Pompe à eau normalisée / à huile thermique / à eau surchauffée

60 Hz

Etanorm, Etanorm SYT
Etanorm V
Etabloc, Etabloc SYT
Etanorm-RSY

Courbier

KSB

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Courbier 60 Hz

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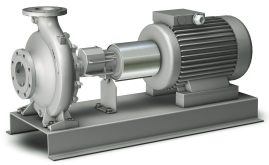
Pompes centrifuges avec garniture d'étanchéité d'arbre

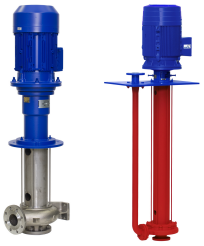
Pompe à eau normalisée / à huile thermique / à eau surchauffée

Etanorm/ SYT/ V ; Etabloc/ SYT ; Etanorm-RSY

Etanorm

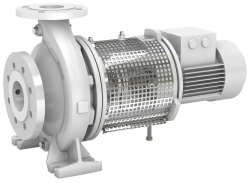


Etanorm SYT



Etanorm V

Etabloc



Etabloc SYT

Etanorm-RSY

Généralités

Classe de réception : courbes caractéristiques selon ISO 9906 Classe 3B

Valeurs NPSH
Les valeurs NPSH mesurées, indiquées sur les courbes caractéristiques correspondent à une chute de 3 % de la hauteur manométrique.

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

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

Perte de puissance par frottement
Pour certaines versions (paliers renforcés, certaines garnitures d'étanchéité d'arbre), il convient de tenir compte des pertes de puissance par frottement et de les indiquer dans la fiche de spécifications en tant que puissance supplémentaire.

Facteurs de correction
Les courbes caractéristiques sont valables pour les pompes équipées de roues en fonte ou en bronze.

- **Etanorm/SYT ; Etabloc/SYT**
  Si la roue est en acier moulé, le rendement et la puissance des tailles concernées doivent être corrigés avec les facteurs de correction indiqués sur les courbes caractéristiques.
- **Etanorm-RSY**
  Si la roue est en 1.4408, les taux de rendement indiqués sur les courbes caractéristiques doivent être baissés de 2 points de pourcentage.

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Récapitulatif des tailles

Tableau 1: Synoptique des tailles

Taille	Gamme						Vitesse de rotation [t/min]		
	Etanorm	Etanorm SYT	Etanorm V	Etabloc	Etabloc SYT	Etanorm-RSY	3500	1750	1160
040-025-160	✘	✘	-	✘	✘	-	(⇨ page 22)	(⇨ page 51)	(⇨ page 123)
040-025-200	✘	✘	-	✘	✘	-	(⇨ page 23)	(⇨ page 52)	(⇨ page 124)
050-032-125.1	✘	✘	✘	✘	✘	-	(⇨ page 24)	(⇨ page 53)	(⇨ page 125)
050-032-160.1	✘	✘	✘	✘	✘	-	(⇨ page 25)	(⇨ page 54)	(⇨ page 126)
050-032-200.1	✘	✘	✘	✘	✘	-	(⇨ page 26)	(⇨ page 55)	(⇨ page 127)
050-032-250.1	✘	-	✘	✘	-	-	(⇨ page 27)	(⇨ page 56)	(⇨ page 128)
050-032-125	✘	-	✘	✘	-	-	(⇨ page 28)	(⇨ page 57)	(⇨ page 129)
050-032-160	✘	✘	✘	✘	✘	-	(⇨ page 29)	(⇨ page 58)	(⇨ page 130)
050-032-200	✘	✘	✘	✘	✘	-	(⇨ page 30)	(⇨ page 59)	(⇨ page 131)
050-032-250	✘	✘	✘	✘	-	-	(⇨ page 31)	(⇨ page 60)	(⇨ page 132)
065-040-125	✘	-	✘	✘	-	-	(⇨ page 32)	(⇨ page 61)	(⇨ page 133)
065-040-160	✘	✘	✘	✘	✘	-	(⇨ page 33)	(⇨ page 62)	(⇨ page 134)
065-040-200	✘	✘	✘	✘	✘	-	(⇨ page 34)	(⇨ page 63)	(⇨ page 135)
065-040-250	✘	✘	✘	✘	-	-	(⇨ page 35)	(⇨ page 64)	(⇨ page 136)
065-040-315	✘	✘	✘	✘	-	-	-	(⇨ page 65)	(⇨ page 137)
065-050-125	✘	-	✘	✘	-	-	(⇨ page 36)	(⇨ page 66)	(⇨ page 138)
065-050-160	✘	✘	✘	✘	✘	-	(⇨ page 37)	(⇨ page 67)	(⇨ page 139)
065-050-200	✘	✘	✘	✘	✘	-	(⇨ page 38)	(⇨ page 68)	(⇨ page 140)
065-050-250	✘	✘	✘	✘	-	-	(⇨ page 39)	(⇨ page 69)	(⇨ page 141)
065-050-315	✘	✘	✘	✘	-	-	-	(⇨ page 70)	(⇨ page 142)
080-065-125	✘	-	✘	✘	-	-	(⇨ page 40)	(⇨ page 71)	(⇨ page 143)
080-065-160	✘	✘	✘	✘	✘	-	(⇨ page 41)	(⇨ page 72)	(⇨ page 144)
080-065-200	✘	✘	✘	✘	✘	-	(⇨ page 42)	(⇨ page 73)	(⇨ page 145)
080-065-250	✘	✘	✘	✘	-	-	(⇨ page 43)	(⇨ page 74)	(⇨ page 146)
080-065-315	✘	✘	✘	✘	-	-	-	(⇨ page 75)	(⇨ page 147)
100-080-160	✘	✘	✘	✘	✘	-	(⇨ page 44)	(⇨ page 76)	(⇨ page 148)
100-080-200	✘	✘	✘	✘	-	-	(⇨ page 45)	(⇨ page 77)	(⇨ page 149)
100-080-250	✘	✘	✘	✘	-	-	(⇨ page 46)	(⇨ page 78)	(⇨ page 150)
100-080-315	✘	✘	✘	✘	-	-	-	(⇨ page 79)	(⇨ page 151)
100-080-400	✘	-	✘	✘	-	-	-	(⇨ page 80)	(⇨ page 152)
125-100-160	✘	✘	✘	✘	-	-	(⇨ page 47)	(⇨ page 81)	(⇨ page 153)
125-100-200	✘	✘	✘	✘	-	-	(⇨ page 48)	(⇨ page 82)	(⇨ page 154)
125-100-250	✘	✘	✘	✘	-	-	(⇨ page 49)	(⇨ page 83)	(⇨ page 155)
125-100-315	✘	✘	✘	✘	-	-	-	(⇨ page 84)	(⇨ page 156)
125-100-400	✘	-	✘	✘	-	-	-	(⇨ page 85)	(⇨ page 157)
150-125-200	✘	✘	✘	✘	-	-	(⇨ page 50)	(⇨ page 86)	(⇨ page 158)
150-125-250	✘	✘	✘	✘	-	-	-	(⇨ page 87)	(⇨ page 159)
150-125-315	✘	✘	✘	✘	-	-	-	(⇨ page 88)	(⇨ page 160)
150-125-400	✘	✘	✘	-	-	-	-	(⇨ page 89)	(⇨ page 161)
150-125-510	✘	-	-	-	-	-	-	(⇨ page 90)	(⇨ page 162)
200-150-200	✘	-	✘	✘	-	-	-	(⇨ page 91)	(⇨ page 163)
200-150-250	✘	-	✘	✘	-	-	-	(⇨ page 92)	(⇨ page 164)
200-150-315	✘	✘	✘	✘	-	-	-	(⇨ page 93)	(⇨ page 165)
200-150-400	✘	✘	✘	-	-	-	-	(⇨ page 94)	(⇨ page 166)
200-150-510	✘	-	-	-	-	-	-	(⇨ page 95)	(⇨ page 167)
200-200-250	✘	-	-	-	-	-	-	(⇨ page 96)	(⇨ page 168)
250-200-275	✘	-	-	-	-	-	-	(⇨ page 97)	(⇨ page 169)
250-200-320	✘	-	-	-	-	-	-	(⇨ page 98)	(⇨ page 170)
250-200-375	✘	-	-	-	-	-	-	(⇨ page 99)	(⇨ page 171)
250-200-435	✘	-	-	-	-	-	-	(⇨ page 100)	(⇨ page 172)
250-200-510	✘	-	-	-	-	-	-	(⇨ page 101)	(⇨ page 173)
300-250-295	✘	-	-	-	-	-	-	(⇨ page 102)	(⇨ page 174)

Taille	Gamme						Vitesse de rotation [t/min]		
	Etanorm	Etanorm SYT	Etanorm V	Etabloc	Etabloc SYT	Etanorm-RSY	3500	1750	1160
300-250-295.1	✘	-	-	-	-	-	-	(⇨ page 103)	(⇨ page 175)
300-250-320	✘	-	-	-	-	-	-	(⇨ page 104)	(⇨ page 176)
300-250-375	✘	-	-	-	-	-	-	(⇨ page 105)	(⇨ page 177)
300-250-435	✘	-	-	-	-	-	-	(⇨ page 106)	(⇨ page 178)
300-250-510	✘	-	-	-	-	-	-	(⇨ page 107)	(⇨ page 179)
350-300-350	✘	-	-	-	-	-	-	(⇨ page 108)	(⇨ page 180)
350-300-350.1	✘	-	-	-	-	-	-	(⇨ page 109)	(⇨ page 181)
350-300-375	✘	-	-	-	-	-	-	(⇨ page 110)	(⇨ page 182)
350-300-435	✘	-	-	-	-	-	-	(⇨ page 111)	(⇨ page 183)
350-300-510	✘	-	-	-	-	-	-	(⇨ page 112)	(⇨ page 184)

Tableau 2: Synoptique des tailles

Taille	Gamme						Vitesse de rotation [t/min]		
	Etanorm	Etanorm SYT	Etanorm V	Etabloc	Etabloc SYT	Etanorm-RSY	3500	1750	1160
125-500.2	-	-	-	-	-	✘	-	-	(⇨ page 185)
150-500.1	-	-	-	-	-	✘	-	-	(⇨ page 186)
200-330	-	-	-	-	-	✘	-	(⇨ page 115)	(⇨ page 187)
200-400	-	-	-	-	-	✘	-	(⇨ page 116)	(⇨ page 188)
200-500	-	-	-	-	-	✘	-	-	(⇨ page 189)
250-300	-	-	-	-	-	-	-	(⇨ page 117)	-
250-330	-	-	-	-	-	✘	-	(⇨ page 118)	(⇨ page 190)
250-400	-	-	-	-	-	✘	-	(⇨ page 119)	(⇨ page 191)
250-500	-	-	-	-	-	✘	-	-	(⇨ page 192)
300-360	-	-	-	-	-	✘	-	(⇨ page 121)	(⇨ page 194)
300-400	-	-	-	-	-	-	-	(⇨ page 122)	-
300-500	-	-	-	-	-	✘	-	-	(⇨ page 195)

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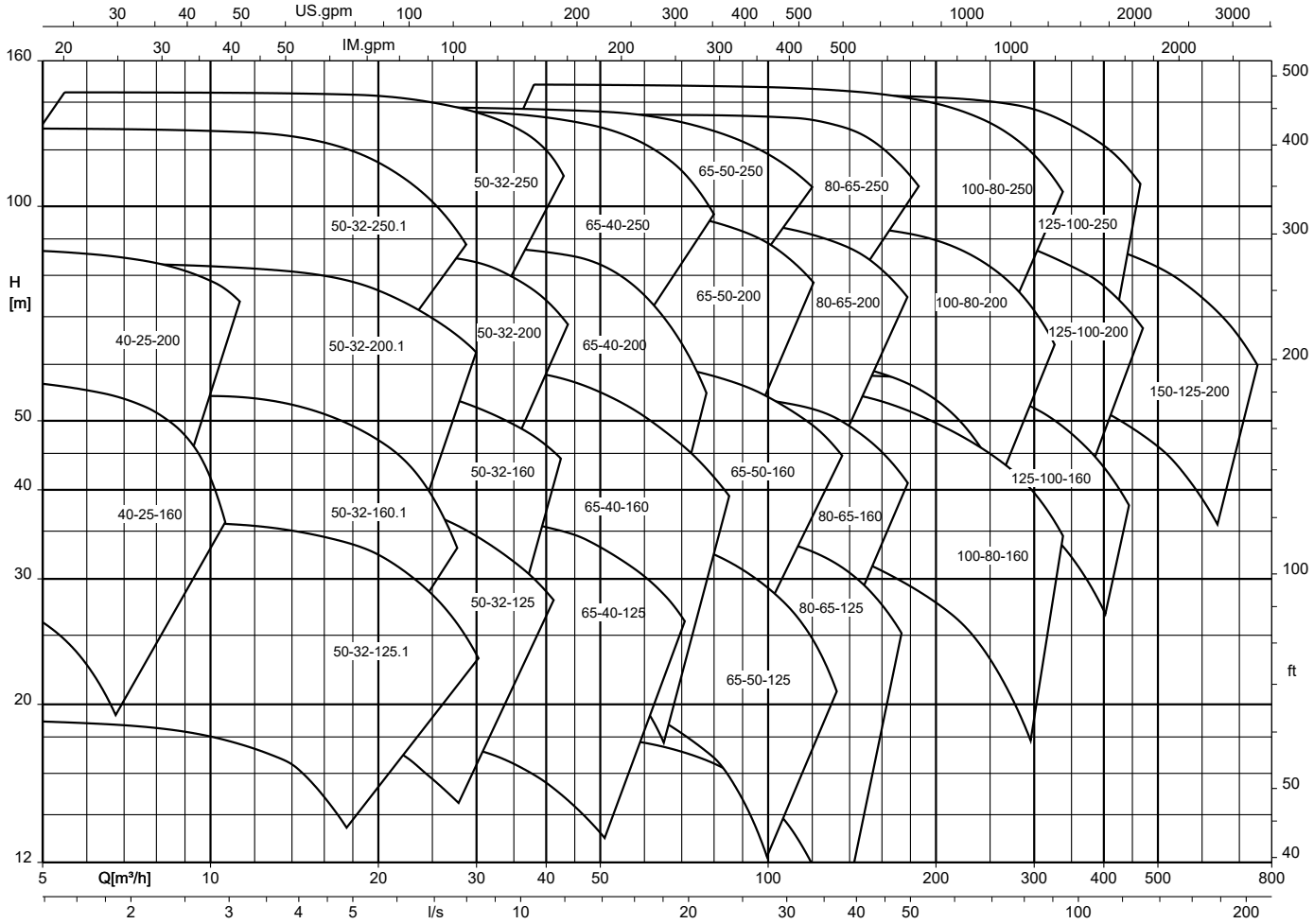
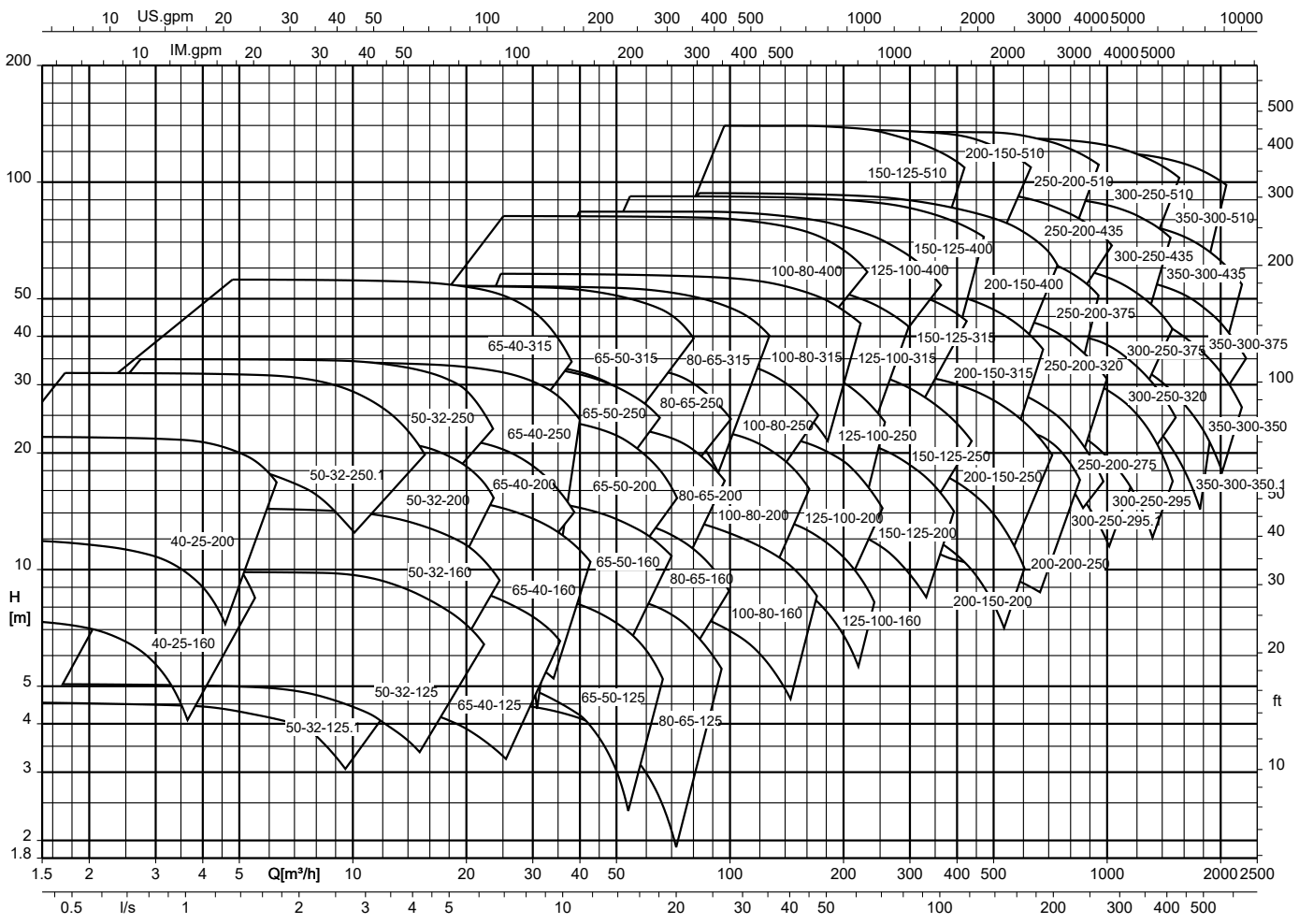
Grilles de sélection

Etanorm, n = 3500 t/min



Etanorm, n = 1750 t/min



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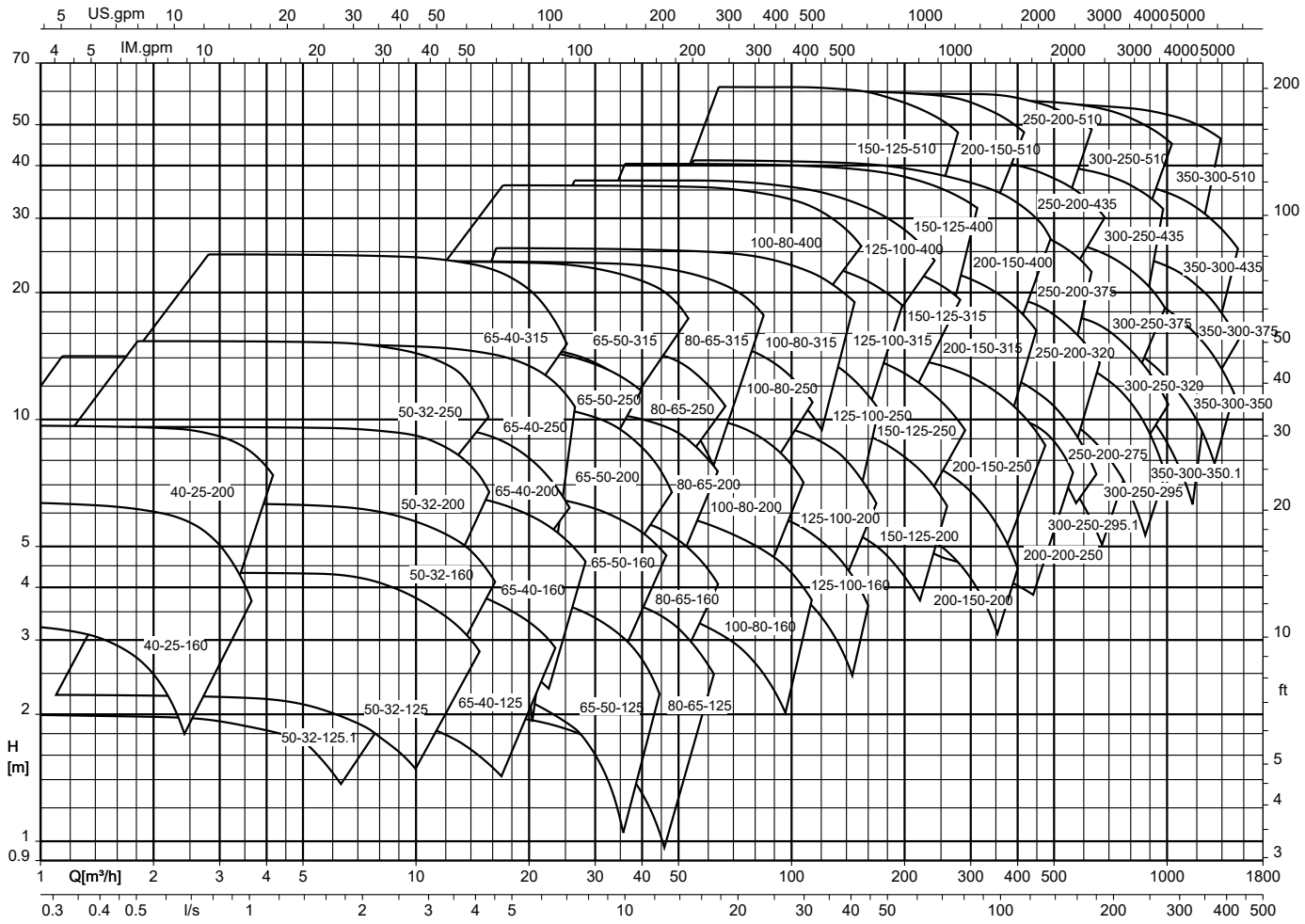
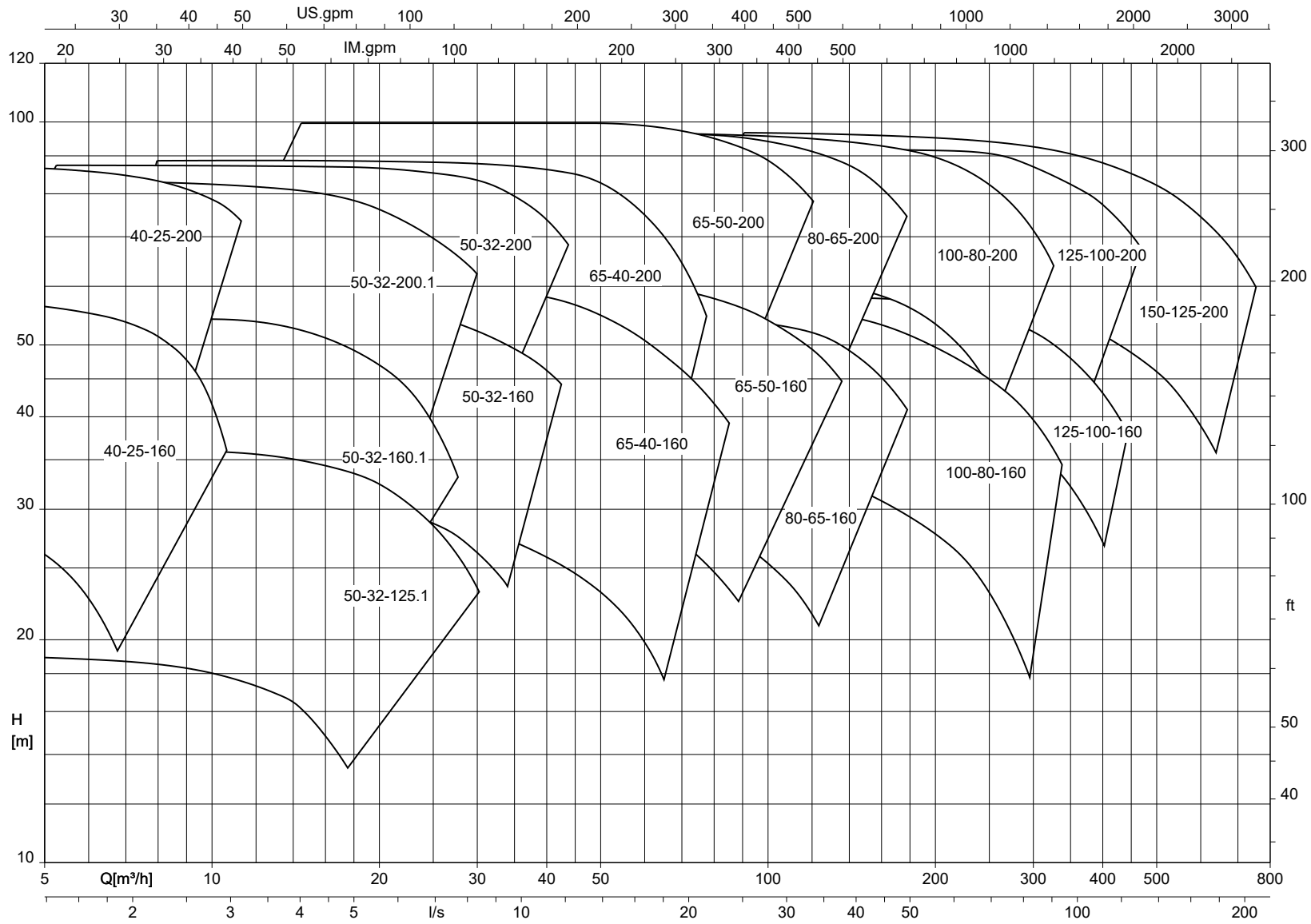
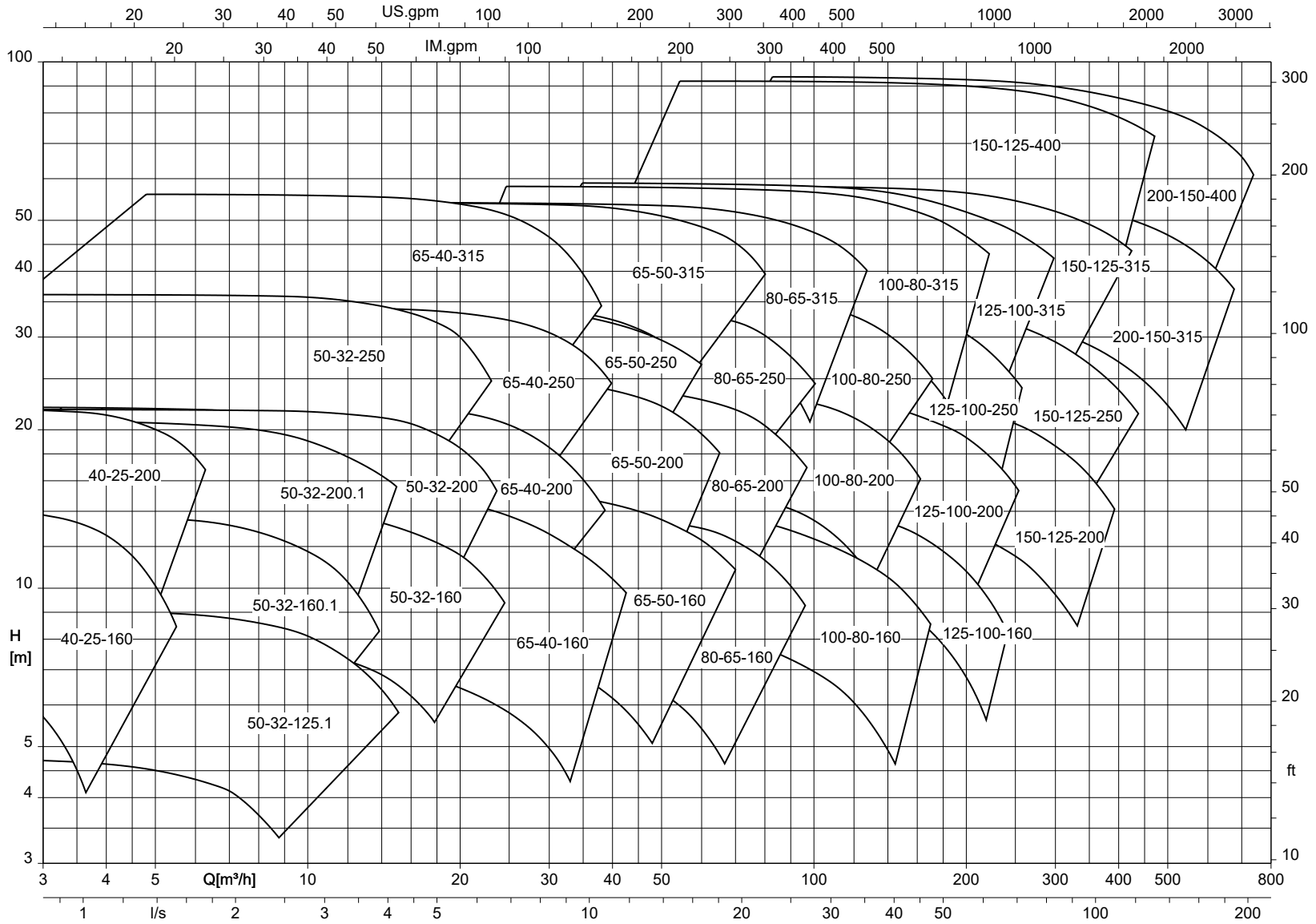


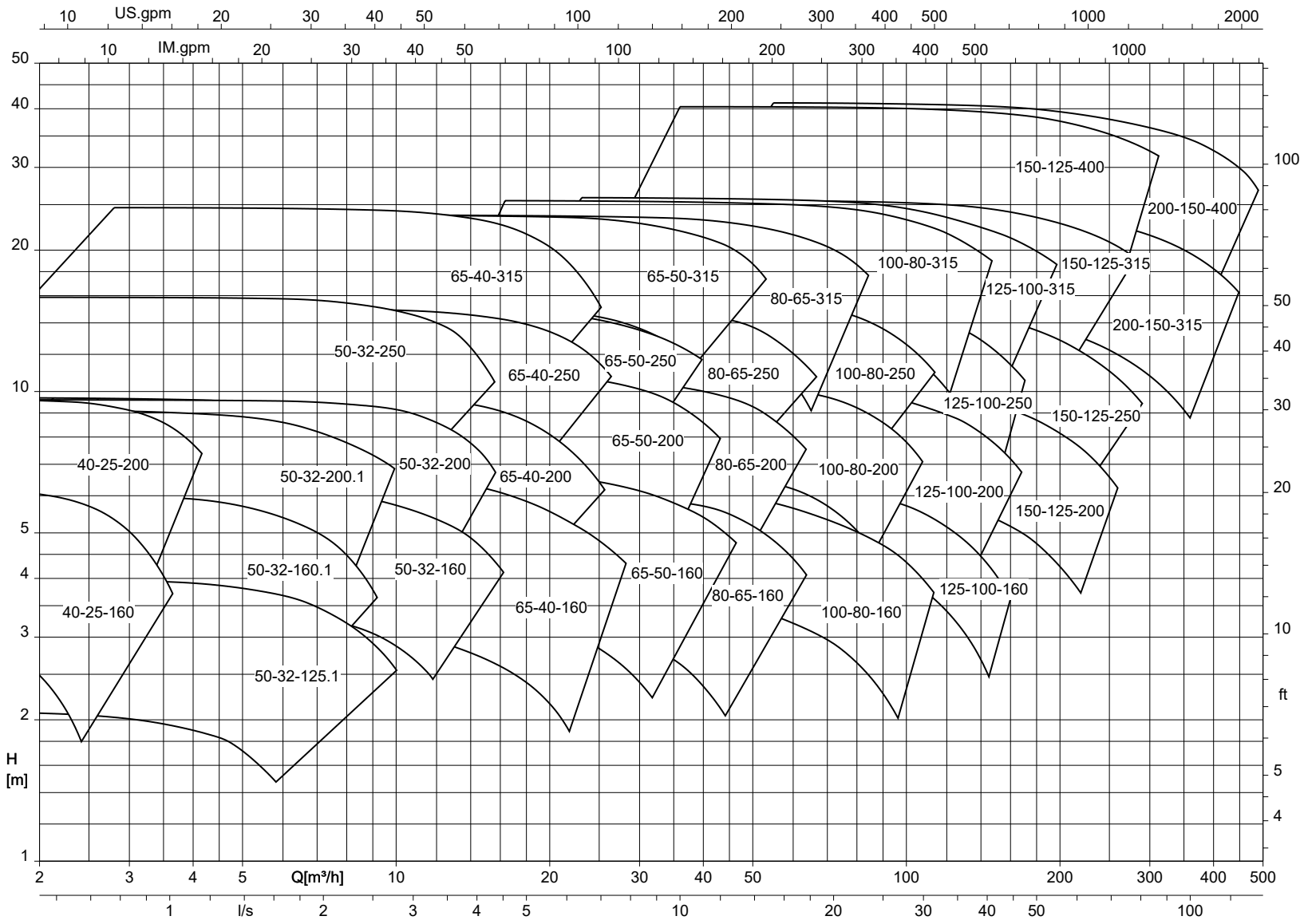
Etanorm SYT, n = 3500 t/min



Etanorm SYT, n = 1750 t/min



Etanorm SYT, n = 1160 t/min



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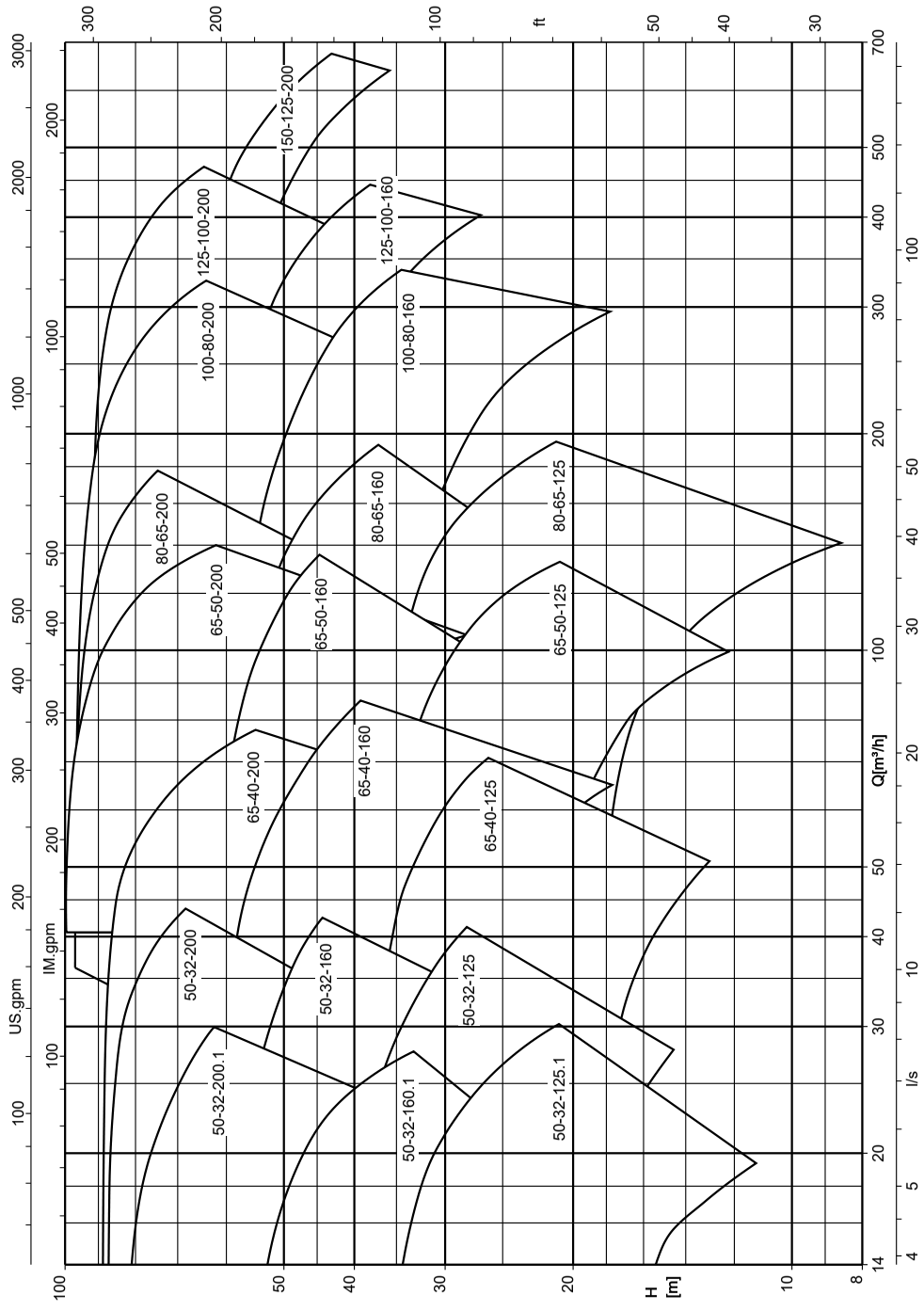
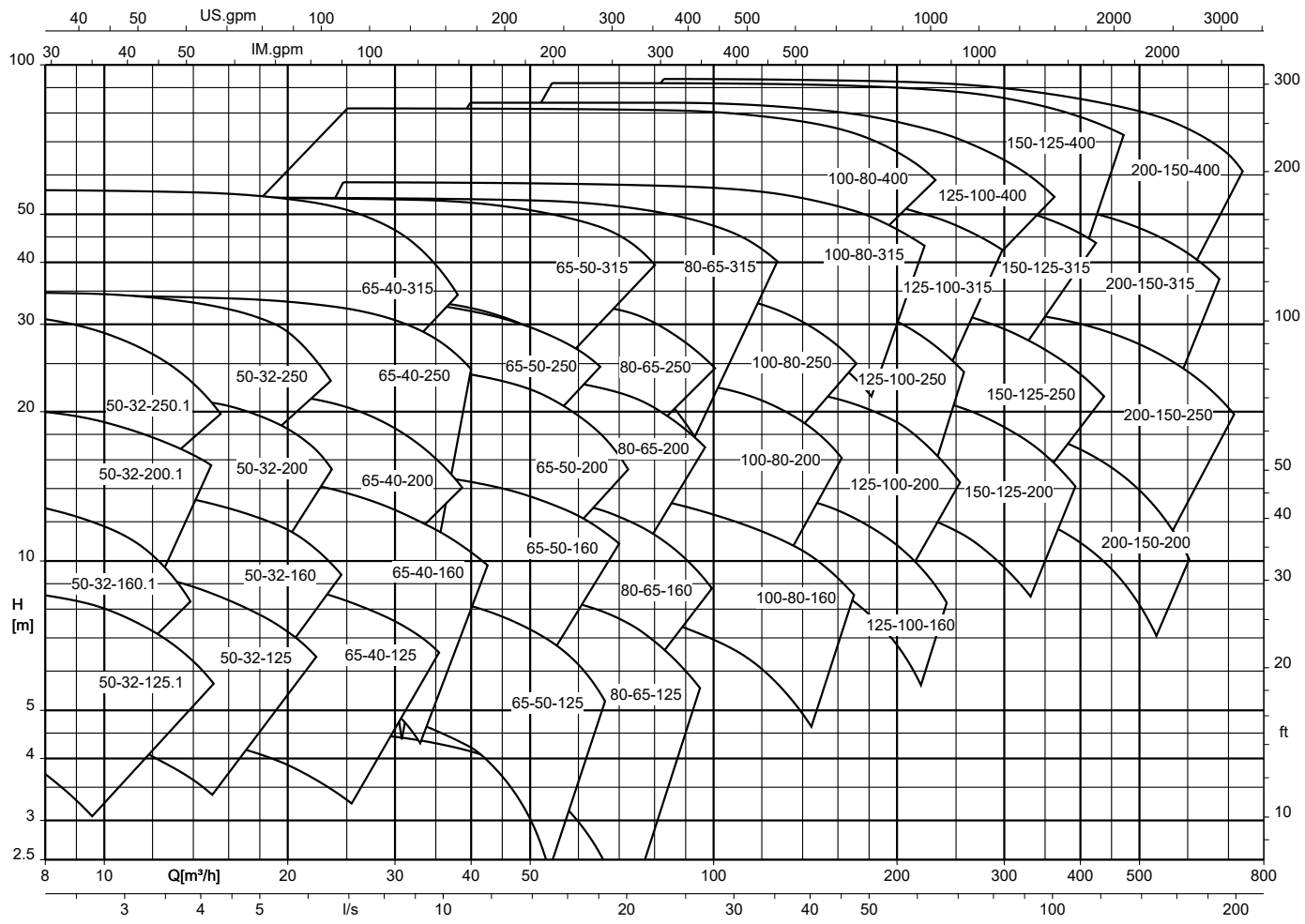
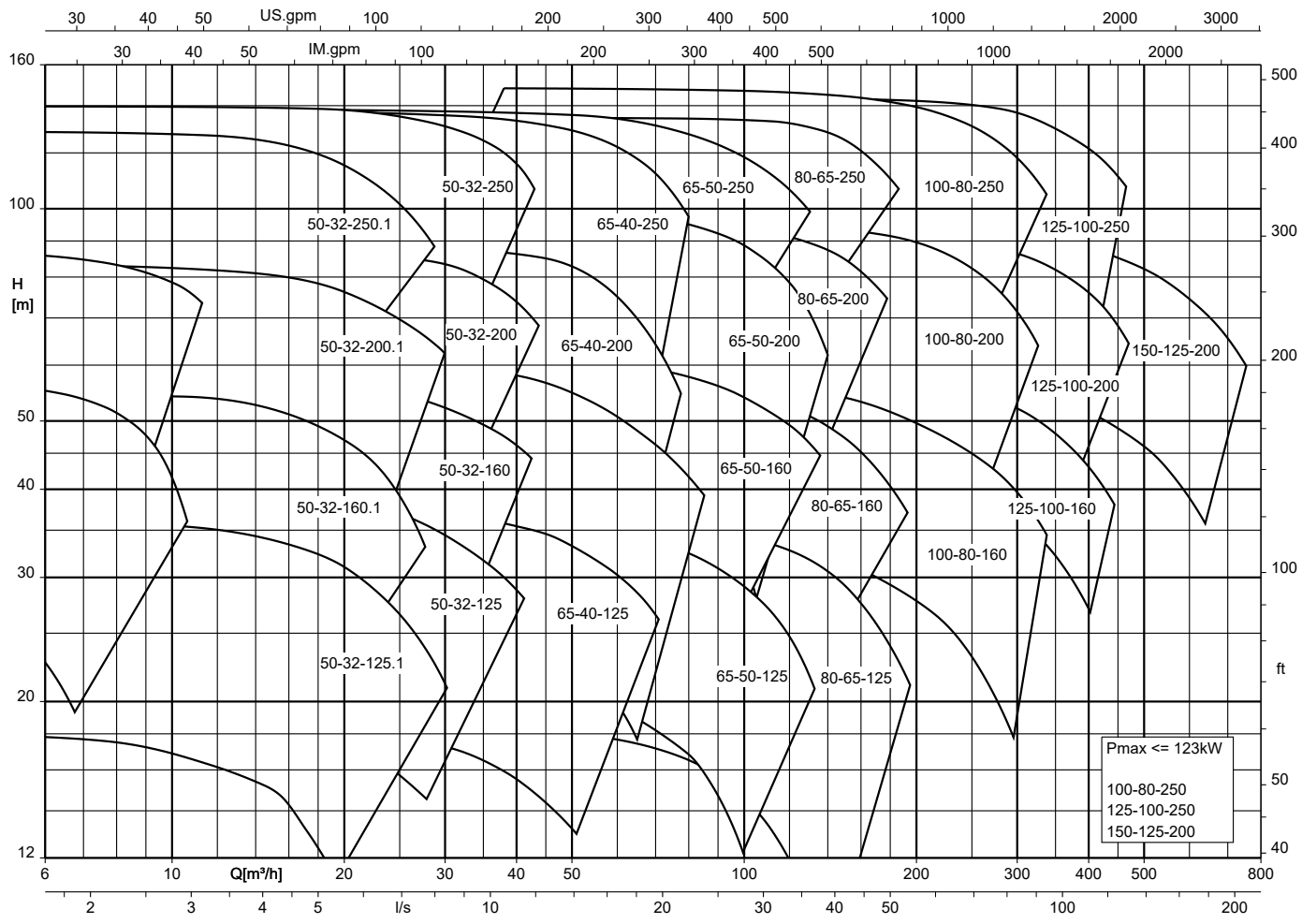
Etanorm V (à vitesse fixe), n = 3500 t/min



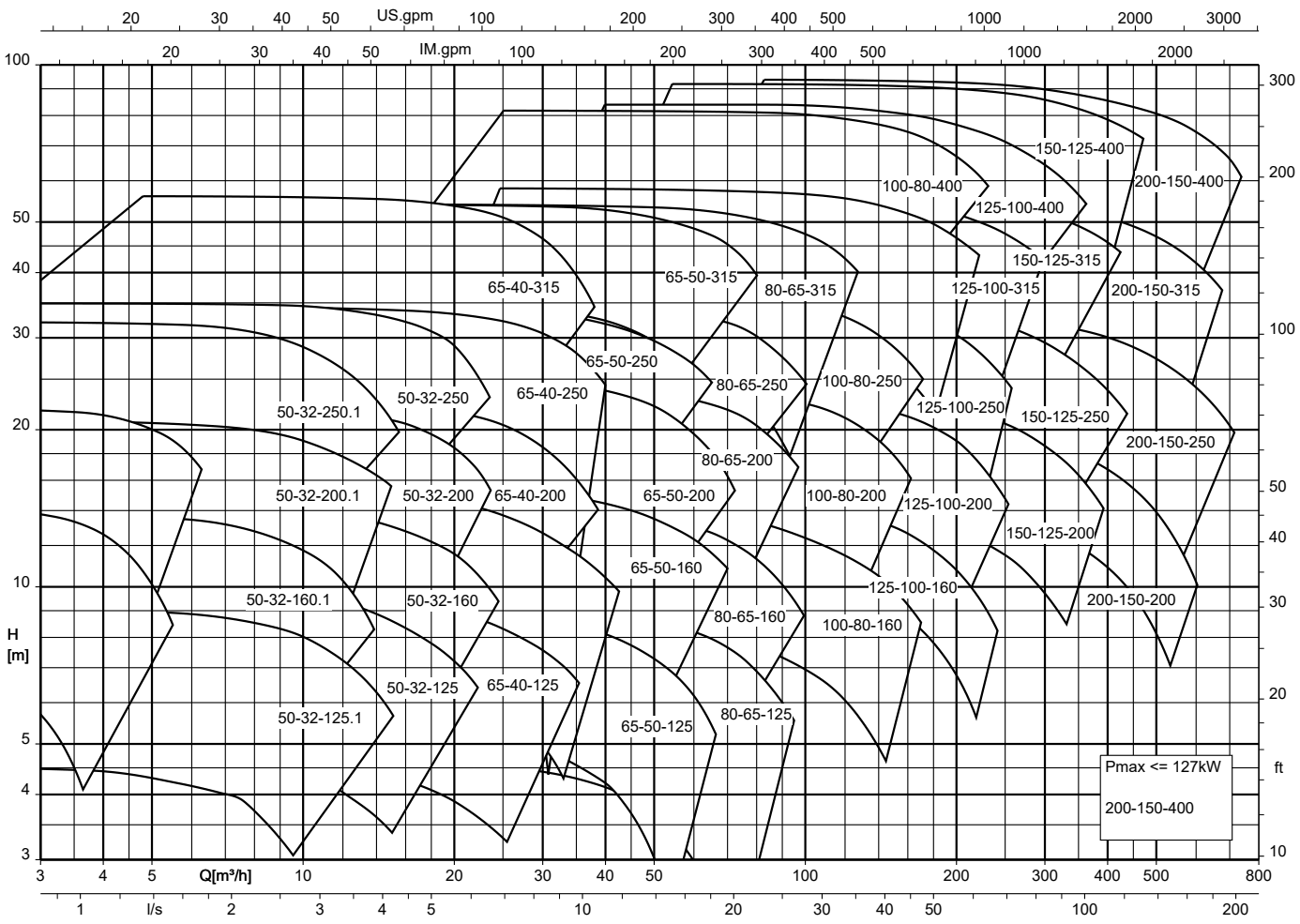
Etanorm V (à vitesse fixe), n = 1750 t/min



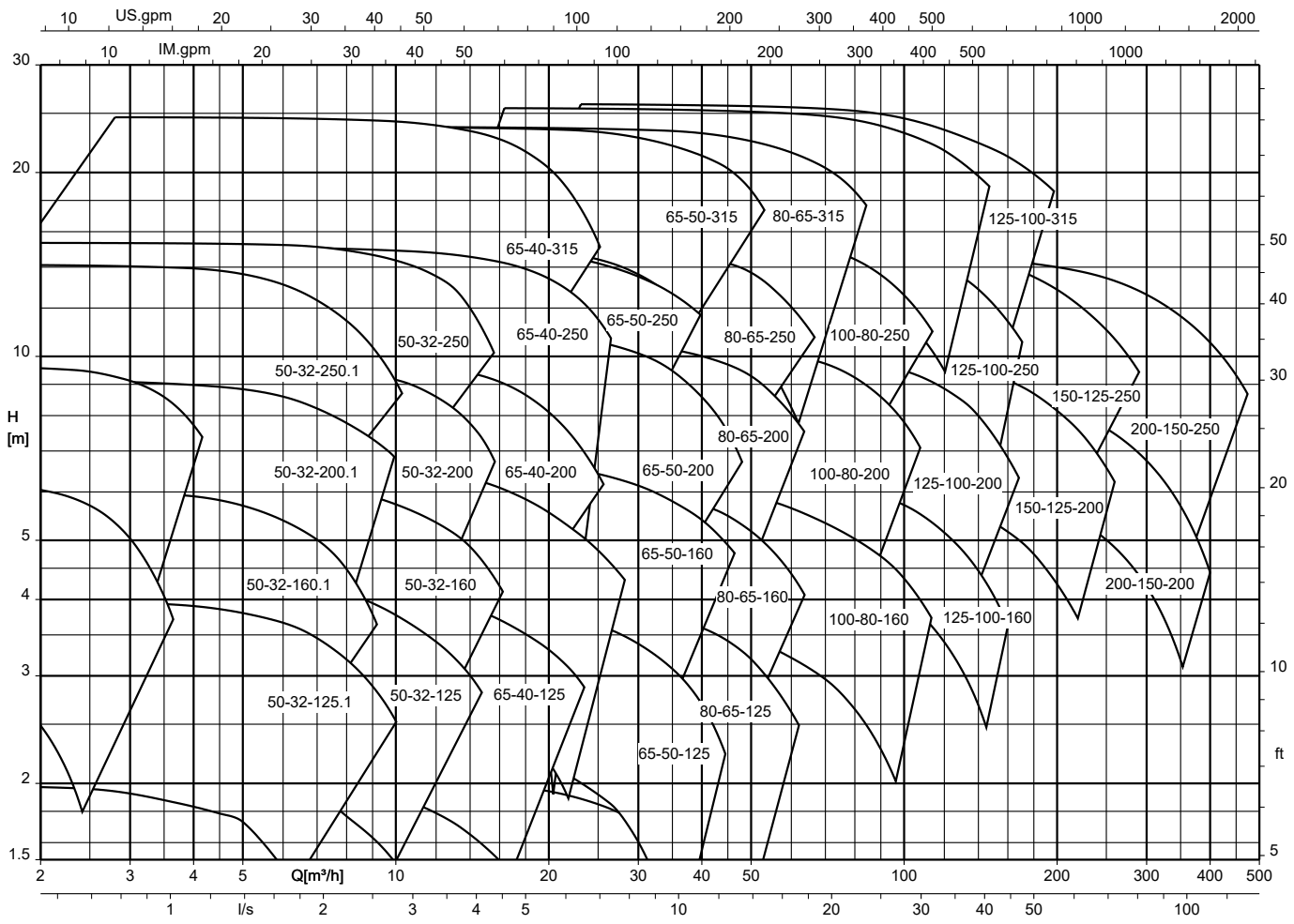
Etabloc, n = 3500 t/min (version à vitesse fixe)



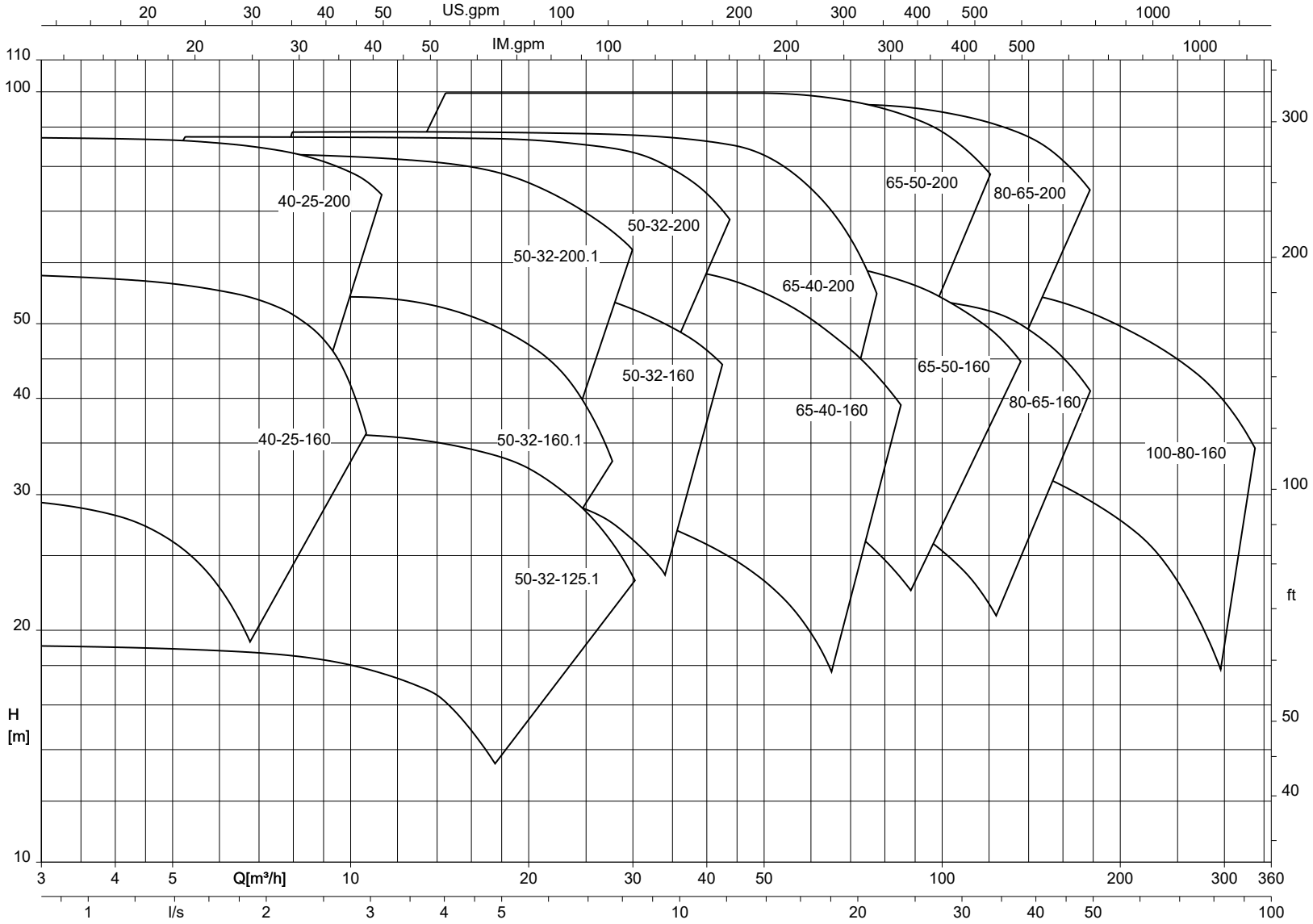
Etabloc, n = 1750 t/min (version à vitesse fixe)



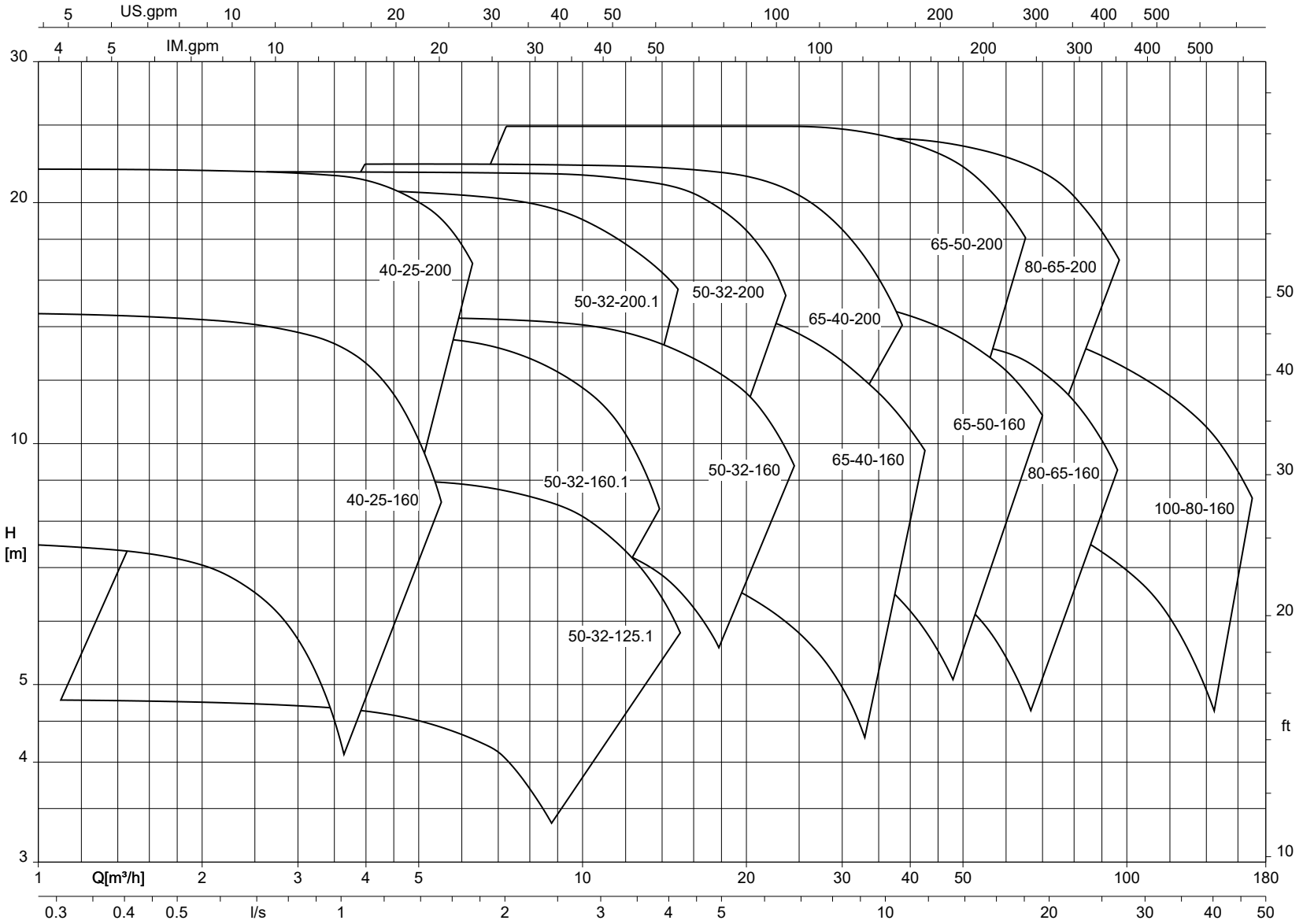
Etabloc, n = 1160 t/min (version à vitesse fixe)



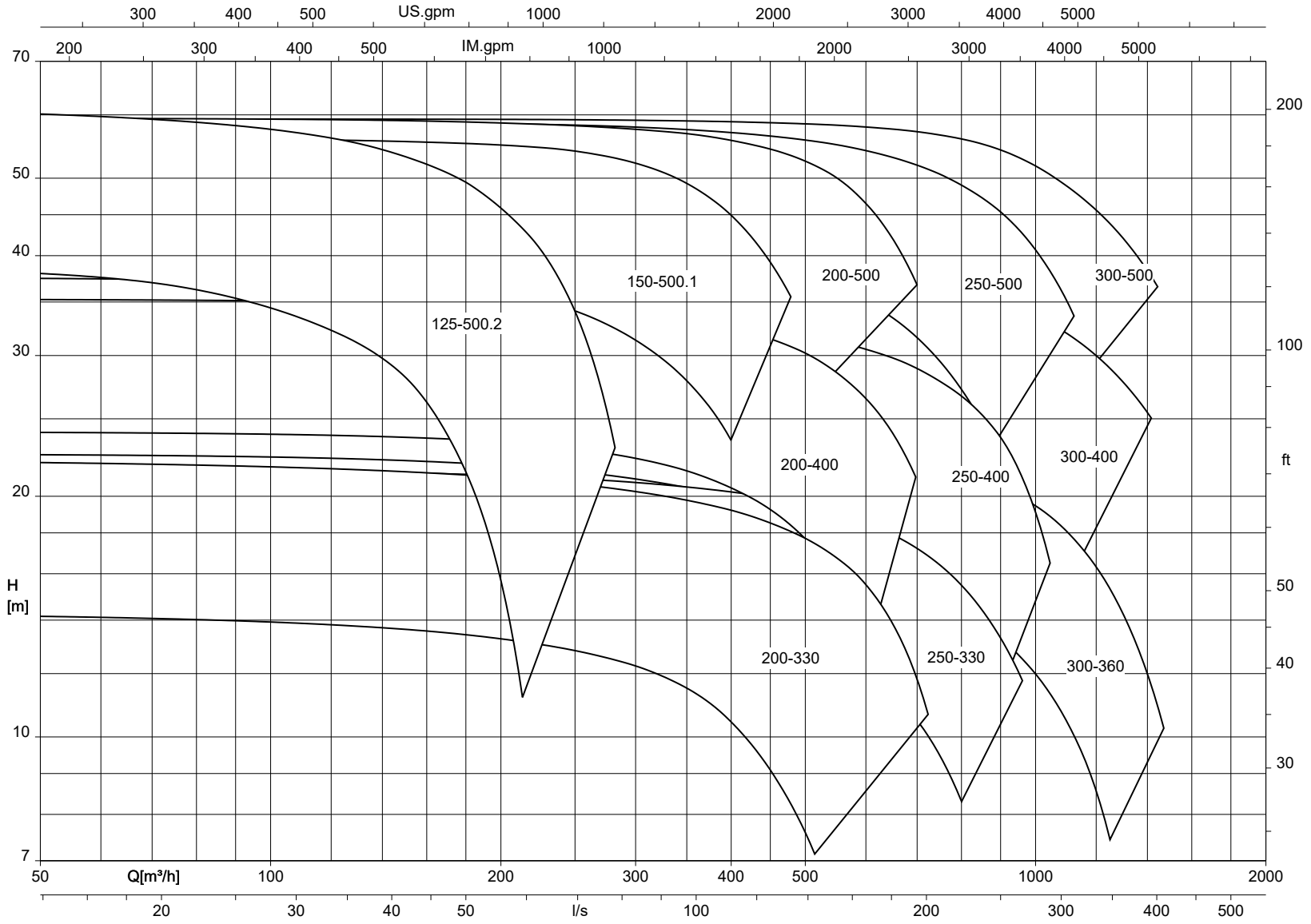
Etabloc SYT, n = 3500 t/min

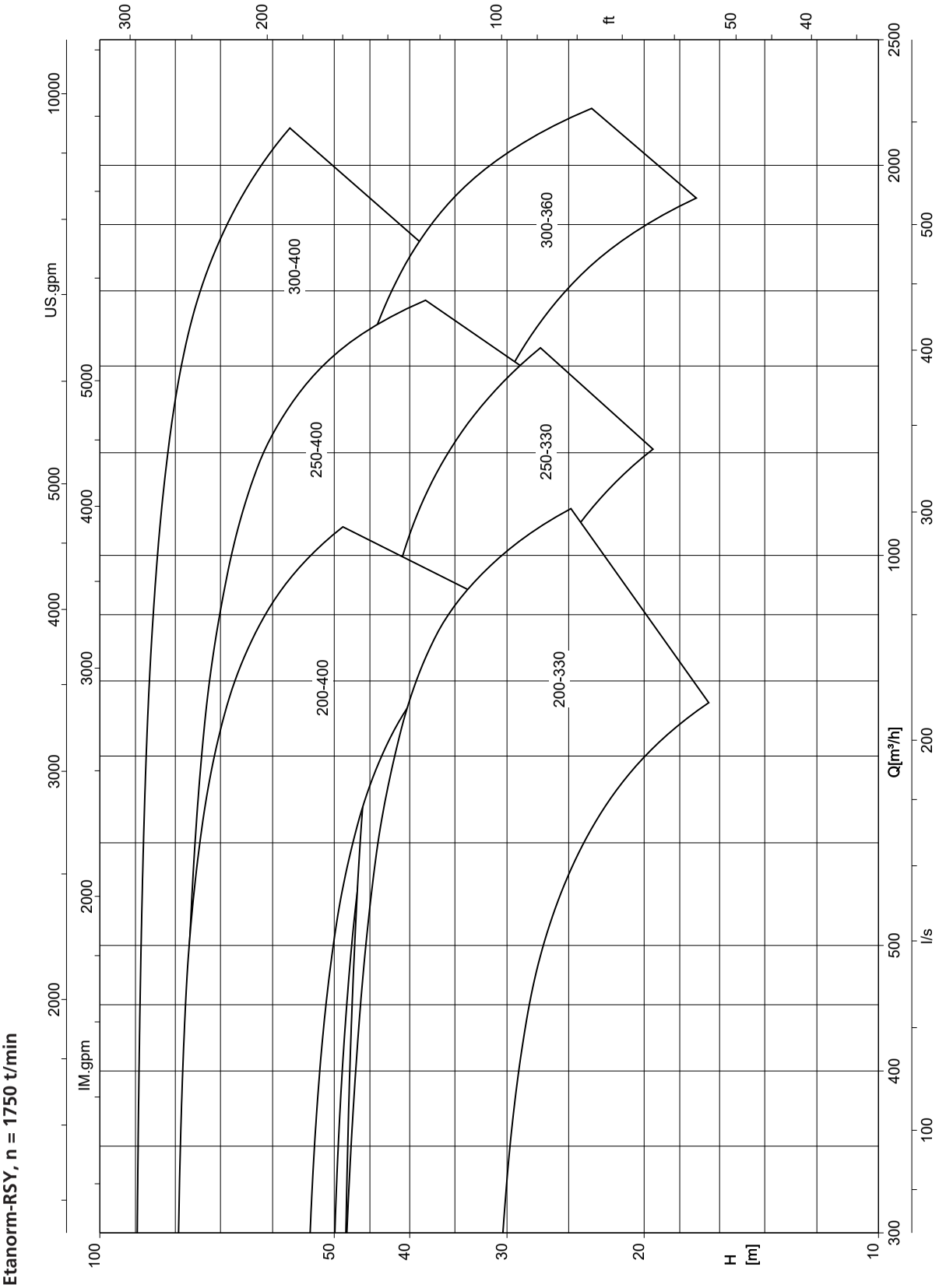


Etabloc SYT, n = 1750 t/min



Etanorm-RSY, n = 1160 t/min



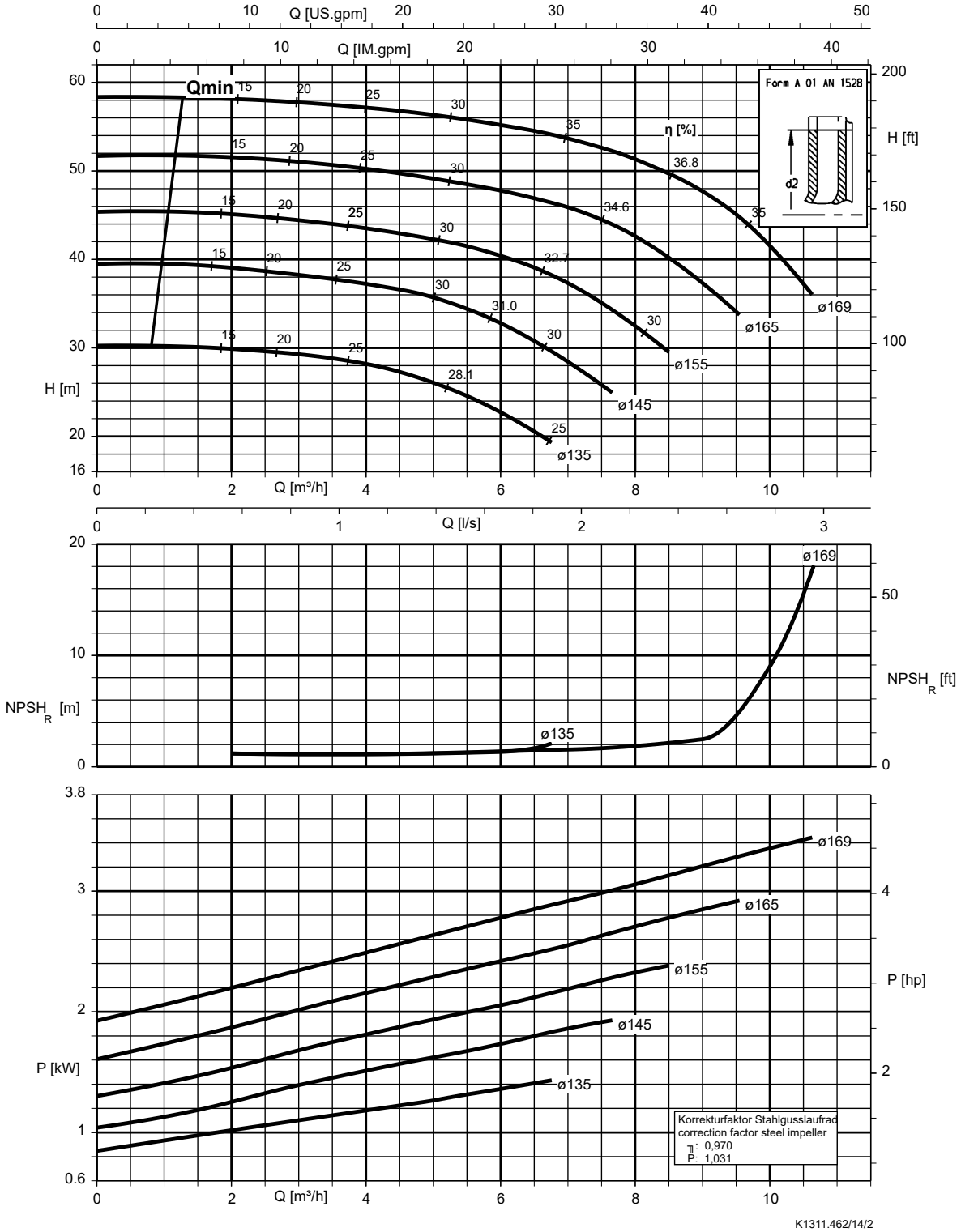

Etanorm-RSY, n = 1750 t/min
1311.46/11-FR
IM.gpm
US.gpm
ft
Q[m³/h]
l/s
H [m]
300-400
300-360
250-400
250-330
200-400
200-330

Courbes caractéristiques

n = 3500 t/min

Etanorm 040-025-160, n = 3500 t/min

Etanorm SYT, Etabloc, Etabloc SYT



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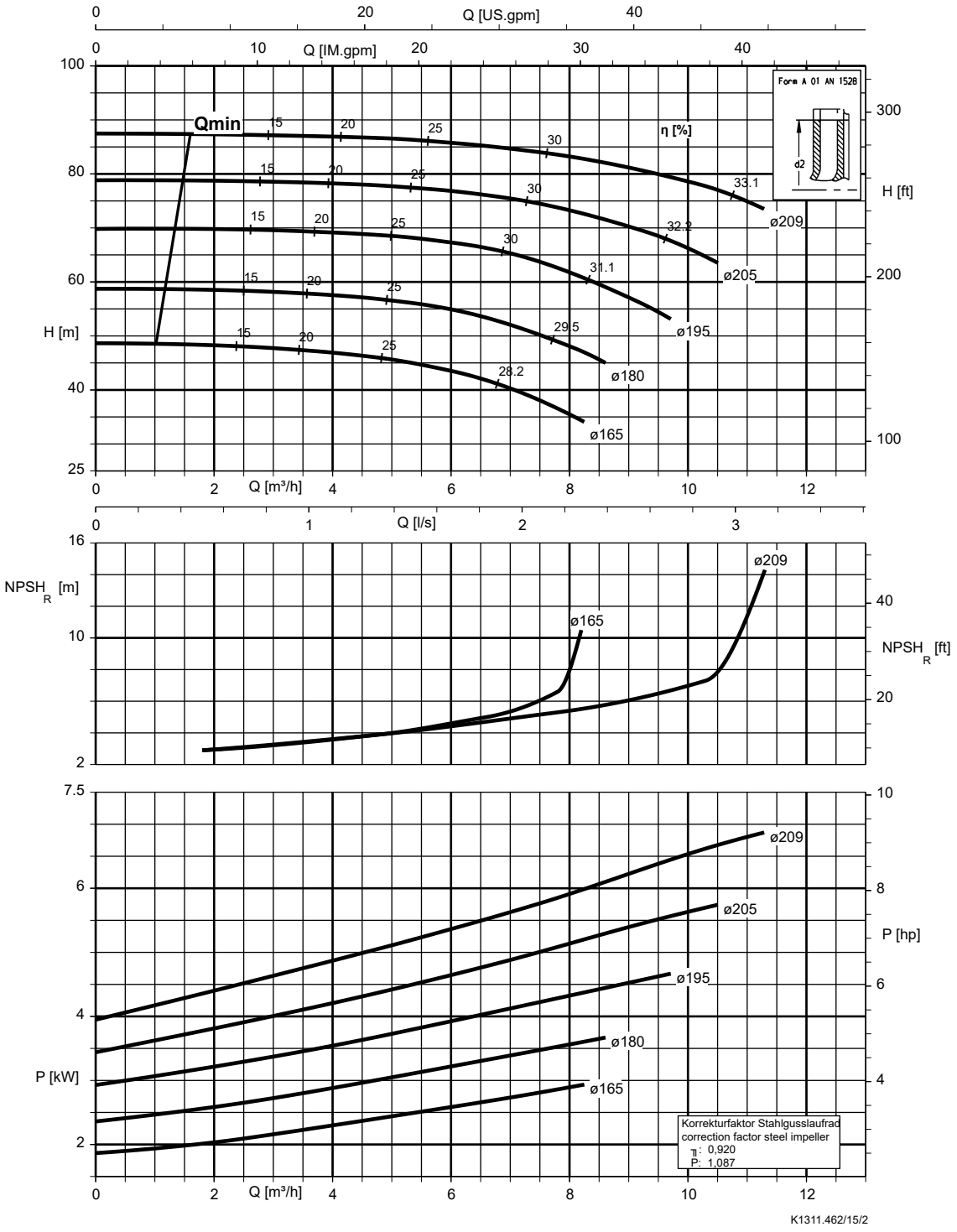
Etanorm 040-025-200, n = 3500 t/min

Etanorm SYT, Etabloc, Etabloc SYT



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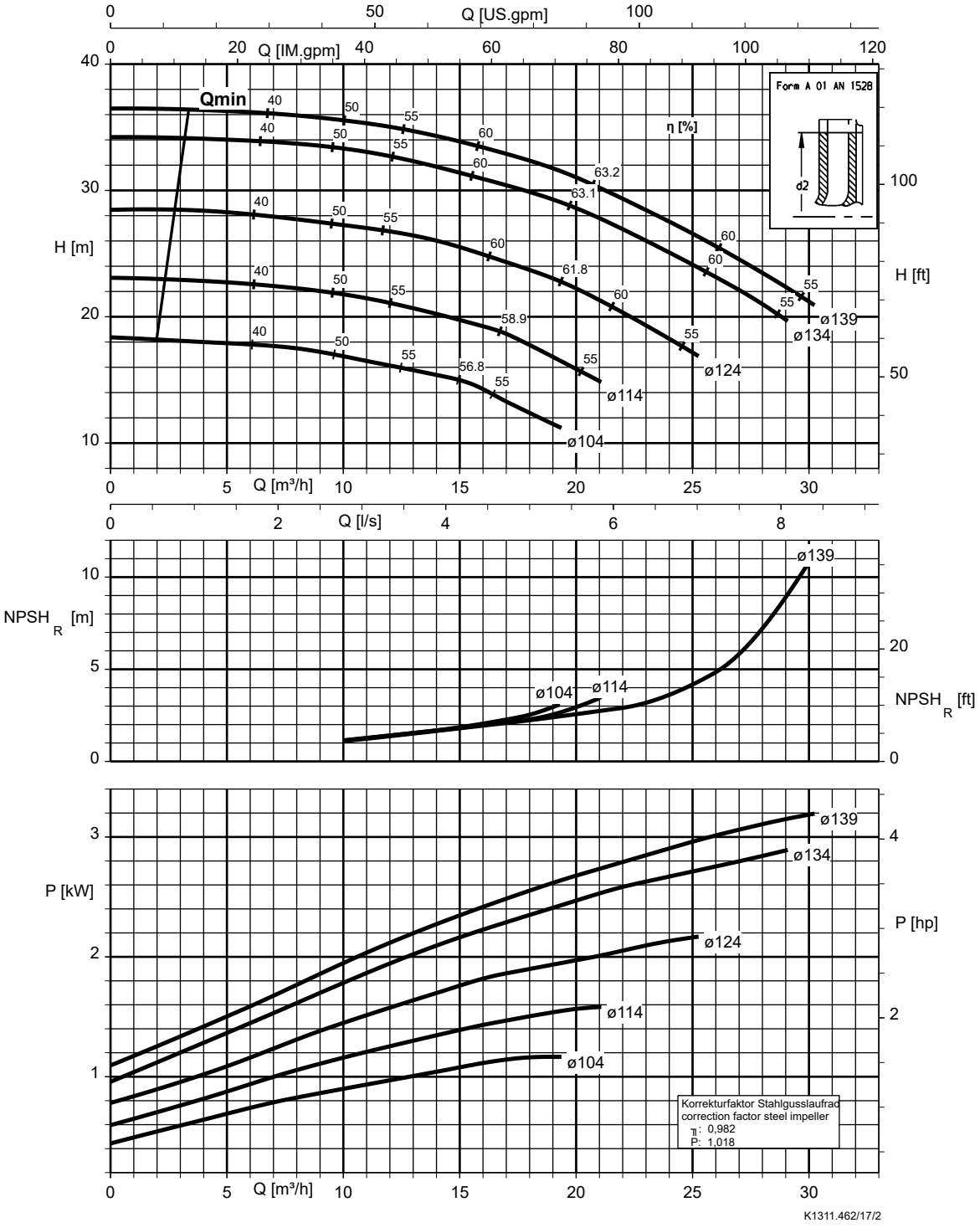
Etanorm 050-032-125.1, n = 3500 t/min

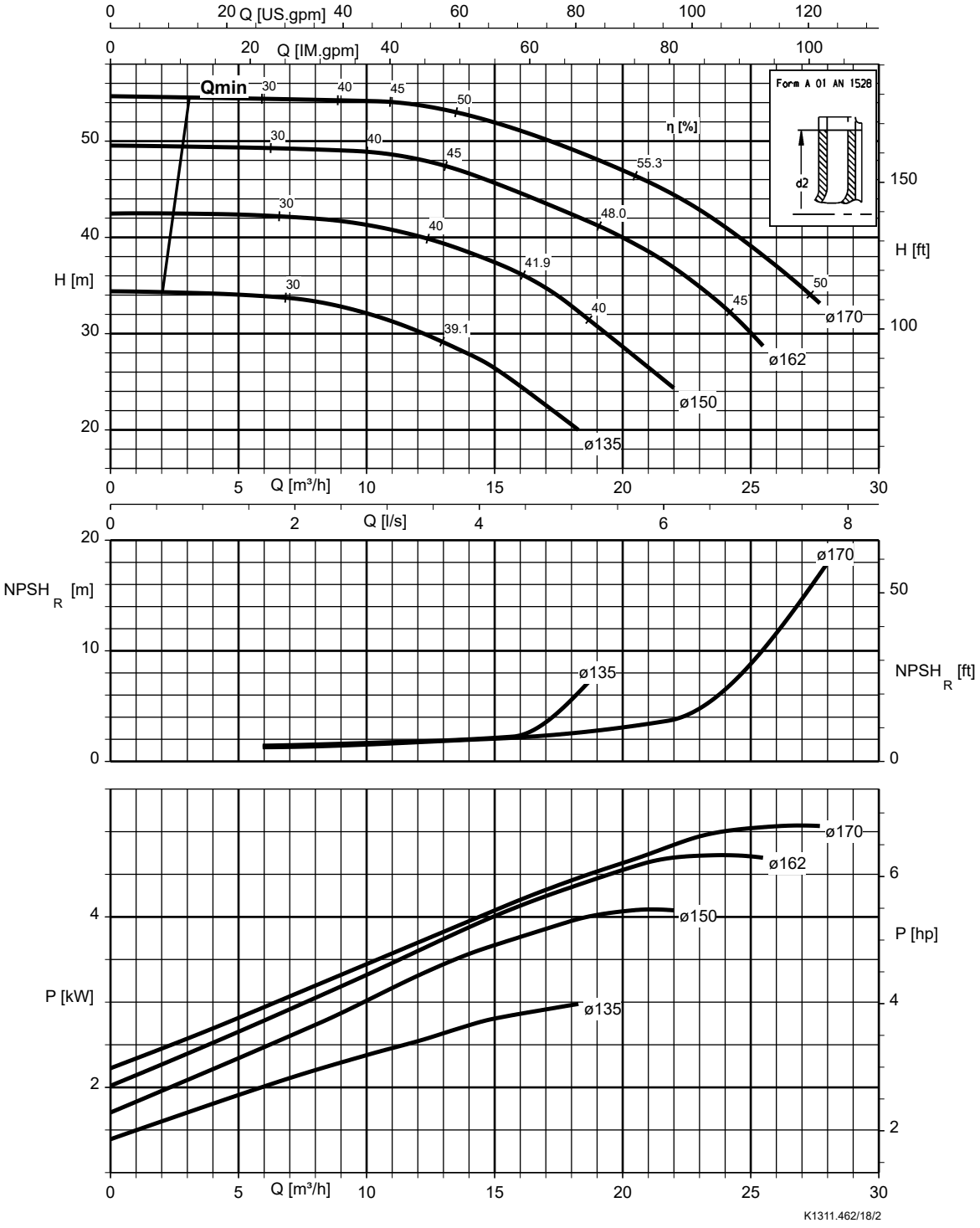
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 050-032-160.1, n = 3500 t/min

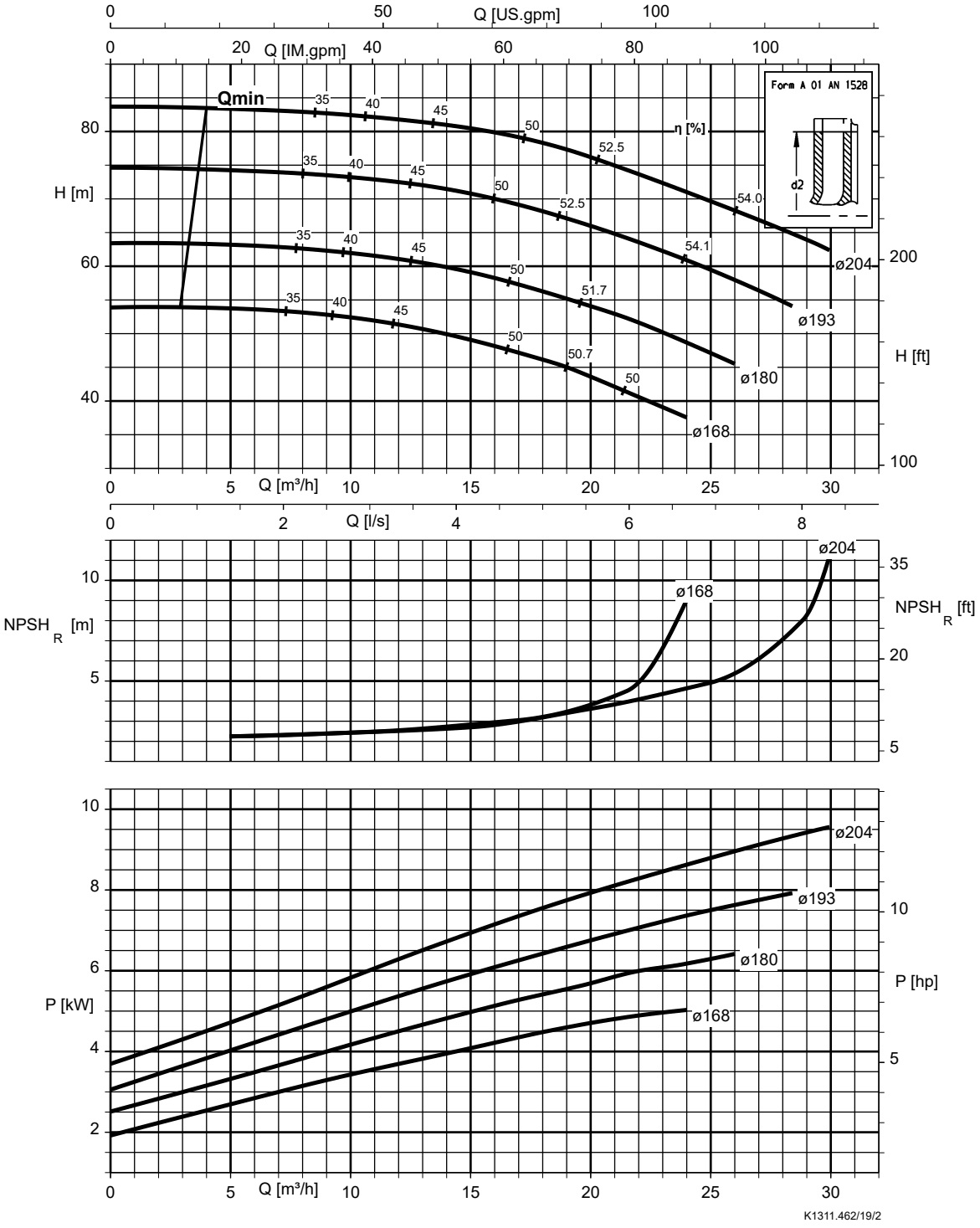
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 050-032-200.1, n = 3500 t/min

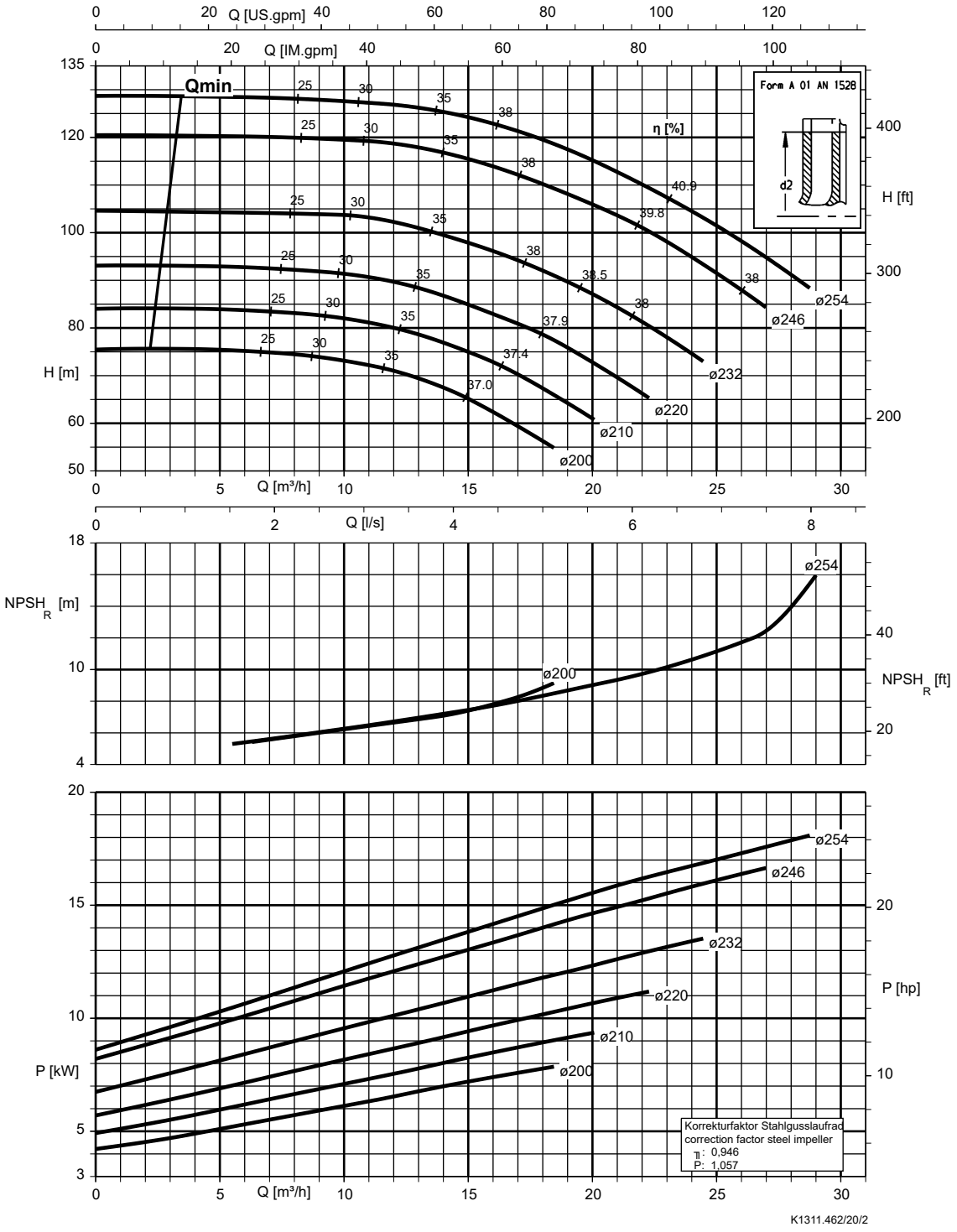
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 050-032-250.1, n = 3500 t/min

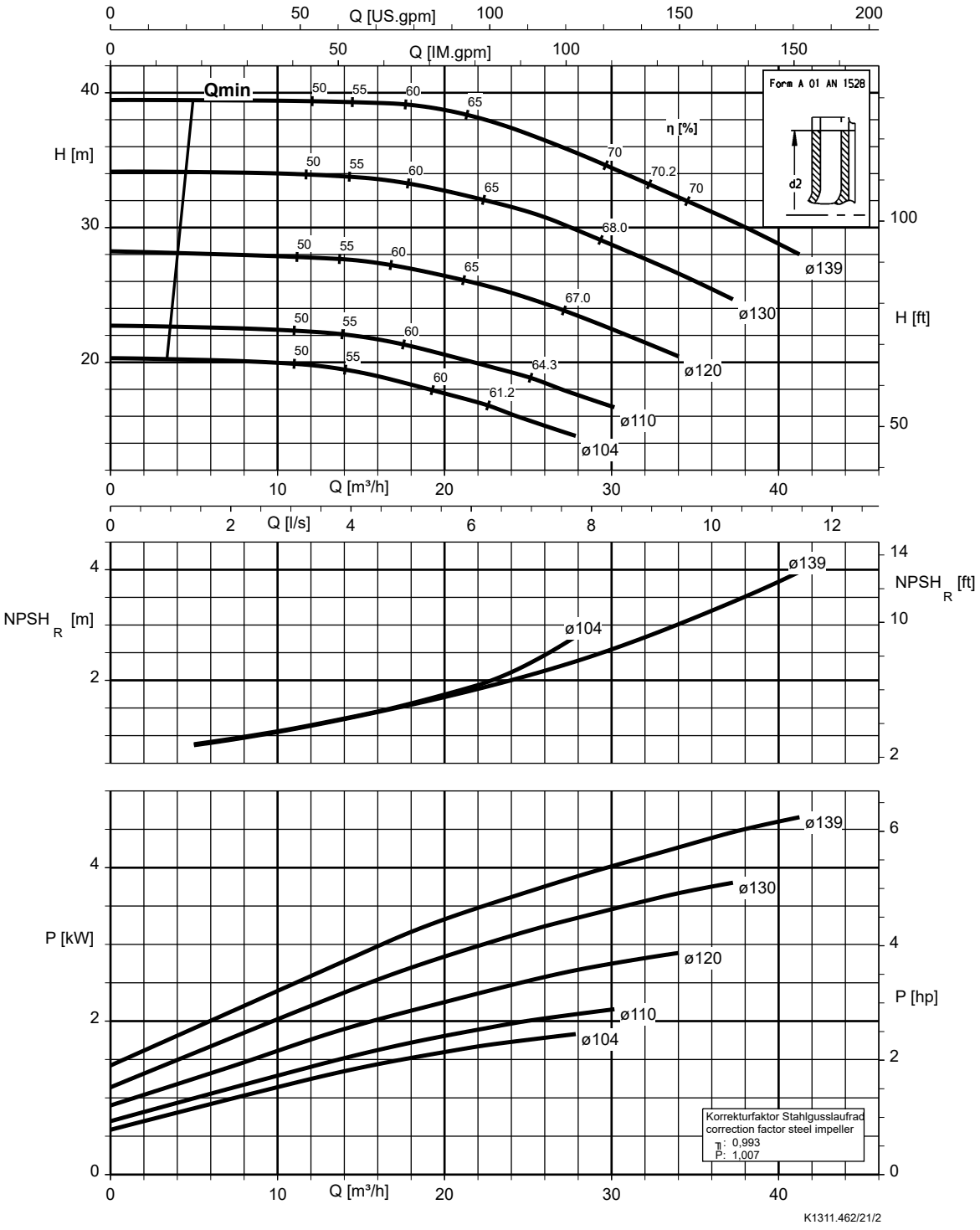
Etabloc



1311.46/11-FR

Etanorm 050-032-125, n = 3500 t/min

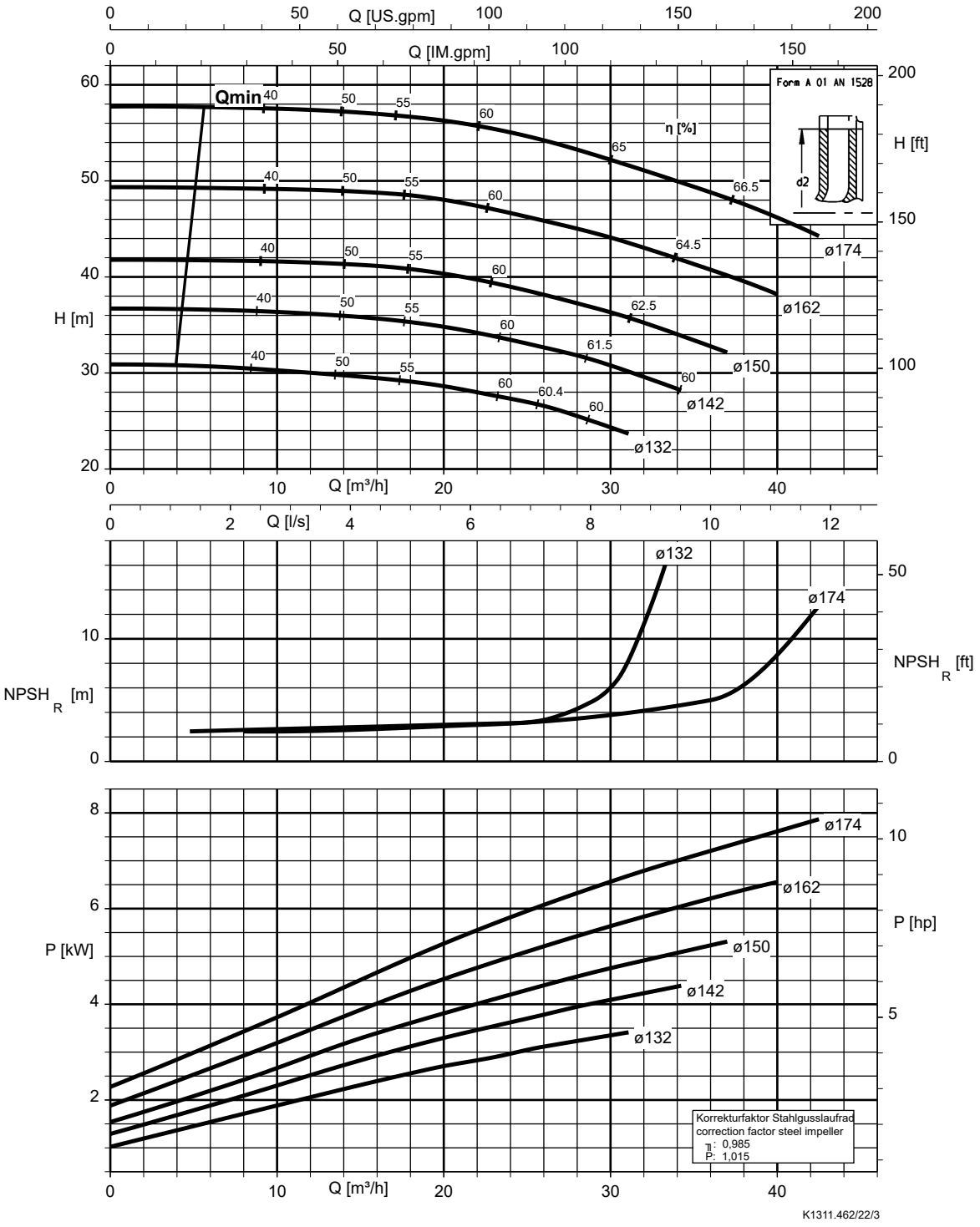
Etanorm V, Etabloc



1311.46/11-FR

Etanorm 050-032-160, n = 3500 t/min

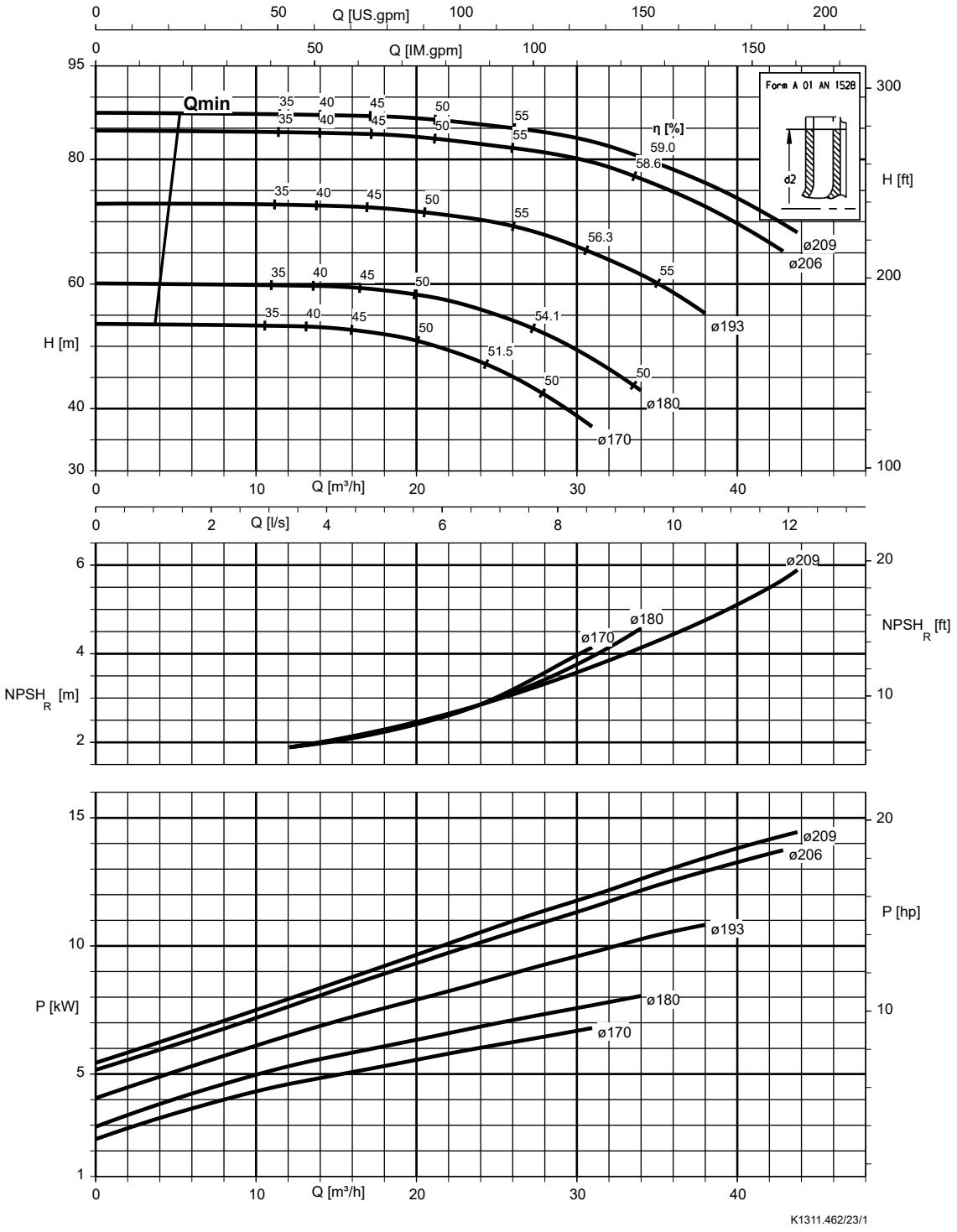
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 050-032-200, n = 3500 t/min

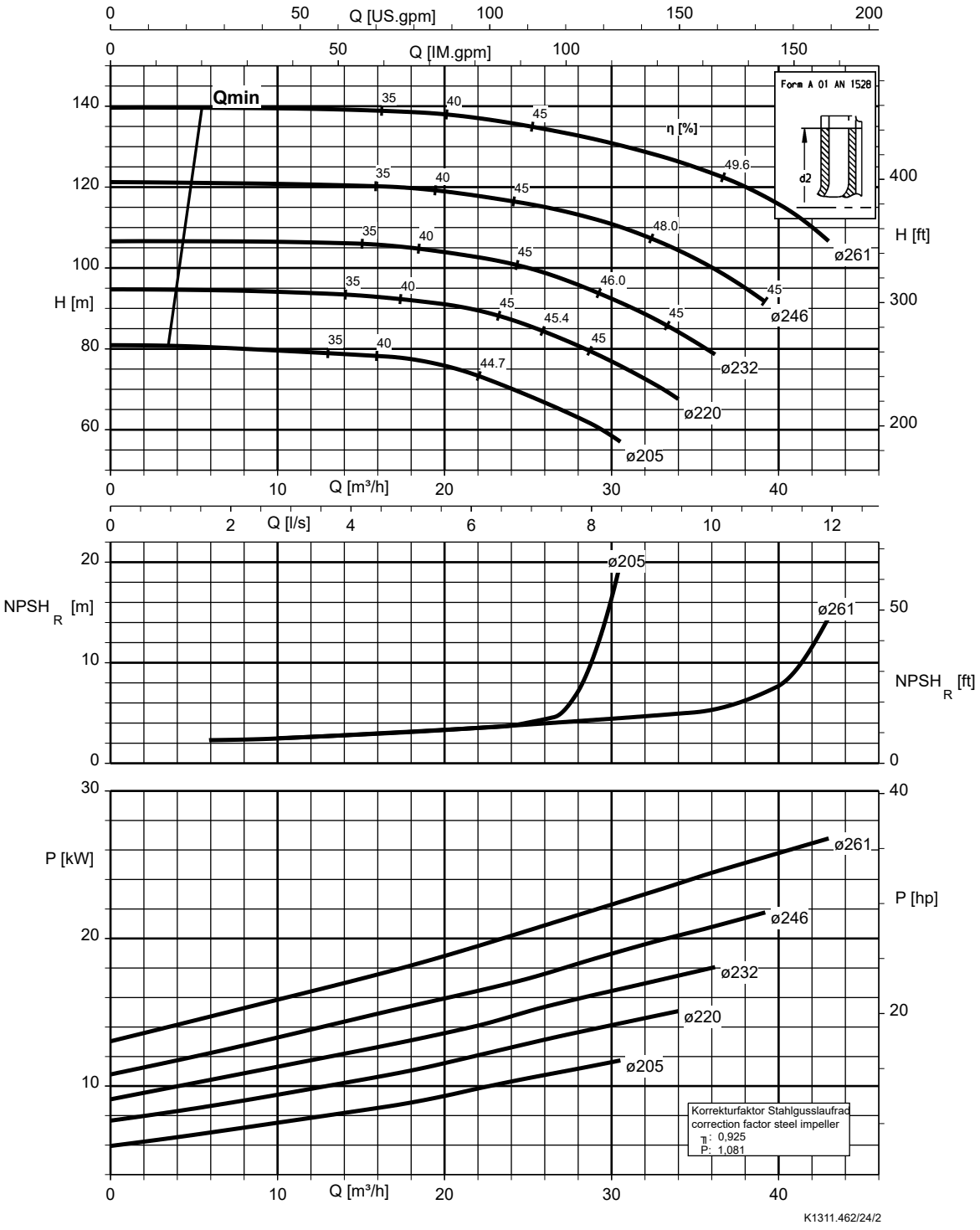
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 050-032-250, n = 3500 t/min

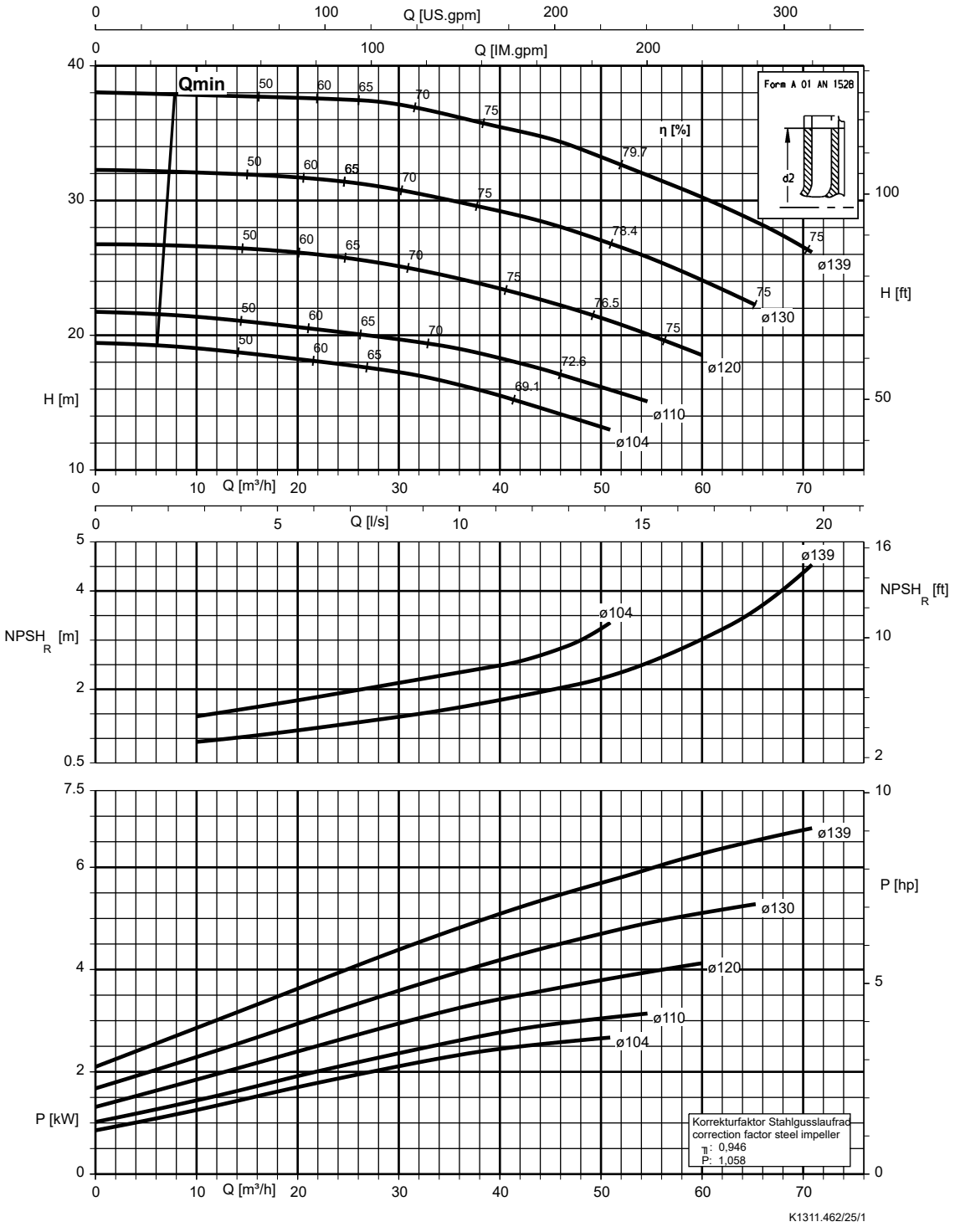
Etabloc



1311.46/11-FR

Etanorm 065-040-125, n = 3500 t/min

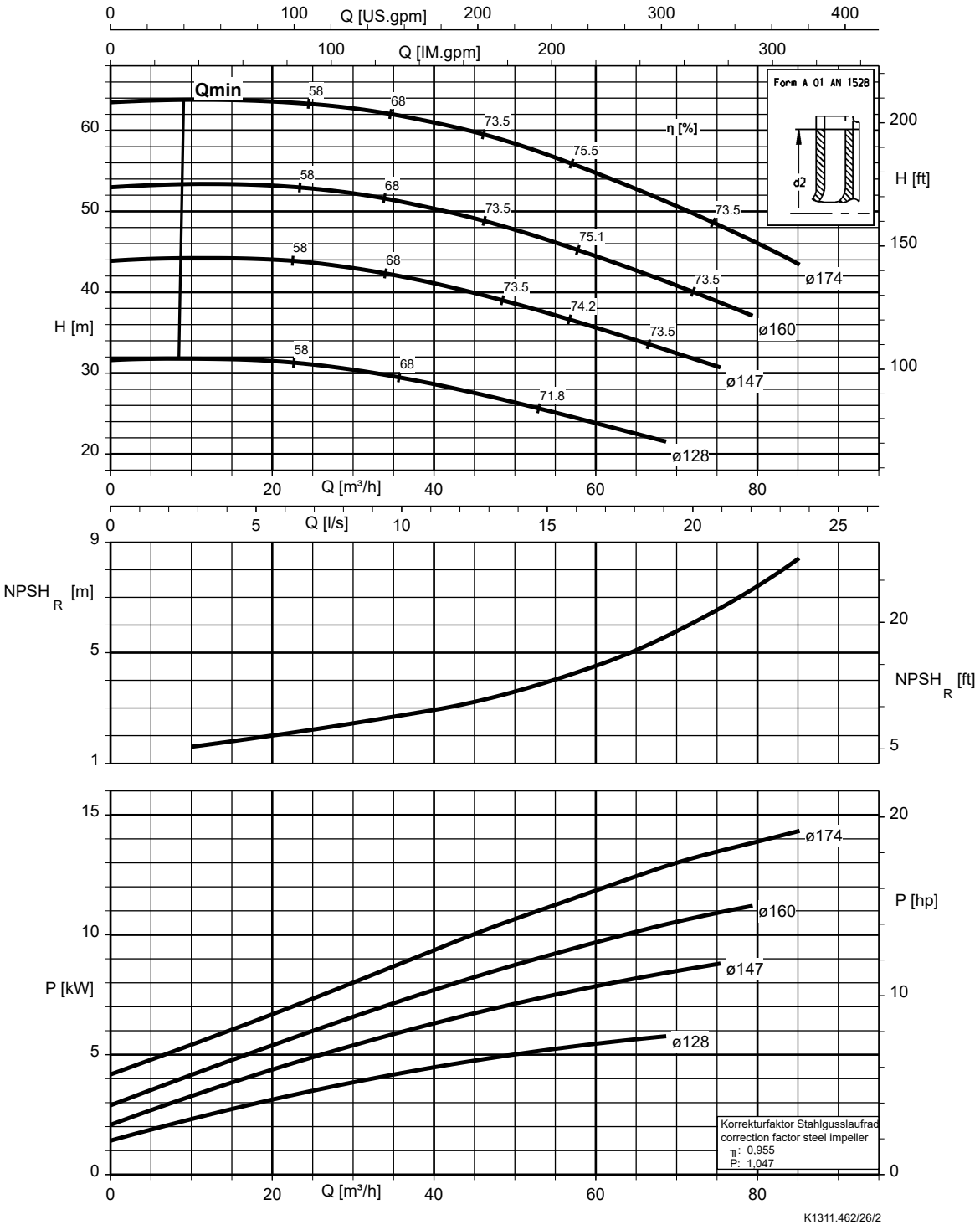
Etanorm V, Etabloc



1311.46/11-FR

Etanorm 065-040-160, n = 3500 t/min

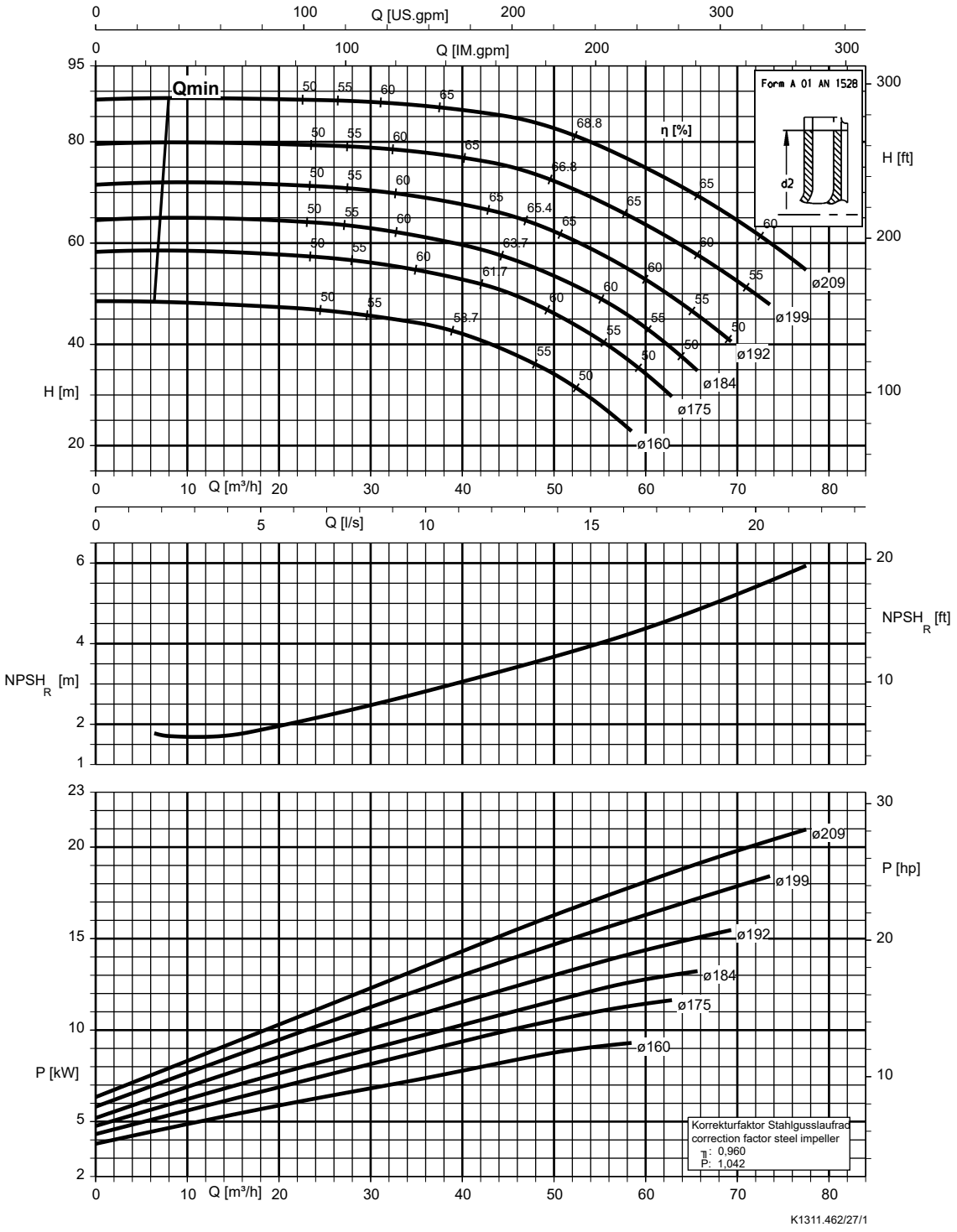
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 065-040-200, n = 3500 t/min

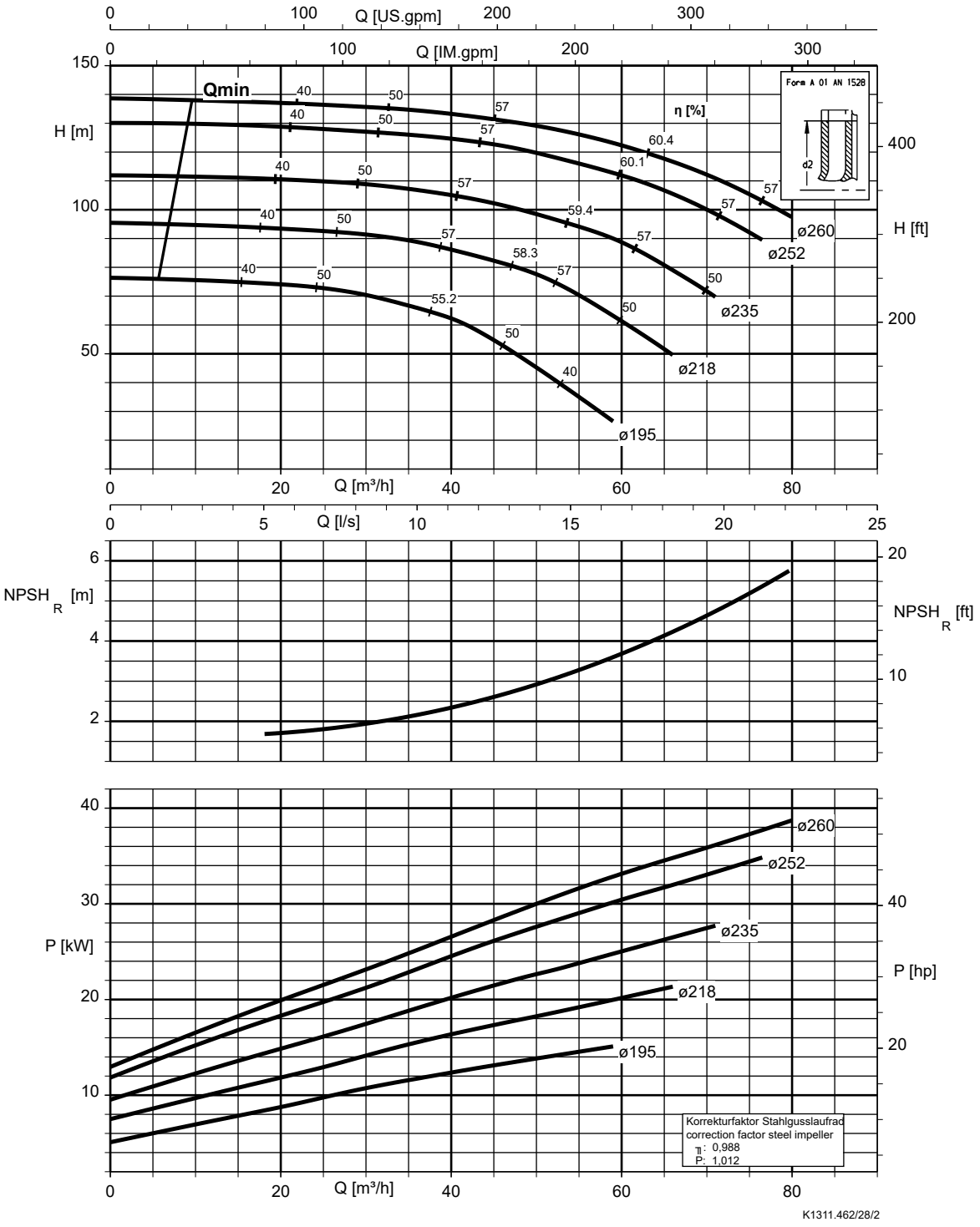
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 065-040-250, n = 3500 t/min

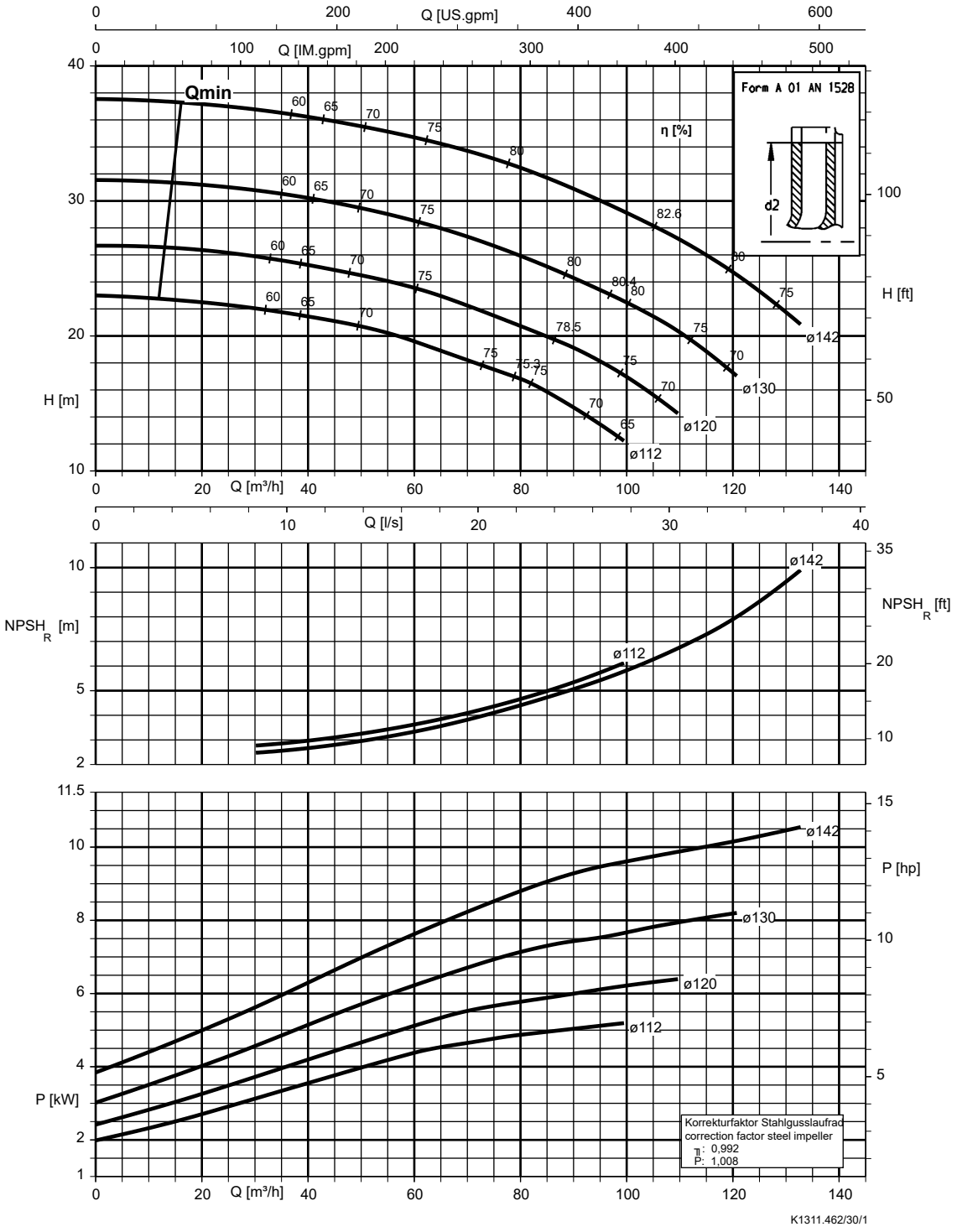
Etabloc



1311.46/11-FR

Etanorm 065-050-125, n = 3500 t/min

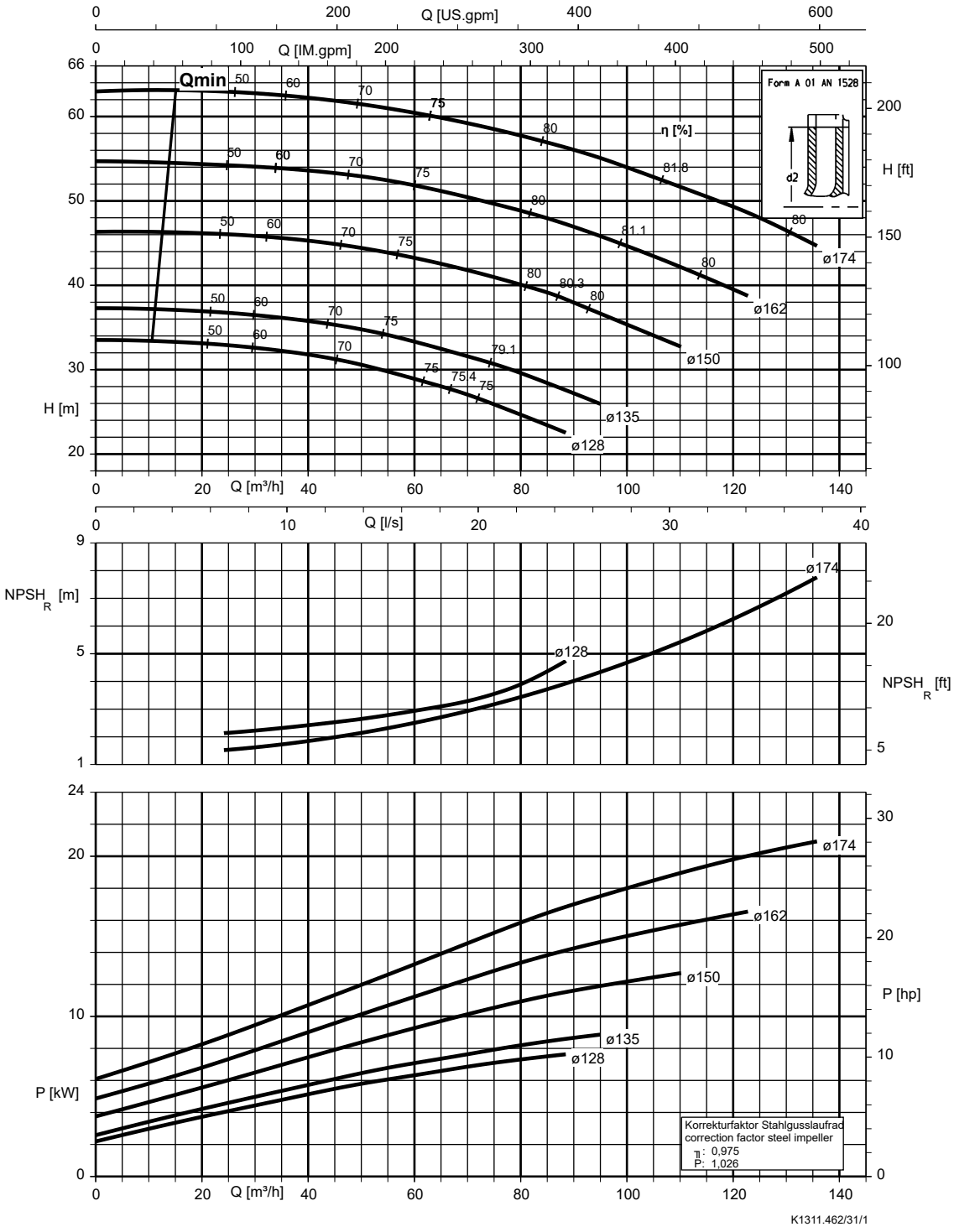
Etanorm V, Etabloc



1311.46/11-FR

Etanorm 065-050-160, n = 3500 t/min

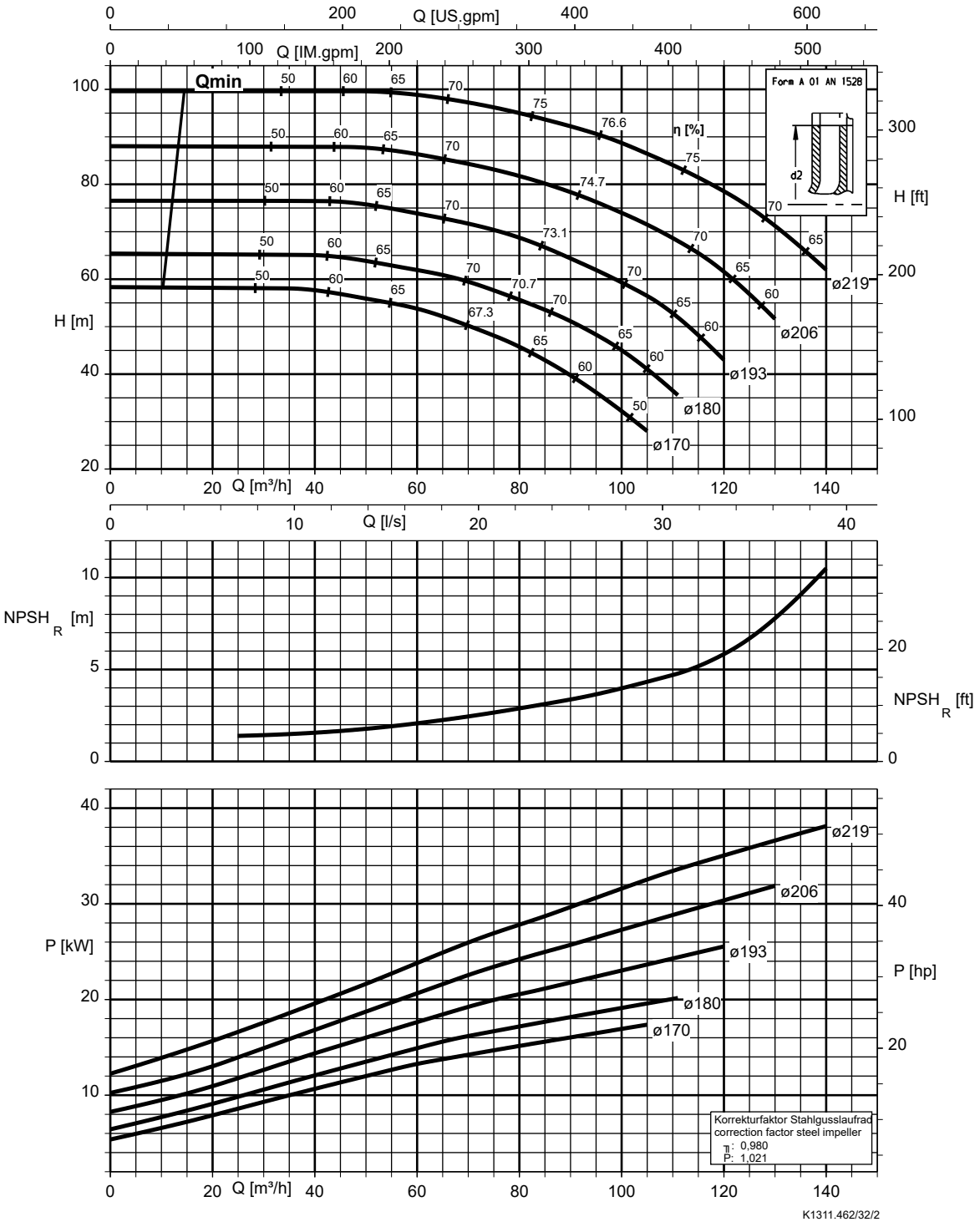
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 065-050-200, n = 3500 t/min

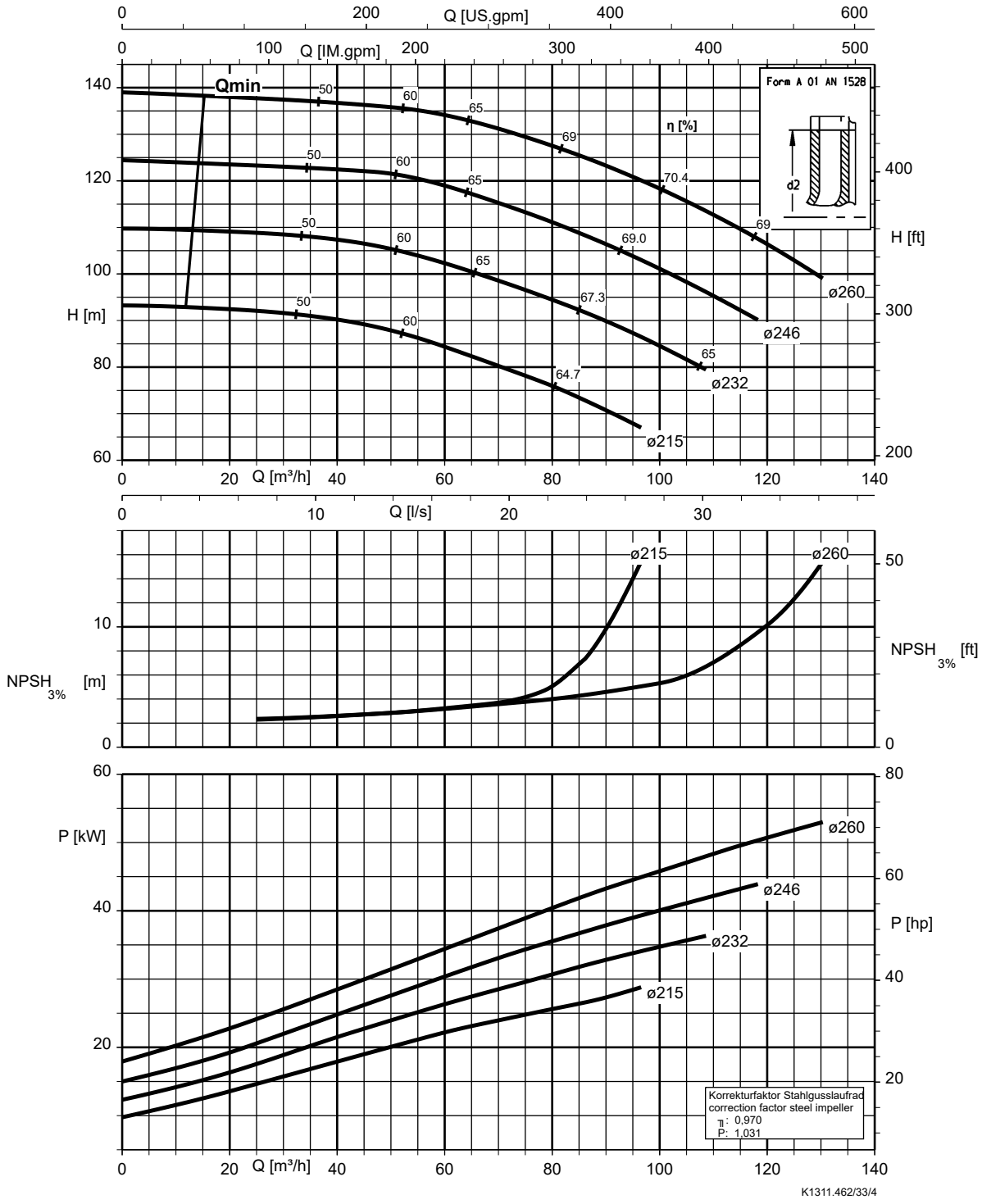
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 065-050-250, n = 3500 t/min

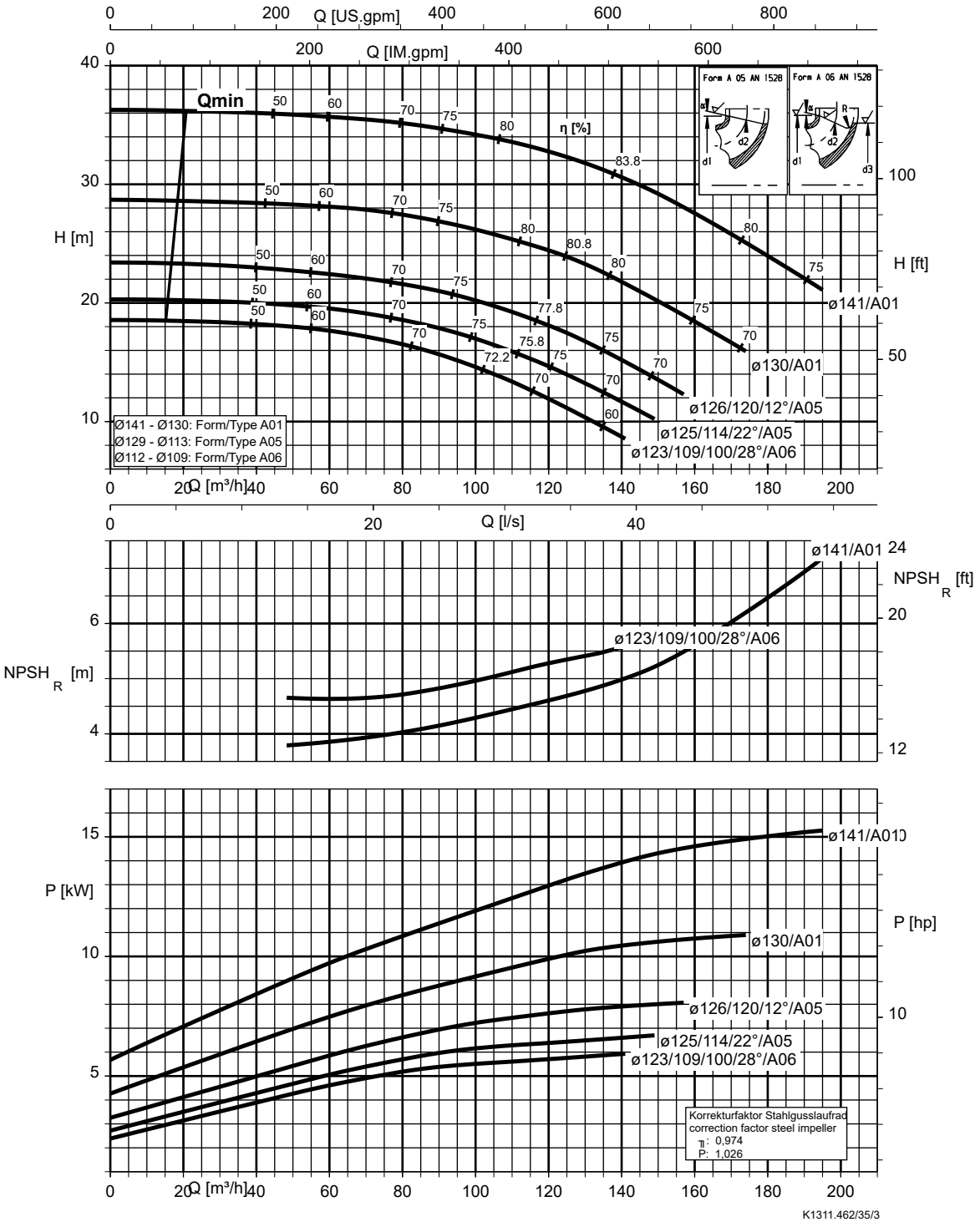
Etabloc



1311.46/11-FR

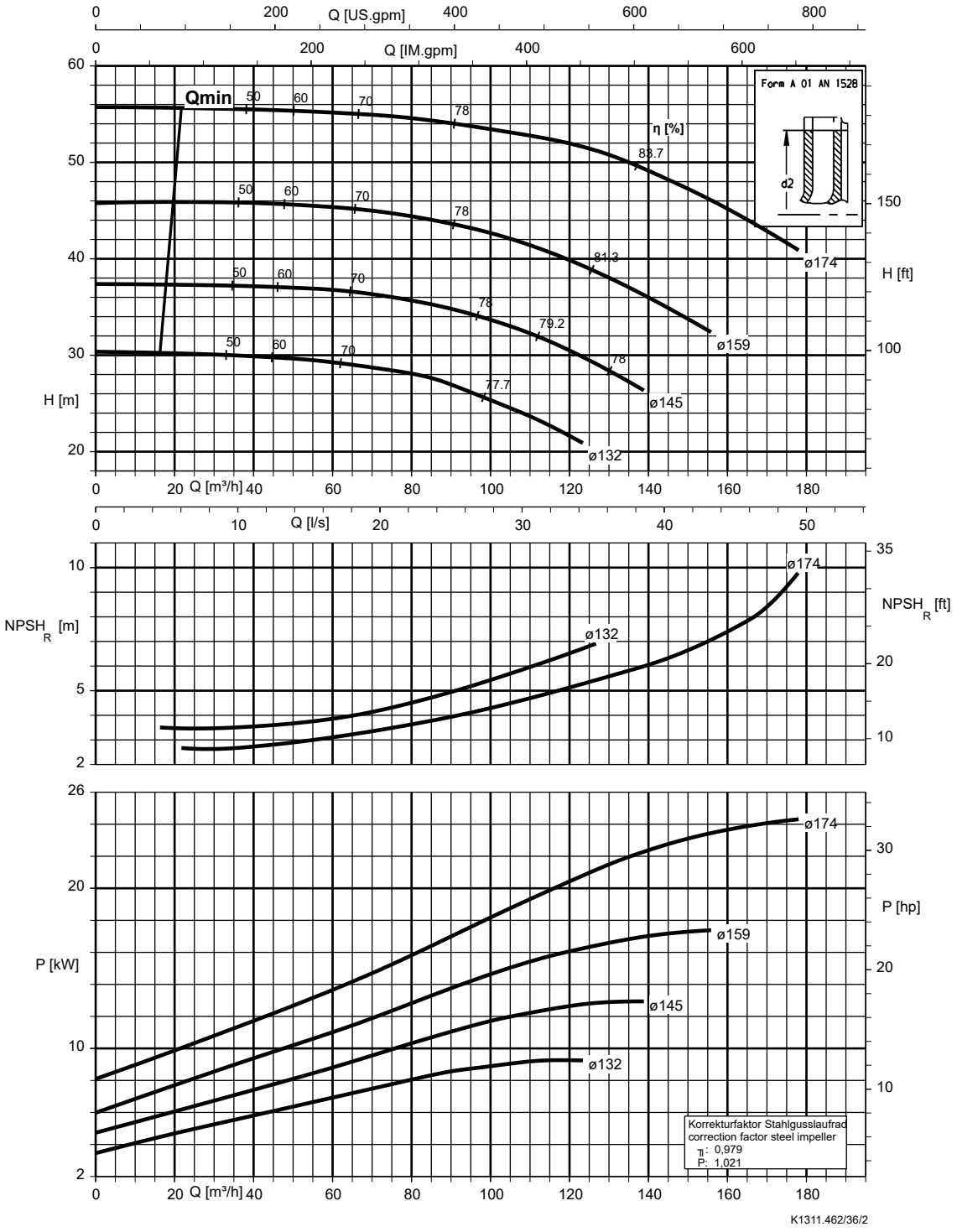
Etanorm 080-065-125, n = 3500 t/min

Etanorm V, Etabloc



Etanorm 080-065-160, n = 3500 t/min

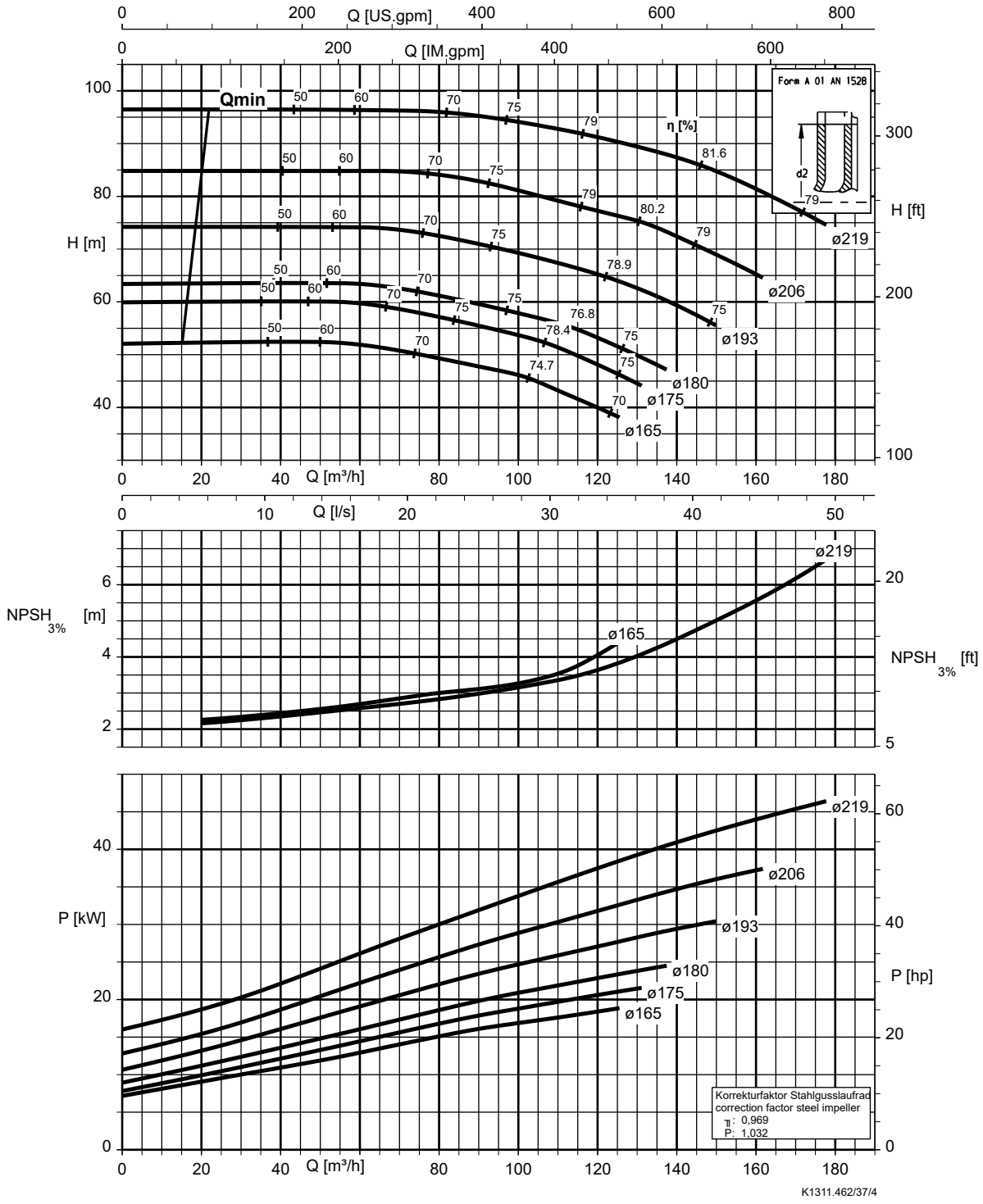
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 080-065-200, n = 3500 t/min

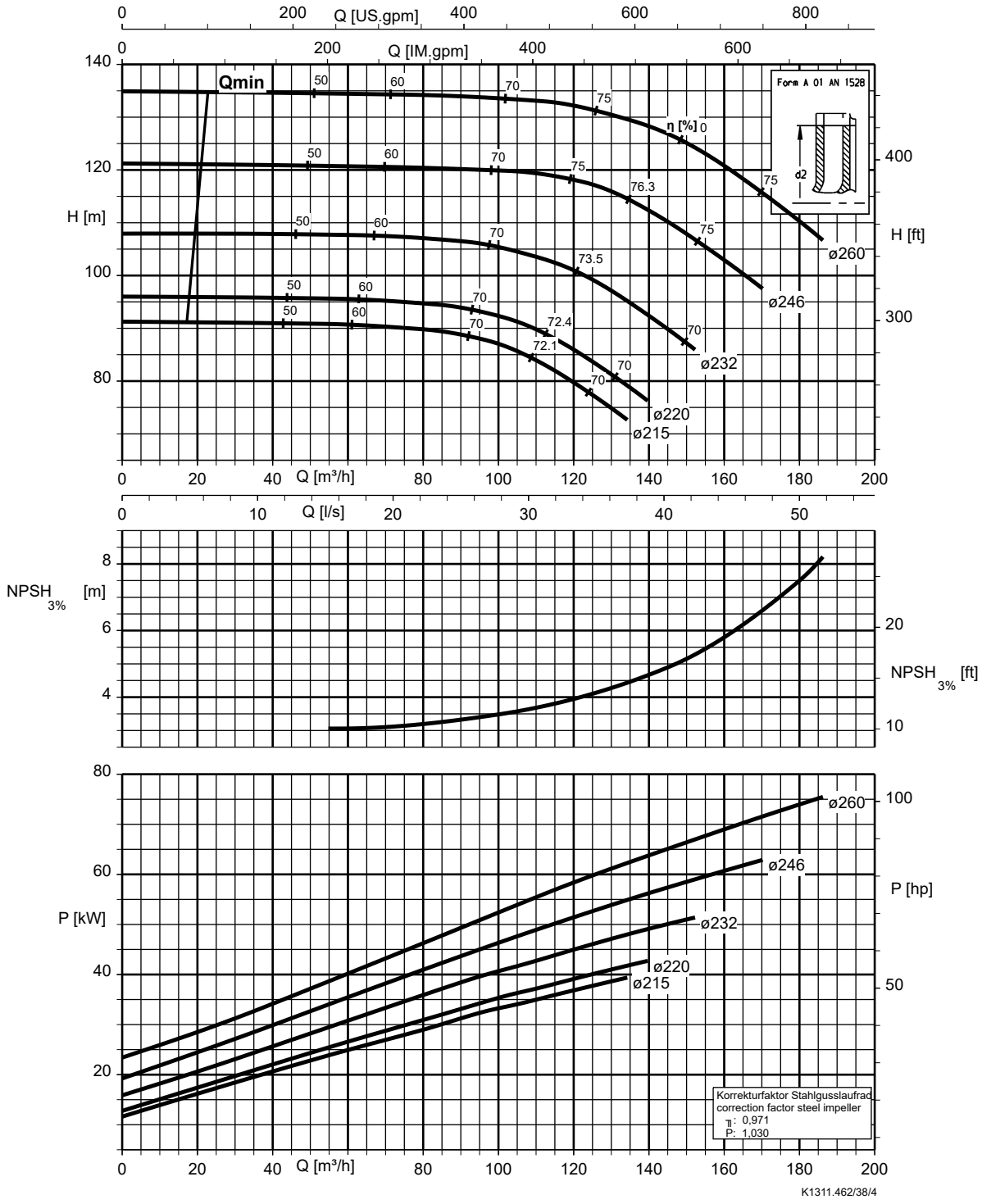
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 080-065-250, n = 3500 t/min

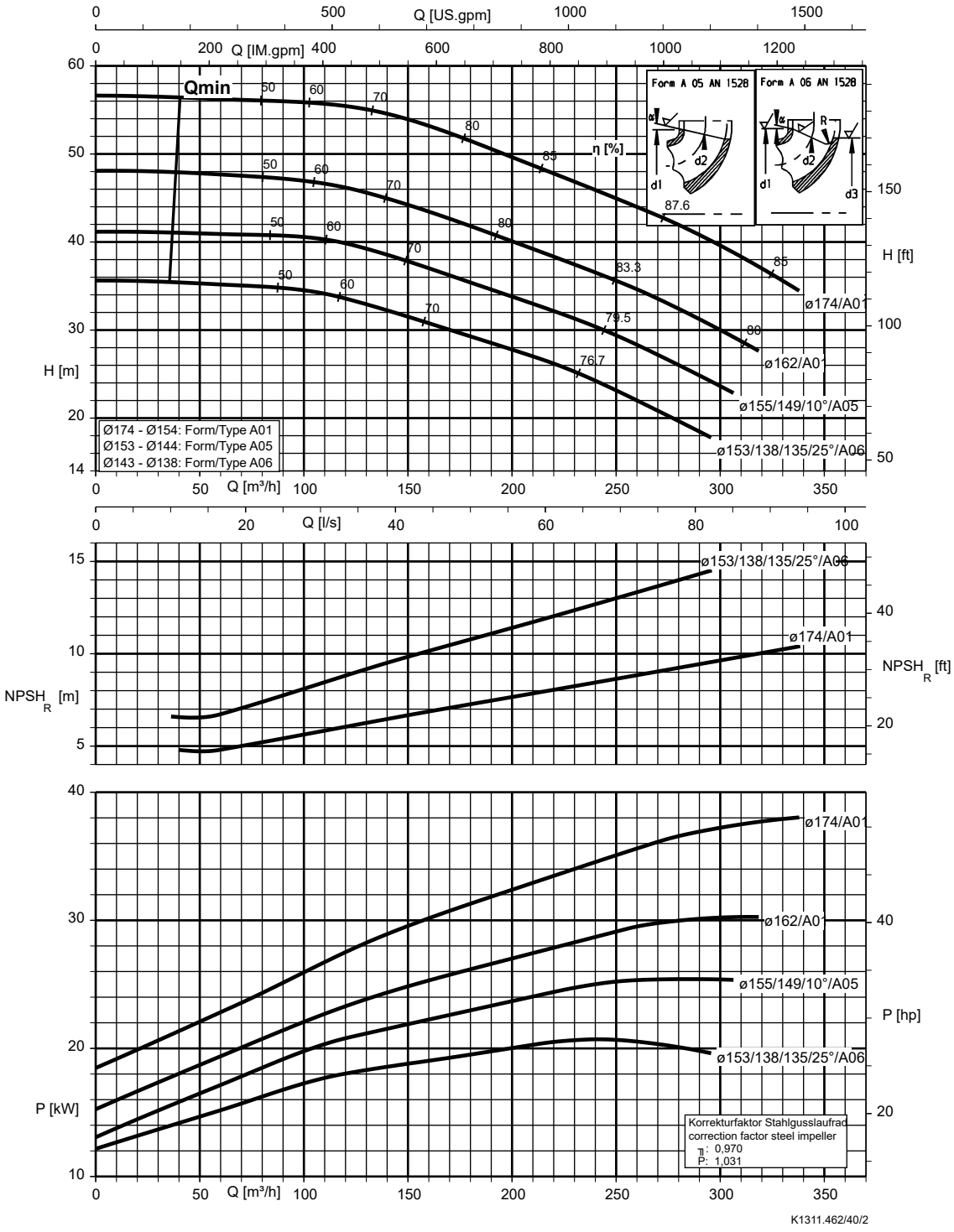
Etabloc



1311.46/11-FR

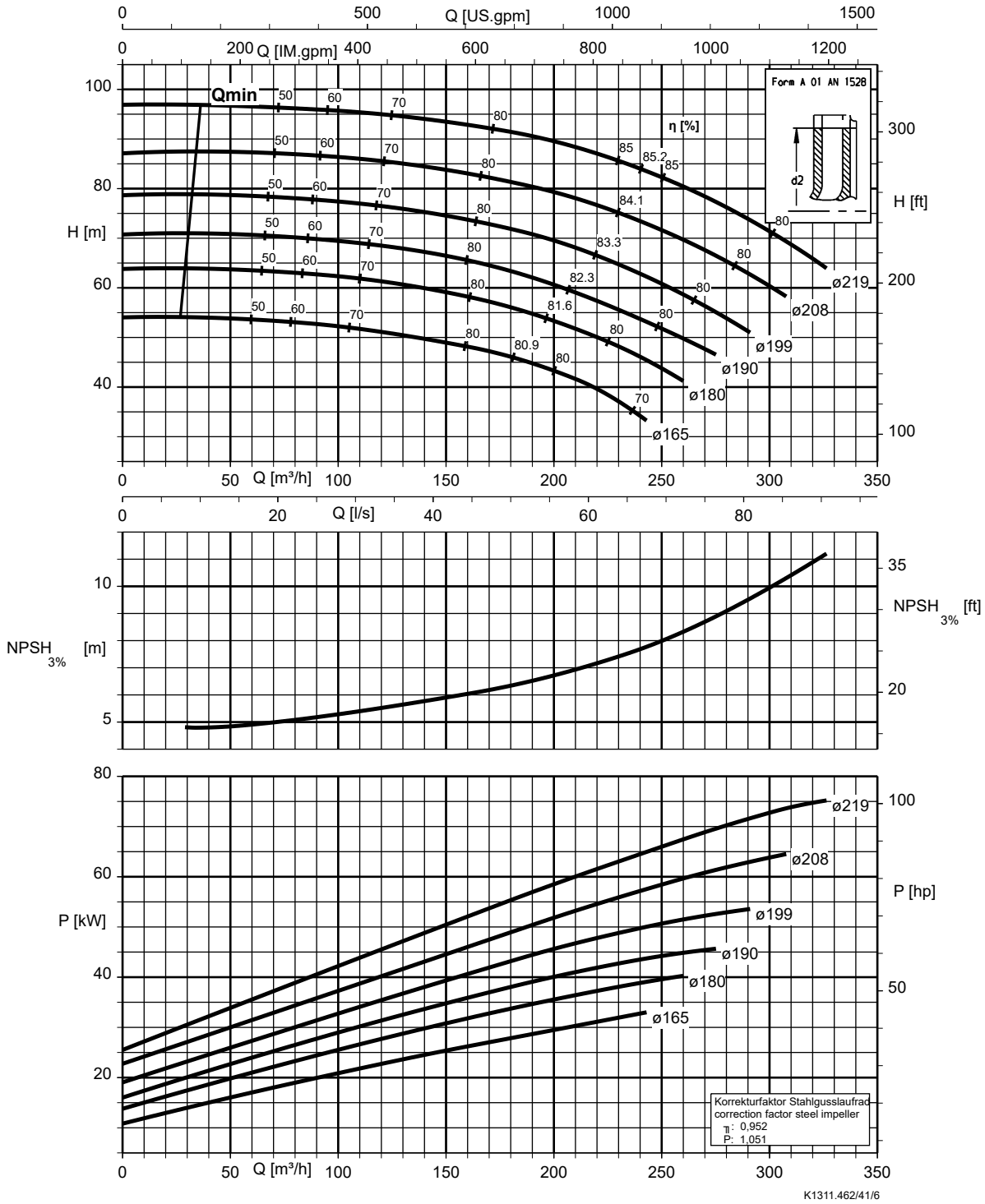
Etanorm 100-080-160, n = 3500 t/min

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



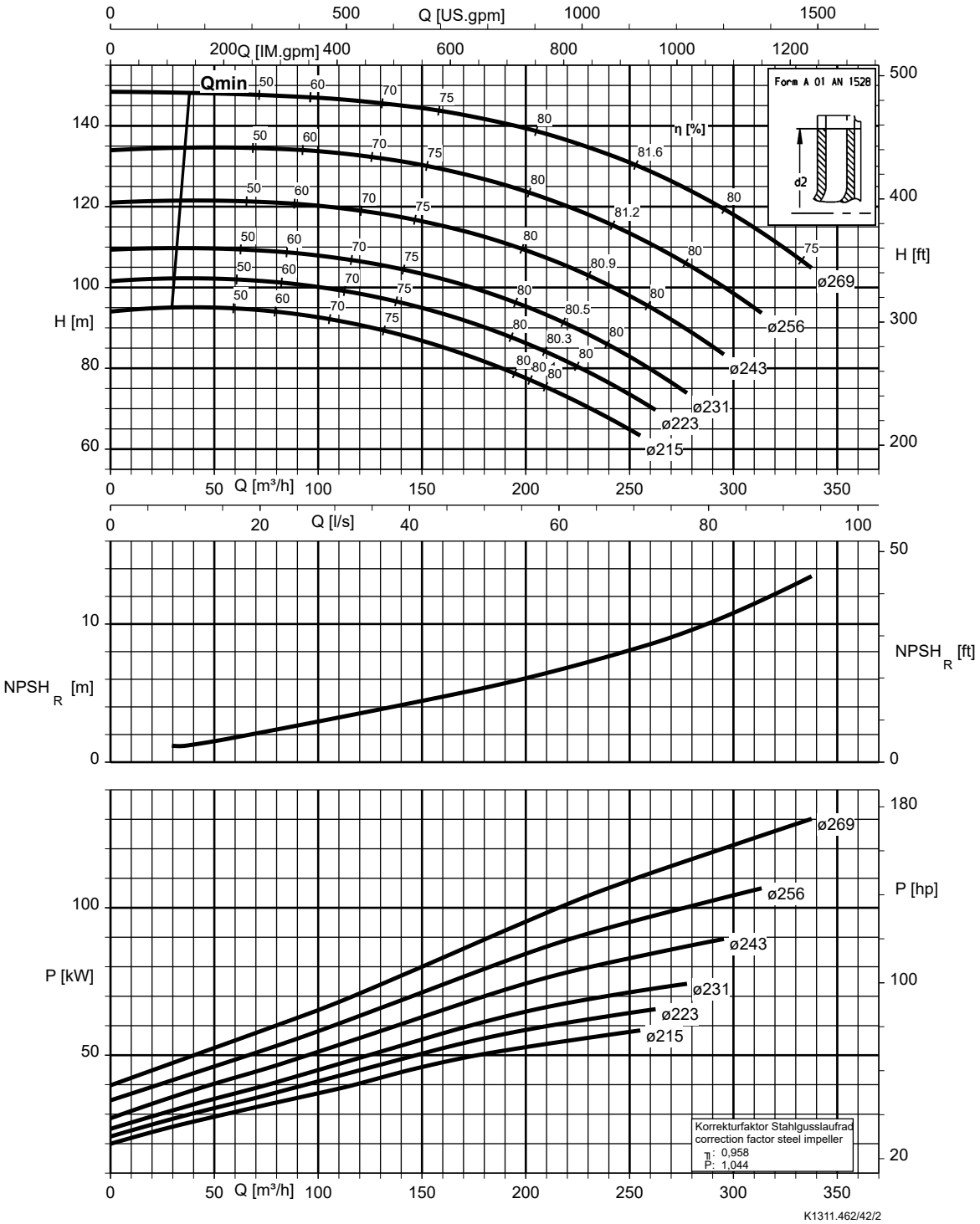
Etanorm 100-080-200, n = 3500 t/min

Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

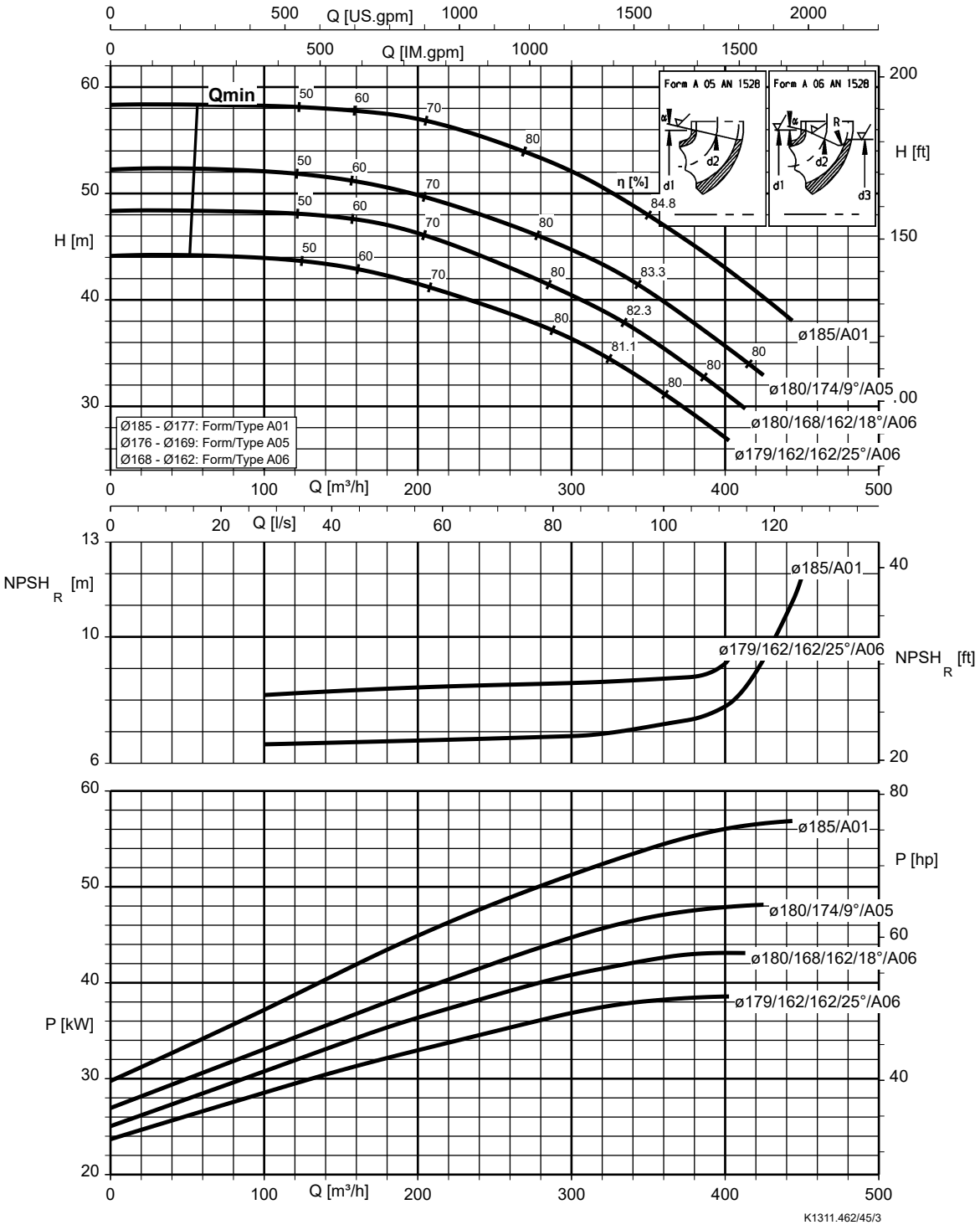
Etanorm 100-080-250, n = 3500 min^{-1}



1311.46/11-FR

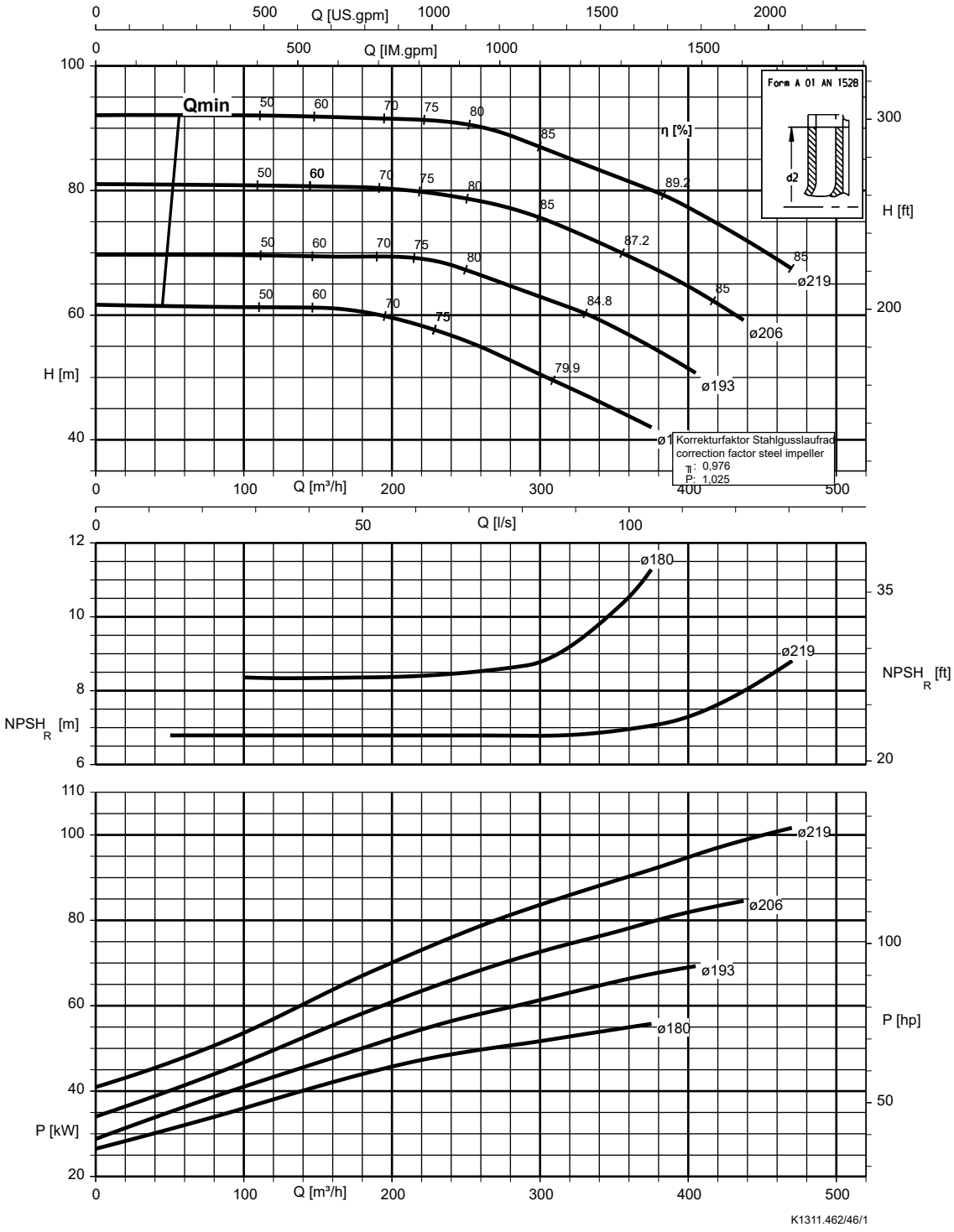
Etanorm 125-100-160, n = 3500 t/min

Etanorm SYT, Etanorm V, Etabloc



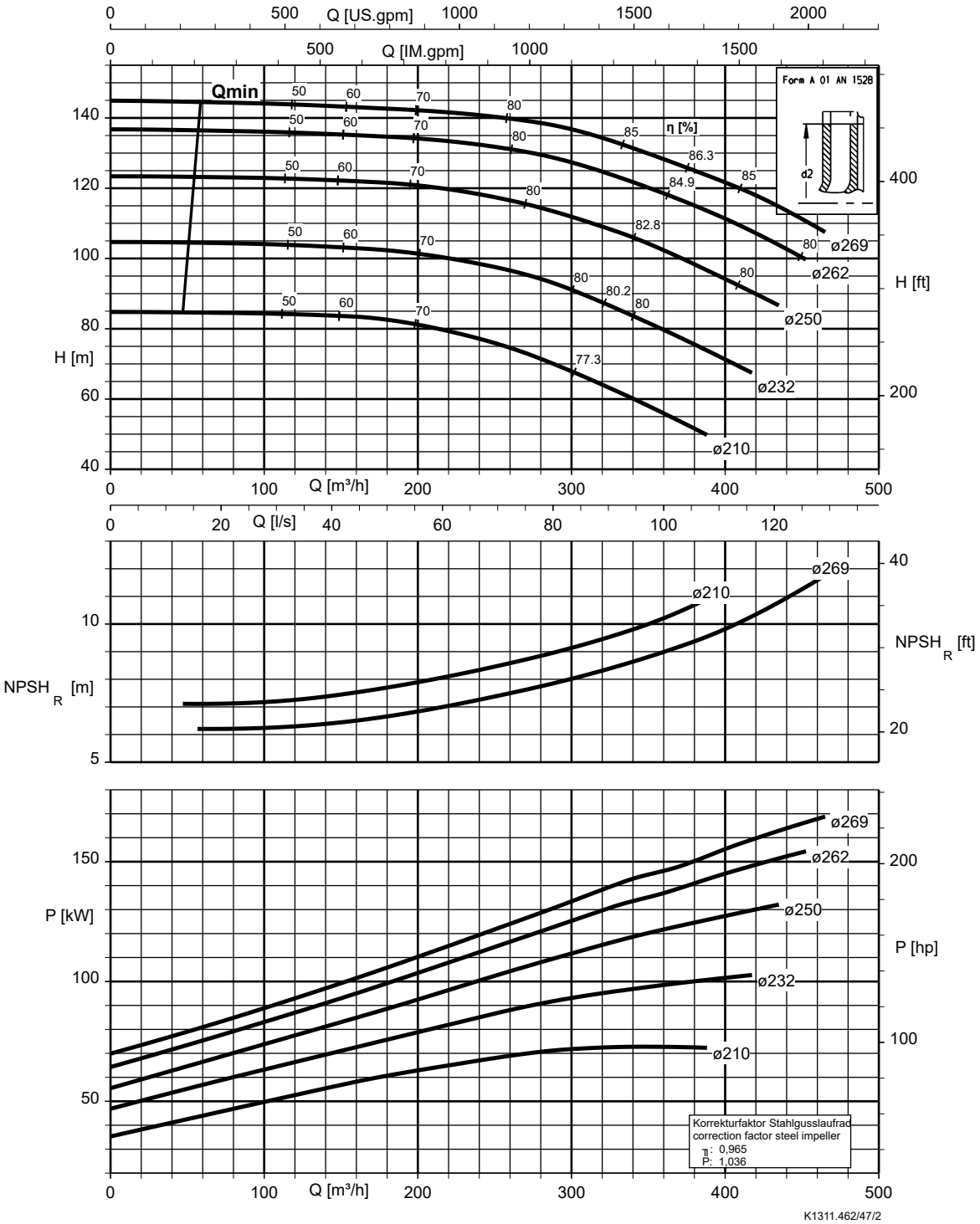
Etanorm 125-100-200, n = 3500 min^{-1}

Etanorm SYT, Etanorm V



1311.46/11-FR

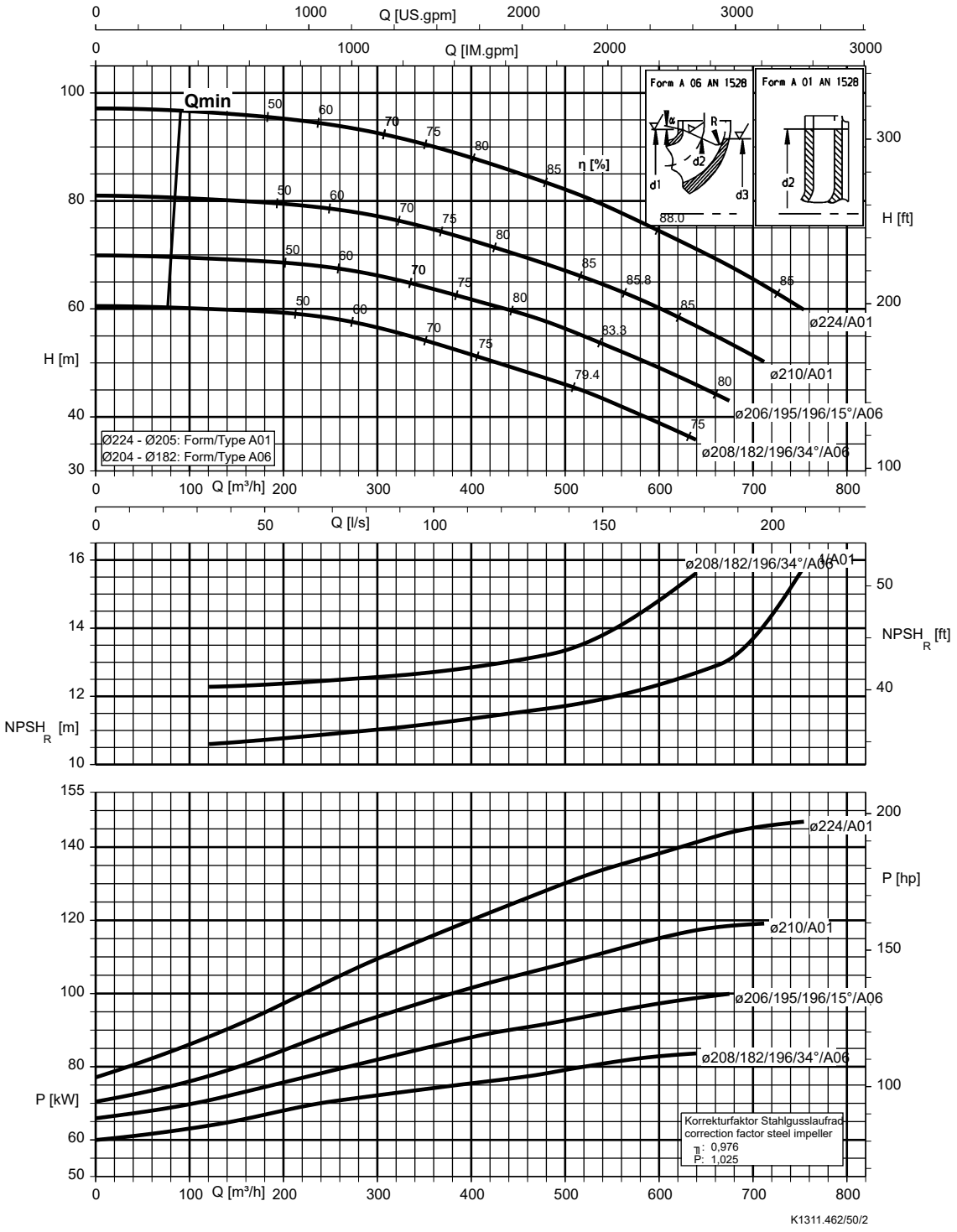
Etanorm 125-100-250, n = 3500 min^{-1}



1311.46/11-FR

Etanorm 150-125-200, n = 3500 min^{-1}

Etanorm SYT, Etanorm V

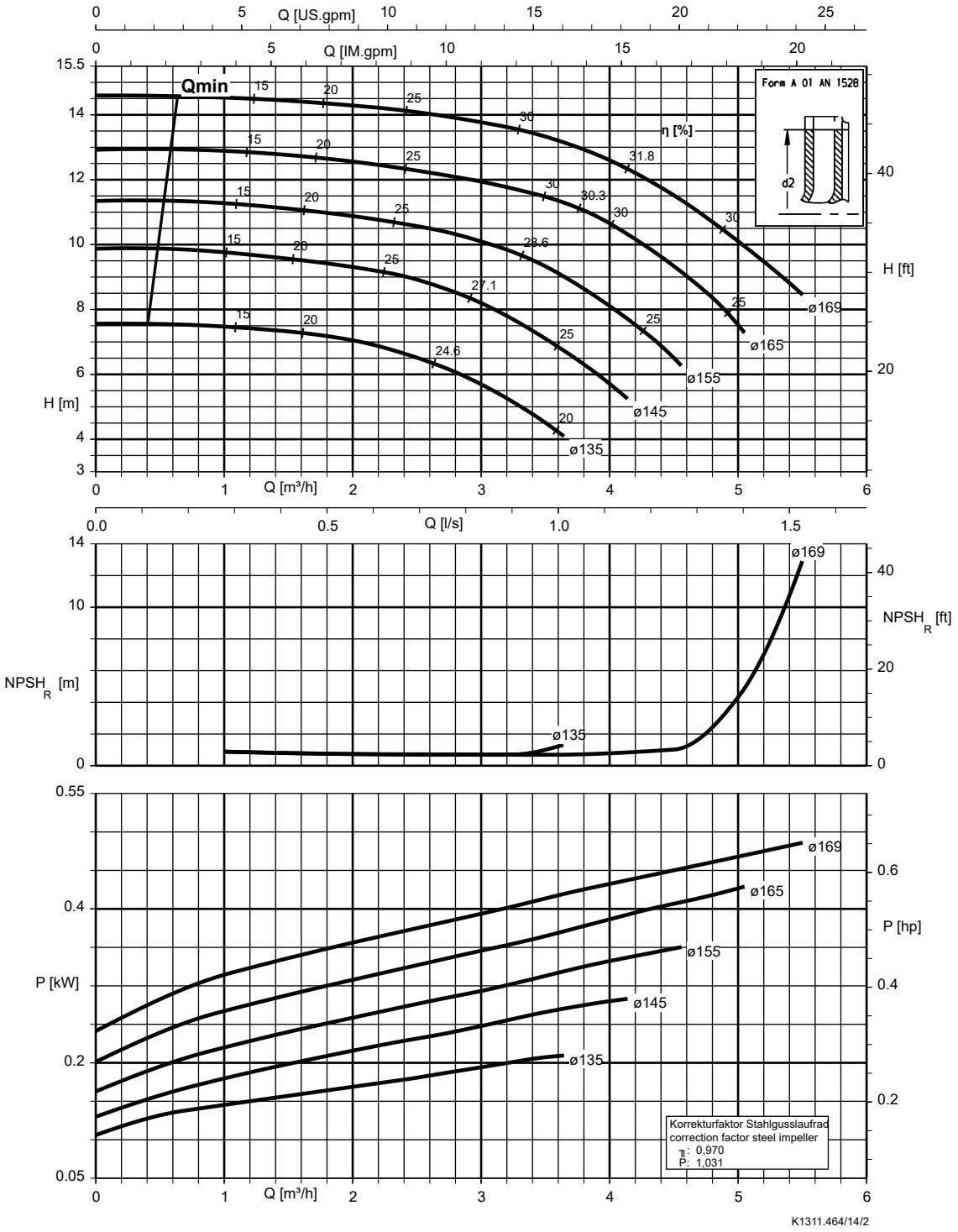


1311.46/11-FR

n = 1750 t/min

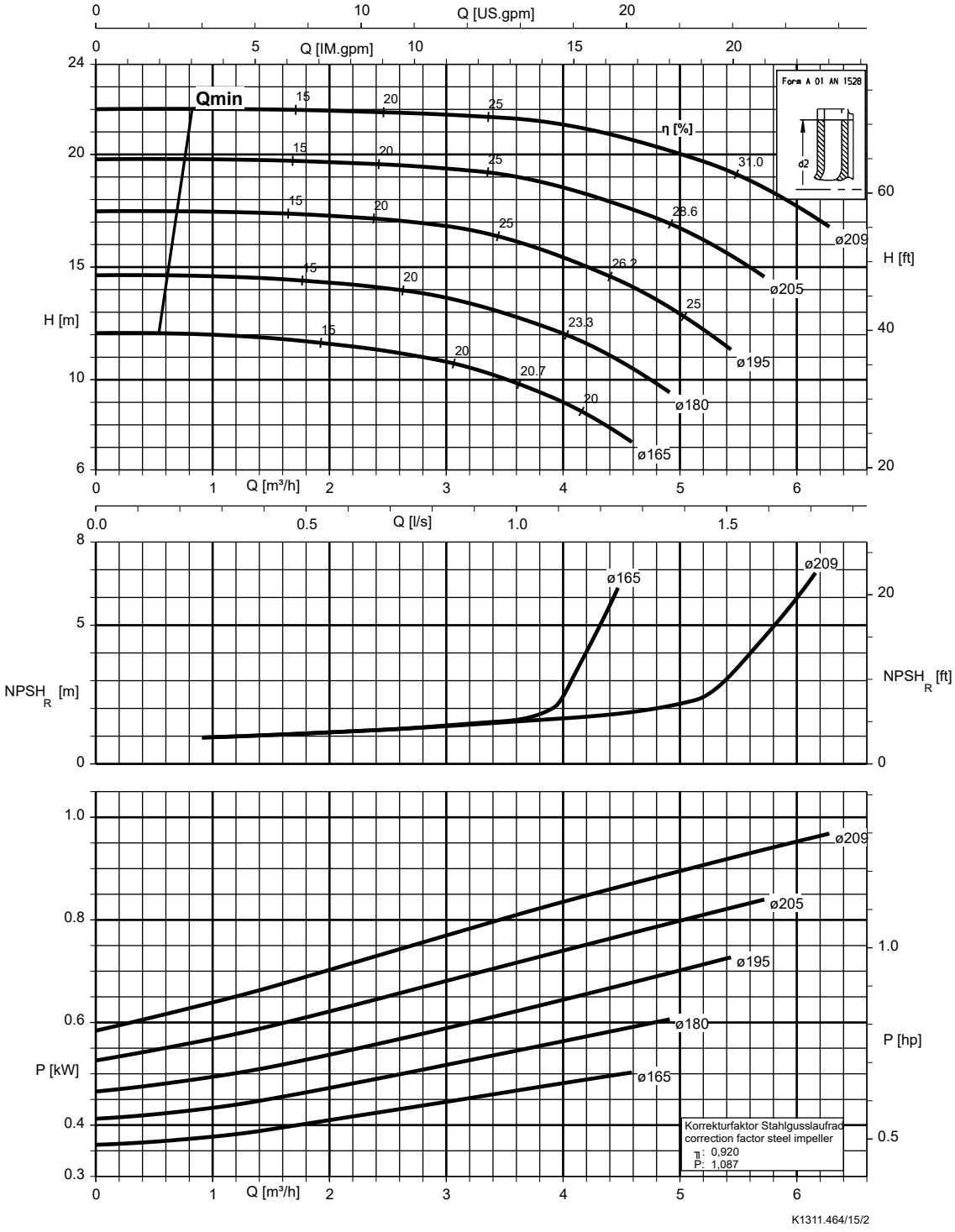
Etanorm 040-025-160, n = 1750 t/min

Etanorm SYT, Etabloc, Etabloc SYT



Etanorm 040-025-200, n = 1750 t/min

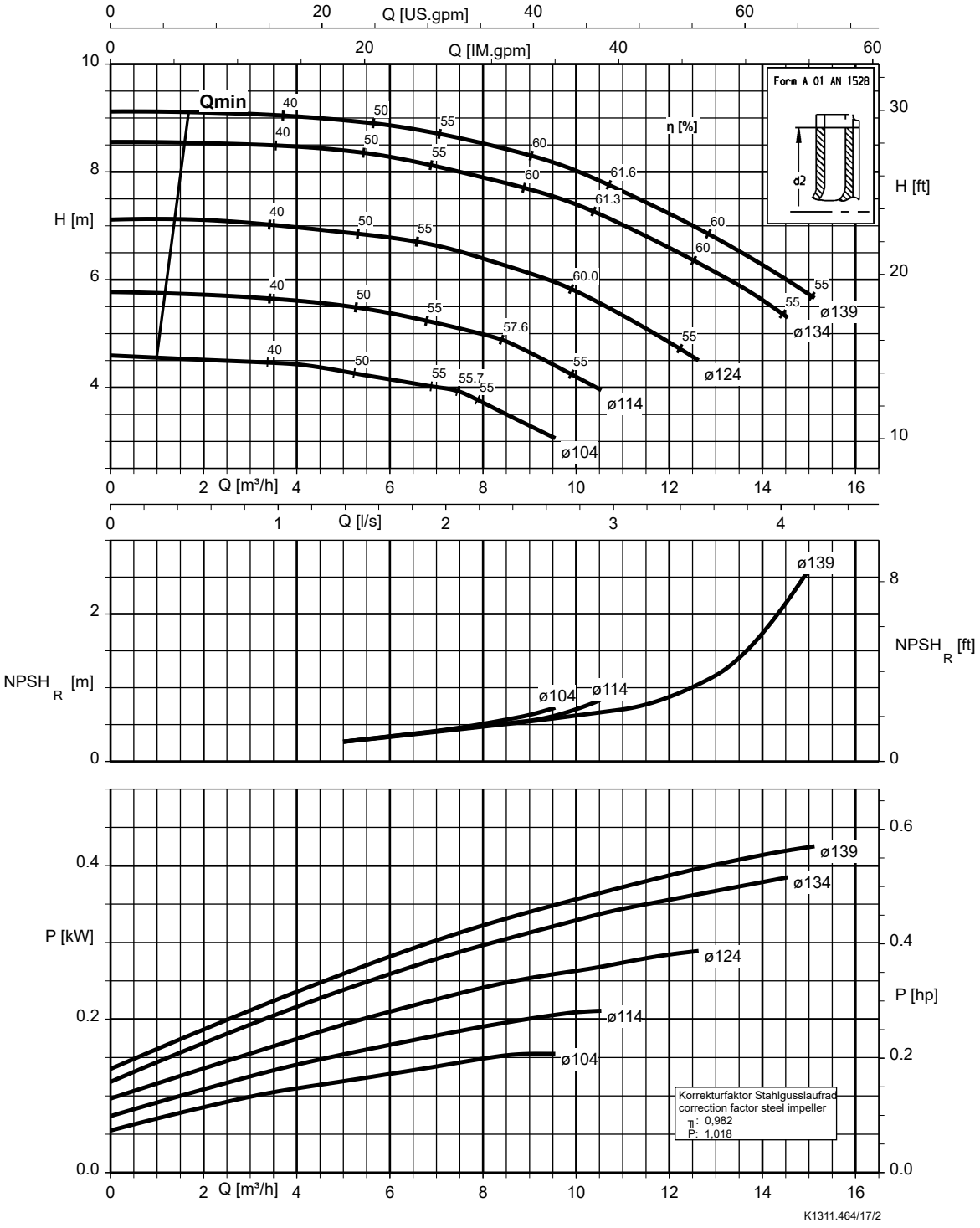
Etanorm SYT, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 050-032-125.1, n = 1750 t/min

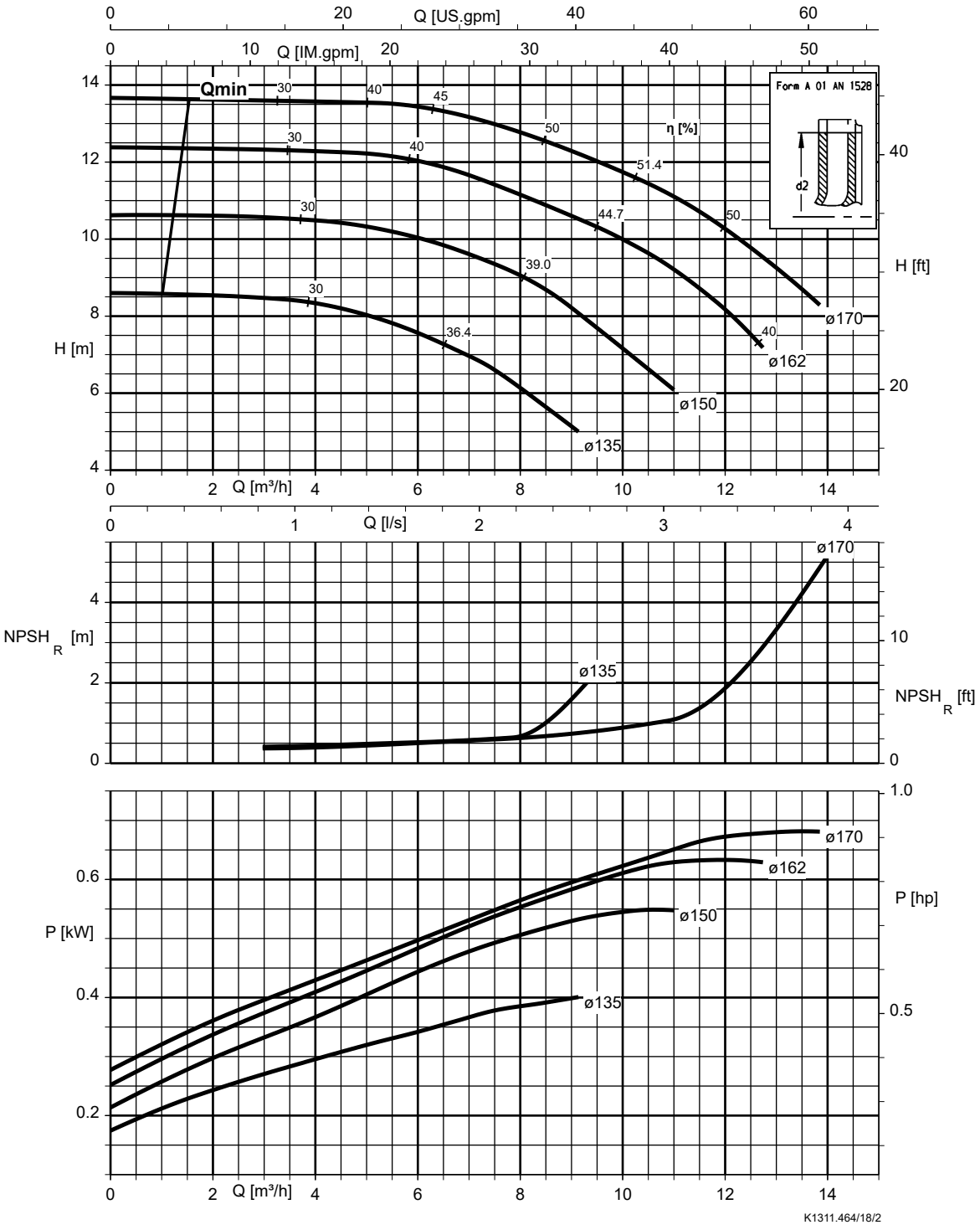
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 050-032-160.1, n = 1750 t/min

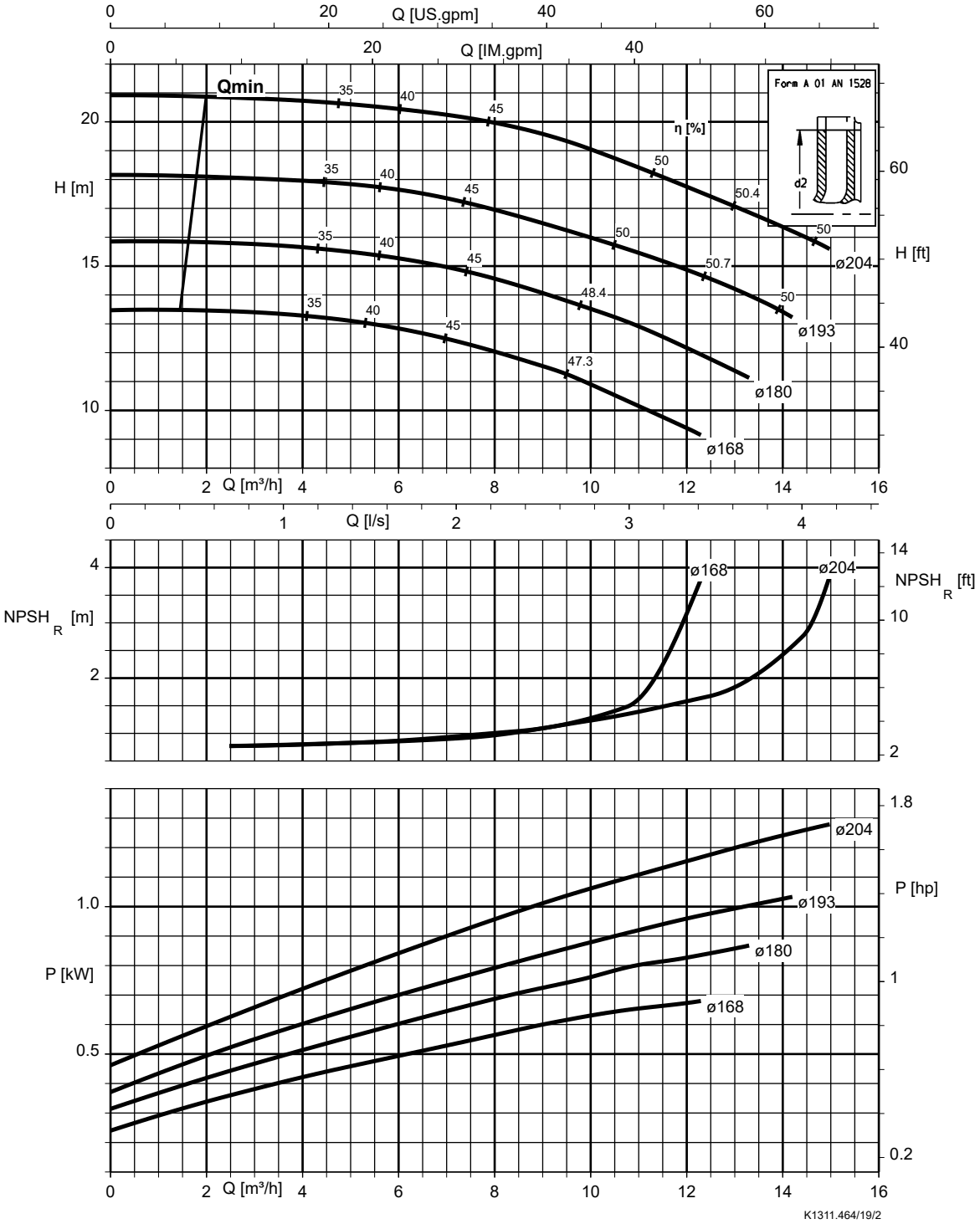
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 050-032-200.1, n = 1750 t/min

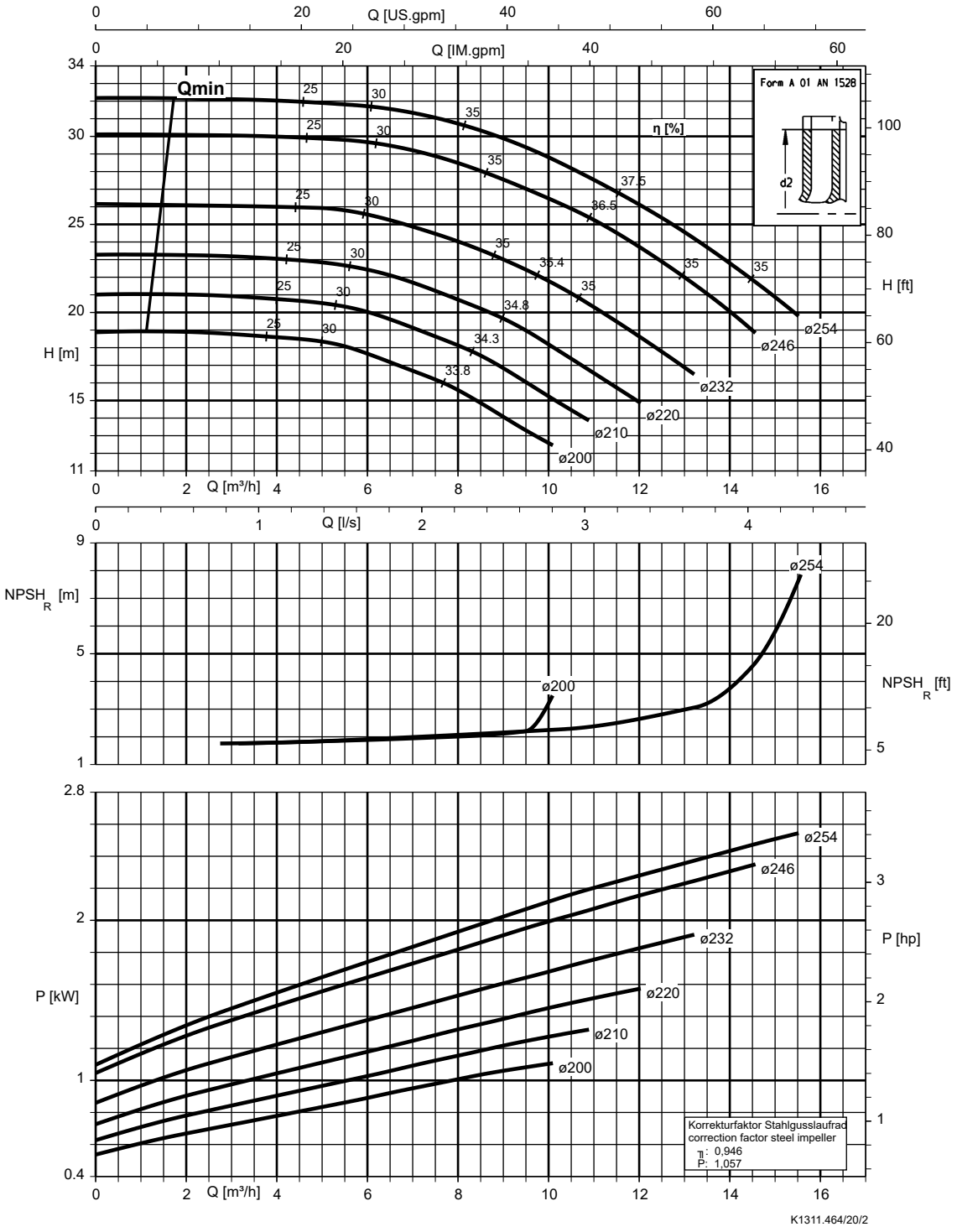
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 050-032-250.1, n = 1750 t/min

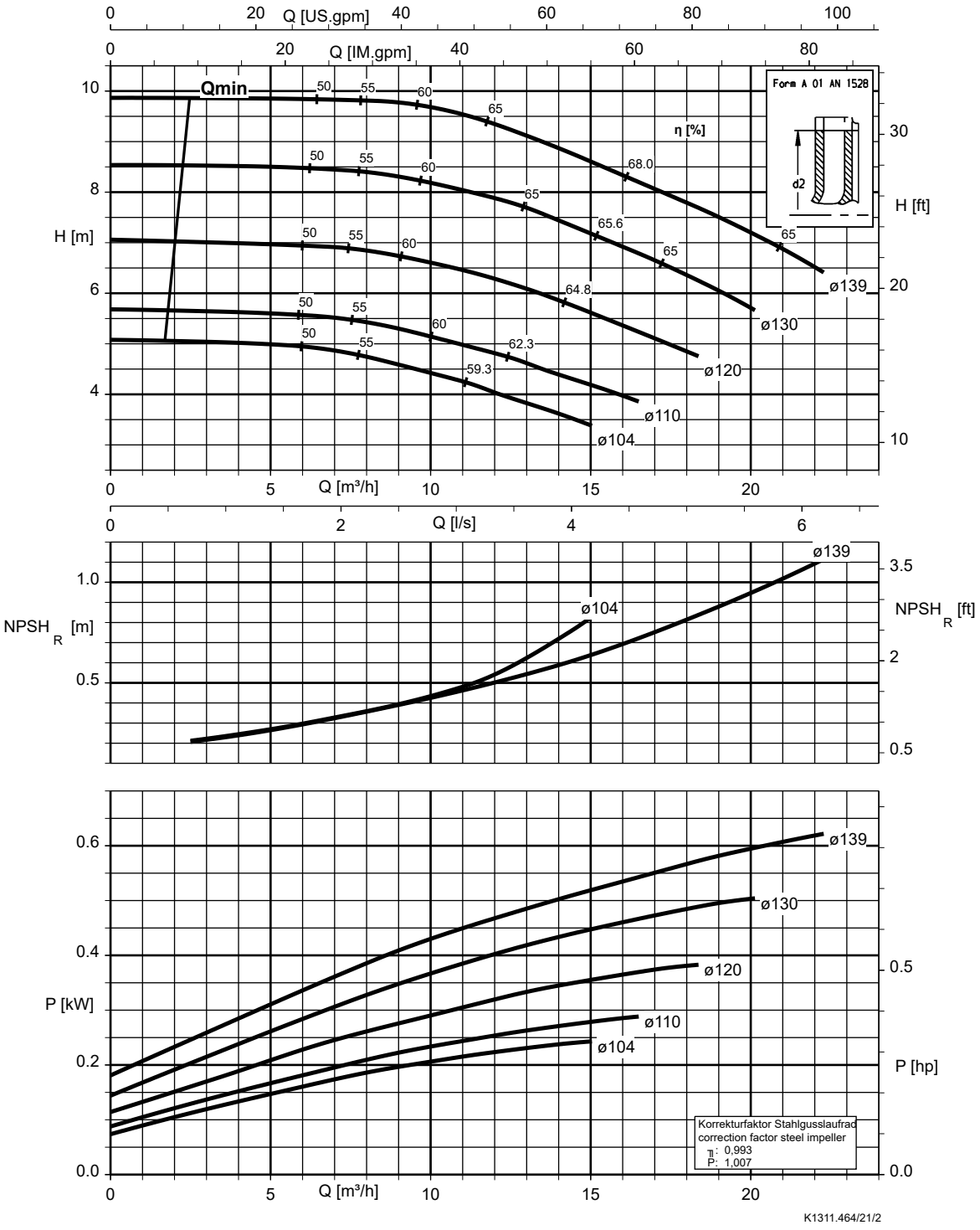
Etanorm V, Etabloc



1311.46/11-FR

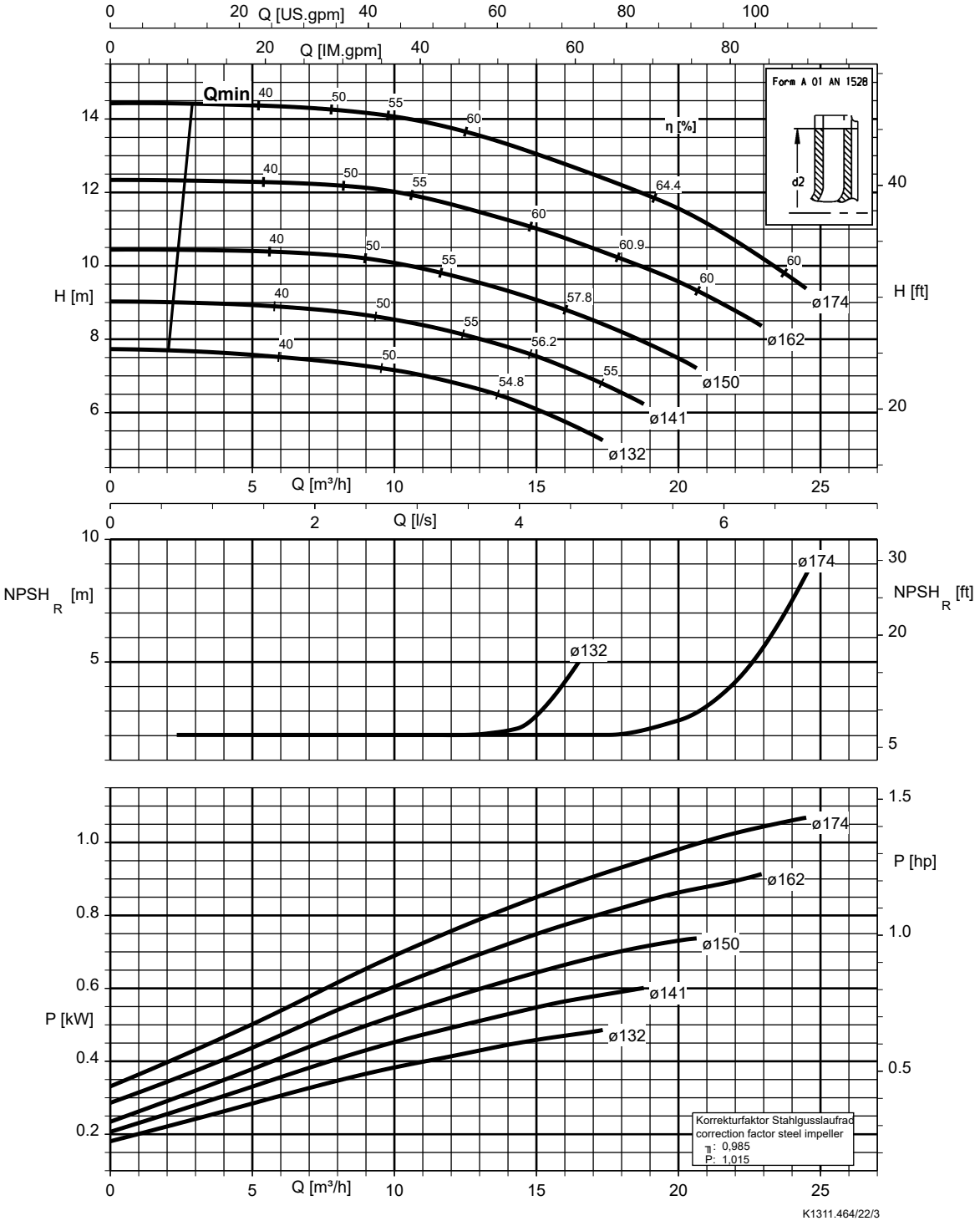
Etanorm 050-032-125, n = 1750 t/min

Etanorm V, Etabloc



Etanorm 050-032-160, n = 1750 t/min

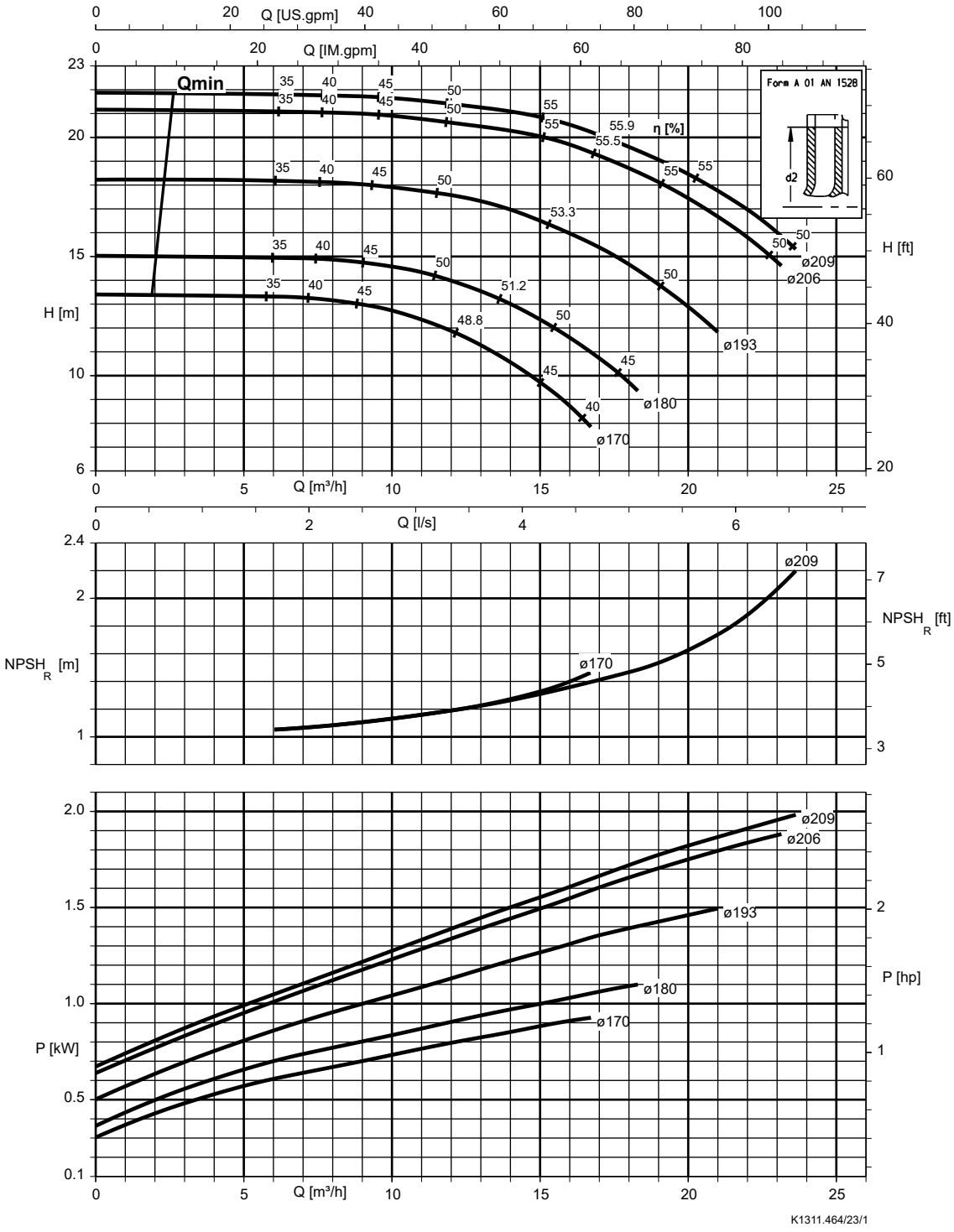
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

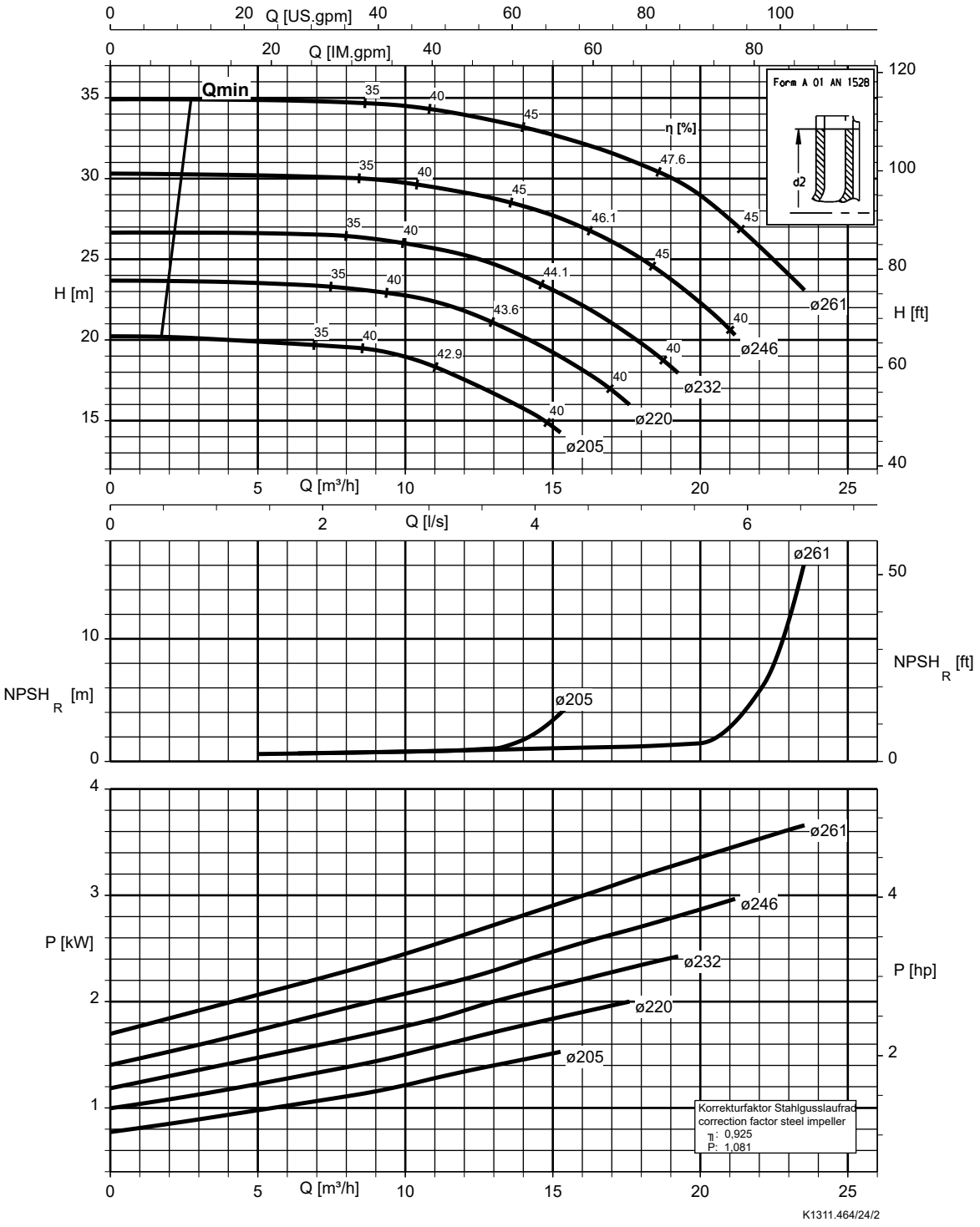
Etanorm 050-032-200, n = 1750 t/min

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 050-032-250, n = 1750 t/min

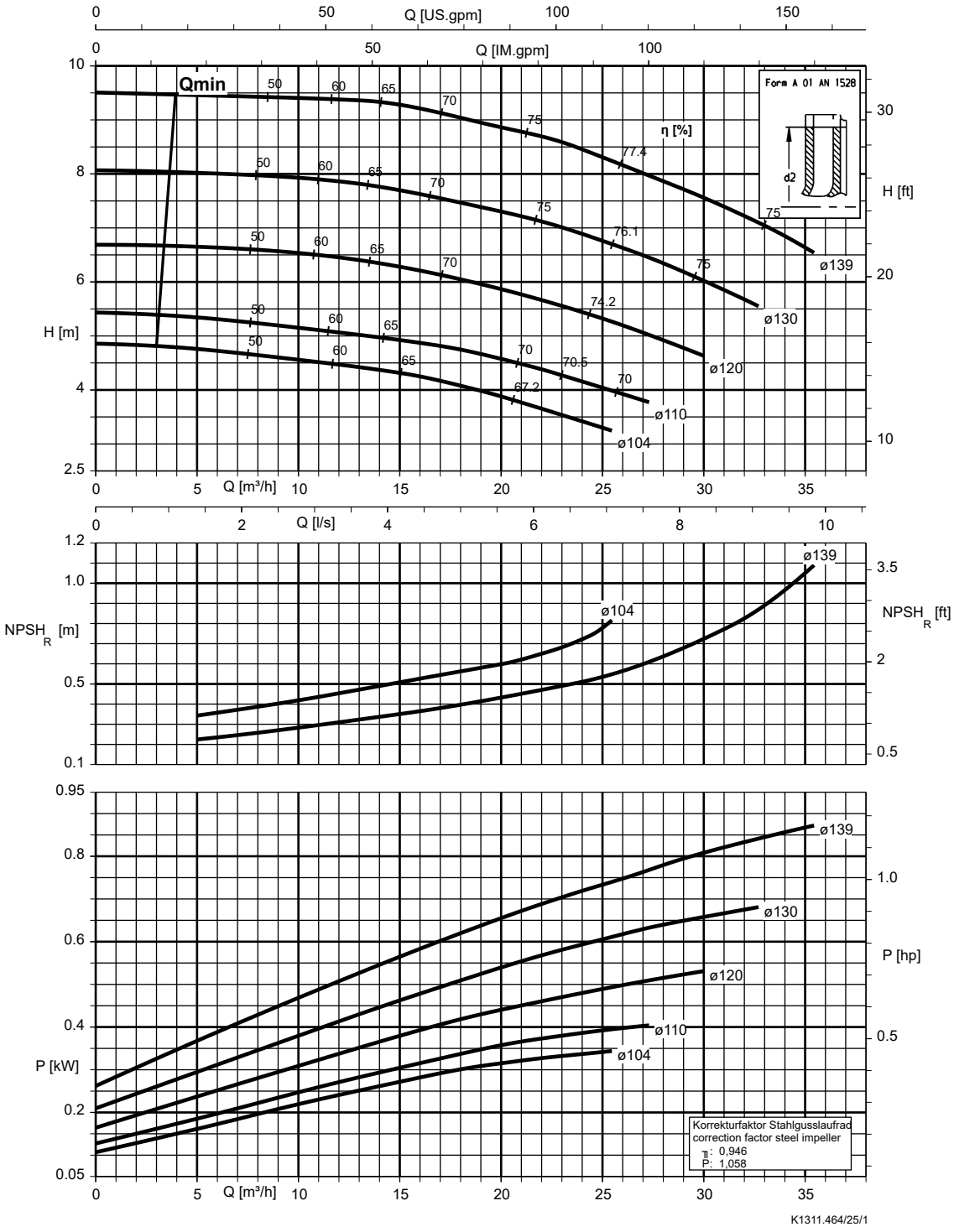
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

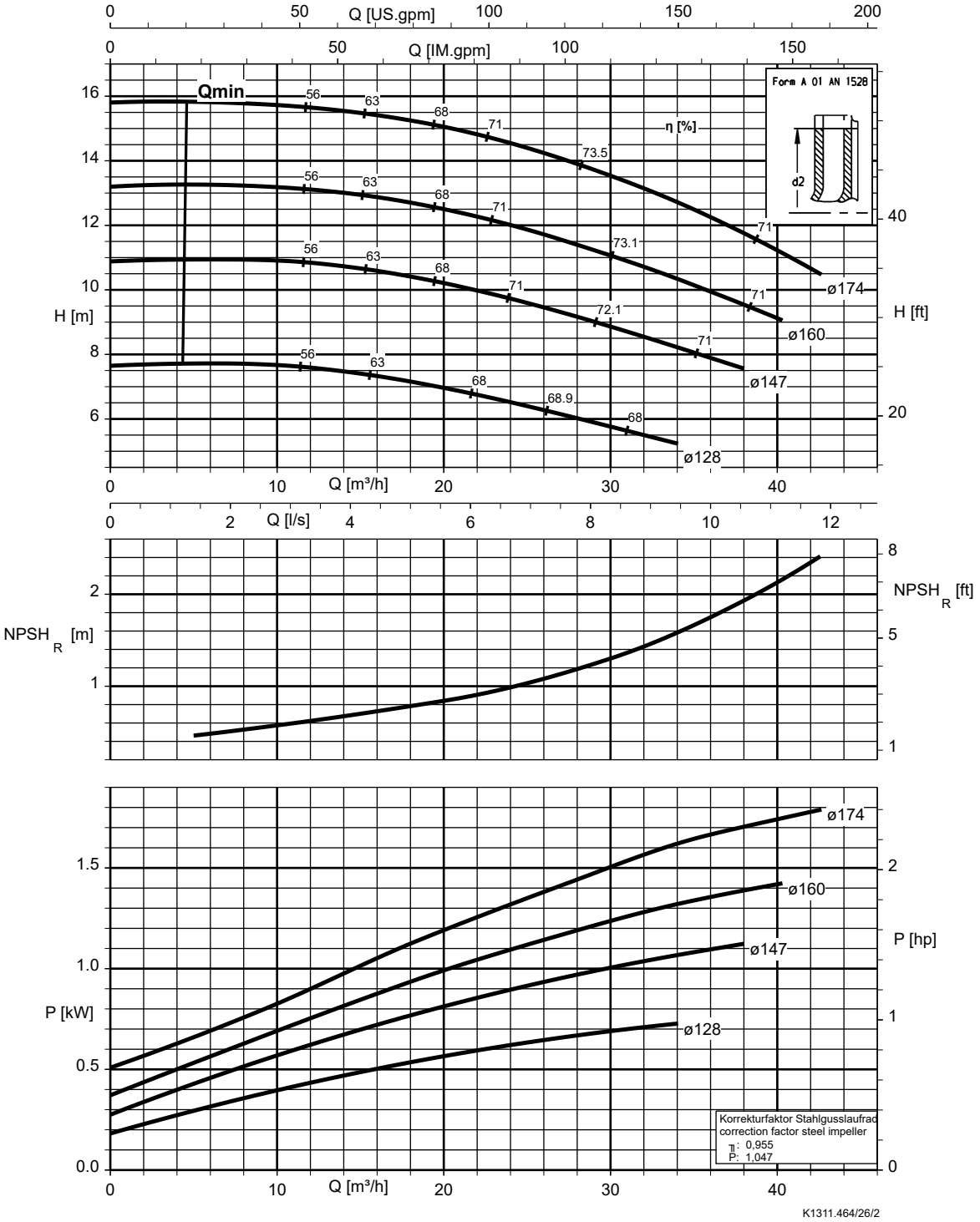
Etanorm 065-040-125, n = 1750 t/min

Etanorm V, Etabloc



Etanorm 065-040-160, n = 1750 t/min

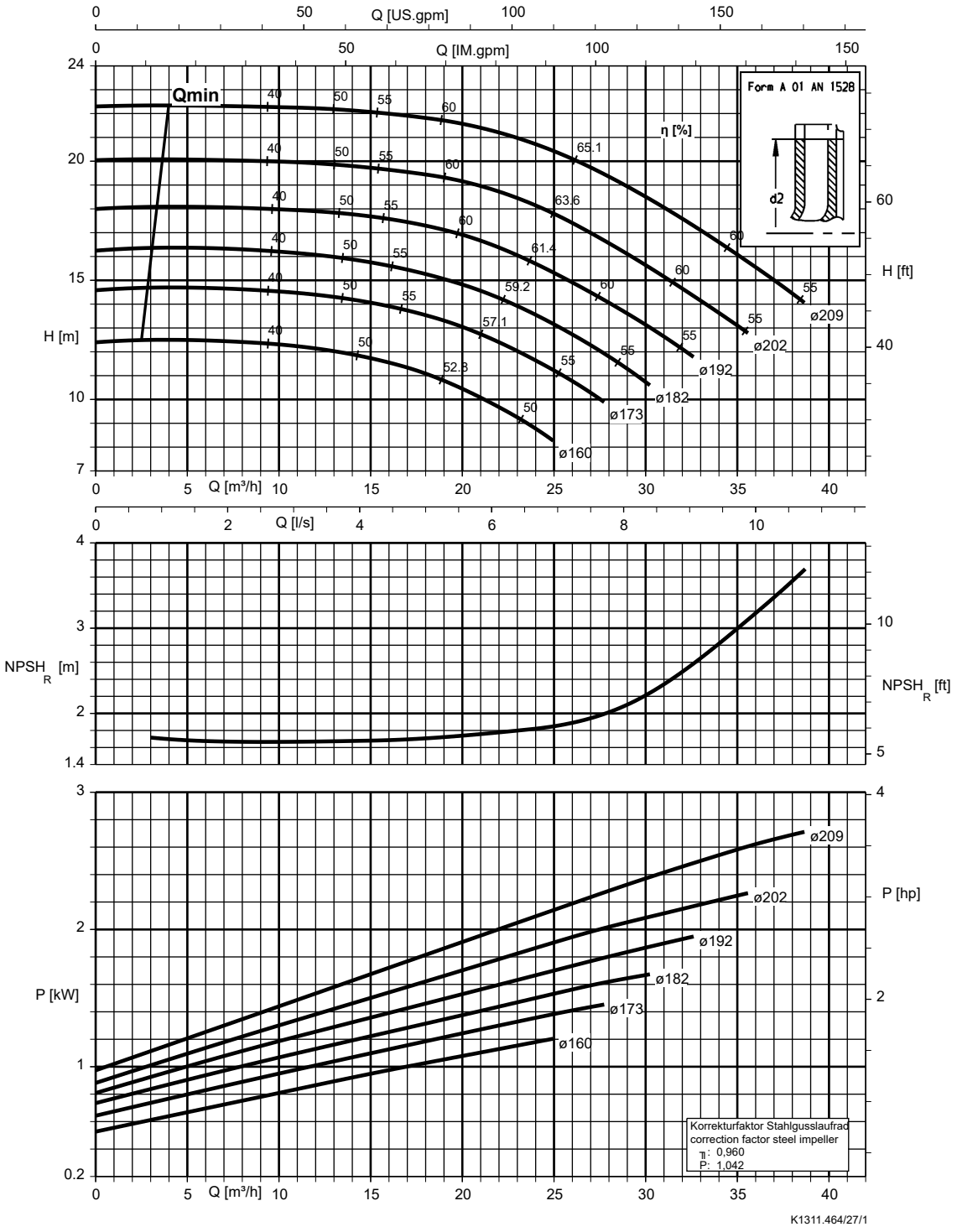
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 065-040-200, n = 1750 t/min

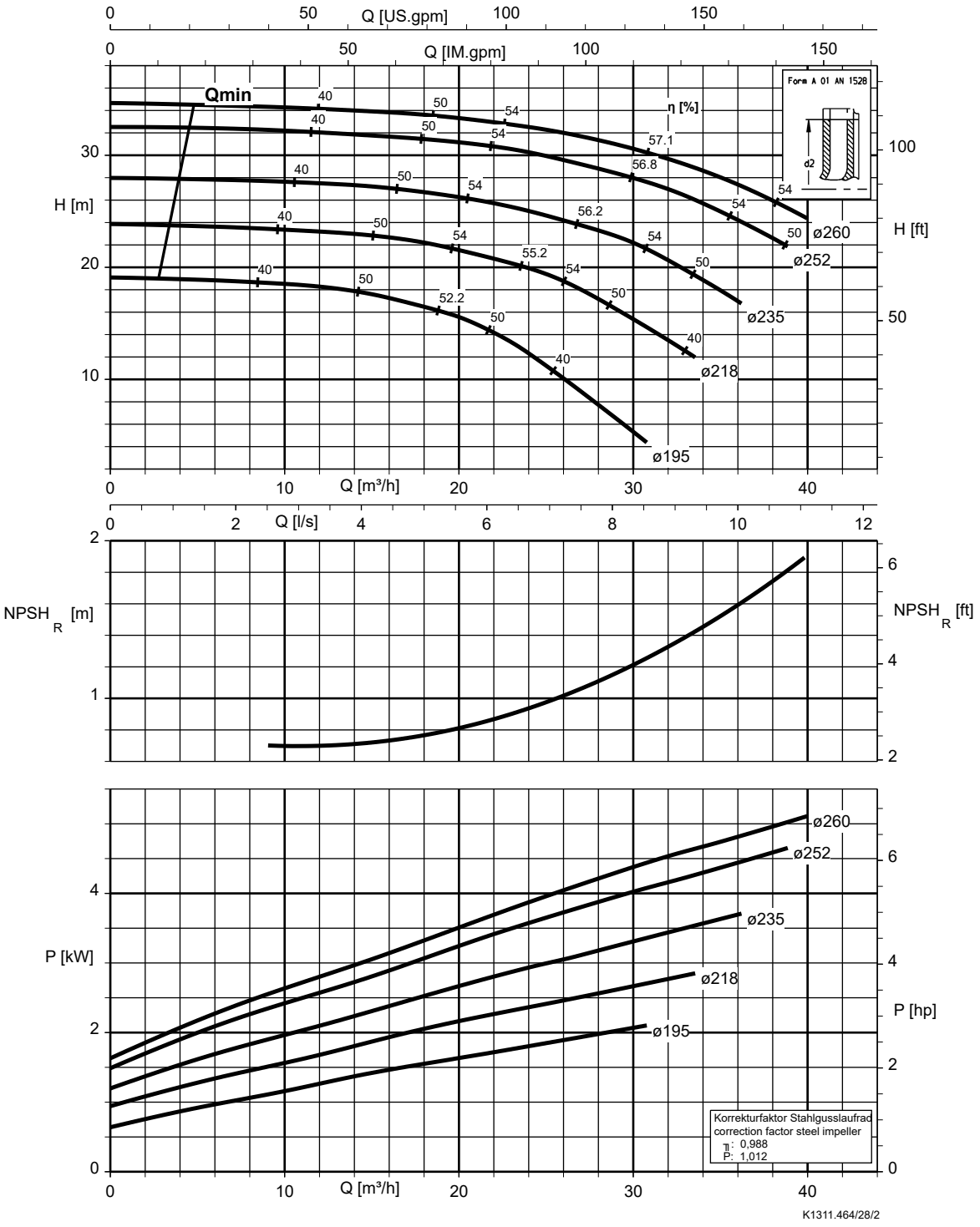
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 065-040-250, n = 1750 t/min

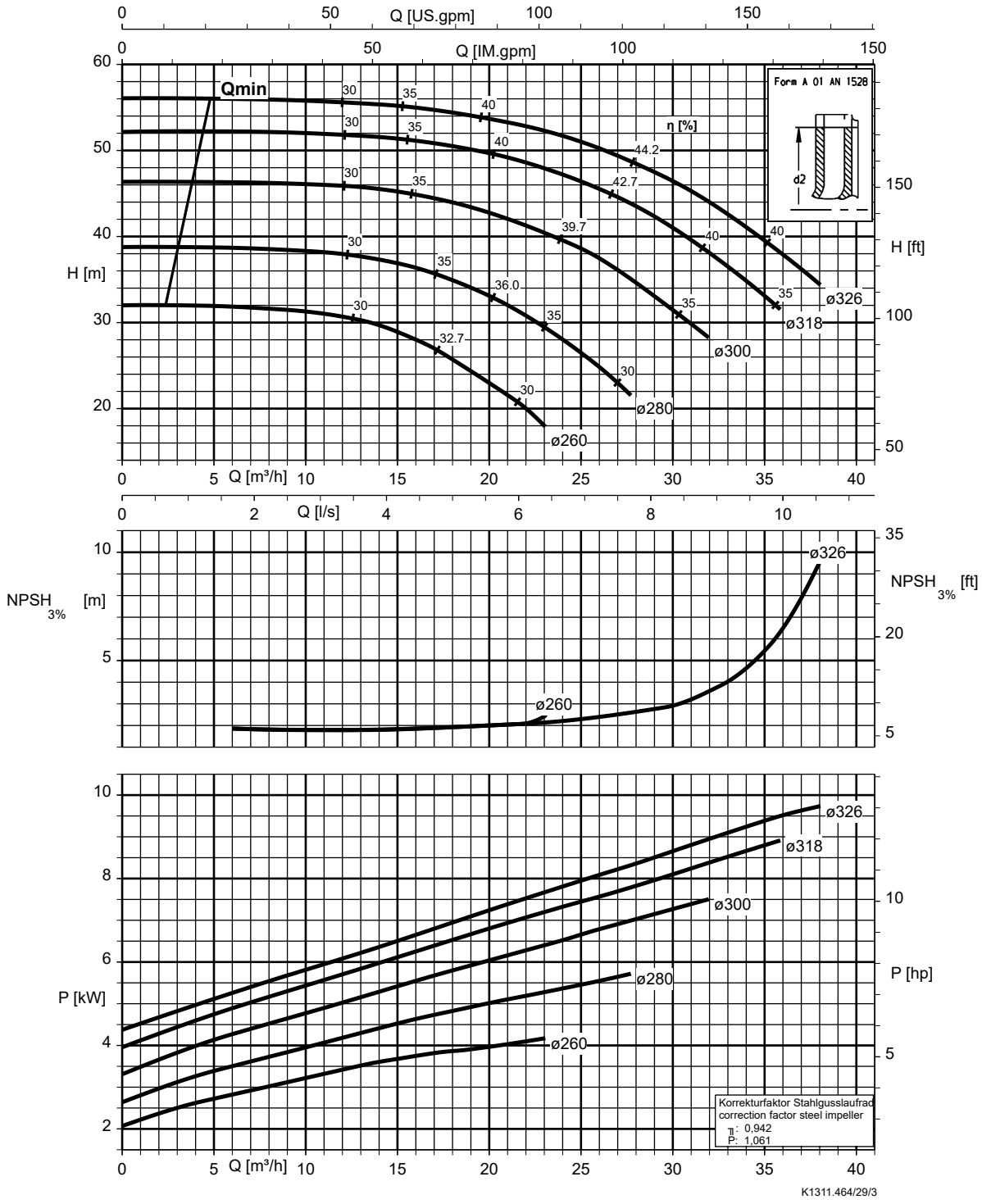
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 065-040-315, n = 1750 t/min

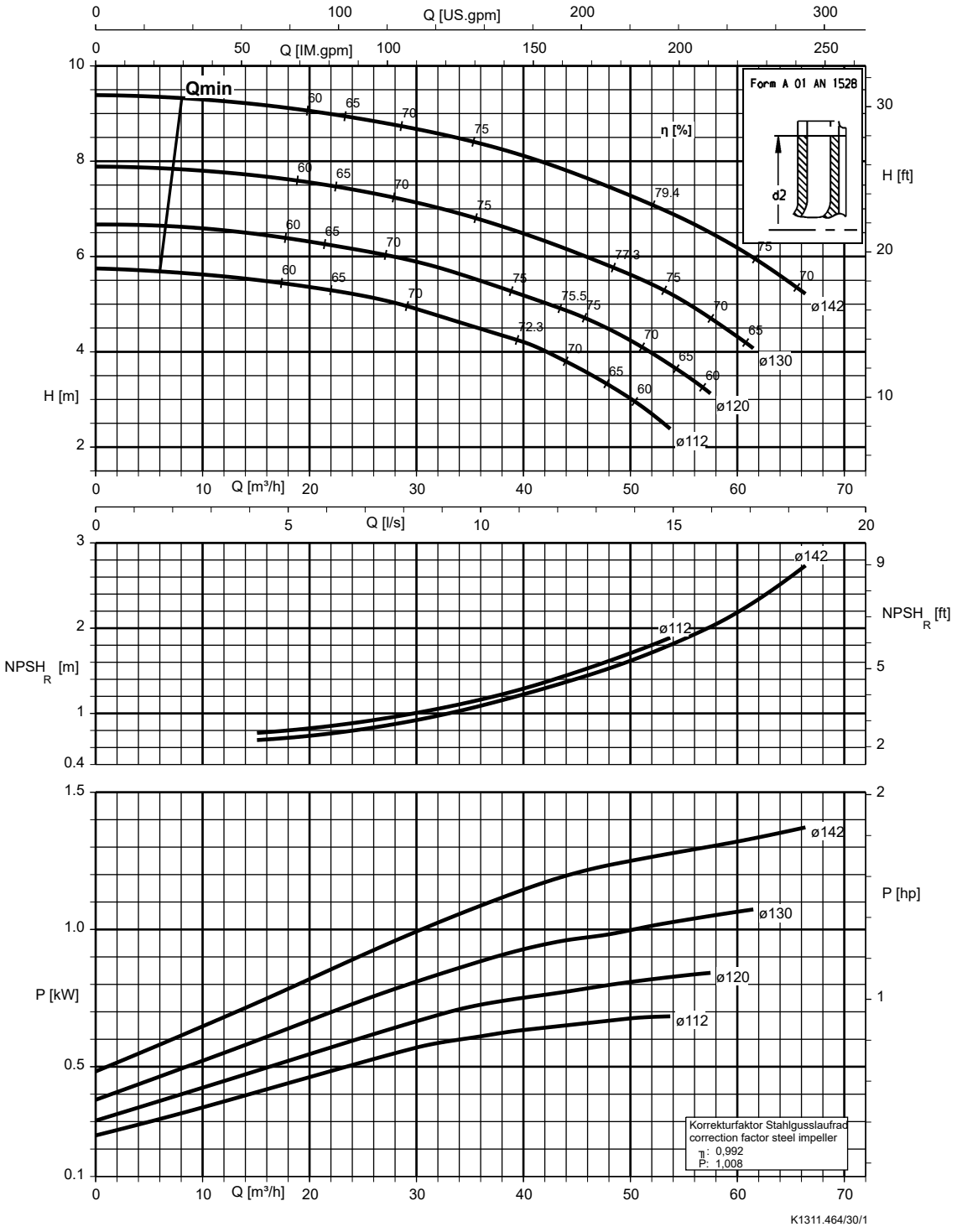
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 065-050-125, n = 1750 t/min

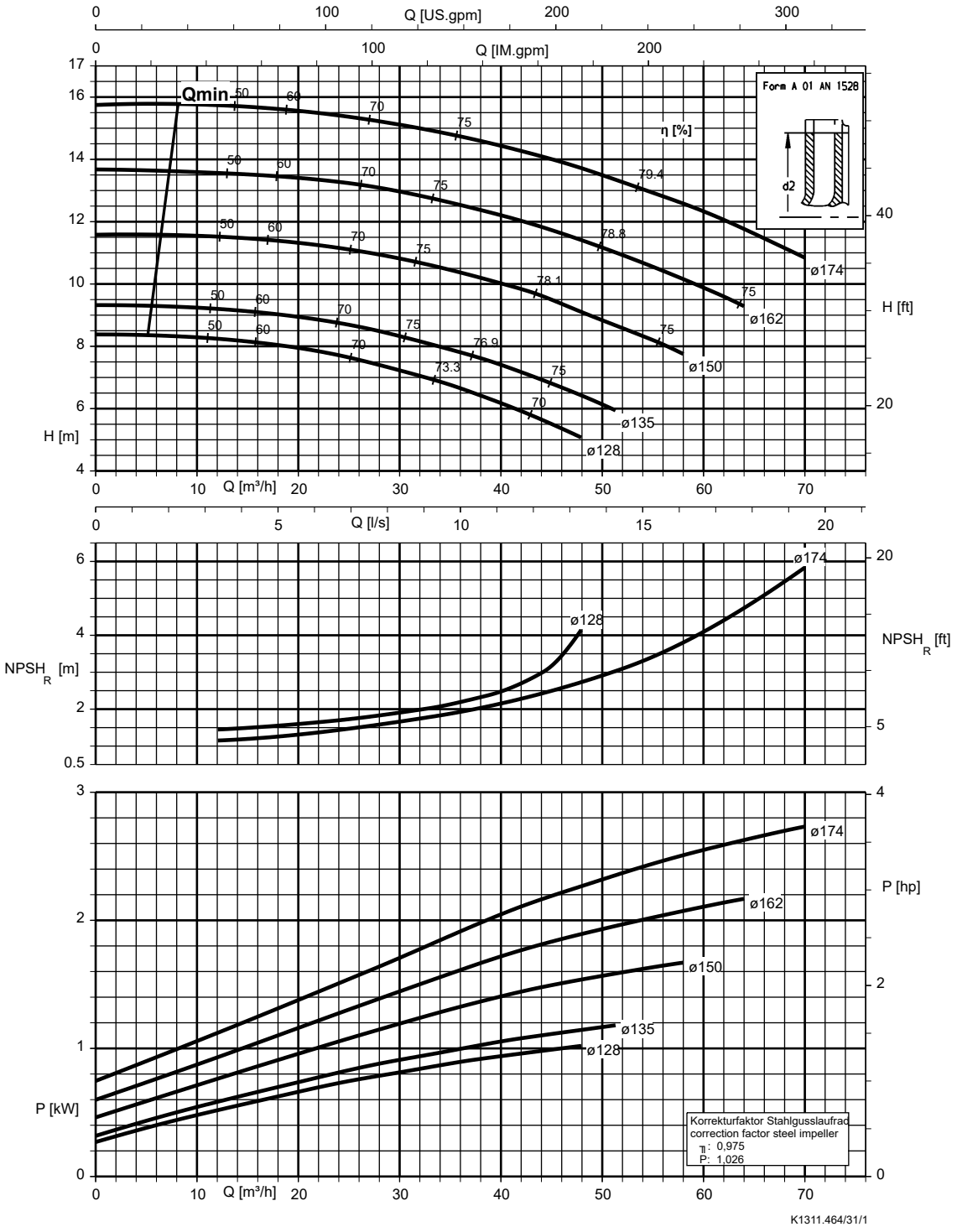
Etanorm V, Etabloc



1311.46/11-FR

Etanorm 065-050-160, n = 1750 t/min

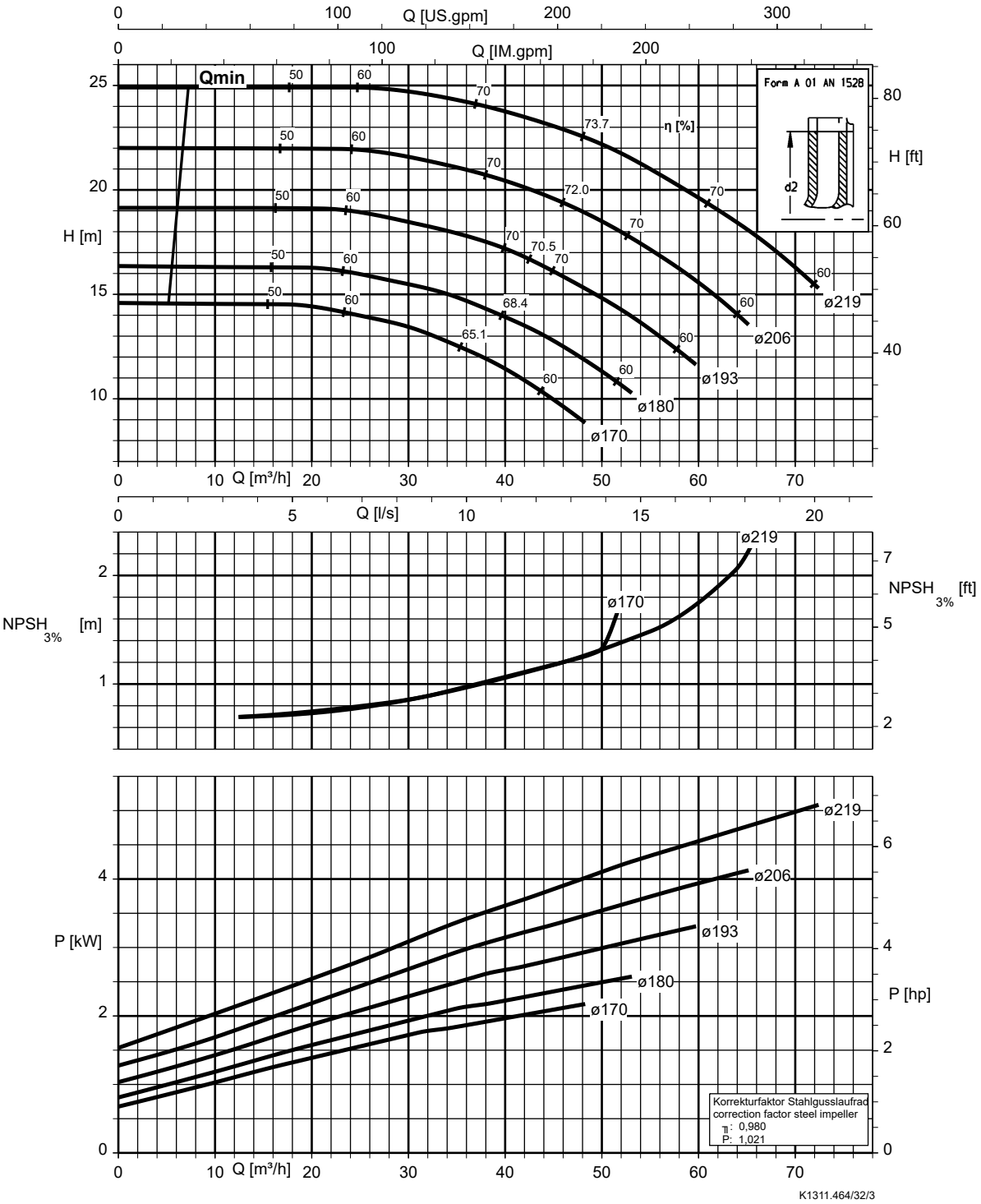
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 065-050-200, n = 1750 t/min

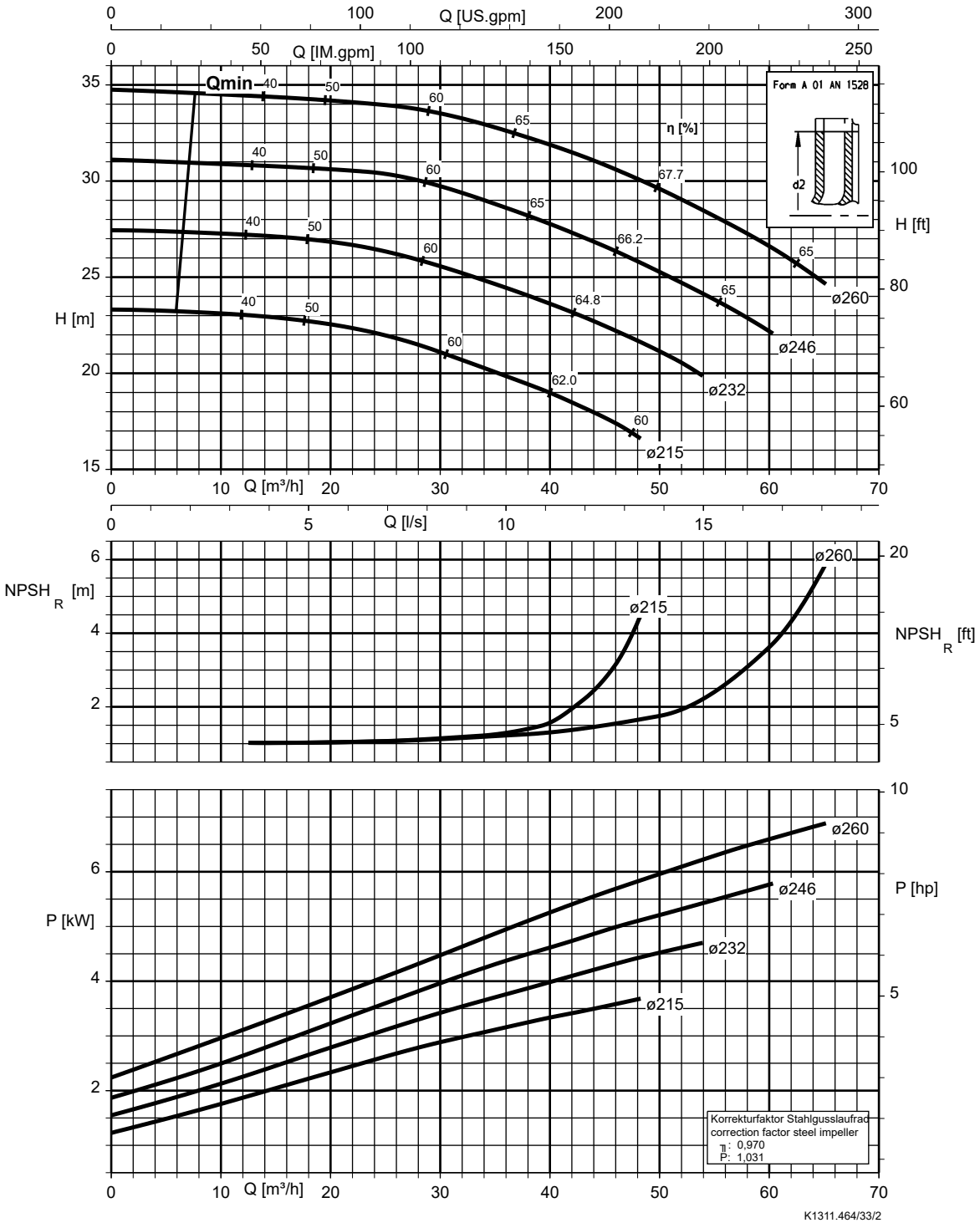
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 065-050-250, n = 1750 t/min

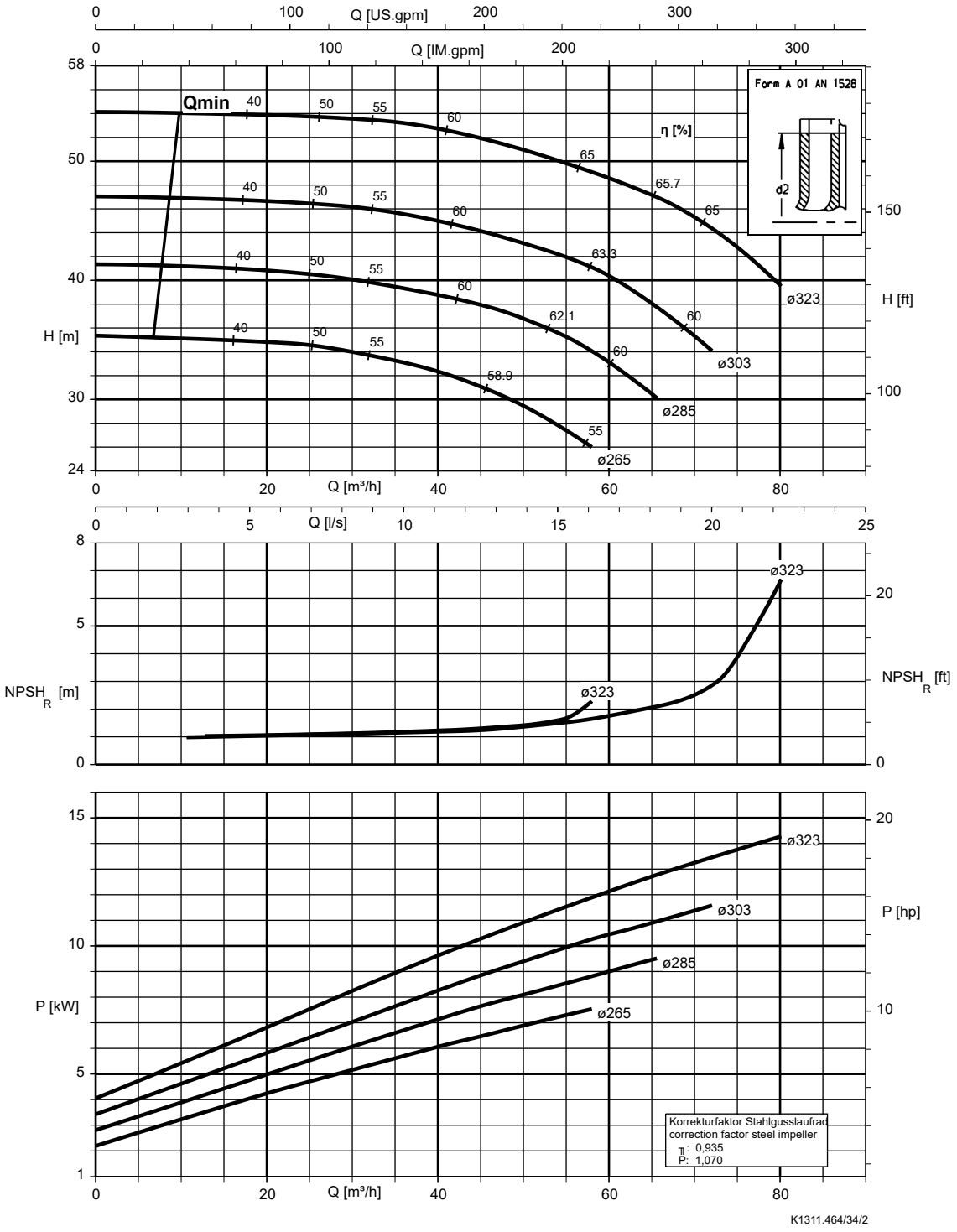
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 065-050-315, n = 1750 t/min

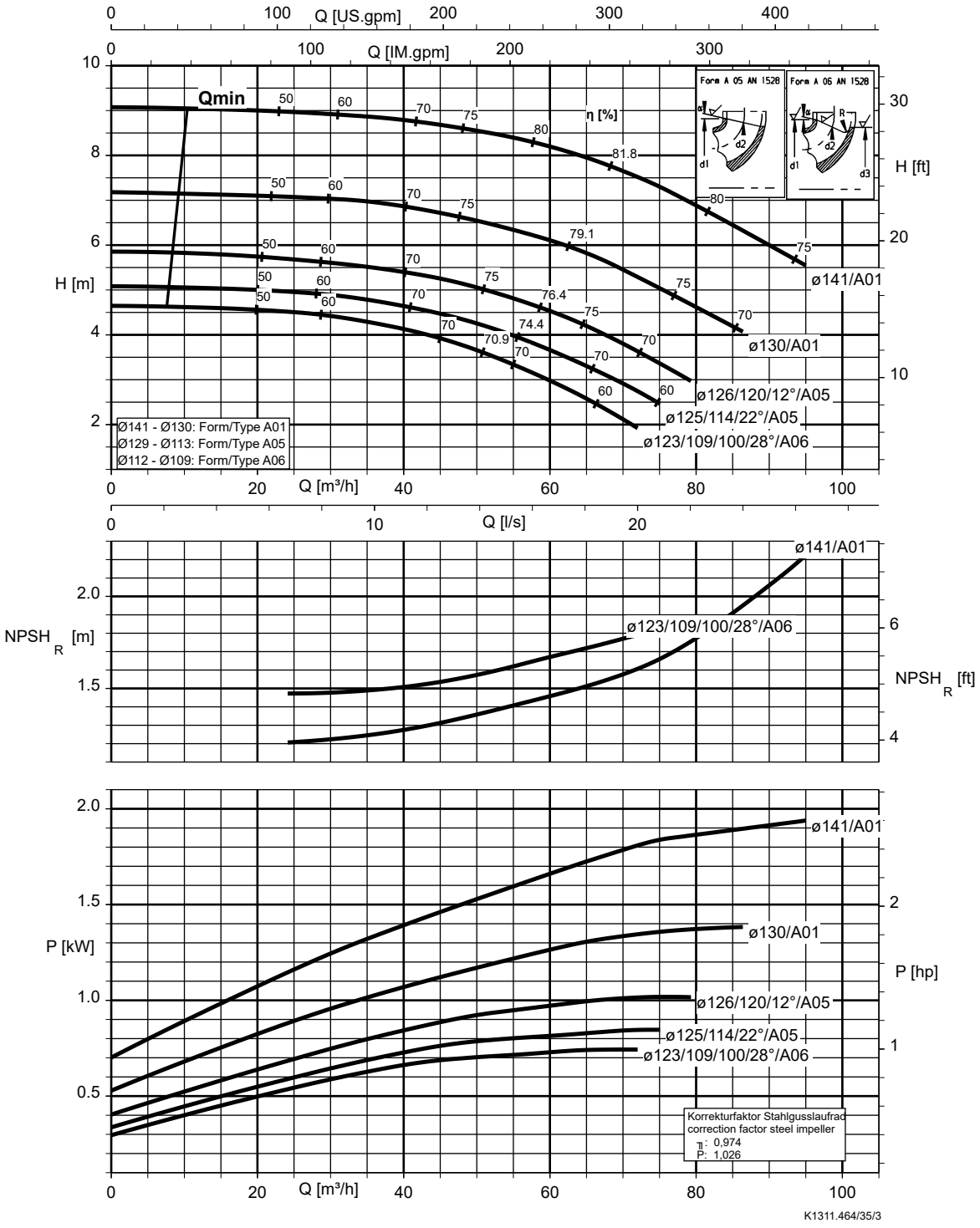
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

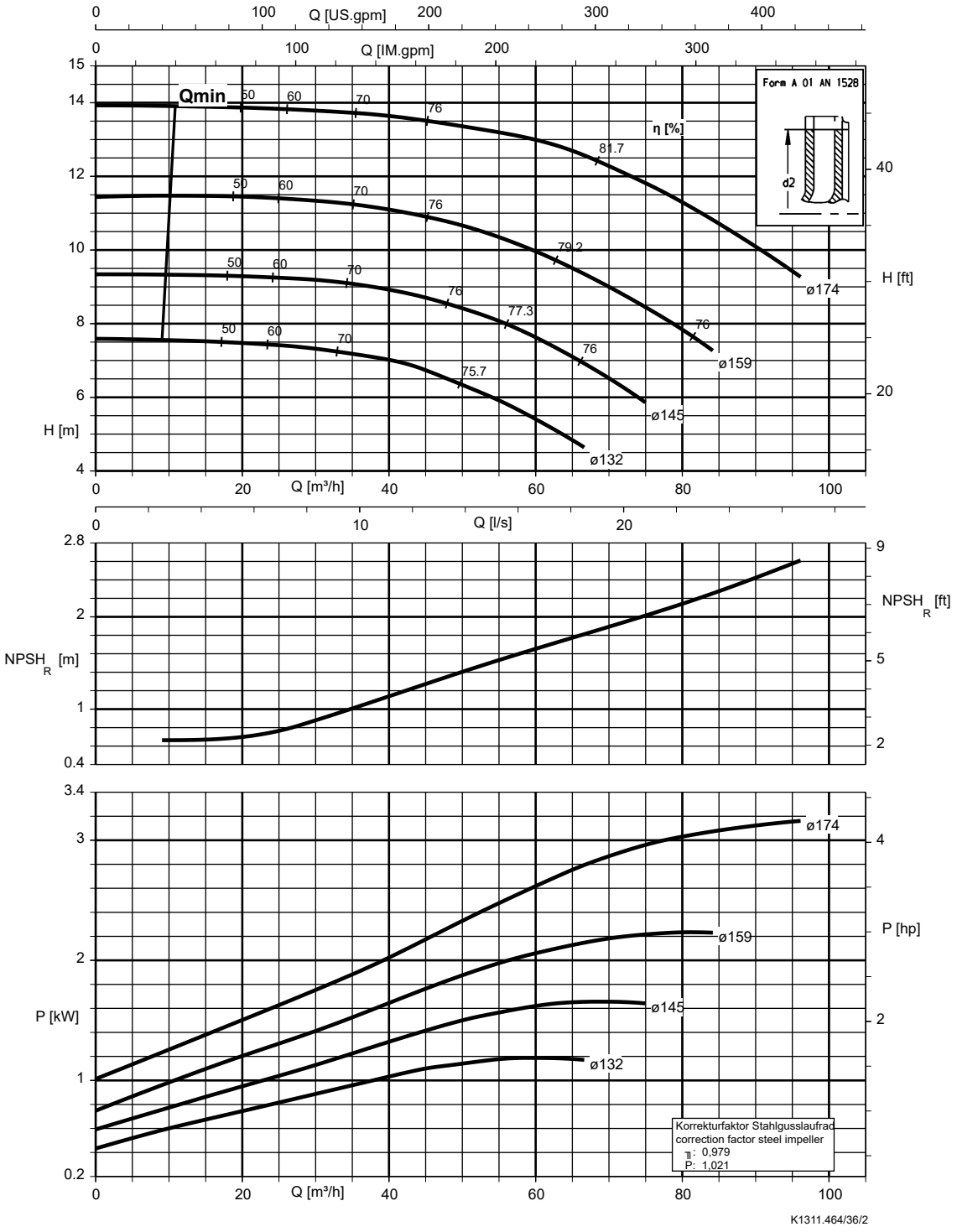
Etanorm 080-065-125, n = 1750 t/min

Etanorm V, Etabloc



Etanorm 080-065-160, n = 1750 t/min

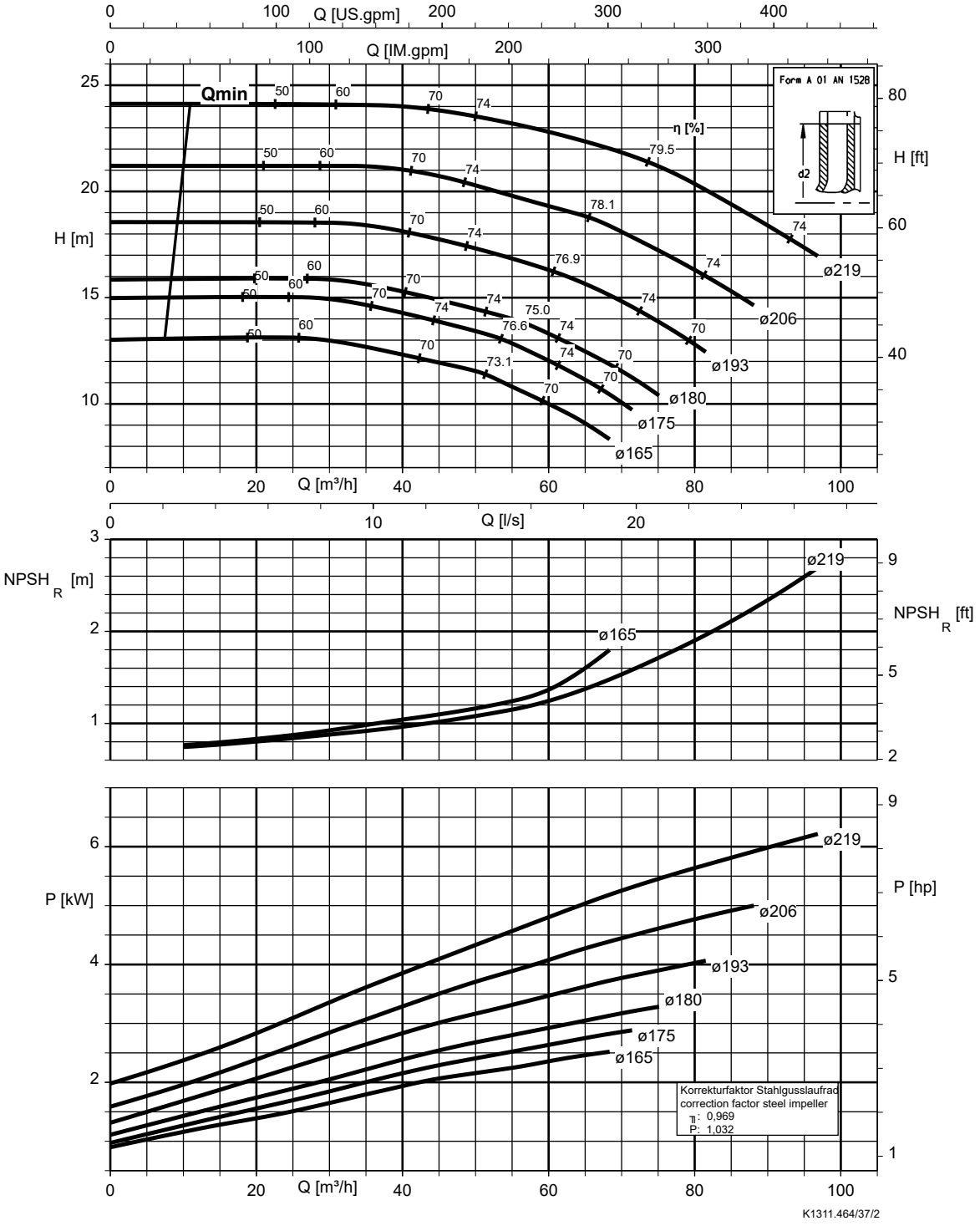
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

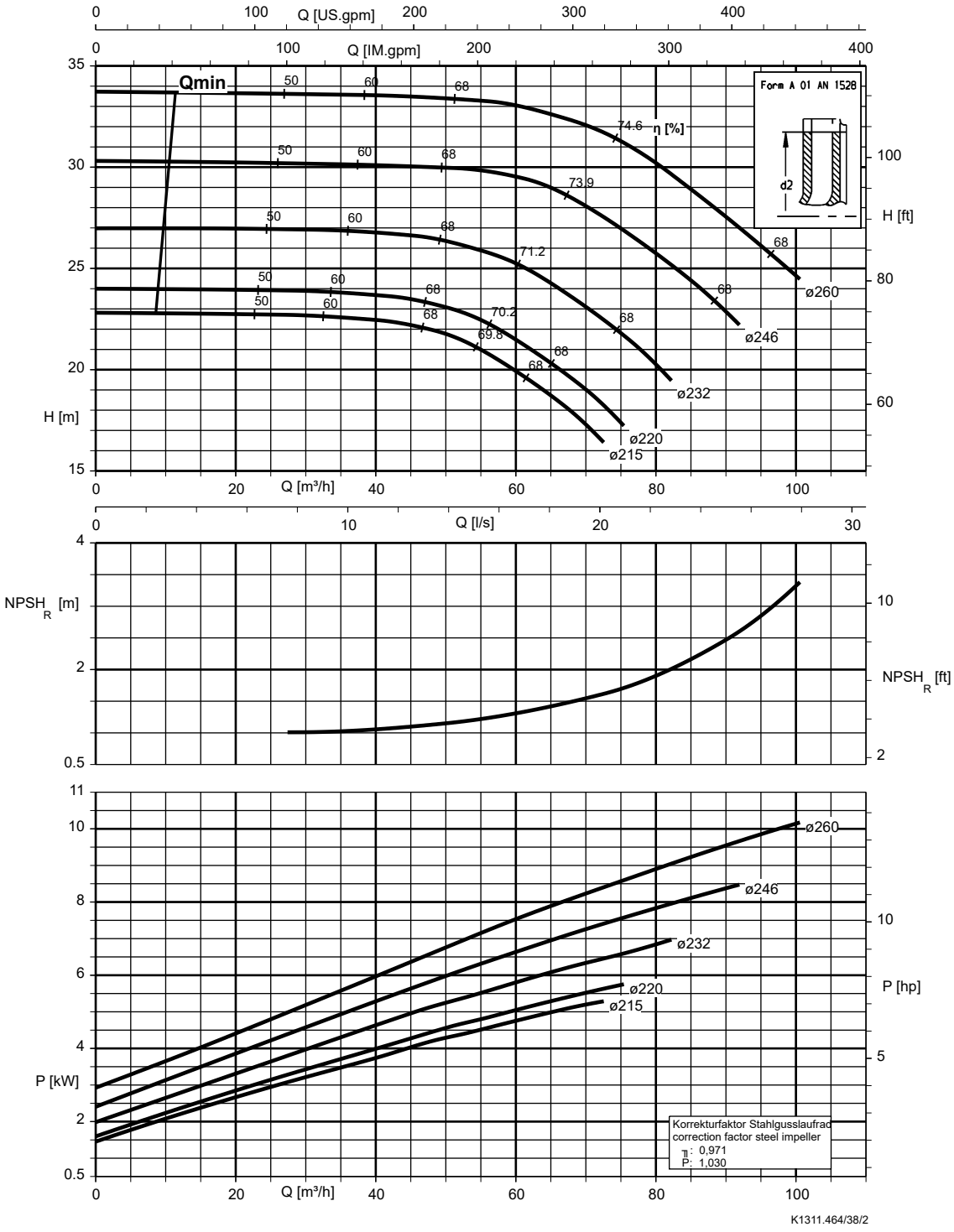
Etanorm 080-065-200, n = 1750 t/min

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 080-065-250, n = 1750 t/min

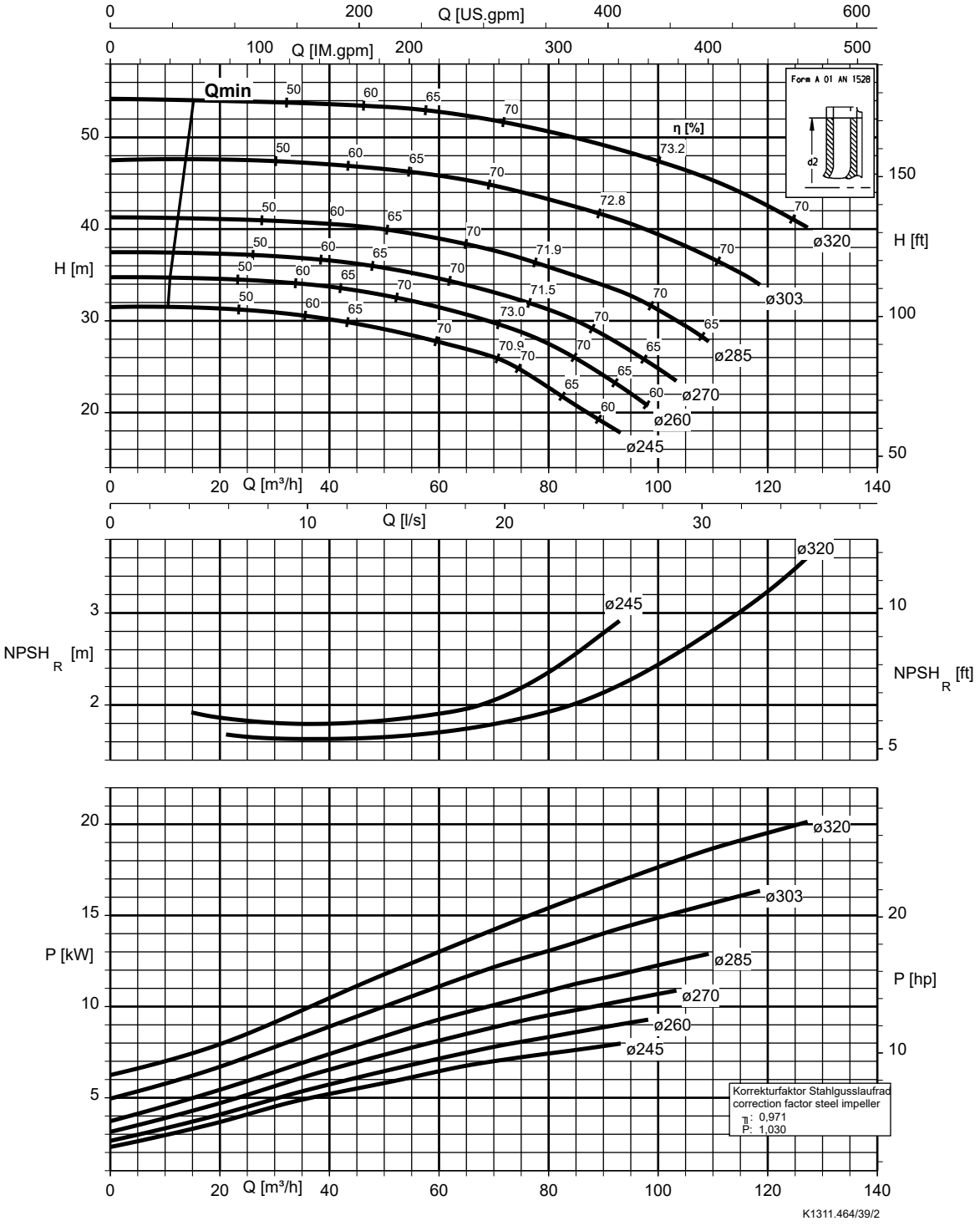
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 080-065-315, n = 1750 t/min

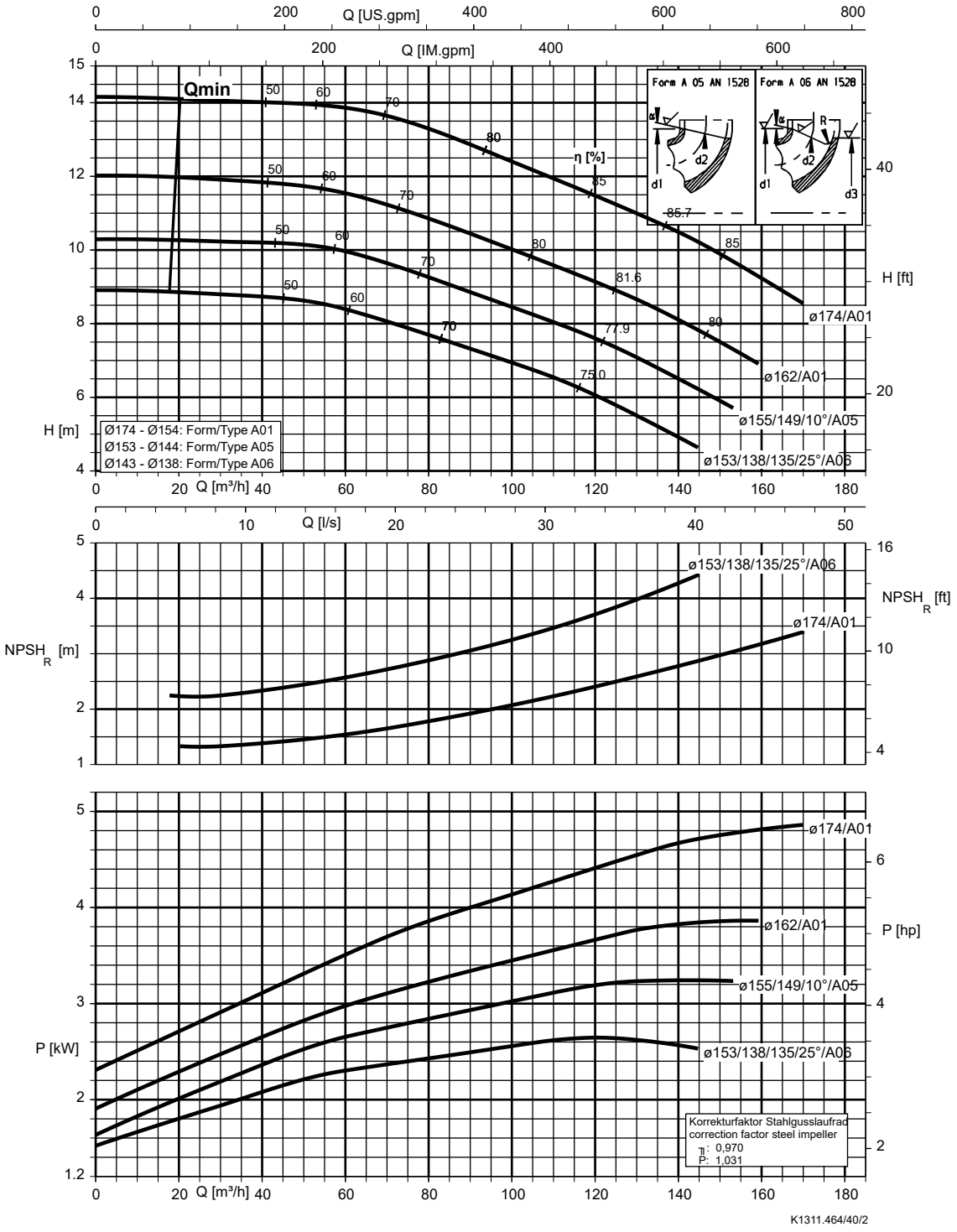
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 100-080-160, n = 1750 t/min

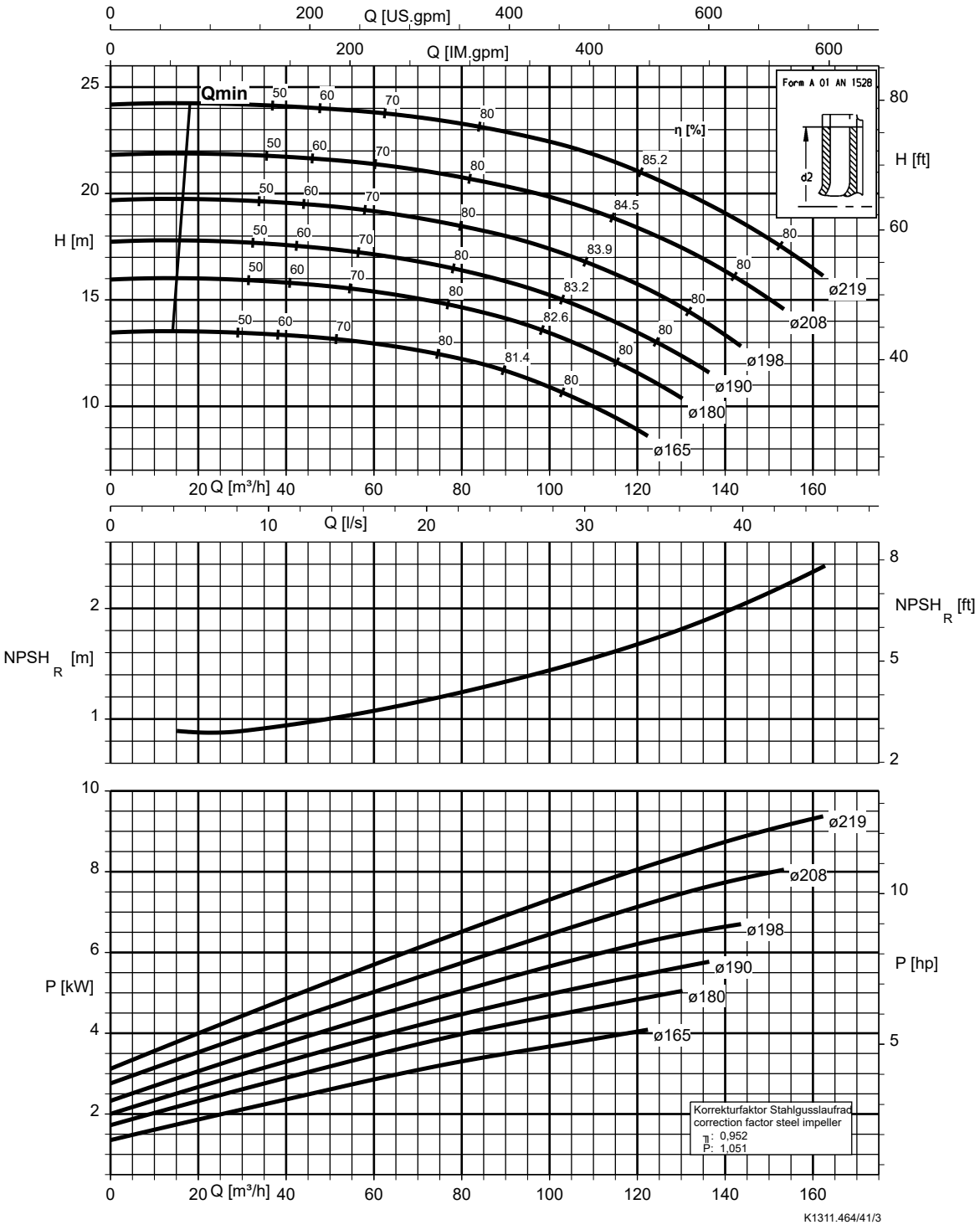
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.46/11-FR

Etanorm 100-080-200, n = 1750 t/min

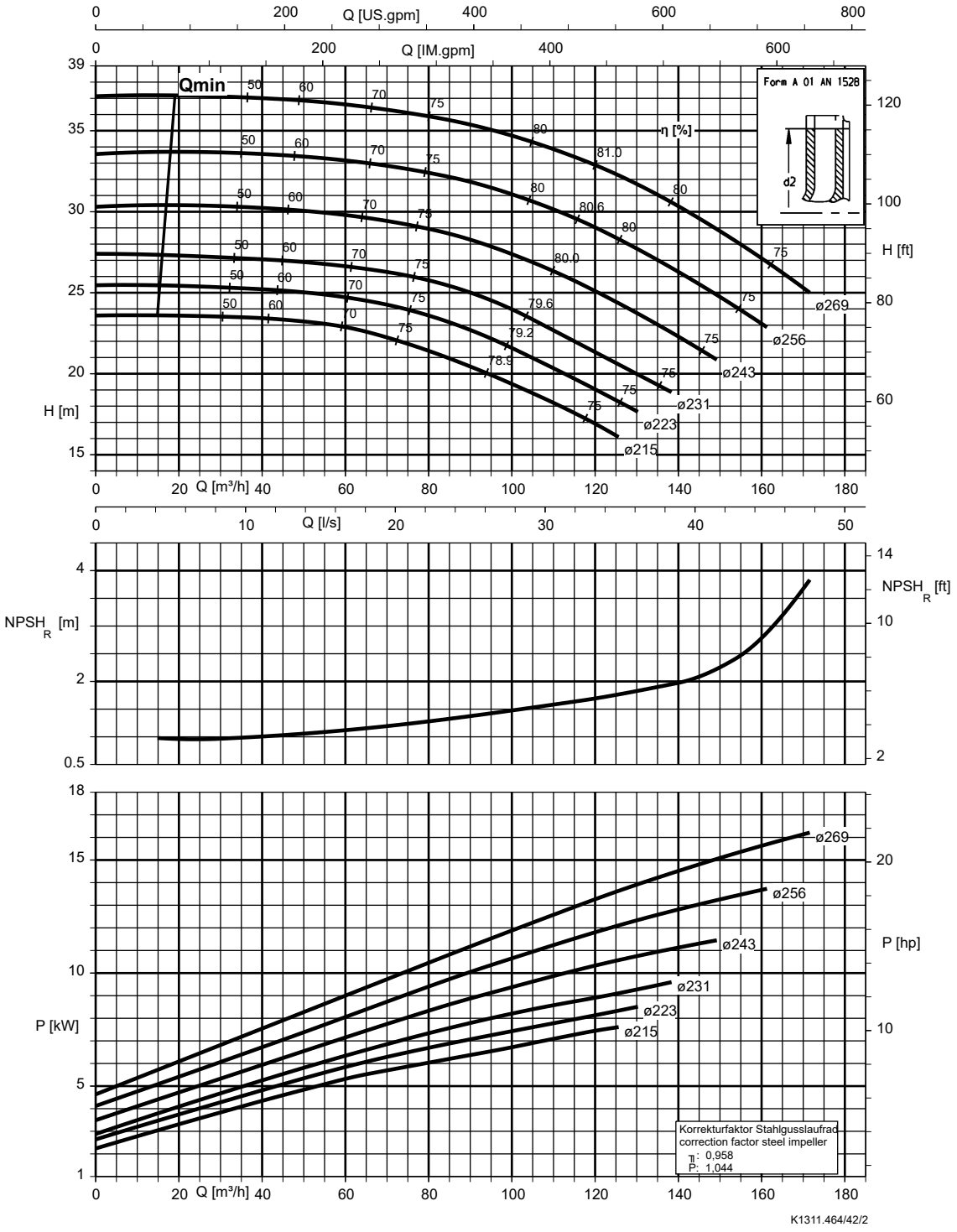
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 100-080-250, n = 1750 t/min

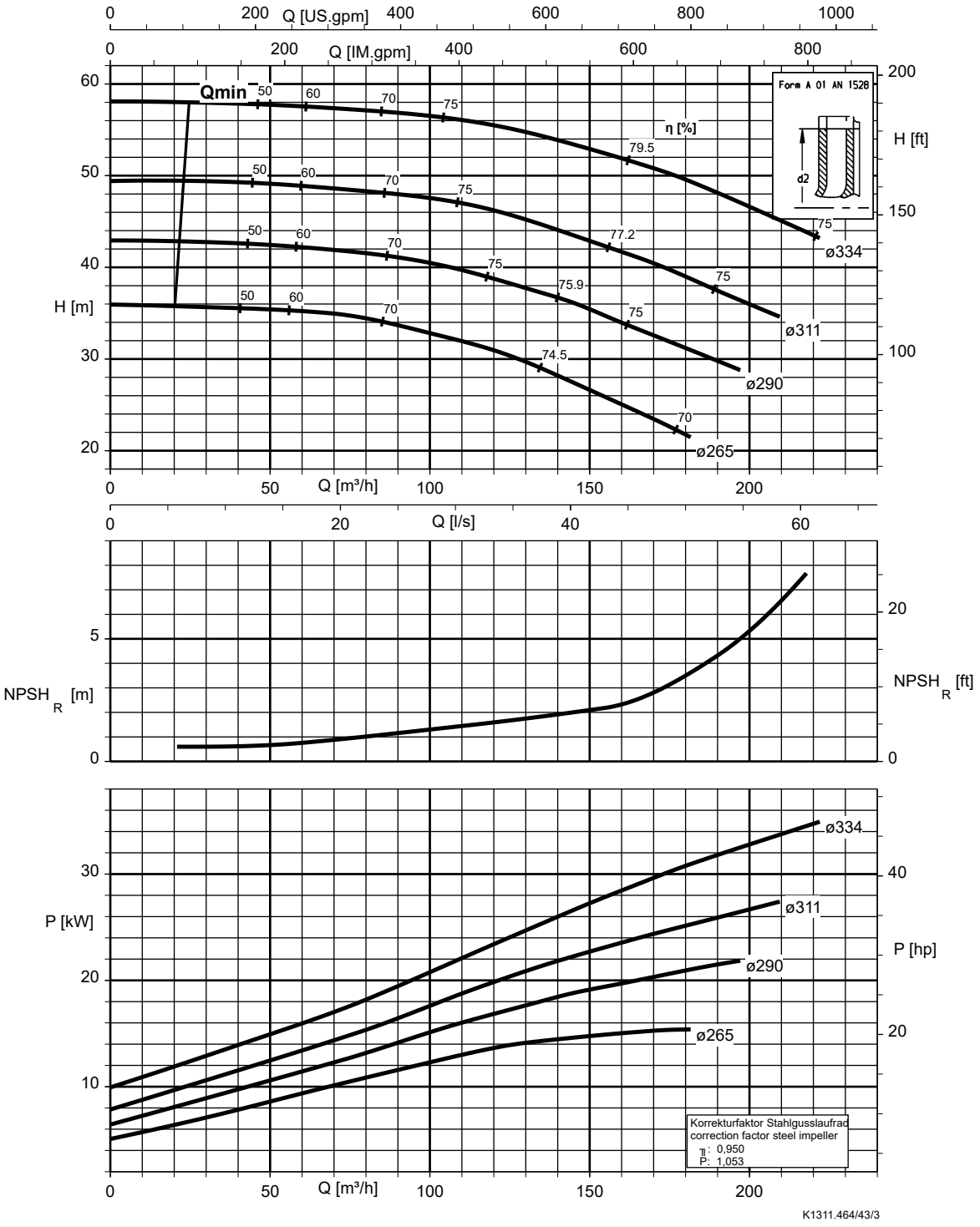
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 100-080-315, n = 1750 t/min

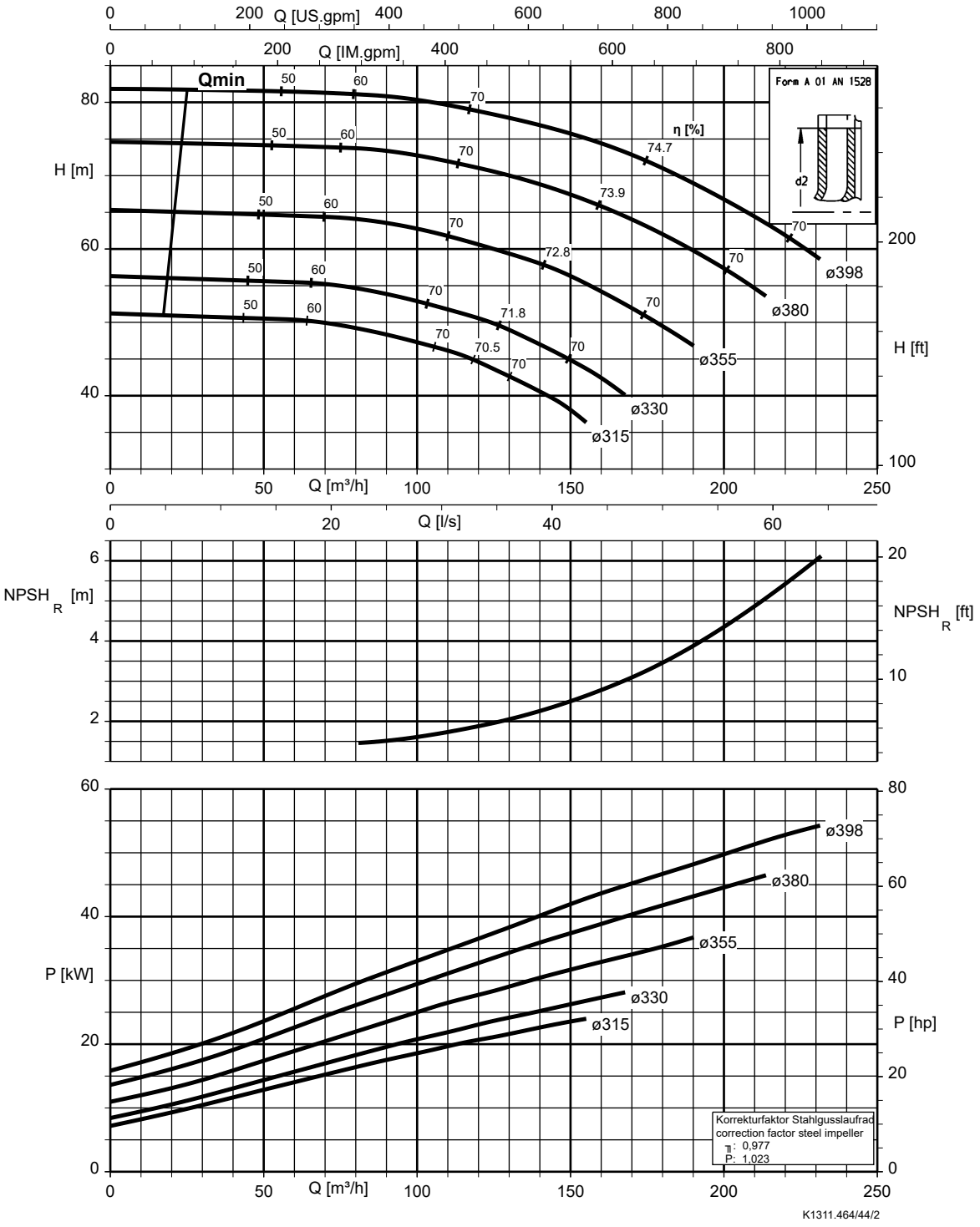
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 100-080-400, n = 1750 t/min

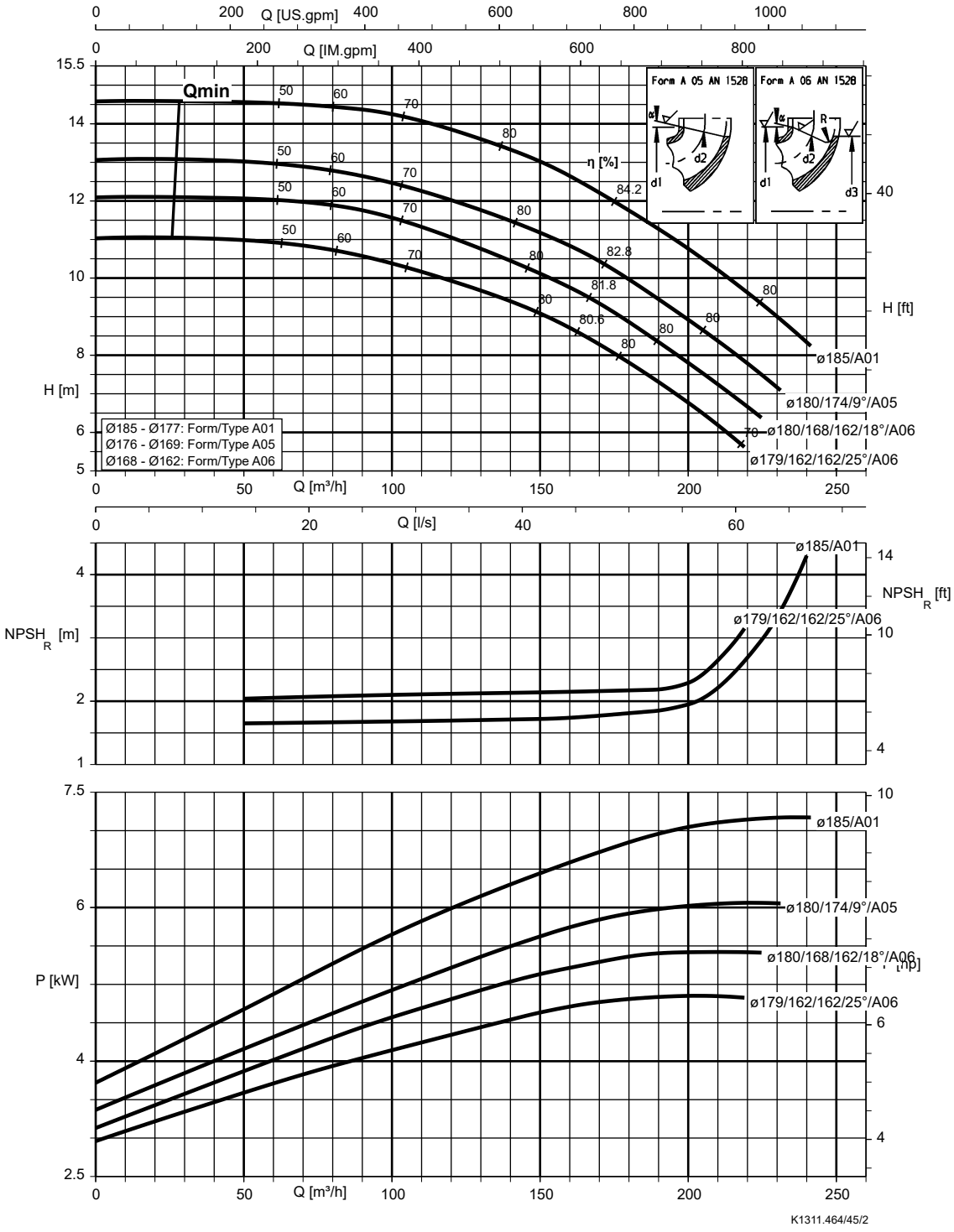
Etanorm V, Etabloc



1311.46/11-FR

Etanorm 125-100-160, n = 1750 t/min

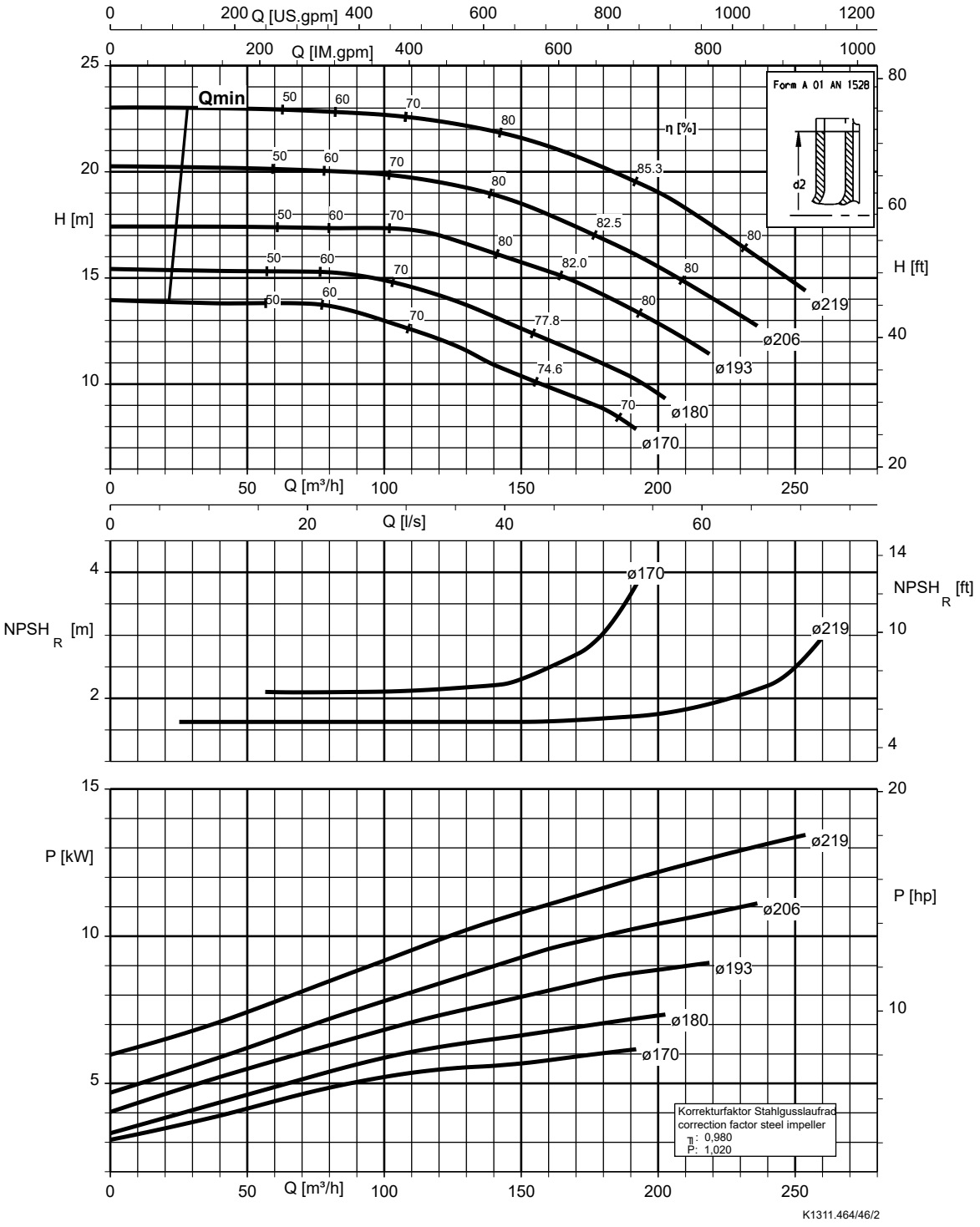
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 125-100-200, n = 1750 t/min

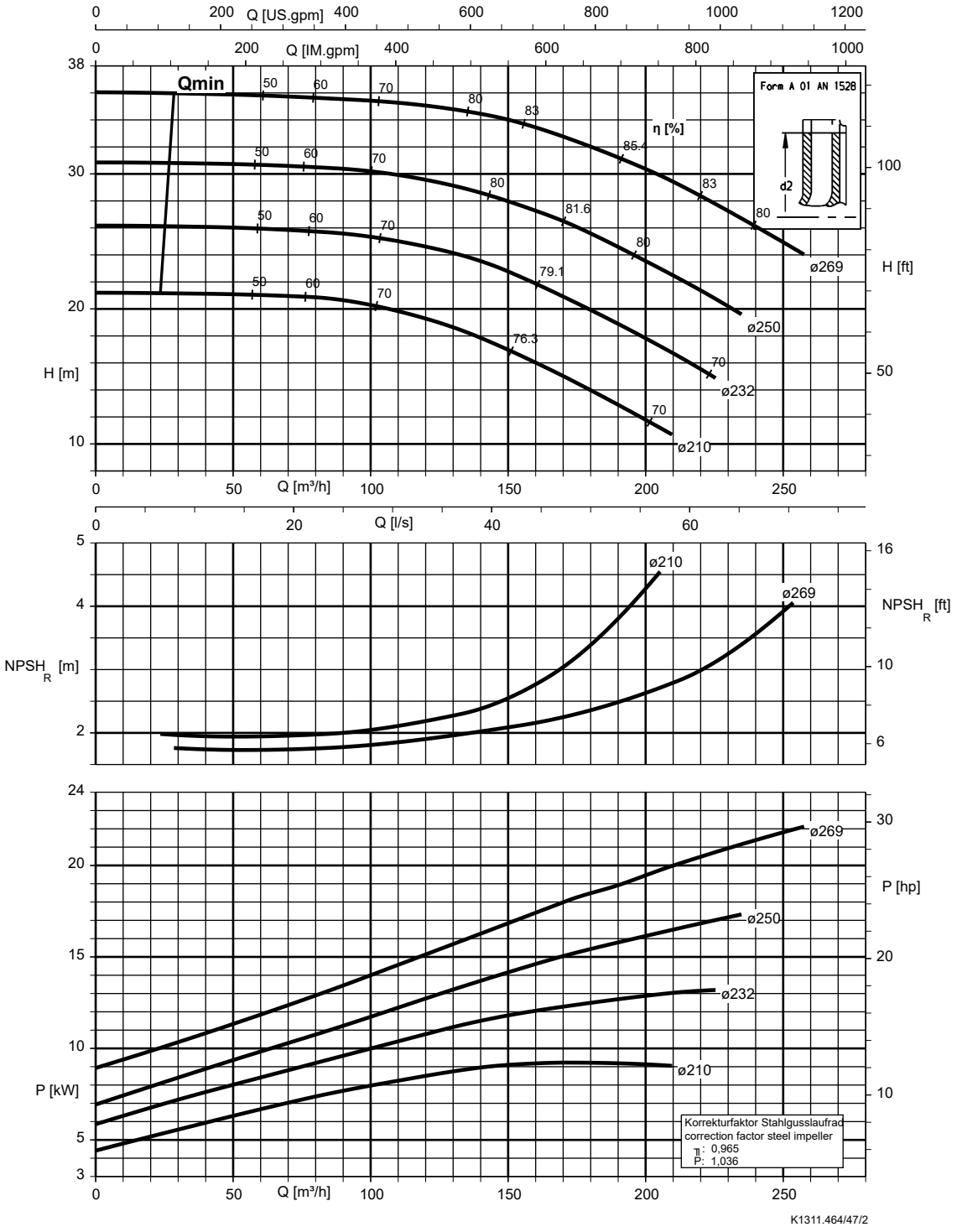
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 125-100-250, n = 1750 t/min

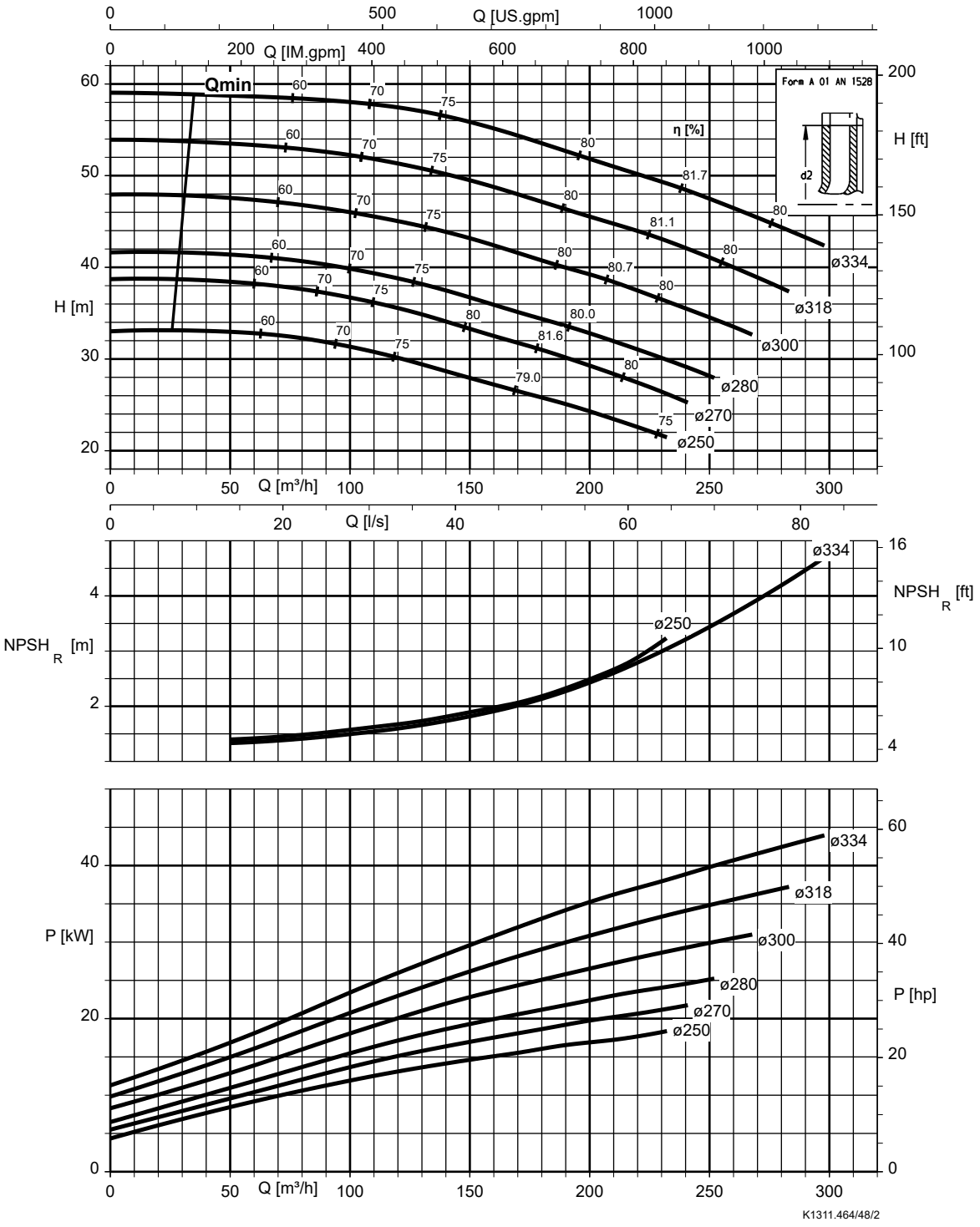
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 125-100-315, n = 1750 t/min

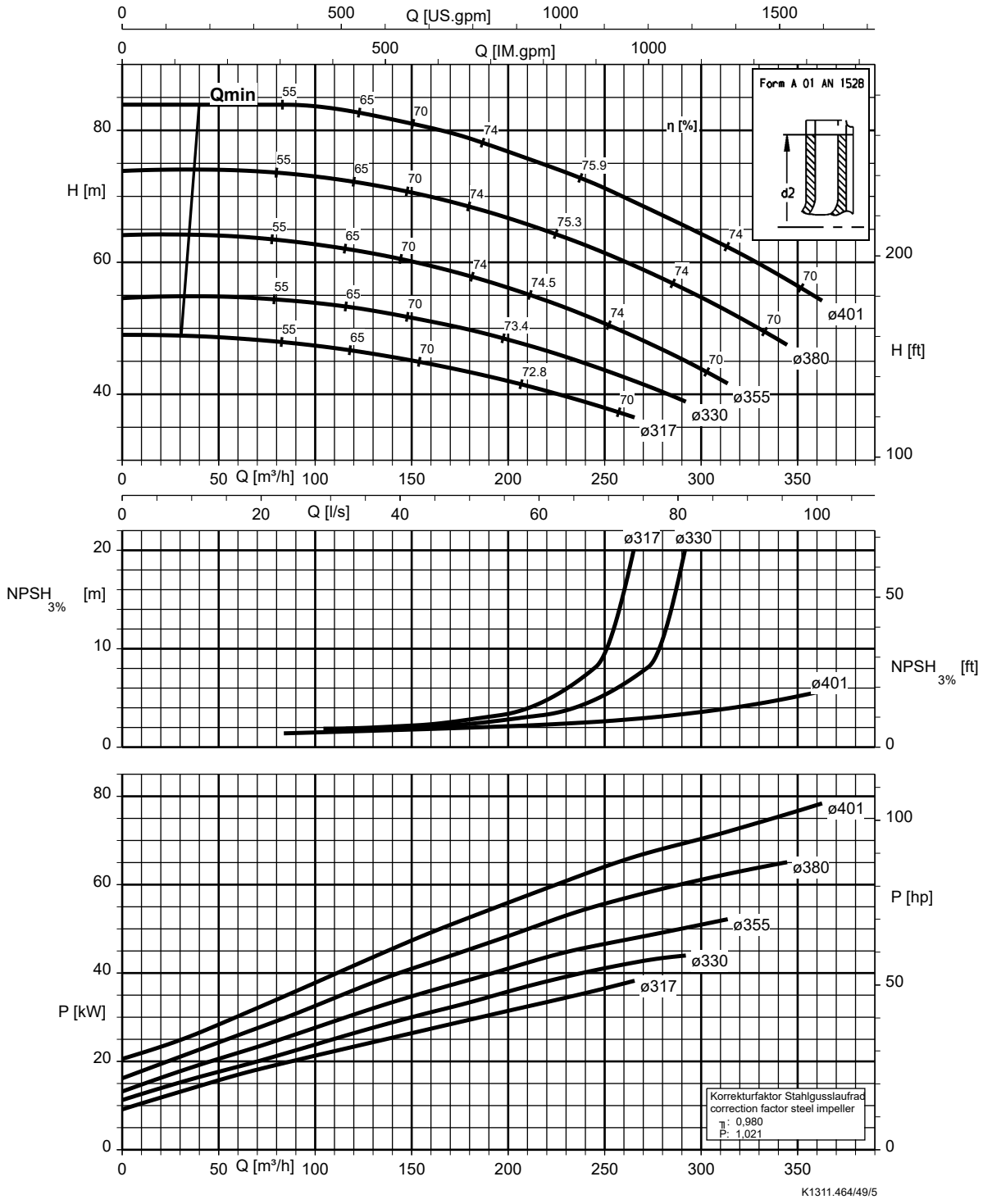
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

Etanorm 125-100-400, n = 1750 t/min

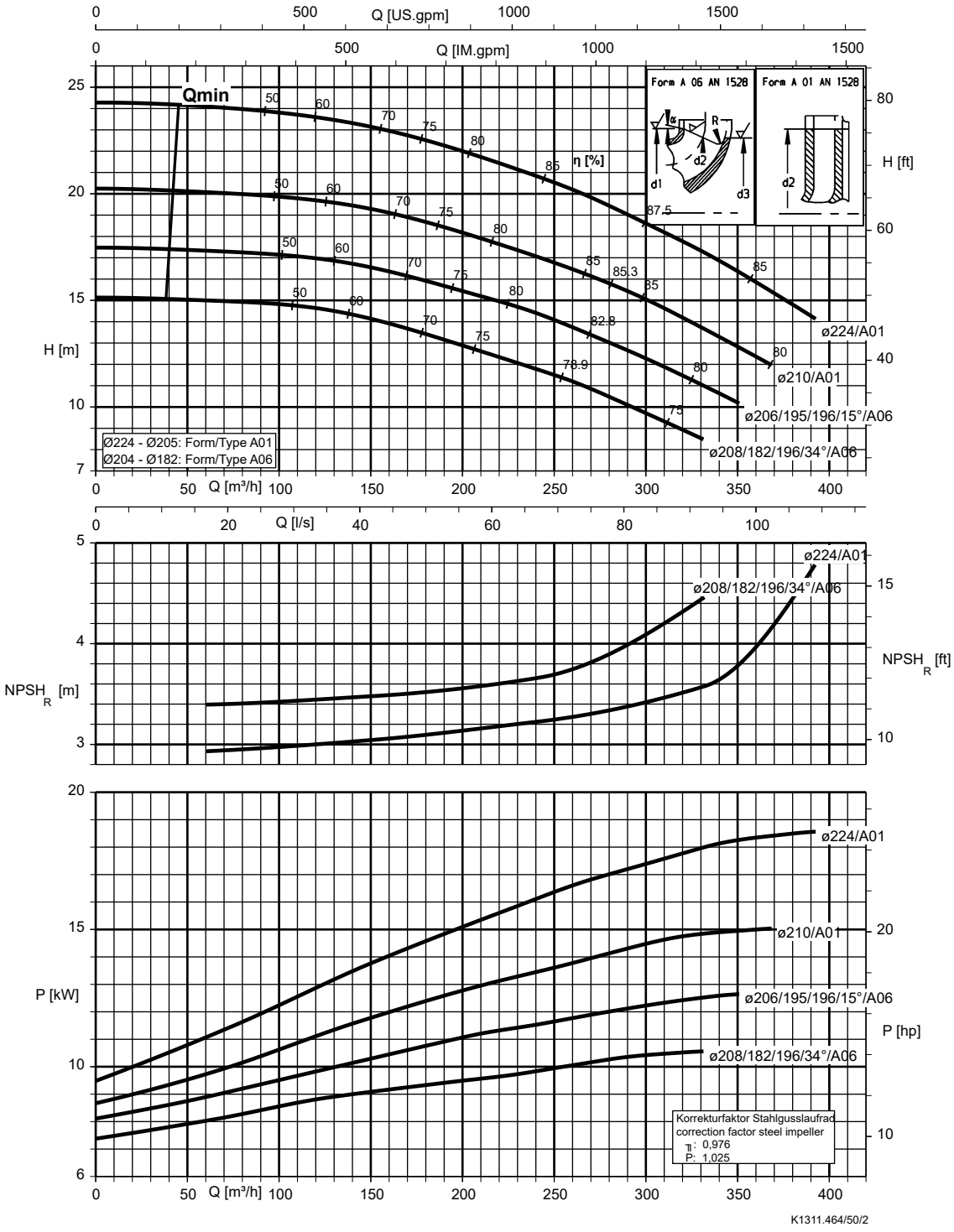
Etanorm V, Etabloc



1311.46/11-FR

Etanorm 150-125-200, n = 1750 t/min

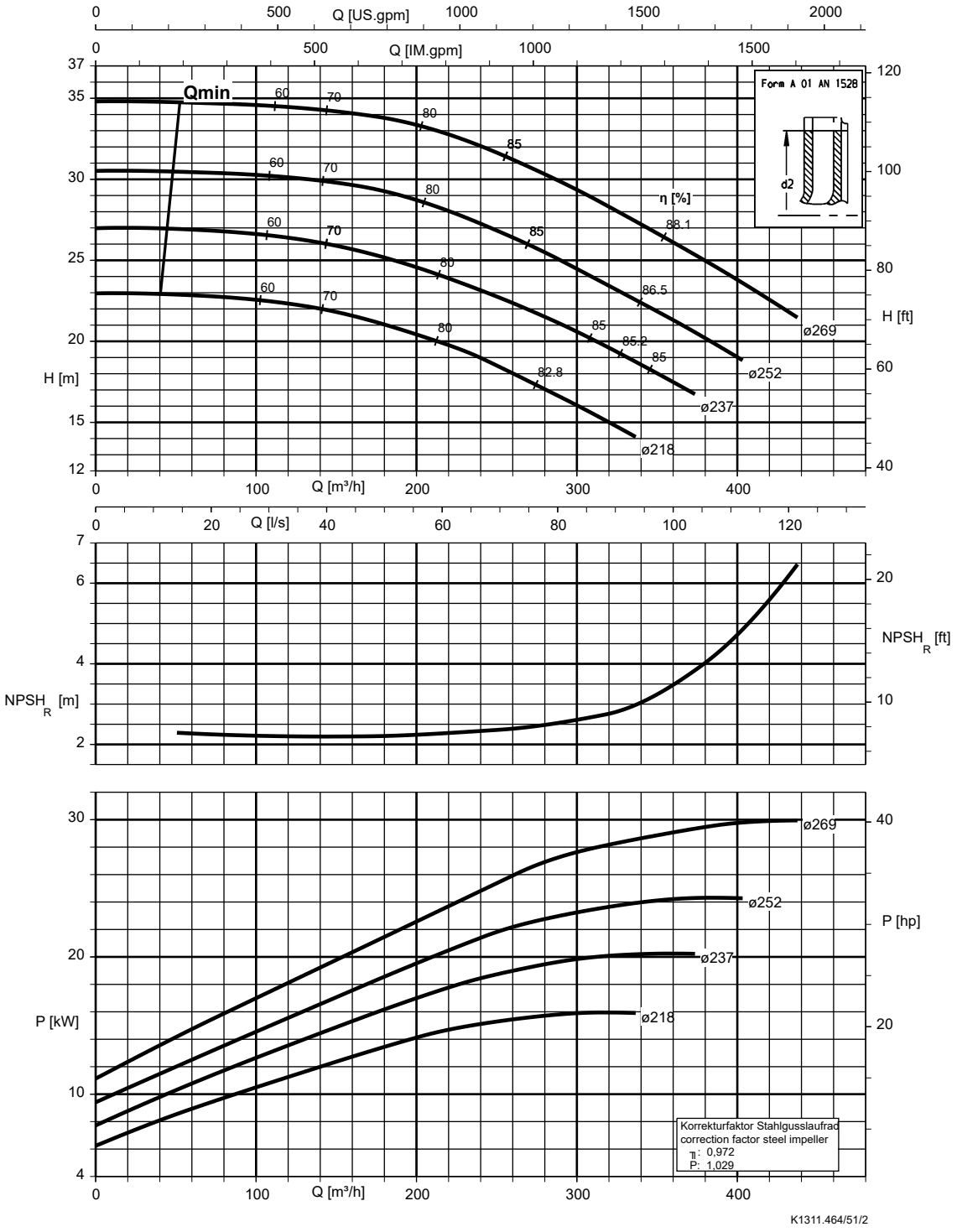
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

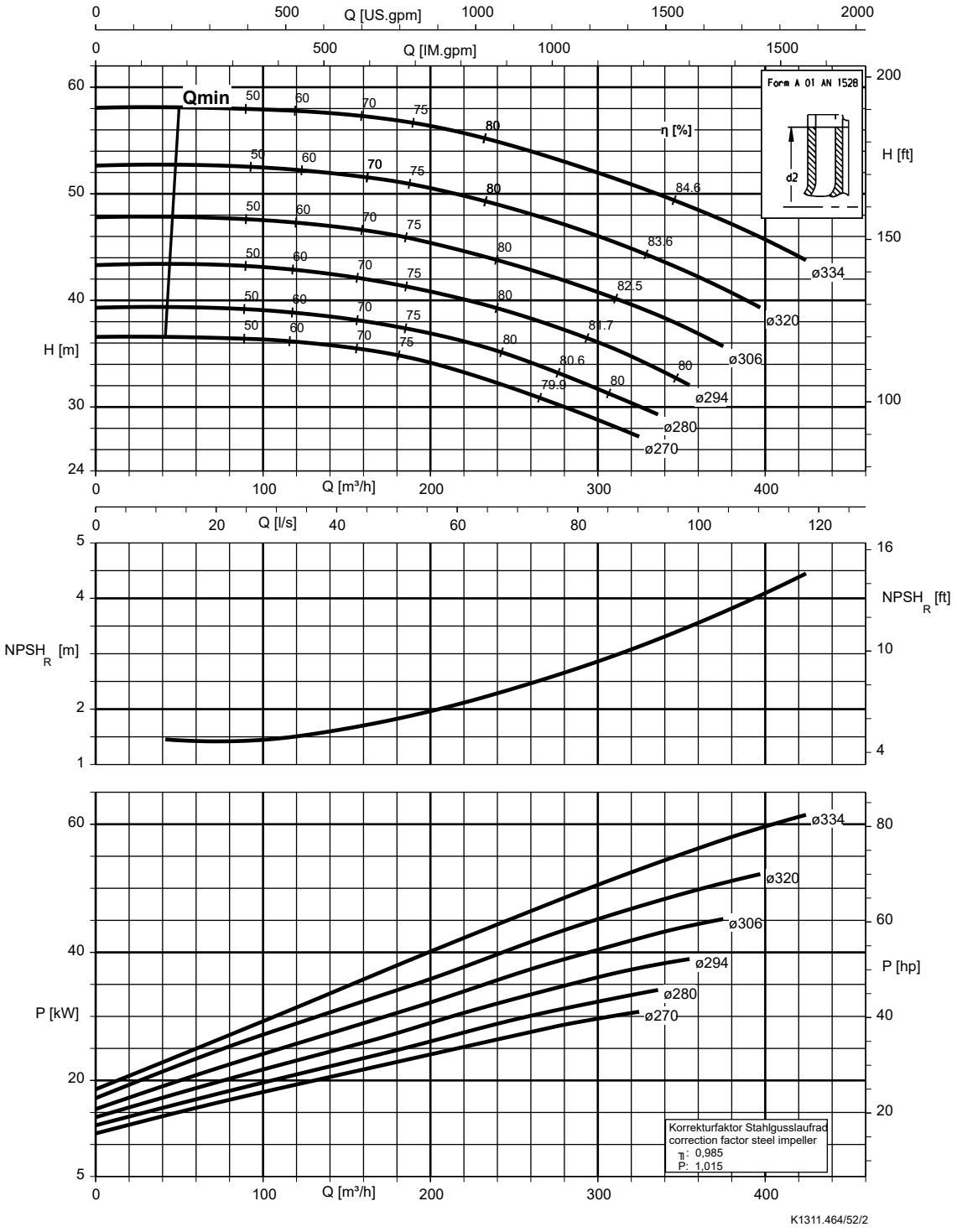
Etanorm 150-125-250, n = 1750 t/min

Etanorm SYT, Etanorm V, Etabloc



Etanorm 150-125-315, n = 1750 t/min

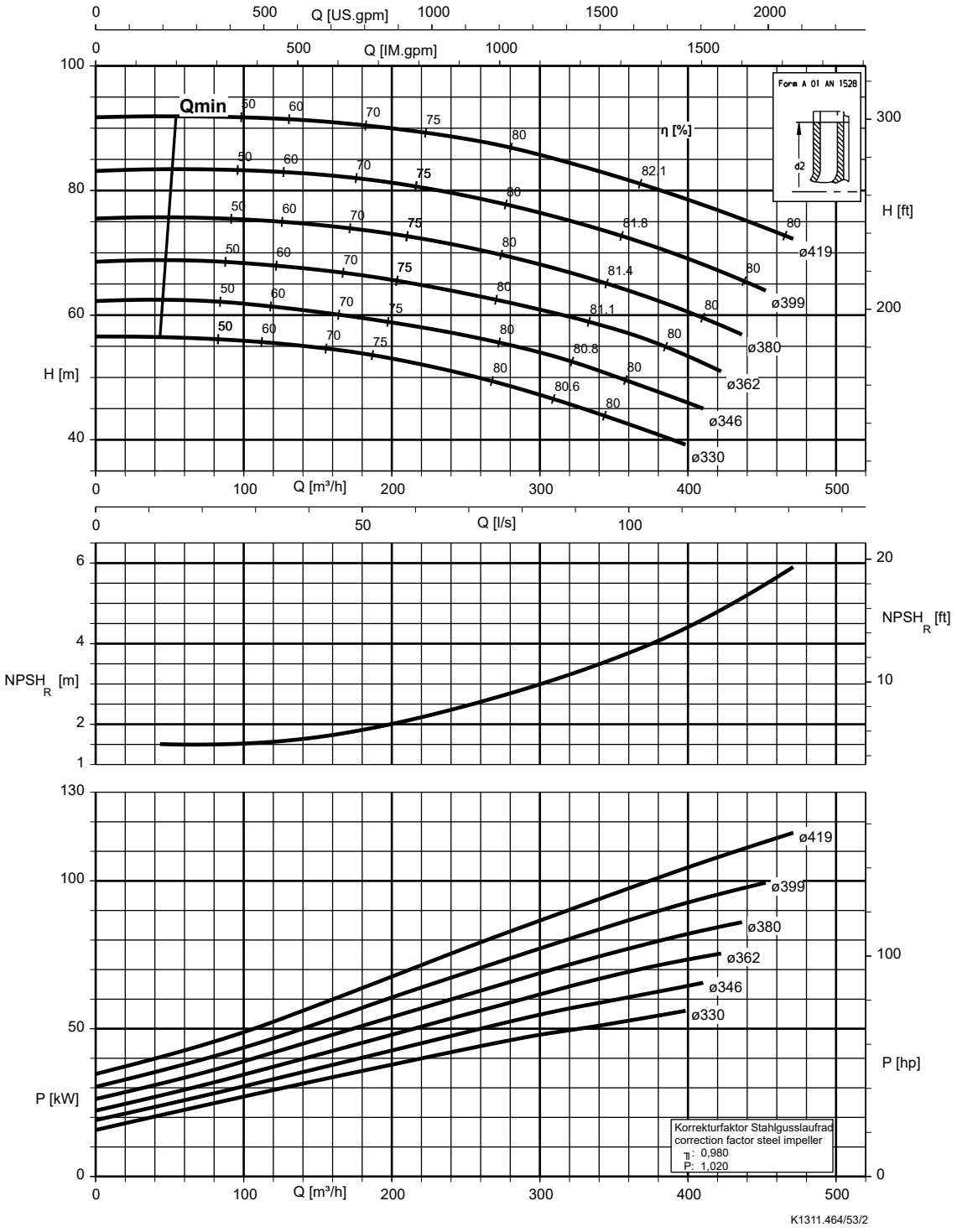
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

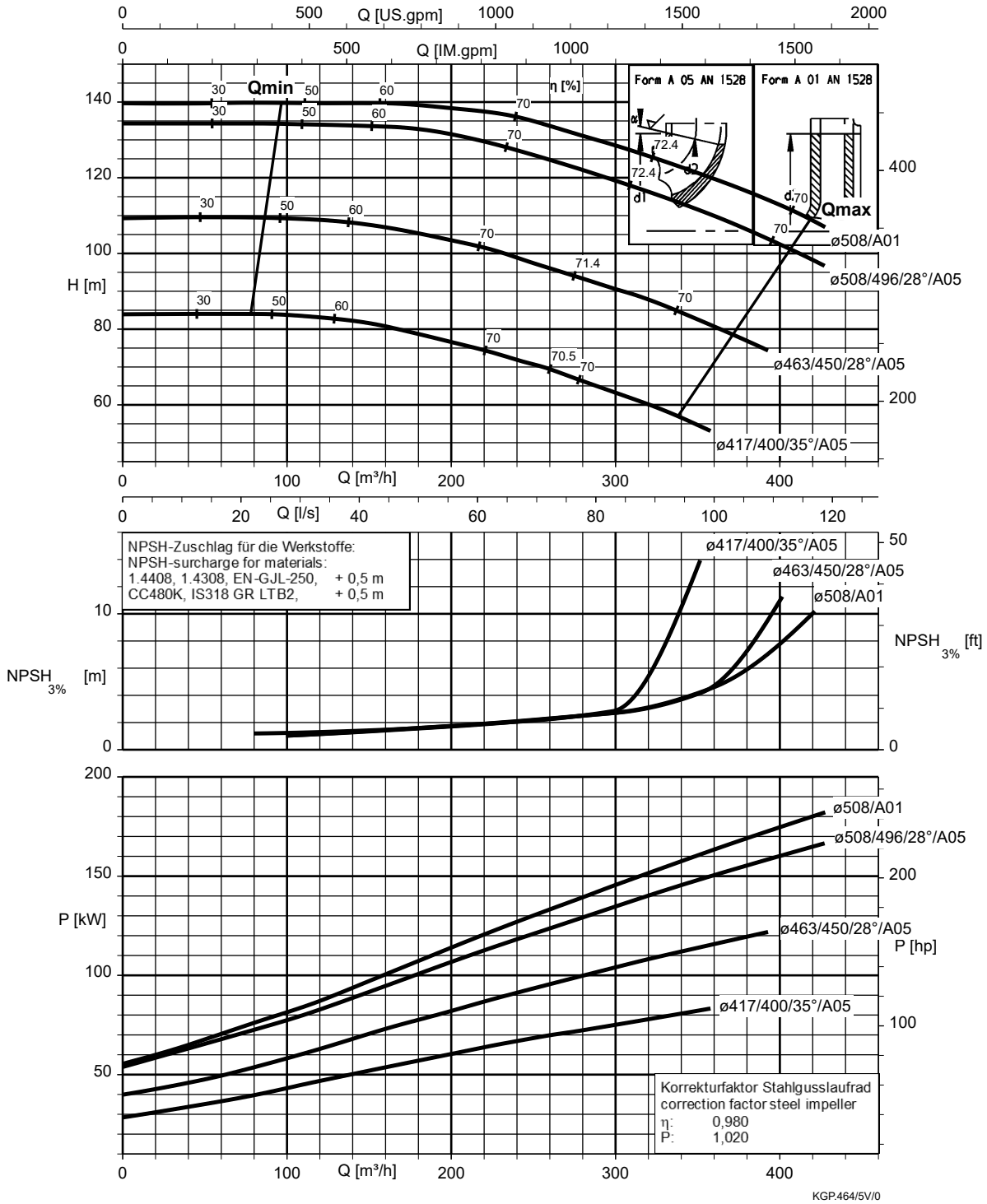
Etanorm 150-125-400, n = 1750 min^{-1}

Etanorm SYT, Etanorm V



1311.46/11-FR

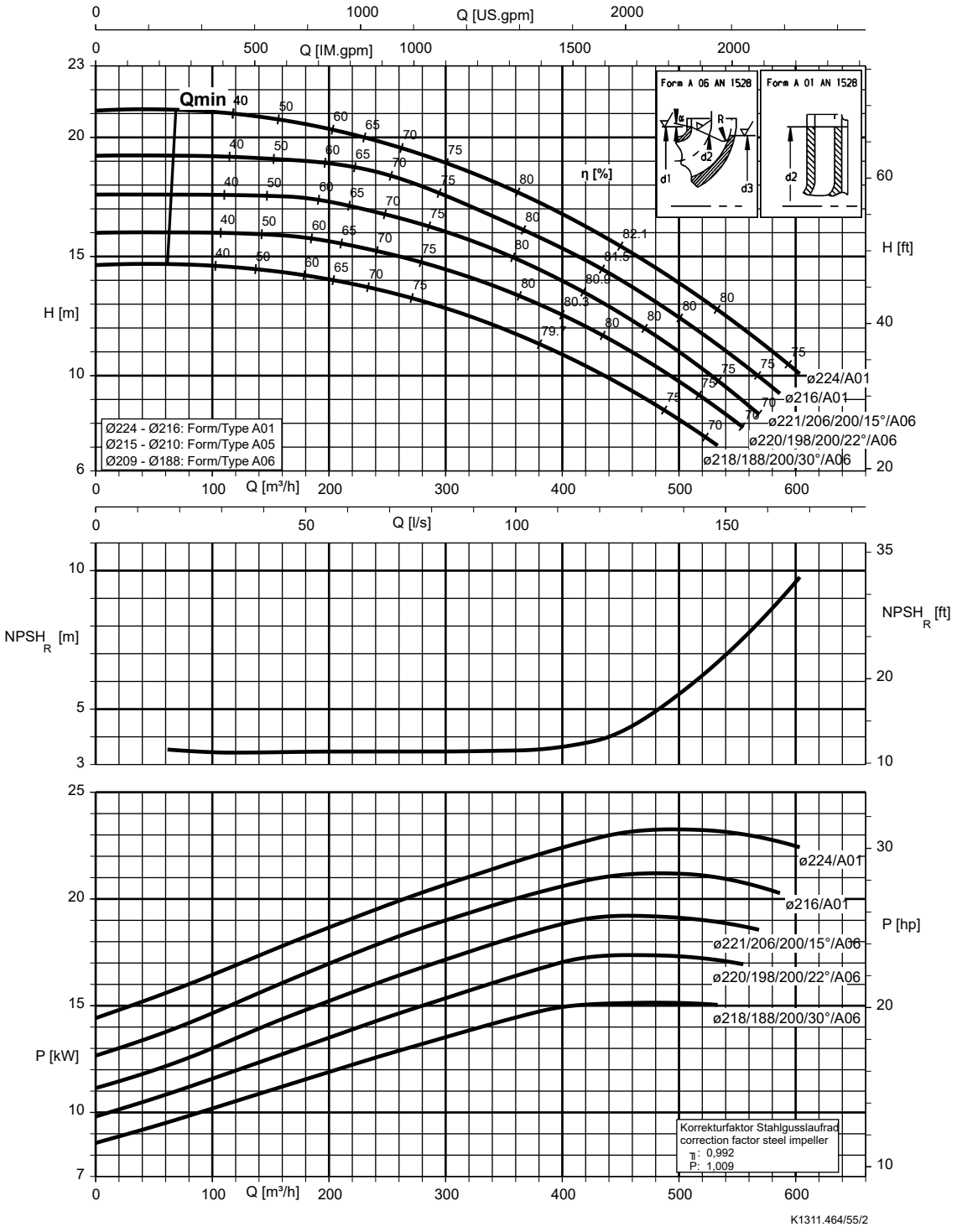
Etanorm 150-125-510, n = 1750 min^{-1}



1311.46/11-FR

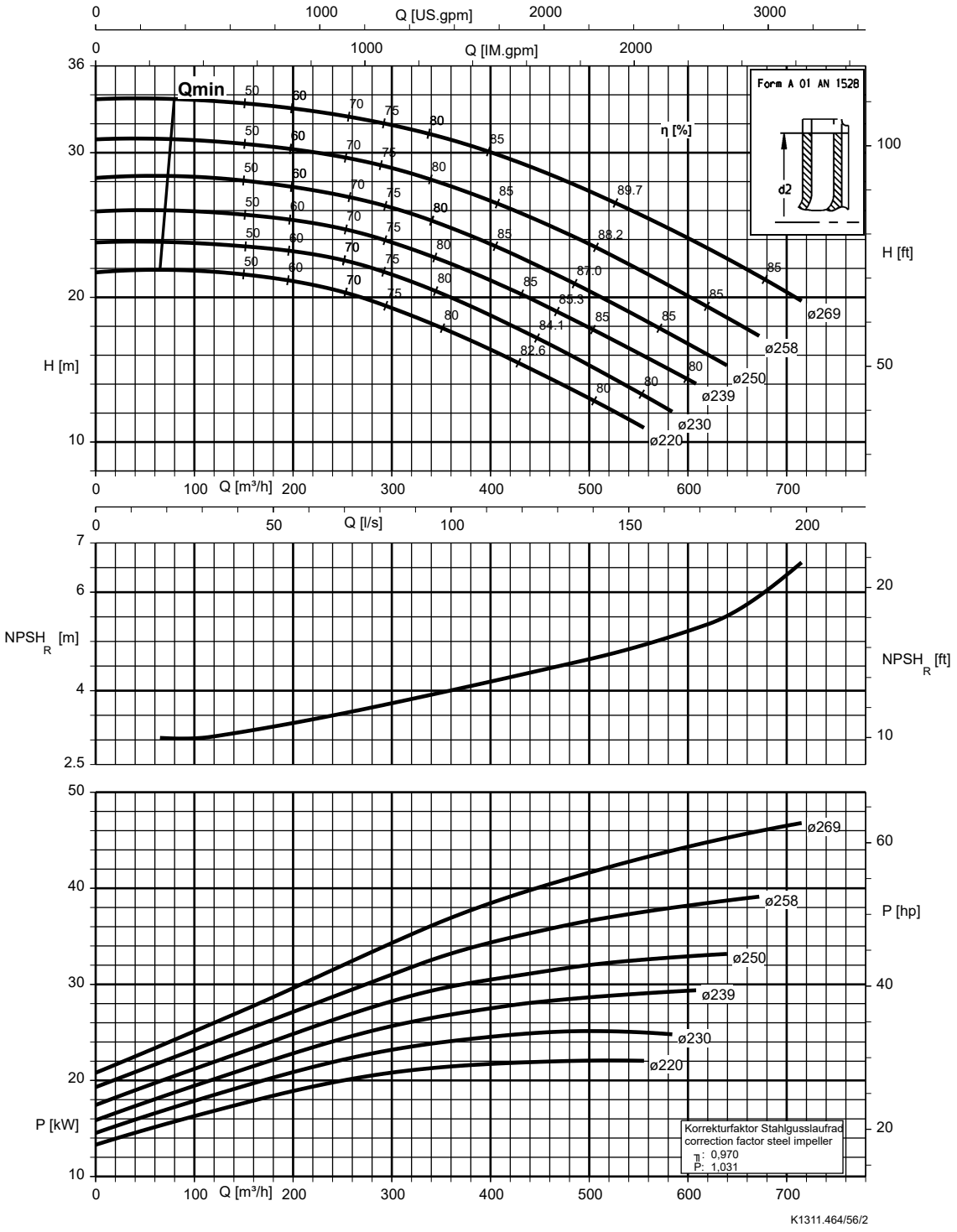
Etanorm 200-150-200, n = 1750 t/min

Etanorm V, Etabloc



Etanorm 200-150-250, n = 1750 t/min

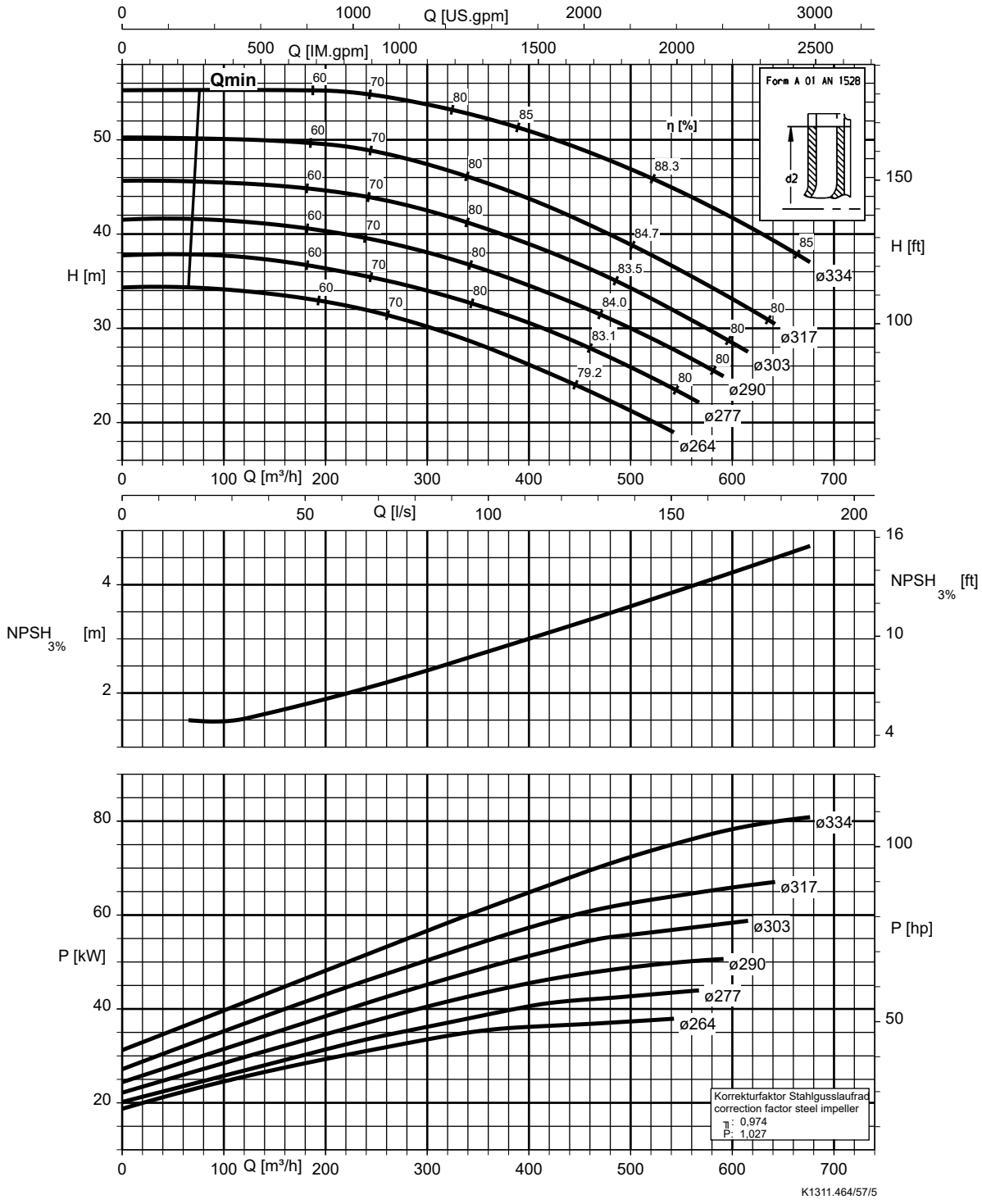
Etanorm V, Etabloc



1311.46/11-FR

Etanorm 200-150-315, n = 1750 t/min

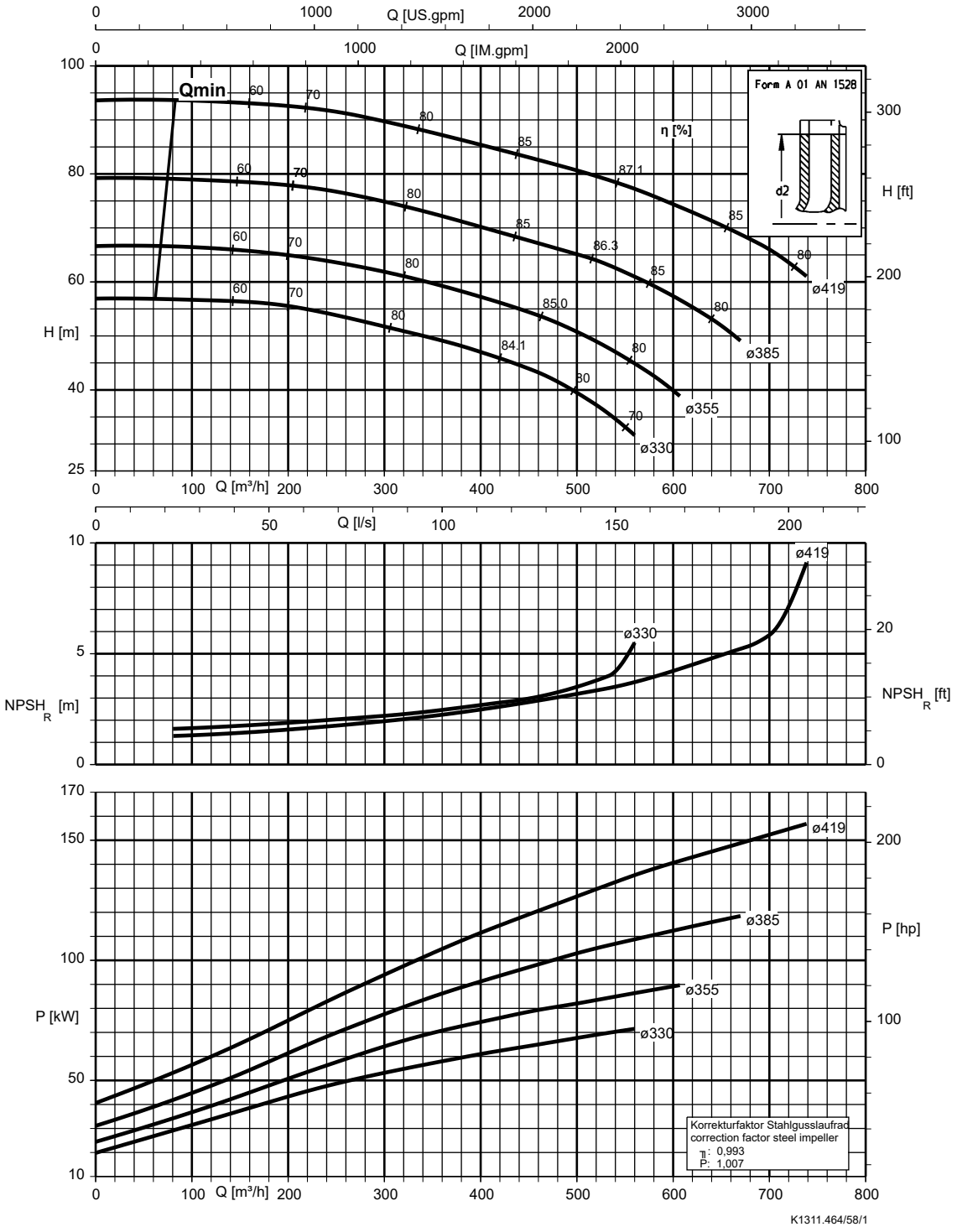
Etanorm SYT, Etanorm V, Etabloc



1311.46/11-FR

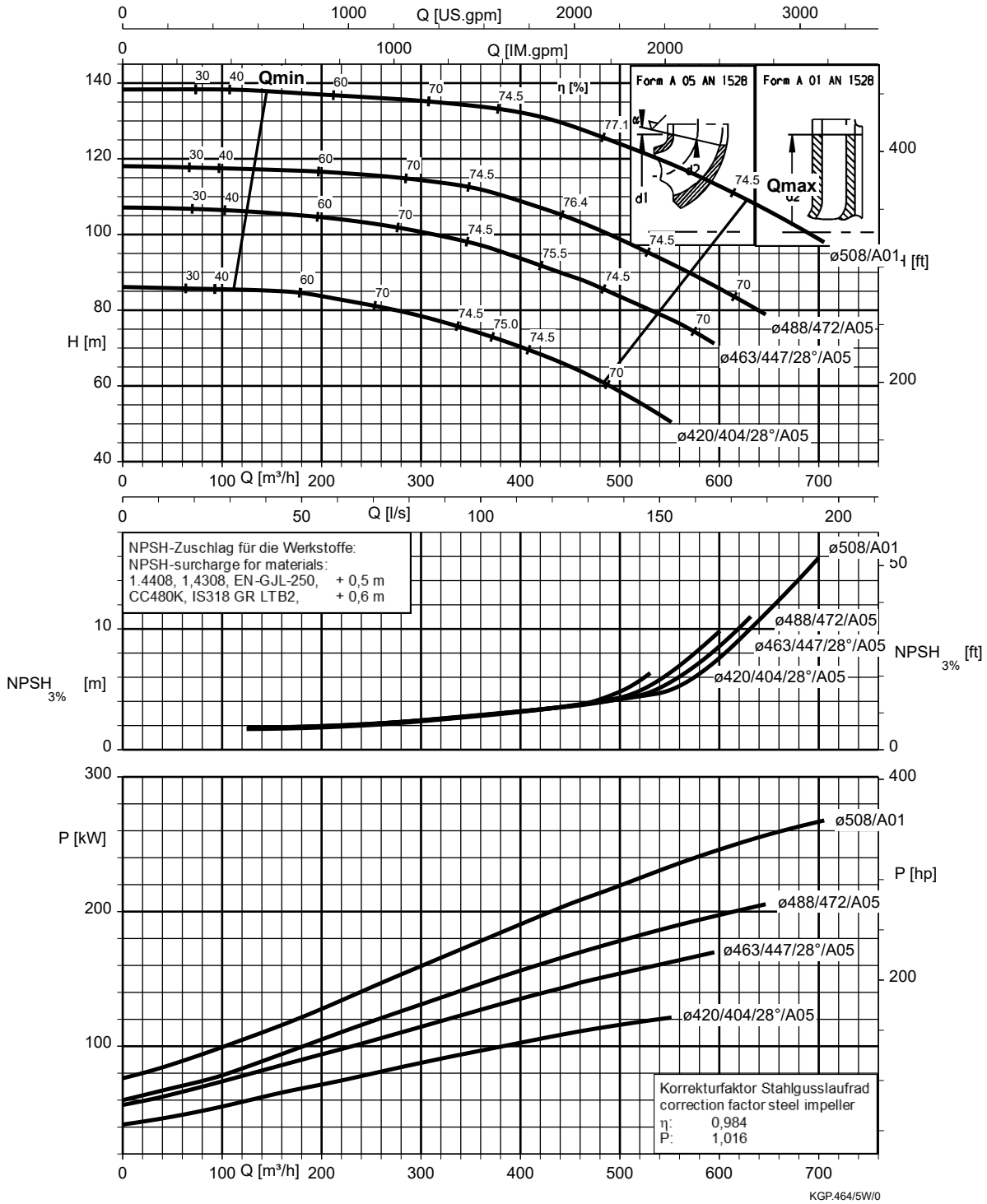
Etanorm 200-150-400, n = 1750 min^{-1}

Etanorm SYT, Etanorm V

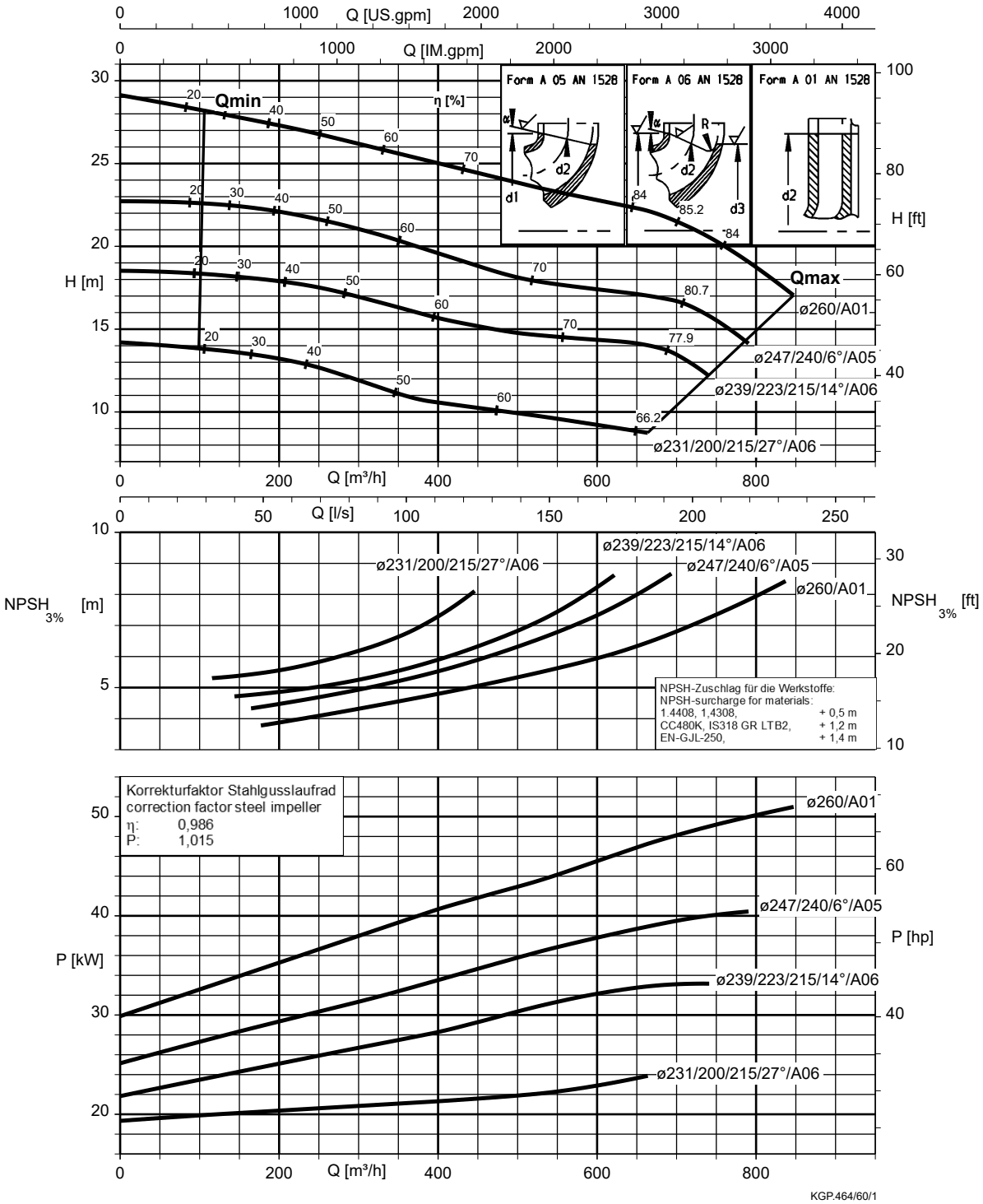


1311.46/11-FR

Etanorm 200-150-510, n = 1750 min^{-1}

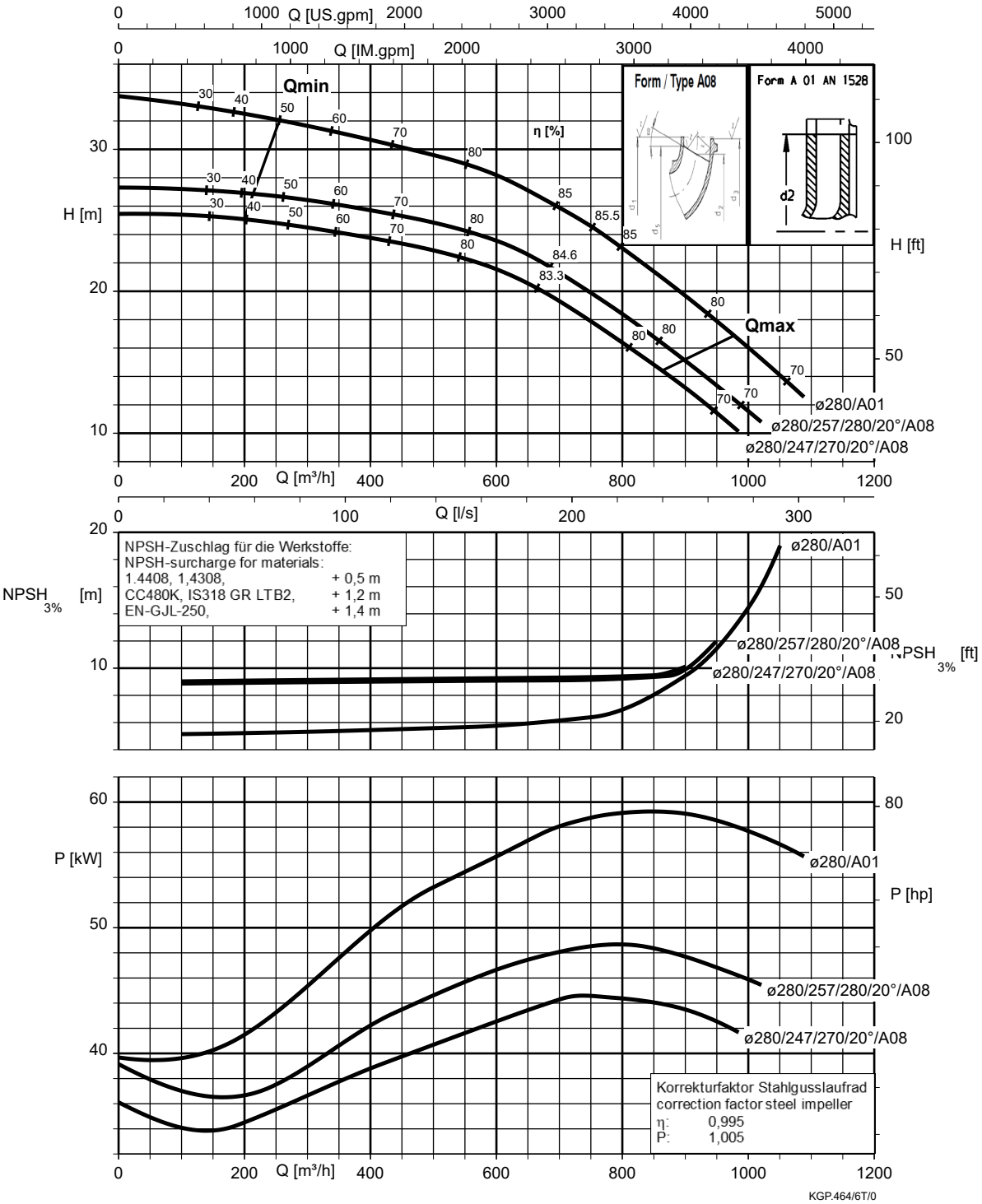


Etanorm 200-200-250, n = 1750 min^{-1}

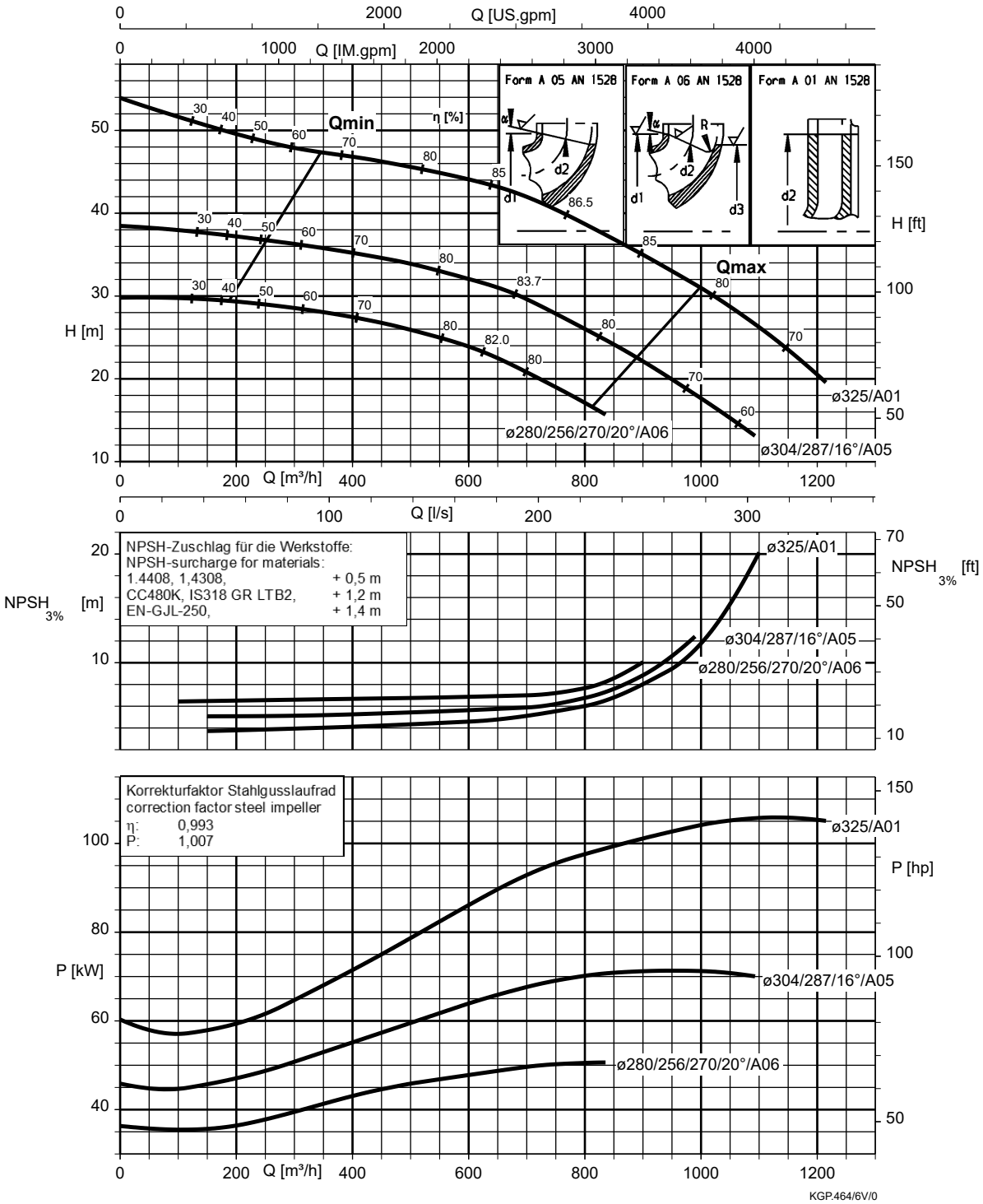


1311.46/11-FR

Etanorm 250-200-275, n = 1750 min^{-1}

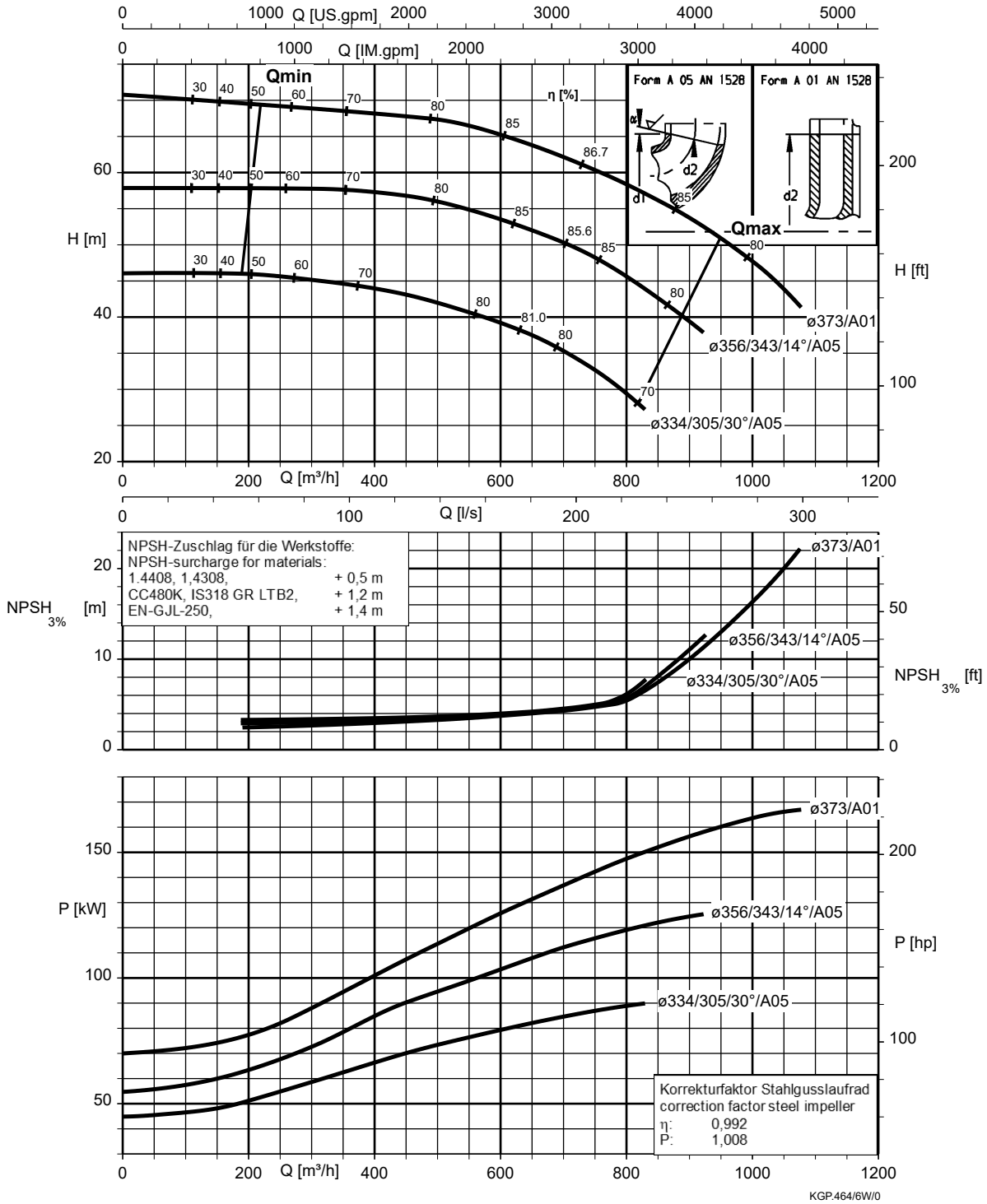


Etanorm 250-200-320, n = 1750 min^{-1}

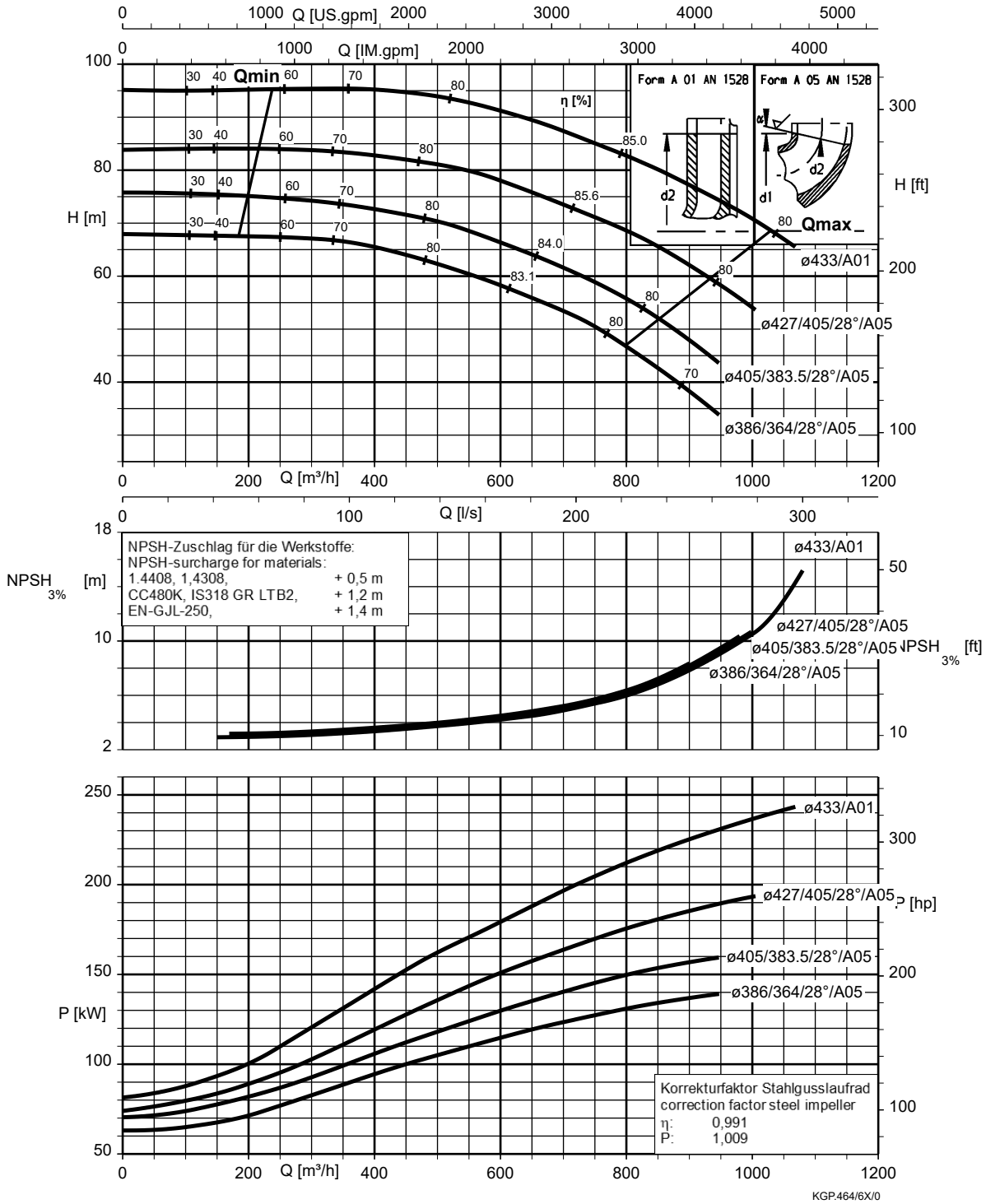


1311.46/11-FR

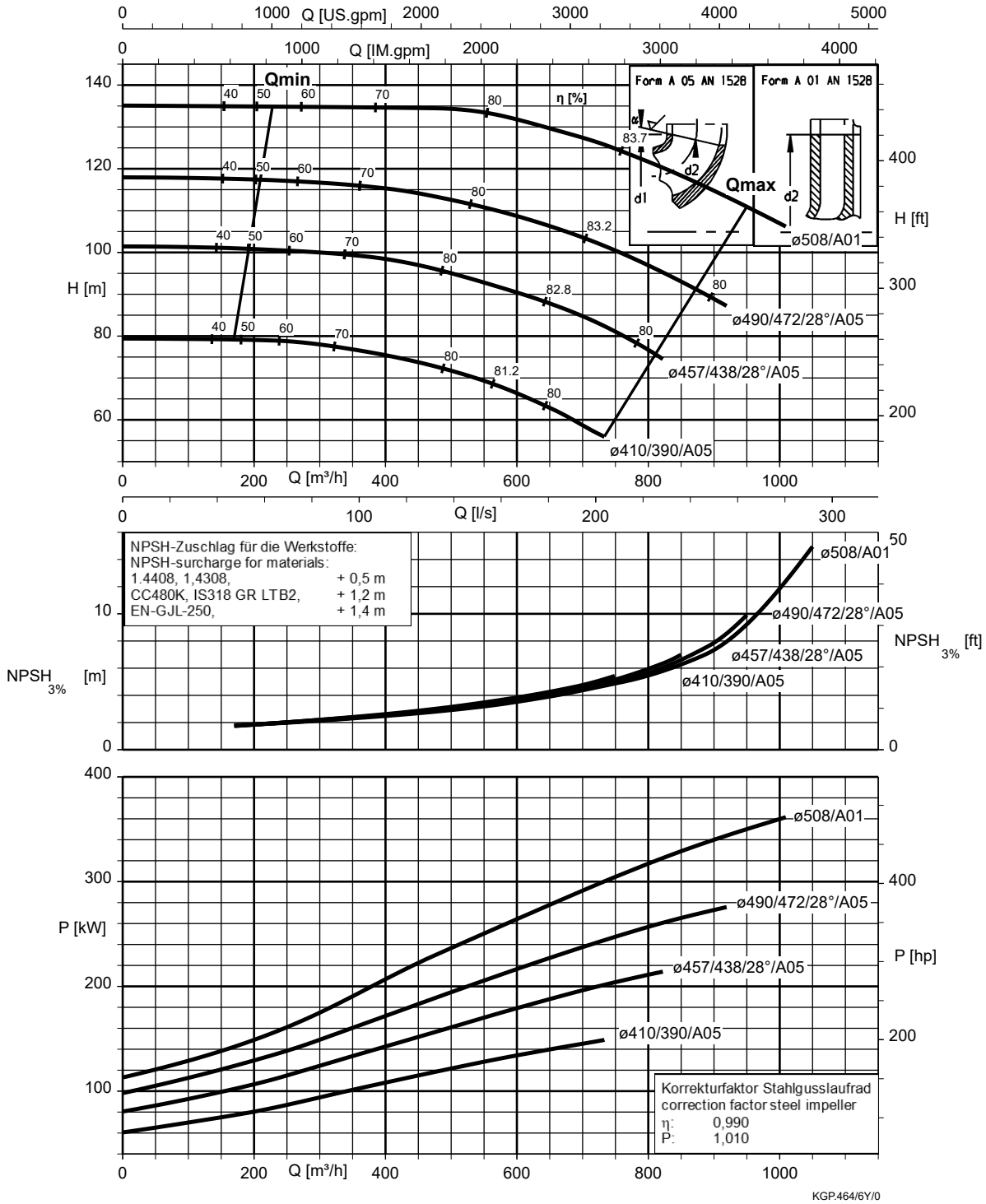
Etanorm 250-200-375, n = 1750 min^{-1}



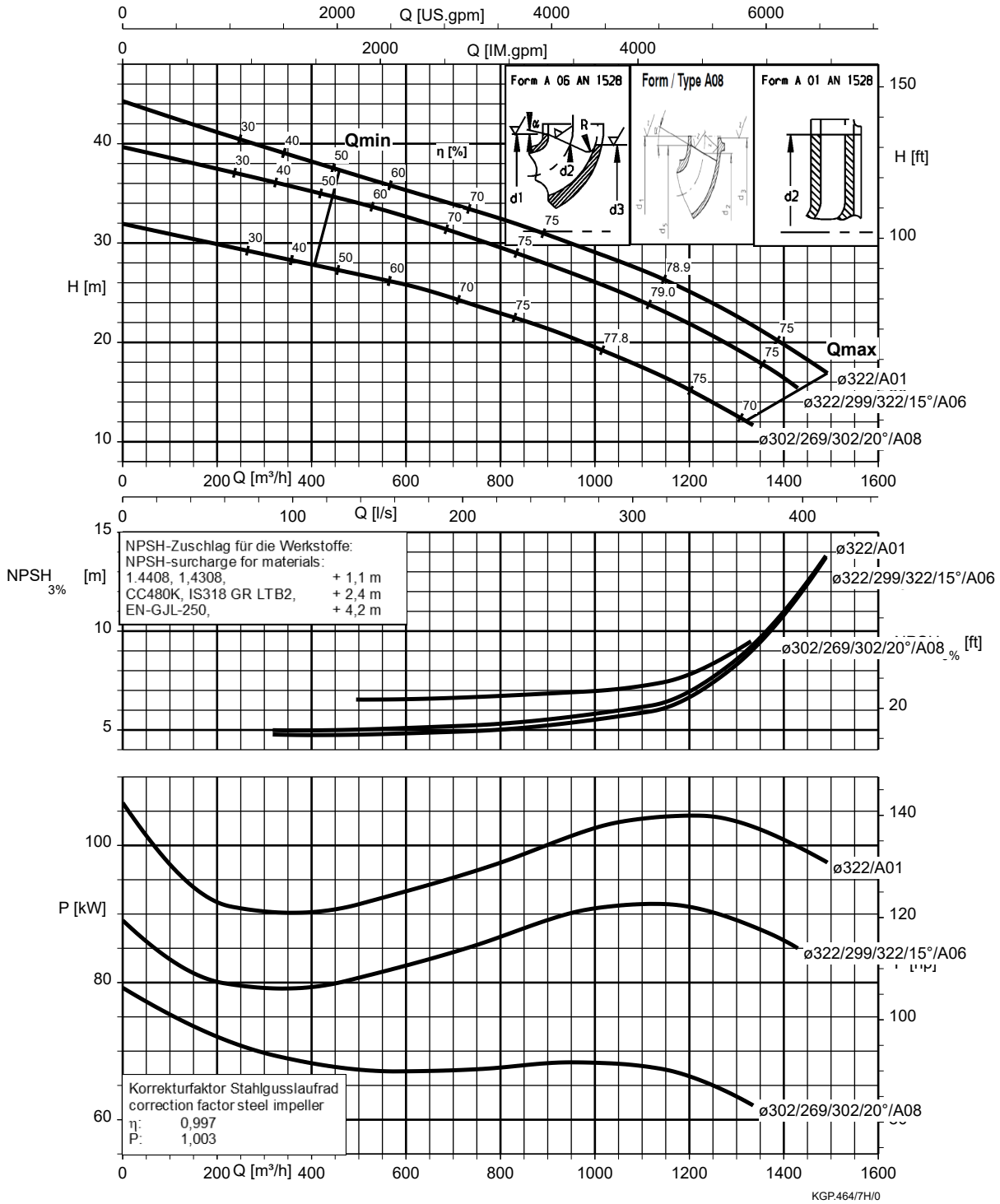
Etanorm 250-200-435 , n = 1750 min^{-1}



Etanorm 250-200-510 , n = 1750 min^{-1}

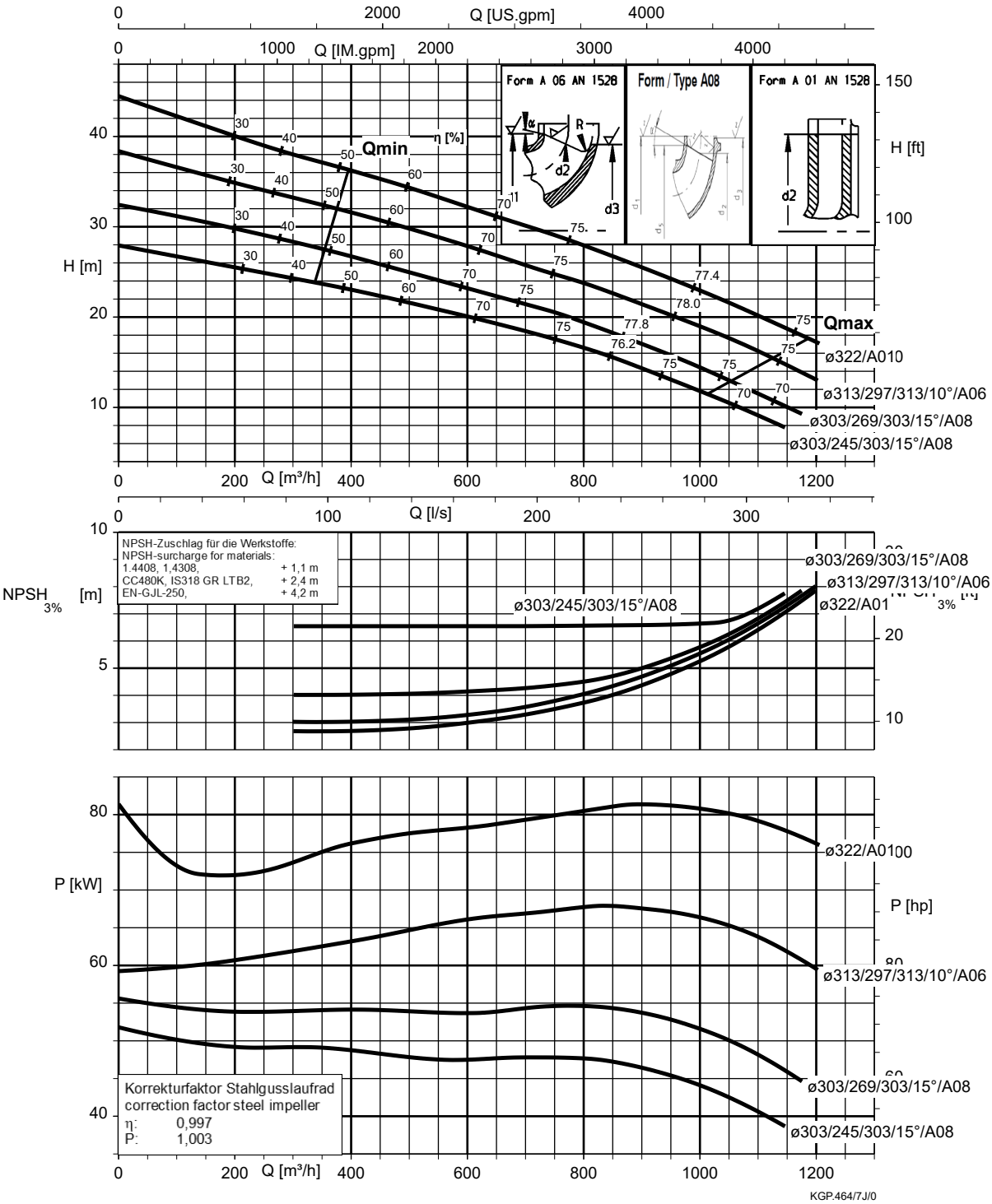


Etanorm 300-250-295, n = 1750 min^{-1}

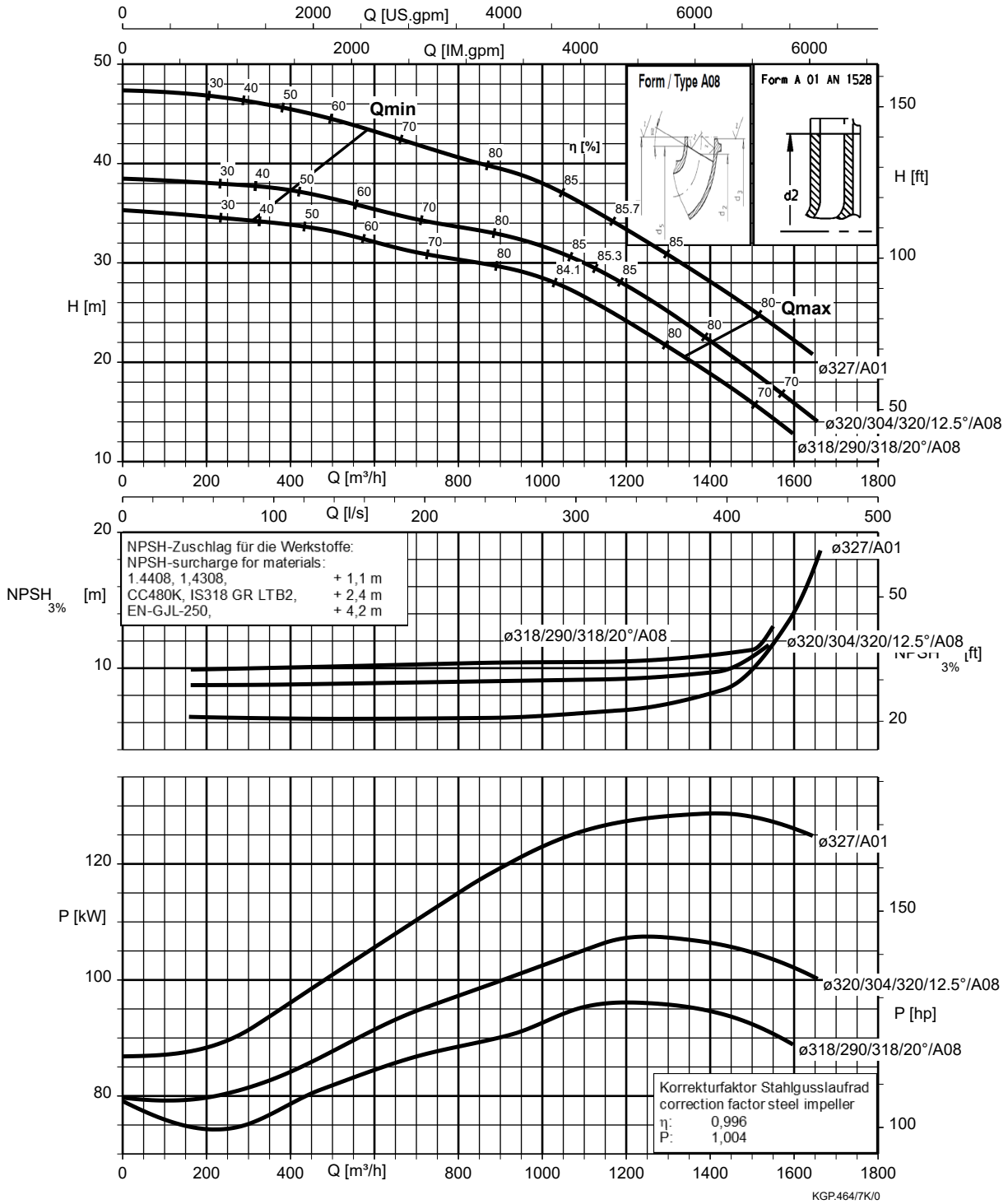


1311.46/11-FR

Etanorm 300-250-295.1 , n = 1750 min^{-1}

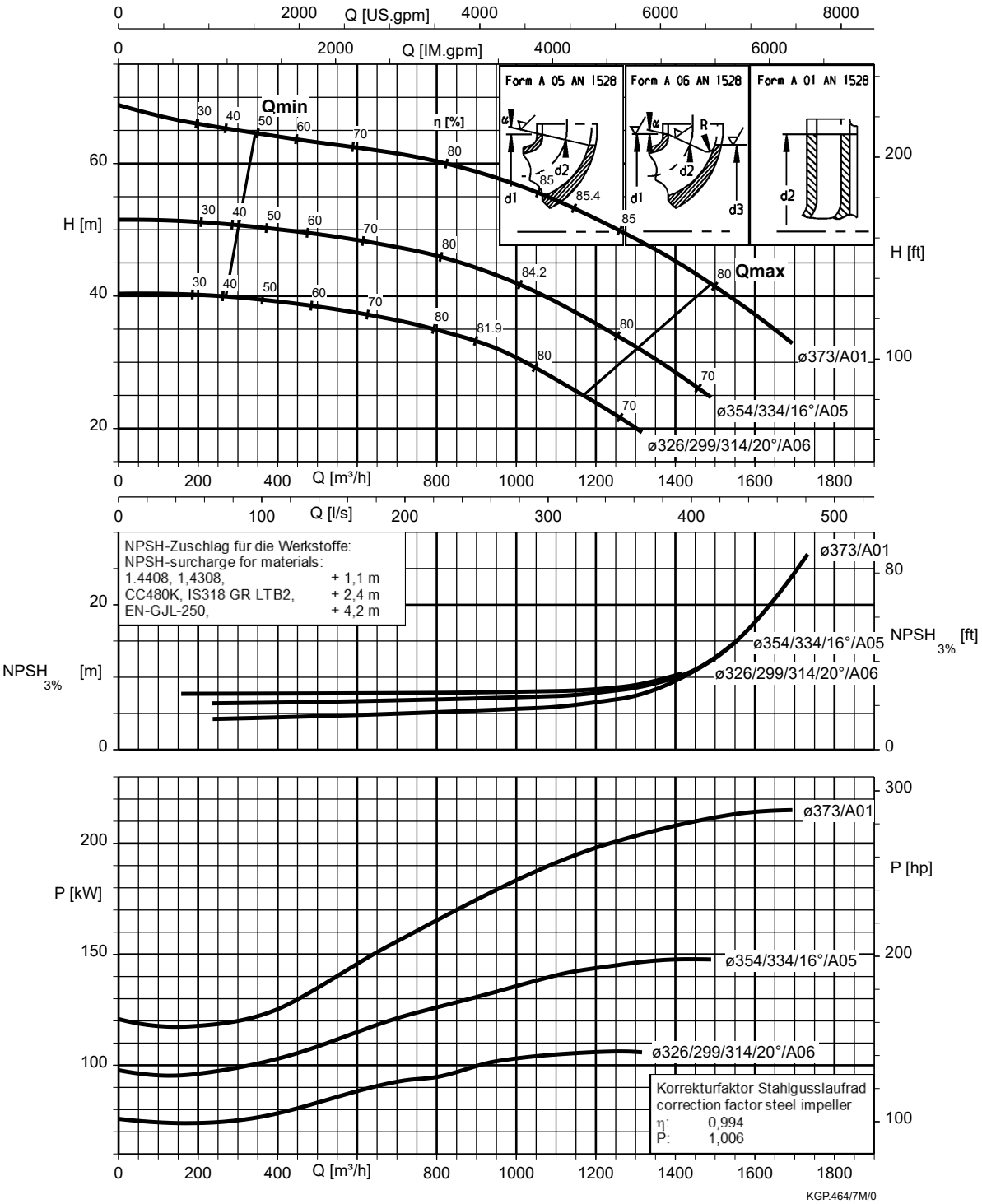


Etanorm 300-250-320 , n = 1750 min^{-1}

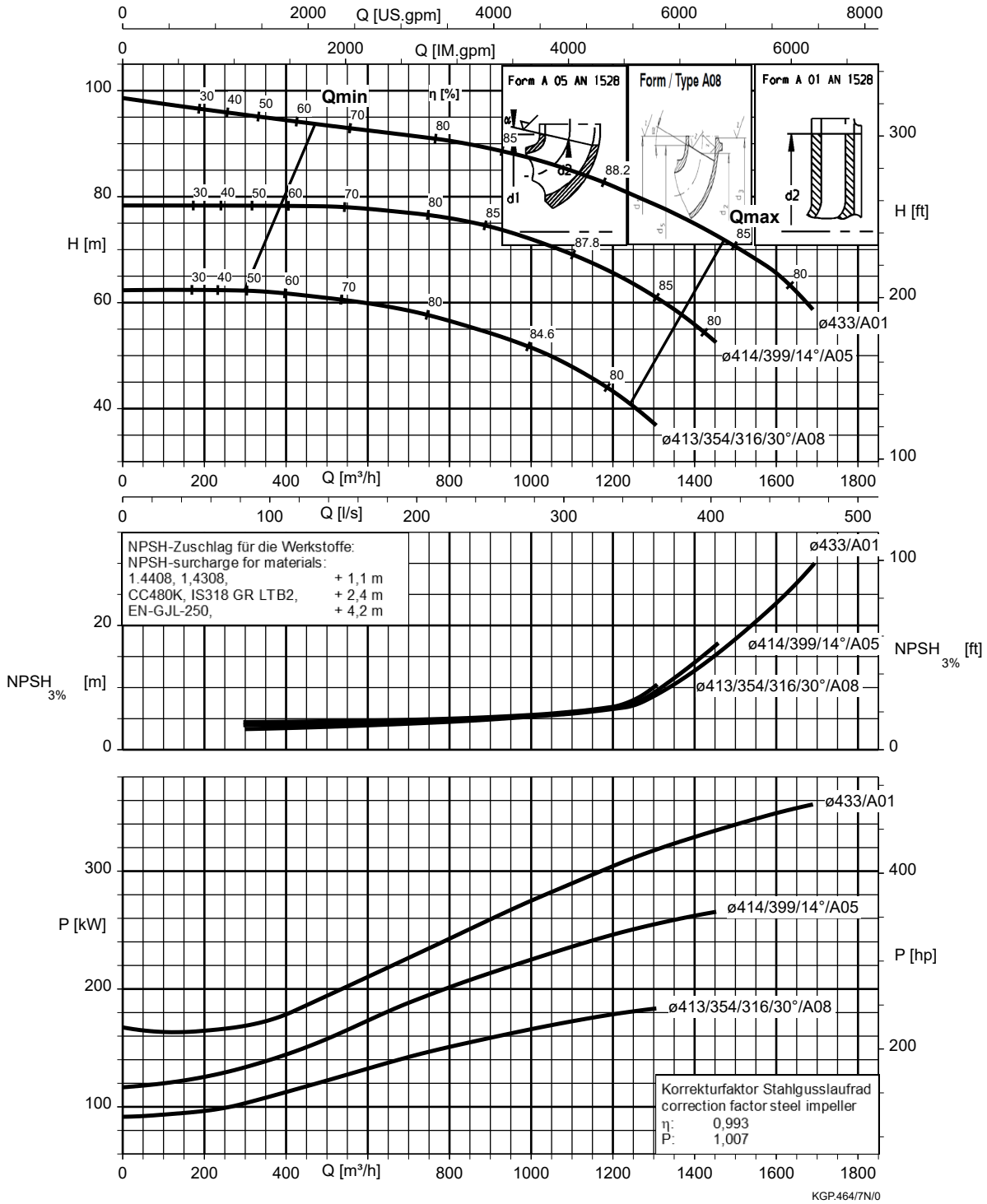


1311.46/11-FR

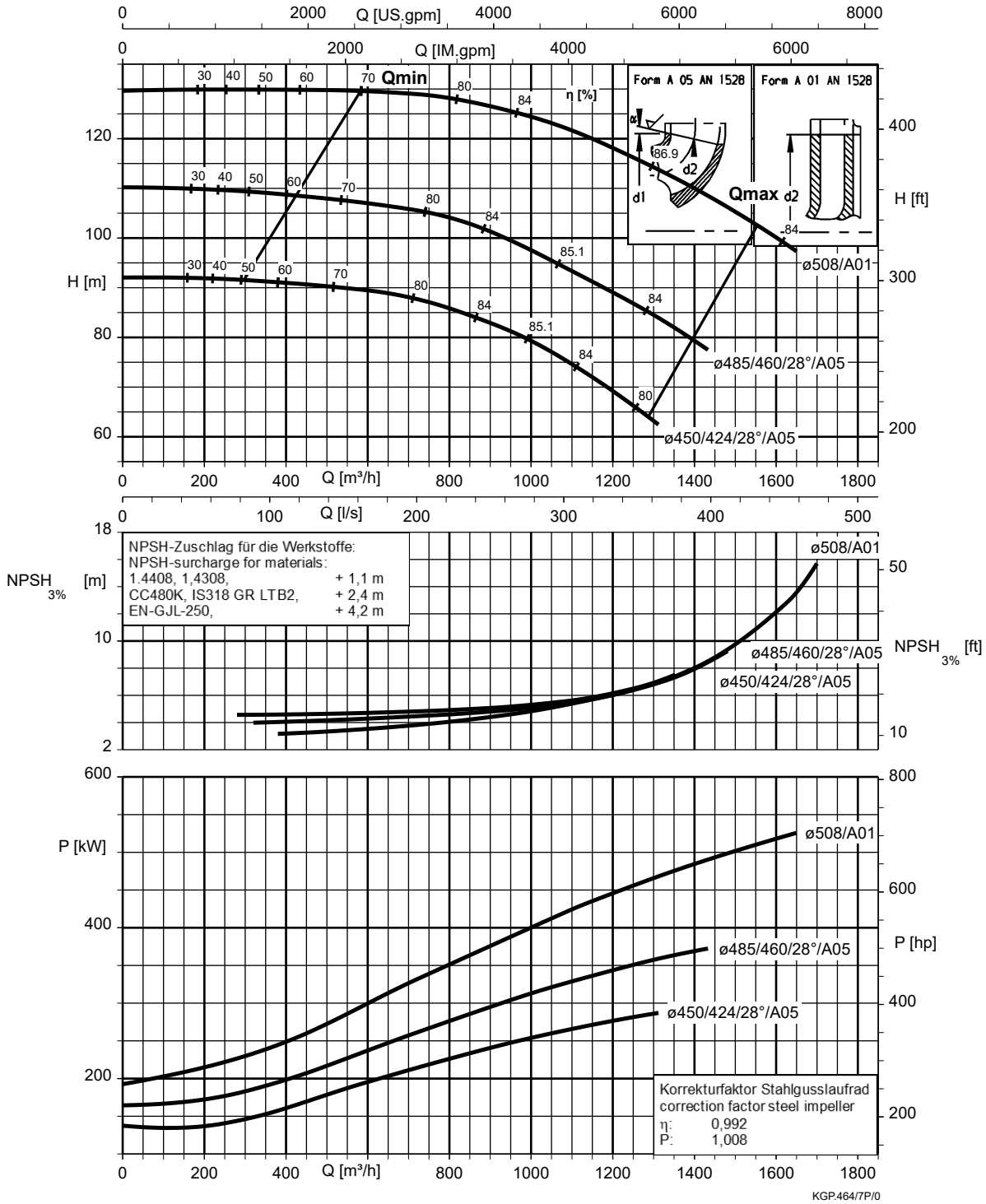
Etanorm 300-250-375, n = 1750 min^{-1}



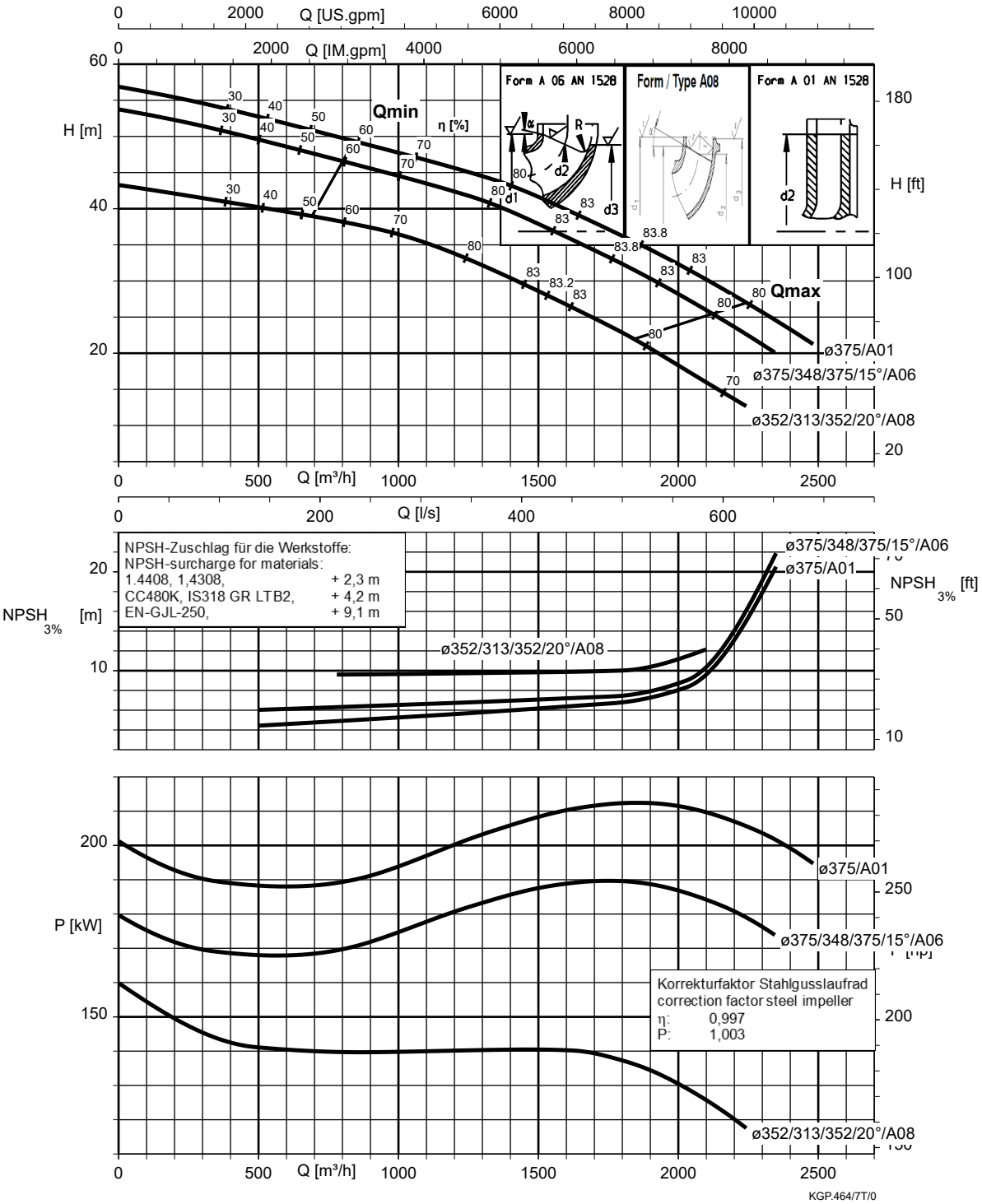
Etanorm 300-250-435, n = 1750 min^{-1}



Etanorm 300-250-510, n = 1750 min^{-1}

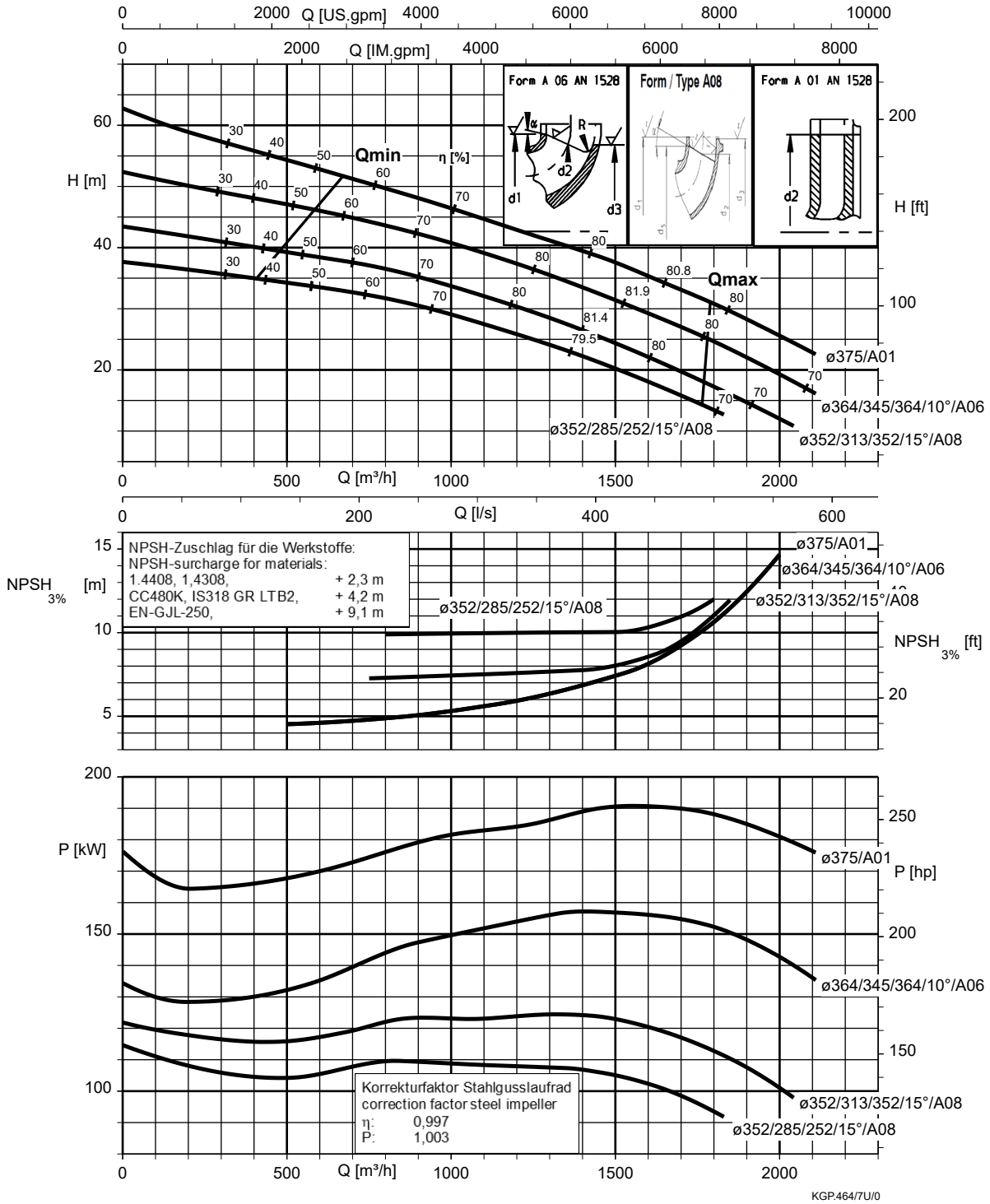


Etanorm 350-300-350, n = 1750 min^{-1}

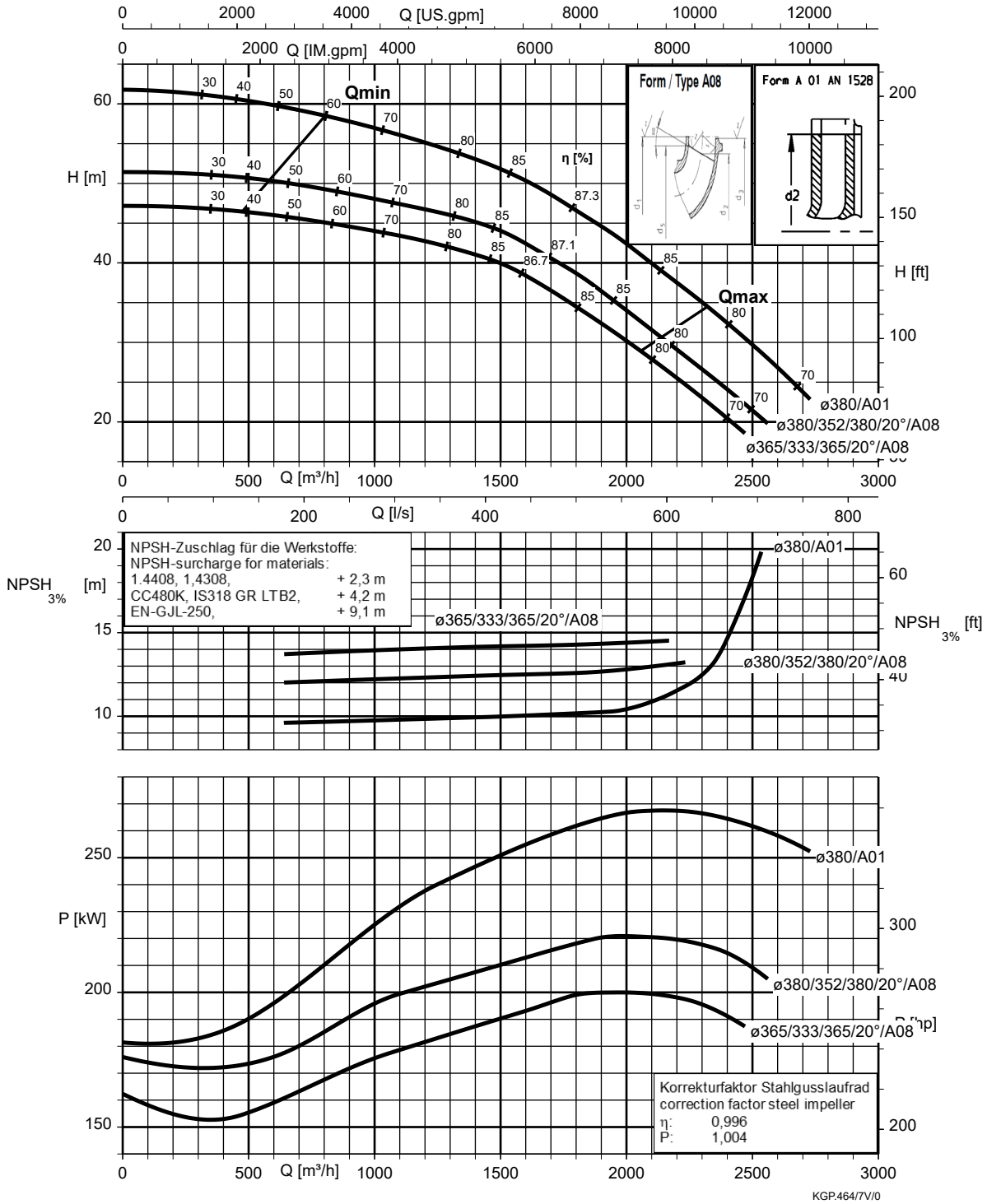


1311.46/11-FR

Etanorm 350-300-350.1 , n = 1750 min^{-1}

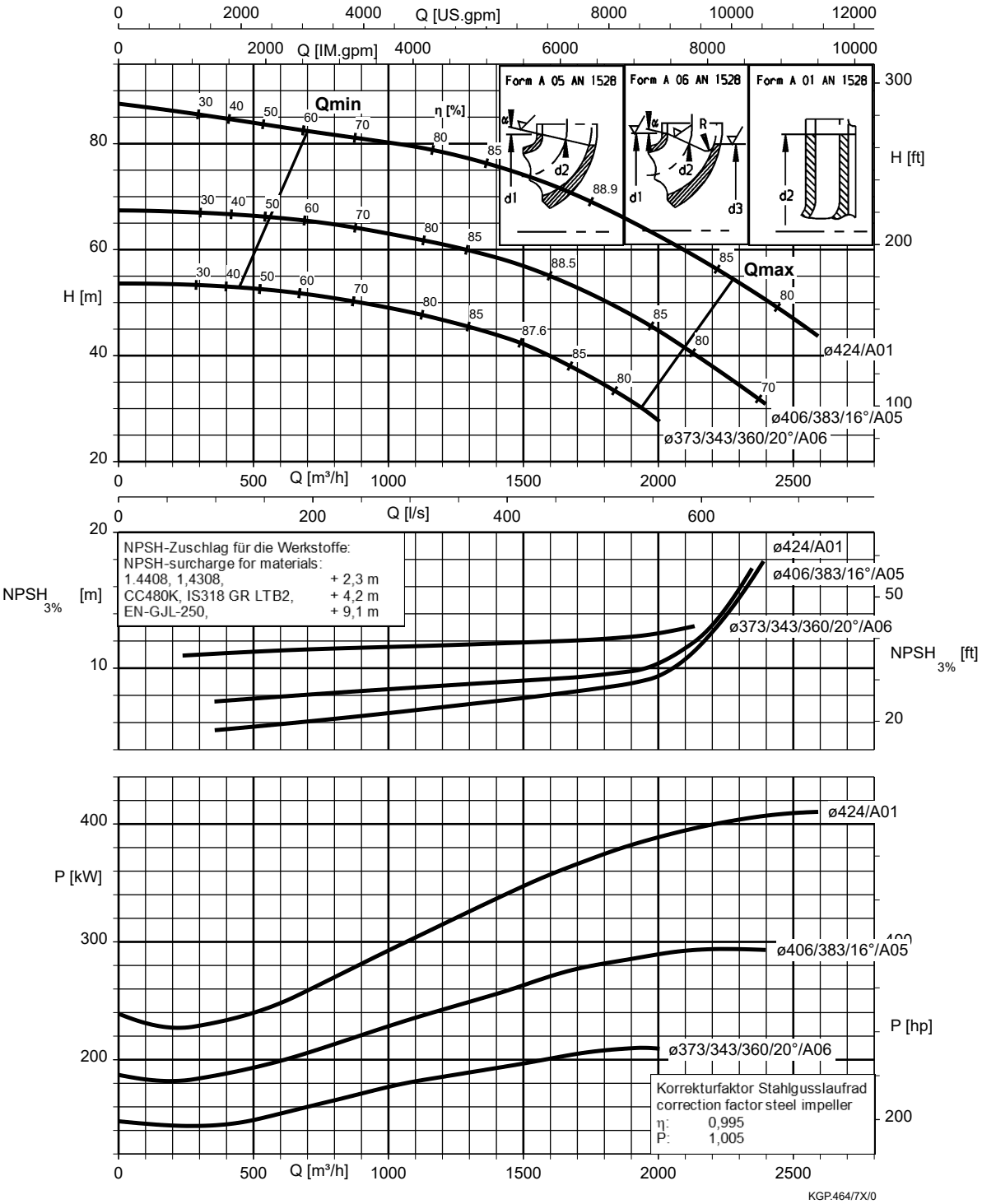


Etanorm 350-300-375, n = 1750 min^{-1}

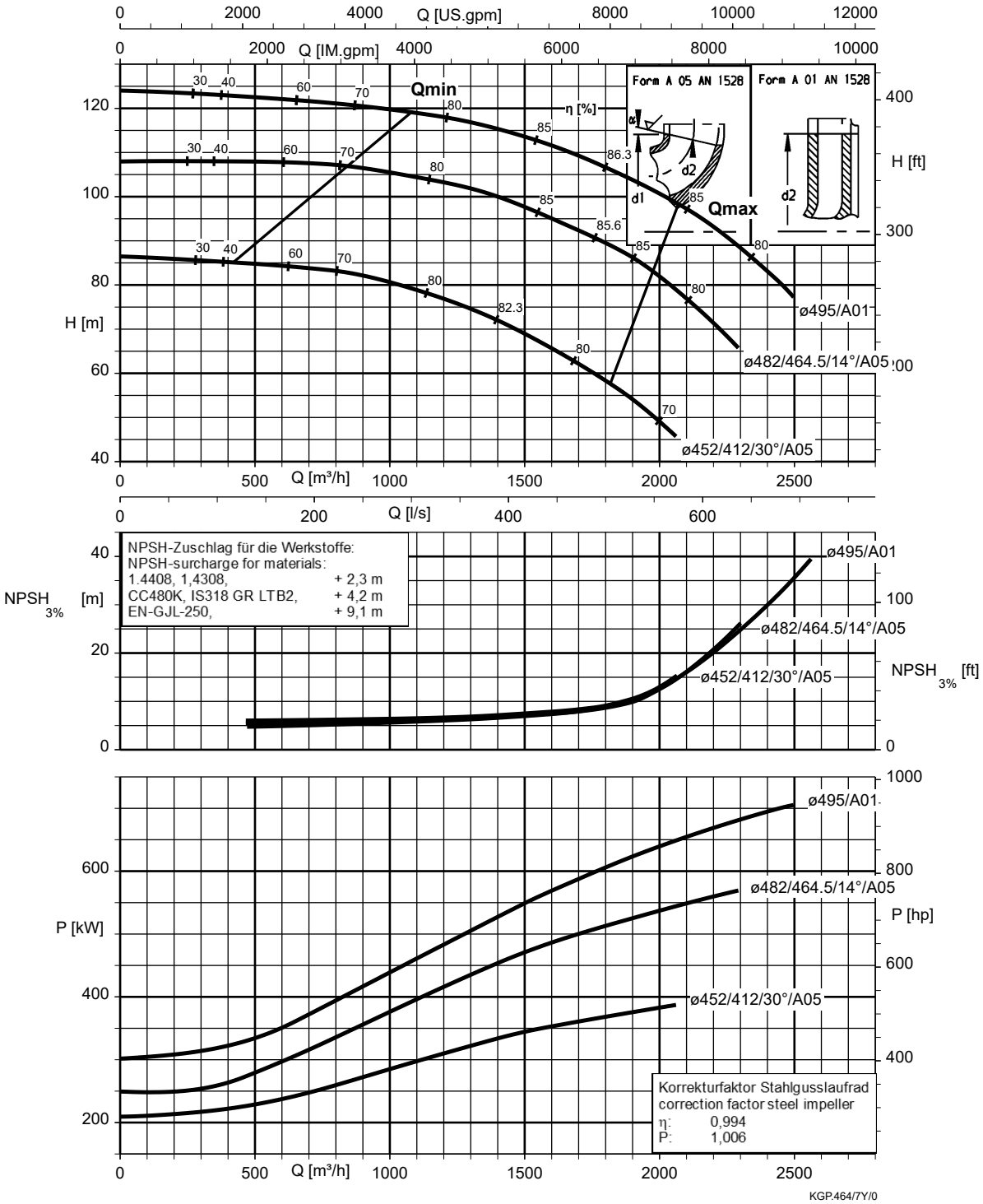


1311.46/11-FR

Etanorm 350-300-435 , n = 1750 min^{-1}



Etanorm 350-300-510 , n = 1750 min^{-1}



1311.46/11-FR

Etanorm-R 200-250, n = 1750 t/min

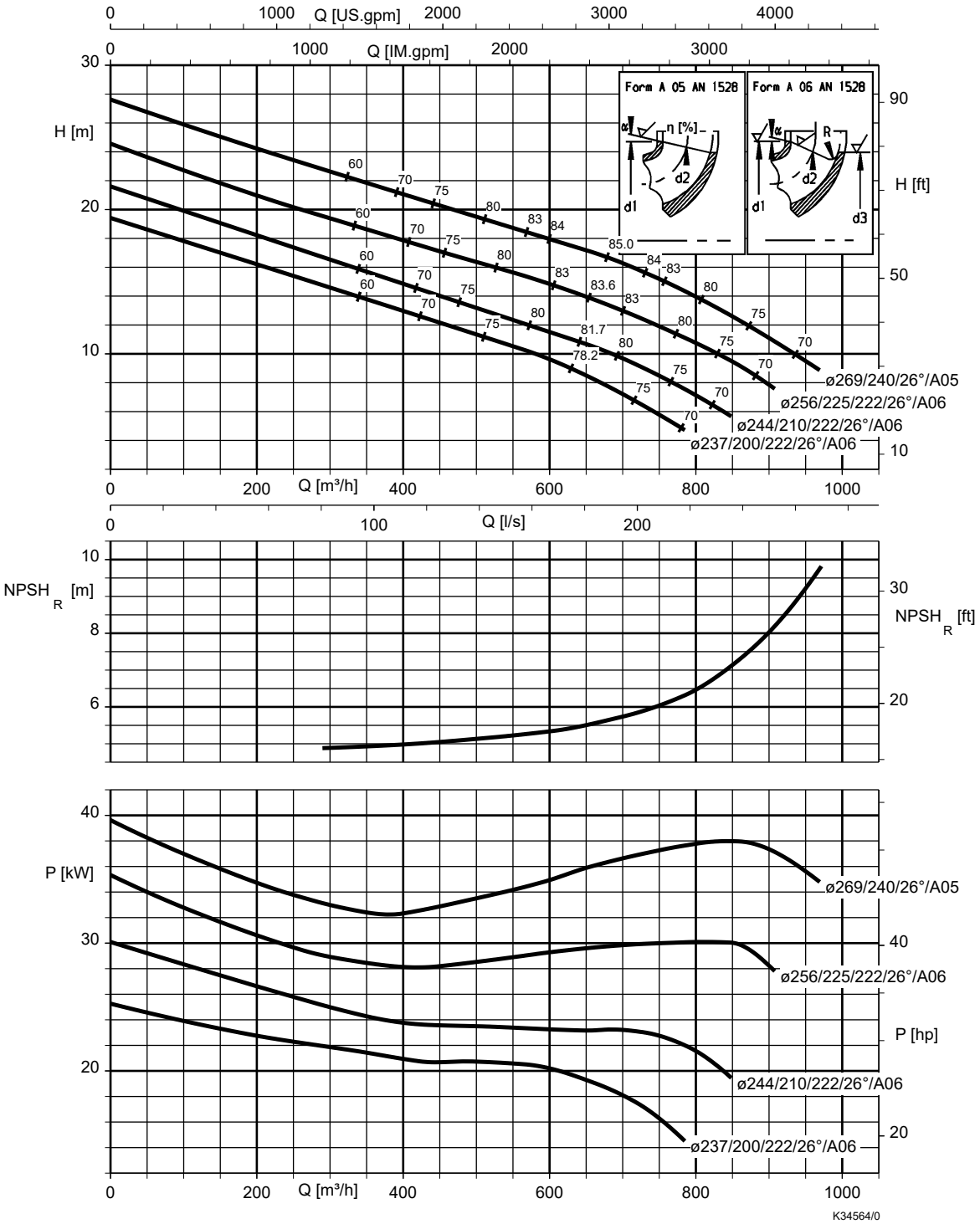


Tableau 3: Valeurs de correction

Matériau de la roue	Valeurs de correction S [m]	Calcul
EN-GJL-250	4,0	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	2,2	
1.4408	0,5	

Etanorm-R 200-260, n = 1750 t/min

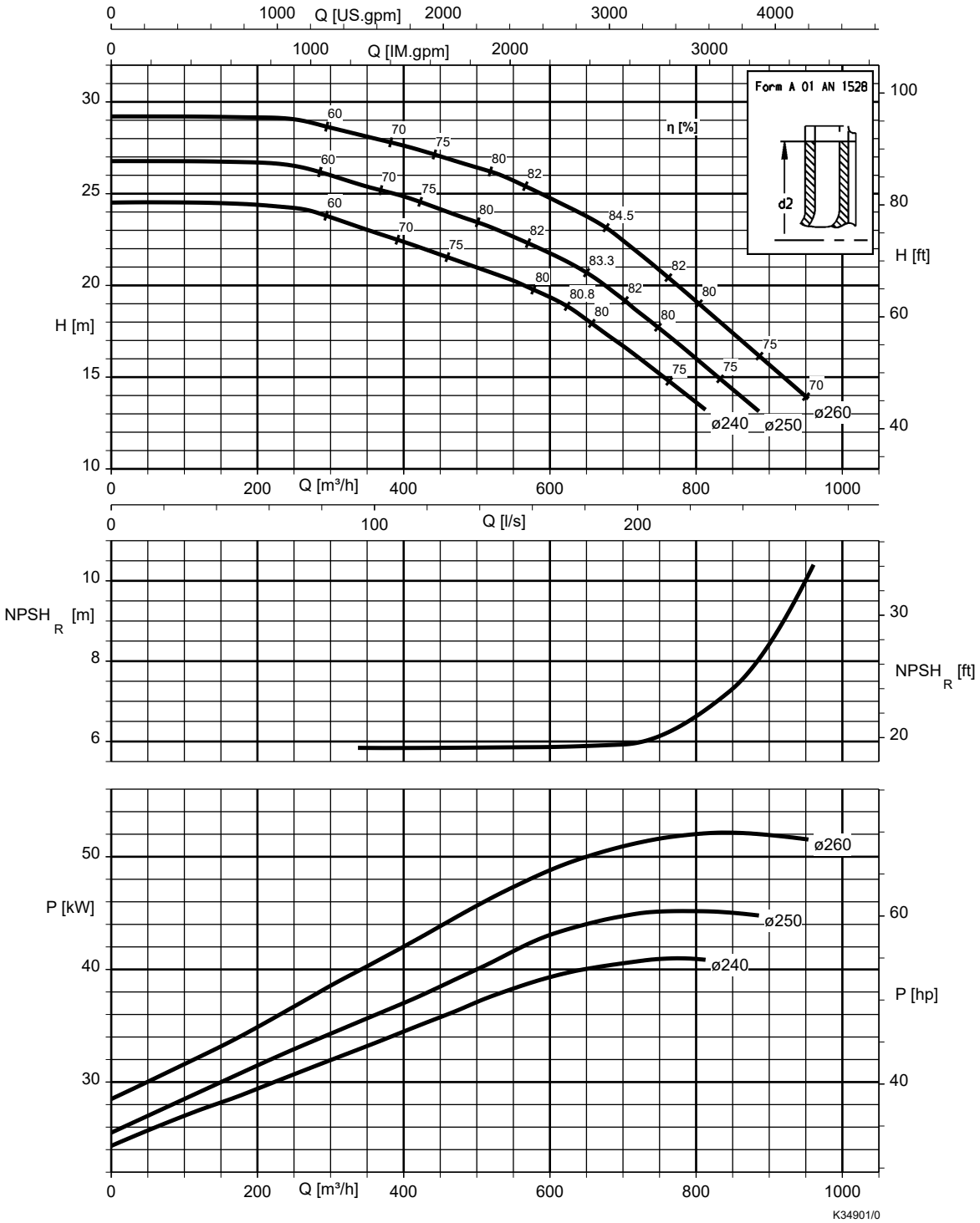


Tableau 4: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	0,5	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	0,5	
1.4408	0,5	

1311.46/11-FR

Etanorm-R 200-330, n = 1750 t/min

Etanorm-RSY

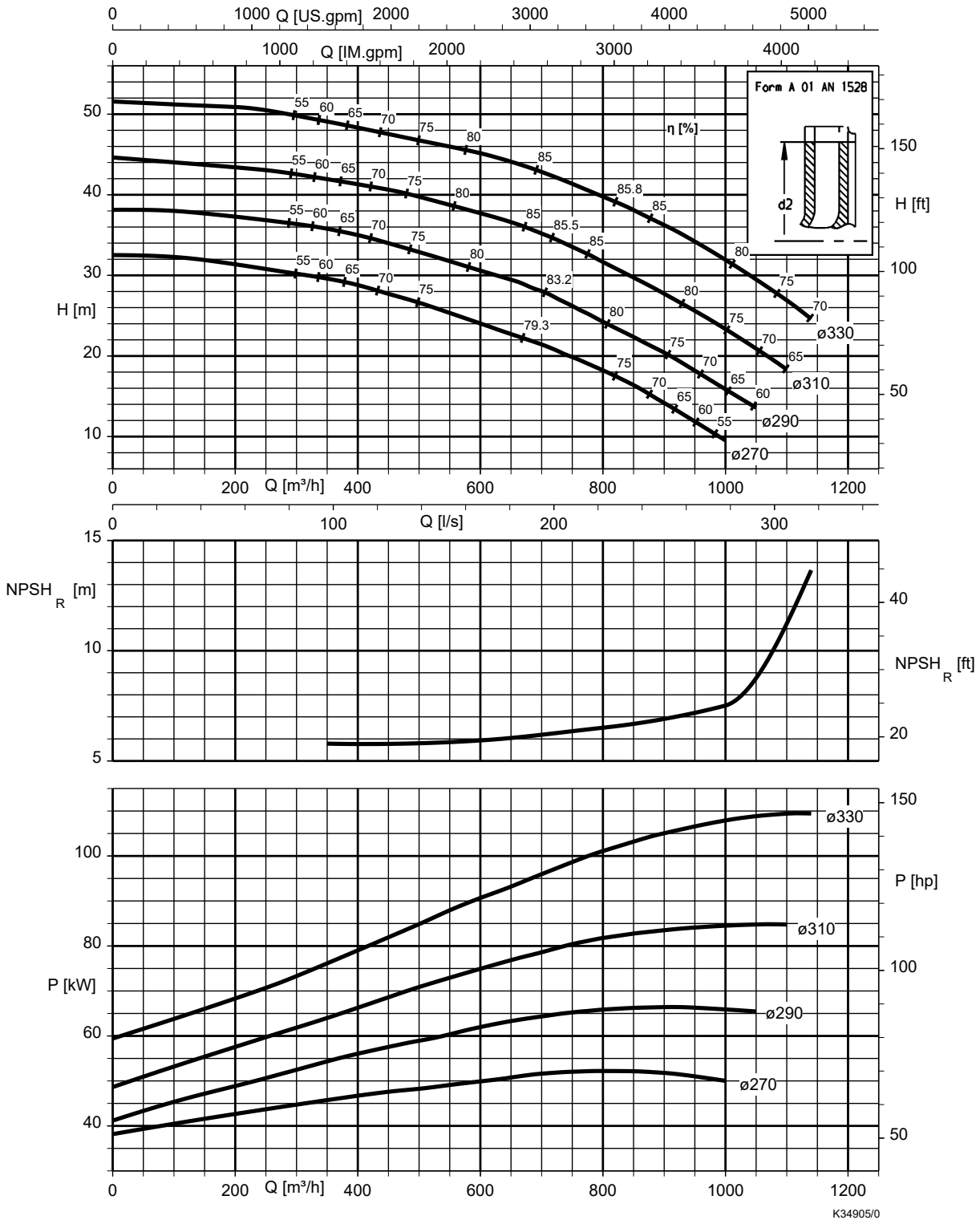


Tableau 5: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	0,5	$NPSH_{installation} \geq NPSH + valeur\ de\ correction\ S$
CC480K-GS	0,5	
1.4408	0,5	

Etanorm-R 200-400, n = 1750 t/min

Etanorm-RSY

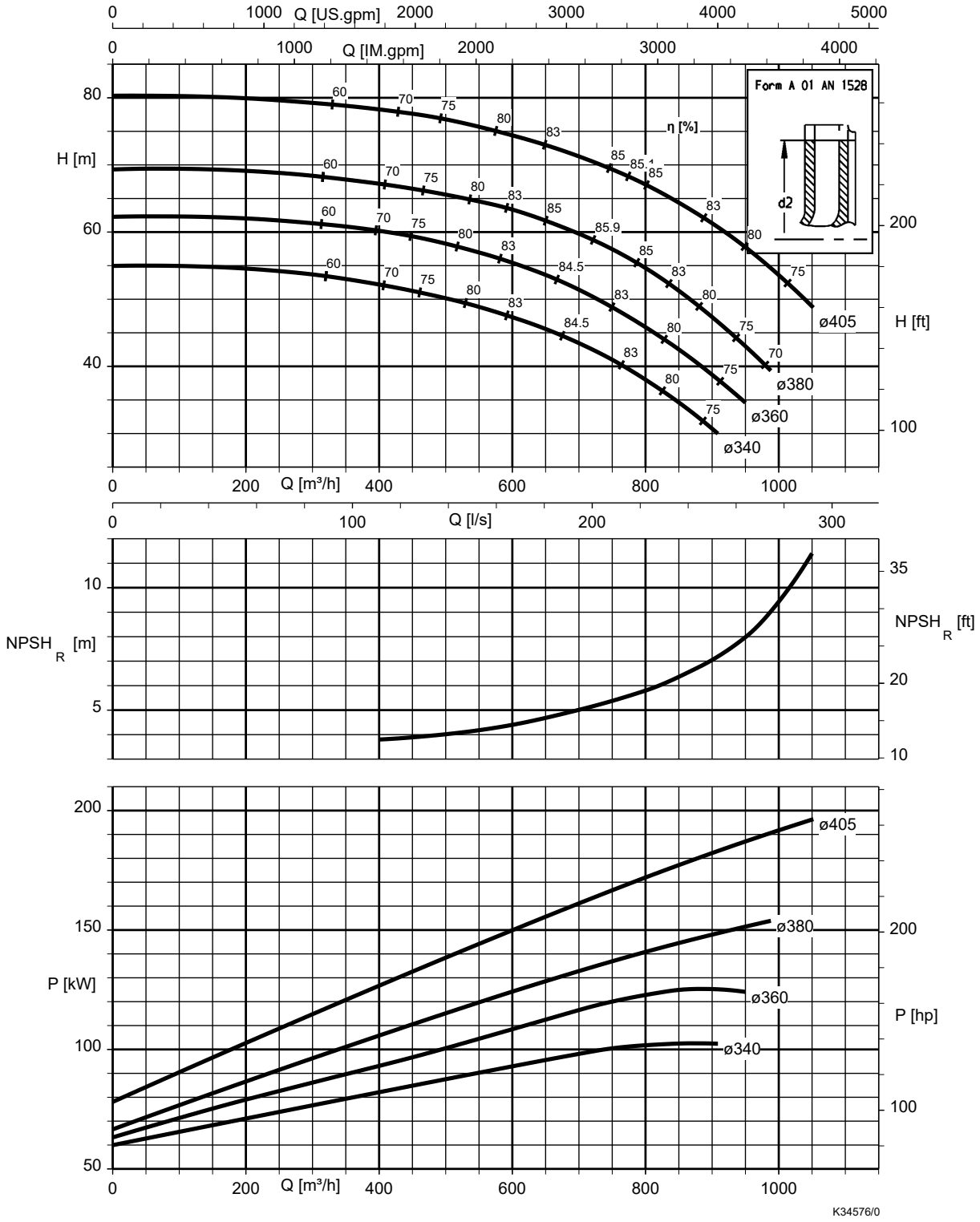


Tableau 6: Valeurs de correction

Matériau de la roue	Valeurs de correction S [m]	Calcul
EN-GJL-250	3,0	$NPSH_{installation} \geq NPSH + valeur\ de\ correction\ S$
CC480K-GS	1,6	
1.4408	0,5	

1311.46/11-FR

Etanorm-R 250-300, n = 1750 t/min

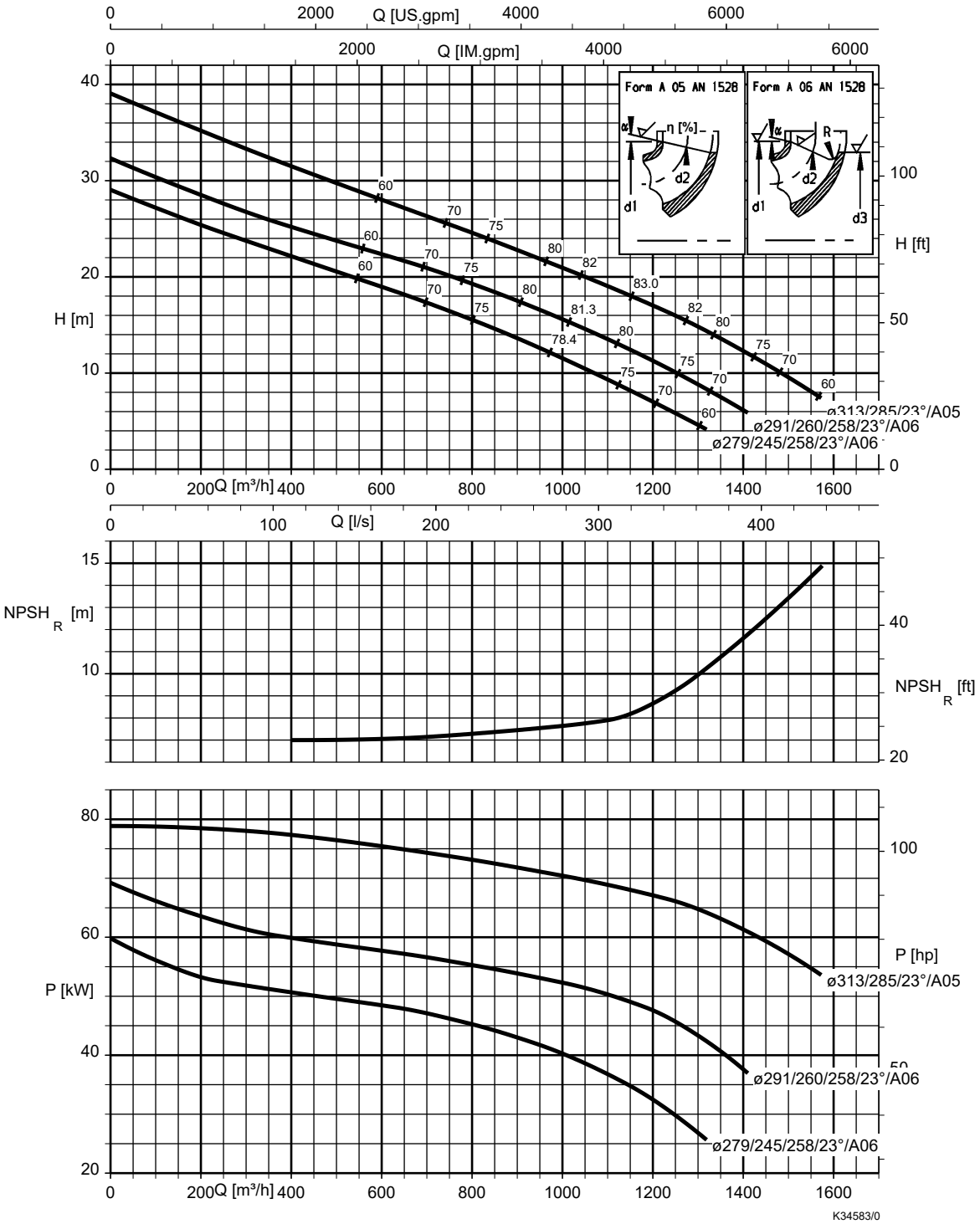


Tableau 7: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	2,6	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	1,4	
1.4408	0,5	

Etanorm-R 250-330, n = 1750 t/min

Etanorm-RSY

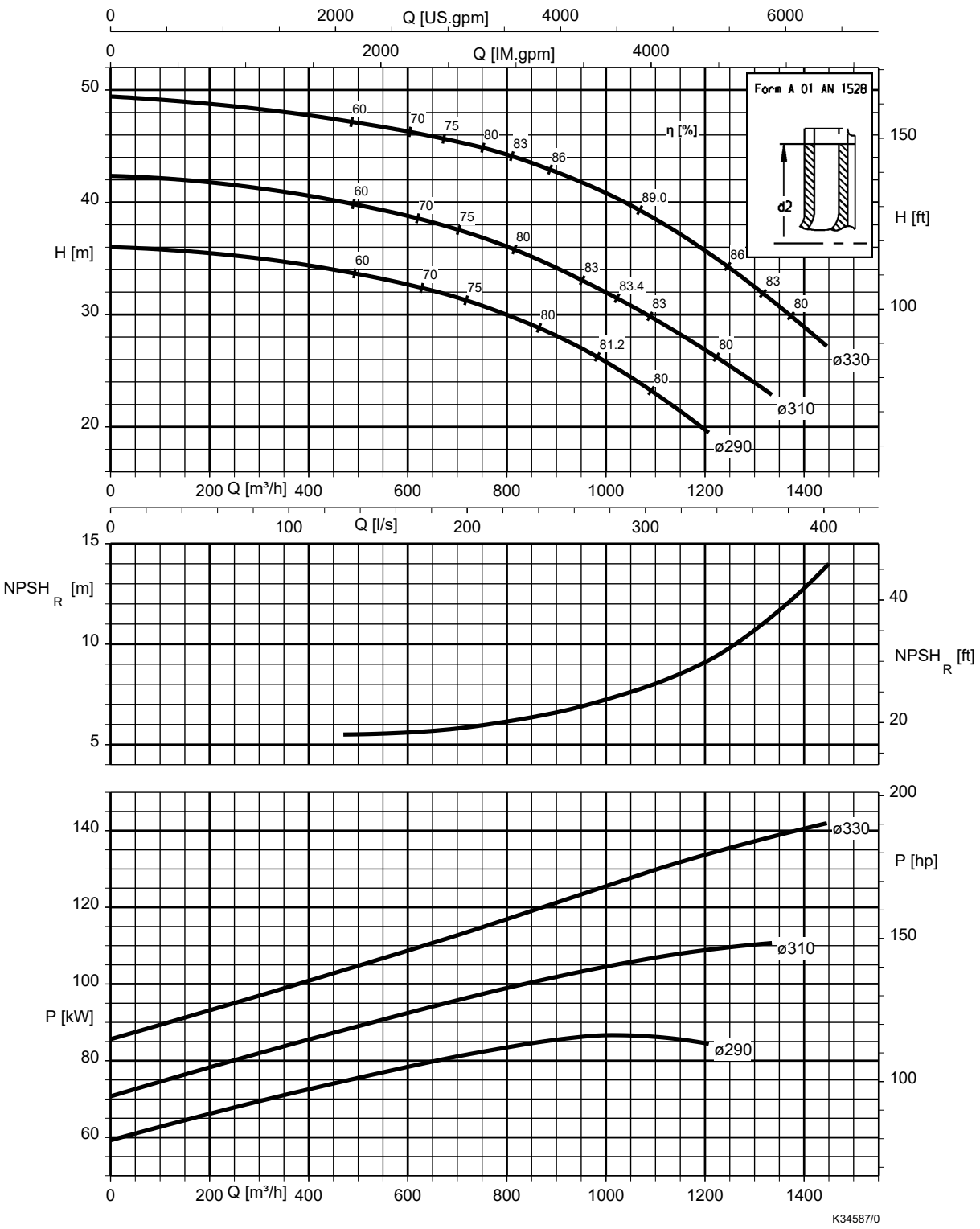


Tableau 8: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	3,8	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	2,0	
1.4408	0,5	

1311.46/11-FR

Etanorm-R 250-400, n = 1750 t/min

Etanorm-RSY

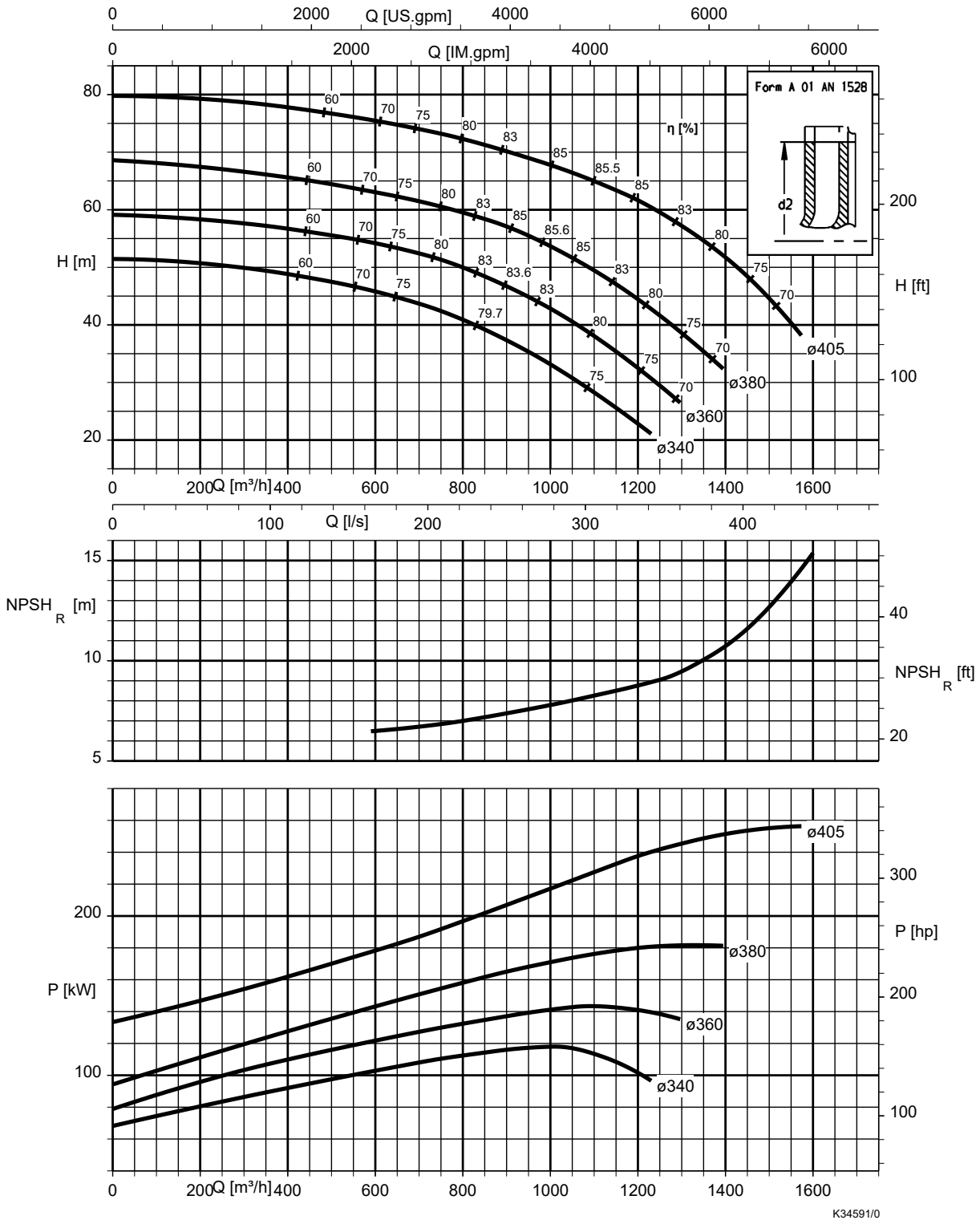


Tableau 9: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	5,5	$NPSH_{installation} \geq NPSH + \text{valeur de correction } S$
CC480K-GS	3,6	
1.4408	0,5	

Etanorm-R 300-340, n = 1750 t/min

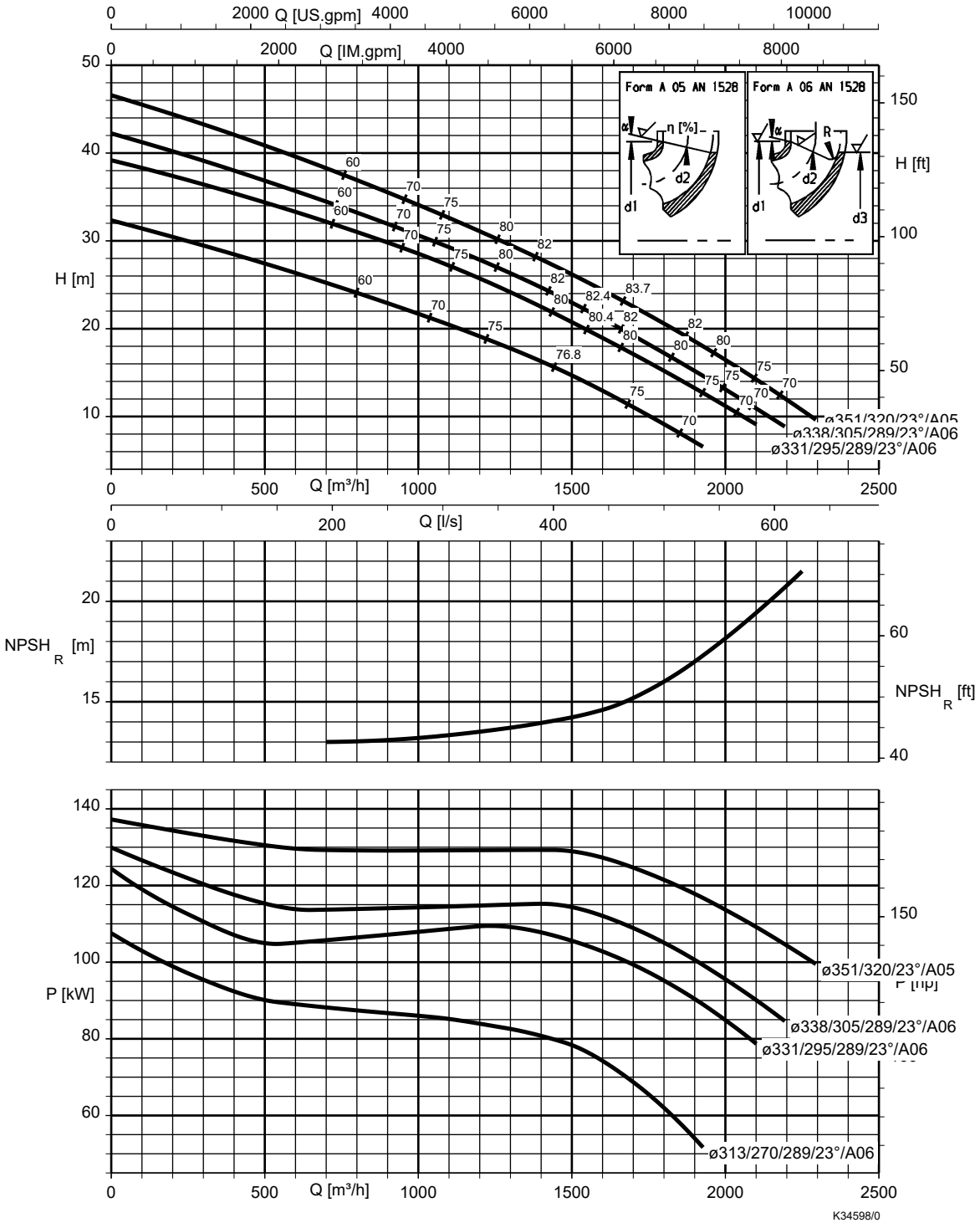


Tableau 10: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	3,8	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	2,1	
1.4408	0,5	

1311.46/11-FR

Etanorm-R 300-360, n = 1750 t/min

Etanorm-RSY

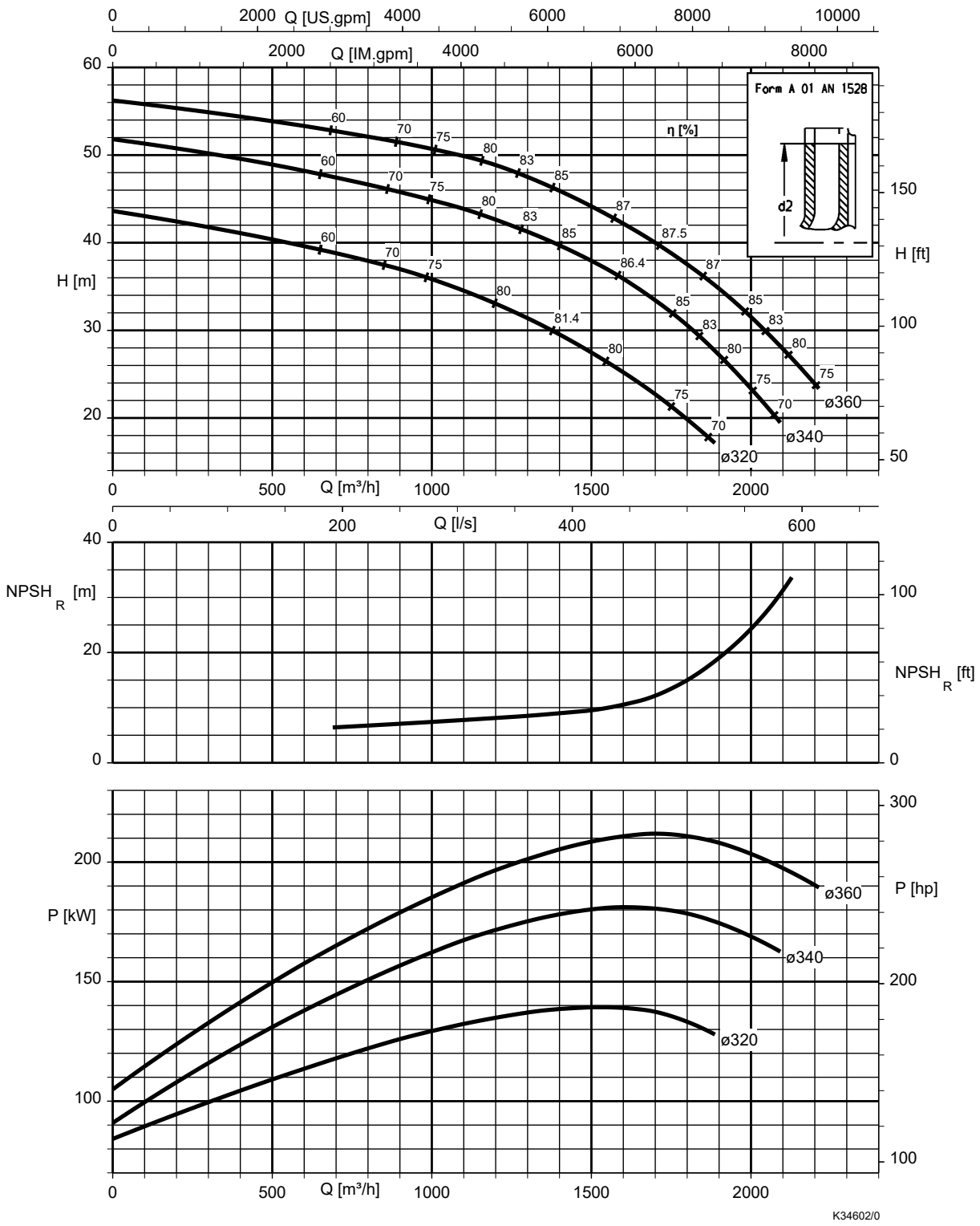


Tableau 11: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	2,5	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	1,3	
1.4408	0,5	

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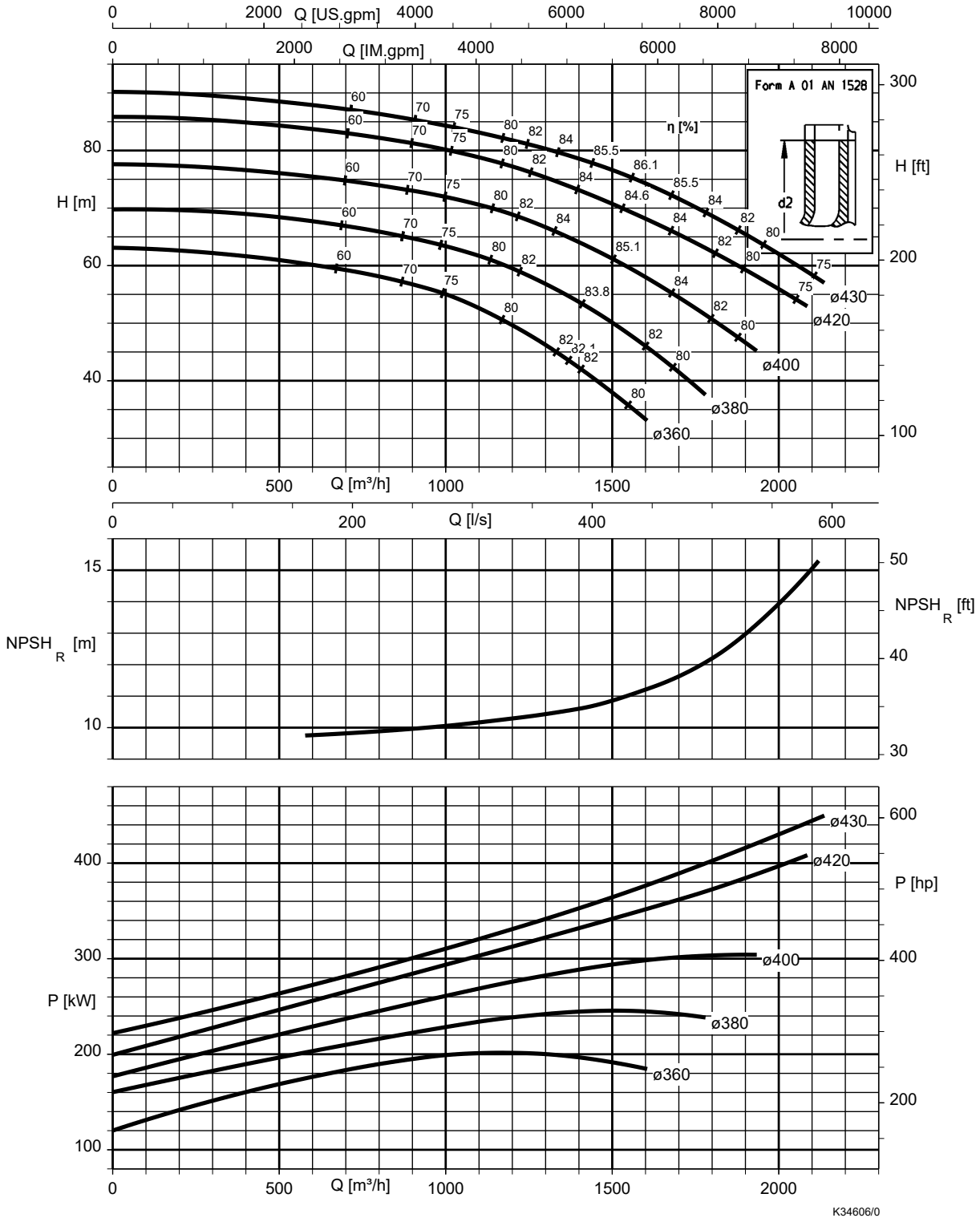
Etanorm-R 300-400, n = 1750 t/min

Etanorm-RSY



1311.46/11-FR

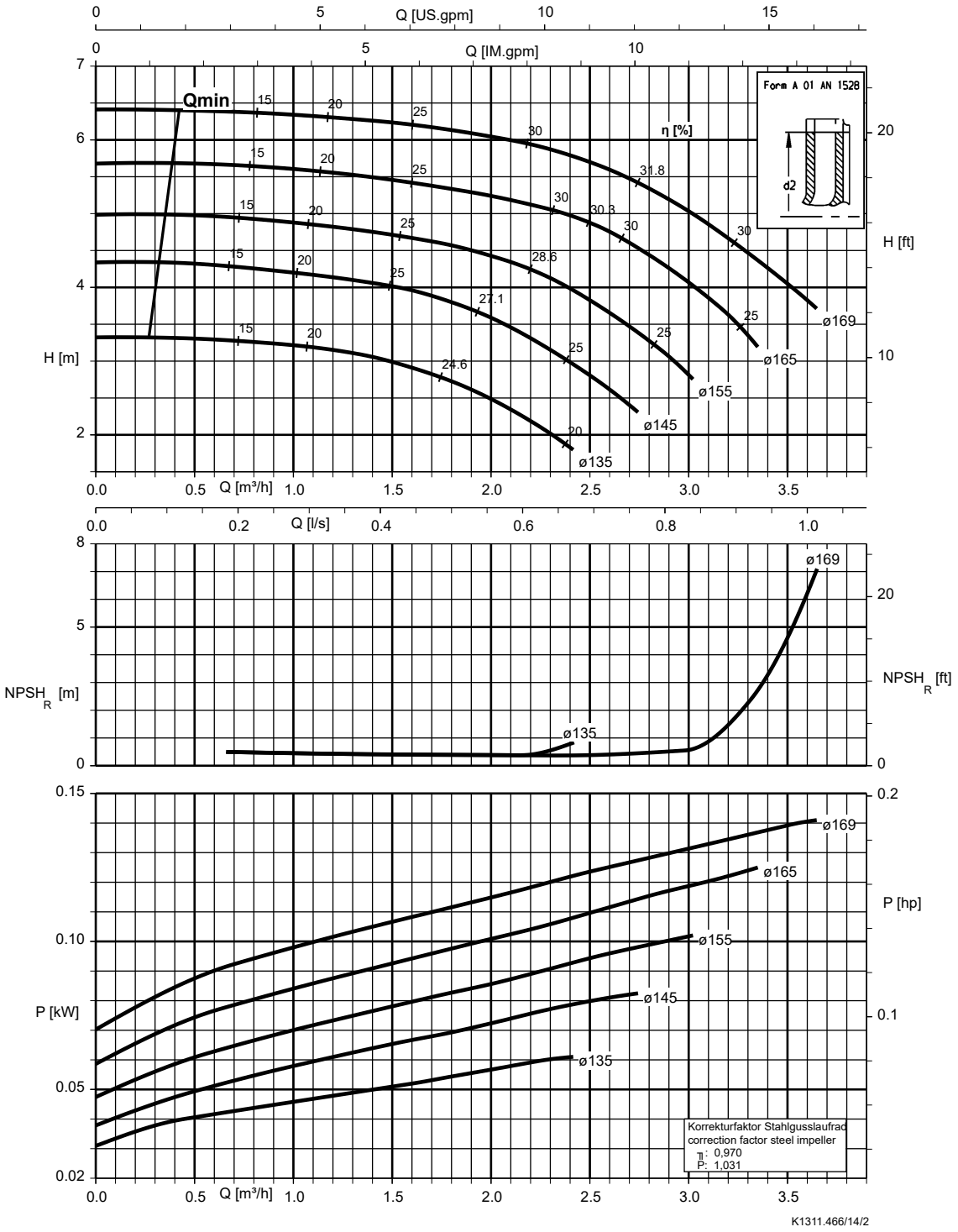
Tableau 12: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	4,7	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	2,8	
1.4408	0,5	

n = 1160 t/min

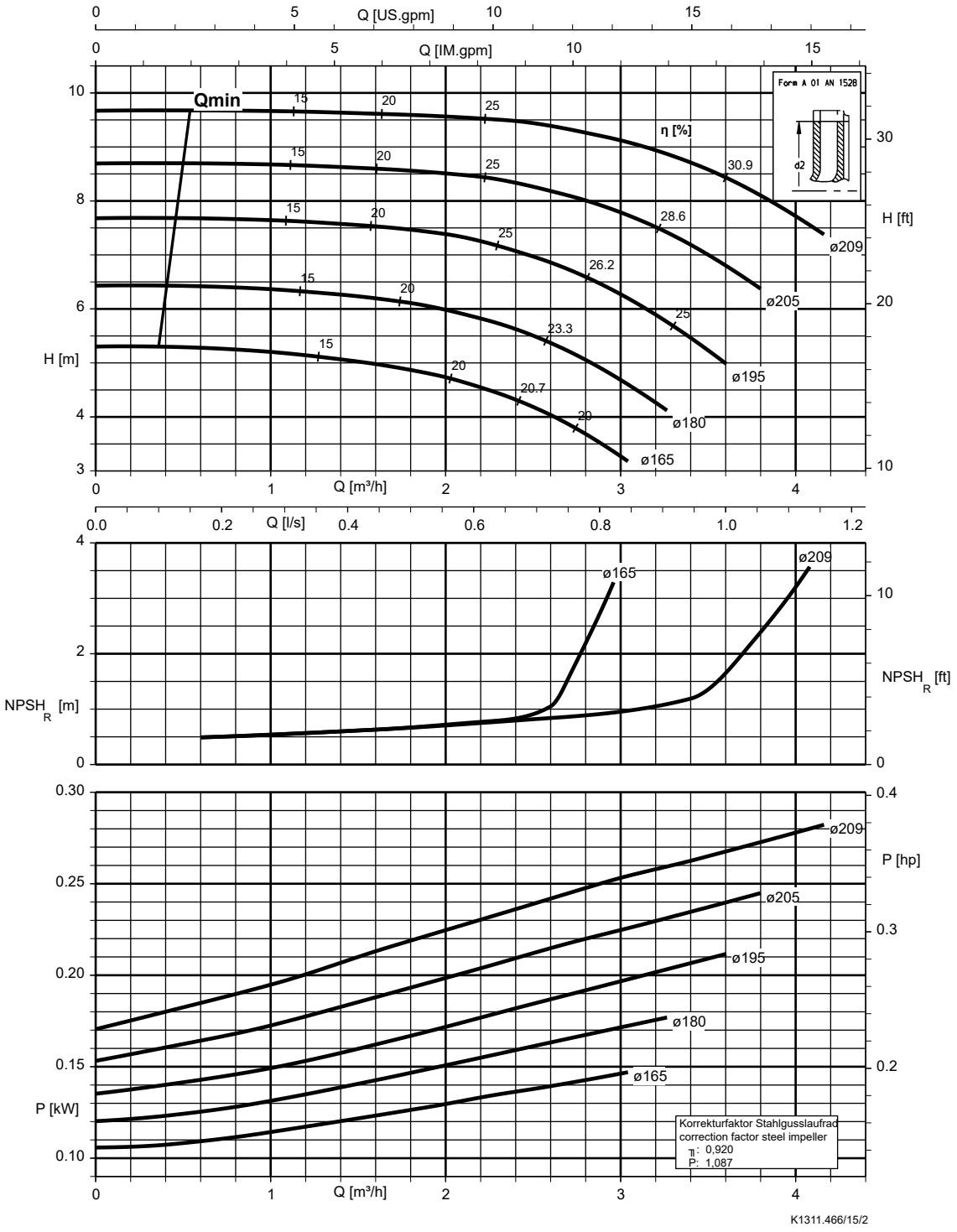
Etanorm 040-025-160, n = 1160 t/min

Etanorm SYT, Etabloc



Etanorm 040-025-200, n = 1160 t/min

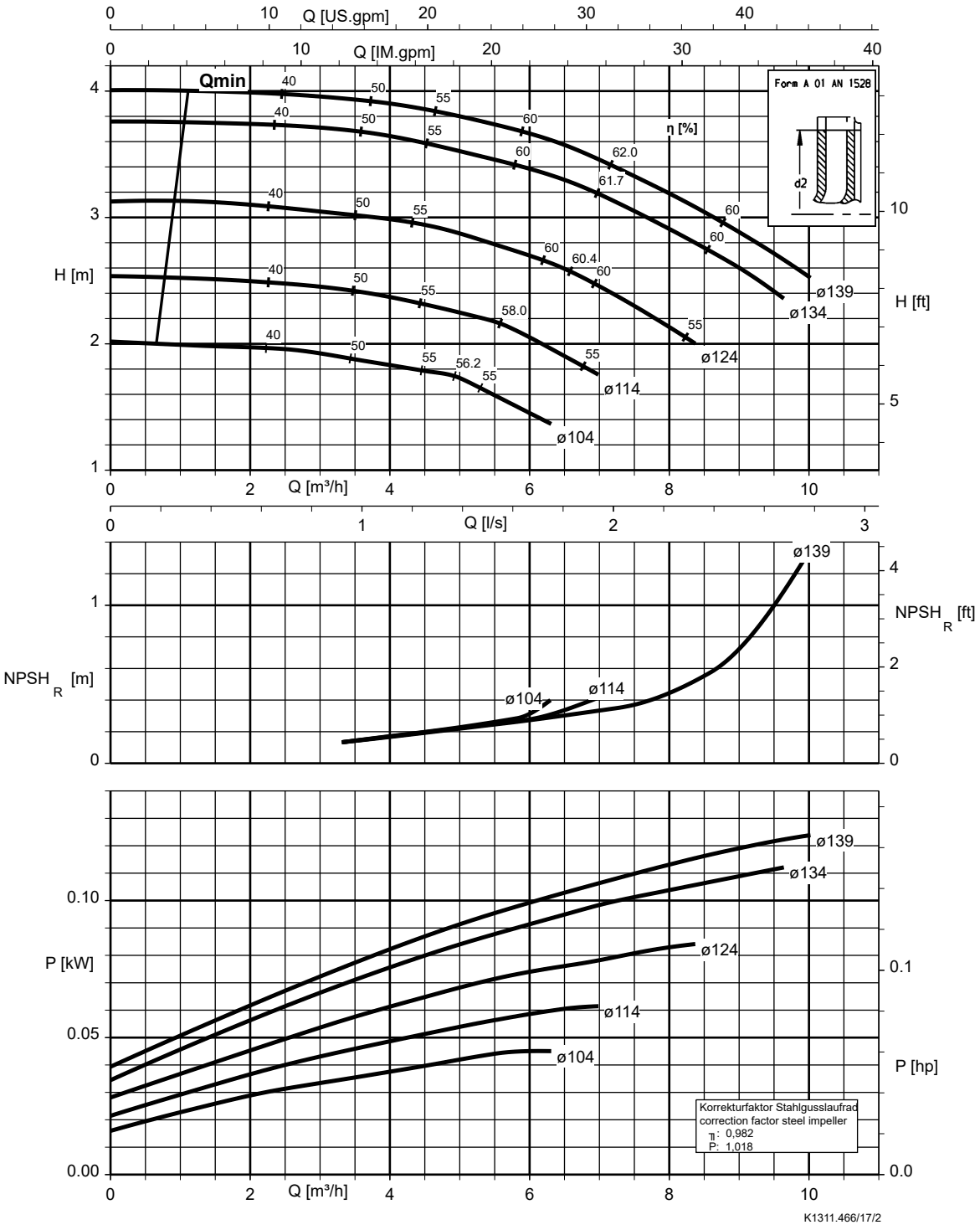
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 050-032-125.1, n = 1160 t/min

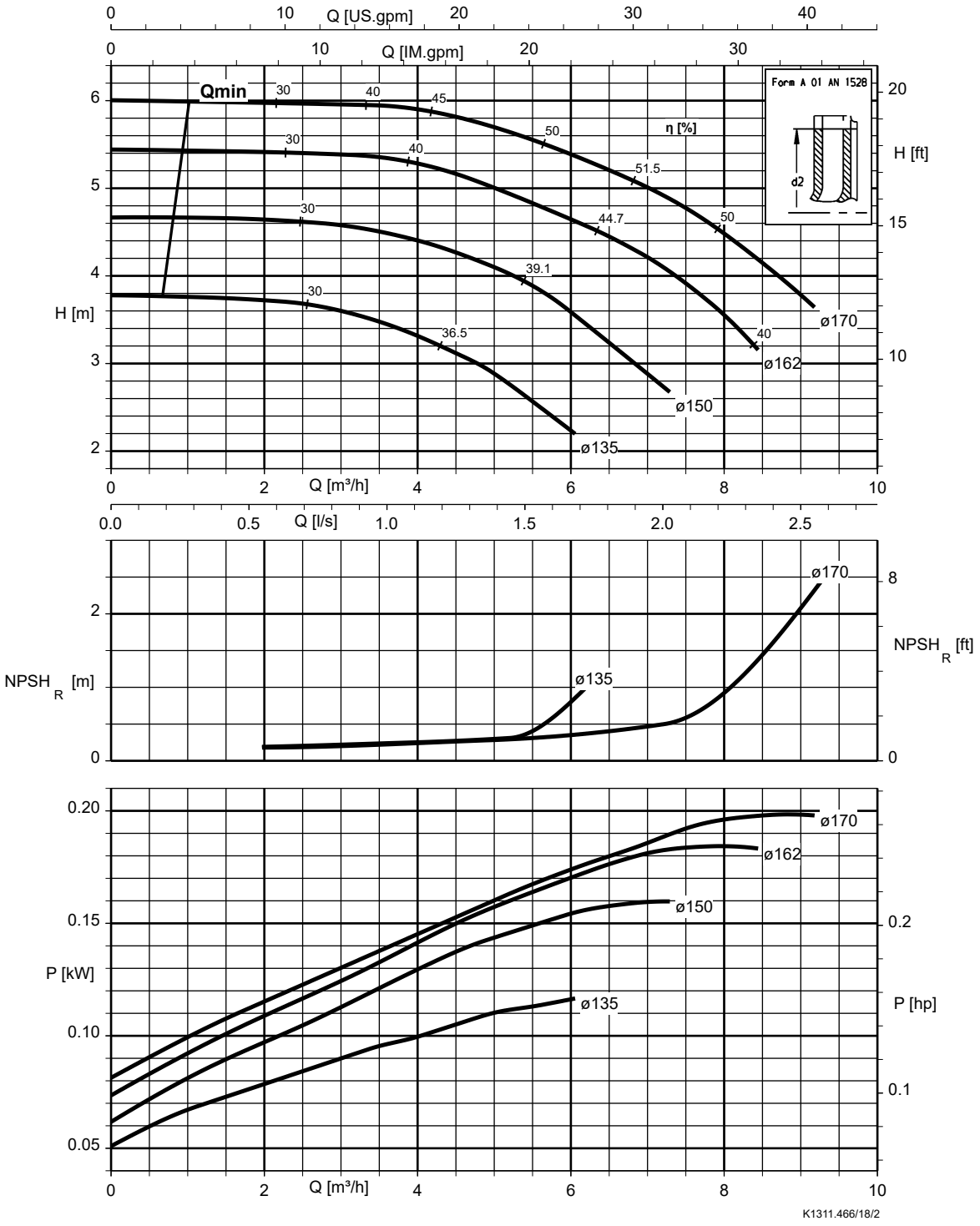
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 050-032-160.1, n = 1160 t/min

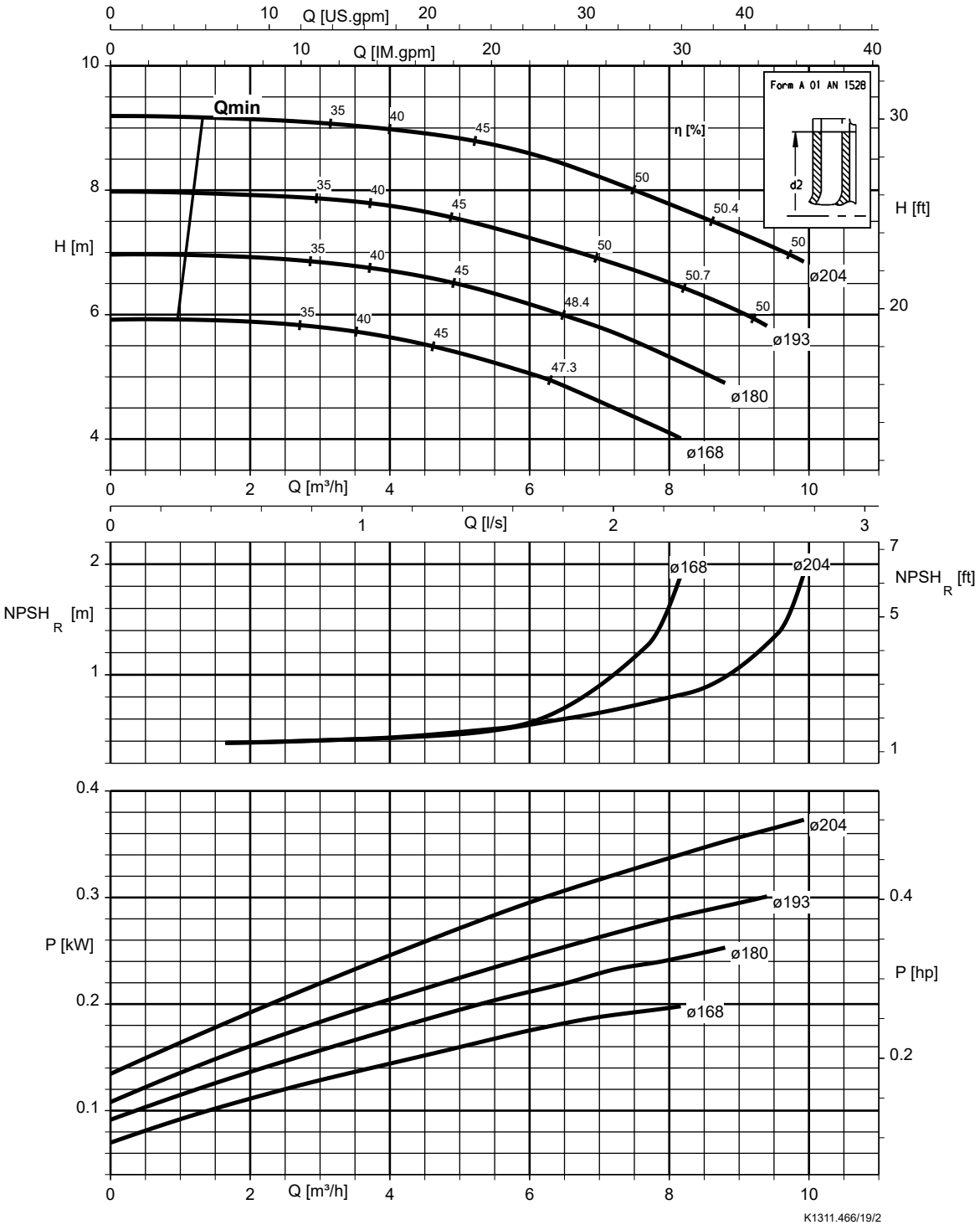
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 050-032-200.1, n = 1160 t/min

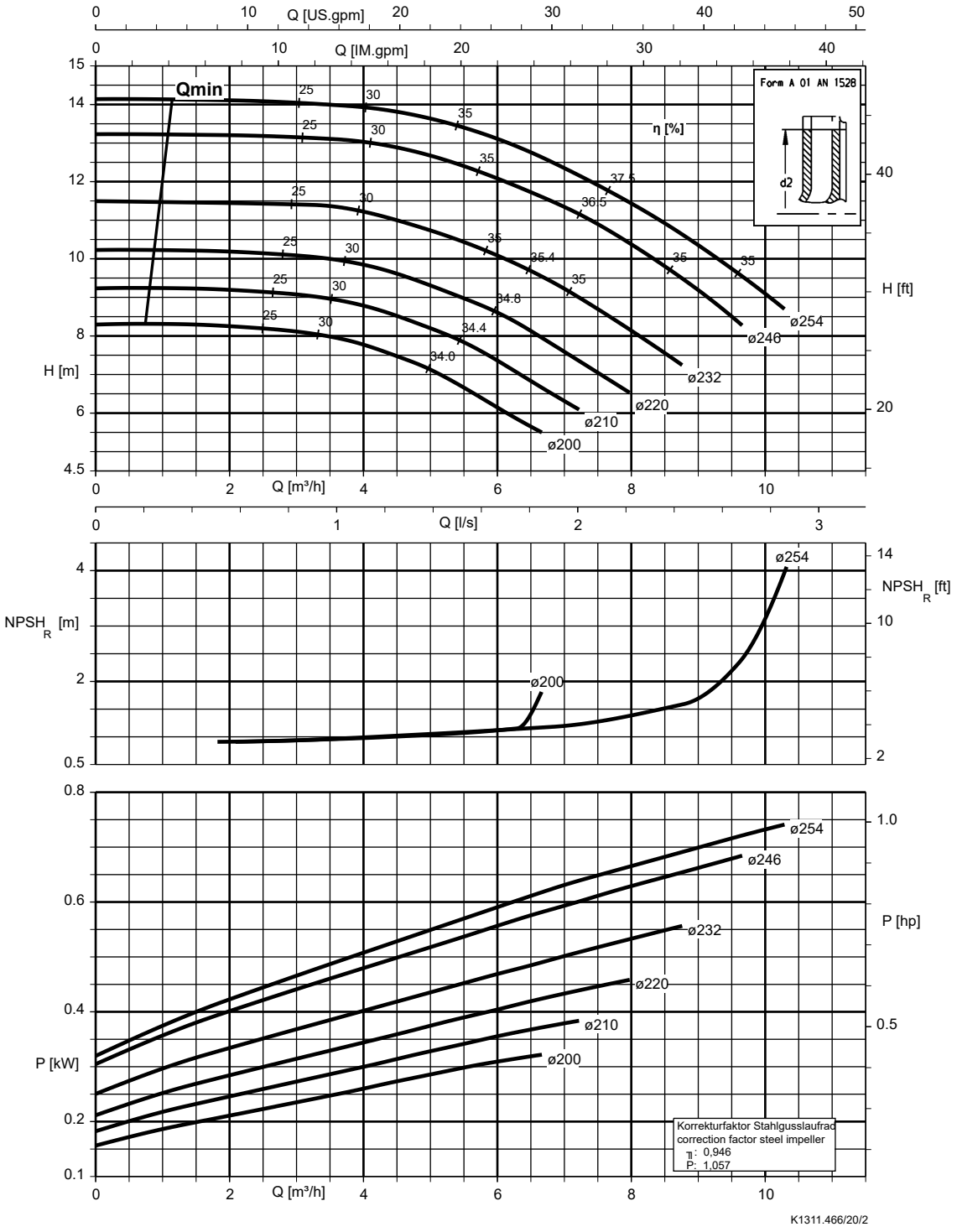
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 050-032-250.1, n = 1160 t/min

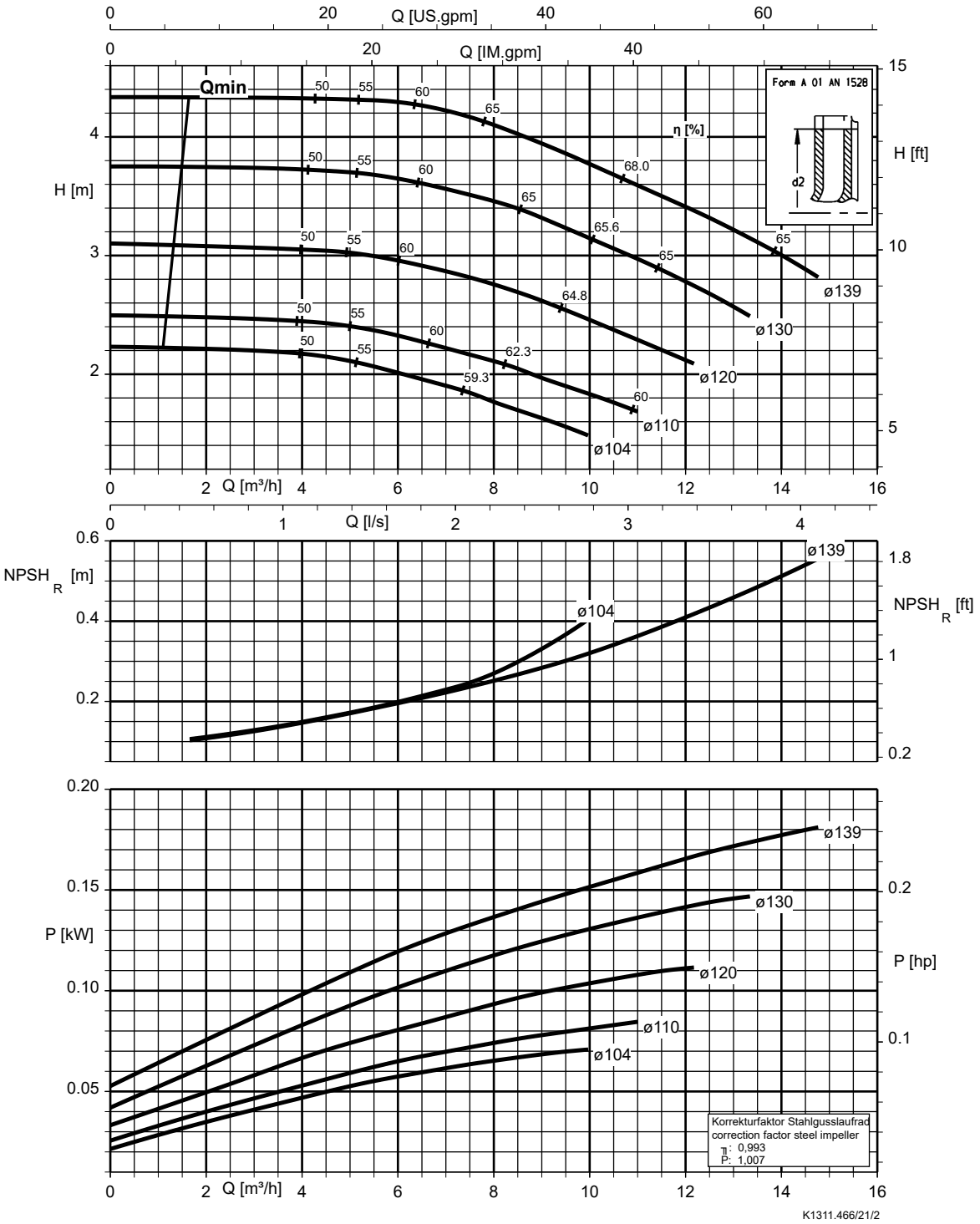
Etabloc



1311.46/11-FR

Etanorm 050-032-125, n = 1160 t/min

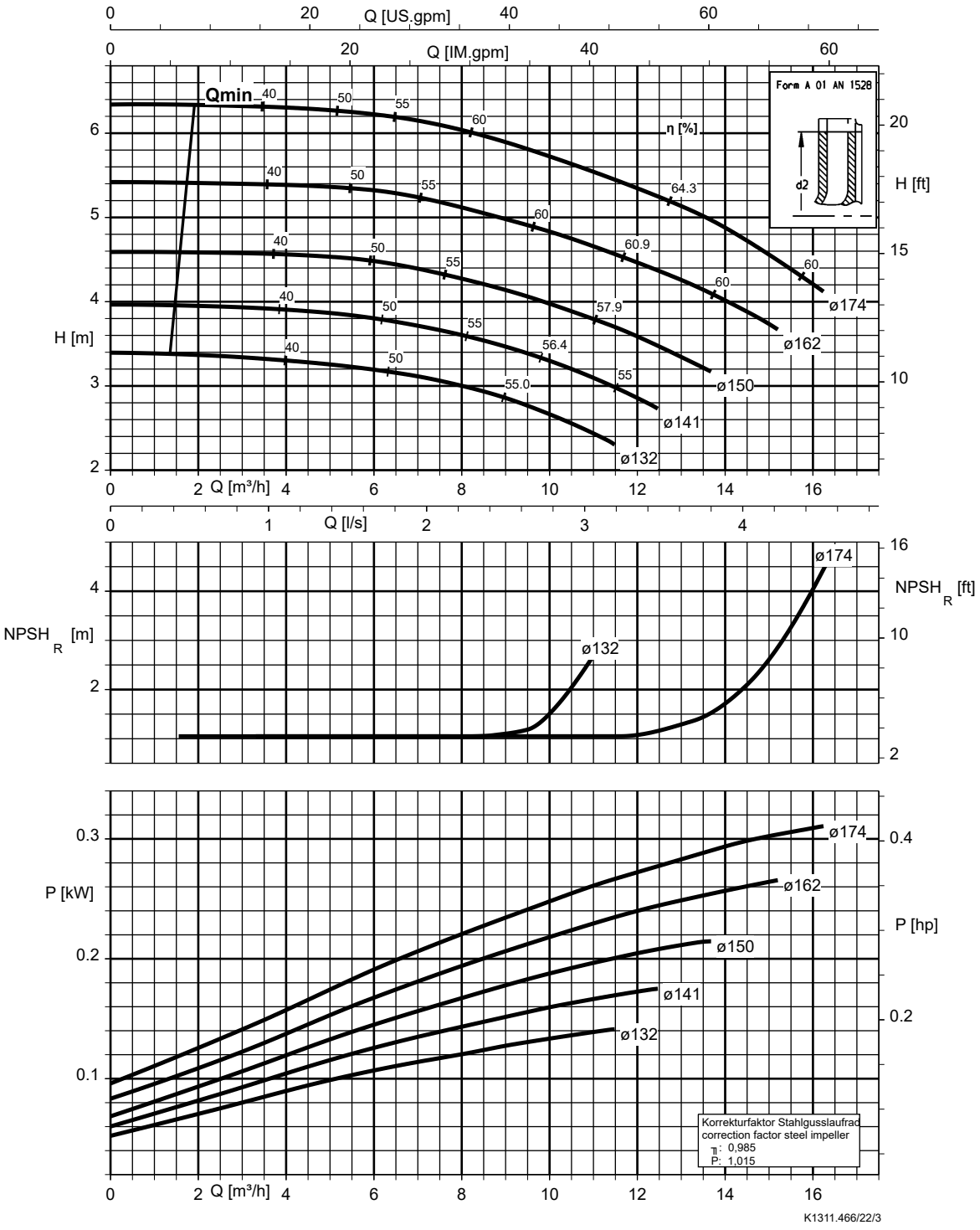
Etabloc



1311.46/11-FR

Etanorm 050-032-160, n = 1160 t/min

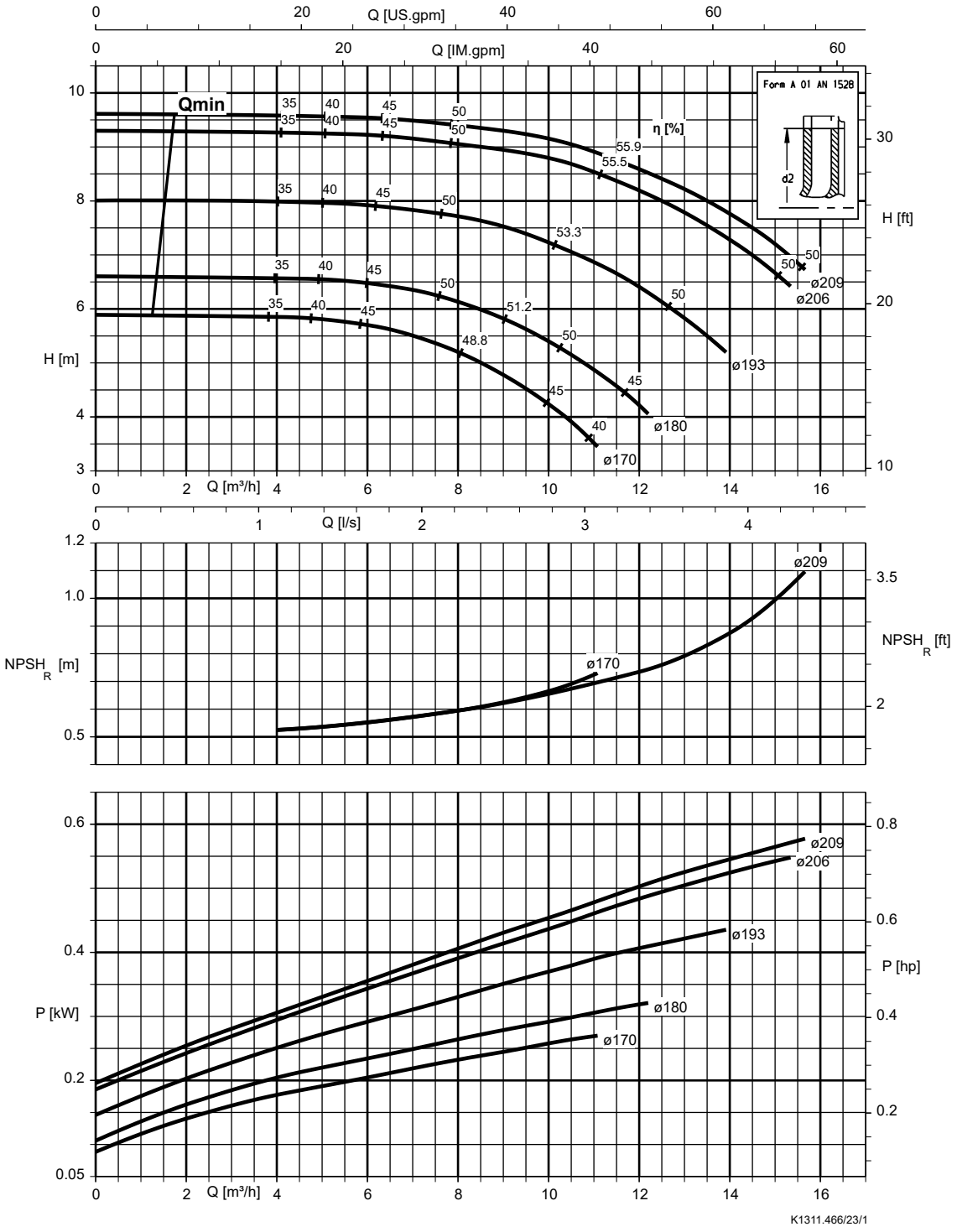
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 050-032-200, n = 1160 t/min

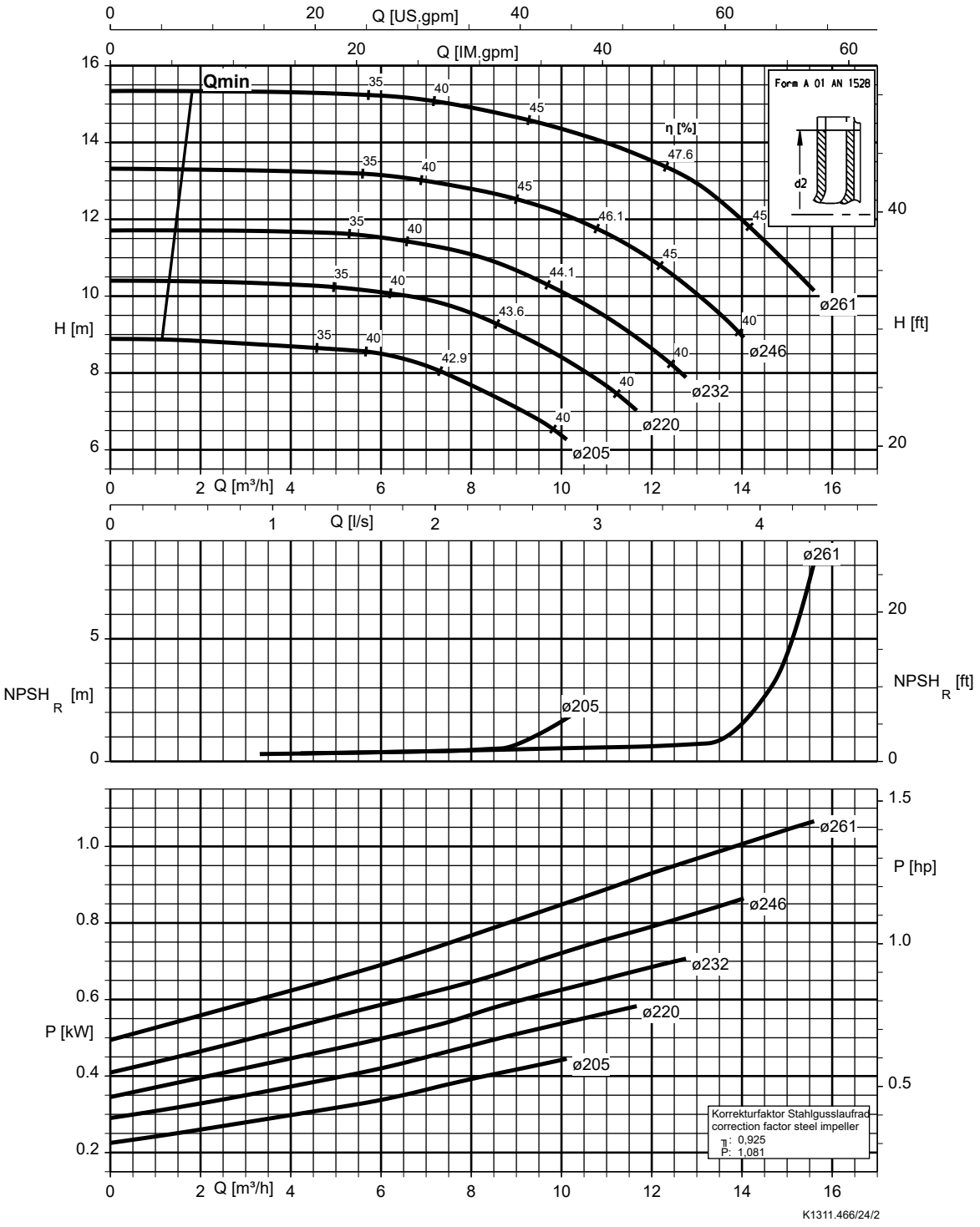
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 050-032-250, n = 1160 t/min

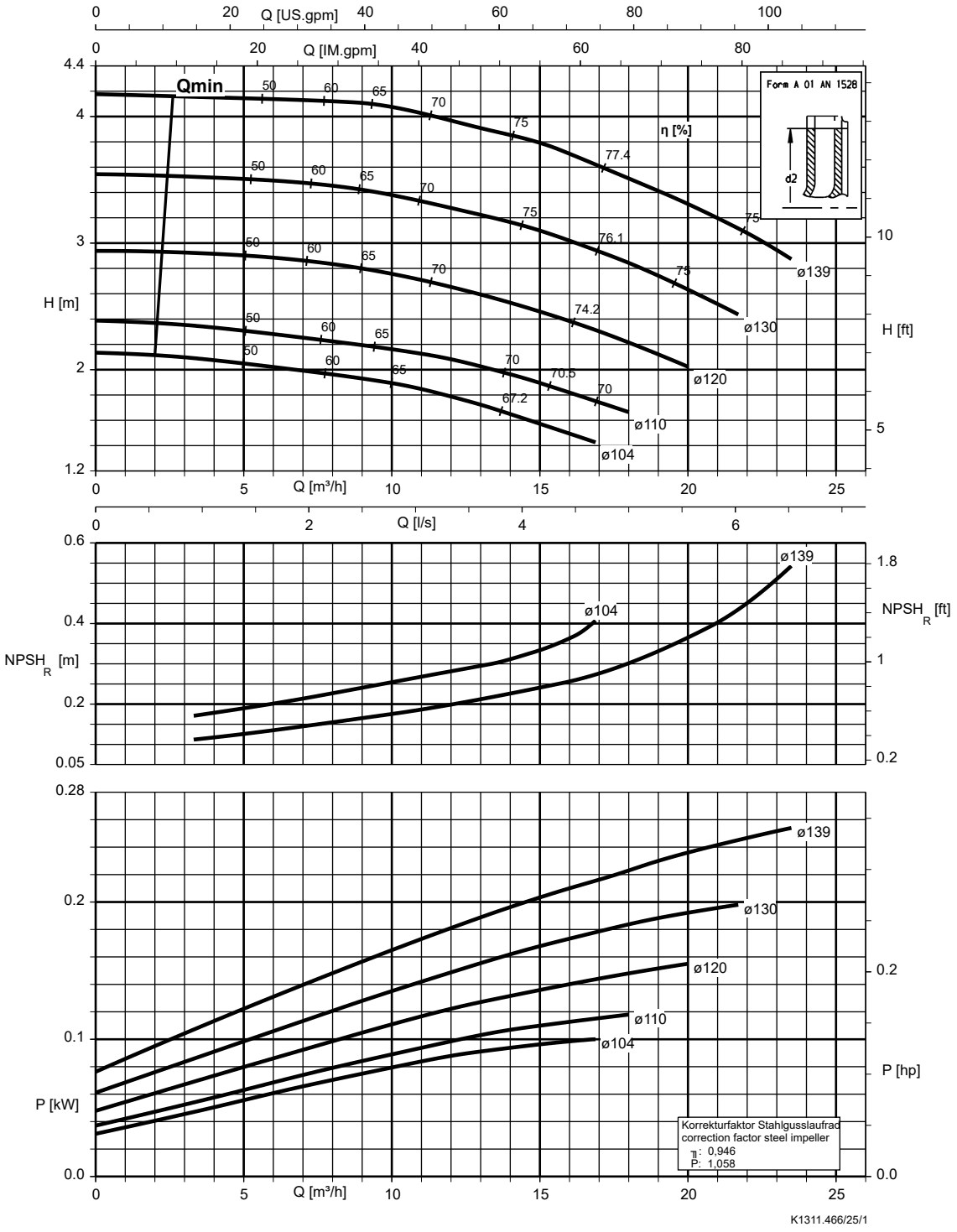
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 065-040-125, n = 1160 t/min

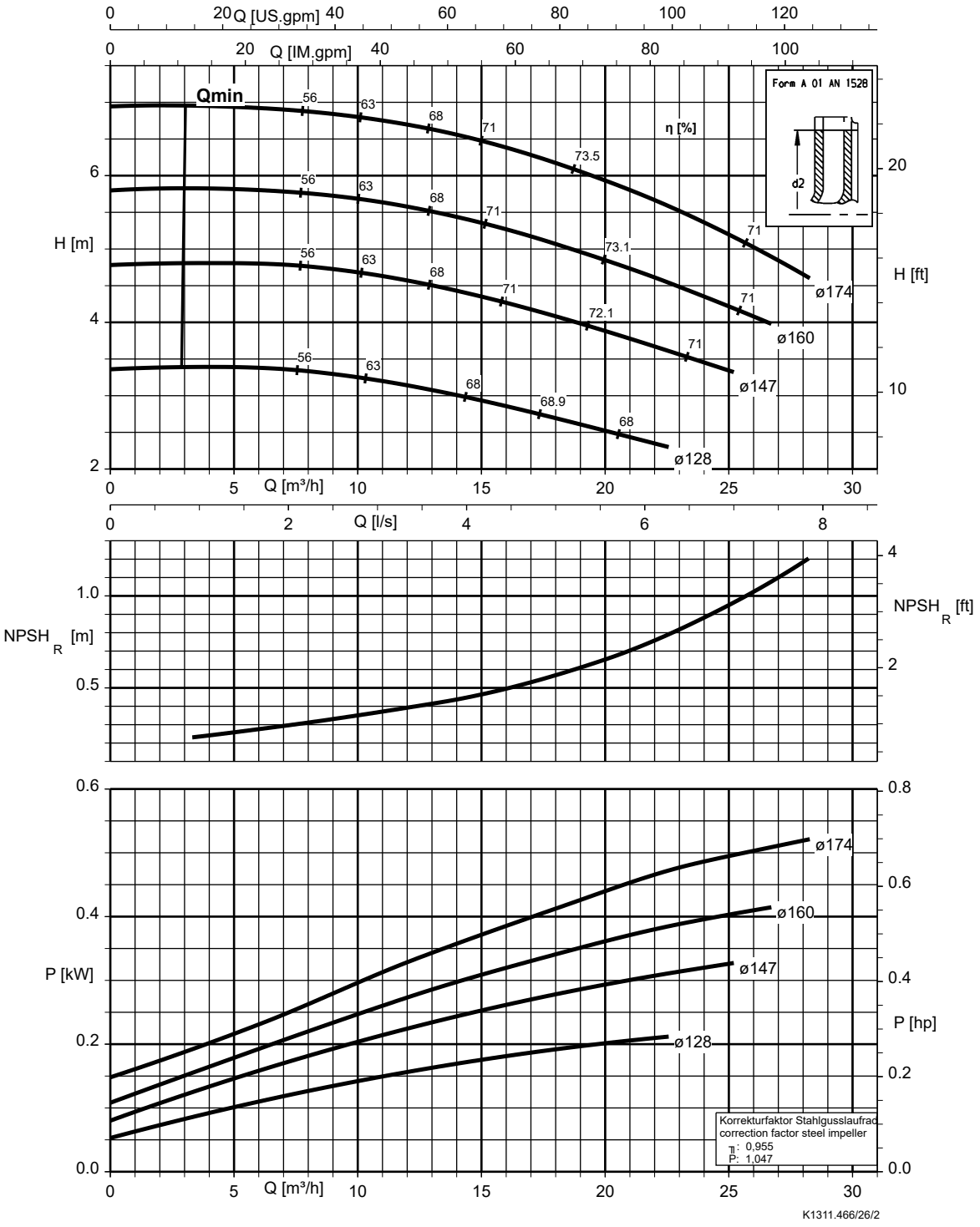
Etabloc



1311.46/11-FR

Etanorm 065-040-160, n = 1160 t/min

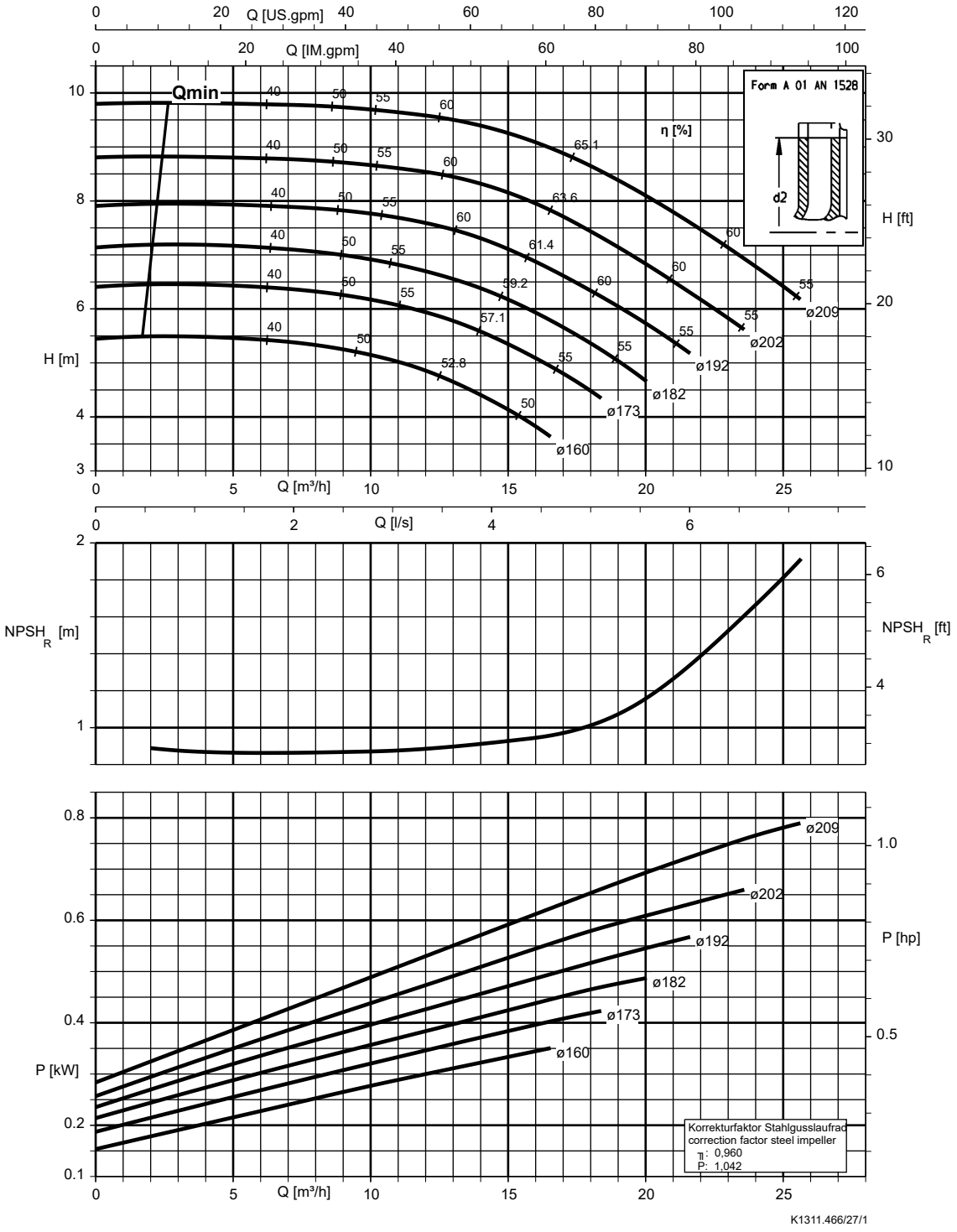
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 065-040-200, n = 1160 t/min

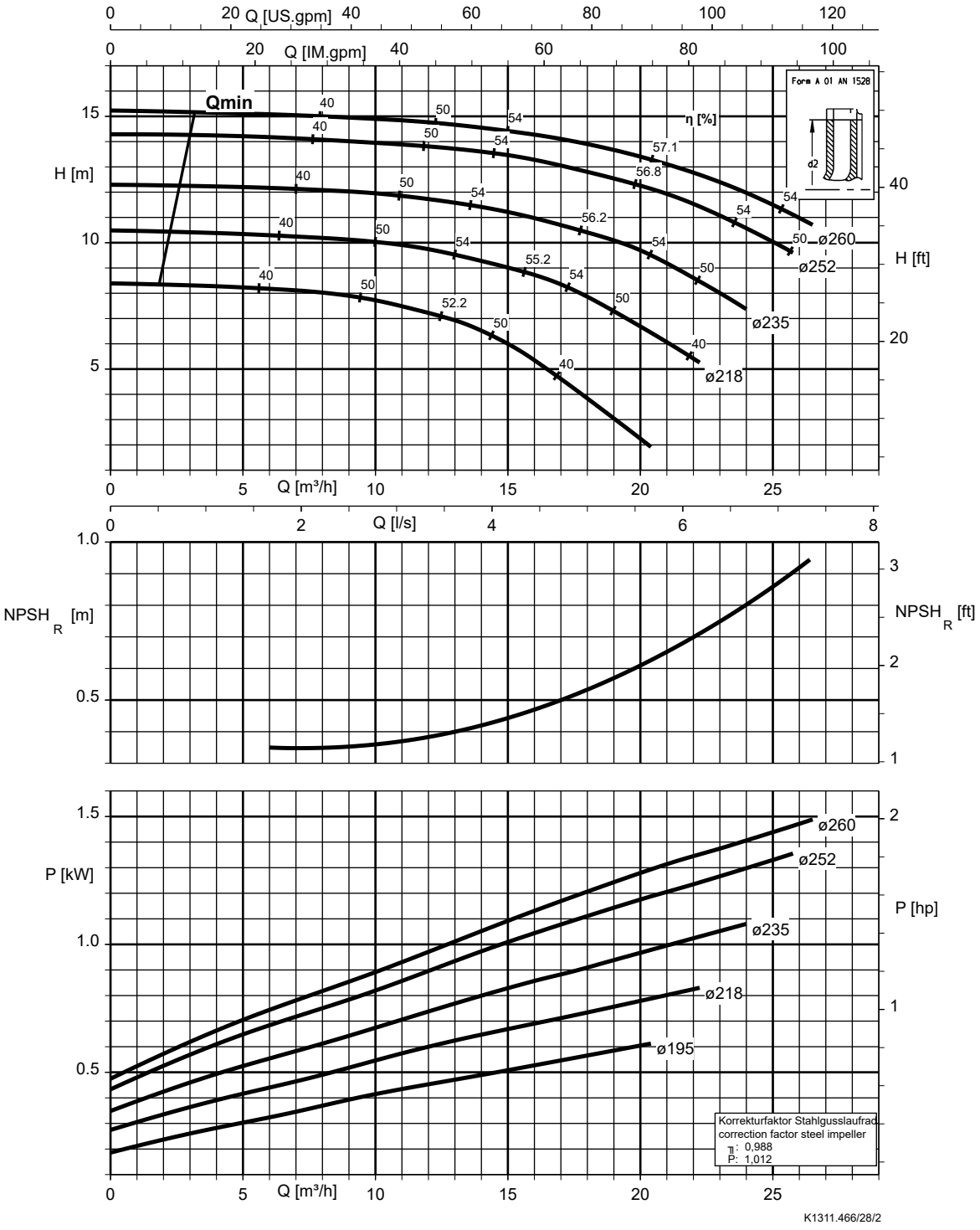
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 065-040-250, n = 1160 t/min

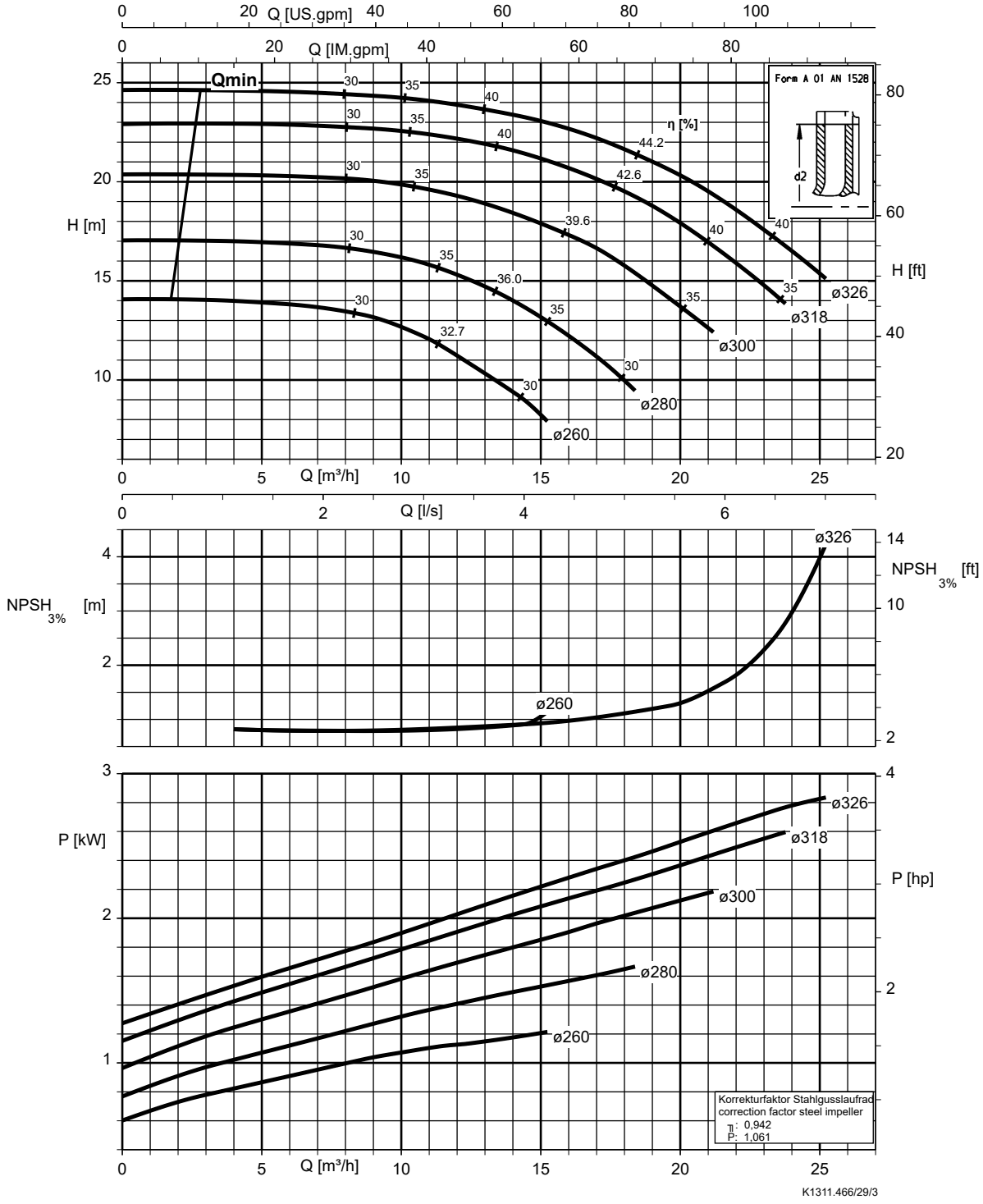
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 065-040-315, n = 1160 t/min

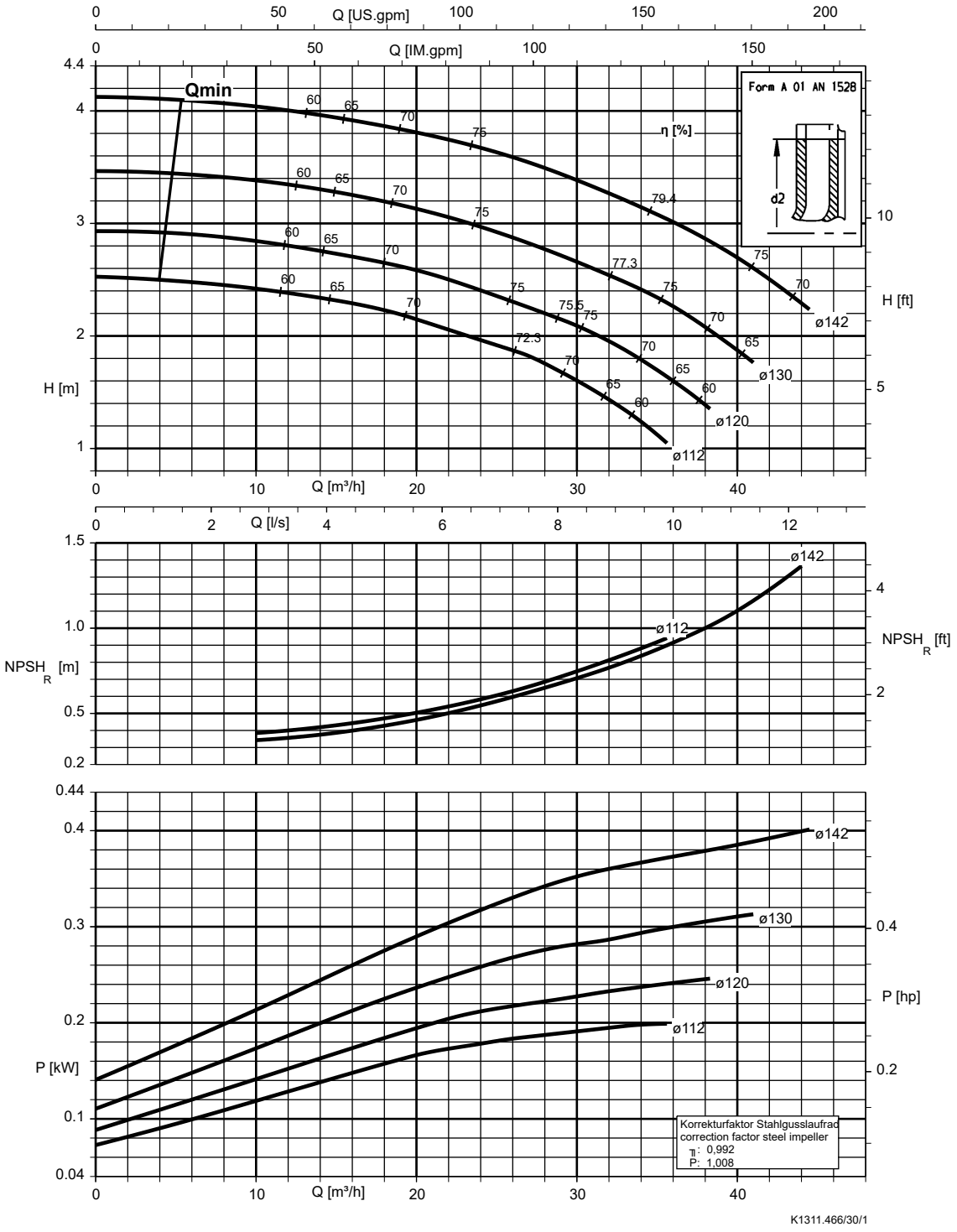
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 065-050-125, n = 1160 t/min

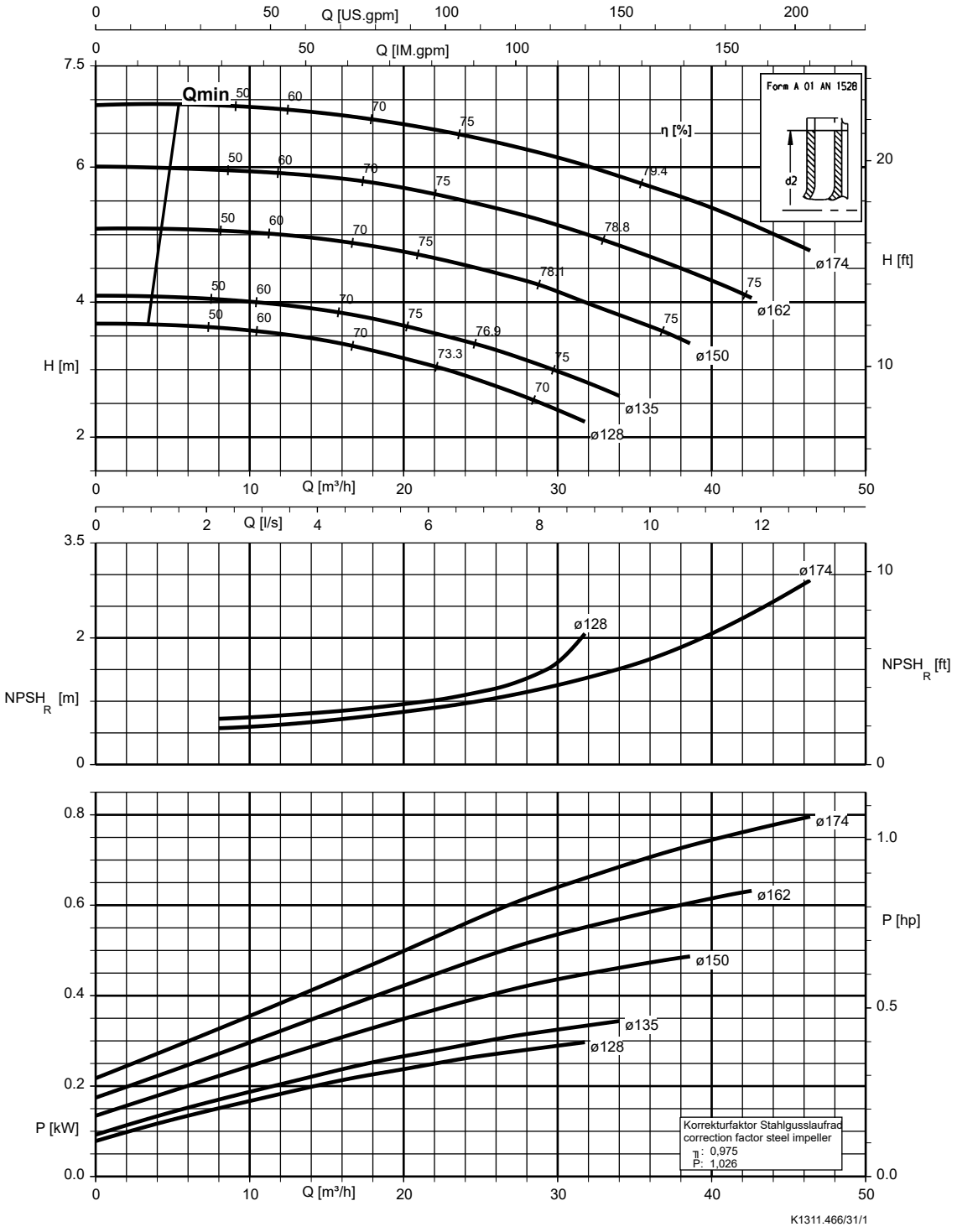
Etabloc



1311.46/11-FR

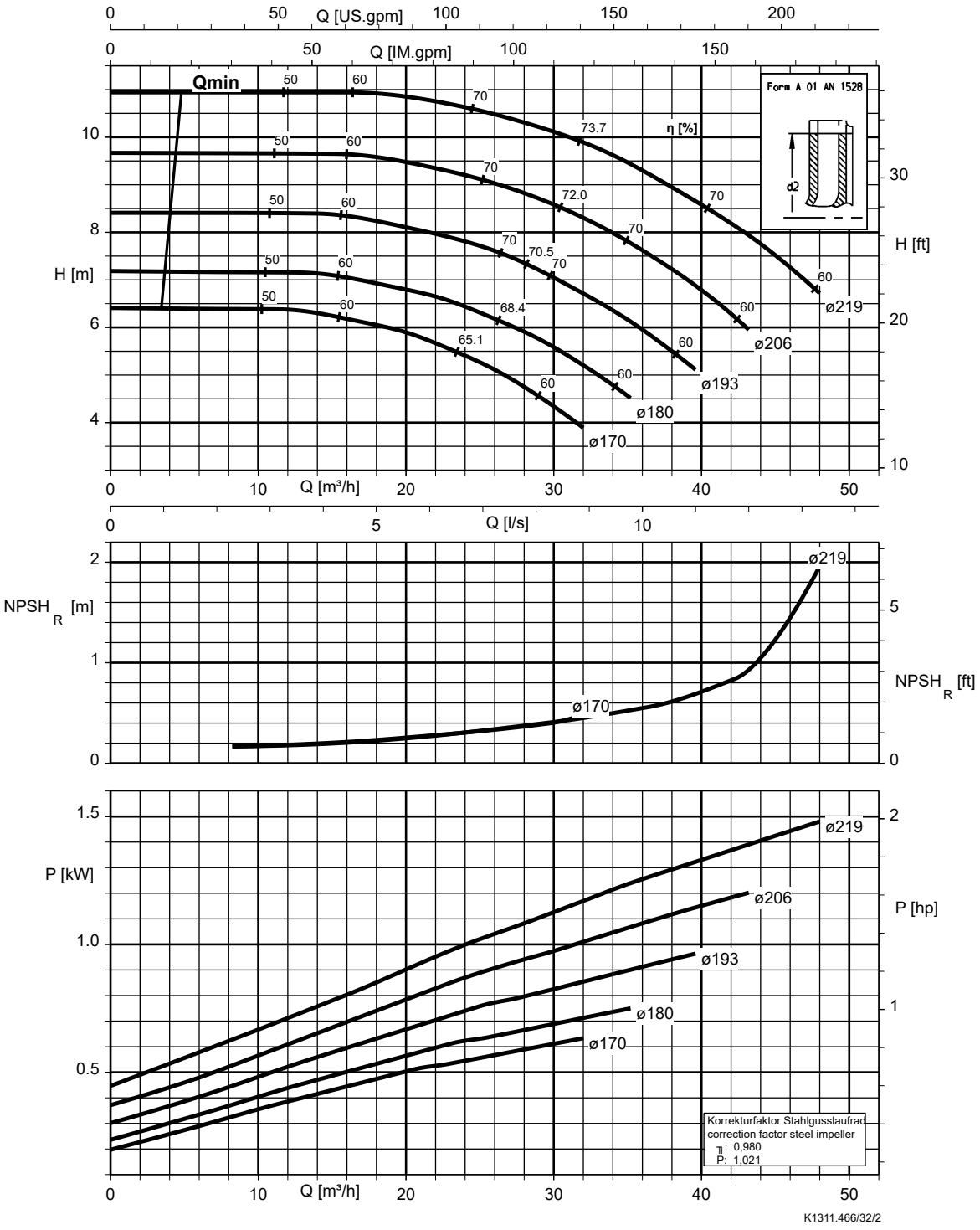
Etanorm 065-050-160, n = 1160 t/min

Etanorm SYT, Etabloc



Etanorm 065-050-200, n = 1160 t/min

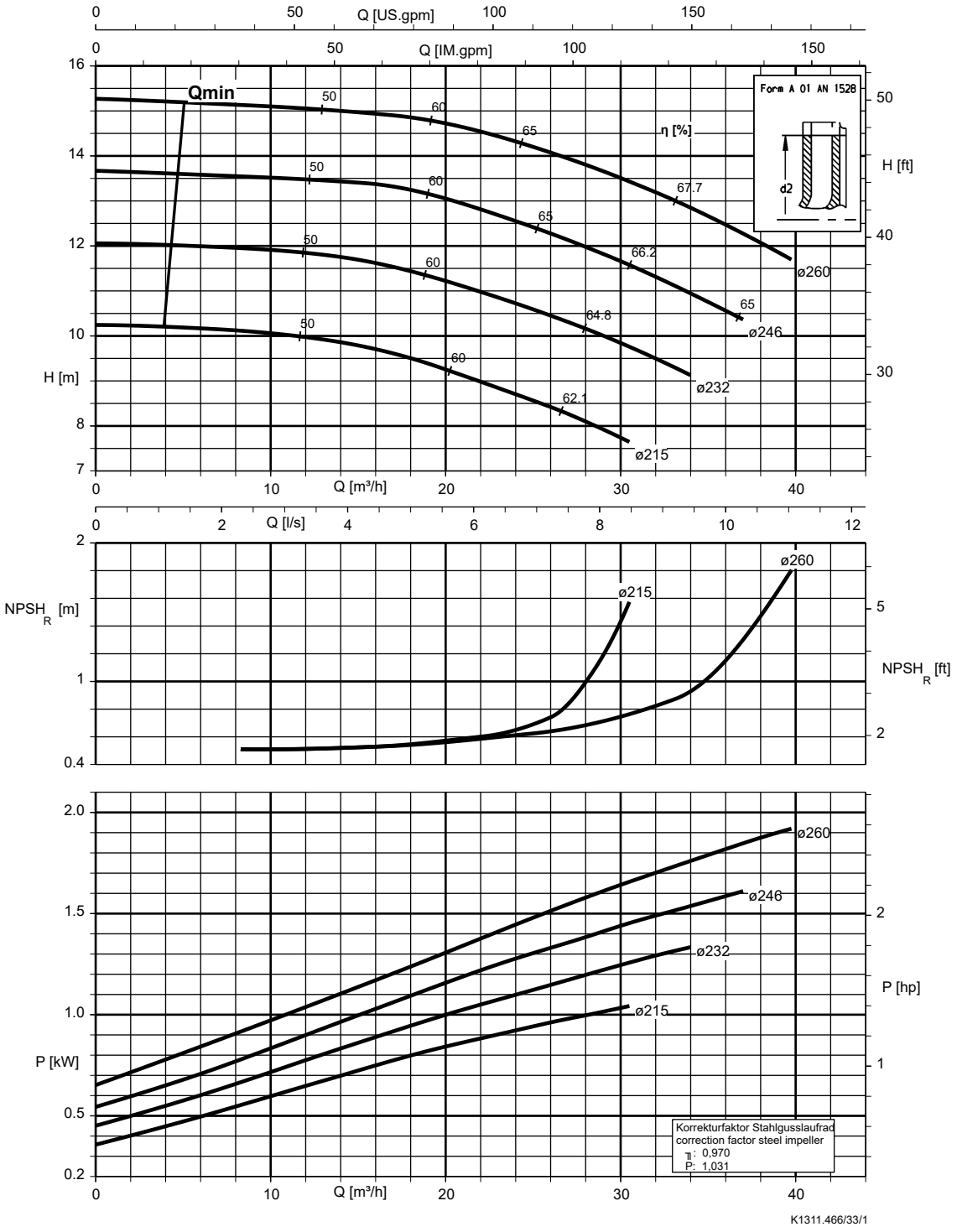
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 065-050-250, n = 1160 t/min

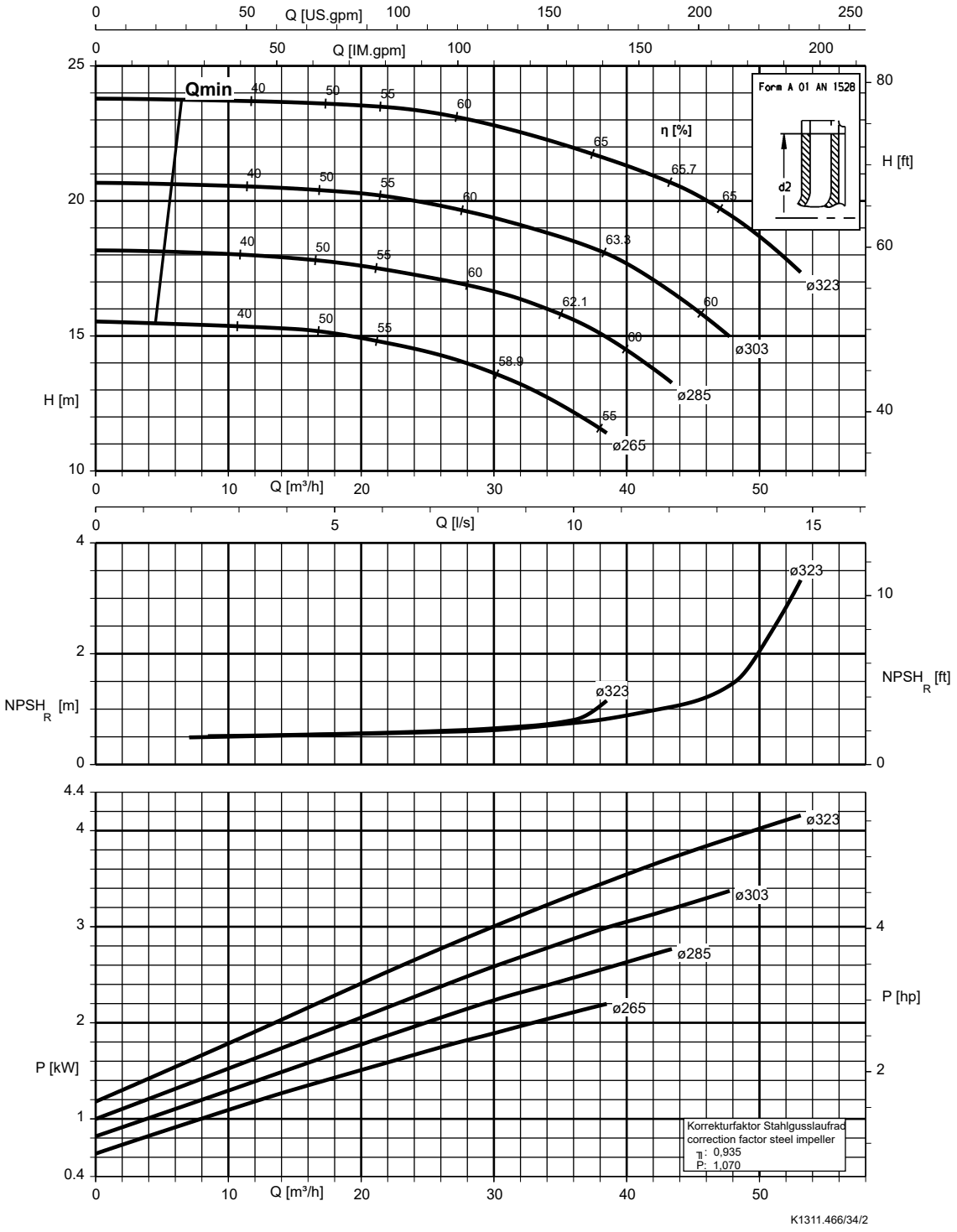
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 065-050-315, n = 1160 t/min

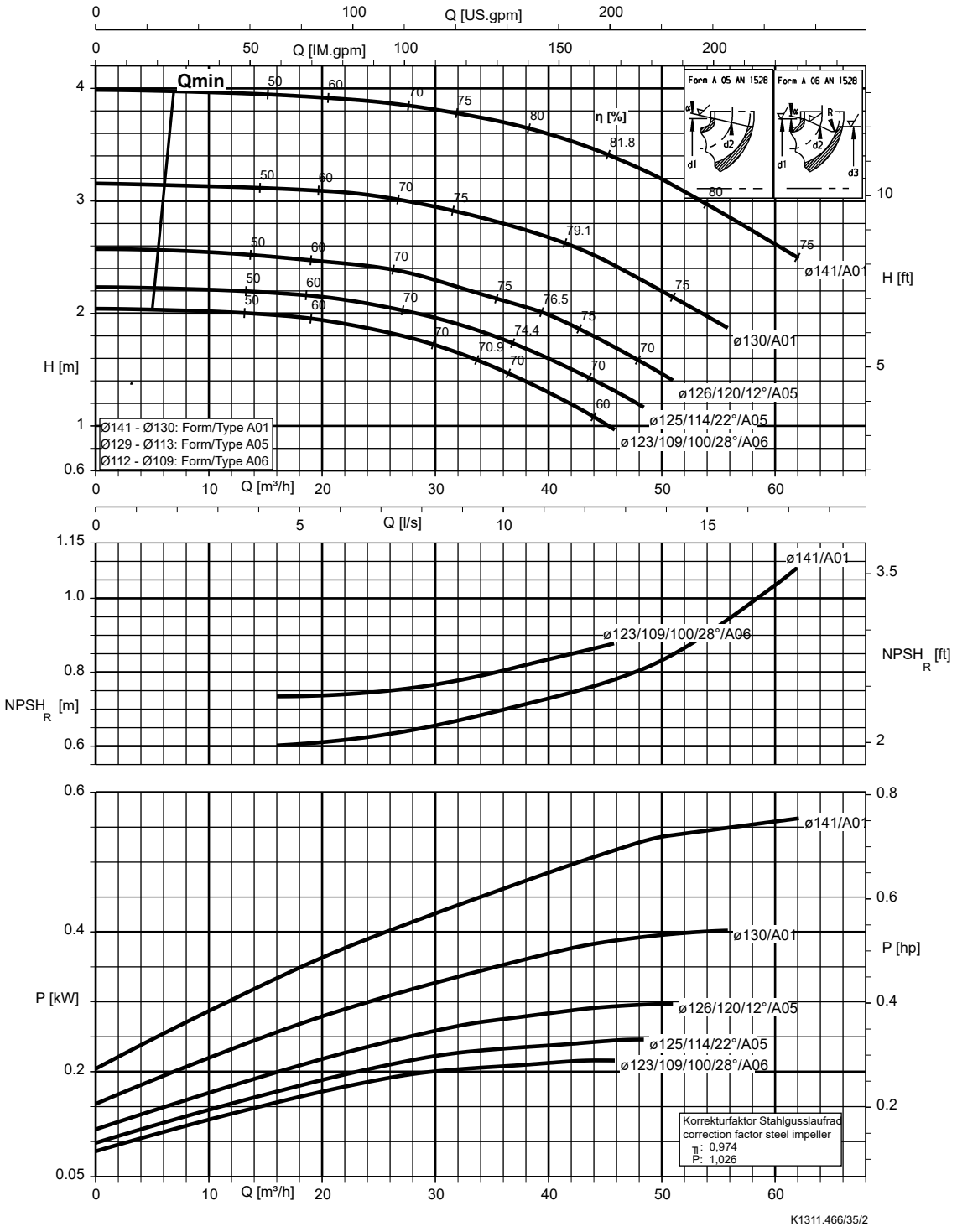
Etanorm SYT, Etabloc



1311.46/11-FR

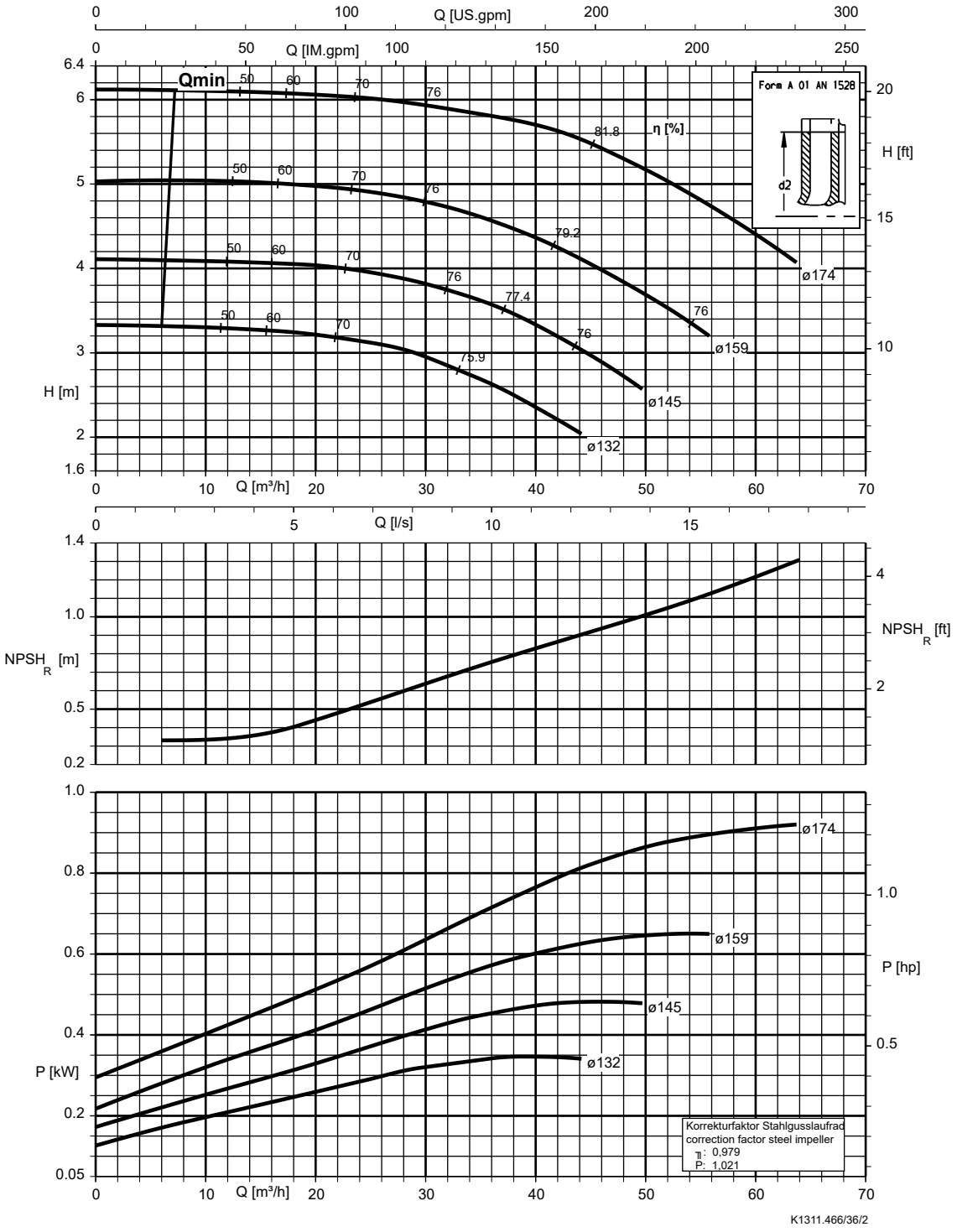
Etanorm 080-065-125, n = 1160 t/min

Etabloc



Etanorm 080-065-160, n = 1160 t/min

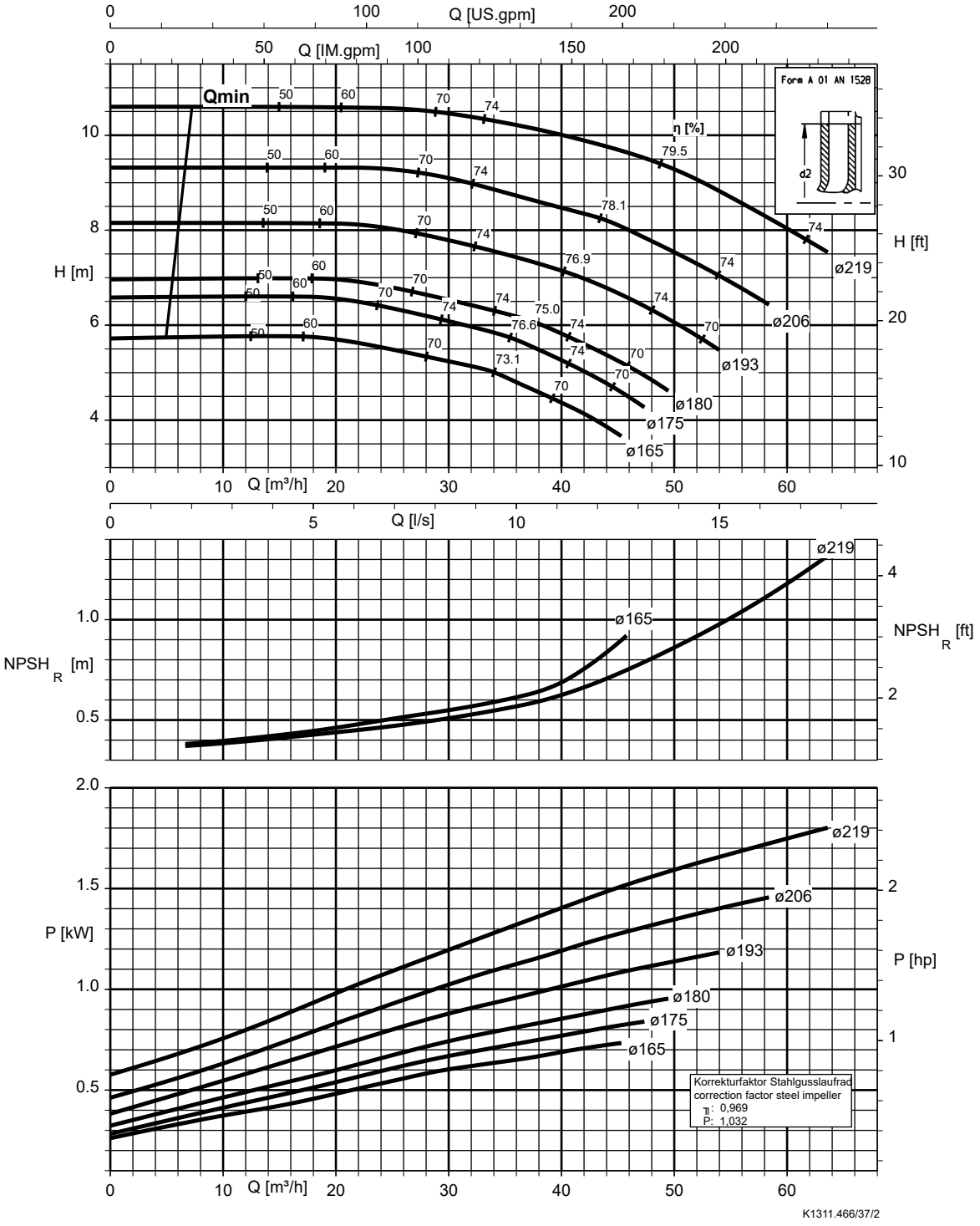
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 080-065-200, n = 1160 t/min

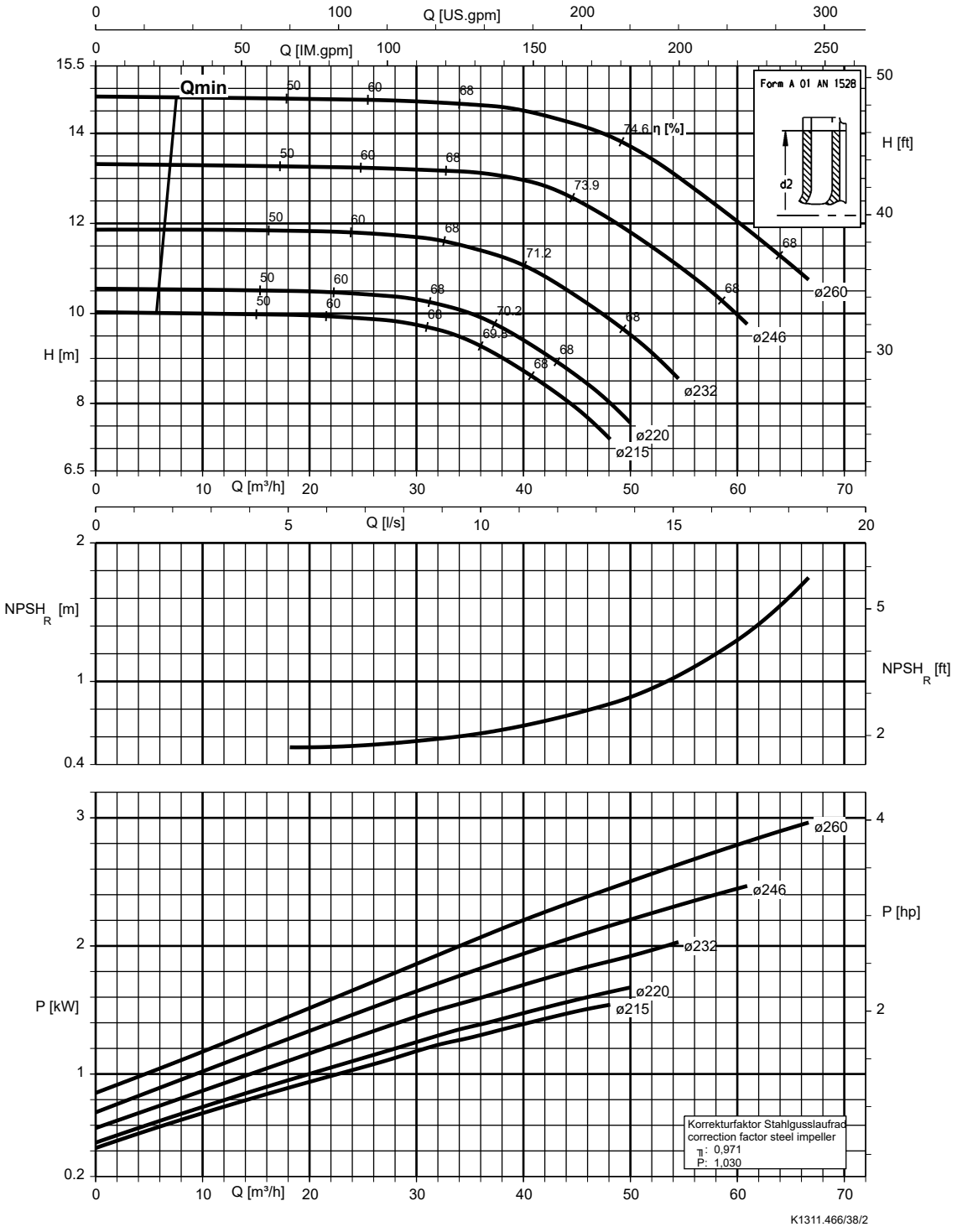
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 080-065-250, n = 1160 t/min

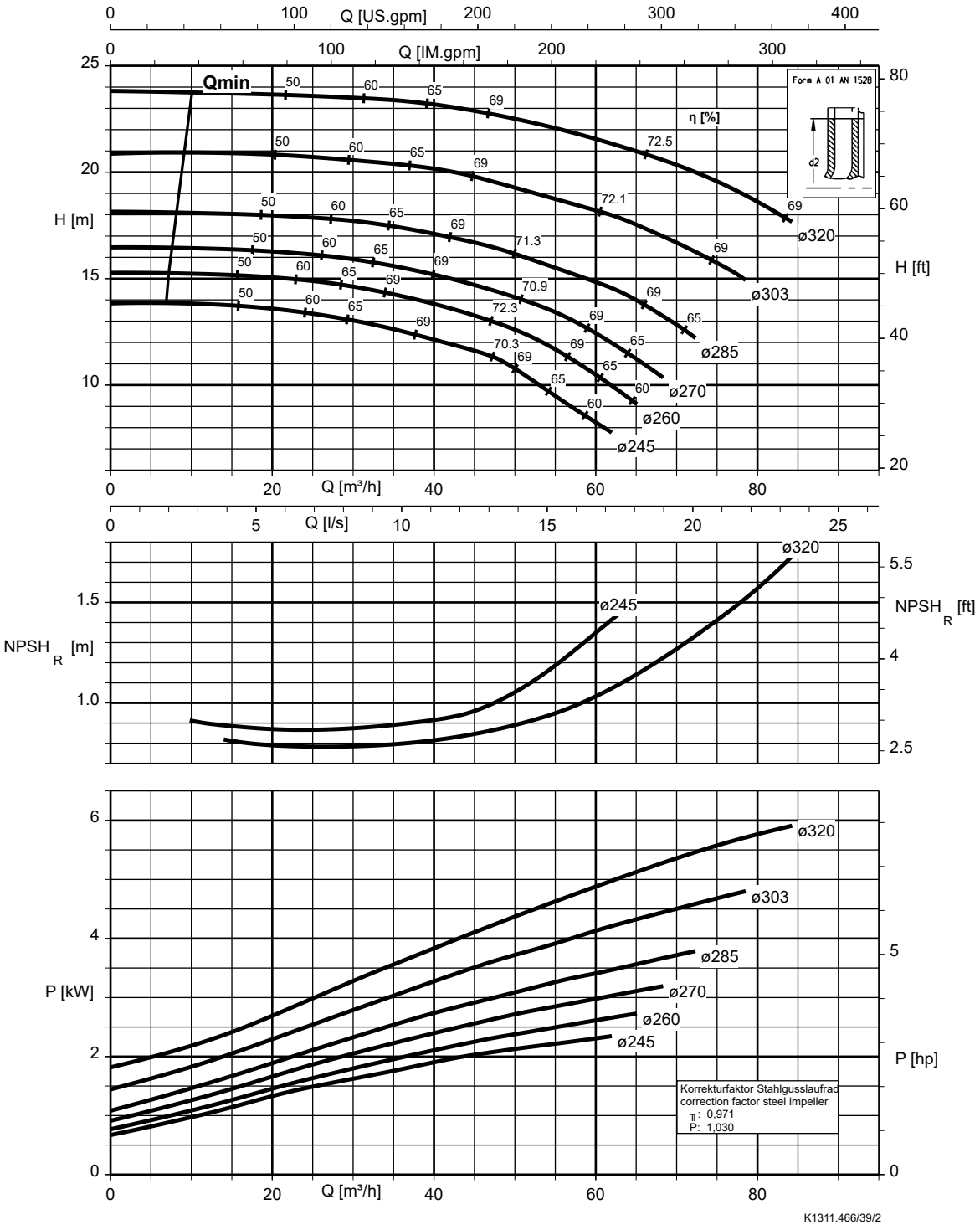
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 080-065-315, n = 1160 t/min

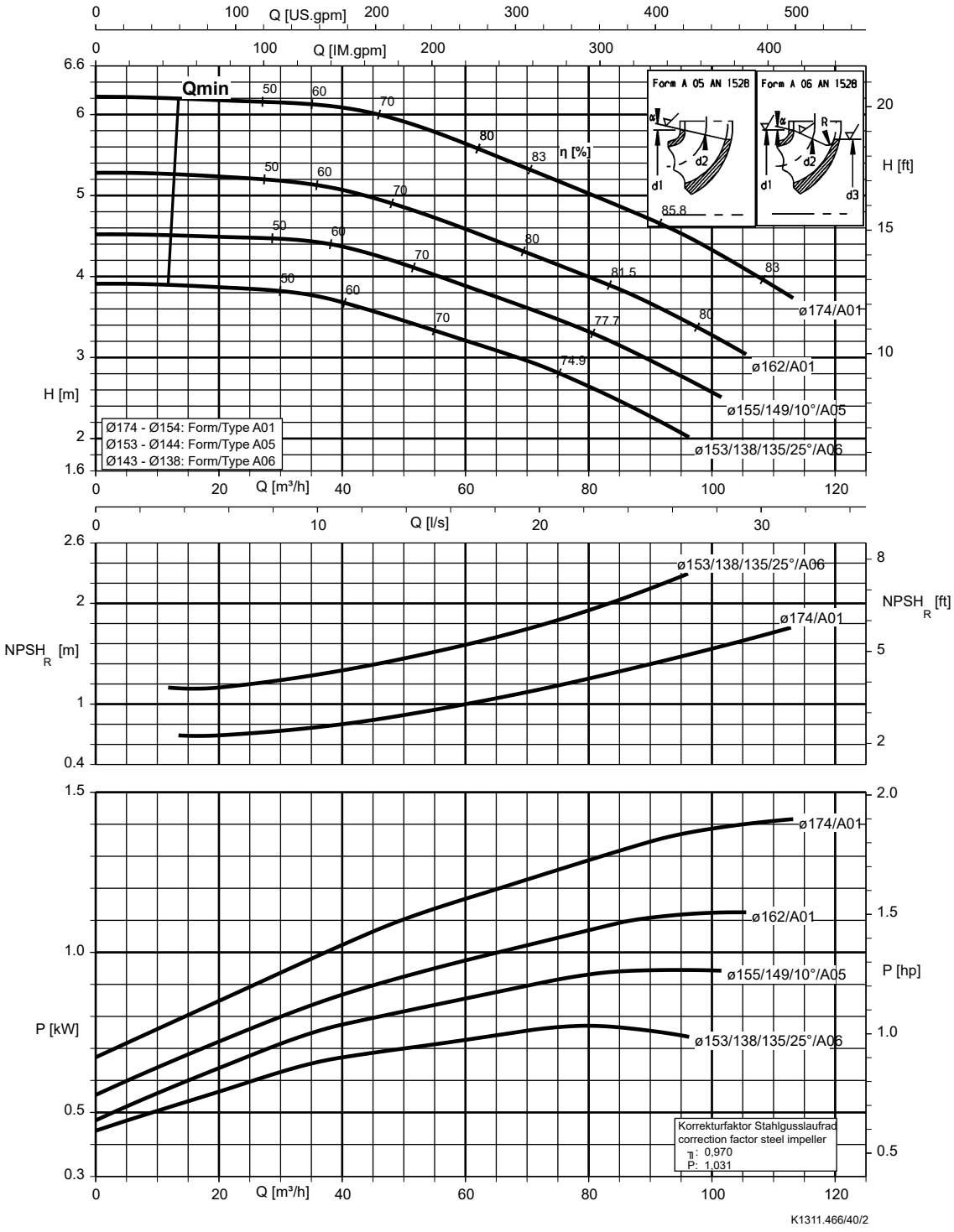
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 100-080-160, n = 1160 t/min

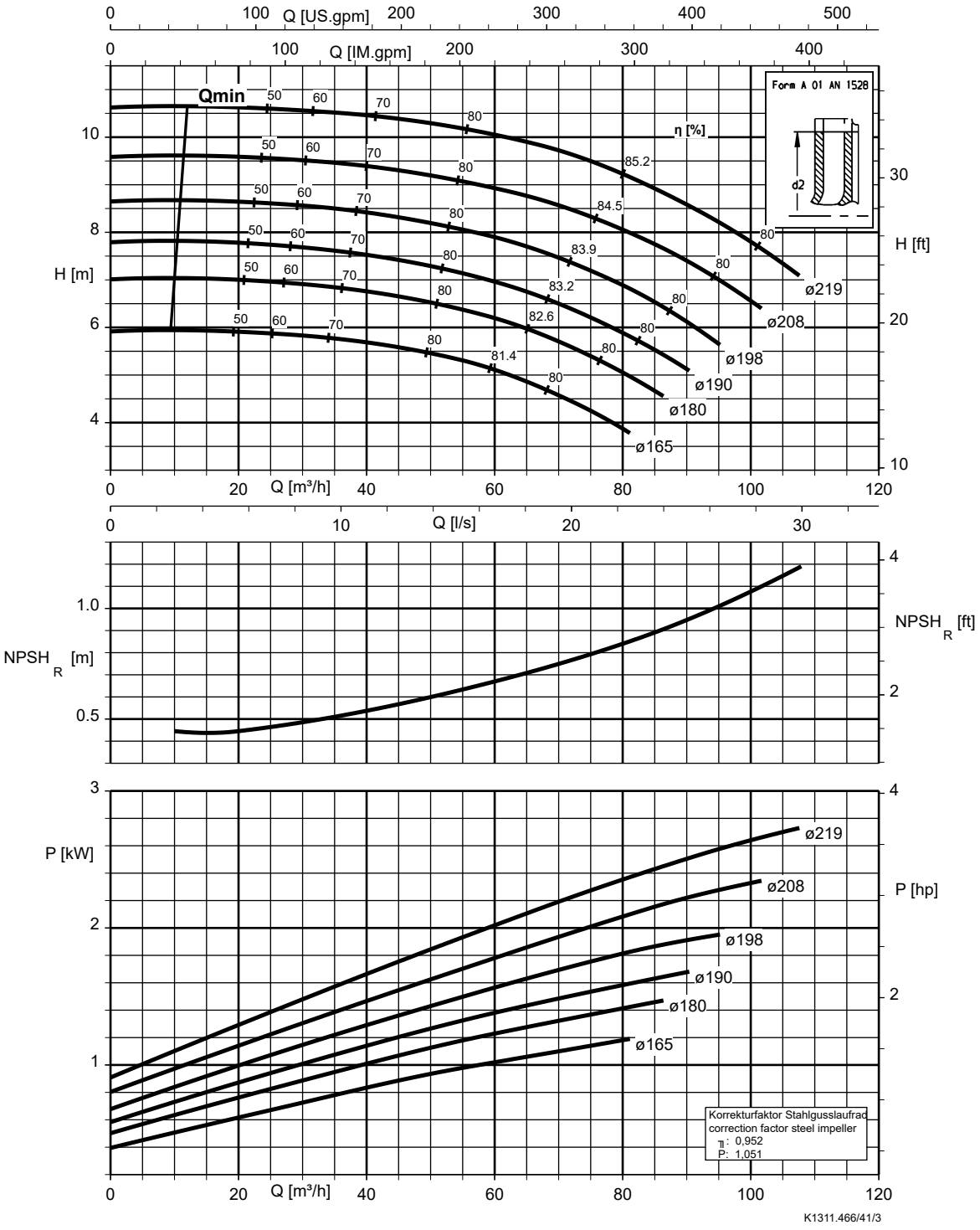
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 100-080-200, n = 1160 t/min

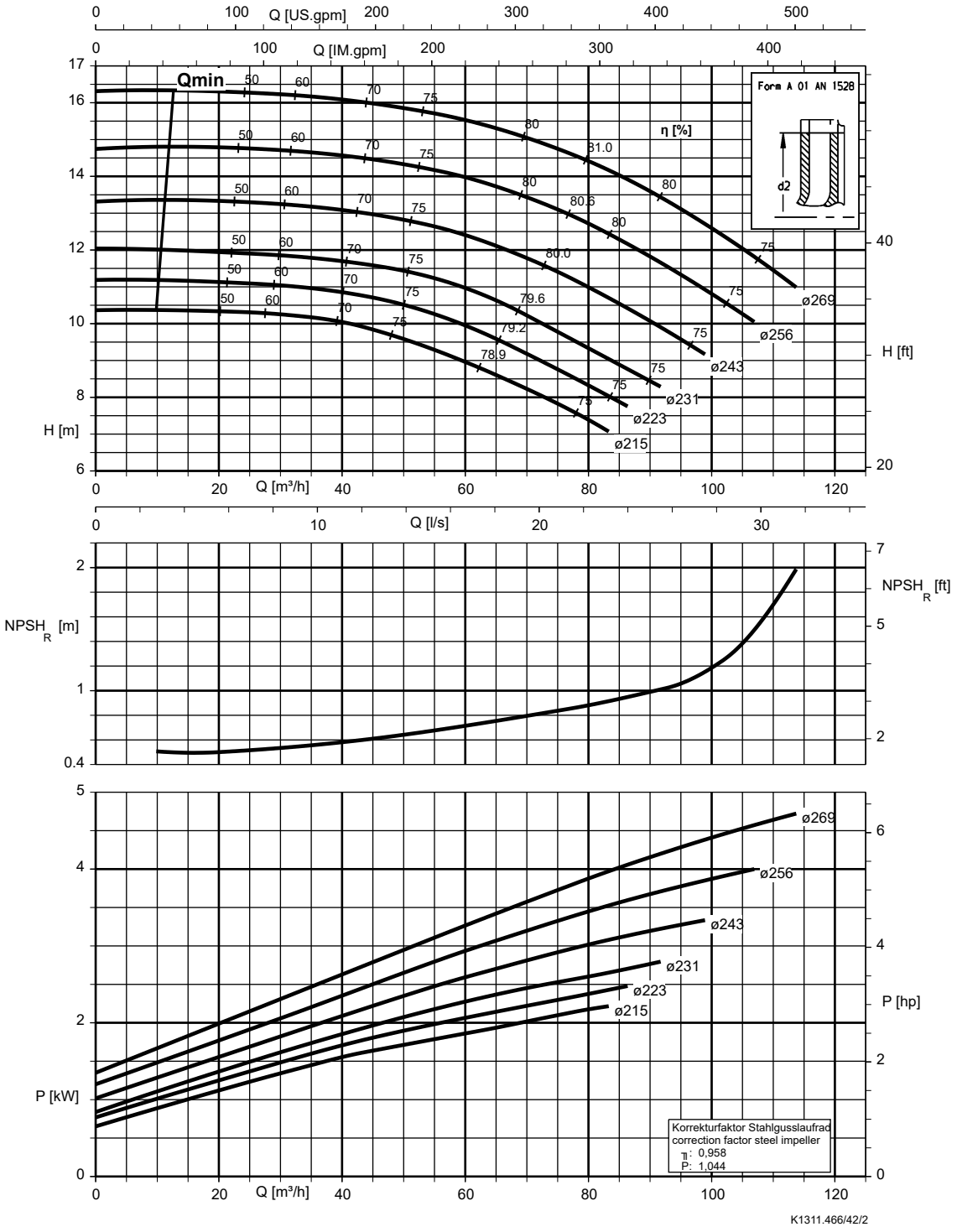
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 100-080-250, n = 1160 t/min

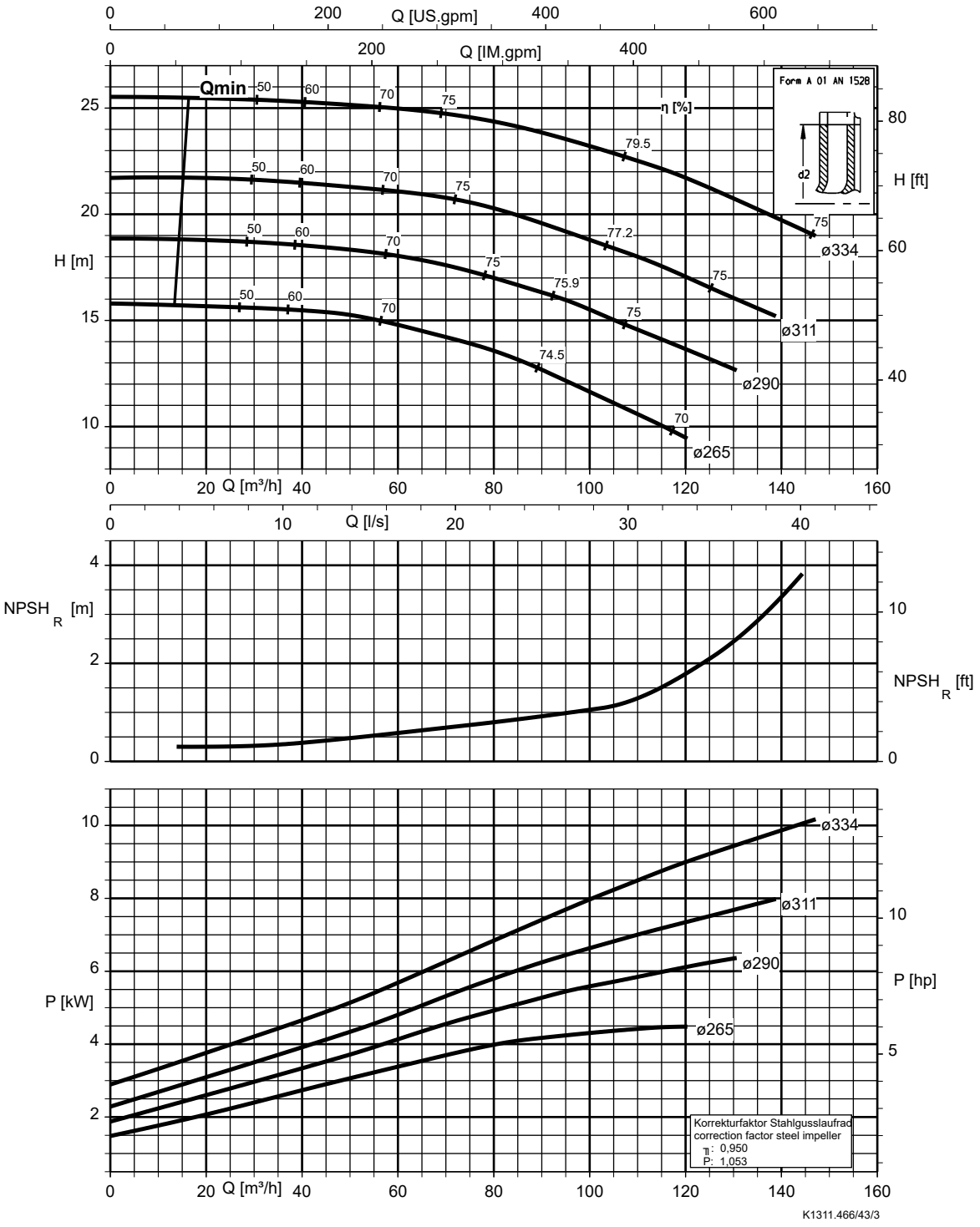
Etanorm SYT, Etabloc



1311.46/11-FR

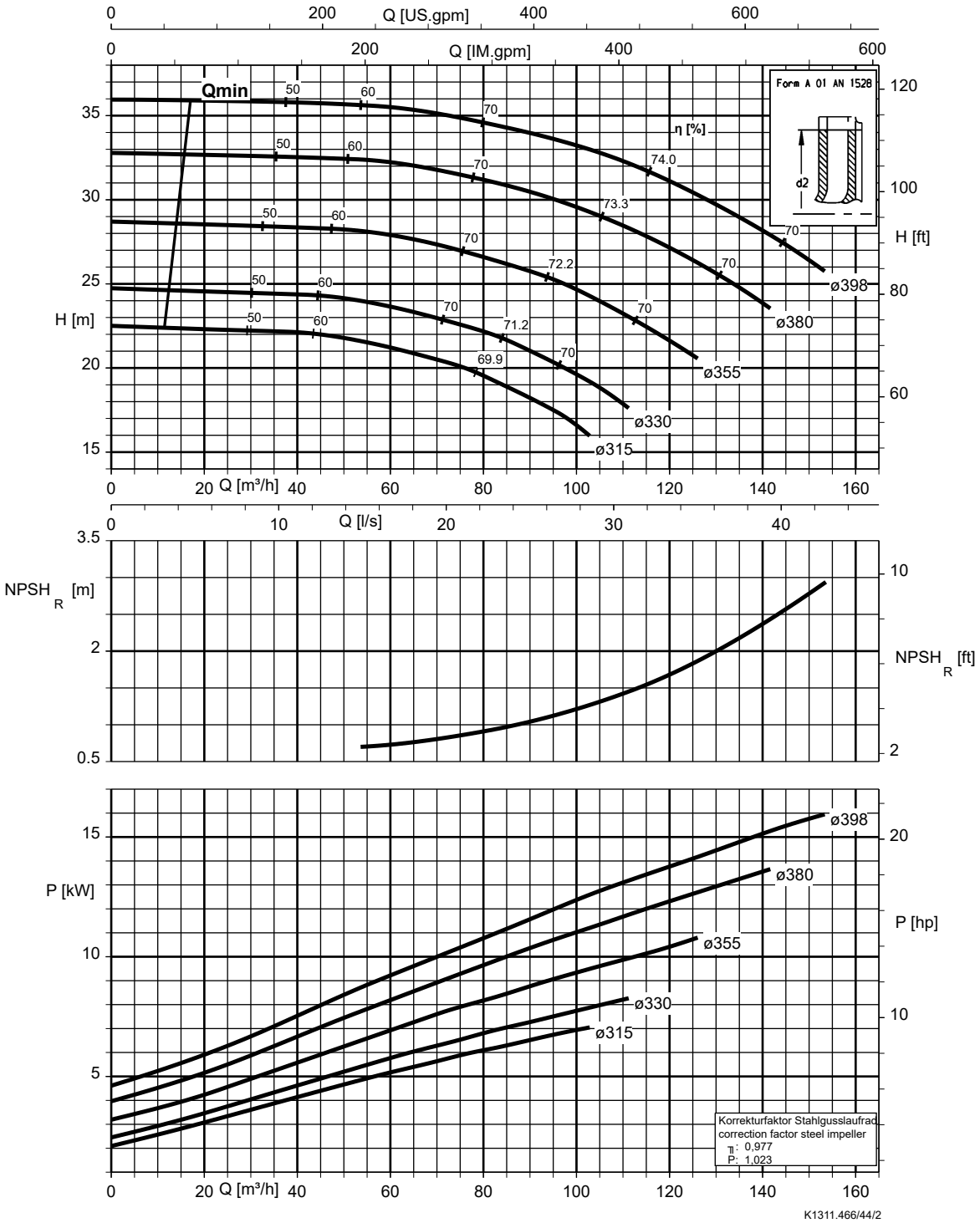
Etanorm 100-080-315, n = 1160 t/min

Etanorm SYT, Etabloc



1311.46/11-FR

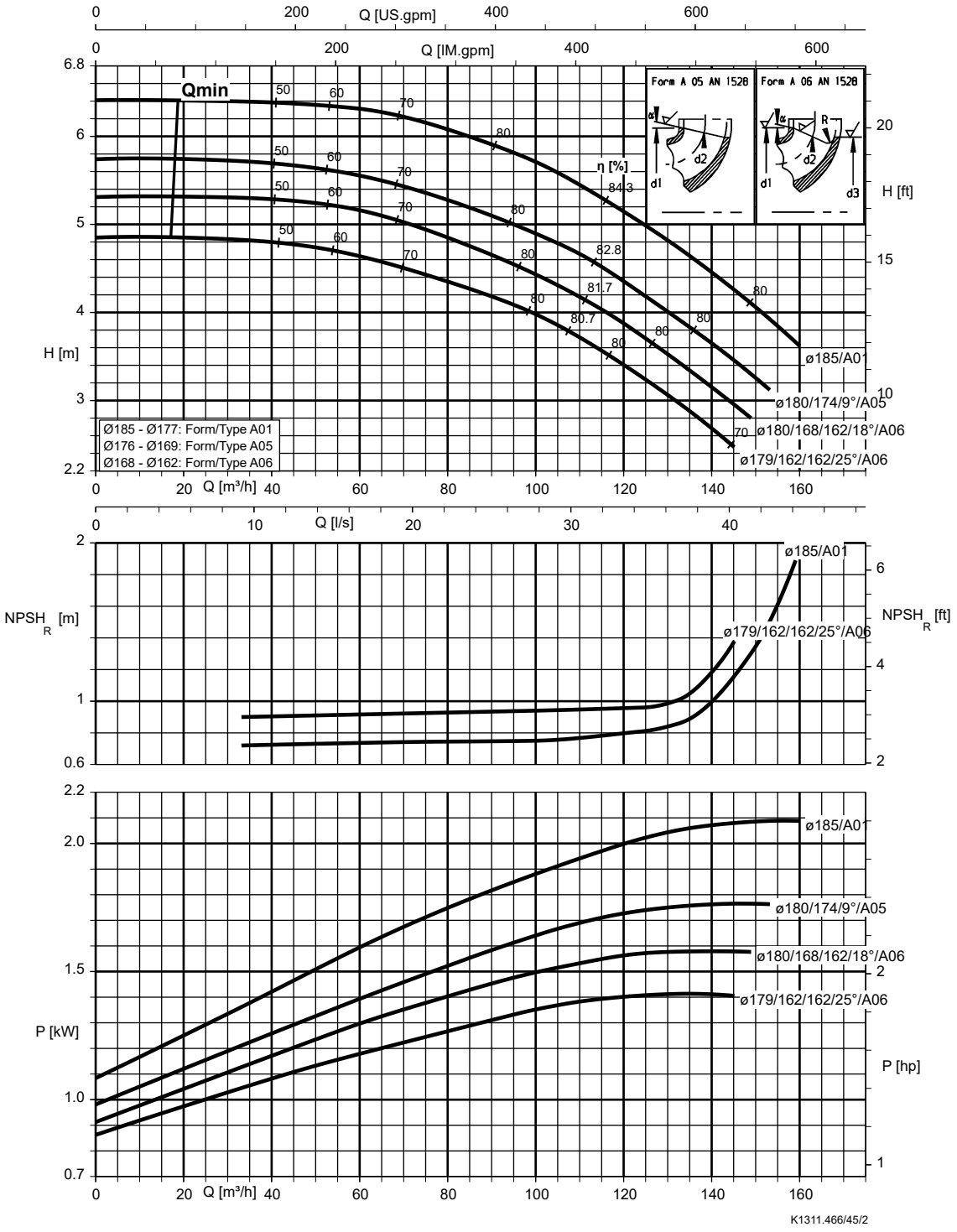
Etanorm 100-080-400, n = 1160 min^{-1}



1311.46/11-FR

Etanorm 125-100-160, n = 1160 t/min

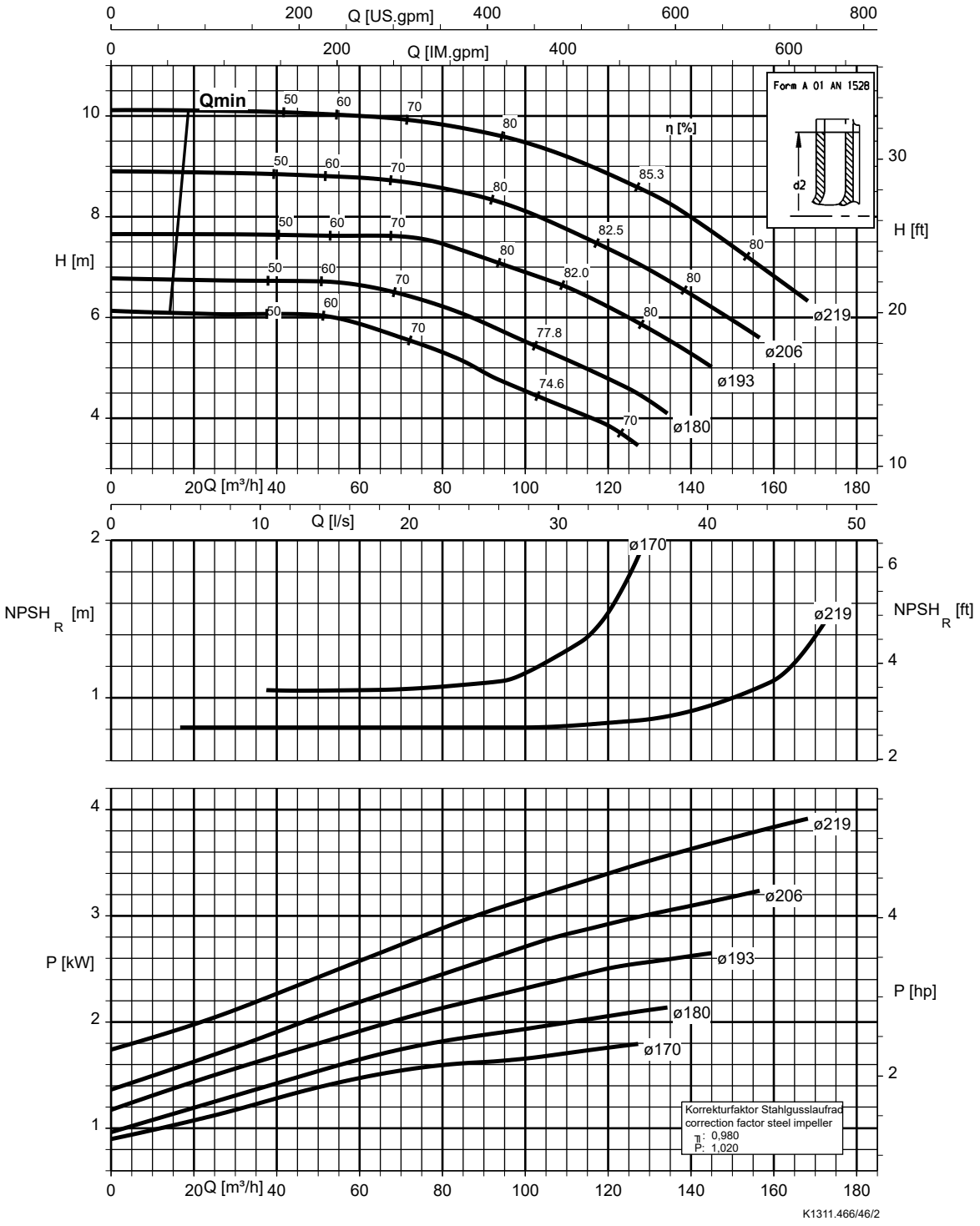
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 125-100-200, n = 1160 t/min

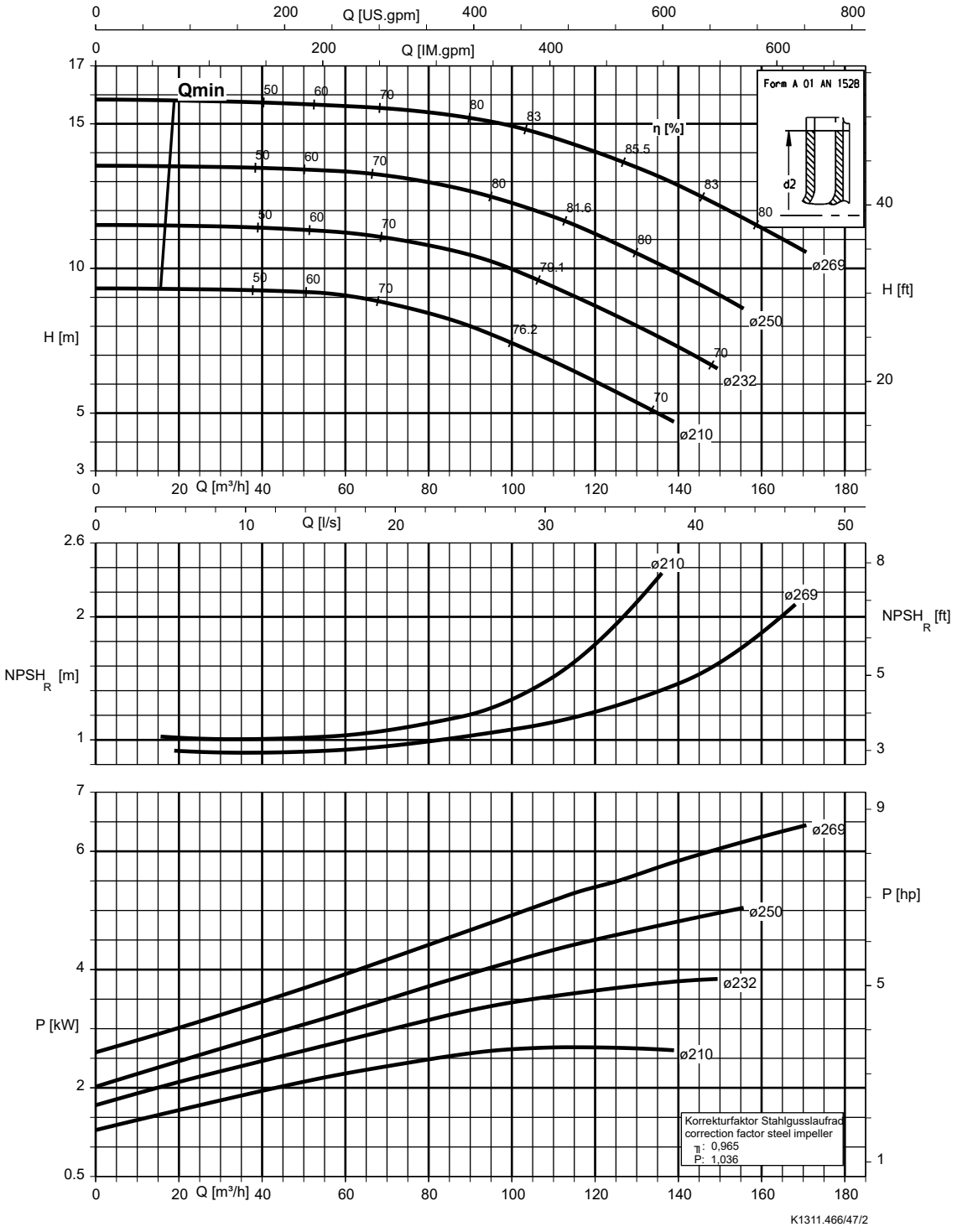
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 125-100-250, n = 1160 t/min

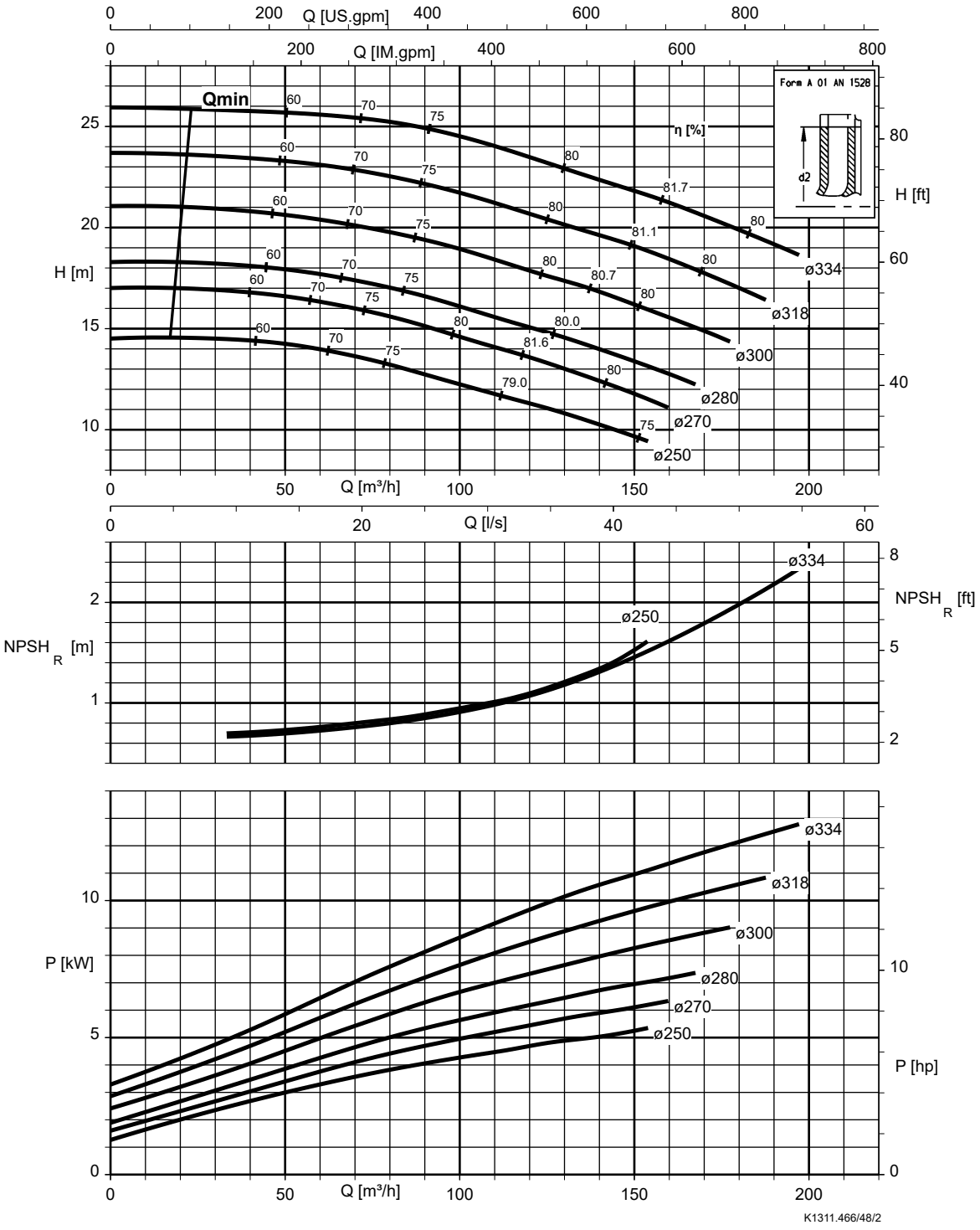
Etanorm SYT, Etabloc



1311.46/11-FR

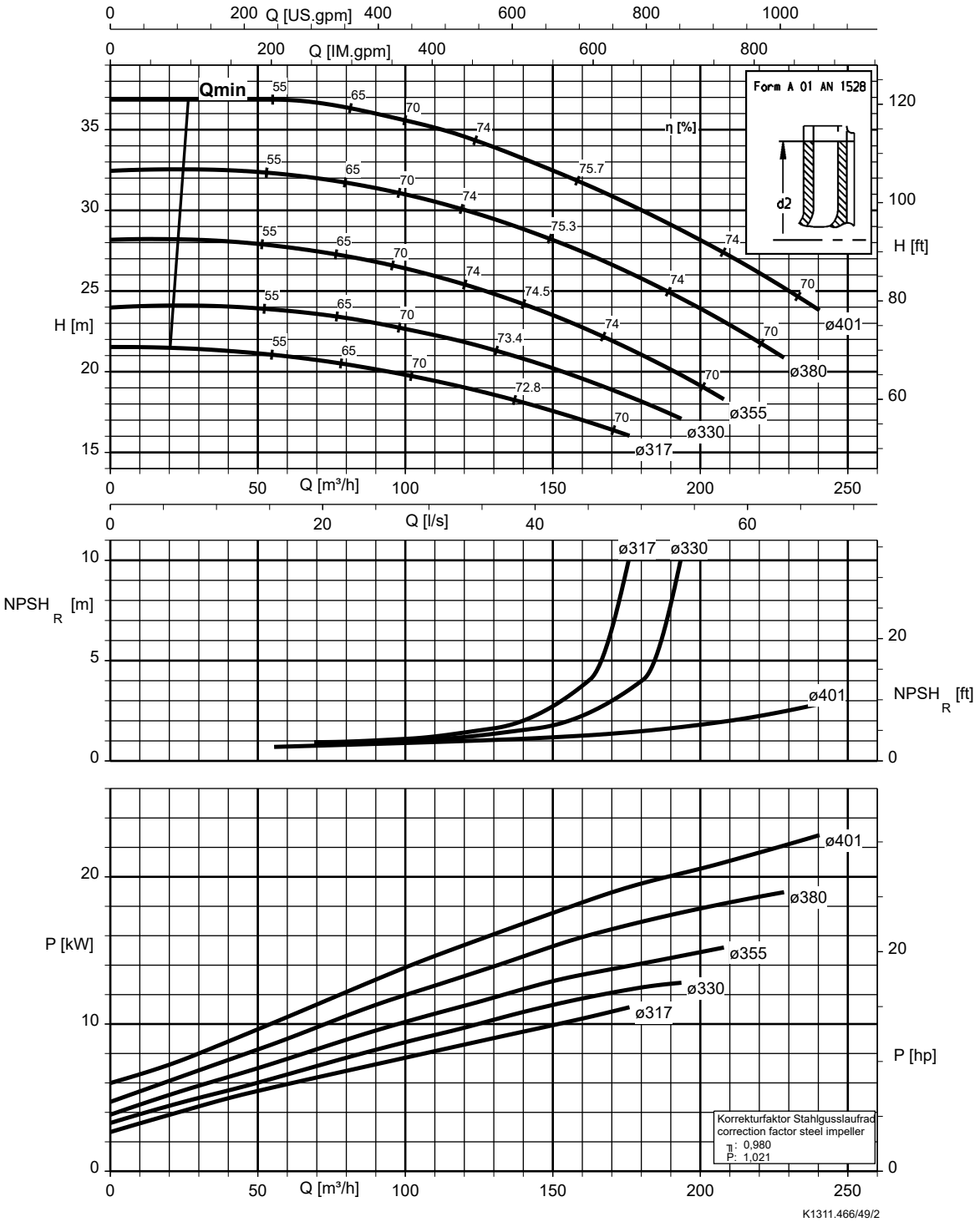
Etanorm 125-100-315, n = 1160 t/min

Etanorm SYT, Etabloc



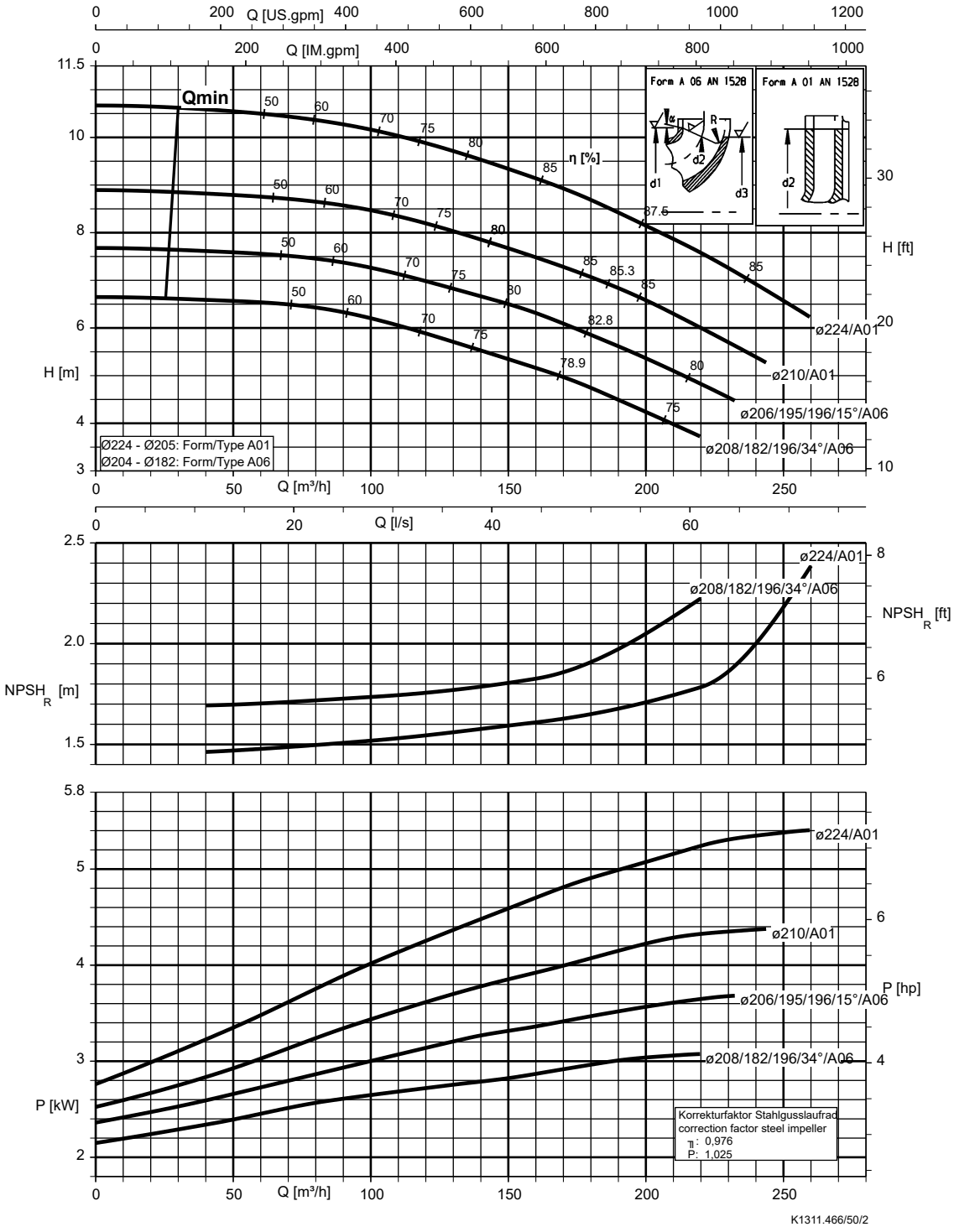
1311.46/11-FR

Etanorm 125-100-400, n = 1160 min^{-1}



Etanorm 150-125-200, n = 1160 t/min

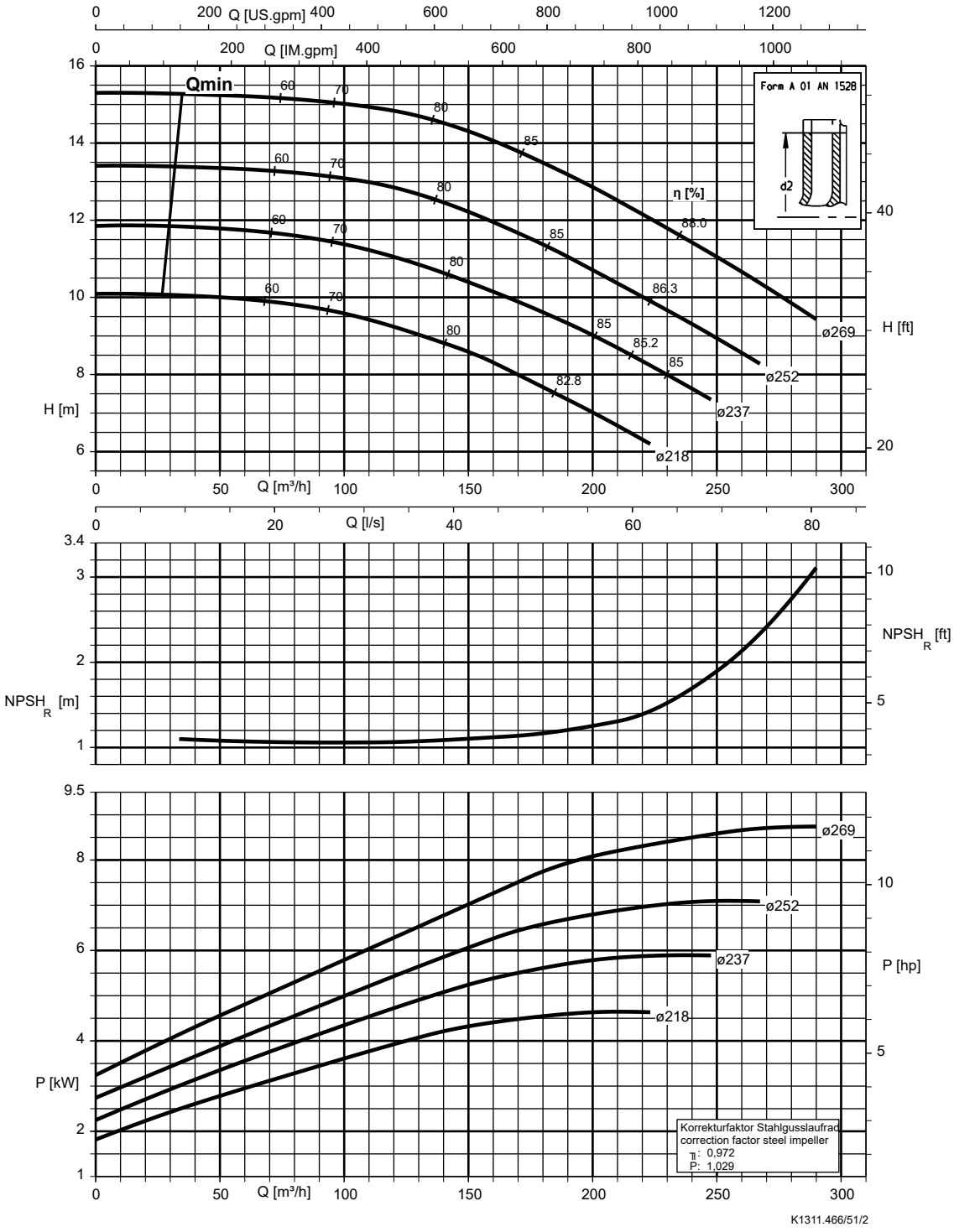
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 150-125-250, n = 1160 t/min

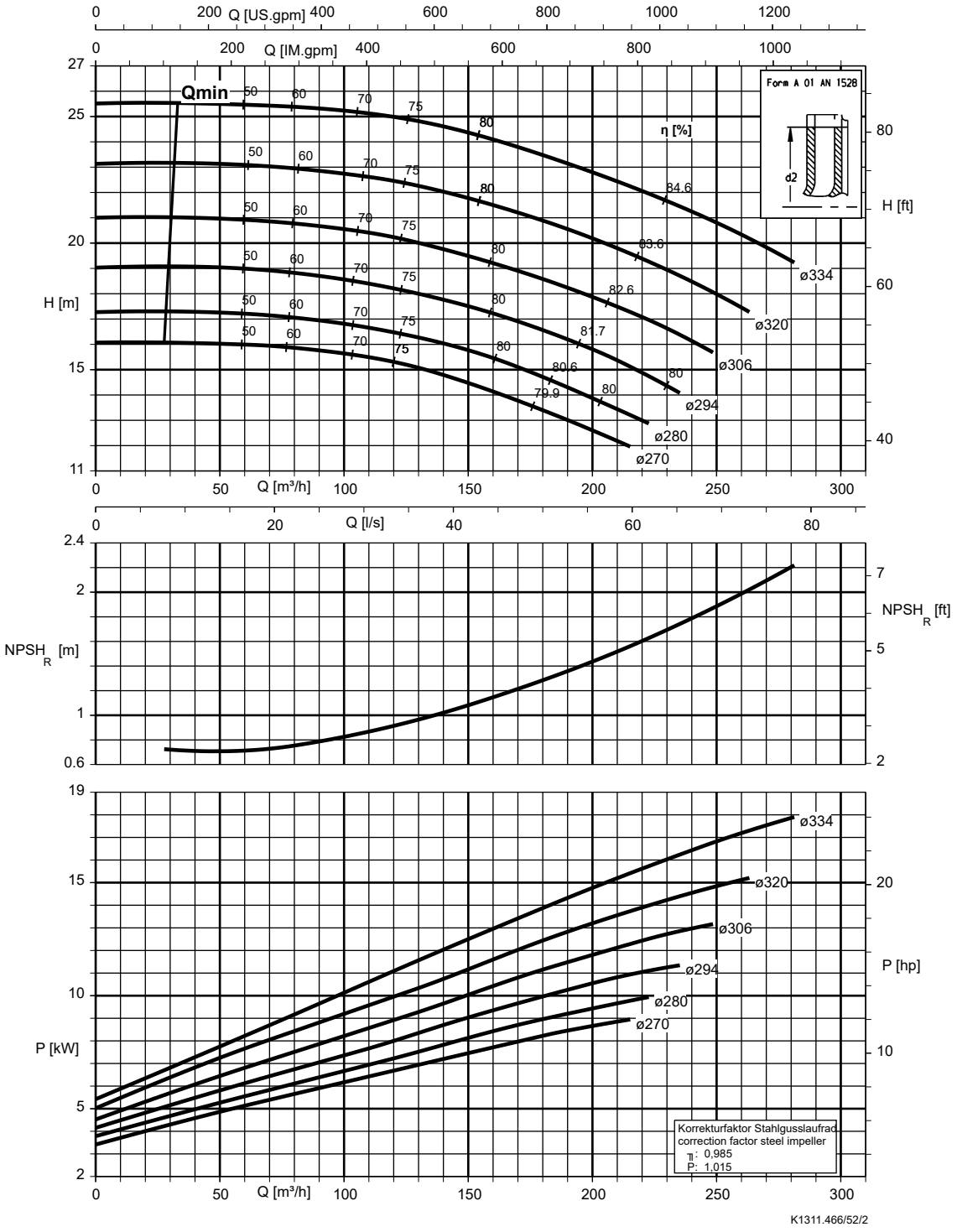
Etanorm SYT, Etabloc



1311.46/11-FR

Etanorm 150-125-315, n = 1160 min^{-1}

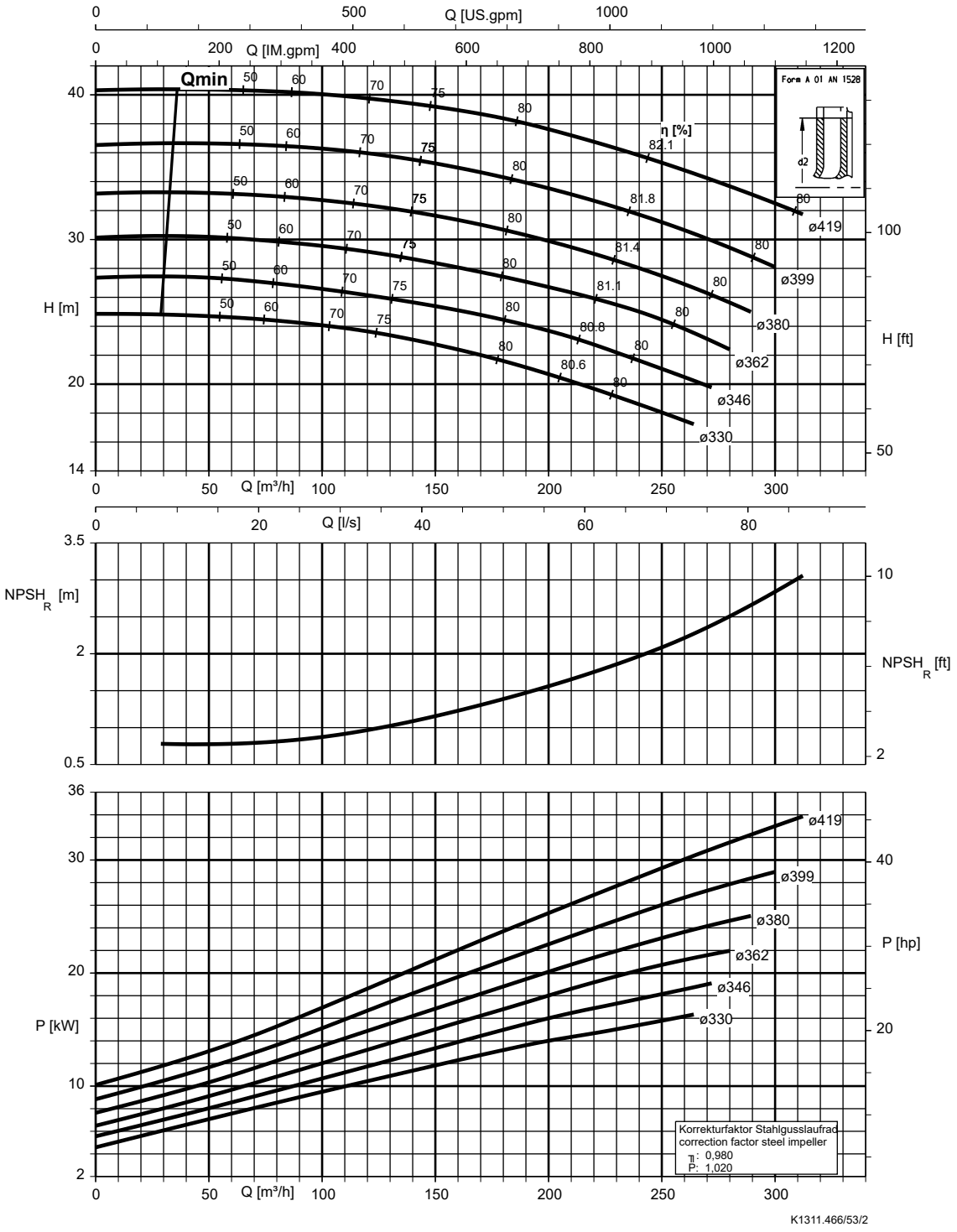
Etanorm SYT



1311.46/11-FR

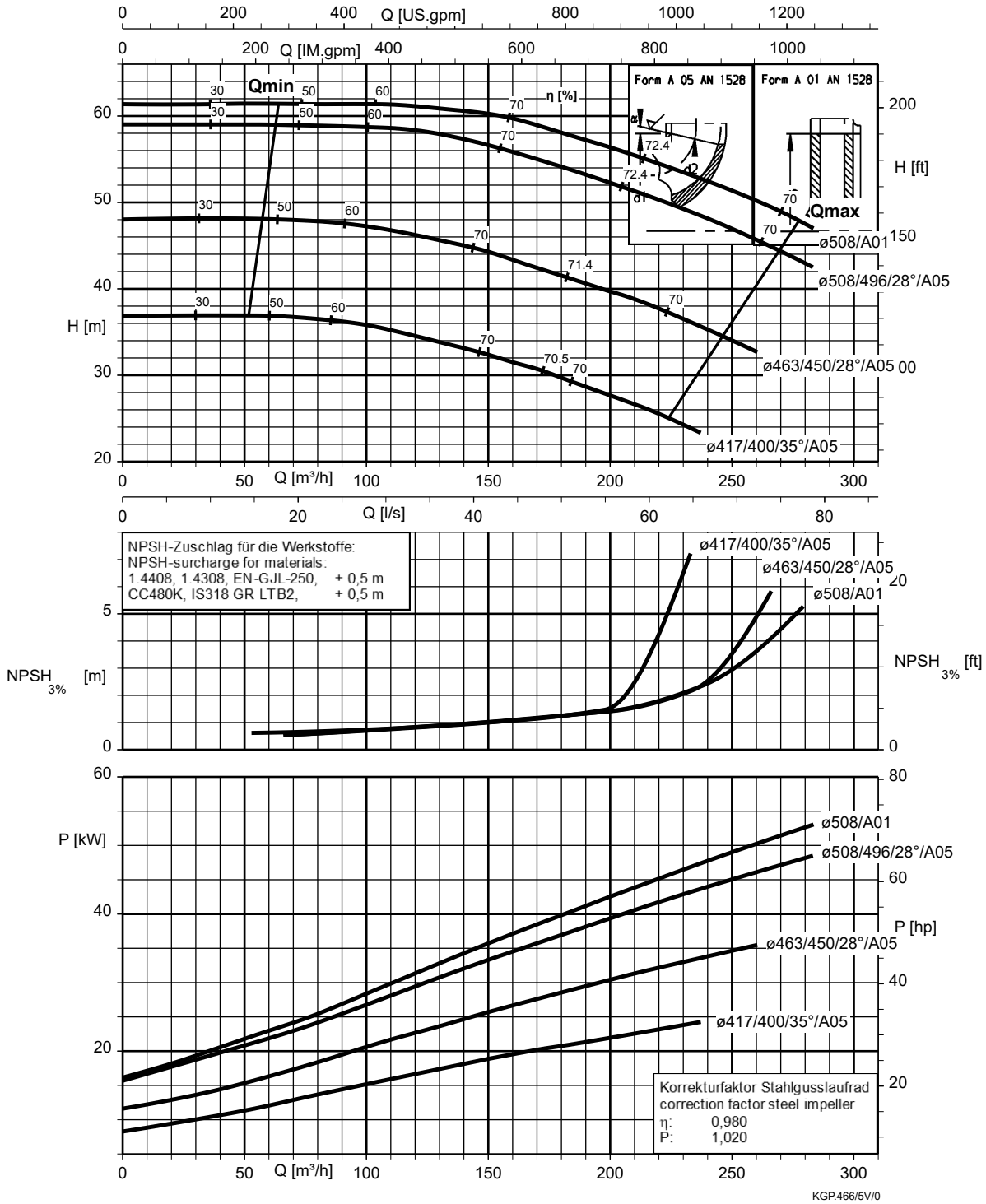
Etanorm 150-125-400, n = 1160 min^{-1}

Etanorm SYT



1311.46/11-FR

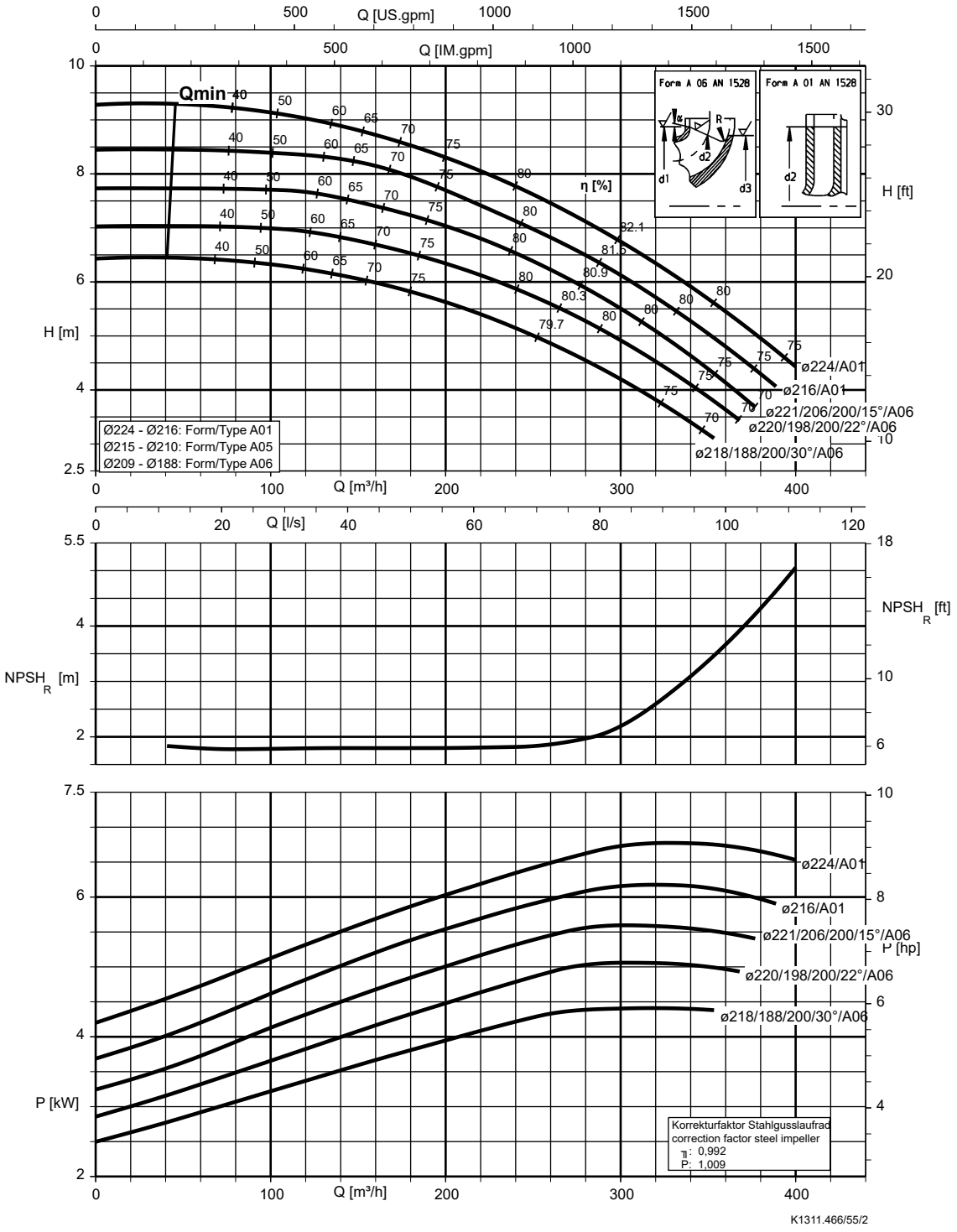
Etanorm 150-125-510, n = 1160 min^{-1}



1311.46/11-FR

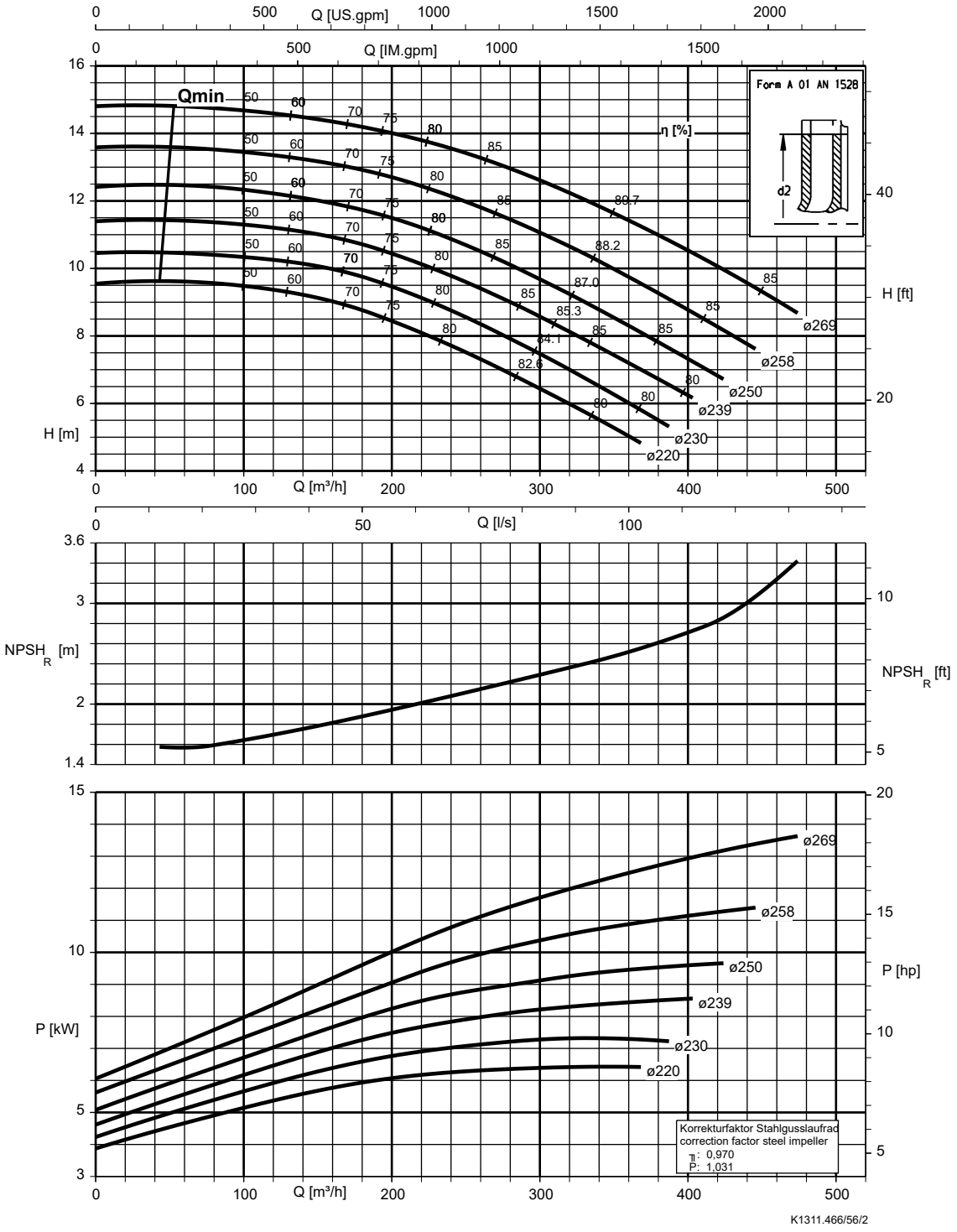
Etanorm 200-150-200, n = 1160 t/min

Etabloc



Etanorm 200-150-250, n = 1160 t/min

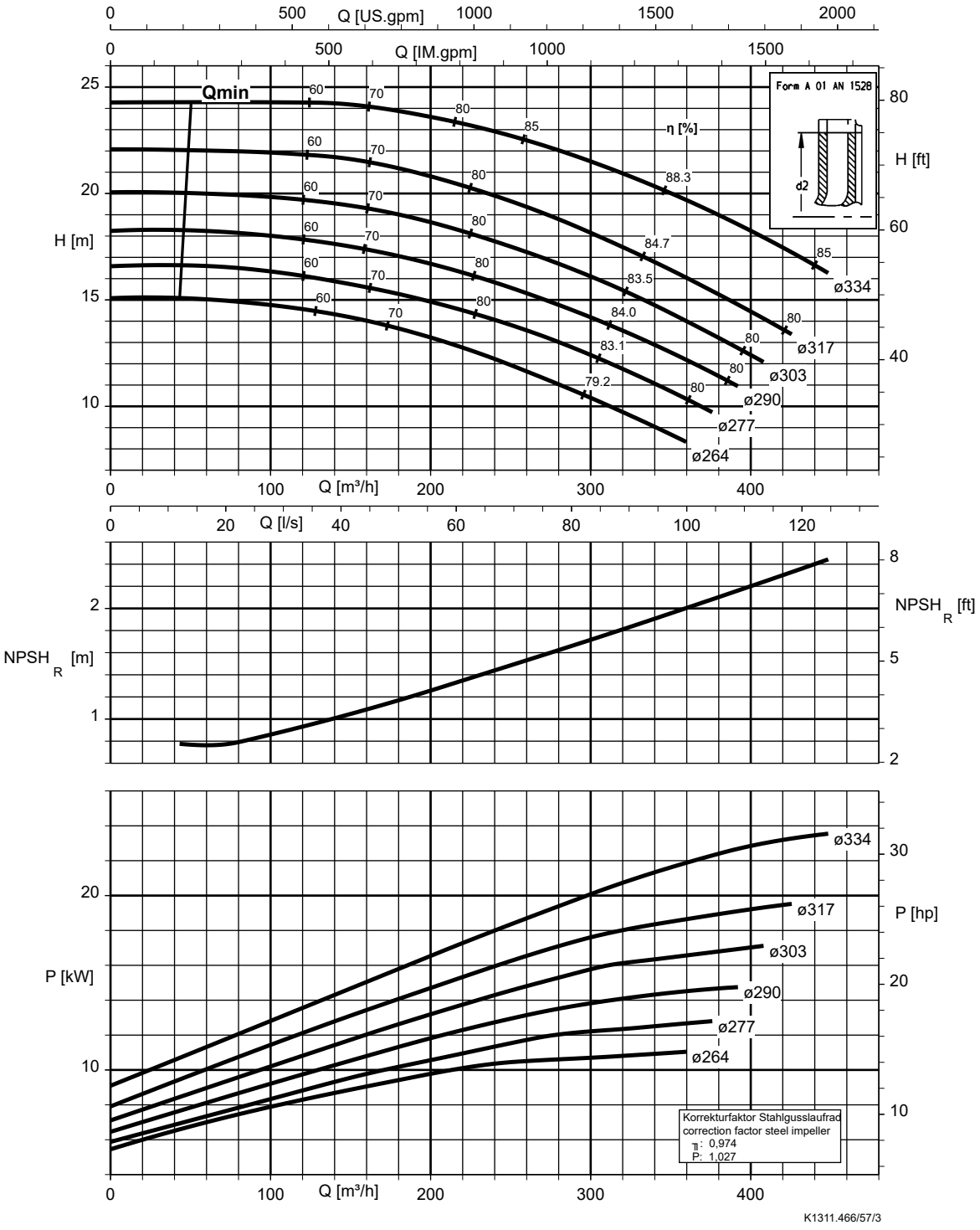
Etabloc



1311.46/11-FR

Etanorm 200-150-315, n = 1160 min^{-1}

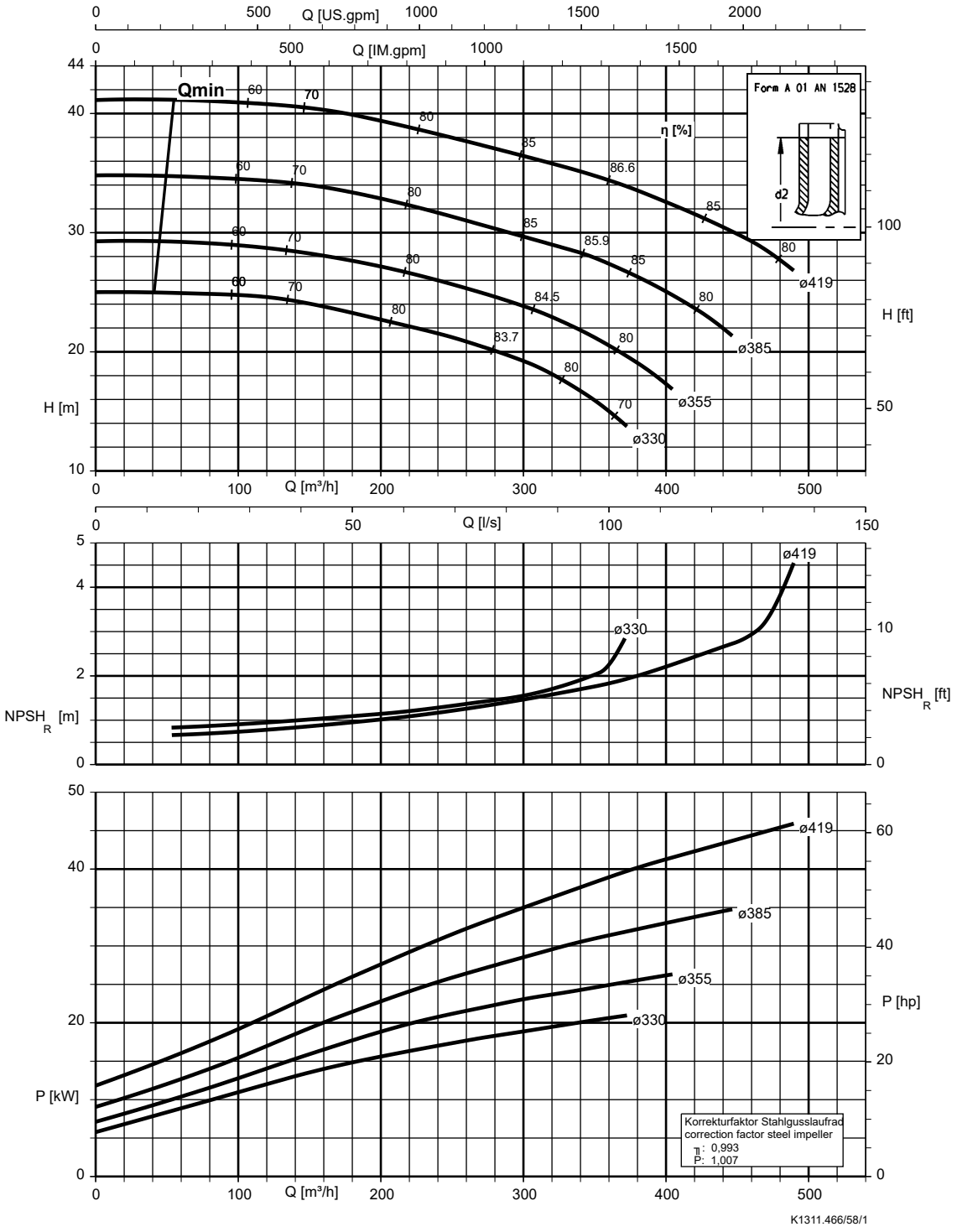
Etanorm SYT



1311.46/11-FR

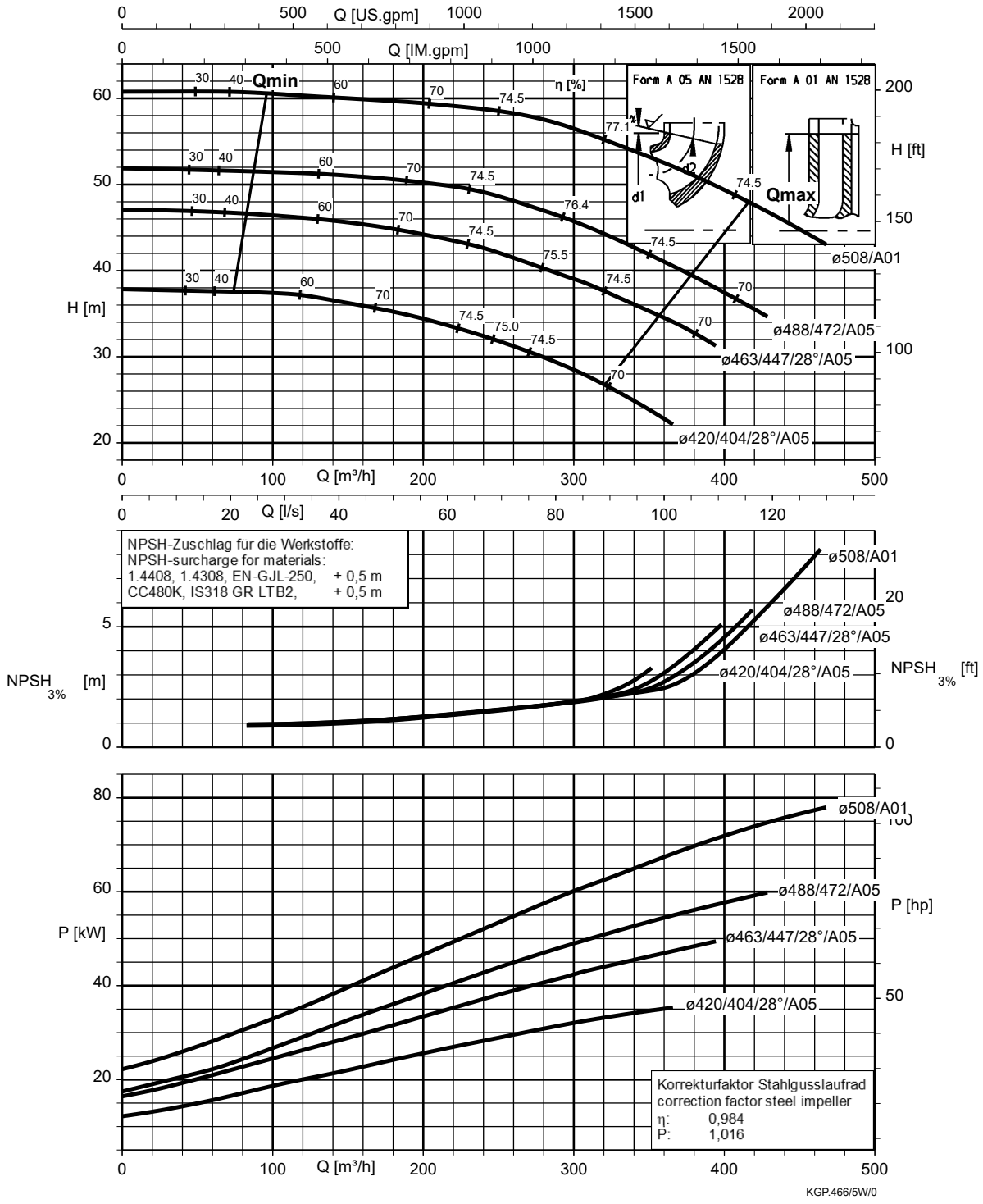
Etanorm 200-150-400, n = 1160 min^{-1}

Etanorm SYT

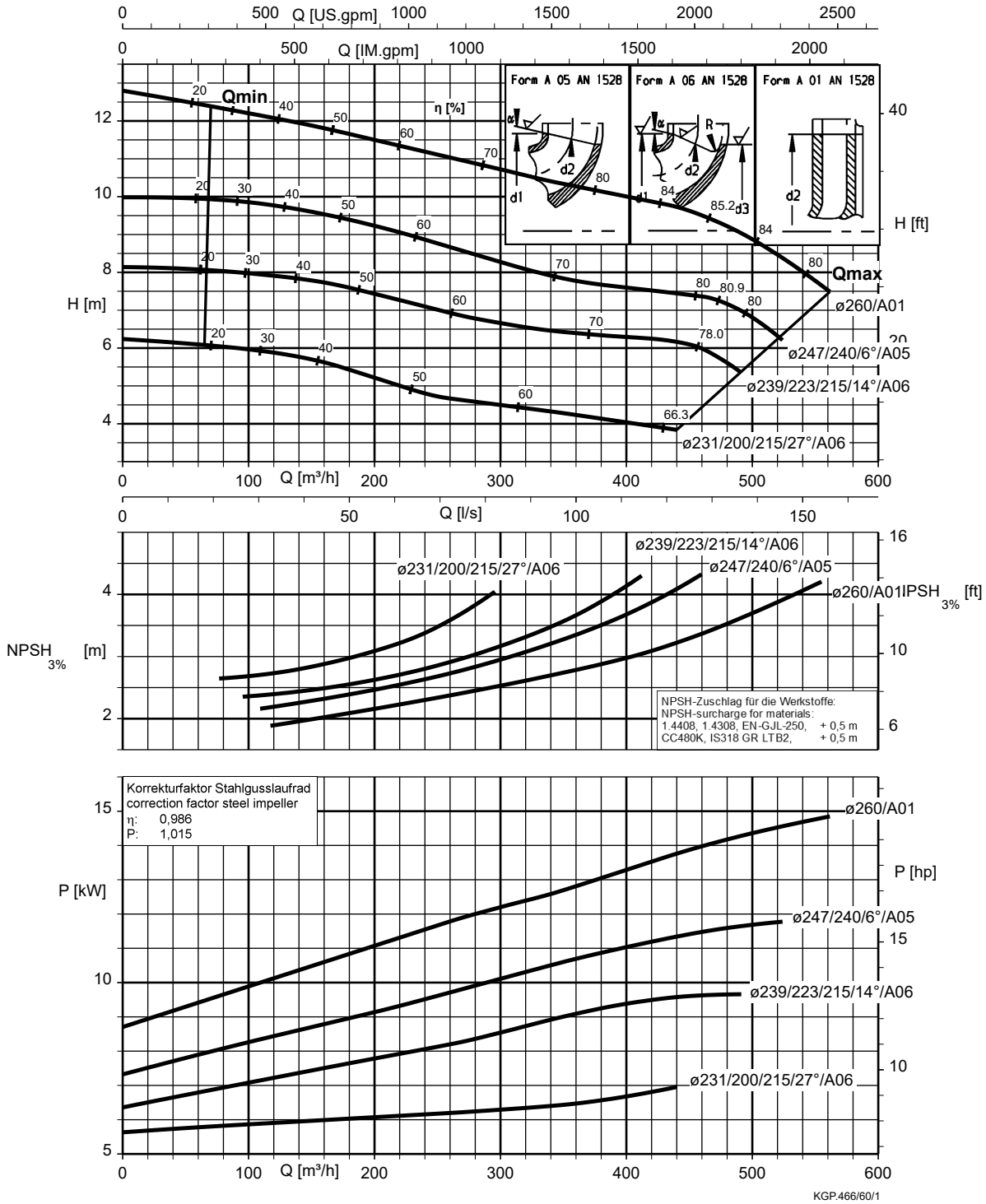


1311.46/11-FR

Etanorm 200-150-510, n = 1160 min^{-1}

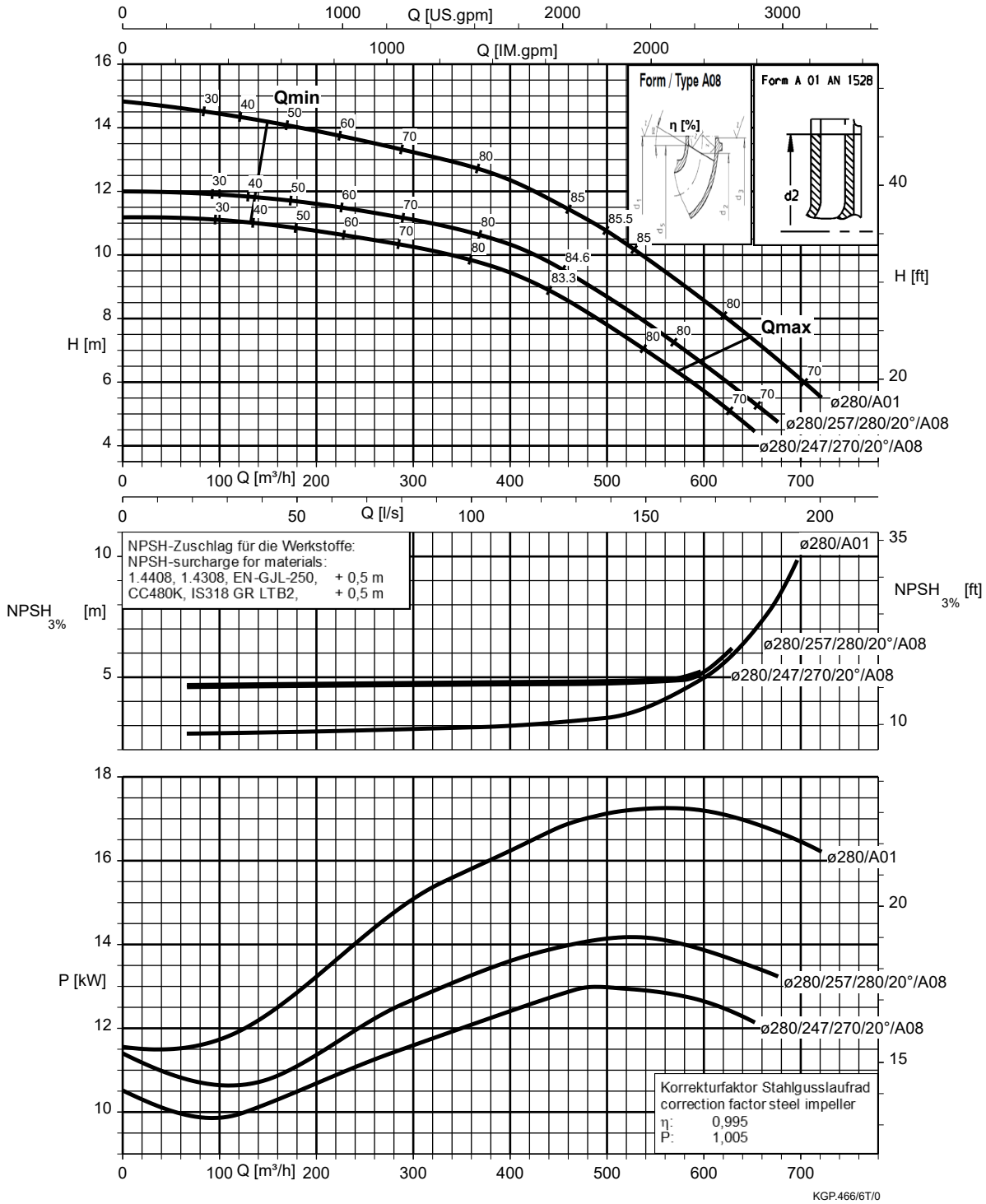


Etanorm 200-200-250, n = 1160 min^{-1}

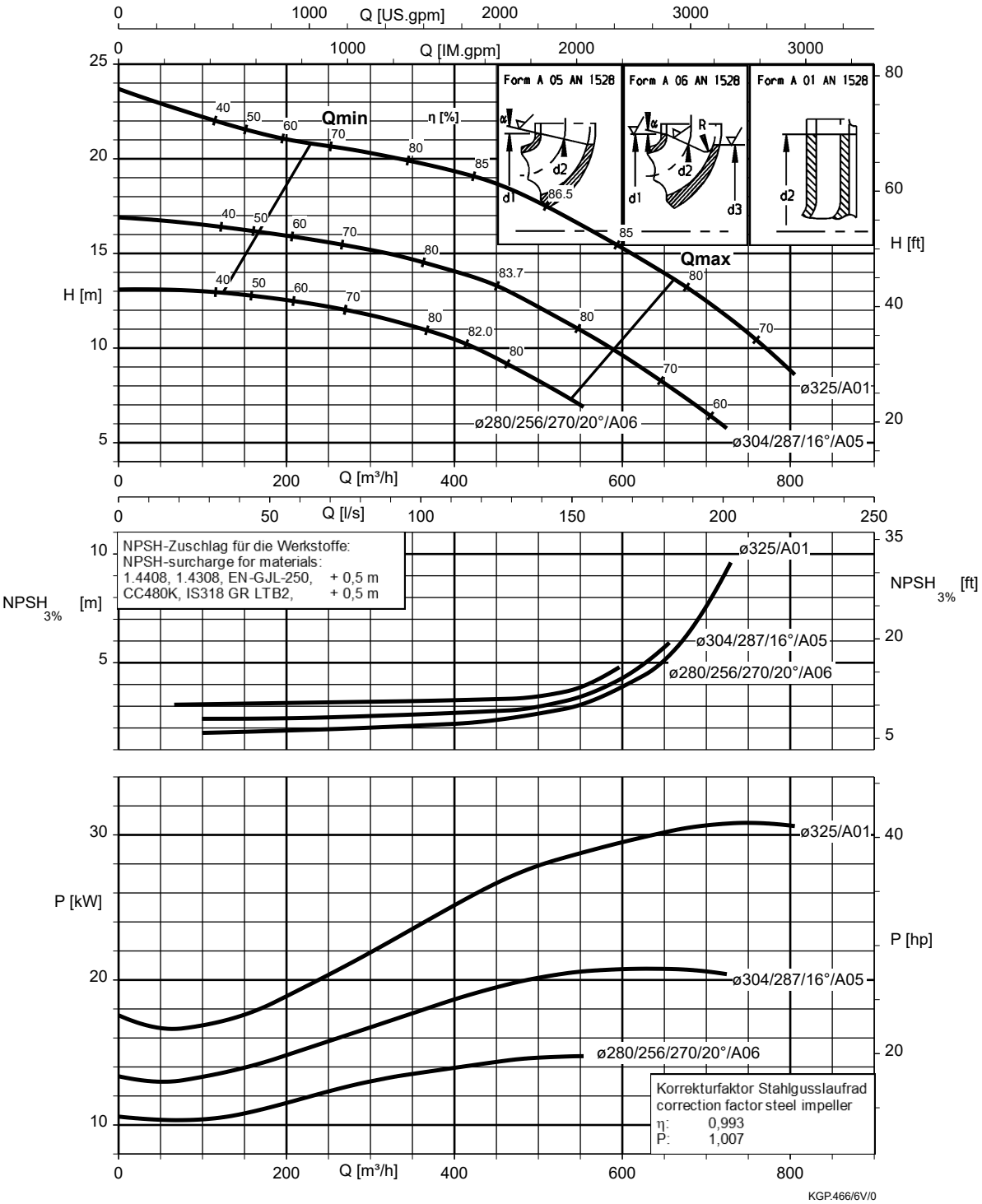


1311.46/11-FR

Etanorm 250-200-275, n = 1160 min^{-1}

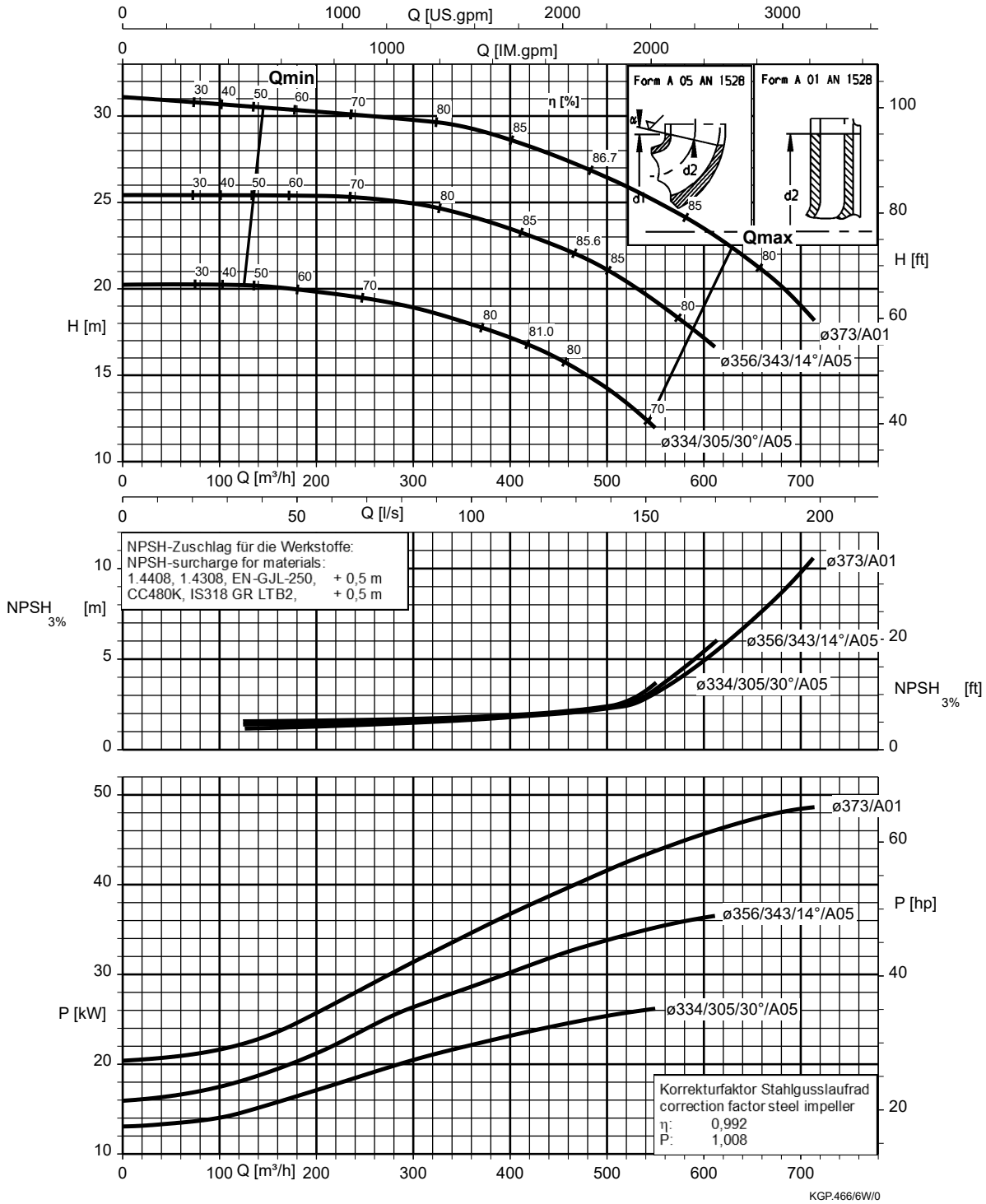


Etanorm 250-200-320, n = 1160 min^{-1}

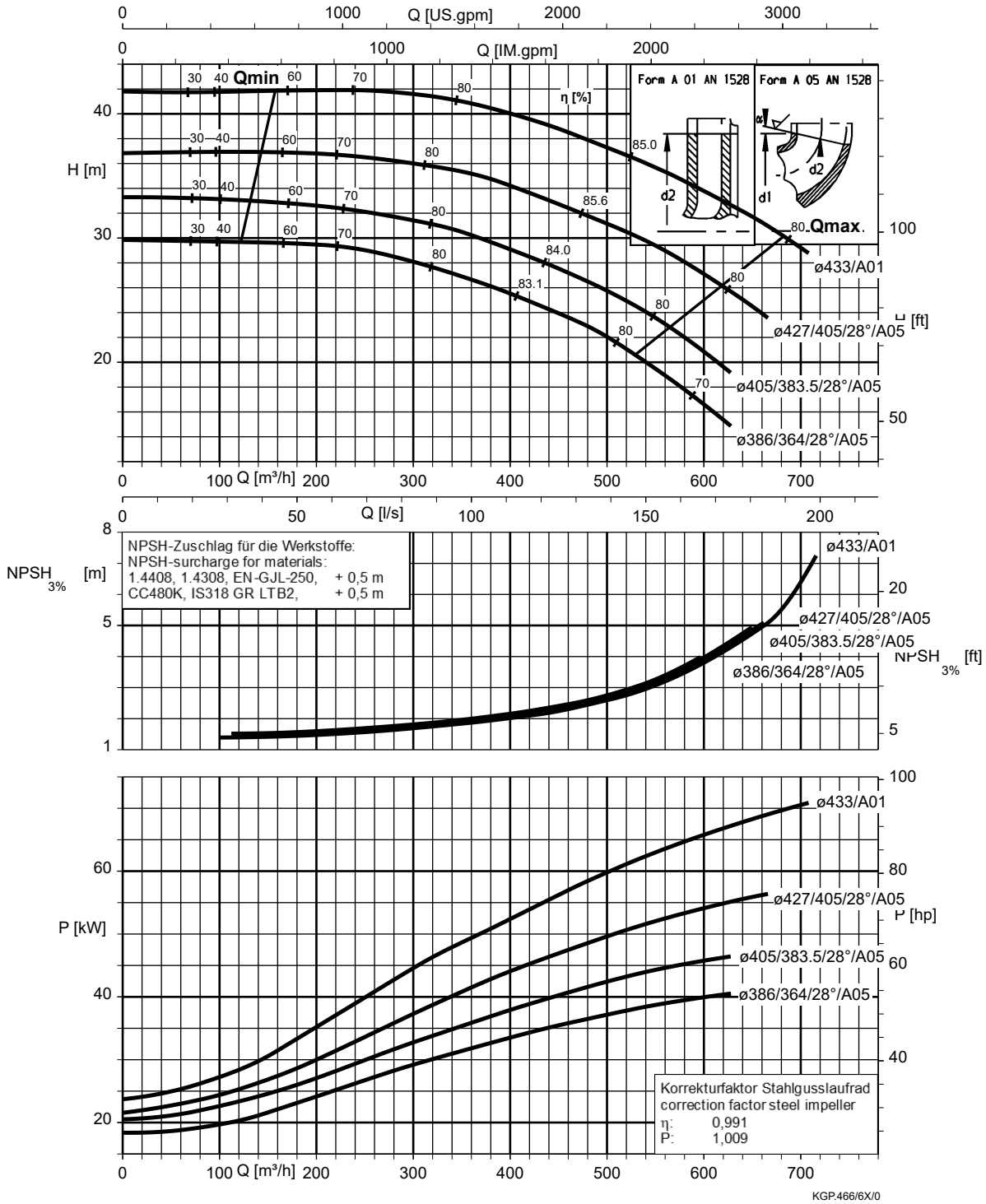


1311.46/11-FR

Etanorm 250-200-375, n = 1160 min^{-1}

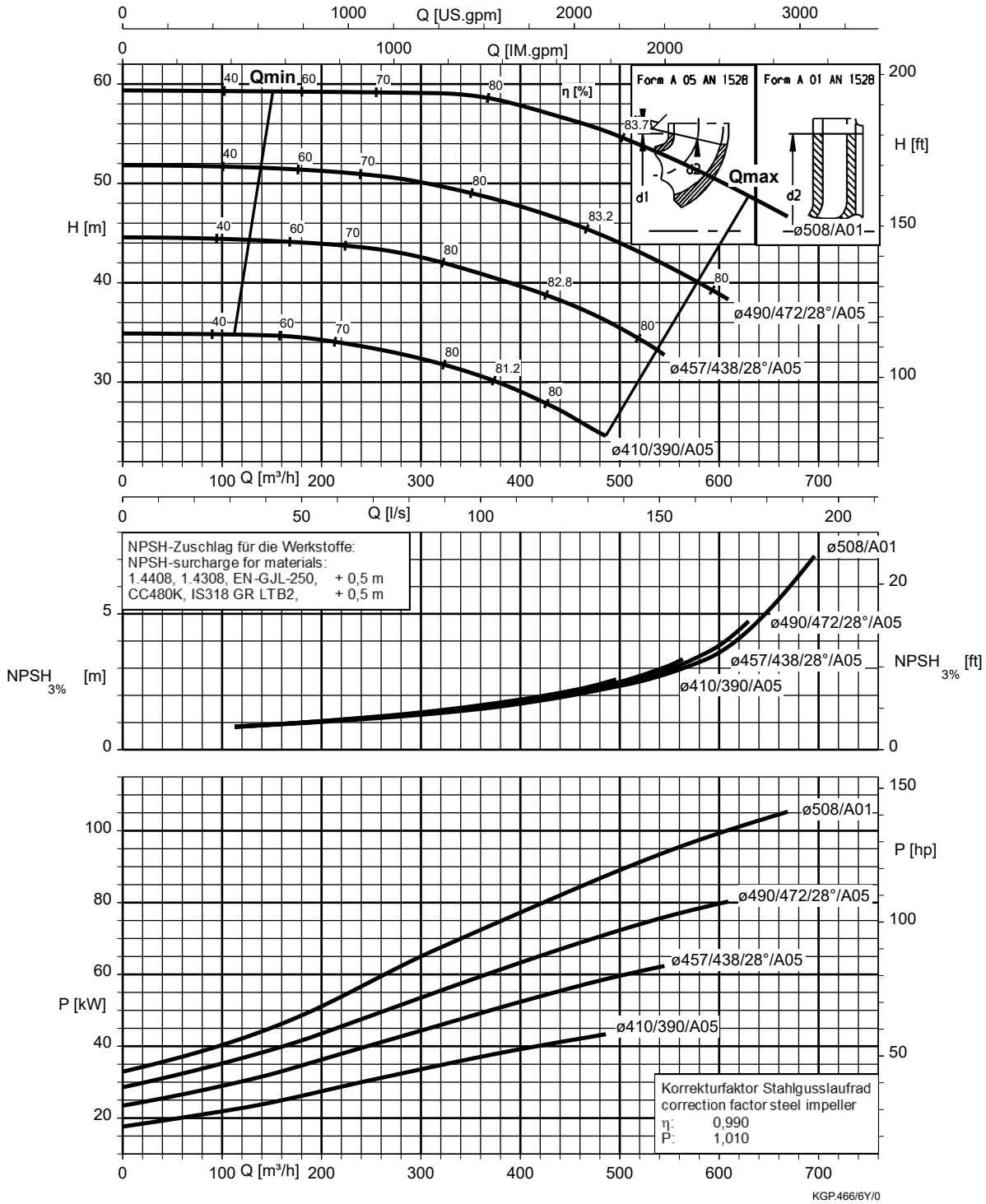


Etanorm 250-200-435 , n = 1160 min^{-1}



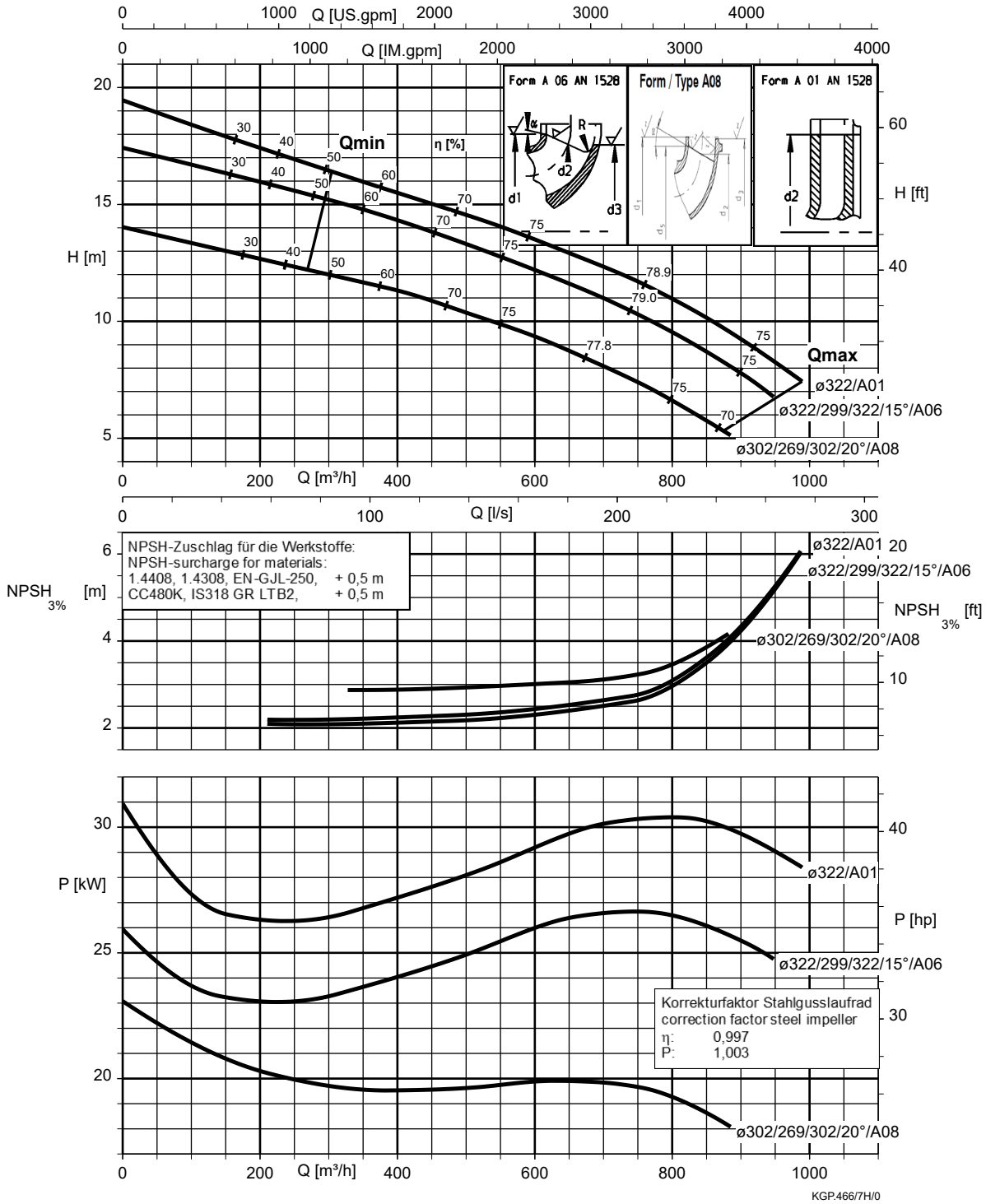
1311.46/11-FR

Etanorm 250-200-510 , n = 1160 min^{-1}



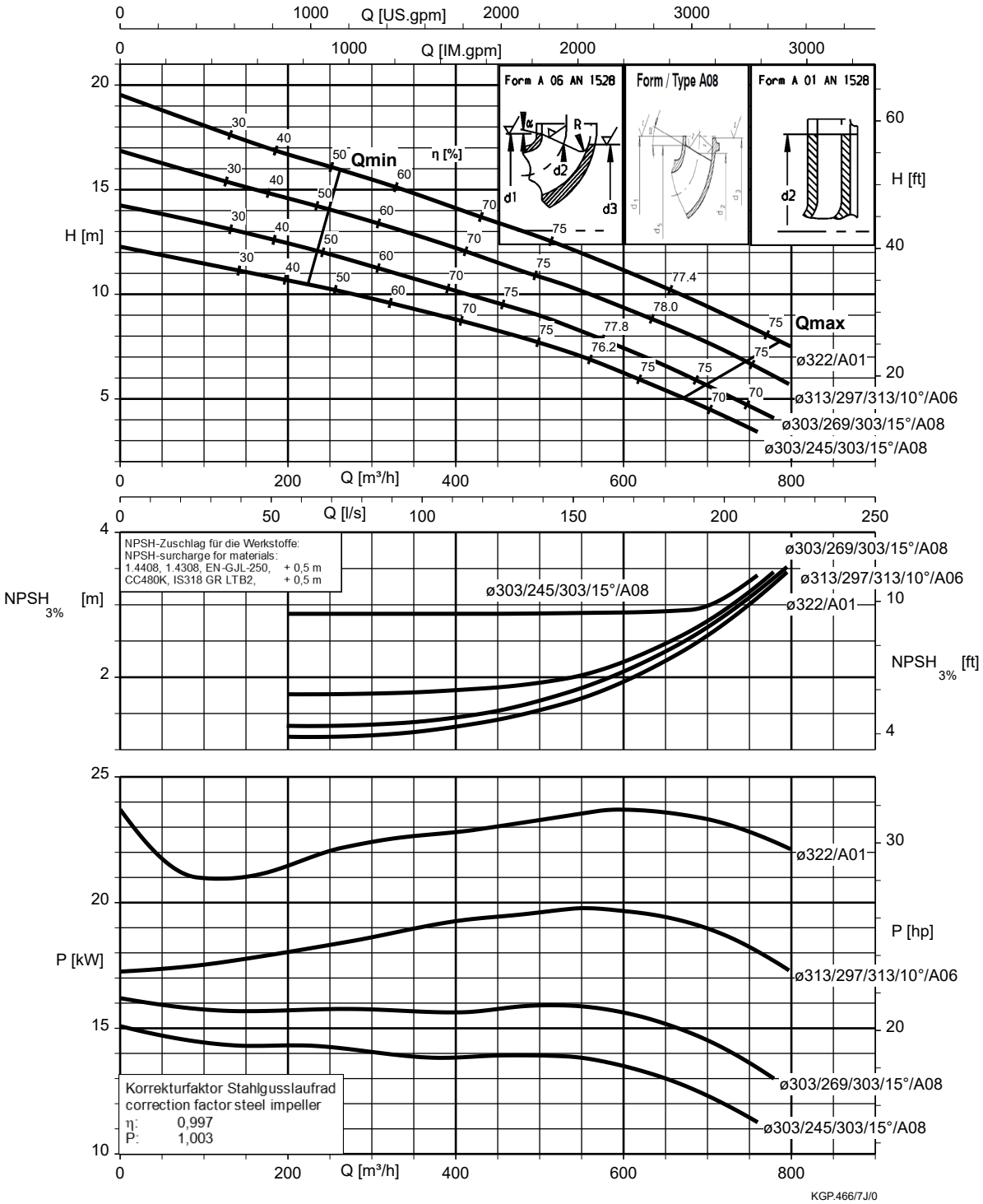
1311.46/11-FR

Etanorm 300-250-295, n = 1160 min^{-1}

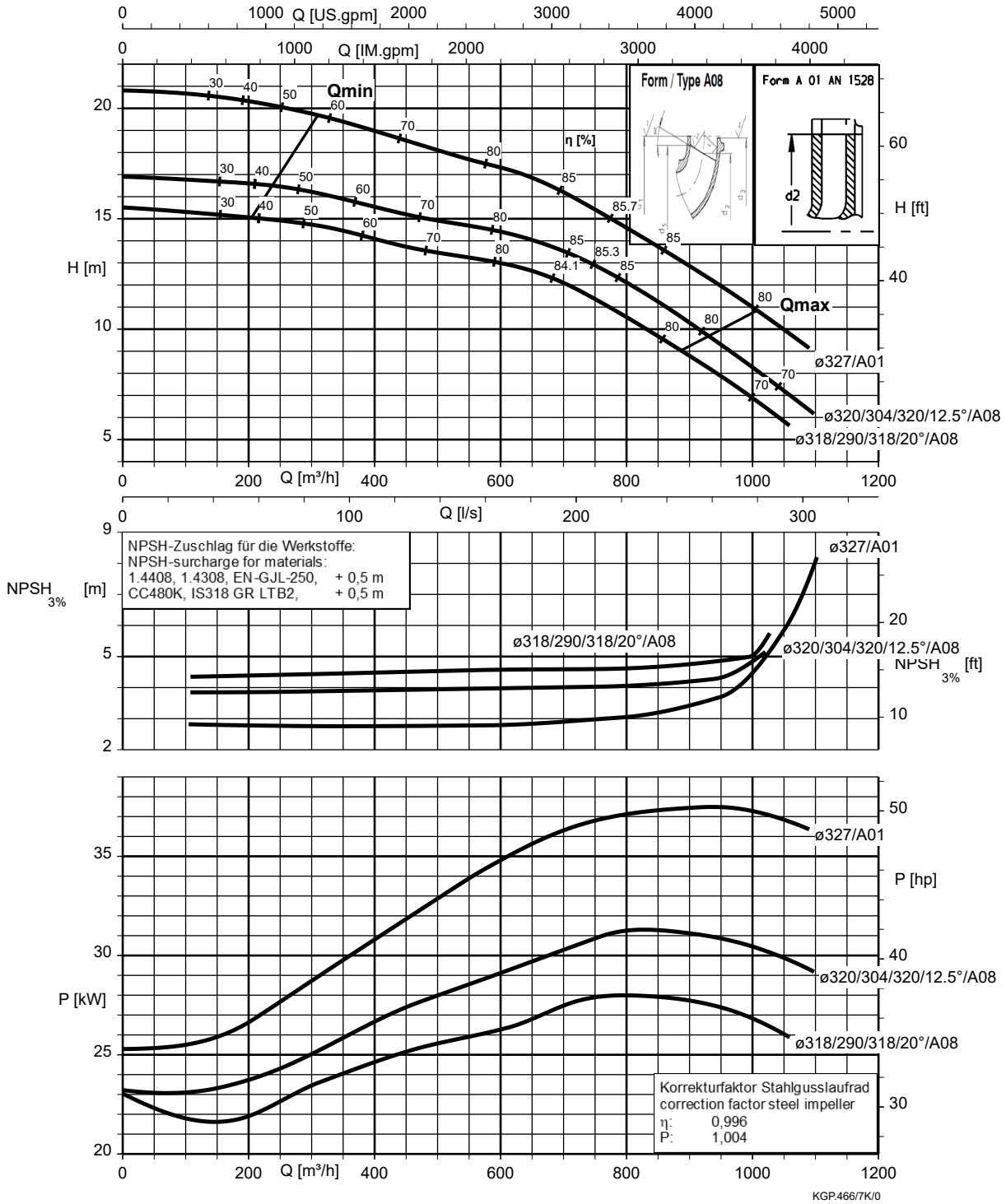


1311.46/11-FR

Etanorm 300-250-295.1 , n = 1160 min^{-1}

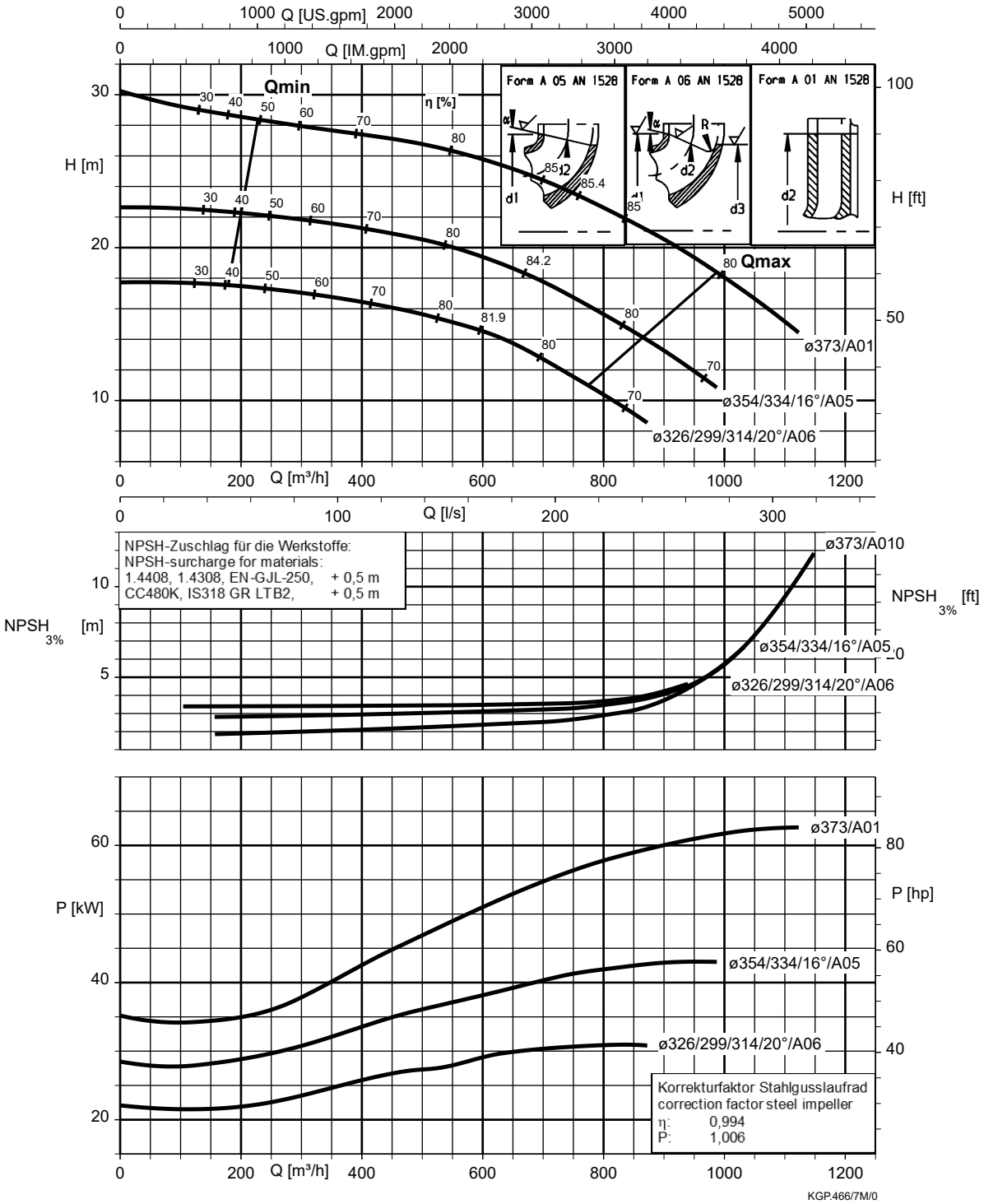


Etanorm 300-250-320 , n = 1160 min^{-1}

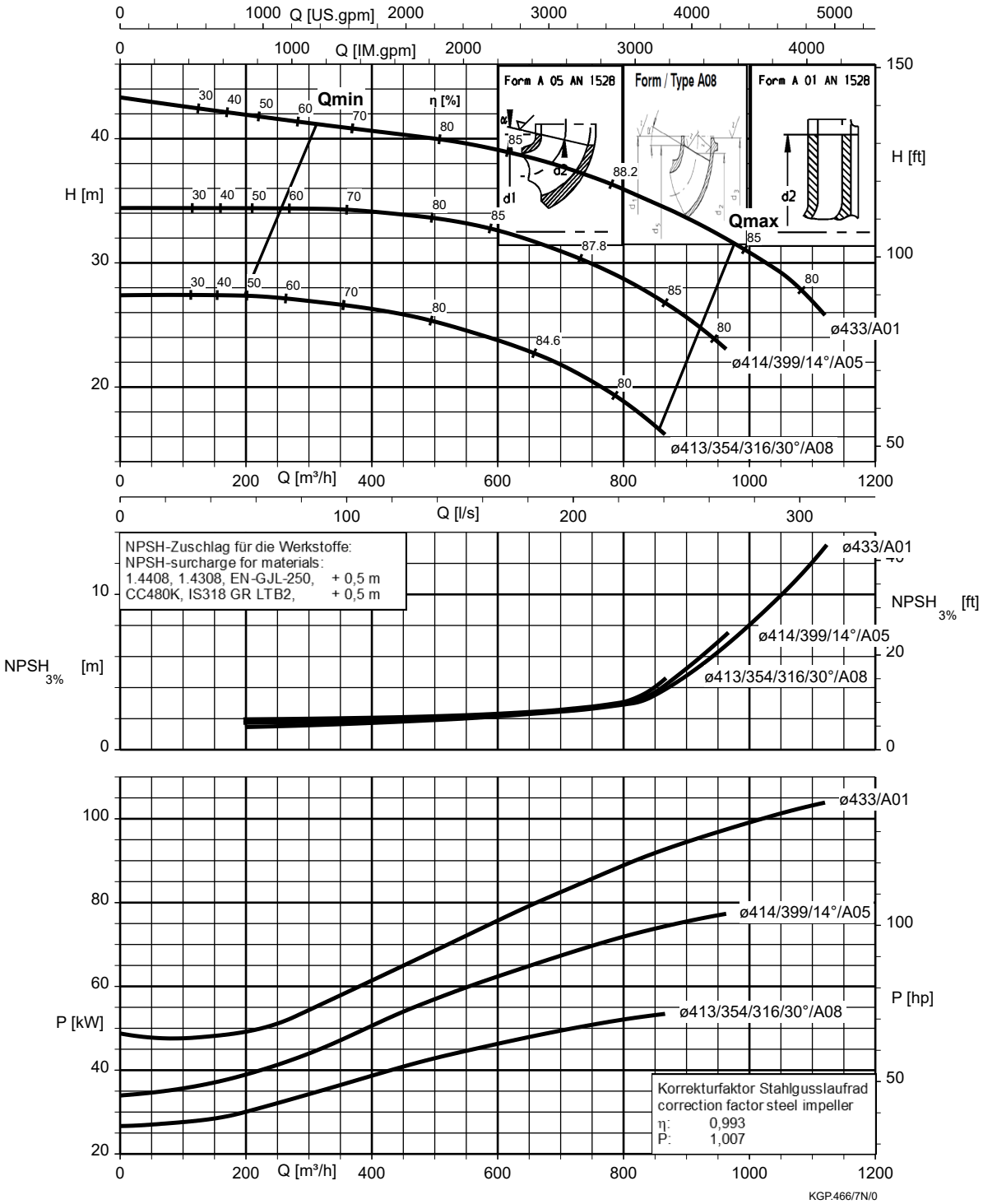


1311.46/11-FR

Etanorm 300-250-375, n = 1160 min^{-1}

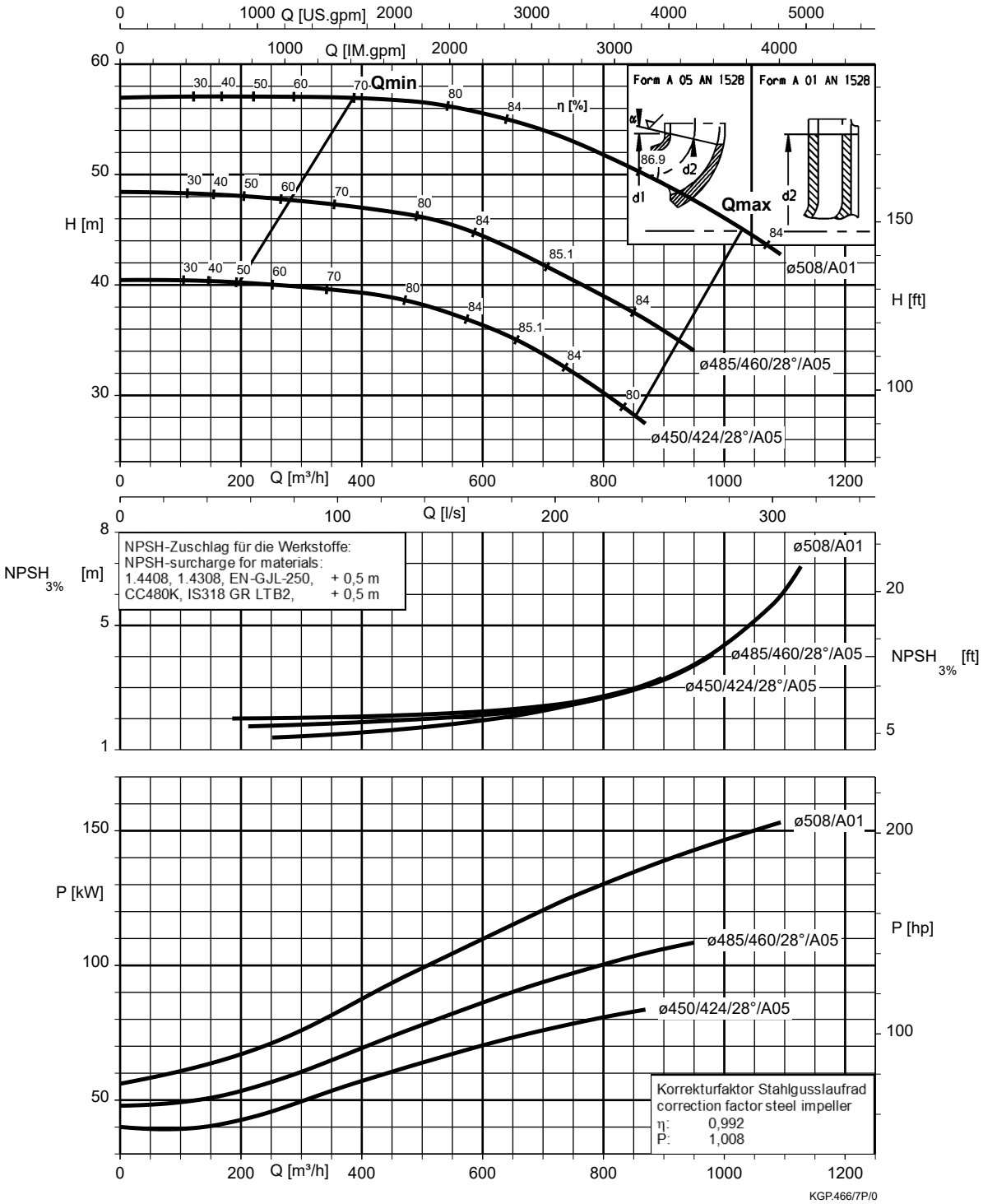


Etanorm 300-250-435, n = 1160 min^{-1}



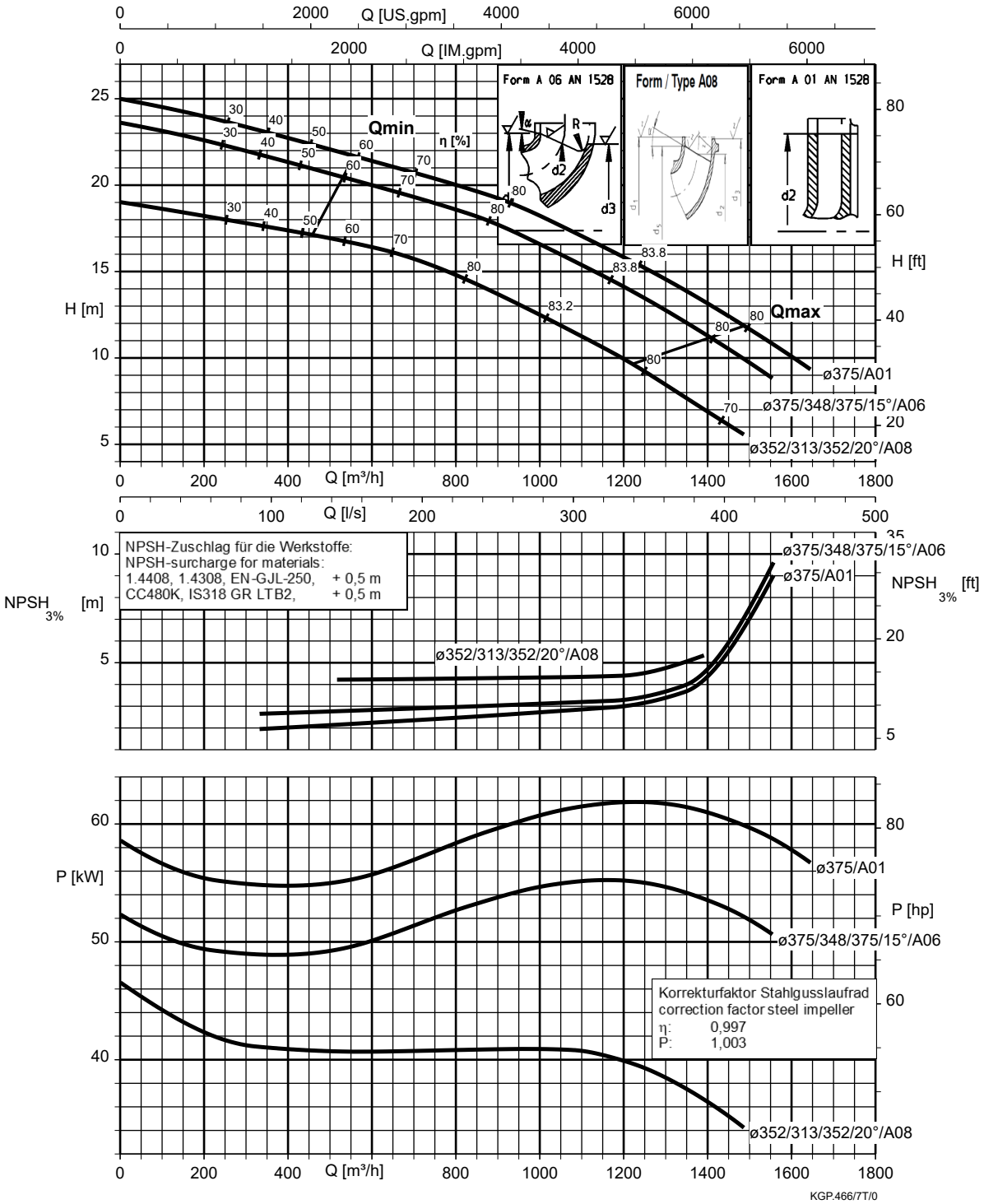
1311.46/11-FR

Etanorm 300-250-510, n = 1160 min^{-1}



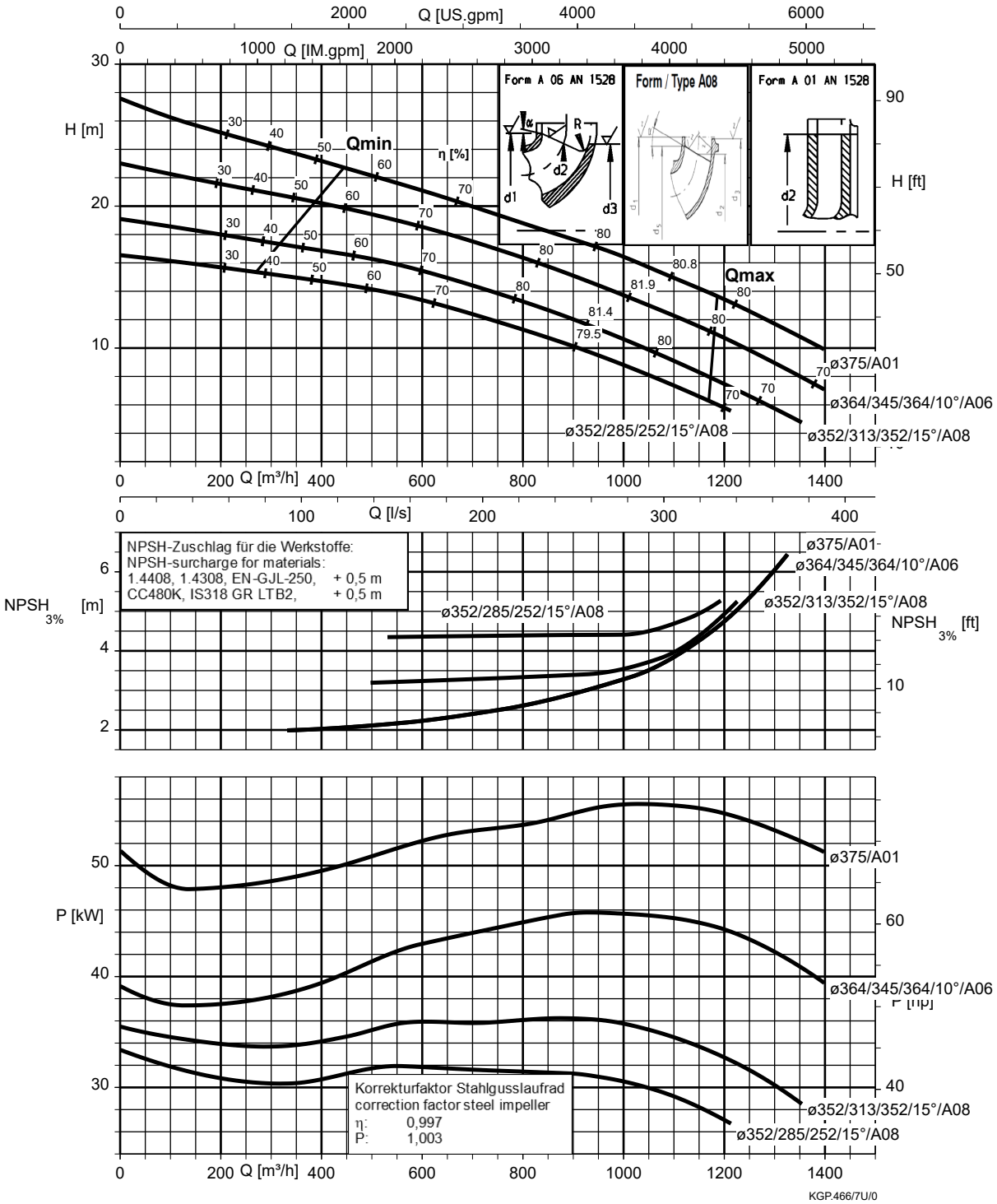
1311.46/11-FR

Etanorm 350-300-350, n = 1160 min^{-1}

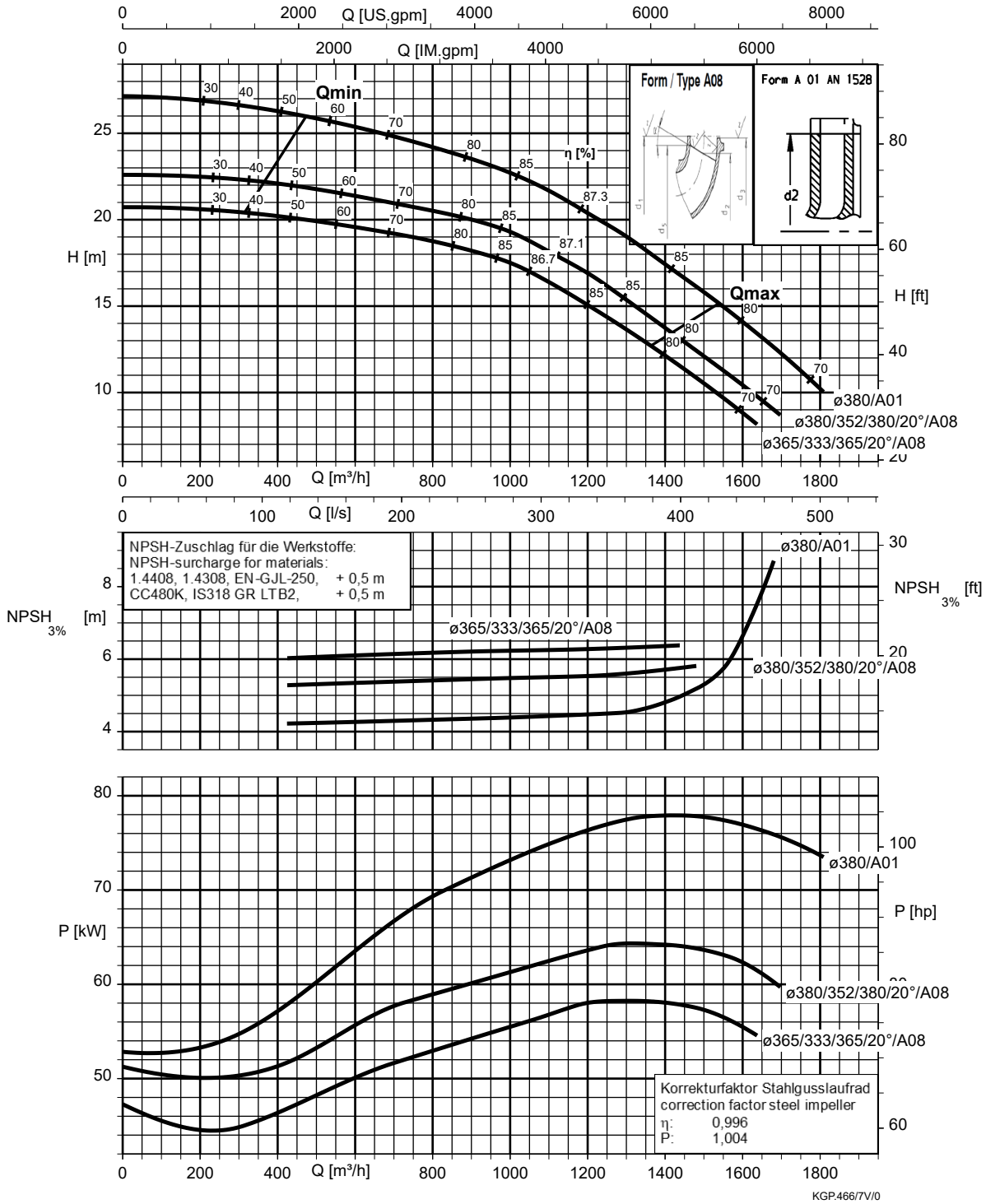


1311.46/11-FR

Etanorm 350-300-350.1 , n = 1160 min^{-1}

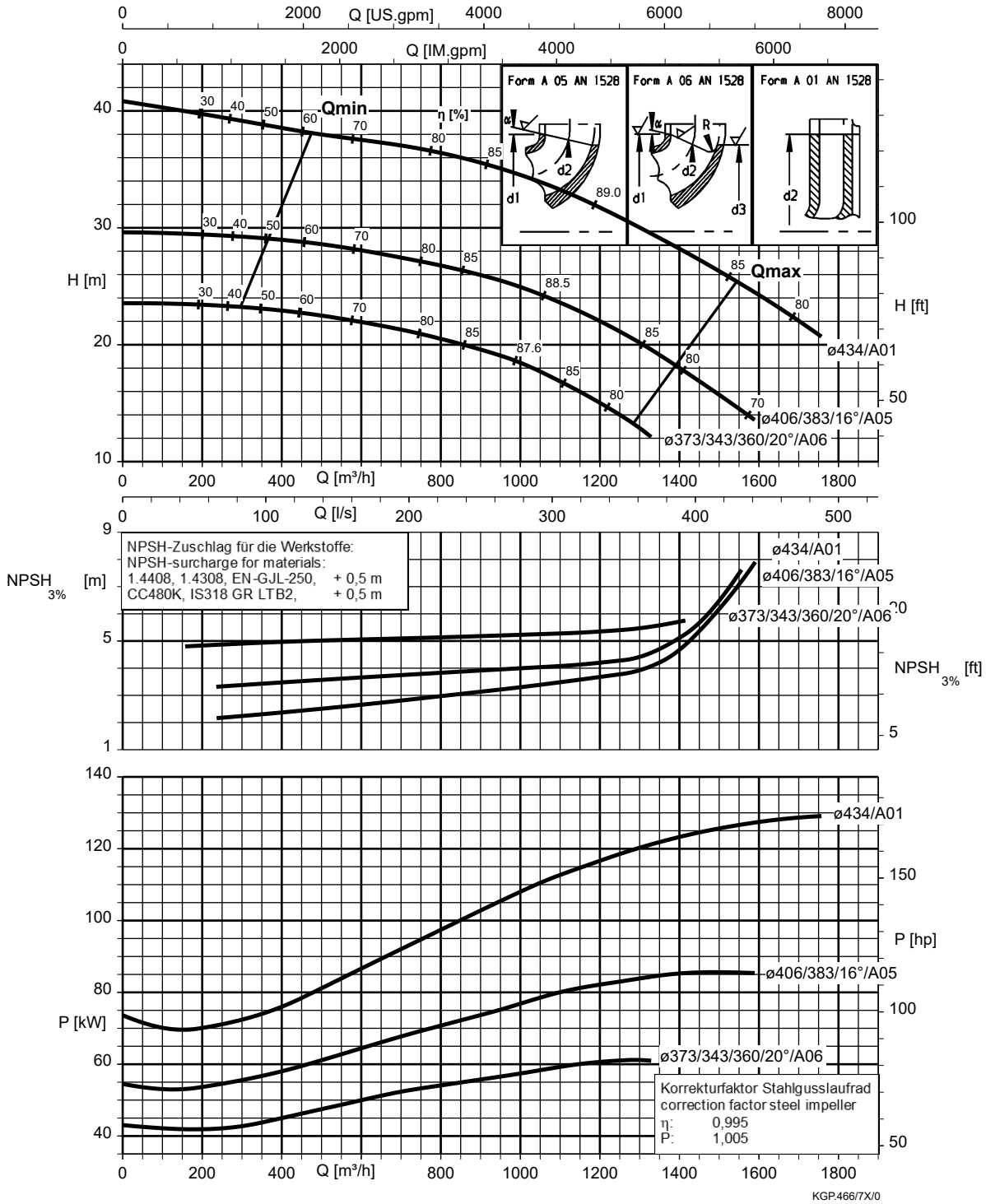


Etanorm 350-300-375, n = 1160 min^{-1}

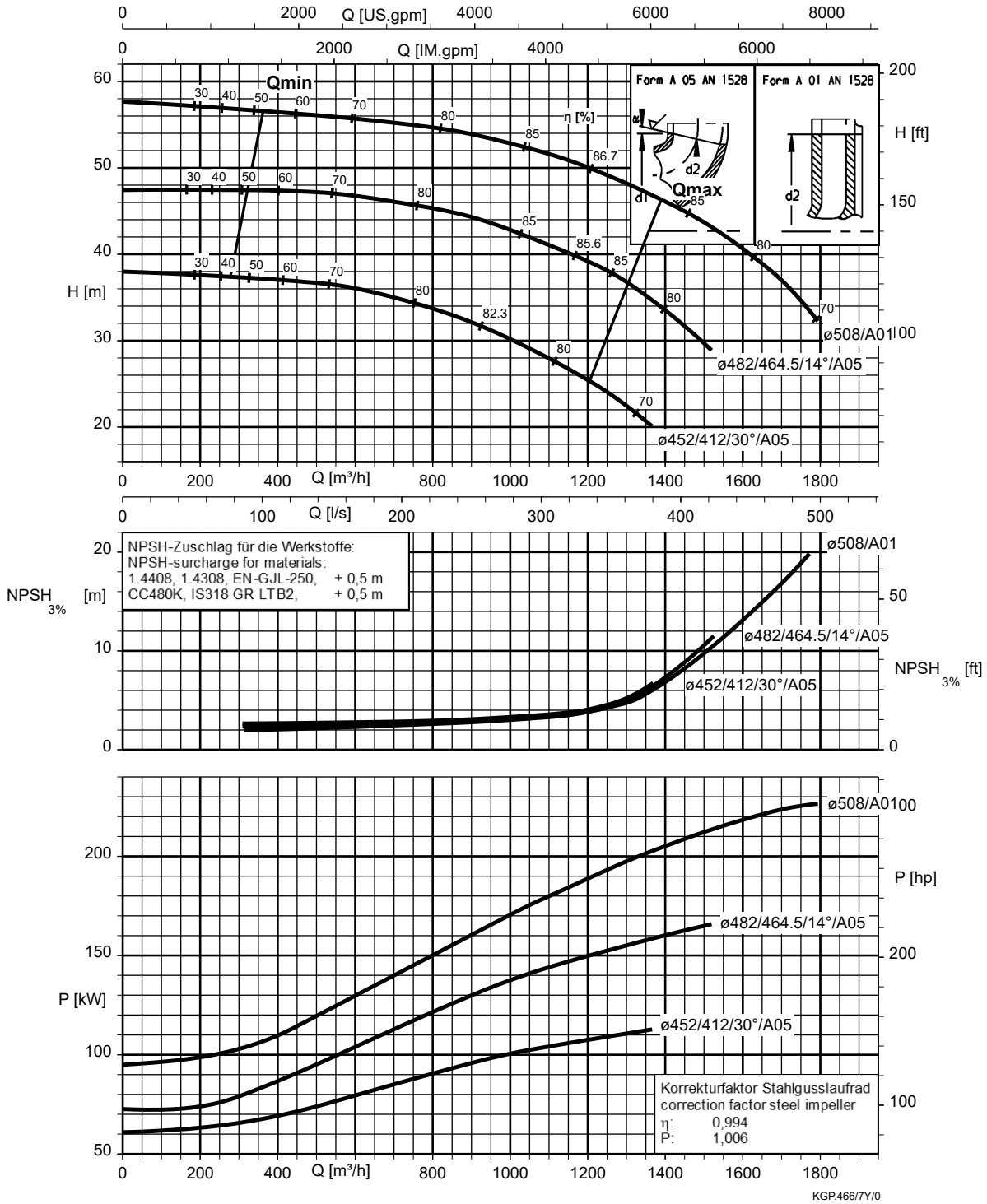


1311.46/11-FR

Etanorm 350-300-435 , n = 1160 min^{-1}



Etanorm 350-300-510 , n = 1160 min^{-1}



1311.46/11-FR

Etanorm-RSY 125-500.2, n = 1160 t/min

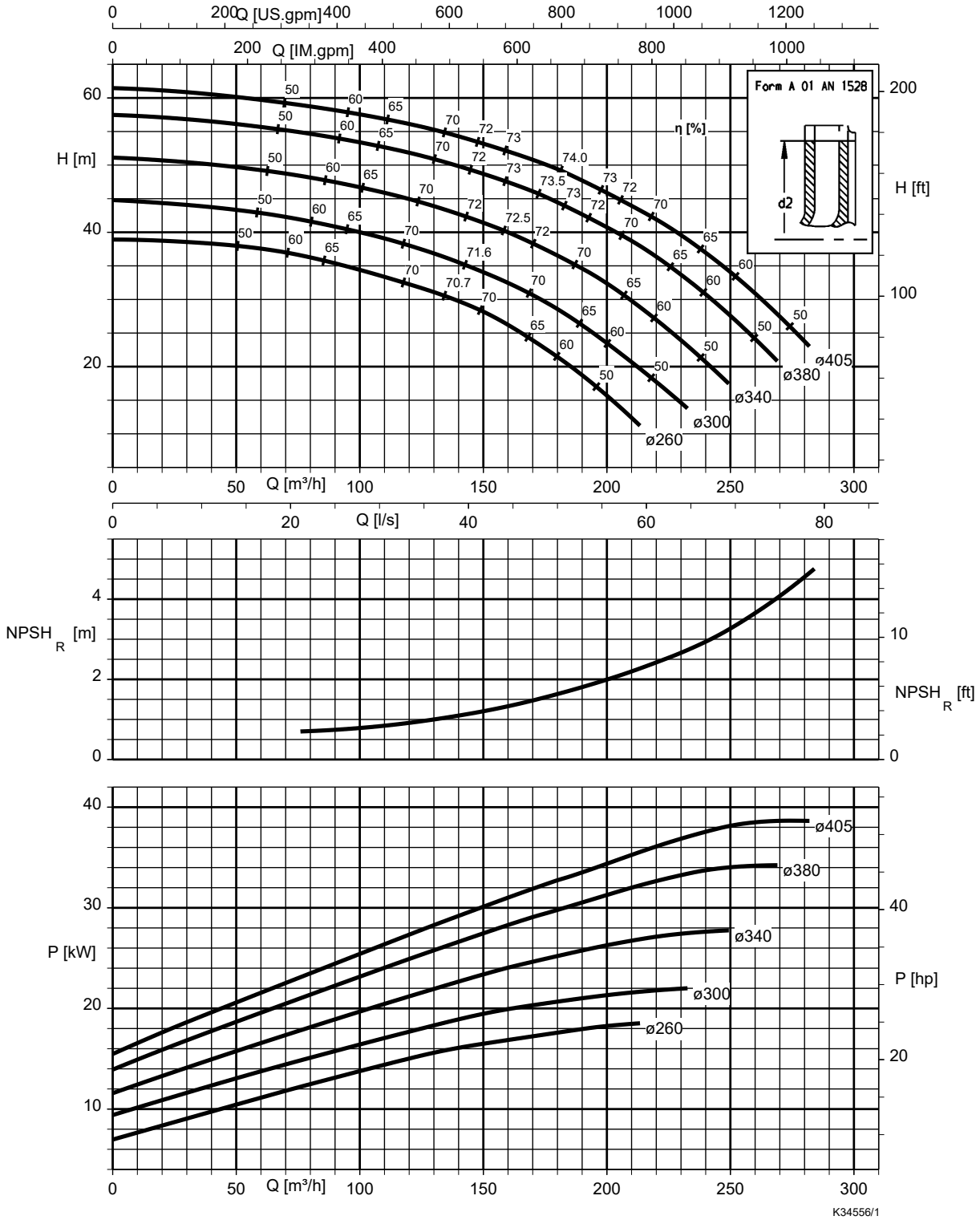


Tableau 13: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	0,5	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	0,5	
1.4408	0,5	

Etanorm-RSY 150-500.1, n = 1160 t/min

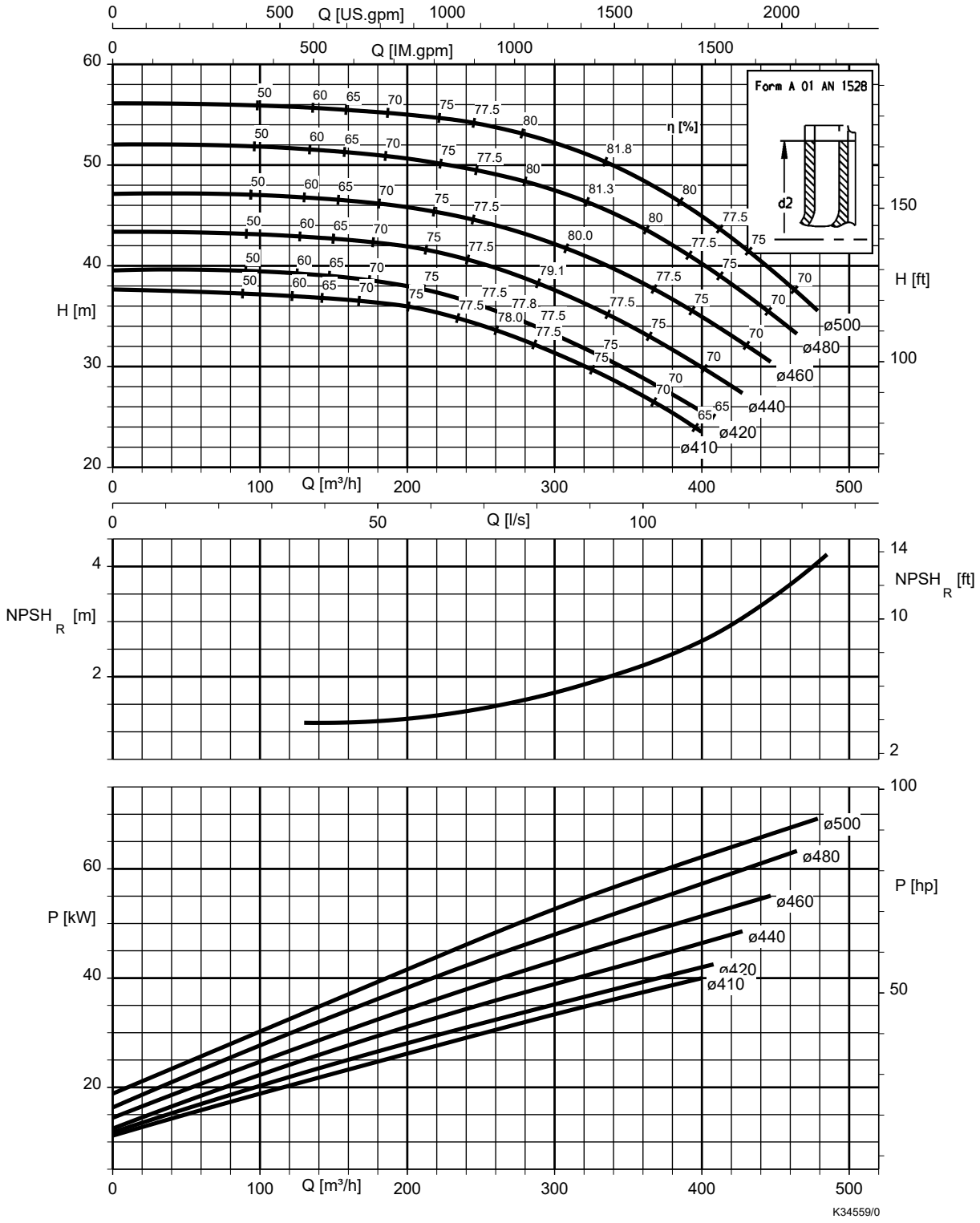


Tableau 14: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	0,5	$NPSH_{installation} \geq NPSH + \text{valeur de correction } S$
CC480K-GS	0,5	
1.4408	0,5	

1311.46/11-FR

Etanorm-RSY 200-330, n = 1160 t/min

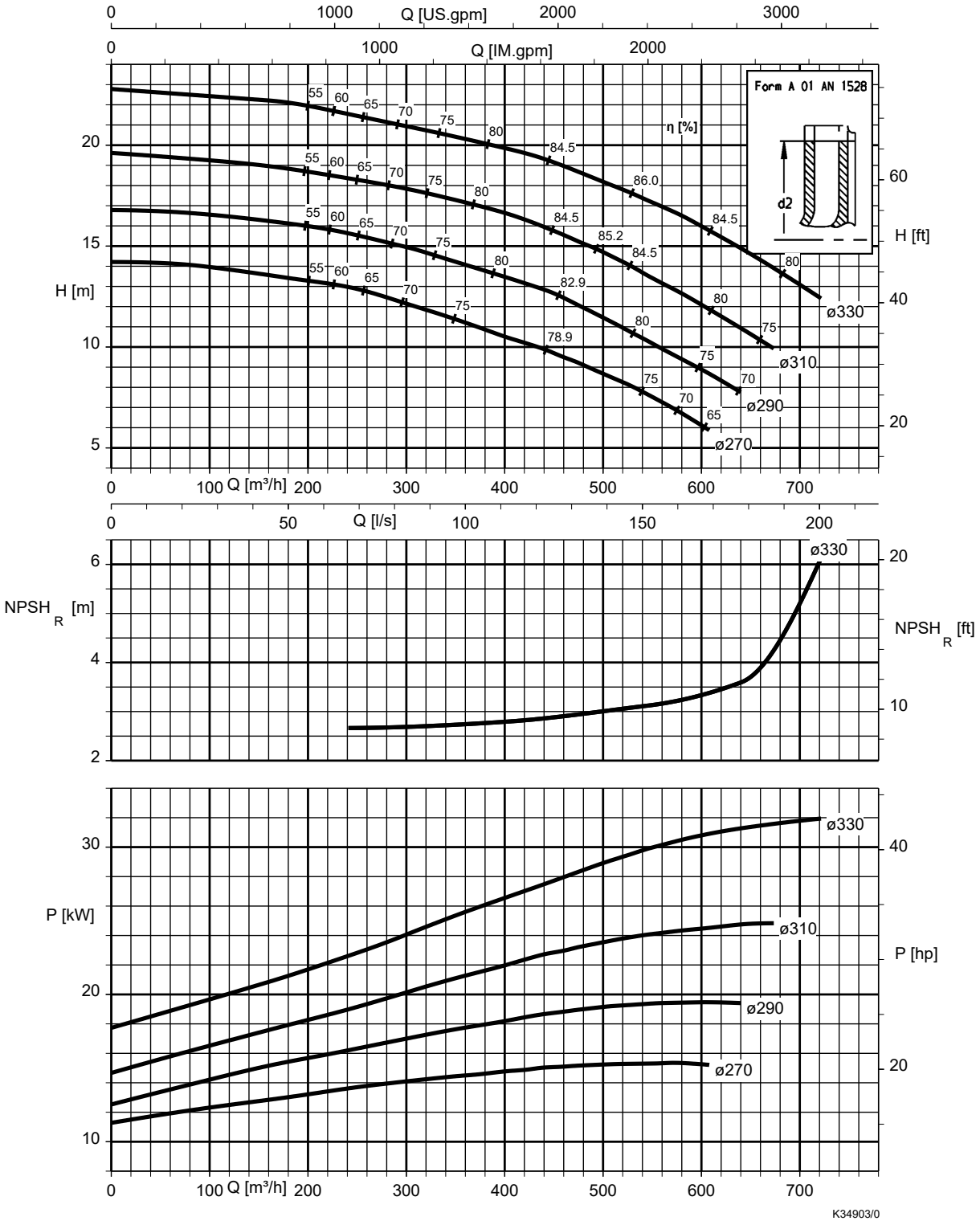


Tableau 15: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	0,5	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	0,5	
1.4408	0,5	

1311.46/11-FR

Etanorm-RSY 200-400, n = 1160 t/min

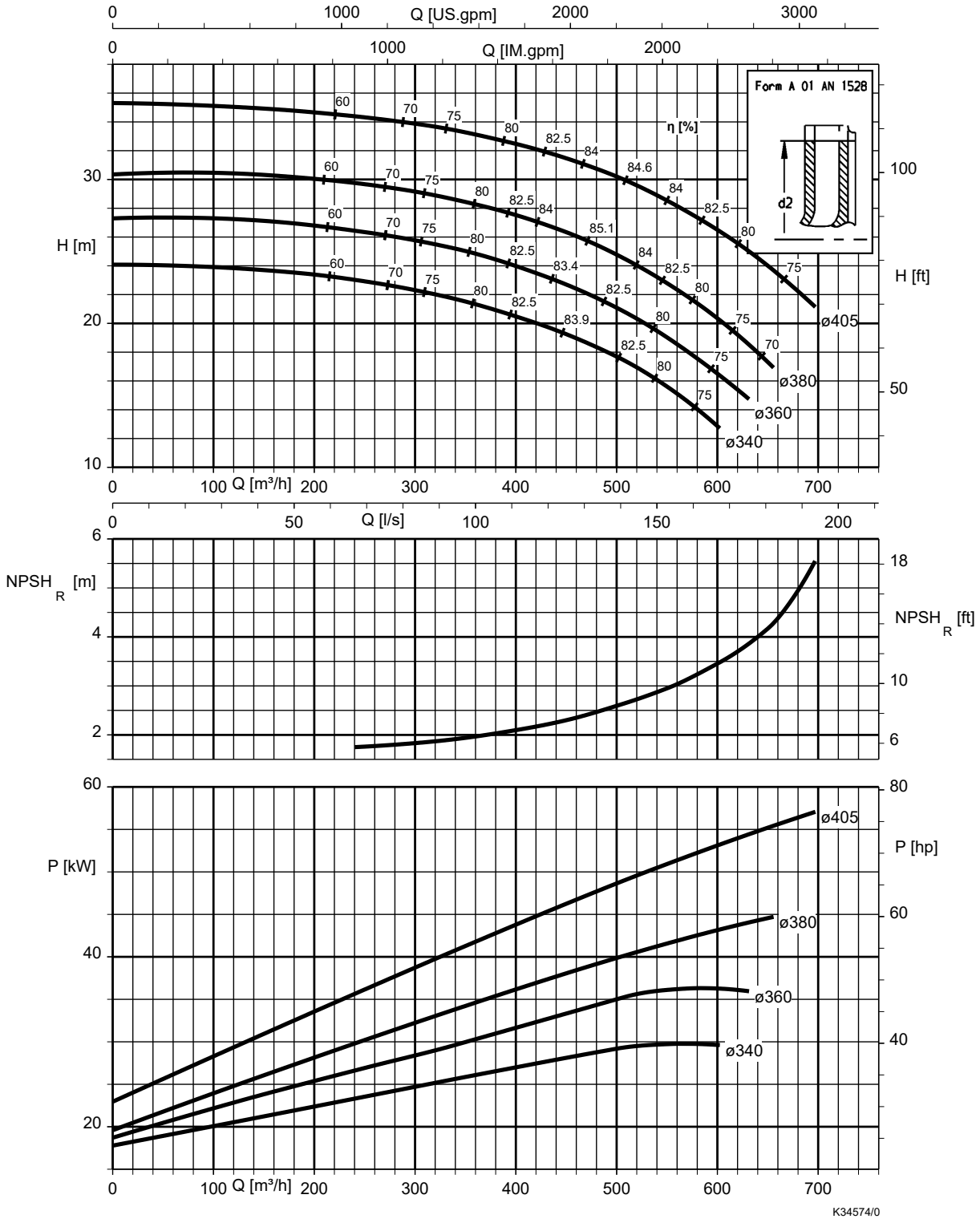


Tableau 16: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	0,5	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	0,5	
1.4408	0,5	

1311.46/11-FR

Etanorm-RSY 200-500, n = 1160 t/min

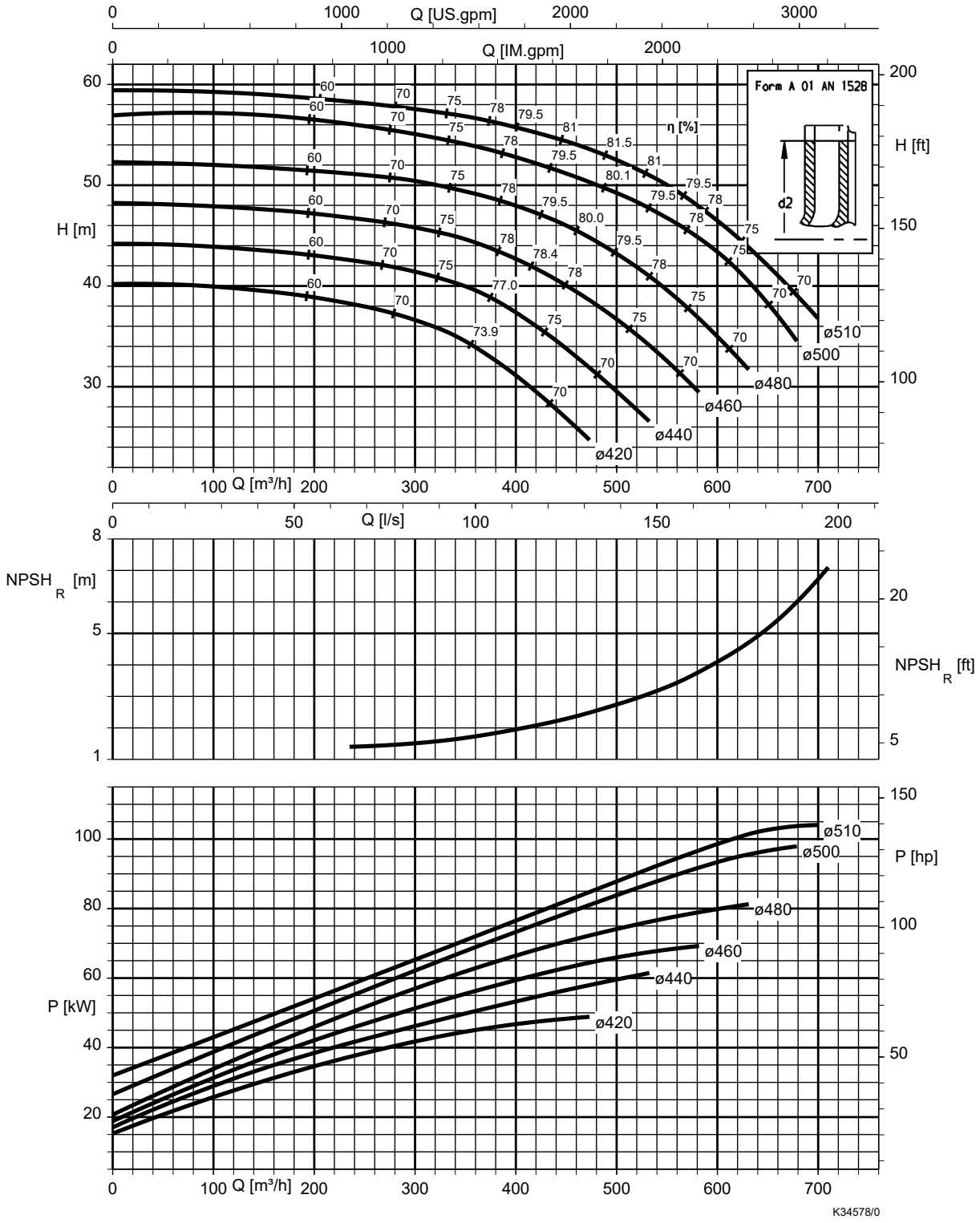


Tableau 17: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	0,5	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	0,5	
1.4408	0,5	

1311.46/11-FR

Etanorm-RSY 250-330, n = 1160 t/min

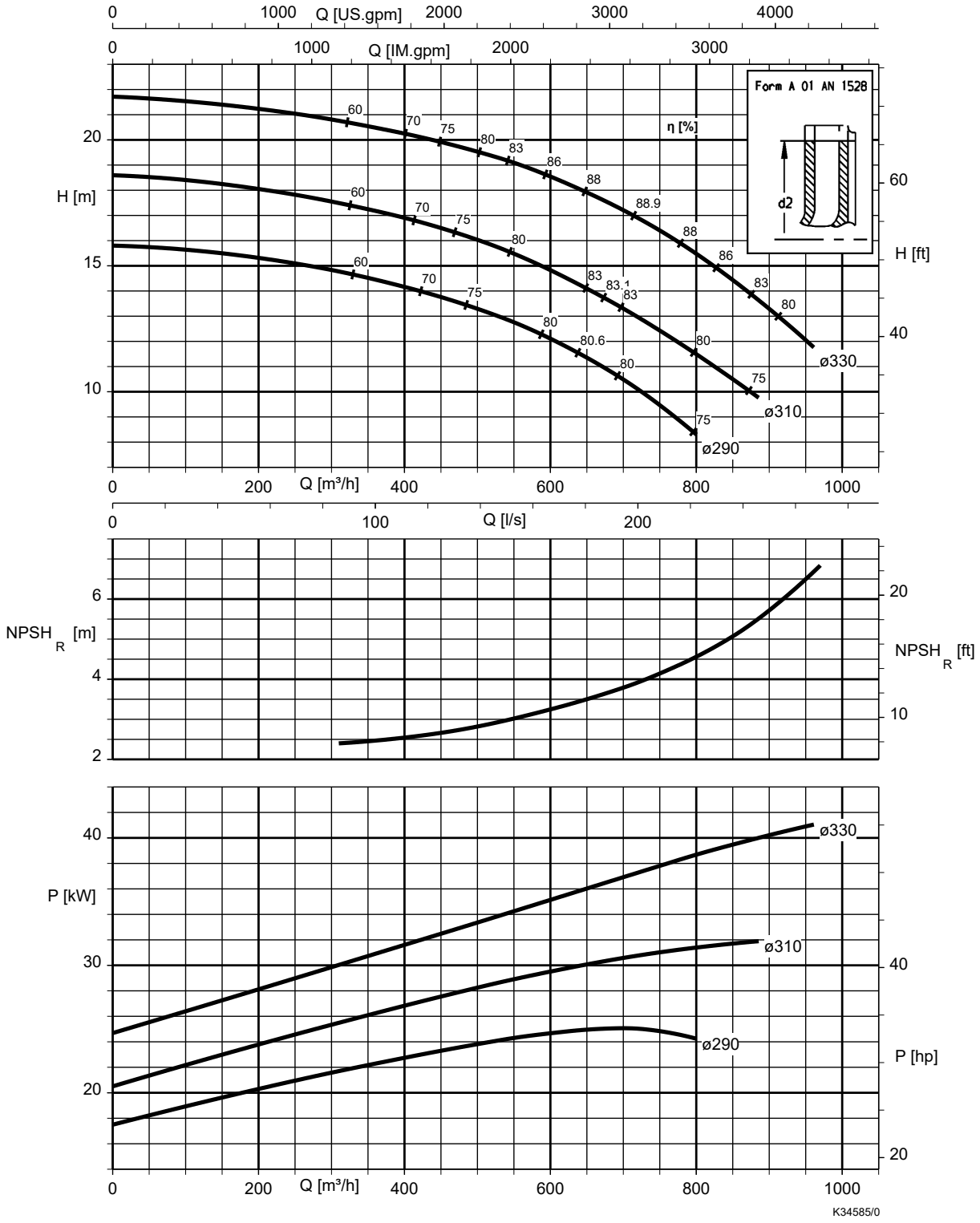


Tableau 18: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	1,5	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	0,5	
1.4408	0,5	

1311.46/11-FR

Etanorm-RSY 250-400, n = 1160 t/min

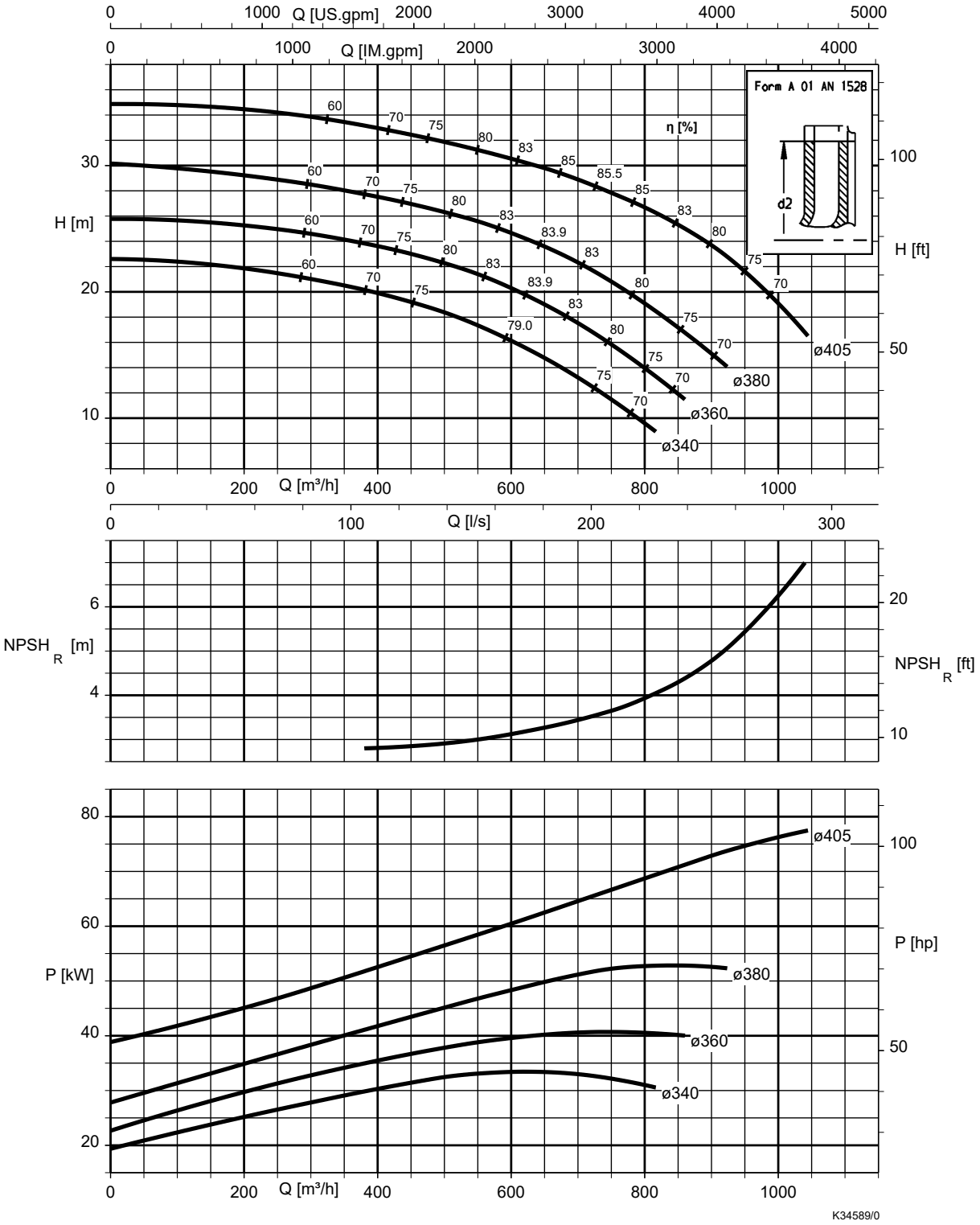


Tableau 19: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	1,0	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	0,5	
1.4408	0,5	

Etanorm-RSY 250-500, n = 1160 t/min

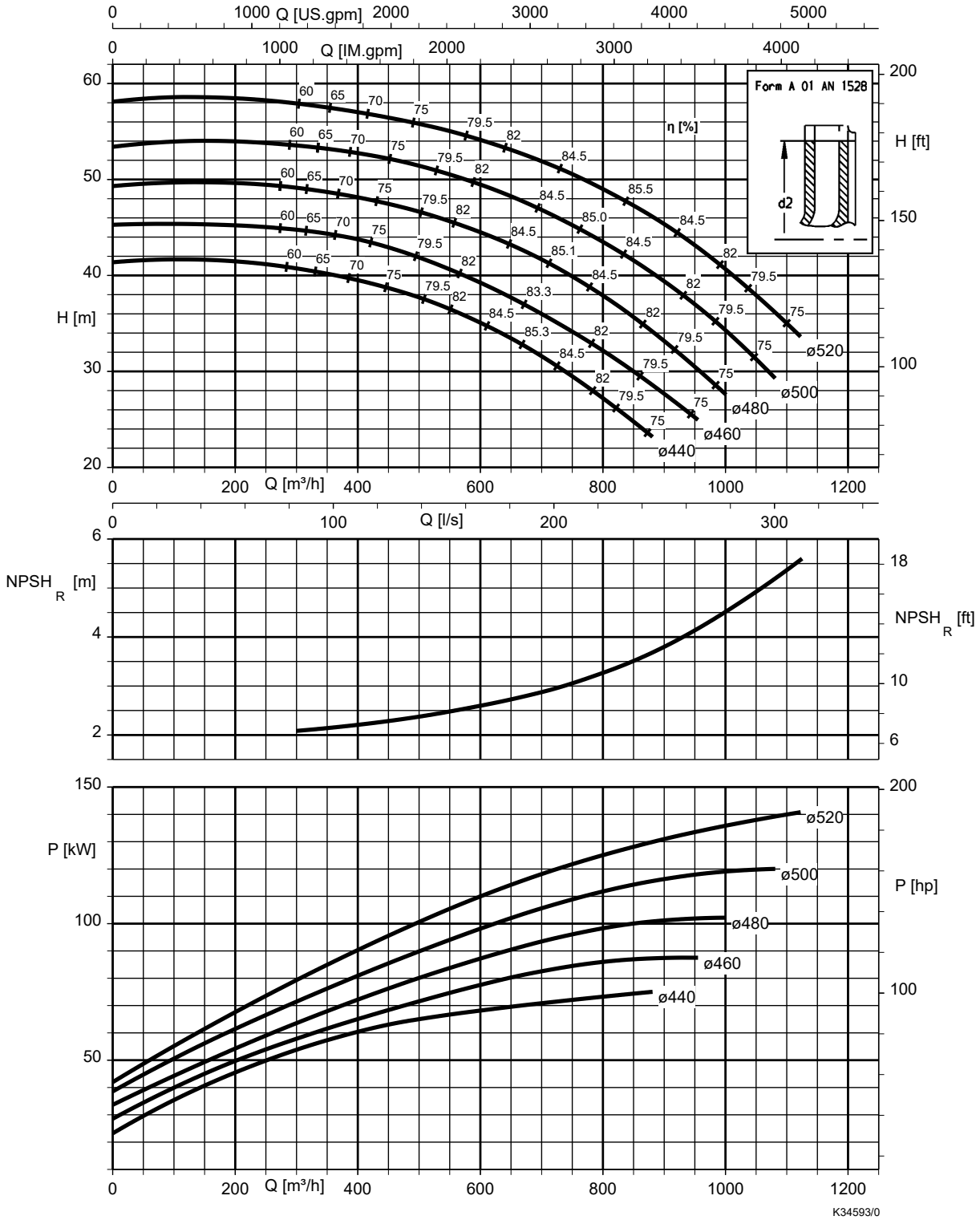


Tableau 20: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	1,0	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	0,5	
1.4408	0,5	

1311.46/11-FR

Etanorm-RSY 300-340, n = 1160 t/min

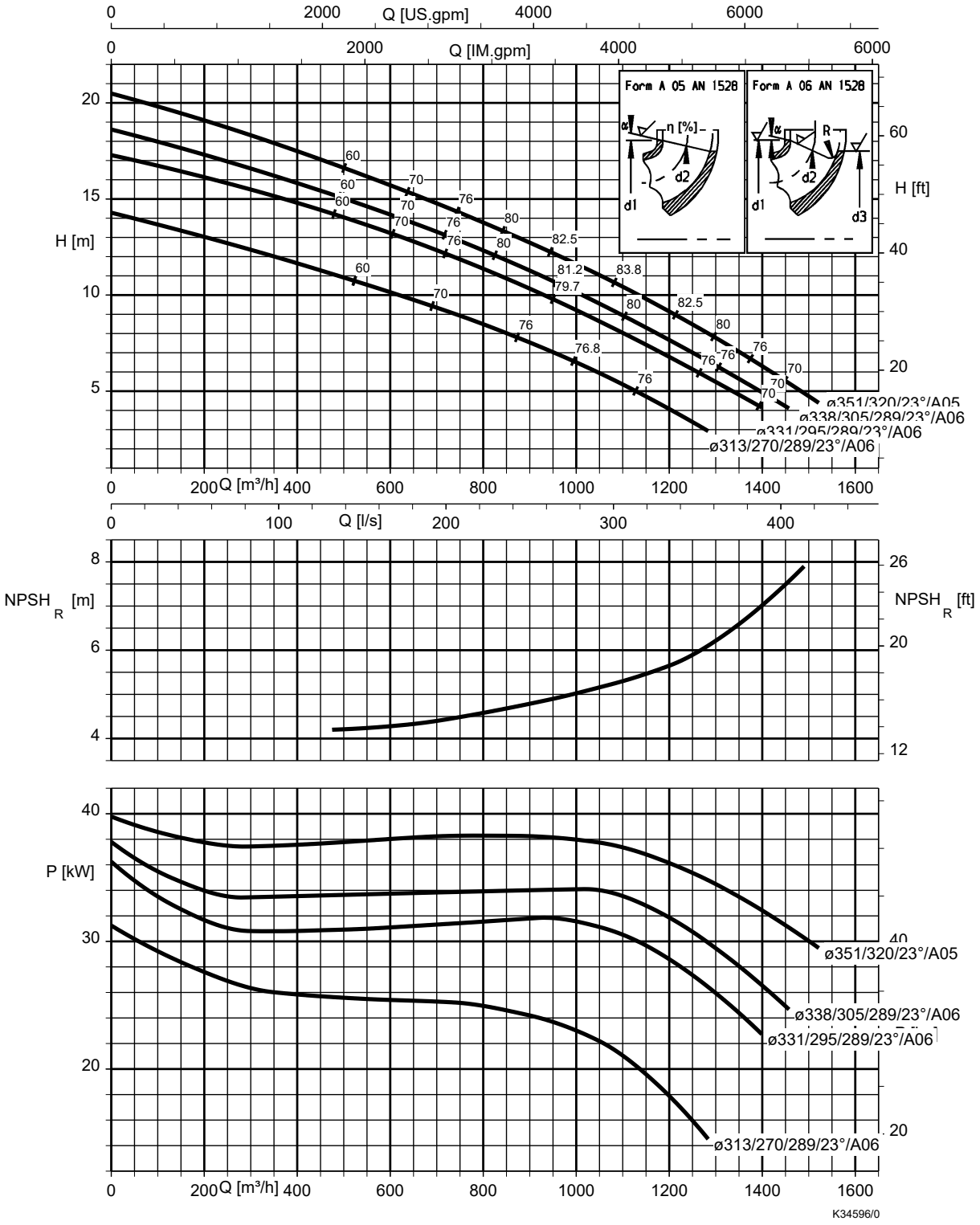


Tableau 21: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	3,0	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	1,5	
1.4408	0,5	

Etanorm-RSY 300-360, n = 1160 t/min

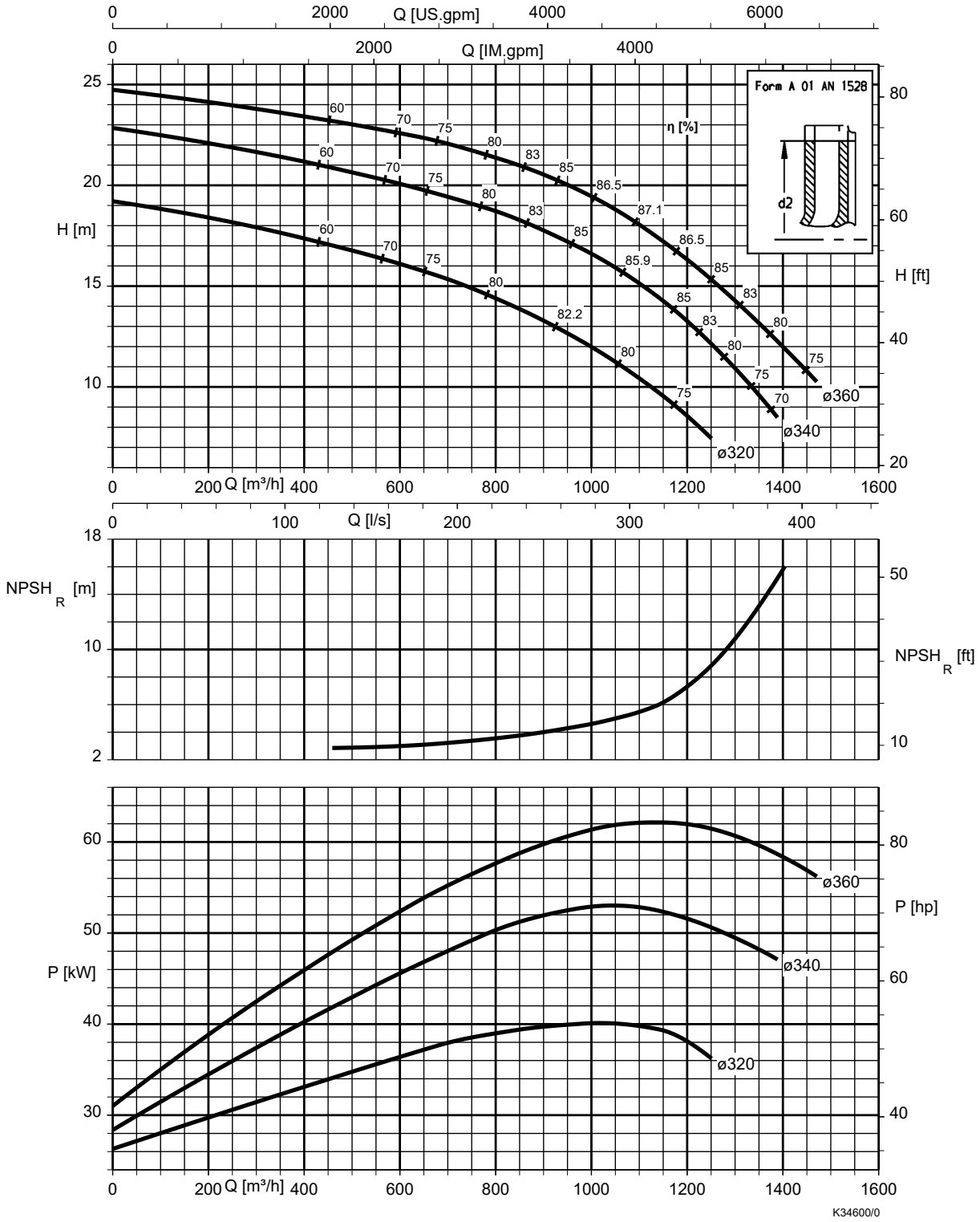


Tableau 22: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	1,8	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	1,0	
1.4408	0,5	

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Etanorm-RSY 300-500, n = 1160 t/min

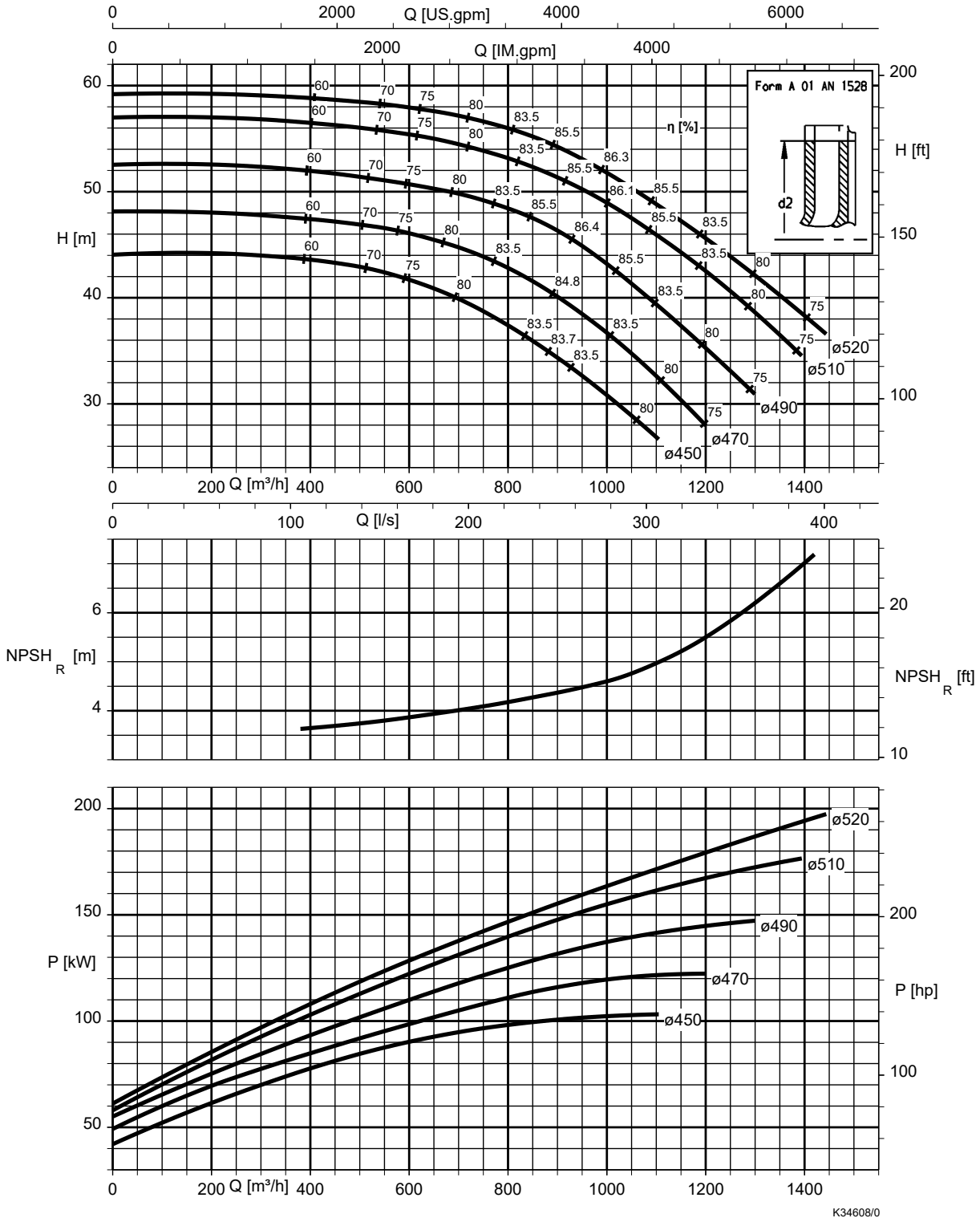

Tableau 23: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	1,5	$NPSH_{installation} \geq$ NPSH + valeur de correction **S**
CC480K-GS	0,5	
1.4408	0,5	

17/06/2021

KSB SE & Co. KGaA
Johann-Klein-Straße 9 • 67227 Frankenthal (Germany)
Tel. +49 6233 86-0
www.ksb.com

KSB Shanghai Pump Co., Ltd
1400 Jiangchuan Rd.
200245, Minhang, Shanghai, China
Tel. +86 21 64302888
www.ksb.com.cn

KSB Pumps and Valves (Pty.) Ltd
Cor. North Reef & Activia Roads, Activia Park: 1401 Germiston (Johannesburg)
Republic of South Africa
Tel. +27 (11) 876 5600
Fax +27 (11) 822 2013
E-Mail: sales@ksbpumps.co.za

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