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

50 Hz

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

Courbier

Copyright / Mentions légales

Courbier 50 Hz

Sommaire

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 (Unités SI)
Les hauteurs manométriques et les puissances indiquées sont valables pour tous les fluides pompés dont la densité ρ = 1,0 kg/dm^3 et la viscosité cinématique v est égale ou inférieure à 20 mm^2/s. Si la densité ≠ 1,0, multiplier la puissance indiquée par ρ. Pour les viscosités >20 mm^2/s, calculer les données correspondantes à l'eau froide et déterminer 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.

1311.45/12-FR

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	2900	1450	960
040-025-160	✘	✘	-	✘	✘	-	(⇨ page 22)	(⇨ page 56)	(⇨ page 130)
040-025-200	✘	✘	-	✘	✘	-	(⇨ page 23)	(⇨ page 57)	(⇨ page 131)
050-032-125.1	✘	✘	✘	✘	✘	-	(⇨ page 24)	(⇨ page 58)	(⇨ page 132)
050-032-160.1	✘	✘	✘	✘	✘	-	(⇨ page 25)	(⇨ page 59)	(⇨ page 133)
050-032-200.1	✘	✘	✘	✘	✘	-	(⇨ page 26)	(⇨ page 60)	(⇨ page 134)
050-032-250.1	✘	-	✘	✘	-	-	(⇨ page 27)	(⇨ page 61)	(⇨ page 135)
050-032-125	✘	-	✘	✘	-	-	(⇨ page 28)	(⇨ page 62)	(⇨ page 136)
050-032-160	✘	✘	✘	✘	✘	-	(⇨ page 29)	(⇨ page 63)	(⇨ page 137)
050-032-200	✘	✘	✘	✘	✘	-	(⇨ page 30)	(⇨ page 64)	(⇨ page 138)
050-032-250	✘	✘	✘	✘	-	-	(⇨ page 31)	(⇨ page 65)	(⇨ page 139)
065-040-125	✘	-	✘	✘	-	-	(⇨ page 32)	(⇨ page 66)	(⇨ page 140)
065-040-160	✘	✘	✘	✘	✘	-	(⇨ page 33)	(⇨ page 67)	(⇨ page 141)
065-040-200	✘	✘	✘	✘	✘	-	(⇨ page 34)	(⇨ page 68)	(⇨ page 142)
065-040-250	✘	✘	✘	✘	-	-	(⇨ page 35)	(⇨ page 69)	(⇨ page 143)
065-040-315	✘	✘	✘	✘	-	-	(⇨ page 36)	(⇨ page 70)	(⇨ page 144)
065-050-125	✘	-	✘	✘	-	-	(⇨ page 37)	(⇨ page 71)	(⇨ page 145)
065-050-160	✘	✘	✘	✘	✘	-	(⇨ page 38)	(⇨ page 72)	(⇨ page 146)
065-050-200	✘	✘	✘	✘	✘	-	(⇨ page 39)	(⇨ page 73)	(⇨ page 147)
065-050-250	✘	✘	✘	✘	-	-	(⇨ page 40)	(⇨ page 74)	(⇨ page 148)
065-050-315	✘	✘	✘	✘	-	-	(⇨ page 41)	(⇨ page 75)	(⇨ page 149)
080-065-125	✘	-	✘	✘	-	-	(⇨ page 42)	(⇨ page 76)	(⇨ page 150)
080-065-160	✘	✘	✘	✘	✘	-	(⇨ page 43)	(⇨ page 77)	(⇨ page 151)
080-065-200	✘	✘	✘	✘	✘	-	(⇨ page 44)	(⇨ page 78)	(⇨ page 152)
080-065-250	✘	✘	✘	✘	-	-	(⇨ page 45)	(⇨ page 79)	(⇨ page 153)
080-065-315	✘	✘	✘	✘	-	-	(⇨ page 46)	(⇨ page 80)	(⇨ page 154)
100-080-160	✘	✘	✘	✘	✘	-	(⇨ page 47)	(⇨ page 81)	(⇨ page 155)
100-080-200	✘	✘	✘	✘	-	-	(⇨ page 48)	(⇨ page 82)	(⇨ page 156)
100-080-250	✘	✘	✘	✘	-	-	(⇨ page 49)	(⇨ page 83)	(⇨ page 157)
100-080-315	✘	✘	✘	✘	-	-	(⇨ page 50)	(⇨ page 84)	(⇨ page 158)
100-080-400	✘	-	✘	✘	-	-	-	(⇨ page 85)	(⇨ page 159)
125-100-160	✘	✘	✘	✘	-	-	(⇨ page 51)	(⇨ page 86)	(⇨ page 160)
125-100-200	✘	✘	✘	✘	-	-	(⇨ page 52)	(⇨ page 87)	(⇨ page 161)
125-100-250	✘	✘	✘	✘	-	-	(⇨ page 53)	(⇨ page 88)	(⇨ page 162)
125-100-315	✘	✘	✘	✘	-	-	(⇨ page 54)	(⇨ page 89)	(⇨ page 163)
125-100-400	✘	-	✘	✘	-	-	-	(⇨ page 90)	(⇨ page 164)
150-125-200	✘	✘	✘	✘	-	-	(⇨ page 55)	(⇨ page 91)	(⇨ page 165)
150-125-250	✘	✘	✘	✘	-	-	-	(⇨ page 92)	(⇨ page 166)
150-125-315	✘	✘	✘	✘	-	-	-	(⇨ page 93)	(⇨ page 167)
150-125-400	✘	✘	✘	✘	-	-	-	(⇨ page 94)	(⇨ page 168)
150-125-510	✘	-	-	-	-	-	-	(⇨ page 95)	(⇨ page 169)
200-150-200	✘	-	✘	✘	-	-	-	(⇨ page 96)	(⇨ page 170)
200-150-250	✘	-	✘	✘	-	-	-	(⇨ page 97)	(⇨ page 171)
200-150-315	✘	✘	✘	✘	-	-	-	(⇨ page 98)	(⇨ page 172)
200-150-400	✘	✘	✘	✘	-	-	-	(⇨ page 99)	(⇨ page 173)
200-150-510	✘	-	-	-	-	-	-	(⇨ page 100)	(⇨ page 174)
200-200-250	✘	-	-	-	-	-	-	(⇨ page 101)	(⇨ page 175)
250-200-275	✘	-	-	-	-	-	-	(⇨ page 102)	(⇨ page 176)
250-200-320	✘	-	-	-	-	-	-	(⇨ page 103)	(⇨ page 177)
250-200-375	✘	-	-	-	-	-	-	(⇨ page 104)	(⇨ page 178)
250-200-435	✘	-	-	-	-	-	-	(⇨ page 105)	(⇨ page 179)

1311.45/12-FR

Taille	Gamme						Vitesse de rotation [t/min]		
	Etanorm	Etanorm SYT	Etanorm V	Etabloc	Etabloc SYT	Etanorm-RSY	2900	1450	960
250-200-510	✘	-	-	-	-	-	-	(⇨ page 106)	(⇨ page 180)
300-250-295	✘	-	-	-	-	-	-	(⇨ page 107)	(⇨ page 181)
300-250-295.1	✘	-	-	-	-	-	-	(⇨ page 108)	(⇨ page 182)
300-250-320	✘	-	-	-	-	-	-	(⇨ page 109)	(⇨ page 183)
300-250-375	✘	-	-	-	-	-	-	(⇨ page 110)	(⇨ page 184)
300-250-435	✘	-	-	-	-	-	-	(⇨ page 111)	(⇨ page 185)
300-250-510	✘	-	-	-	-	-	-	(⇨ page 112)	(⇨ page 186)
350-300-350	✘	-	-	-	-	-	-	(⇨ page 113)	(⇨ page 187)
350-300-350.1	✘	-	-	-	-	-	-	(⇨ page 114)	(⇨ page 188)
350-300-375	✘	-	-	-	-	-	-	(⇨ page 115)	(⇨ page 189)
350-300-435	✘	-	-	-	-	-	-	(⇨ page 116)	(⇨ page 190)
350-300-510	✘	-	-	-	-	-	-	(⇨ page 117)	(⇨ page 191)

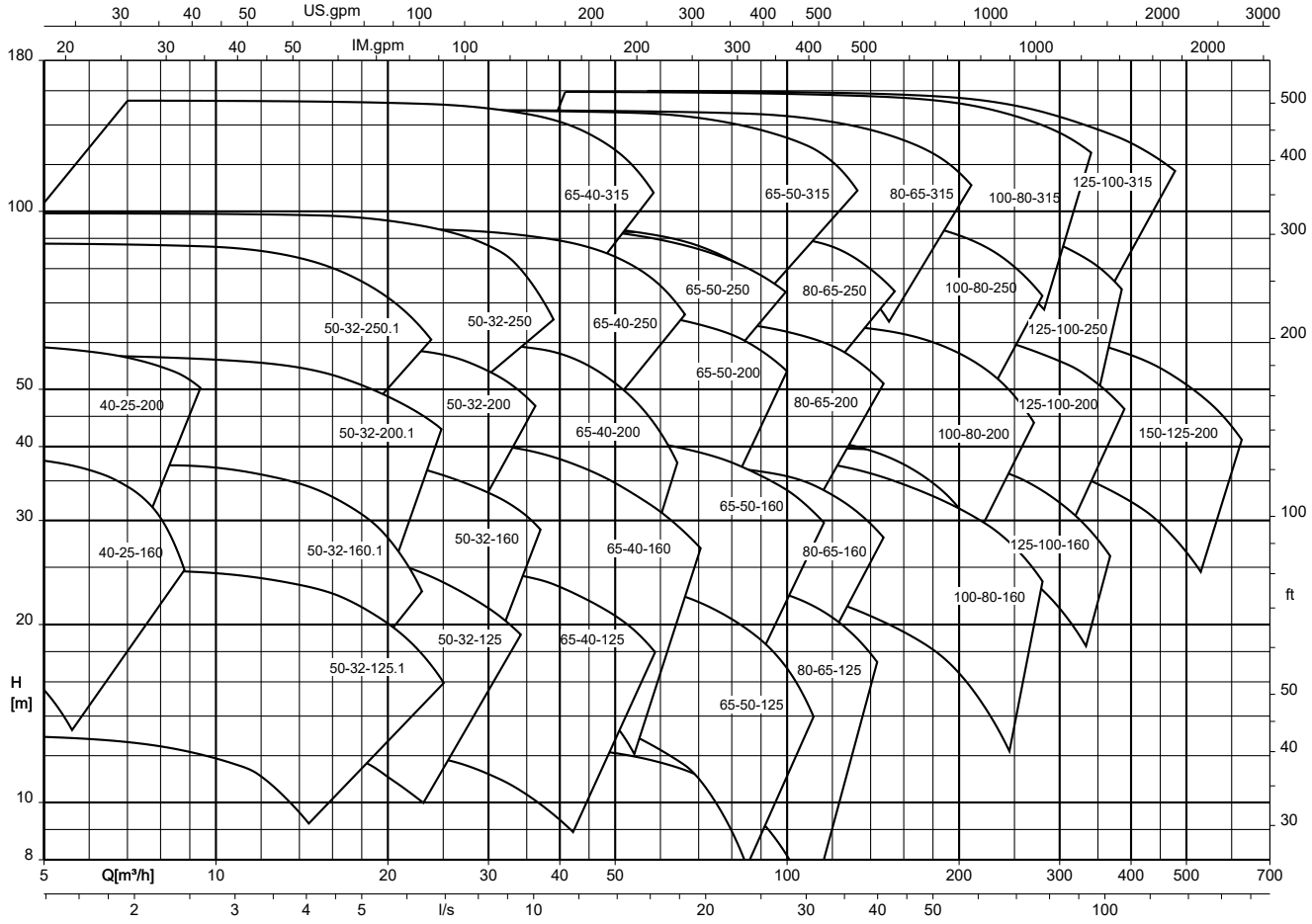
Tableau 2: Synoptique des tailles

Taille	Gamme						Vitesse de rotation [t/min]		
	Etanorm	Etanorm SYT	Etanorm V	Etabloc	Etabloc SYT	Etanorm-RSY	2900	1450	960
125-500.2	-	-	-	-	-	✘	-	(⇨ page 118)	(⇨ page 192)
150-500.1	-	-	-	-	-	✘	-	(⇨ page 119)	(⇨ page 193)
200-330	-	-	-	-	-	✘	-	(⇨ page 120)	(⇨ page 196)
200-400	-	-	-	-	-	✘	-	(⇨ page 121)	(⇨ page 197)
200-500	-	-	-	-	-	✘	-	(⇨ page 122)	(⇨ page 198)
250-300	-	-	-	-	-	✘	-	(⇨ page 123)	(⇨ page 199)
250-330	-	-	-	-	-	✘	-	(⇨ page 124)	(⇨ page 200)
250-400	-	-	-	-	-	✘	-	(⇨ page 125)	(⇨ page 201)
250-500	-	-	-	-	-	✘	-	(⇨ page 126)	(⇨ page 202)
300-360	-	-	-	-	-	✘	-	(⇨ page 127)	(⇨ page 204)
300-400	-	-	-	-	-	✘	-	(⇨ page 128)	(⇨ page 205)
300-500	-	-	-	-	-	✘	-	(⇨ page 129)	(⇨ page 206)

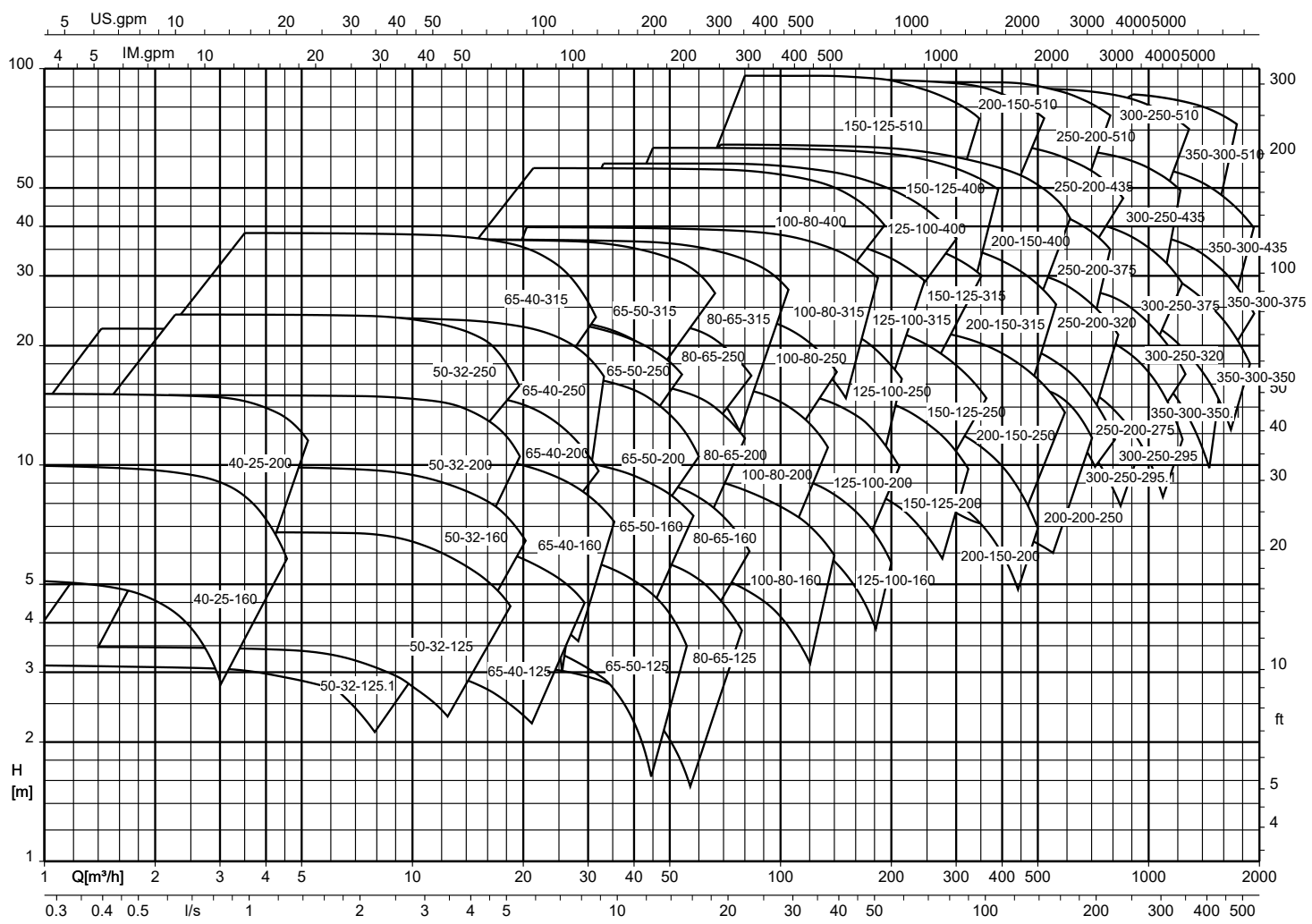
1311.45/12-FR

Grilles de sélection

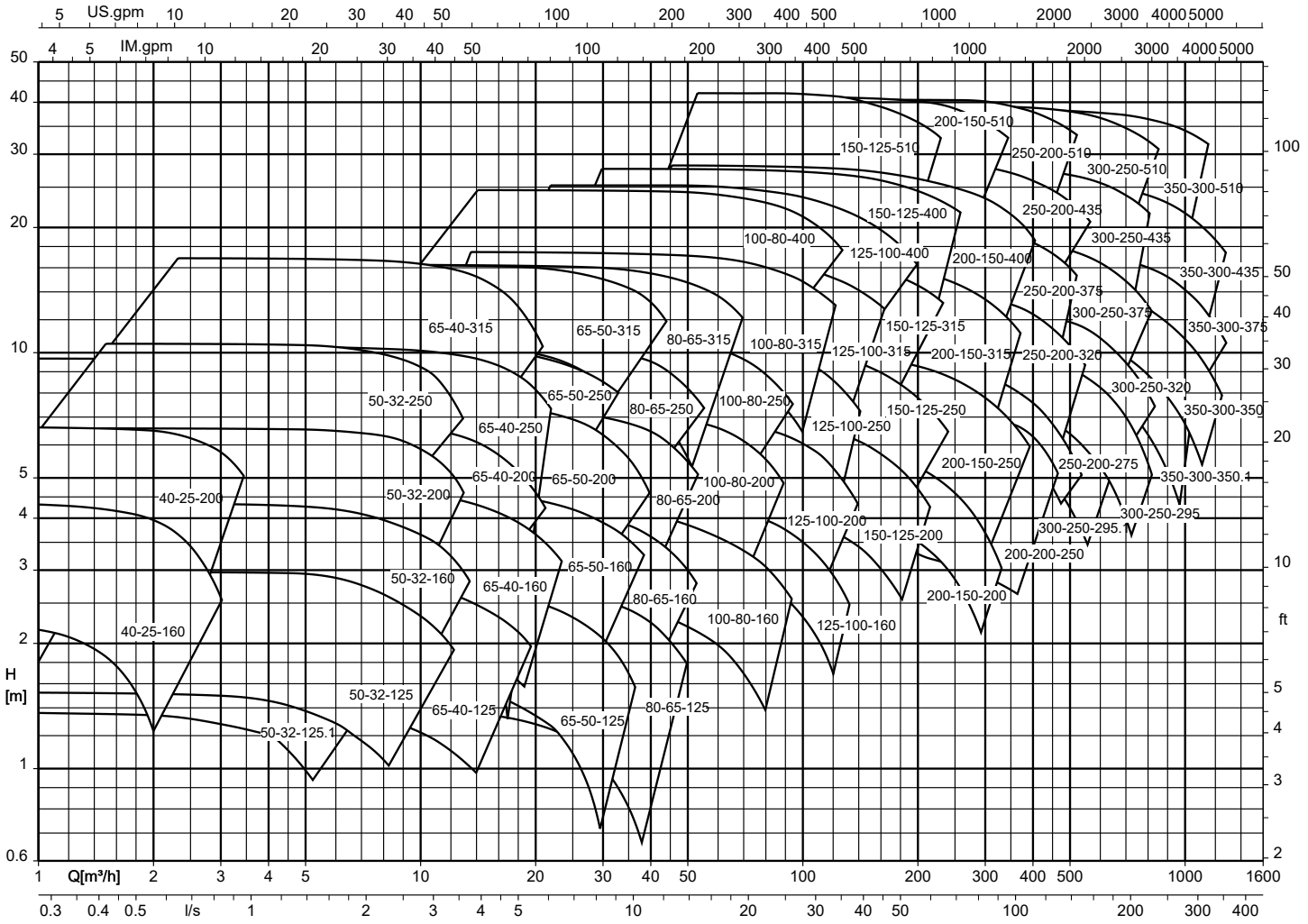
Etanorm, n = 2900 t/min



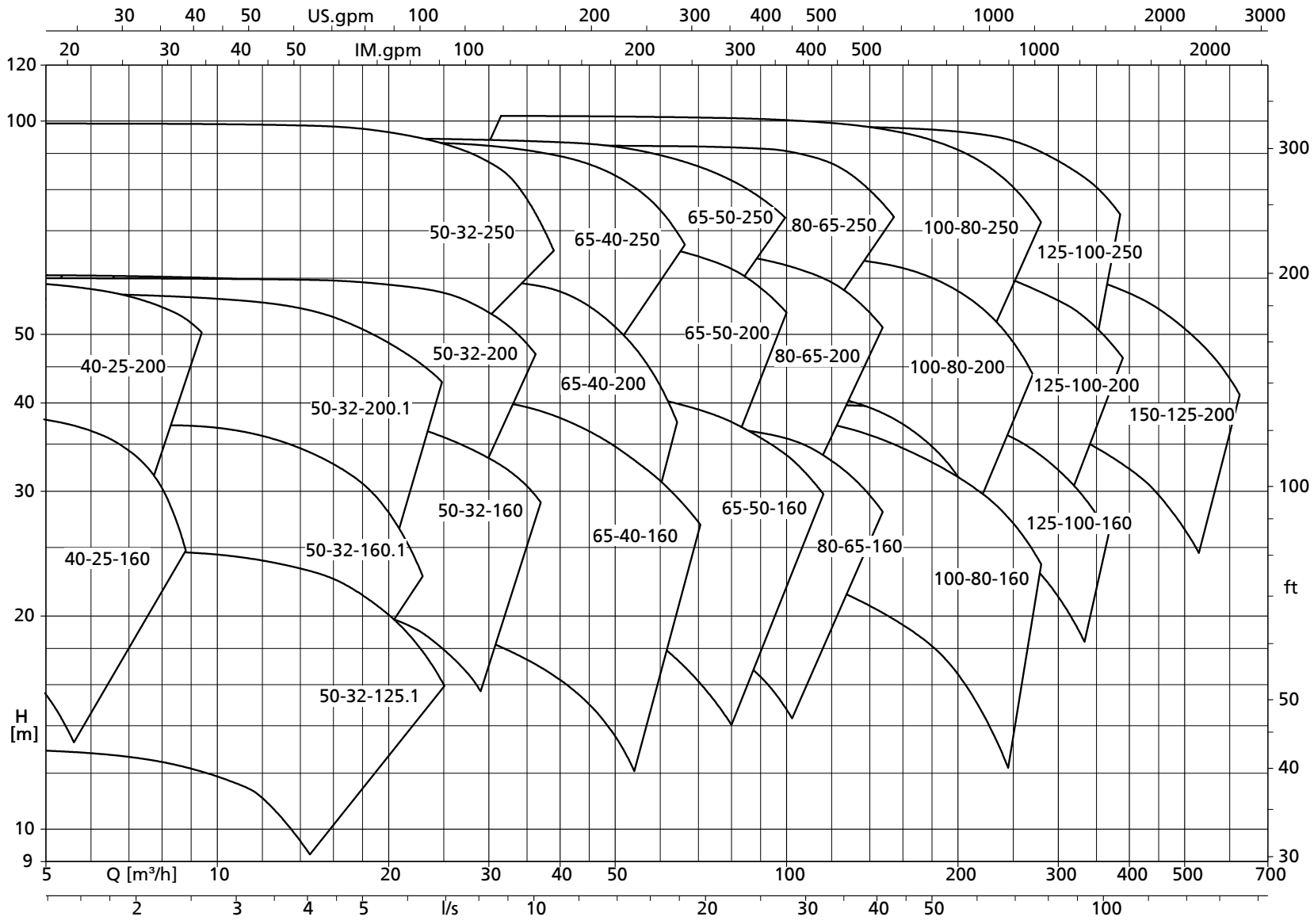
Etanorm, n = 1450 t/min



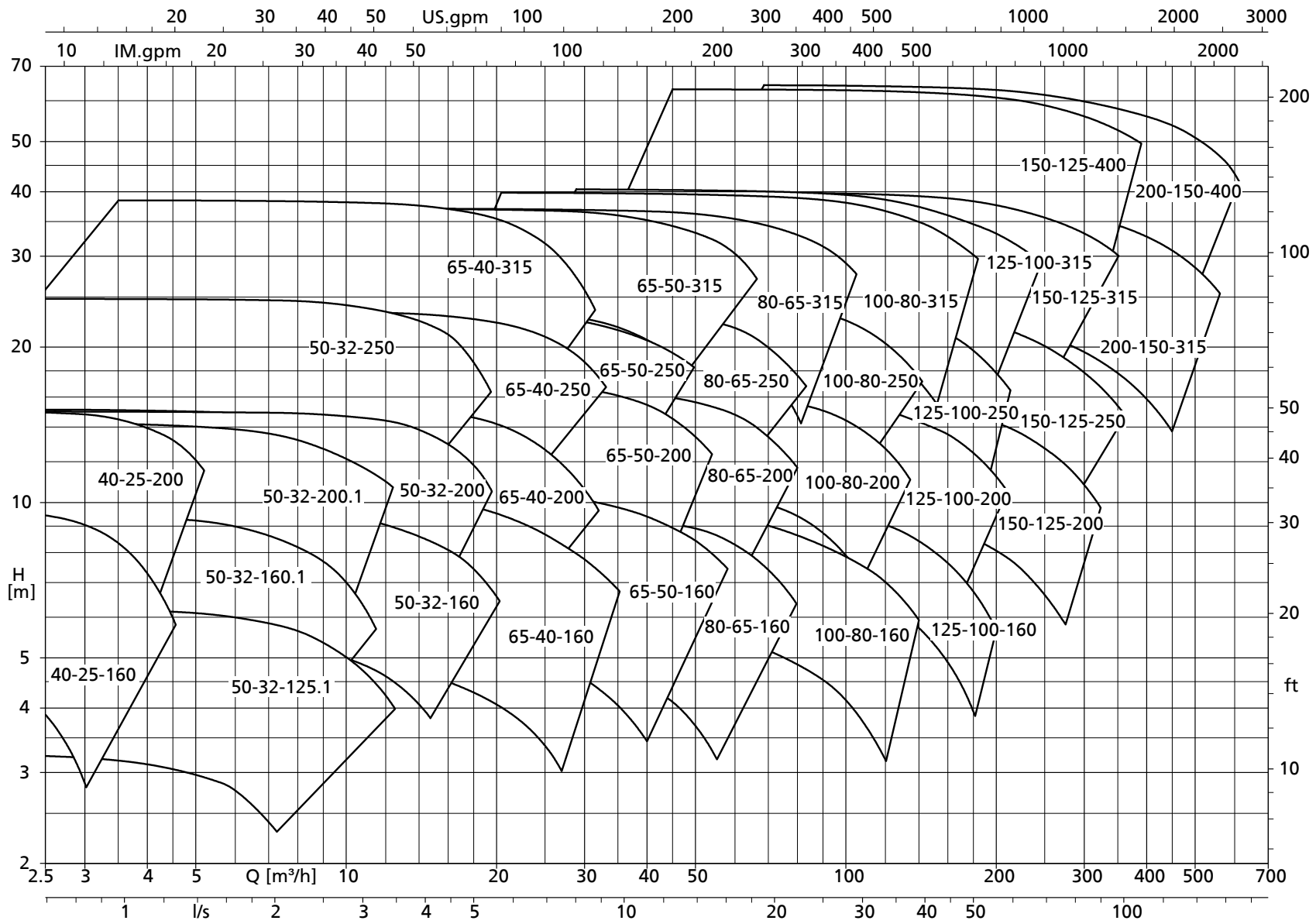
Etanorm, n = 960 t/min



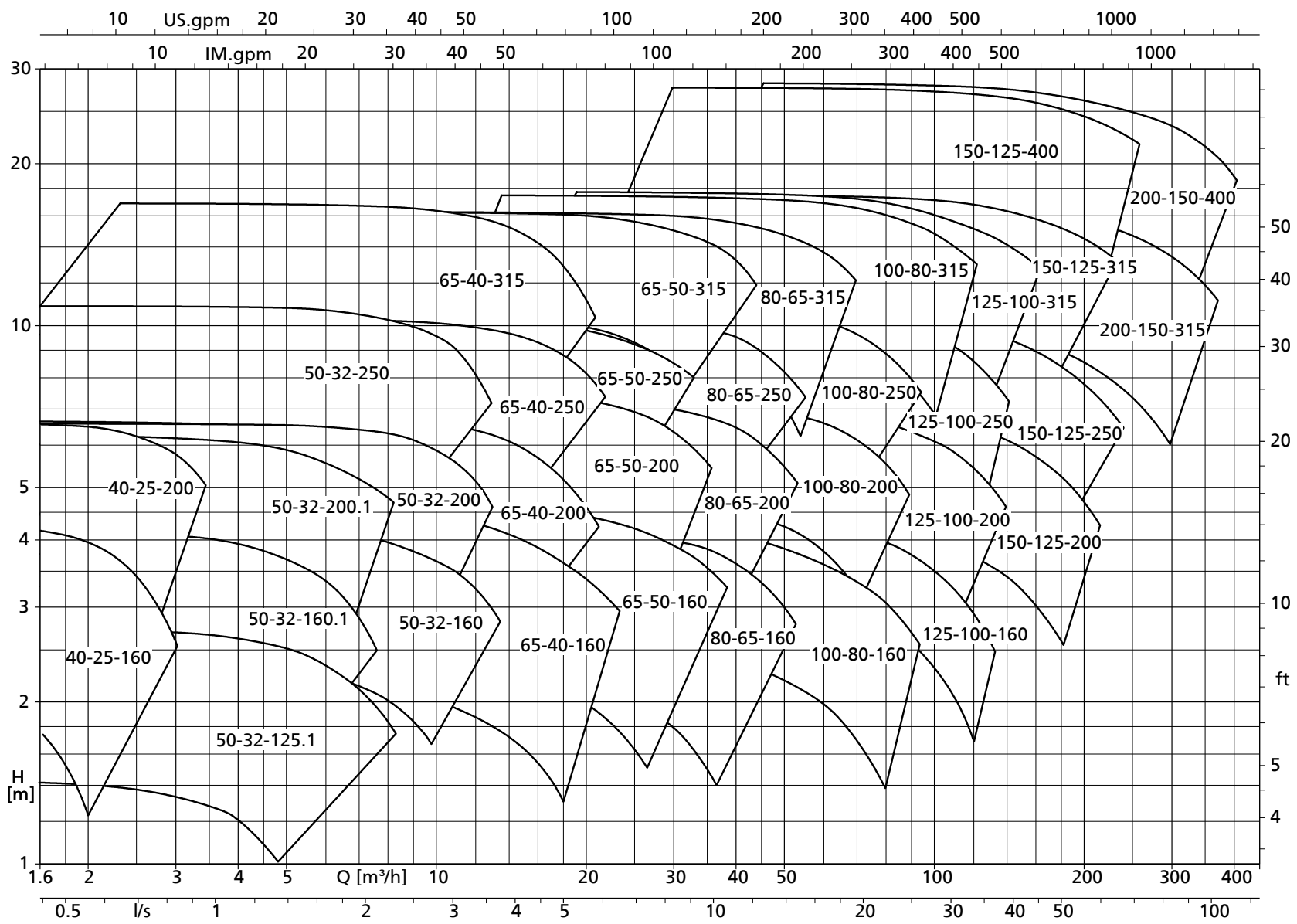
Etanorm SYT, n = 2 900 t/min



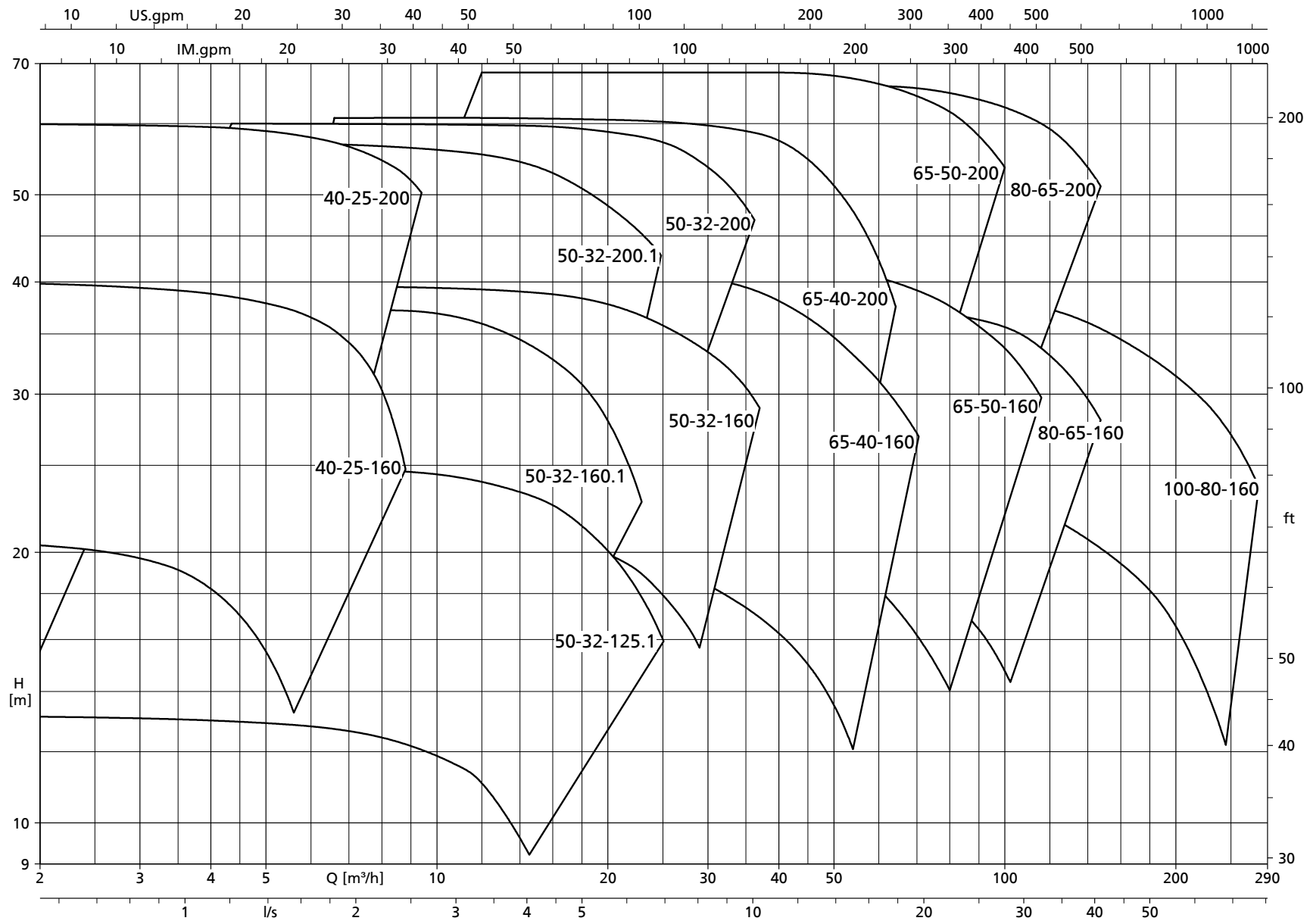
Etanorm SYT, n = 1 450 t/min



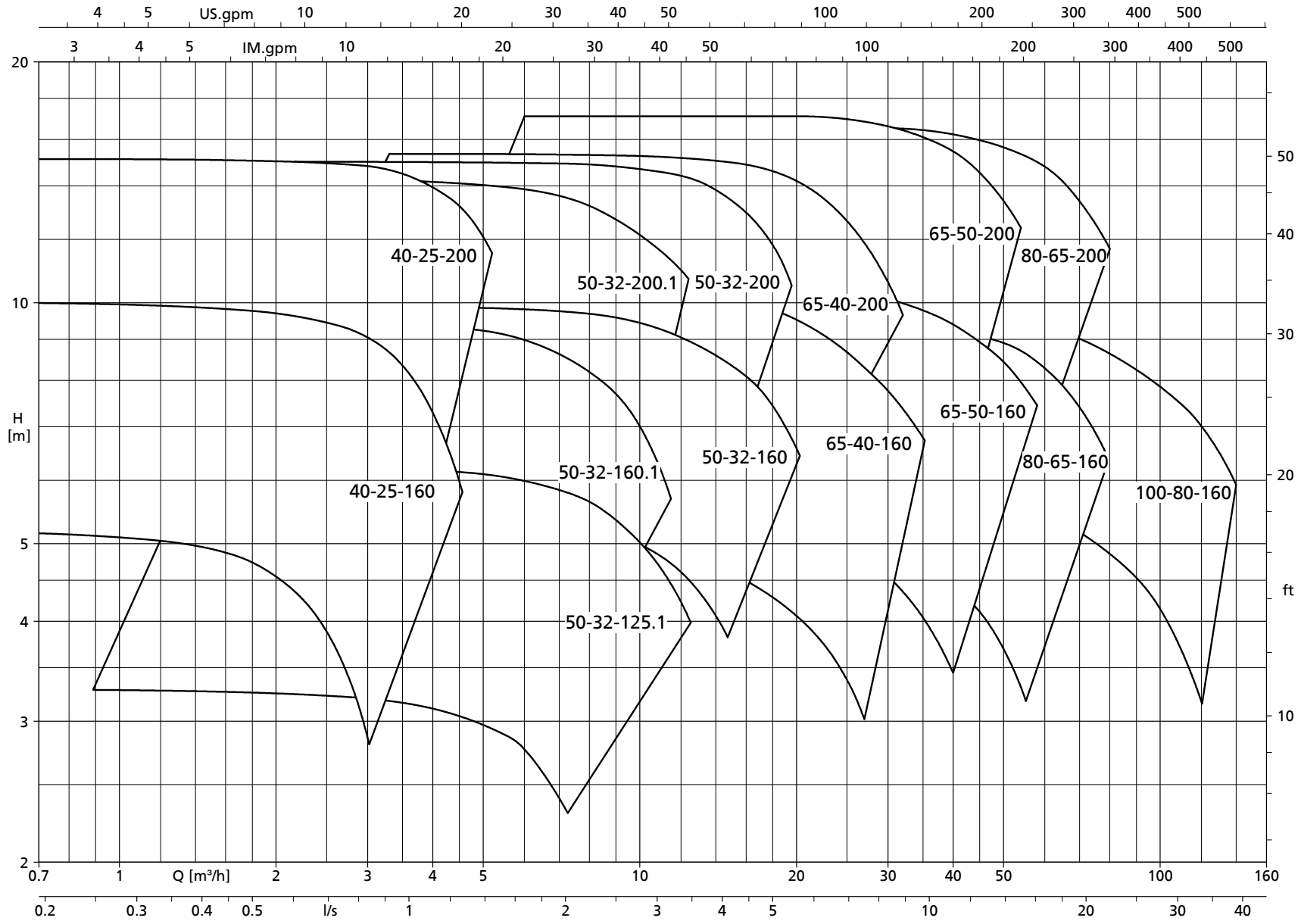
Etanorm SYT, n = 960 t/min



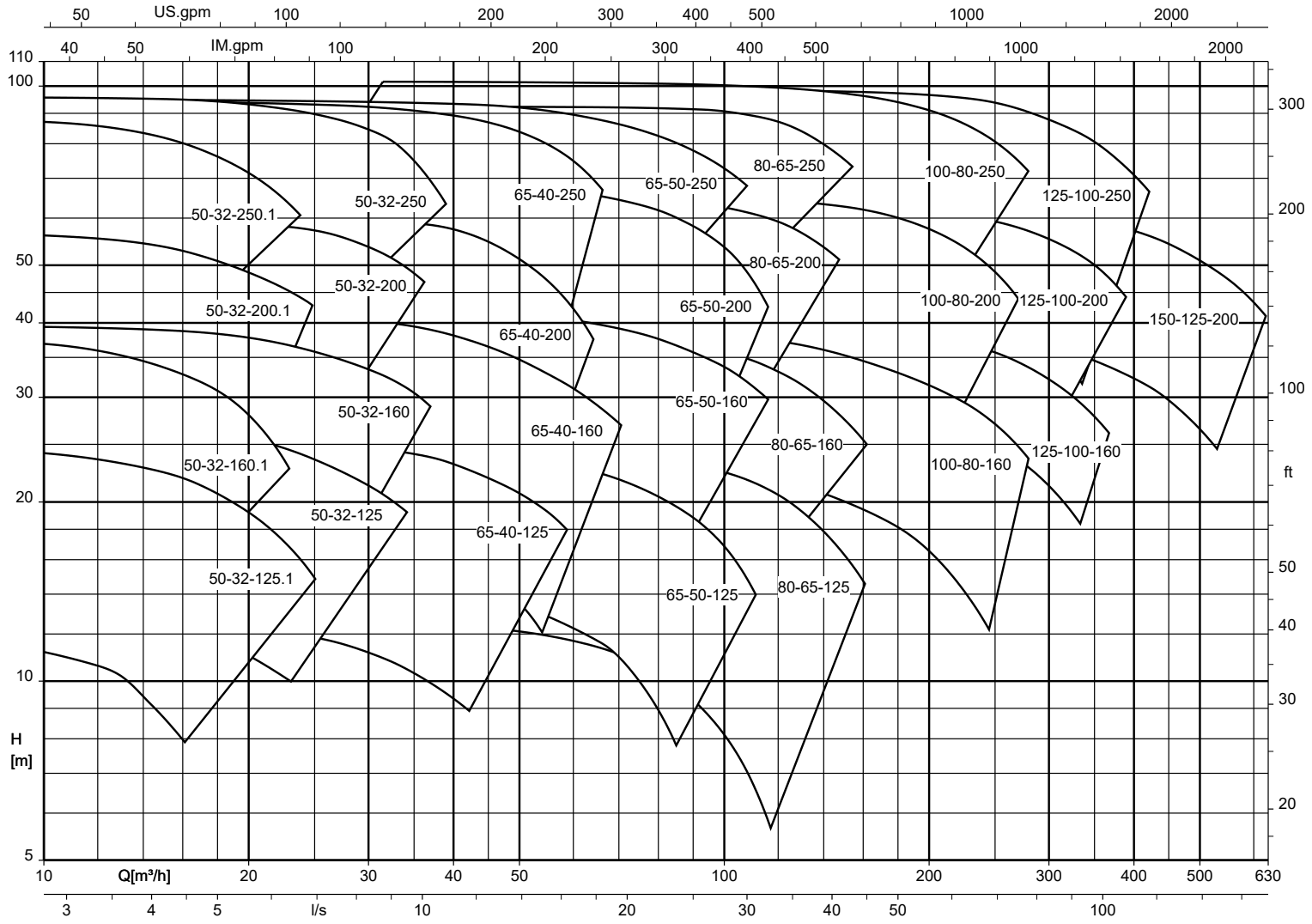
Etabloc SYT, n = 2 900 t/min



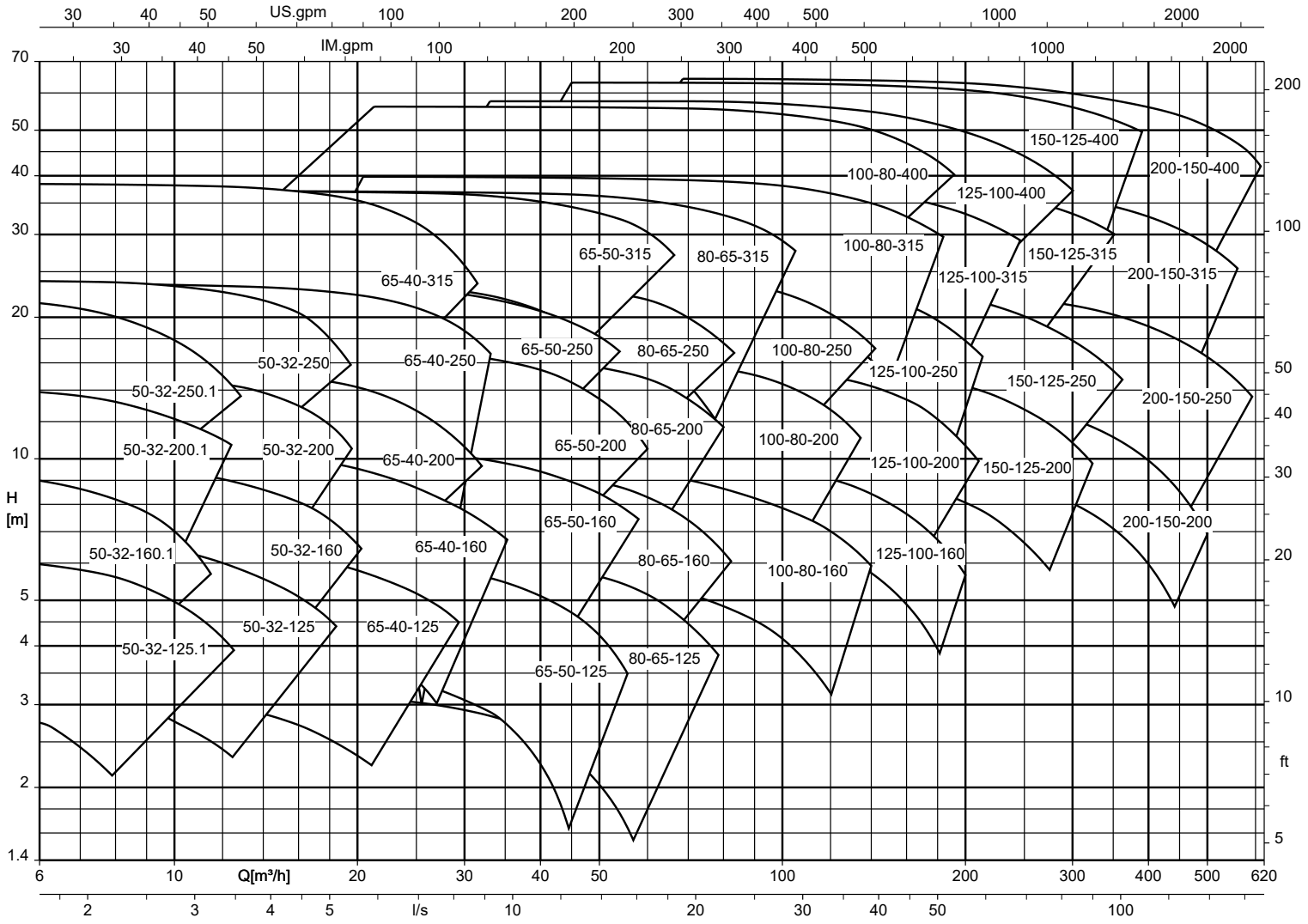
Etabloc SYT, n = 1 450 t/min



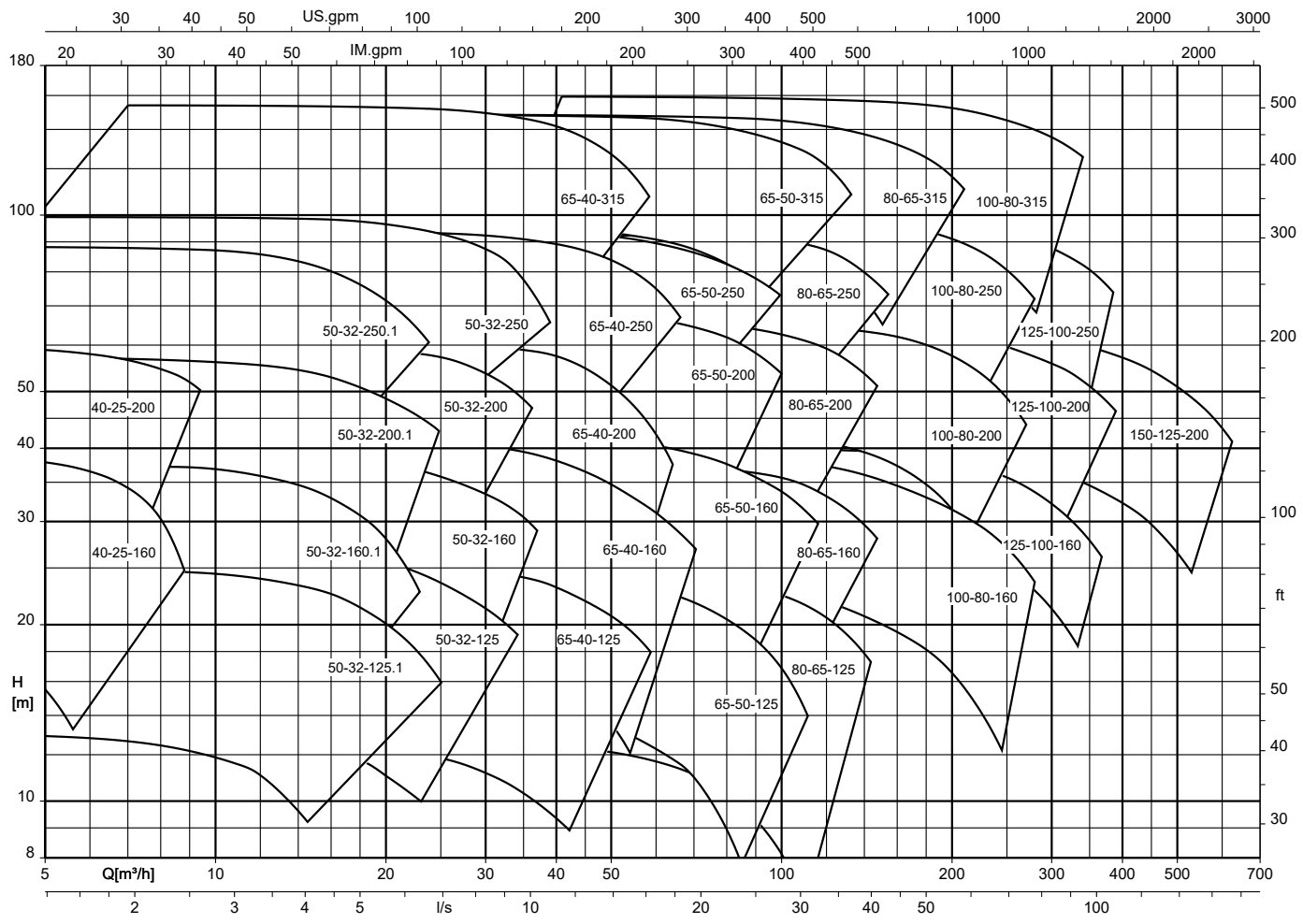
Etanorm V (version à vitesse fixe), n = 2900 t/min



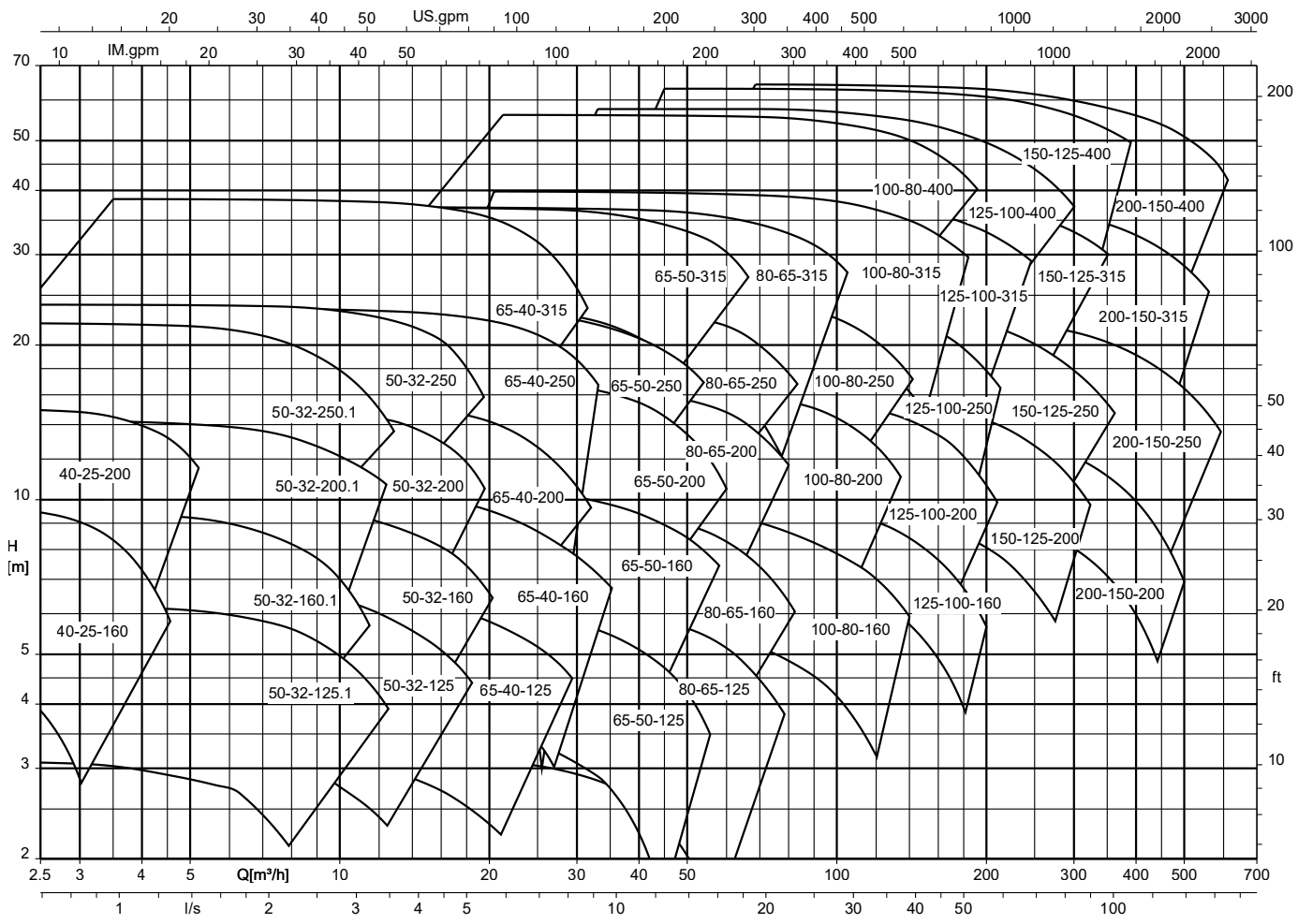
Etanorm V (version à vitesse fixe), n = 1450 t/min



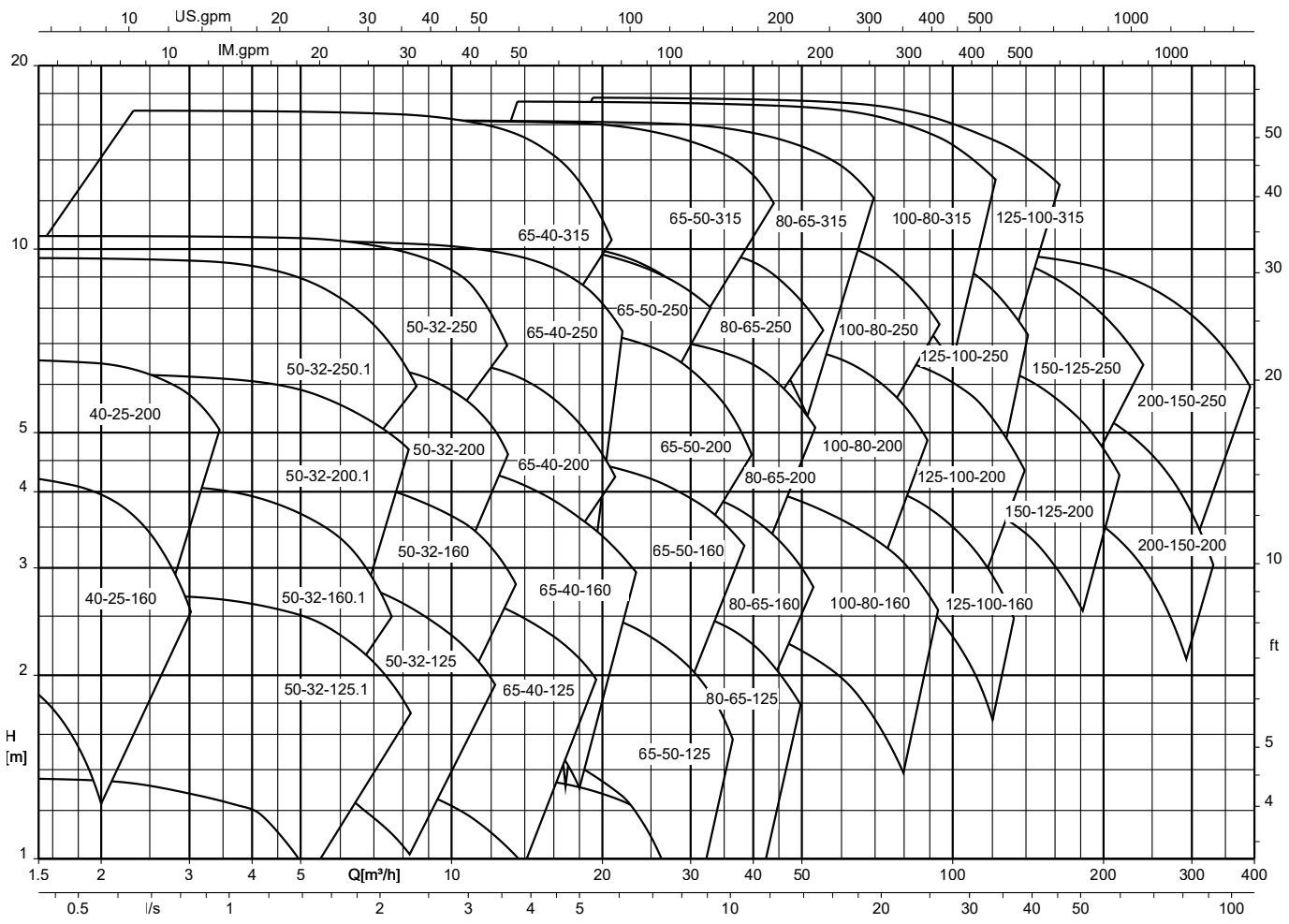
Etabloc, n = 2900 t/min (version à vitesse fixe)



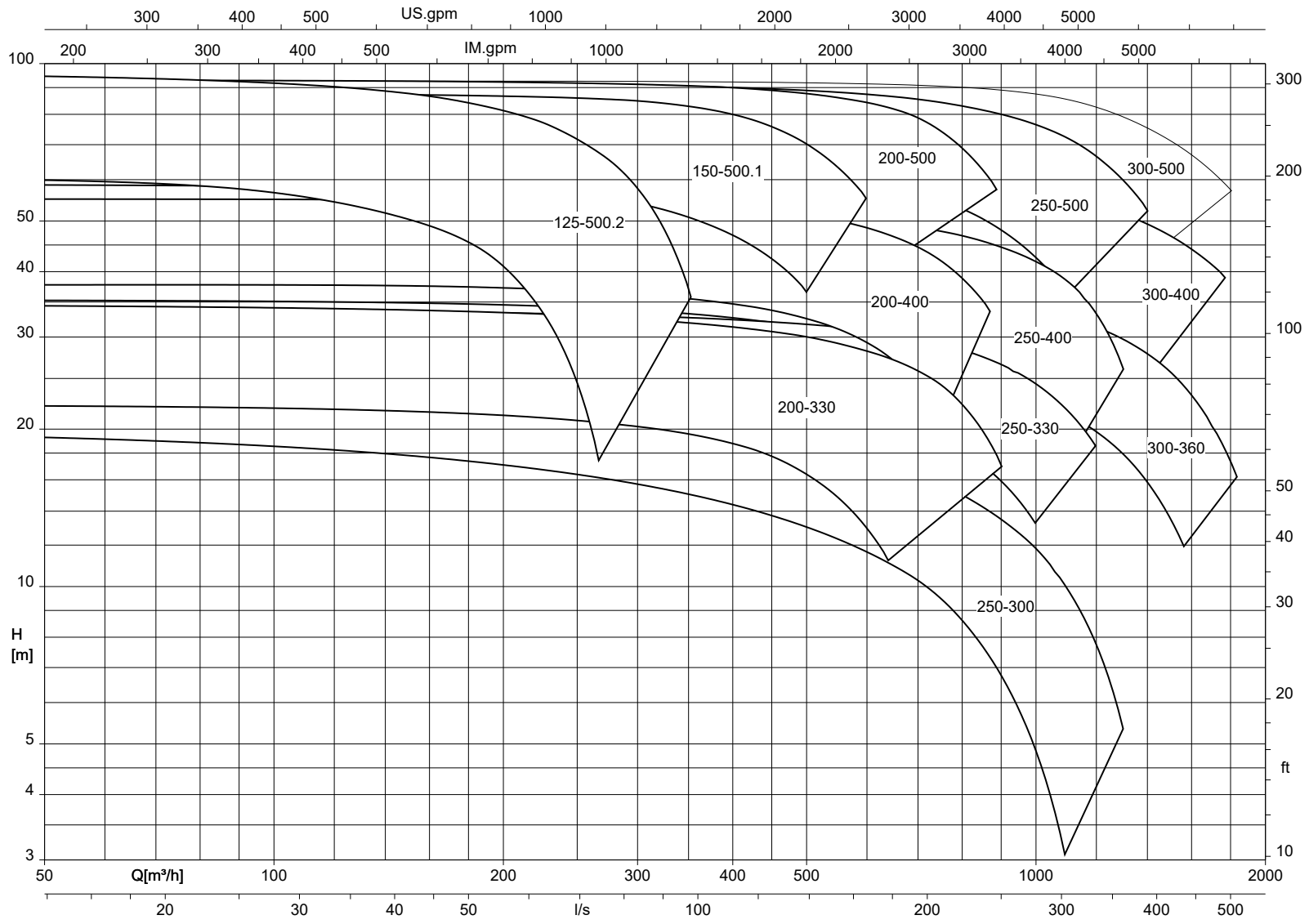
Etabloc, n = 1450 t/min (version à vitesse fixe)



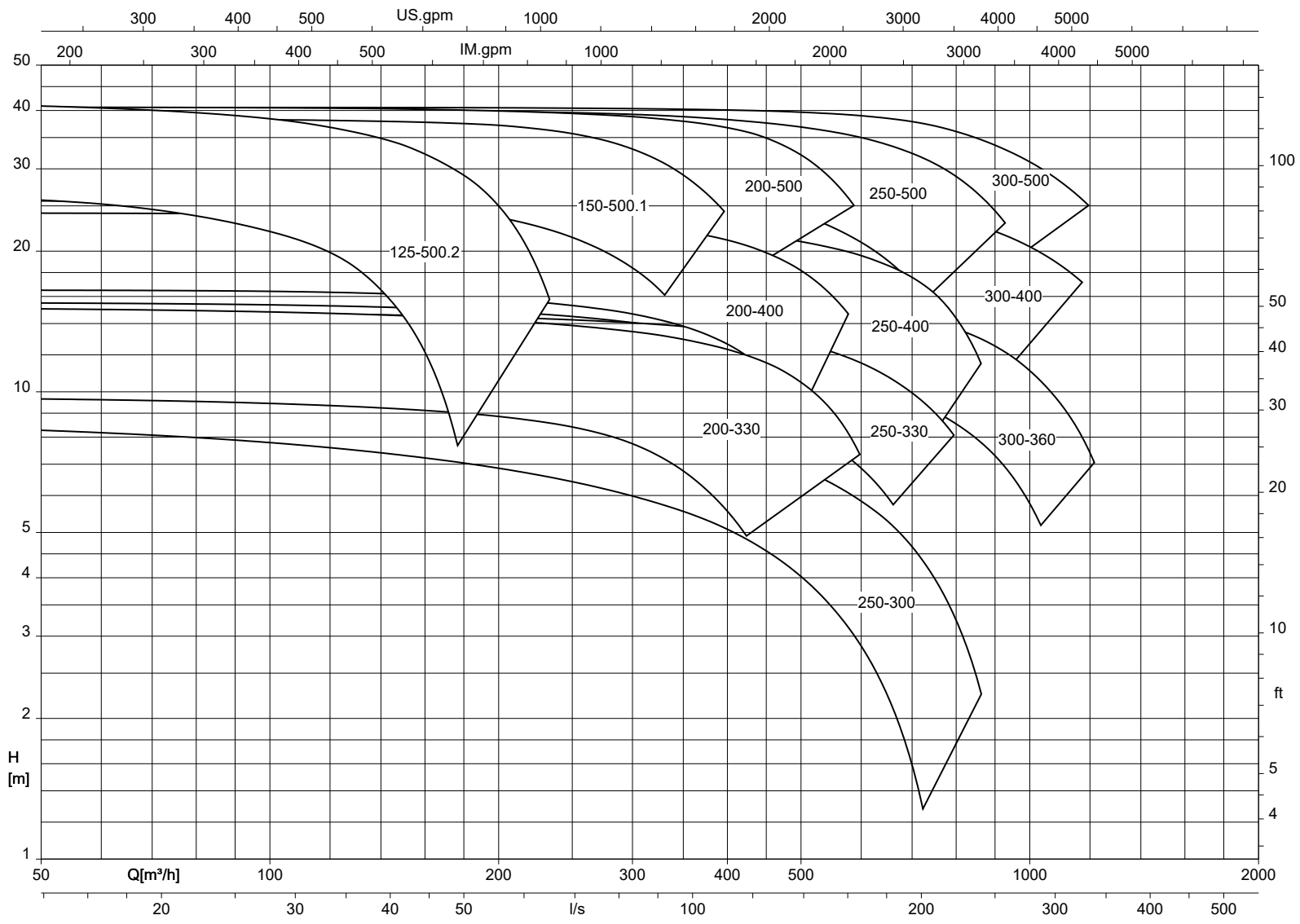
Etabloc, n = 960 t/min (version à vitesse fixe)



Etanorm-RSY, n = 1 450 t/min



Etanorm-RSY, n = 960 t/min

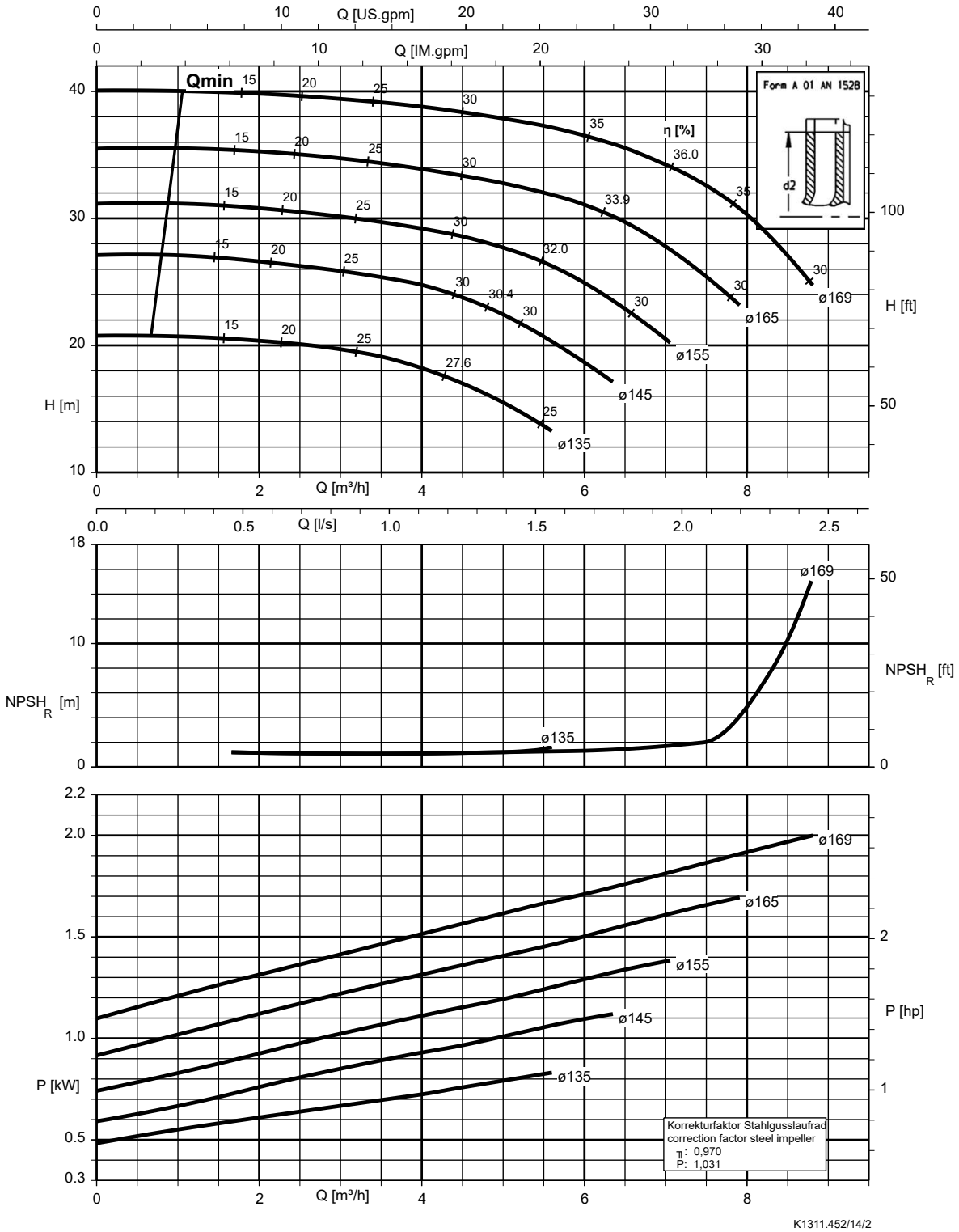


Courbes caractéristiques

n = 2900 t/min

Etanorm 040-025-160, n = 2 900 t/min

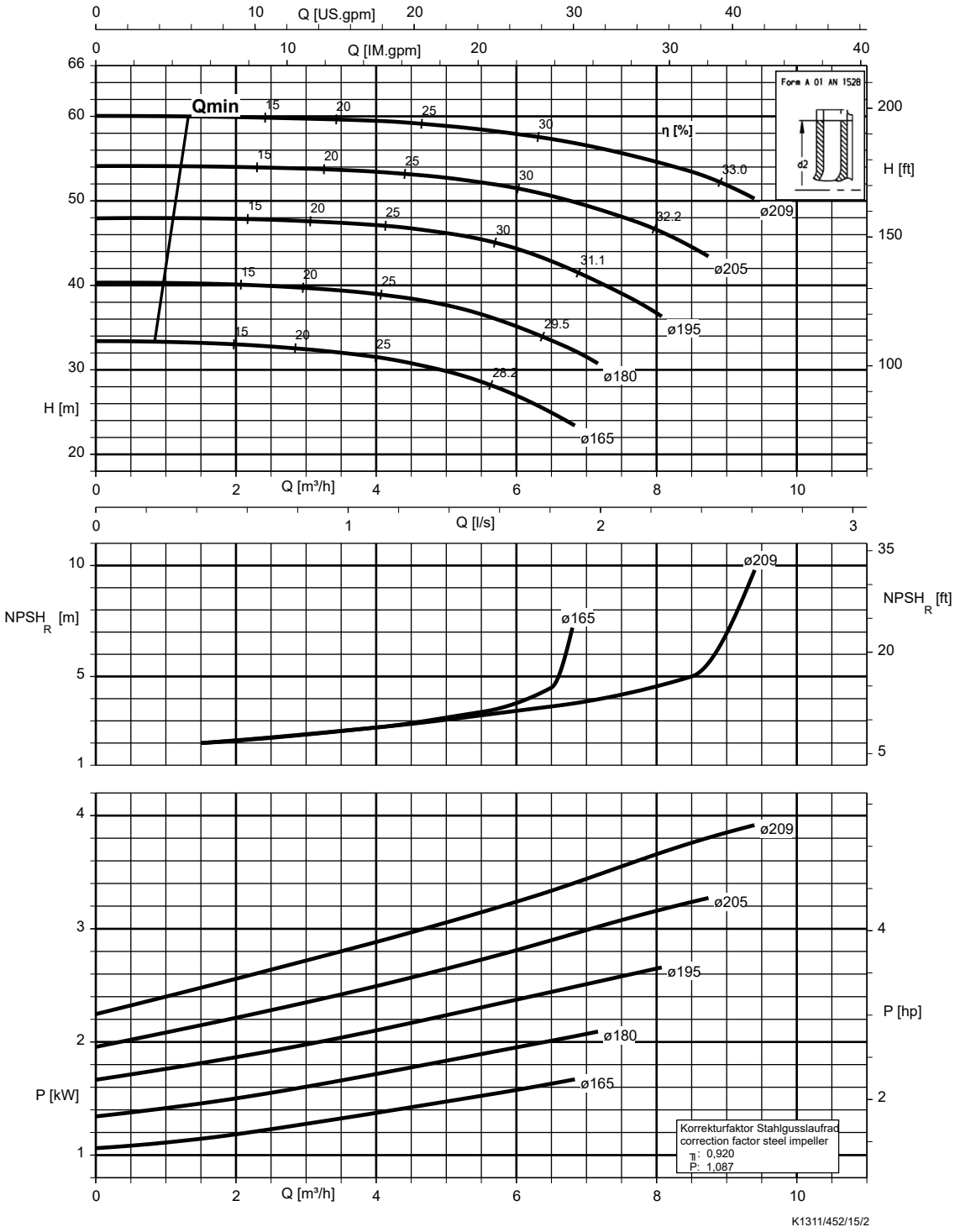
Etanorm SYT, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 040-025-200, n = 2 900 t/min

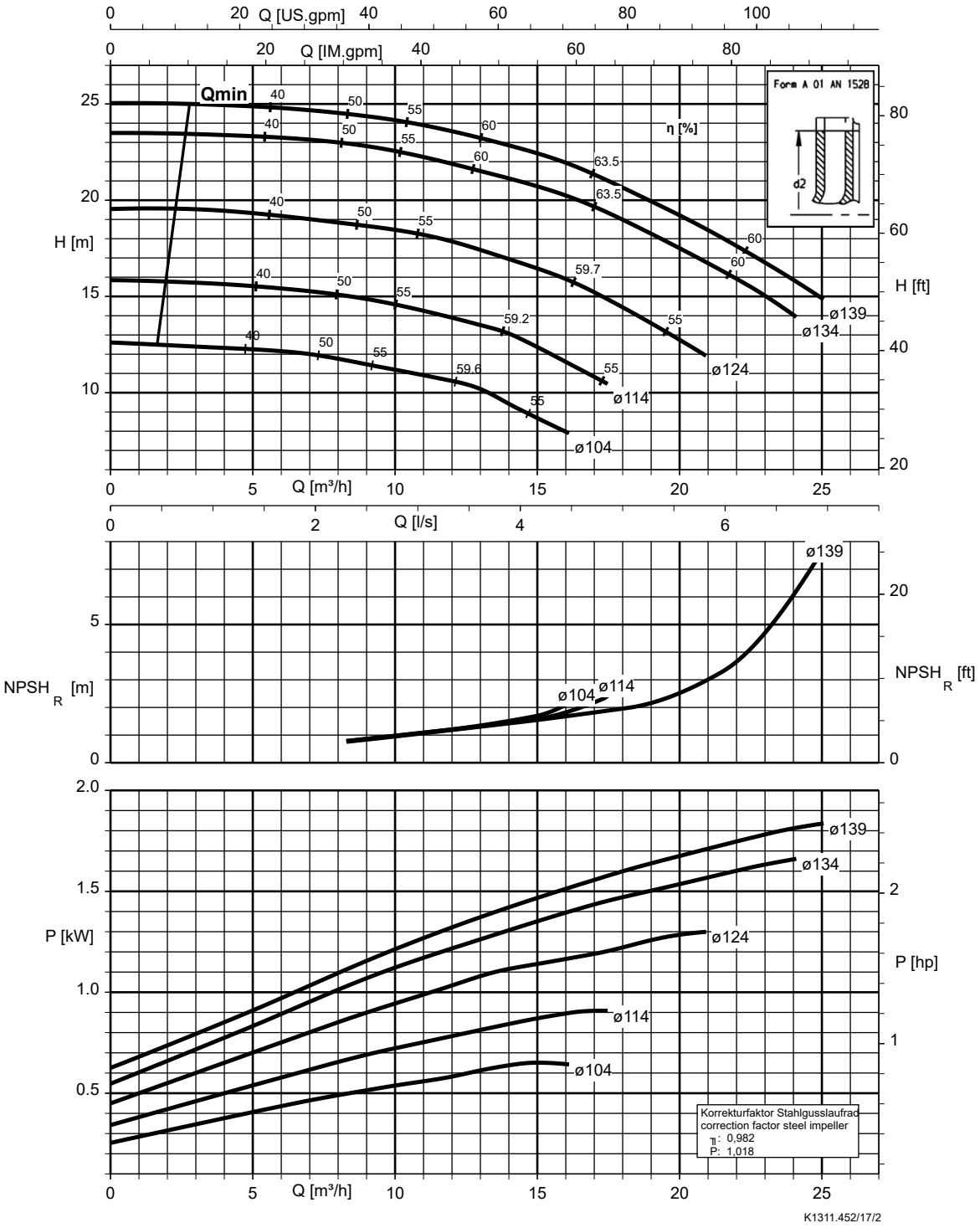
Etanorm SYT, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 050-032-125.1, n = 2 900 t/min

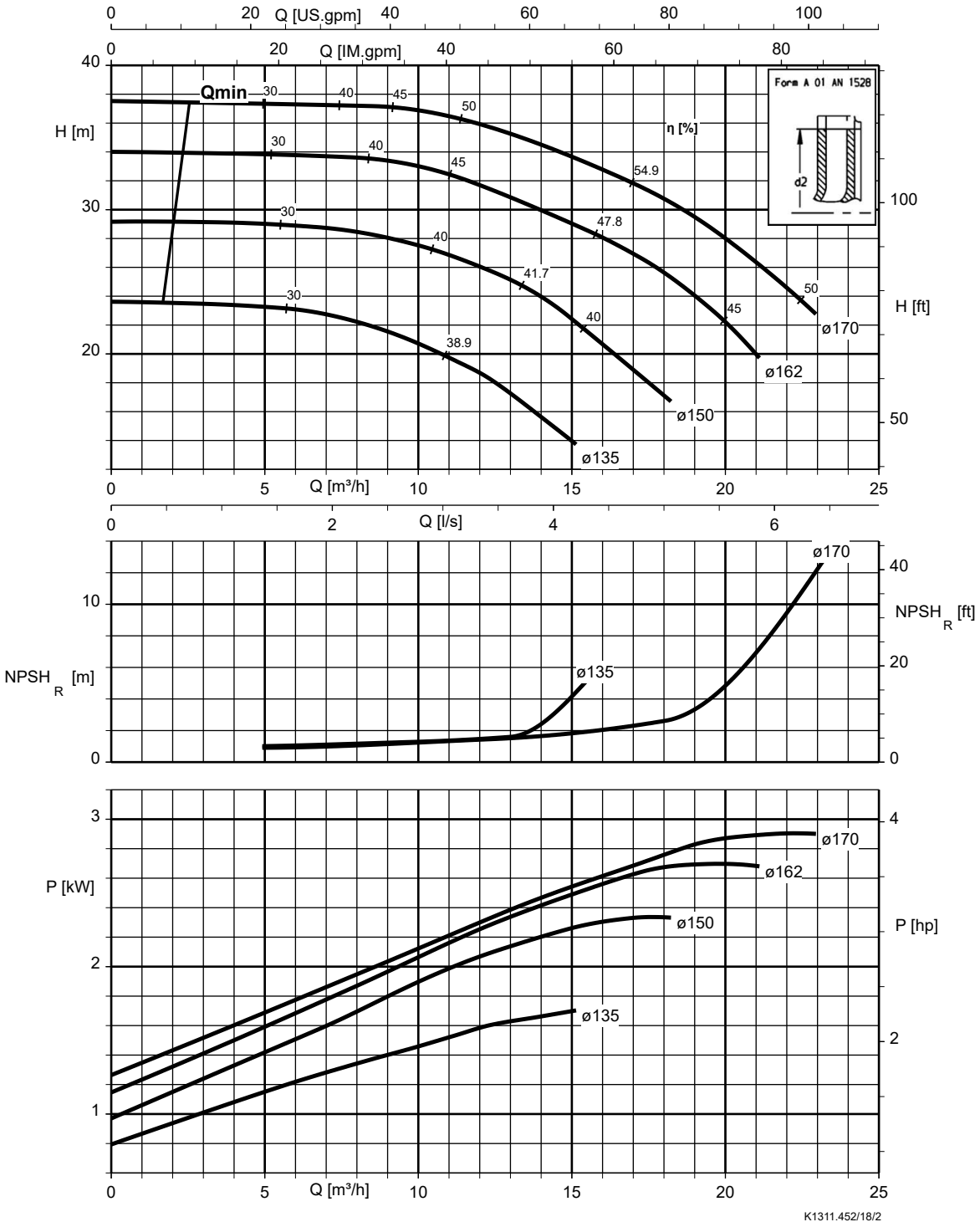
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 050-032-160.1, n = 2 900 t/min

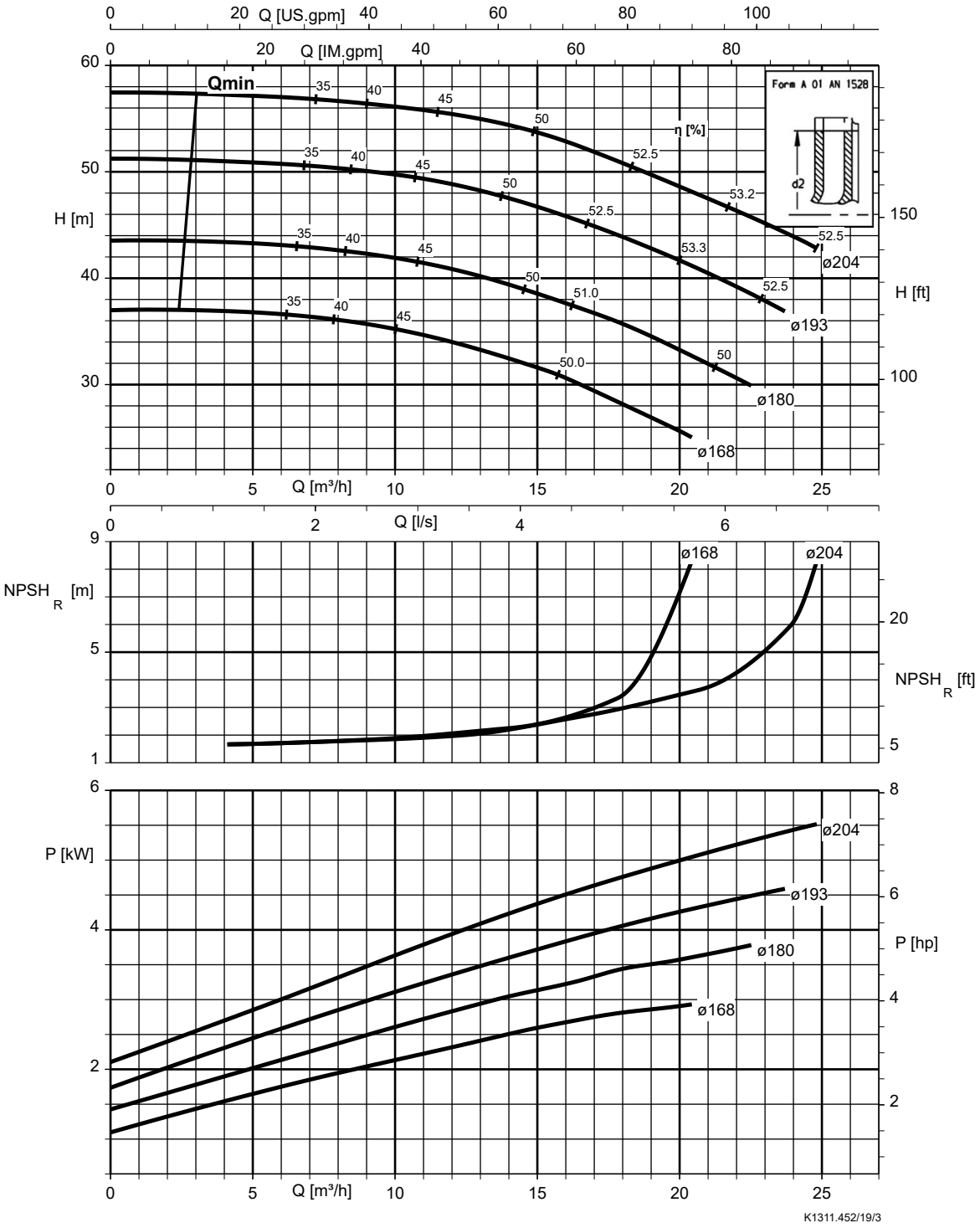
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 050-032-200.1, n = 2 900 t/min

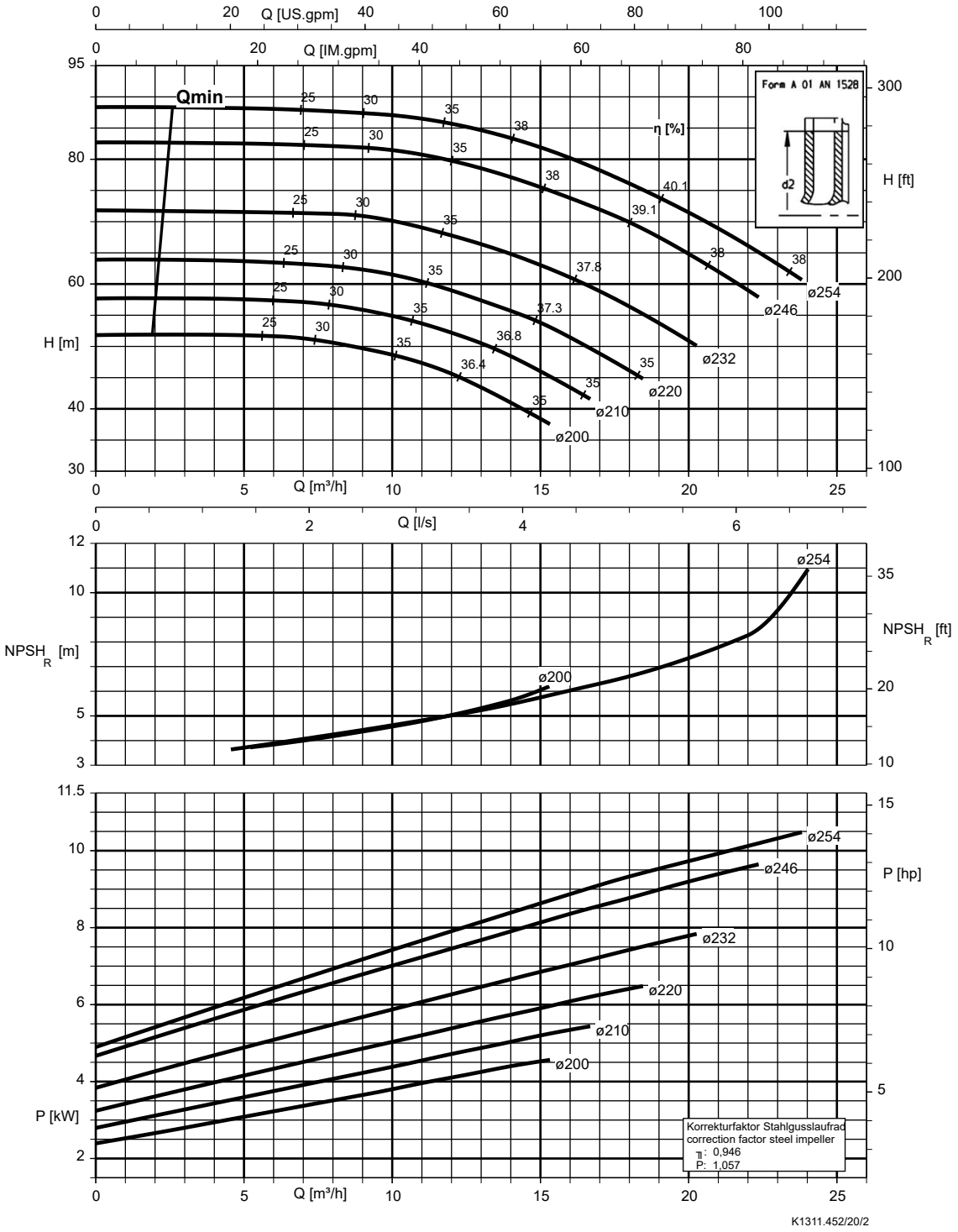
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 050-032-250.1, n = 2 900 t/min

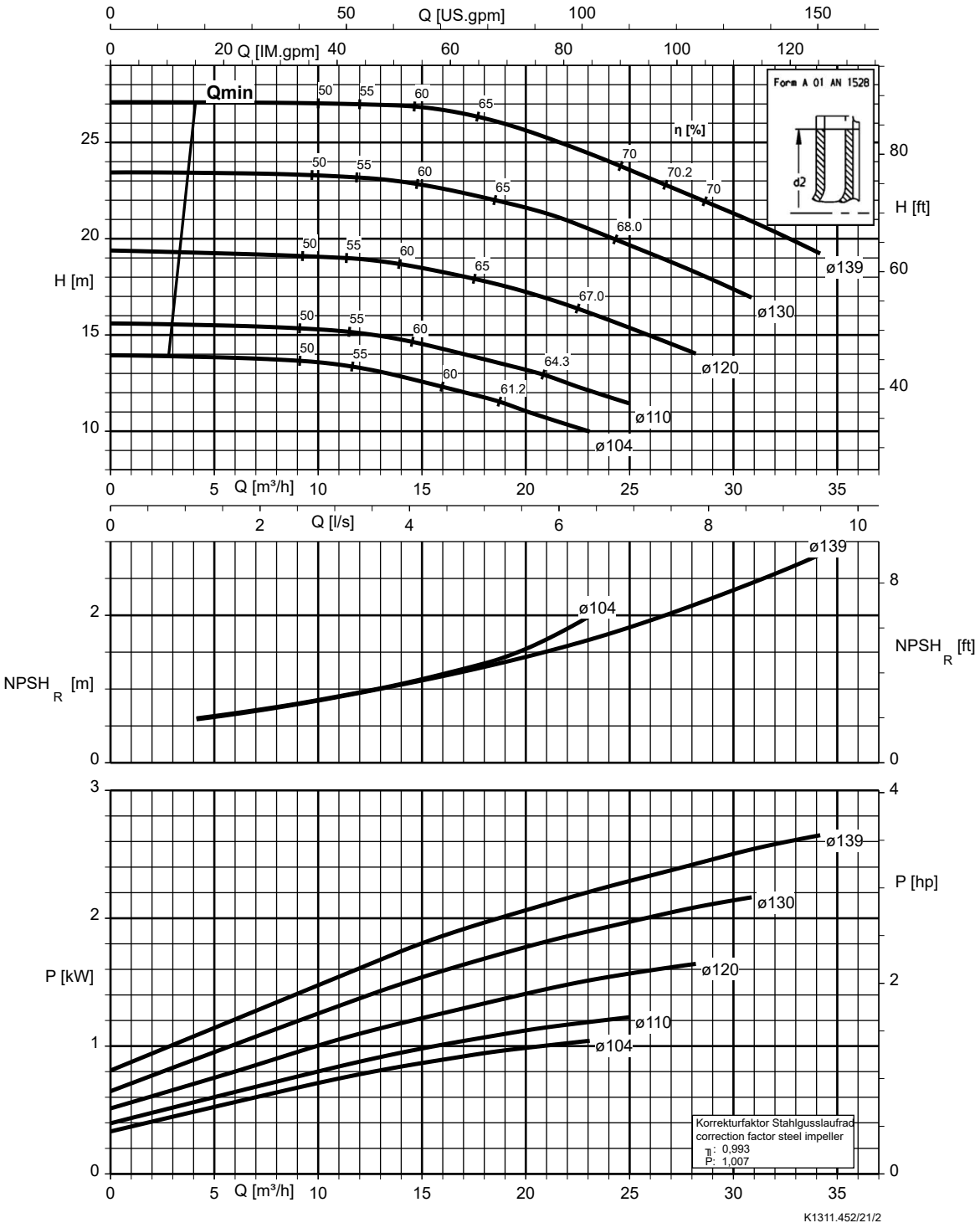
Etanorm V, Etabloc



1311.45/12-FR

Etanorm 050-032-125, n = 2 900 t/min

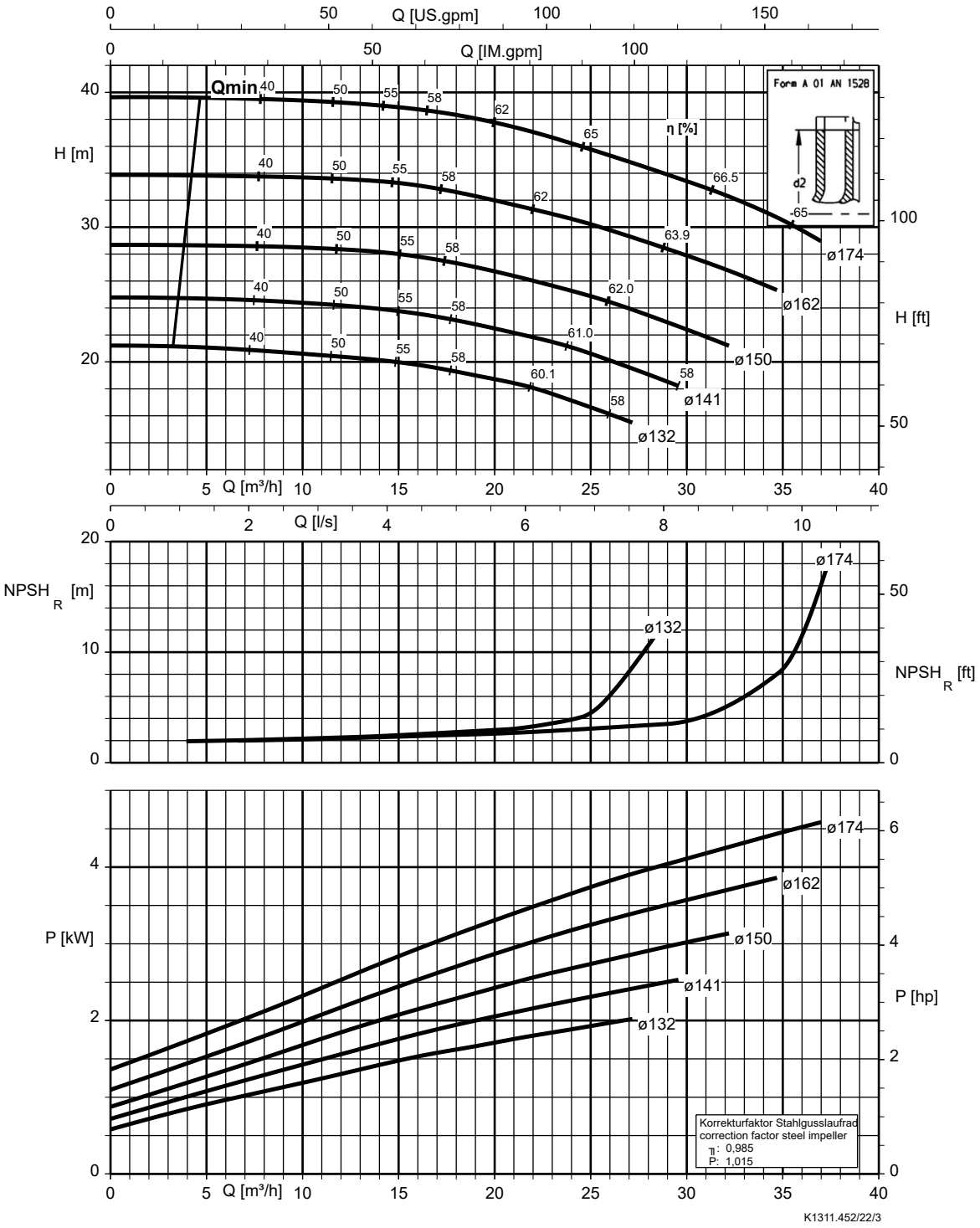
Etanorm V, Etabloc



1311.45/12-FR

Etanorm 050-032-160, n = 2 900 t/min

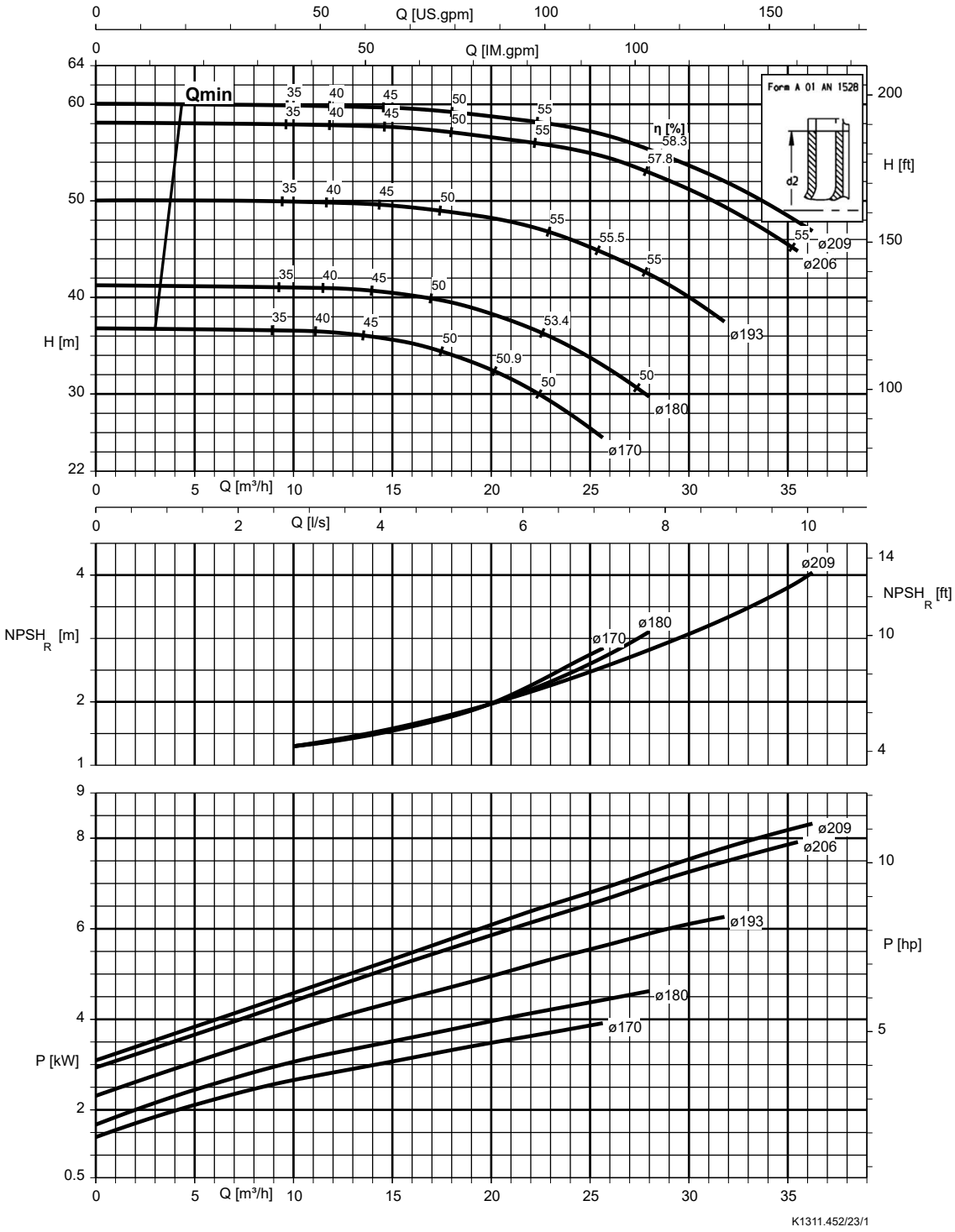
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 050-032-200, n = 2 900 t/min

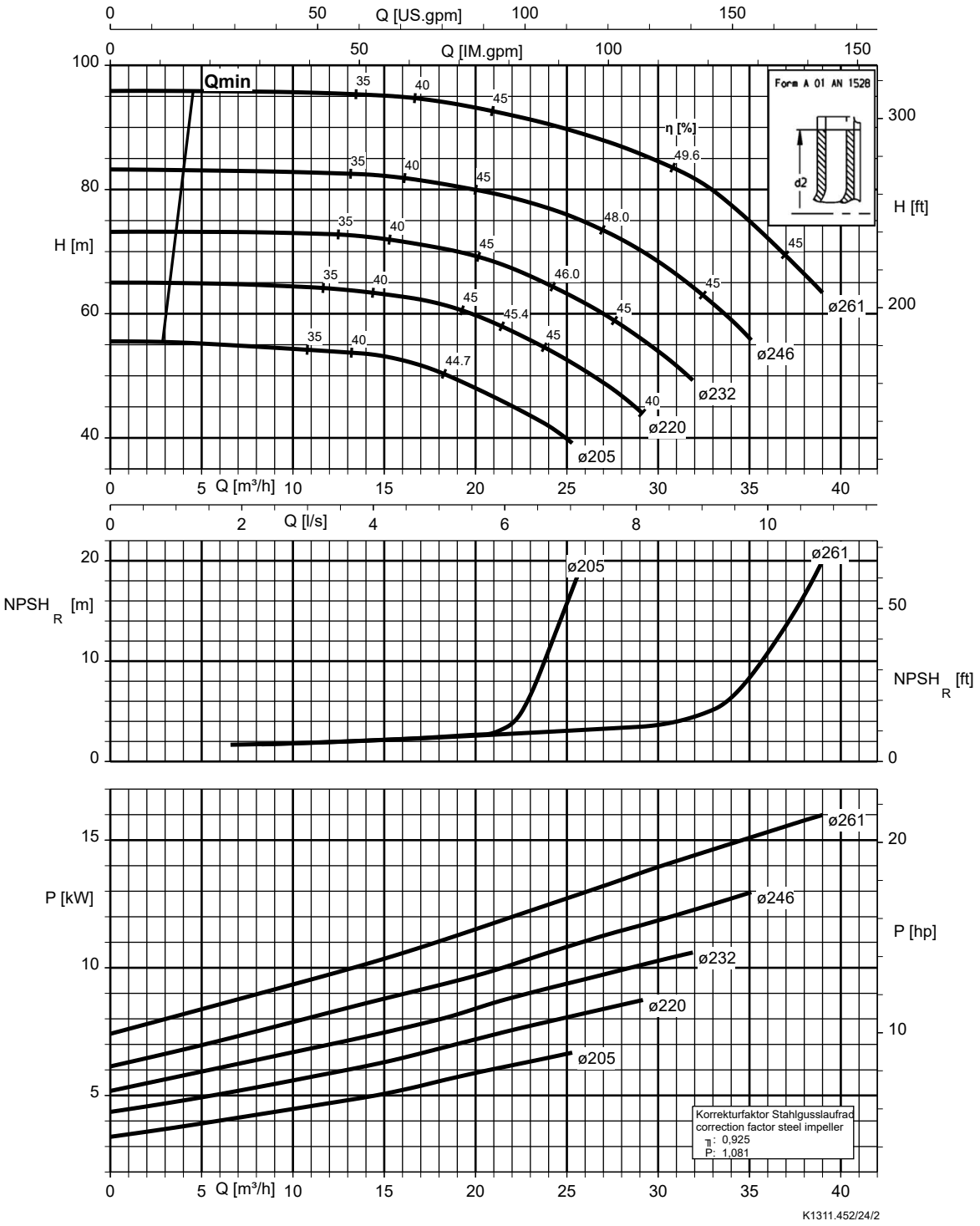
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 050-032-250, n = 2 900 t/min

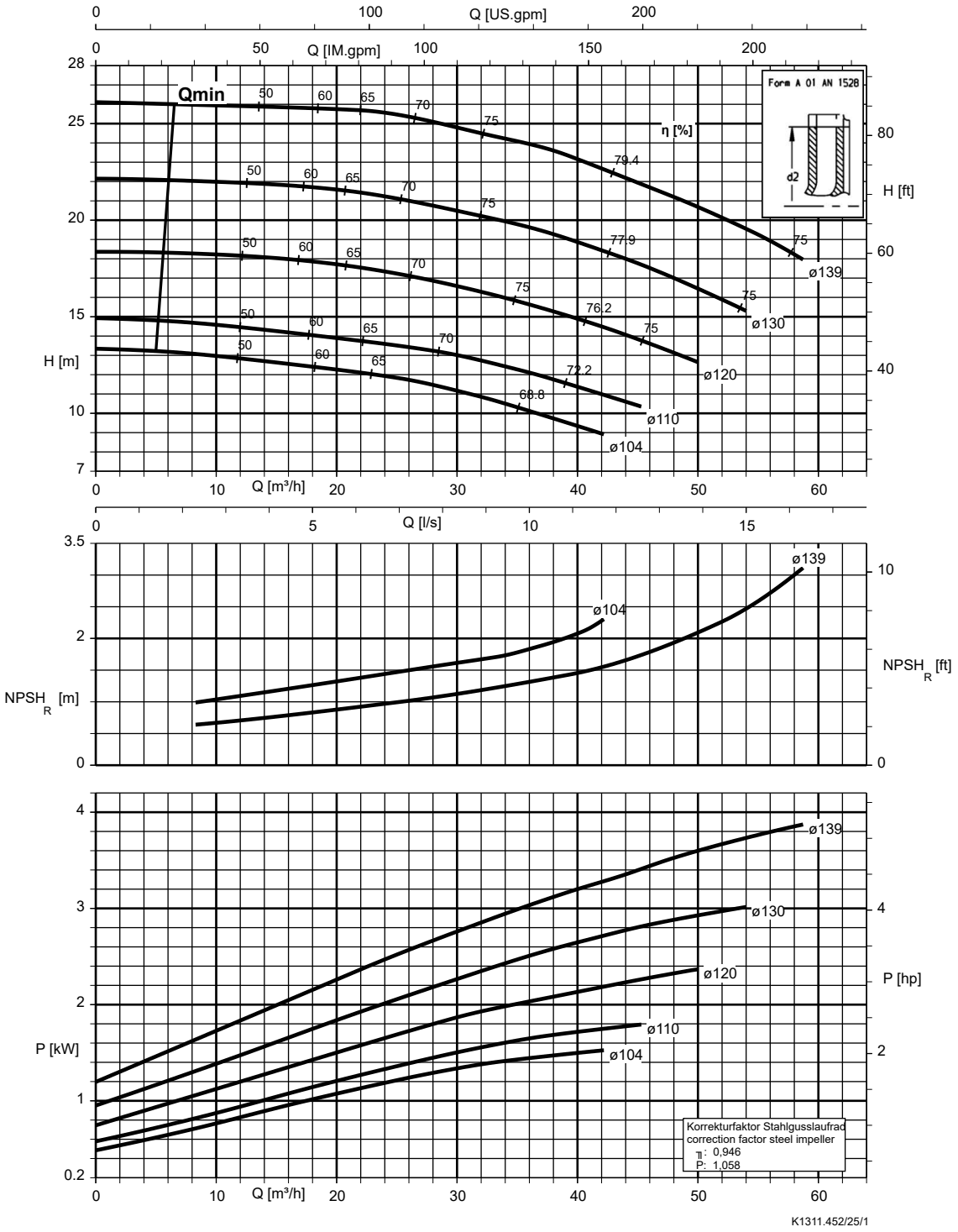
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 065-040-125, n = 2 900 t/min

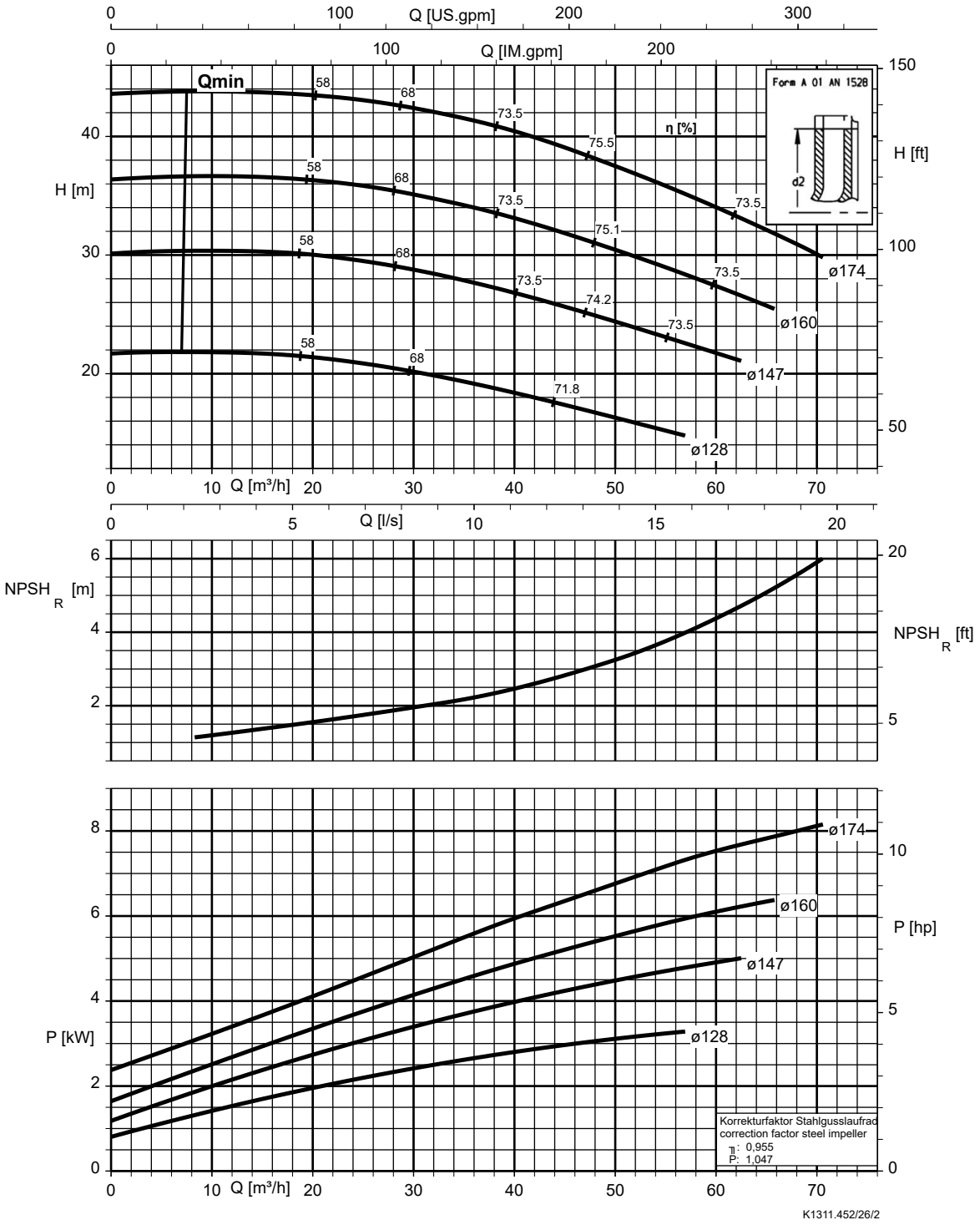
Etanorm V, Etabloc



1311.45/12-FR

Etanorm 065-040-160, n = 2 900 t/min

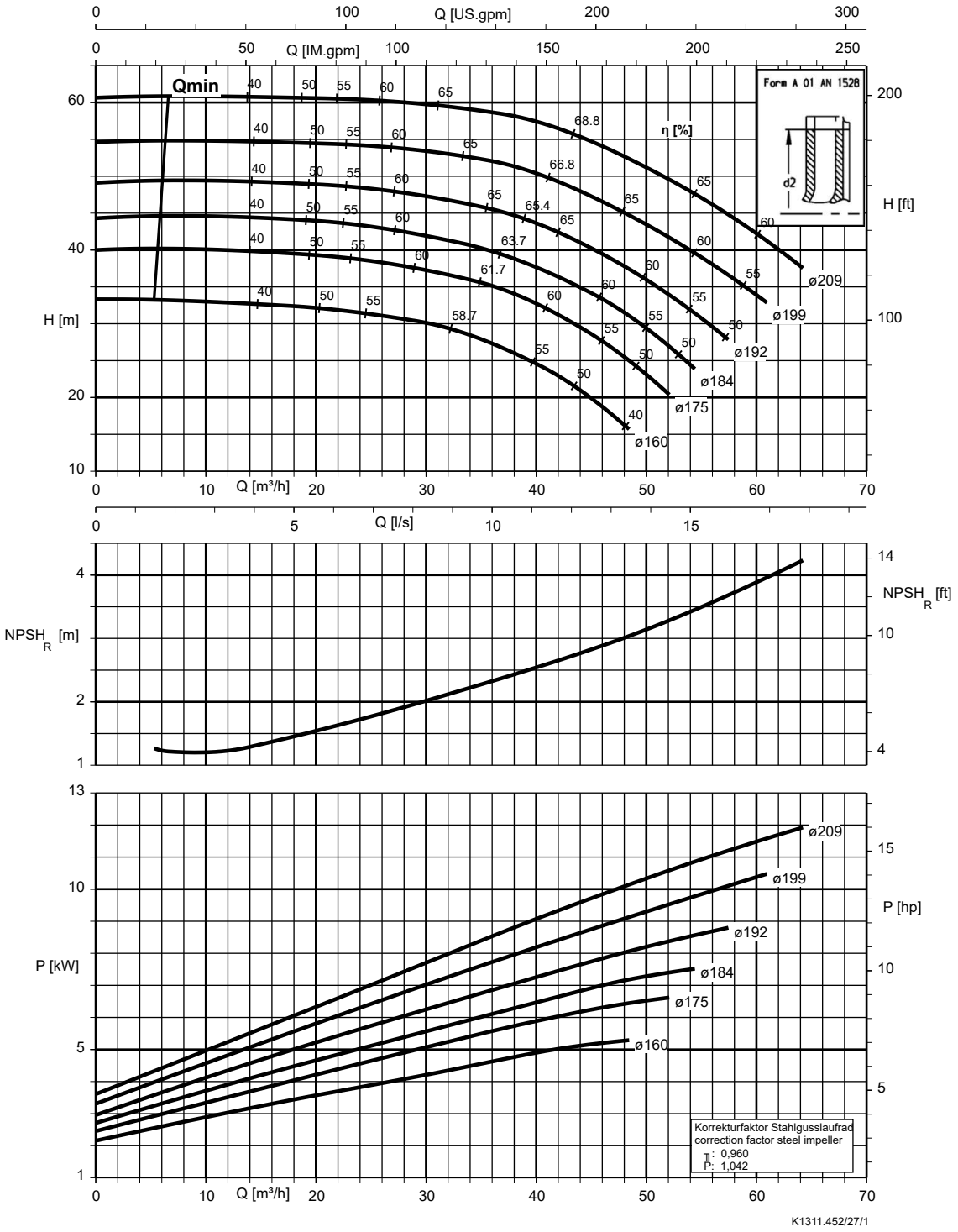
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 065-040-200, n = 2 900 t/min

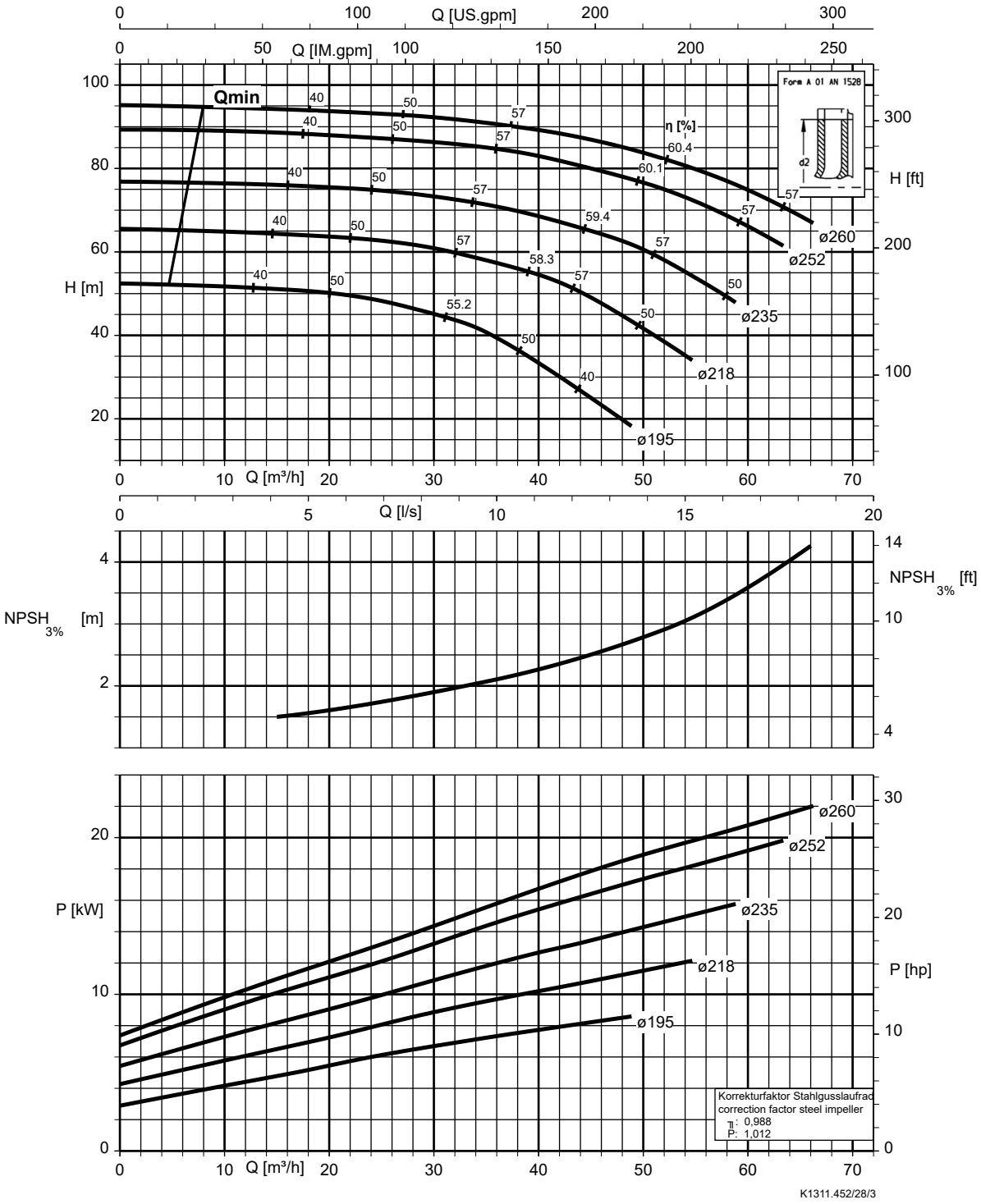
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 065-040-250, n = 2 900 t/min

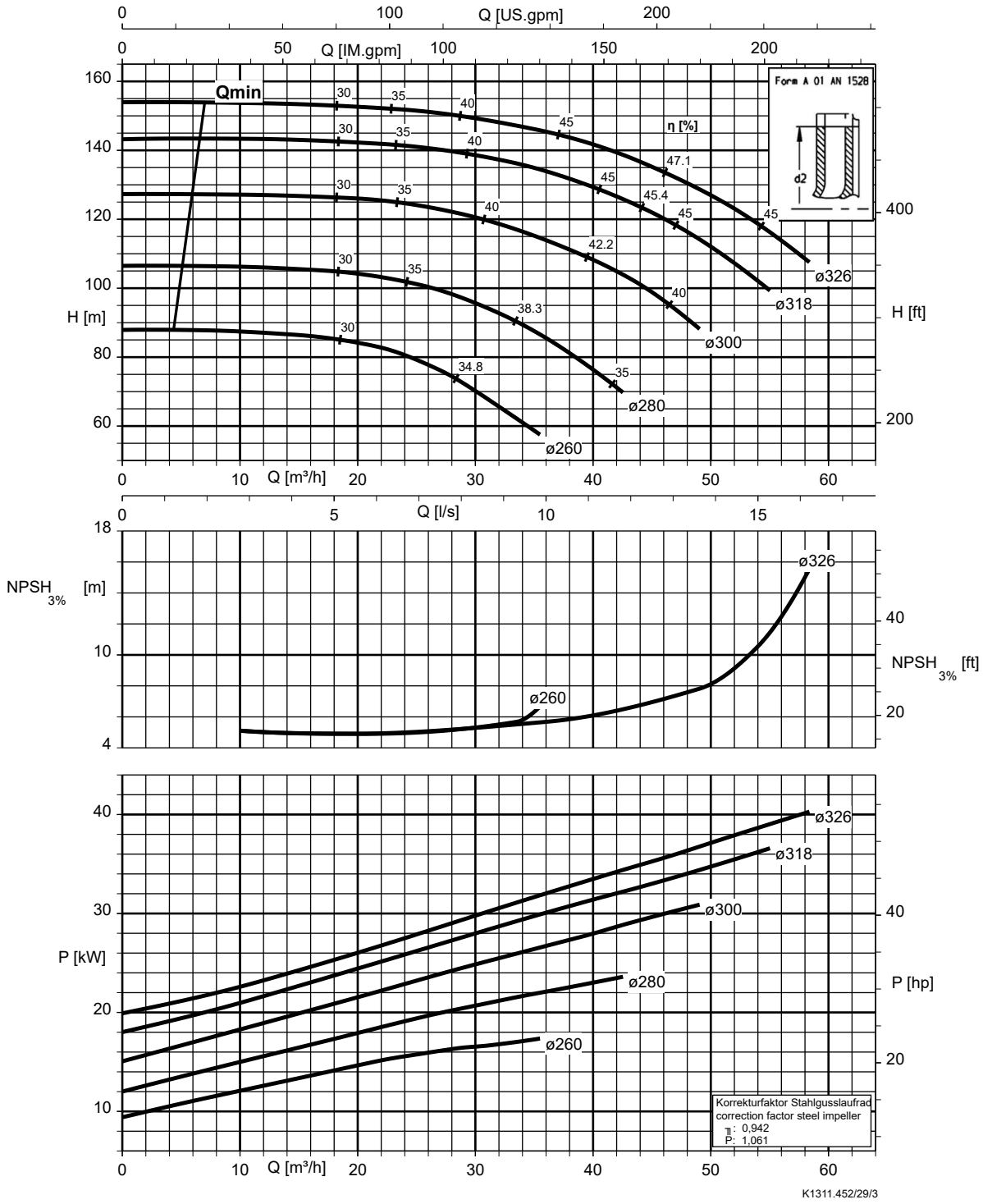
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 065-040-315, n = 2900 t/min

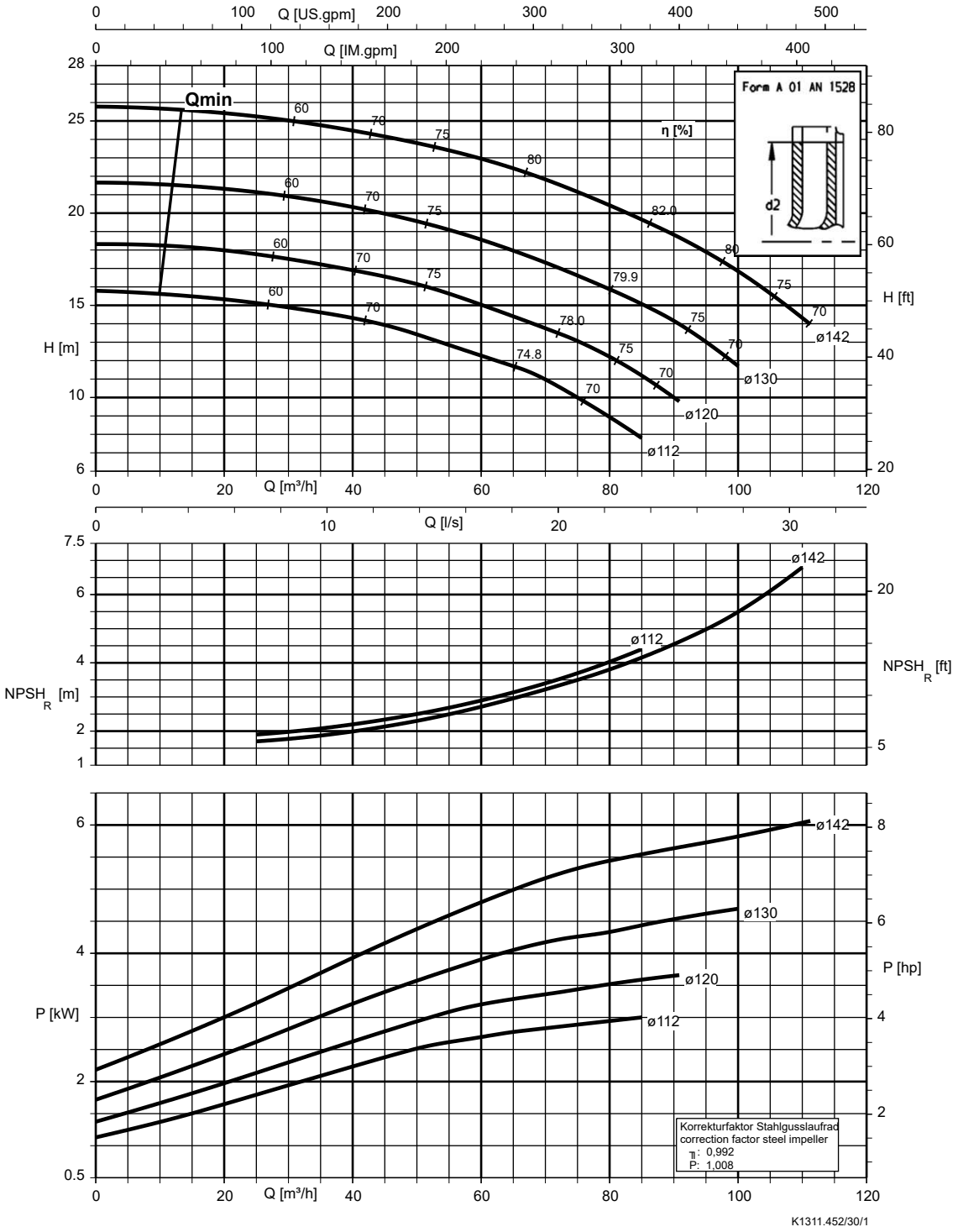
Etabloc



1311.45/12-FR

Etanorm 065-050-125, n = 2 900 t/min

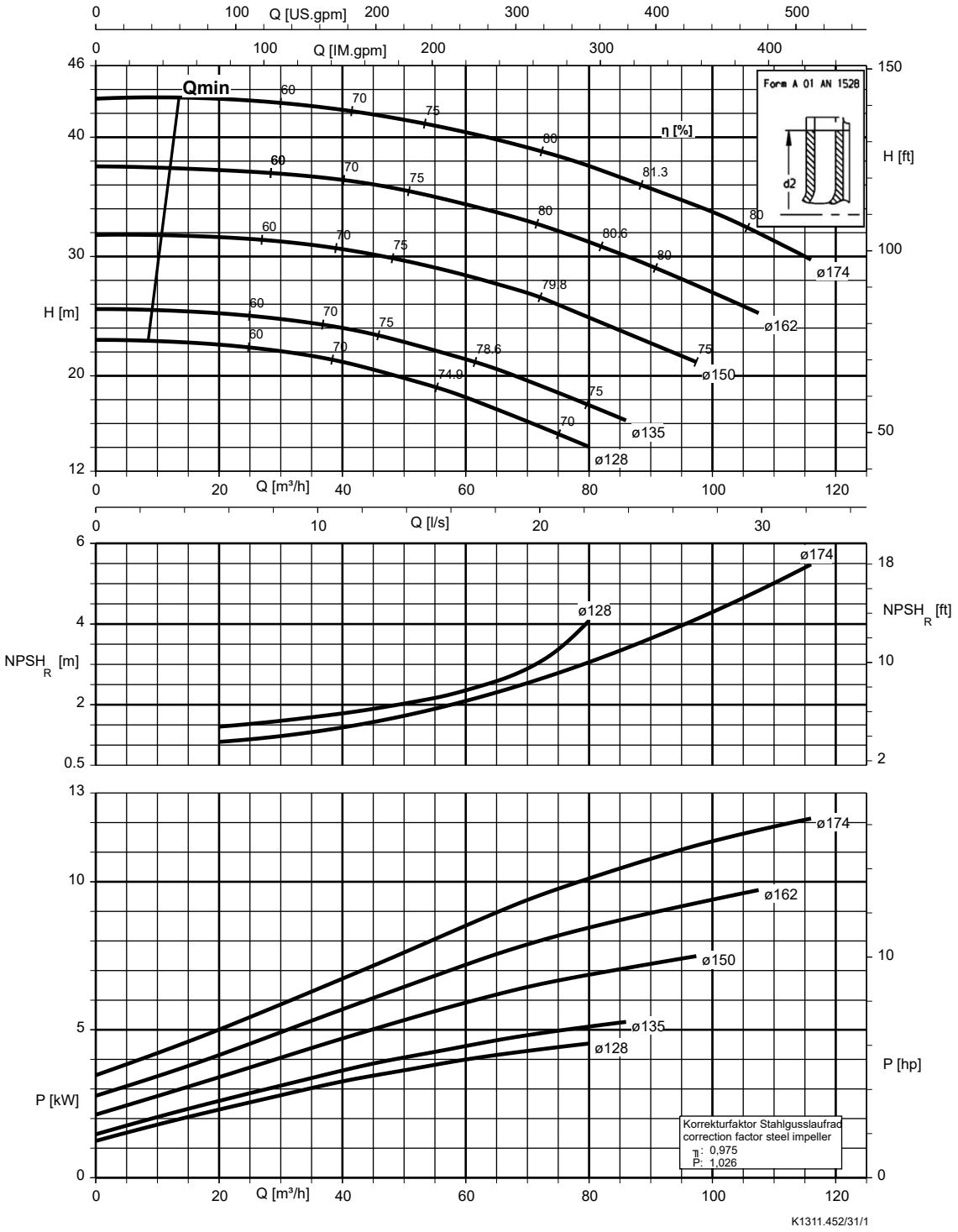
Etanorm V, Etabloc



1311.45/12-FR

Etanorm 065-050-160, n = 2 900 t/min

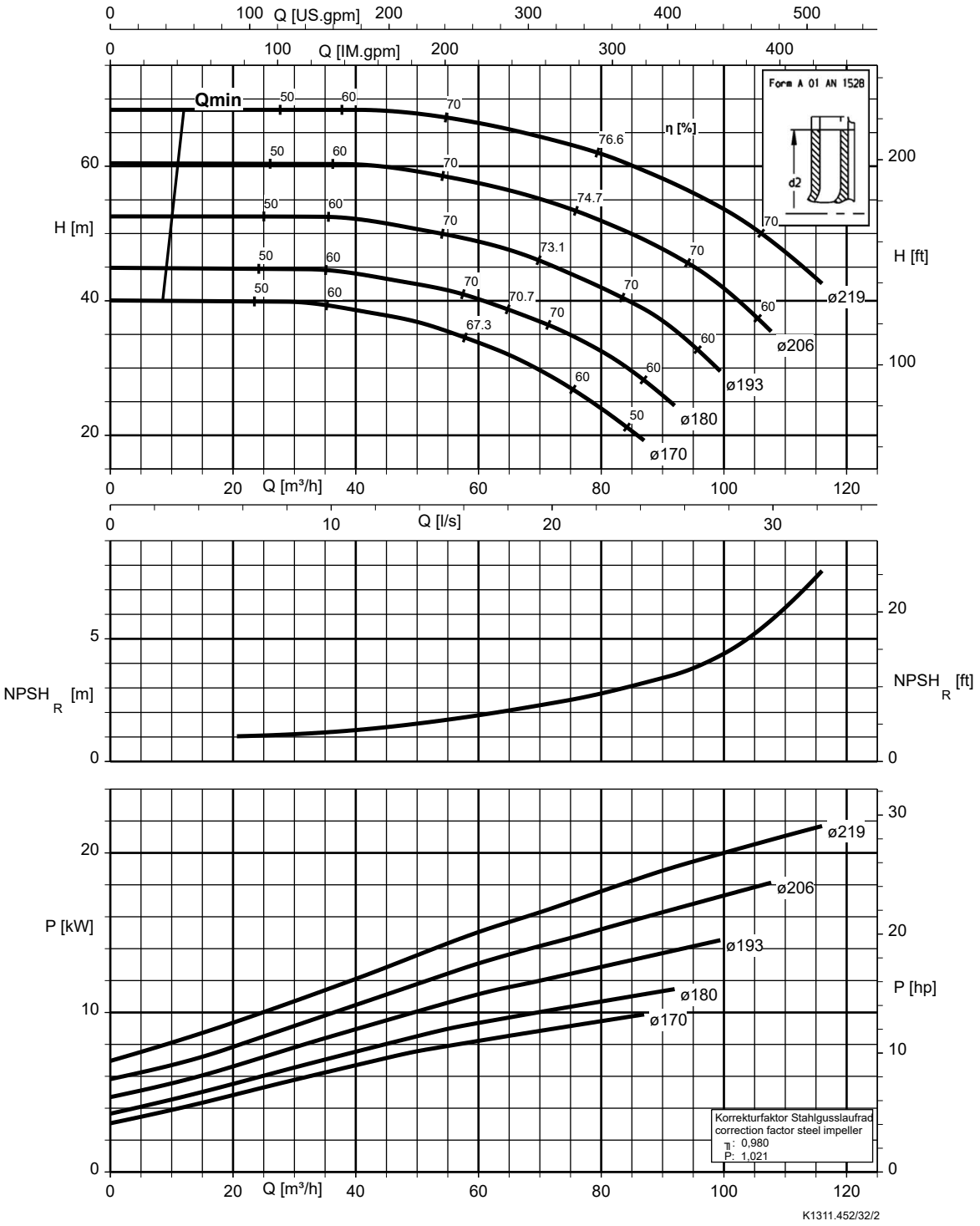
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

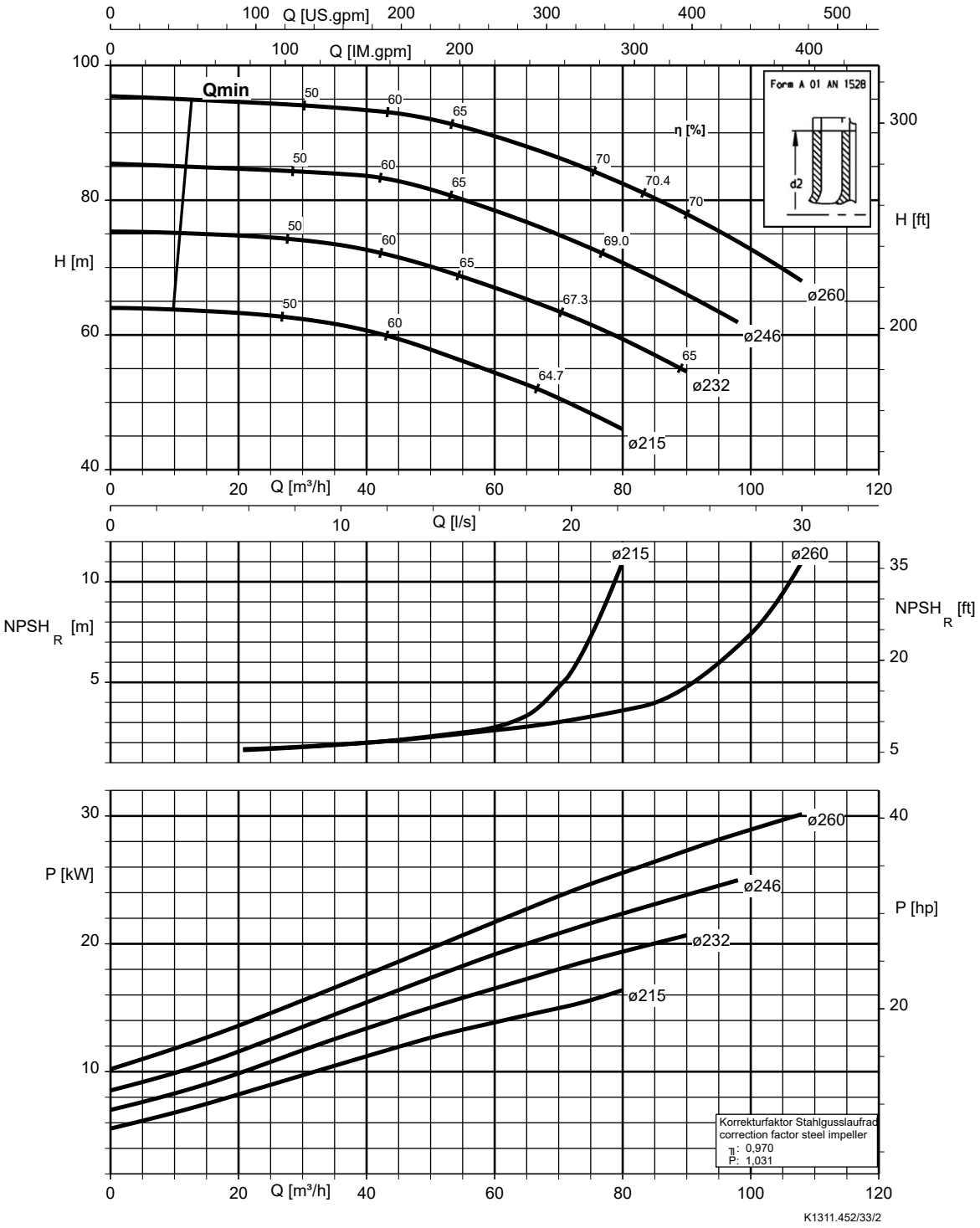
Etanorm 065-050-200, n = 2 900 t/min

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 065-050-250, n = 2 900 t/min

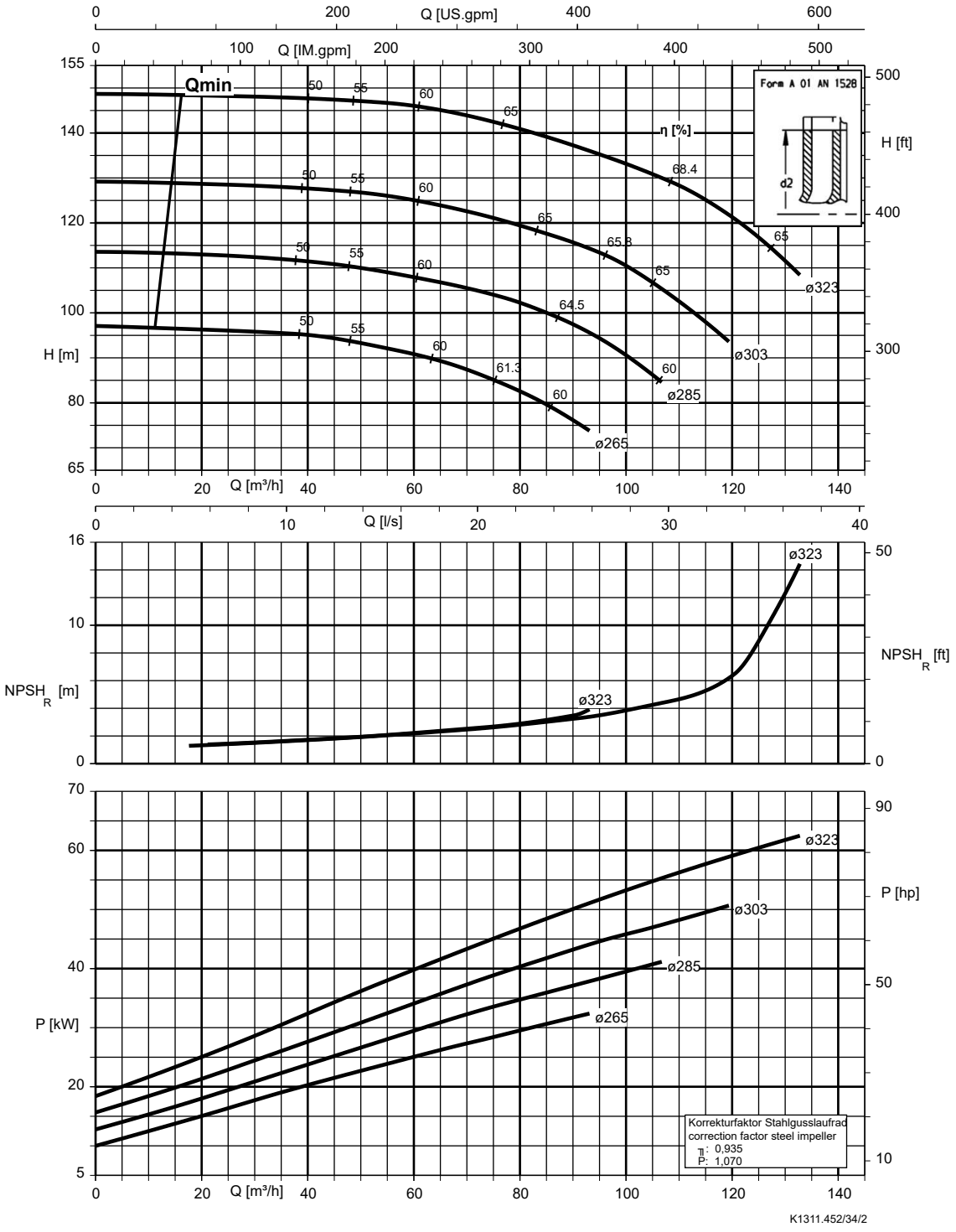
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 065-050-315, n = 2900 t/min

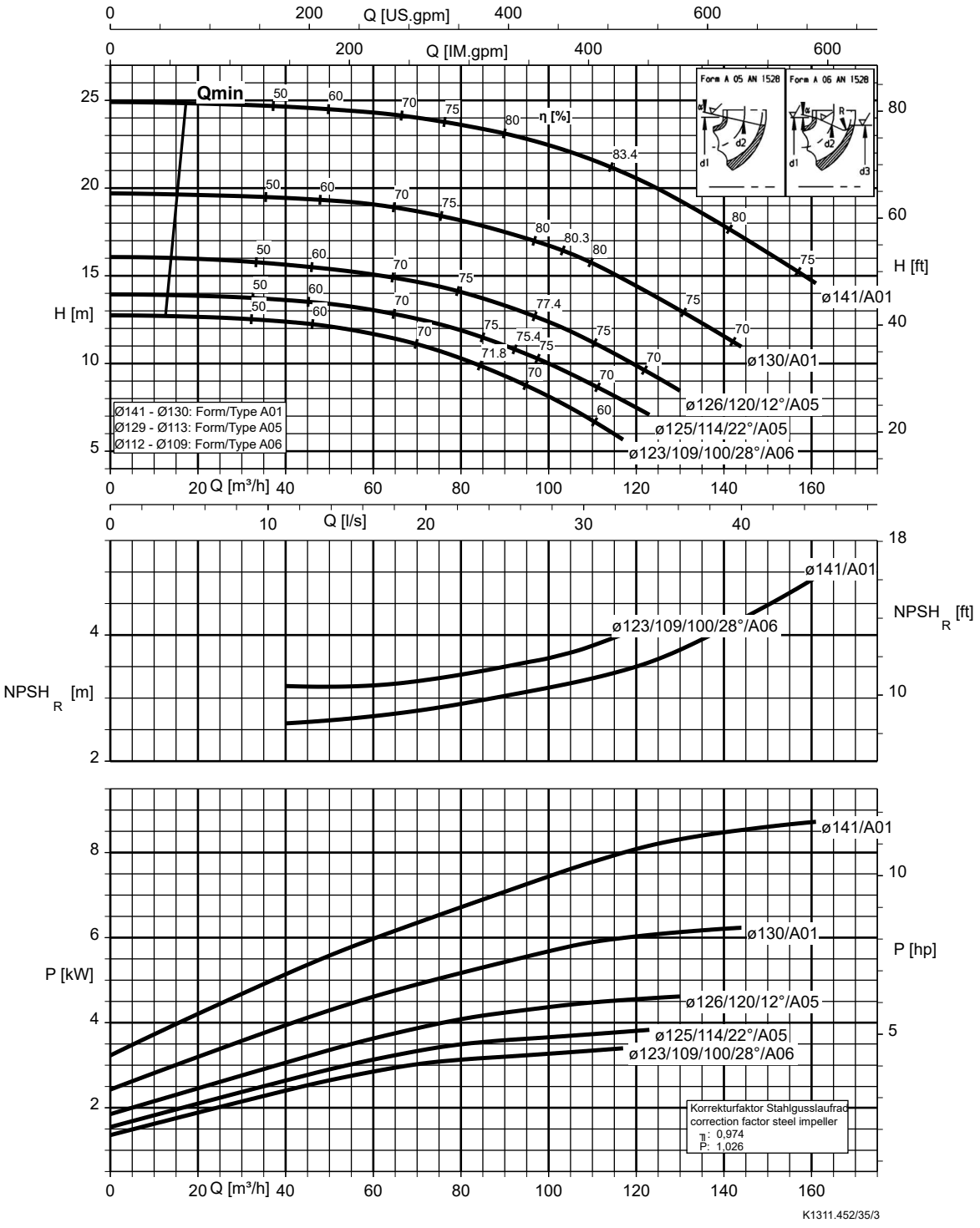
Etabloc



1311.45/12-FR

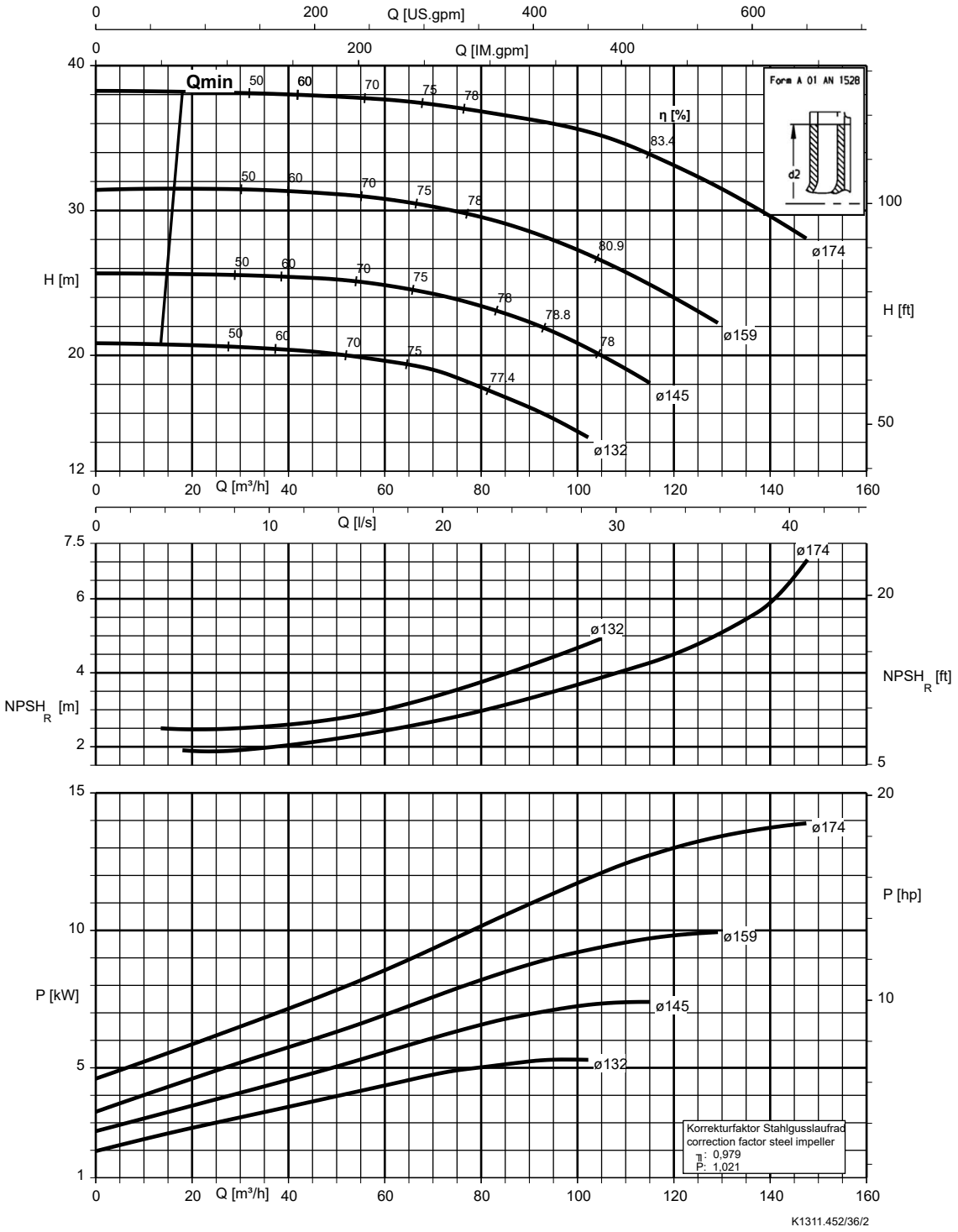
Etanorm 080-065-125, n = 2 900 t/min

Etanorm V, Etabloc



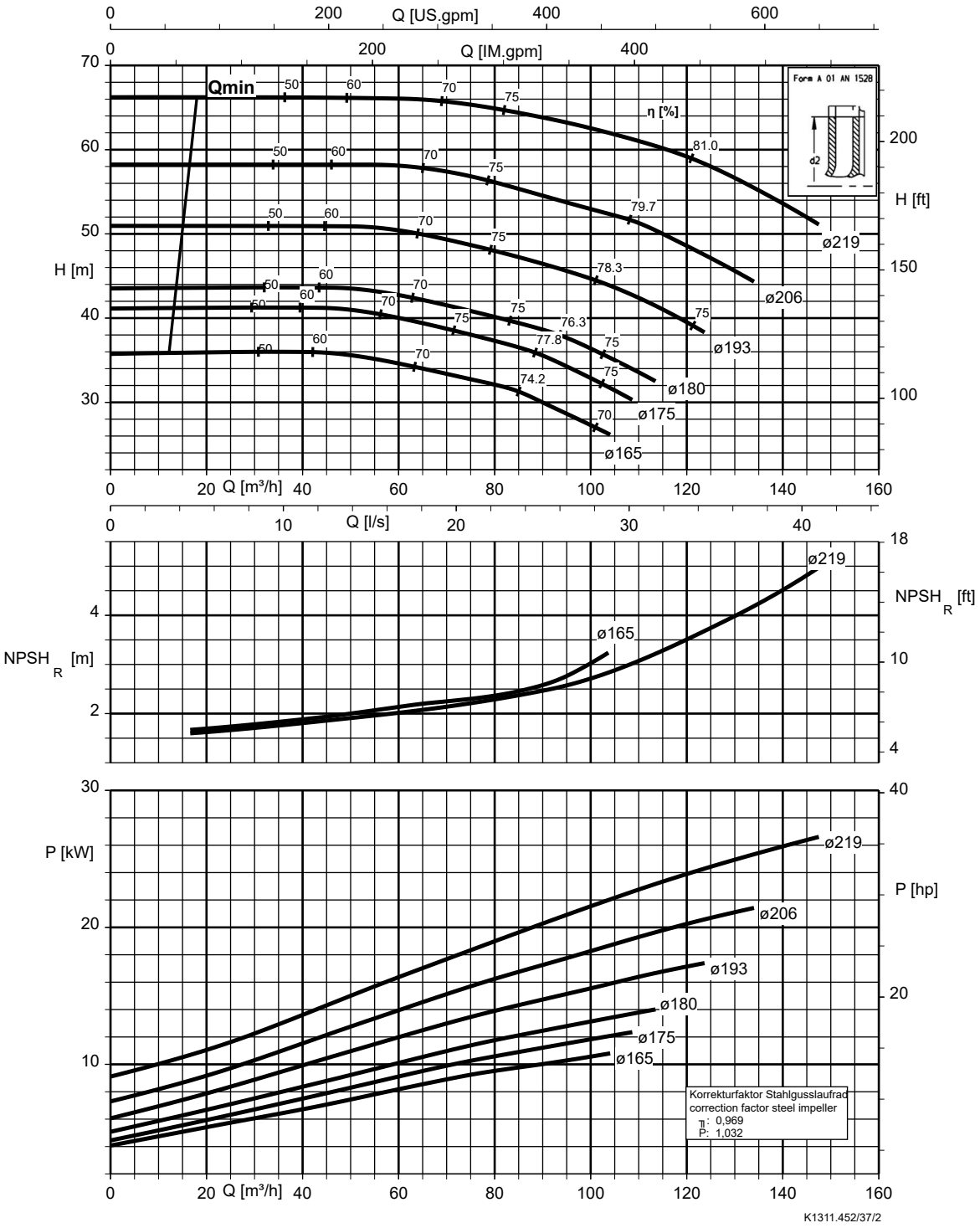
Etanorm 080-065-160, n = 2 900 t/min

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 080-065-200, n = 2 900 t/min

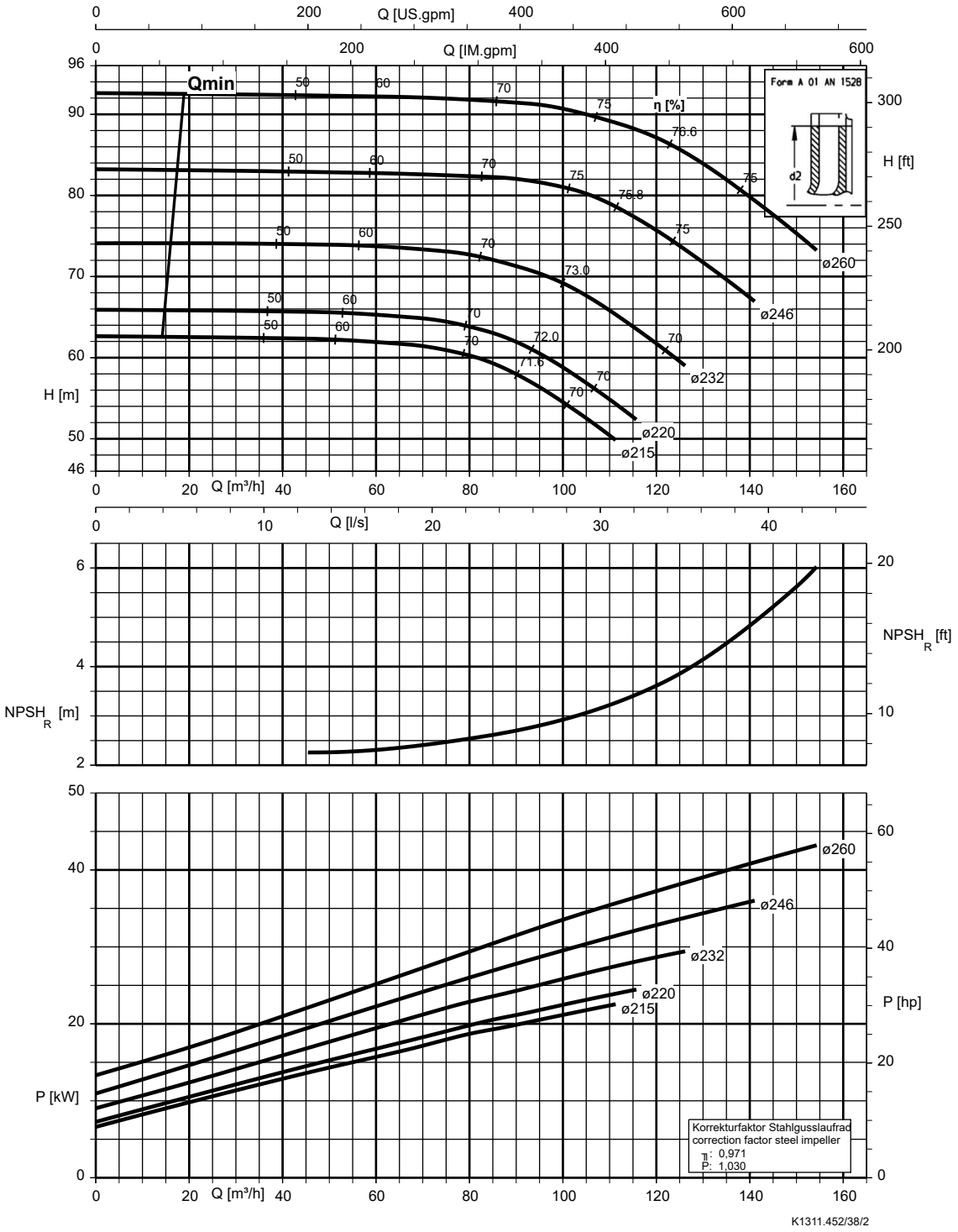
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

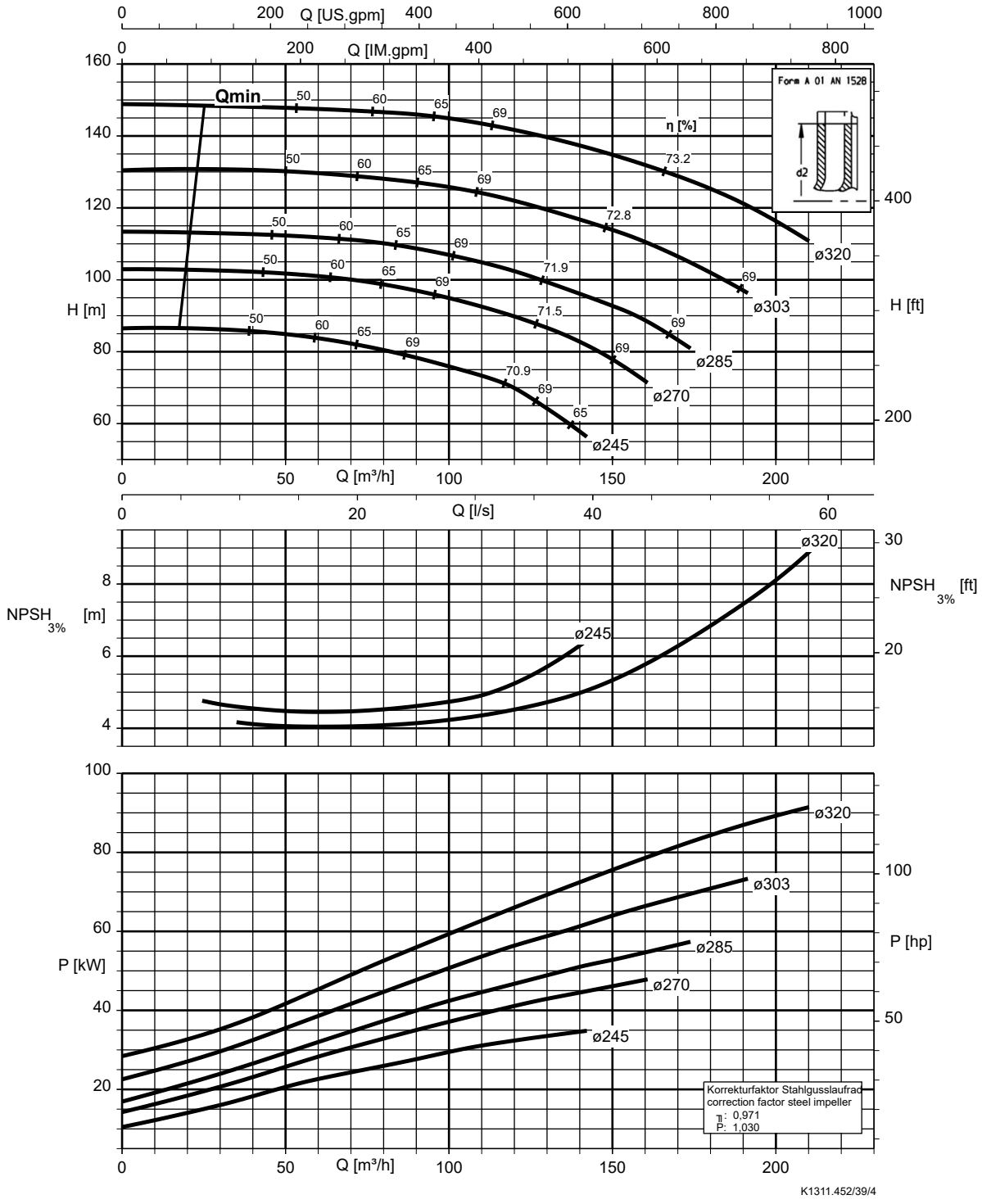
Etanorm 080-065-250, n = 2 900 t/min

Etanorm SYT, Etanorm V, Etabloc



Etanorm 080-065-315, n = 2900 t/min

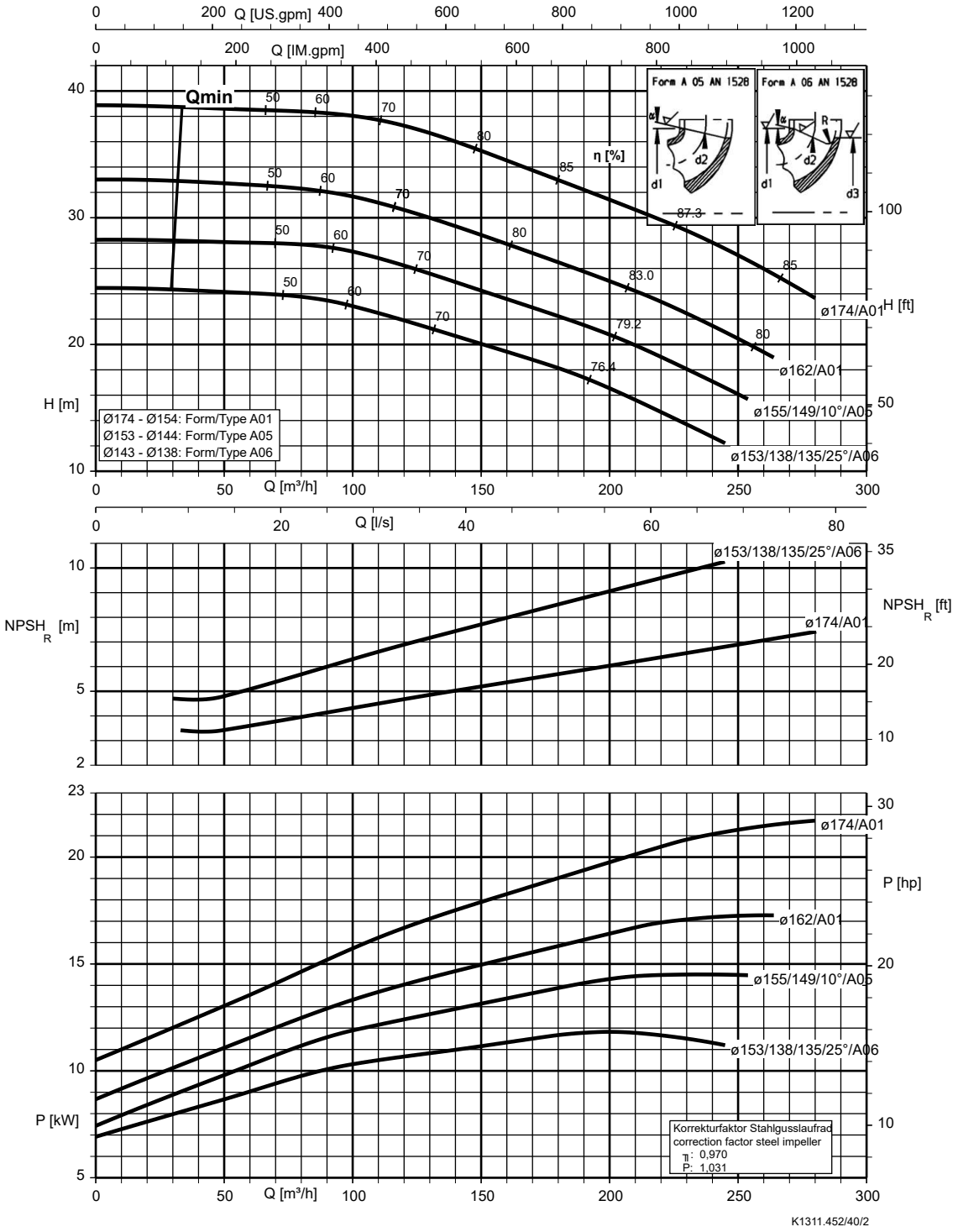
Etabloc



1311.45/12-FR

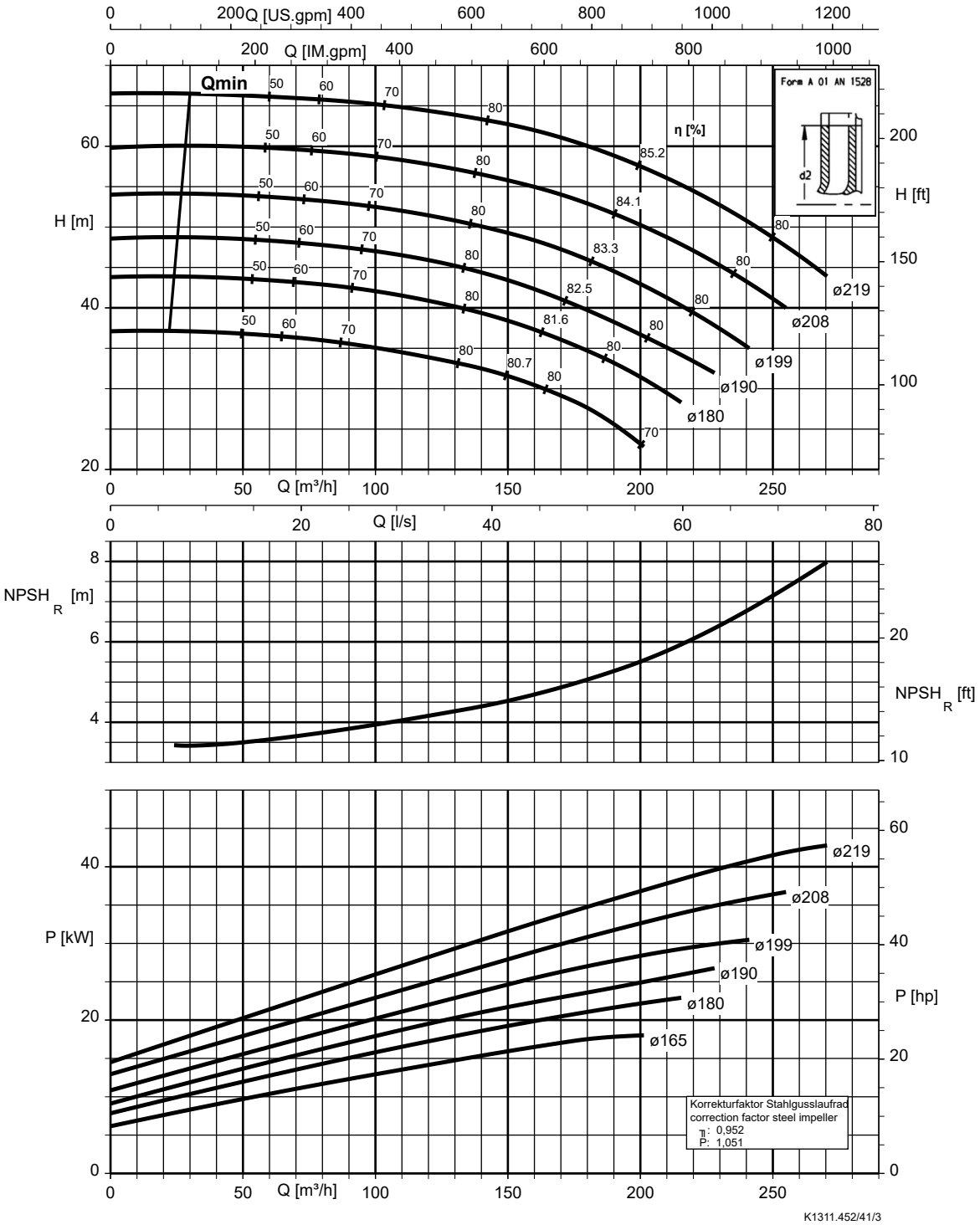
Etanorm 100-080-160, n = 2 900 t/min

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 100-080-200, n = 2 900 t/min

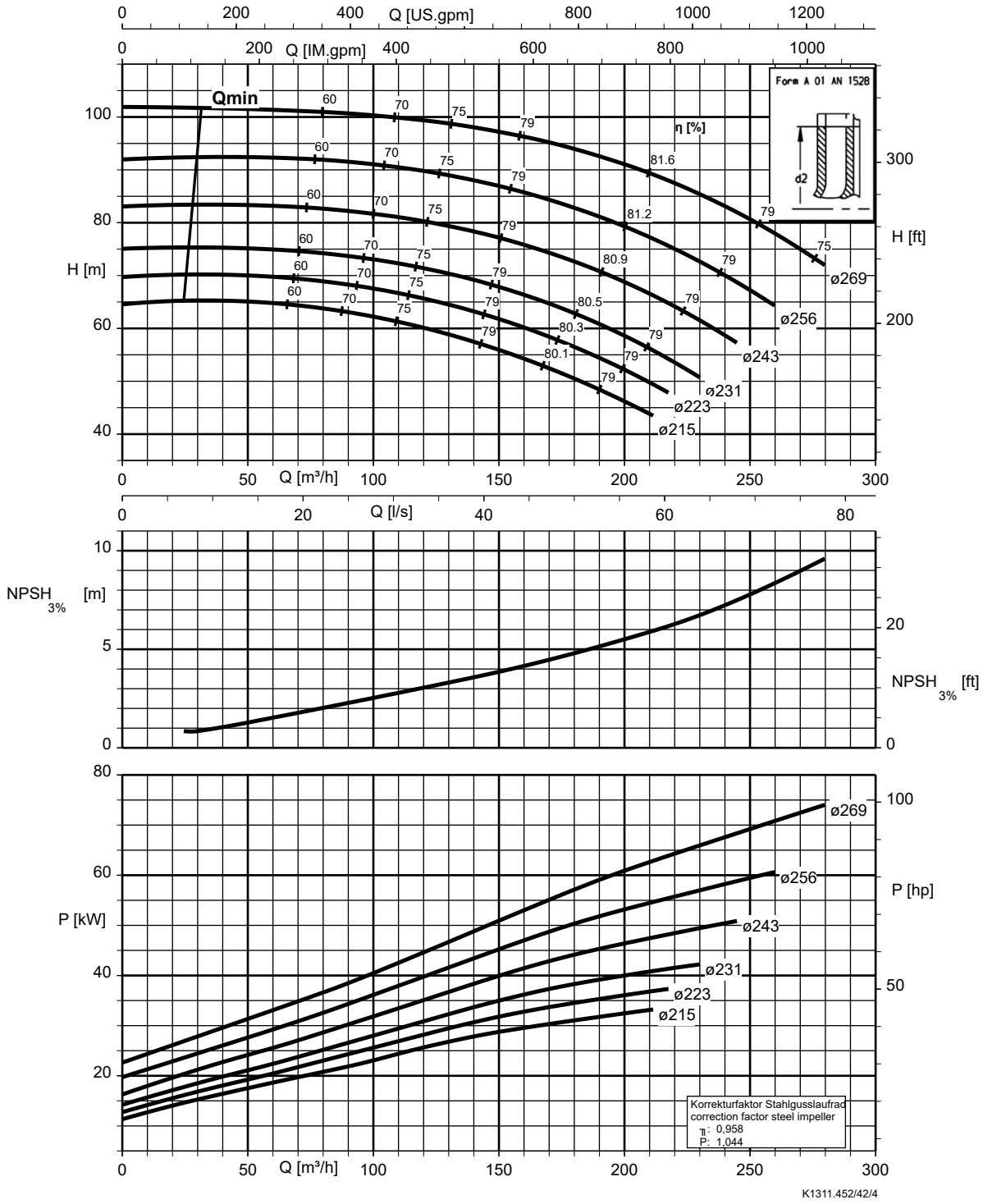
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 100-080-250, n = 2 900 t/min

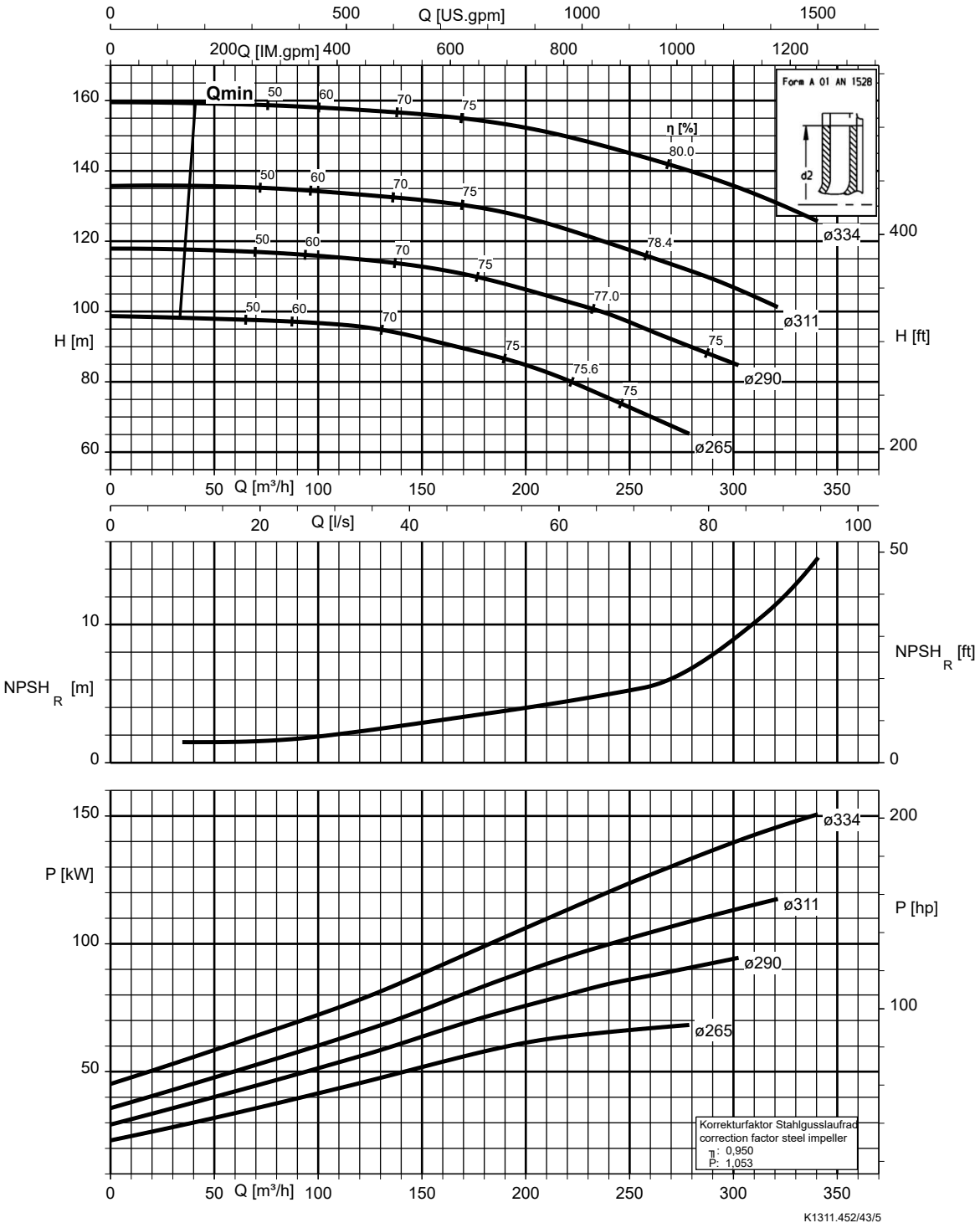
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 100-080-315, n = 2900 t/min

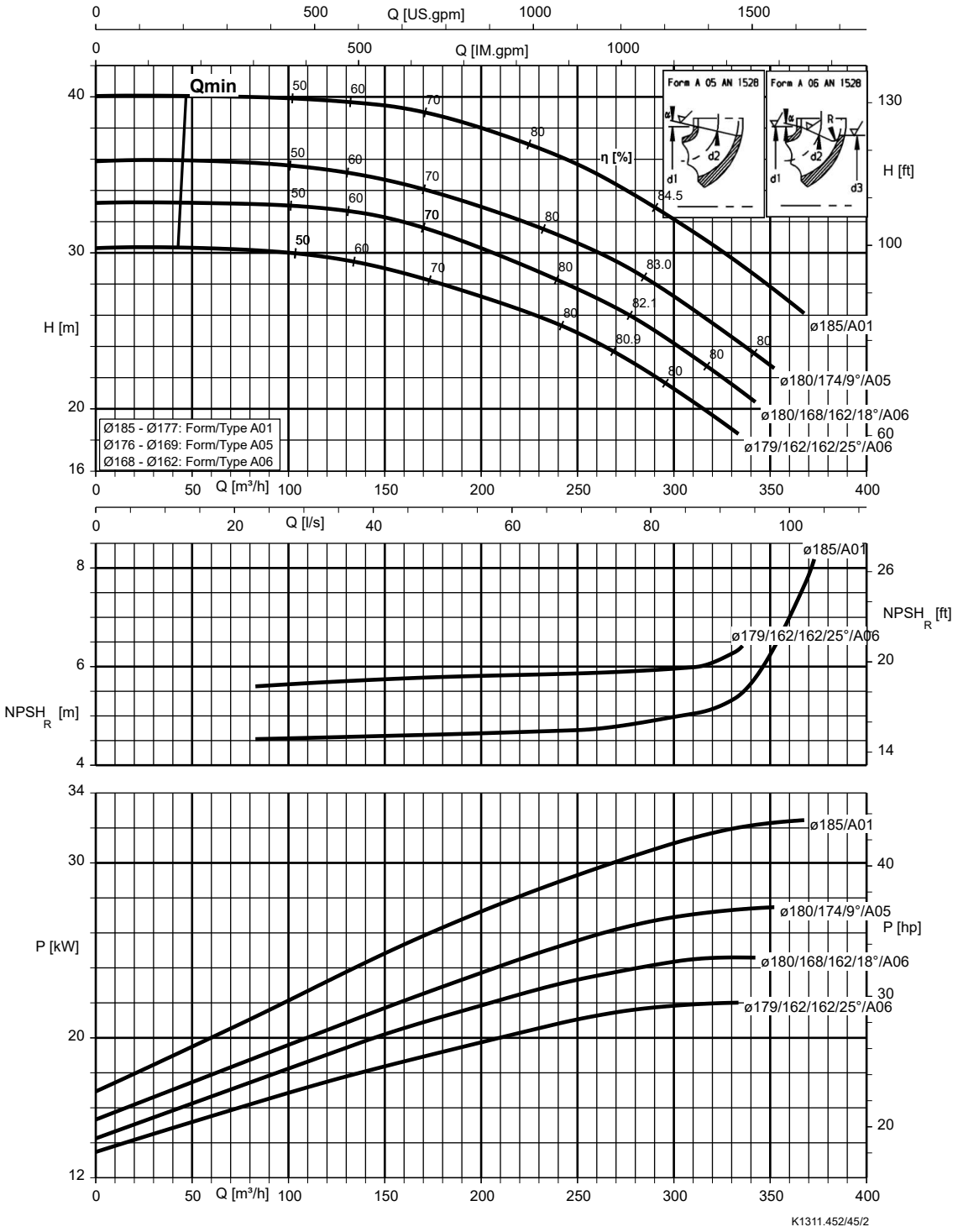
Etabloc



1311.45/12-FR

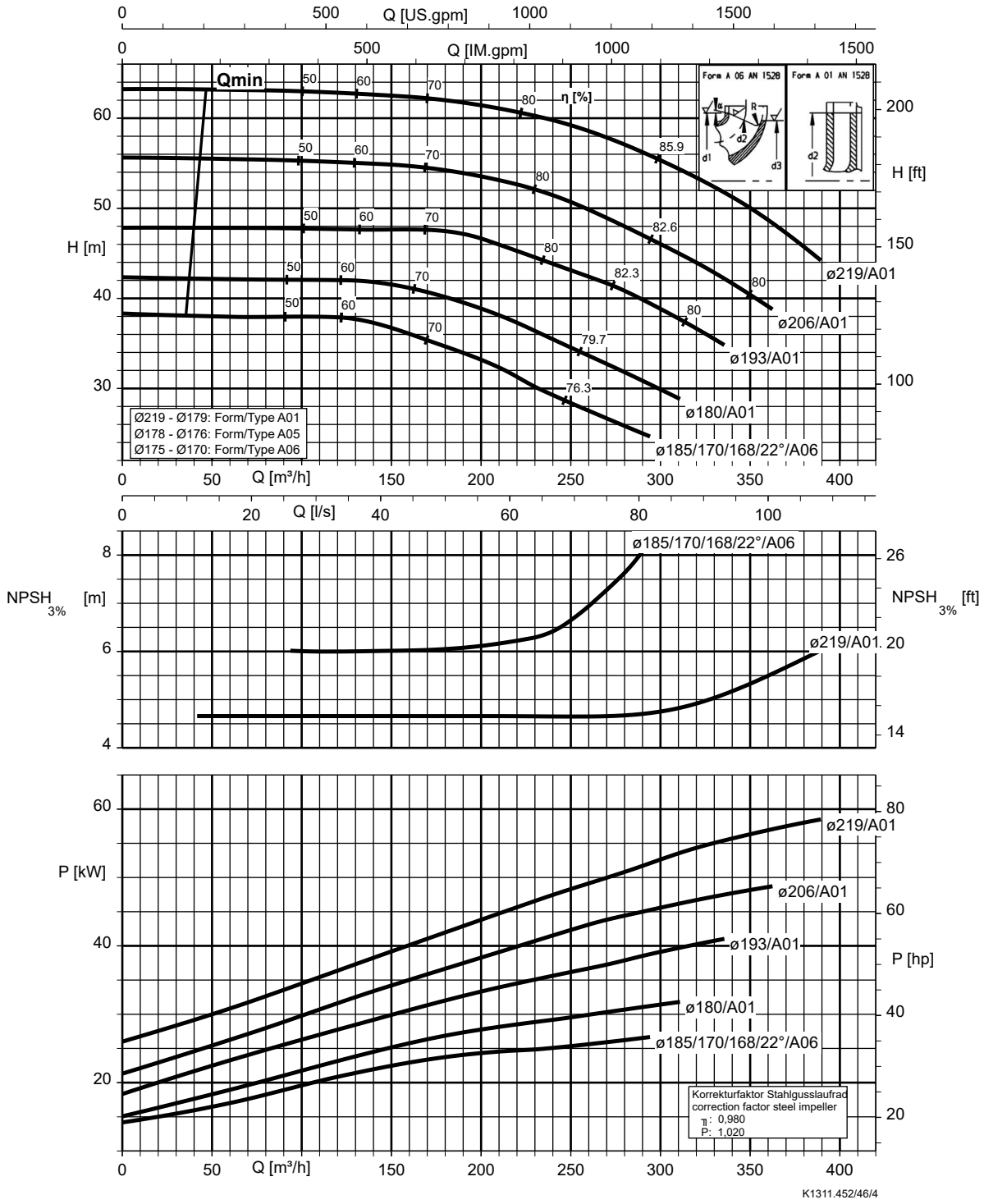
Etanorm 125-100-160, n = 2 900 t/min

Etanorm SYT, Etanorm V, Etabloc



Etanorm 125-100-200, n = 2 900 t/min

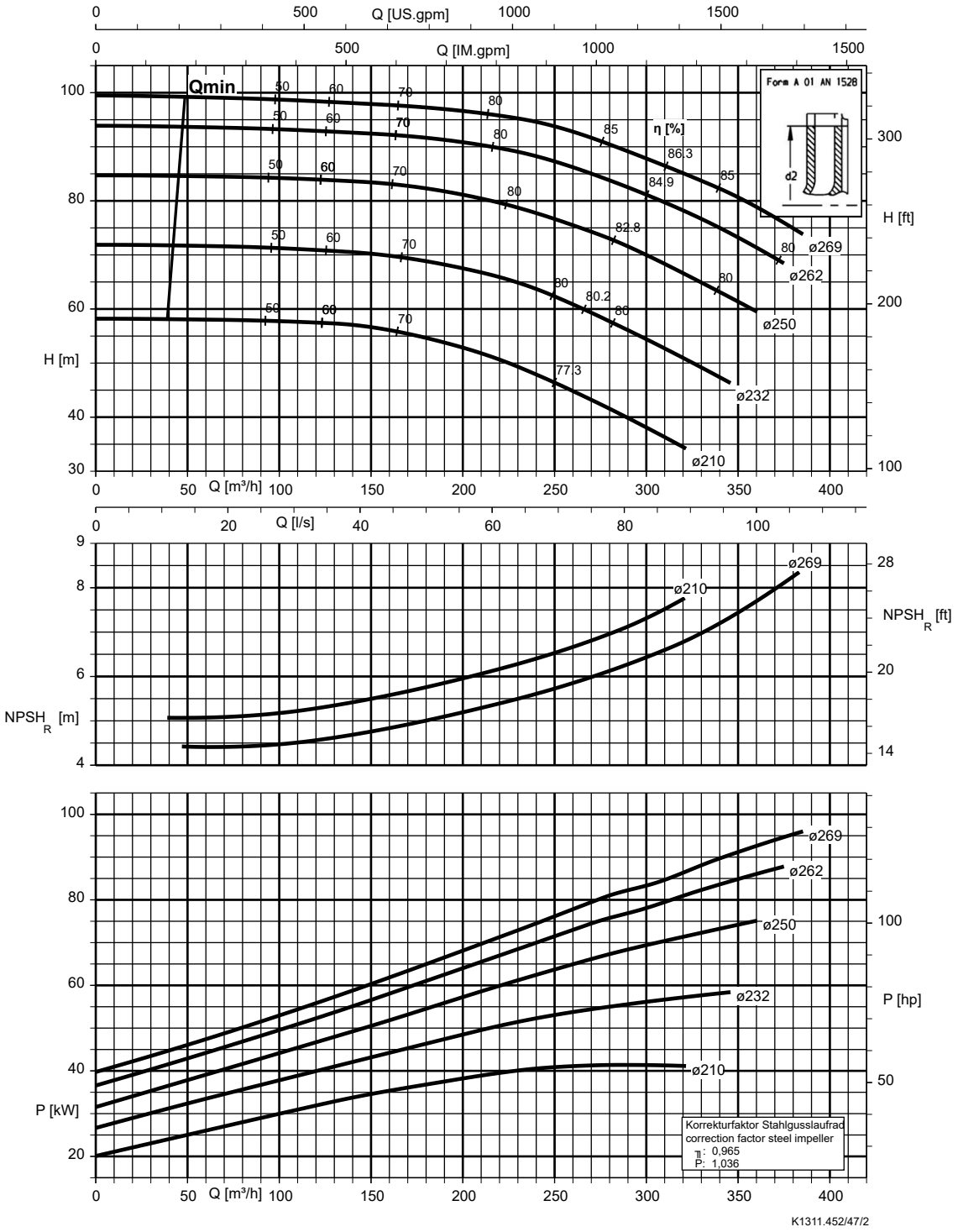
Etanorm SYT, Etanorm V, Etabloc



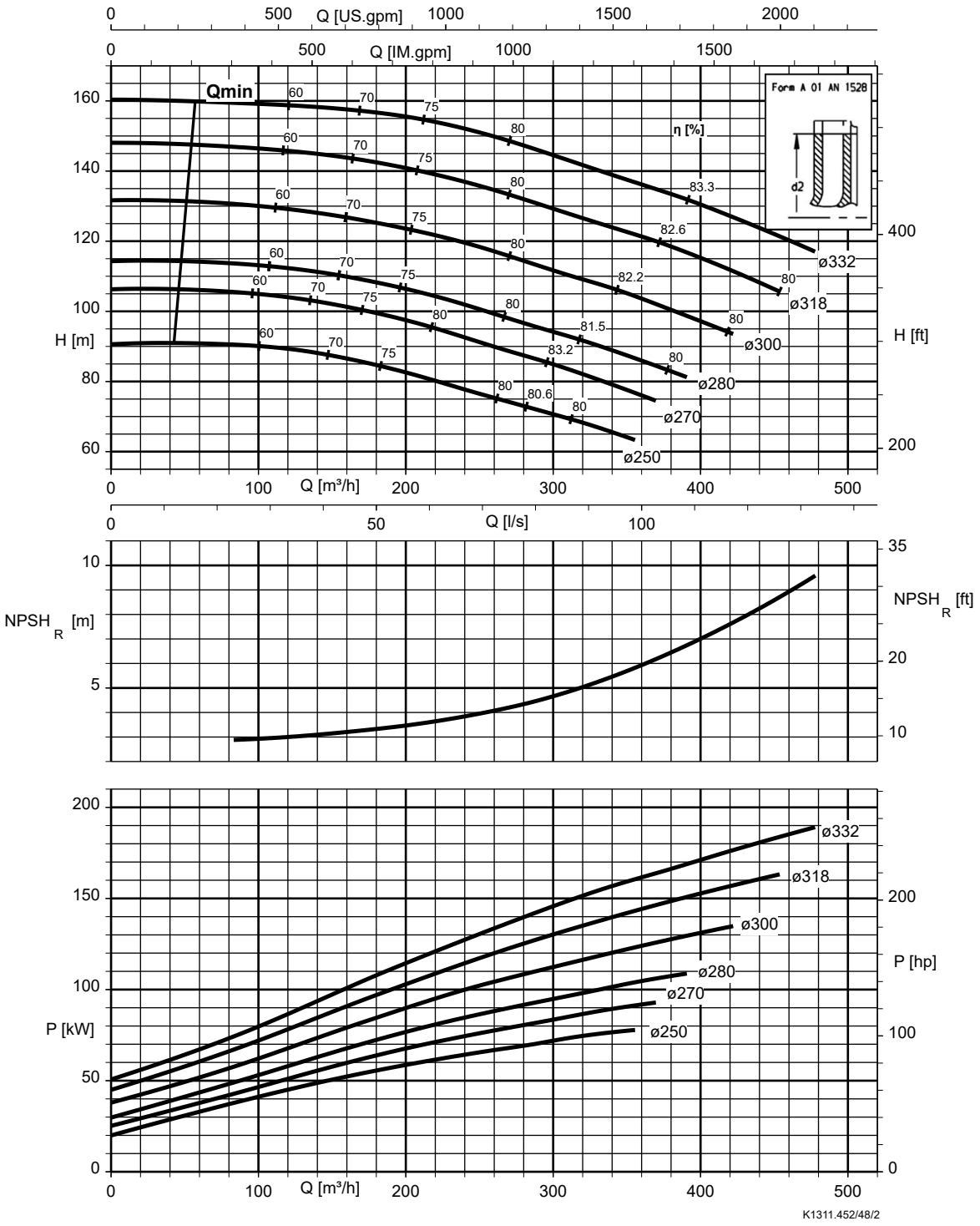
1311.45/12-FR

Etanorm 125-100-250, n = 2900 t/min

Etanorm SYT, Etanorm V, Etabloc



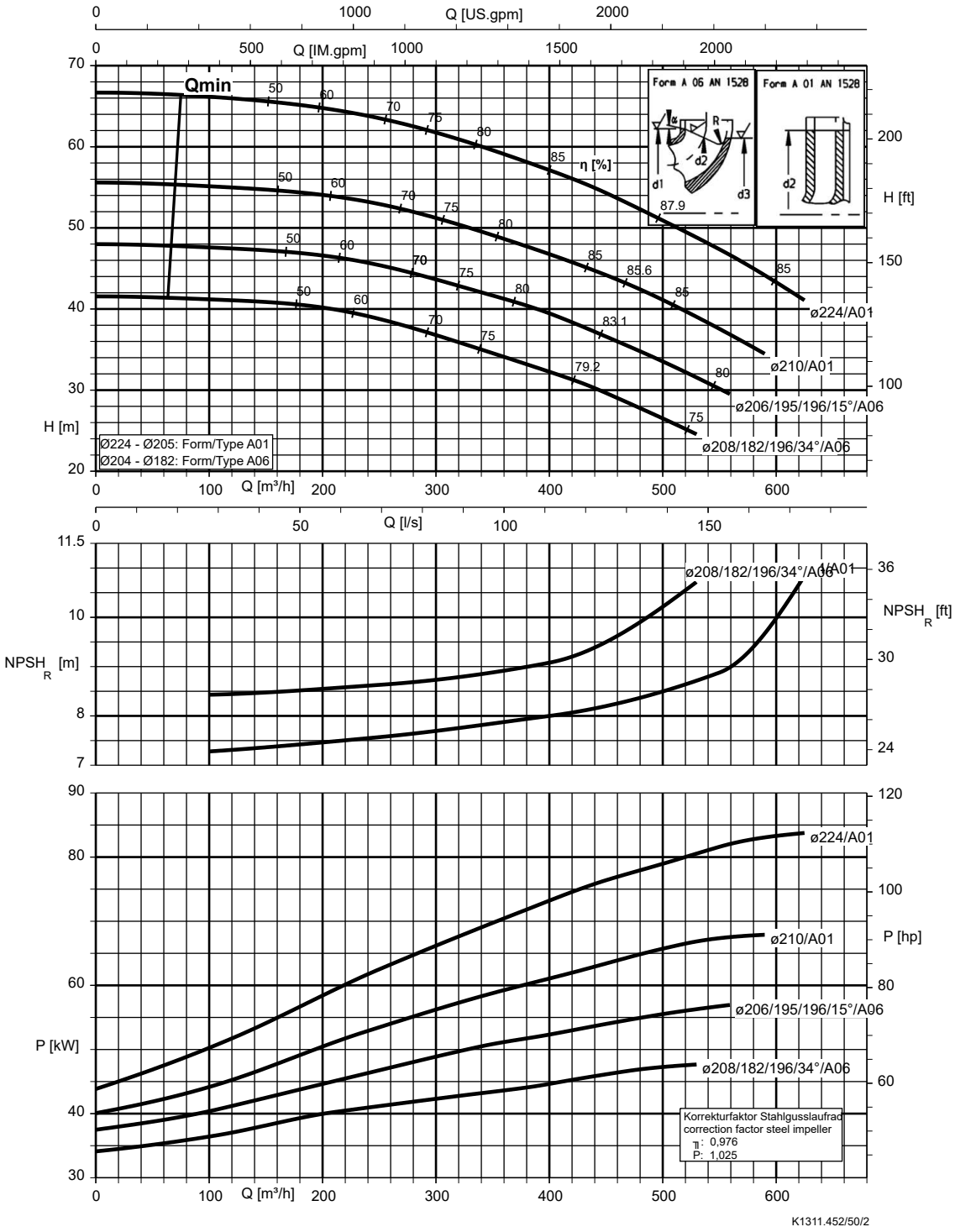
Etanorm 125-100-315, n = 2900 t/min



1311.45/12-FR

Etanorm 150-125-200, n = 2900 t/min

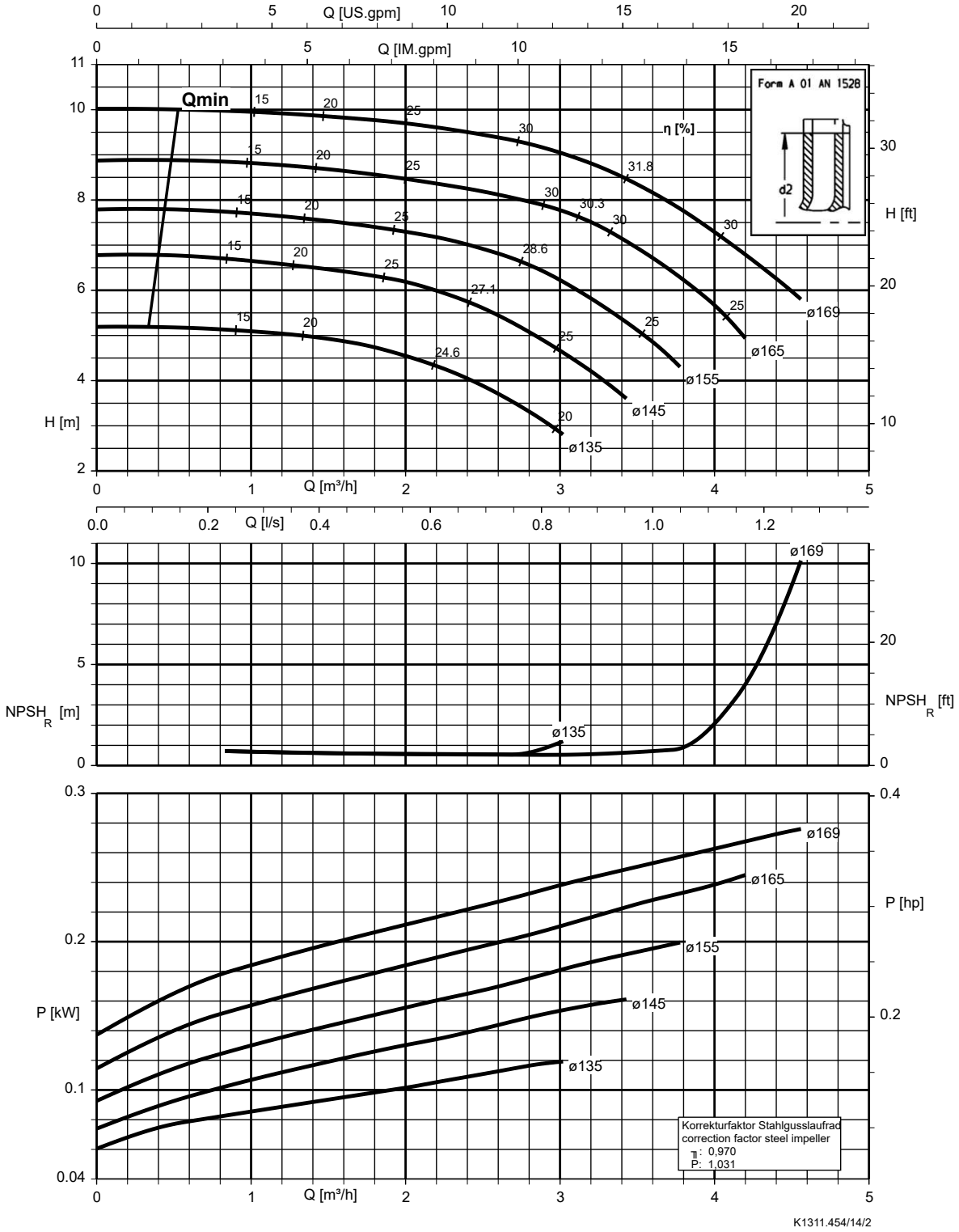
Etanorm SYT, Etanorm V, Etabloc



n = 1450 t/min

Etanorm 040-025-160, n = 1 450 t/min

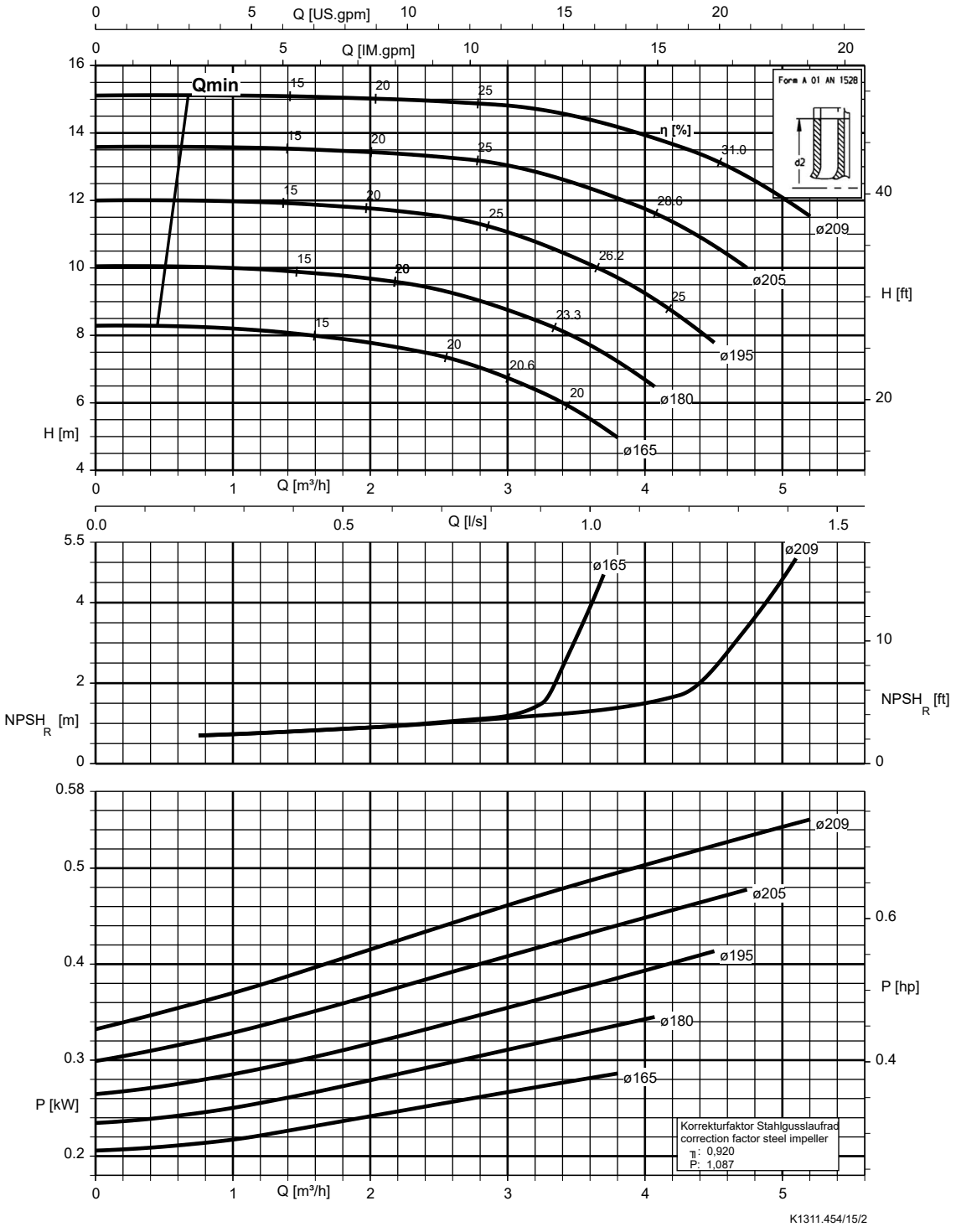
Etanorm SYT, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 040-025-200, n = 1 450 t/min

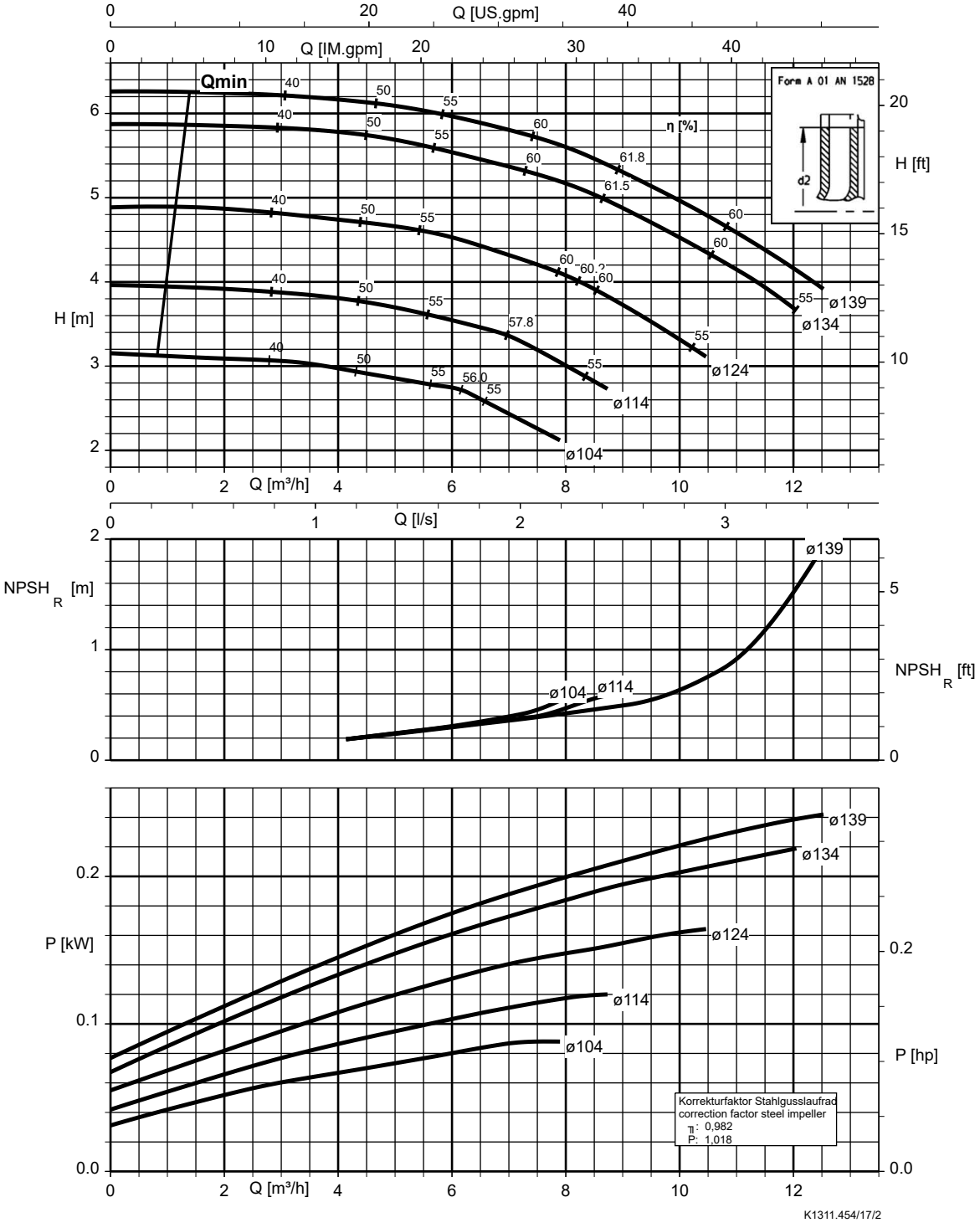
Etanorm SYT, Etabloc, Etabloc SYT



1311.45/12-FR

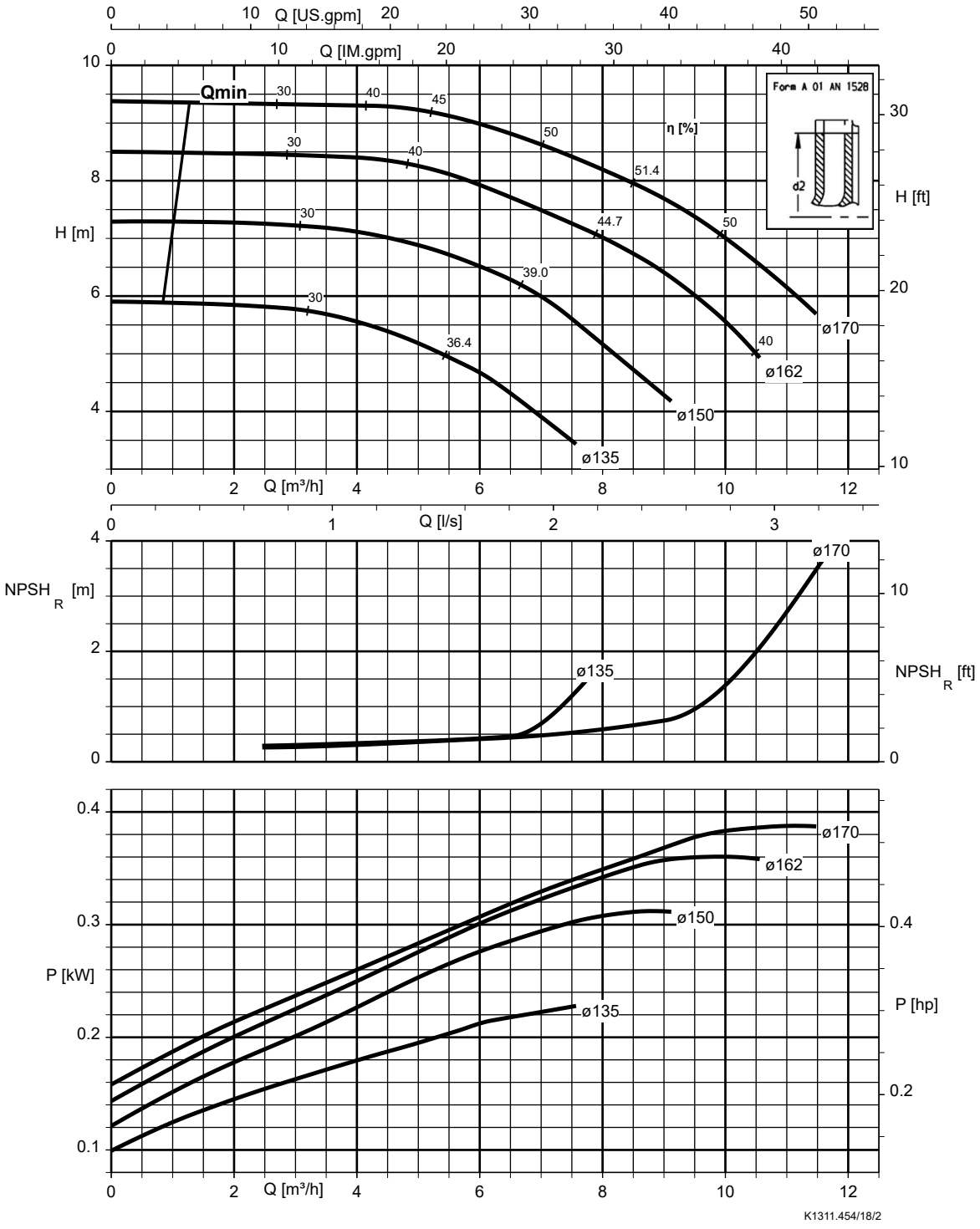
Etanorm 050-032-125.1, n = 1 450 t/min

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 050-032-160.1, n = 1 450 t/min

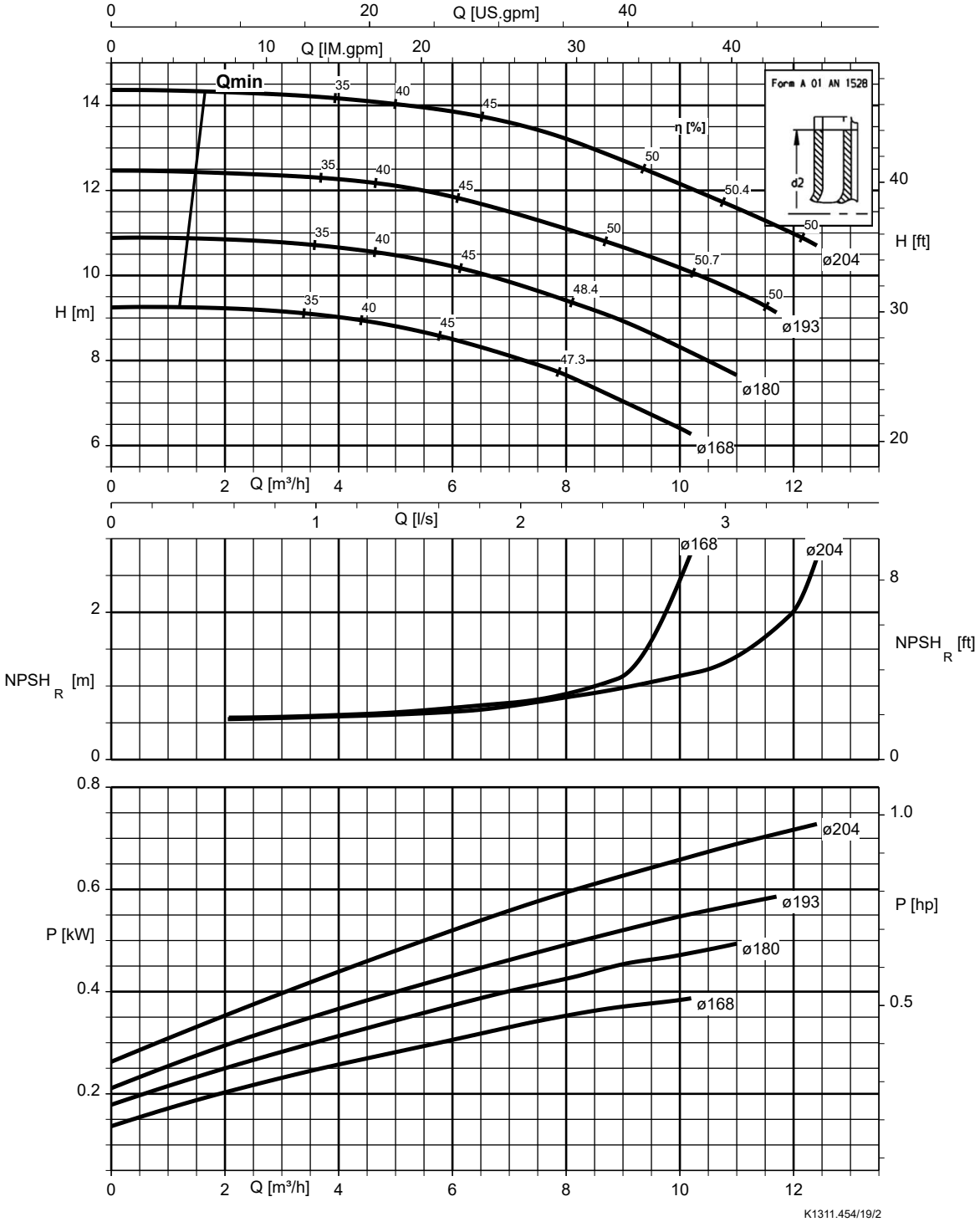
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 050-032-200.1, n = 1 450 t/min

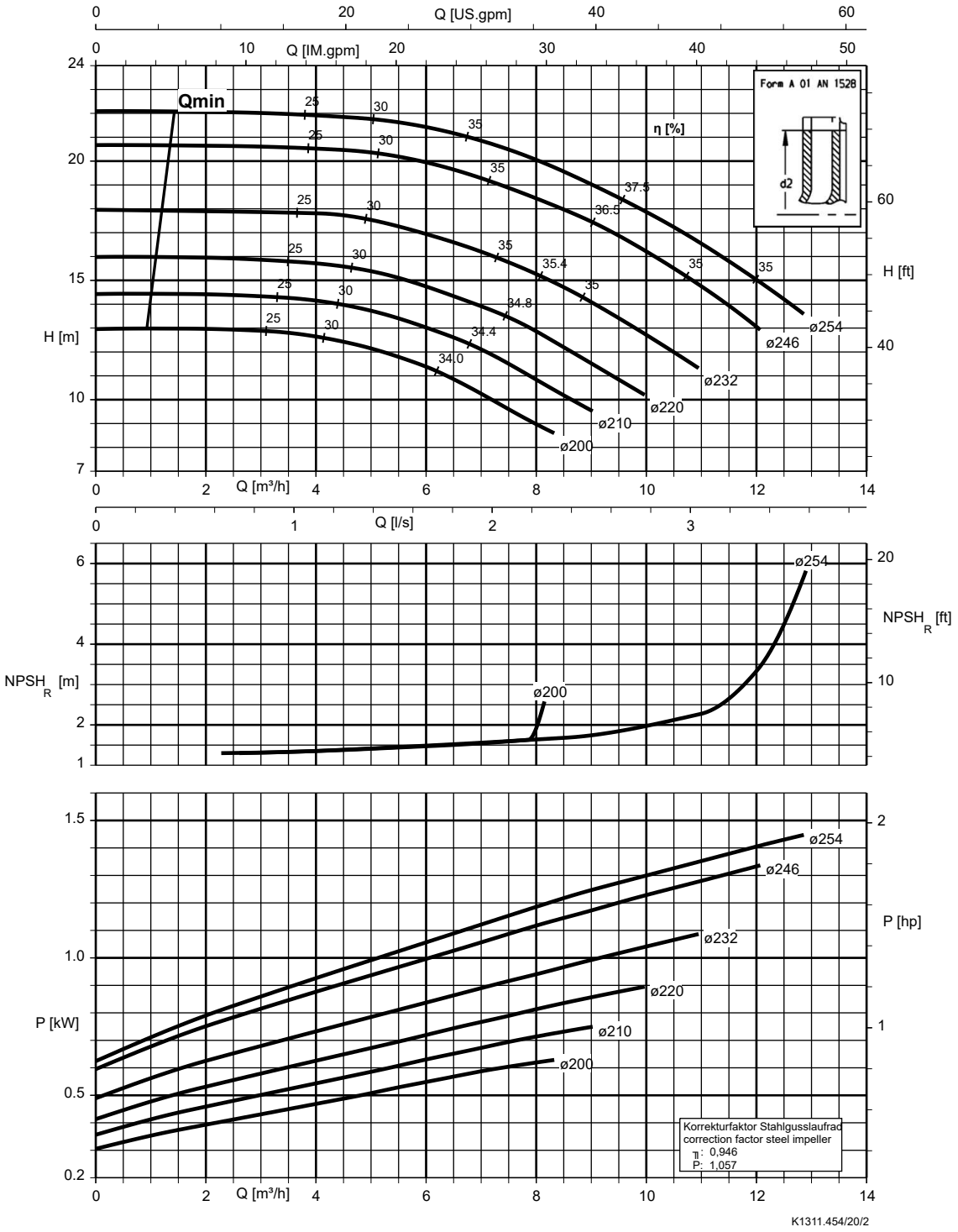
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

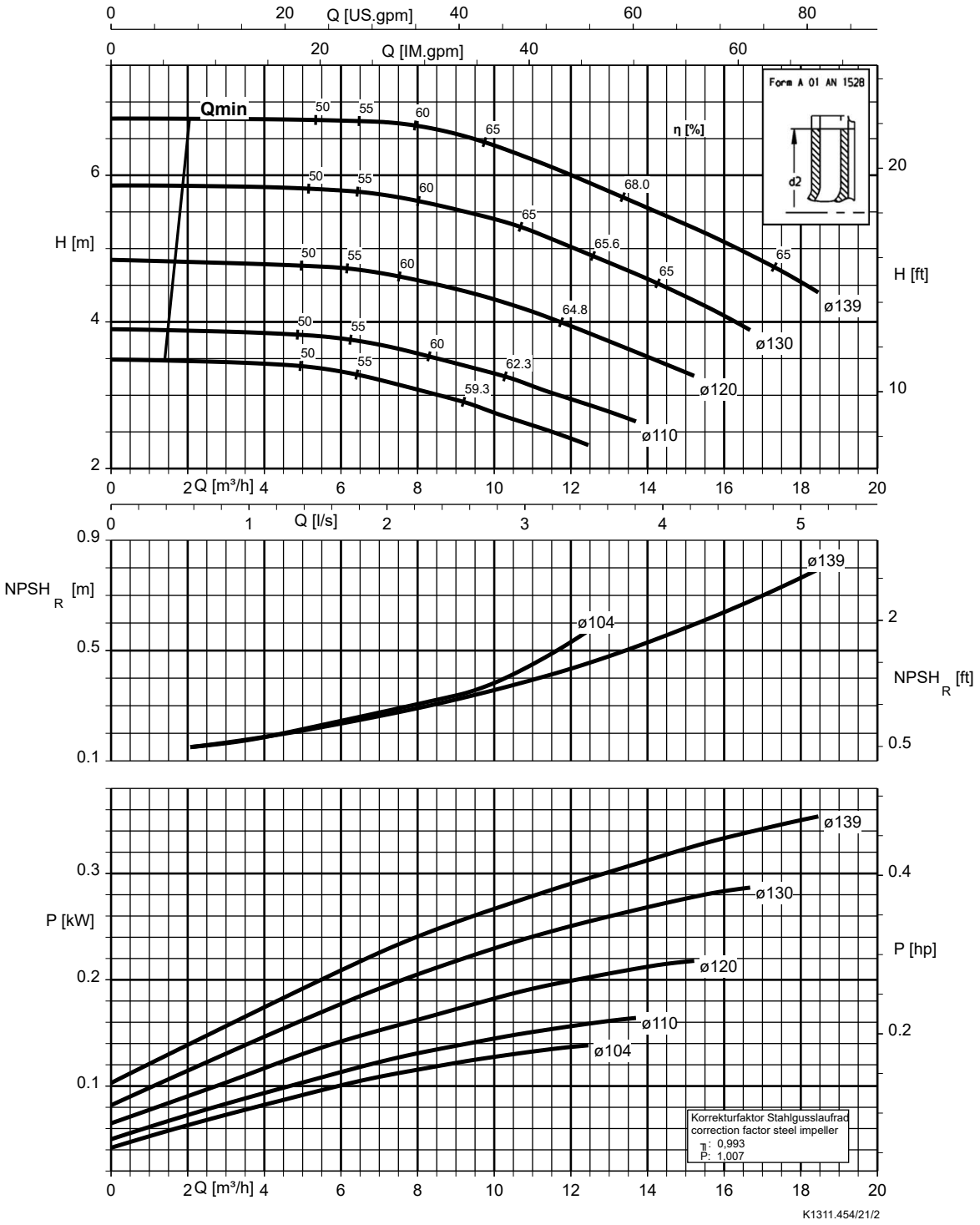
Etanorm 050-032-250.1, n = 1 450 t/min

Etanorm V, Etabloc



Etanorm 050-032-125 , n = 1 450 t/min

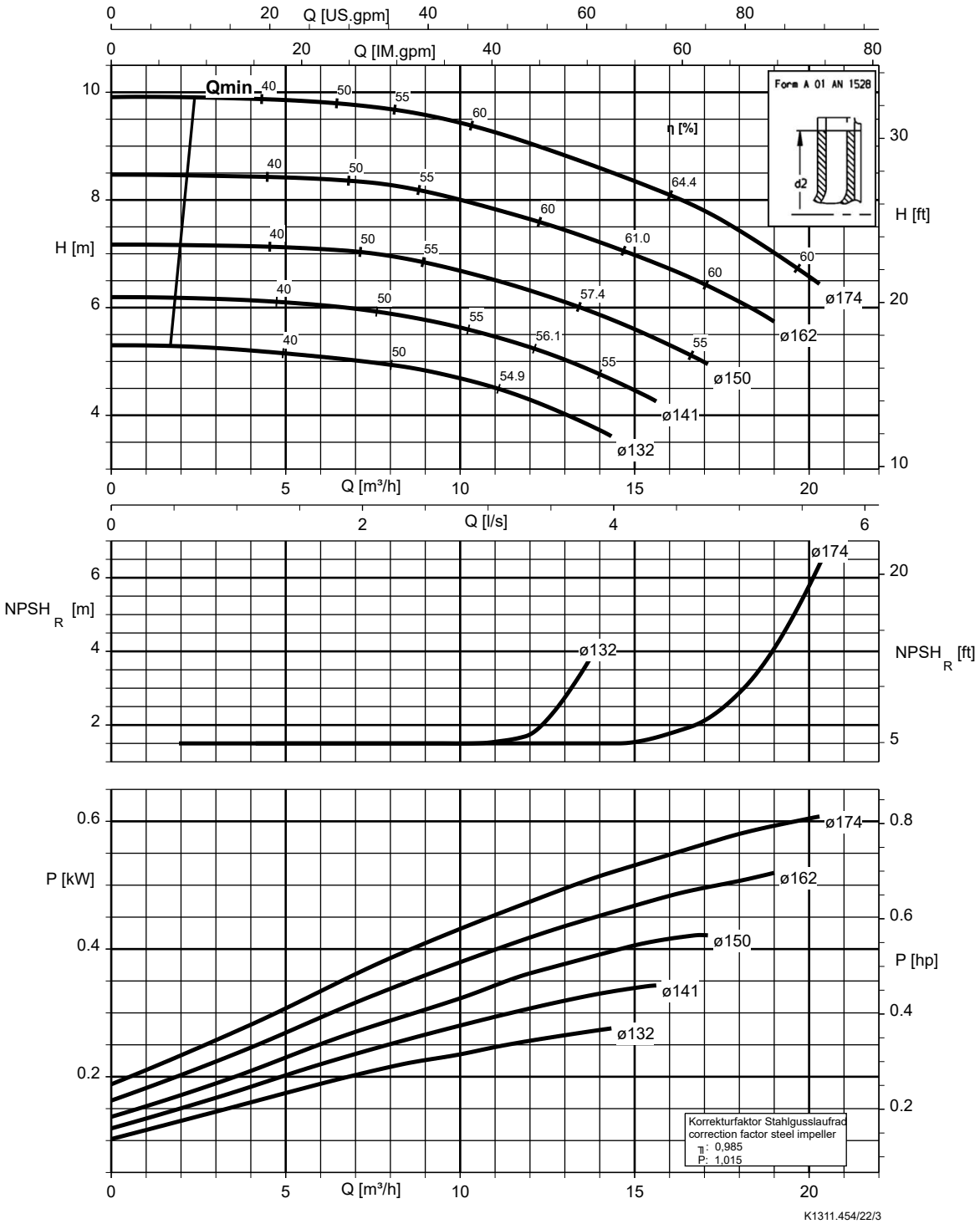
Etanorm V, Etabloc



1311.45/12-FR

Etanorm 050-032-160, n = 1 450 t/min

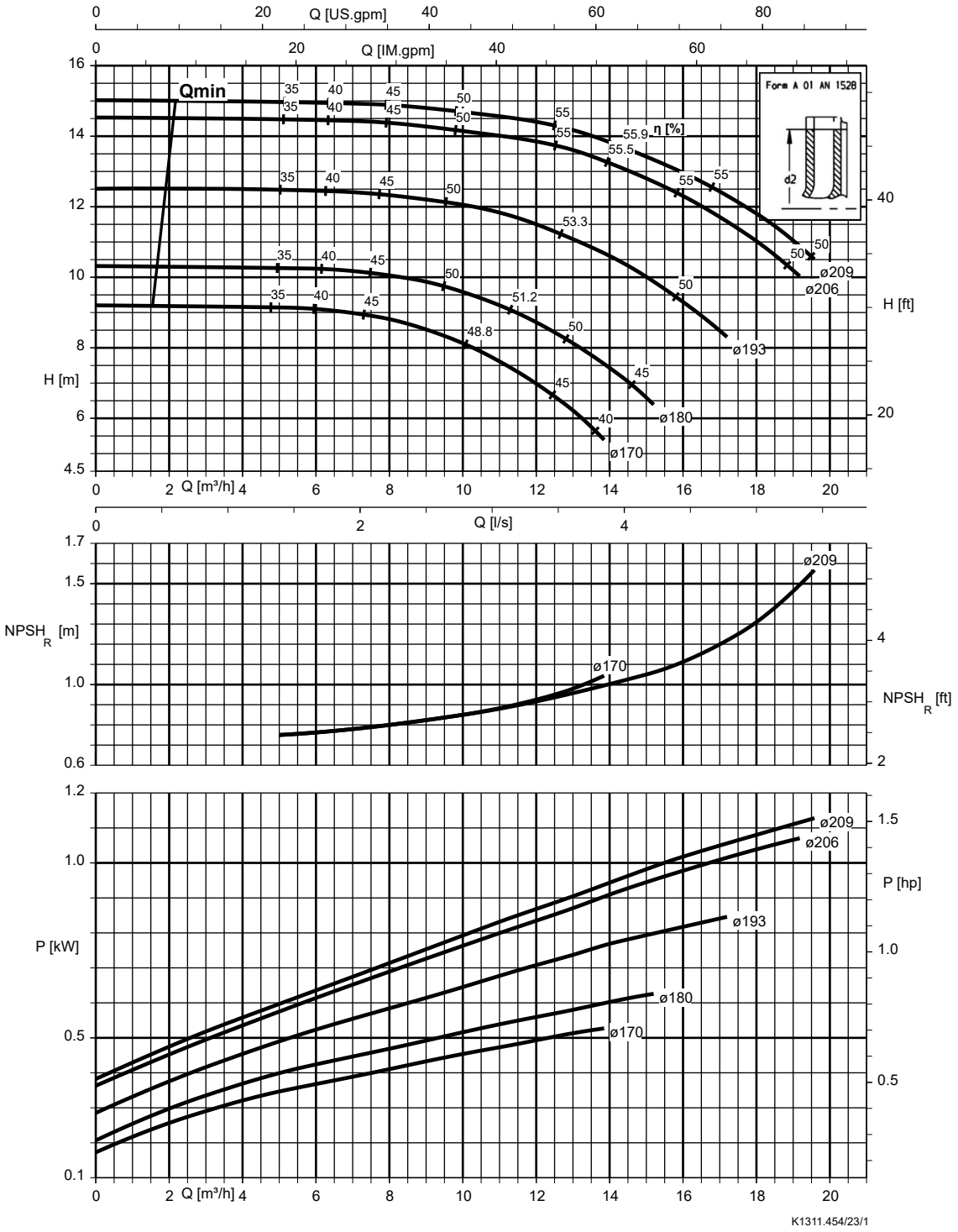
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 050-032-200 , n = 1 450 t/min

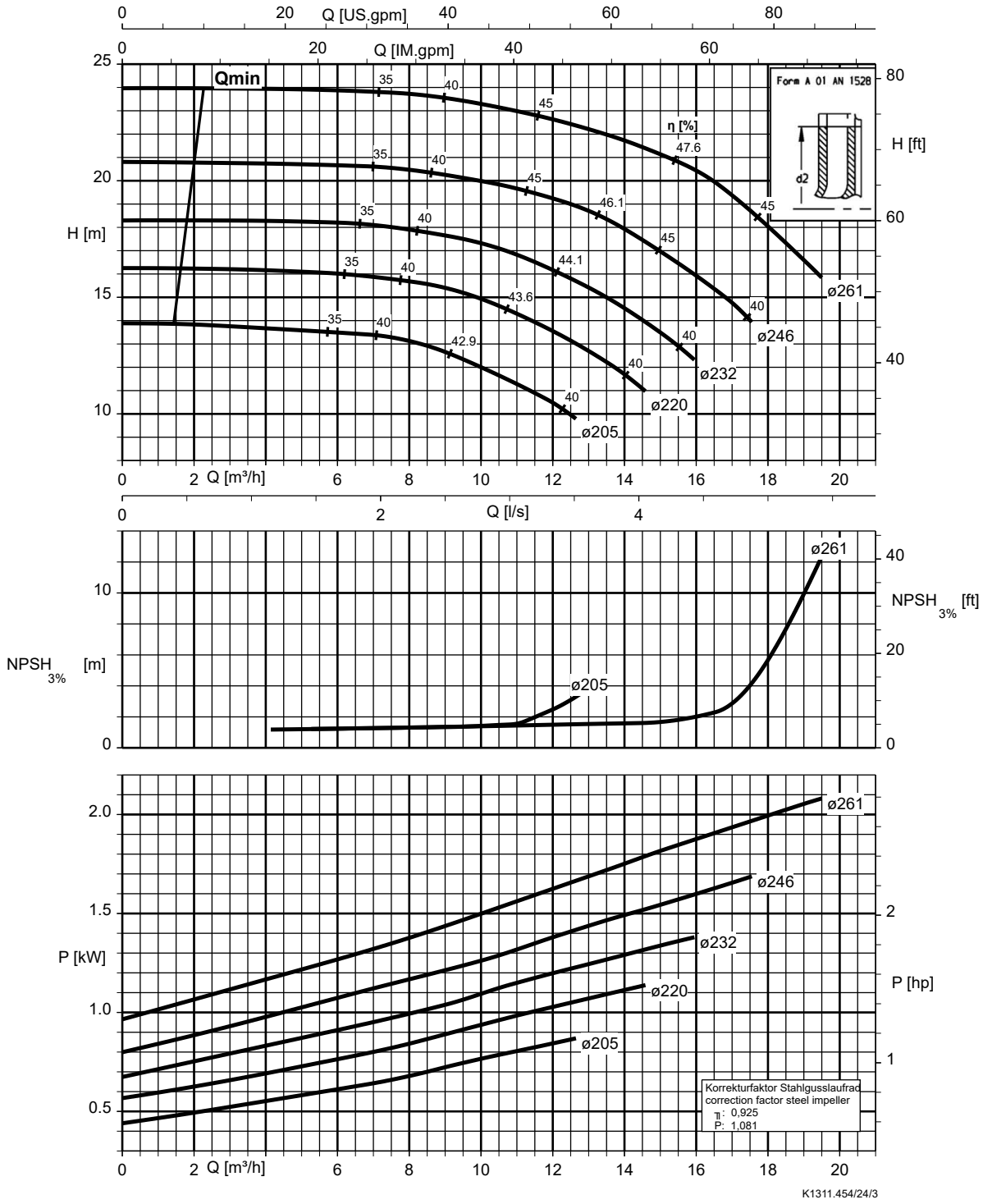
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

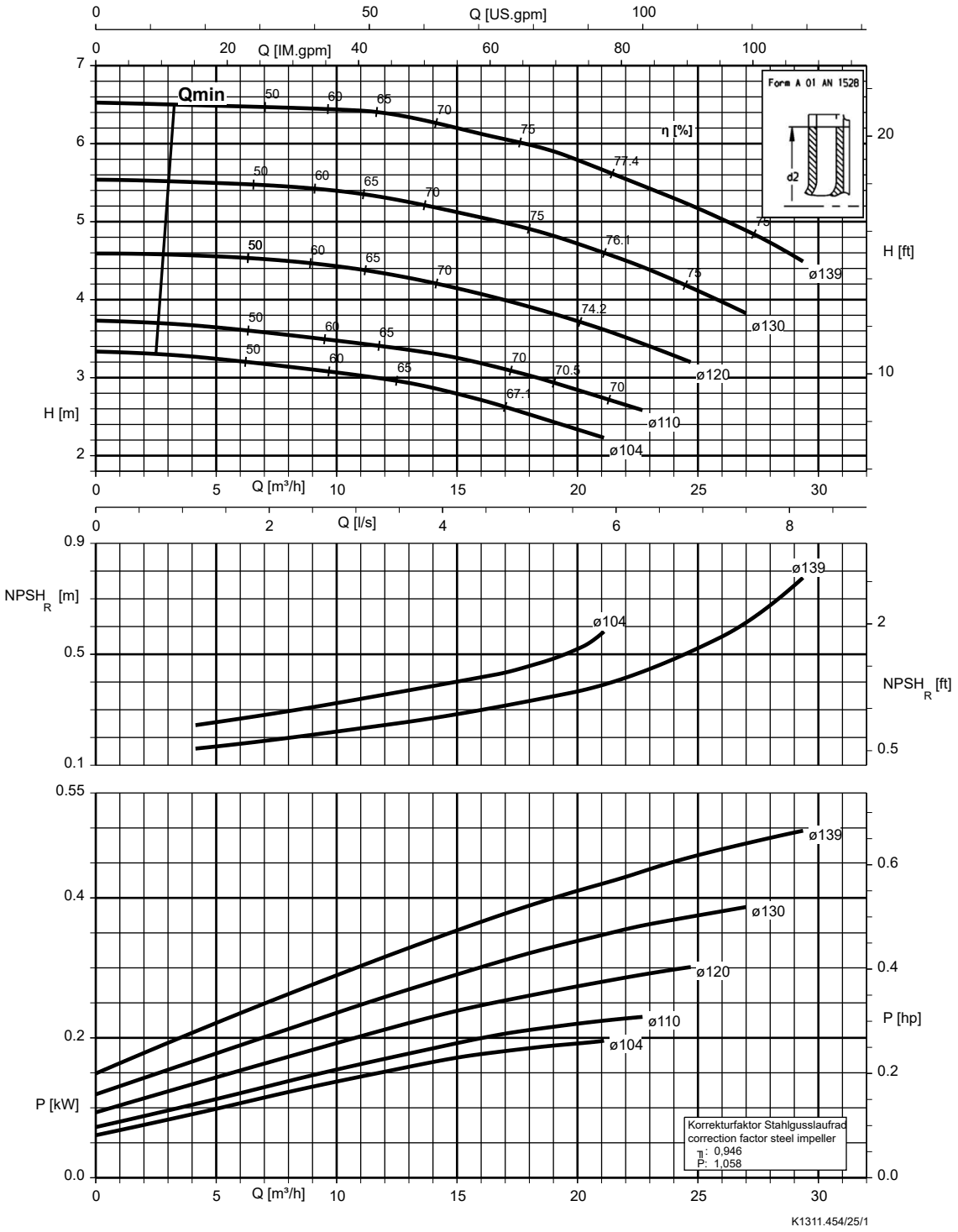
Etanorm 050-032-250, n = 1 450 t/min

Etanorm SYT, Etanorm V, Etabloc



Etanorm 065-040-125, n = 1 450 t/min

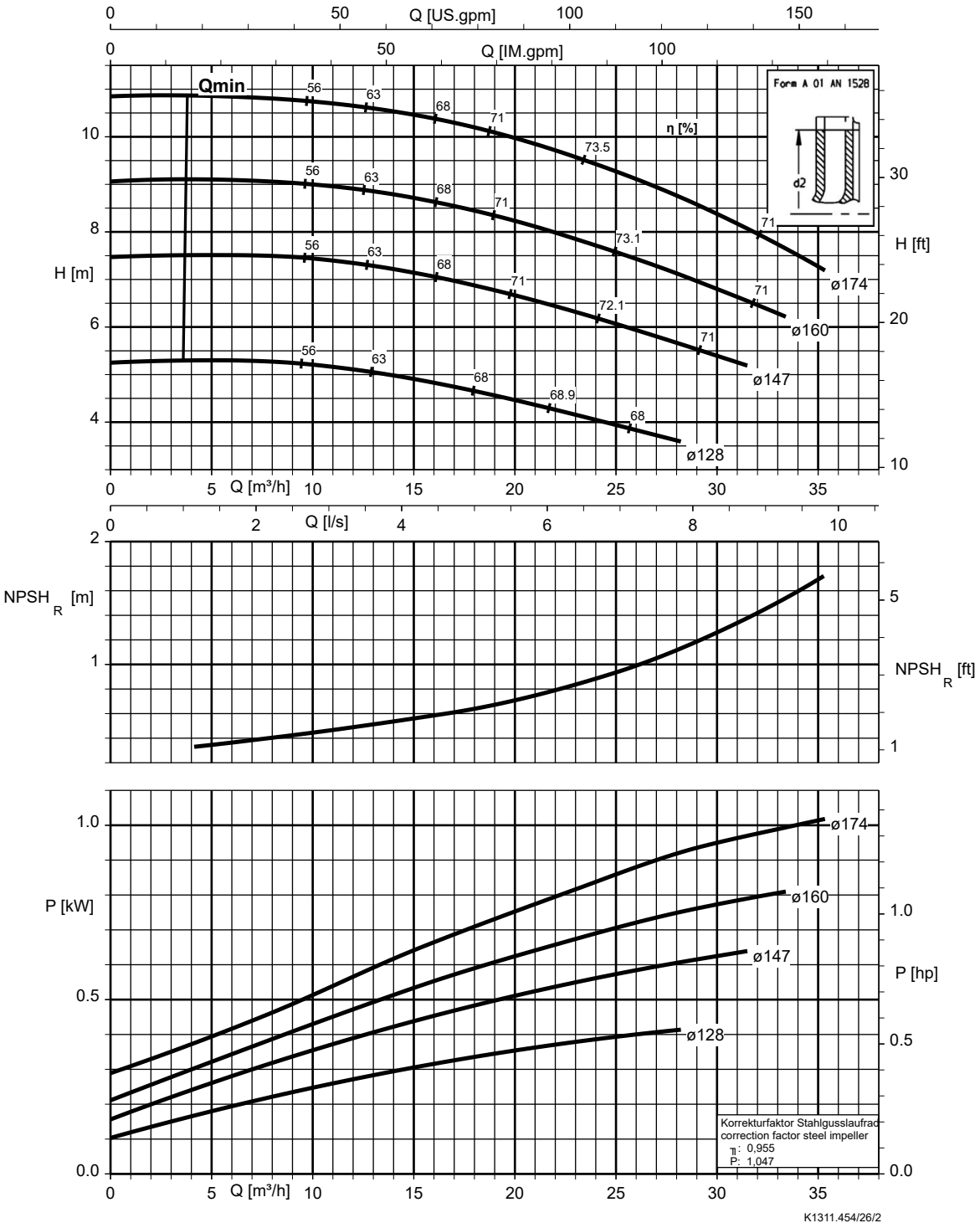
Etanorm V, Etabloc



1311.45/12-FR

Etanorm 065-040-160, n = 1 450 t/min

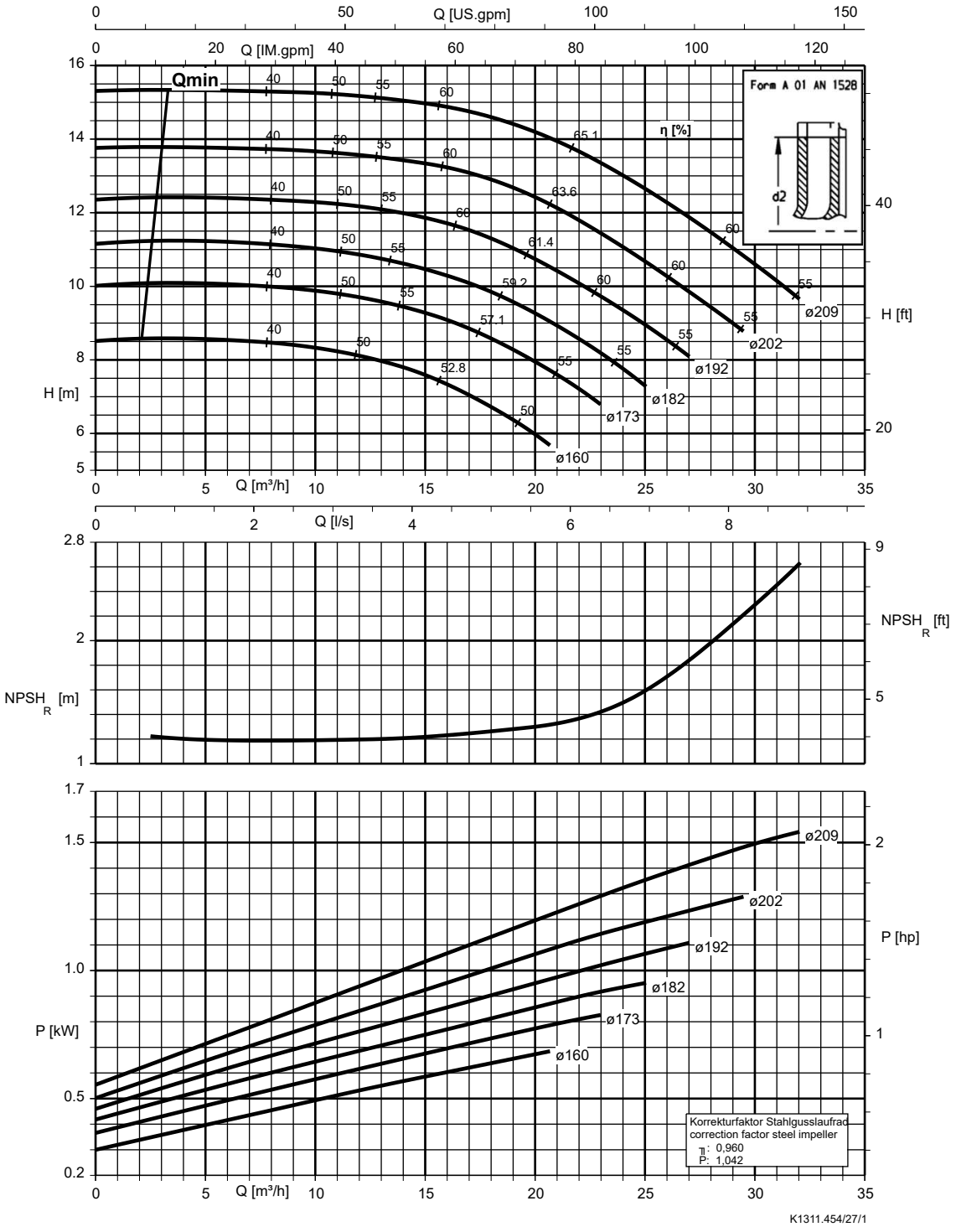
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 065-040-200, n = 1 450 t/min

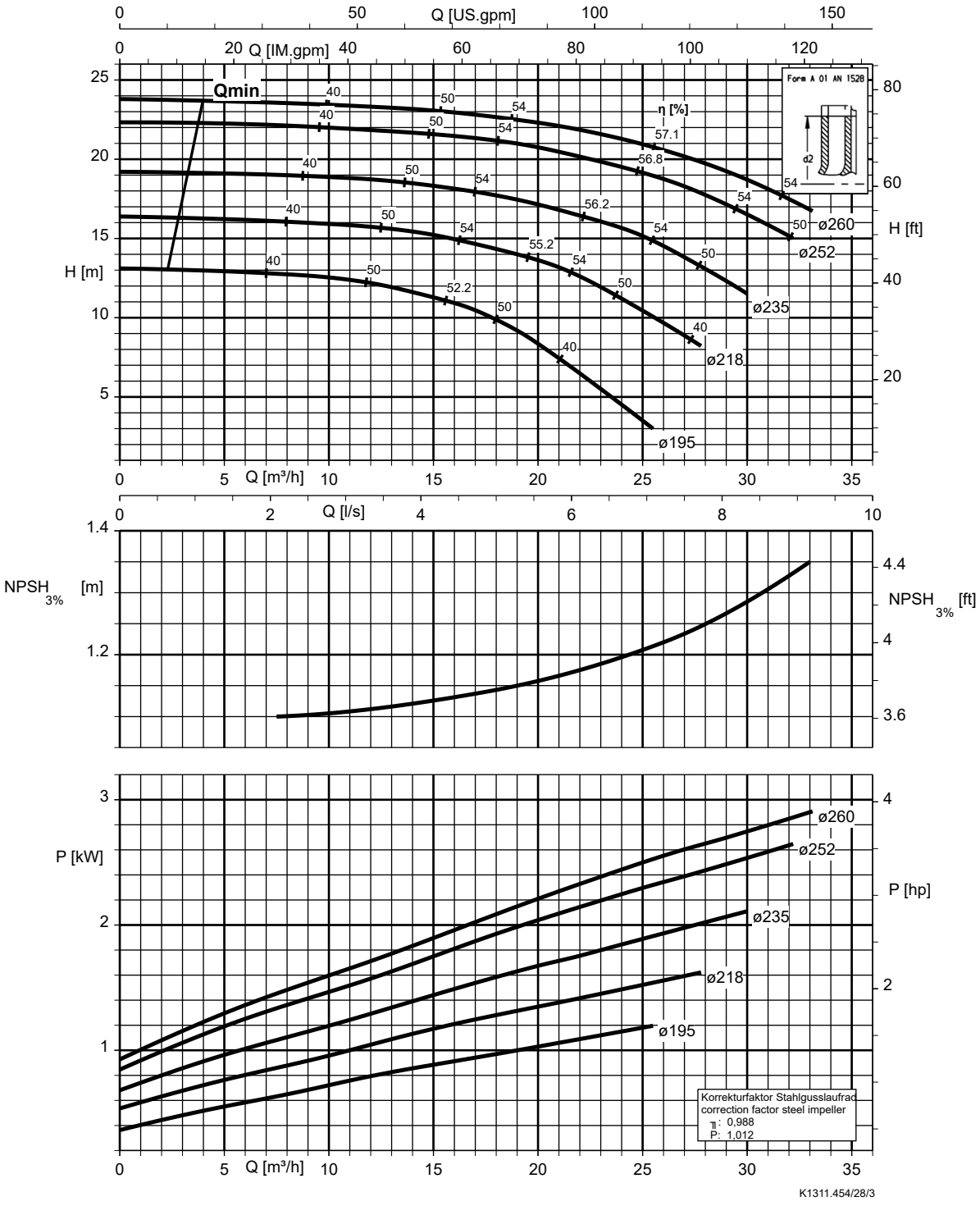
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 065-040-250, n = 1 450 t/min

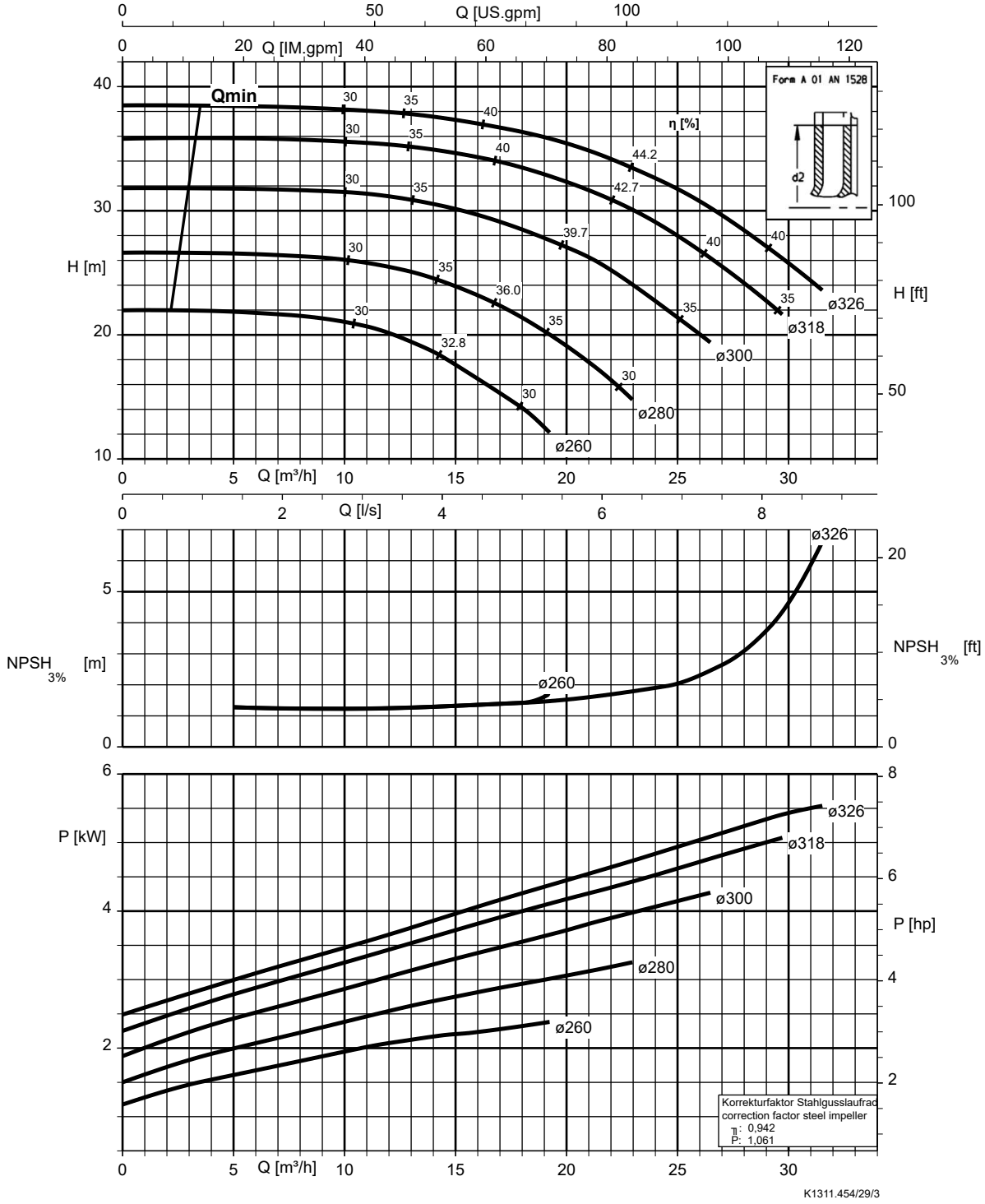
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 065-040-315, n = 1 450 t/min

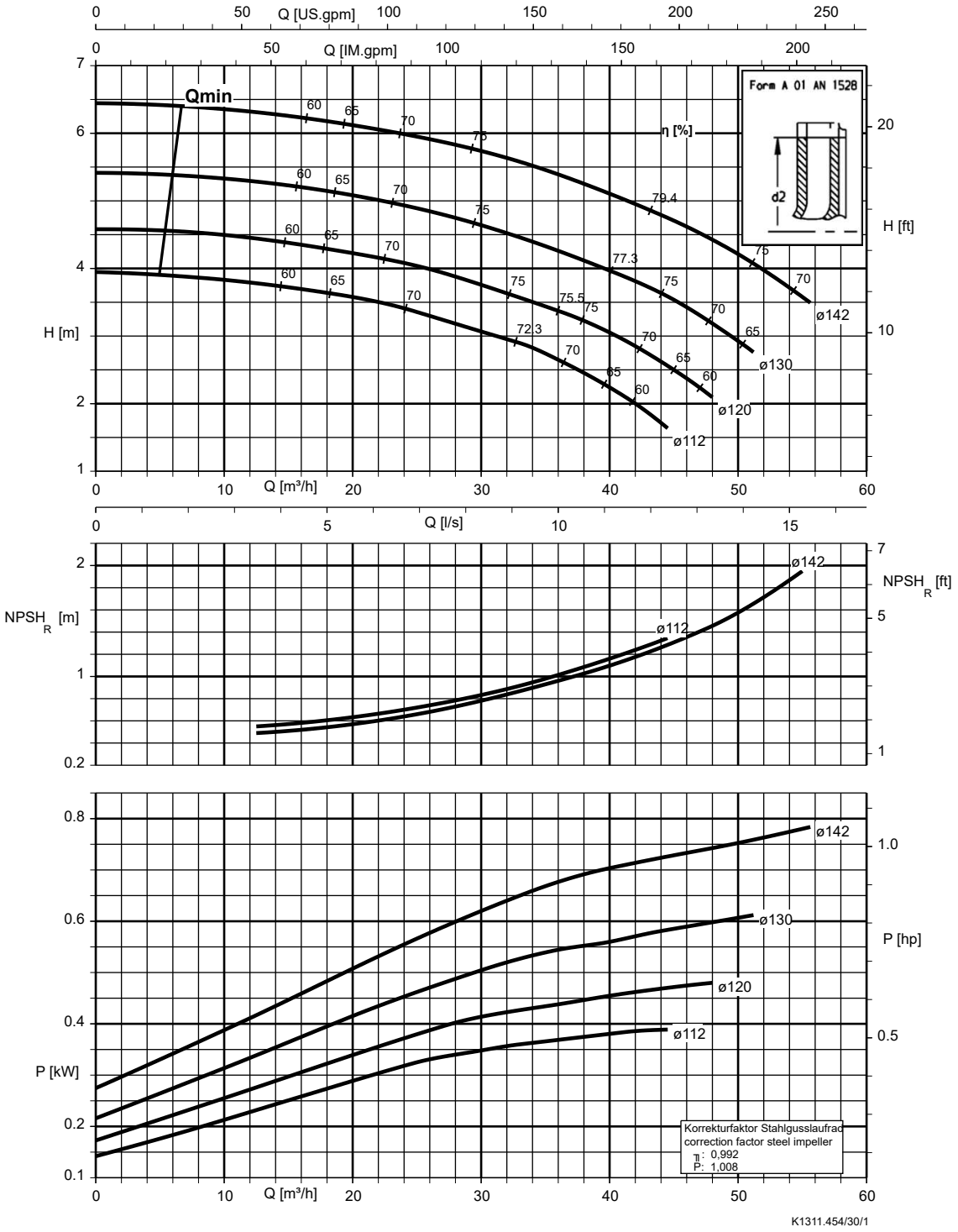
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

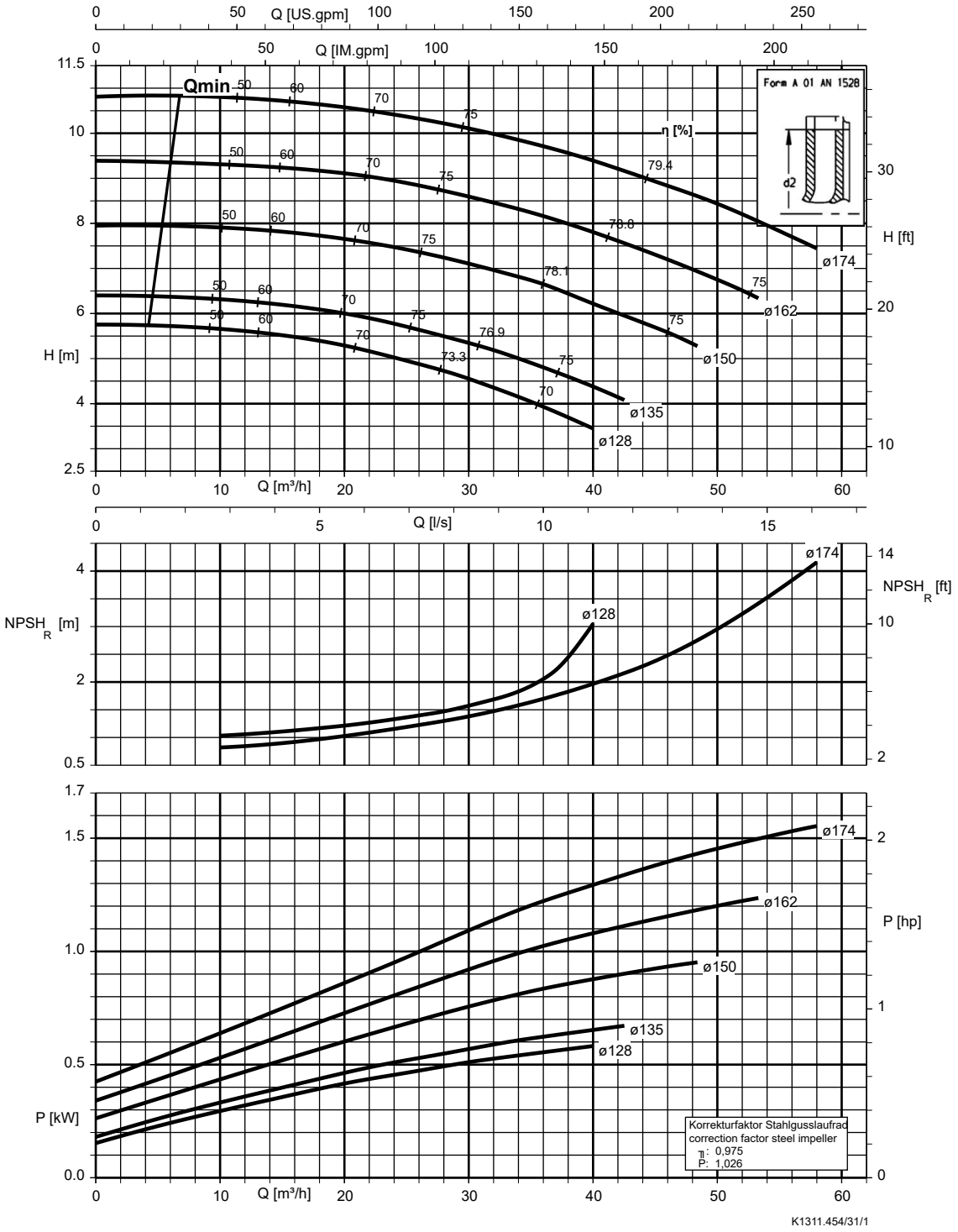
Etanorm 065-050-125, n = 1 450 t/min

Etanorm V, Etabloc



Etanorm 065-050-160, n = 1 450 t/min

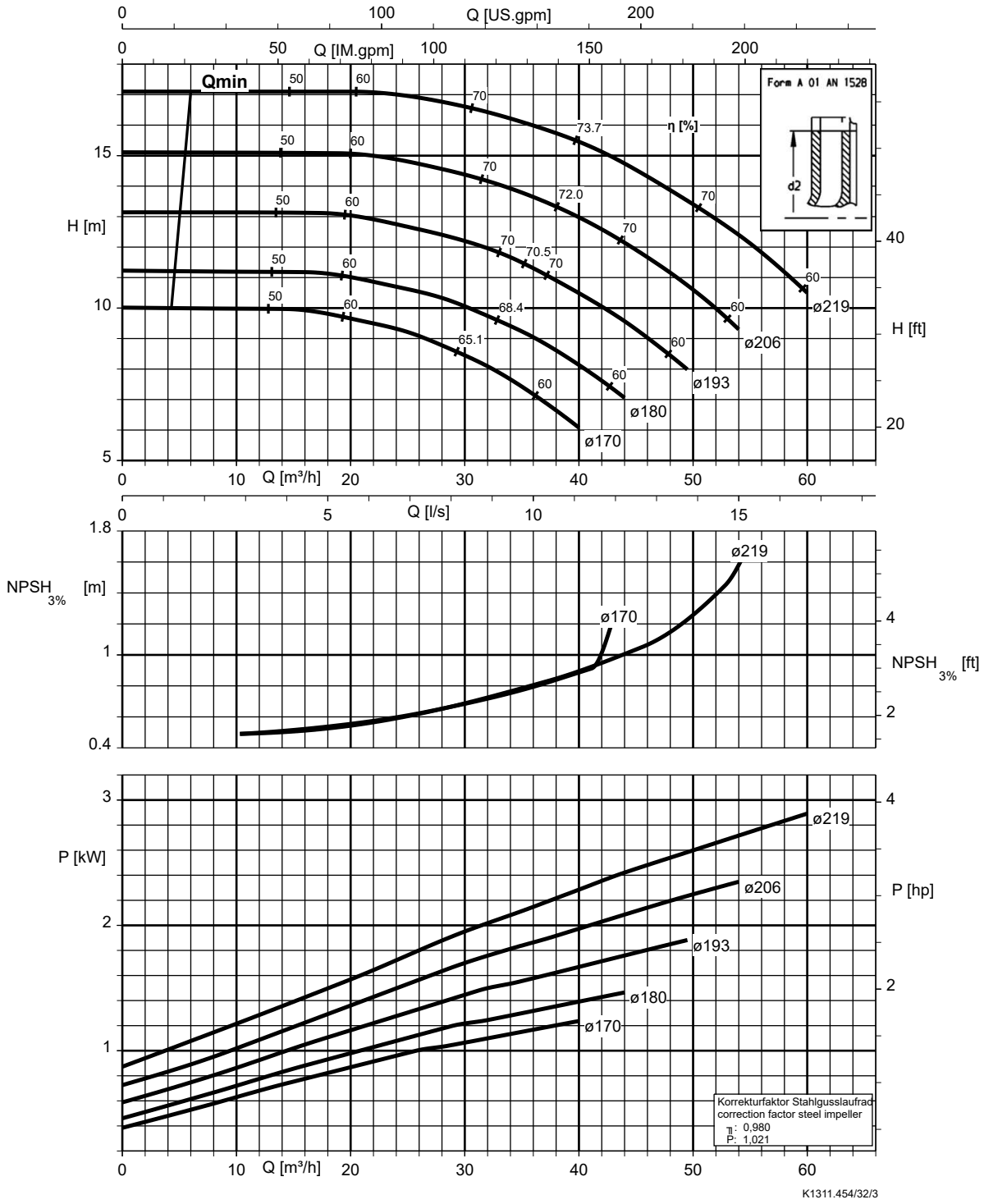
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 065-050-200, n = 1 450 t/min

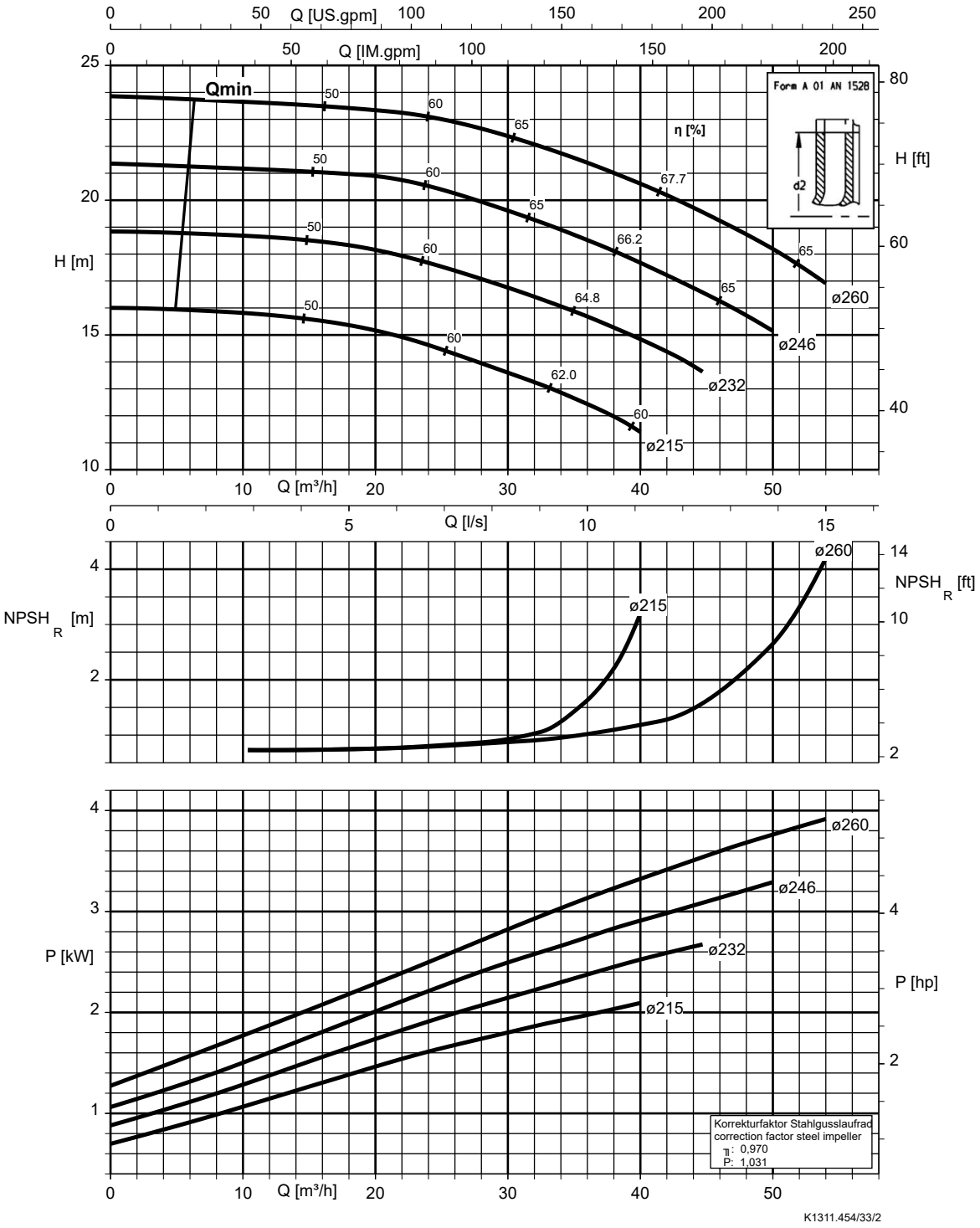
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 065-050-250, n = 1 450 t/min

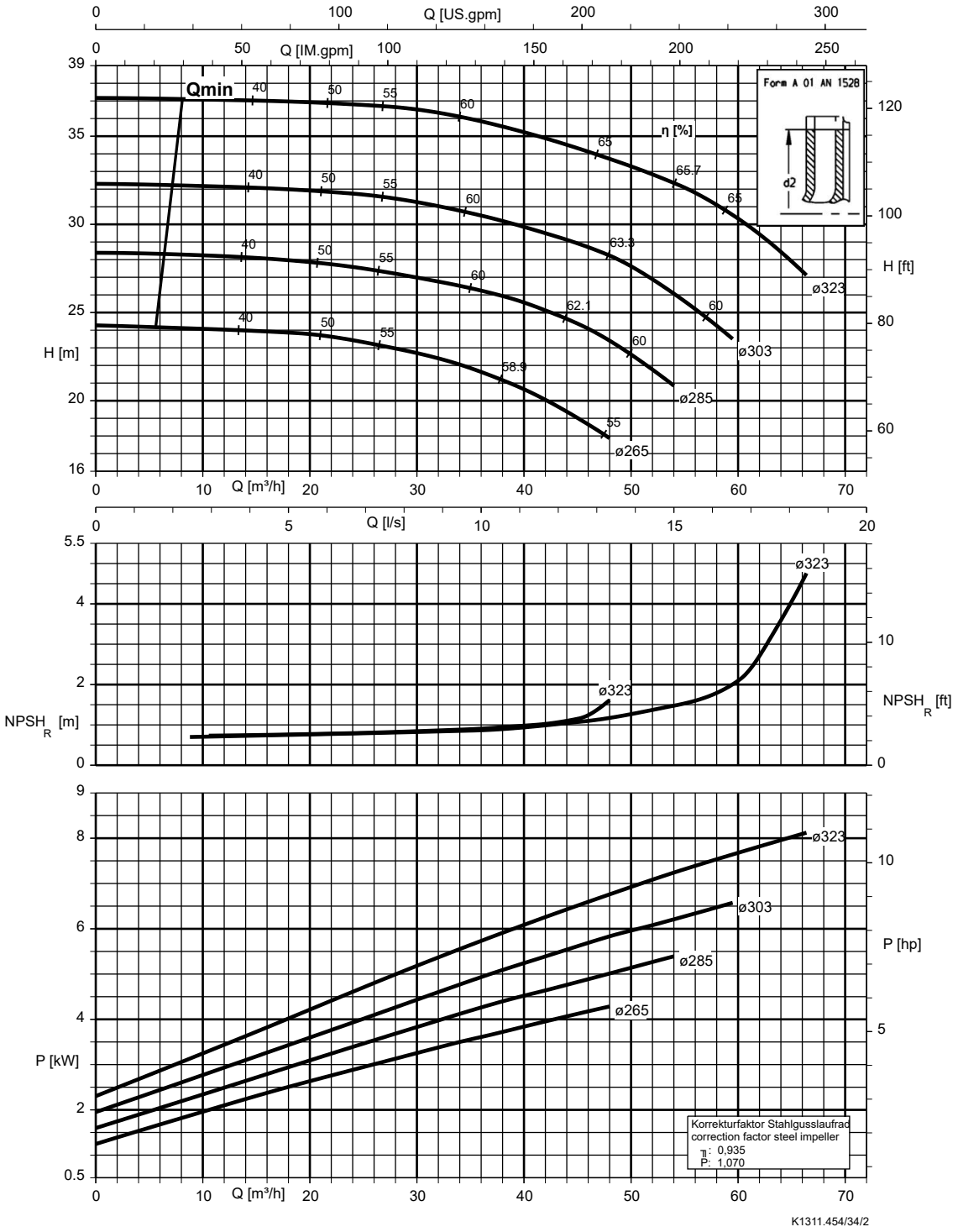
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 065-050-315, n = 1 450 t/min

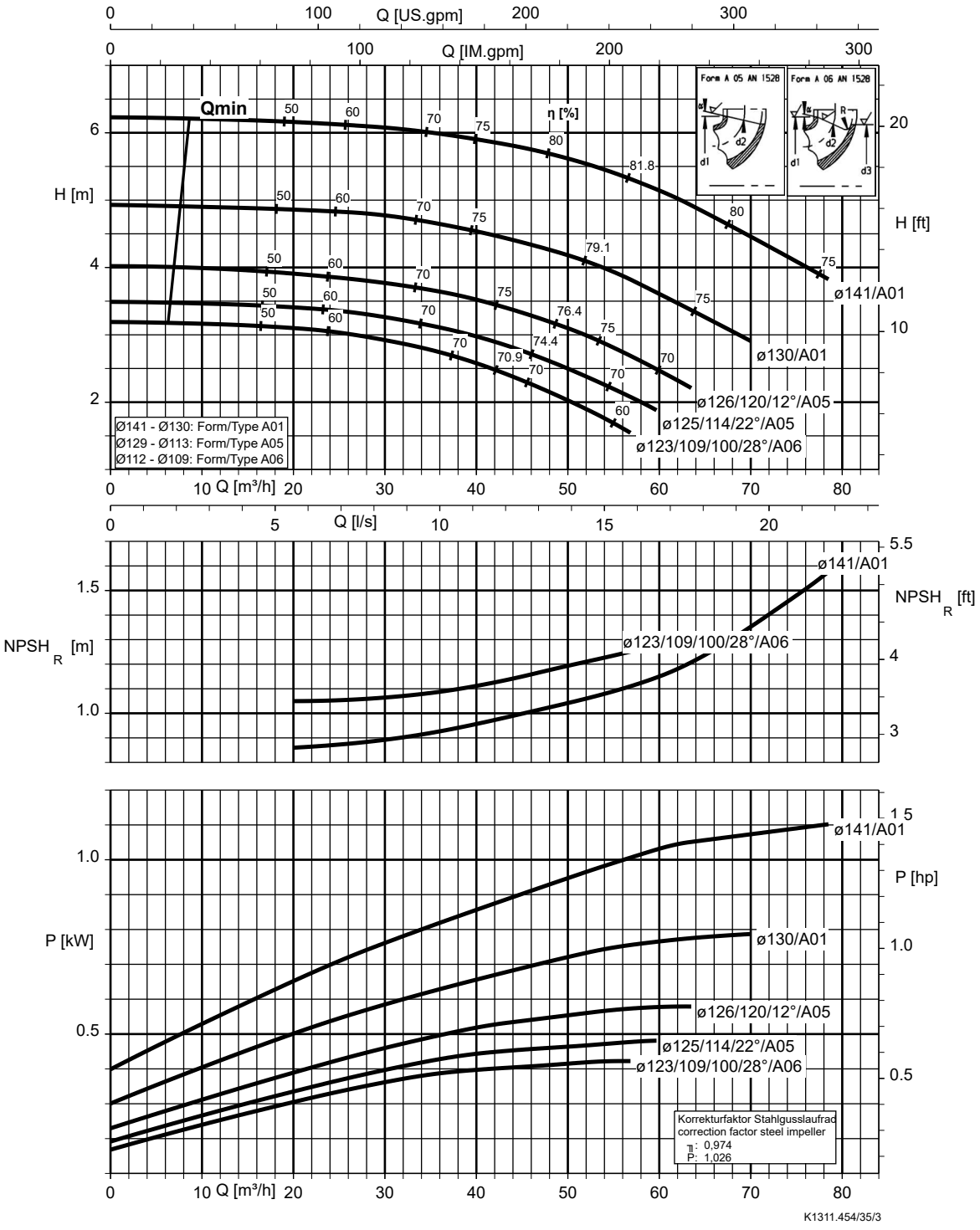
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 080-065-125, n = 1 450 t/min

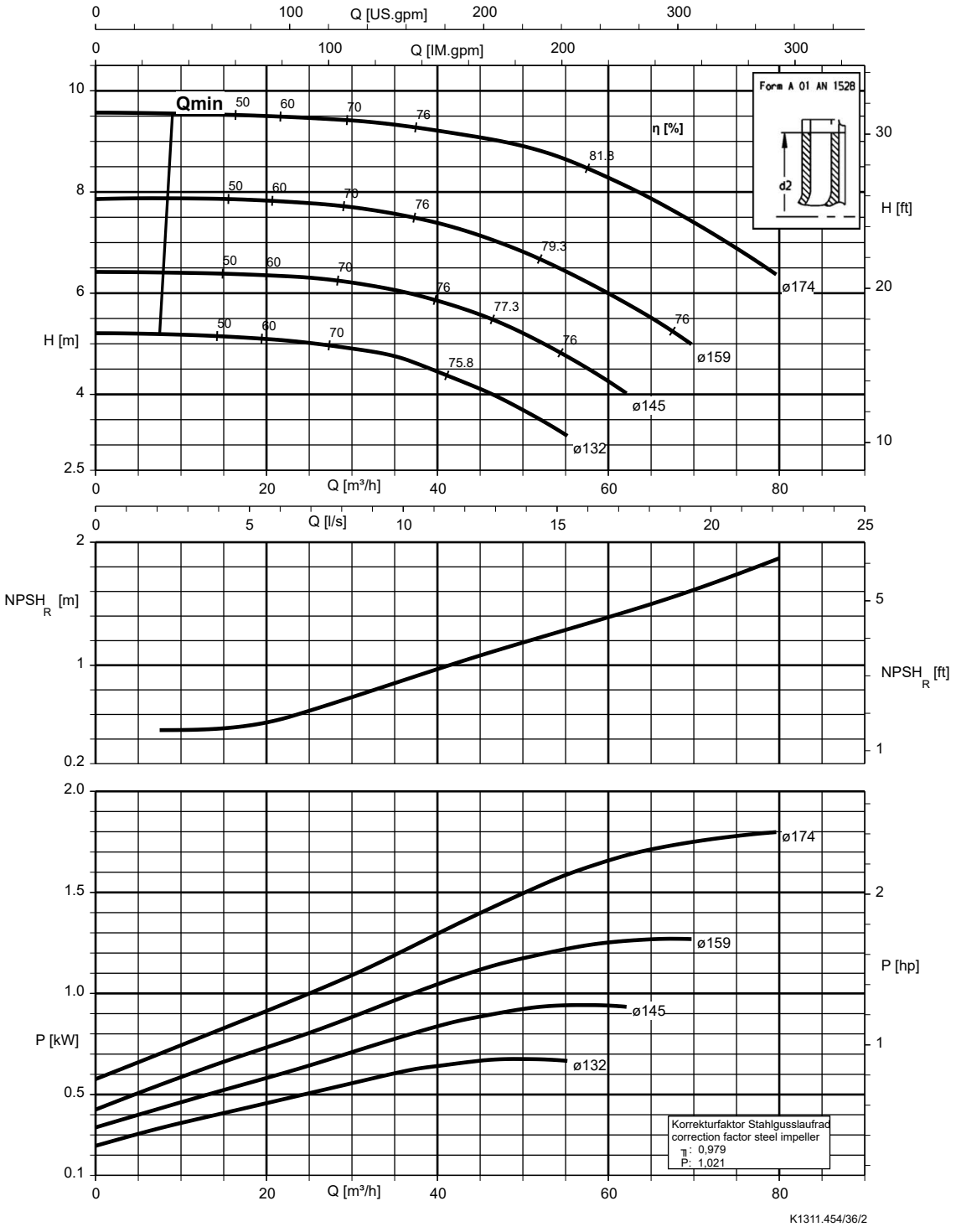
Etanorm V, Etabloc



1311.45/12-FR

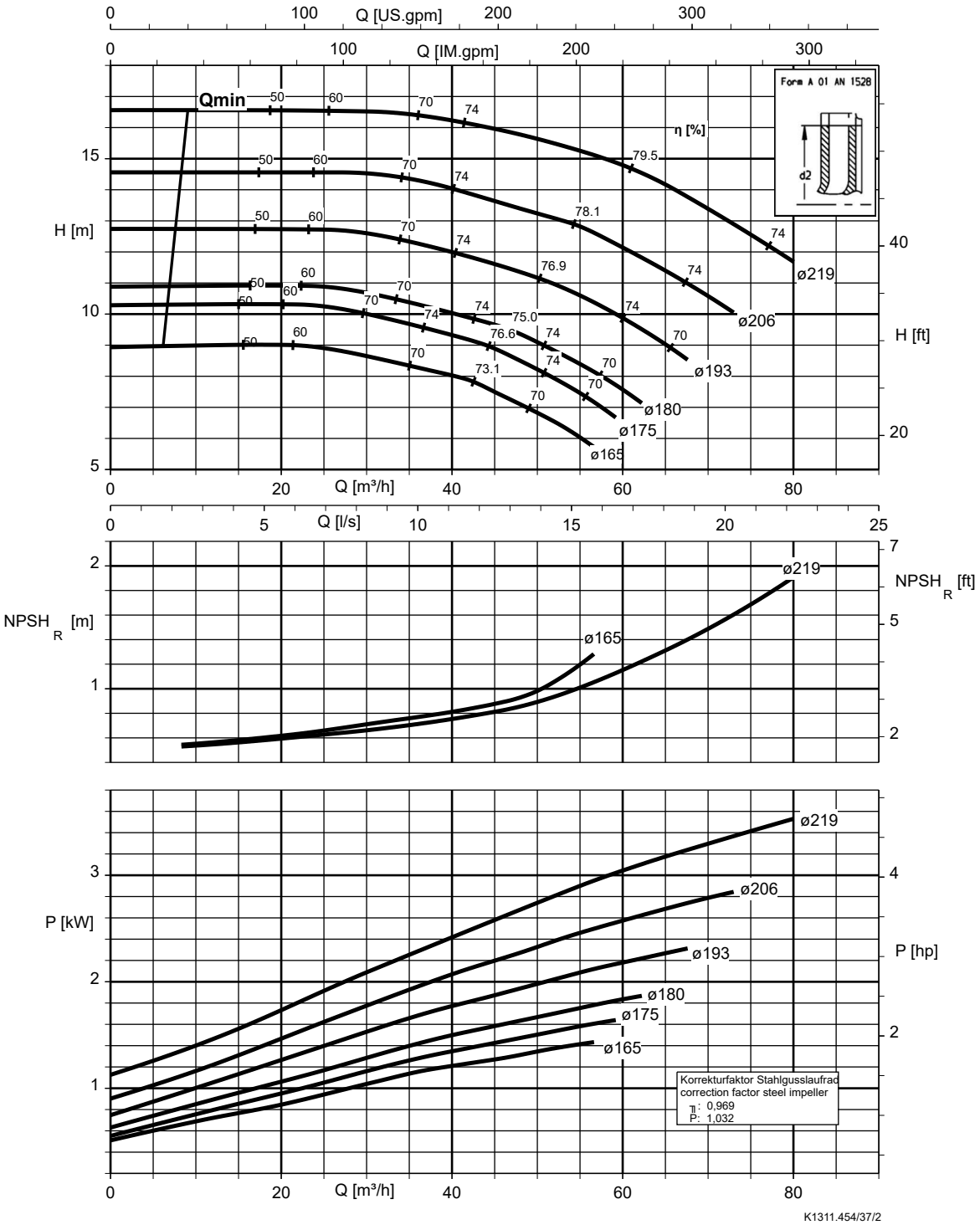
Etanorm 080-065-160, n = 1 450 t/min

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 080-065-200, n = 1 450 t/min

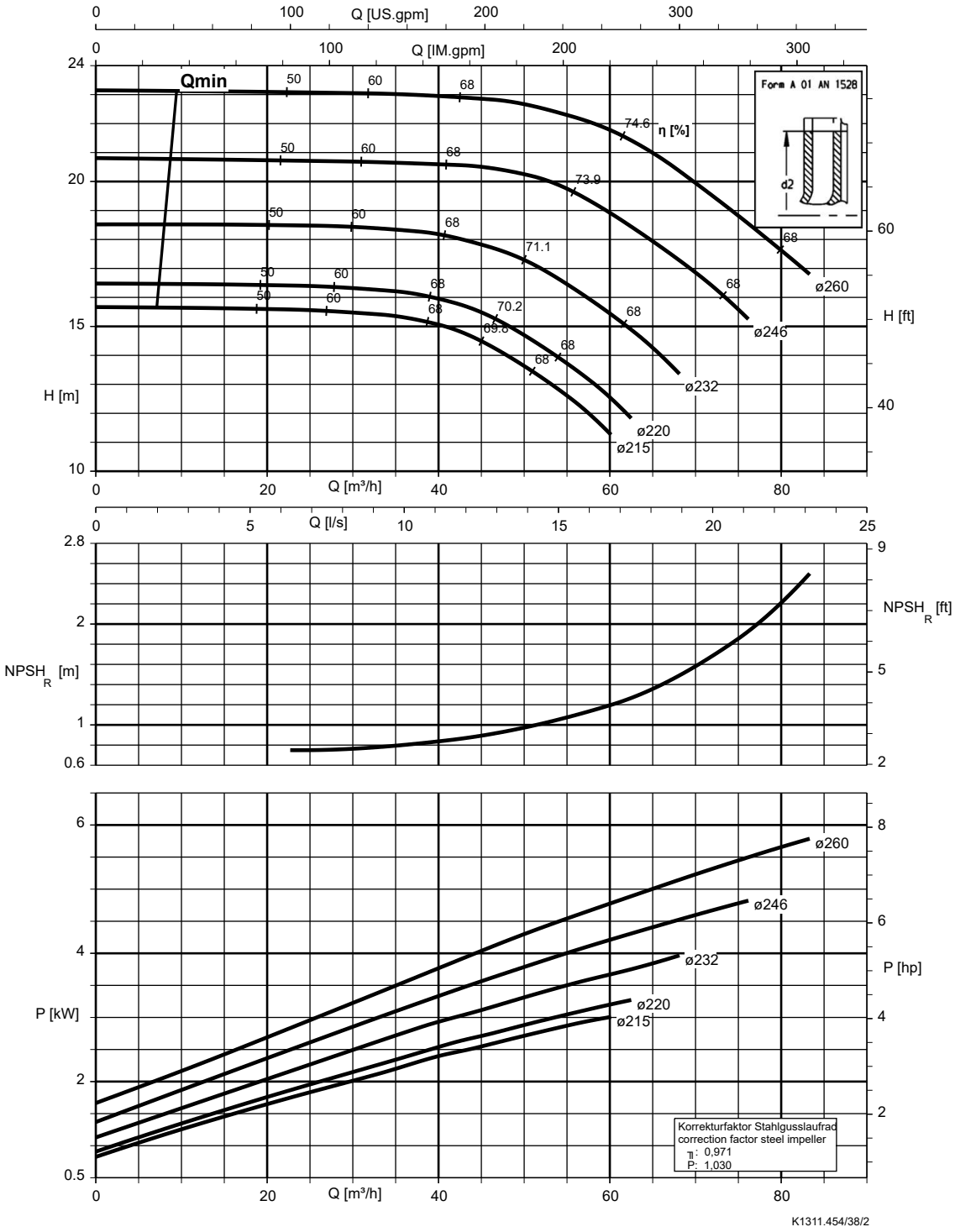
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



1311.45/12-FR

Etanorm 080-065-250, n = 1 450 t/min

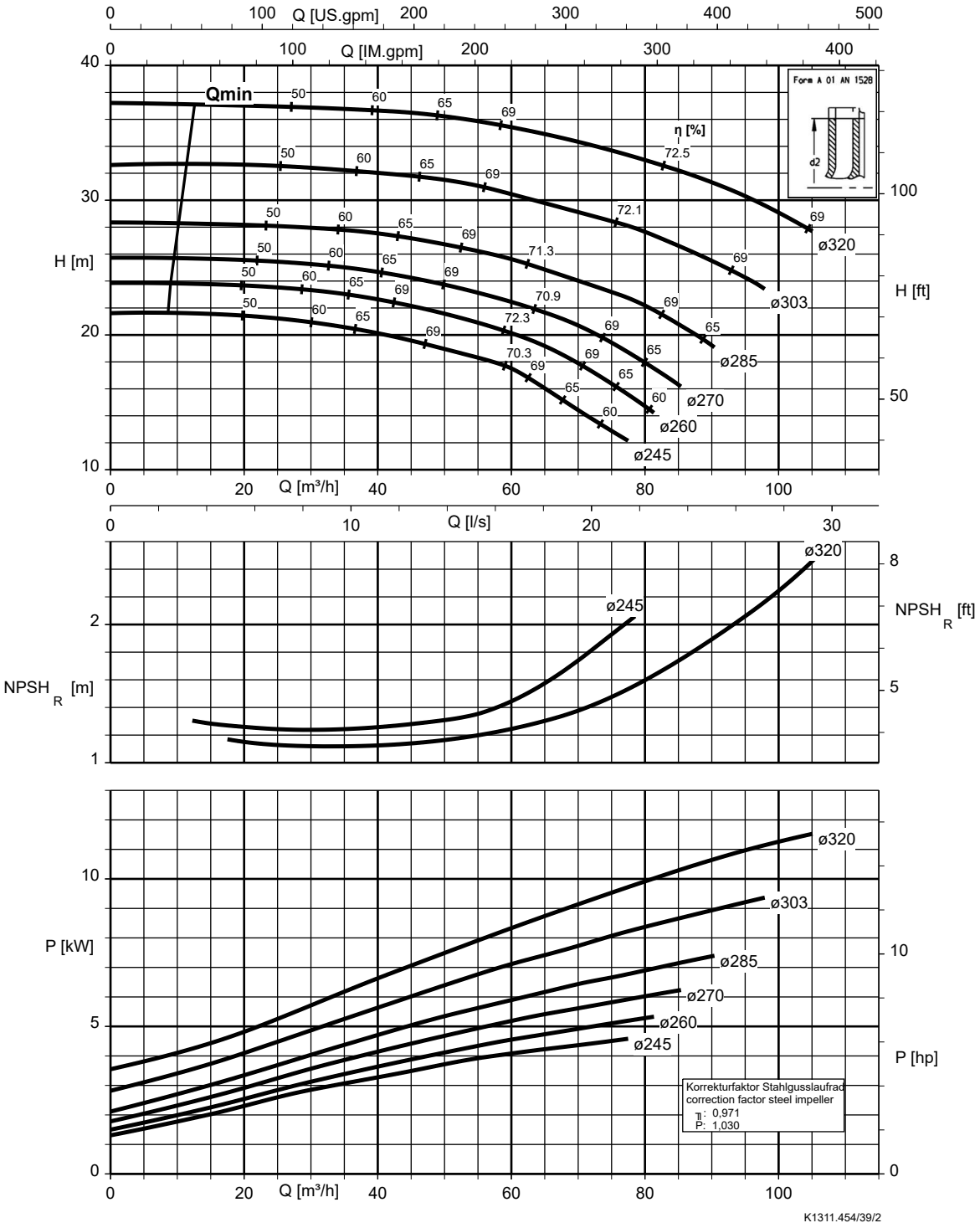
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 080-065-315, n = 1 450 t/min

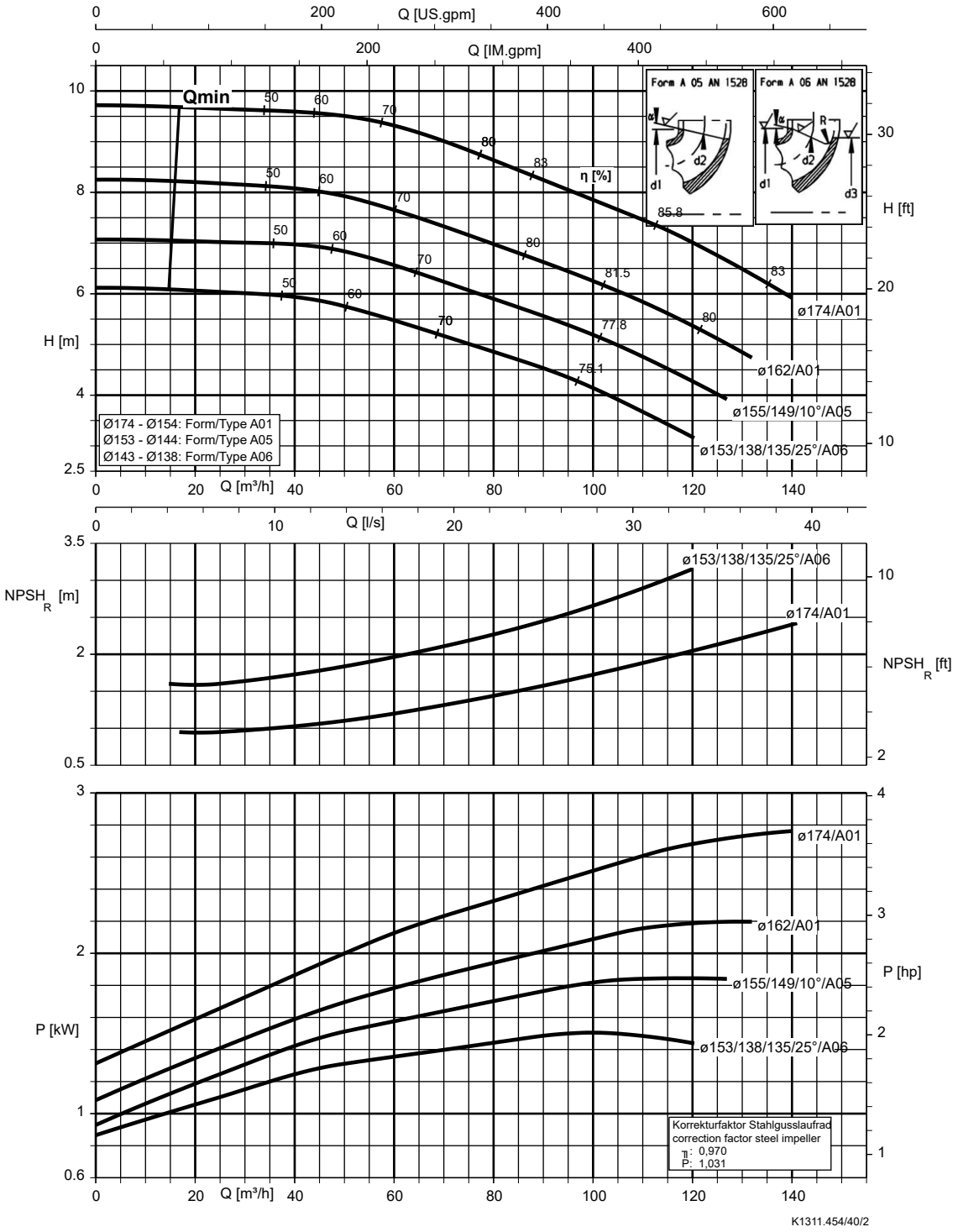
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

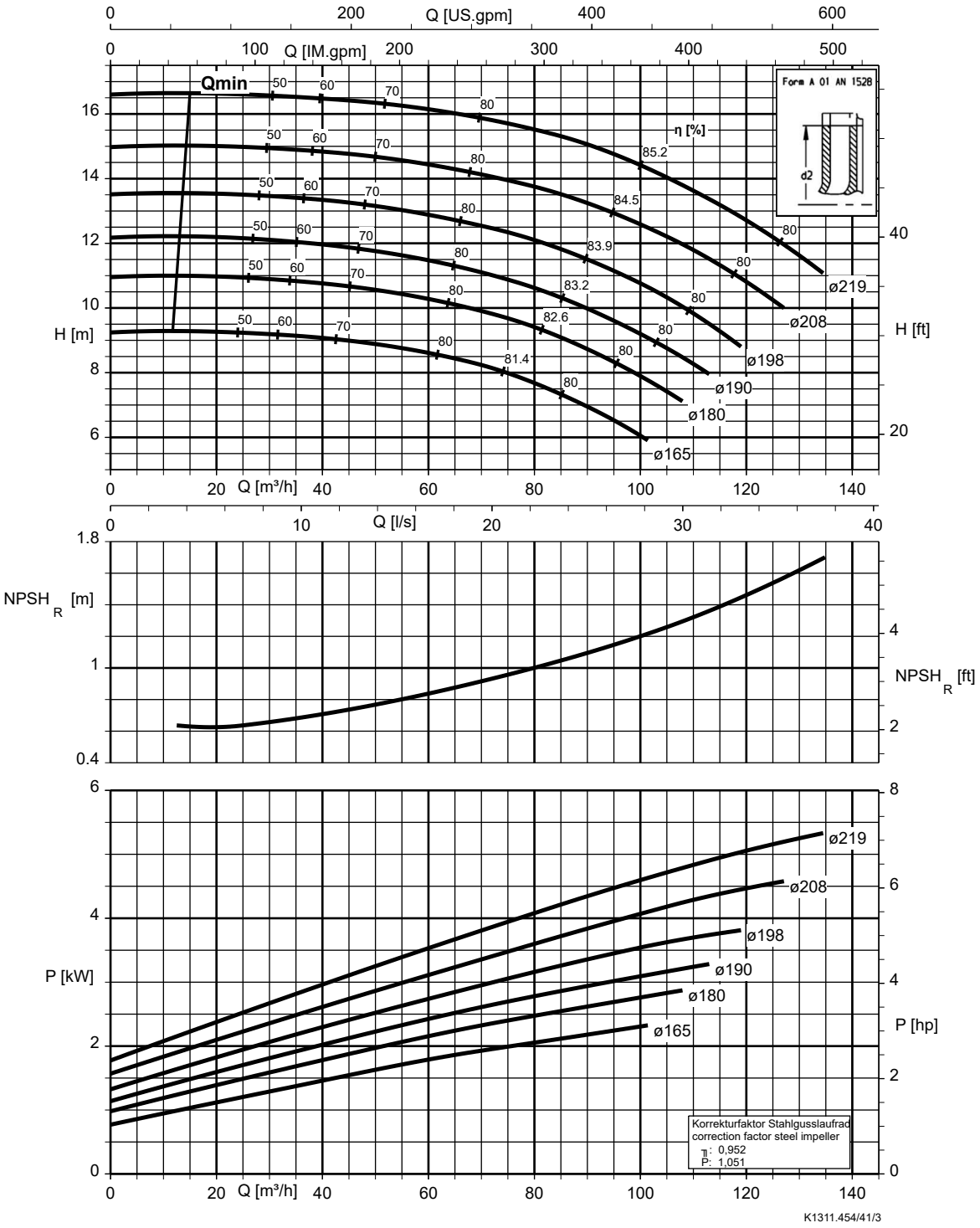
Etanorm 100-080-160, n = 1 450 t/min

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 100-080-200, n = 1 450 t/min

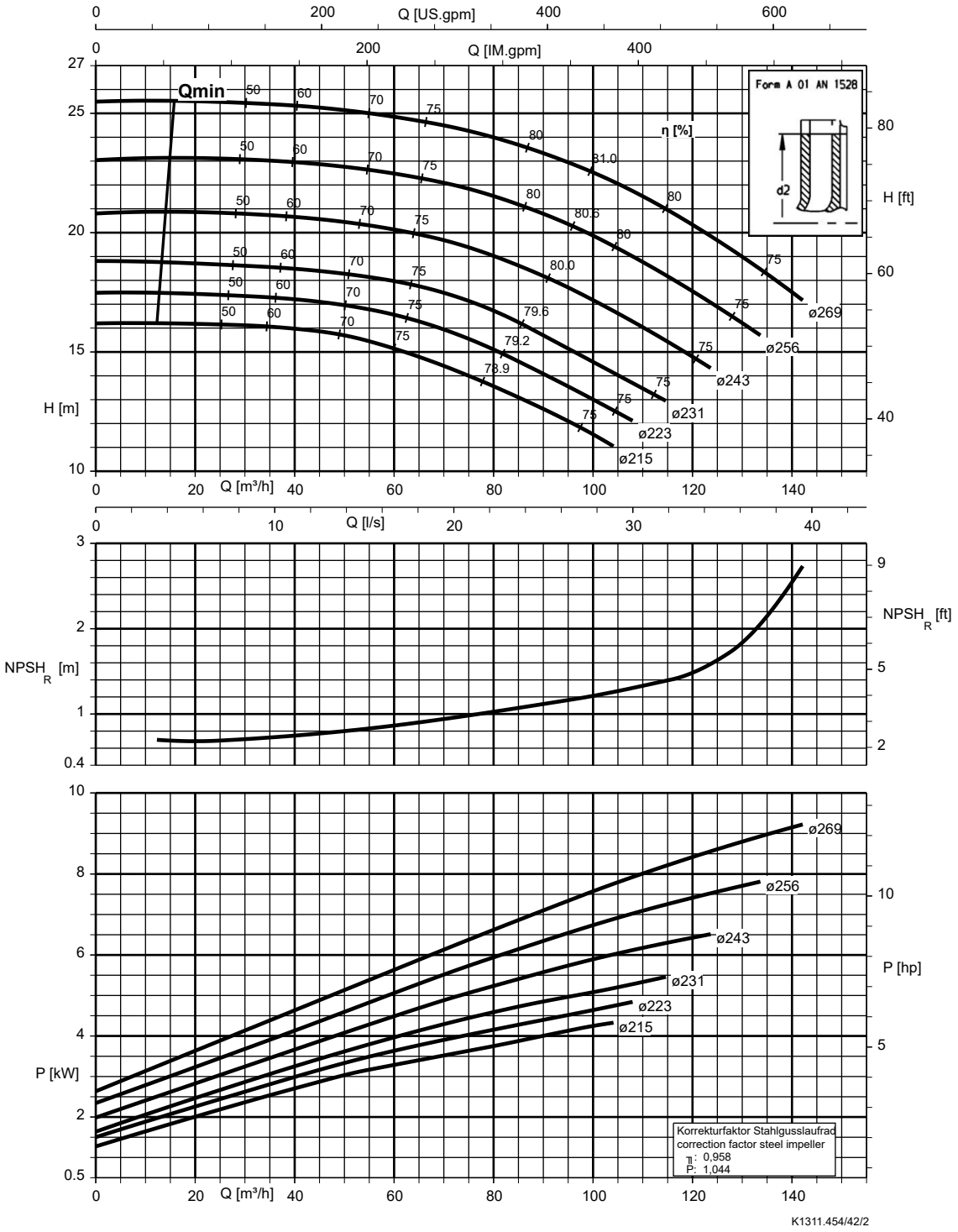
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 100-080-250, n = 1 450 t/min

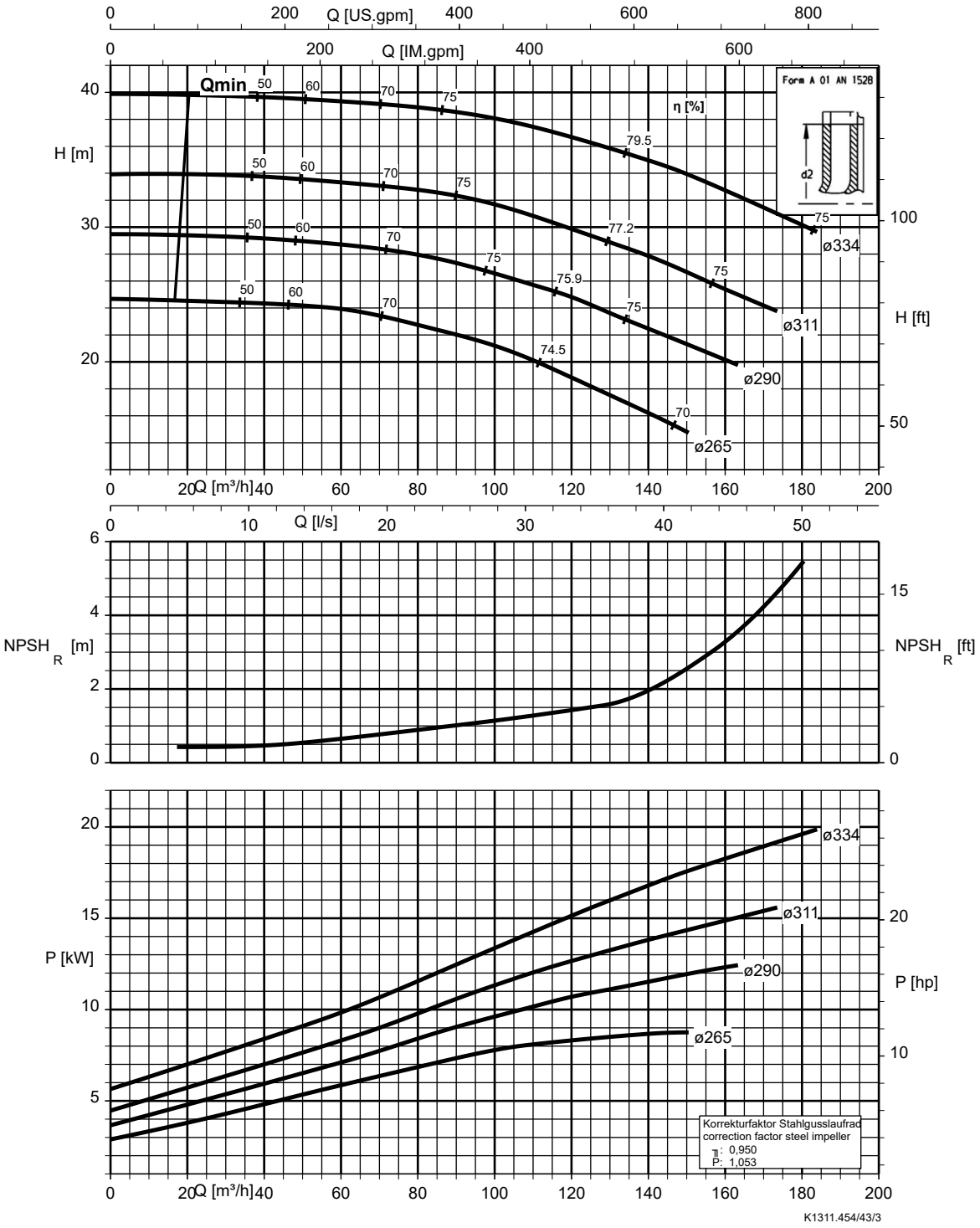
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 100-080-315, n = 1 450 t/min

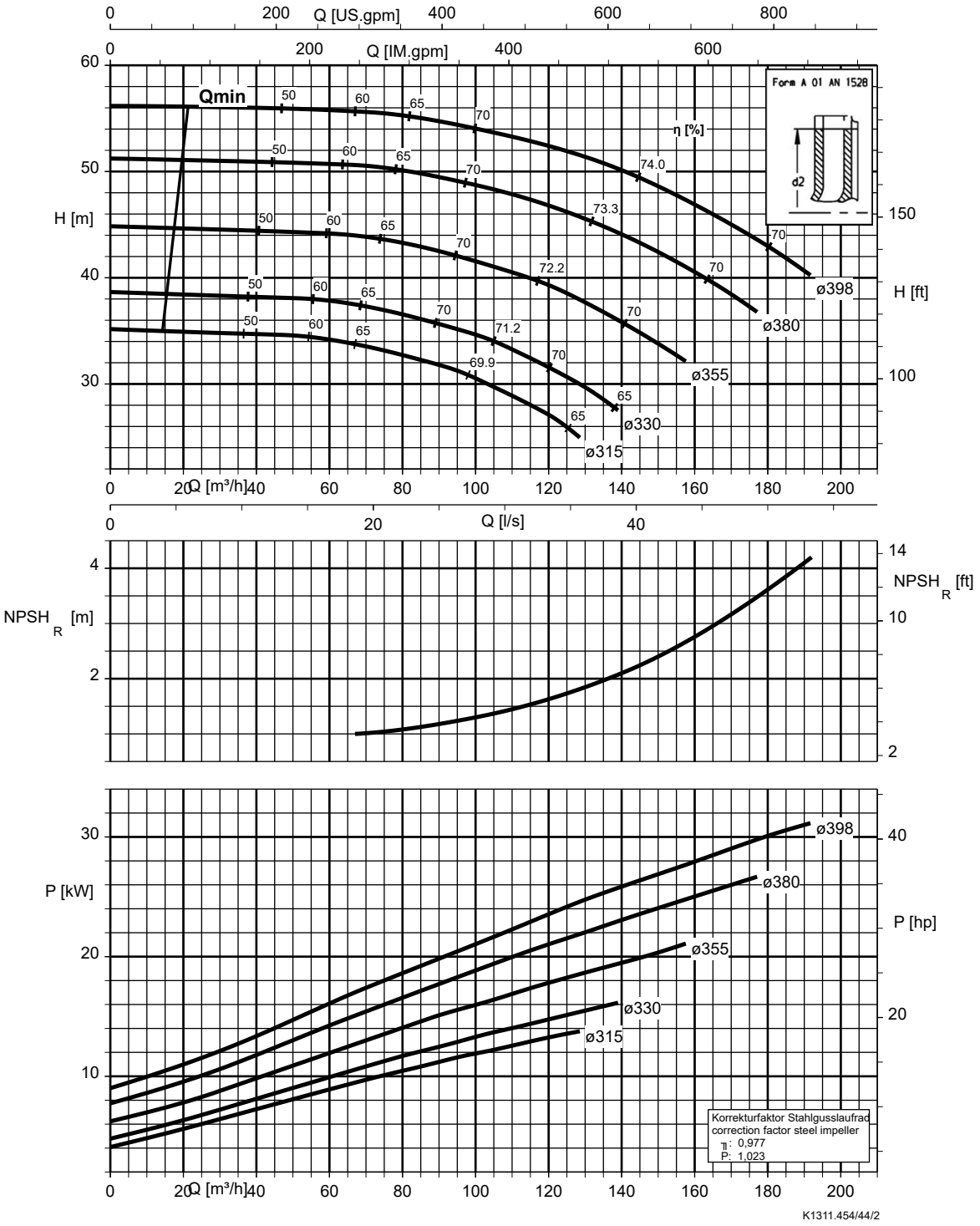
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 100-080-400, n = 1 450 t/min

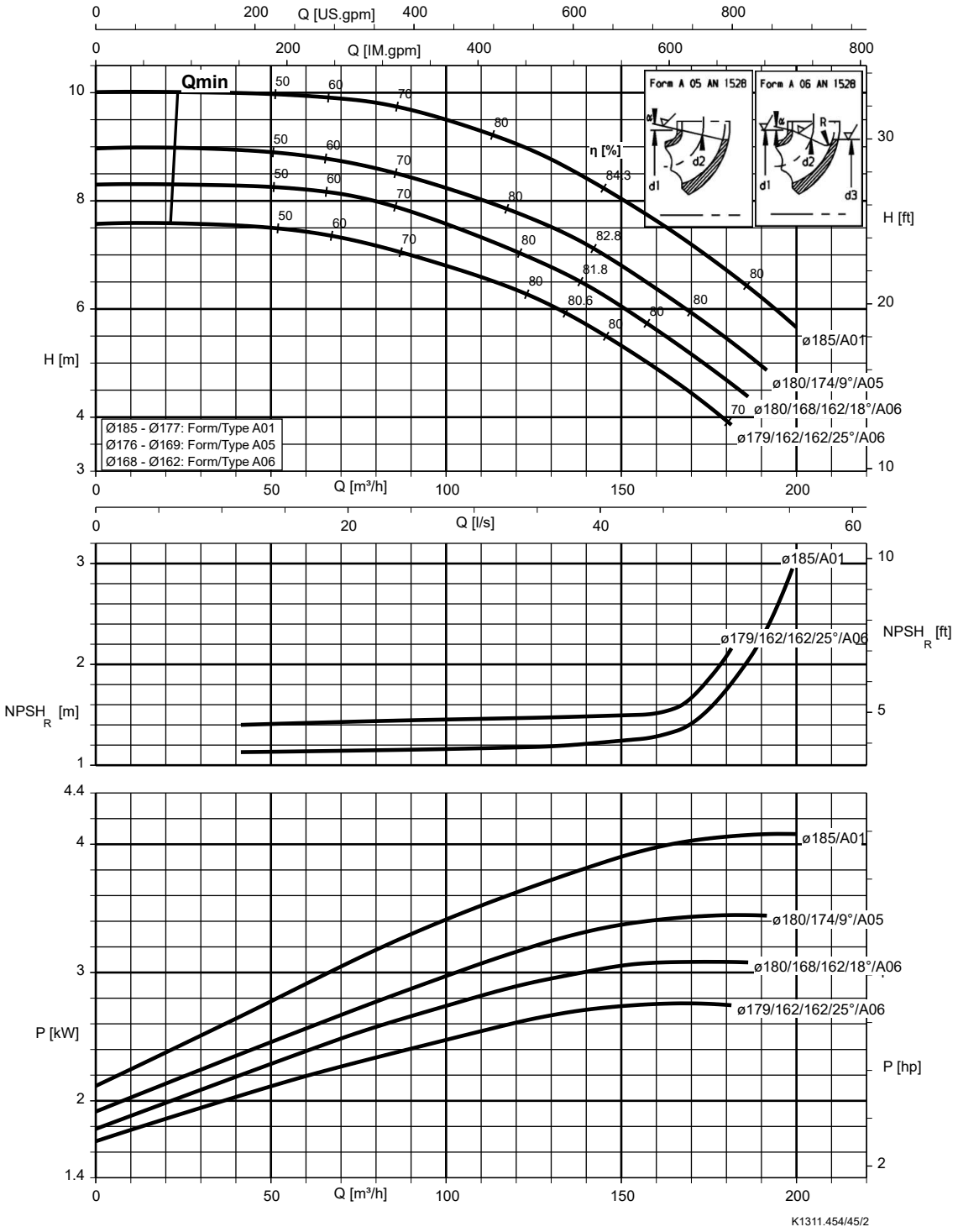
Etanorm V, Etabloc



1311.45/12-FR

Etanorm 125-100-160, n = 1 450 t/min

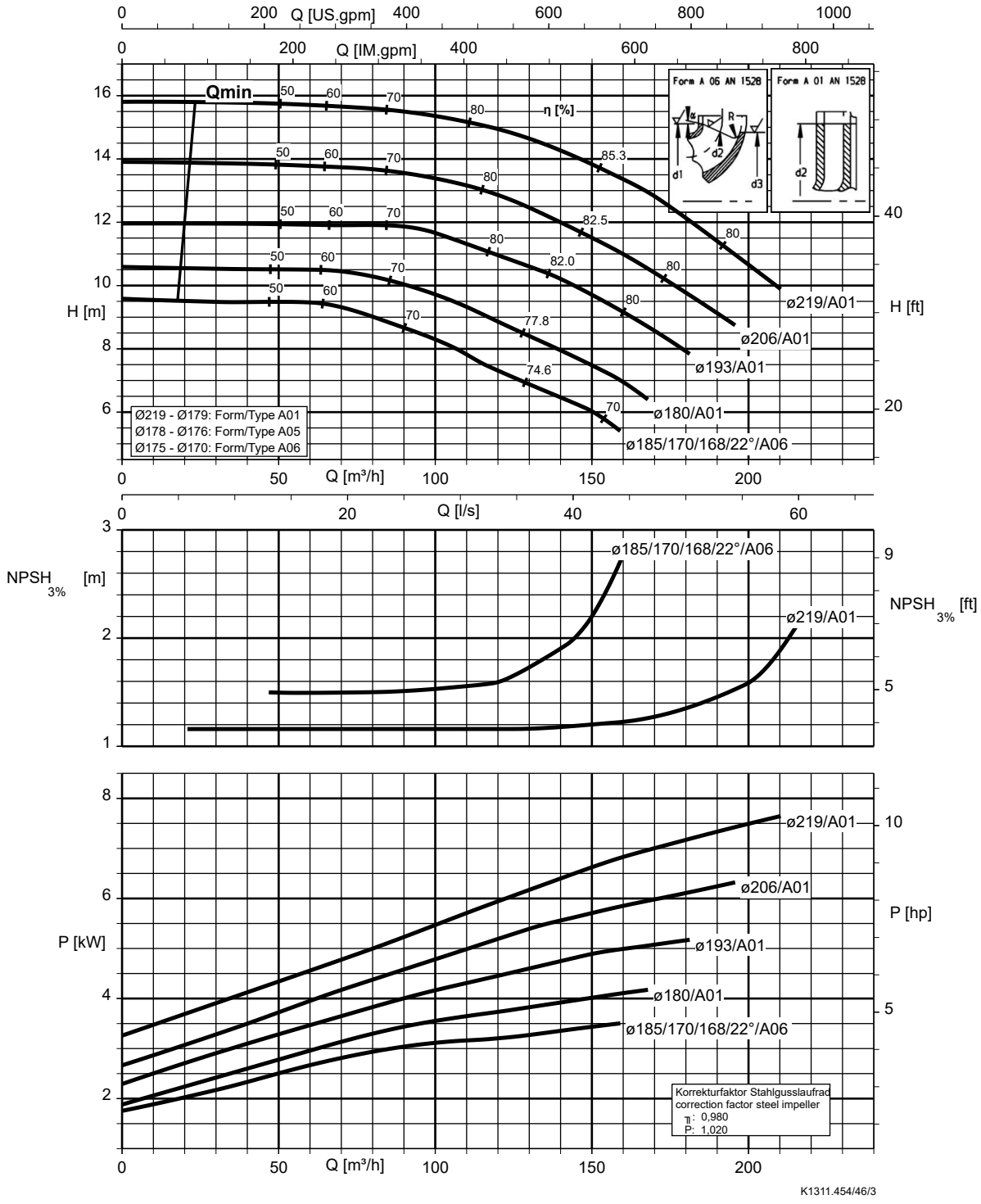
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 125-100-200, n = 1 450 t/min

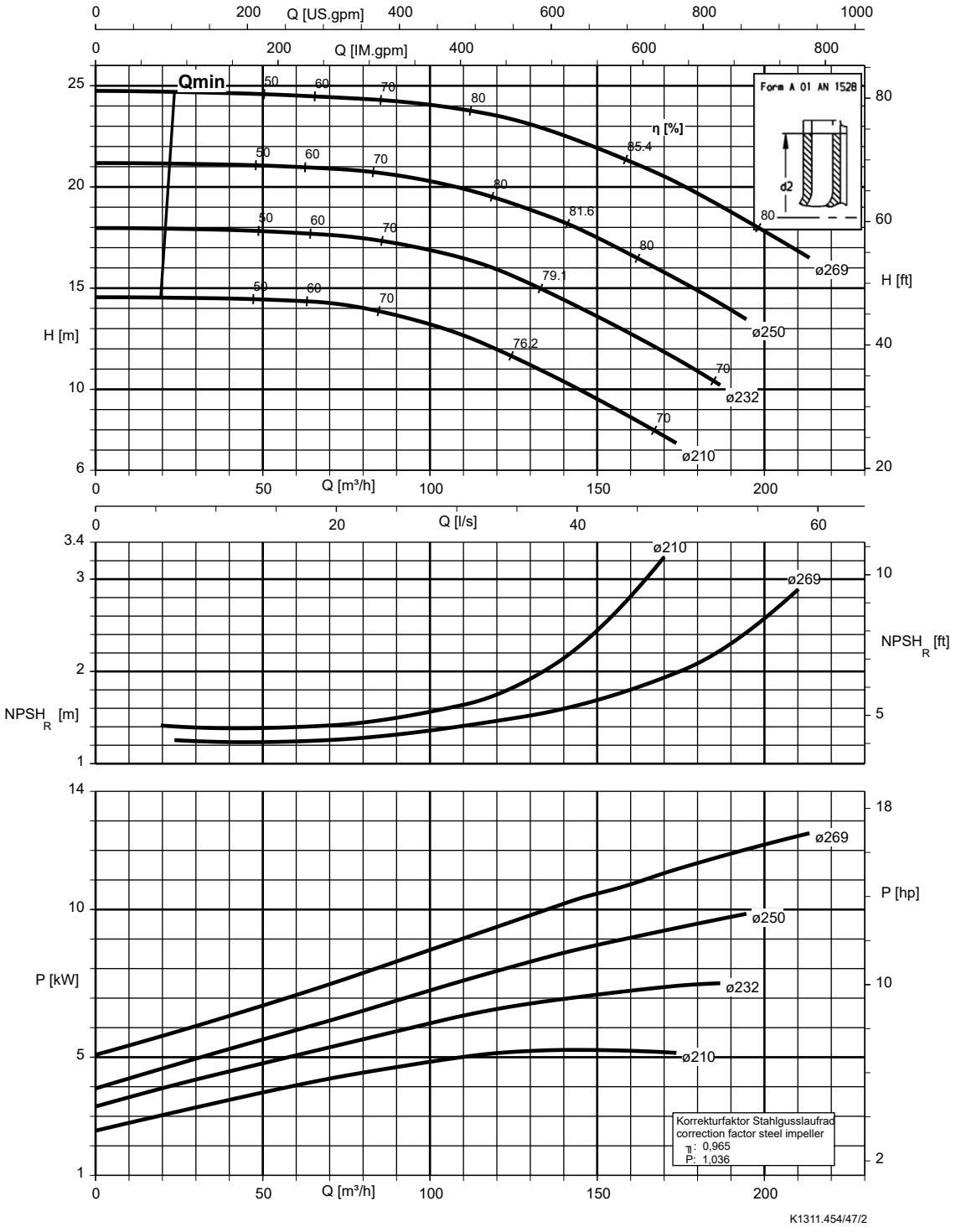
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 125-100-250, n = 1 450 t/min

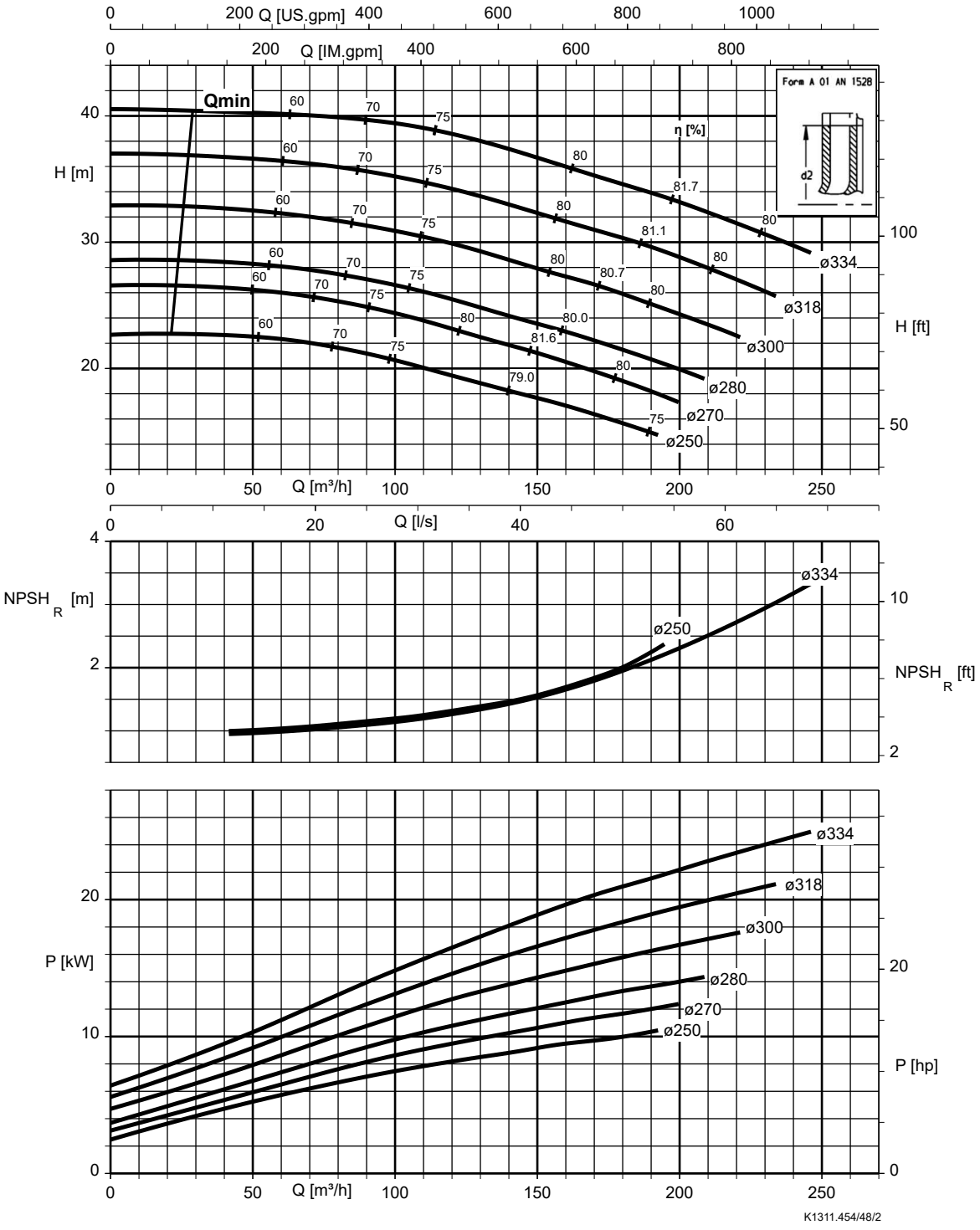
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 125-100-315, n = 1 450 t/min

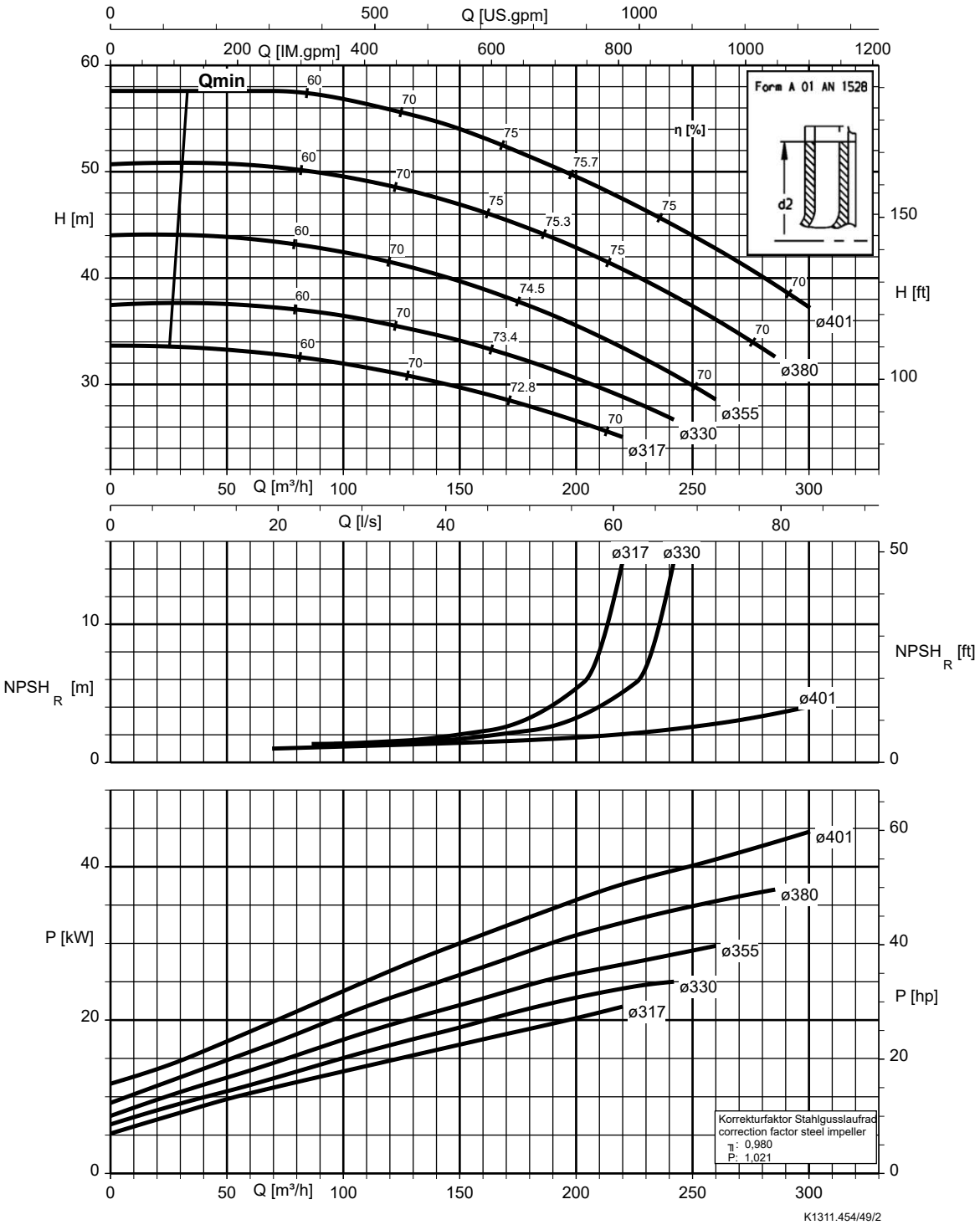
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 125-100-400, n = 1 450 t/min

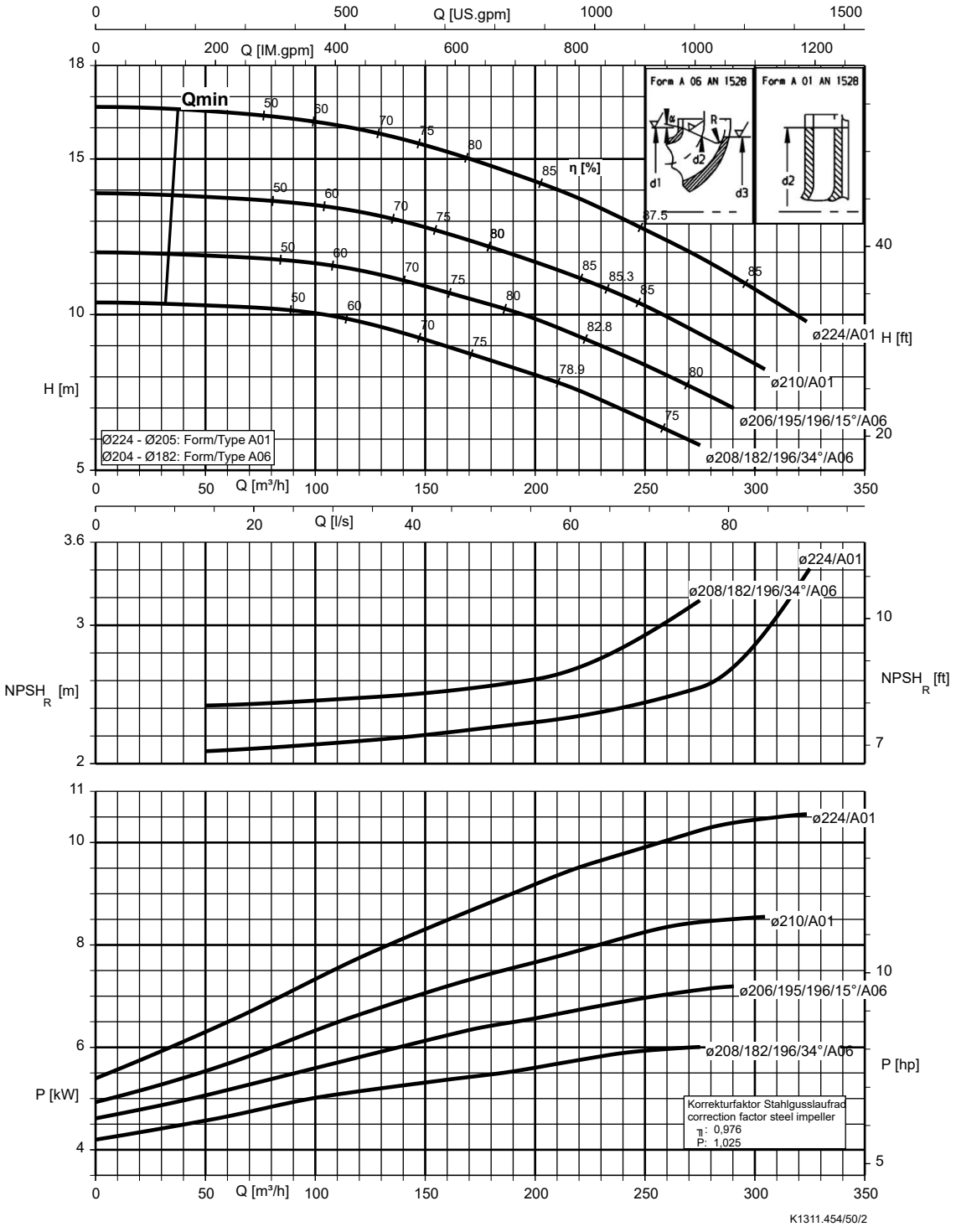
Etanorm V, Etabloc



1311.45/12-FR

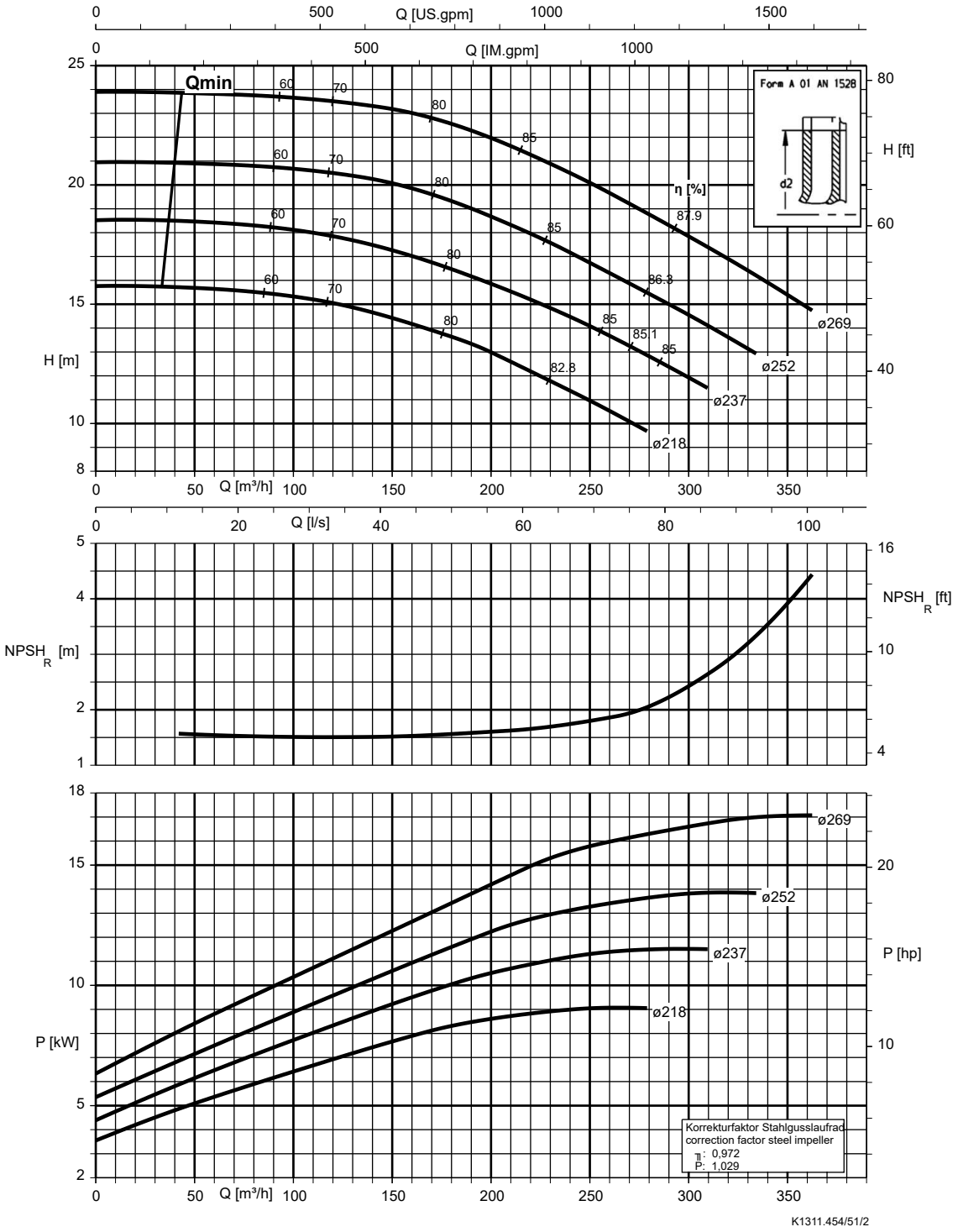
Etanorm 150-125-200, n = 1 450 t/min

Etanorm SYT, Etanorm V, Etabloc



Etanorm 150-125-250, n = 1 450 t/min

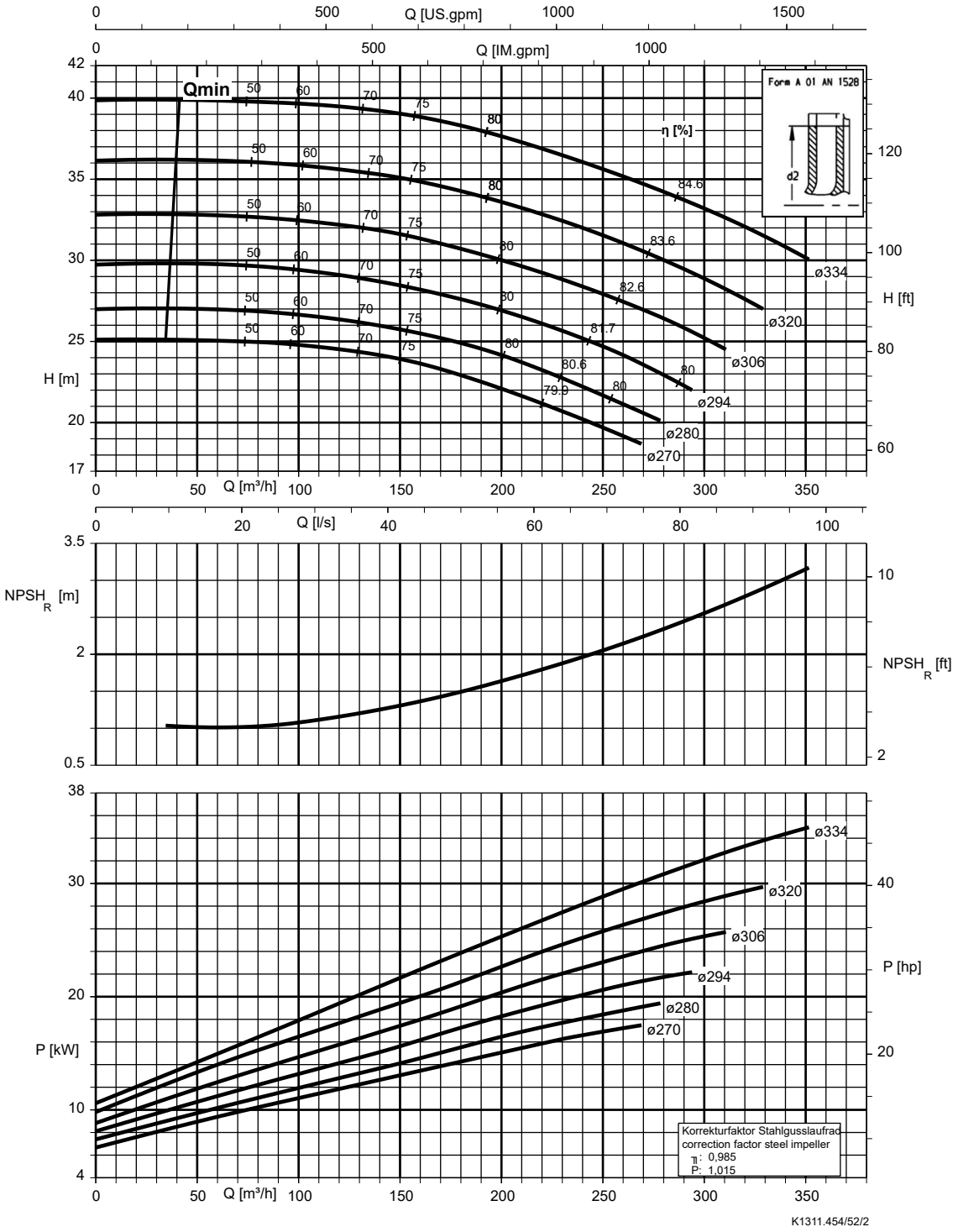
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

Etanorm 150-125-315, n = 1 450 t/min

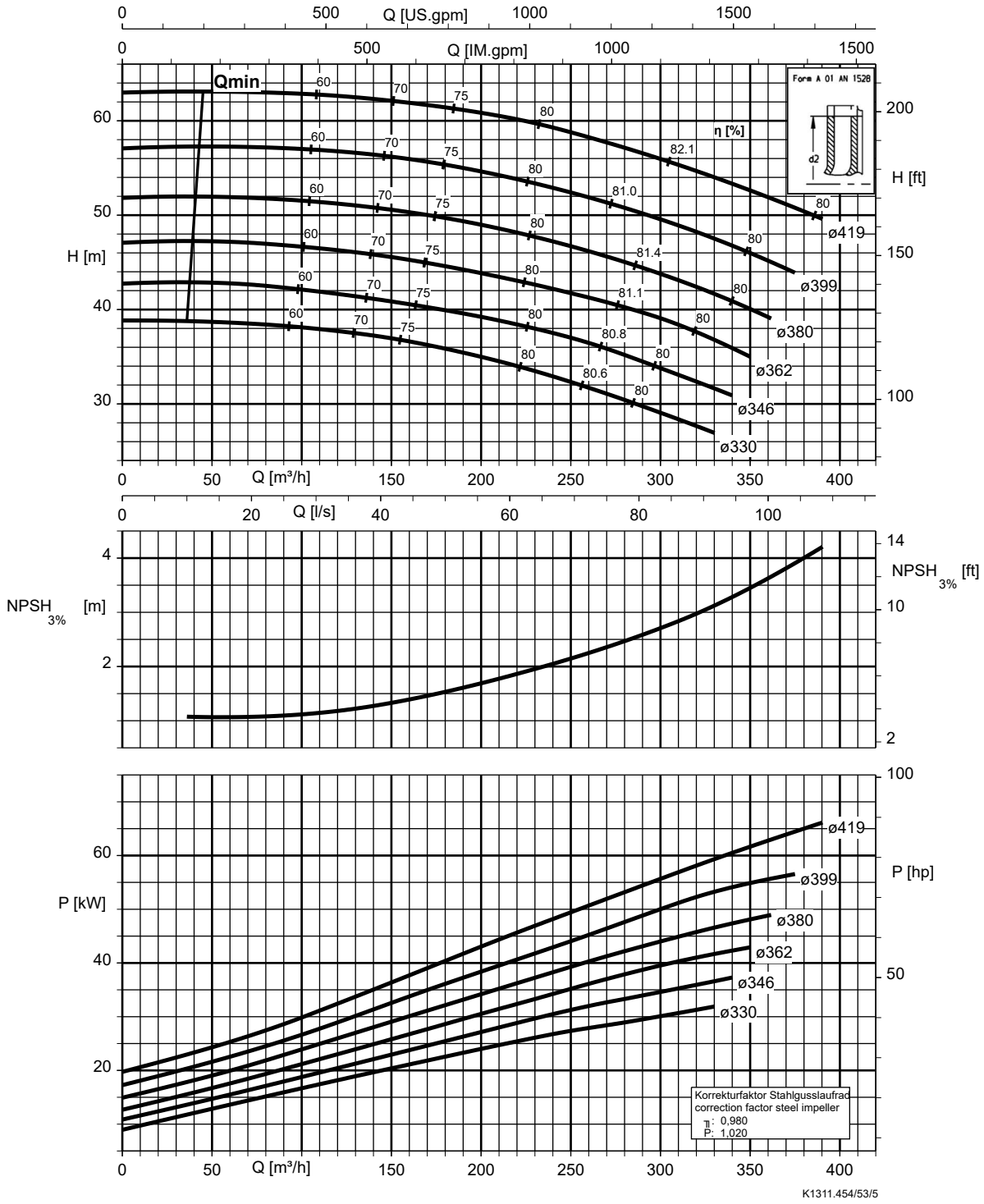
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

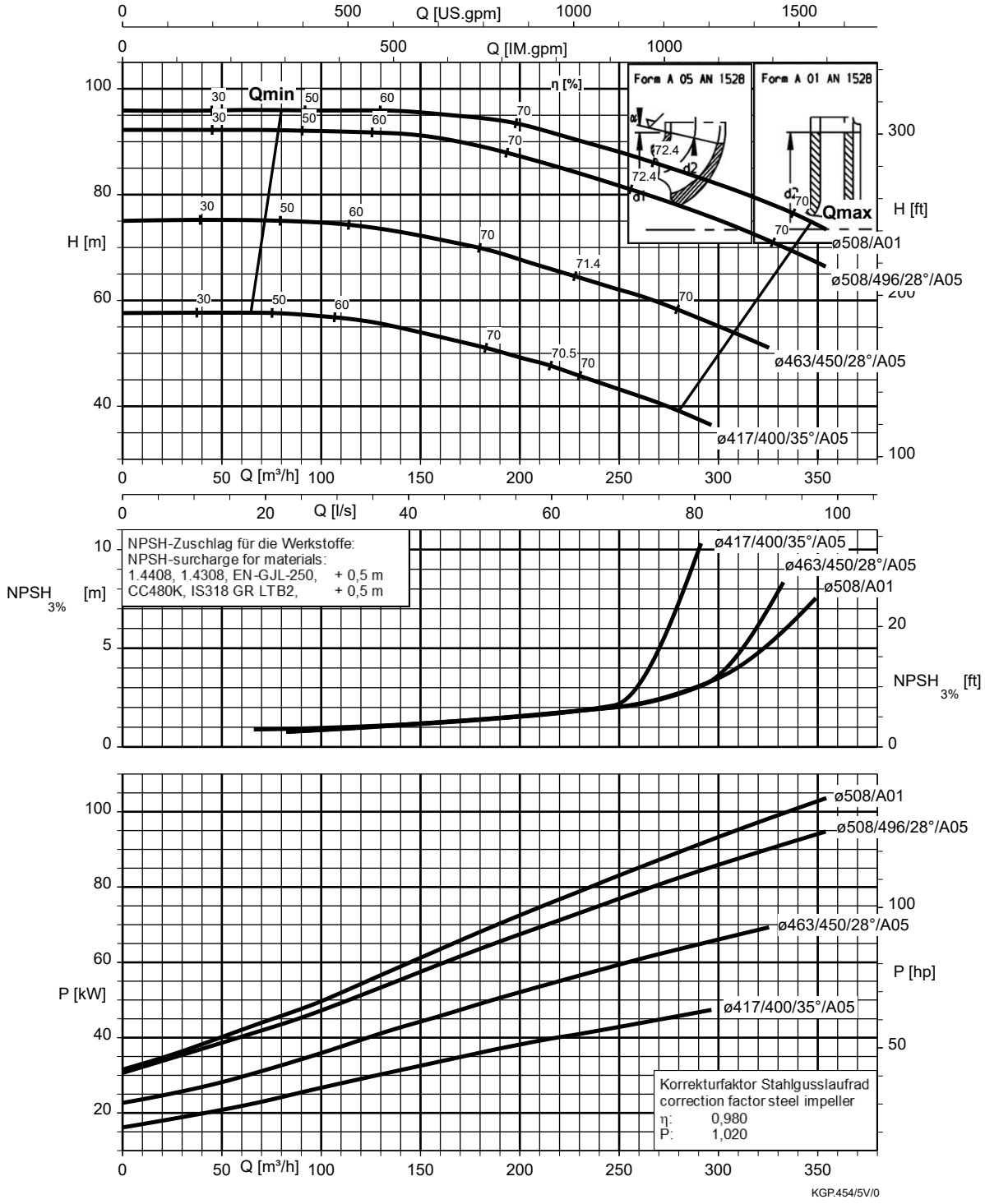
Etanorm 150-125-400, n = 1 450 t/min

Etanorm SYT, Etanorm V, Etabloc



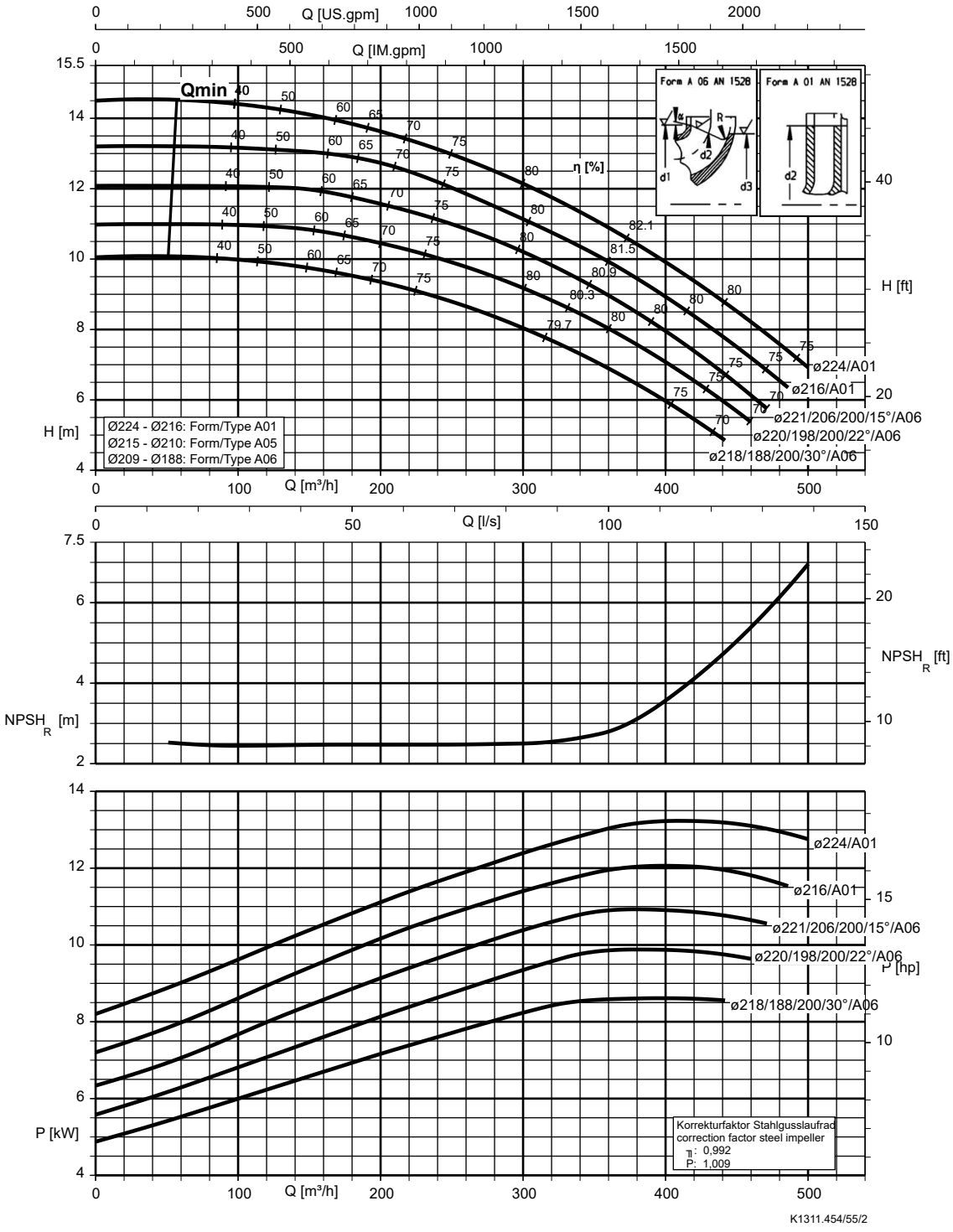
1311.45/12-FR

Etanorm 150-125-510, n = 1450 t/min



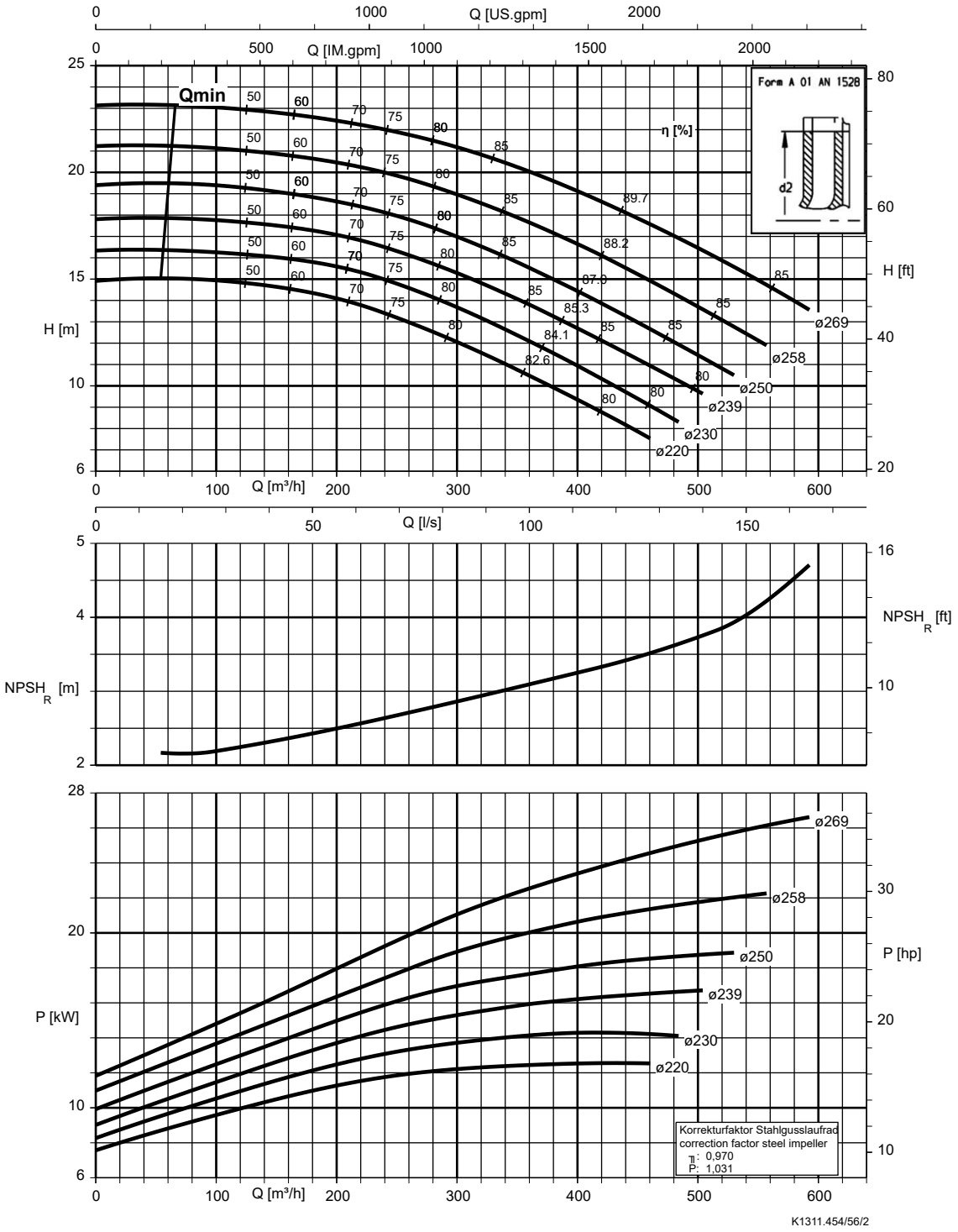
Etanorm 200-150-200, n = 1 450 t/min

Etanorm V, Etabloc



Etanorm 200-150-250, n = 1 450 t/min

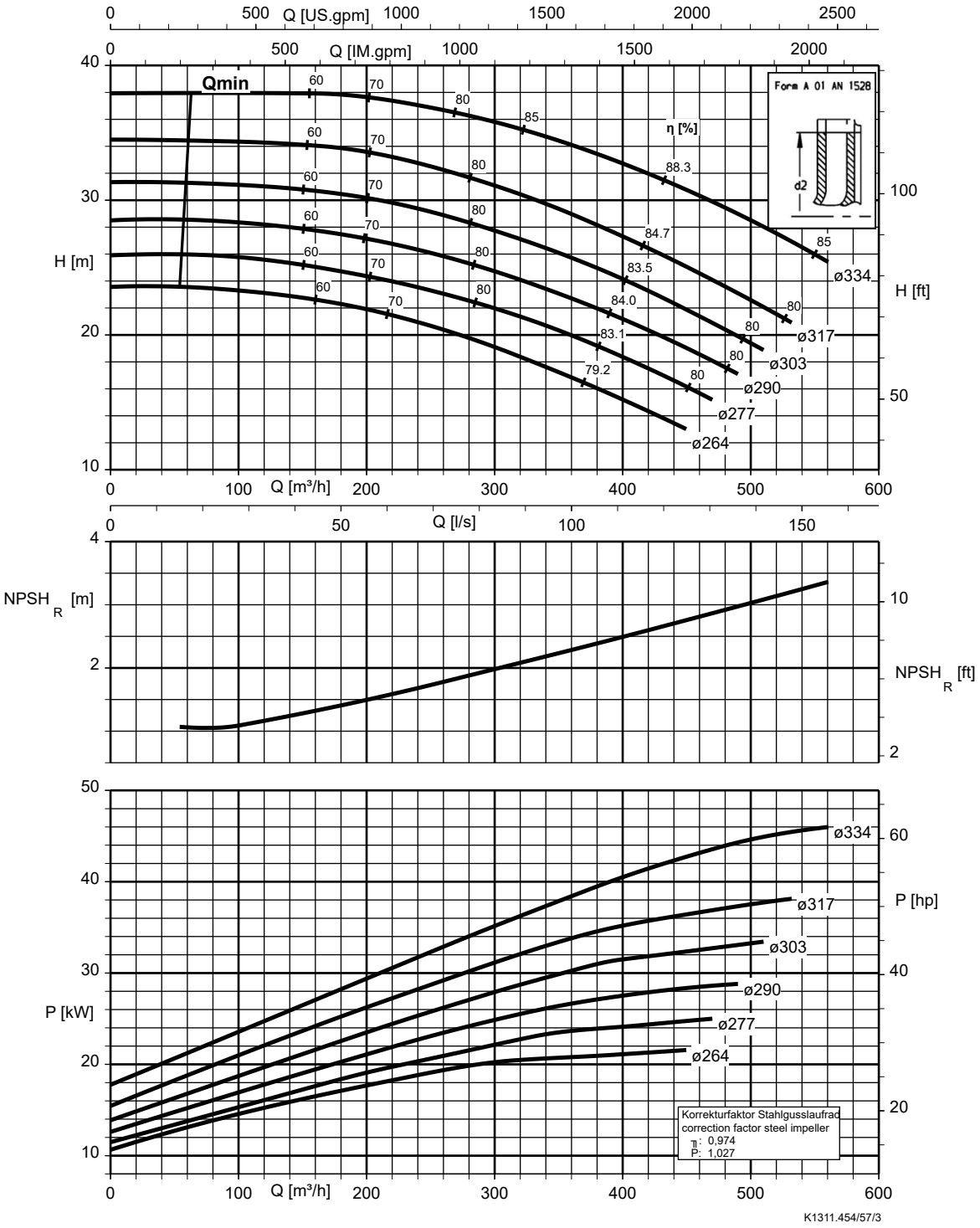
Etanorm V, Etabloc



1311.45/12-FR

Etanorm 200-150-315, n = 1 450 t/min

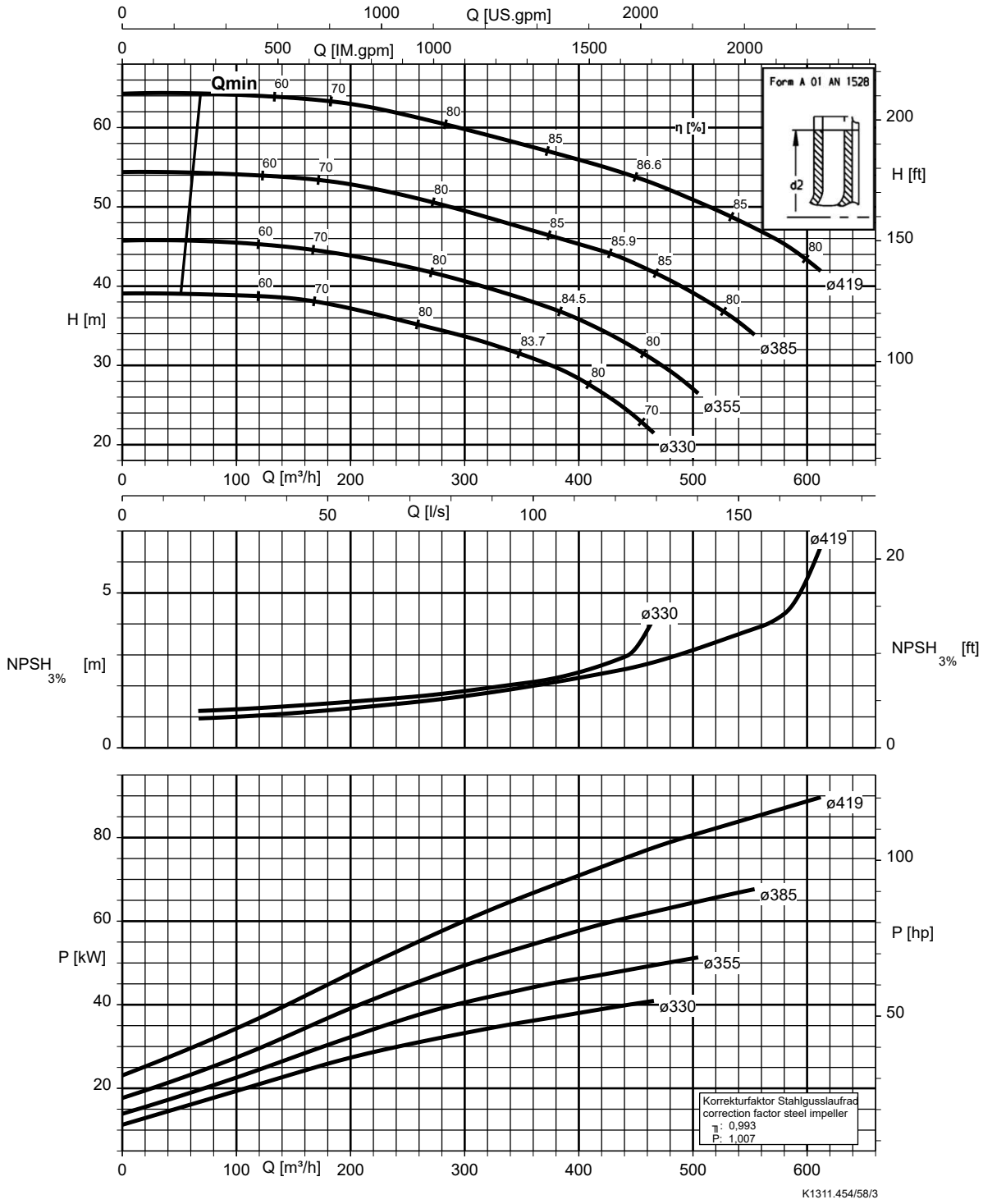
Etanorm SYT, Etanorm V, Etabloc



1311.45/12-FR

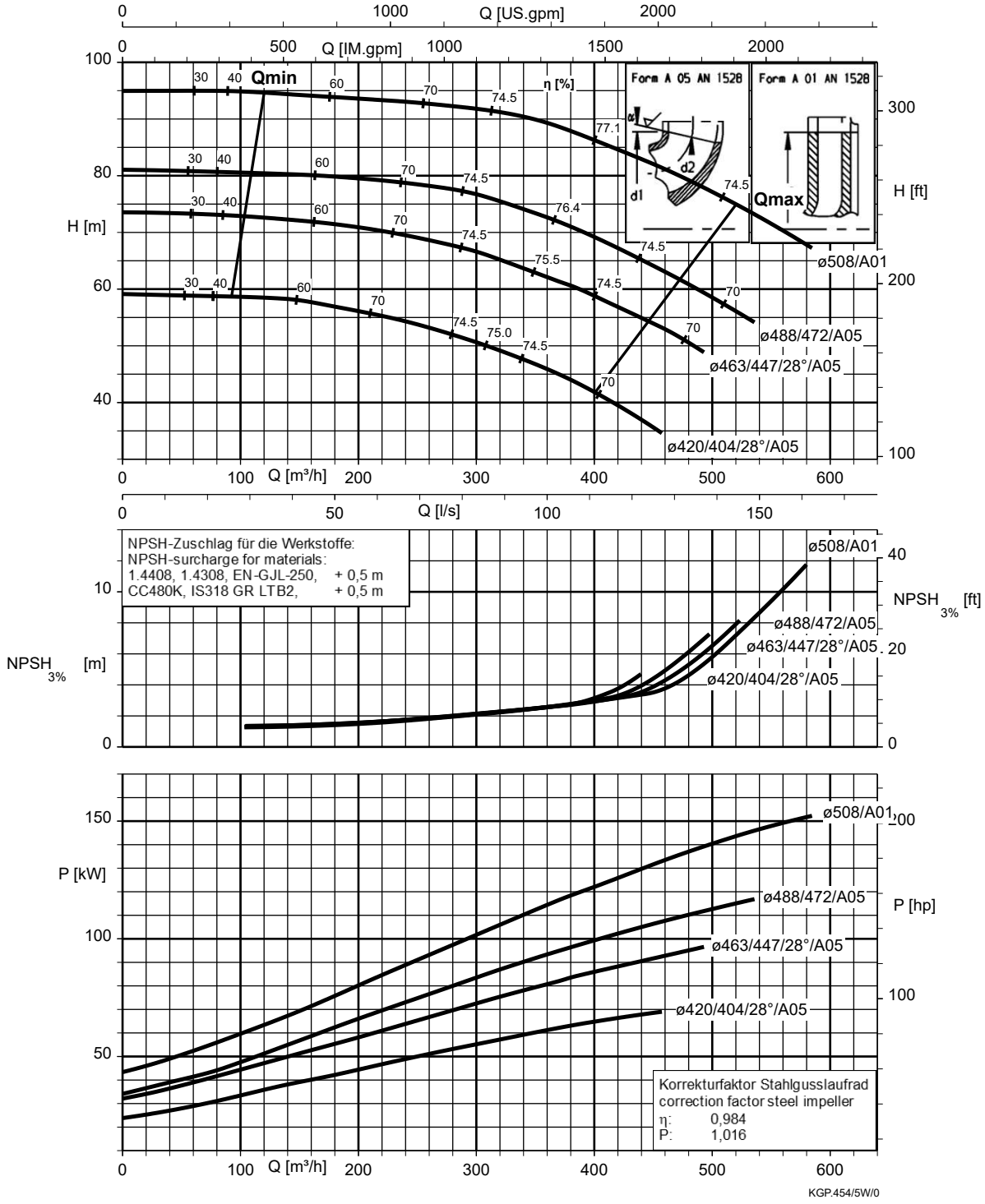
Etanorm 200-150-400, n = 1 450 t/min

Etanorm SYT, Etanorm V, Etabloc



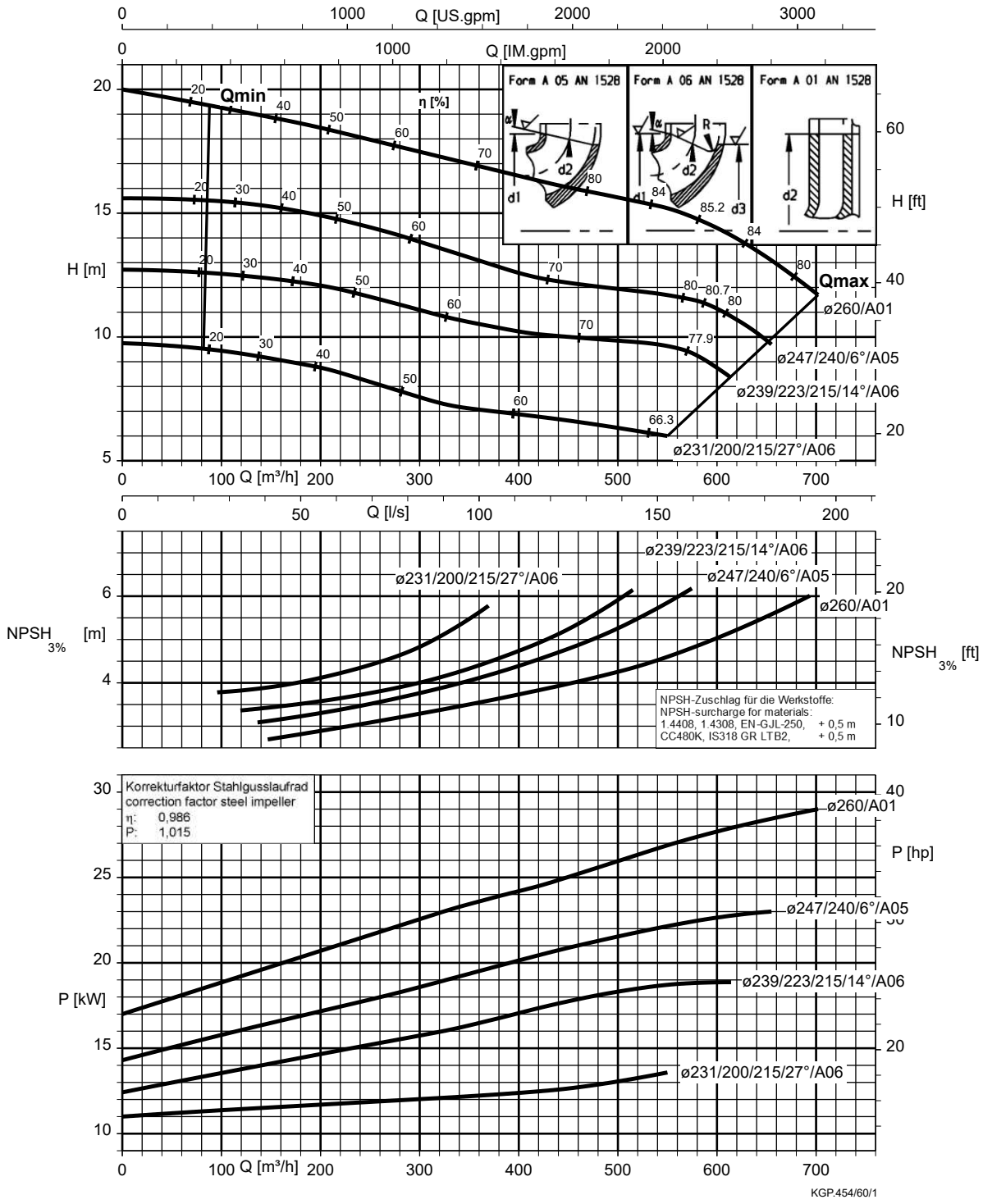
1311.45/12-FR

Etanorm 200-150-510, n = 1450 t/min

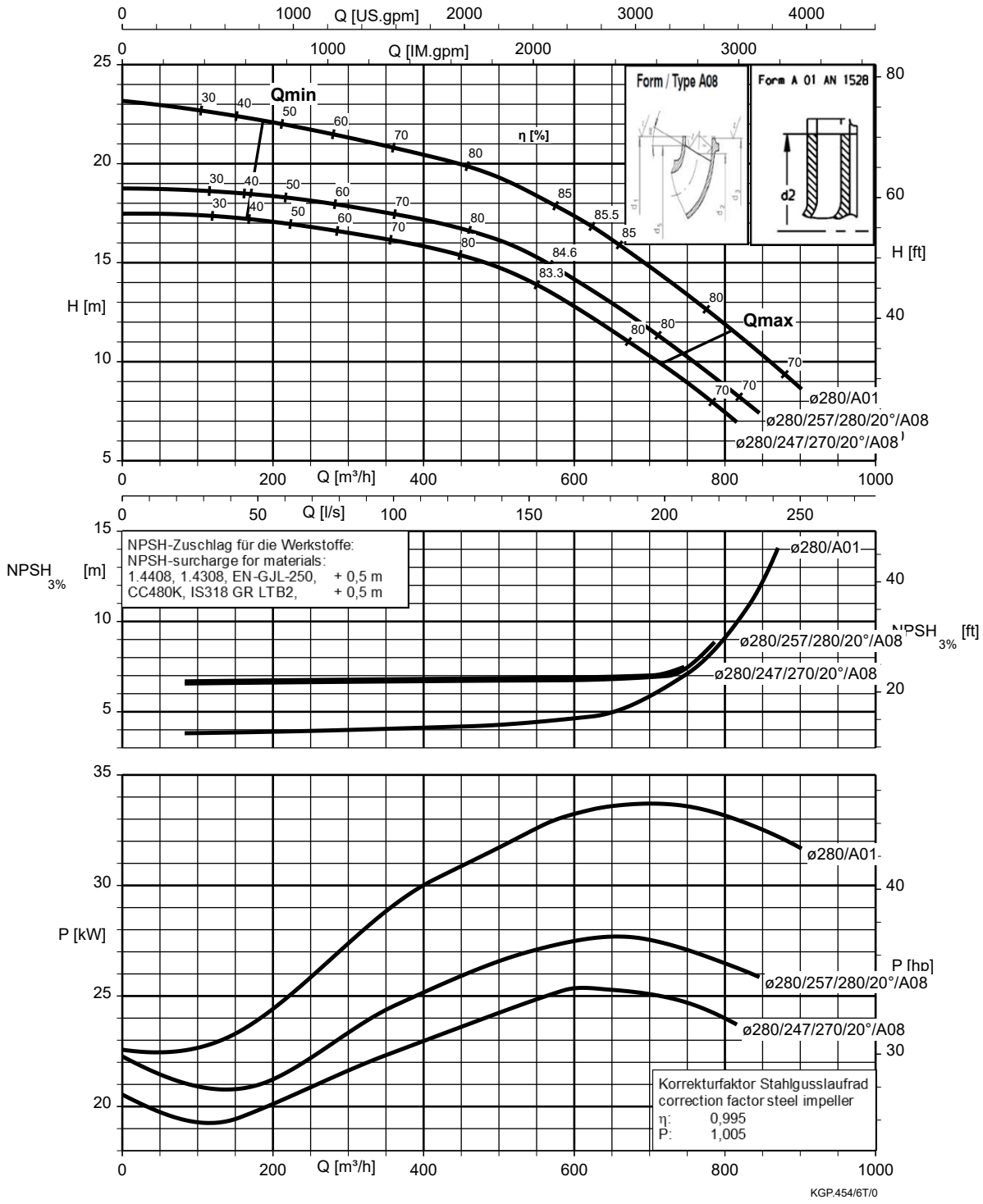


1311.45/12-FR

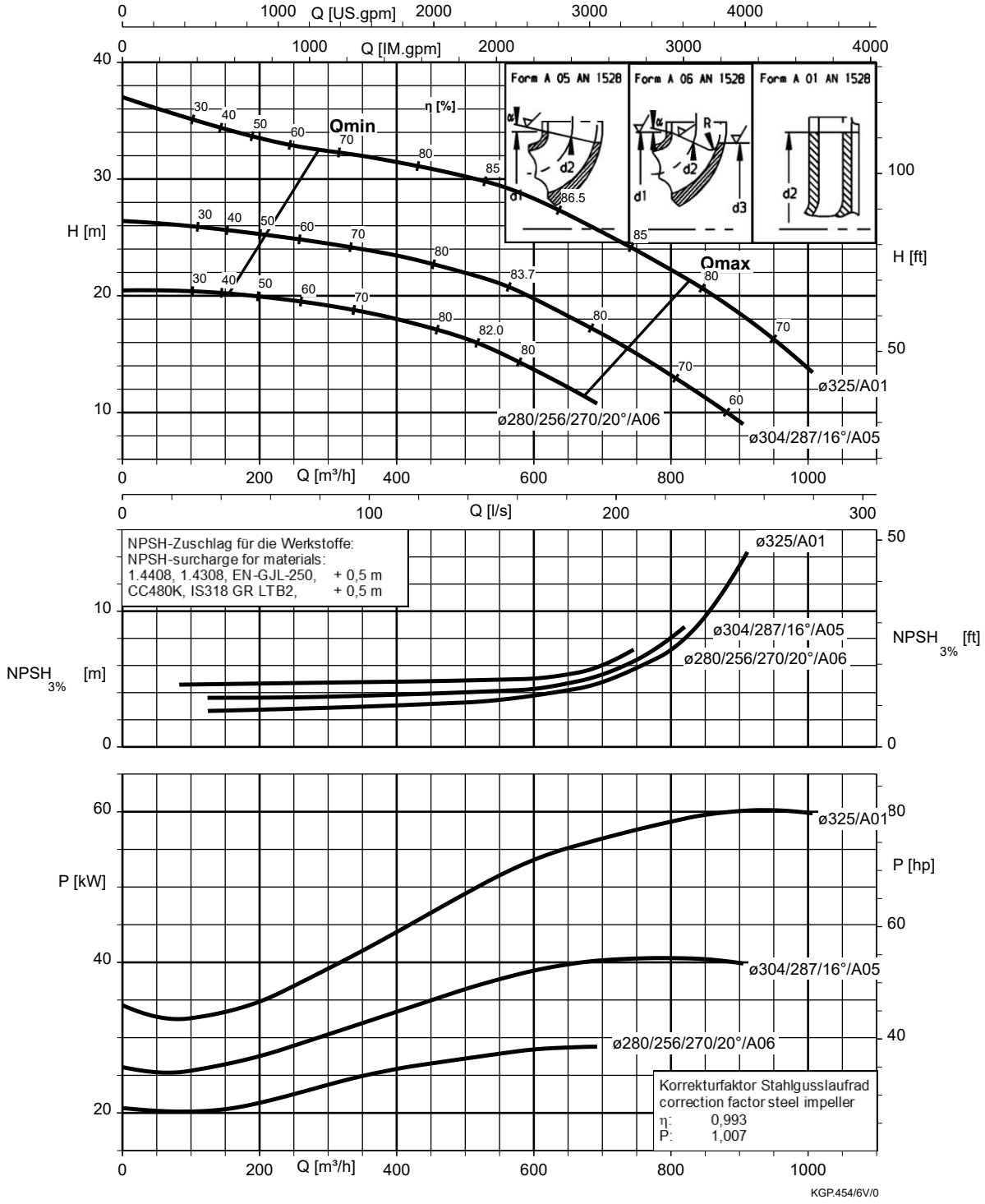
Etanorm 200-200-250, n = 1450 t/min



Etanorm 250-200-275, n = 1450 t/min

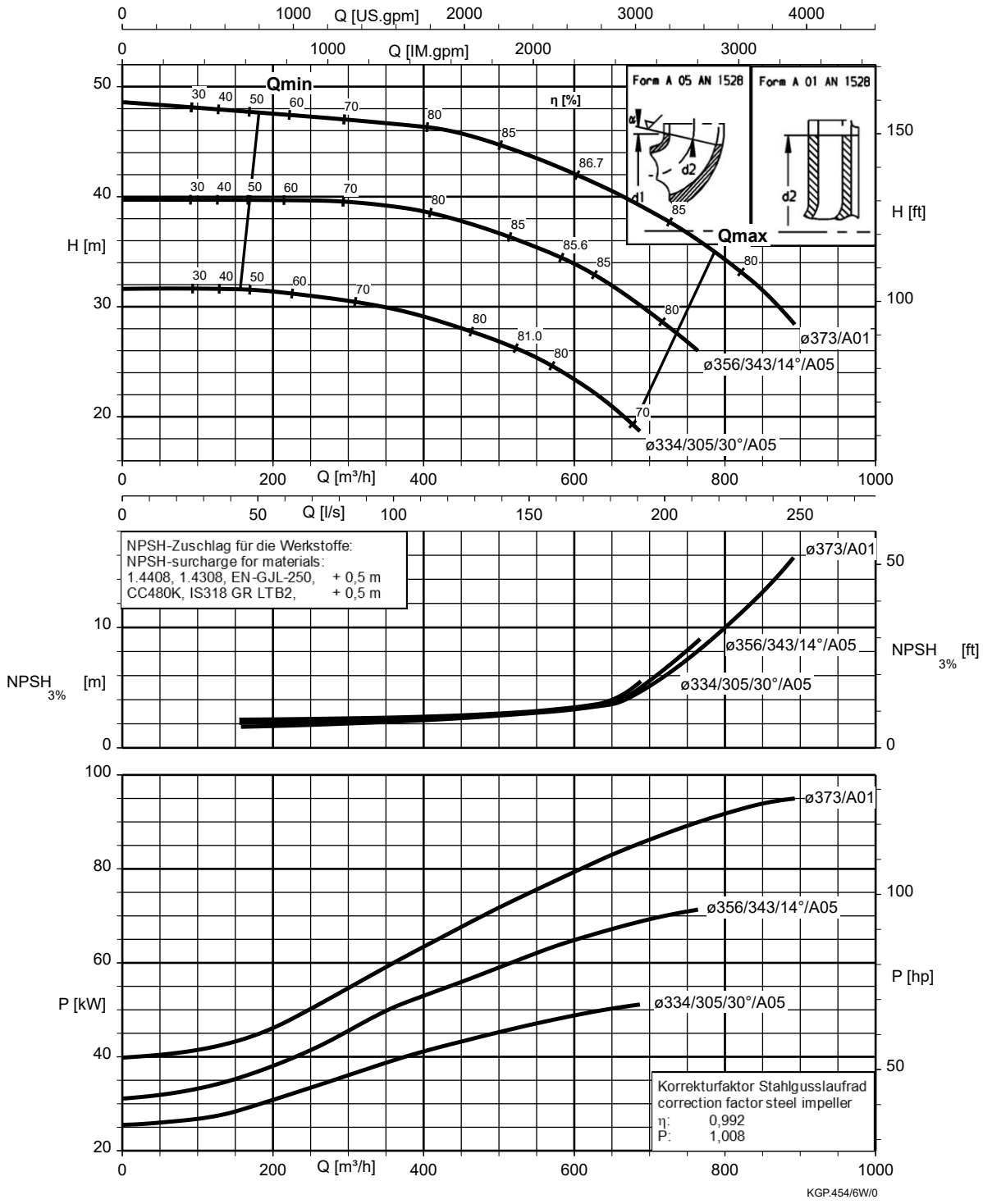


Etanorm 250-200-320, n = 1450 t/min



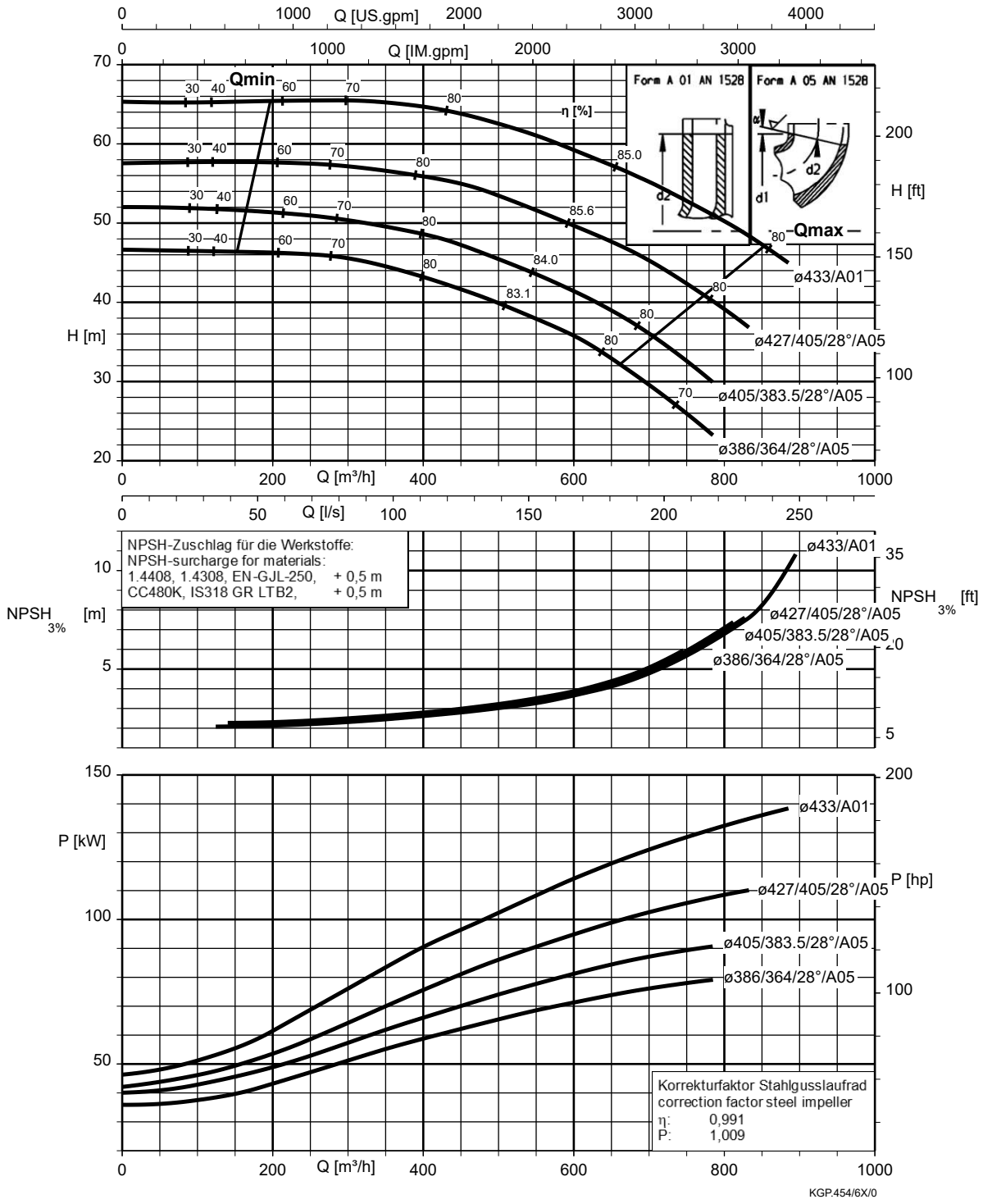
1311.45/12-FR

Etanorm 250-200-375, n = 1450 t/min

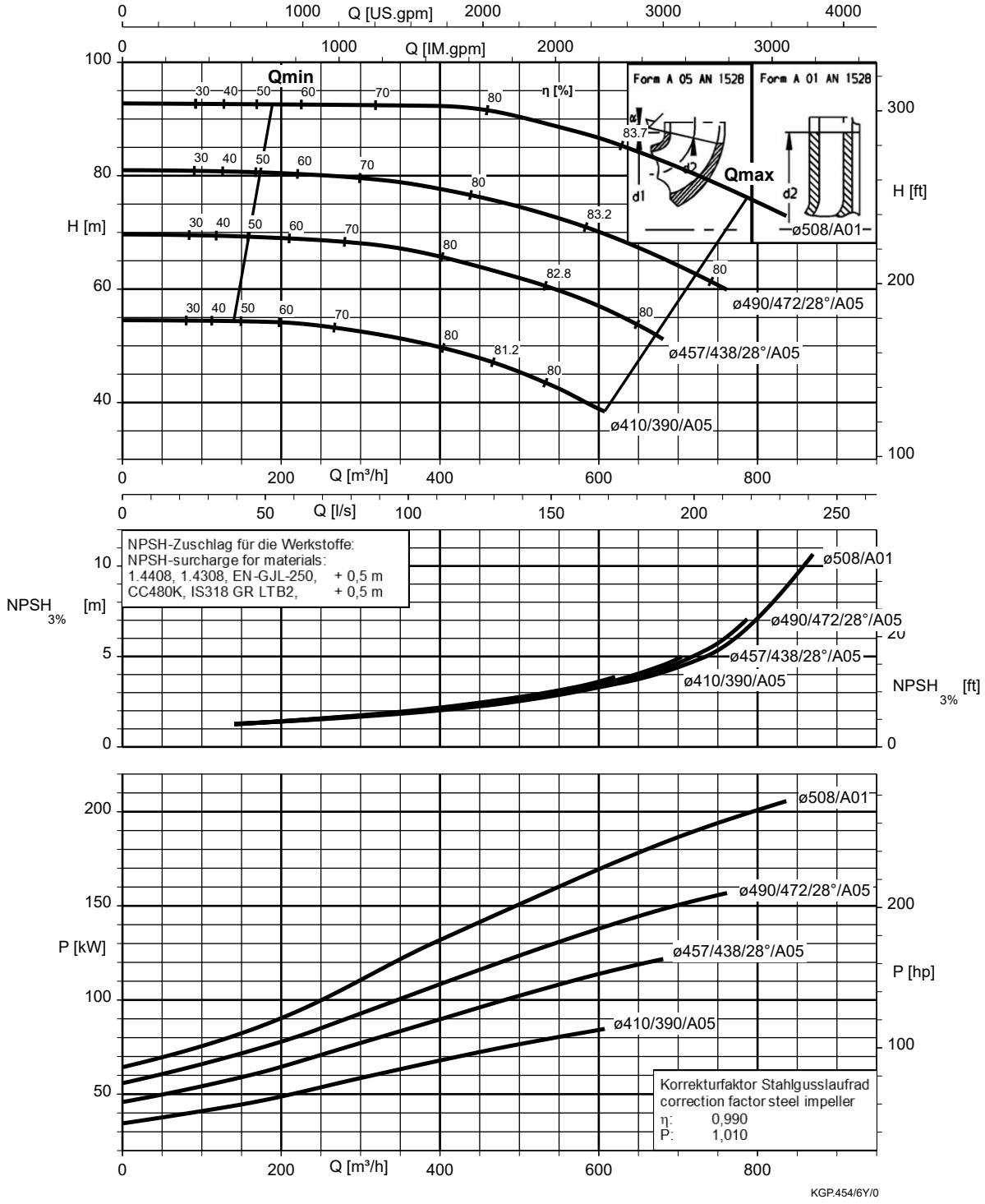


1311.45/12-FR

Etanorm 250-200-435 , n = 1450 t/min

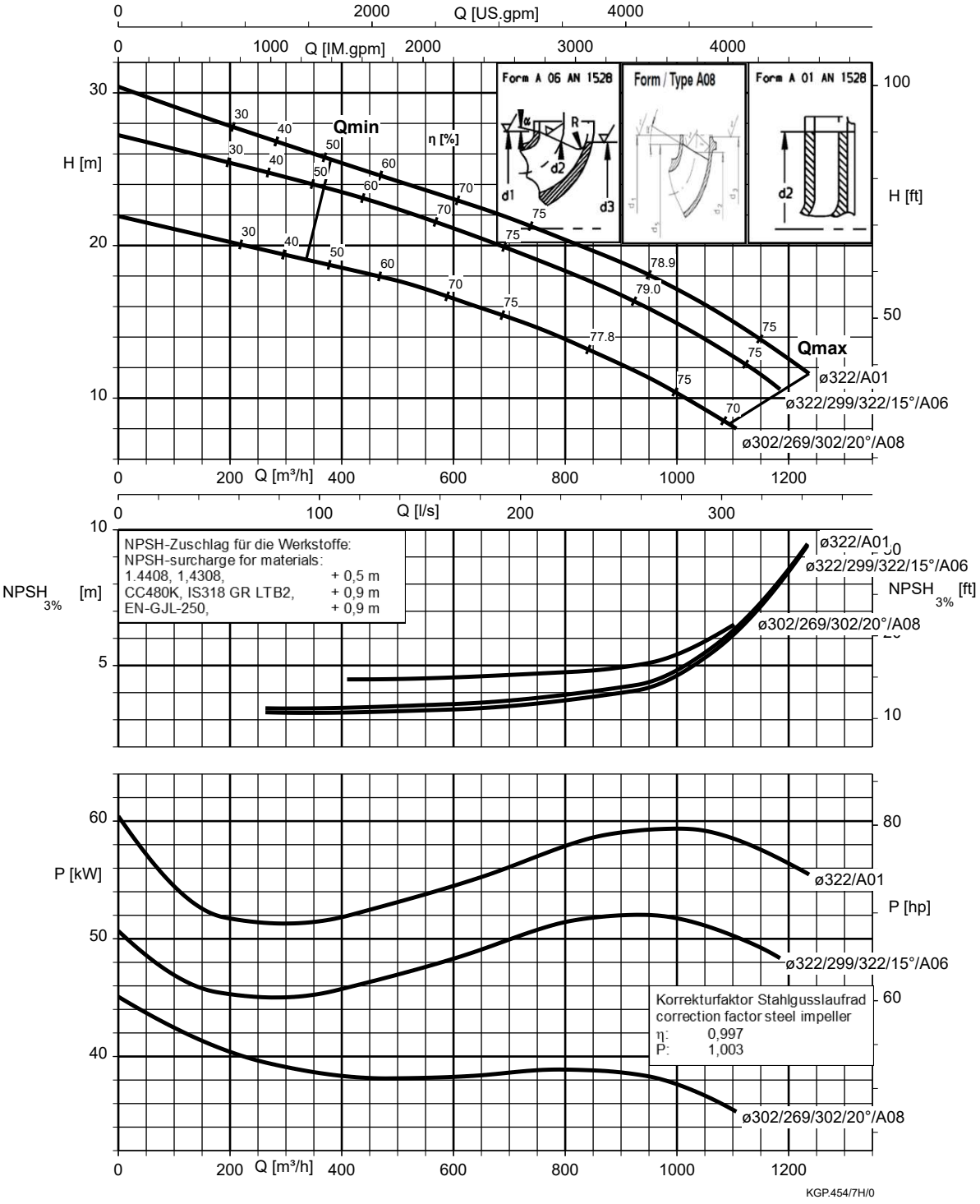


Etanorm 250-200-510 , n = 1450 t/min

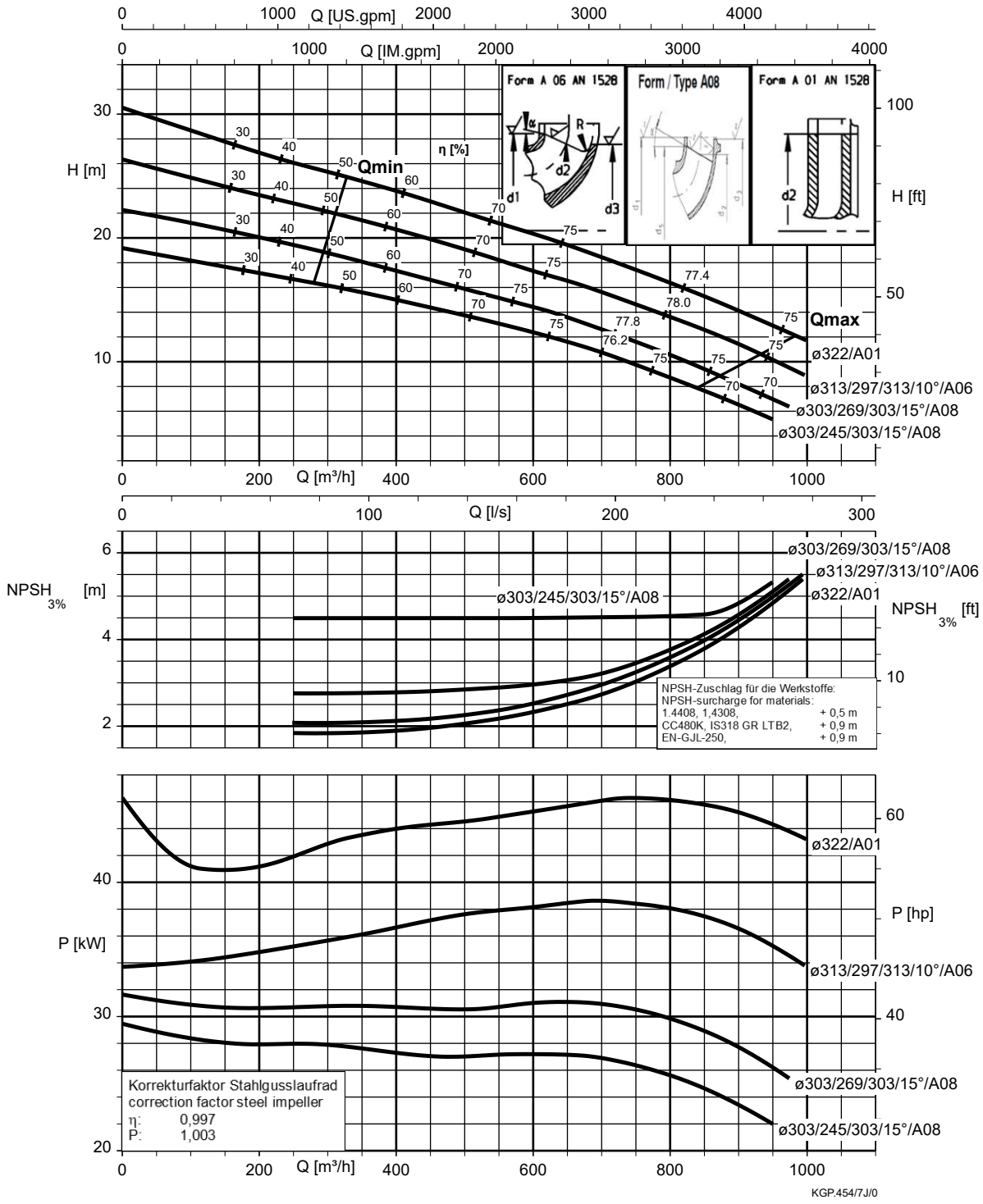


1311.45/12-FR

Etanorm 300-250-295, n = 1450 t/min

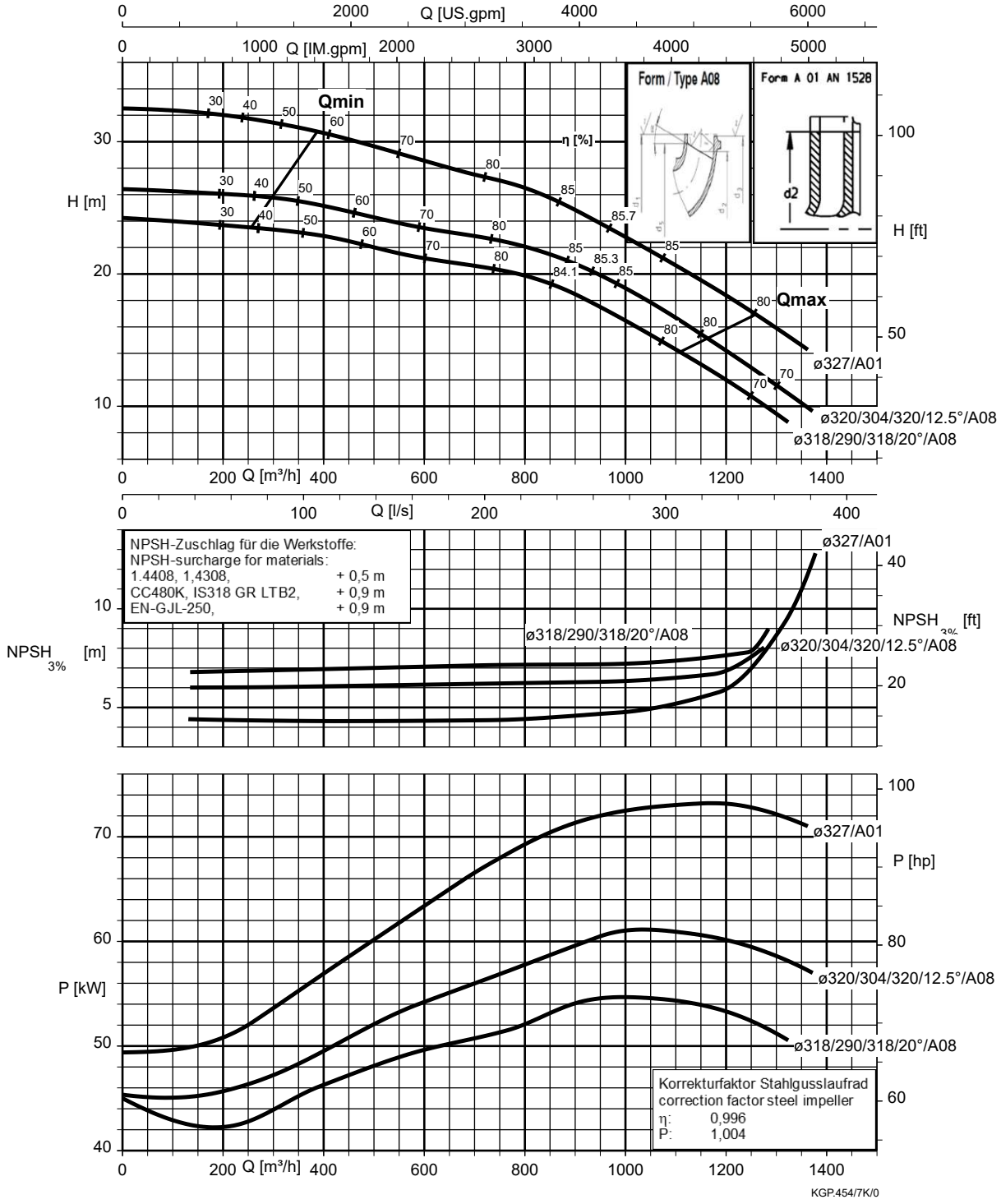


Etanorm 300-250-295.1 , n = 1450 t/min

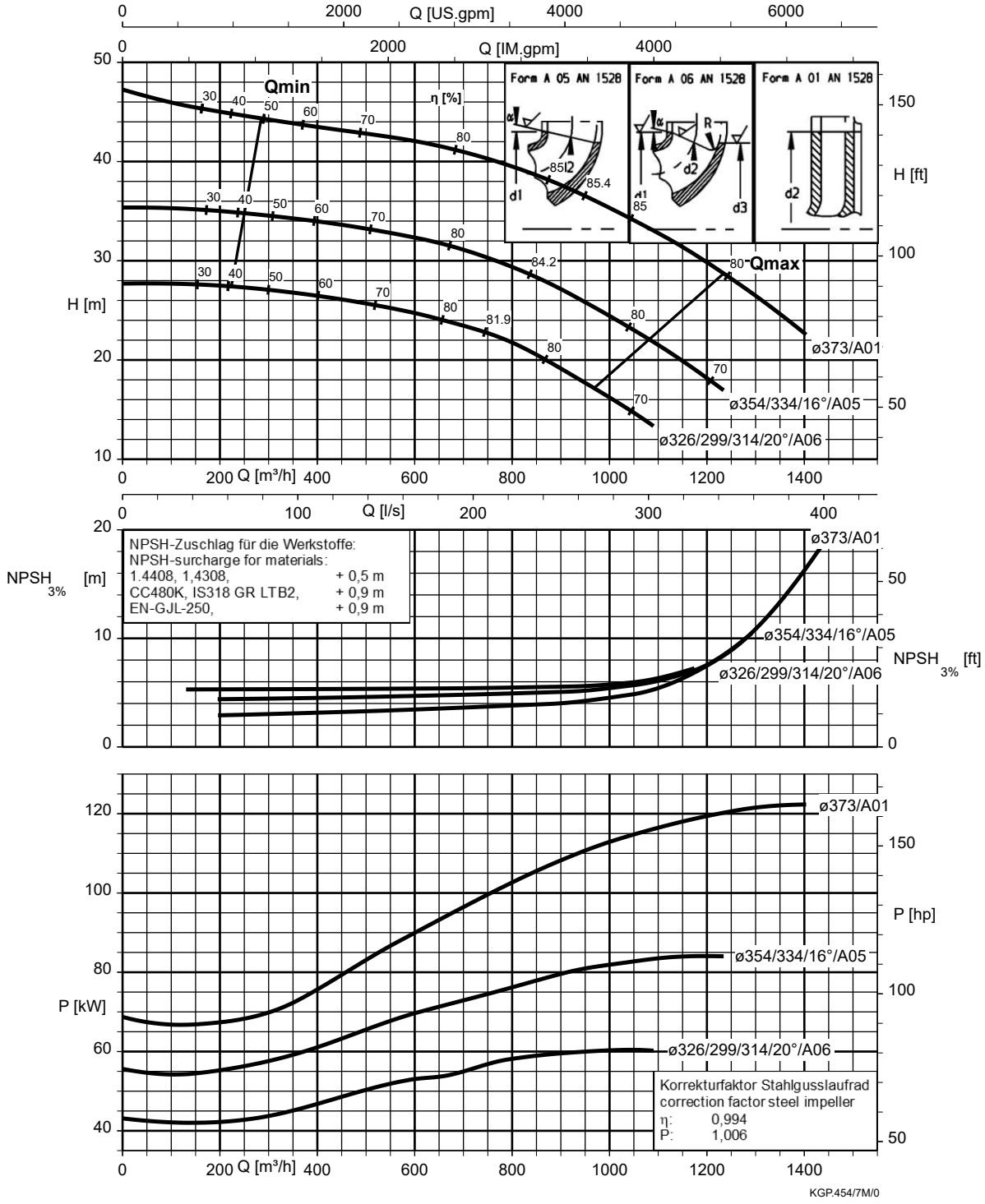


1311.45/12-FR

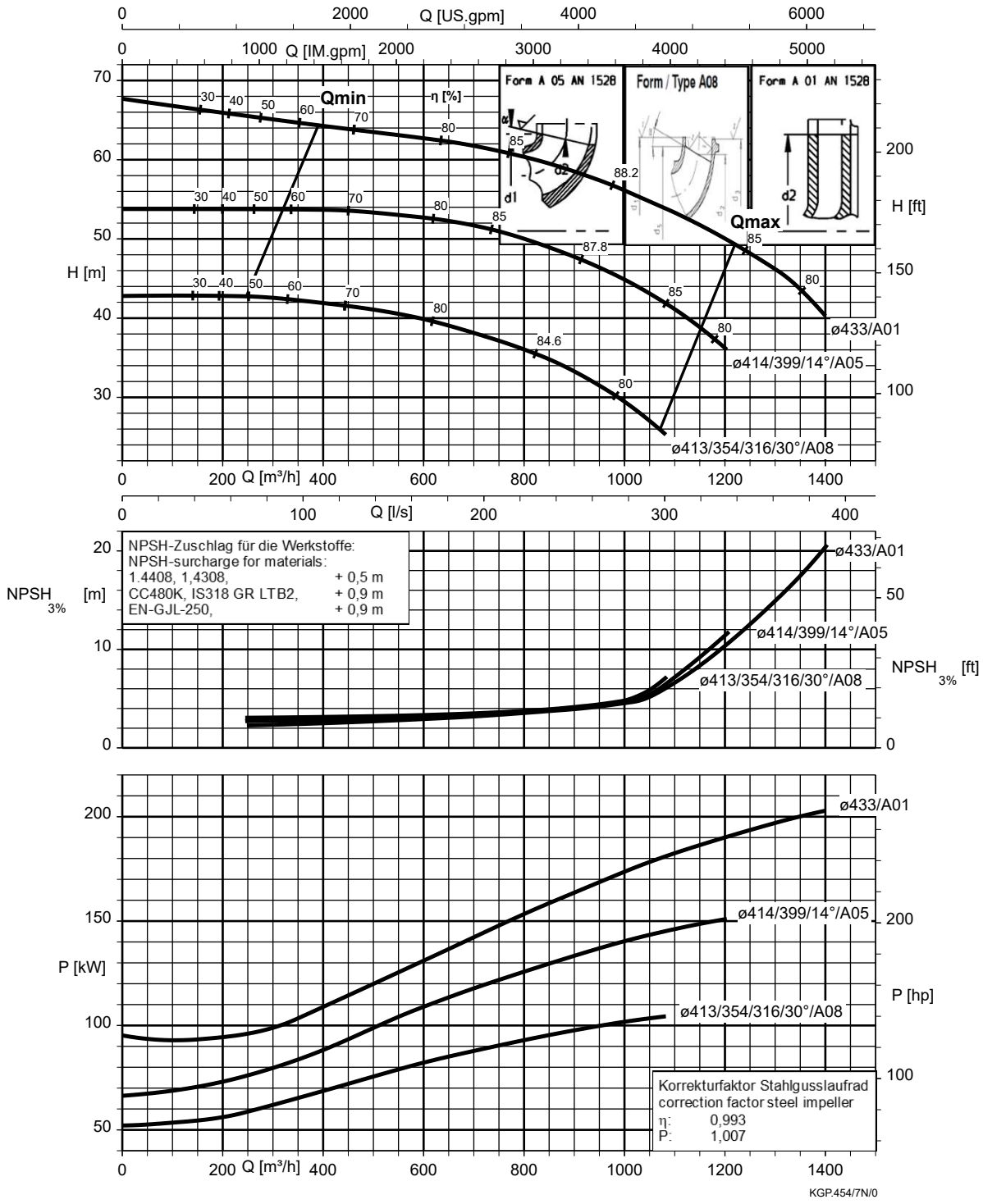
Etanorm 300-250-320 , n = 1450 t/min



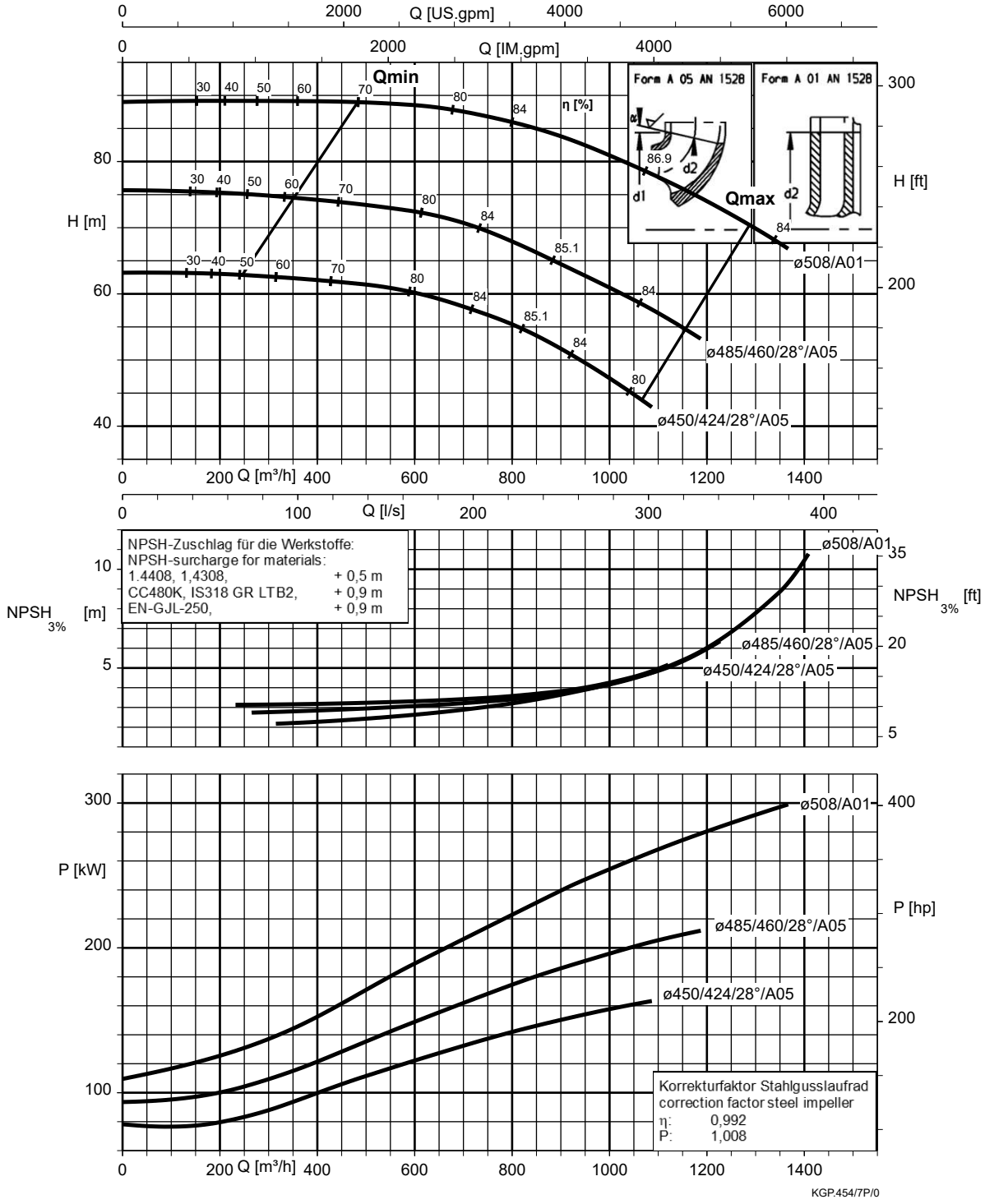
Etanorm 300-250-375, n = 1450 t/min



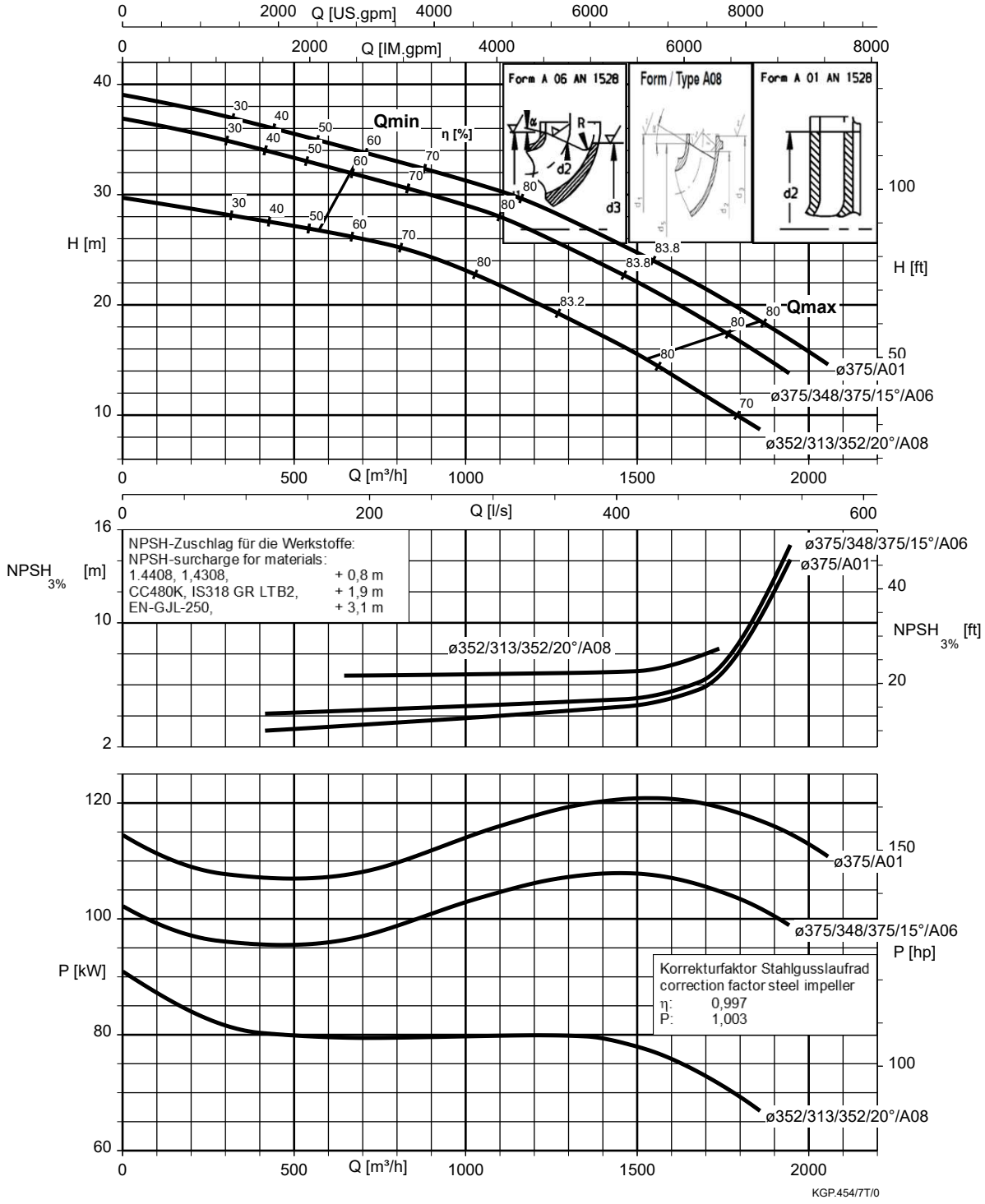
Etanorm 300-250-435 , n = 1450 t/min



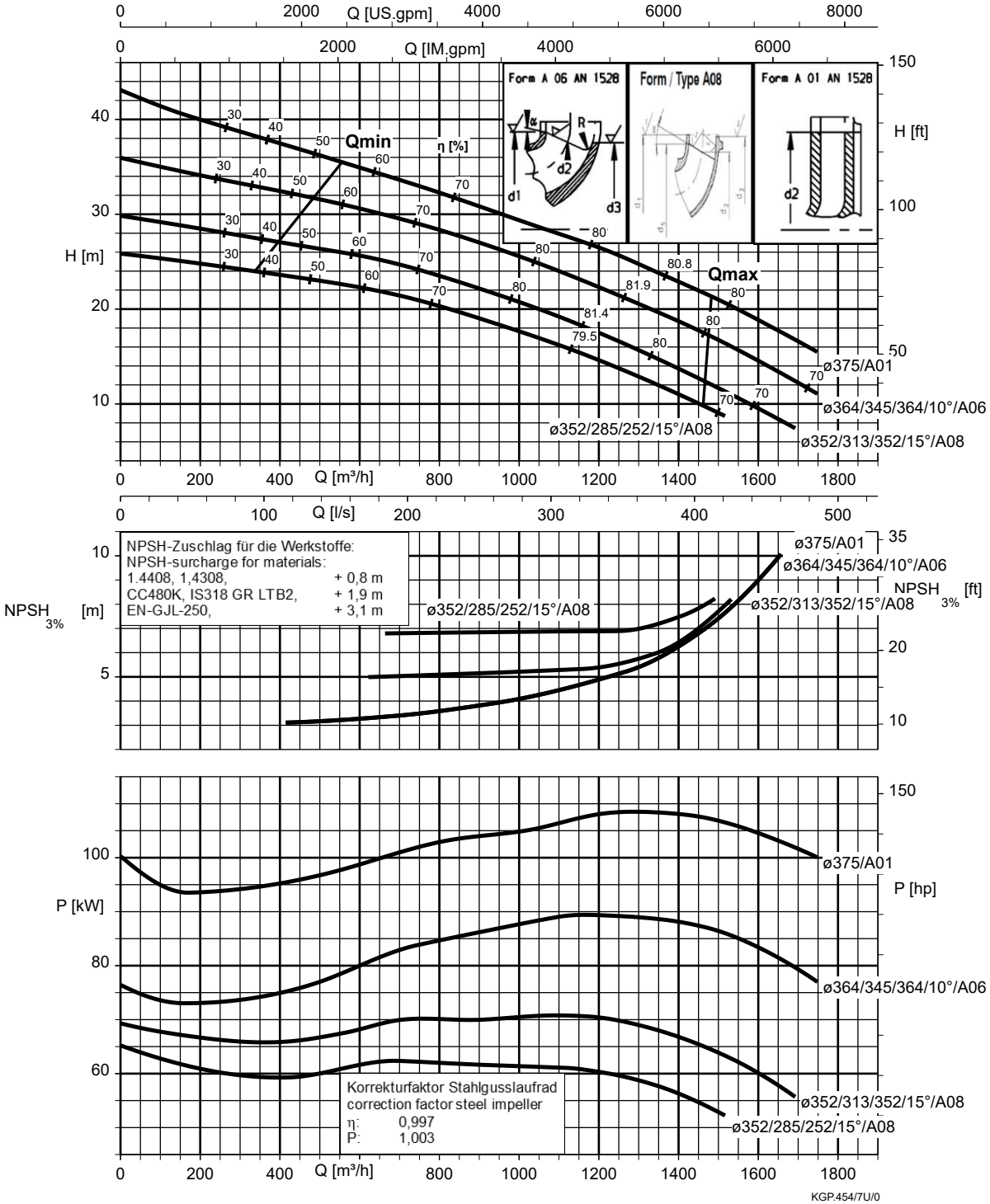
Etanorm 300-250-510, n = 1450 t/min



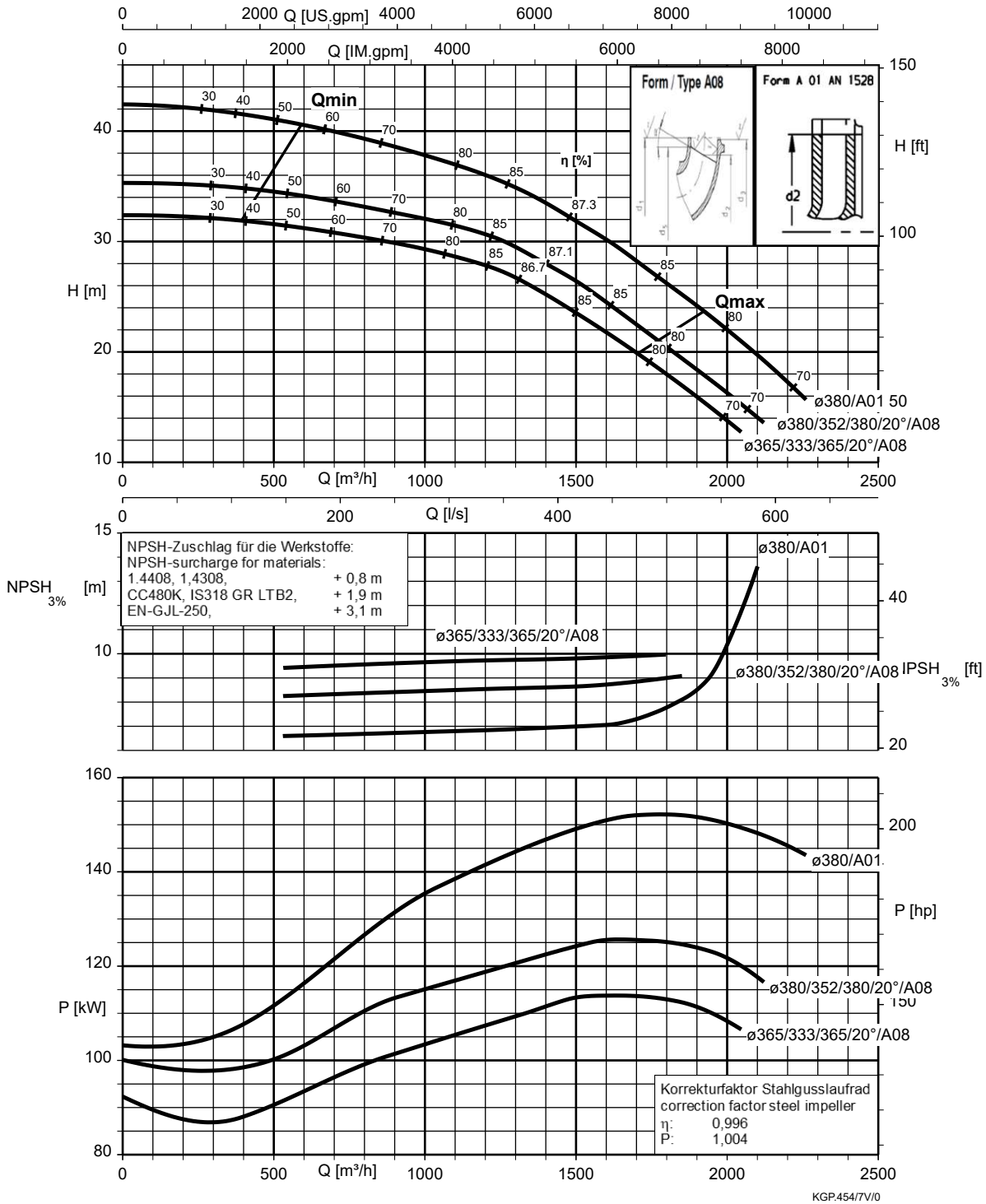
Etanorm 350-300-350, n = 1450 t/min



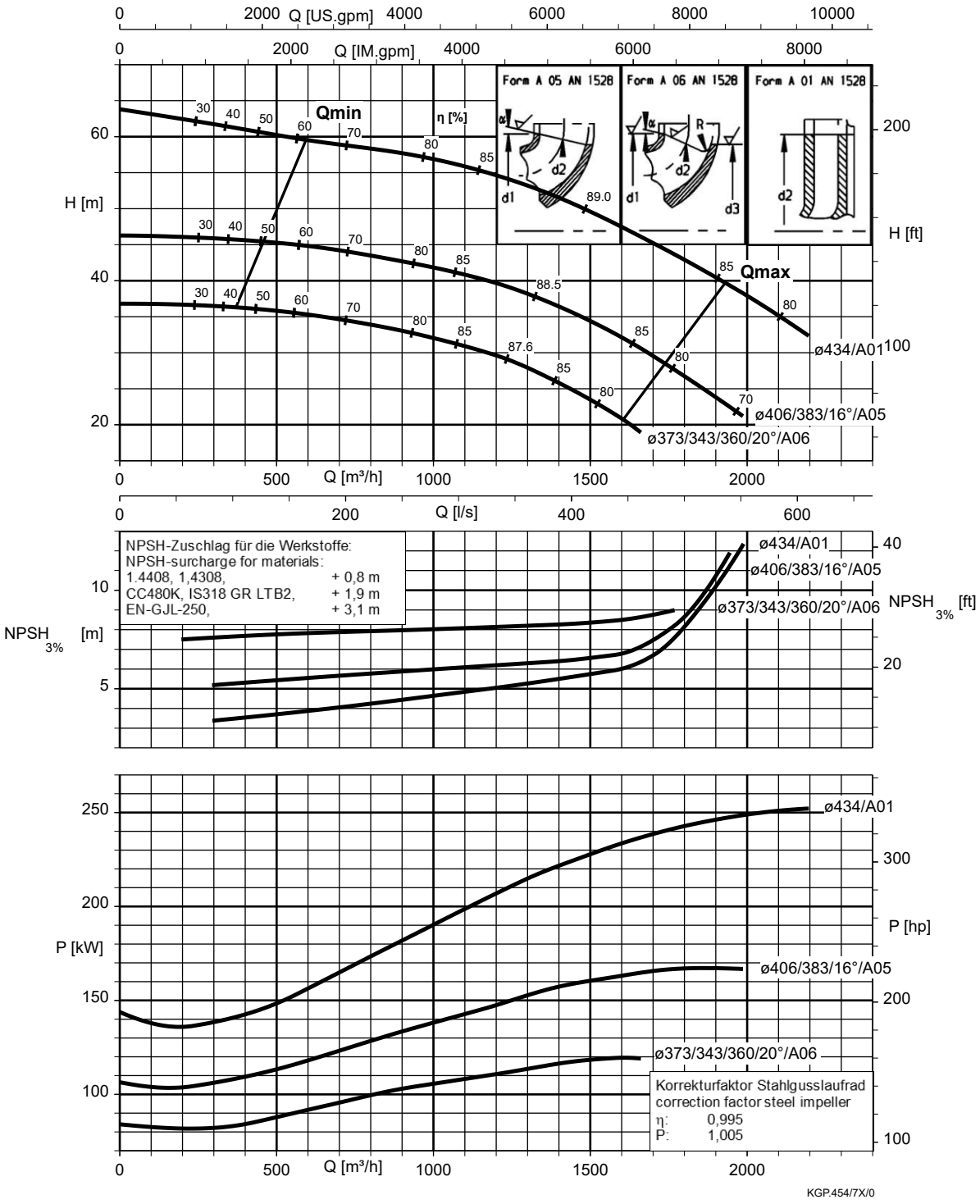
Etanorm 350-300-350.1 , n = 1450 t/min



Etanorm 350-300-375, n = 1450 t/min

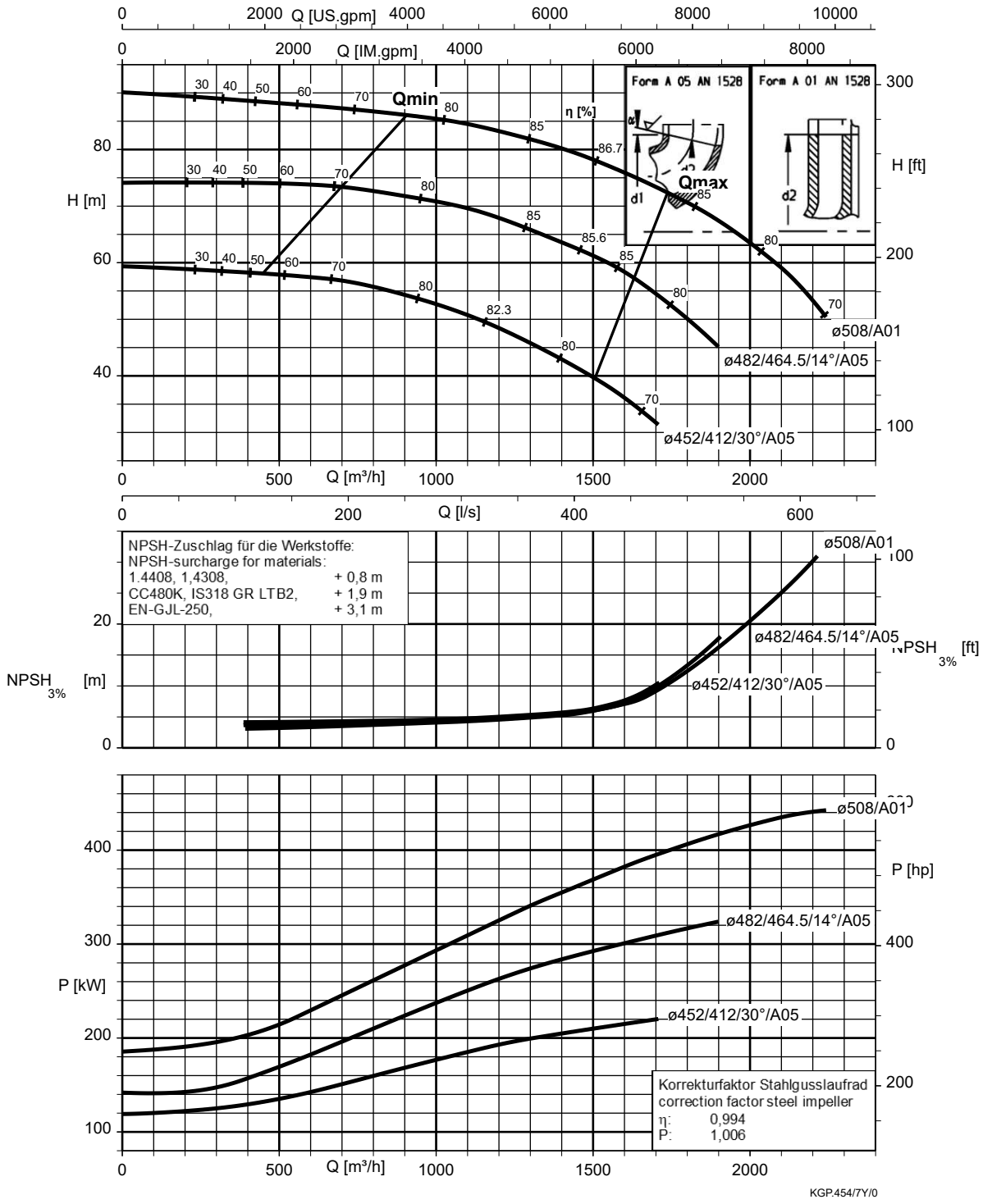


Etanorm 350-300-435 , n = 1450 t/min



1311.45/12-FR

Etanorm 350-300-510 , n = 1450 t/min



Etanorm-RSY 125-500.2, n = 1450 t/min

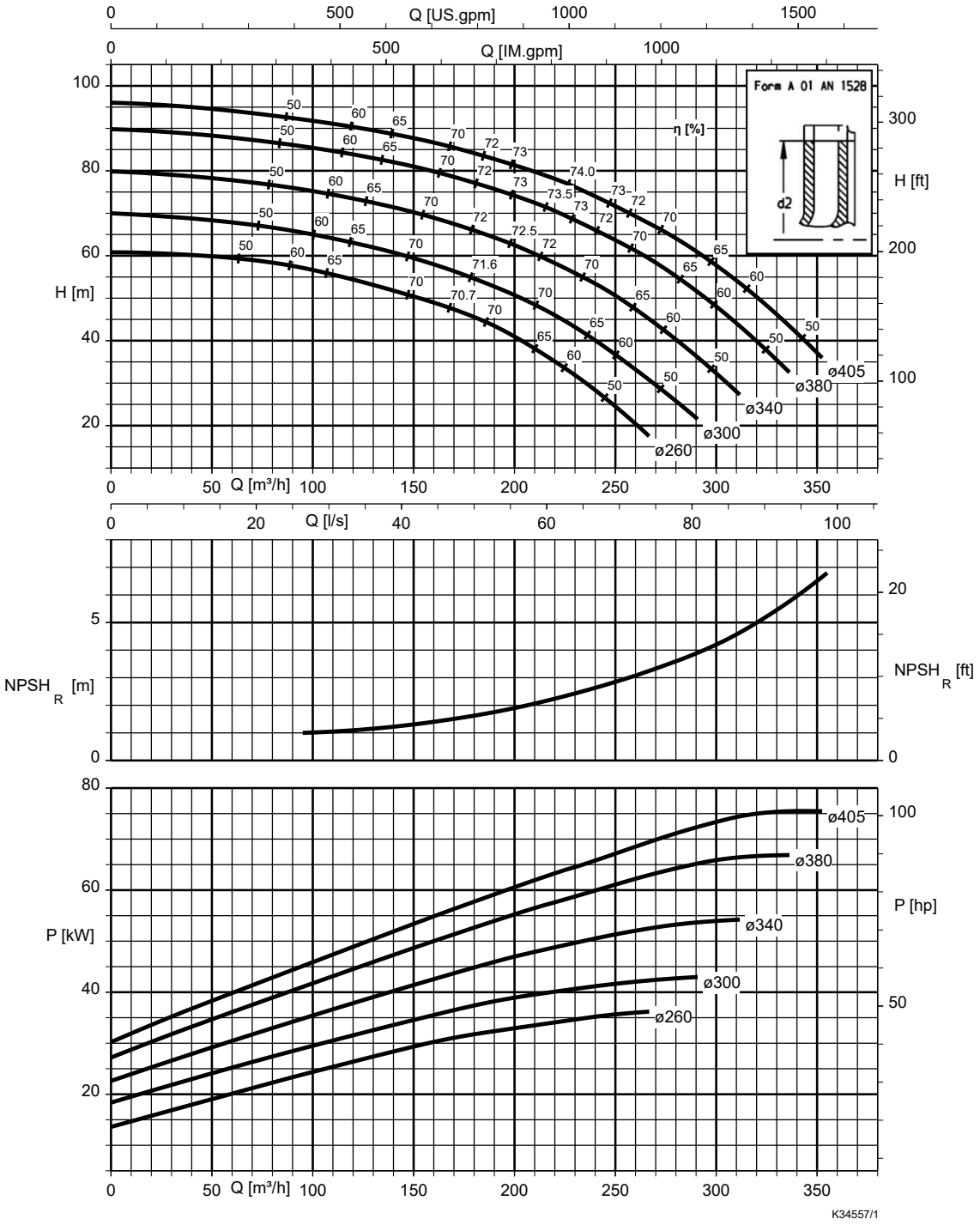


Tableau 3: Valeurs de correction

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	

1311.45/12-FR

Etanorm-RSY 150-500.1, n = 1450 t/min

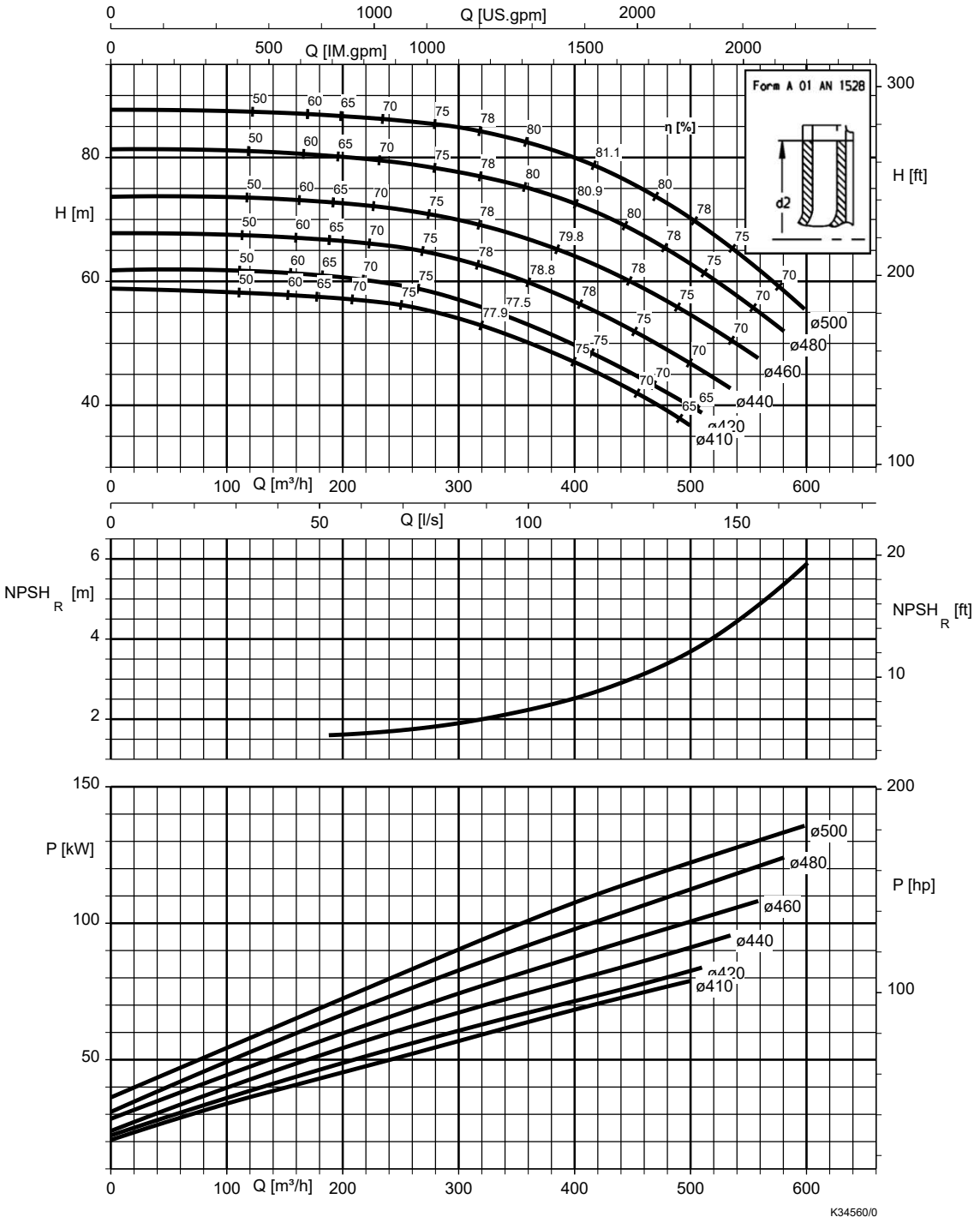


Tableau 4: Valeurs de correction

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	

1311.45/12-FR

Etanorm-RSY 200-330, n = 1450 t/min

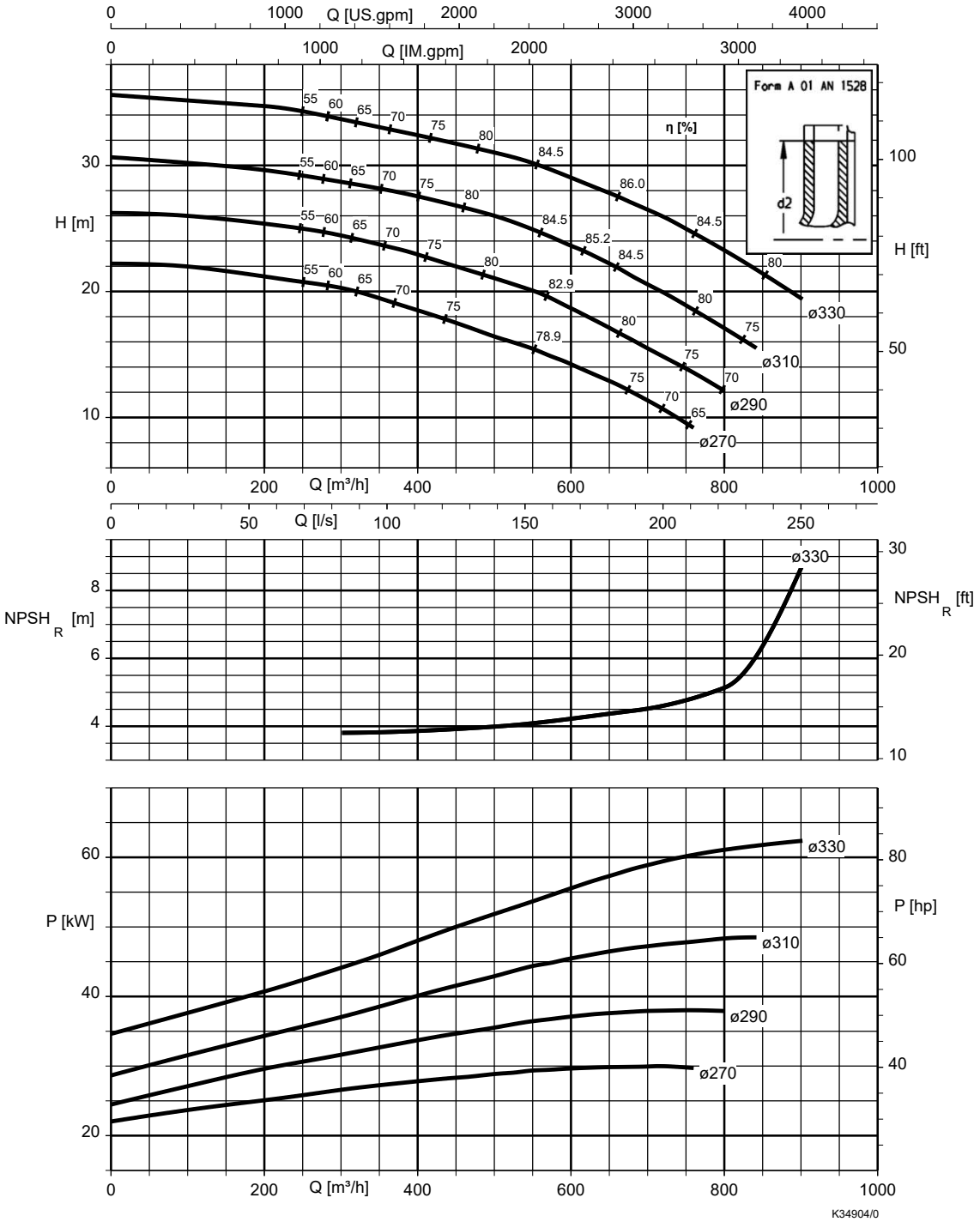


Tableau 5: Valeurs de correction

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	

1311.45/12-FR

Etanorm-RSY 200-400, n = 1450 t/min

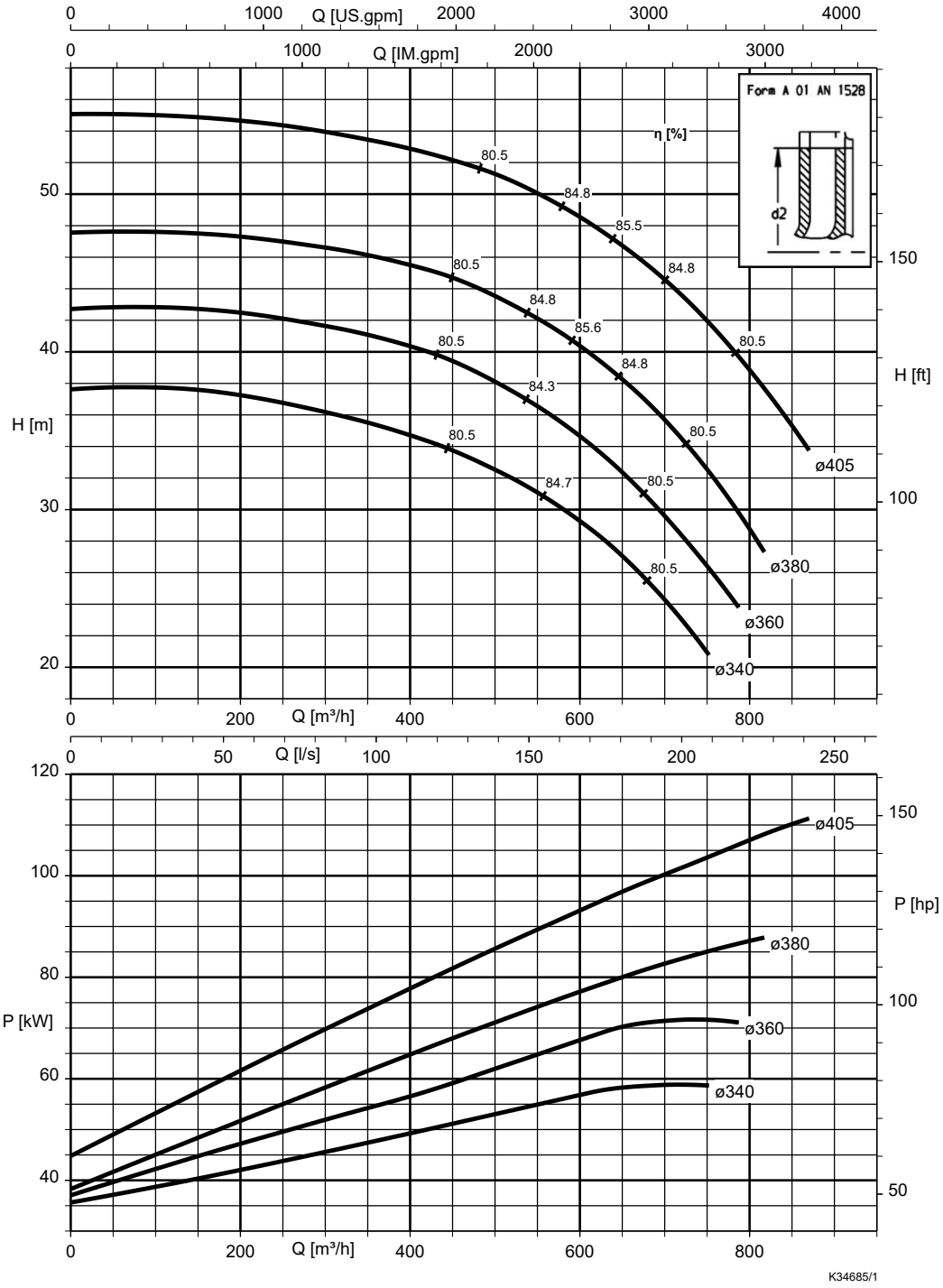


Tableau 6: Valeurs de correction

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

1311.45/12-FR

Etanorm-RSY 200-500, n = 1450 t/min

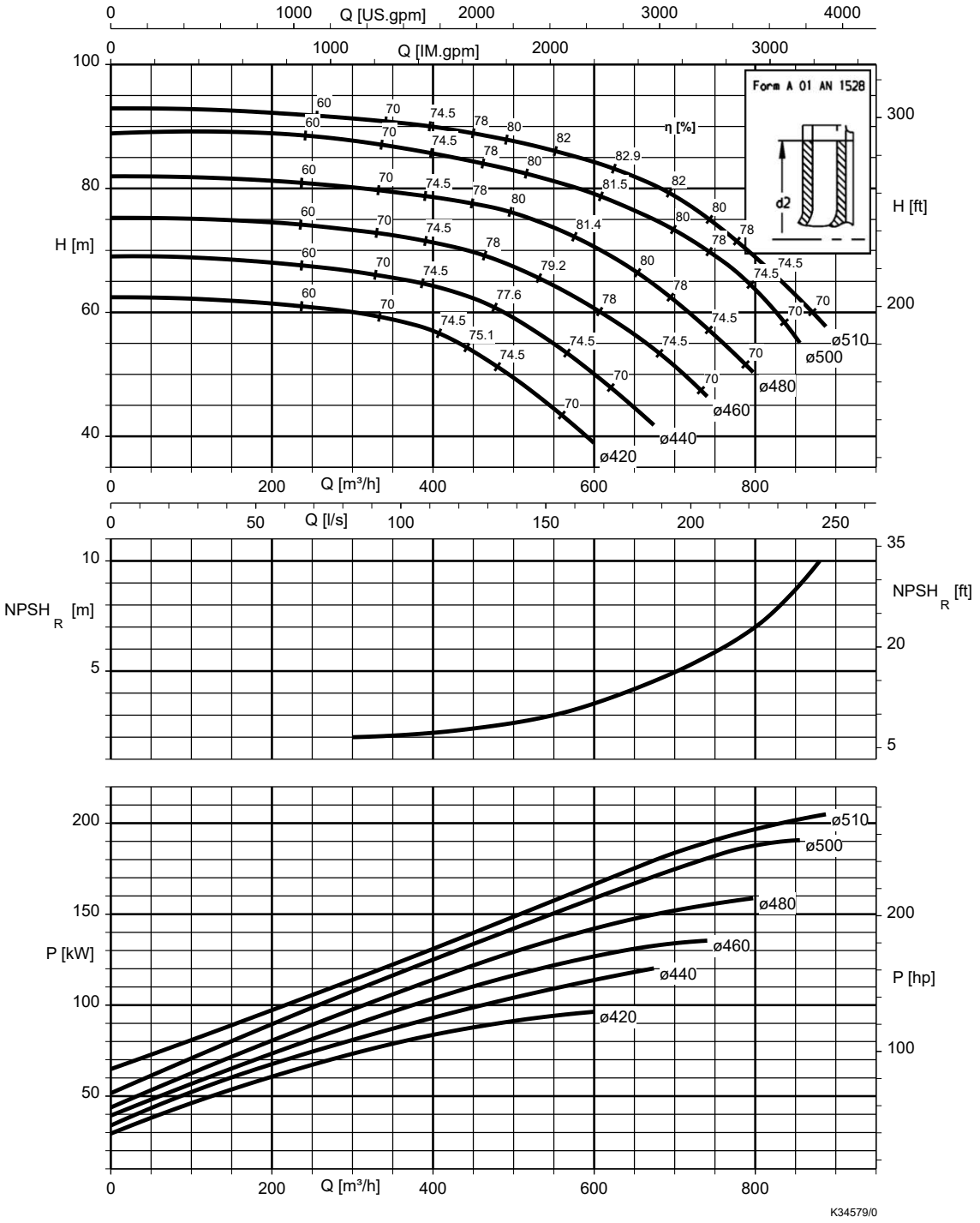


Tableau 7: Valeurs de correction

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	

1311.45/12-FR

Etanorm-RSY 250-300, n = 1450 t/min

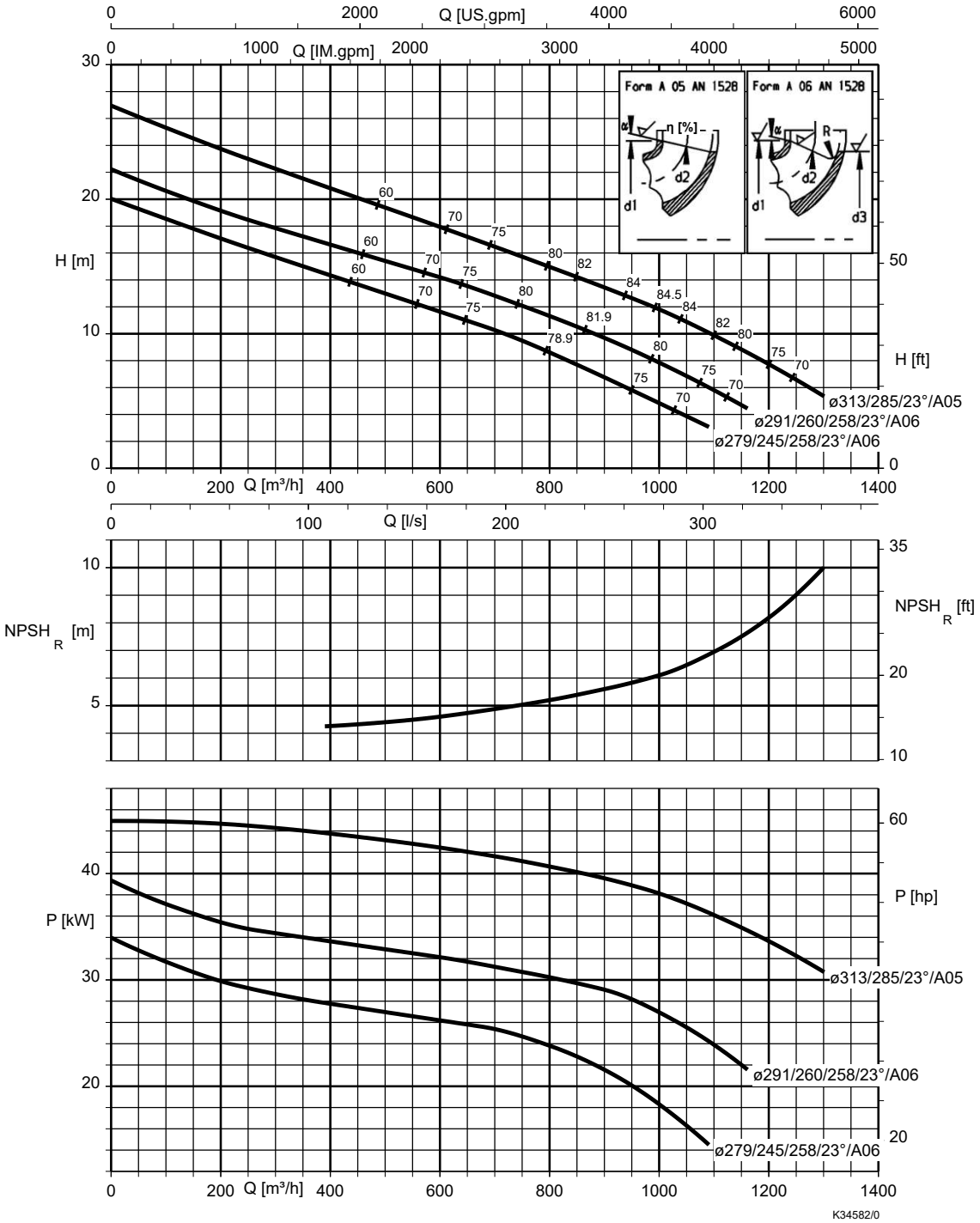


Tableau 8: Valeurs de correction

Matériau de la roue	Valeur de correction S [m]	Calcul
EN-GJL-250	2,7	$NPSH_{disponible}$ ≥ NPSH + valeur de correction **S**
CC480K-GS	1,5	
1.4408	0,5	

1311.45/12-FR

Etanorm-RSY 250-330, n = 1450 t/min

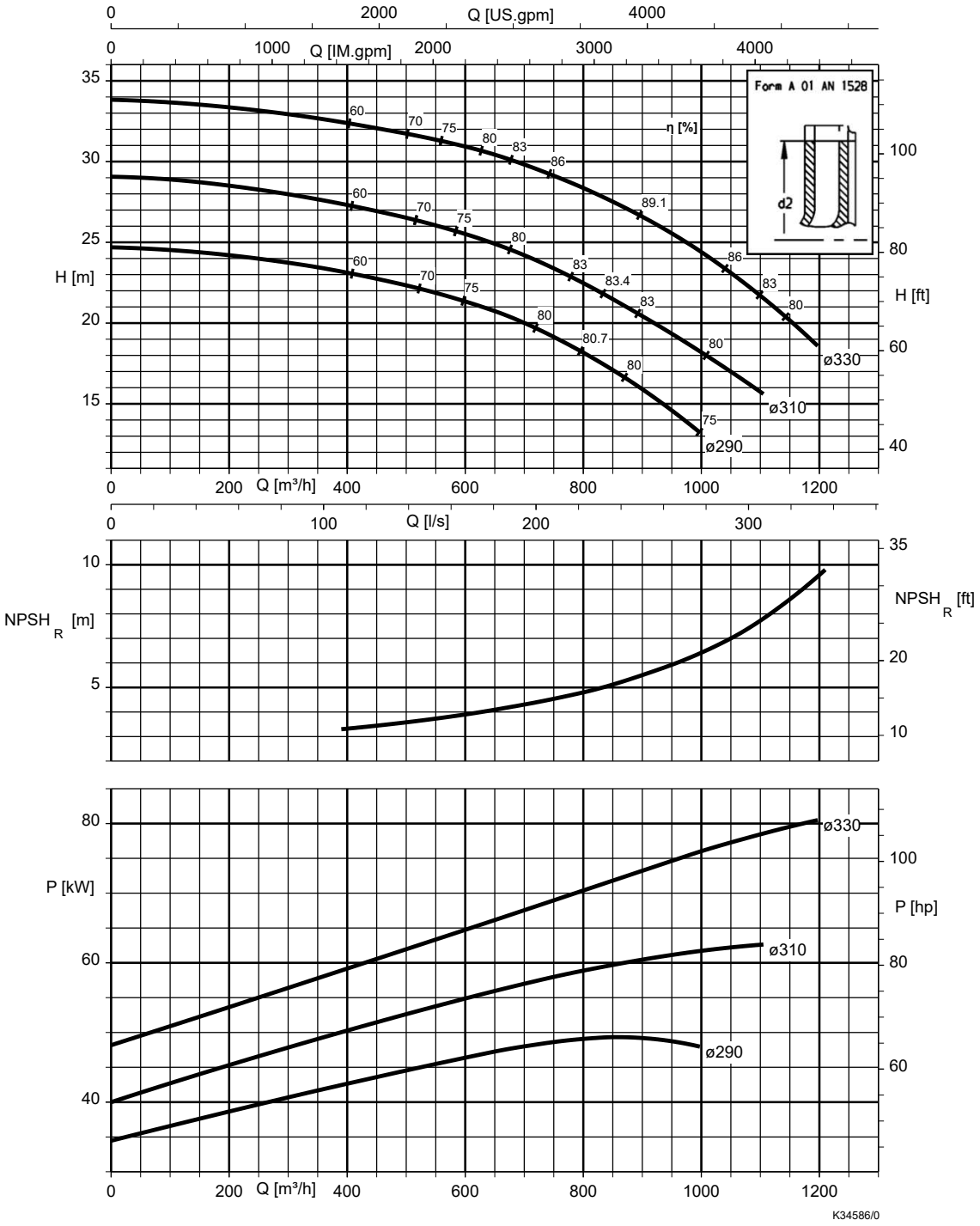


Tableau 9: Valeurs de correction

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

1311.45/12-FR

Etanorm-RSY 250-400, n = 1450 t/min

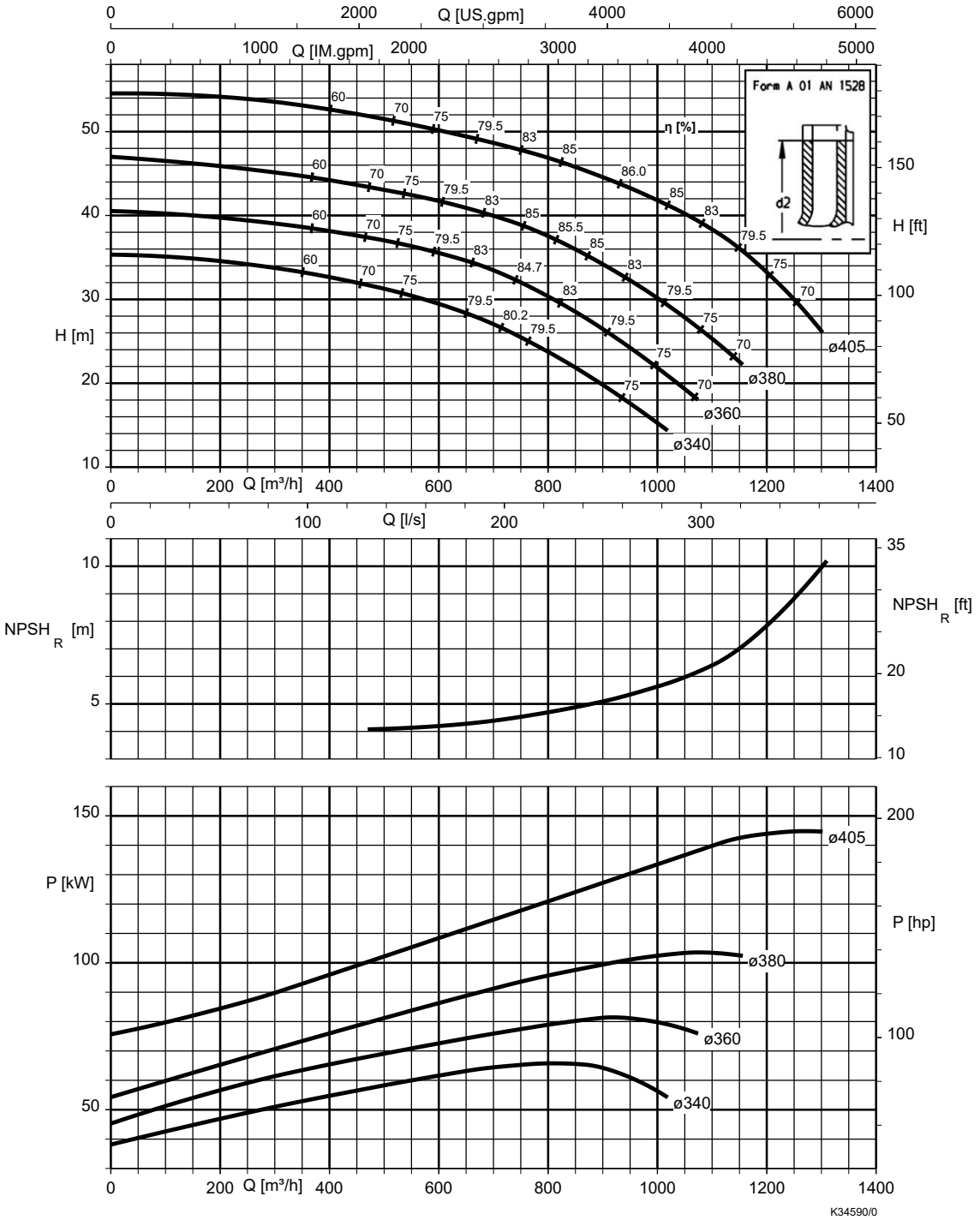


Tableau 10: Valeurs de correction

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

1311.45/12-FR

Etanorm-RSY 250-500, n = 1450 t/min

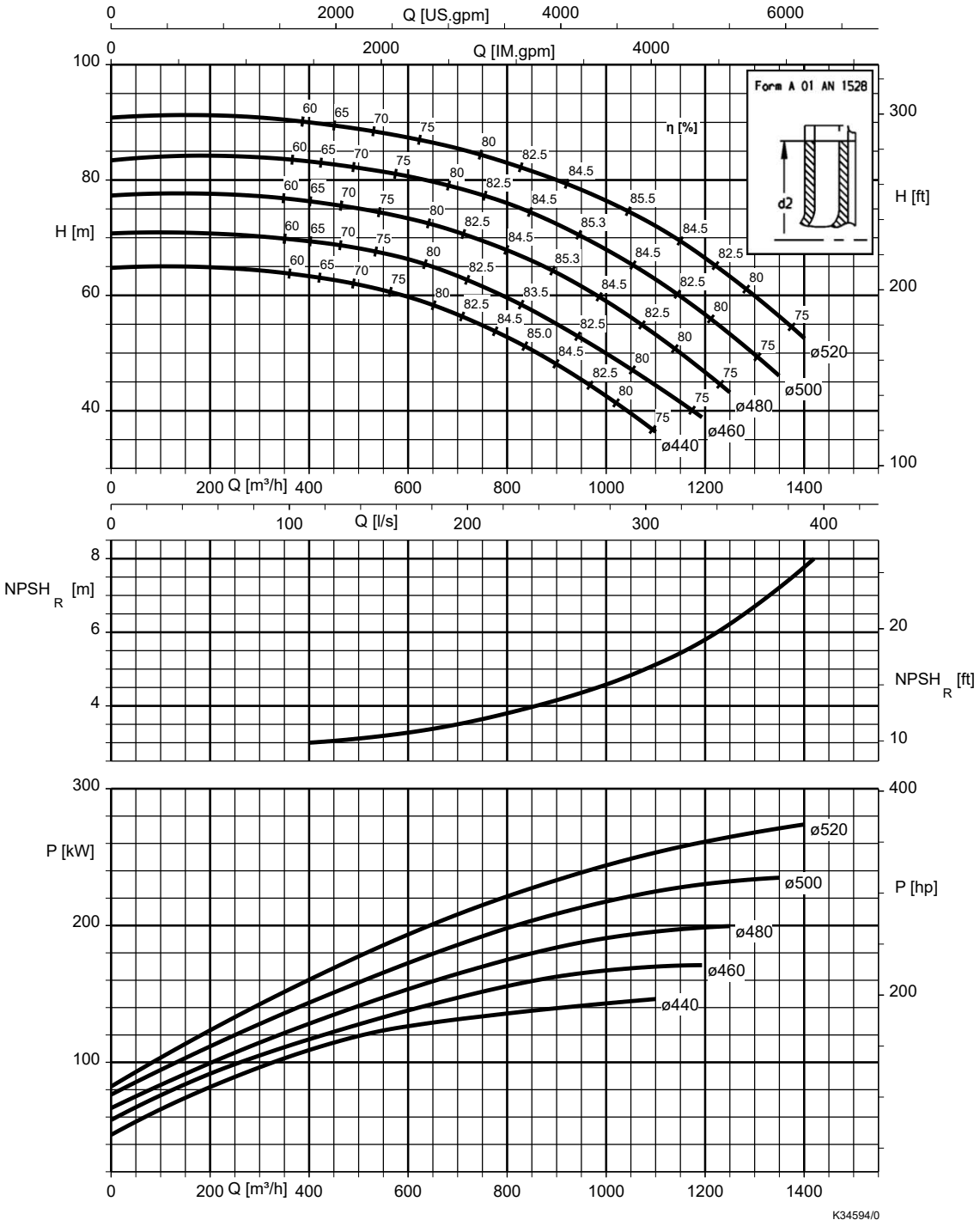


Tableau 11: Valeurs de correction

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

1311.45/12-FR

Etanorm-RSY 300-360, n = 1450 t/min

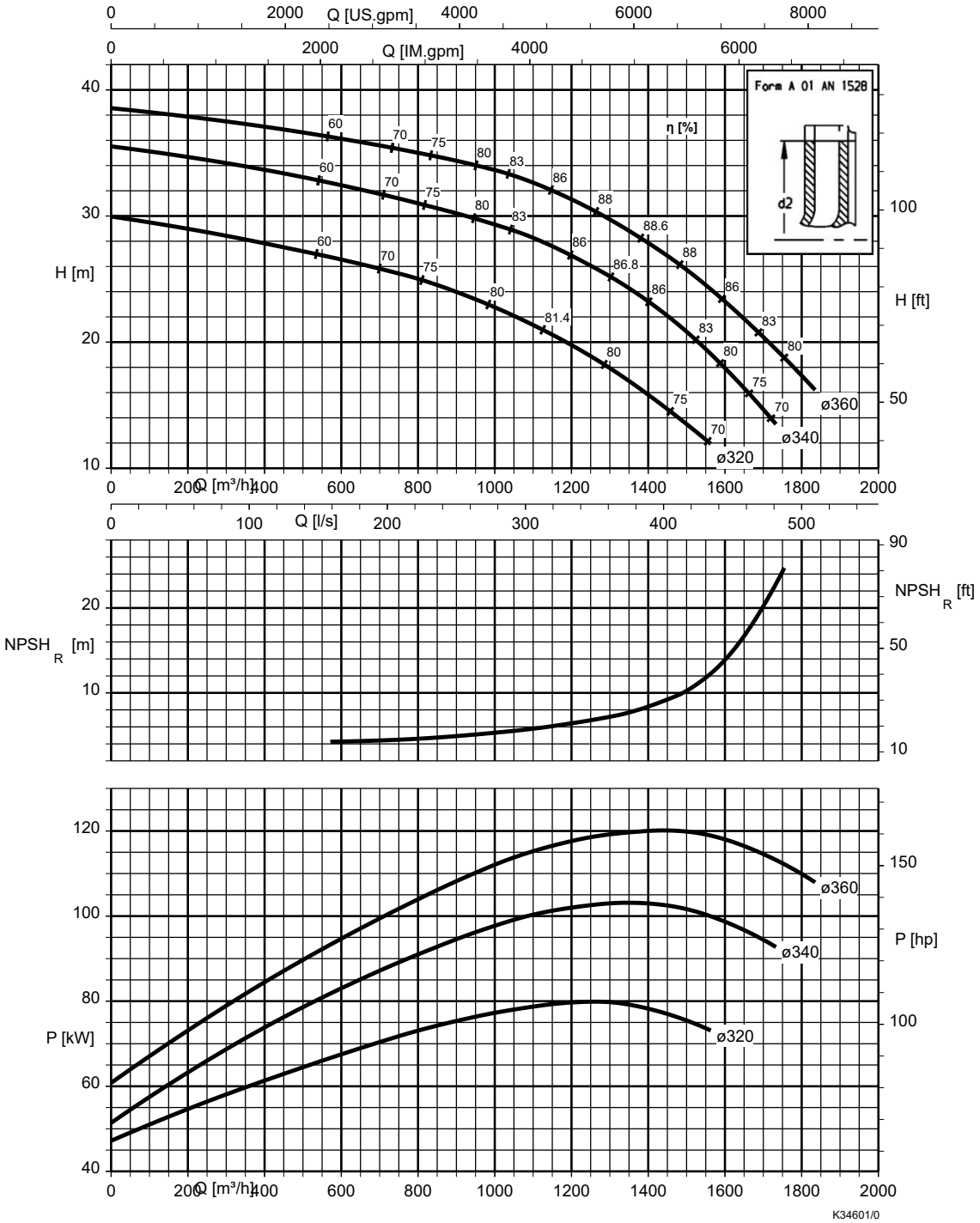


Tableau 12: Valeurs de correction

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

1311.45/12-FR

Etanorm-RSY 300-400, n = 1450 t/min

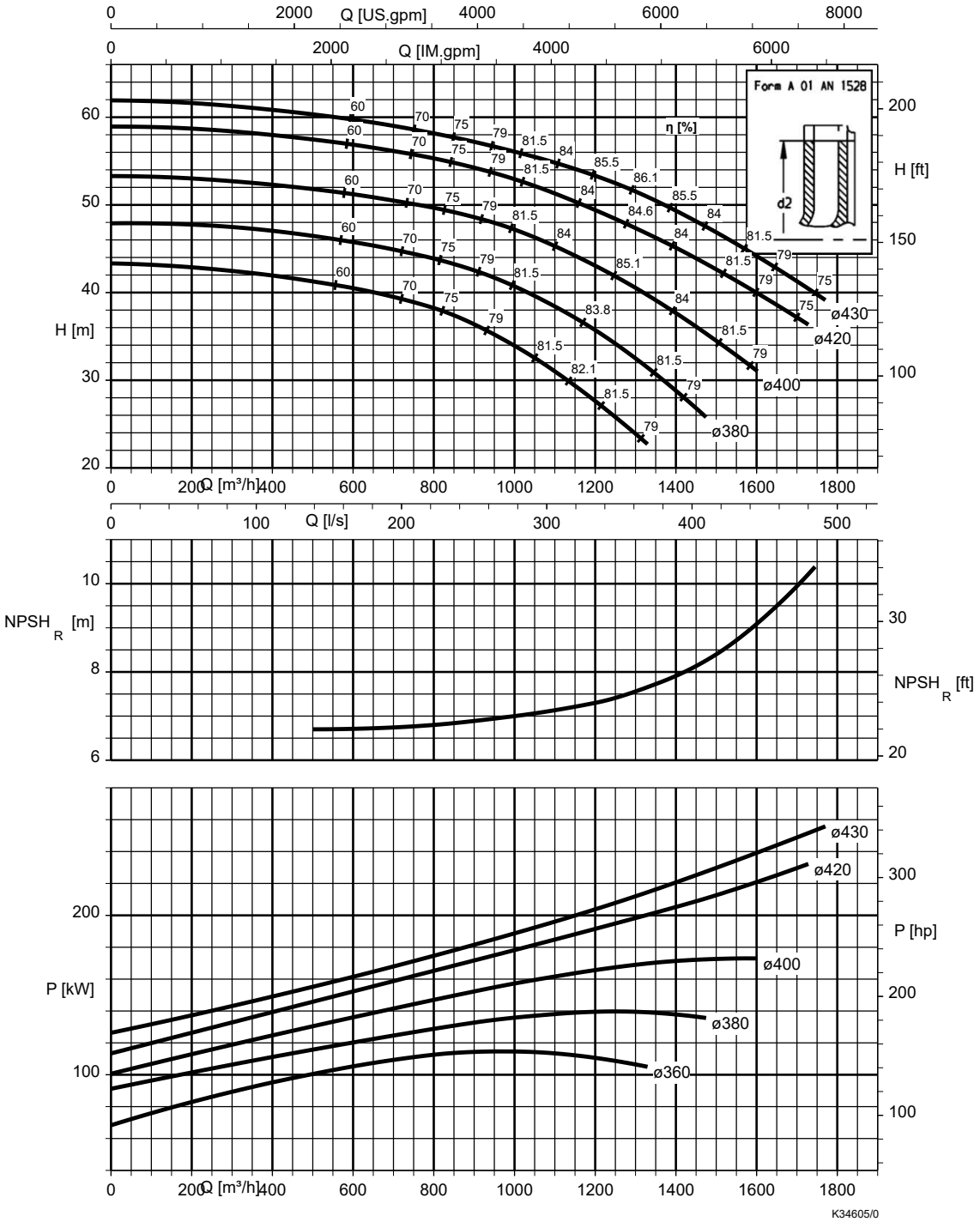


Tableau 13: Valeurs de correction

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

1311.45/12-FR

Etanorm-RSY 300-500, n = 1450 t/min

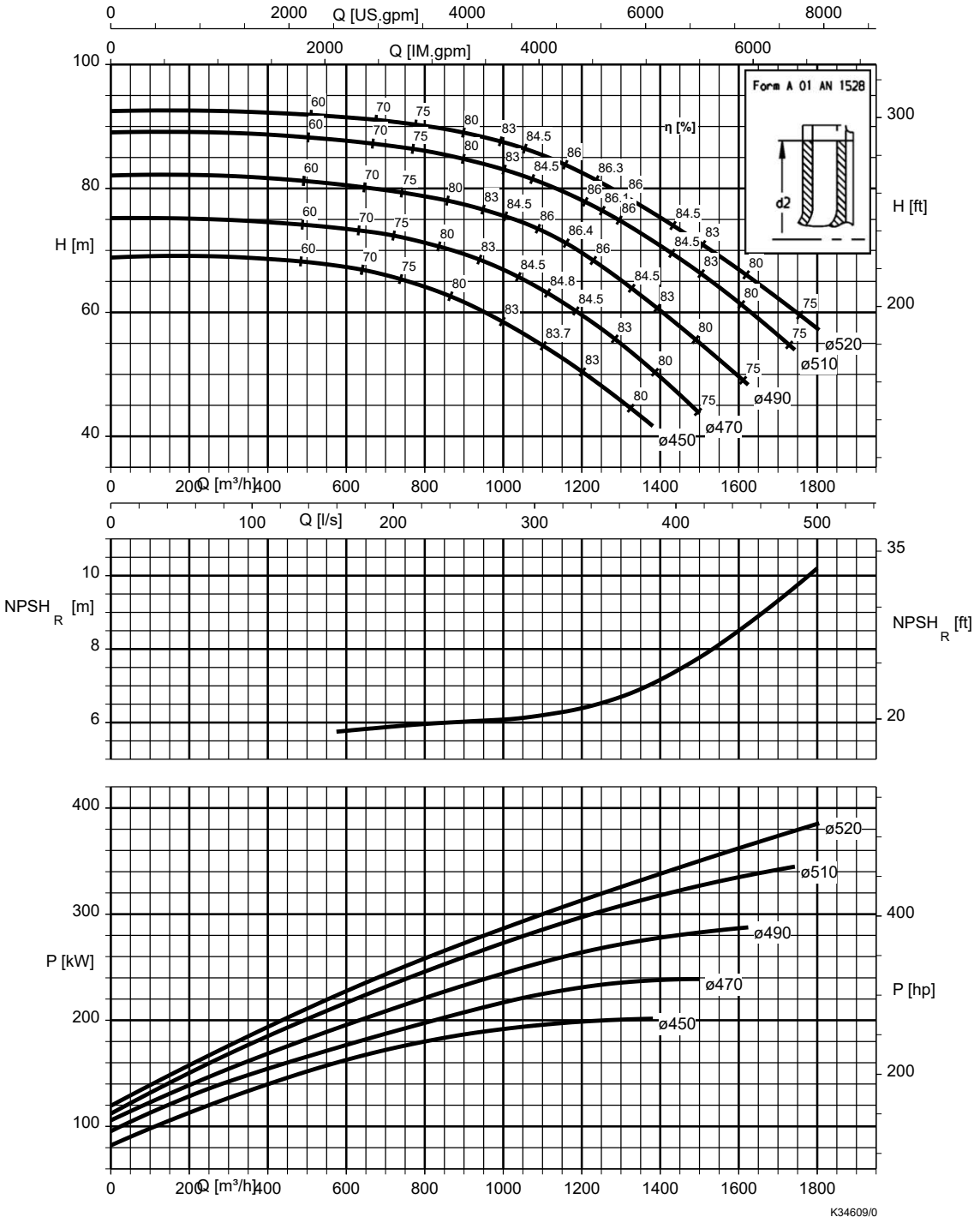


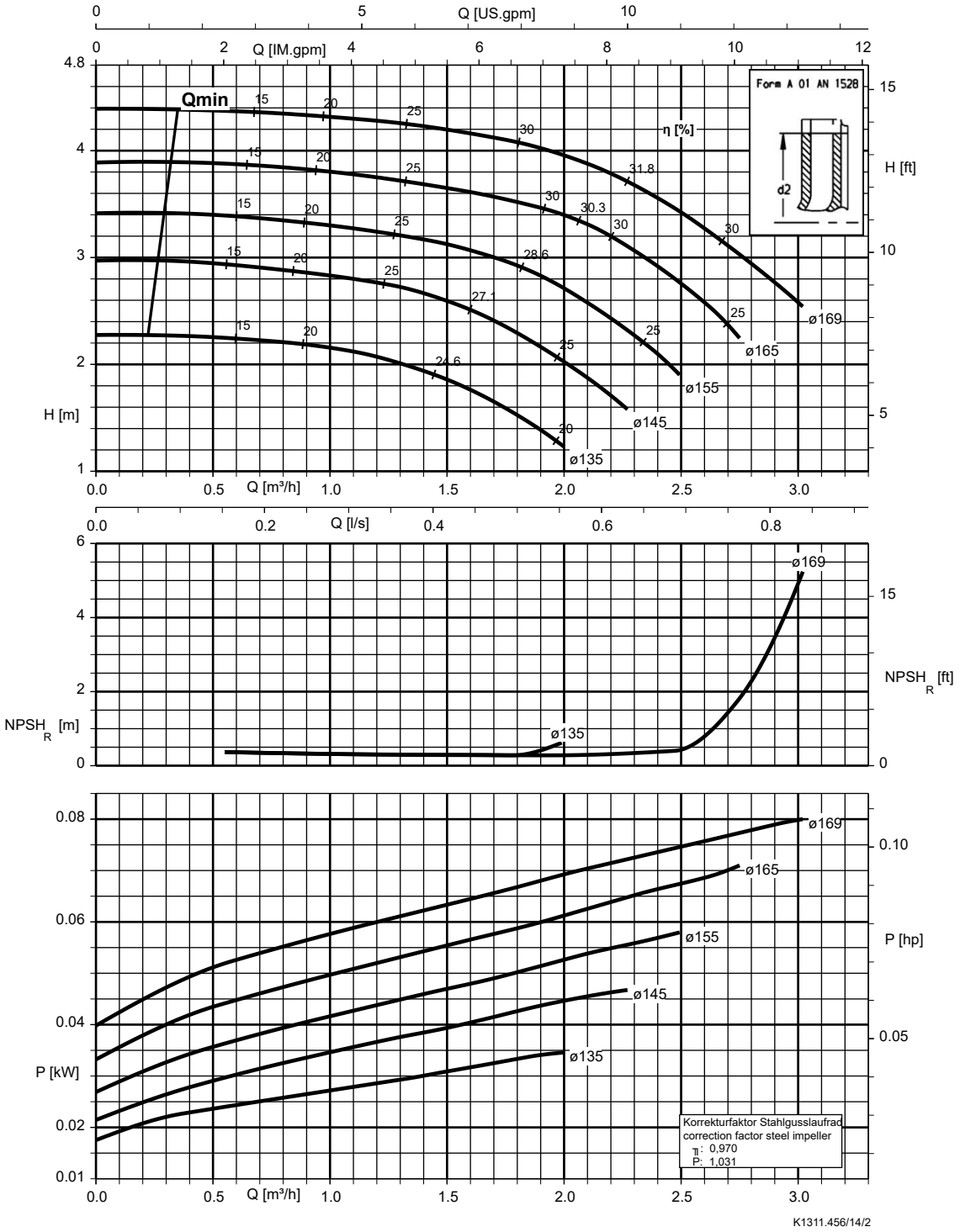
Tableau 14: Valeurs de correction

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

n = 960 t/min

Etanorm 040-025-160, n = 960 t/min

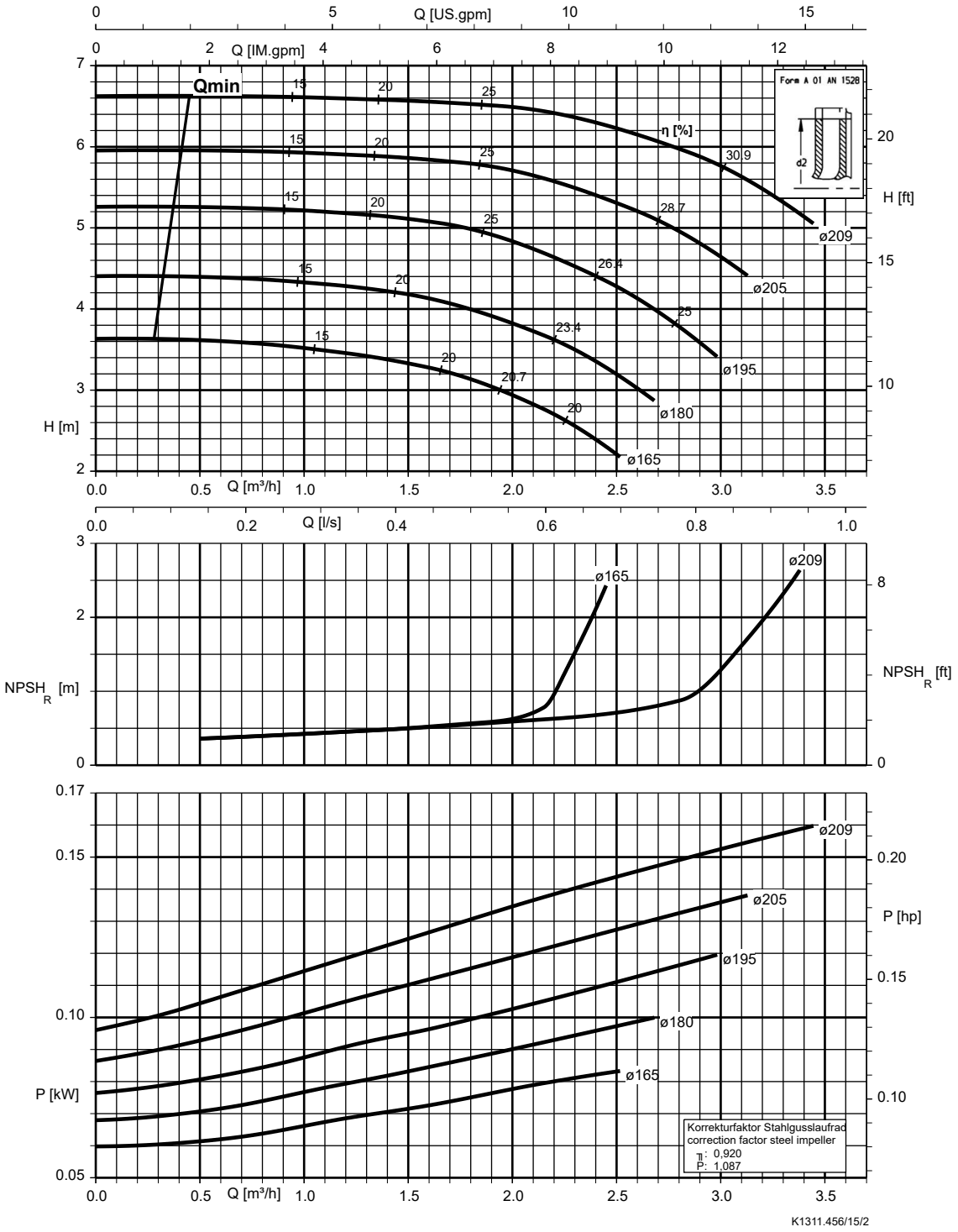
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 040-025-200, n = 960 t/min

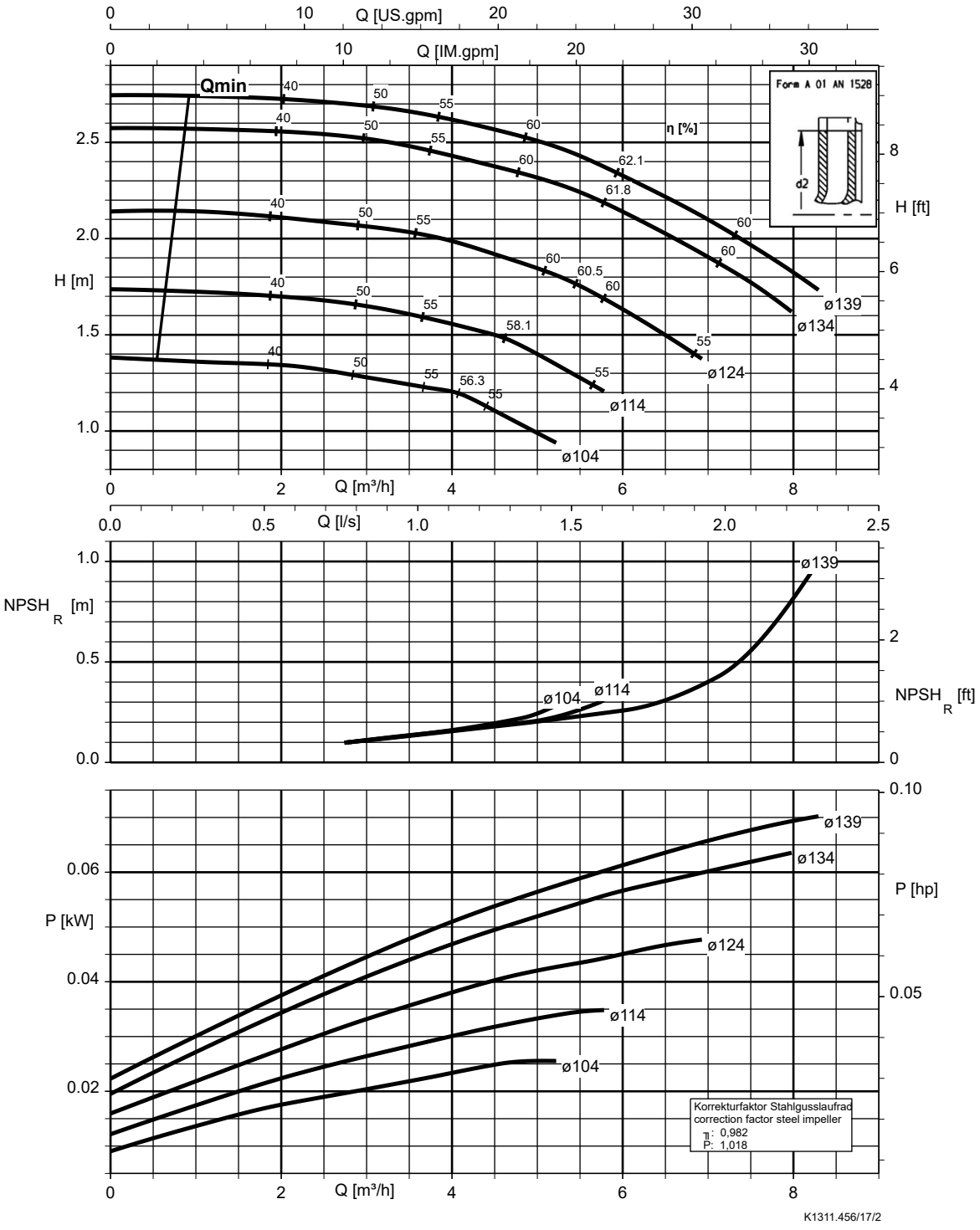
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 050-032-125.1, n = 960 t/min

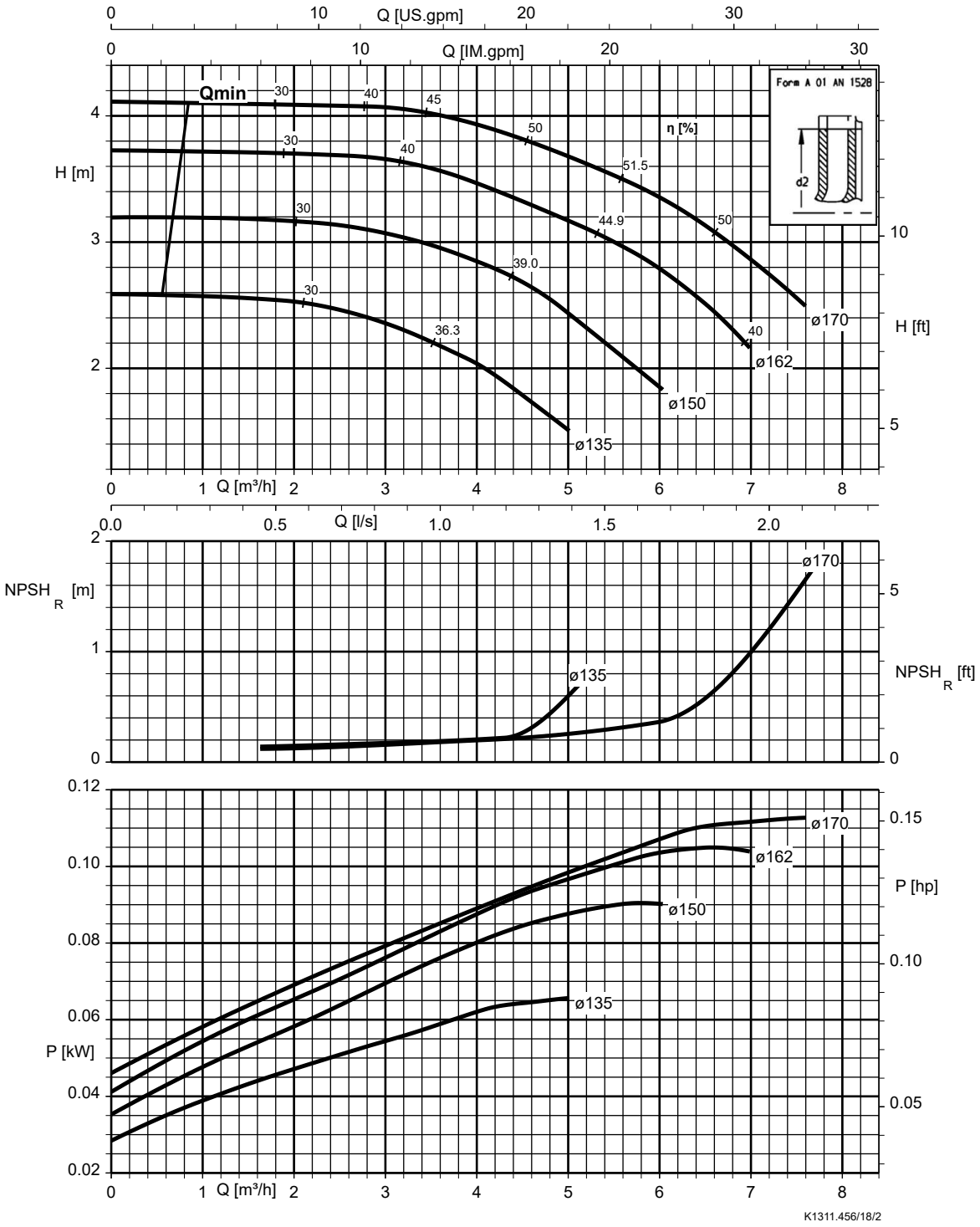
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 050-032-160.1, n = 960 t/min

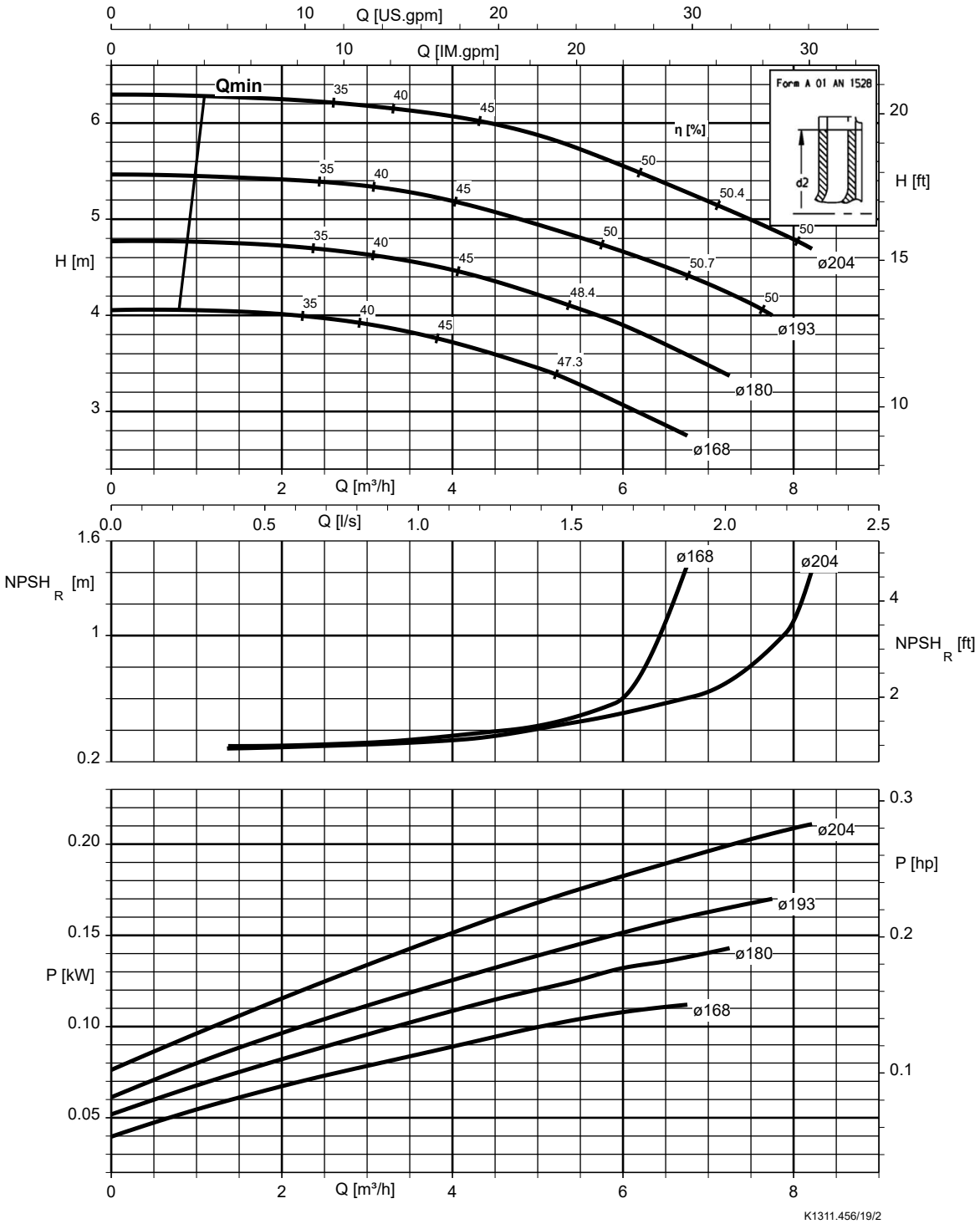
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 050-032-200.1, n = 960 t/min

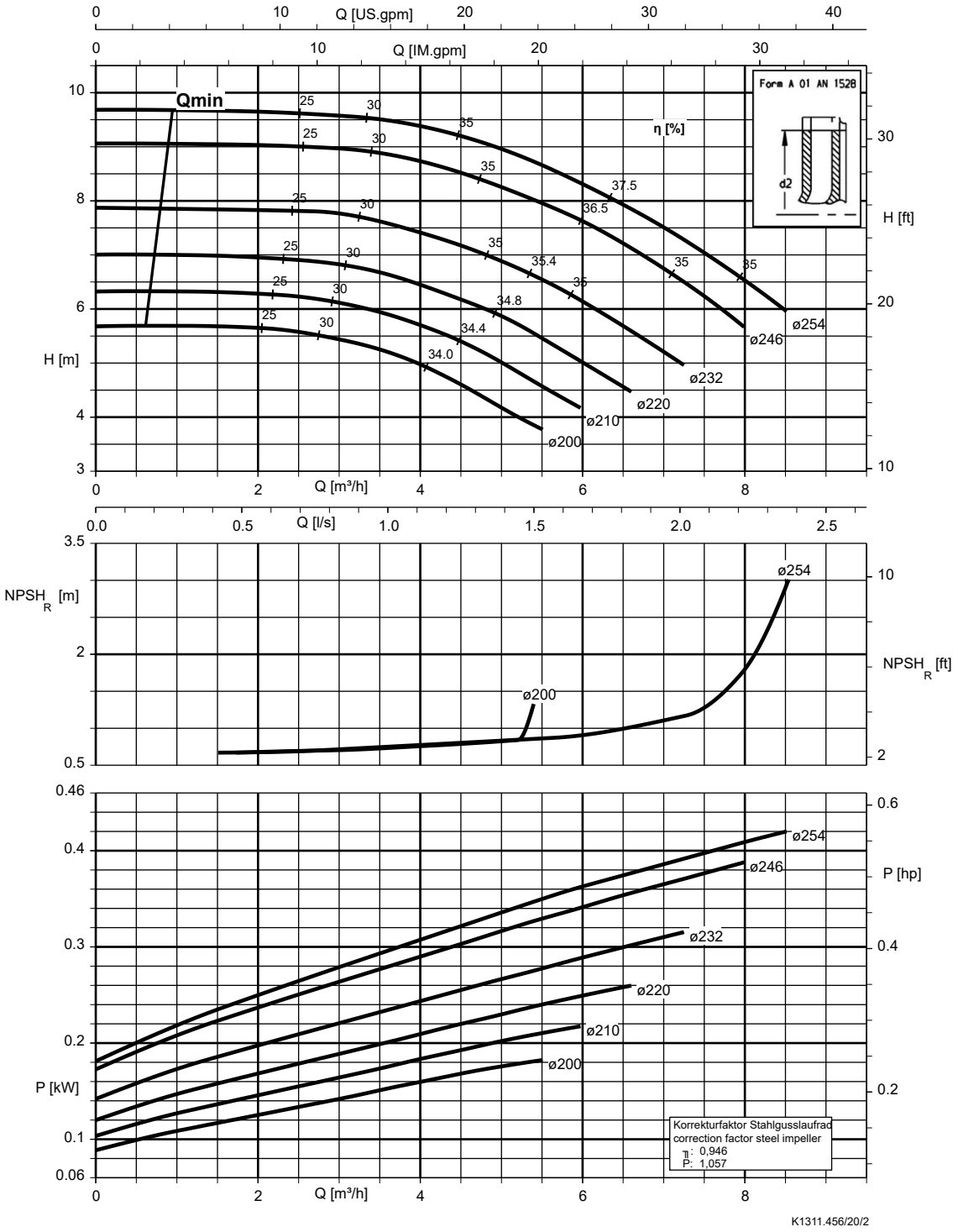
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 050-032-250.1, n = 960 t/min

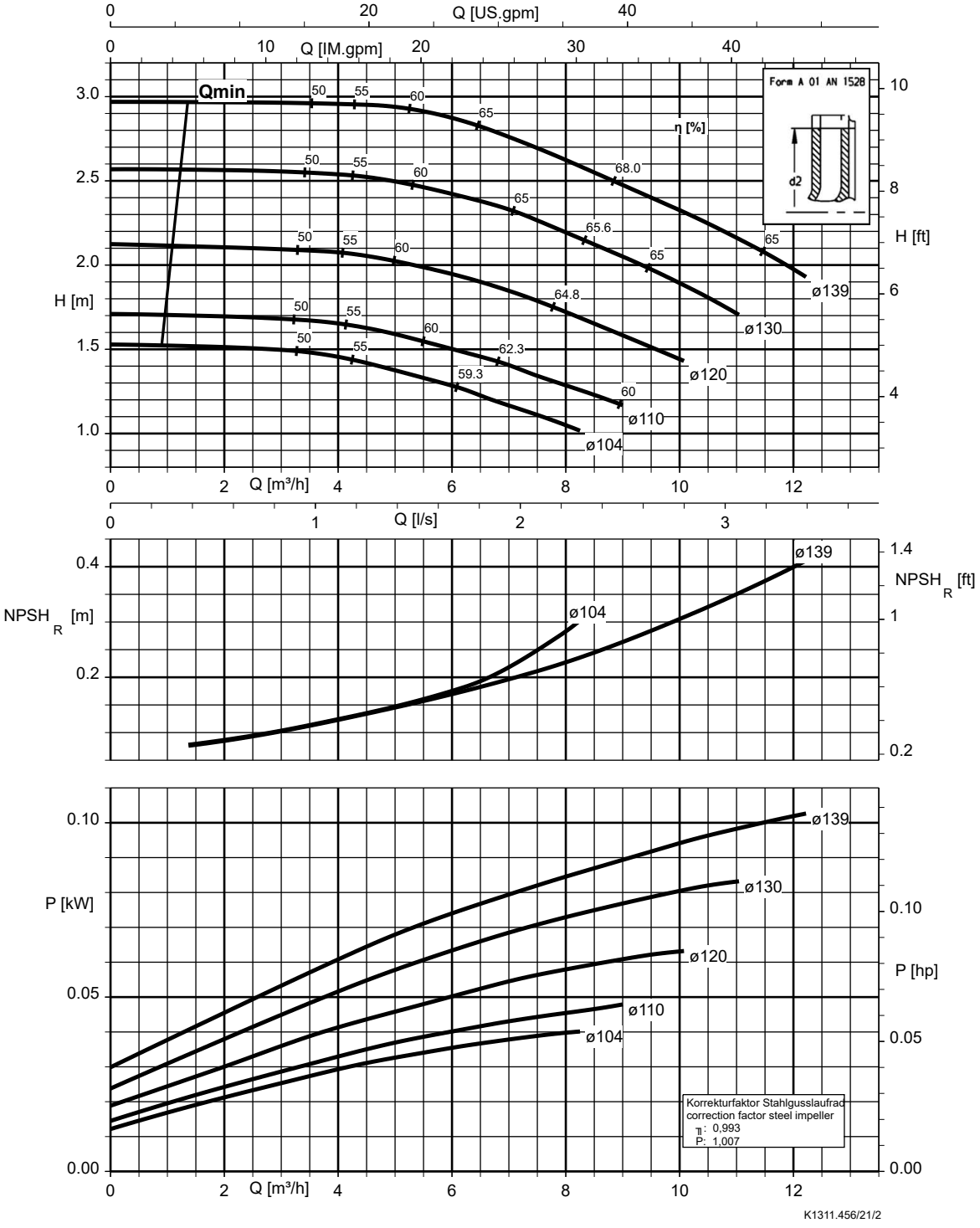
Etabloc



1311.45/12-FR

Etanorm 050-032-125, n = 960 t/min

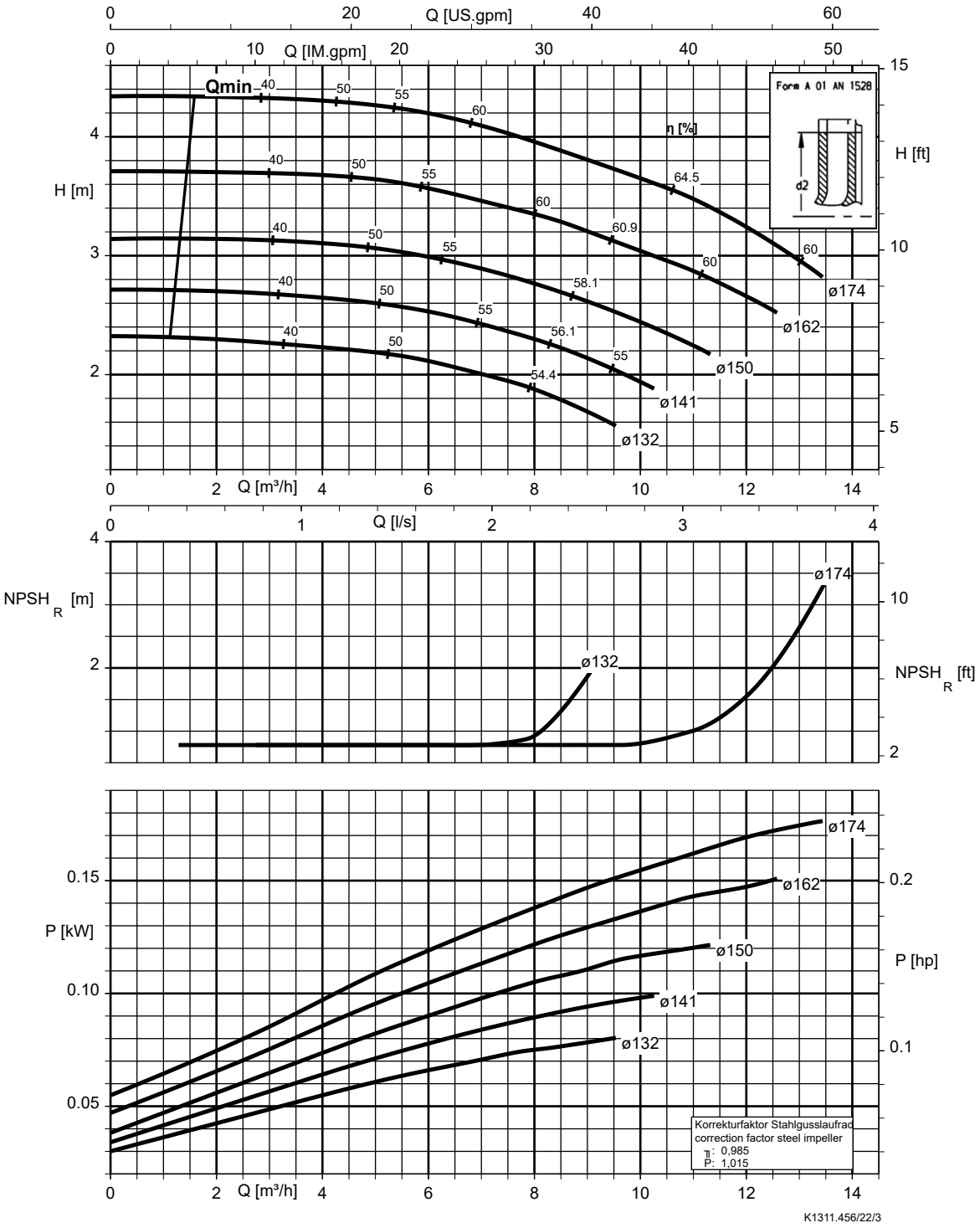
Etabloc



1311.45/12-FR

Etanorm 050-032-160, n = 960 t/min

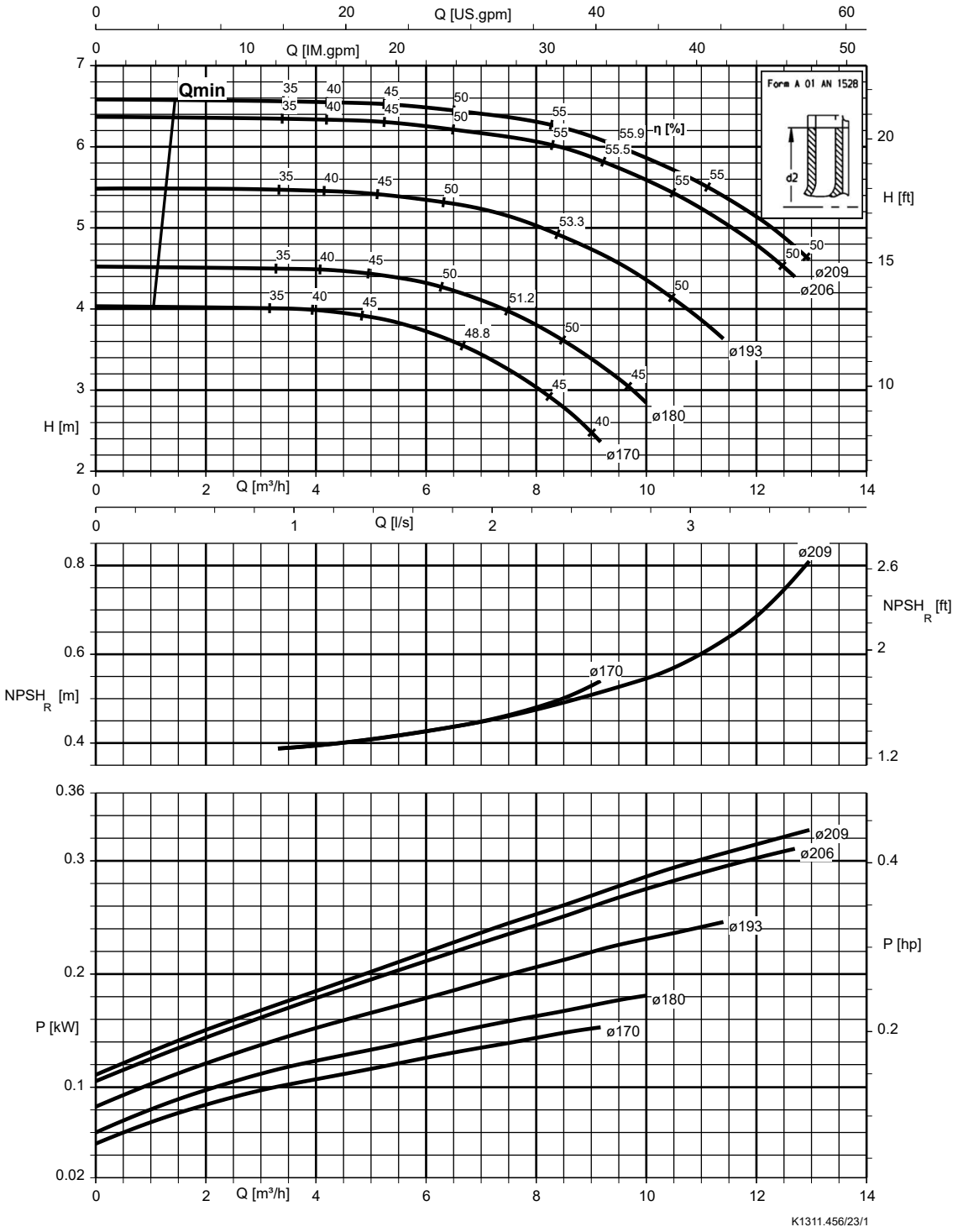
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 050-032-200, n = 960 t/min

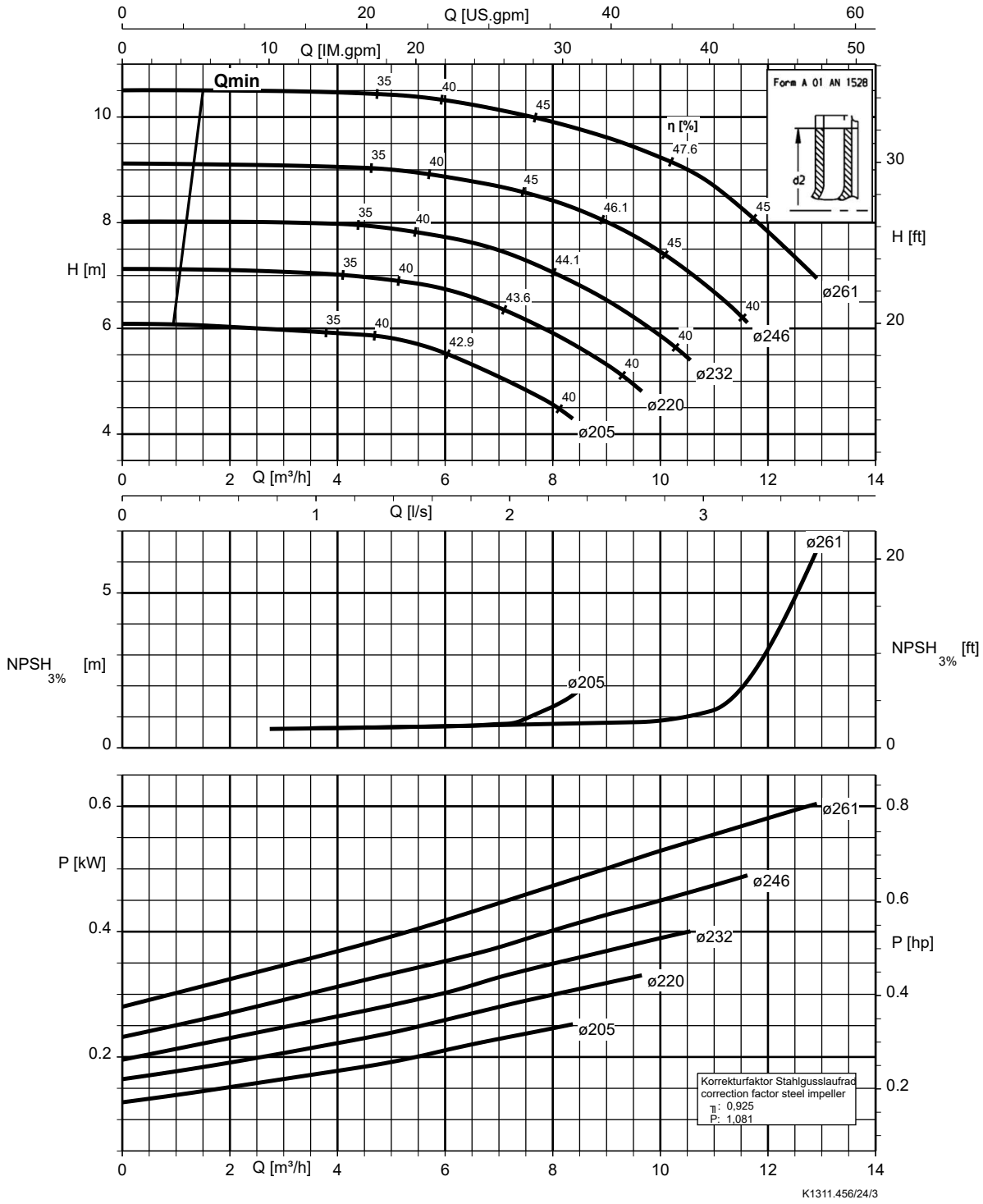
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 050-032-250, n = 960 t/min

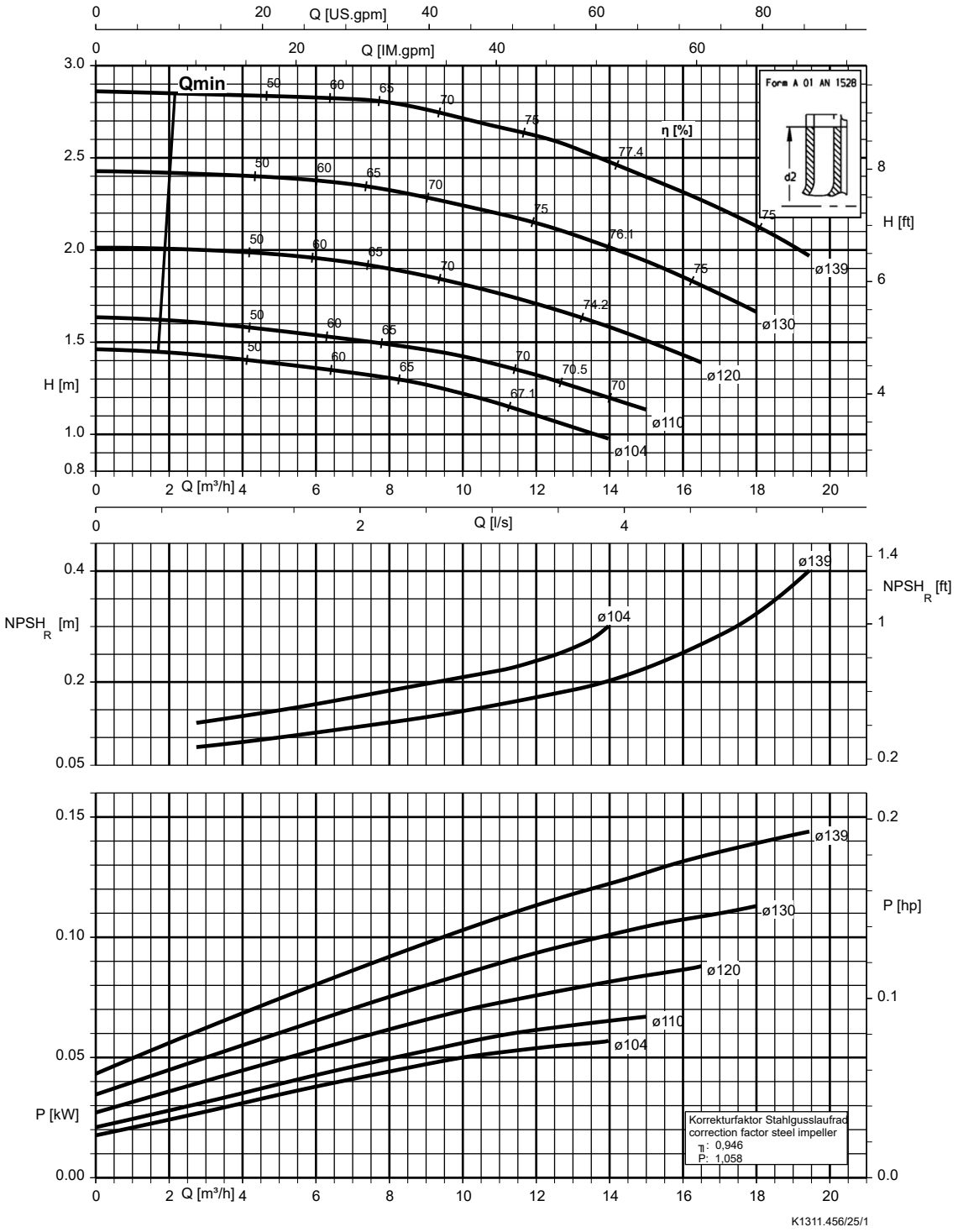
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 065-040-125, n = 960 t/min

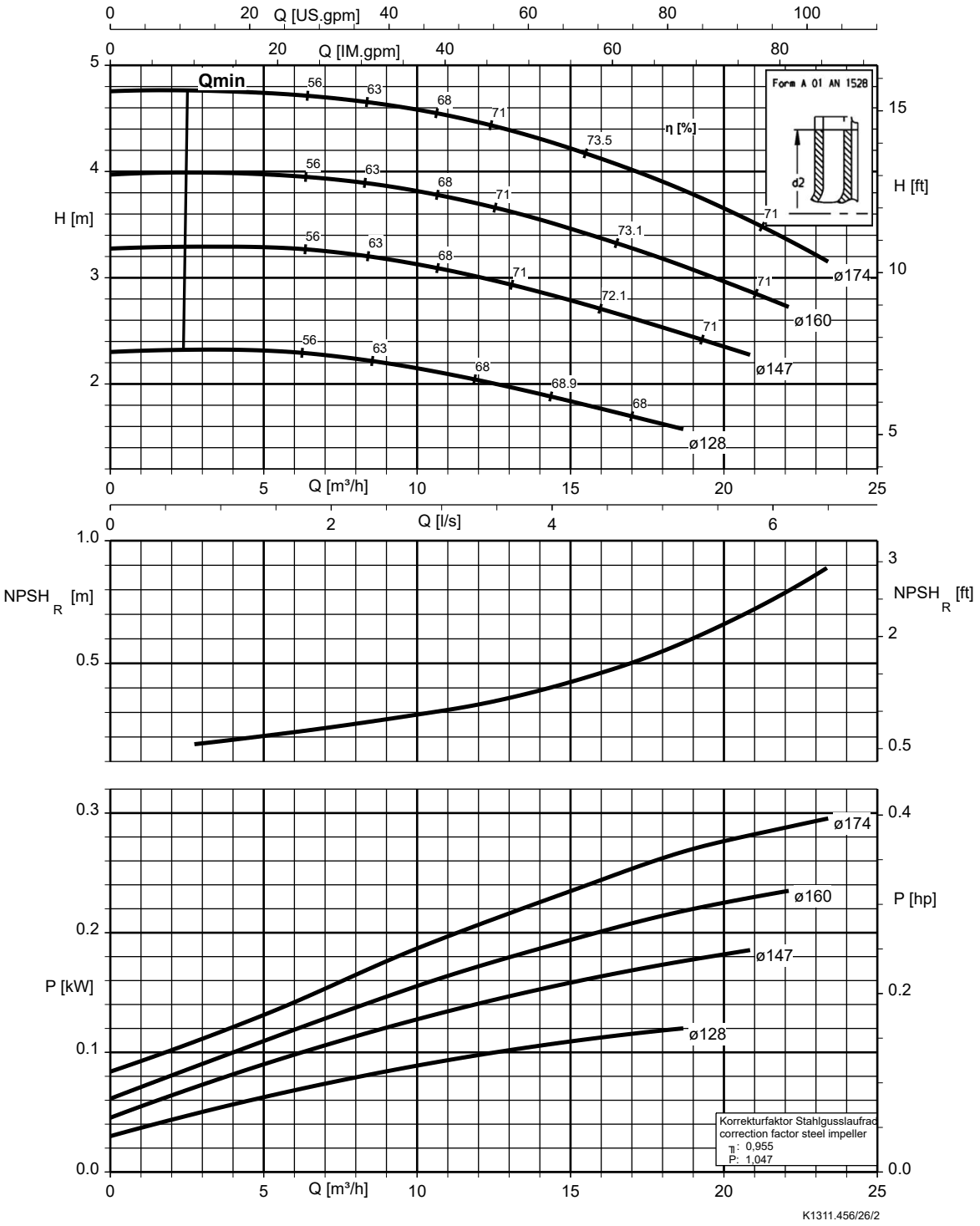
Etabloc



1311.45/12-FR

Etanorm 065-040-160, n = 960 t/min

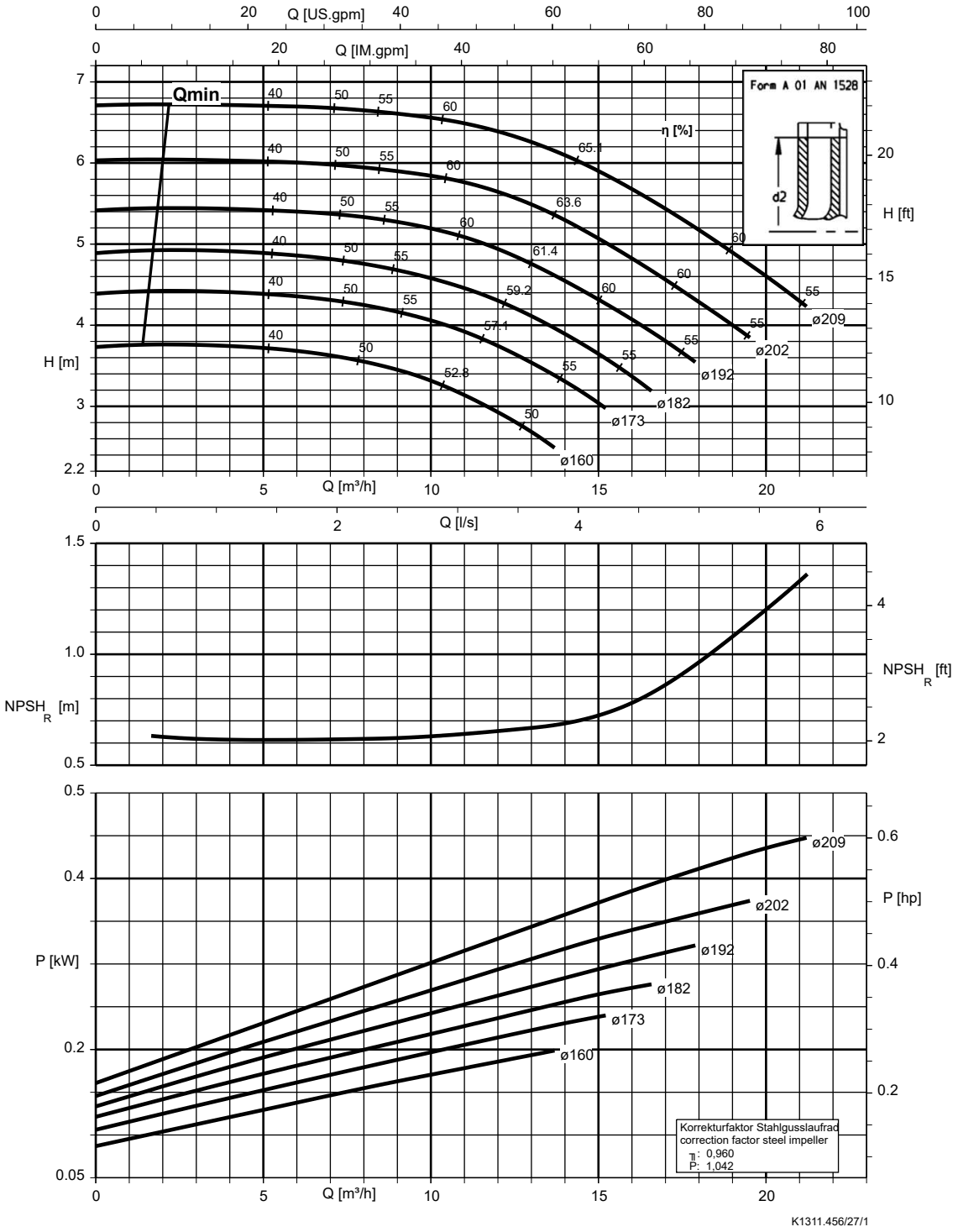
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 065-040-200, n = 960 t/min

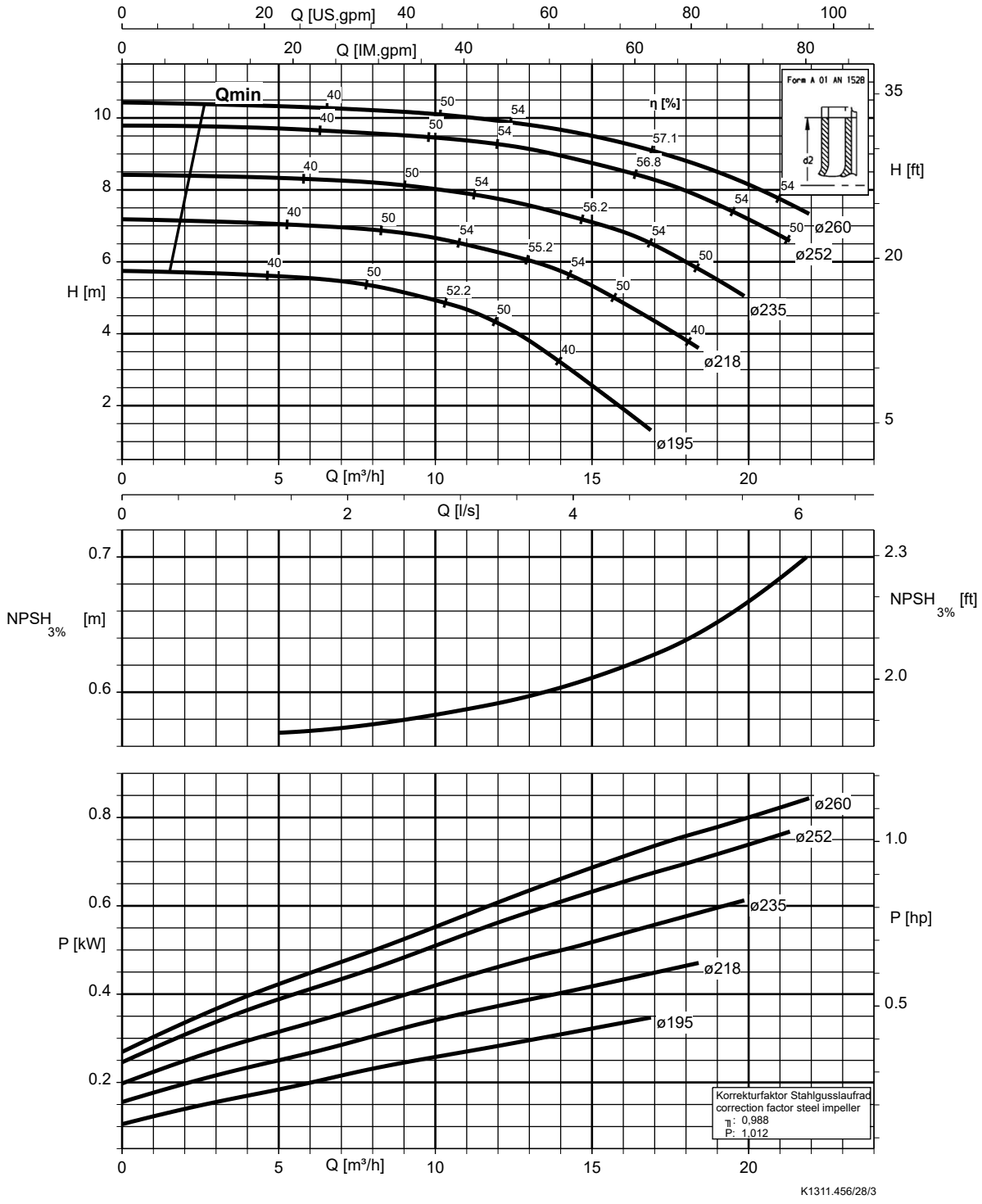
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 065-040-250, n = 960 t/min

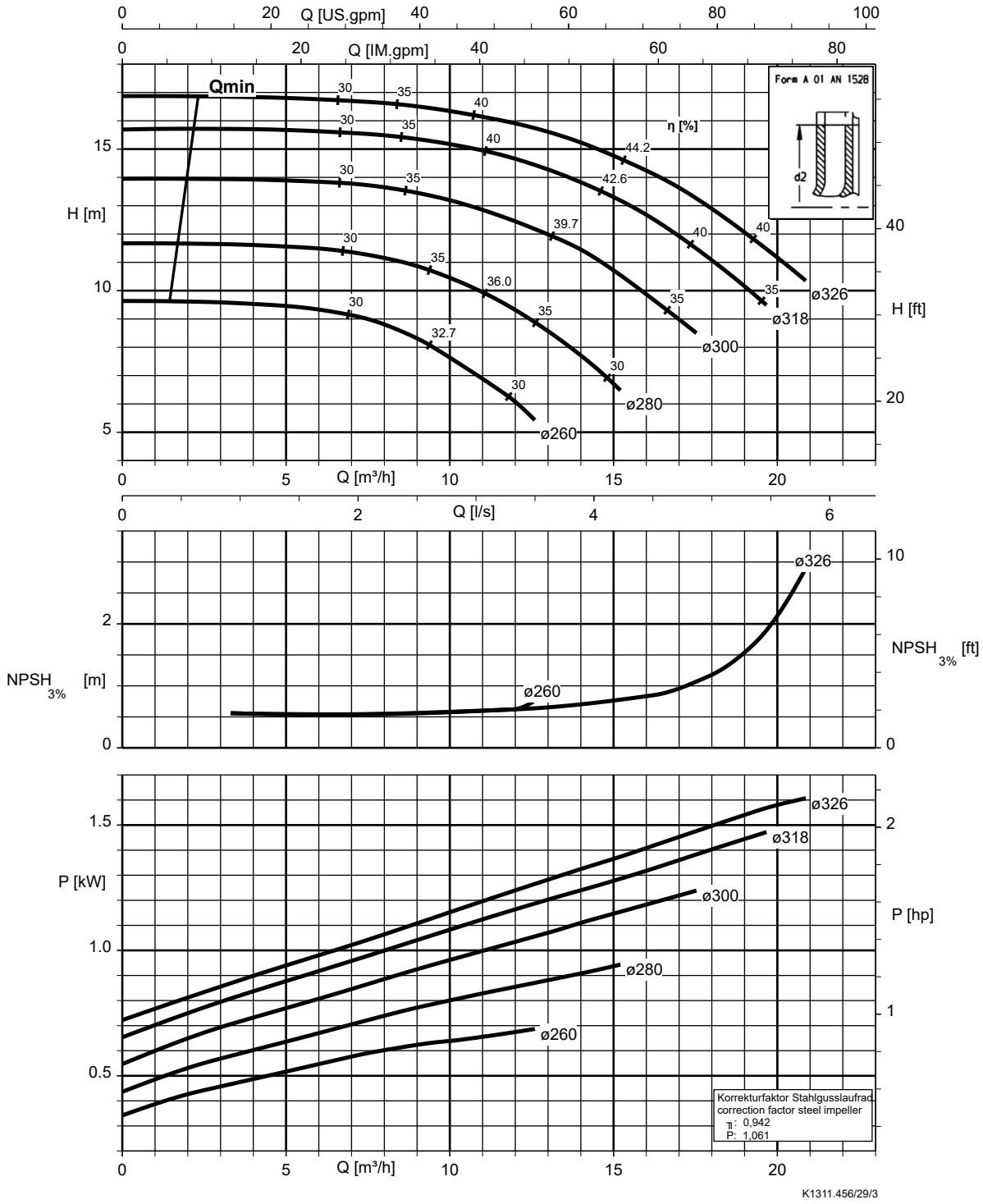
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 065-040-315, n = 960 t/min

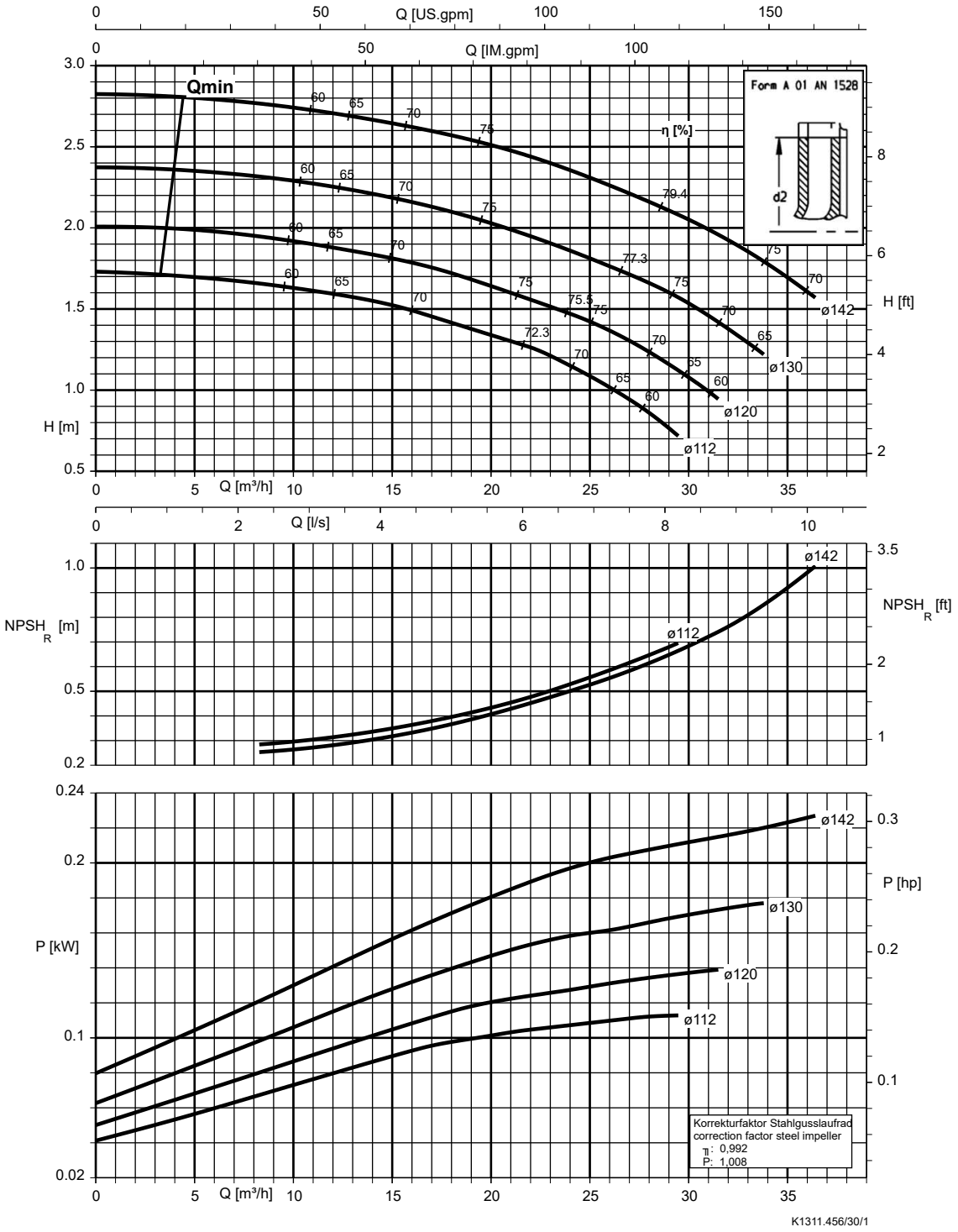
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 065-050-125, n = 960 t/min

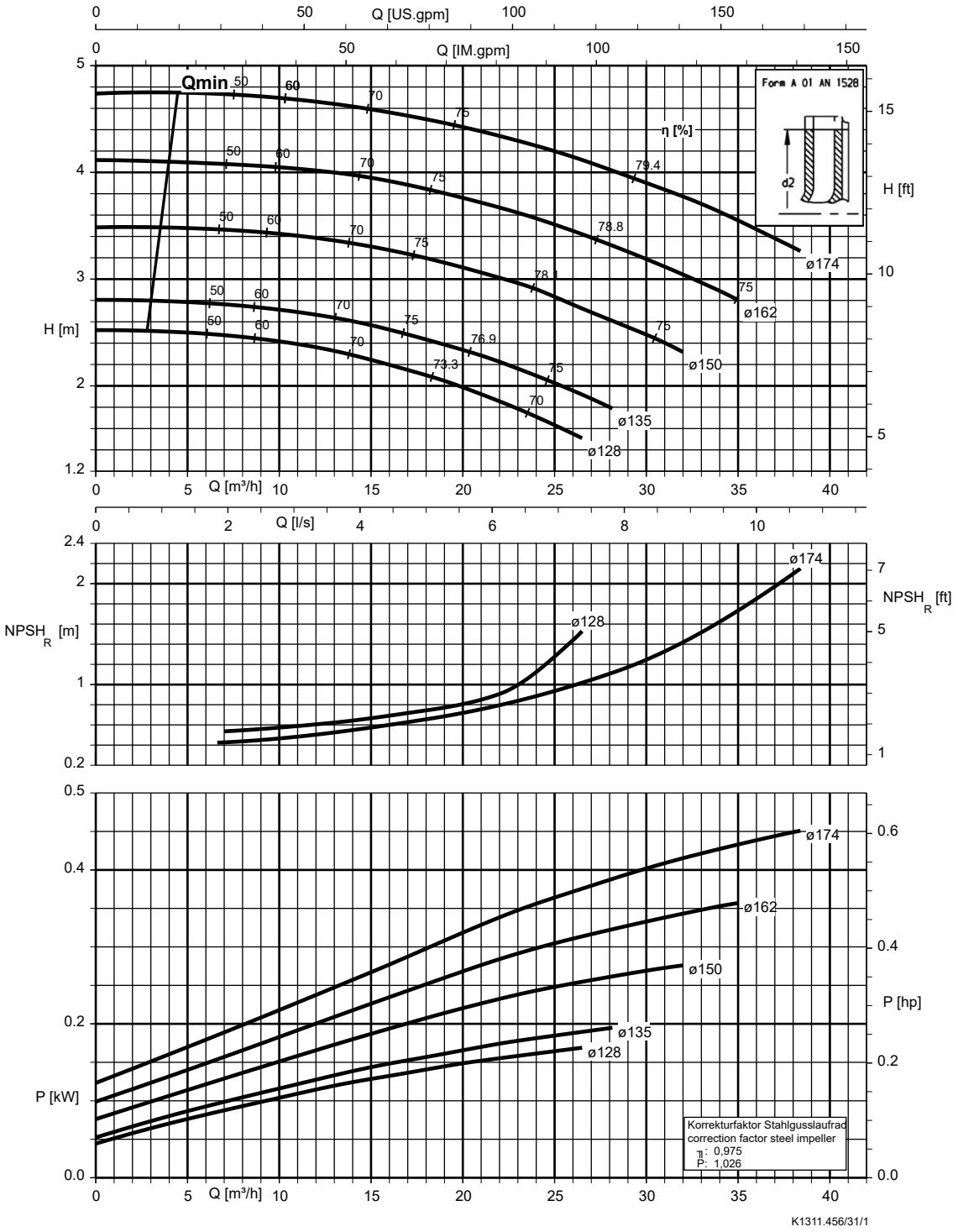
Etabloc



1311.45/12-FR

Etanorm 065-050-160, n = 960 t/min

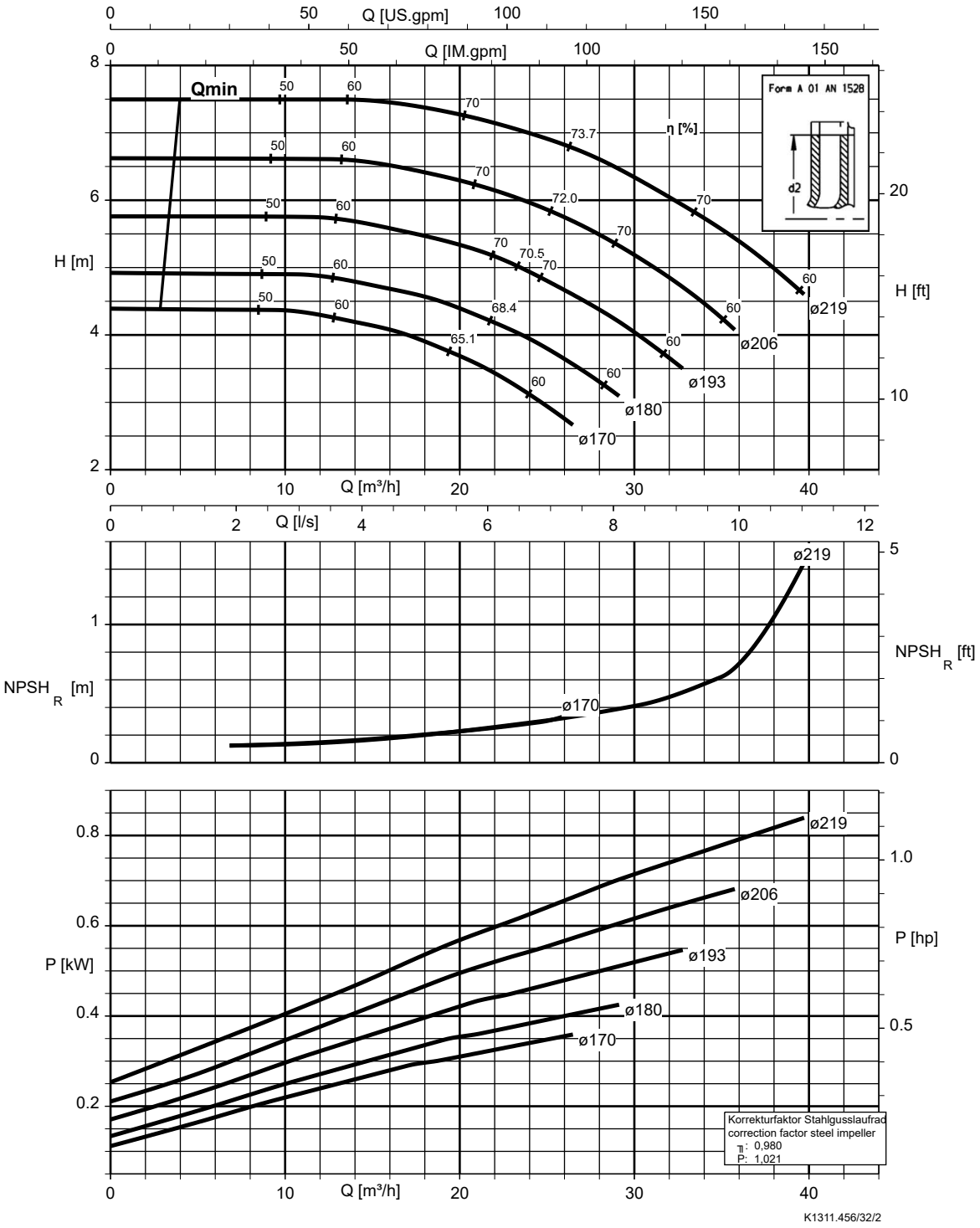
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 065-050-200, n = 960 t/min

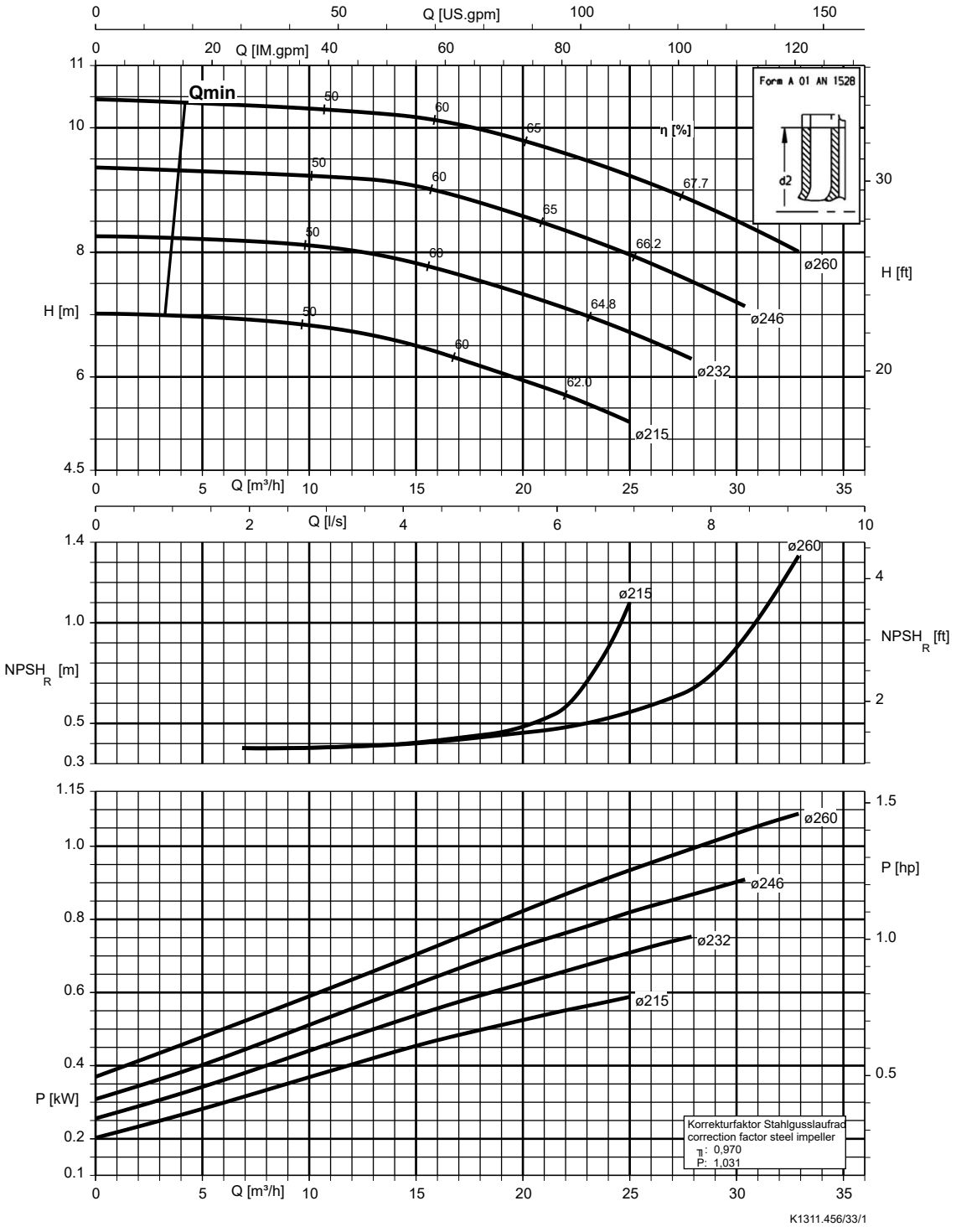
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 065-050-250, n = 960 t/min

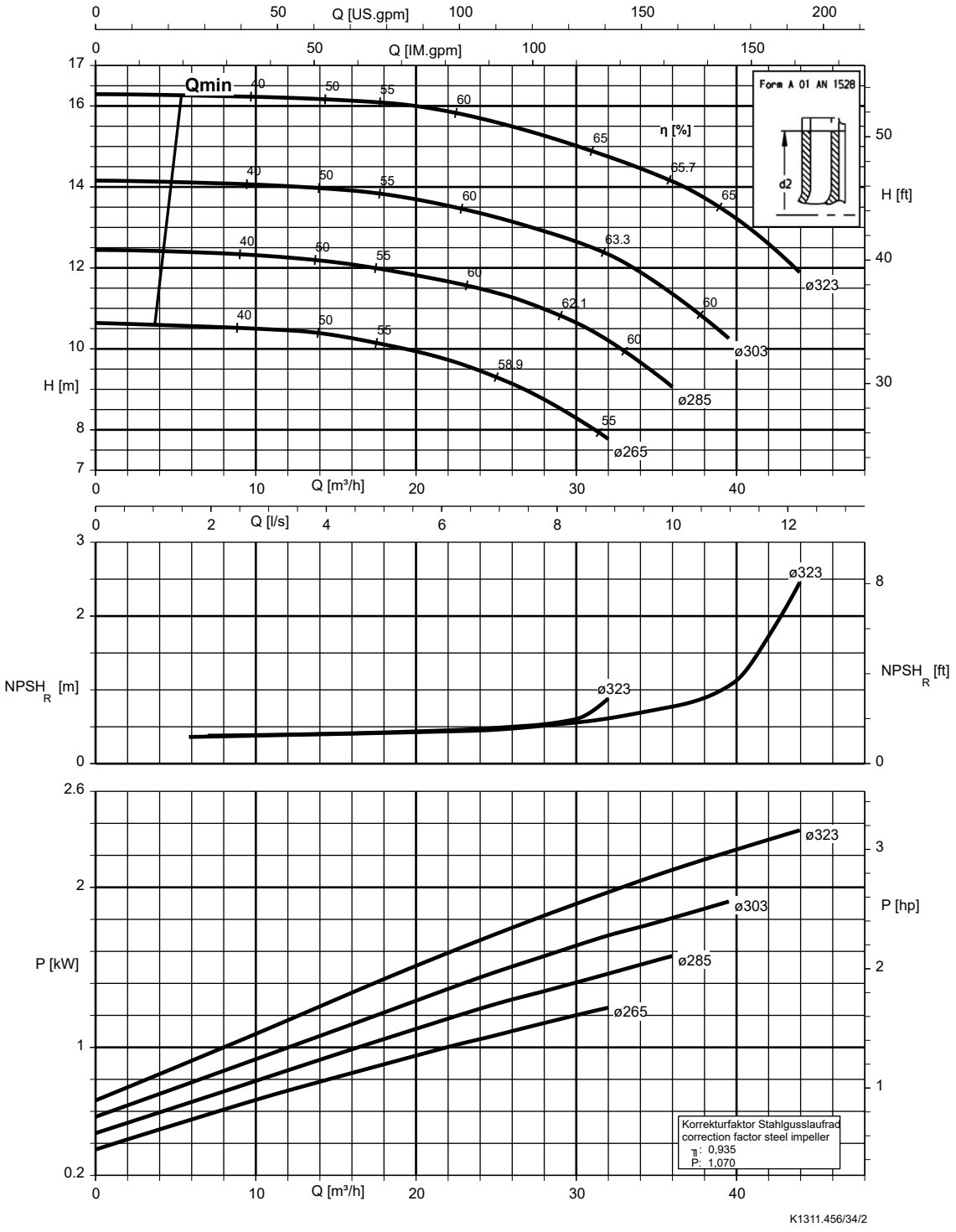
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 065-050-315, n = 960 t/min

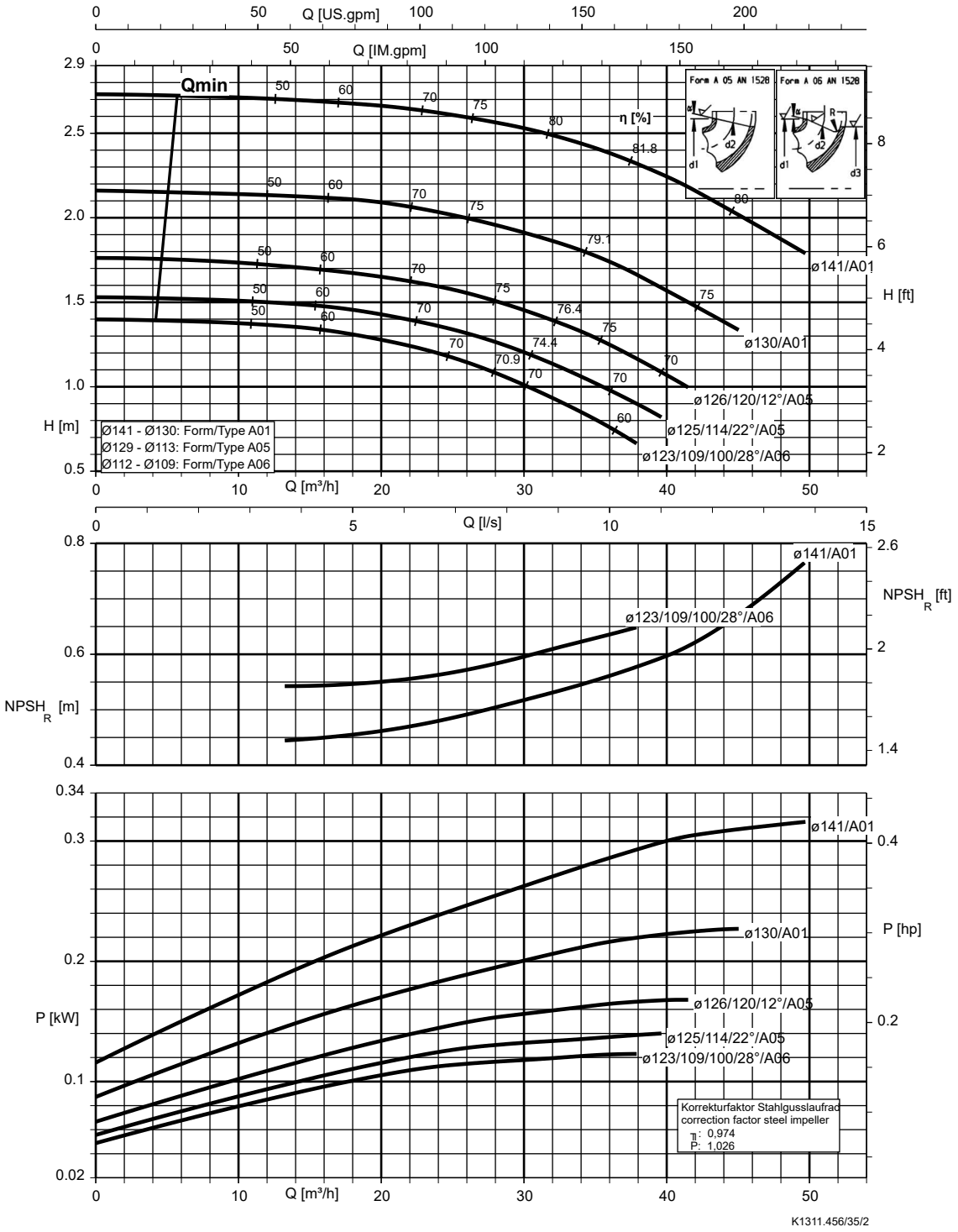
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 080-065-125, n = 960 t/min

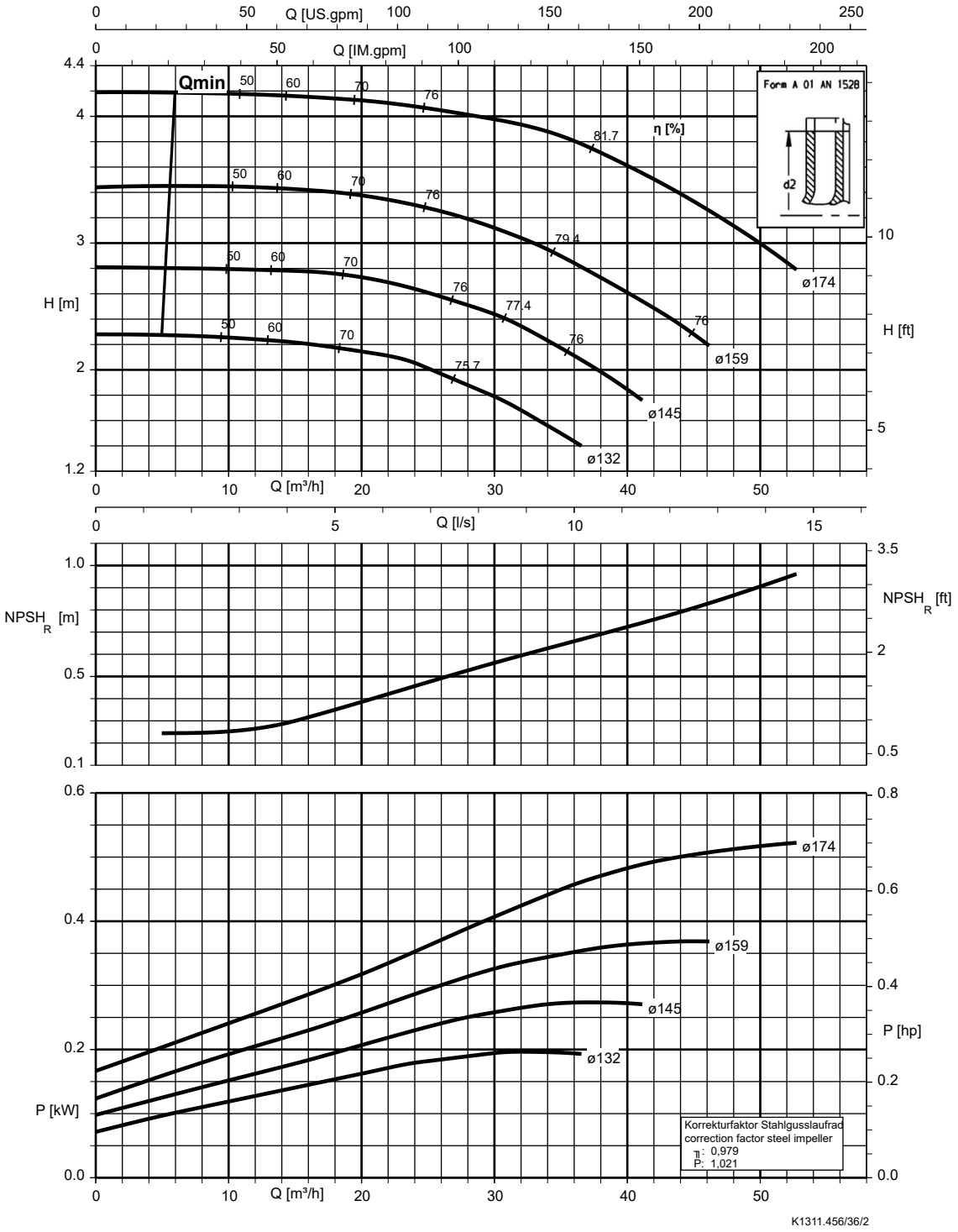
Etabloc



1311.45/12-FR

Etanorm 080-065-160, n = 960 t/min

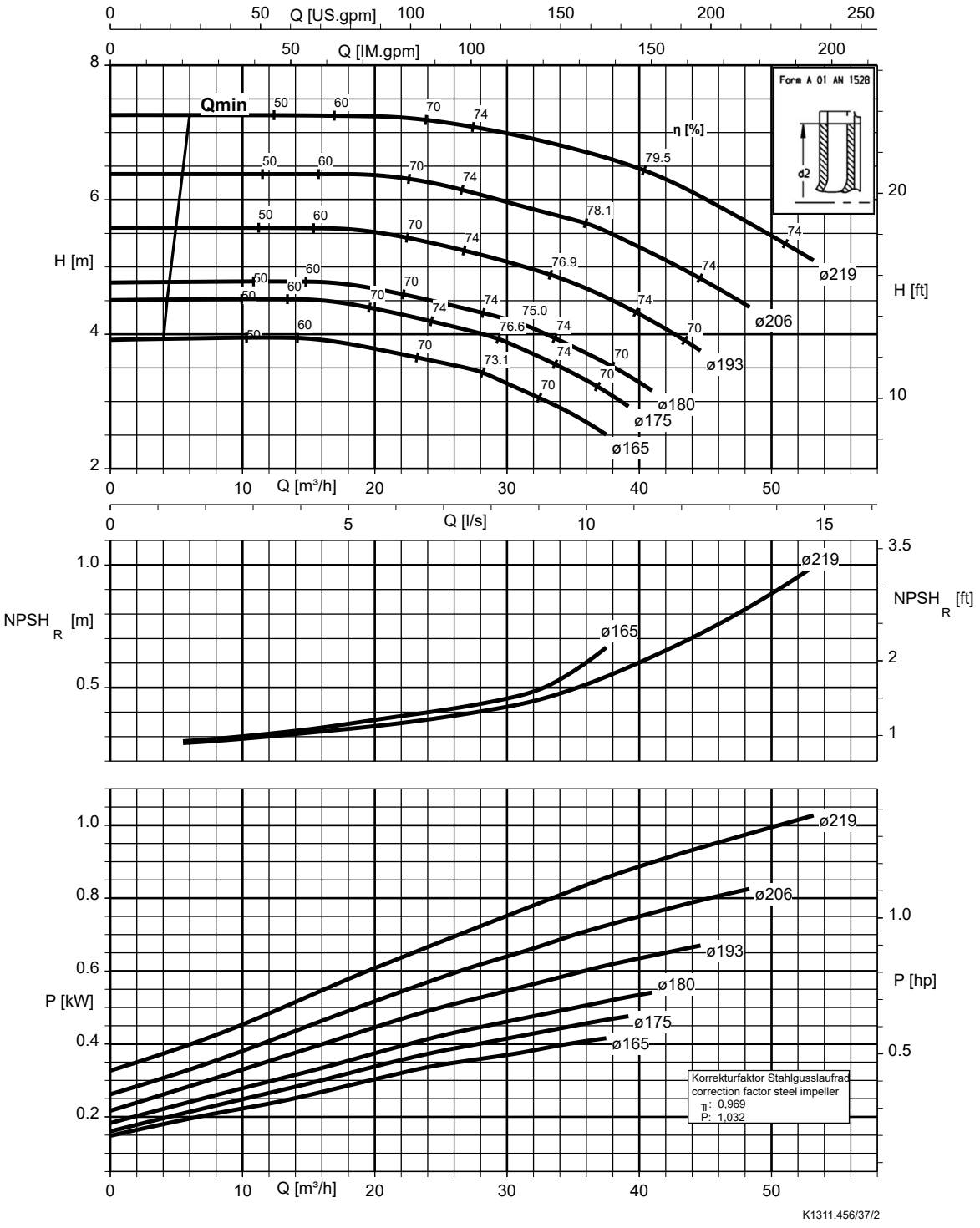
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 080-065-200, n = 960 t/min

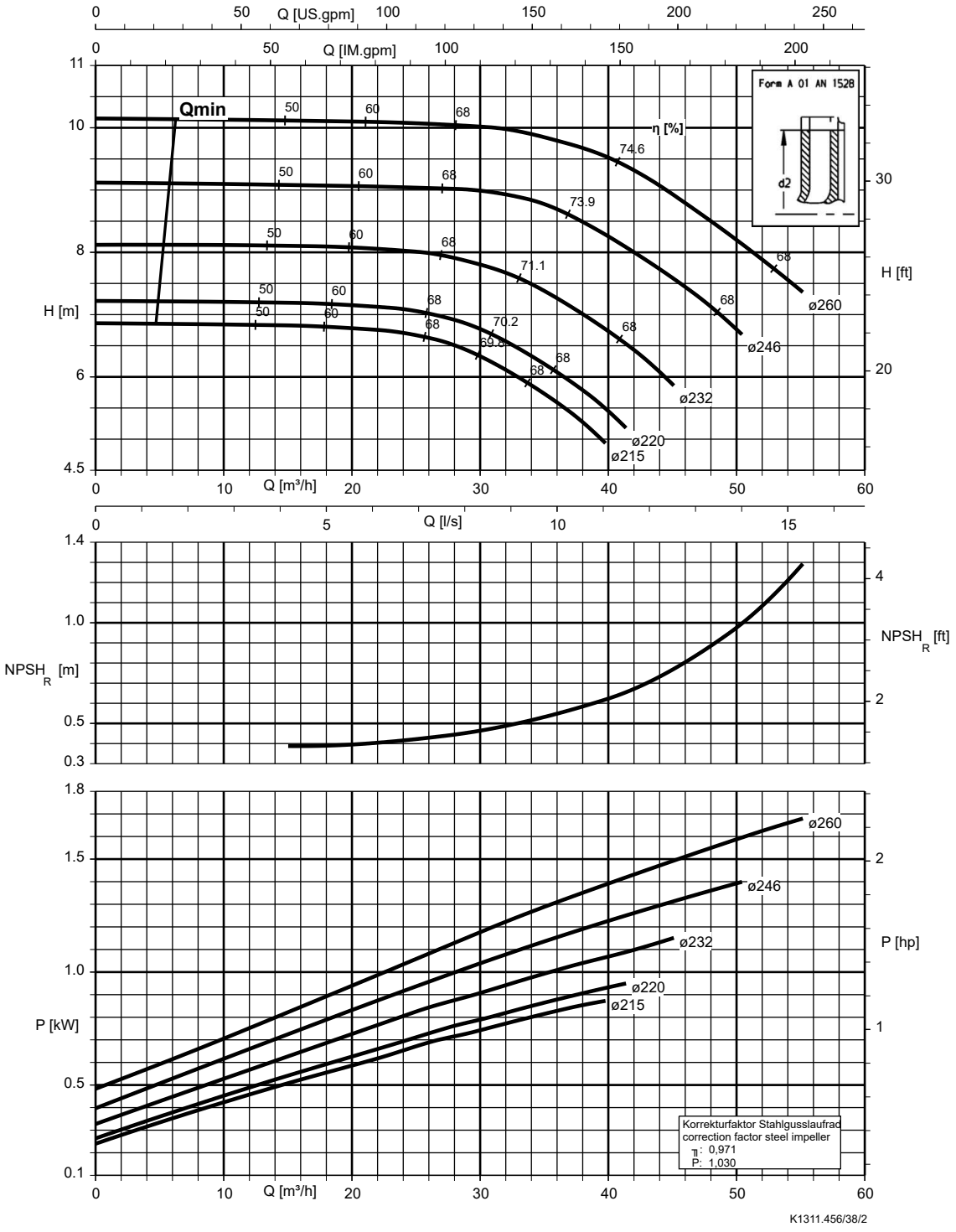
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 080-065-250, n = 960 t/min

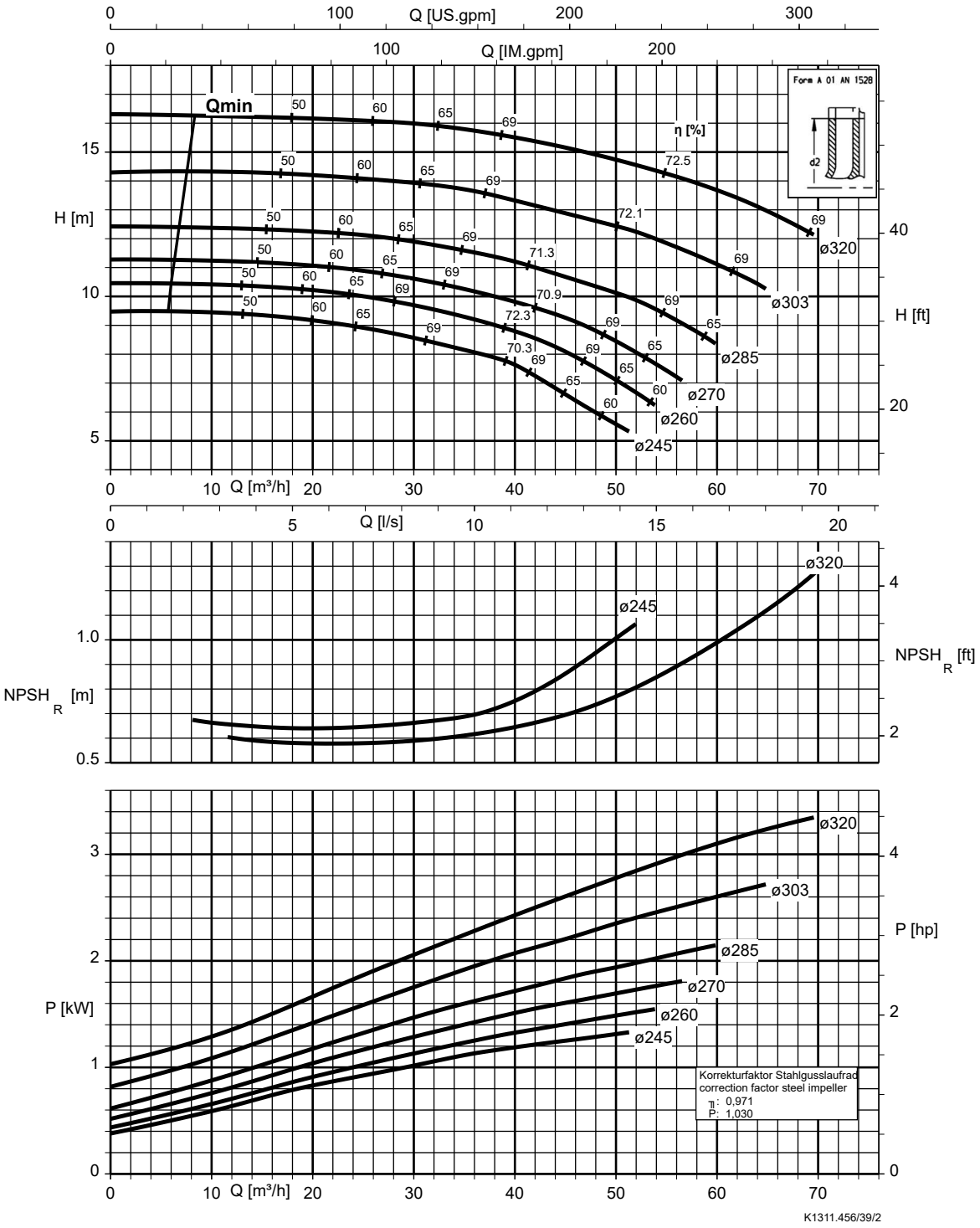
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 080-065-315, n = 960 t/min

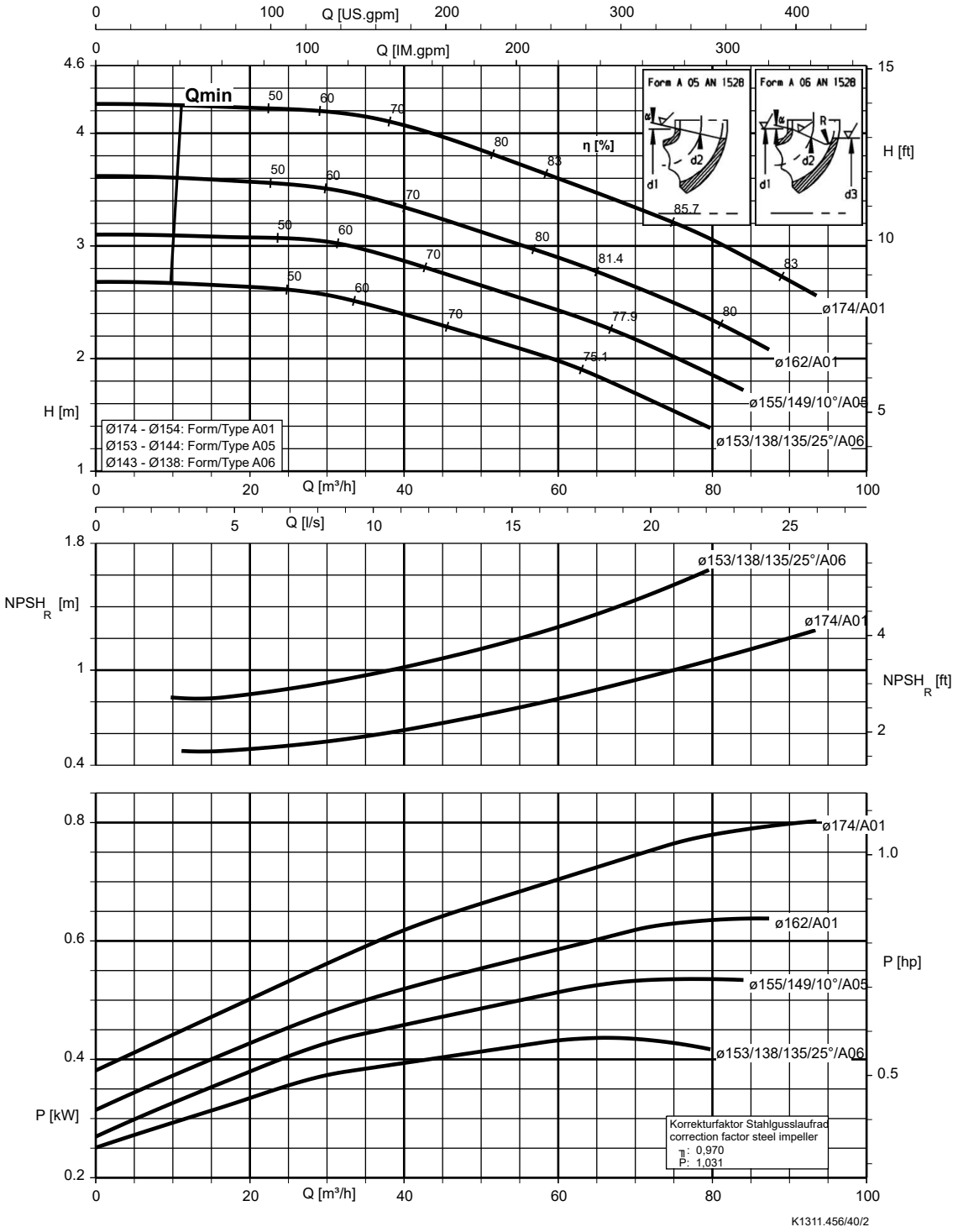
Etanorm SYT, Etabloc



1311.45/12-FR

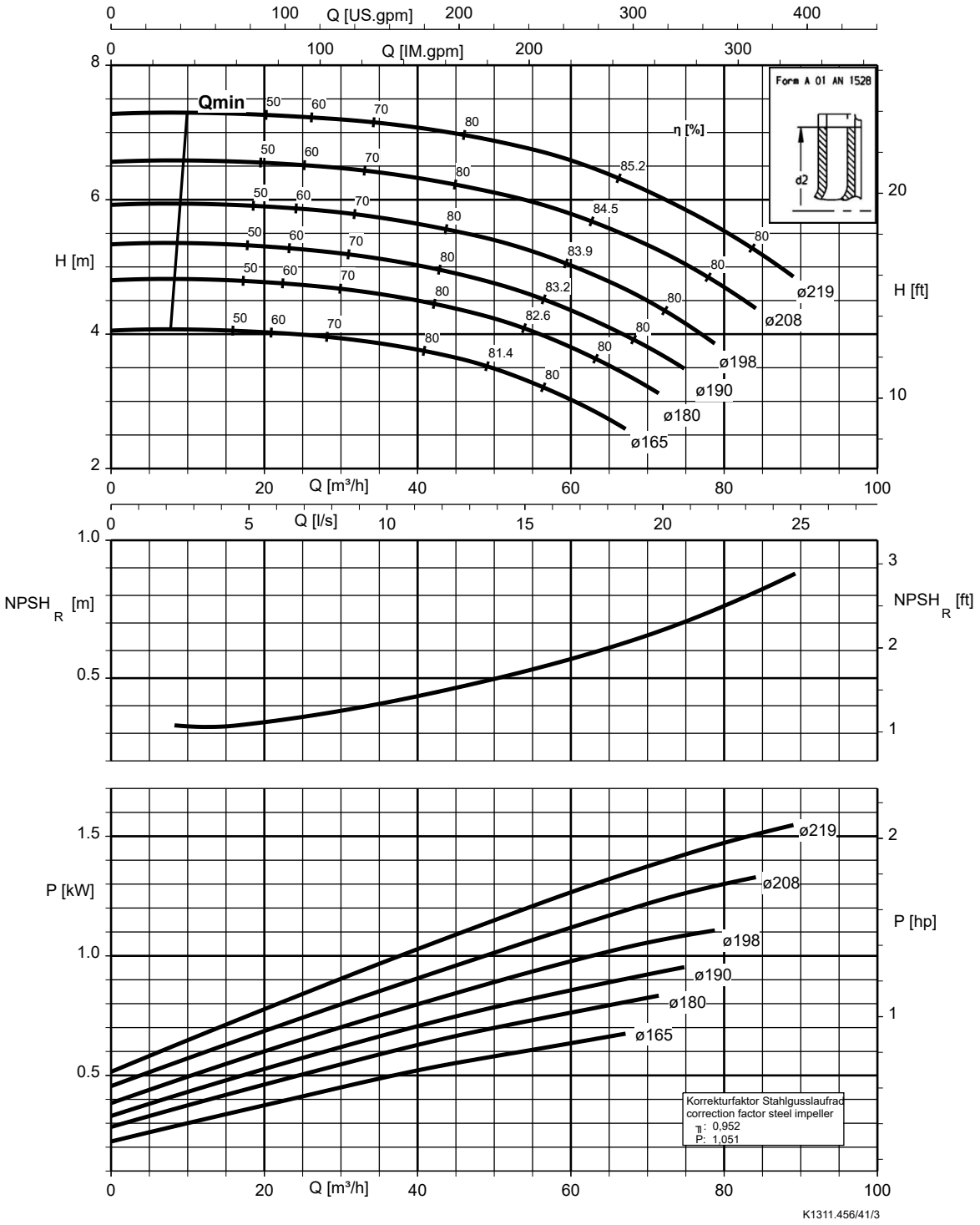
Etanorm 100-080-160, n = 960 t/min

Etanorm SYT, Etabloc



Etanorm 100-080-200, n = 960 t/min

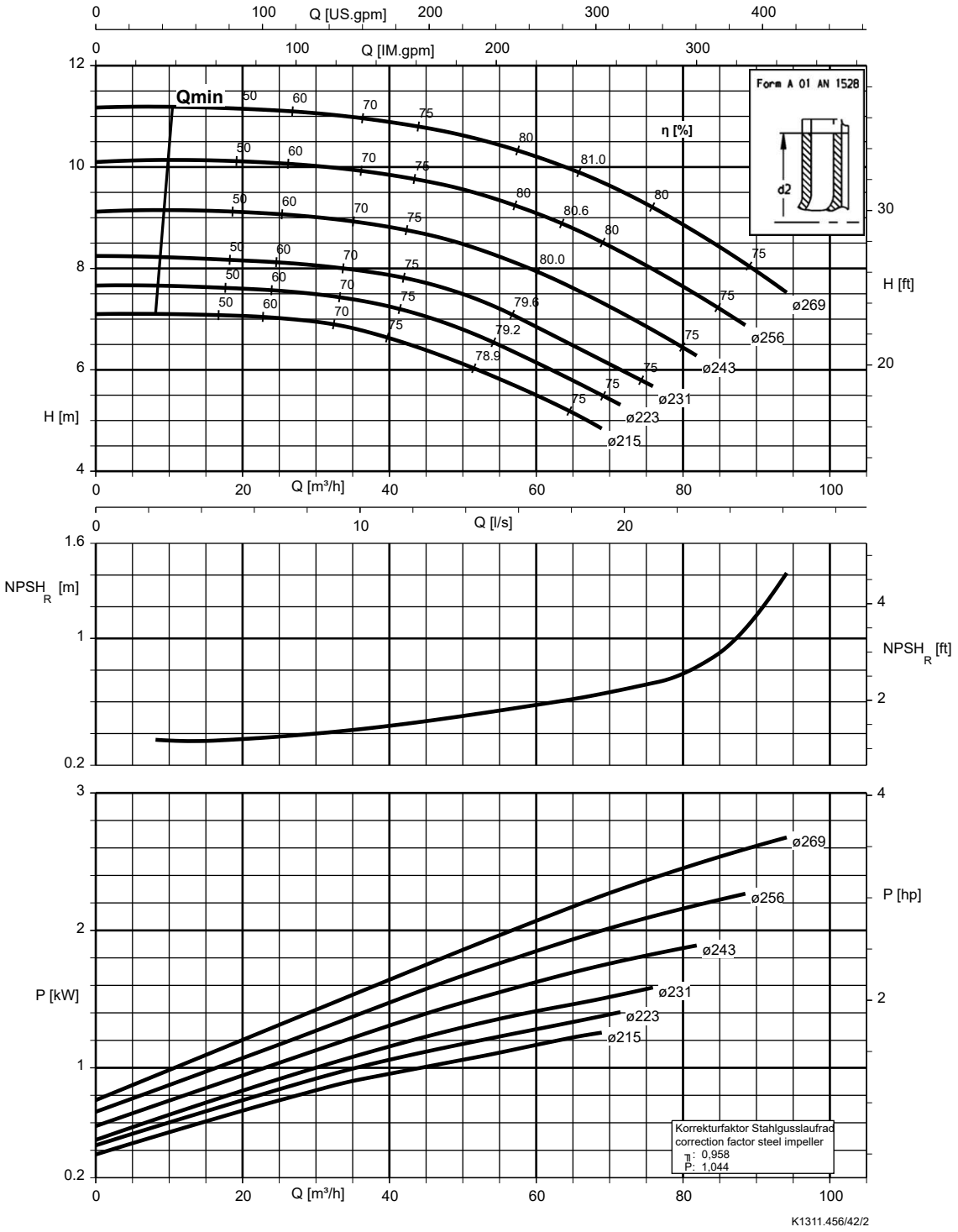
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 100-080-250, n = 960 t/min

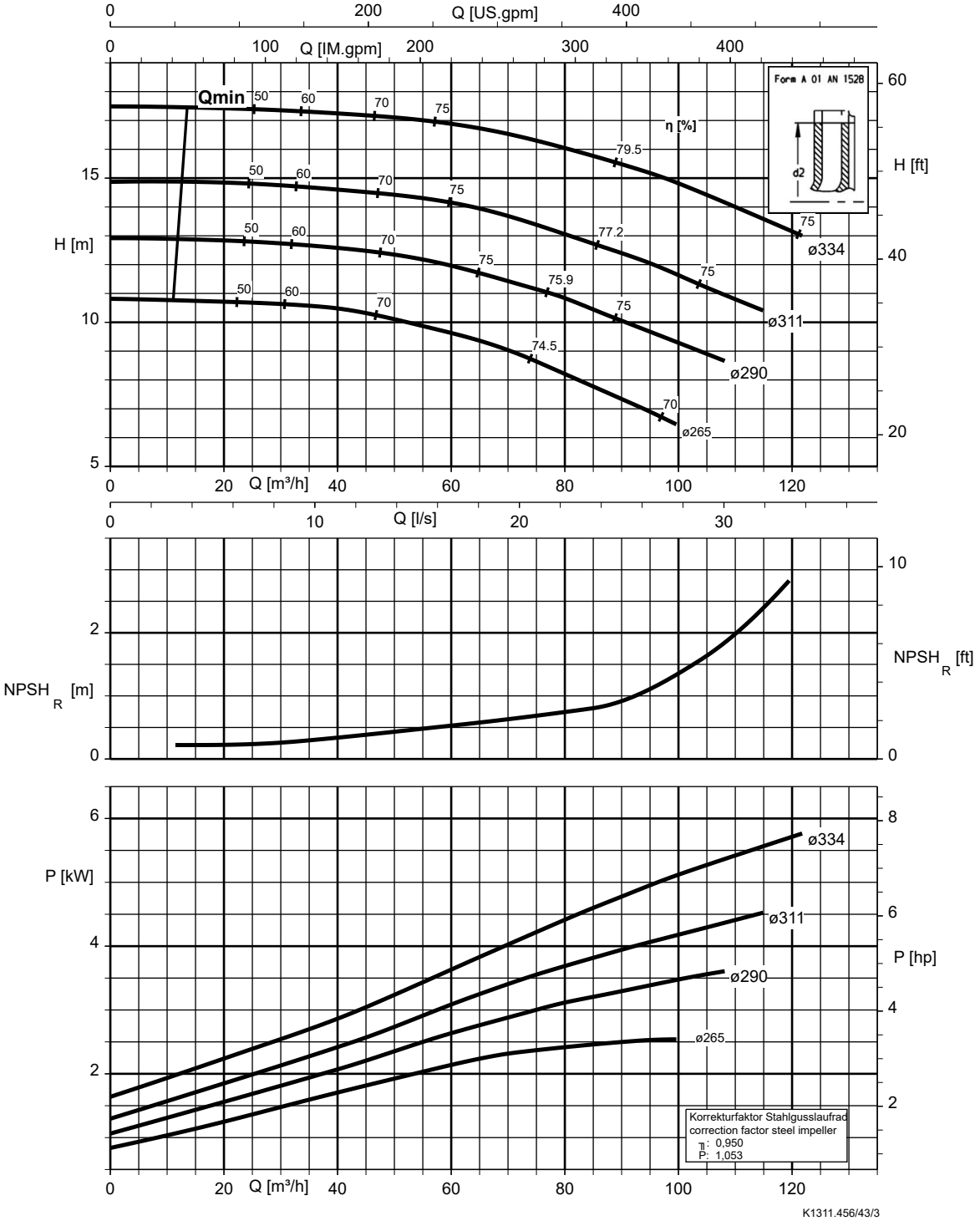
Etanorm SYT, Etabloc



1311.45/12-FR

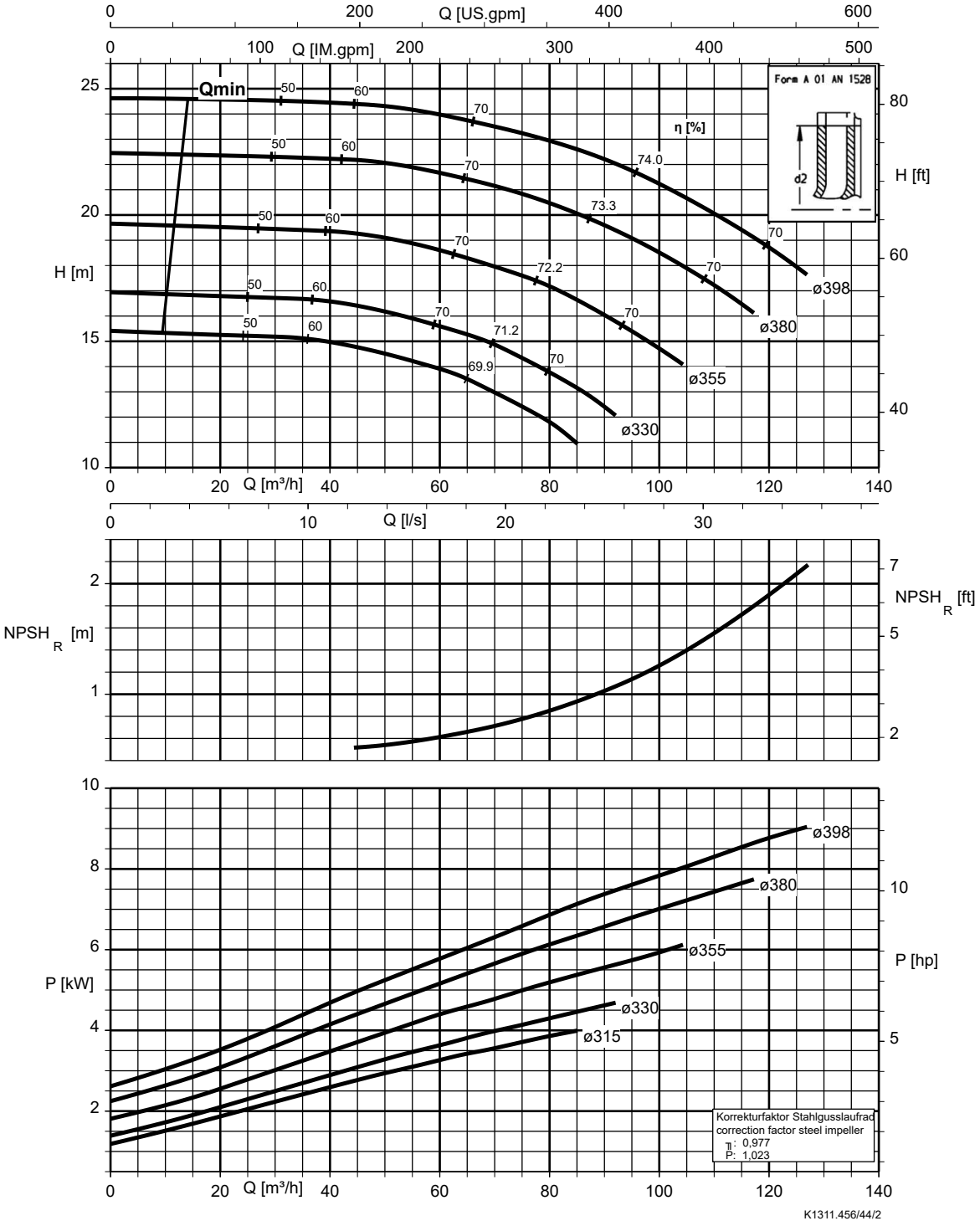
Etanorm 100-080-315, n = 960 t/min

Etanorm SYT, Etabloc



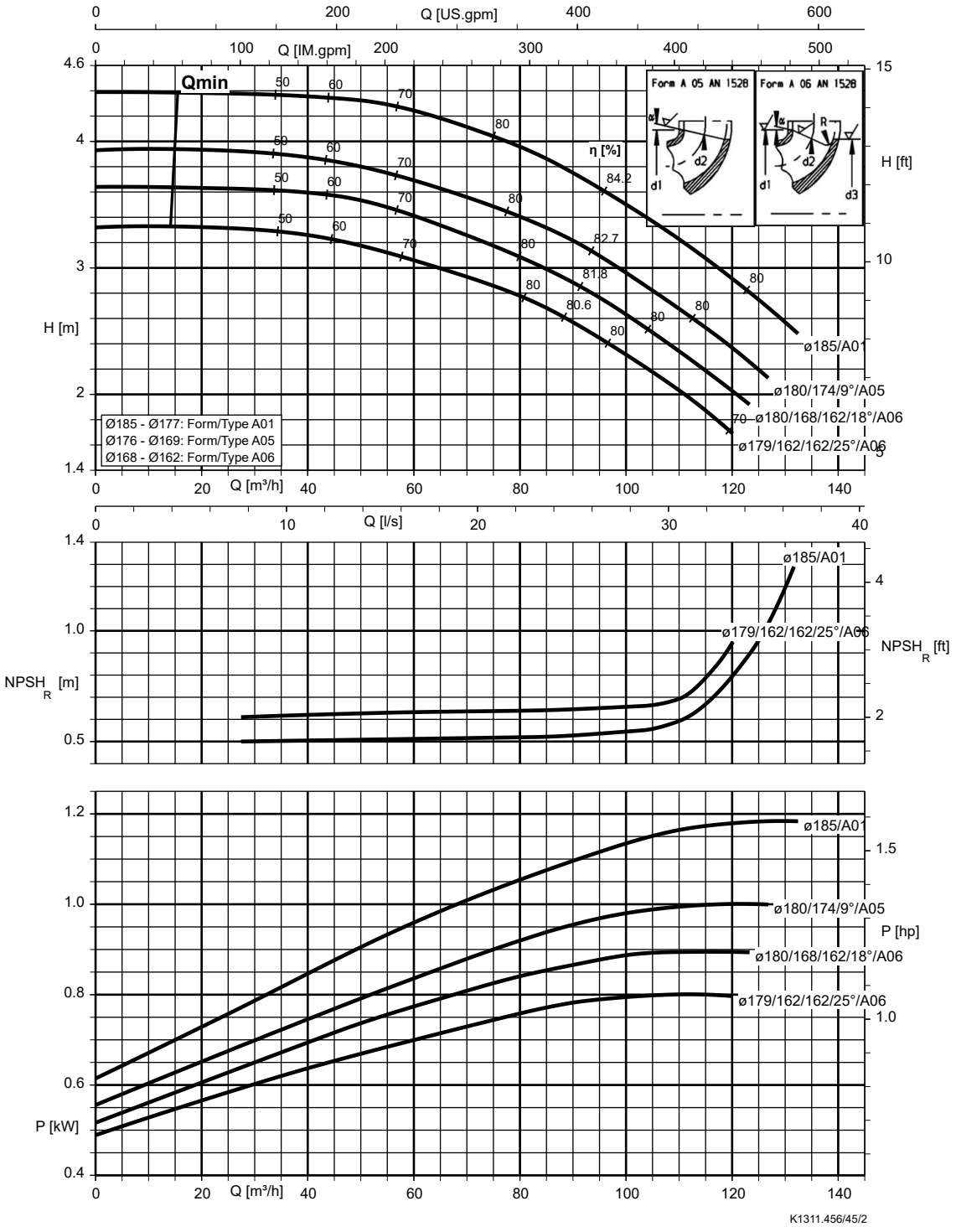
1311.45/12-FR

Etanorm 100-080-400, n = 960 t/min



Etanorm 125-100-160, n = 960 t/min

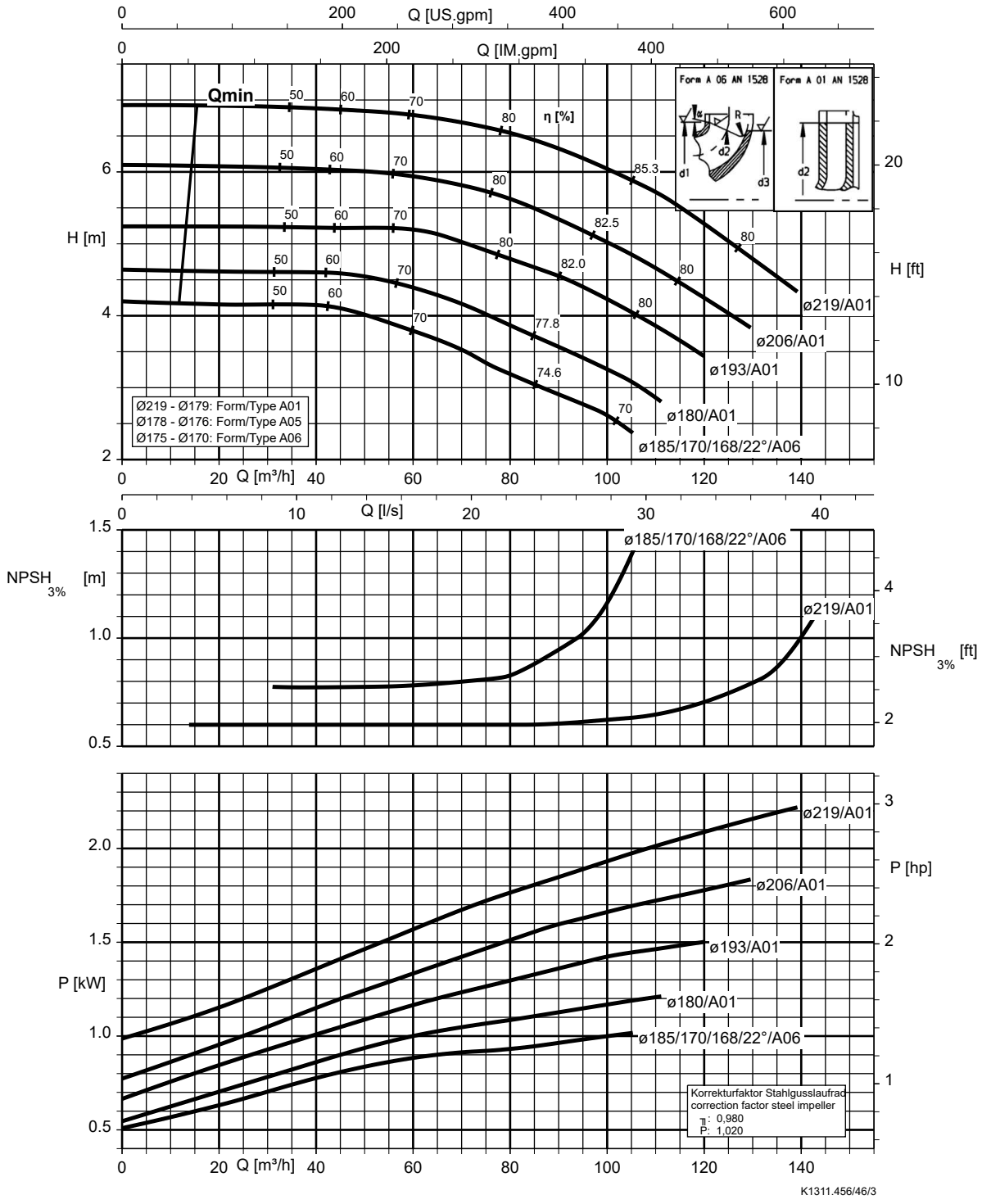
Etanorm SYT, Etabloc



1311.45/12-FR

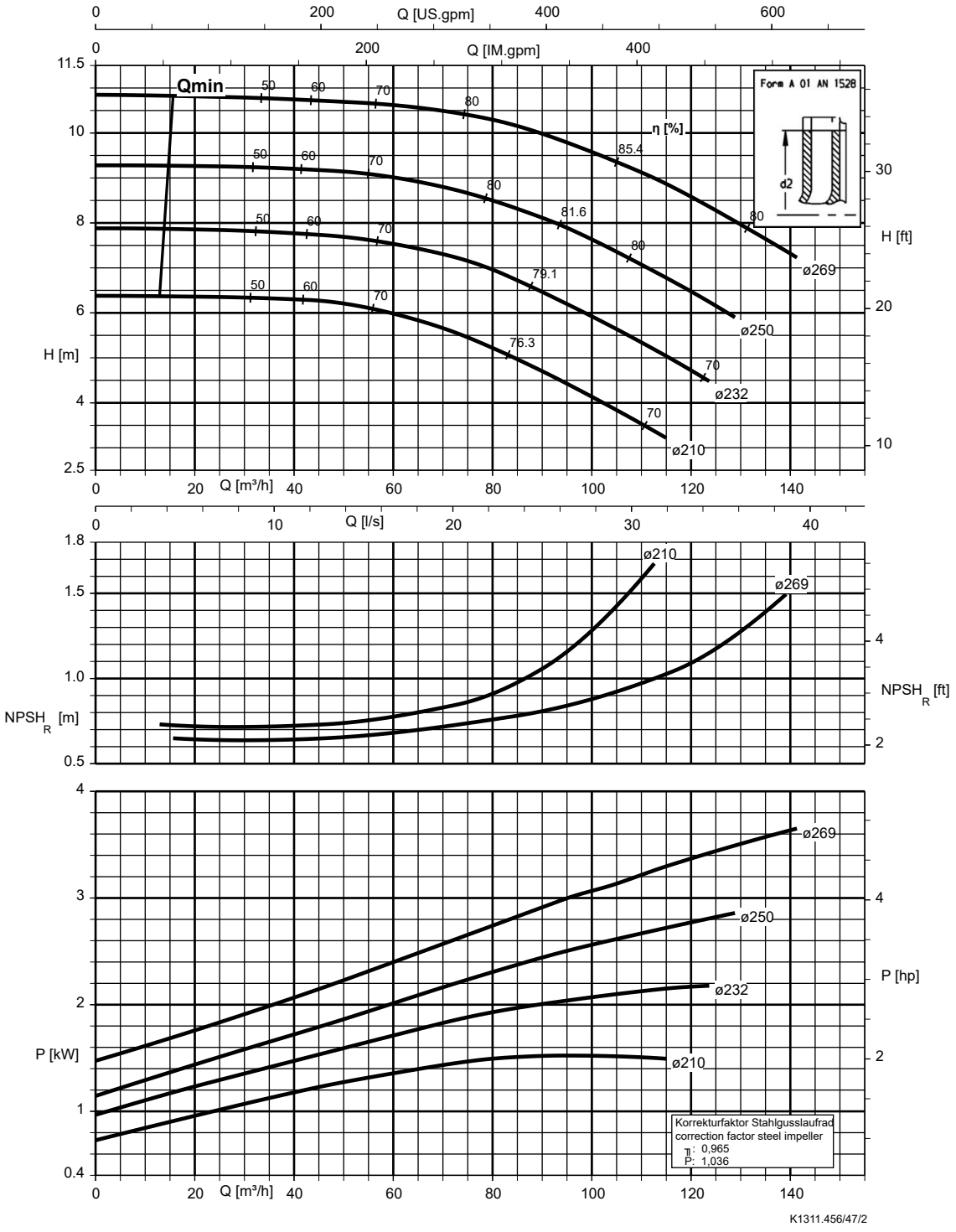
Etanorm 125-100-200, n = 960 t/min

Etanorm SYT, Etabloc



Etanorm 125-100-250, n = 960 t/min

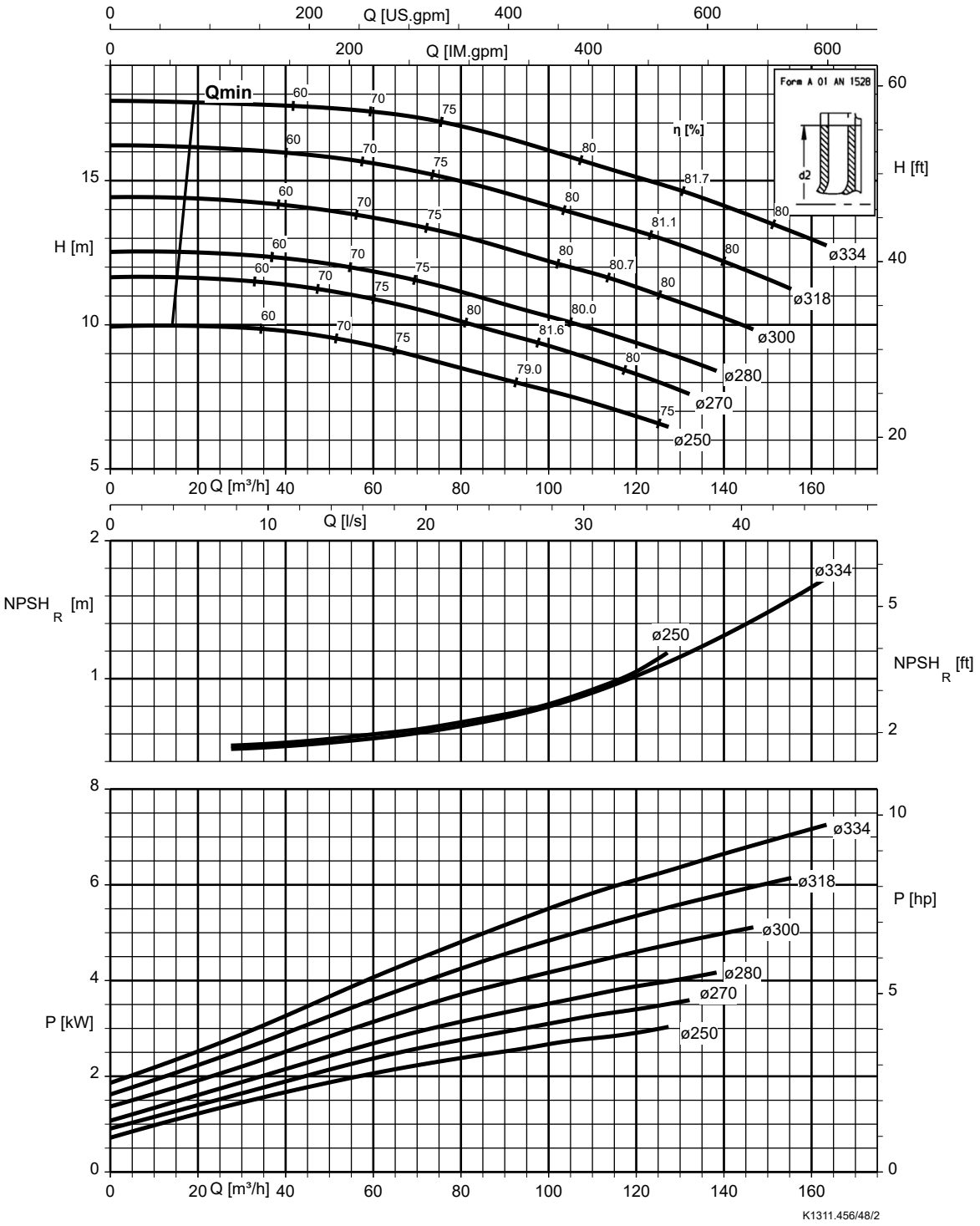
Etanorm SYT, Etabloc



1311.45/12-FR

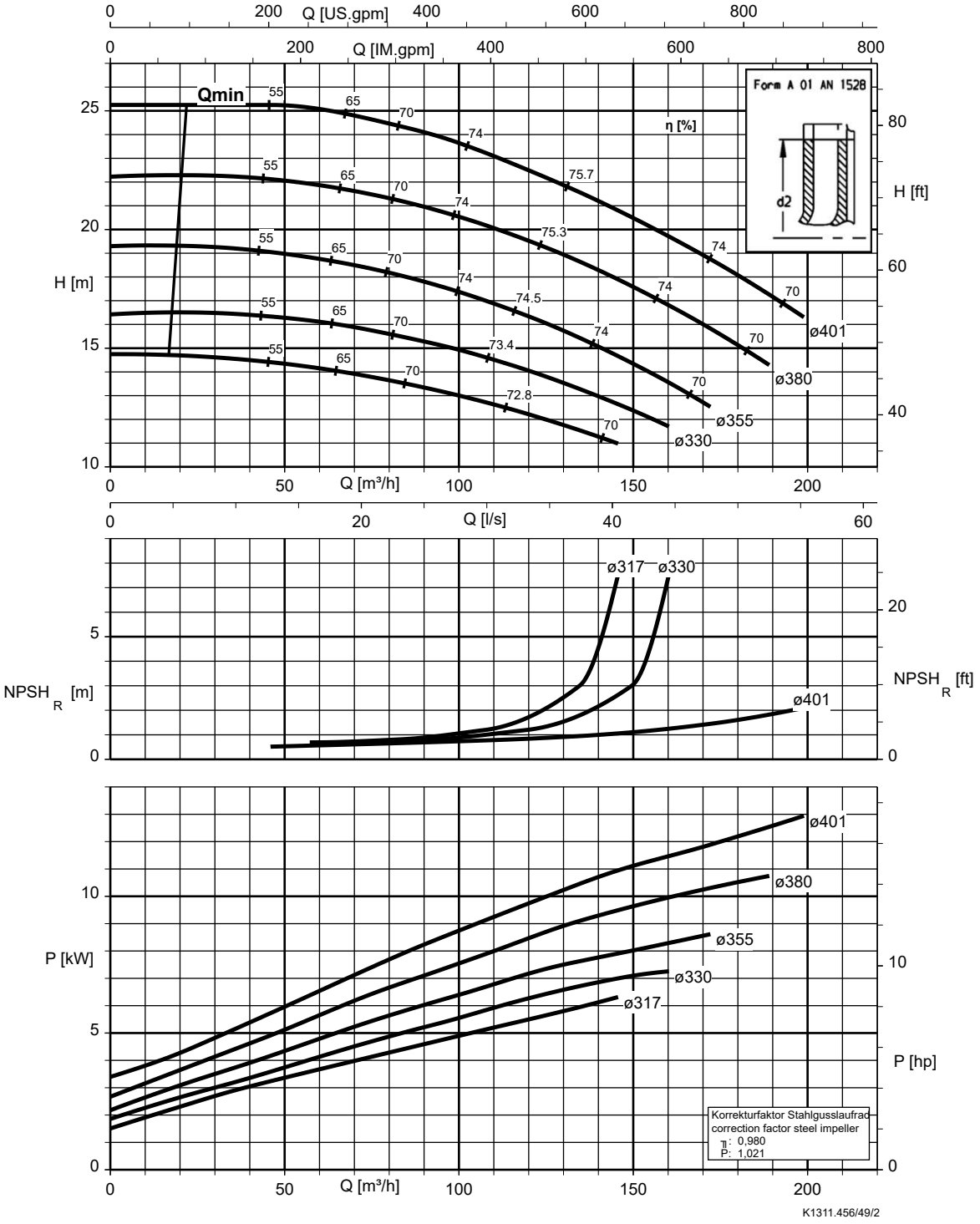
Etanorm 125-100-315, n = 960 t/min

Etanorm SYT, Etabloc



1311.45/12-FR

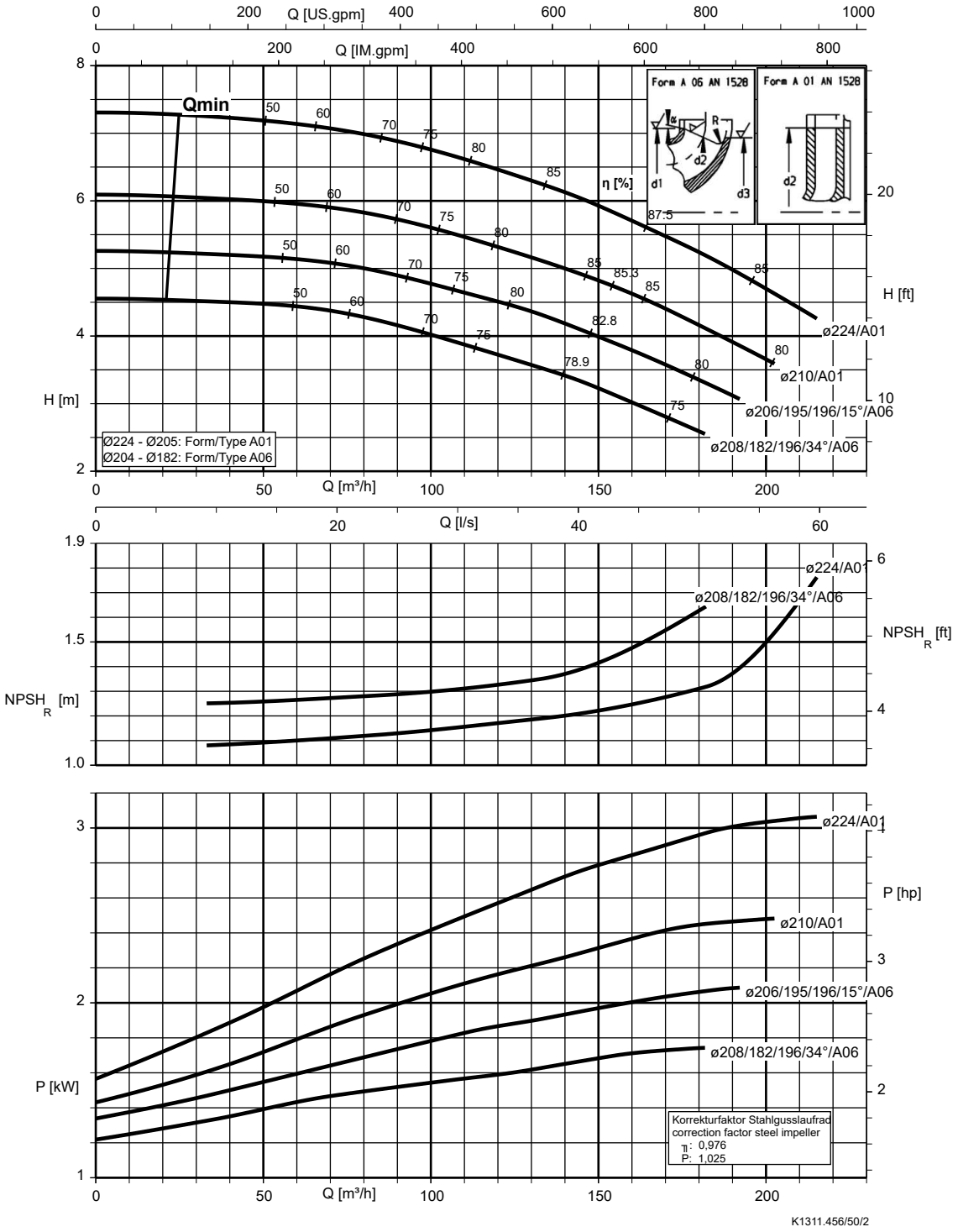
Etanorm 125-100-400, n = 960 t/min



1311.45/12-FR

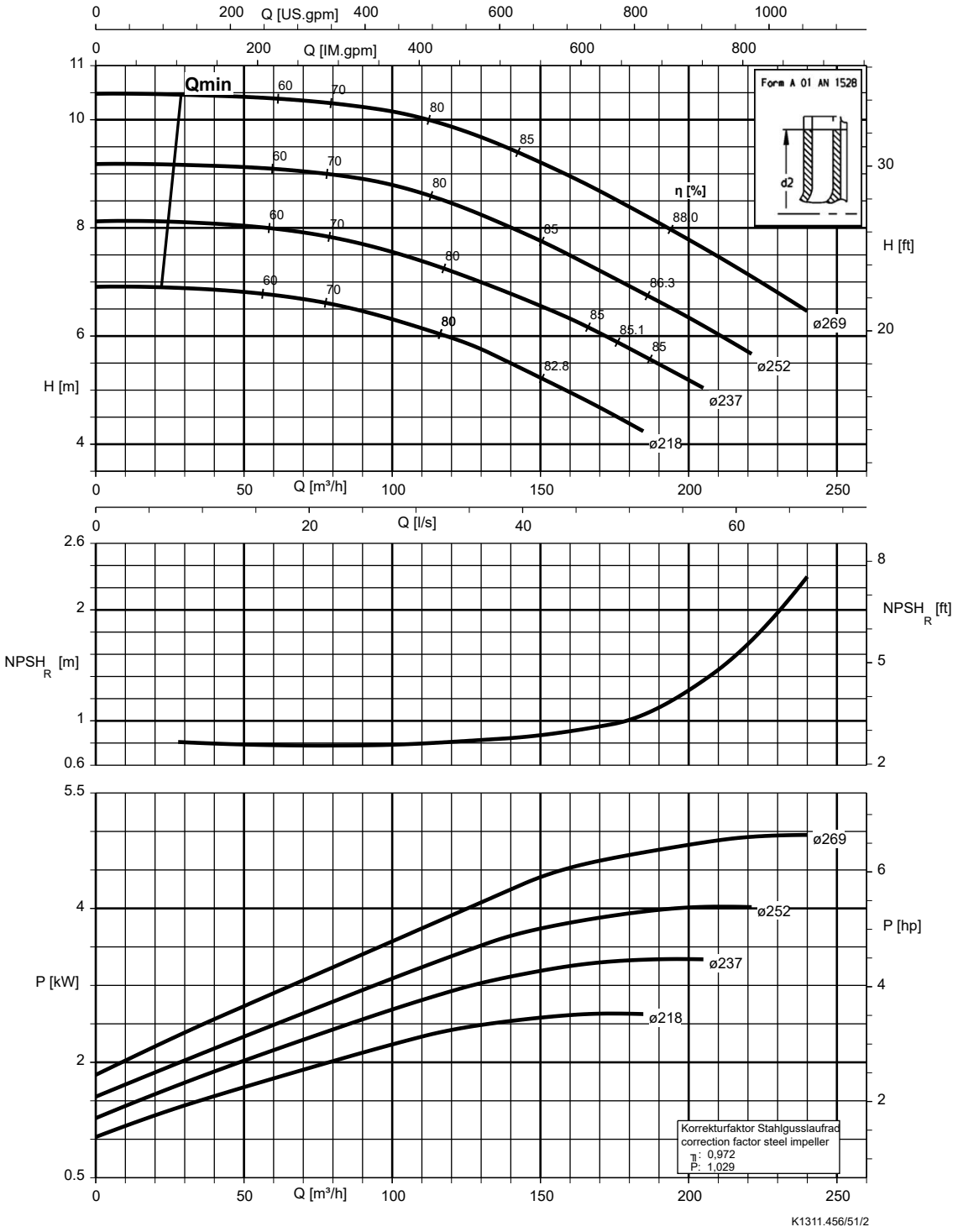
Etanorm 150-125-200, n = 960 t/min

Etanorm SYT, Etabloc



Etanorm 150-125-250, n = 960 t/min

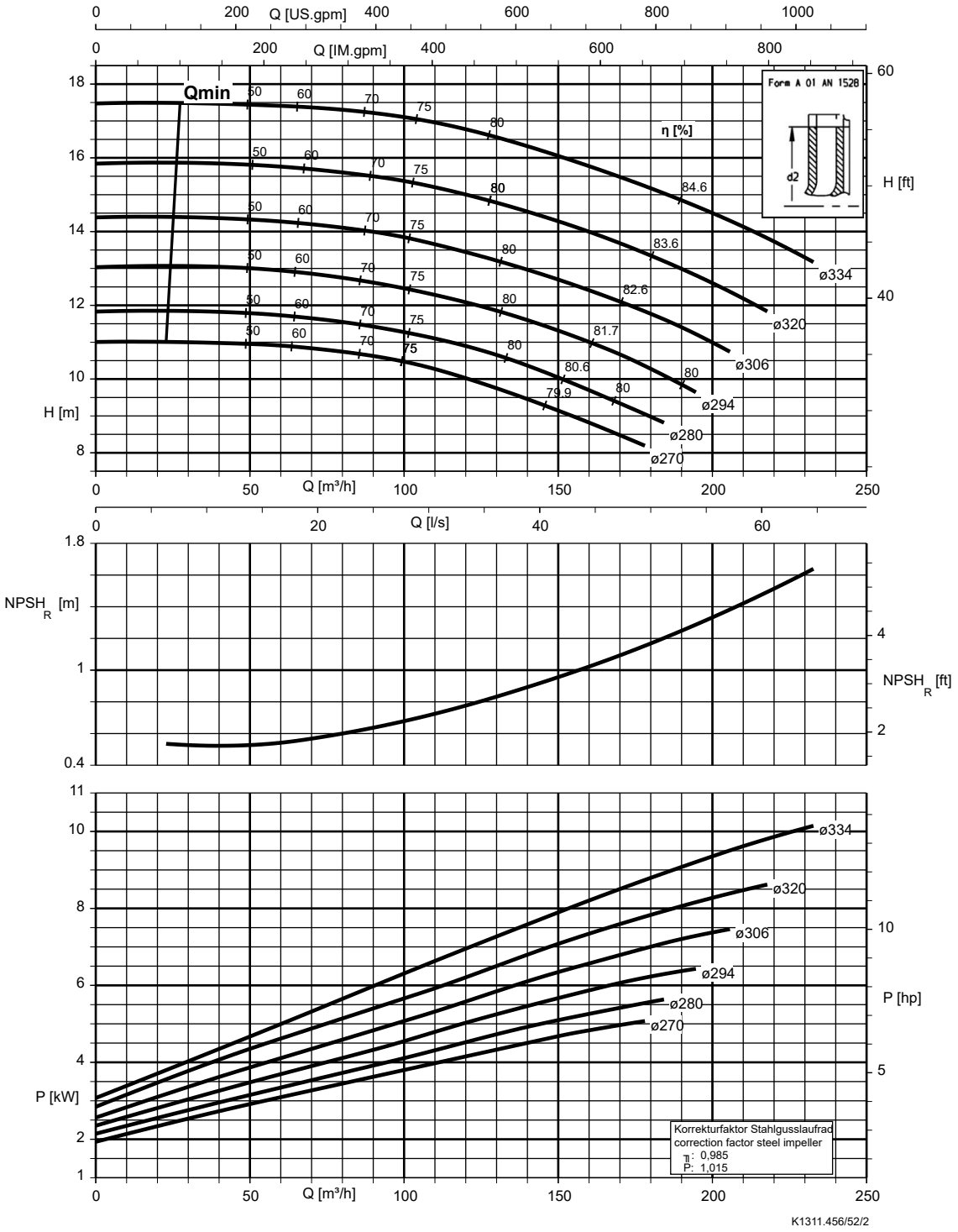
Etanorm SYT, Etabloc



1311.45/12-FR

Etanorm 150-125-315, n = 960 t/min

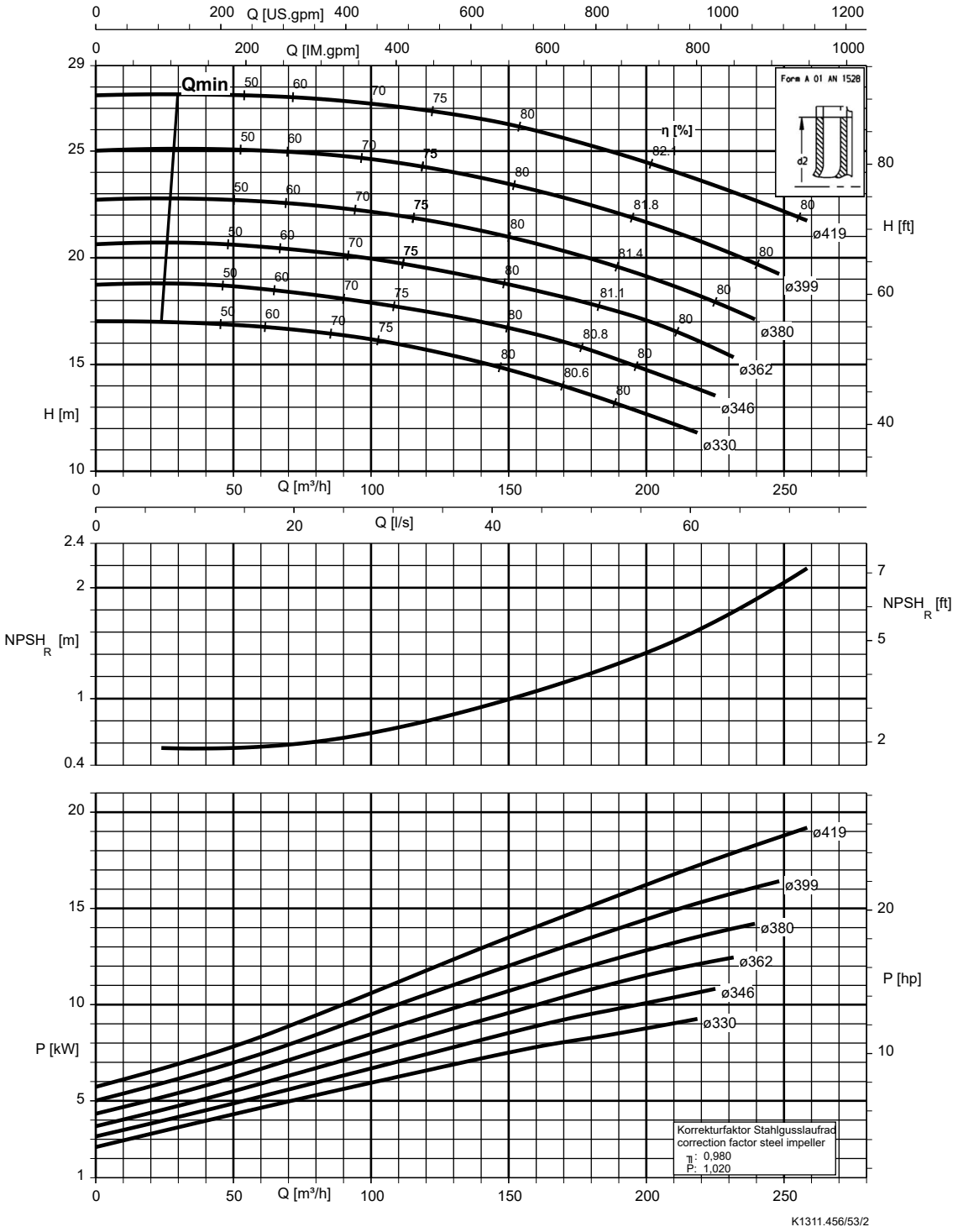
Etanorm SYT



1311.45/12-FR

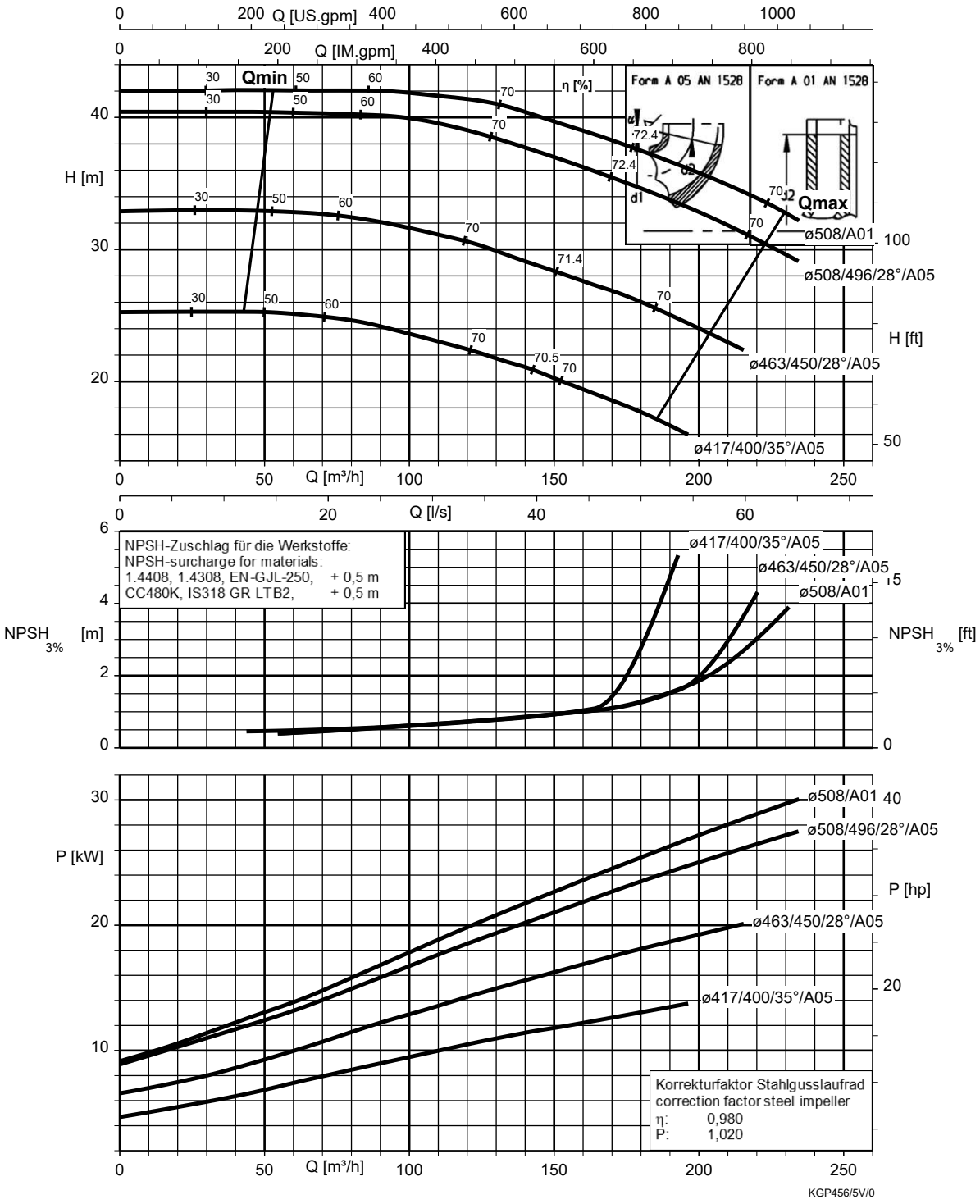
Etanorm 150-125-400, n = 960 t/min

Etanorm SYT



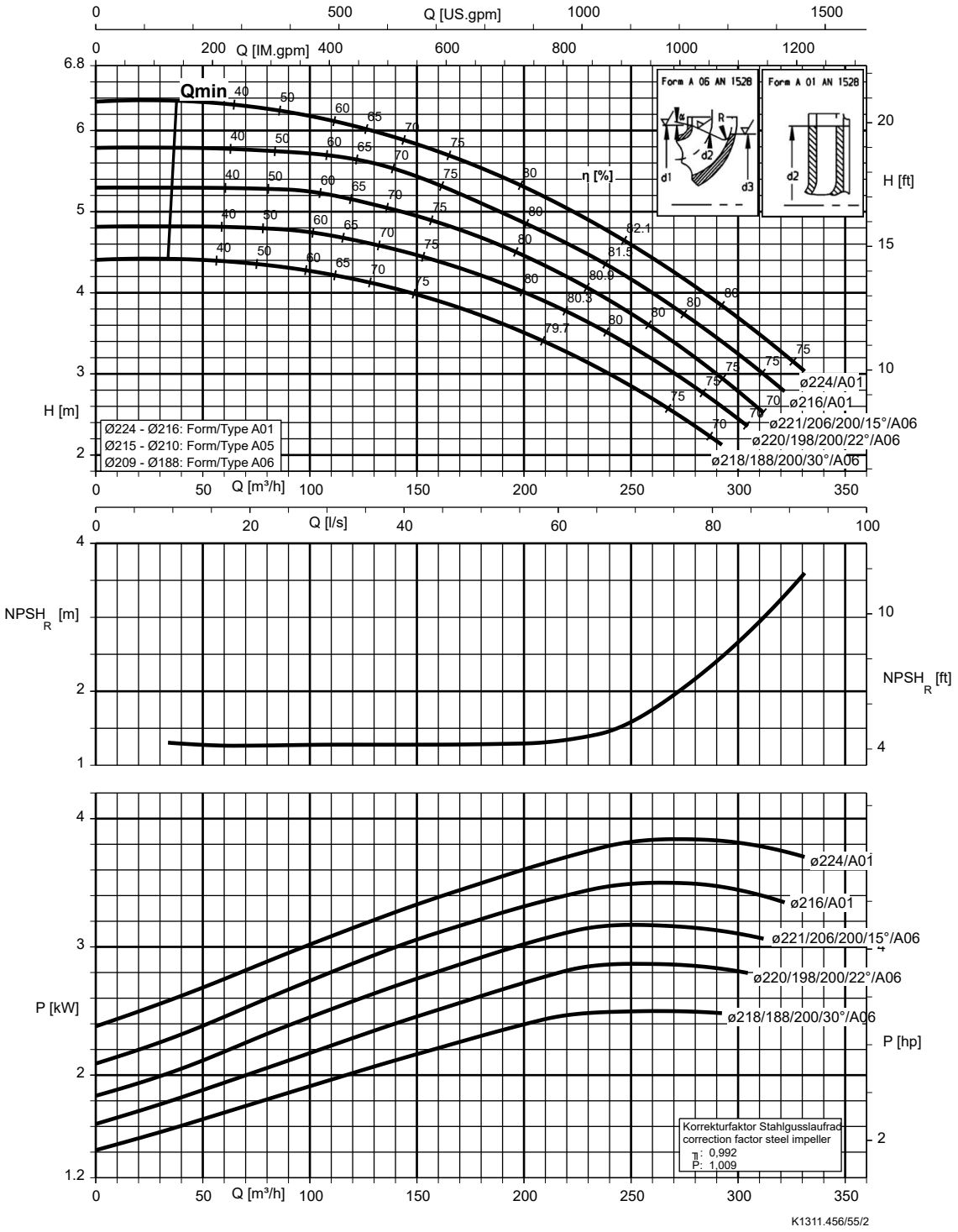
1311.45/12-FR

Etanorm 150-125-510, n = 960 t/min



Etanorm 200-150-200, n = 960 t/min

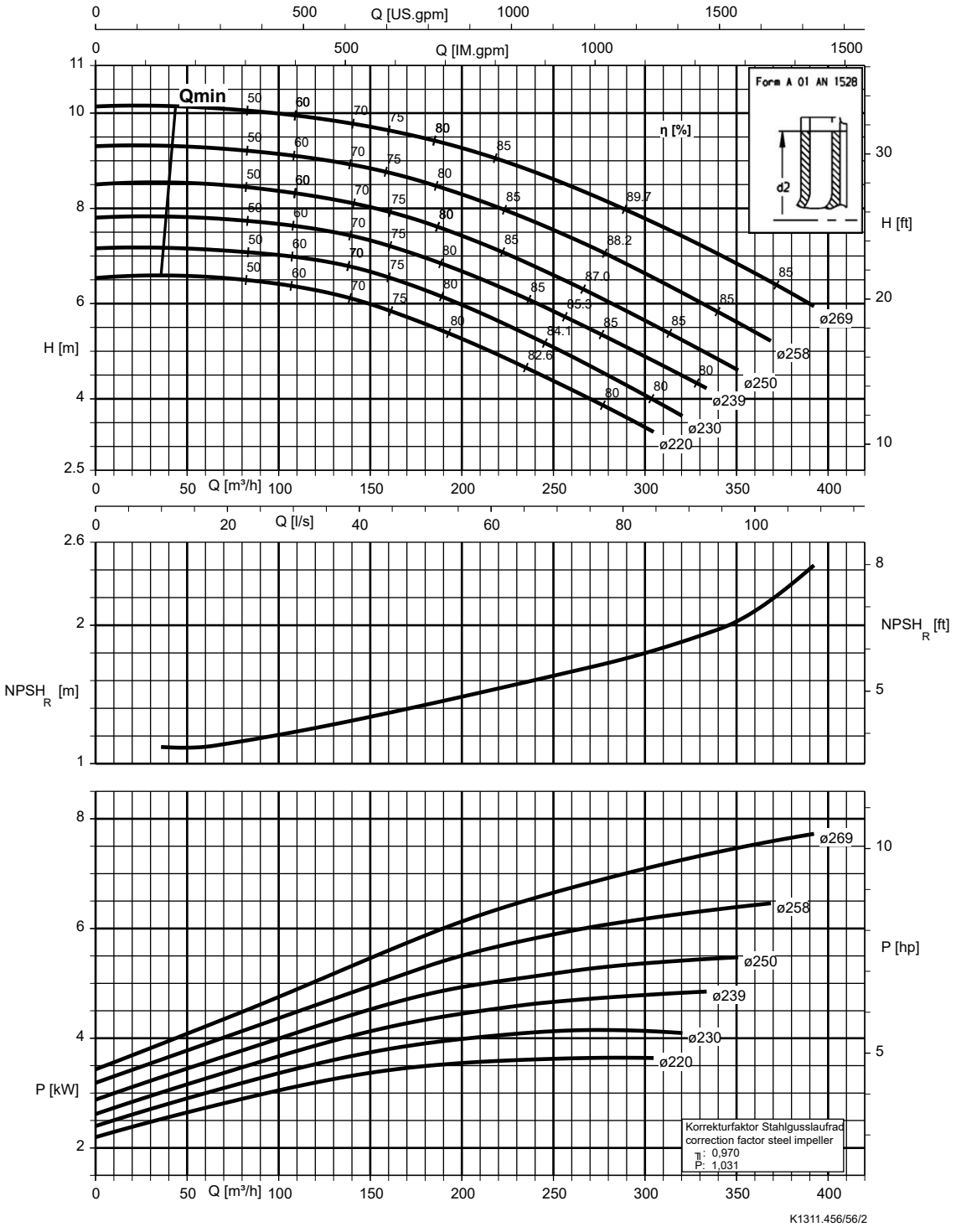
Etabloc



1311.45/12-FR

Etanorm 200-150-250, n = 960 t/min

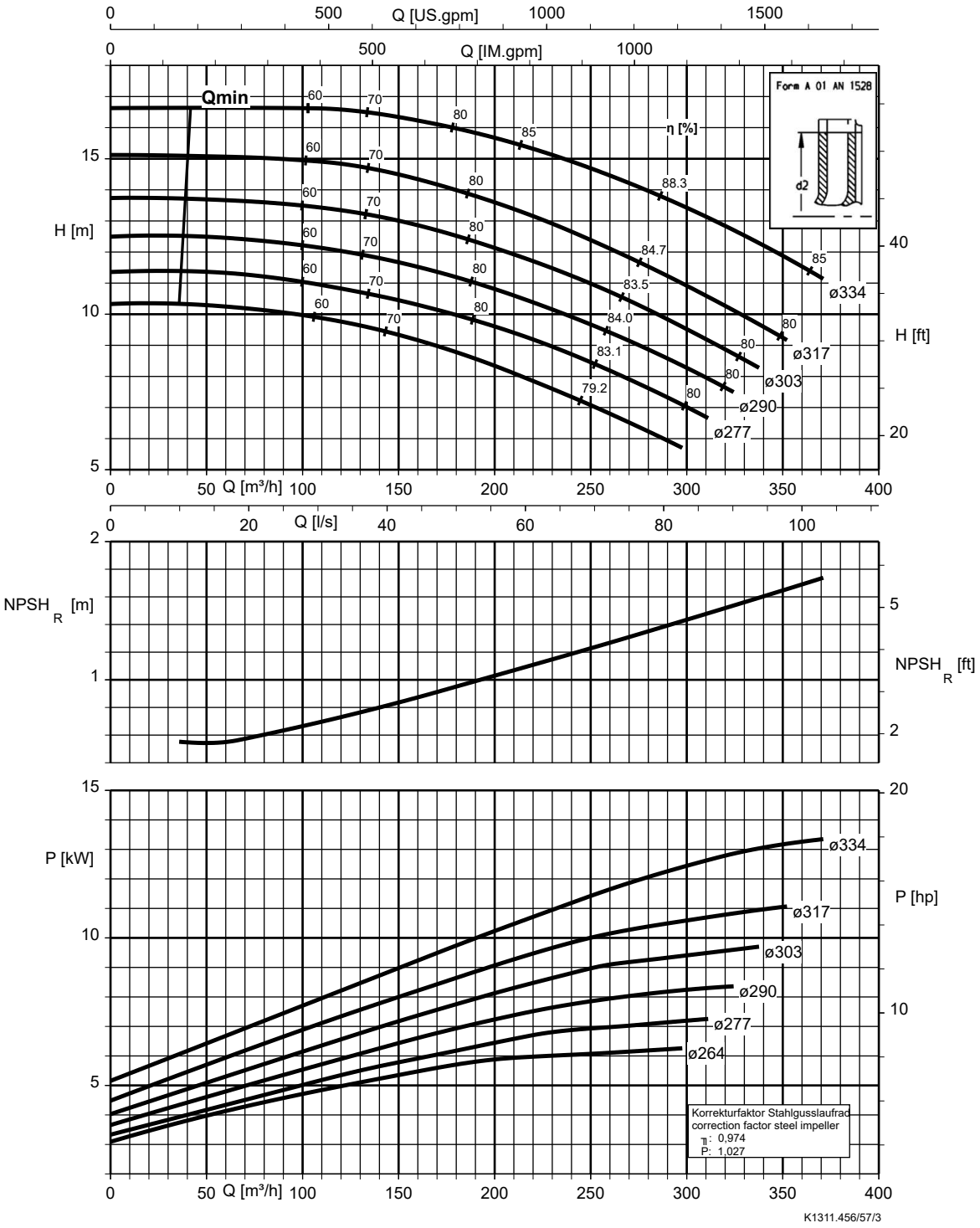
Etabloc



1311.45/12-FR

Etanorm 200-150-315, n = 960 t/min

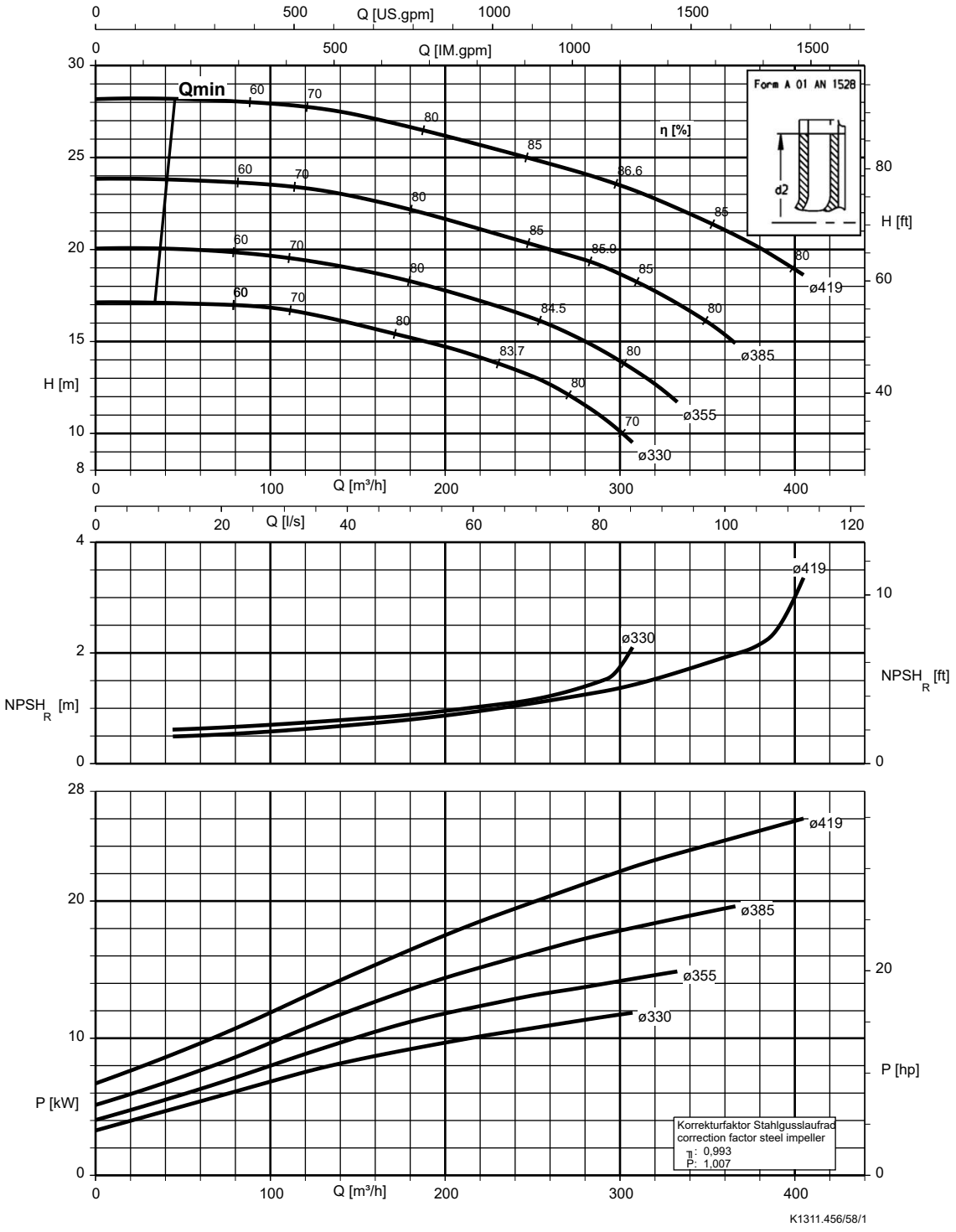
Etanorm SYT



1311.45/12-FR

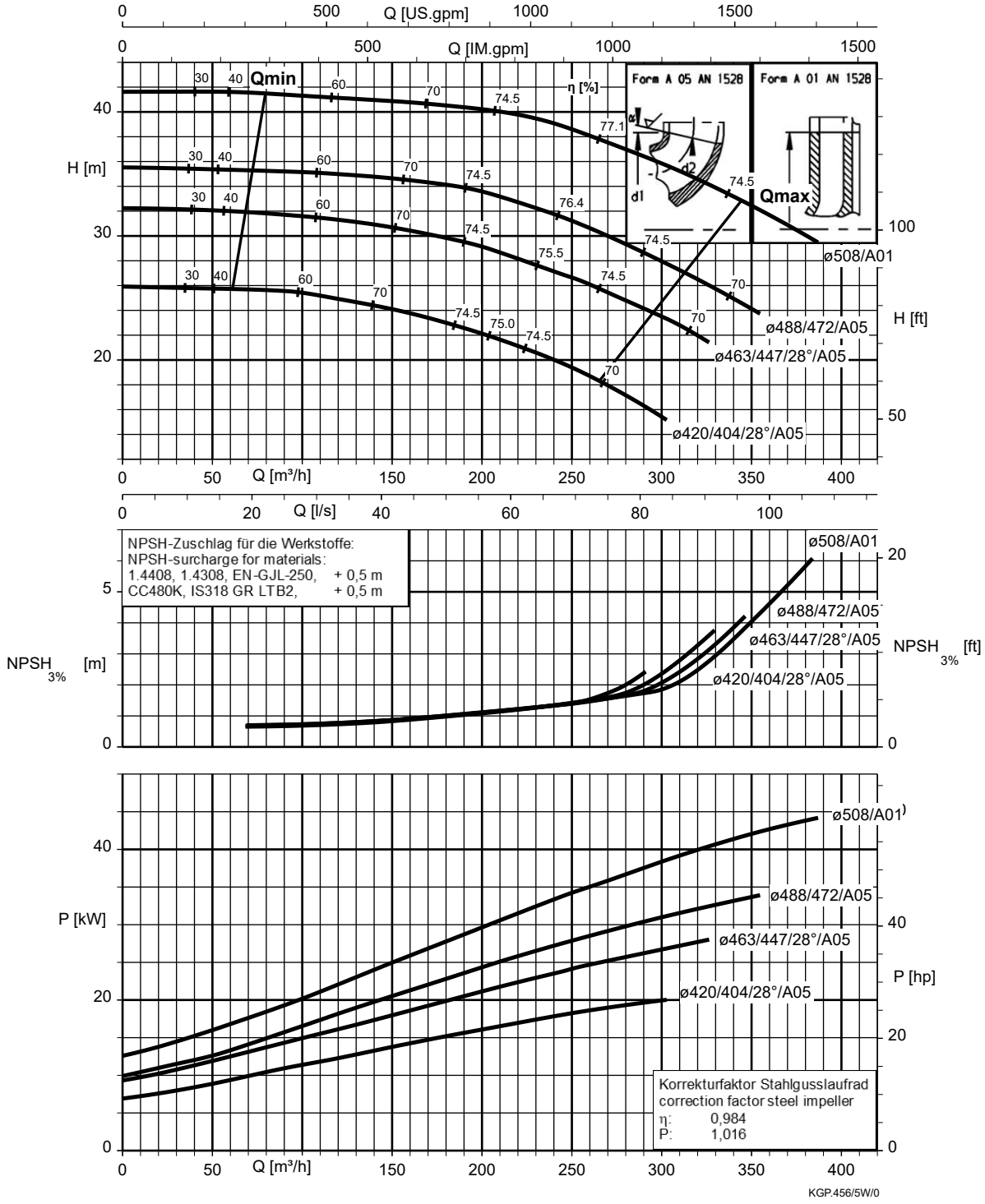
Etanorm 200-150-400, n = 960 t/min

Etanorm SYT



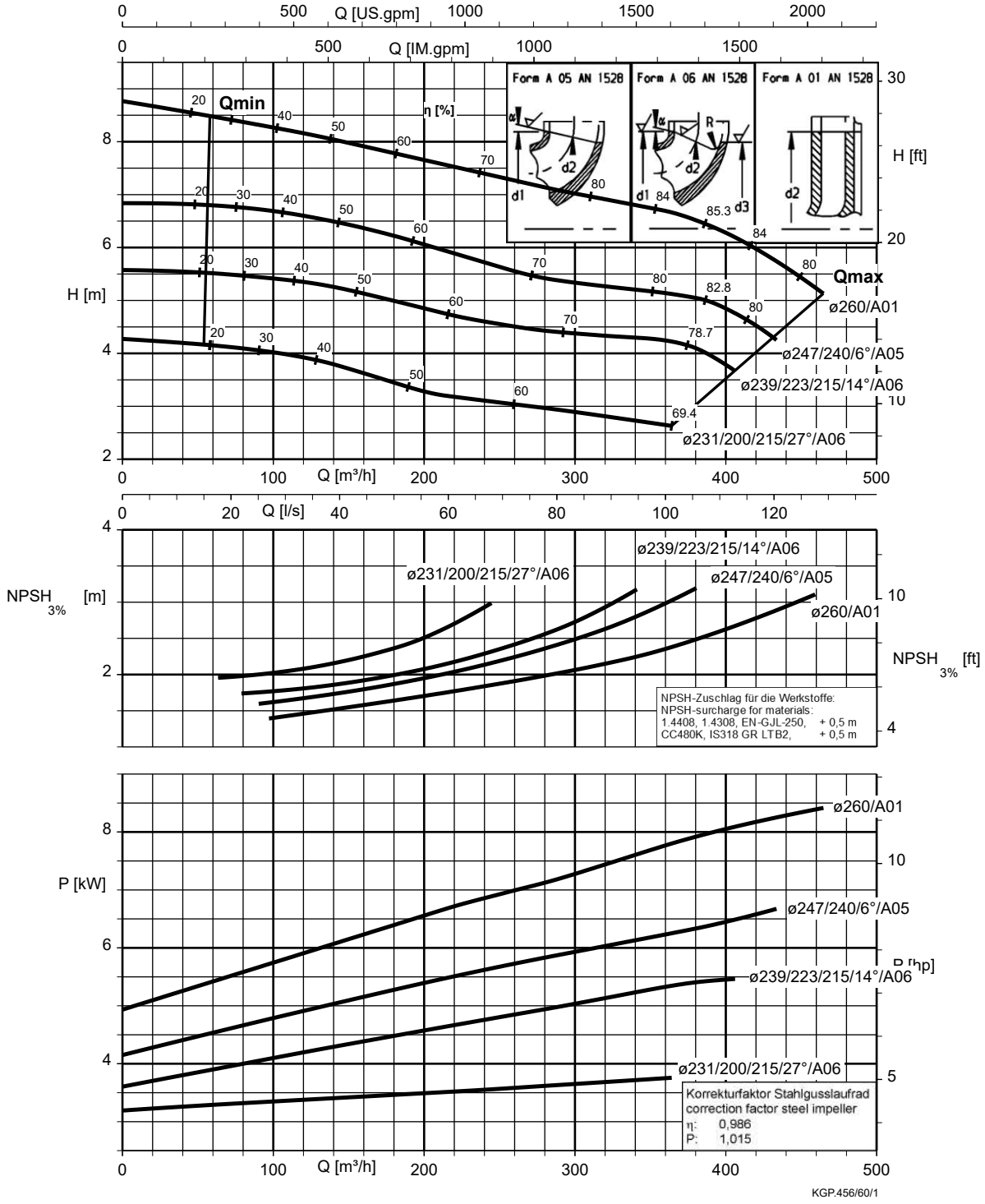
1311.45/12-FR

Etanorm 200-150-510, n = 960 t/min



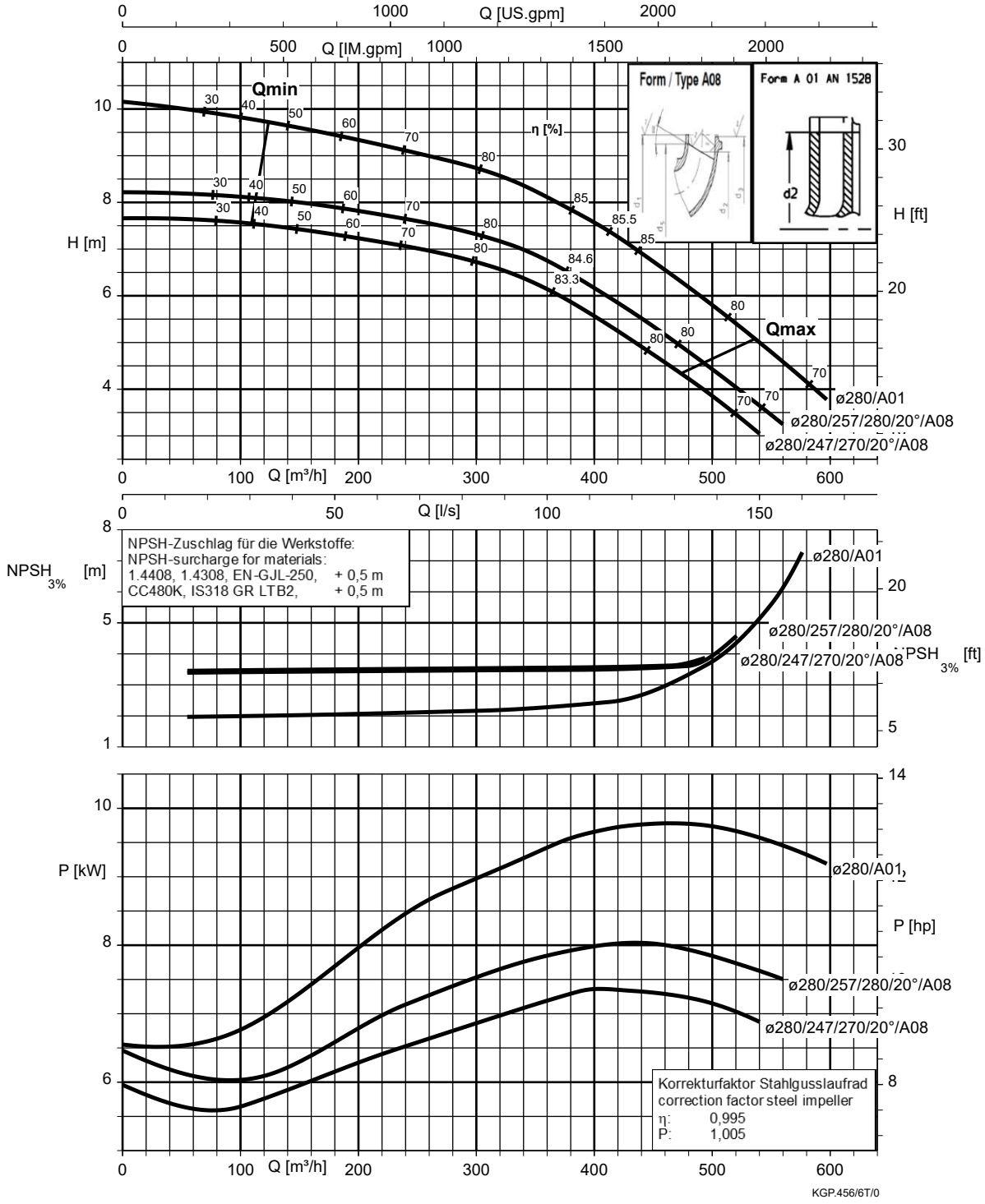
1311.45/12-FR

Etanorm 200-200-250, n = 960 t/min



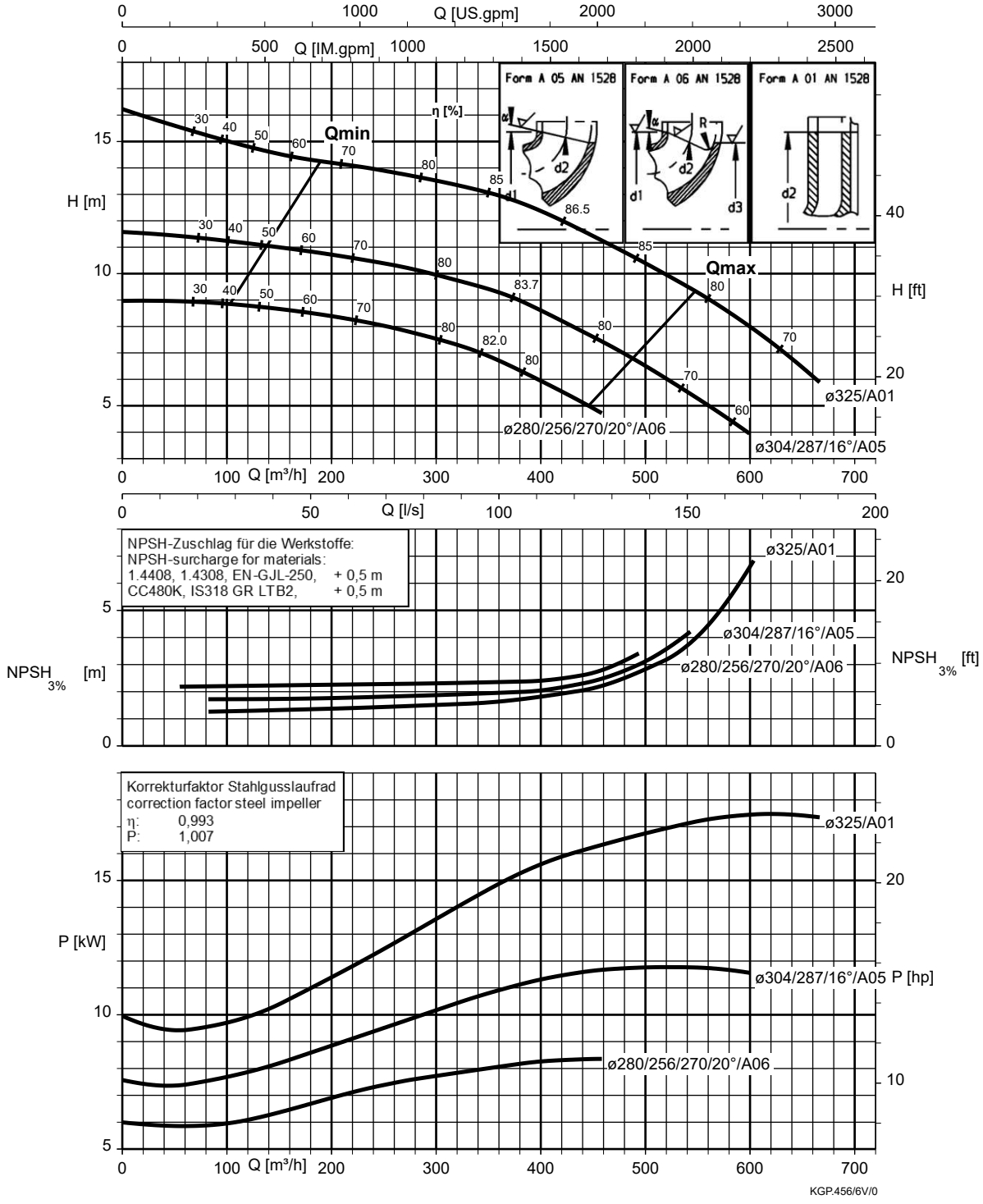
1311.45/12-FR

Etanorm 250-200-275, n = 960 t/min

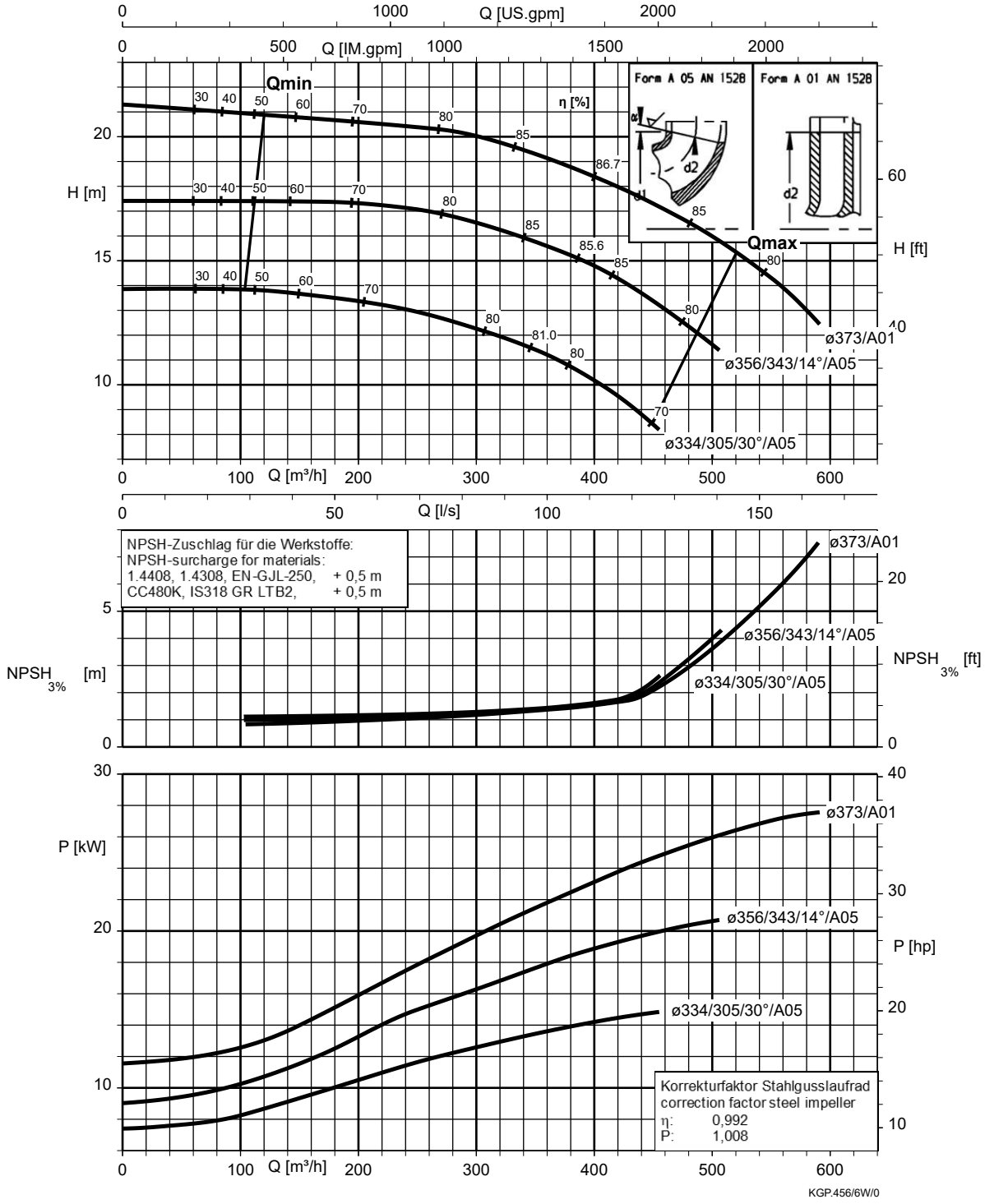


1311.45/12-FR

Etanorm 250-200-320, n = 960 t/min

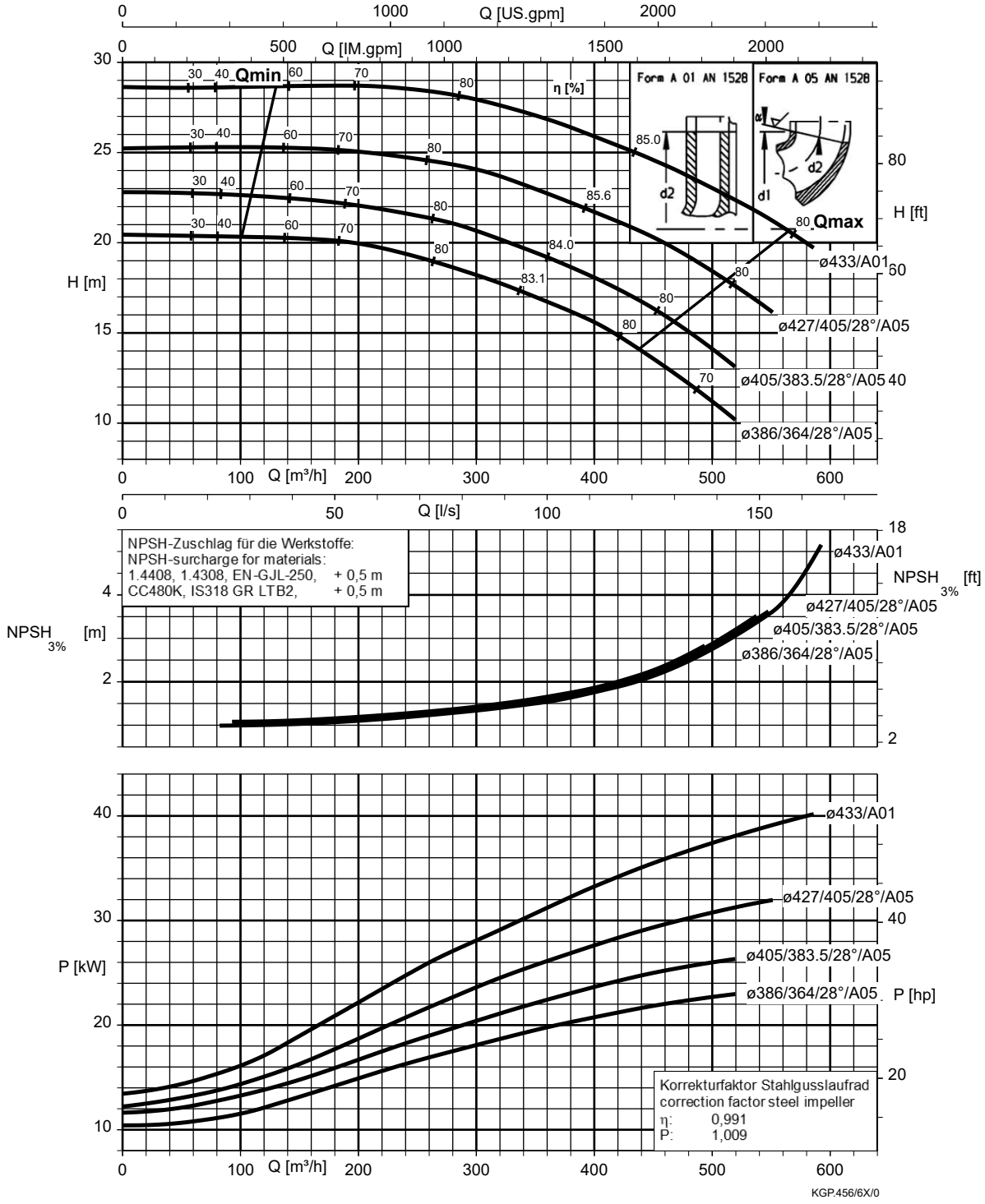


Etanorm 250-200-375, n = 960 t/min

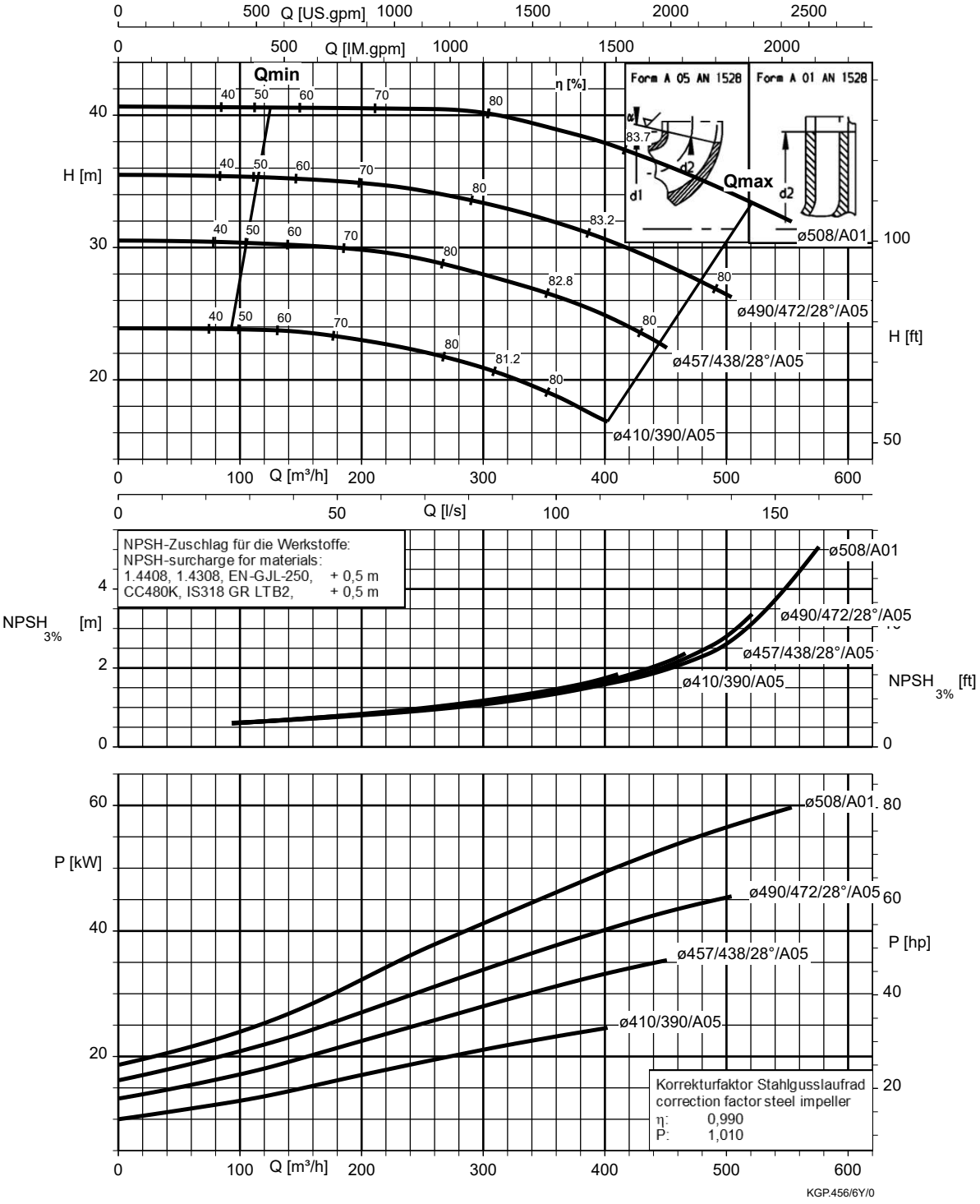


1311.45/12-FR

Etanorm 250-200-435 , n = 960 t/min

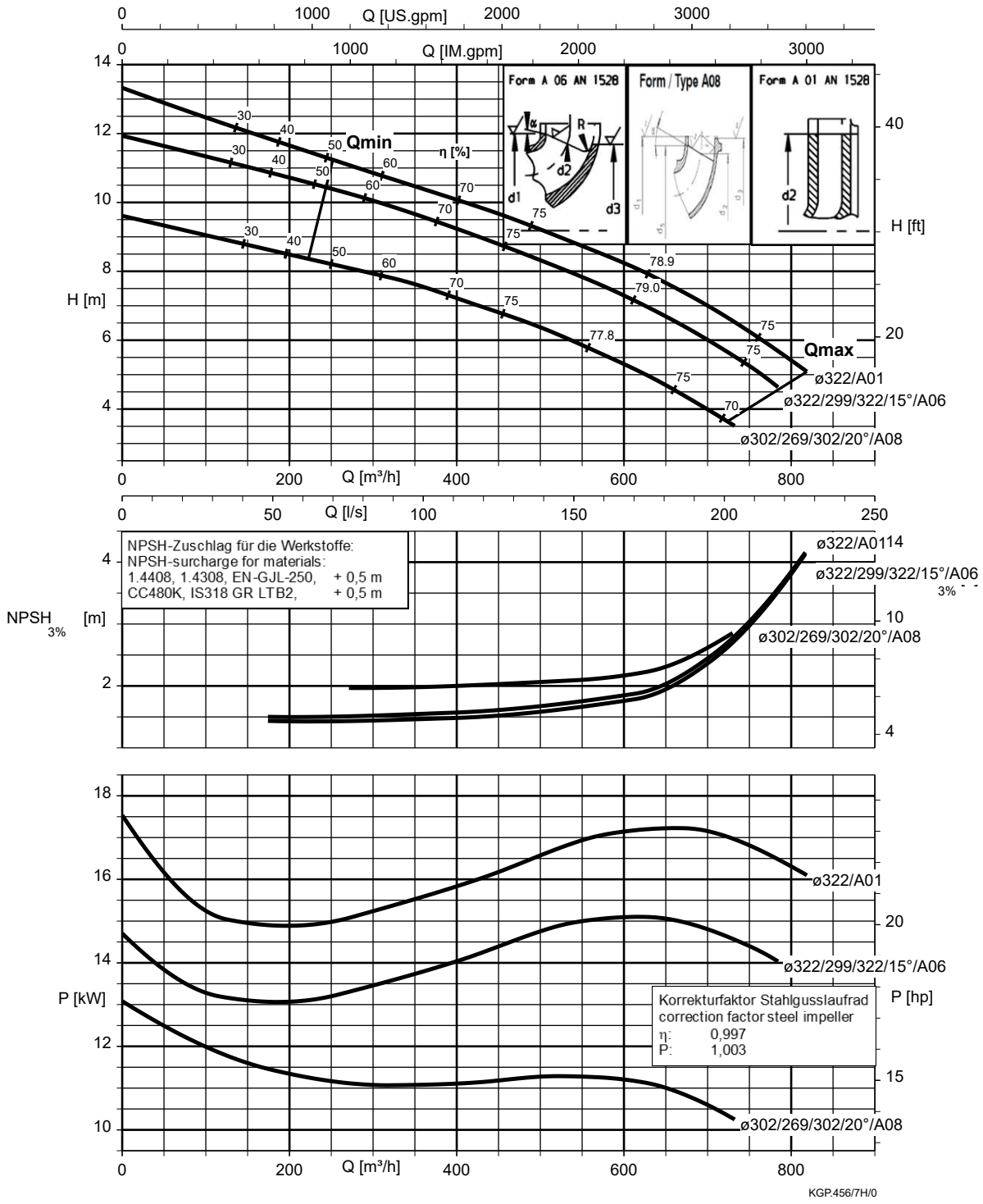


Etanorm 250-200-510 , n = 960 t/min

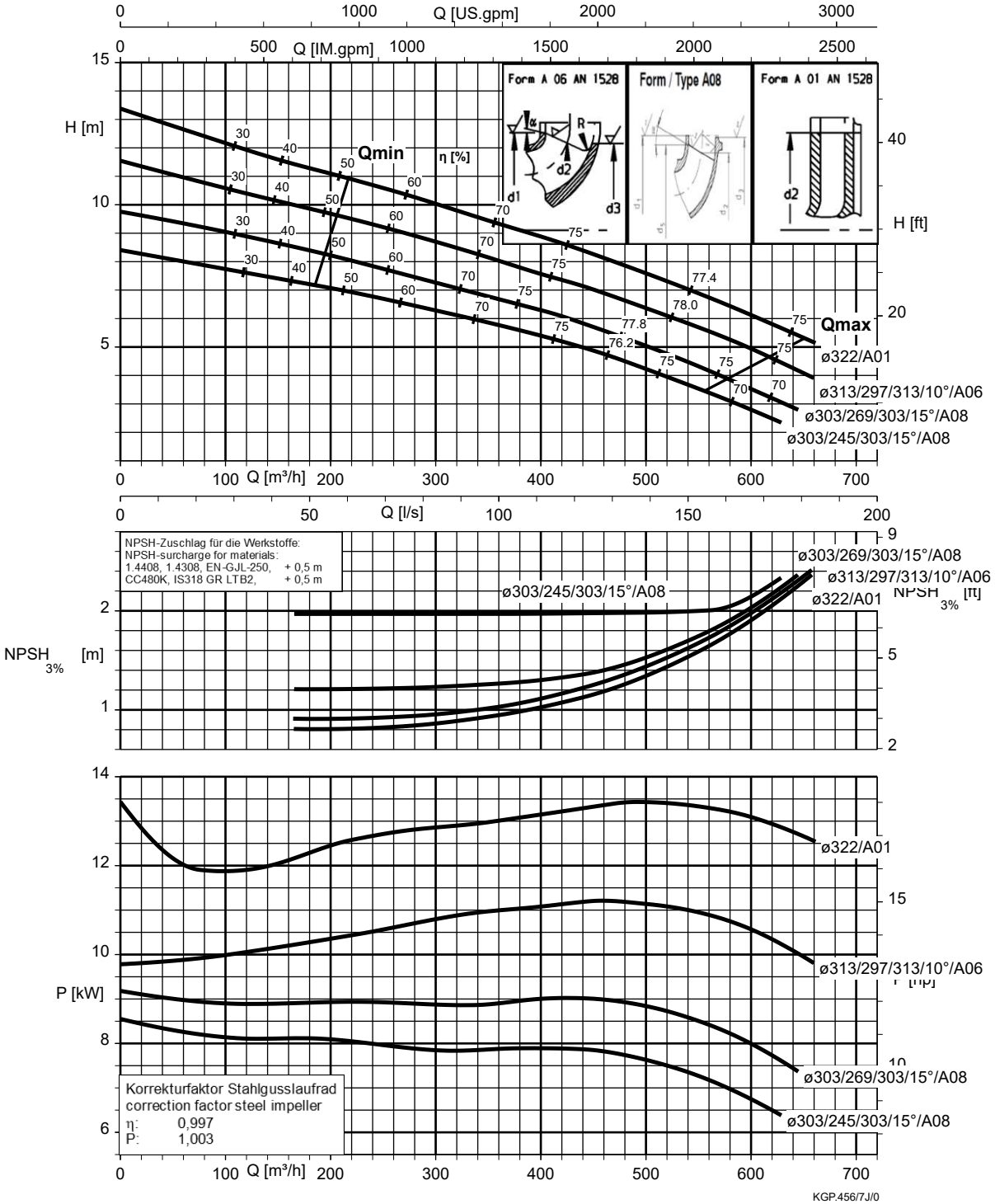


1311.45/12-FR

Etanorm 300-250-295, n = 960 t/min

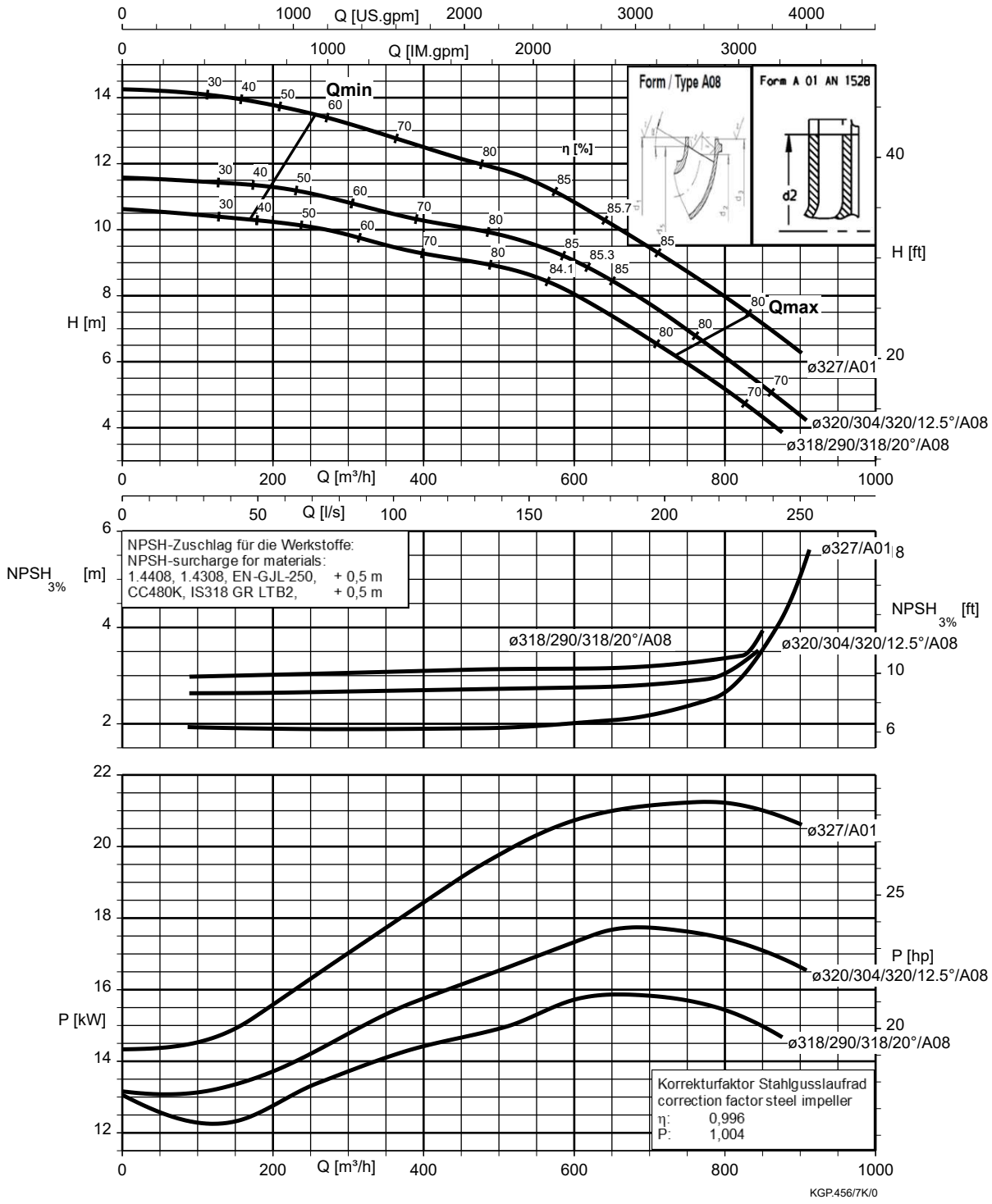


Etanorm 300-250-295.1 , n = 960 t/min

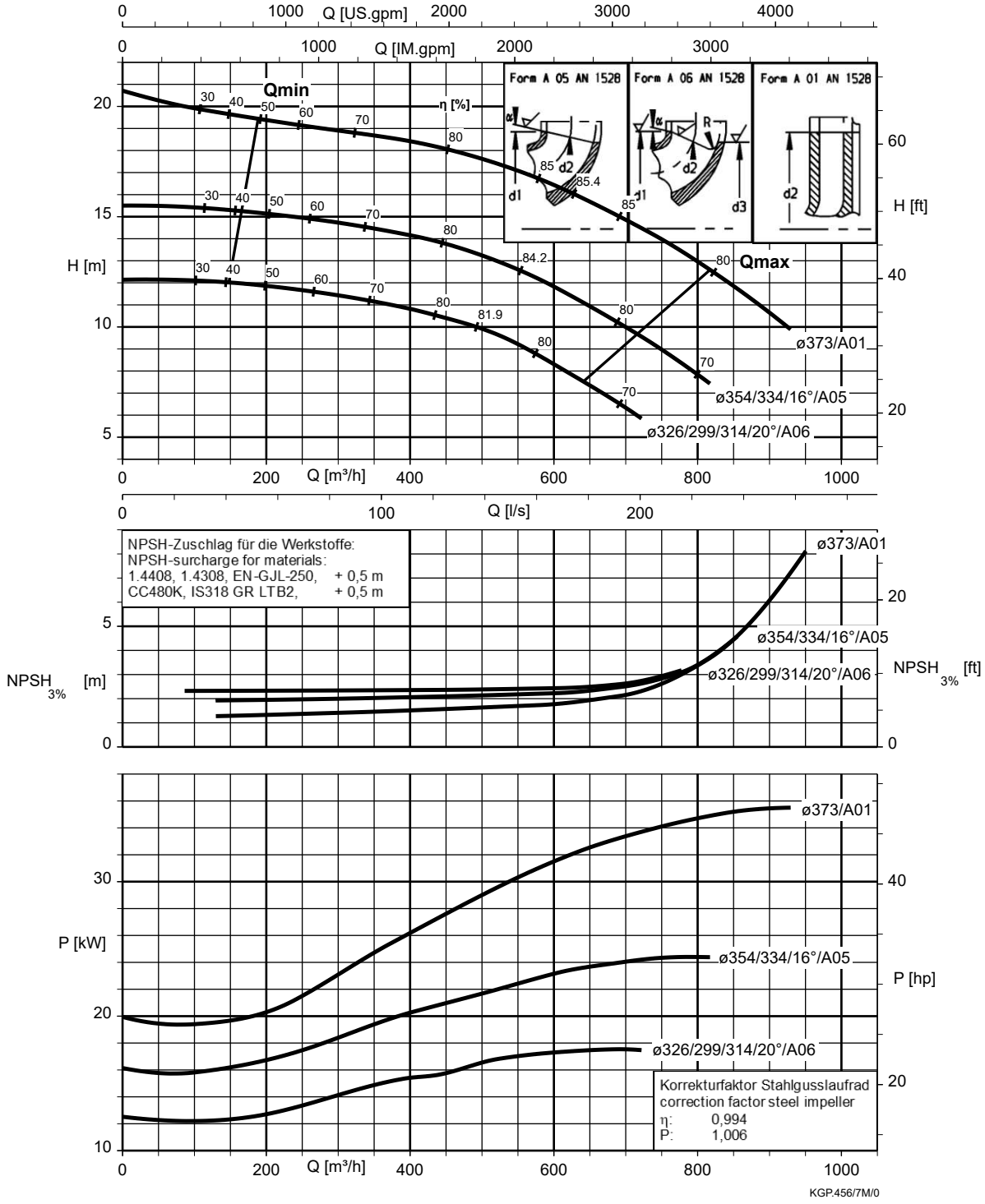


1311.45/12-FR

Etanorm 300-250-320 , n = 960 t/min

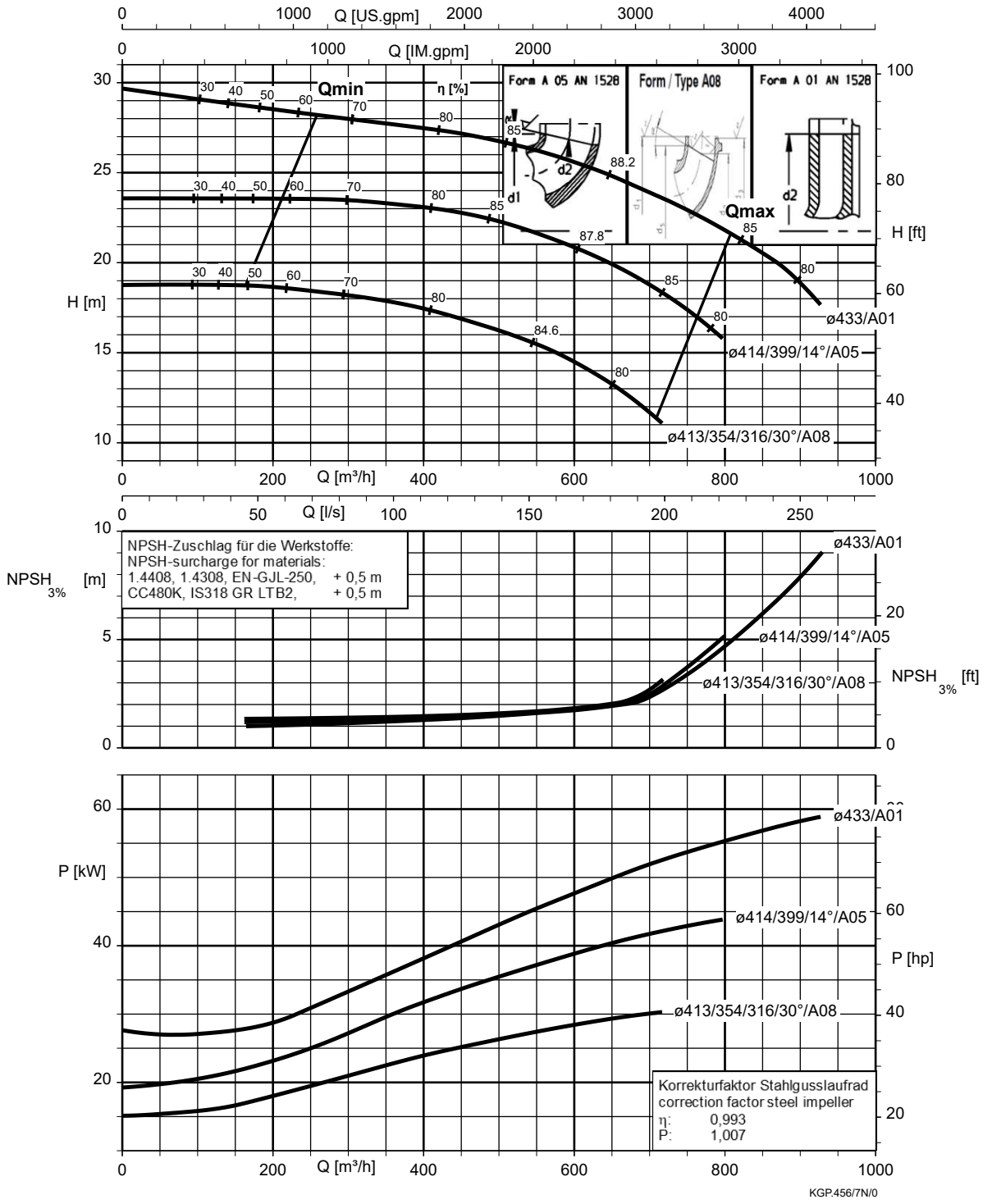


Etanorm 300-250-375, n = 960 t/min

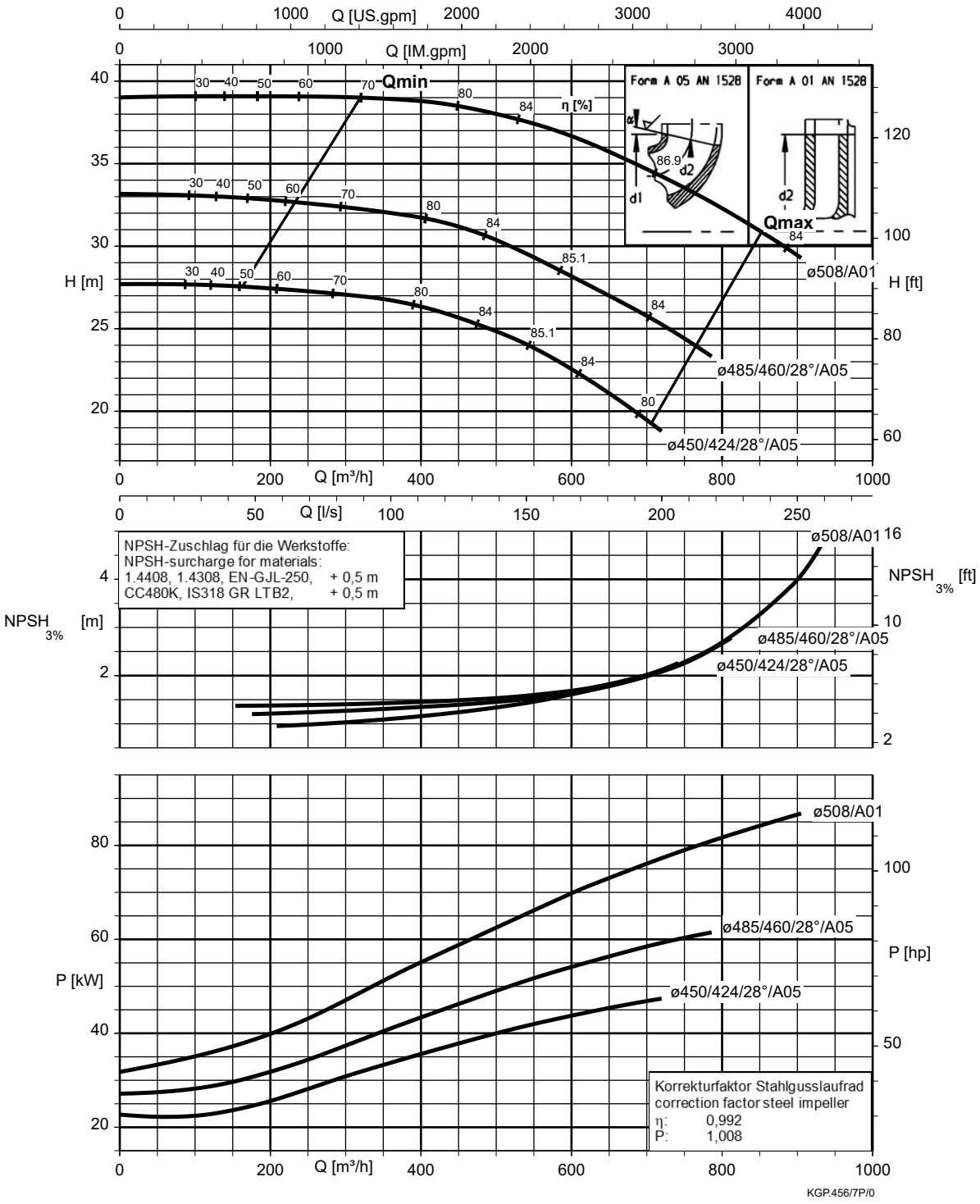


1311.45/12-FR

Etanorm 300-250-435, n = 960 t/min

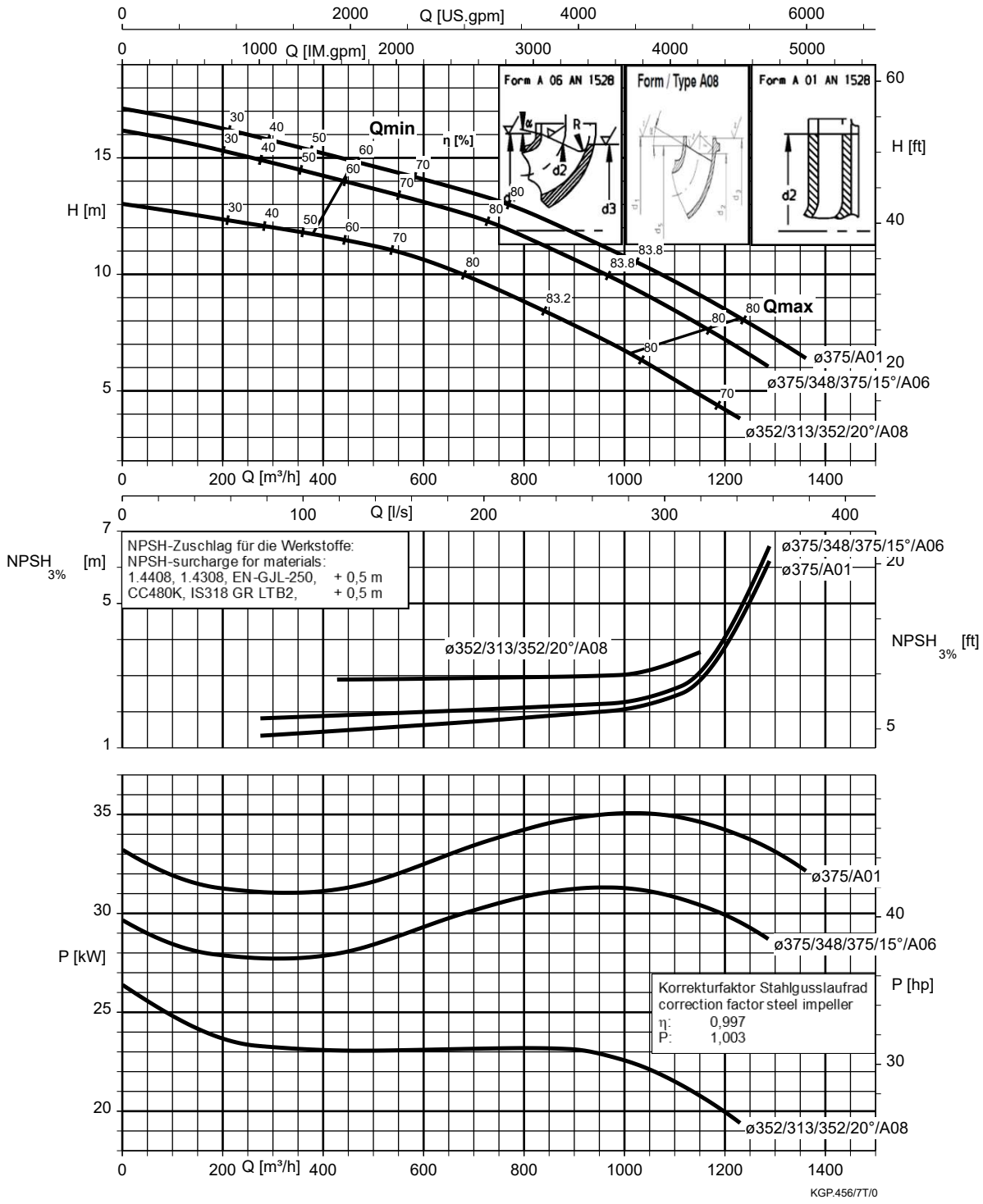


Etanorm 300-250-510, n = 960 t/min

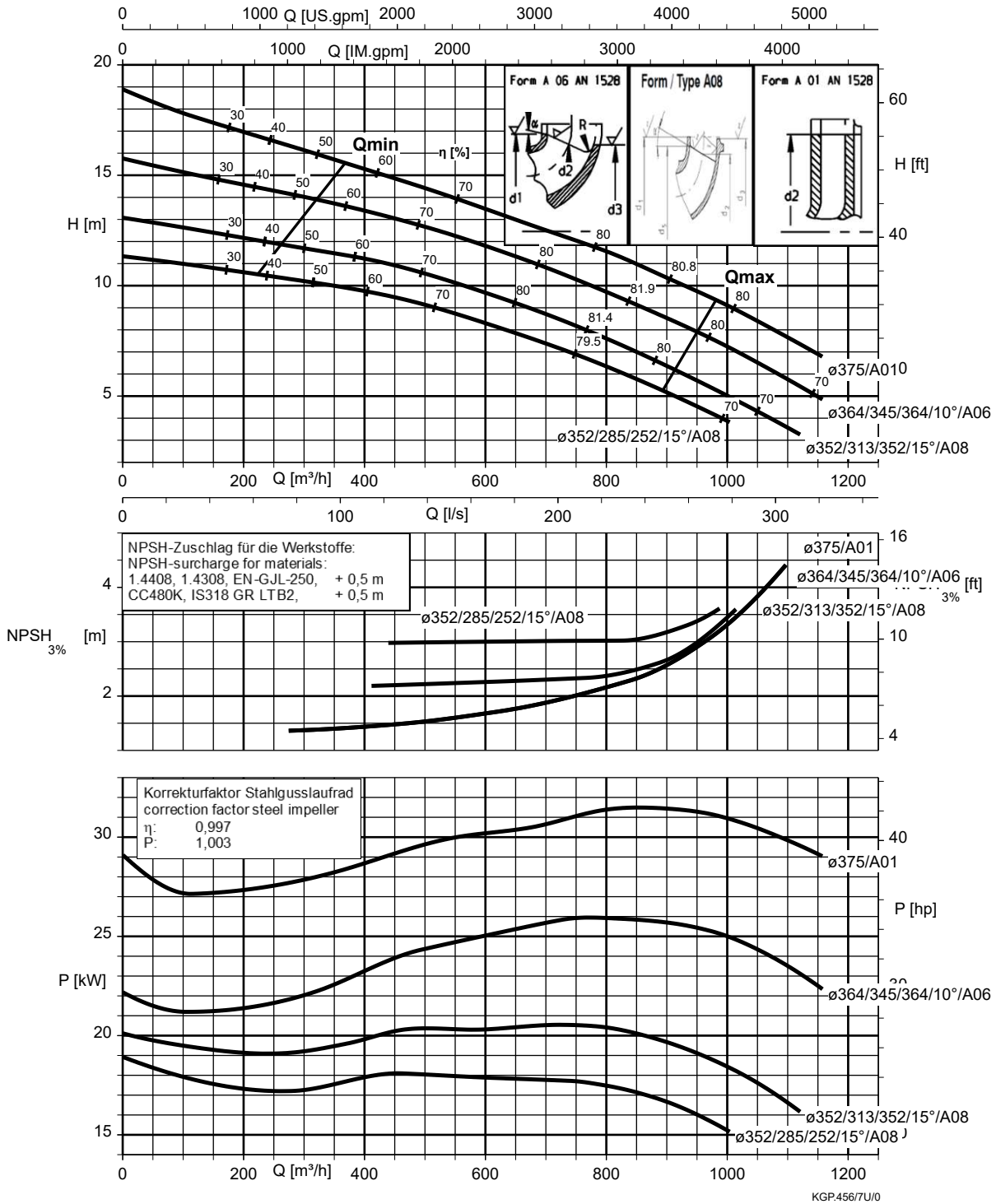


1311.45/12-FR

Etanorm 350-300-350, n = 960 t/min

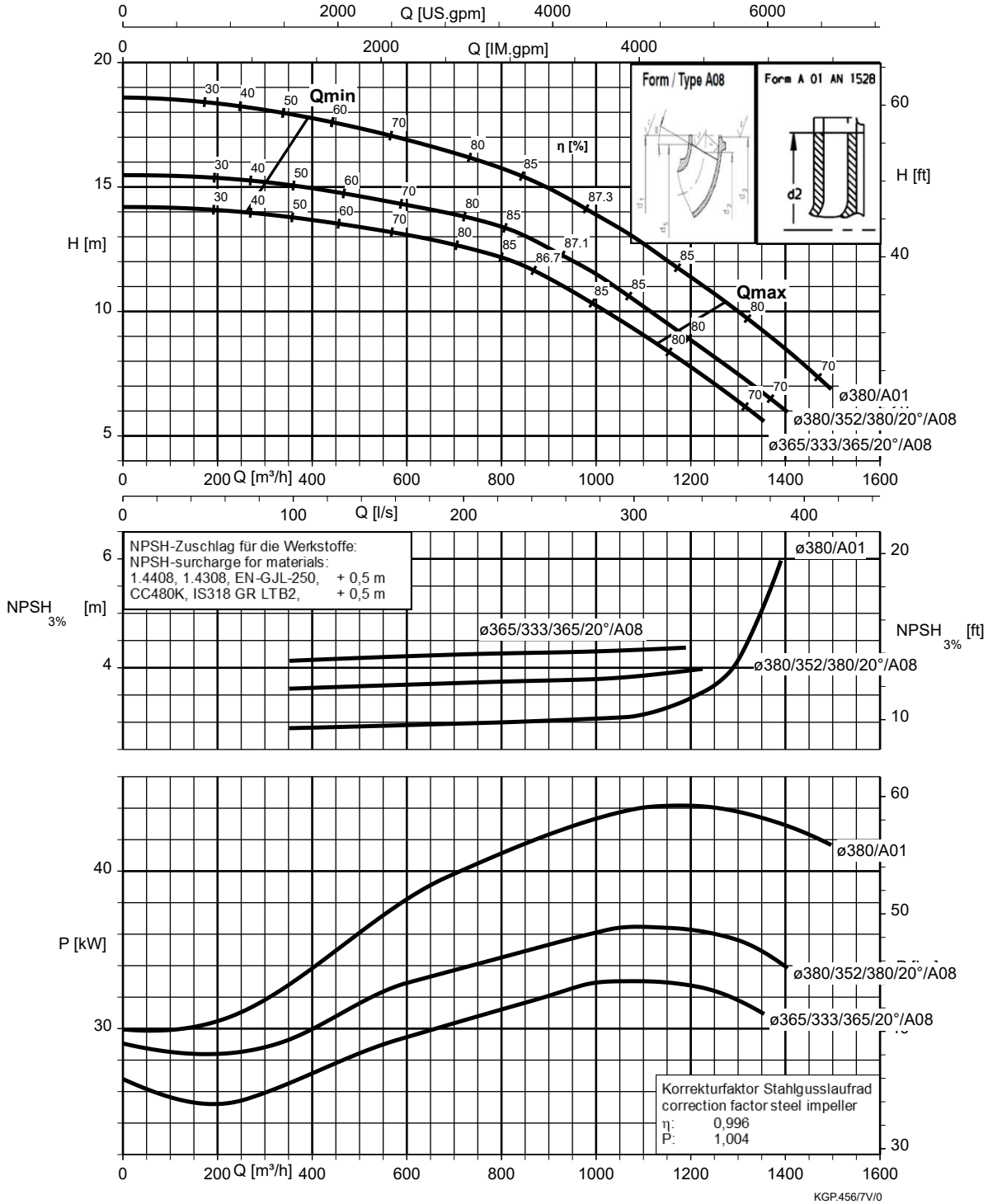


Etanorm 350-300-350.1 , n = 960 t/min

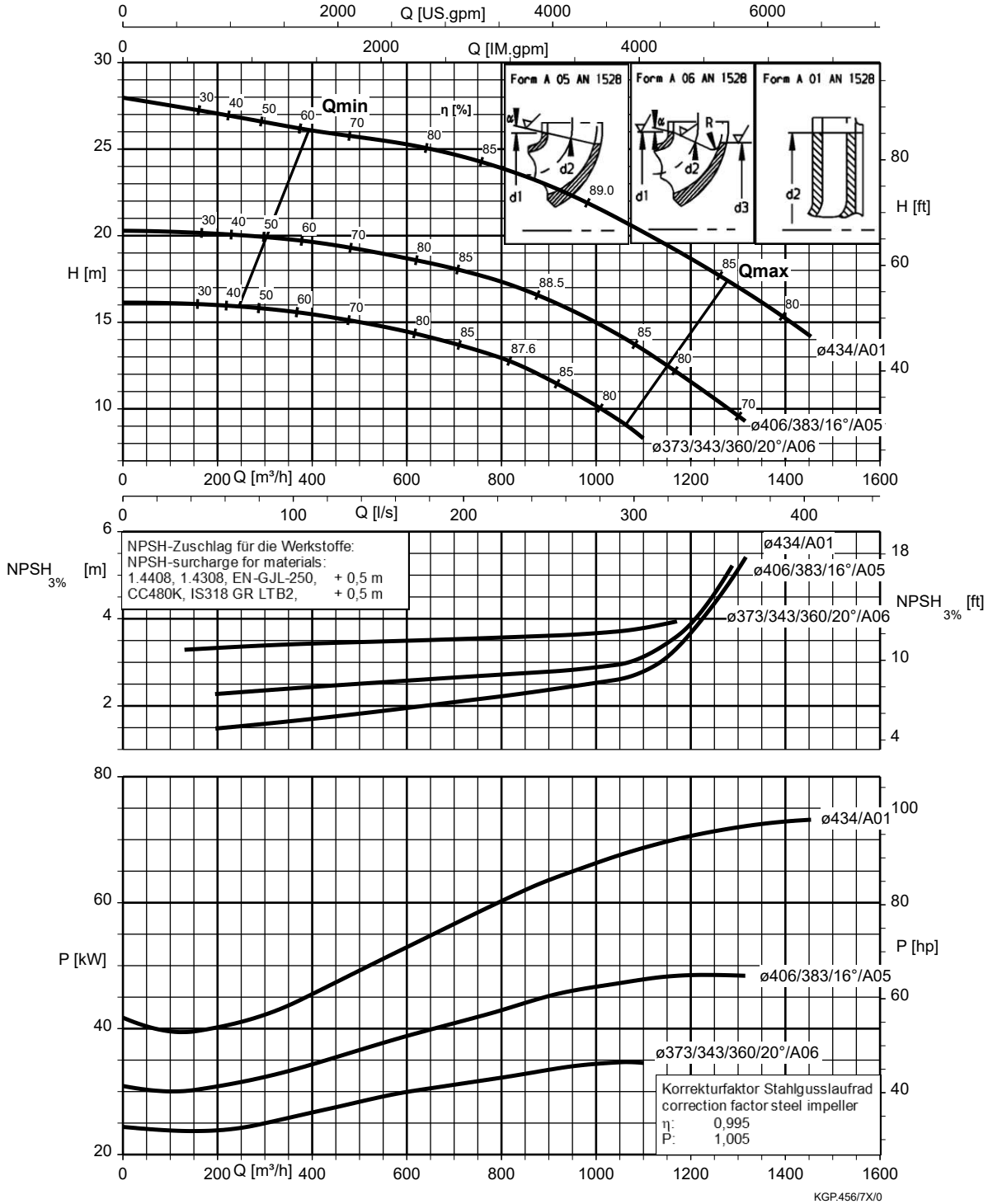


1311.45/12-FR

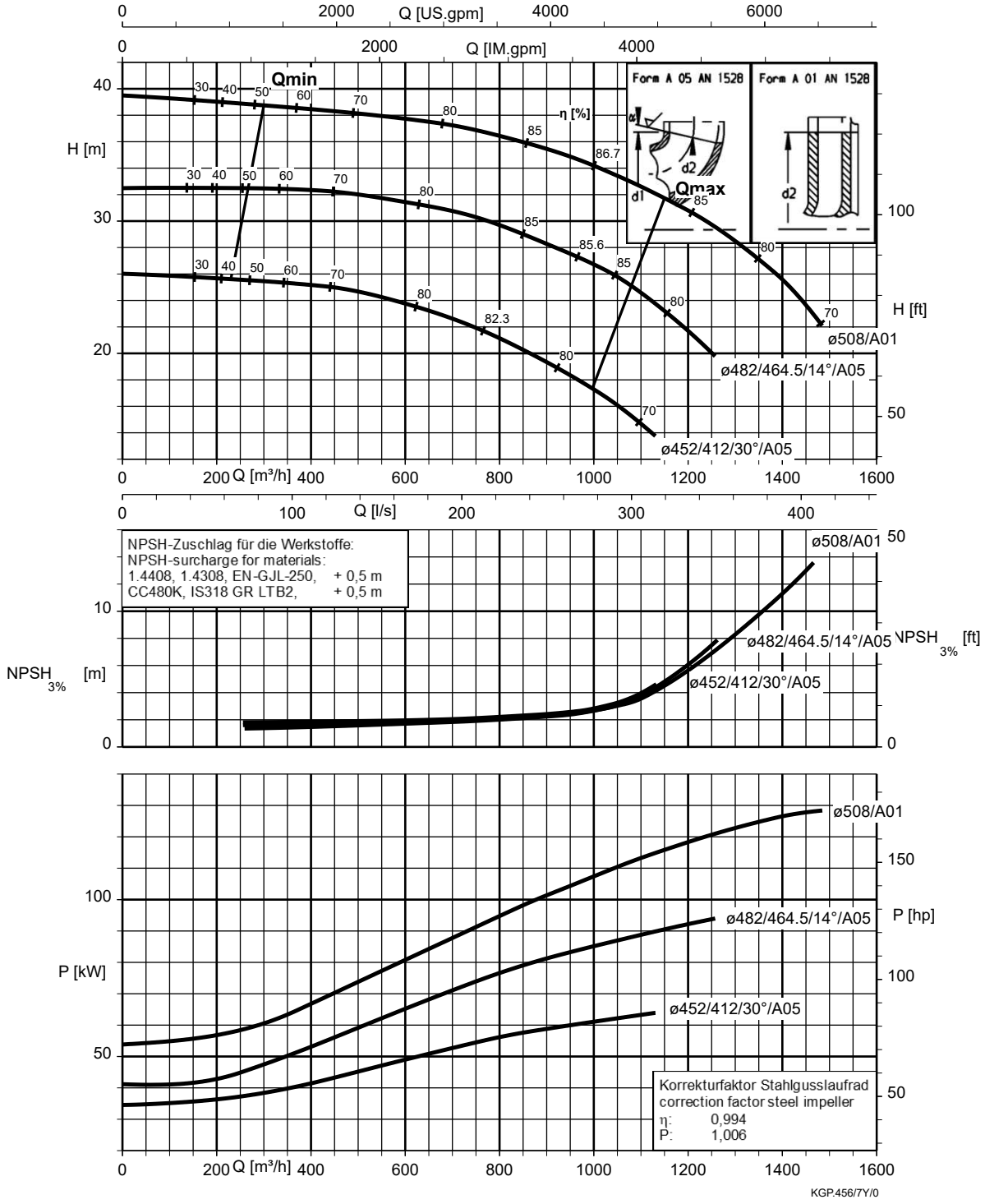
Etanorm 350-300-375, n = 960 t/min



Etanorm 350-300-435 , n = 960 t/min



Etanorm 350-300-510 , n = 960 t/min



Etanorm-R 125-500.2, n = 960 t/min

Etanorm-RSY

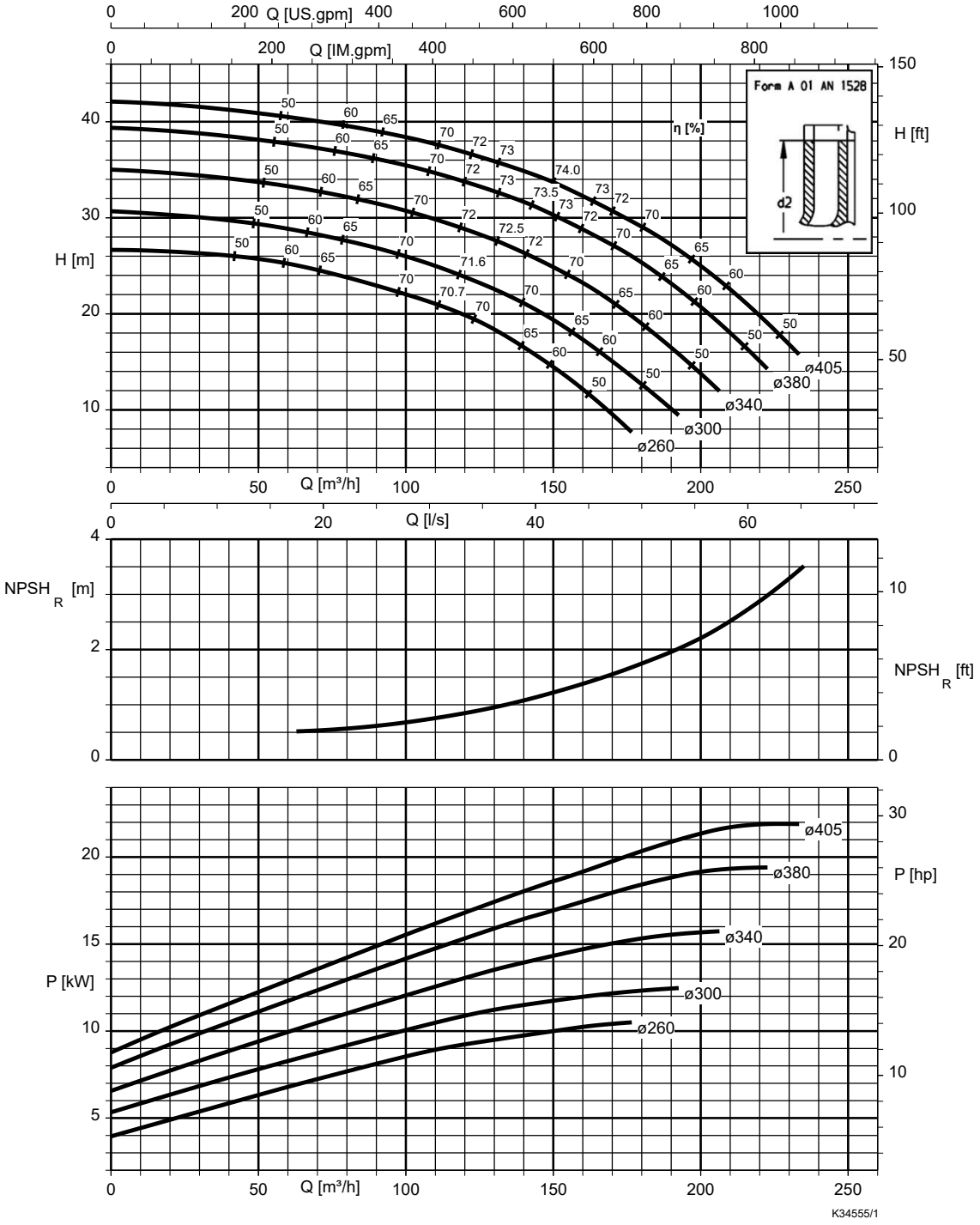


Tableau 15: Valeurs de correction

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	

1311.45/12-FR

Etanorm-R 150-500.1, n = 960 t/min

Etanorm-RSY

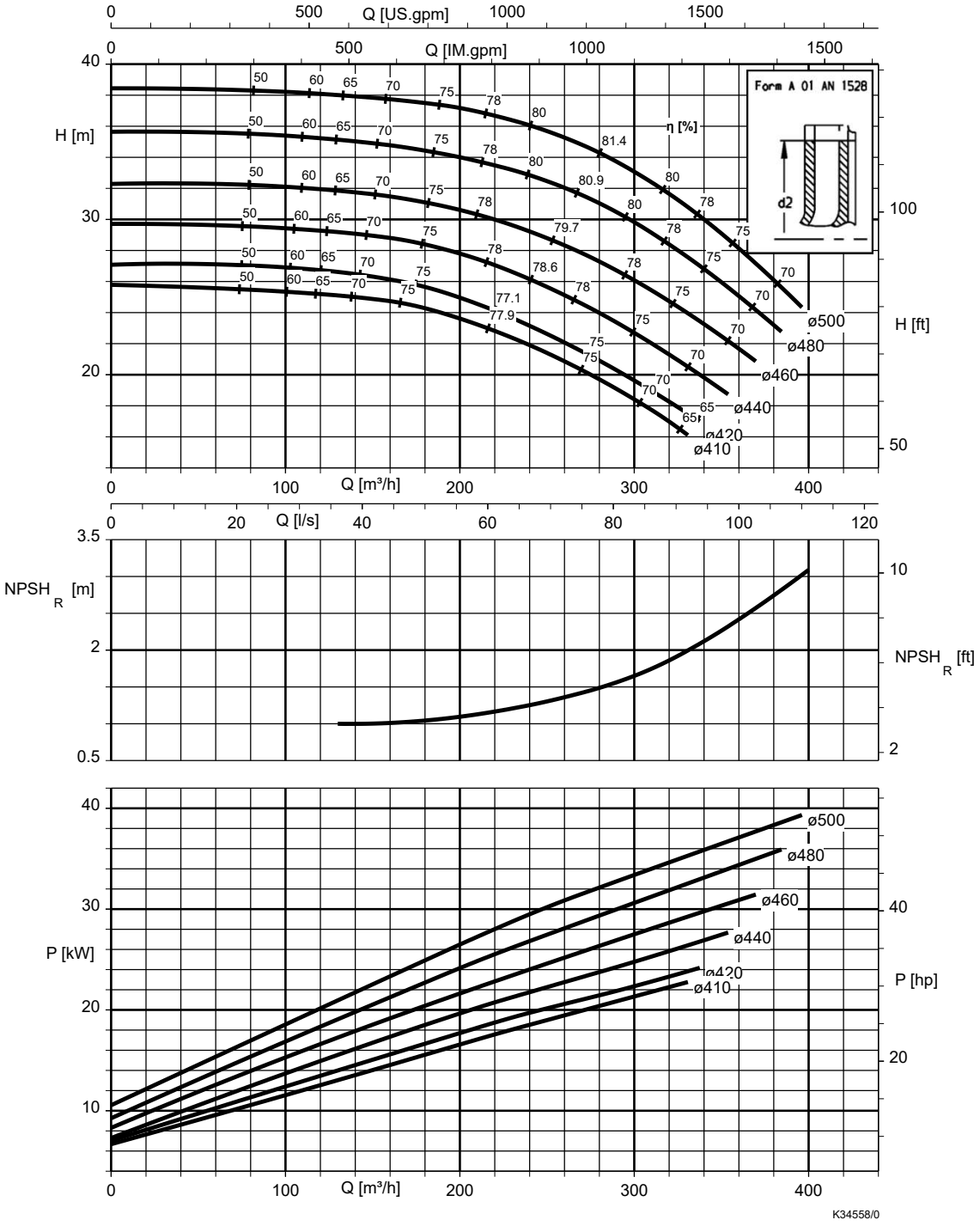


Tableau 16: Valeurs de correction

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	

Etanorm-R 200-250, n = 960 t/min

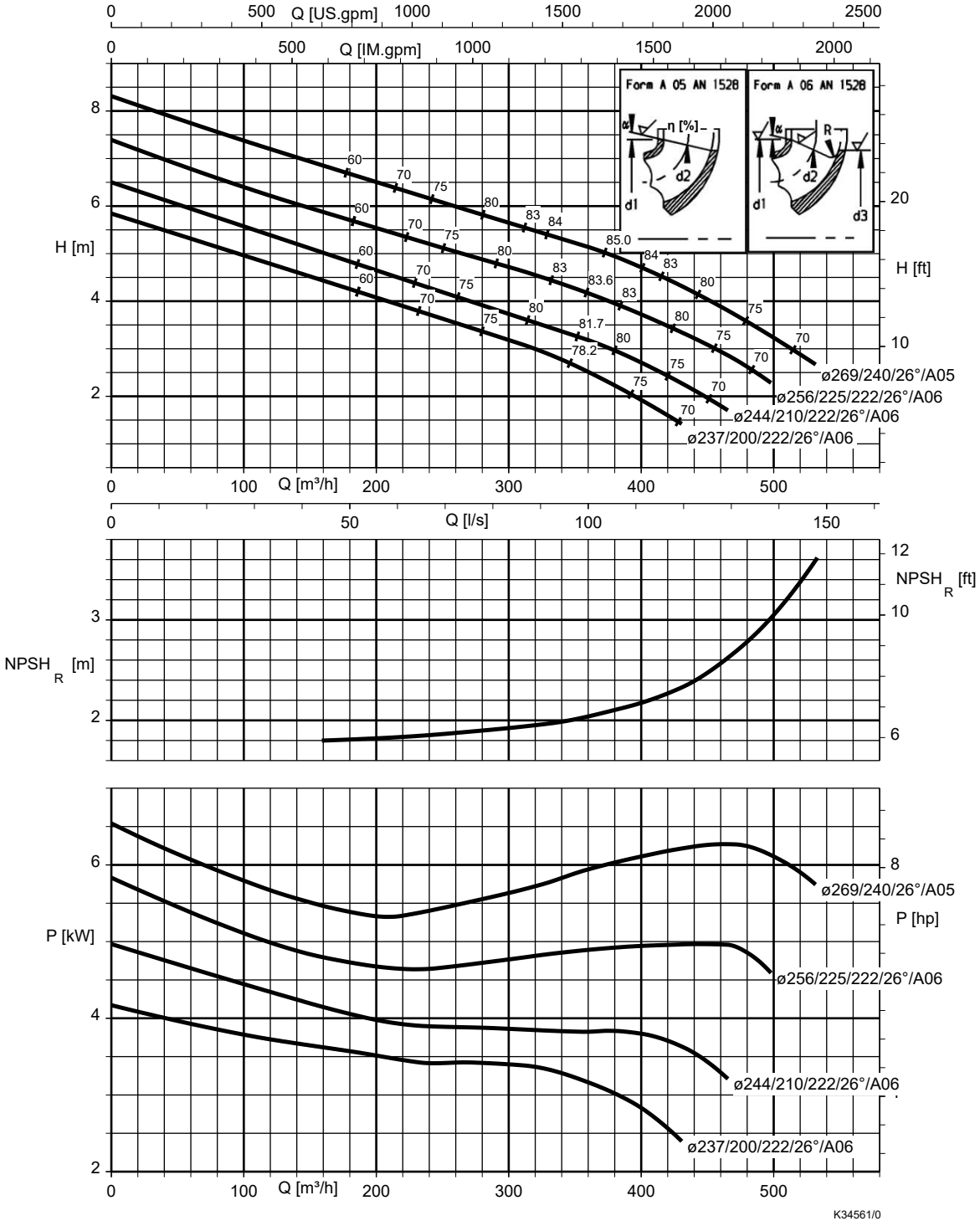


Tableau 17: Valeurs de correction

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	

1311.45/12-FR

Etanorm-R 200-260, n = 960 t/min

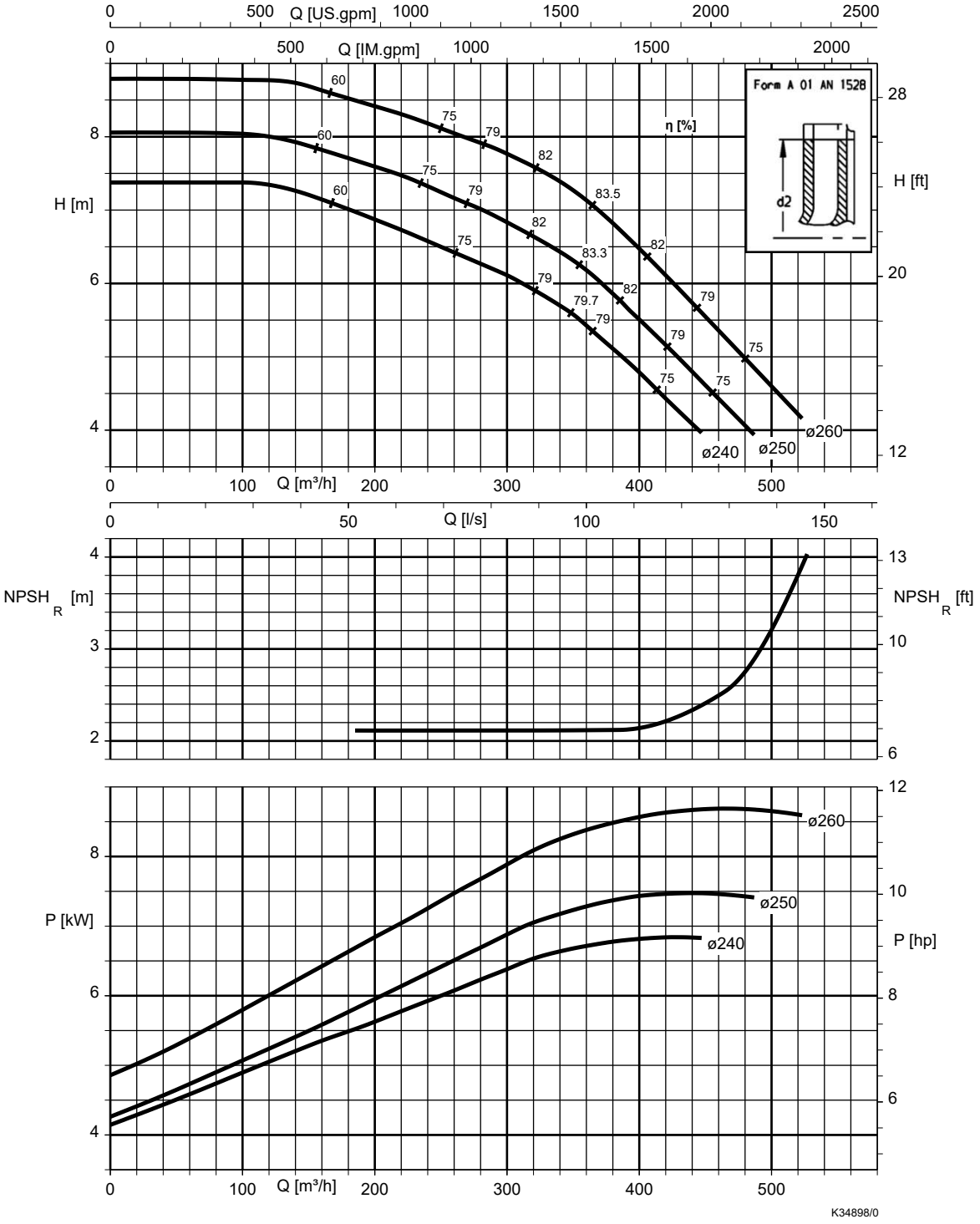


Tableau 18: Valeurs de correction

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 200-330, n = 960 t/min

Etanorm-RSY

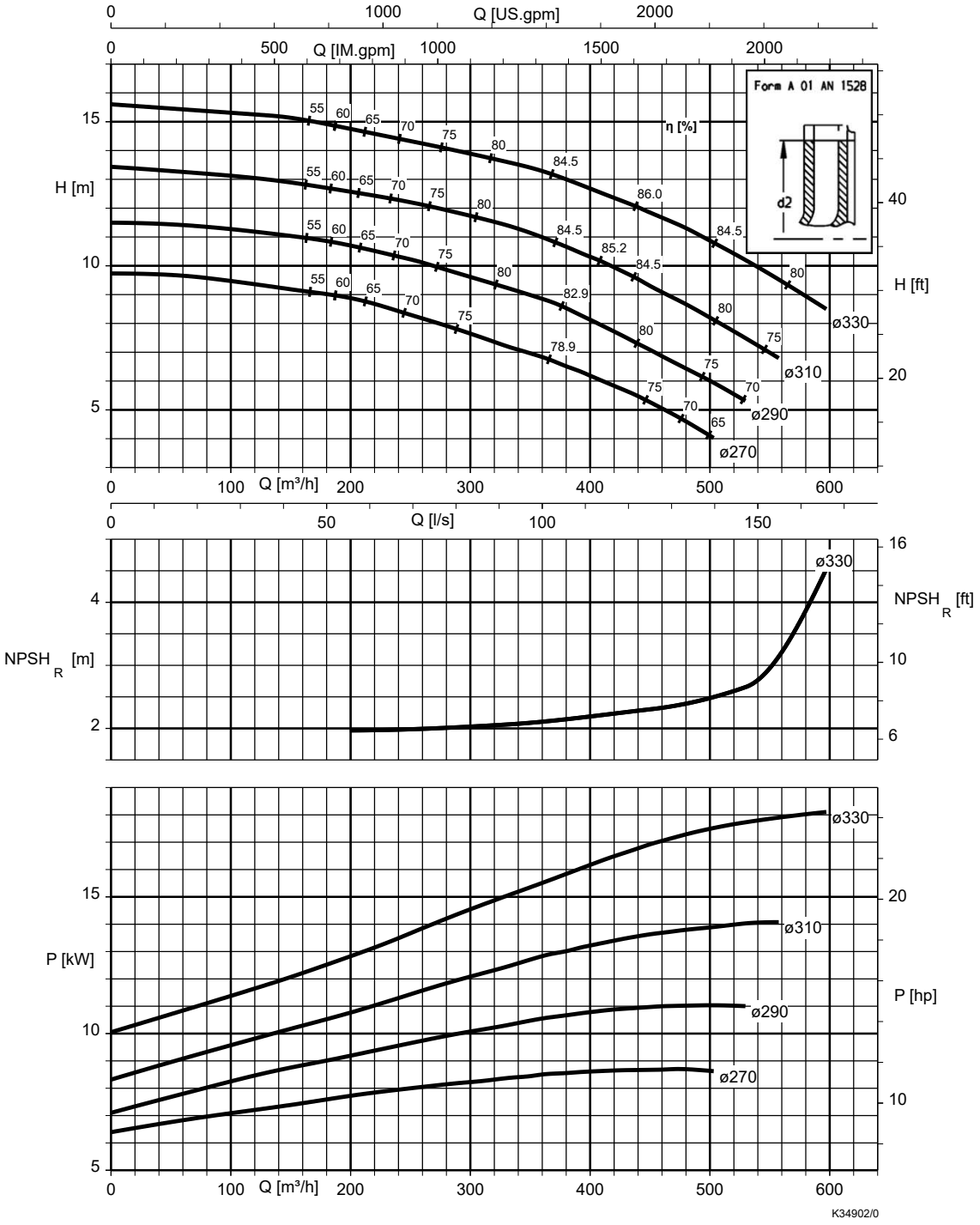


Tableau 19: Valeurs de correction

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

1311.45/12-FR

Etanorm-R 200-400, n = 960 t/min

Etanorm-RSY

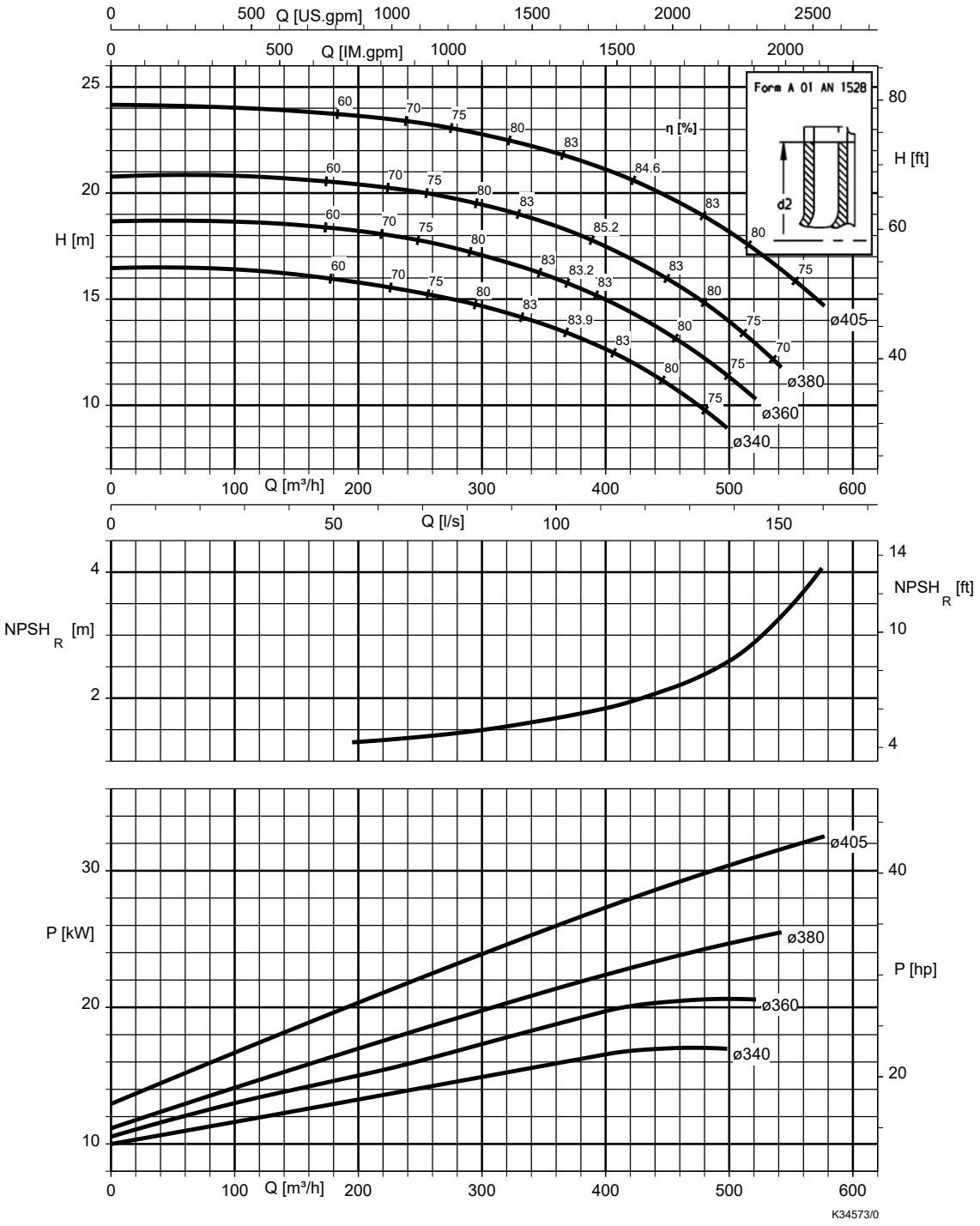


Tableau 20: Valeurs de correction

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

1311.45/12-FR

Etanorm-R 200-500, n = 960 t/min

Etanorm-RSY

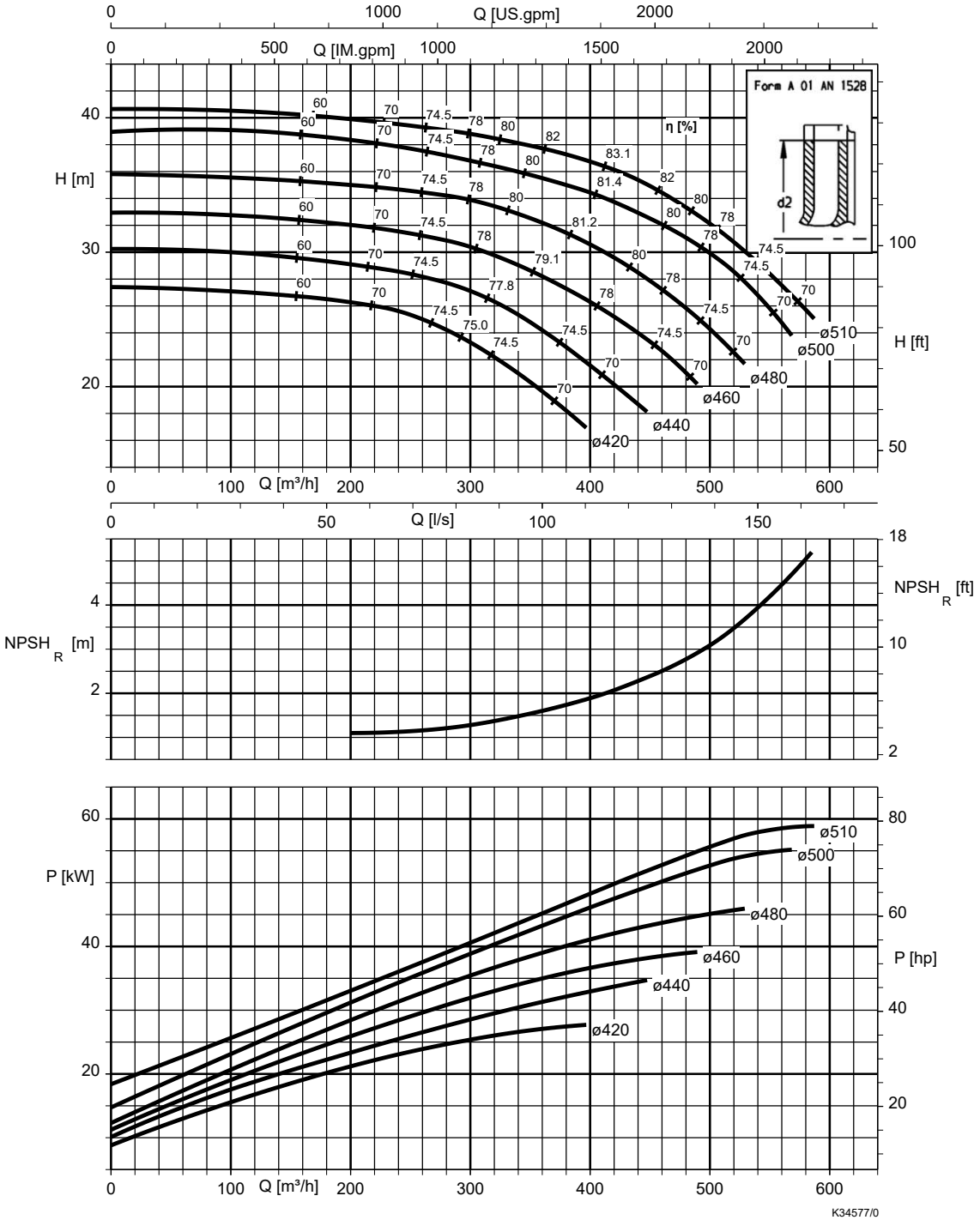


Tableau 21: Valeurs de correction

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

1311.45/12-FR

Etanorm-R 250-300, n = 960 t/min

Etanorm-RSY

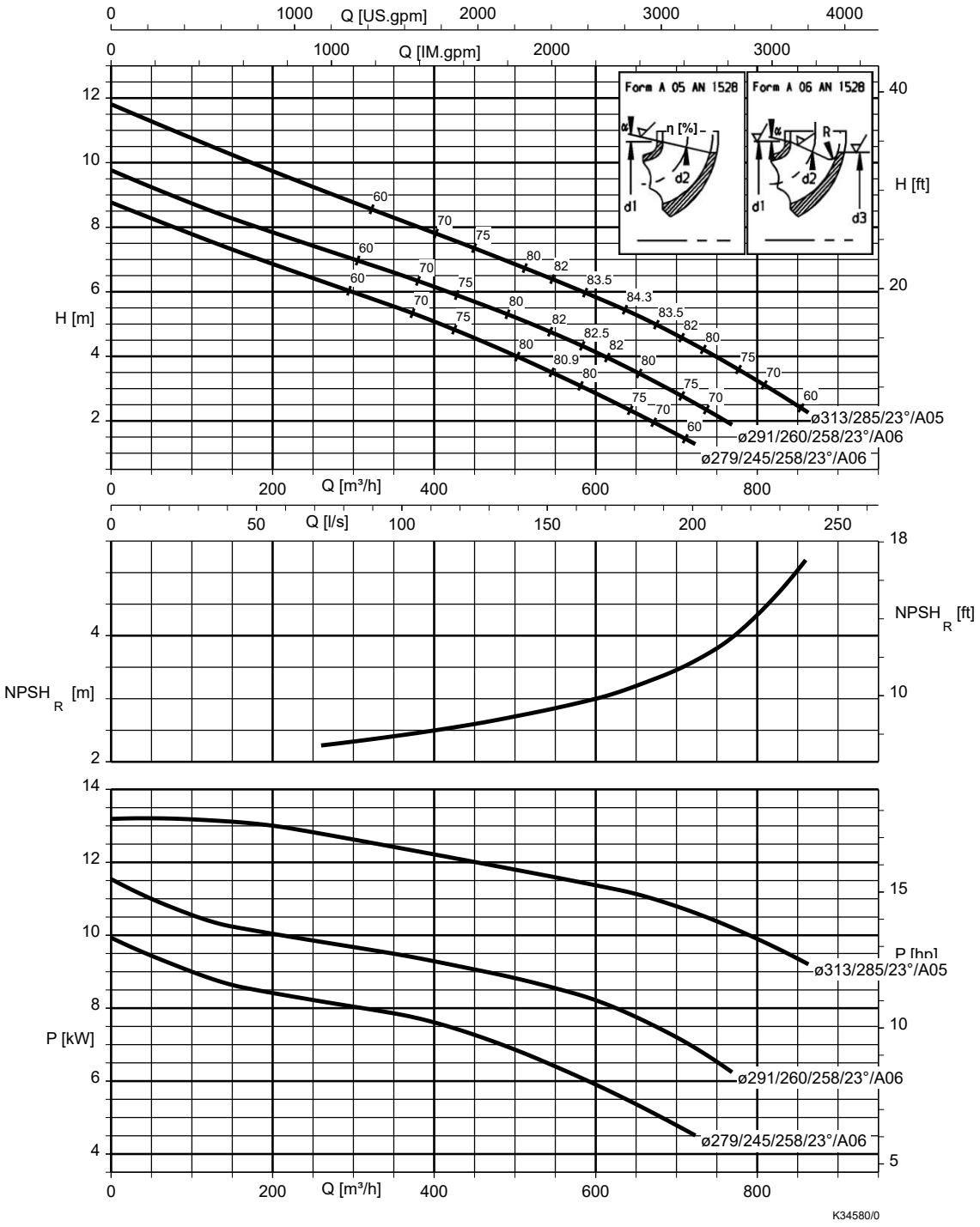


Tableau 22: Valeurs de correction

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	

1311.45/12-FR

Etanorm-R 250-330, n = 960 t/min

Etanorm-RSY

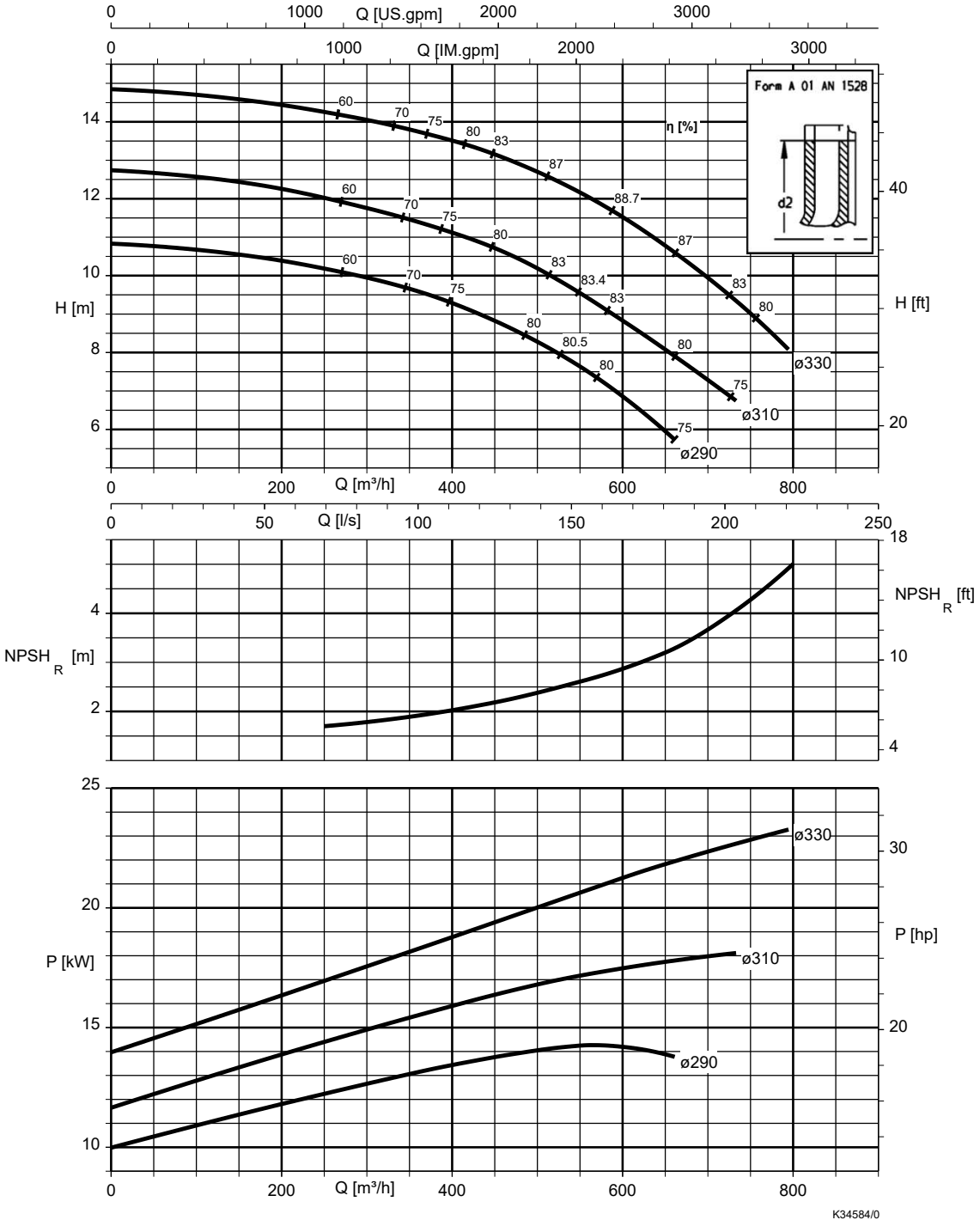


Tableau 23: Valeurs de correction

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	

1311.45/12-FR

Etanorm-R 250-400, n = 960 t/min

Etanorm-RSY

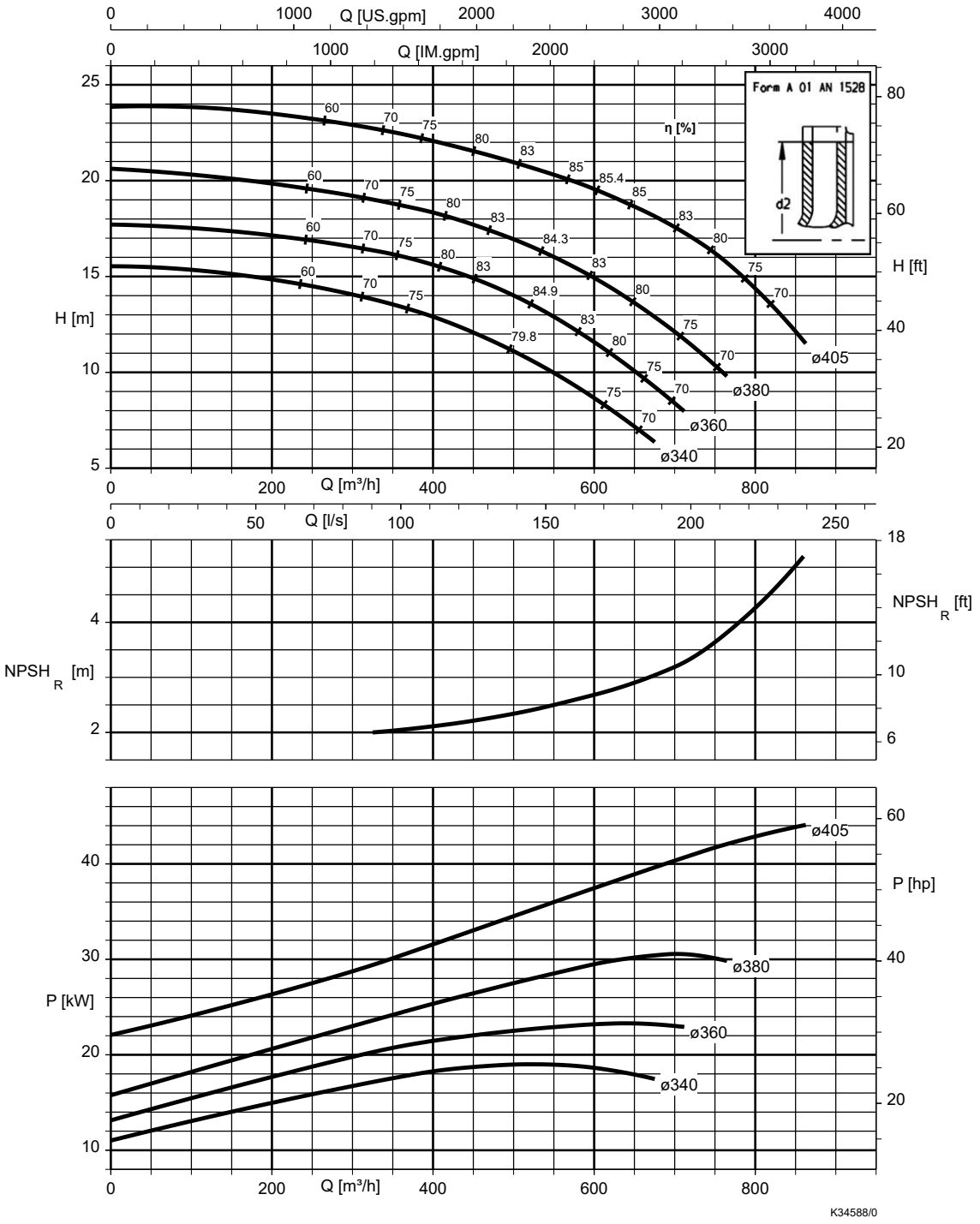


Tableau 24: Valeurs de correction

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

1311.45/12-FR

Etanorm-R 250-500, n = 960 t/min

Etanorm-RSY

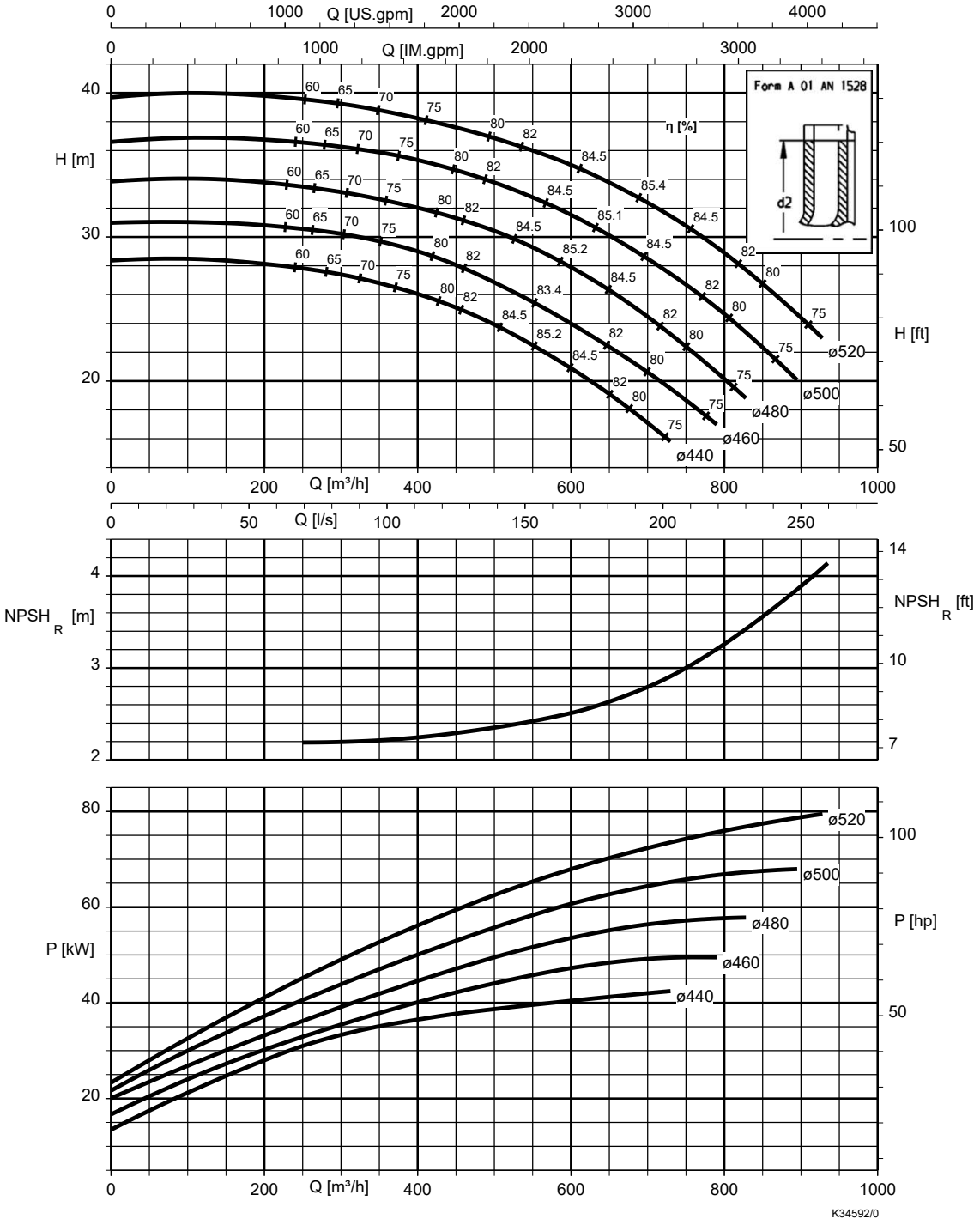


Tableau 25: Valeurs de correction

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	

1311.45/12-FR

Etanorm-R 300-340, n = 960 t/min

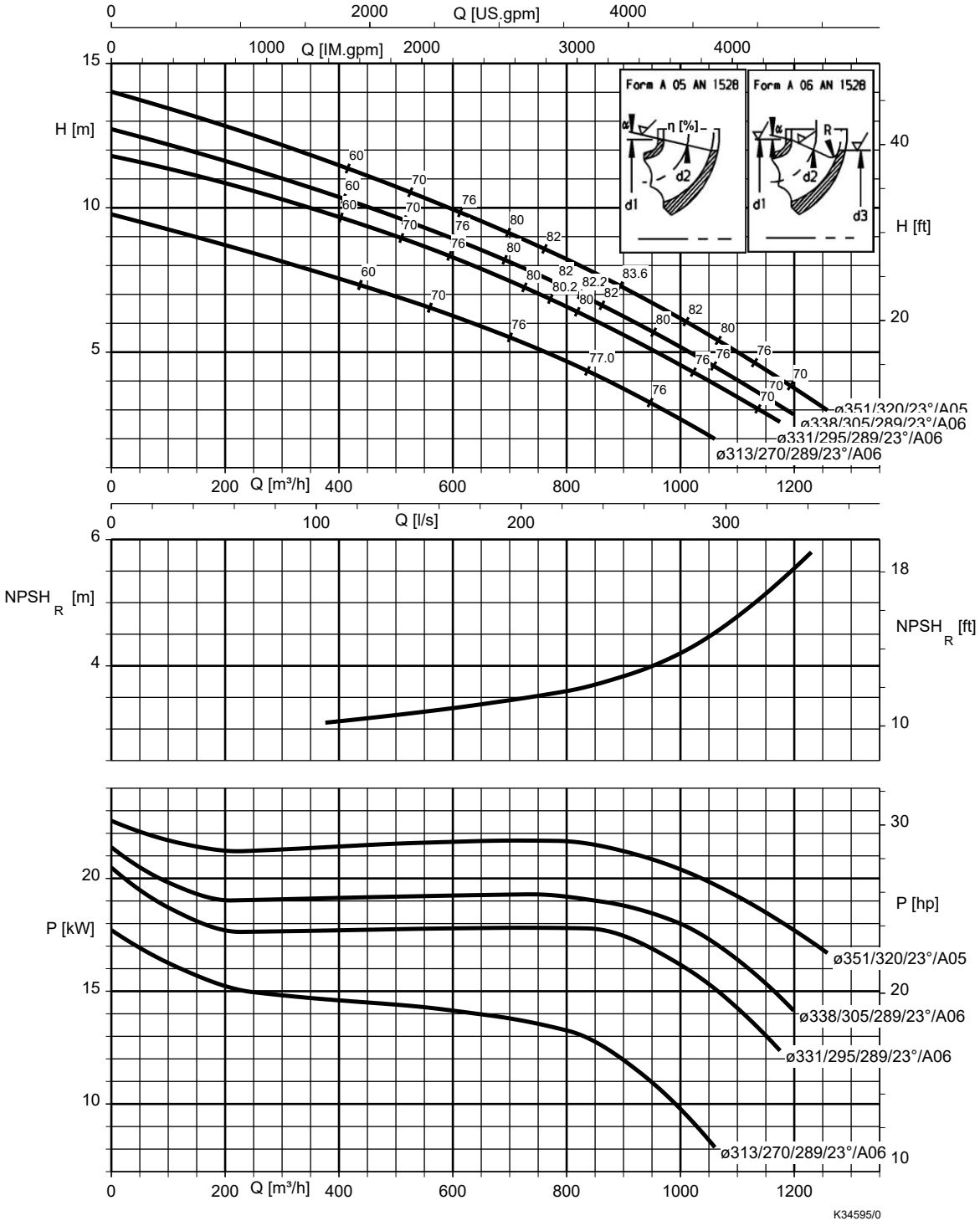


Tableau 26: Valeurs de correction

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

1311.45/12-FR

Etanorm-R 300-360, n = 960 t/min

Etanorm-RSY

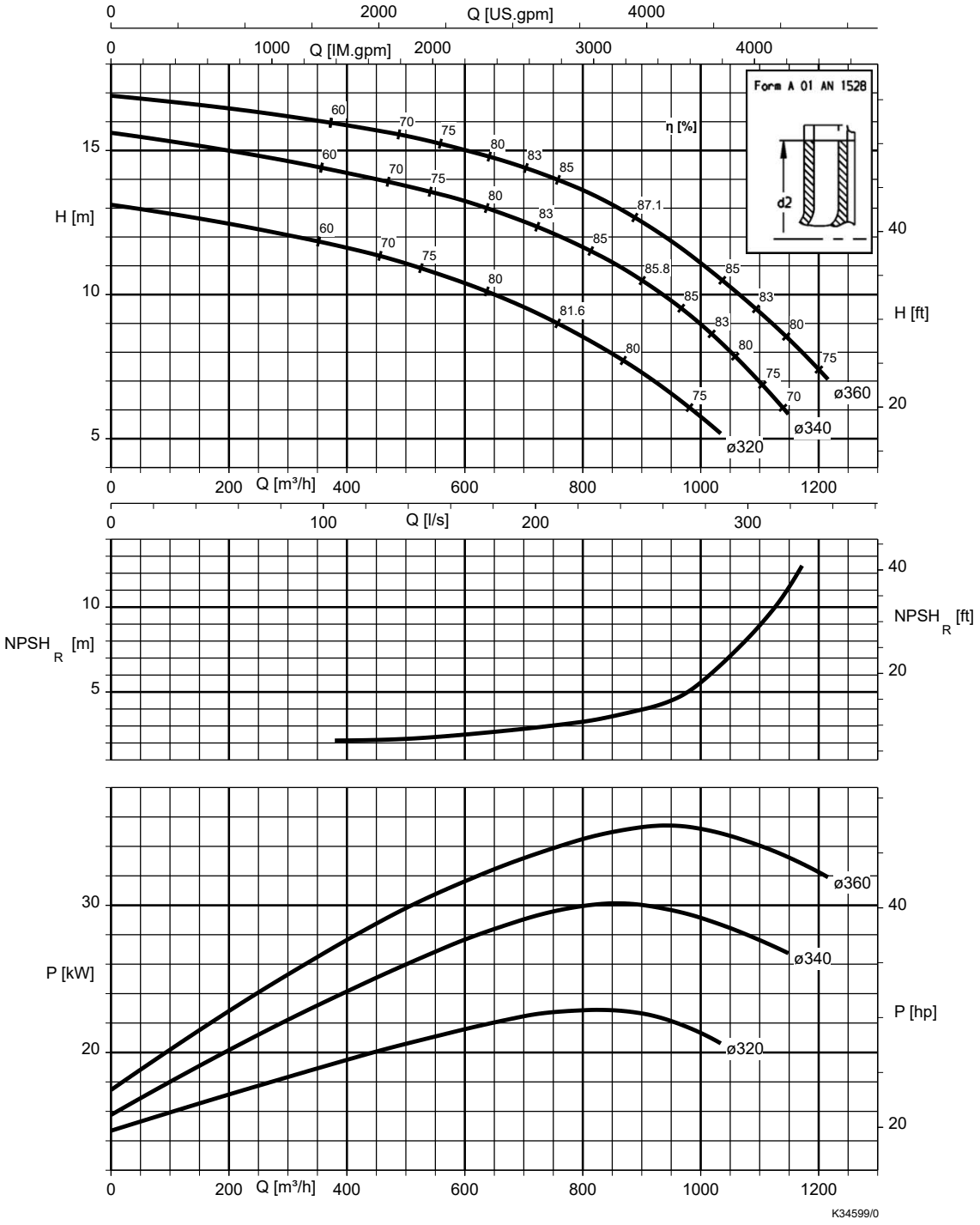


Tableau 27: Valeurs de correction

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	

1311.45/12-FR

Etanorm-R 300-400, n = 960 t/min

Etanorm-RSY

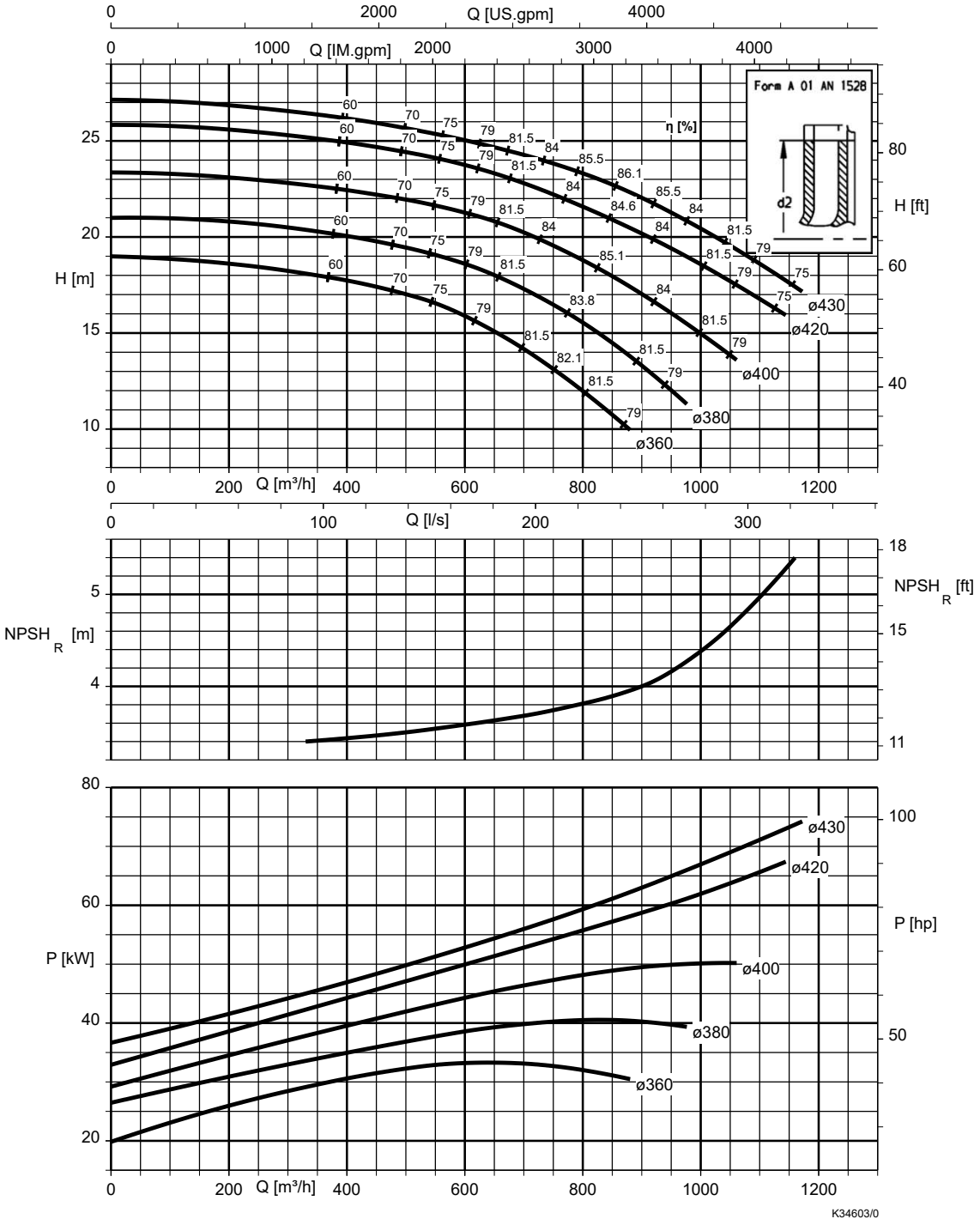


Tableau 28: Valeurs de correction

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	

1311.45/12-FR

Etanorm-R 300-500, n = 960 t/min

Etanorm-RSY

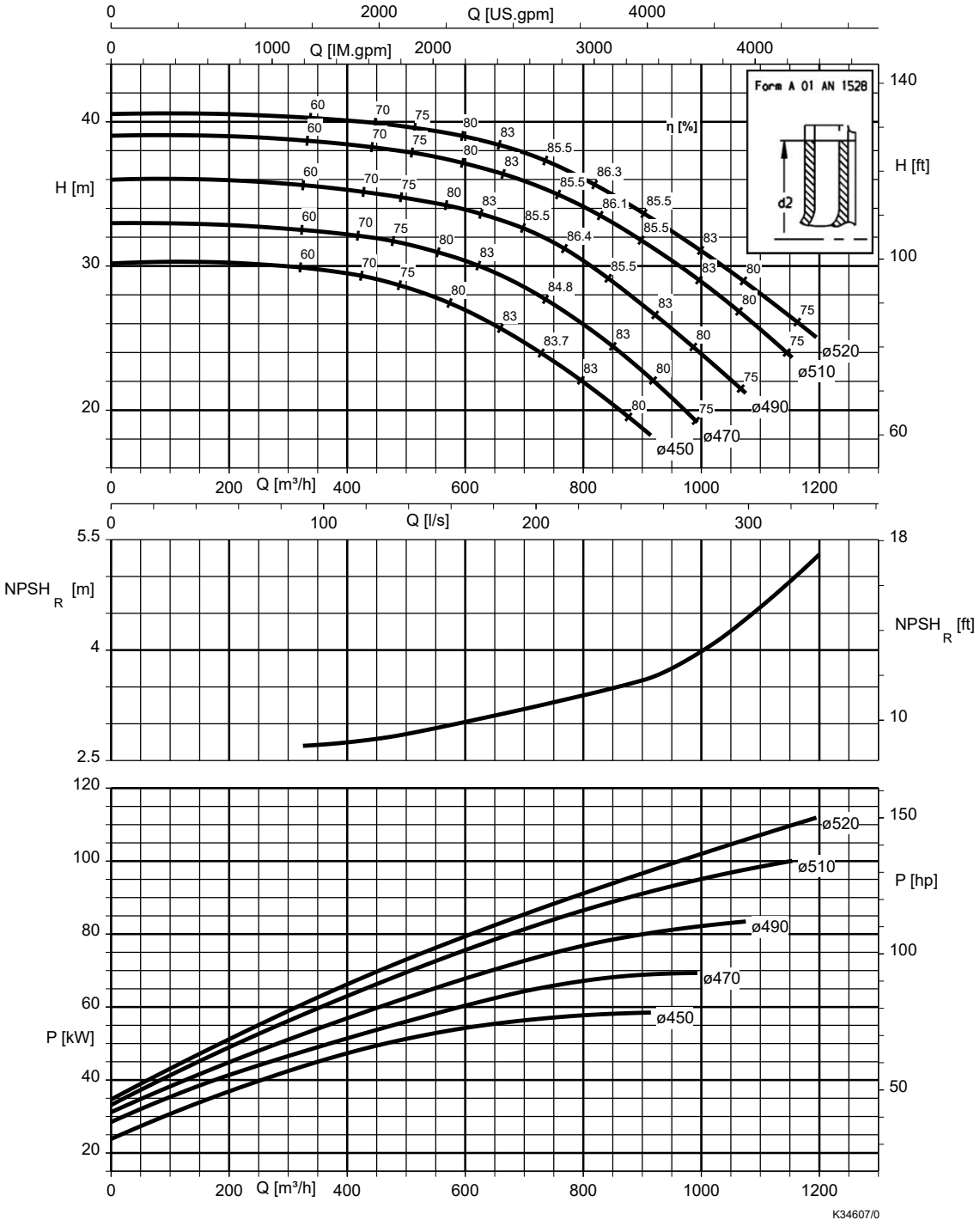


Tableau 29: Valeurs de correction

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	

1311.45/12-FR

2025-04-04

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

1311.45/12-FR