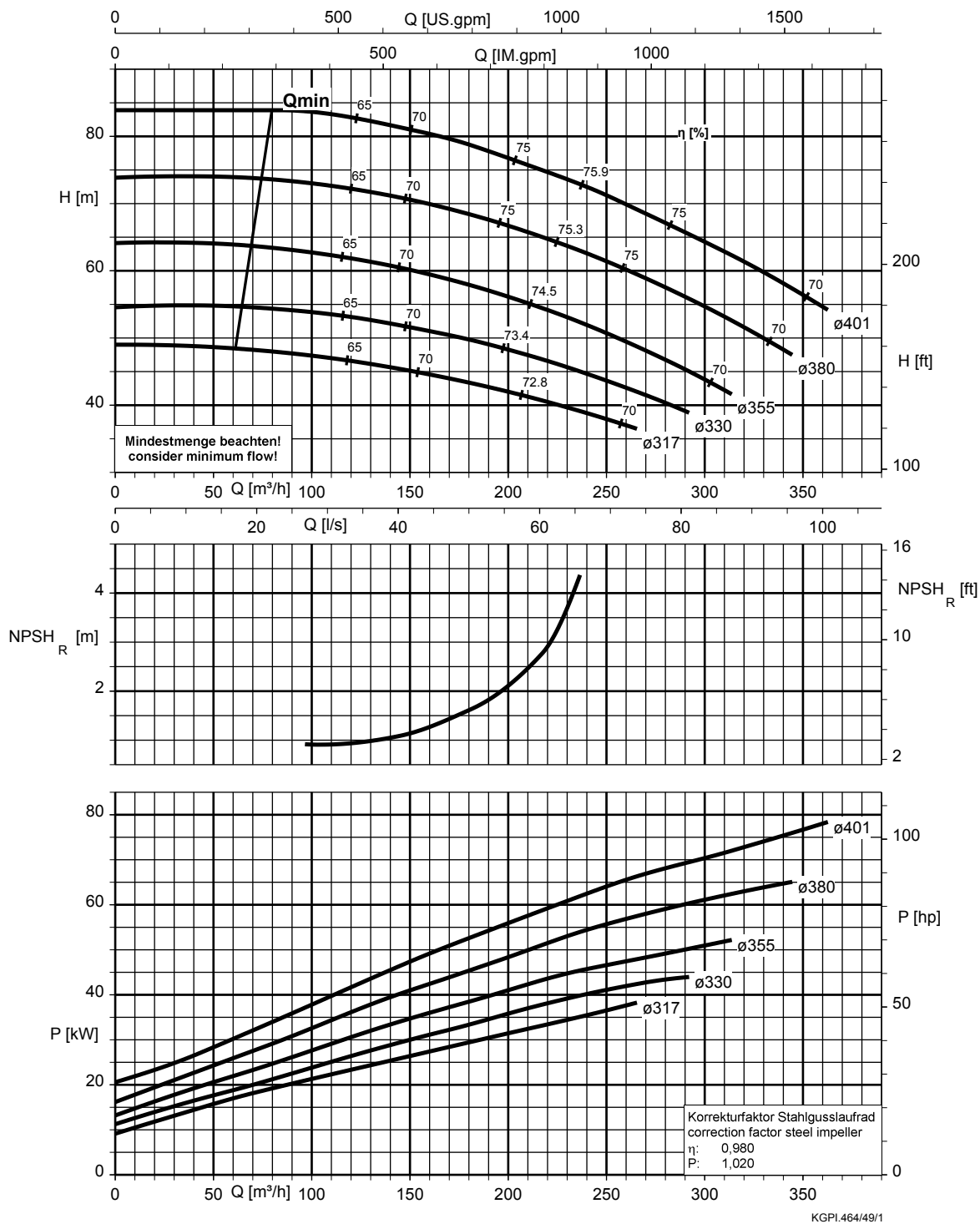
MegaCPK Inducer 125-100-250, $n = 1750 \text{ min}^{-1}$



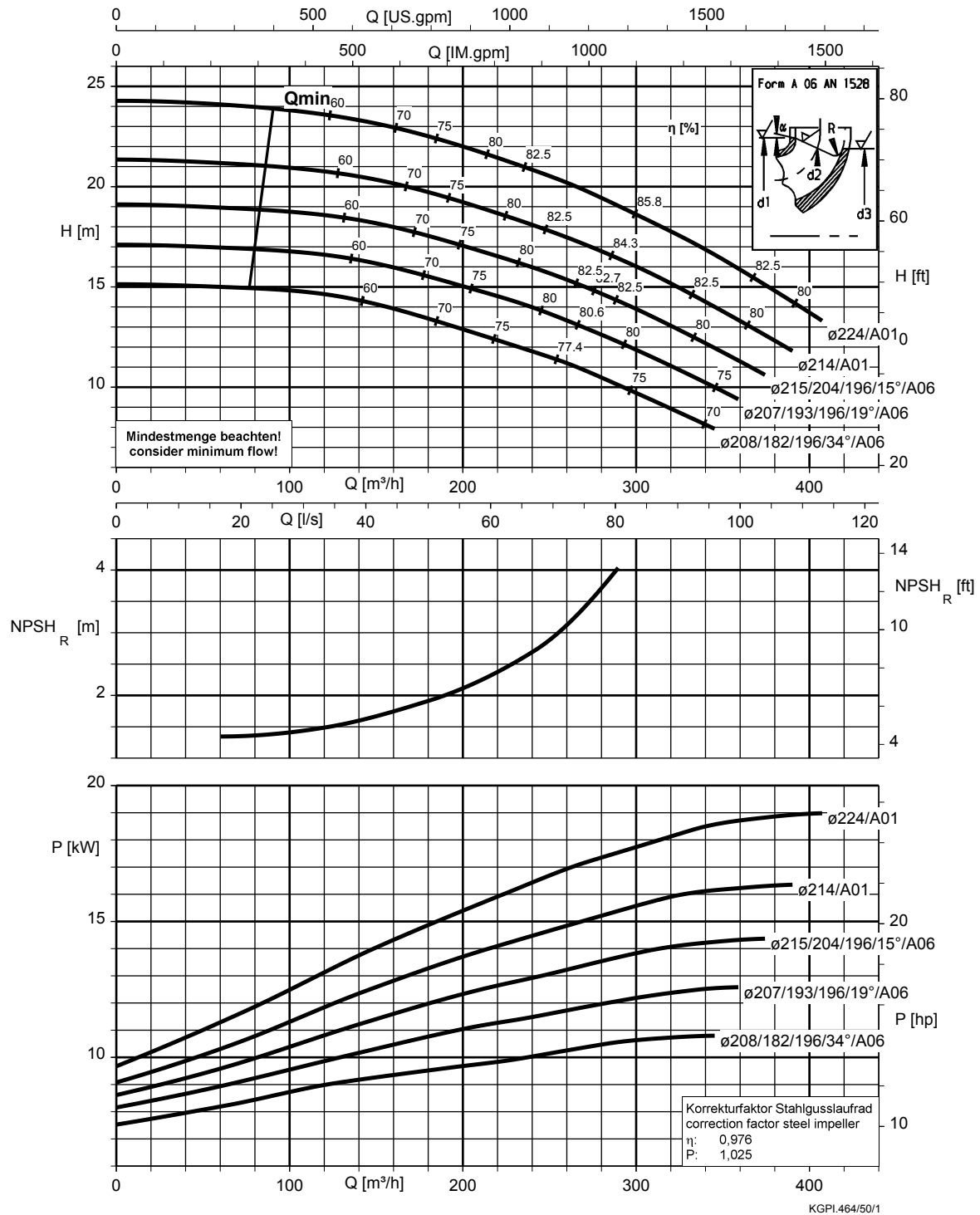
MegaCPK Inducer 125-100-315, $n = 1750 \text{ min}^{-1}$



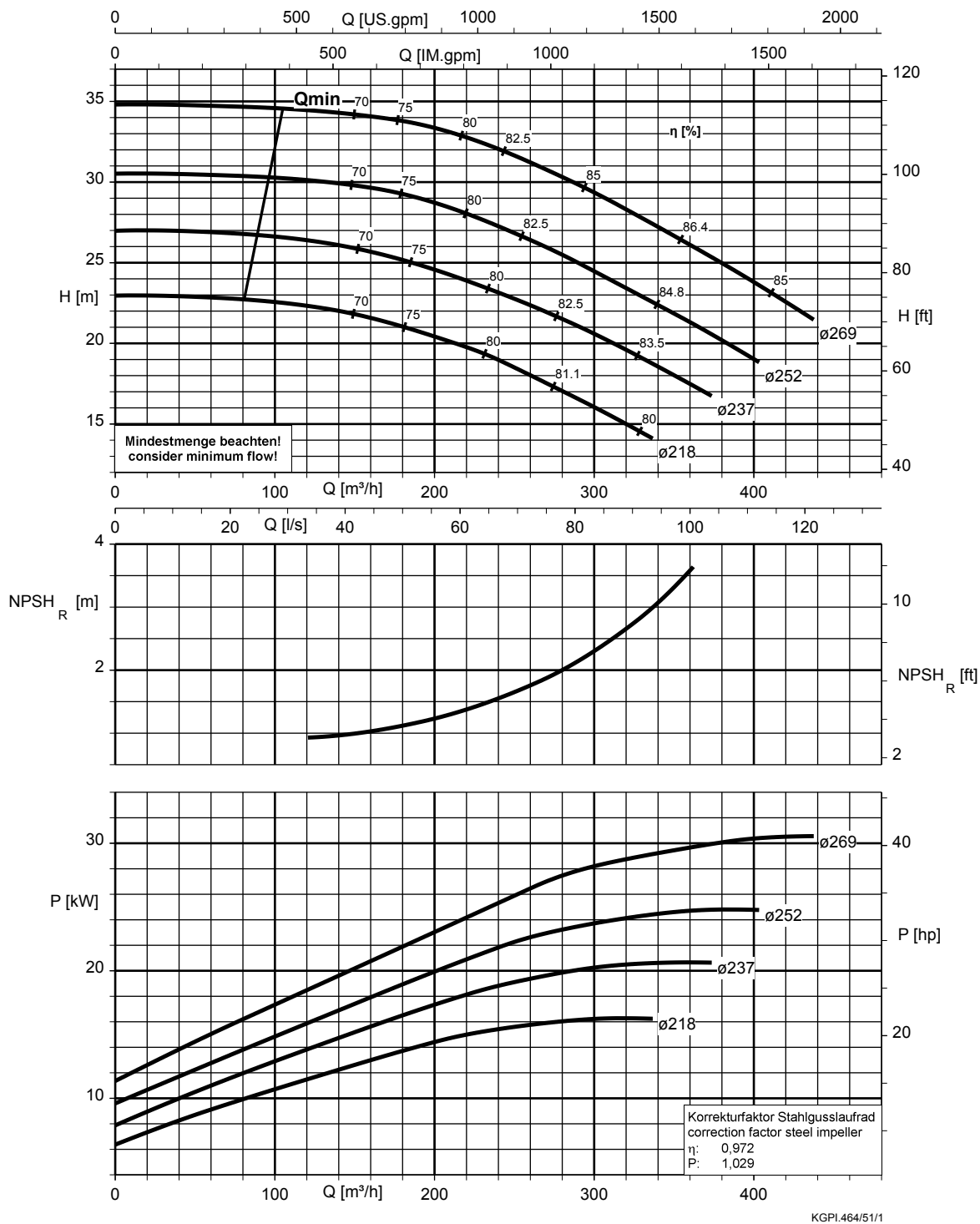
MegaCPK Inducer 125-100-400, $n = 1750 \text{ min}^{-1}$



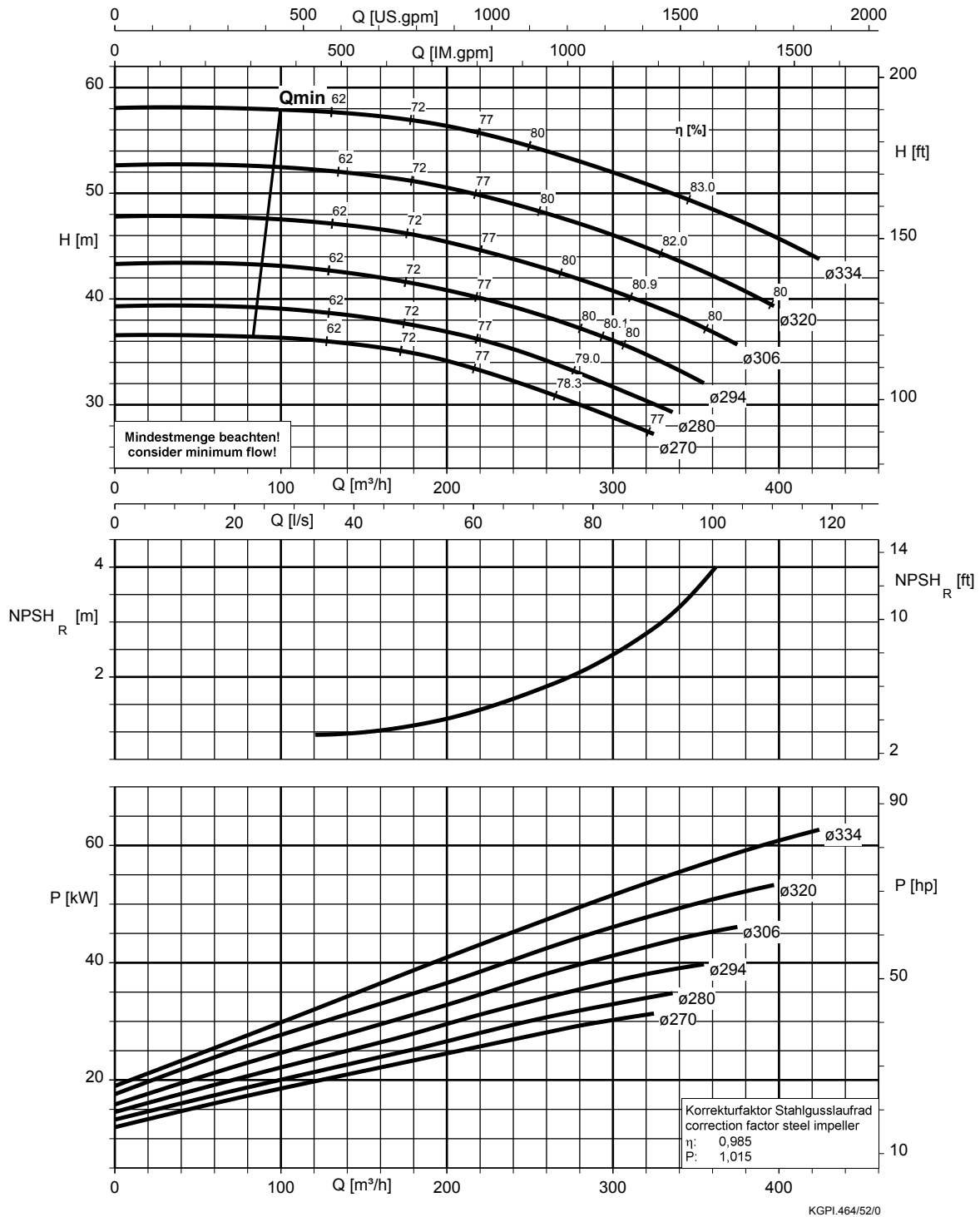
MegaCPK Inducer 150-125-200, $n = 1750 \text{ min}^{-1}$



MegaCPK Inducer 150-125-250, $n = 1750 \text{ min}^{-1}$



MegaCPK Inducer 150-125-315, $n = 1750 \text{ min}^{-1}$

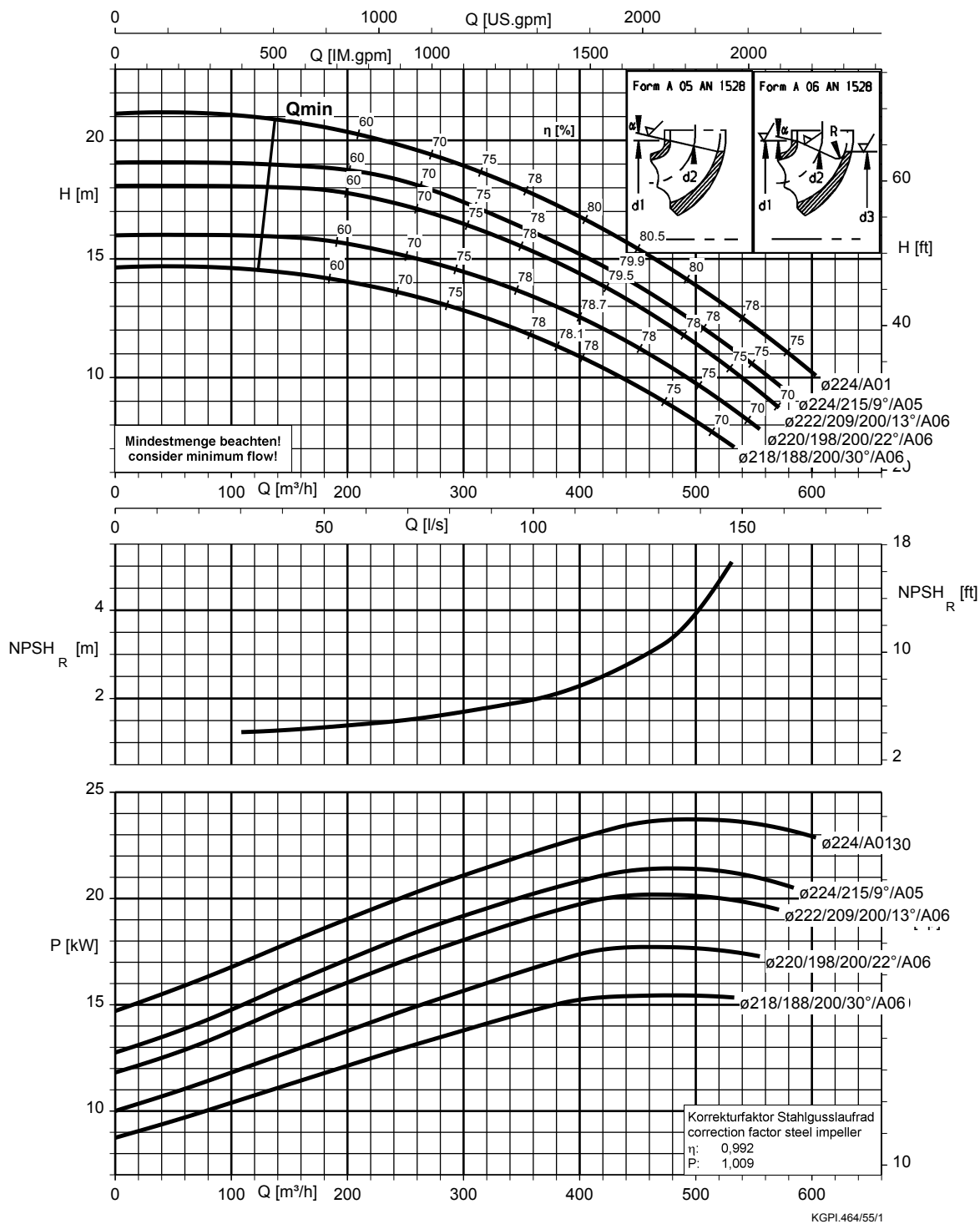


The top graph shows the head (H) in meters and feet versus flow rate (Q) in US.gpm, IM.gpm, m³/h, and l/s. It includes efficiency curves (η [%]) and a minimum flow warning box.

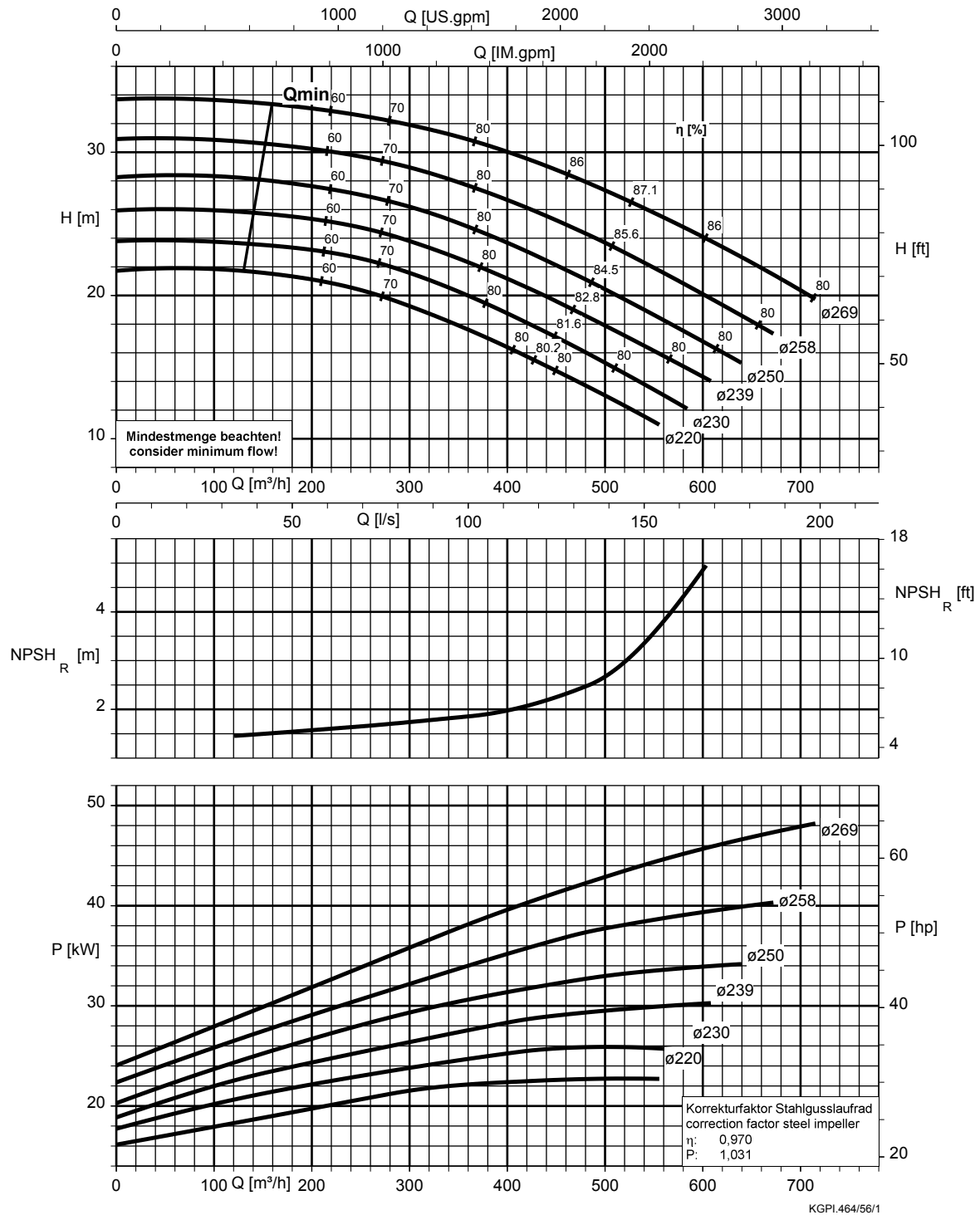
The middle graph shows the required net positive suction head (NPSH_R) in feet versus flow rate (Q) in m³/h.

The bottom graph shows the power (P) in kW and hp versus flow rate (Q) in m³/h. It includes a correction factor box for steel impellers.

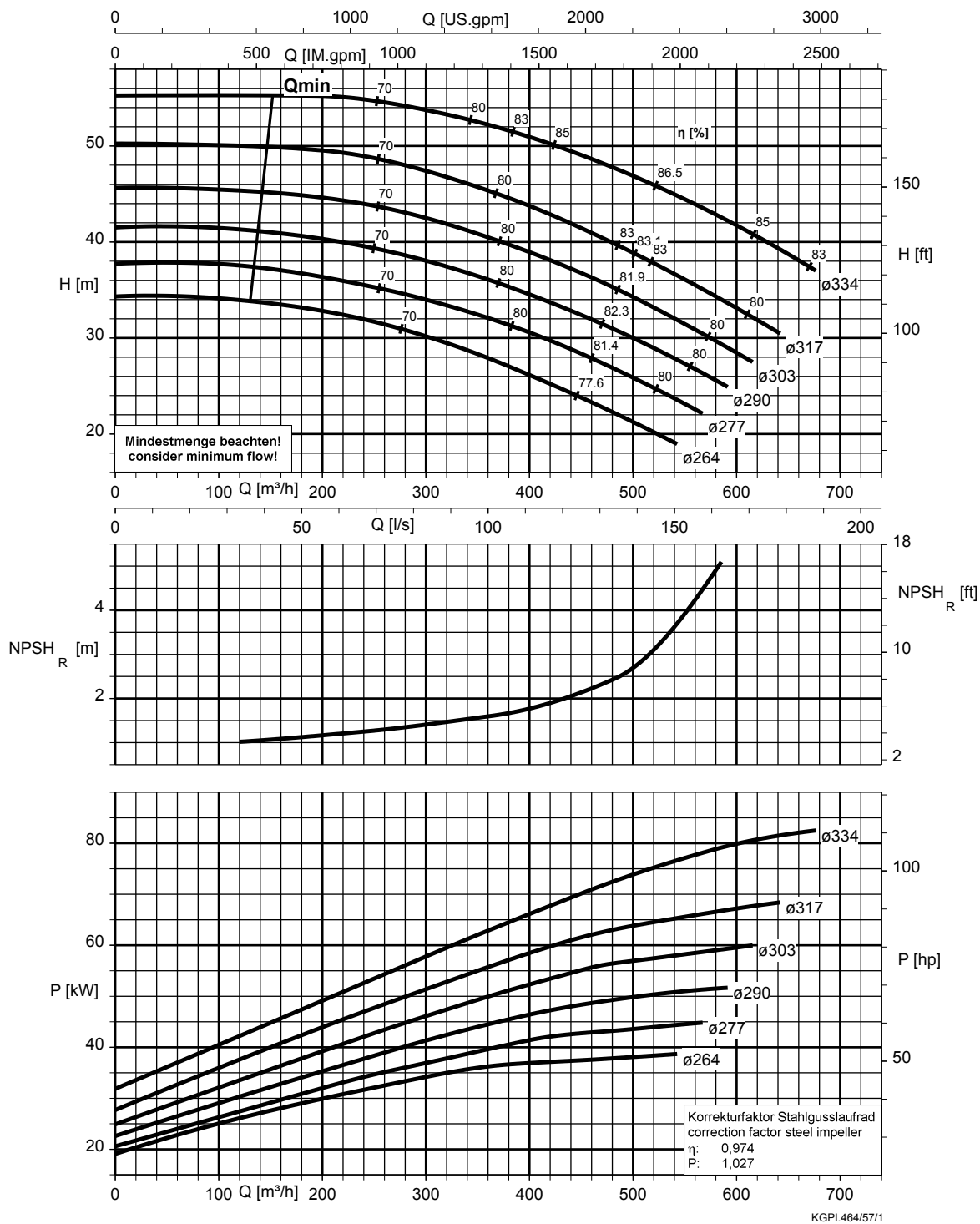
MegaCPK Inducer 200-150-200, $n = 1750 \text{ min}^{-1}$



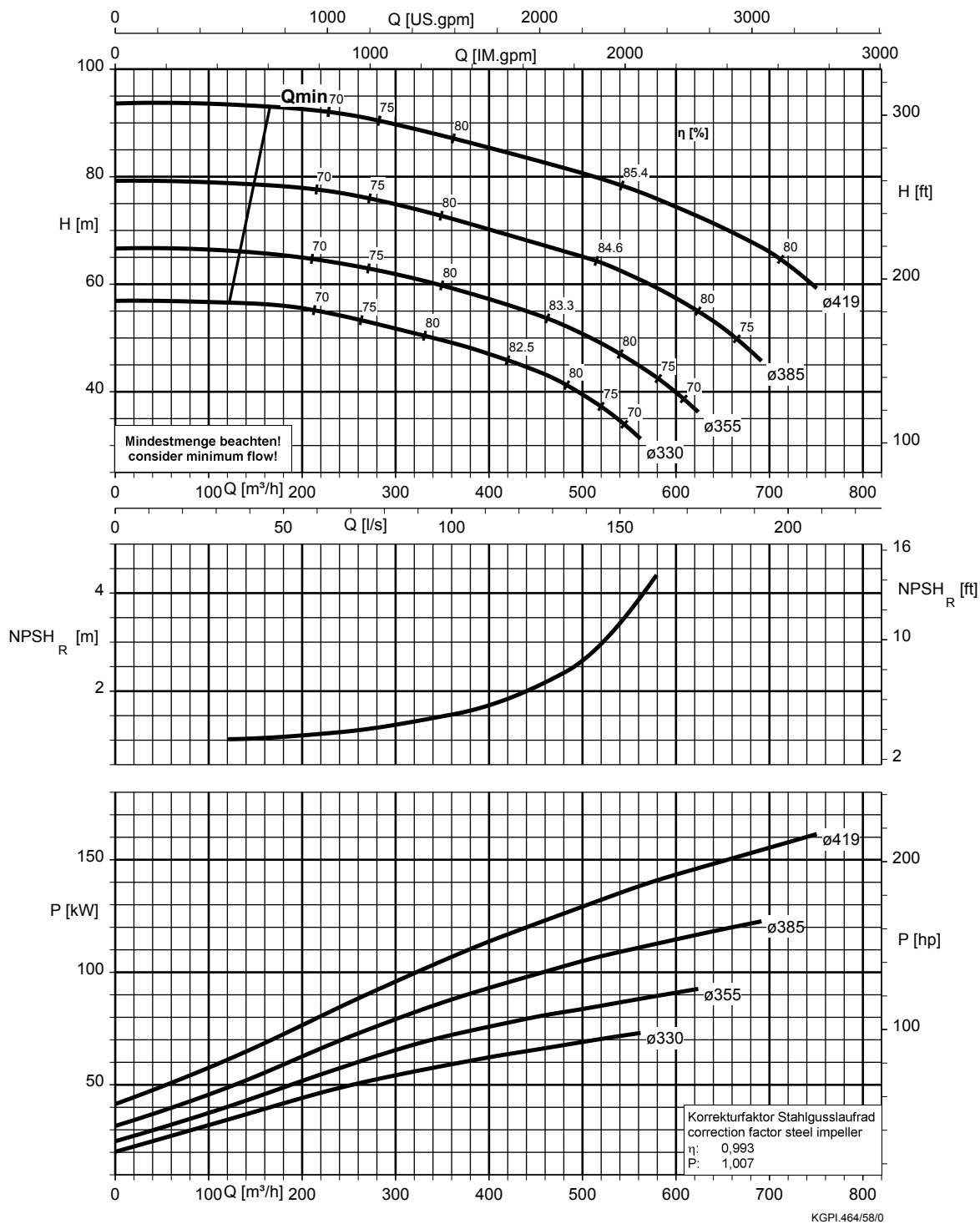
MegaCPK Inducer 200-150-250, $n = 1750 \text{ min}^{-1}$



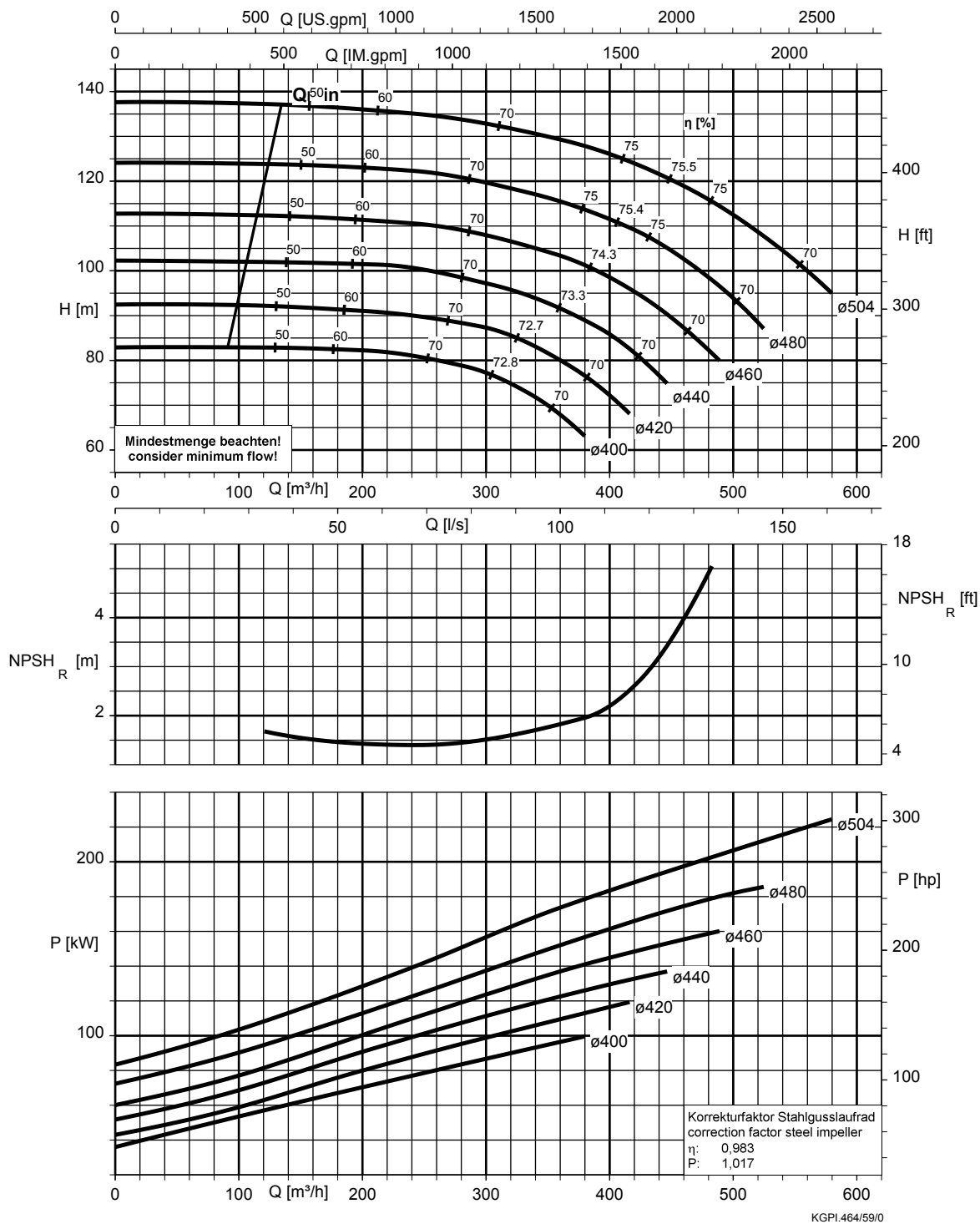
MegaCPK Inducer 200-150-315, $n = 1750 \text{ min}^{-1}$



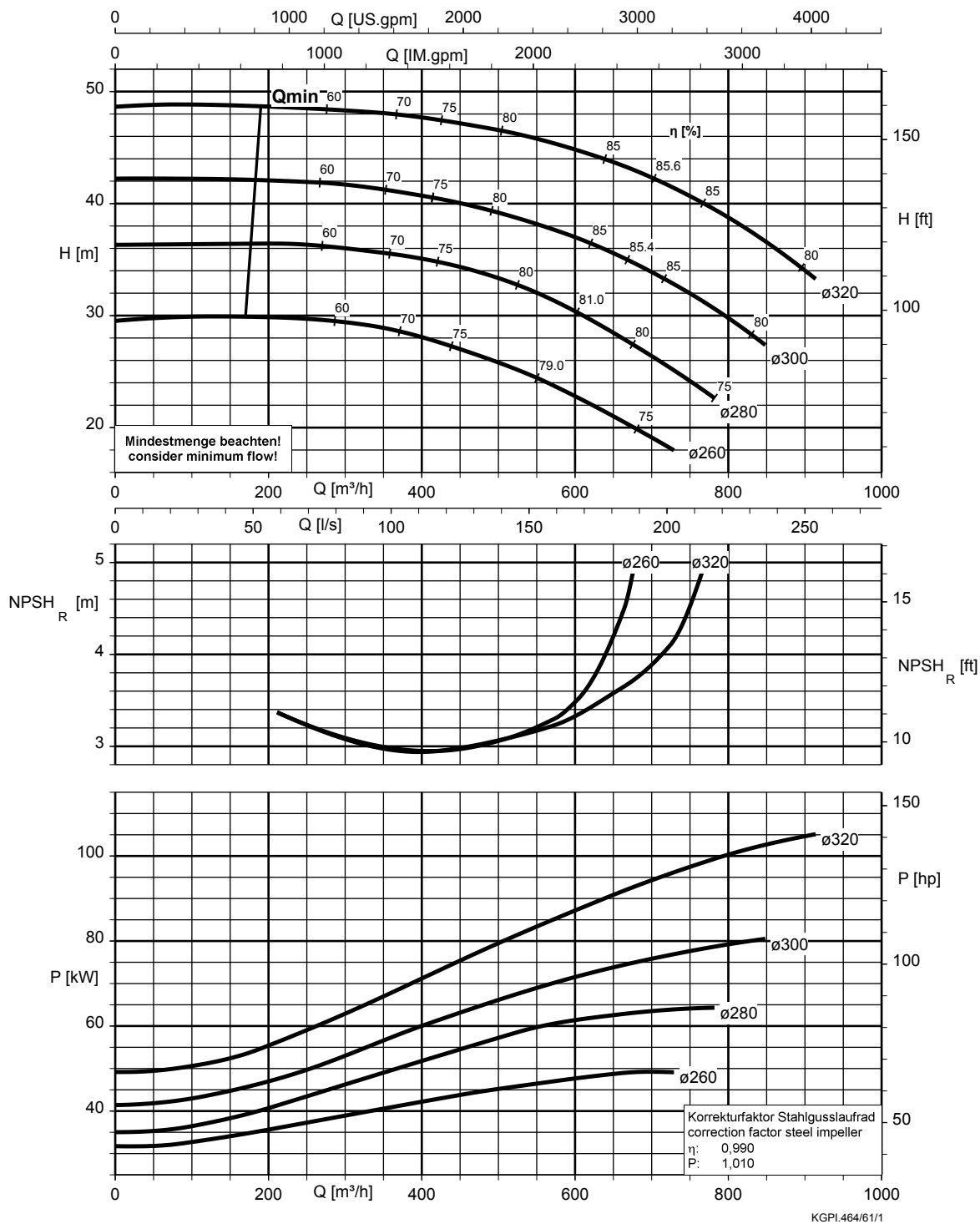
MegaCPK Inducer 200-150-400, $n = 1750 \text{ min}^{-1}$



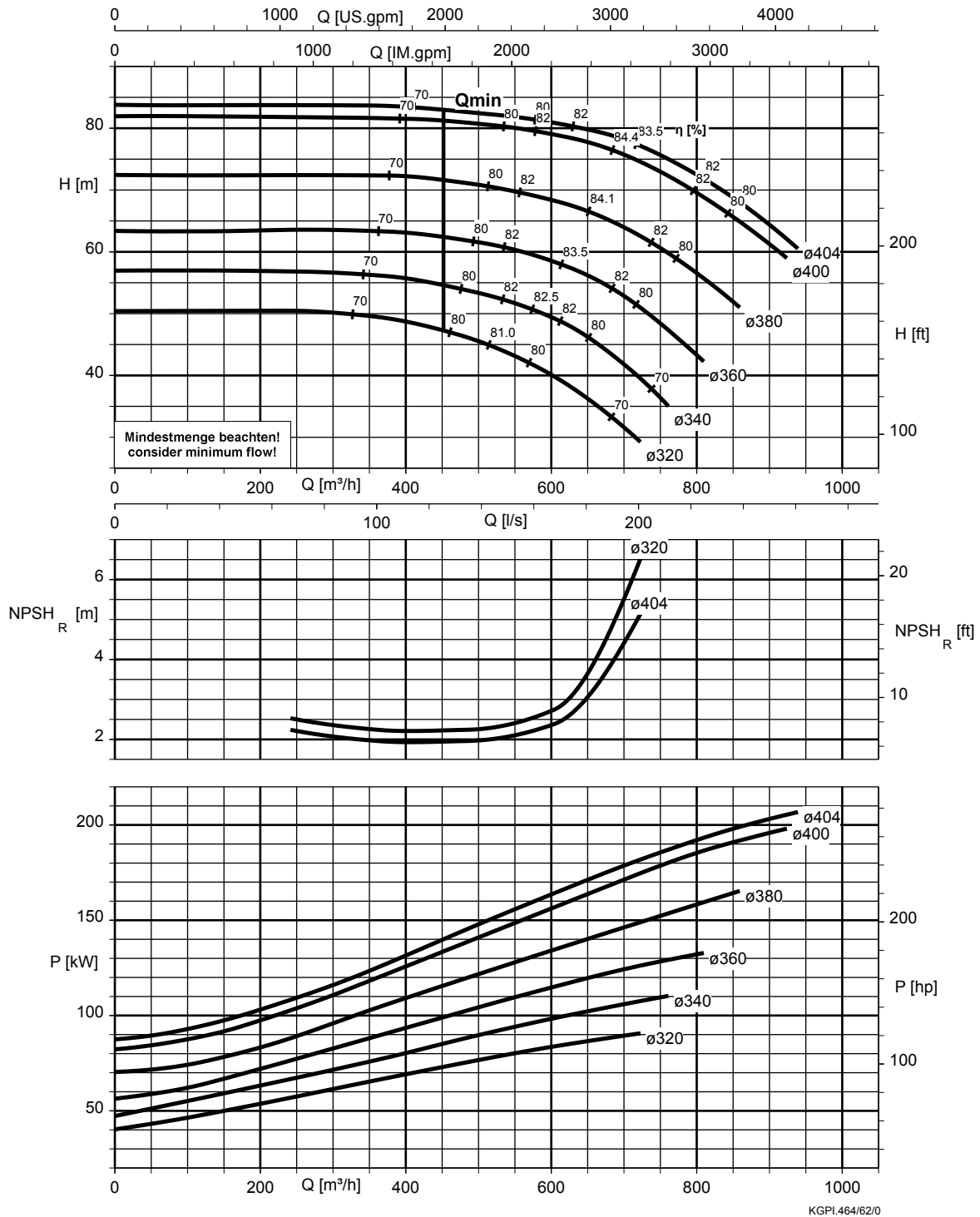
MegaCPK Inducer 200-150-500, $n = 1750 \text{ min}^{-1}$



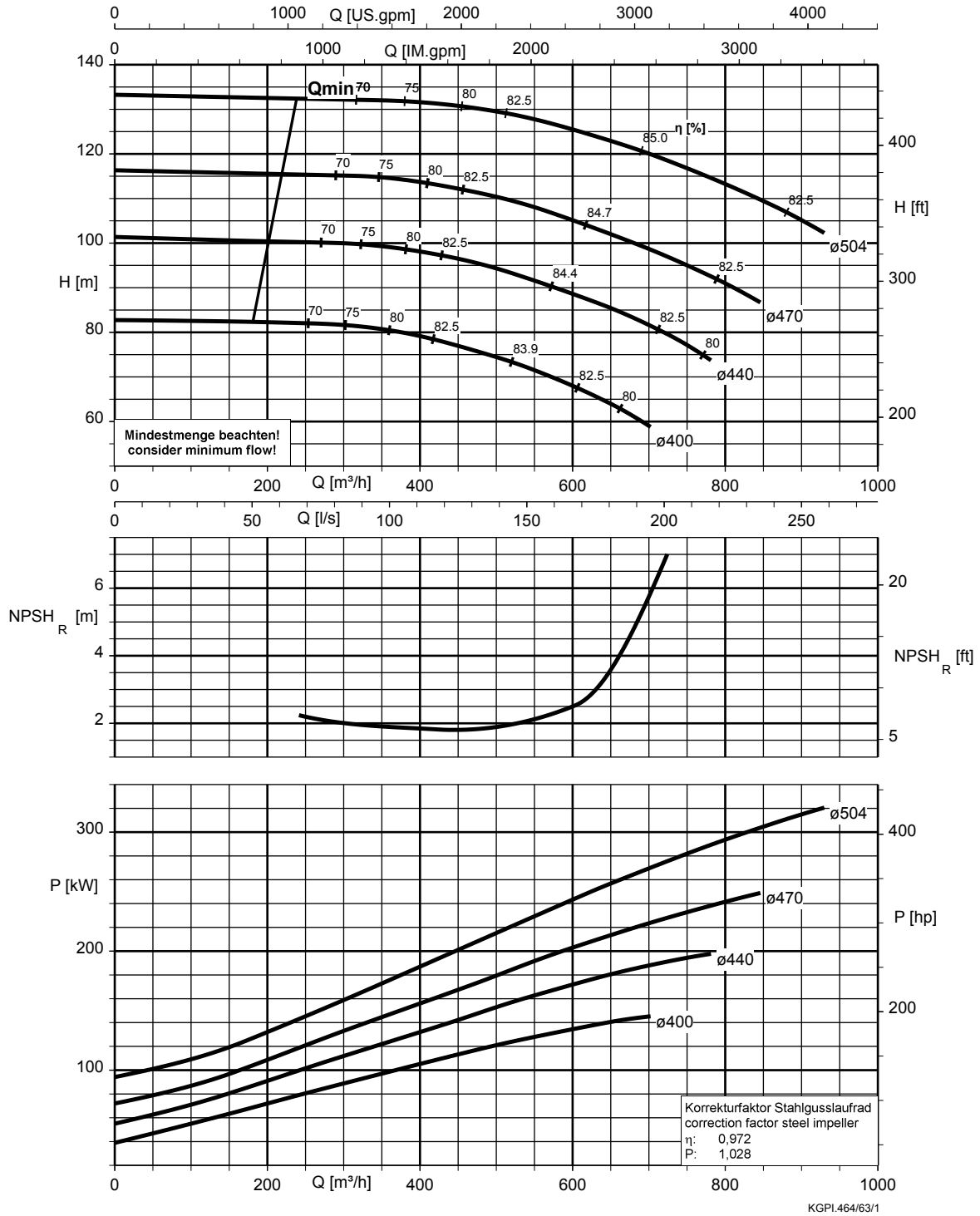
MegaCPK Inducer 250-200-315, $n = 1750 \text{ min}^{-1}$



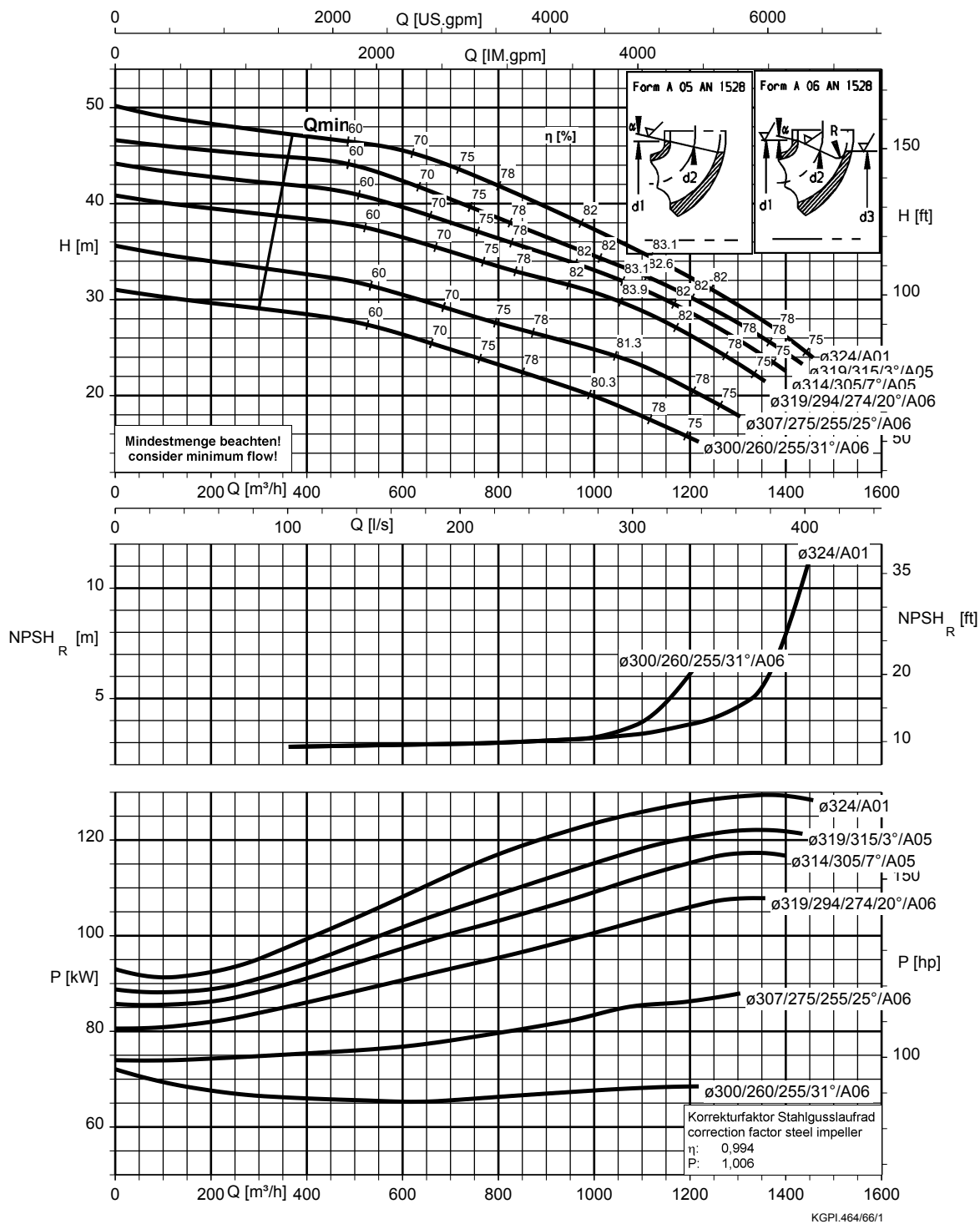
MegaCPK Inducer 250-200-400, $n = 1750 \text{ min}^{-1}$



MegaCPK Inducer 250-200-500, $n = 1750 \text{ min}^{-1}$

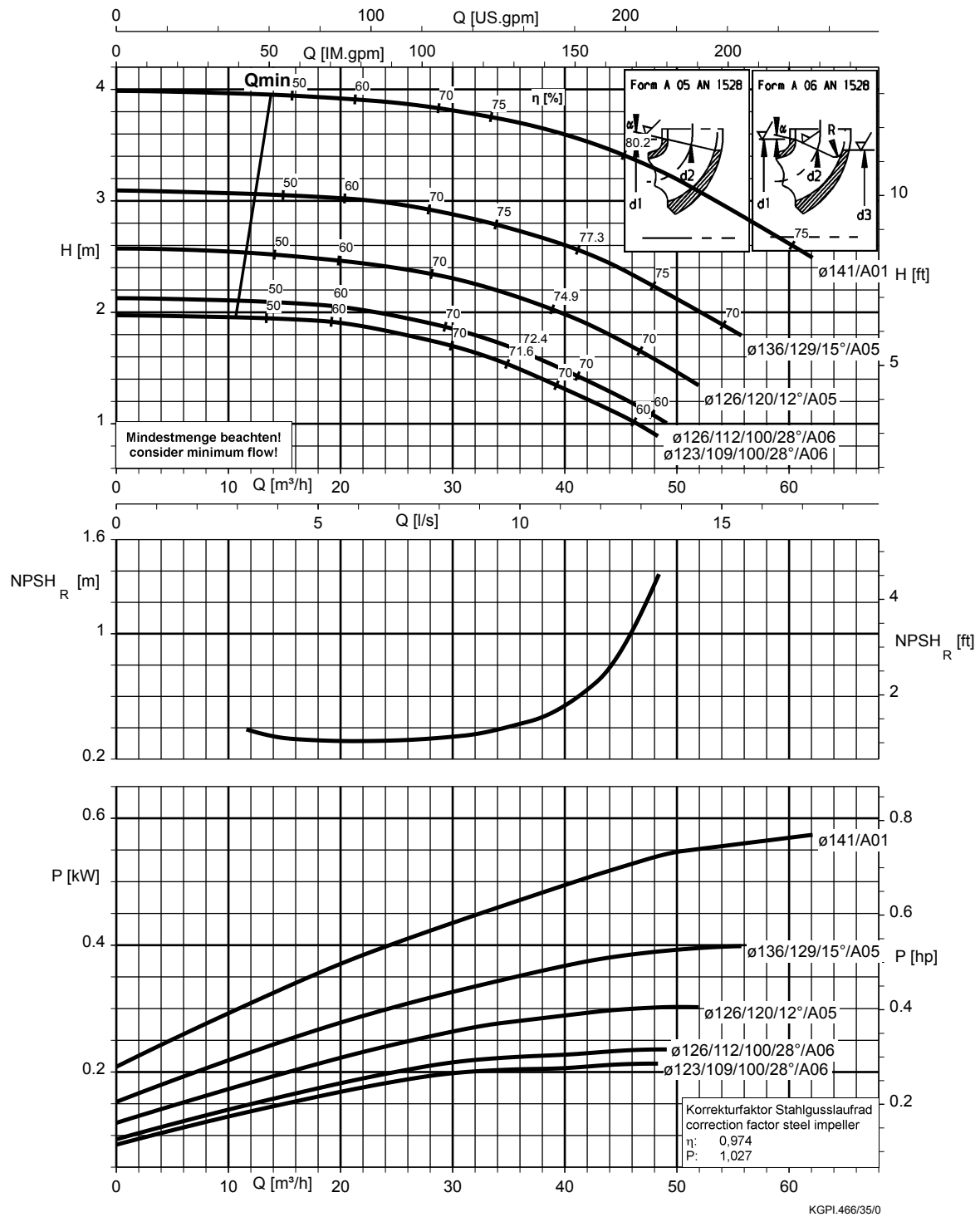


MegaCPK Inducer 300-250-315, $n = 1750 \text{ min}^{-1}$

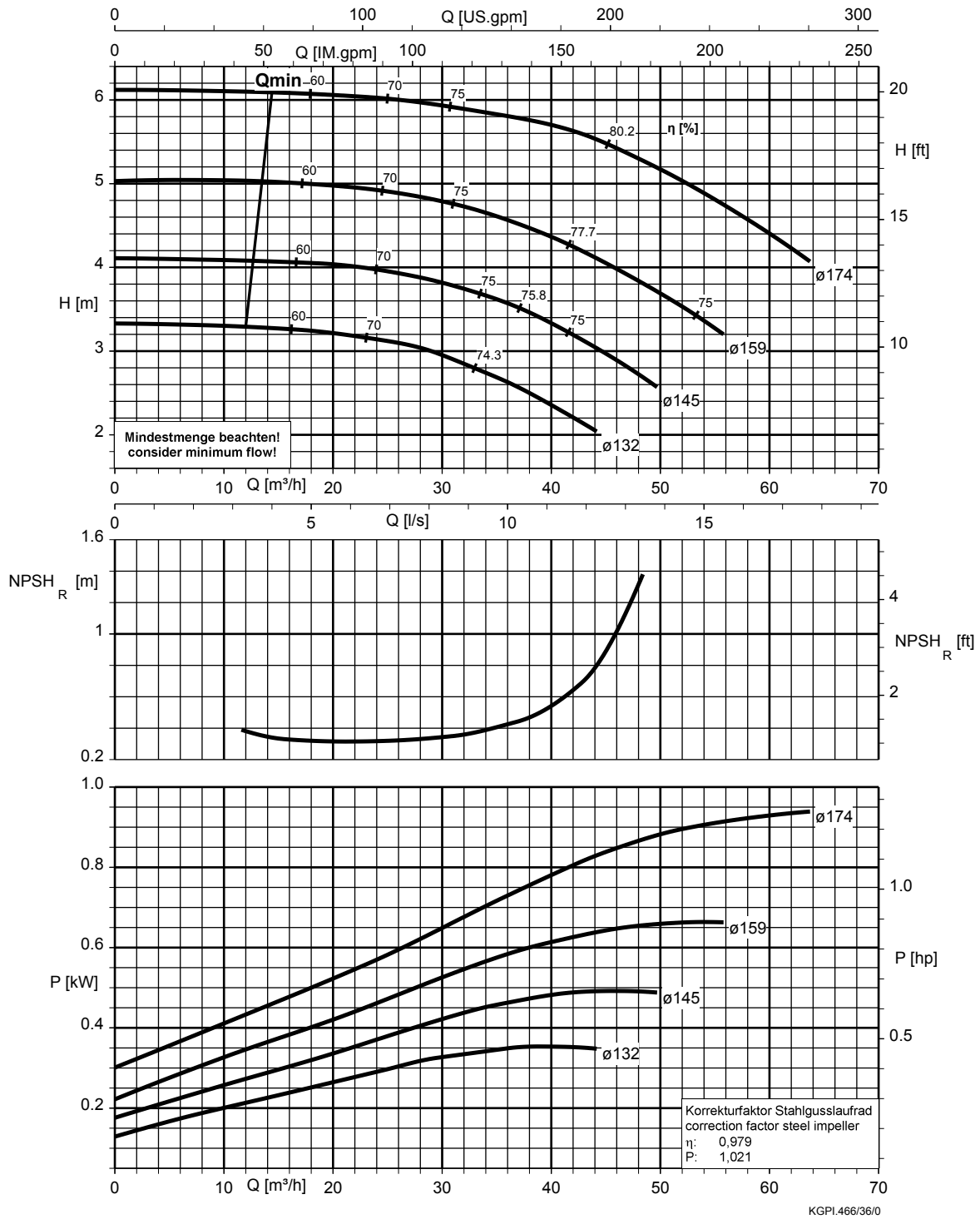


$n = 1160 \text{ min}^{-1}$

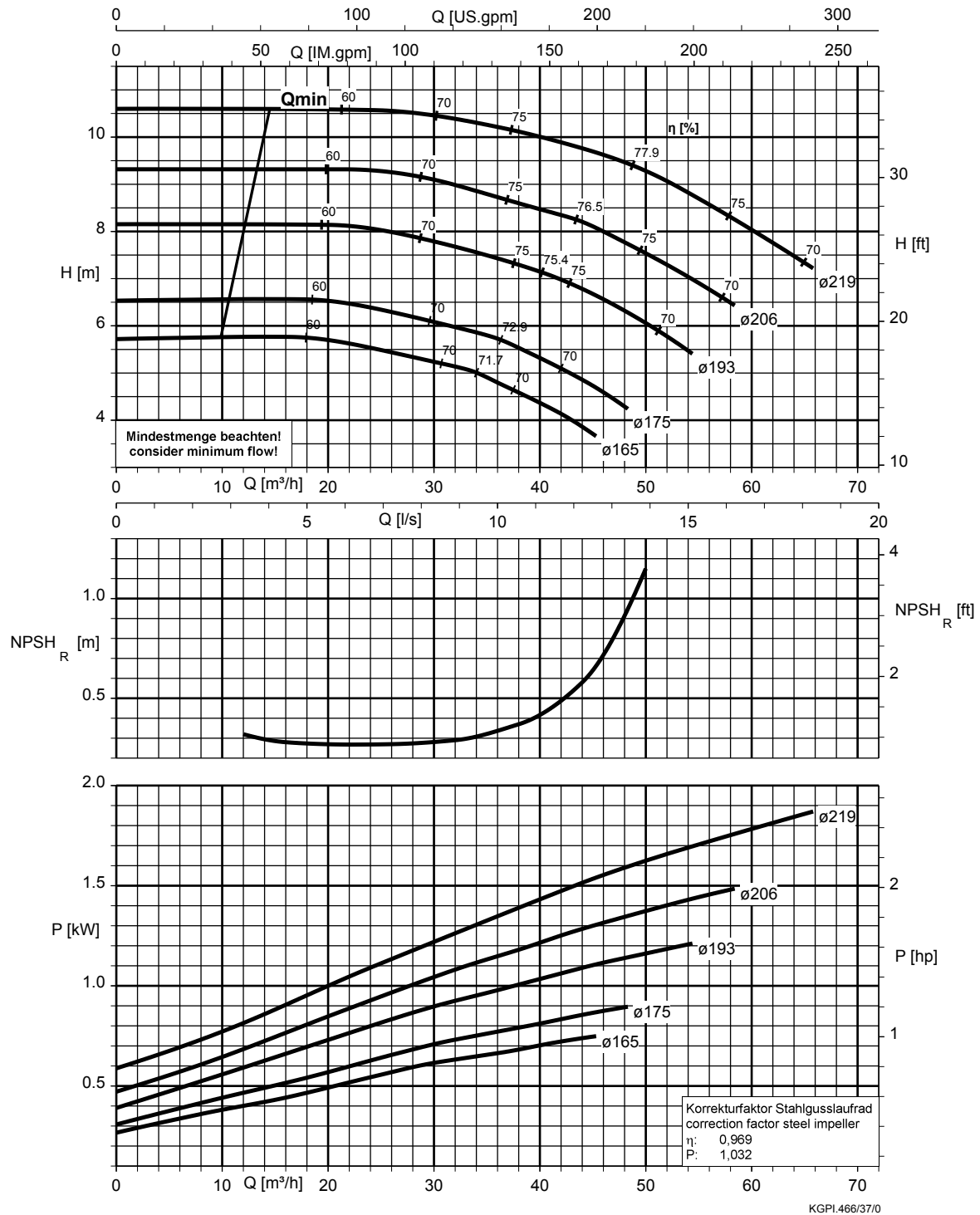
MegaCPK Inducer 100-065-125, $n = 1160 \text{ min}^{-1}$



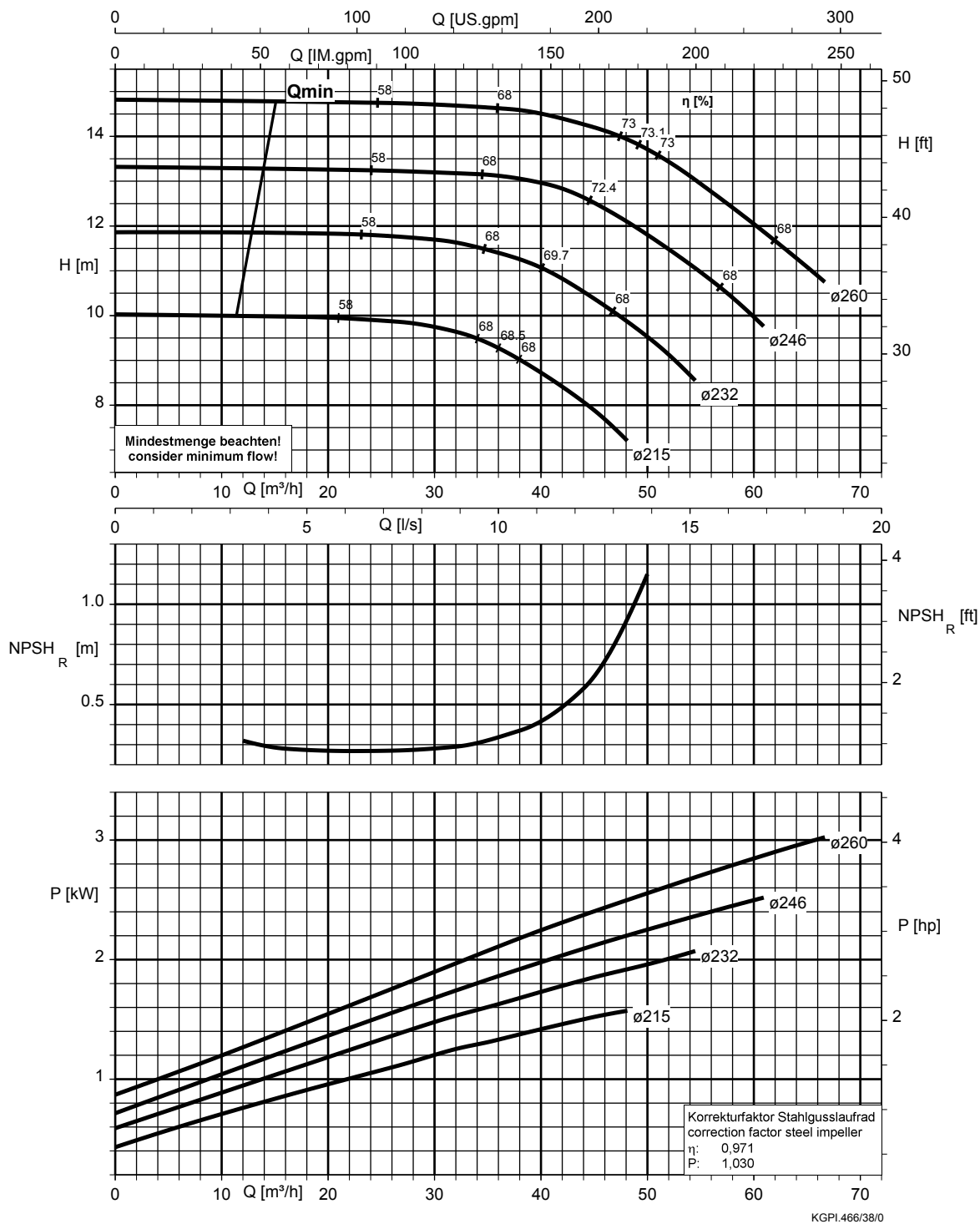
MegaCPK Inducer 100-065-160, $n = 1160 \text{ min}^{-1}$



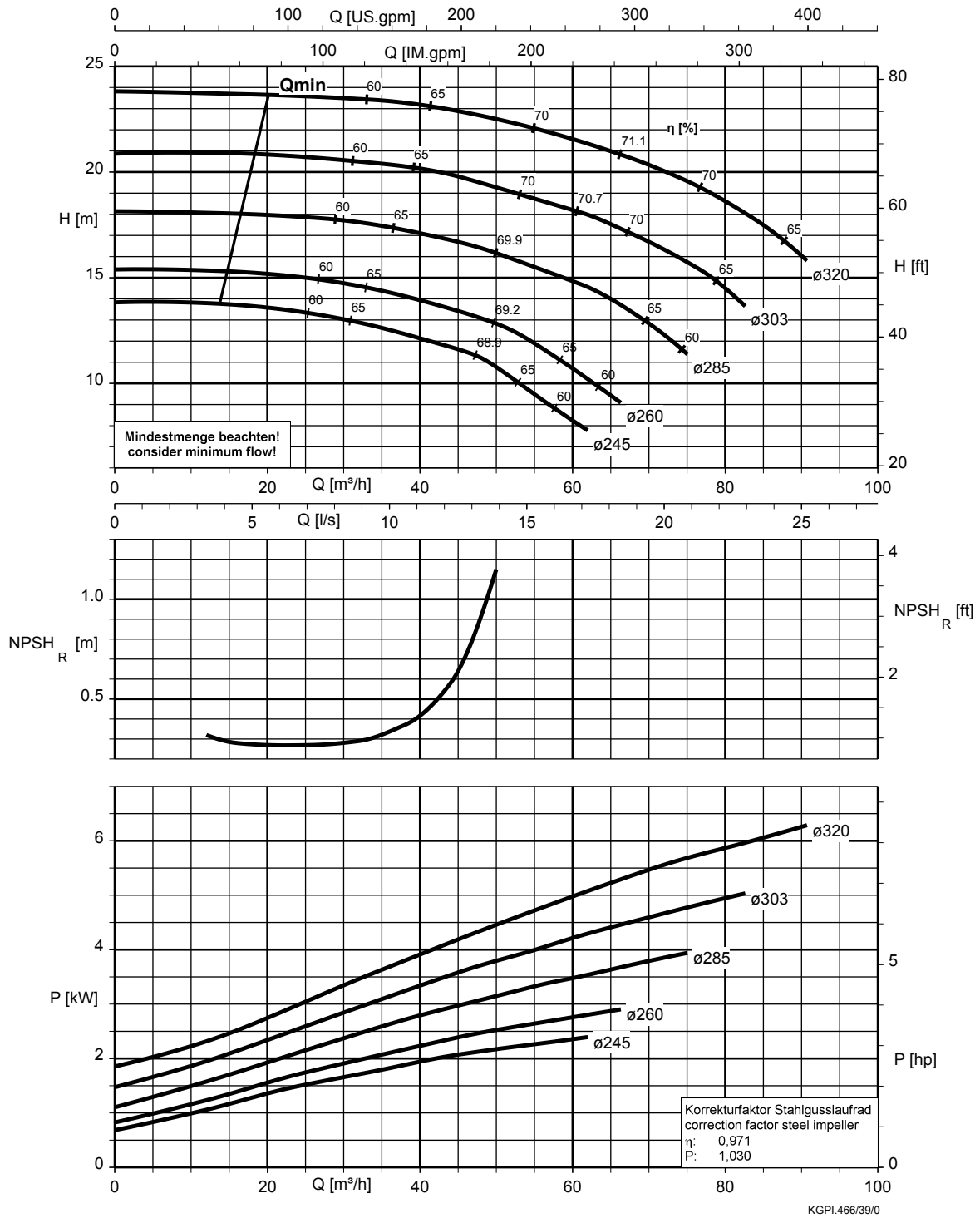
MegaCPK Inducer 100-065-200, $n = 1160 \text{ min}^{-1}$



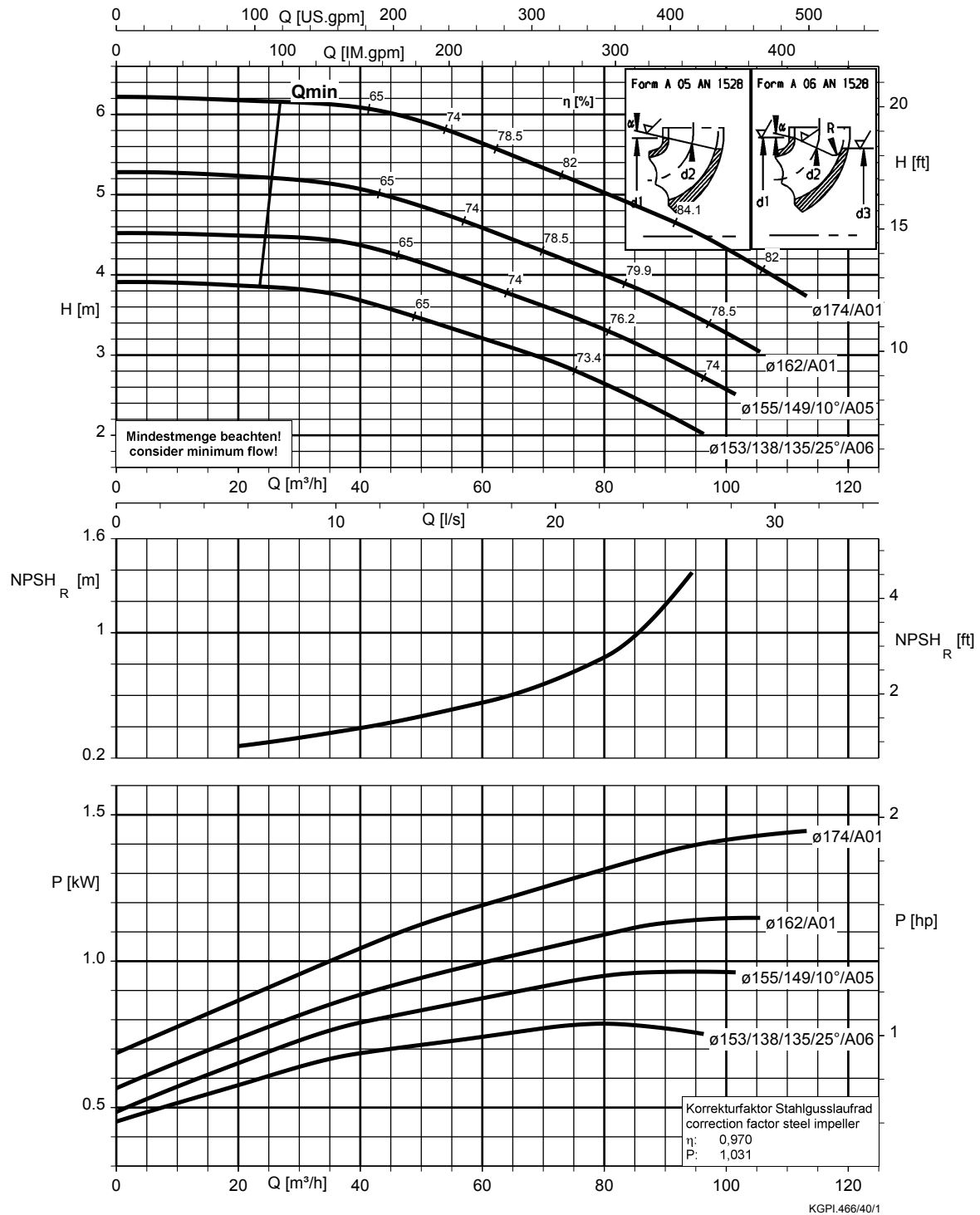
MegaCPK Inducer 100-065-250, $n = 1160 \text{ min}^{-1}$



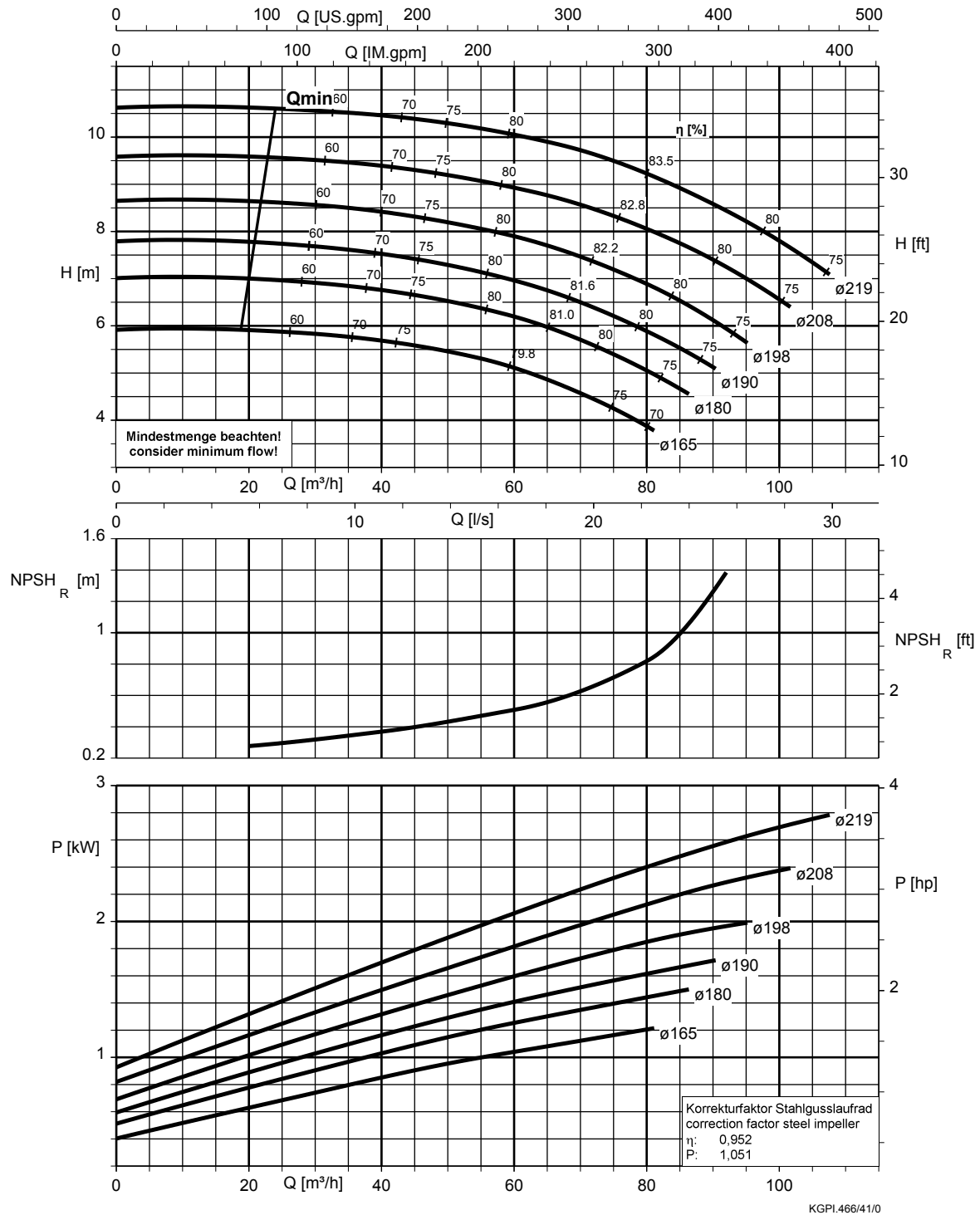
MegaCPK Inducer 100-065-315, $n = 1160 \text{ min}^{-1}$



MegaCPK Inducer 125-080-160, $n = 1160 \text{ min}^{-1}$



MegaCPK Inducer 125-080-200, $n = 1160 \text{ min}^{-1}$

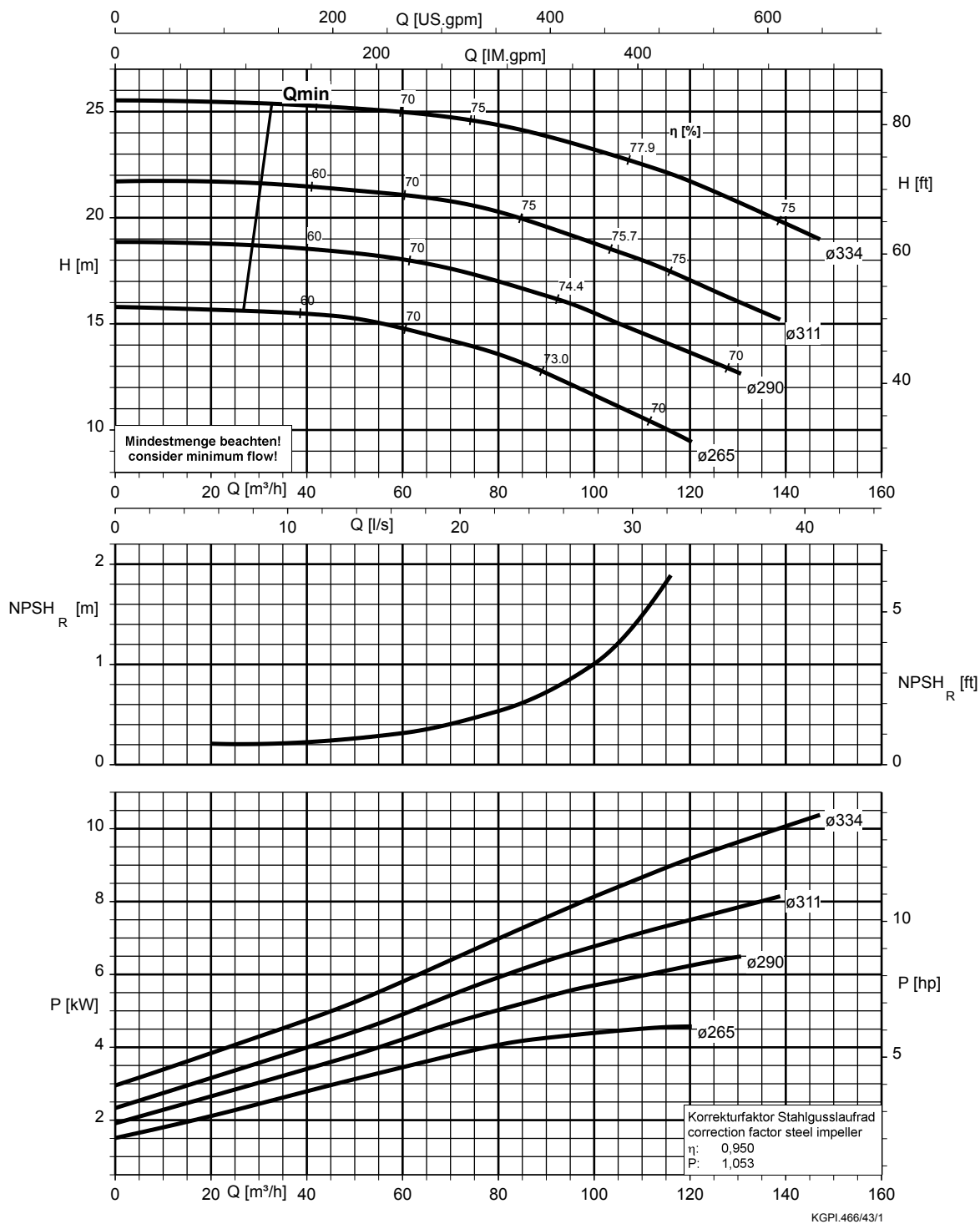


The top graph shows the total head (H) in meters and feet versus flow rate (Q) in various units. The head decreases as flow increases. Efficiency curves (η [%]) are also shown, with values ranging from 60% to 79.5%. A minimum flow rate is indicated by a vertical line at Q ≈ 25 m³/h, with a note: "Mindestmenge beachten! consider minimum flow!".

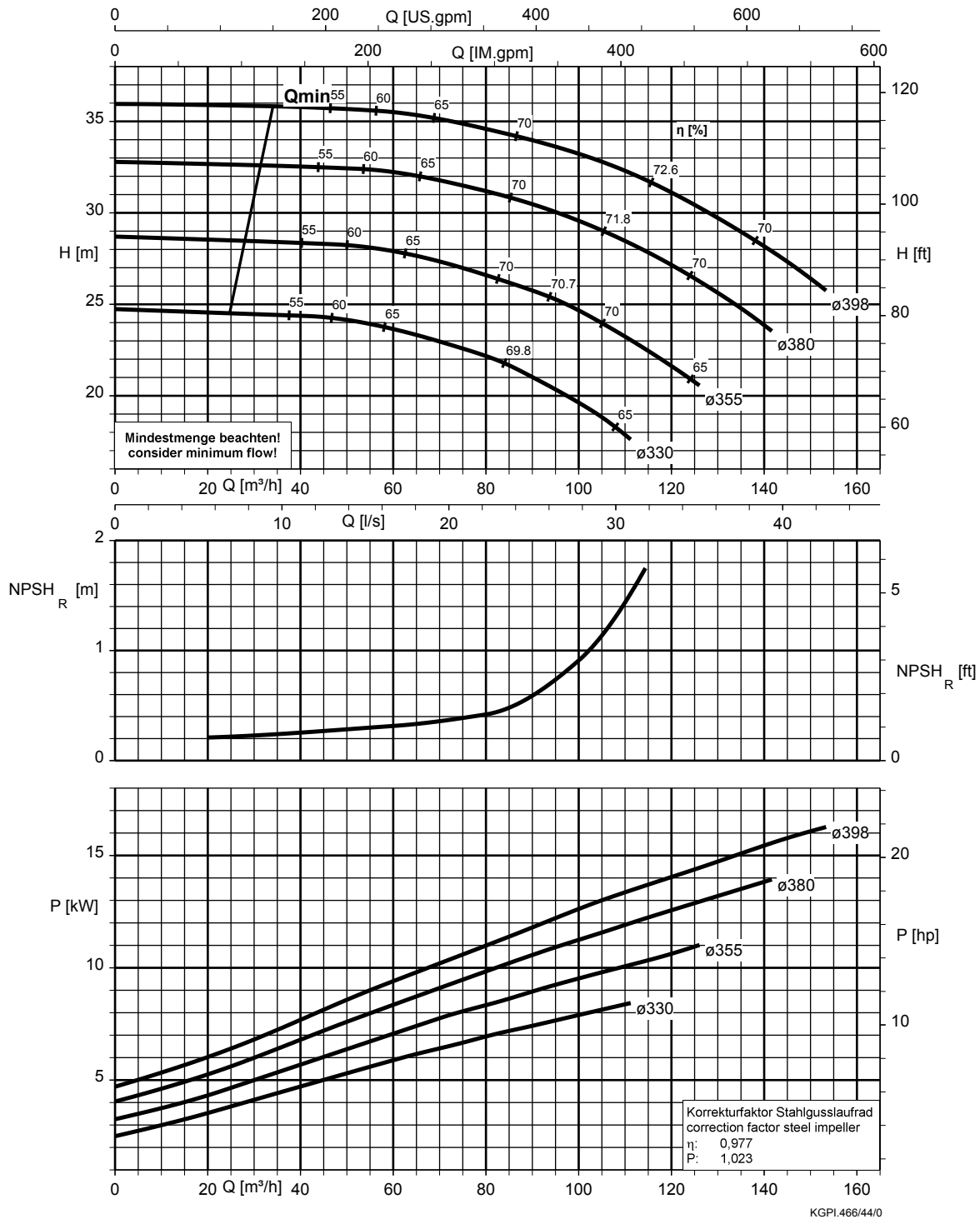
The middle graph shows the required head (NPSH_R) in meters and feet versus flow rate (Q) in m³/h. The required head increases with flow rate, starting from approximately 0.2 m at 20 m³/h and reaching about 2.2 m at 100 m³/h.

The bottom graph shows the power (P) in kW and hp versus flow rate (Q) in m³/h. The power increases linearly with flow rate. The graph includes a correction factor for steel impeller (Korrekturfaktor Stahlgusslaufrad) with values η: 0.958 and P: 1.044.

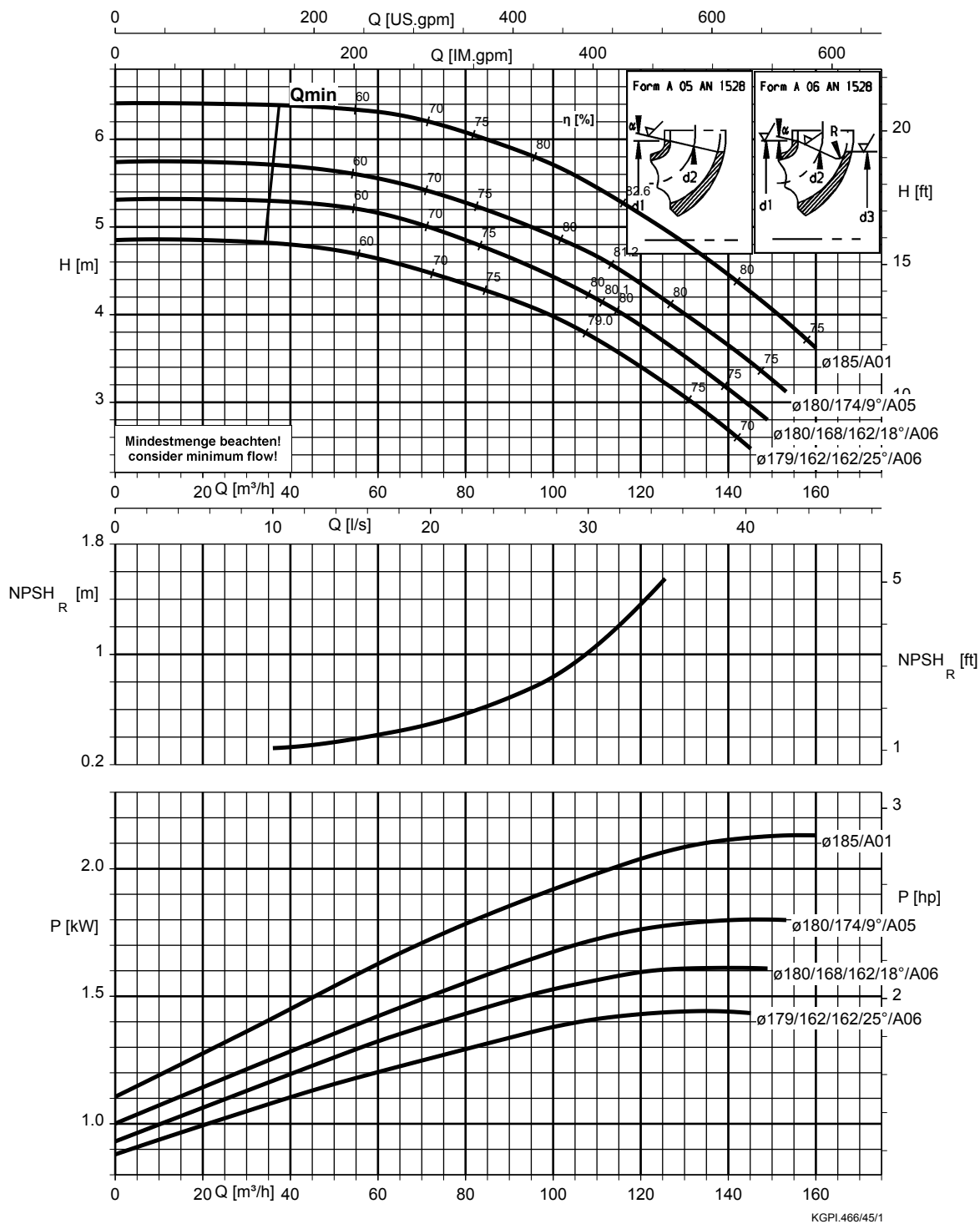
MegaCPK Inducer 125-080-315, $n = 1160 \text{ min}^{-1}$



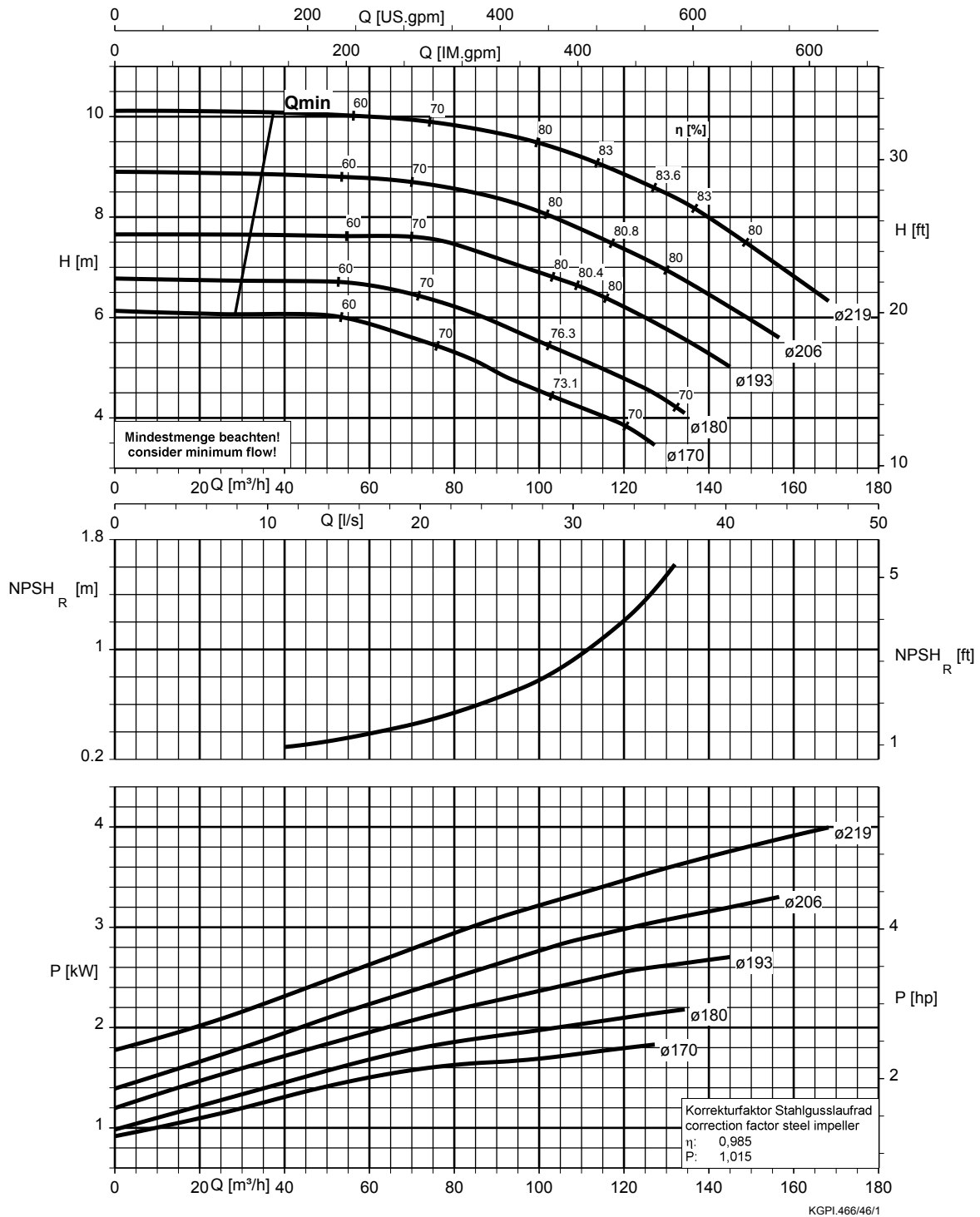
MegaCPK Inducer 125-080-400, $n = 1160 \text{ min}^{-1}$



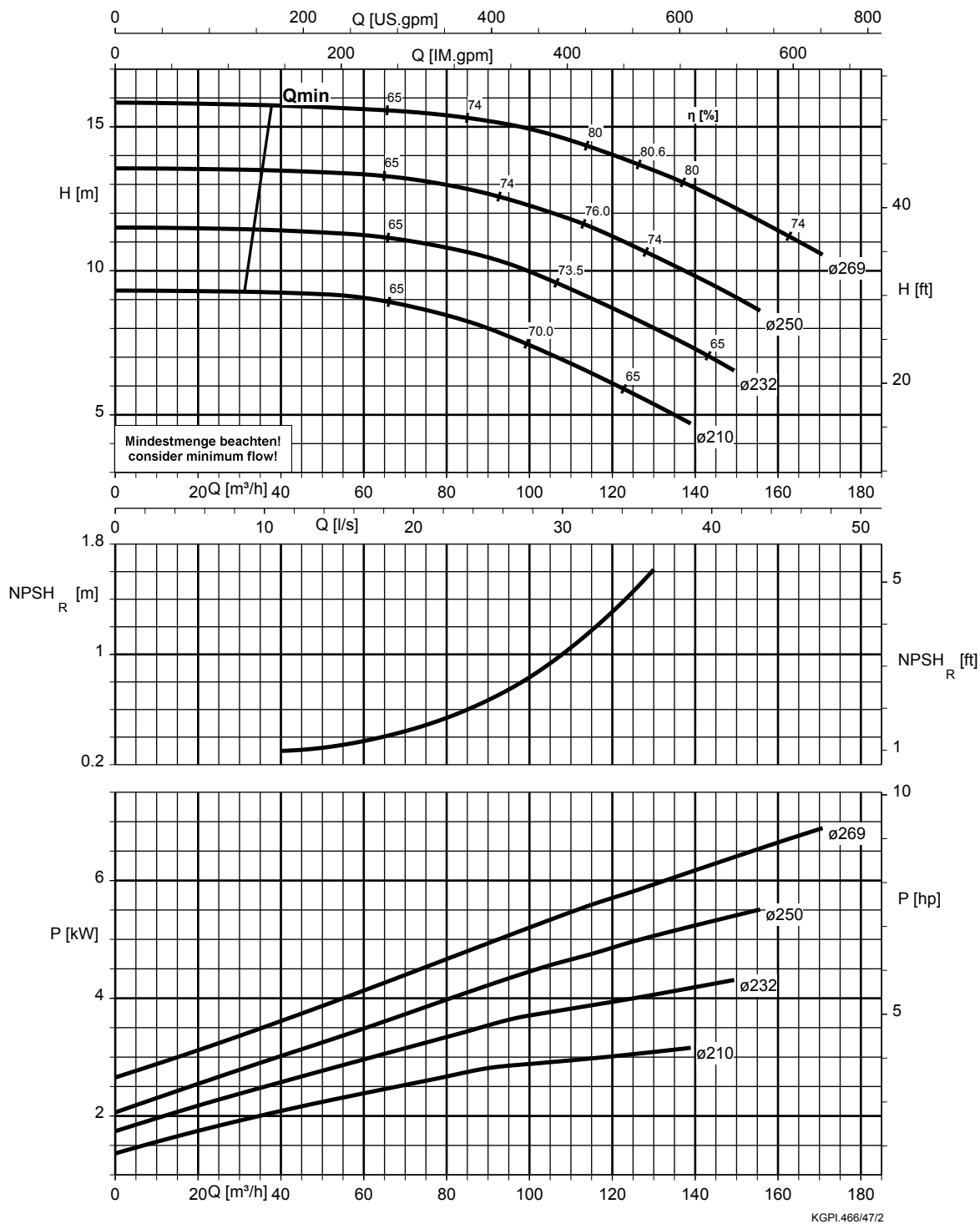
MegaCPK Inducer 125-100-160, $n = 1160 \text{ min}^{-1}$



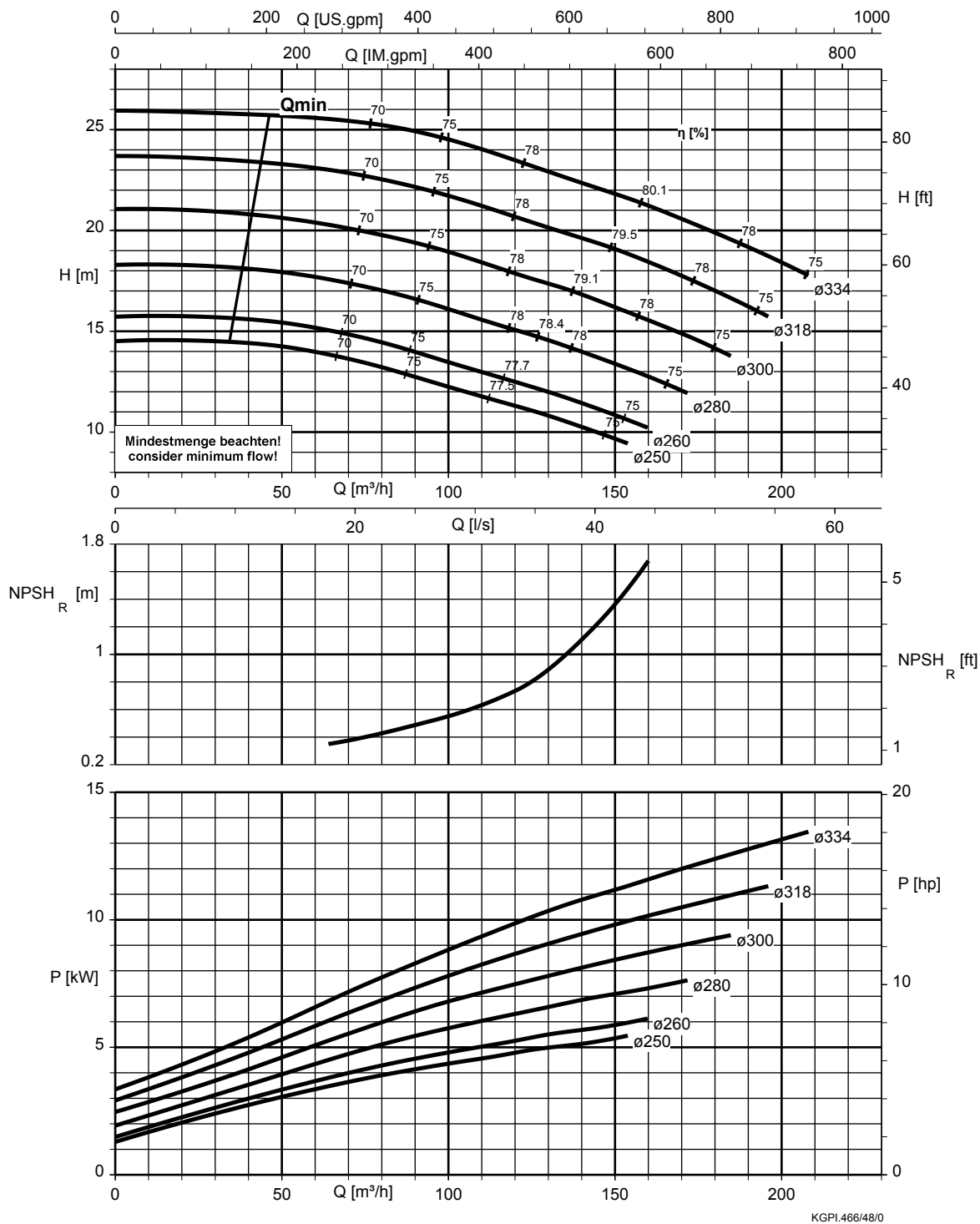
MegaCPK Inducer 125-100-200, $n = 1160 \text{ min}^{-1}$



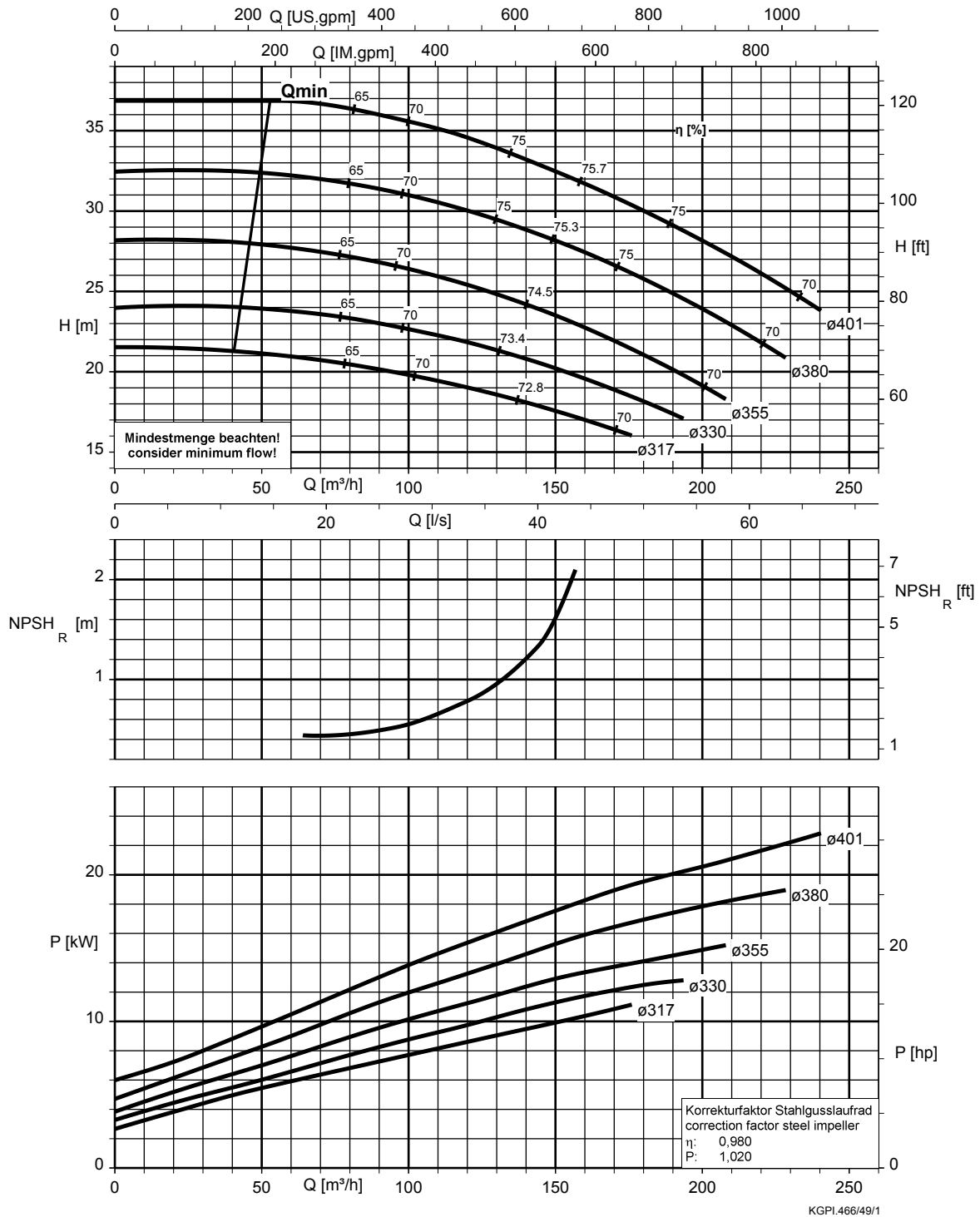
MegaCPK Inducer 125-100-250, $n = 1160 \text{ min}^{-1}$



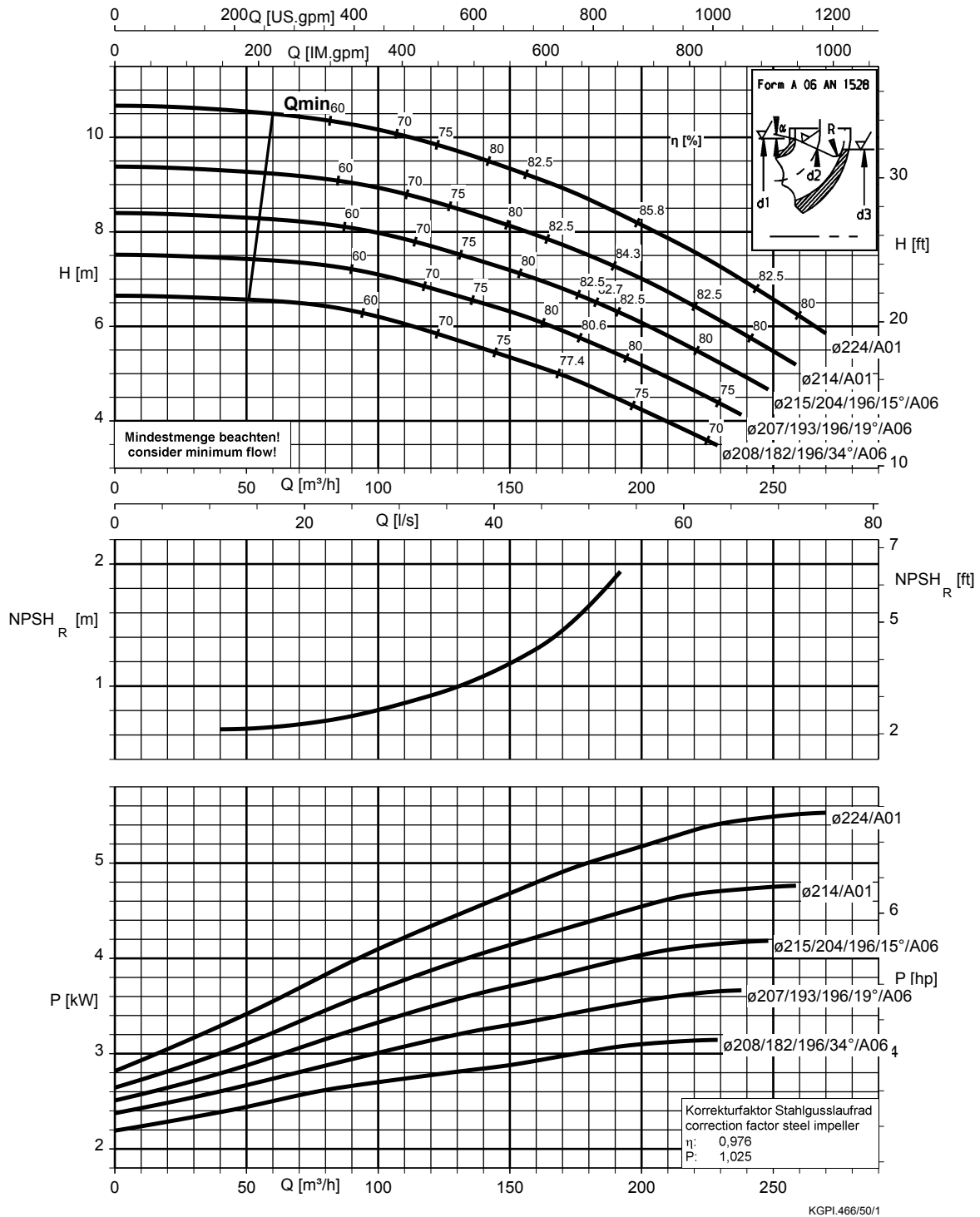
MegaCPK Inducer 125-100-315, $n = 1160 \text{ min}^{-1}$



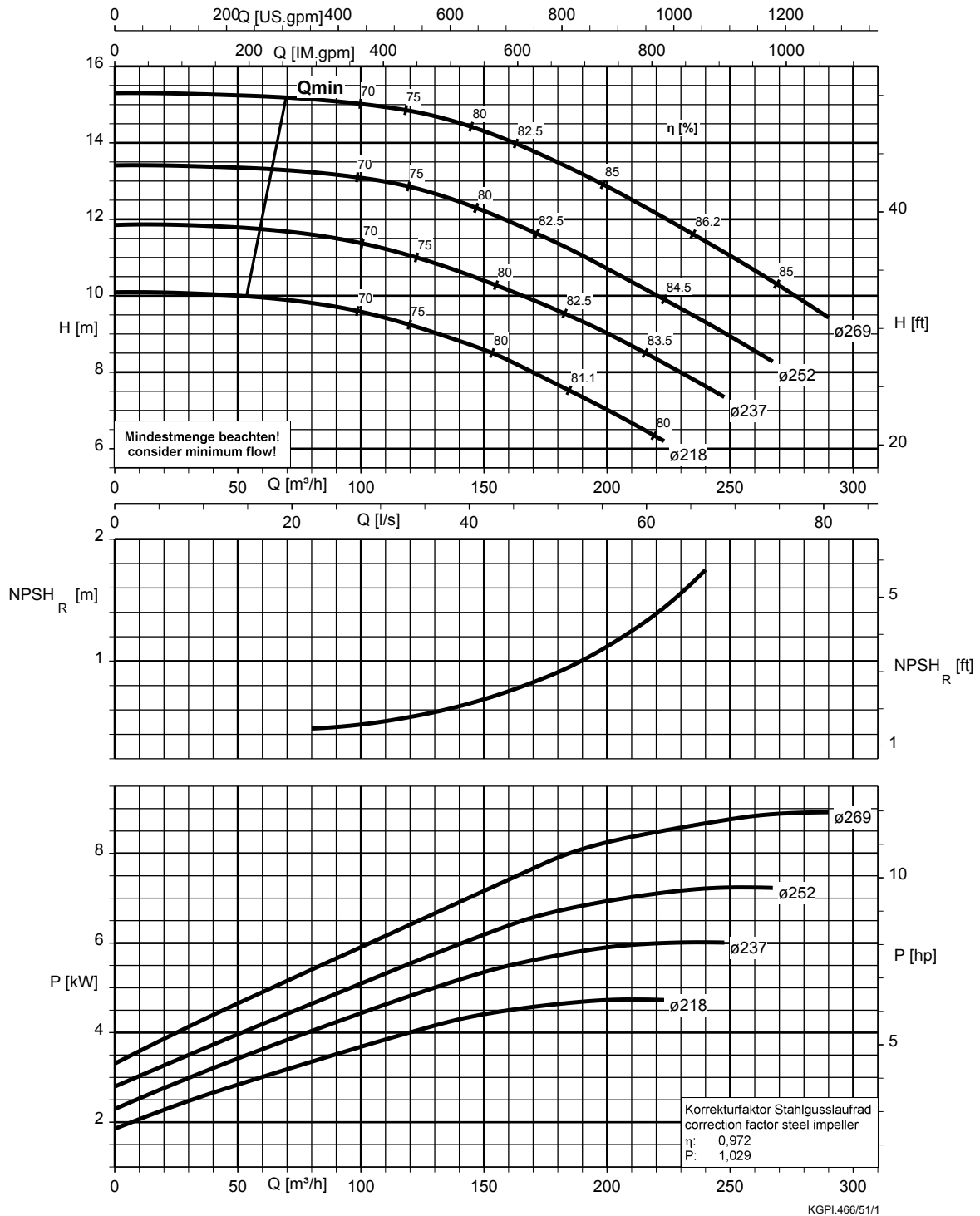
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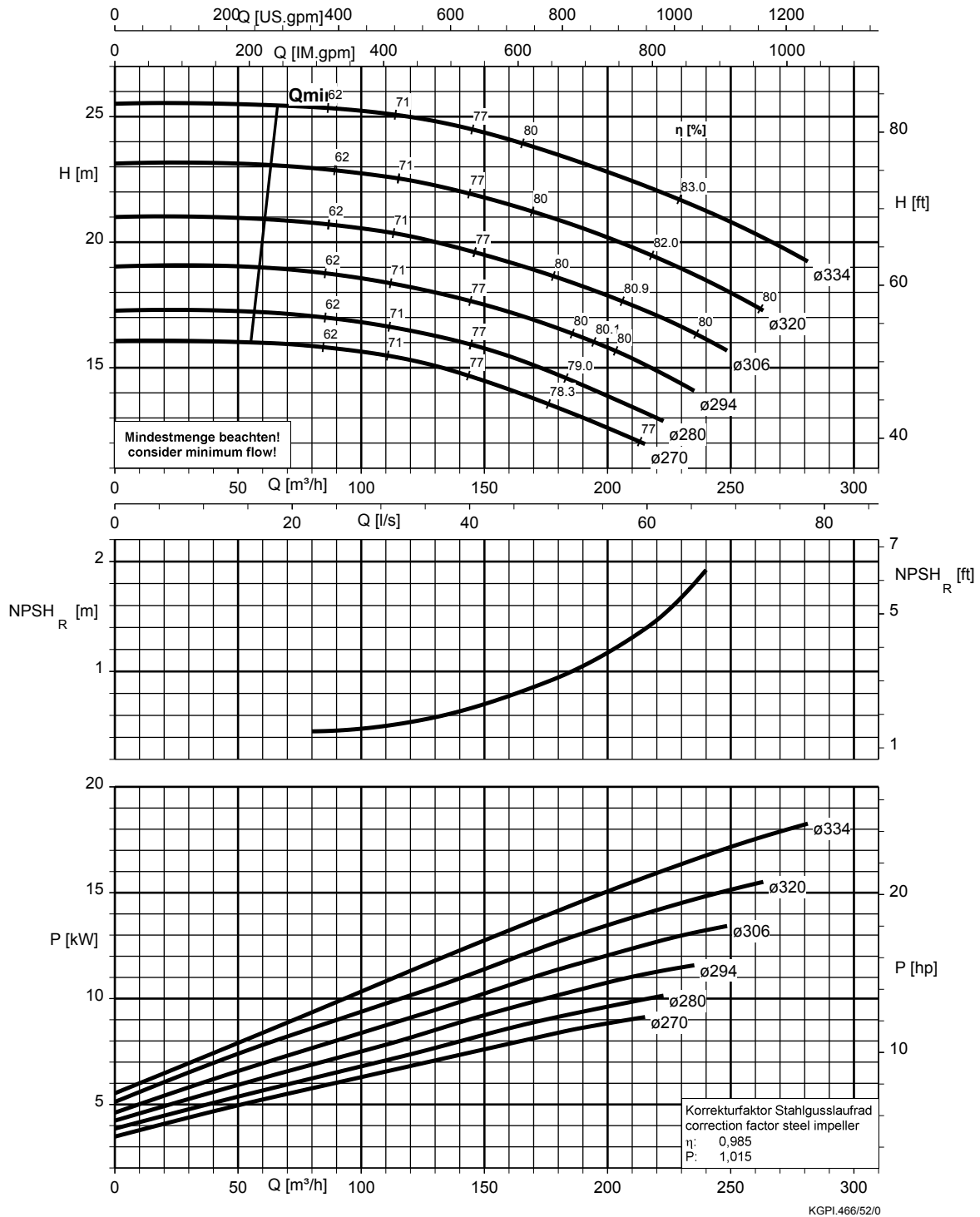
MegaCPK Inducer 150-125-200, $n = 1160 \text{ min}^{-1}$



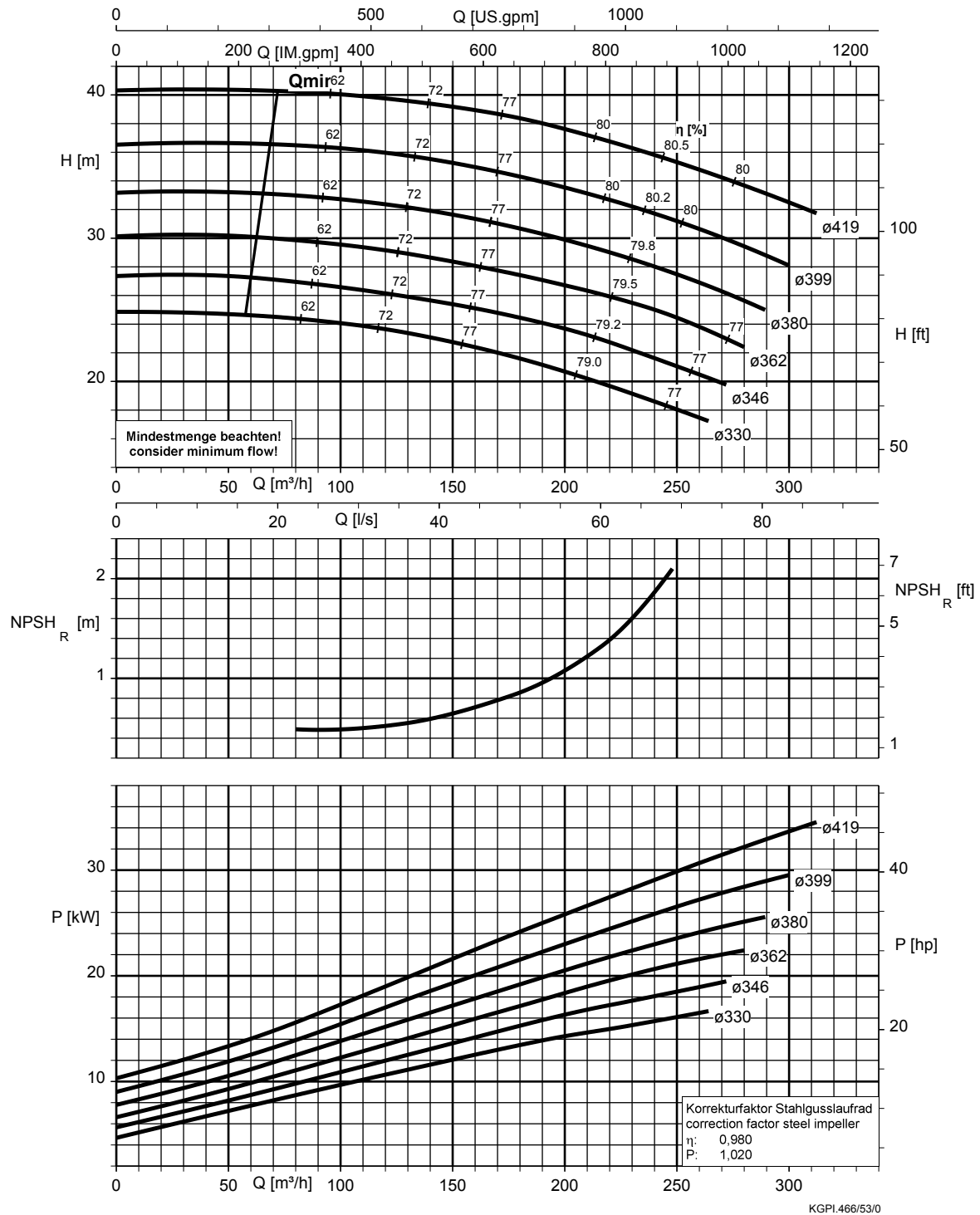
MegaCPK Inducer 150-125-250, $n = 1160 \text{ min}^{-1}$



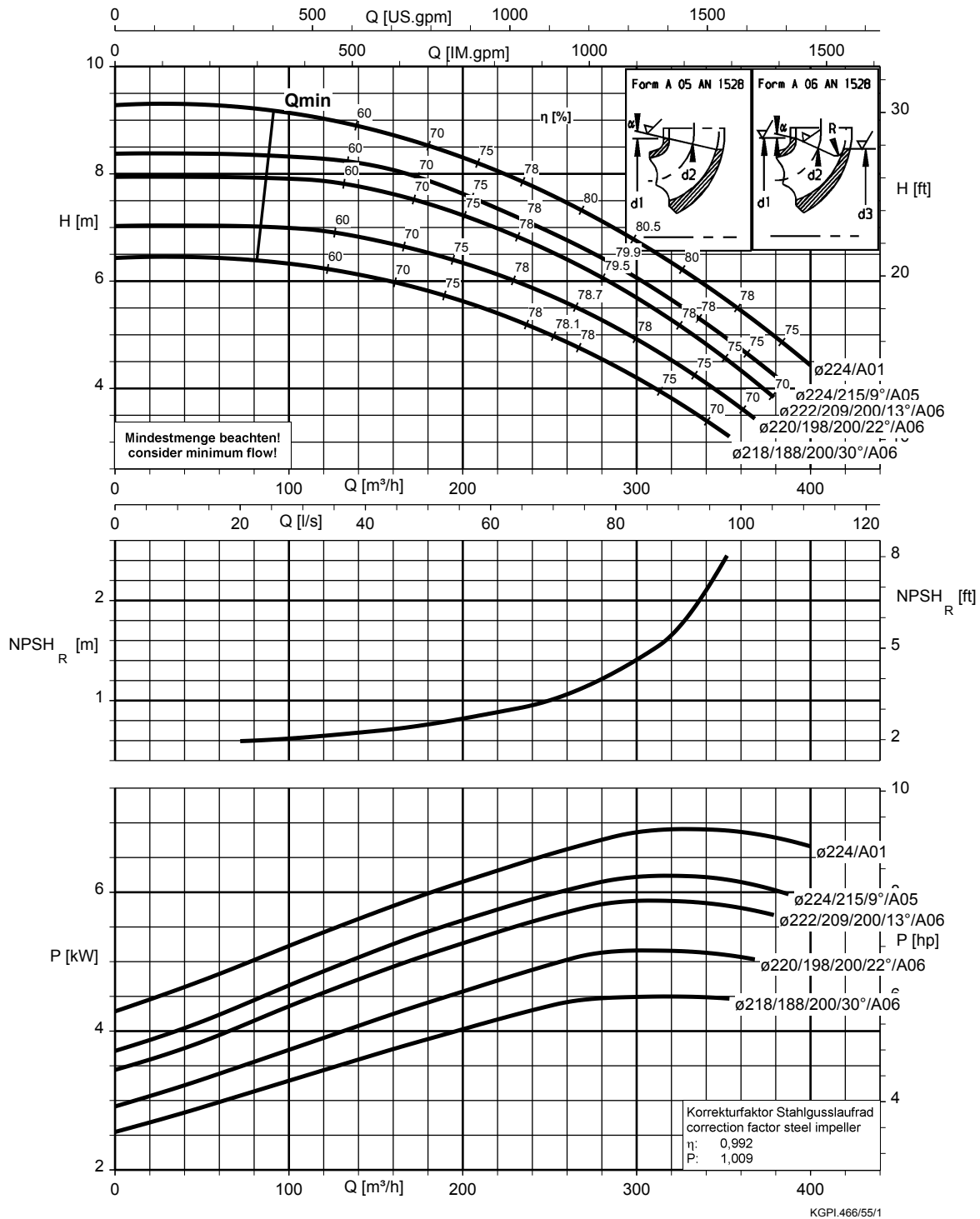
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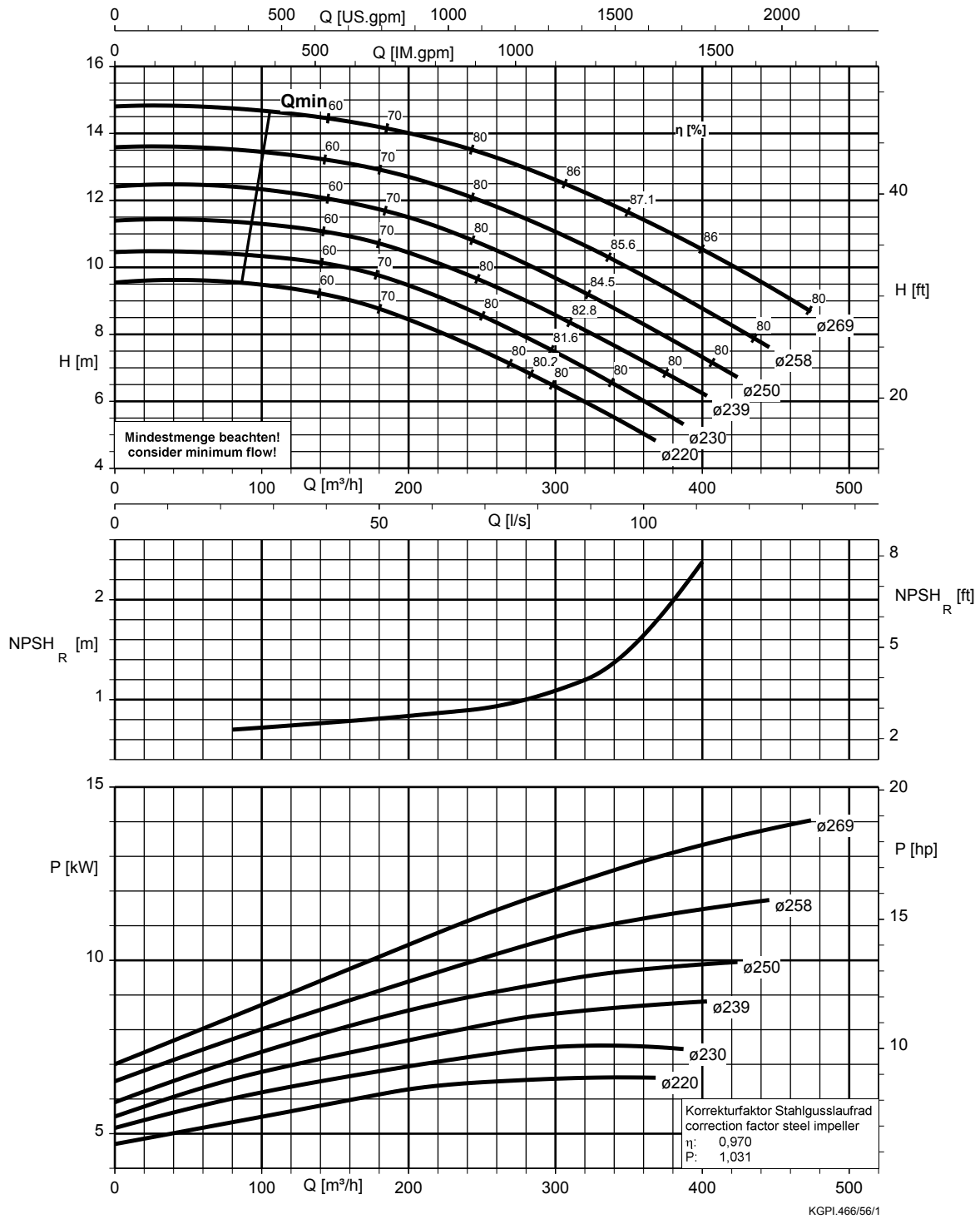
MegaCPK Inducer 150-125-400, $n = 1160 \text{ min}^{-1}$



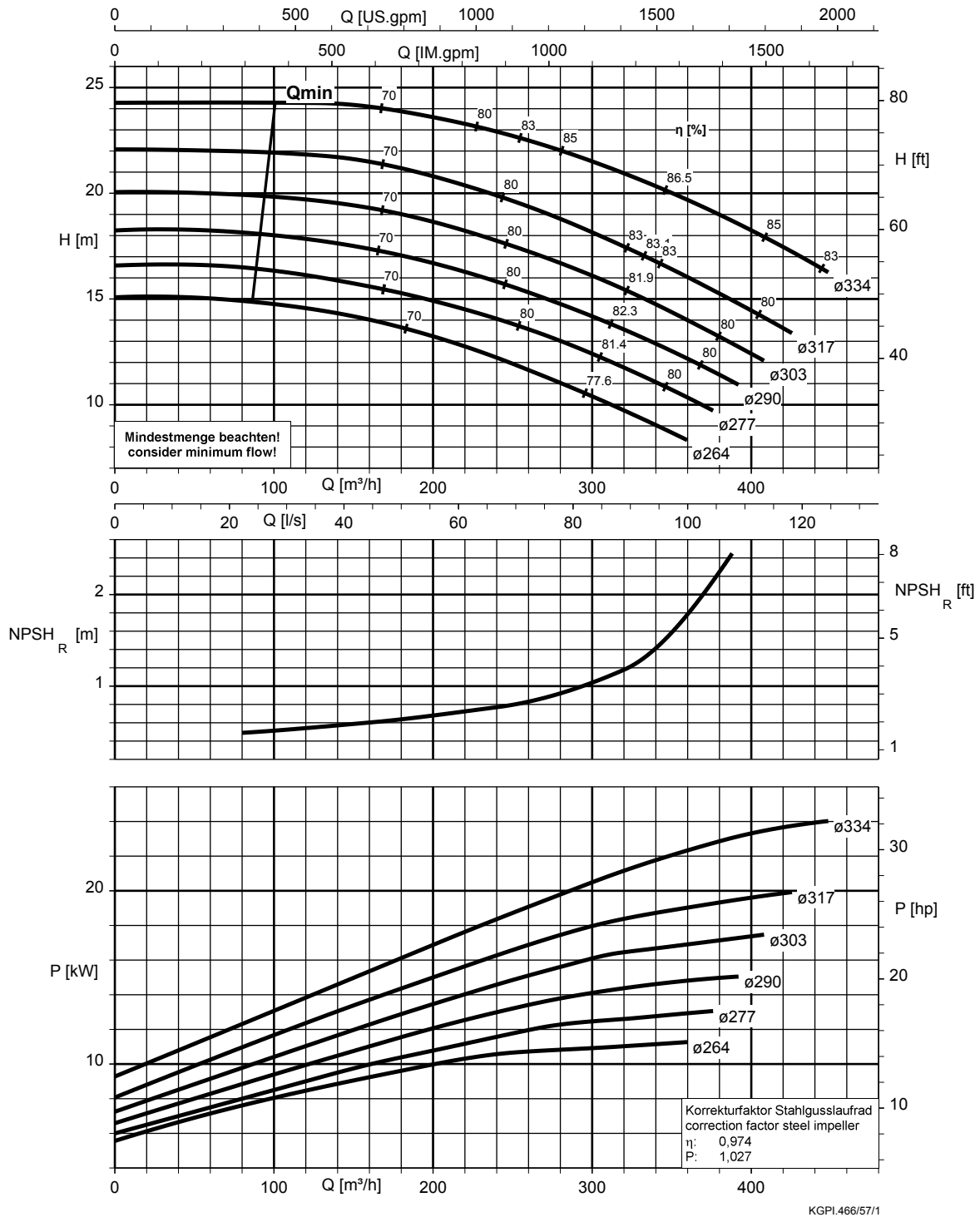
MegaCPK Inducer 200-150-200, $n = 1160 \text{ min}^{-1}$



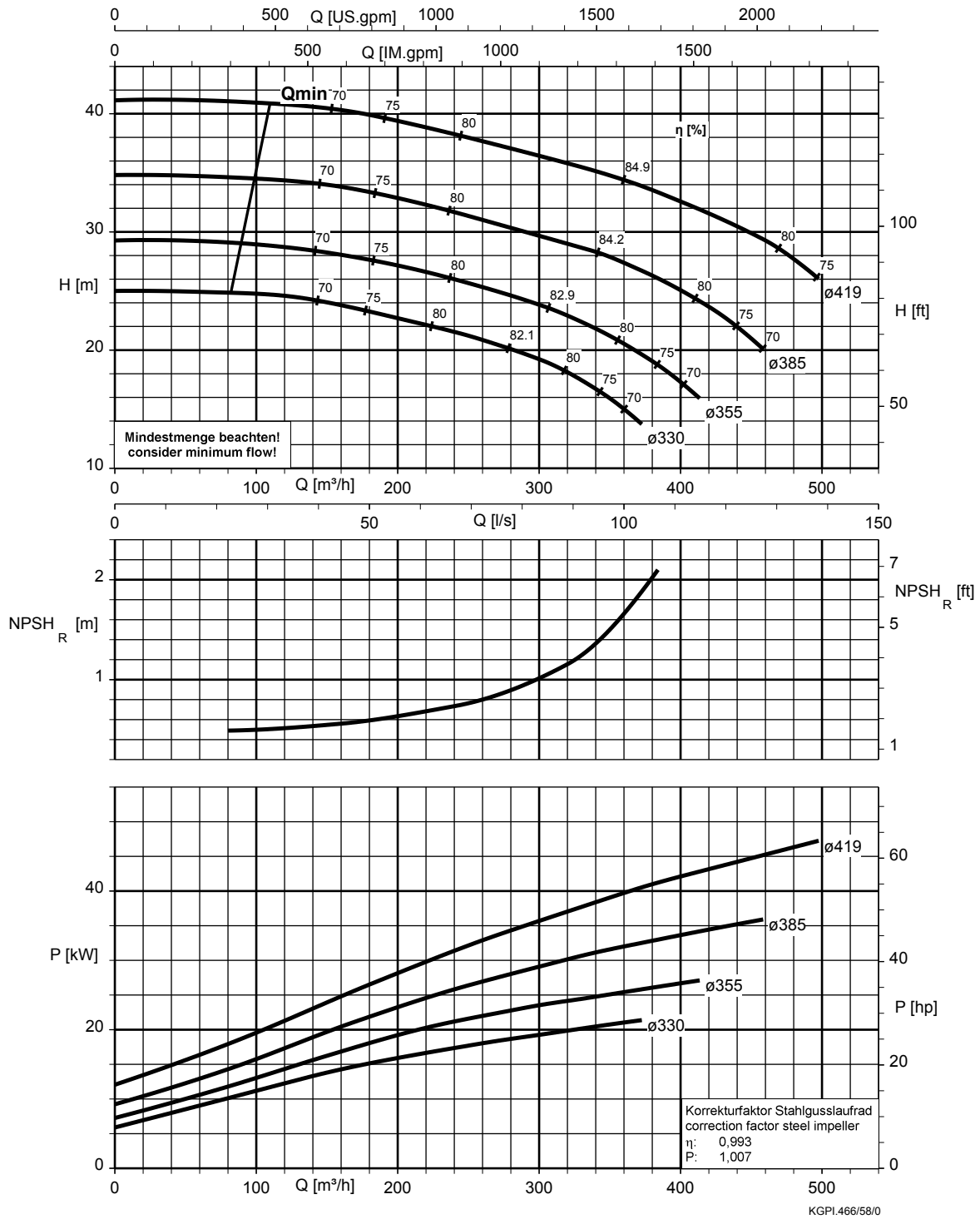
MegaCPK Inducer 200-150-250, $n = 1160 \text{ min}^{-1}$



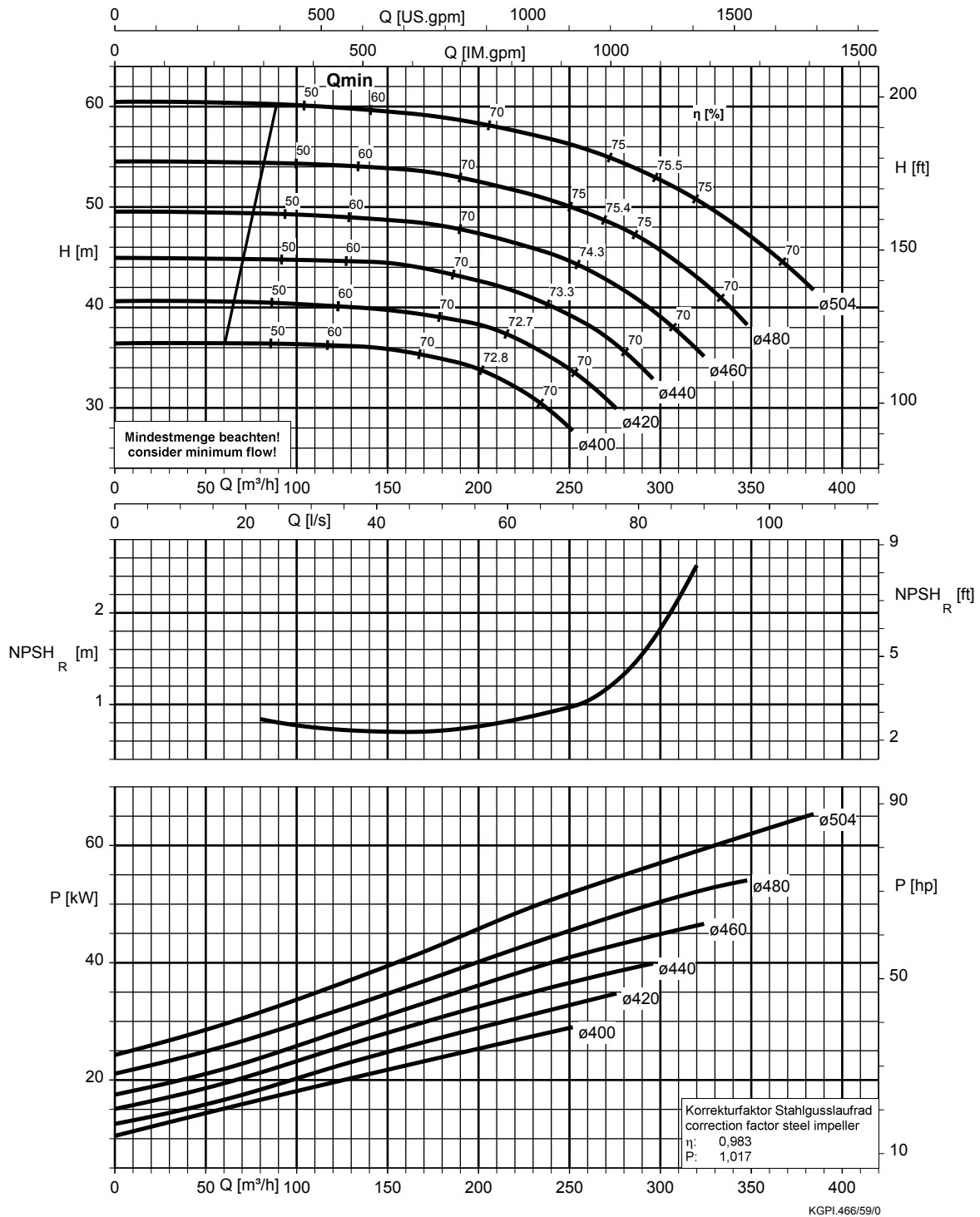
MegaCPK Inducer 200-150-315, $n = 1160 \text{ min}^{-1}$



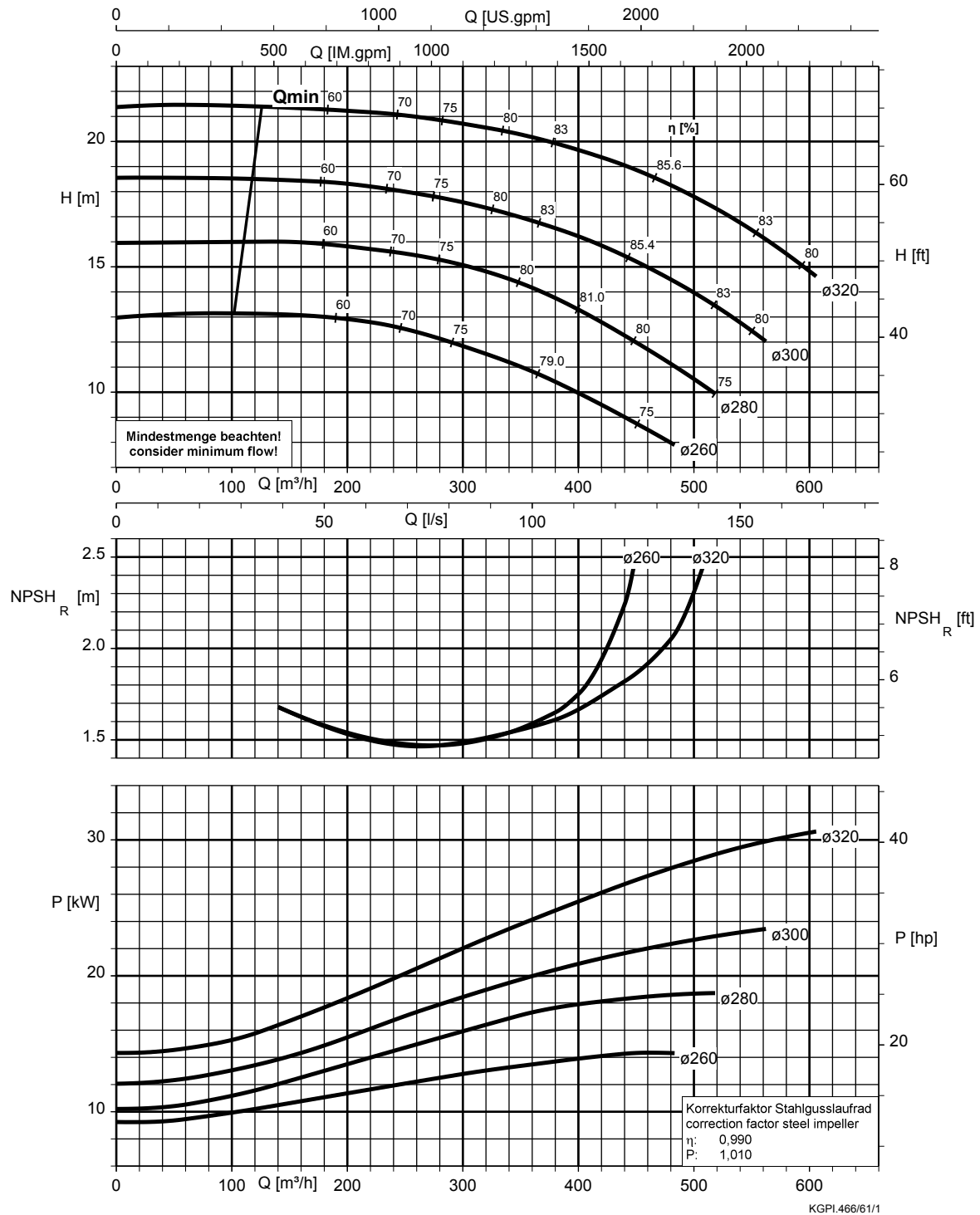
MegaCPK Inducer 200-150-400, $n = 1160 \text{ min}^{-1}$



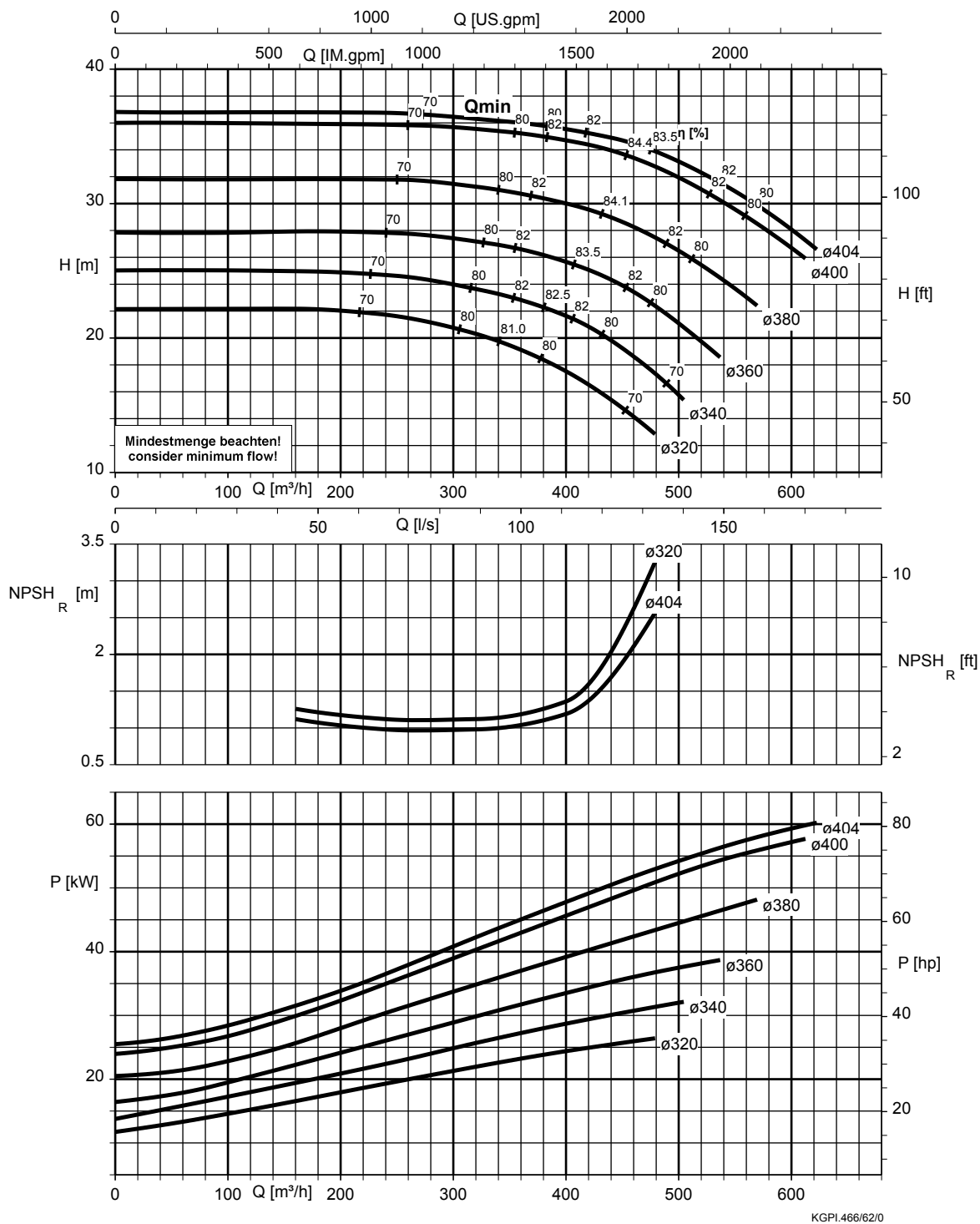
MegaCPK Inducer 200-150-500, $n = 1160 \text{ min}^{-1}$



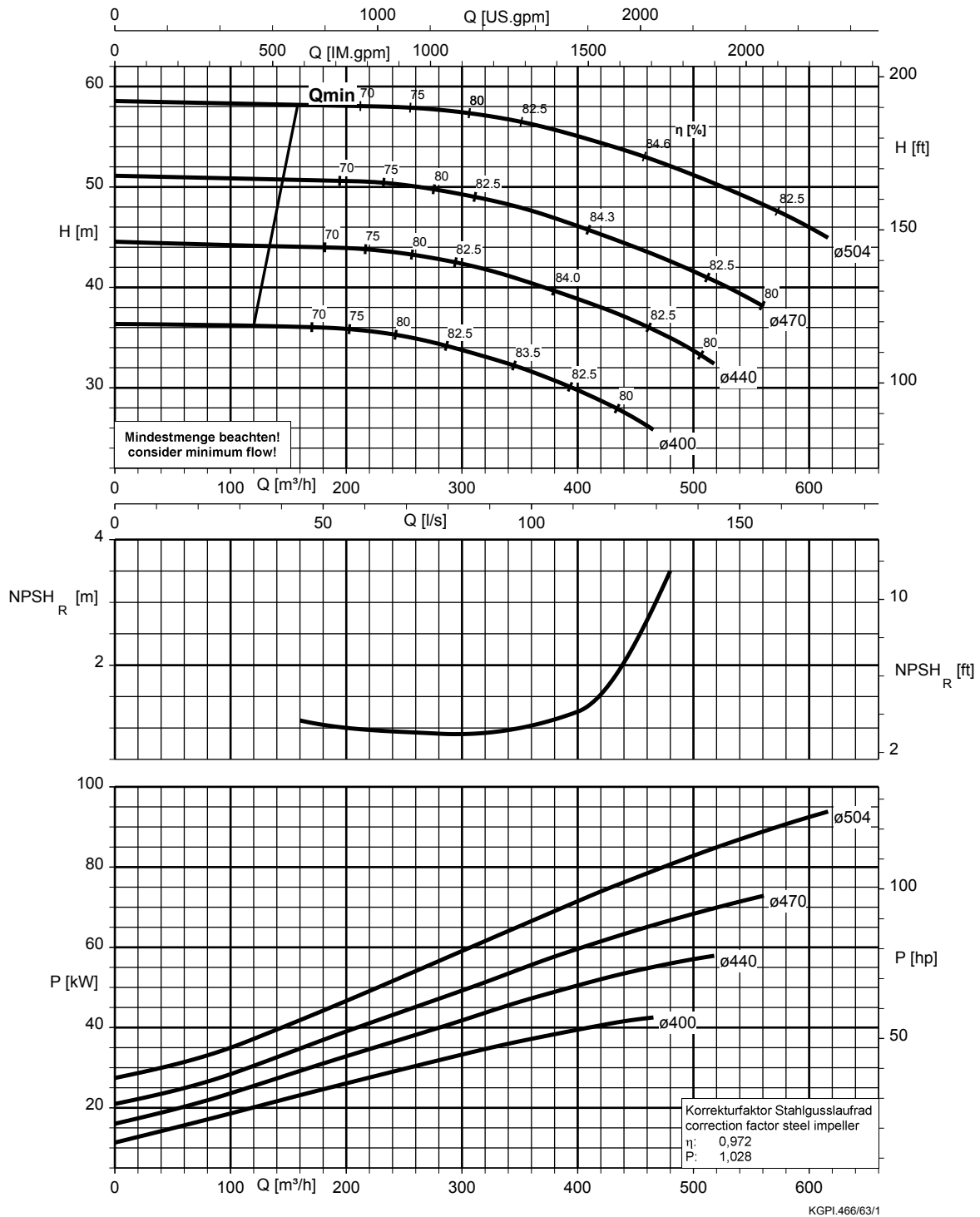
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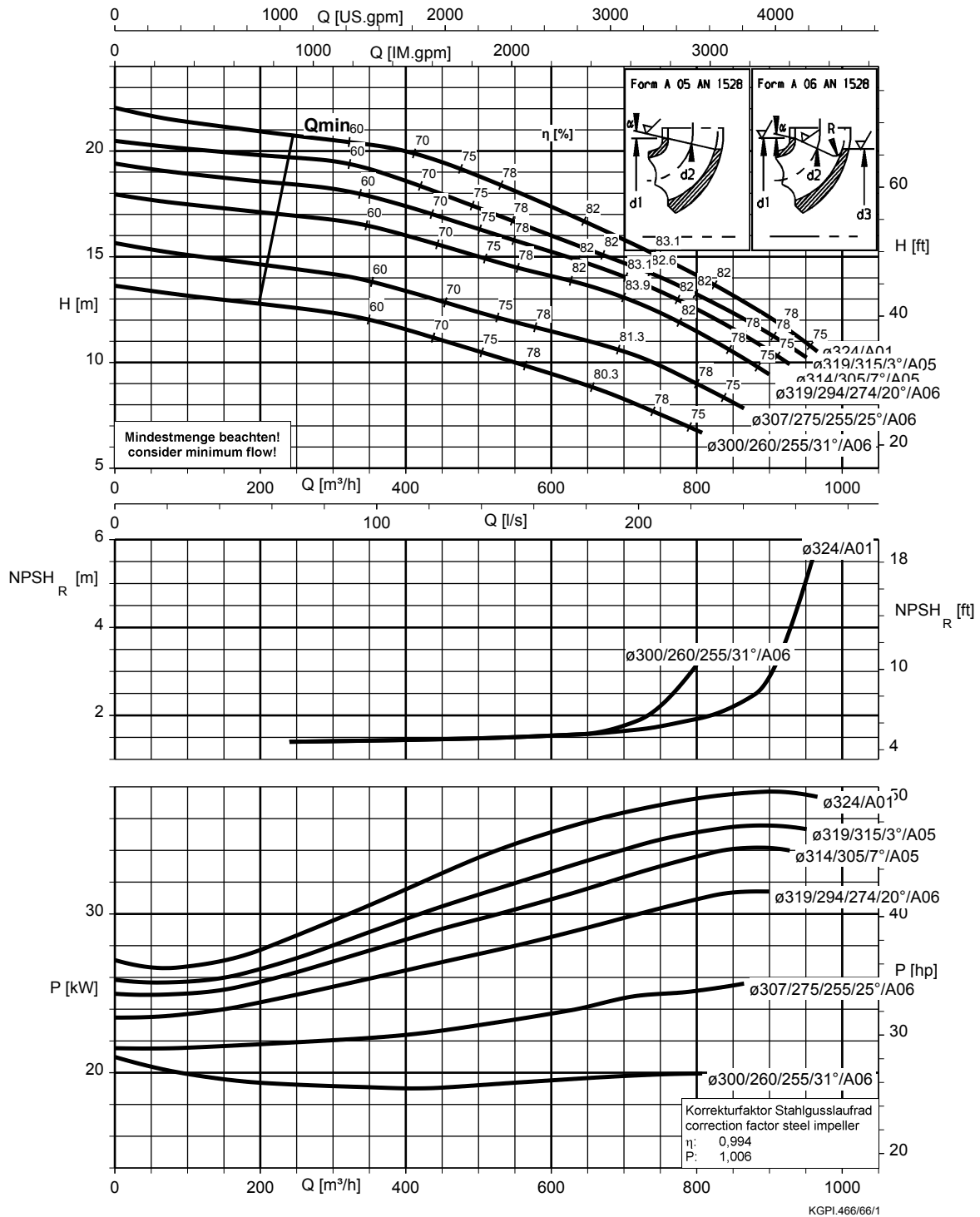
MegaCPK Inducer 250-200-400, $n = 1160 \text{ min}^{-1}$



MegaCPK Inducer 250-200-500, $n = 1160 \text{ min}^{-1}$



MegaCPK Inducer 300-250-315, $n = 1160 \text{ min}^{-1}$





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