

Wassernormpumpe/ Wärmeträgeröl-/  
Heißwasserpumpe

**50 Hz**

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

**Kennlinienheft**



## **Impressum**

Kennlinienheft 50 Hz

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## Inhaltsverzeichnis

|                                                                      |          |
|----------------------------------------------------------------------|----------|
| <b>Kreiselpumpen mit Wellendichtung</b> .....                        | <b>4</b> |
| Wassernormpumpe/ Wärmeträgeröl-/Heißwasserpumpe .....                | 4        |
| Etanorm/ SYT/ V; Etabloc/ SYT; Etanorm-RSY .....                     | 4        |
| Allgemein .....                                                      | 4        |
| Baugrößenübersicht.....                                              | 5        |
| Kennfelder.....                                                      | 7        |
| Etanorm, n = 2900 min <sup>-1</sup> .....                            | 7        |
| Etanorm, n = 1450 min <sup>-1</sup> .....                            | 8        |
| Etanorm, n = 960 min <sup>-1</sup> .....                             | 9        |
| Etanorm SYT, n = 2900 min <sup>-1</sup> .....                        | 10       |
| Etanorm SYT, n = 1450 min <sup>-1</sup> .....                        | 11       |
| Etanorm SYT, n = 960 min <sup>-1</sup> .....                         | 12       |
| Etabloc SYT, n = 2900 min <sup>-1</sup> .....                        | 13       |
| Etabloc SYT, n = 1450 min <sup>-1</sup> .....                        | 14       |
| Etanorm V (ungeregelte Ausführung), n = 2900 min <sup>-1</sup> ..... | 15       |
| Etanorm V (ungeregelte Ausführung), n = 1450 min <sup>-1</sup> ..... | 16       |
| Etabloc, n = 2900 min <sup>-1</sup> (ungeregelte Ausführung) .....   | 17       |
| Etabloc, n = 1450 min <sup>-1</sup> (ungeregelte Ausführung) .....   | 18       |
| Etabloc, n = 960 min <sup>-1</sup> (ungeregelte Ausführung) .....    | 19       |
| Etanorm-RSY, n = 1450 min <sup>-1</sup> .....                        | 20       |
| Etanorm-RSY, n = 960 min <sup>-1</sup> .....                         | 21       |
| Kennlinien .....                                                     | 22       |
| n = 2900 min <sup>-1</sup> .....                                     | 22       |
| n = 1450 min <sup>-1</sup> .....                                     | 56       |
| n = 960 min <sup>-1</sup> .....                                      | 130      |

## Kreiselpumpen mit Wellendichtung

Wassernormpumpe/ Wärmeträgeröl-/Heißwasserpumpe

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



Etanorm



Etanorm SYT



Etanorm V



Etabloc



Etabloc SYT



Etanorm-RSY

#### Allgemein

**Abnahmeklasse:** Kennlinien gemäß ISO 9906-Klasse 3B

#### NPSH-Werte

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

#### NPSH-Wert im Teillastgebiet

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

#### Dichte des Fördermediums

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

#### Reibleistung

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

#### Abwertefaktoren

Die Kennlinien gelten für Pumpen mit Gusseisen- bzw. Bronze-Laufrädern.

##### ▪ Etanorm/SYT; Etabloc/SYT

Bei Verwendung eines Laufrads aus einem Stahlgusswerkstoff müssen Wirkungsgrad und Leistung bei betroffenen Baugrößen mit den in den Kennlinien angegebenen Abwertefaktoren korrigiert werden.

##### ▪ Etanorm-RSY

Bei Verwendung eines Laufrads aus 1.4408 müssen die in den Kennlinien angegebenen Wirkungsgradprozentage jeweils um 2 %-Punkte reduziert werden.

**Baugrößenübersicht**
**Tabelle 1:** Baugrößenübersicht

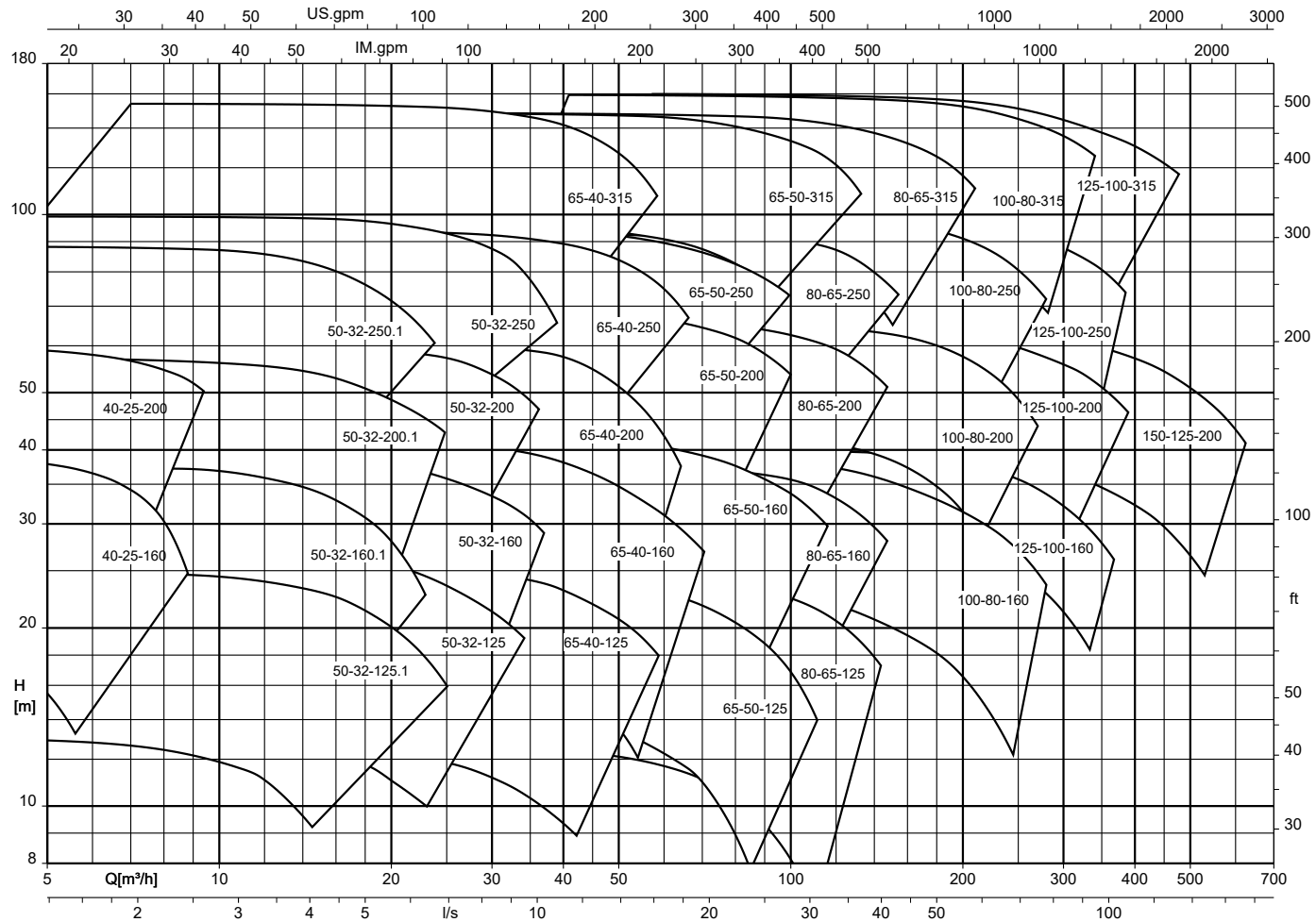
| Baugröße      | Baureihe |             |           |         |             |             | Drehzahl [min <sup>-1</sup> ] |               |               |
|---------------|----------|-------------|-----------|---------|-------------|-------------|-------------------------------|---------------|---------------|
|               | Etanorm  | Etanorm SYT | Etanorm V | Etabloc | Etabloc SYT | Etanorm-RSY | 2900                          | 1450          | 960           |
| 040-025-160   | X        | X           | -         | X       | X           | -           | (⇒ Seite 22)                  | (⇒ Seite 56)  | (⇒ Seite 130) |
| 040-025-200   | X        | X           | -         | X       | X           | -           | (⇒ Seite 23)                  | (⇒ Seite 57)  | (⇒ Seite 131) |
| 050-032-125.1 | X        | X           | X         | X       | X           | -           | (⇒ Seite 24)                  | (⇒ Seite 58)  | (⇒ Seite 132) |
| 050-032-160.1 | X        | X           | X         | X       | X           | -           | (⇒ Seite 25)                  | (⇒ Seite 59)  | (⇒ Seite 133) |
| 050-032-200.1 | X        | X           | X         | X       | X           | -           | (⇒ Seite 26)                  | (⇒ Seite 60)  | (⇒ Seite 134) |
| 050-032-250.1 | X        | -           | X         | X       | -           | -           | (⇒ Seite 27)                  | (⇒ Seite 61)  | (⇒ Seite 135) |
| 050-032-125   | X        | -           | X         | X       | -           | -           | (⇒ Seite 28)                  | (⇒ Seite 62)  | (⇒ Seite 136) |
| 050-032-160   | X        | X           | X         | X       | X           | -           | (⇒ Seite 29)                  | (⇒ Seite 63)  | (⇒ Seite 137) |
| 050-032-200   | X        | X           | X         | X       | X           | -           | (⇒ Seite 30)                  | (⇒ Seite 64)  | (⇒ Seite 138) |
| 050-032-250   | X        | X           | X         | X       | -           | -           | (⇒ Seite 31)                  | (⇒ Seite 65)  | (⇒ Seite 139) |
| 065-040-125   | X        | -           | X         | X       | -           | -           | (⇒ Seite 32)                  | (⇒ Seite 66)  | (⇒ Seite 140) |
| 065-040-160   | X        | X           | X         | X       | X           | -           | (⇒ Seite 33)                  | (⇒ Seite 67)  | (⇒ Seite 141) |
| 065-040-200   | X        | X           | X         | X       | X           | -           | (⇒ Seite 34)                  | (⇒ Seite 68)  | (⇒ Seite 142) |
| 065-040-250   | X        | X           | X         | X       | -           | -           | (⇒ Seite 35)                  | (⇒ Seite 69)  | (⇒ Seite 143) |
| 065-040-315   | X        | X           | X         | X       | -           | -           | (⇒ Seite 36)                  | (⇒ Seite 70)  | (⇒ Seite 144) |
| 065-050-125   | X        | -           | X         | X       | -           | -           | (⇒ Seite 37)                  | (⇒ Seite 71)  | (⇒ Seite 145) |
| 065-050-160   | X        | X           | X         | X       | X           | -           | (⇒ Seite 38)                  | (⇒ Seite 72)  | (⇒ Seite 146) |
| 065-050-200   | X        | X           | X         | X       | X           | -           | (⇒ Seite 39)                  | (⇒ Seite 73)  | (⇒ Seite 147) |
| 065-050-250   | X        | X           | X         | X       | -           | -           | (⇒ Seite 40)                  | (⇒ Seite 74)  | (⇒ Seite 148) |
| 065-050-315   | X        | X           | X         | X       | -           | -           | (⇒ Seite 41)                  | (⇒ Seite 75)  | (⇒ Seite 149) |
| 080-065-125   | X        | -           | X         | X       | -           | -           | (⇒ Seite 42)                  | (⇒ Seite 76)  | (⇒ Seite 150) |
| 080-065-160   | X        | X           | X         | X       | X           | -           | (⇒ Seite 43)                  | (⇒ Seite 77)  | (⇒ Seite 151) |
| 080-065-200   | X        | X           | X         | X       | X           | -           | (⇒ Seite 44)                  | (⇒ Seite 78)  | (⇒ Seite 152) |
| 080-065-250   | X        | X           | X         | X       | -           | -           | (⇒ Seite 45)                  | (⇒ Seite 79)  | (⇒ Seite 153) |
| 080-065-315   | X        | X           | X         | X       | -           | -           | (⇒ Seite 46)                  | (⇒ Seite 80)  | (⇒ Seite 154) |
| 100-080-160   | X        | X           | X         | X       | X           | -           | (⇒ Seite 47)                  | (⇒ Seite 81)  | (⇒ Seite 155) |
| 100-080-200   | X        | X           | X         | X       | -           | -           | (⇒ Seite 48)                  | (⇒ Seite 82)  | (⇒ Seite 156) |
| 100-080-250   | X        | X           | X         | X       | -           | -           | (⇒ Seite 49)                  | (⇒ Seite 83)  | (⇒ Seite 157) |
| 100-080-315   | X        | X           | X         | X       | -           | -           | (⇒ Seite 50)                  | (⇒ Seite 84)  | (⇒ Seite 158) |
| 100-080-400   | X        | -           | X         | X       | -           | -           | -                             | (⇒ Seite 85)  | (⇒ Seite 159) |
| 125-100-160   | X        | X           | X         | X       | -           | -           | (⇒ Seite 51)                  | (⇒ Seite 86)  | (⇒ Seite 160) |
| 125-100-200   | X        | X           | X         | X       | -           | -           | (⇒ Seite 52)                  | (⇒ Seite 87)  | (⇒ Seite 161) |
| 125-100-250   | X        | X           | X         | X       | -           | -           | (⇒ Seite 53)                  | (⇒ Seite 88)  | (⇒ Seite 162) |
| 125-100-315   | X        | X           | X         | X       | -           | -           | (⇒ Seite 54)                  | (⇒ Seite 89)  | (⇒ Seite 163) |
| 125-100-400   | X        | -           | X         | X       | -           | -           | -                             | (⇒ Seite 90)  | (⇒ Seite 164) |
| 150-125-200   | X        | X           | X         | X       | -           | -           | (⇒ Seite 55)                  | (⇒ Seite 91)  | (⇒ Seite 165) |
| 150-125-250   | X        | X           | X         | X       | -           | -           | -                             | (⇒ Seite 92)  | (⇒ Seite 166) |
| 150-125-315   | X        | X           | X         | X       | -           | -           | -                             | (⇒ Seite 93)  | (⇒ Seite 167) |
| 150-125-400   | X        | X           | X         | X       | -           | -           | -                             | (⇒ Seite 94)  | (⇒ Seite 168) |
| 150-125-510   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 95)  | (⇒ Seite 169) |
| 200-150-200   | X        | -           | X         | X       | -           | -           | -                             | (⇒ Seite 96)  | (⇒ Seite 170) |
| 200-150-250   | X        | -           | X         | X       | -           | -           | -                             | (⇒ Seite 97)  | (⇒ Seite 171) |
| 200-150-315   | X        | X           | X         | X       | -           | -           | -                             | (⇒ Seite 98)  | (⇒ Seite 172) |
| 200-150-400   | X        | X           | X         | X       | -           | -           | -                             | (⇒ Seite 99)  | (⇒ Seite 173) |
| 200-150-510   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 100) | (⇒ Seite 174) |
| 200-200-250   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 101) | (⇒ Seite 175) |
| 250-200-275   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 102) | (⇒ Seite 176) |
| 250-200-320   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 103) | (⇒ Seite 177) |
| 250-200-375   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 104) | (⇒ Seite 178) |
| 250-200-435   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 105) | (⇒ Seite 179) |
| 250-200-510   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 106) | (⇒ Seite 180) |
| 300-250-295   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 107) | (⇒ Seite 181) |

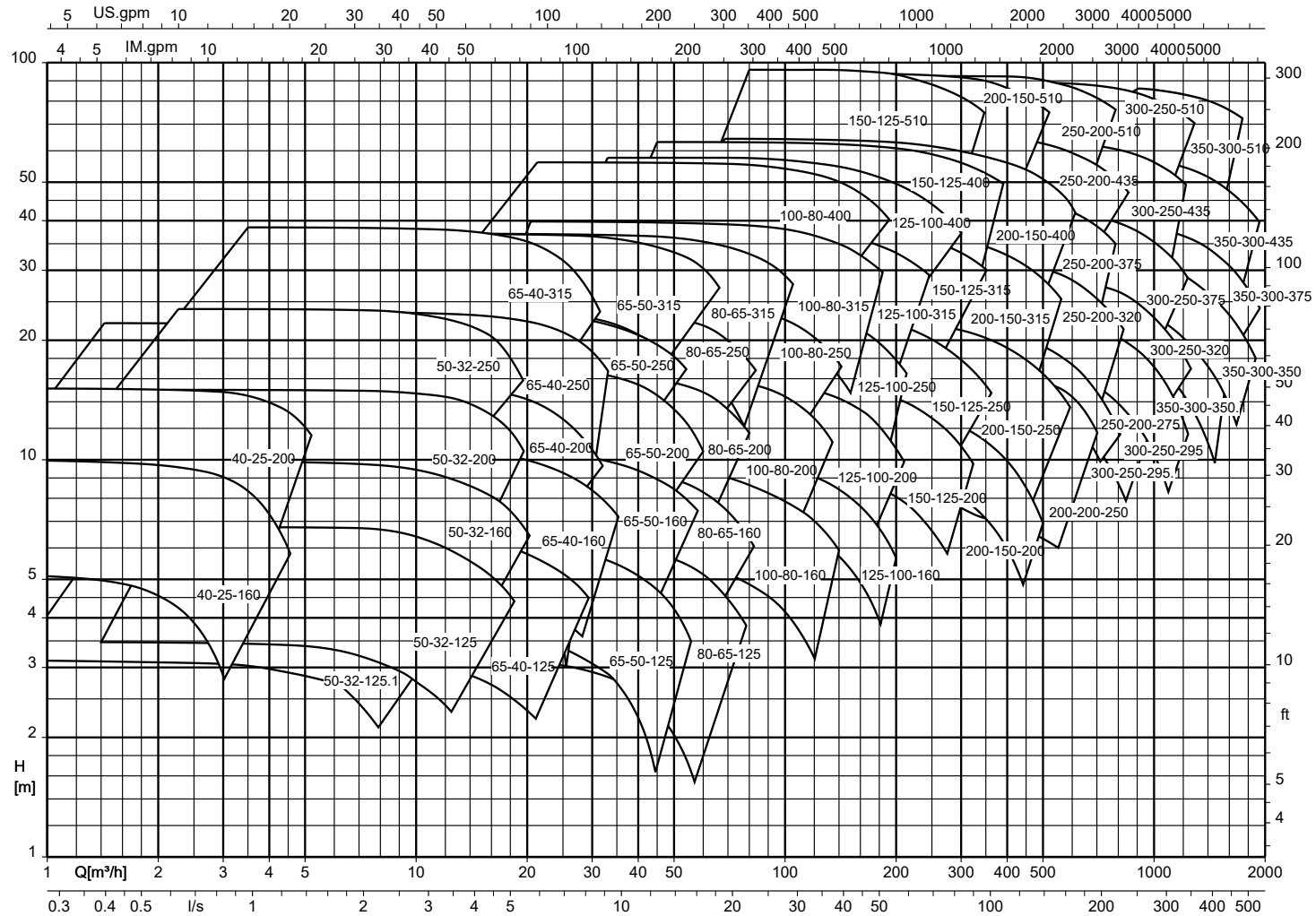
| Baugröße      | Baureihe |             |           |         |             |             | Drehzahl [min <sup>-1</sup> ] |               |               |
|---------------|----------|-------------|-----------|---------|-------------|-------------|-------------------------------|---------------|---------------|
|               | Etanorm  | Etanorm SYT | Etanorm V | Etabloc | Etabloc SYT | Etanorm-RSY | 2900                          | 1450          | 960           |
| 300-250-295.1 | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 108) | (⇒ Seite 182) |
| 300-250-320   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 109) | (⇒ Seite 183) |
| 300-250-375   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 110) | (⇒ Seite 184) |
| 300-250-435   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 111) | (⇒ Seite 185) |
| 300-250-510   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 112) | (⇒ Seite 186) |
| 350-300-350   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 113) | (⇒ Seite 187) |
| 350-300-350.1 | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 114) | (⇒ Seite 188) |
| 350-300-375   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 115) | (⇒ Seite 189) |
| 350-300-435   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 116) | (⇒ Seite 190) |
| 350-300-510   | X        | -           | -         | -       | -           | -           | -                             | (⇒ Seite 117) | (⇒ Seite 191) |

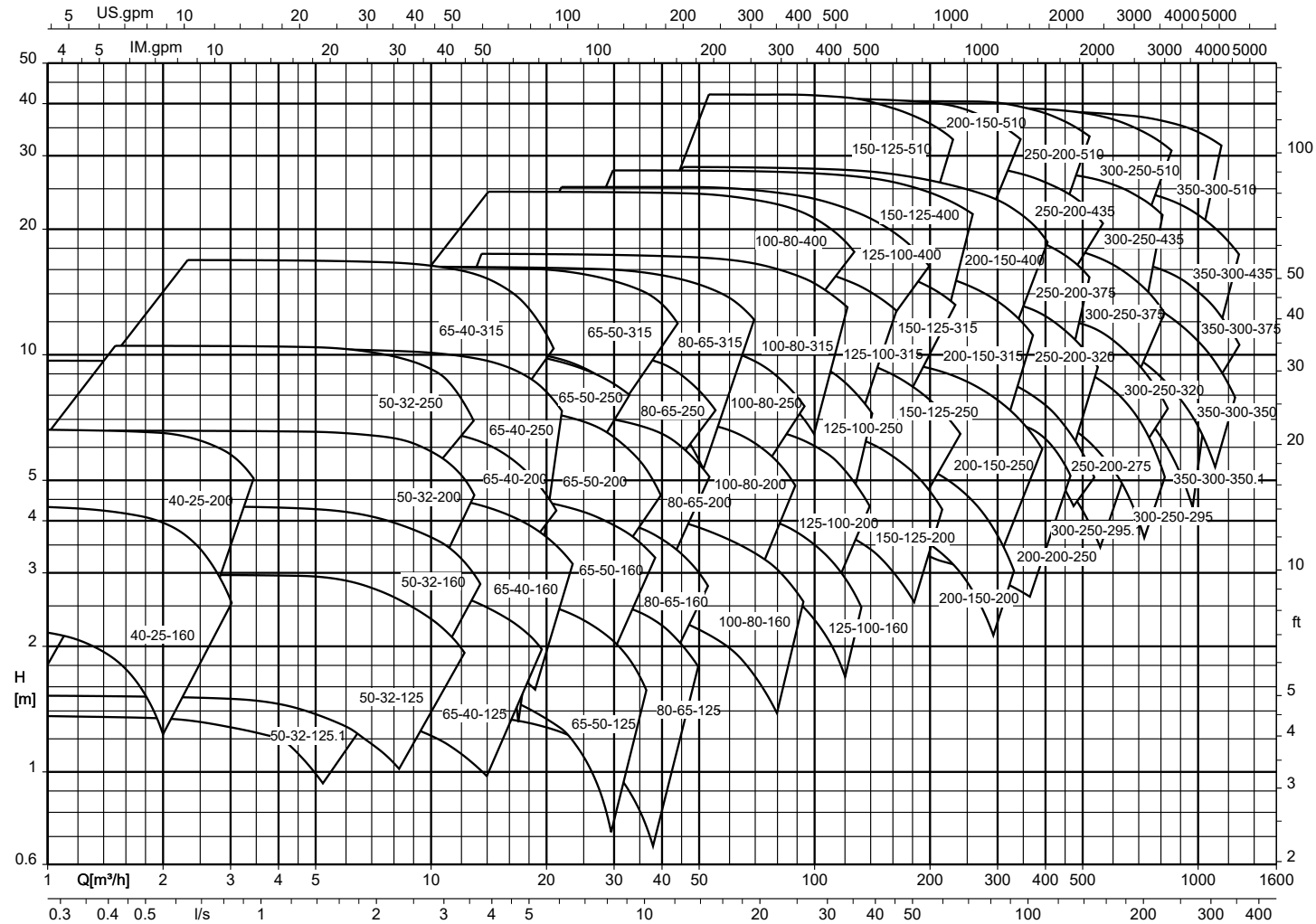
Tabelle 2: Baugrößenübersicht

| Baugröße  | Baureihe |             |           |         |             |             | Drehzahl [min <sup>-1</sup> ] |               |               |
|-----------|----------|-------------|-----------|---------|-------------|-------------|-------------------------------|---------------|---------------|
|           | Etanorm  | Etanorm SYT | Etanorm V | Etabloc | Etabloc SYT | Etanorm-RSY | 2900                          | 1450          | 960           |
| 125-500.2 | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 118) | (⇒ Seite 192) |
| 150-500.1 | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 119) | (⇒ Seite 193) |
| 200-330   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 120) | (⇒ Seite 196) |
| 200-400   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 121) | (⇒ Seite 197) |
| 200-500   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 122) | (⇒ Seite 198) |
| 250-300   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 123) | (⇒ Seite 199) |
| 250-330   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 124) | (⇒ Seite 200) |
| 250-400   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 125) | (⇒ Seite 201) |
| 250-500   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 126) | (⇒ Seite 202) |
| 300-360   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 127) | (⇒ Seite 204) |
| 300-400   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 128) | (⇒ Seite 205) |
| 300-500   | -        | -           | -         | -       | -           | X           | -                             | (⇒ Seite 129) | (⇒ Seite 206) |

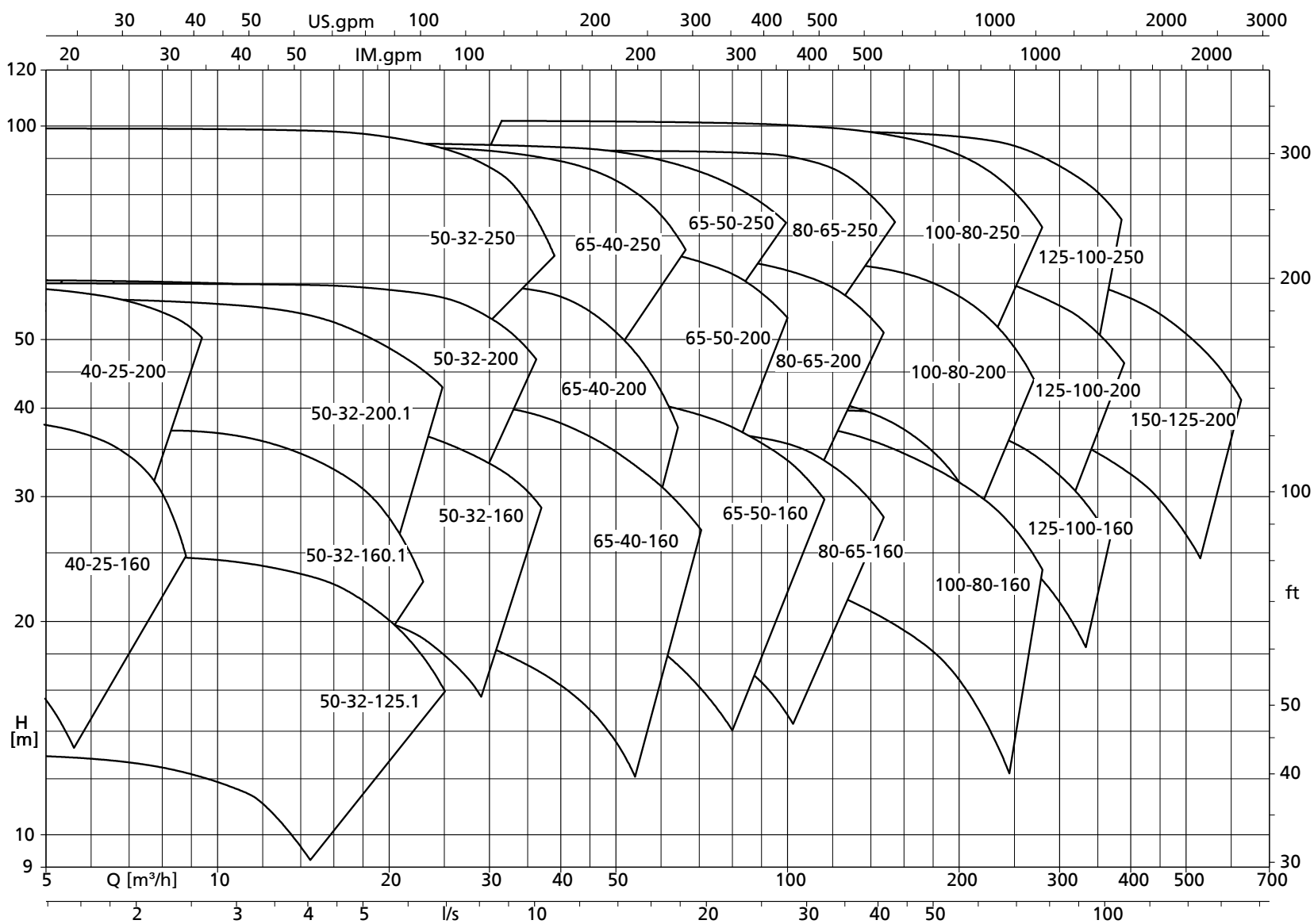
## Kennfelder

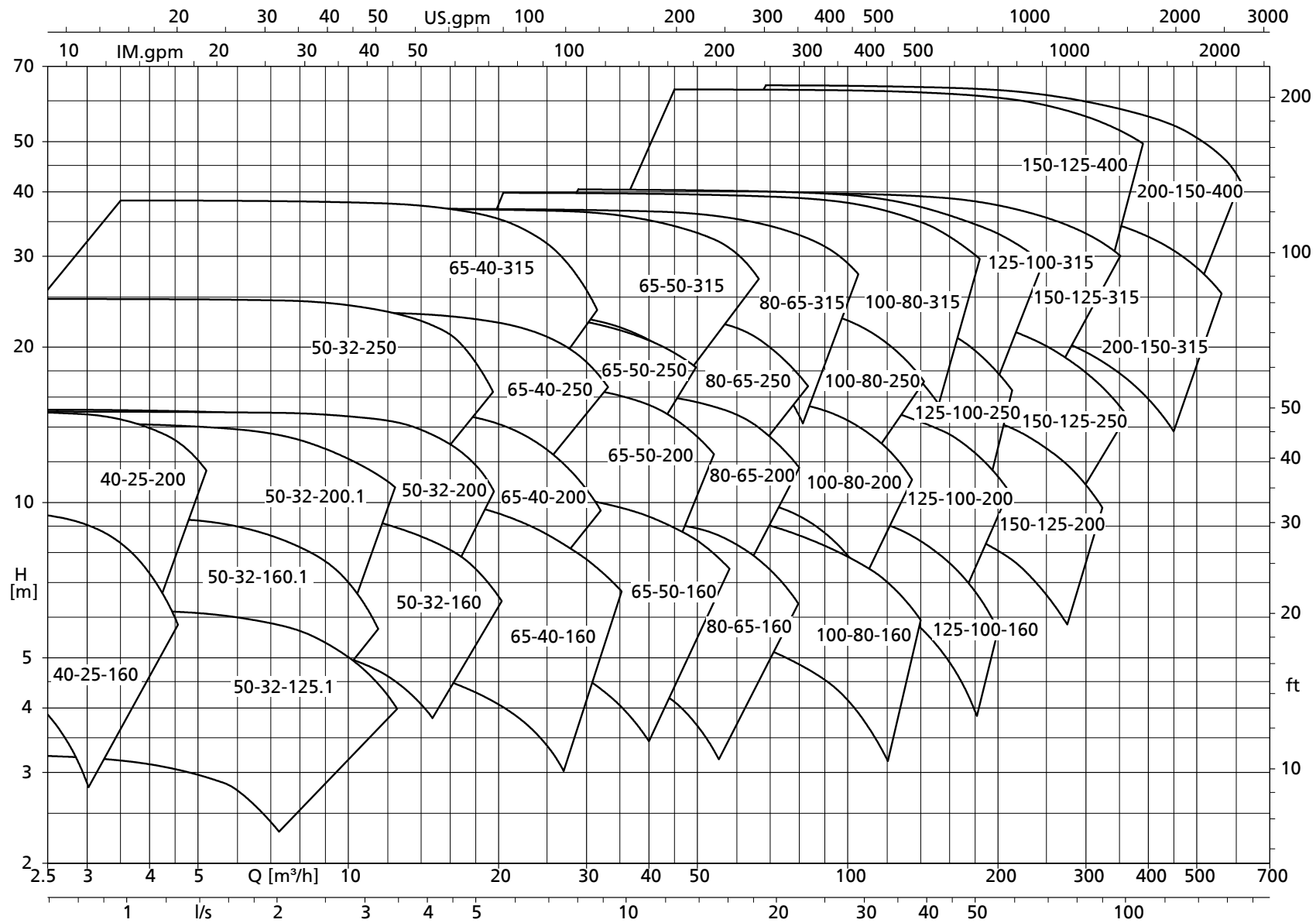
Etanorm,  $n = 2900 \text{ min}^{-1}$ 

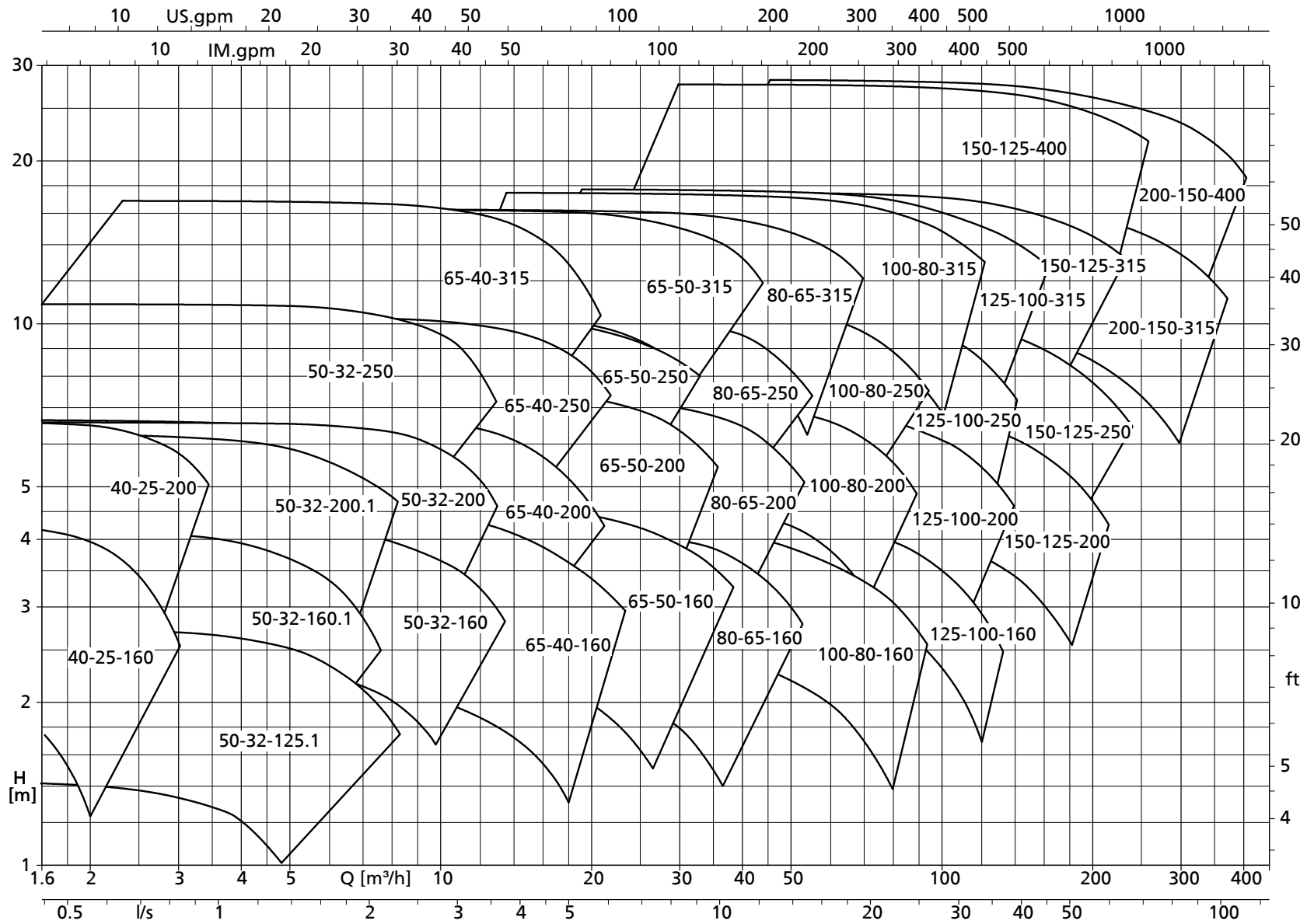
Etanorm,  $n = 1450 \text{ min}^{-1}$ 

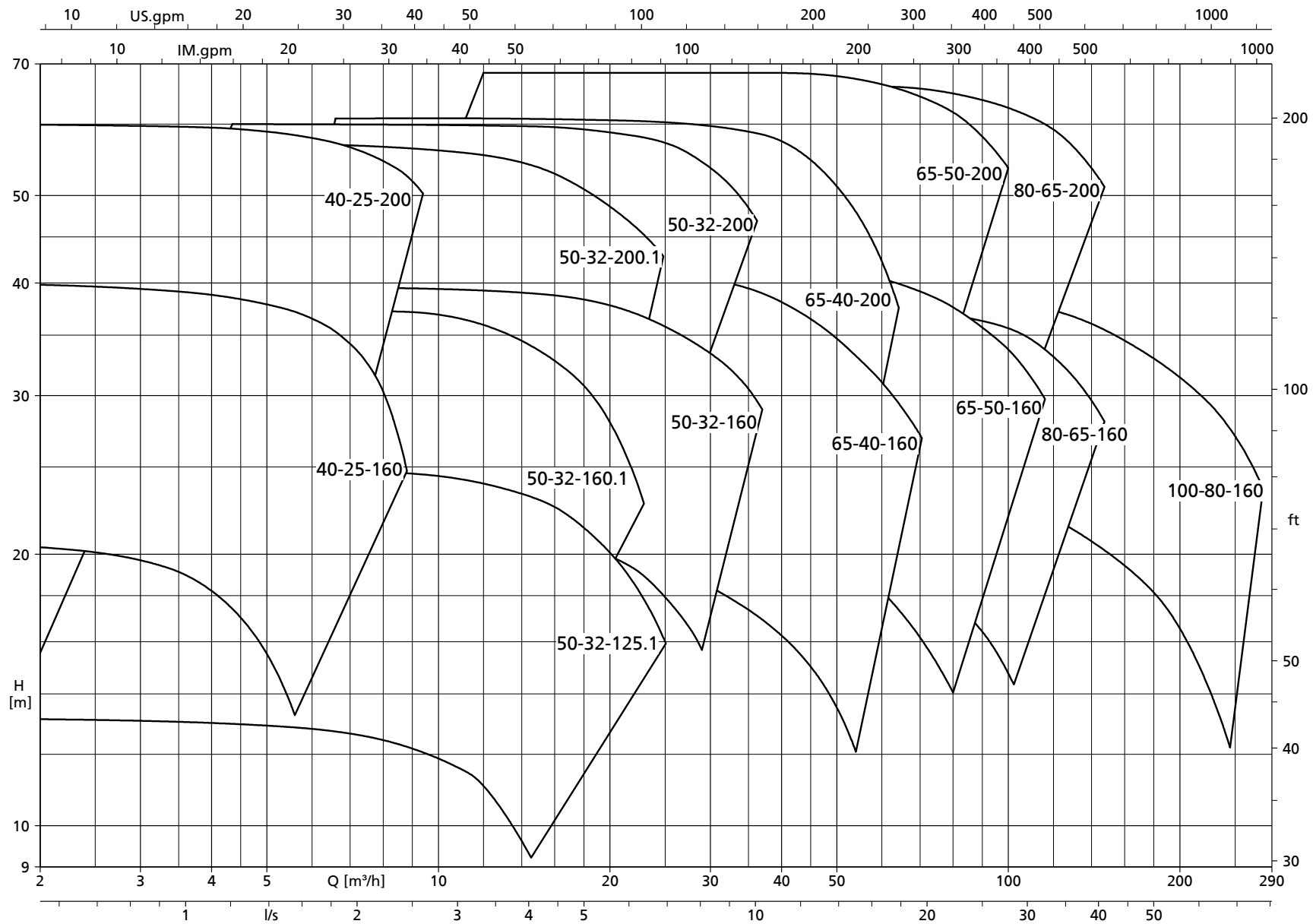
Etanorm,  $n = 960 \text{ min}^{-1}$ 

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

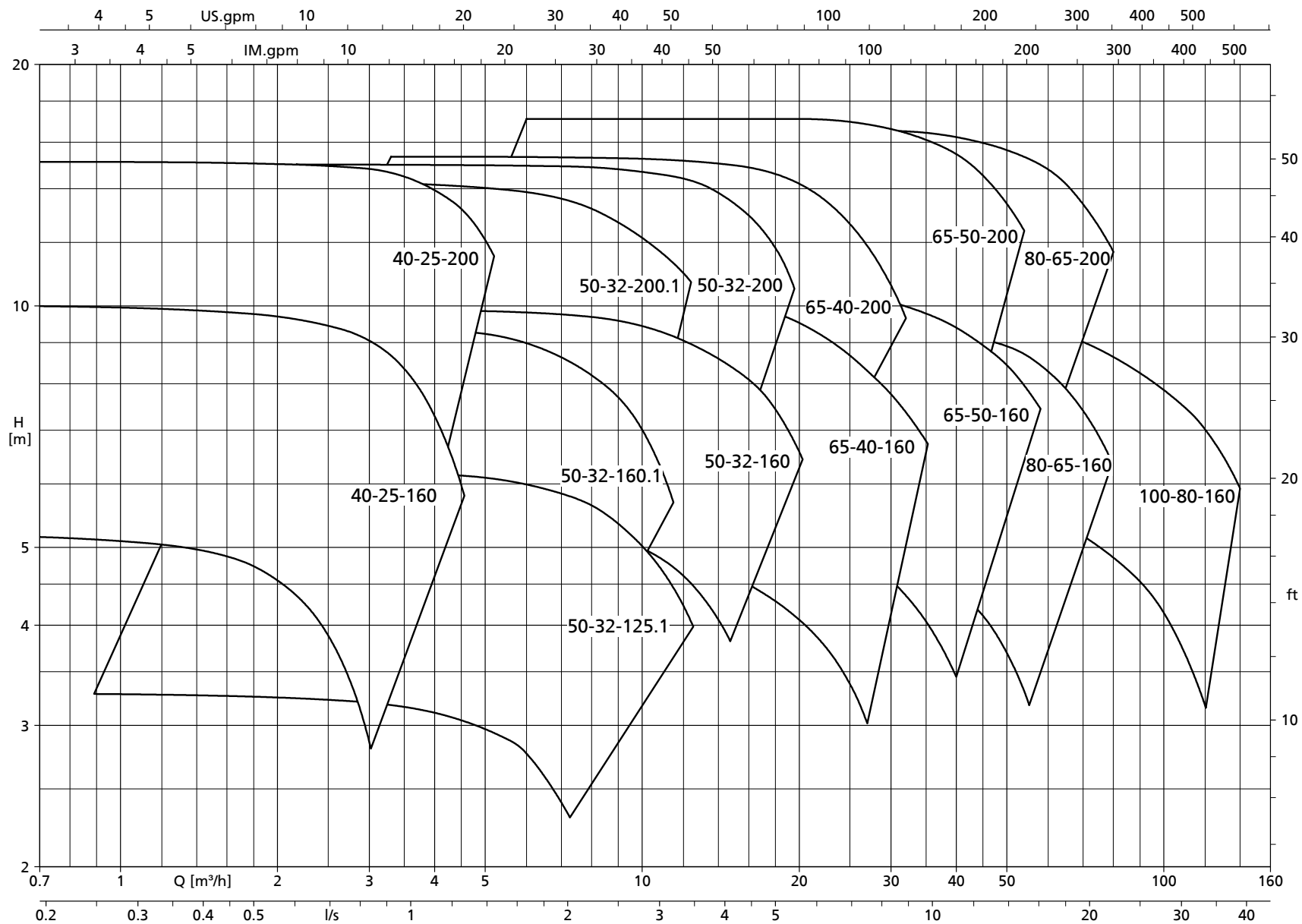


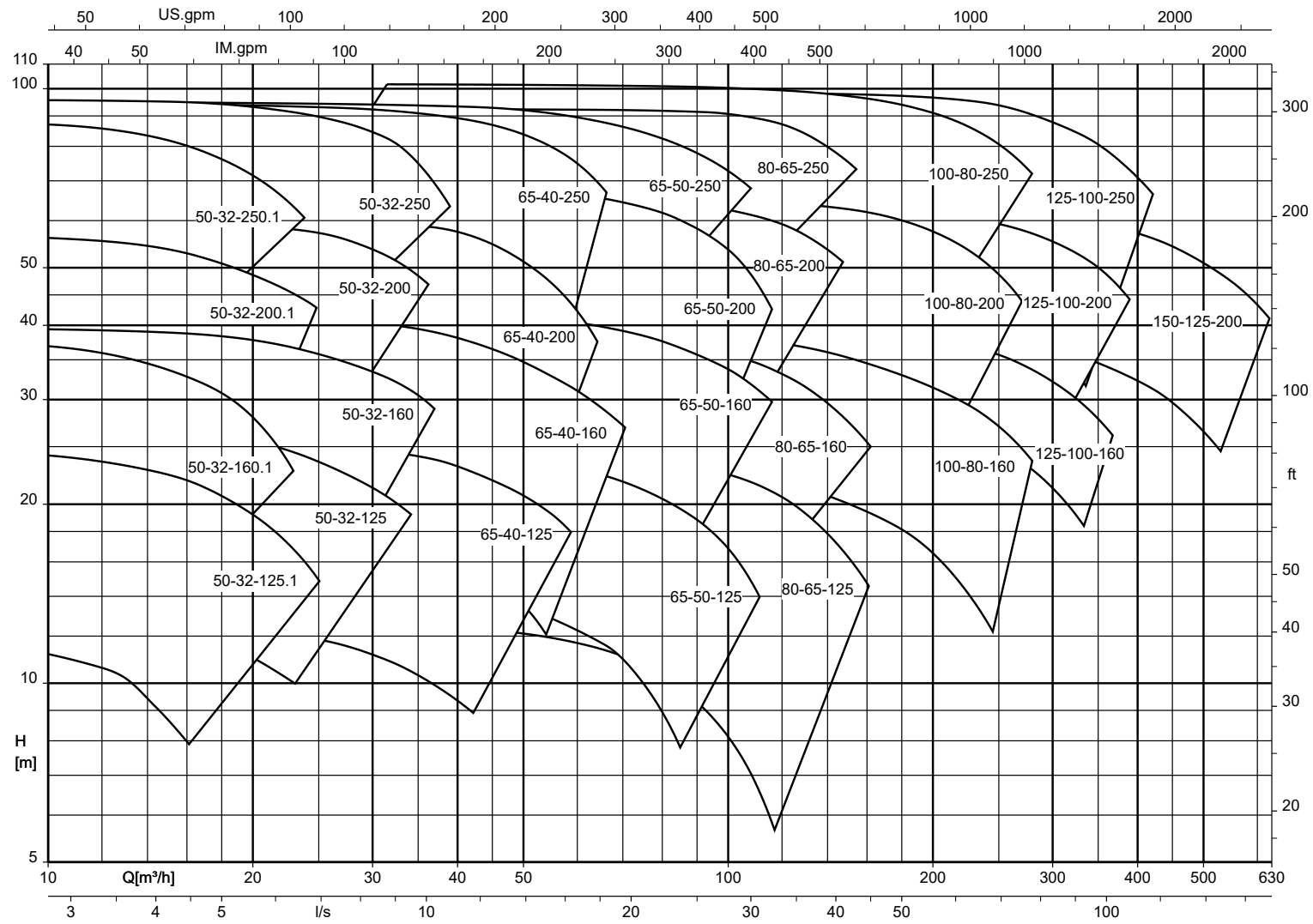
Etanorm SYT,  $n = 1450 \text{ min}^{-1}$ 

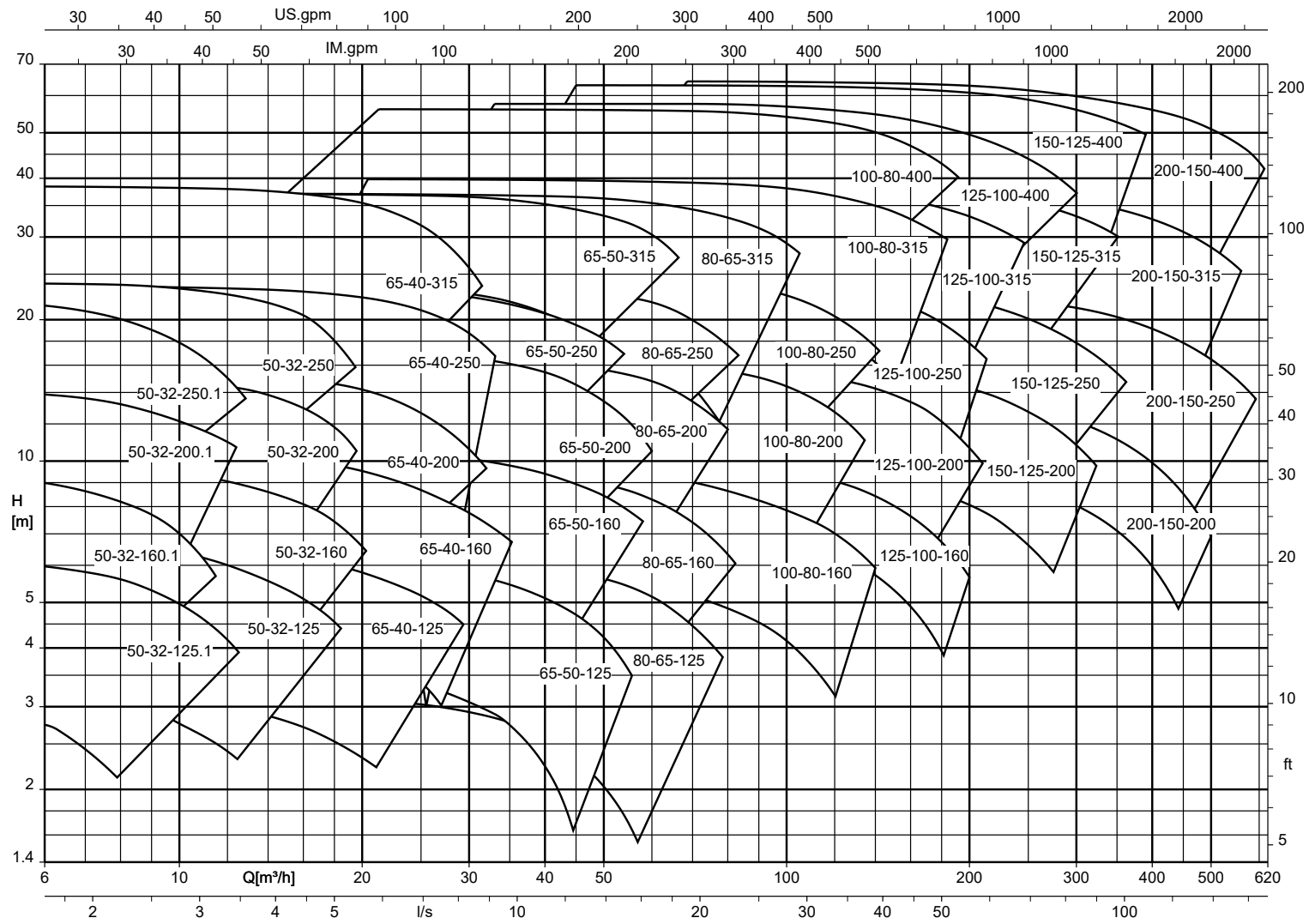
Etanorm SYT,  $n = 960 \text{ min}^{-1}$ 

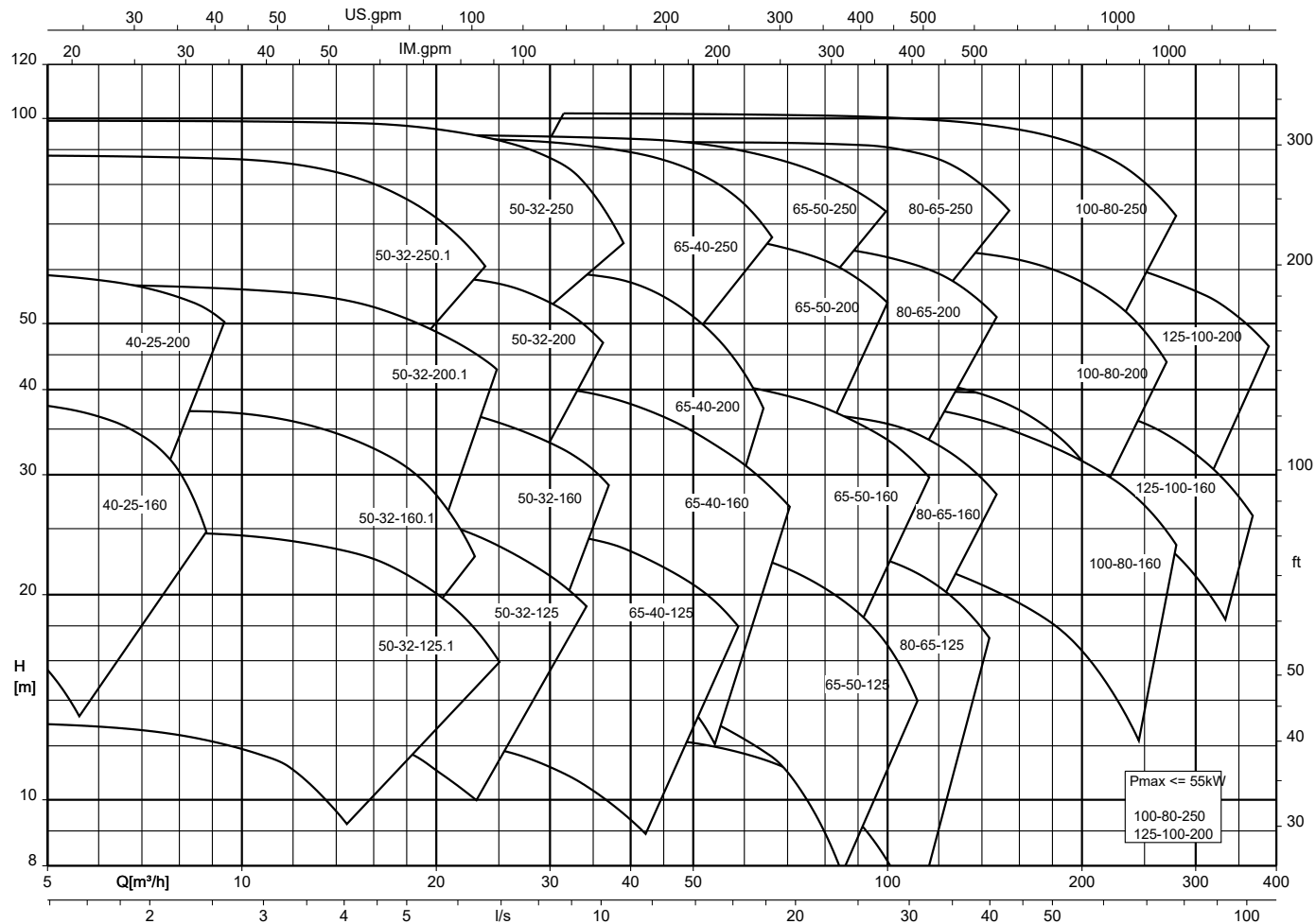
Etabloc SYT,  $n = 2900 \text{ min}^{-1}$ 

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

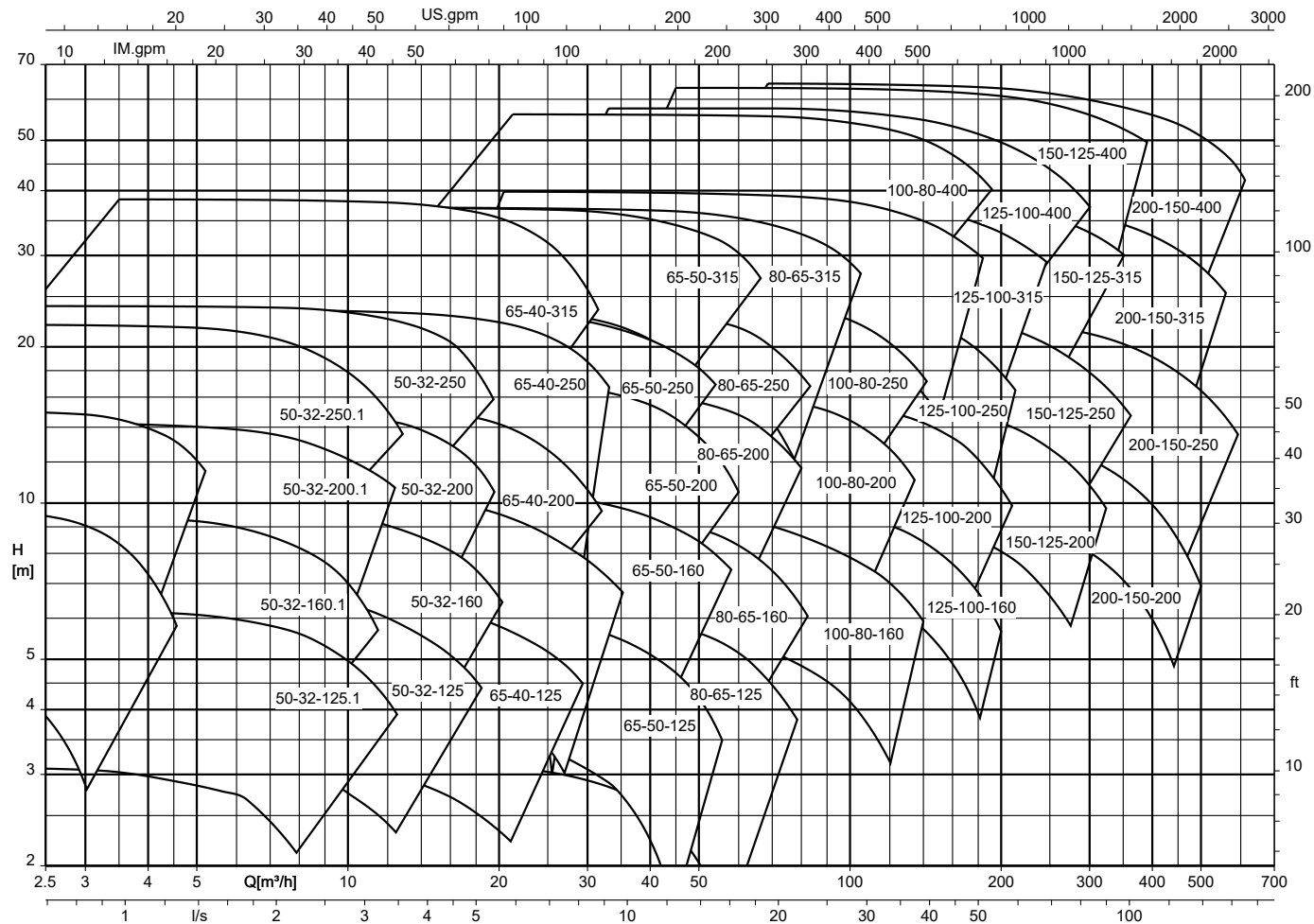


Etanorm V (ungeregelte Ausführung),  $n = 2900 \text{ min}^{-1}$ 

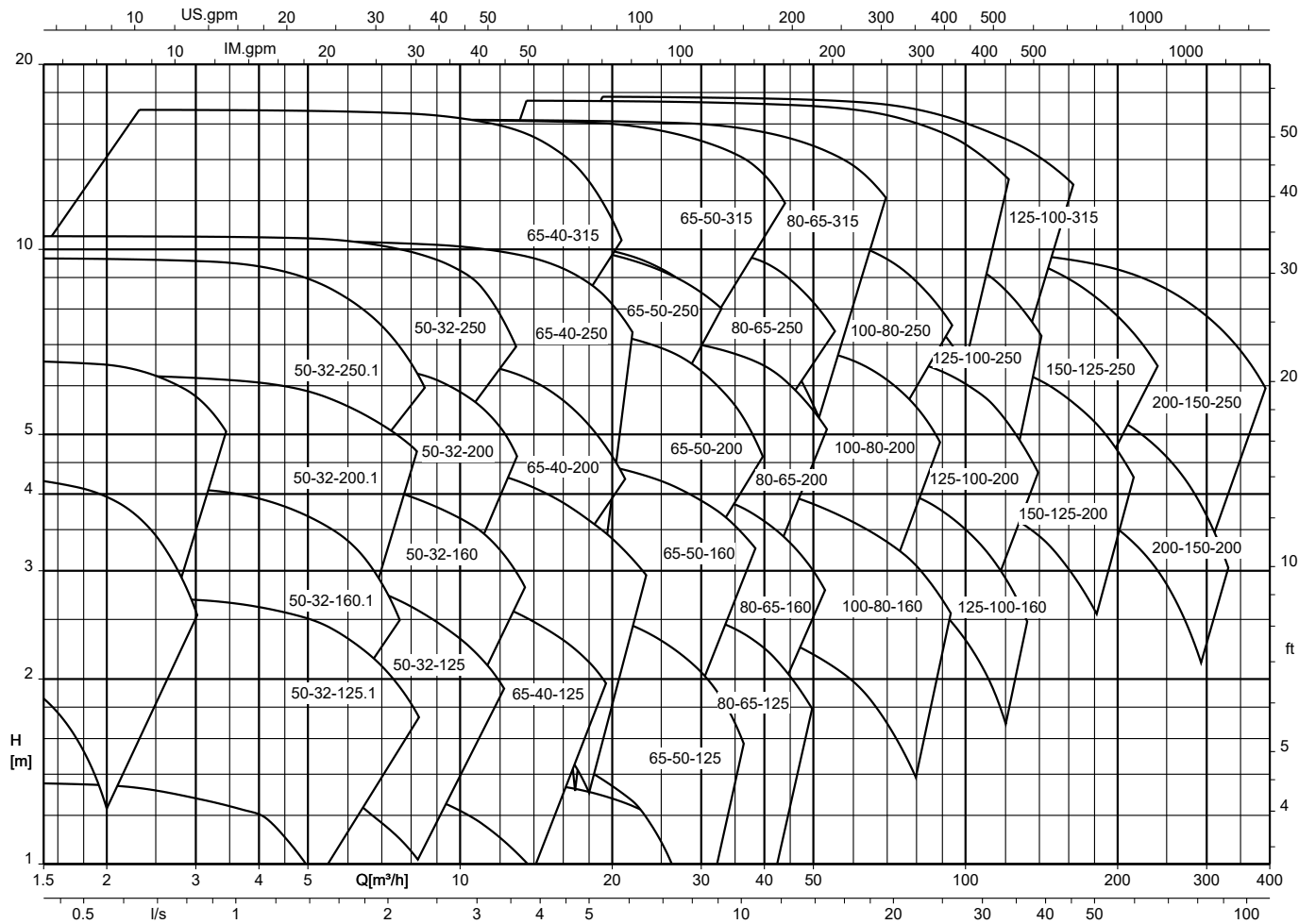
Etanorm V (ungeregelte Ausführung),  $n = 1450 \text{ min}^{-1}$ 

Etabloc,  $n = 2900 \text{ min}^{-1}$  (ungeregelte Ausführung)

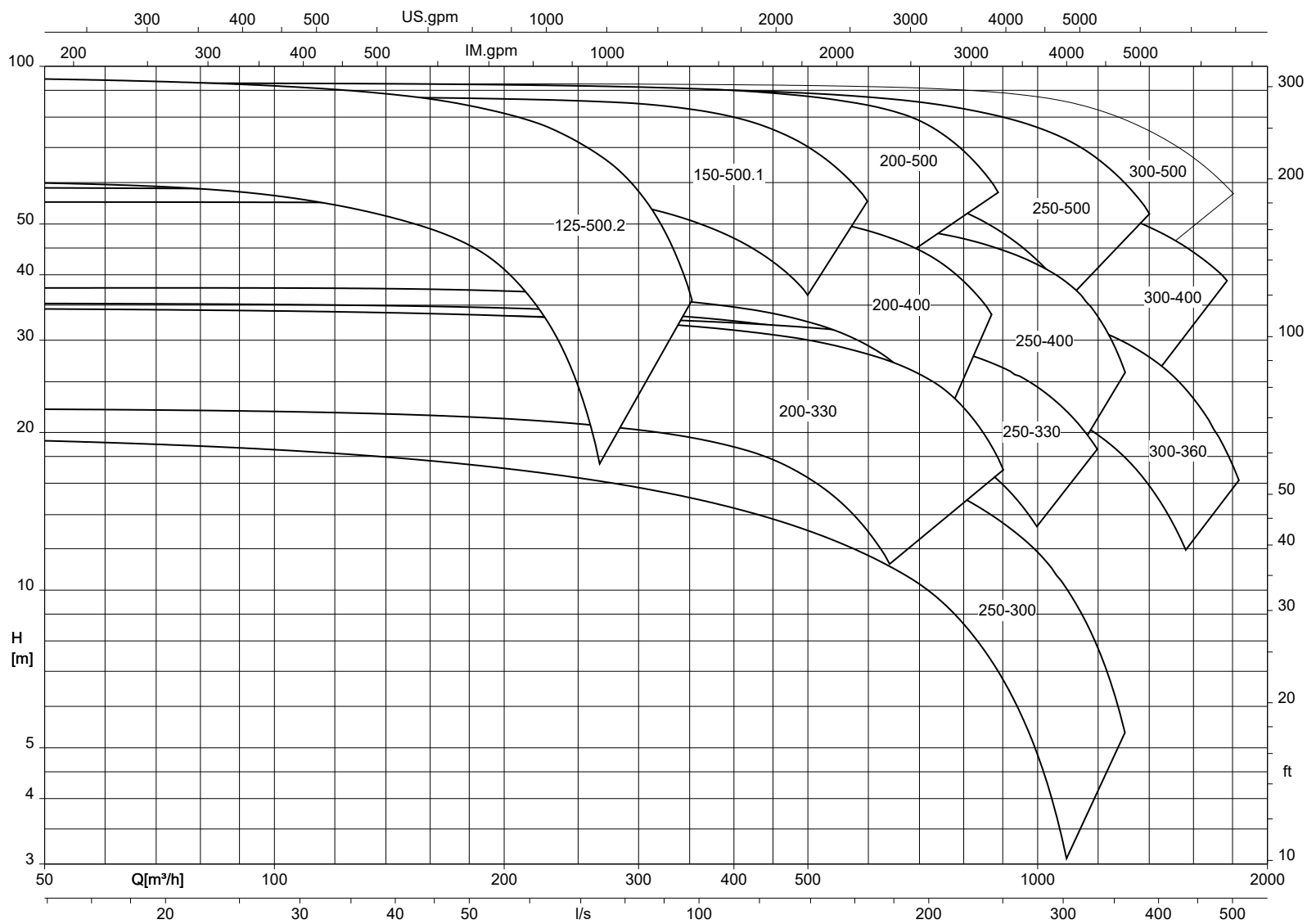
Etabloc 50-315, 65-315, 80-250 und 80-315 nicht für Standort: Indien

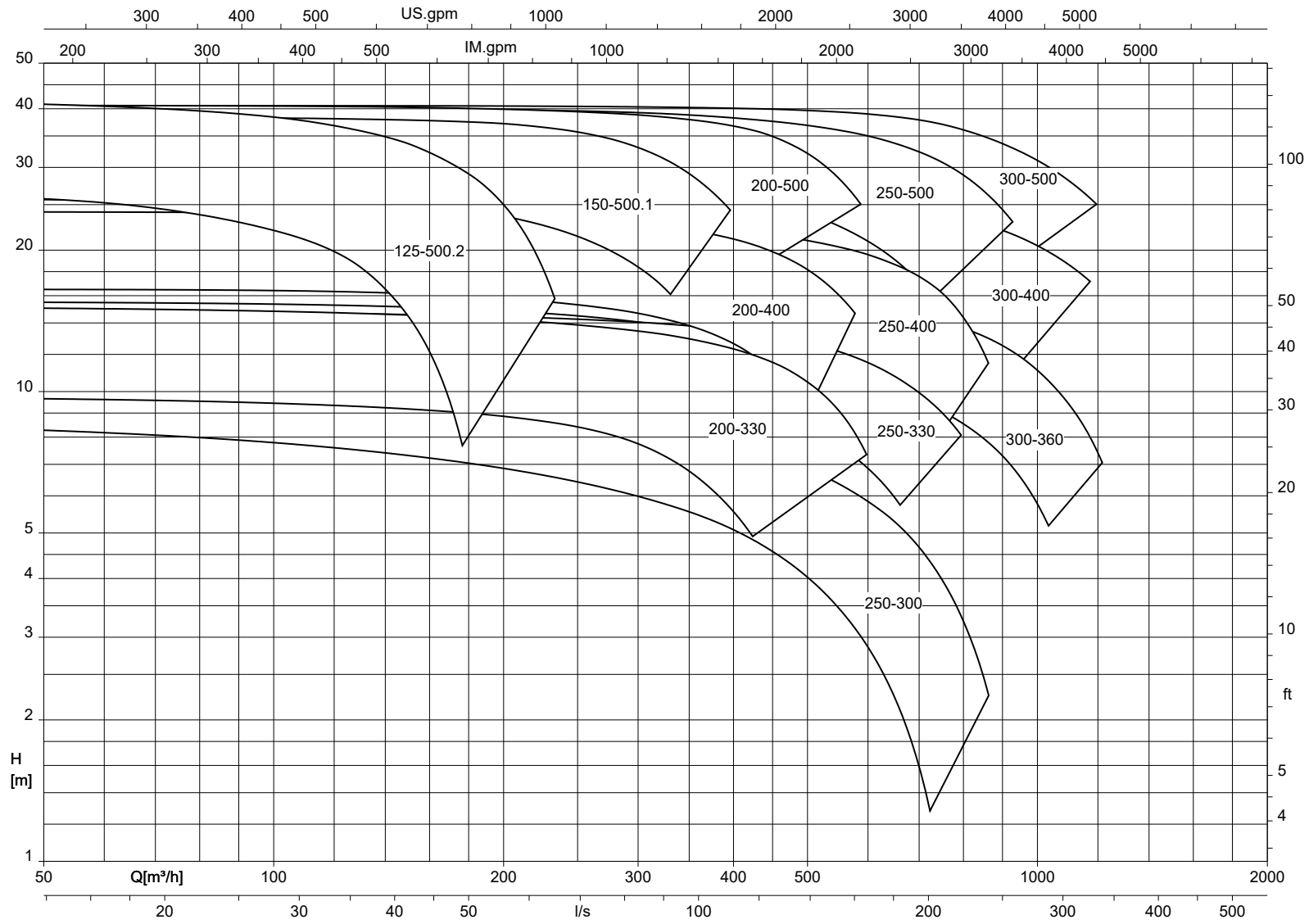
Etabloc,  $n = 1450 \text{ min}^{-1}$  (ungeregelte Ausführung)

Etabloc 80-400, 100-400, 125-315 und 125-400 nicht für Standort: Indien

Etabloc,  $n = 960 \text{ min}^{-1}$  (ungeregelte Ausführung)

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



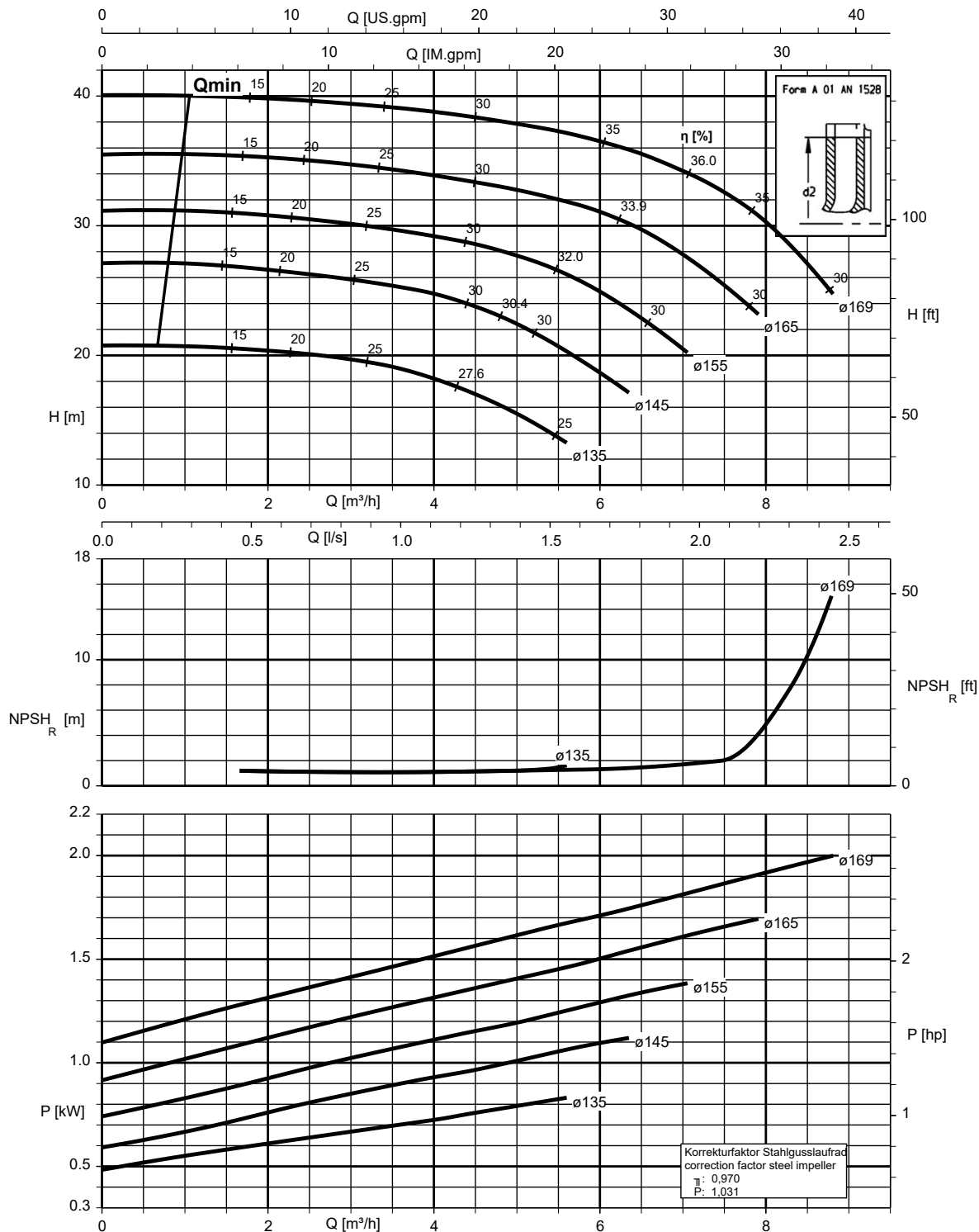
Etanorm-RSY,  $n = 960 \text{ min}^{-1}$ 

## Kennlinien

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

Etanorm 040-025-160,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etabloc, Etabloc SYT

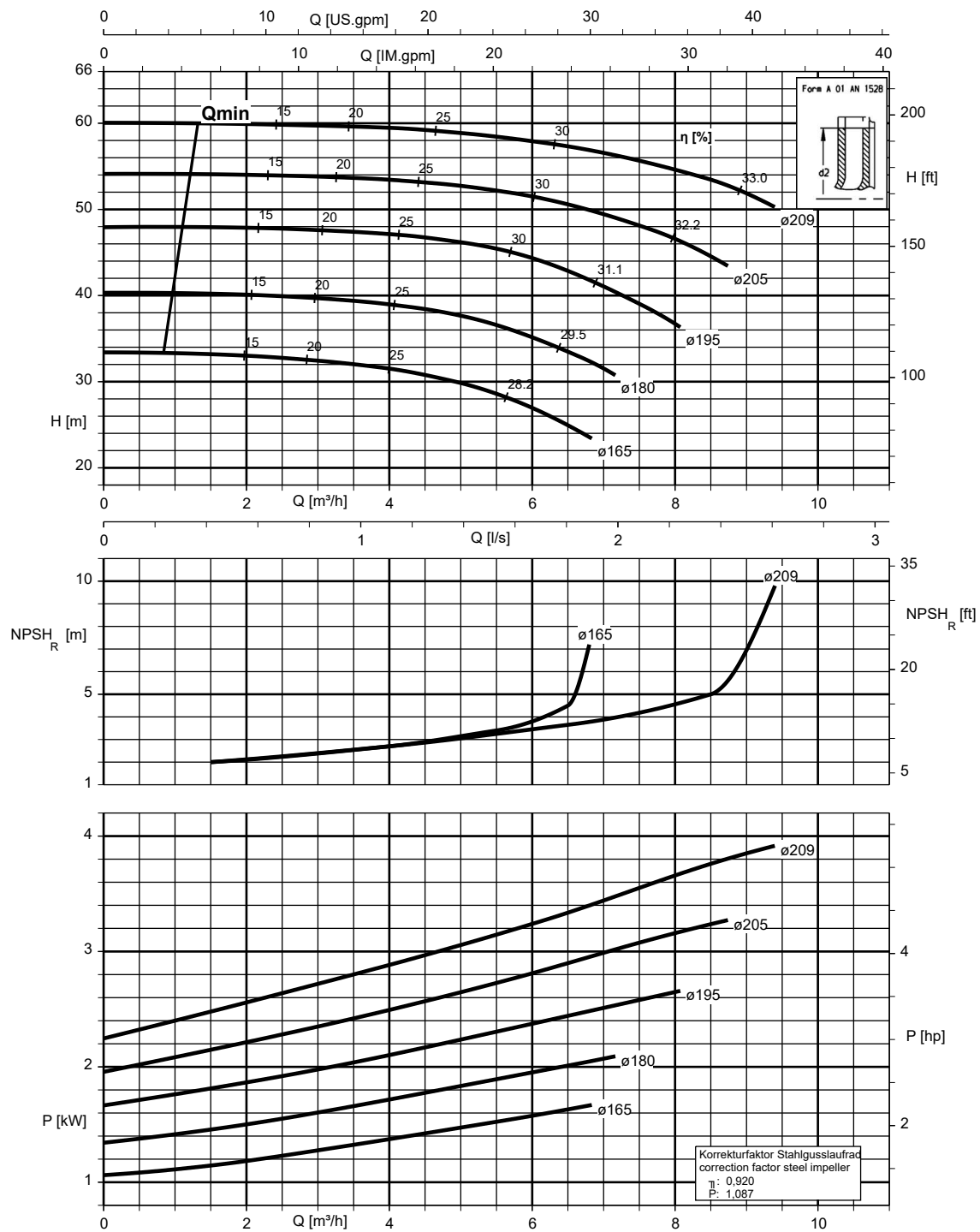


K1311.452/14/2

1311.45/11-DE

Etanorm 040-025-200,  $n = 2900 \text{ min}^{-1}$

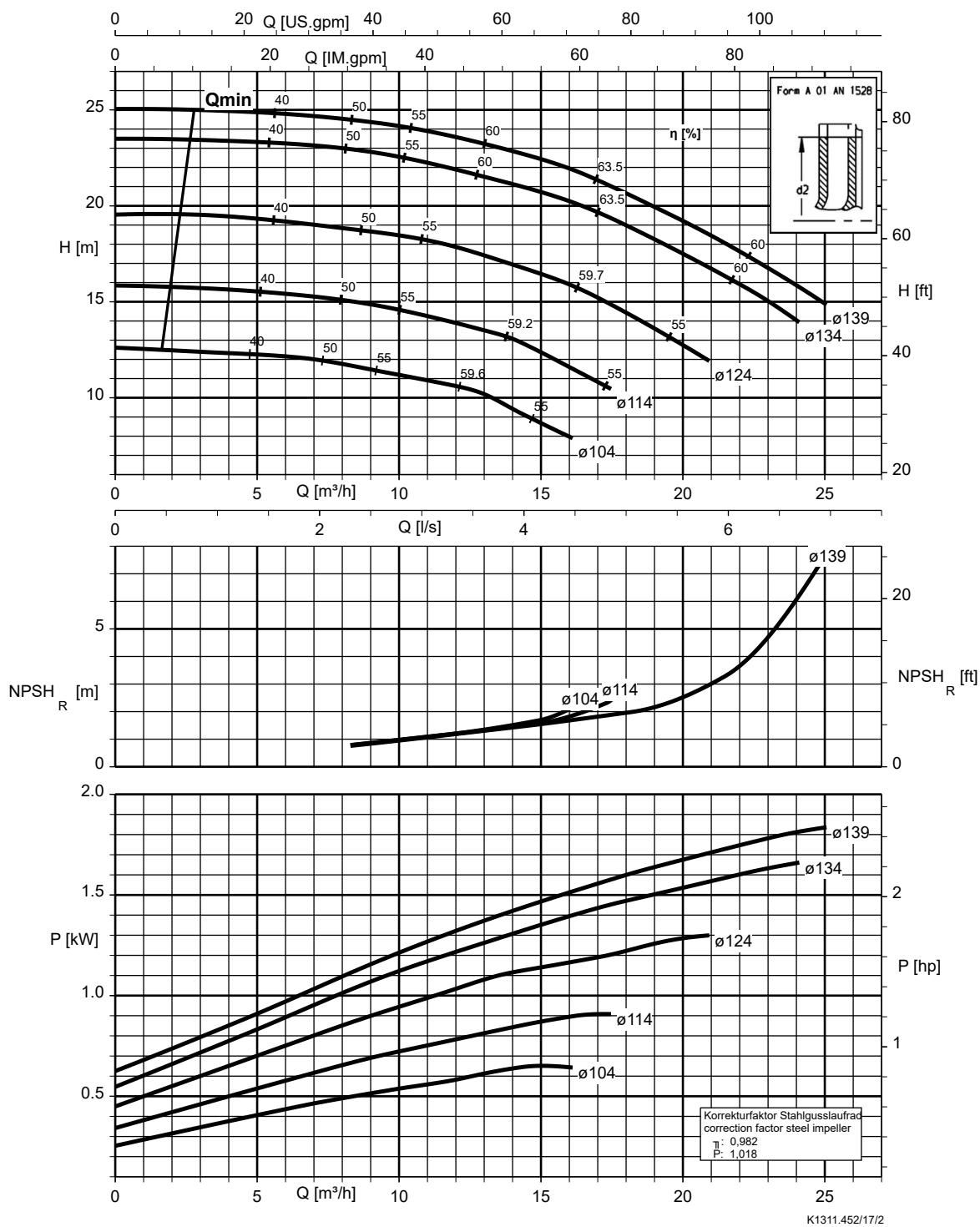
Etanorm SYT, Etabloc, Etabloc SYT



K1311/452/15/2

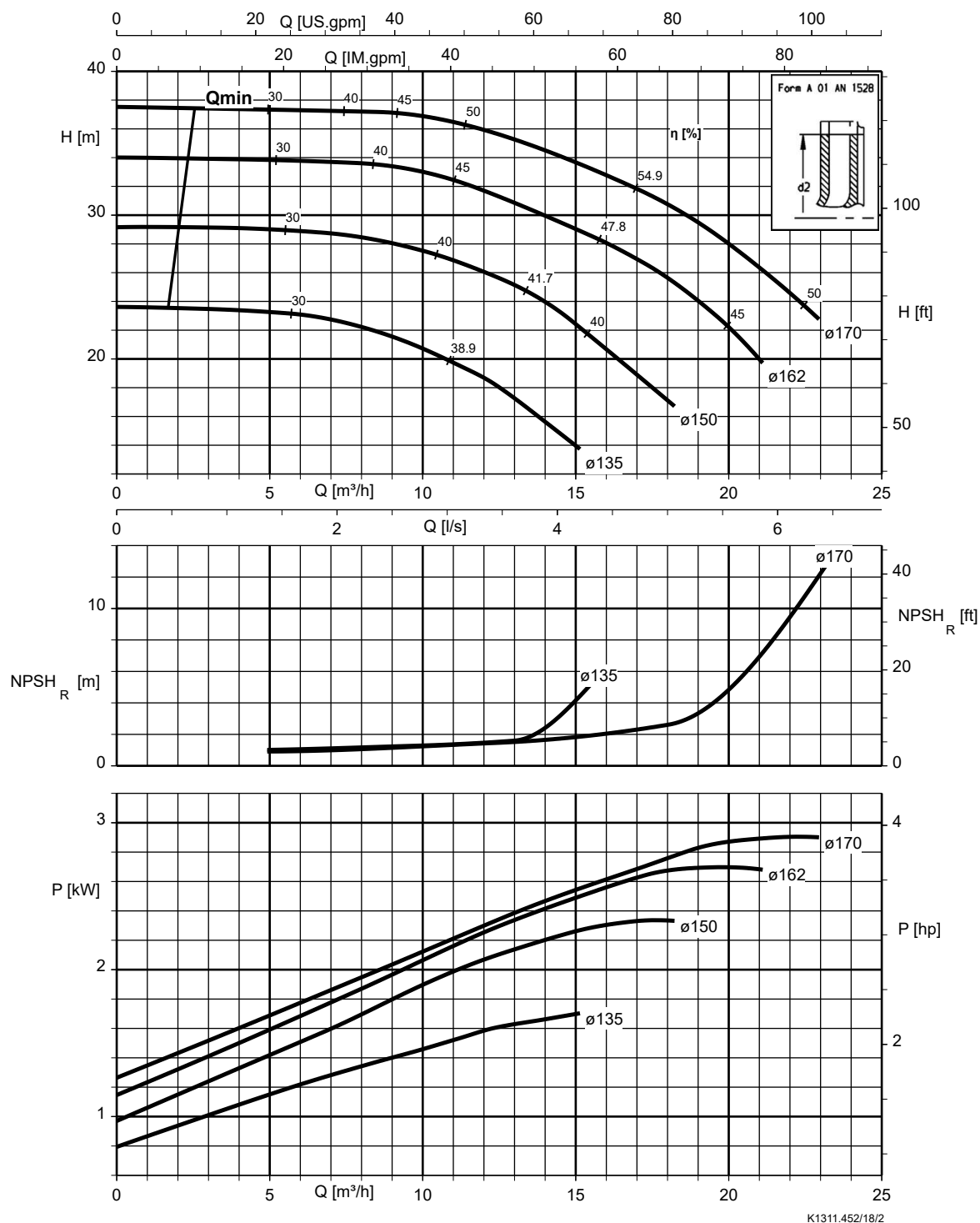
Etanorm 050-032-125.1,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



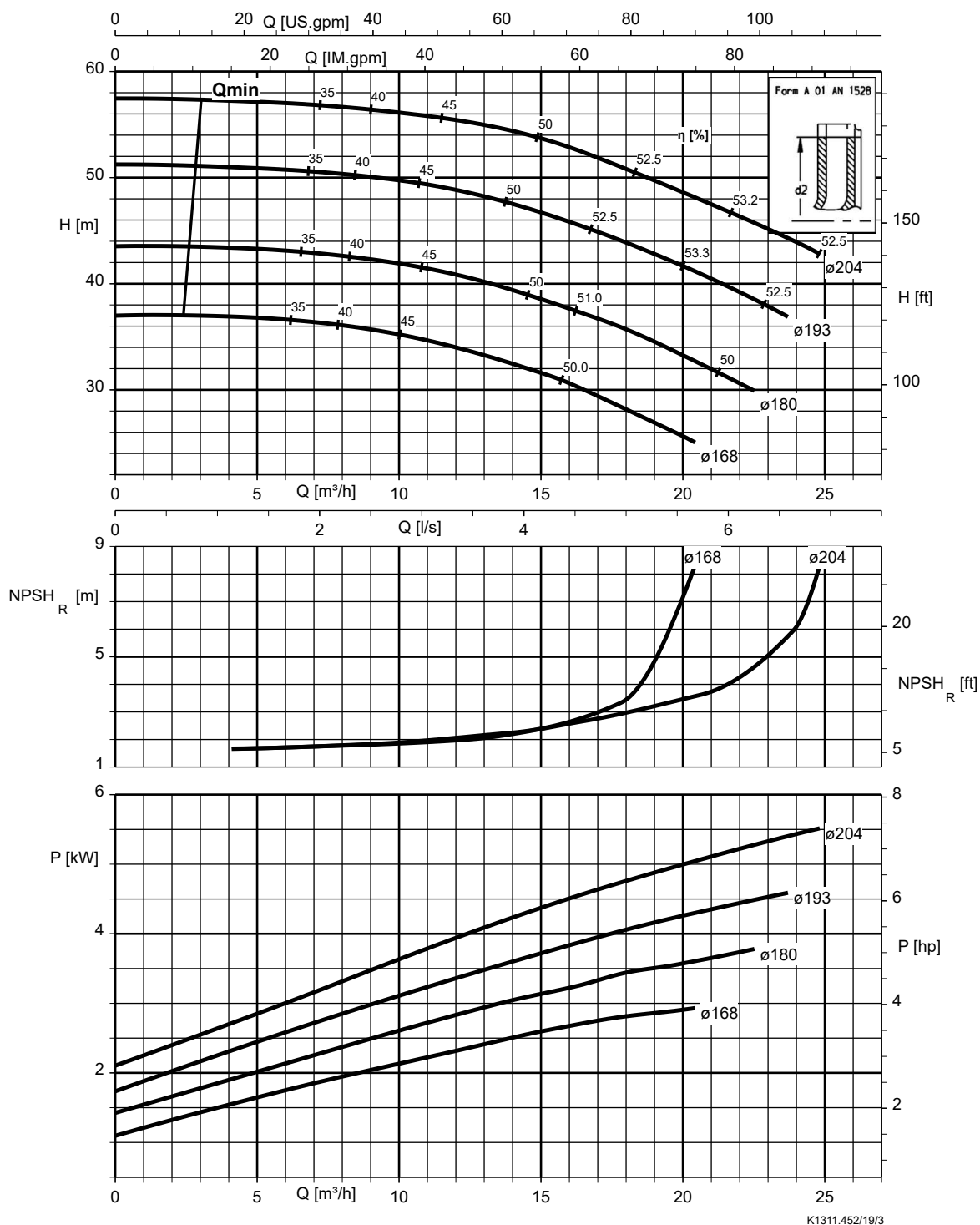
Etanorm 050-032-160.1,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



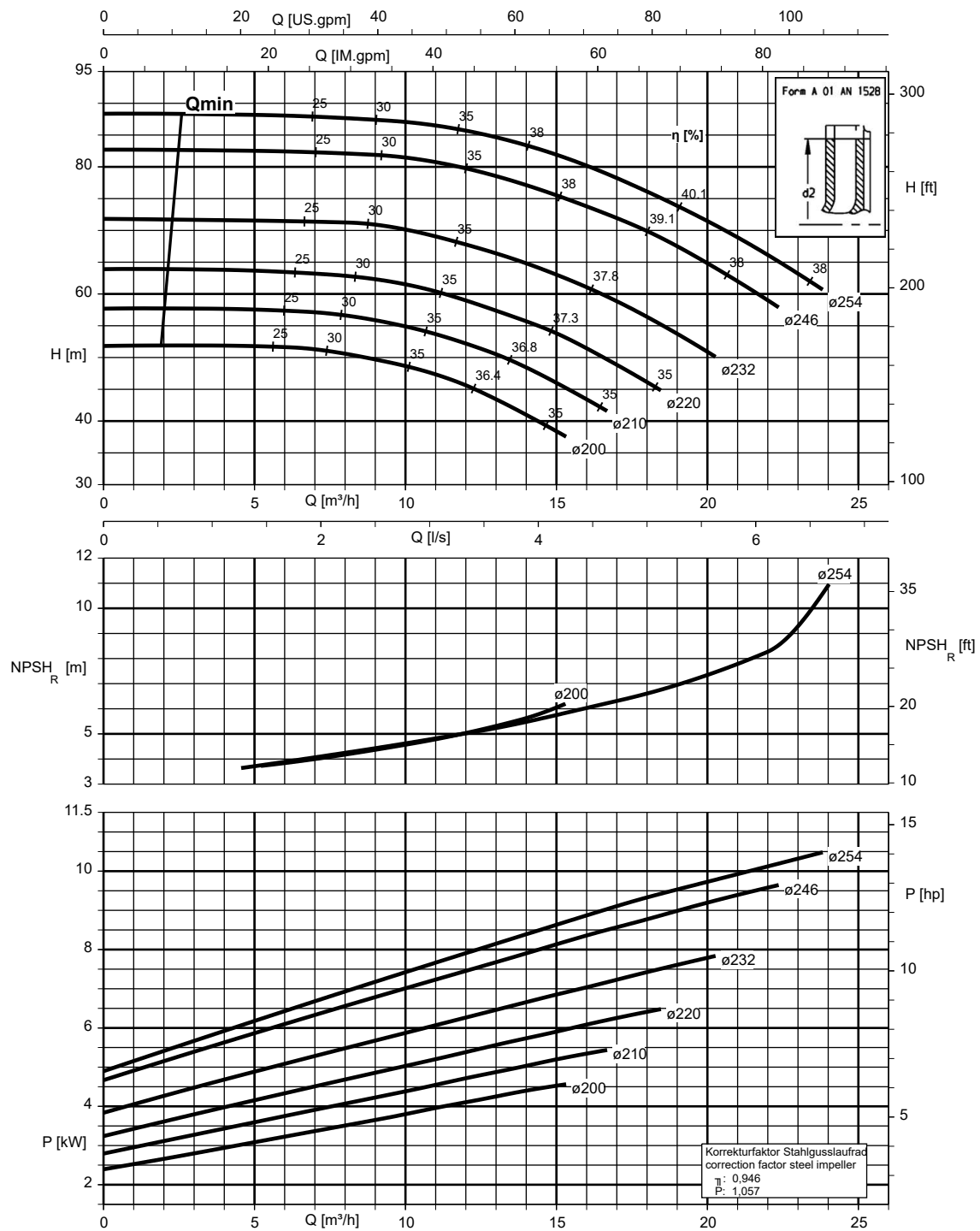
Etanorm 050-032-200.1,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 050-032-250.1,  $n = 2900 \text{ min}^{-1}$

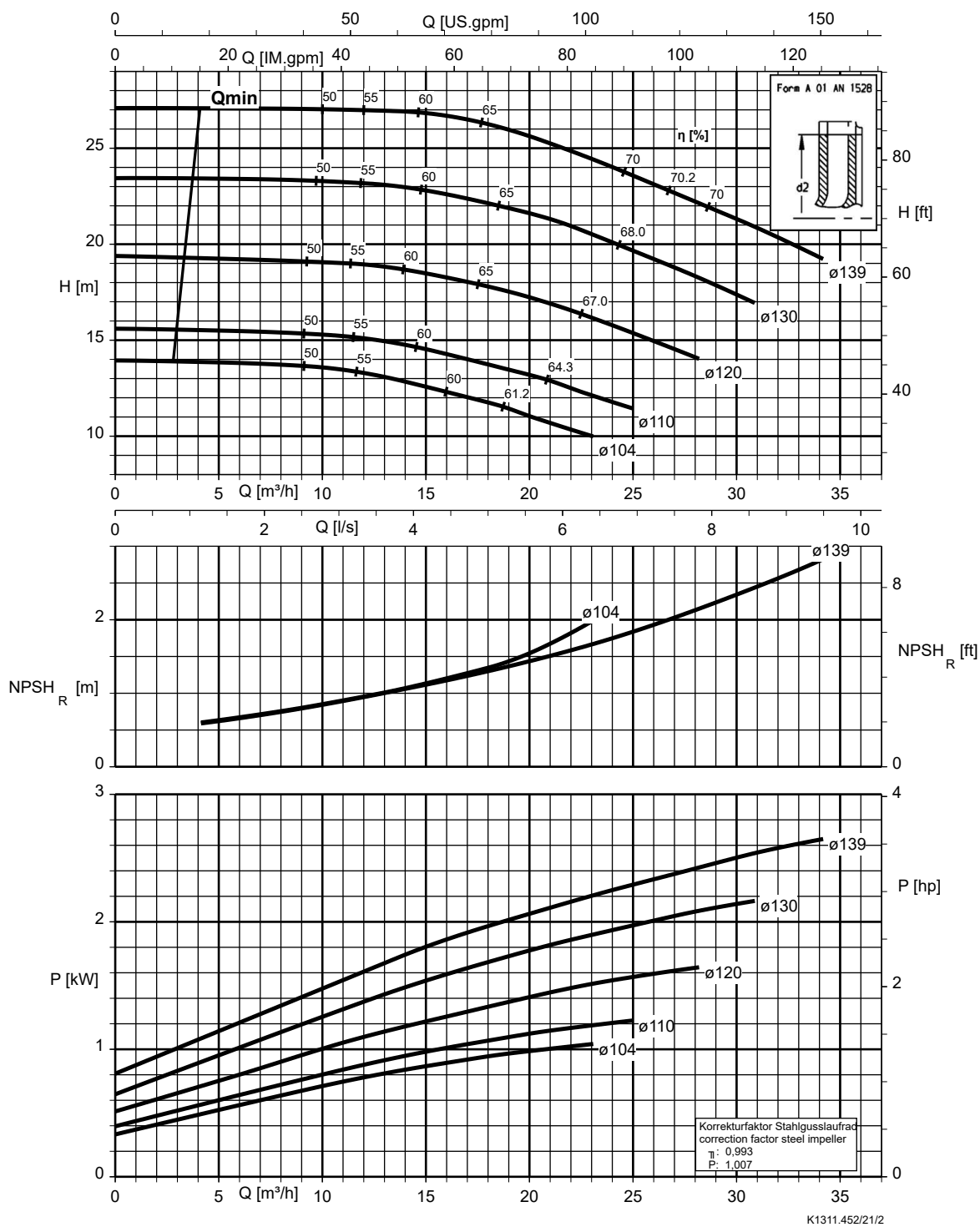
Etanorm V, Etabloc



K1311.452/20/2

Etanorm 050-032-125,  $n = 2900 \text{ min}^{-1}$

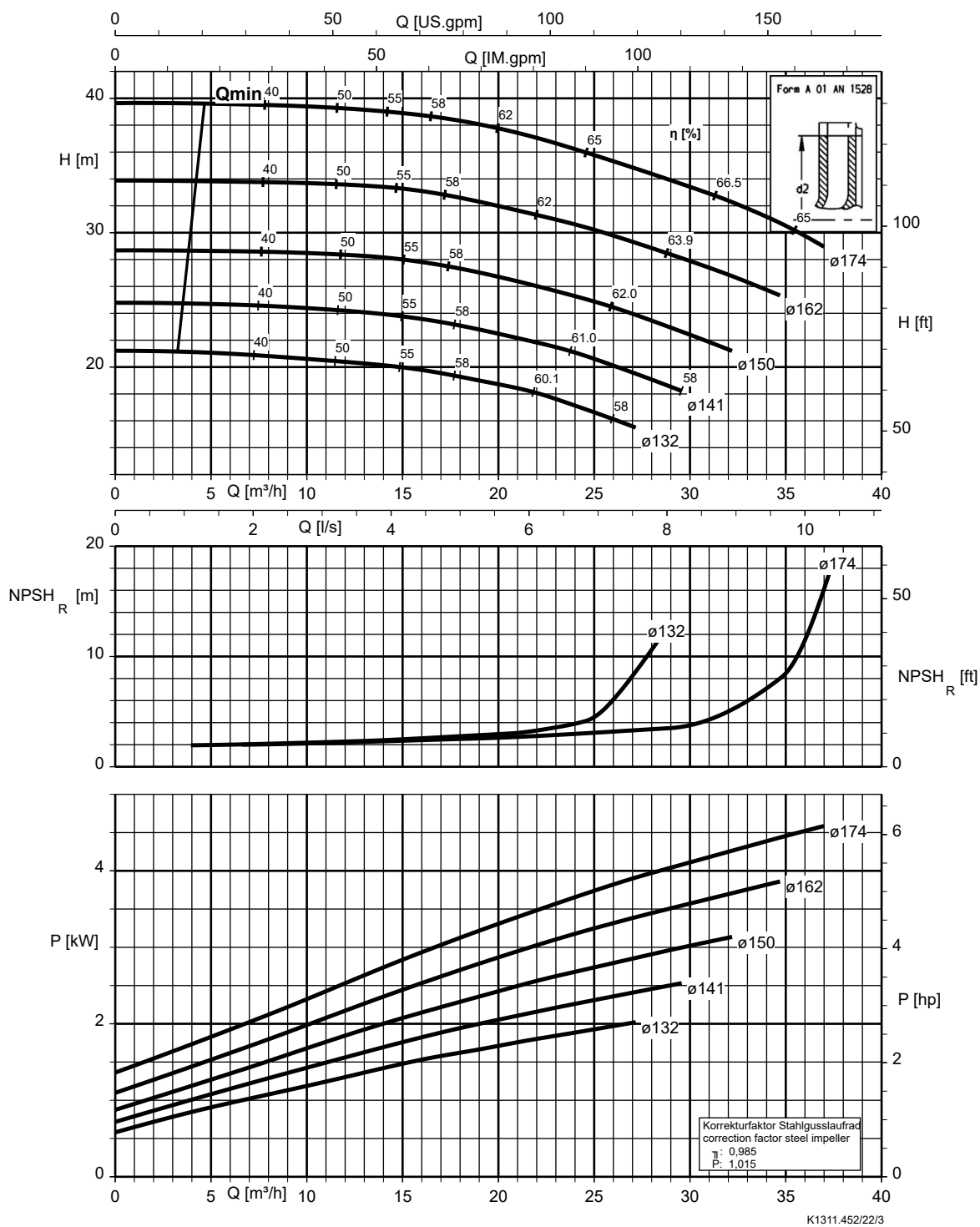
Etanorm V, Etabloc



K1311.452/21/2

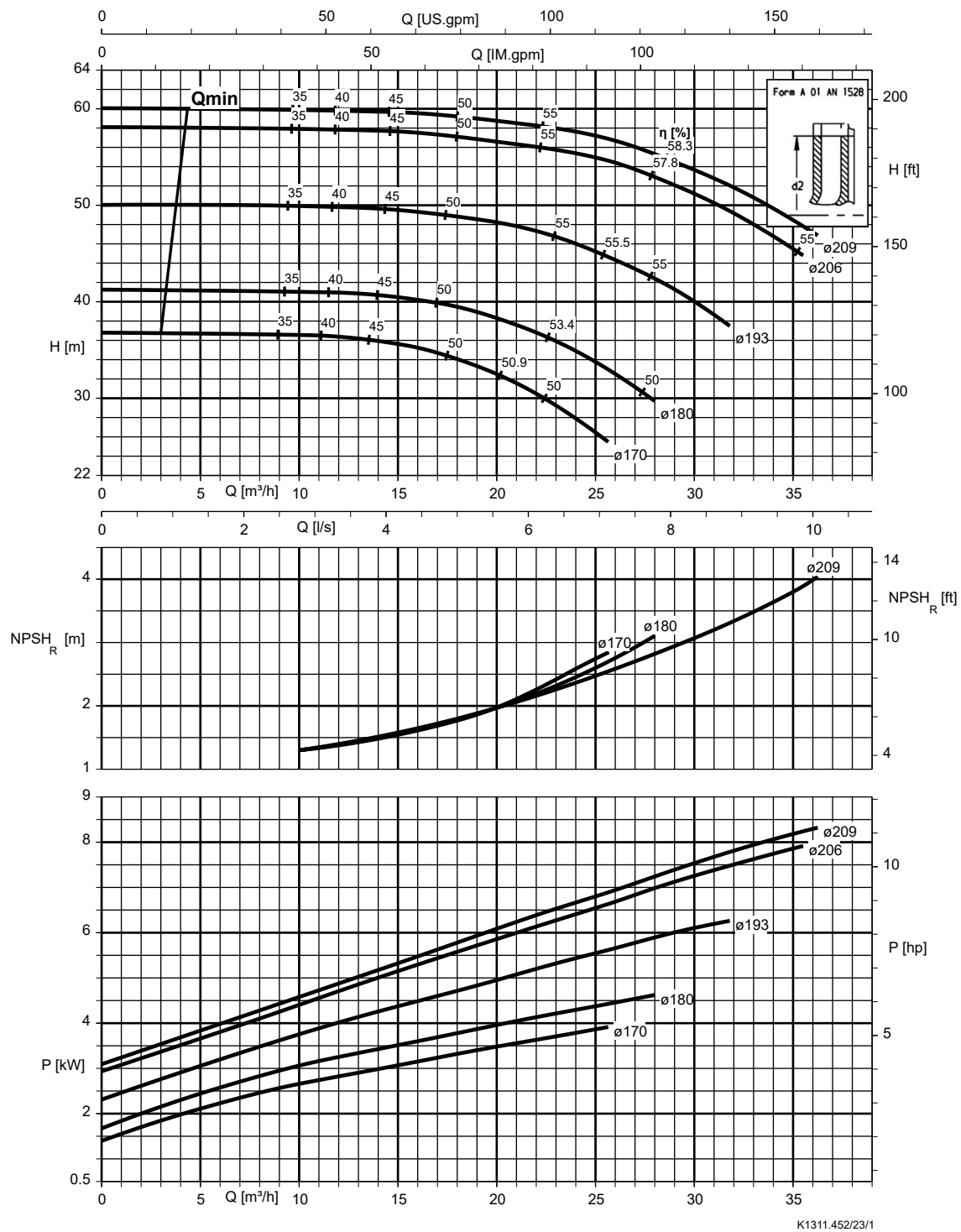
Etanorm 050-032-160,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



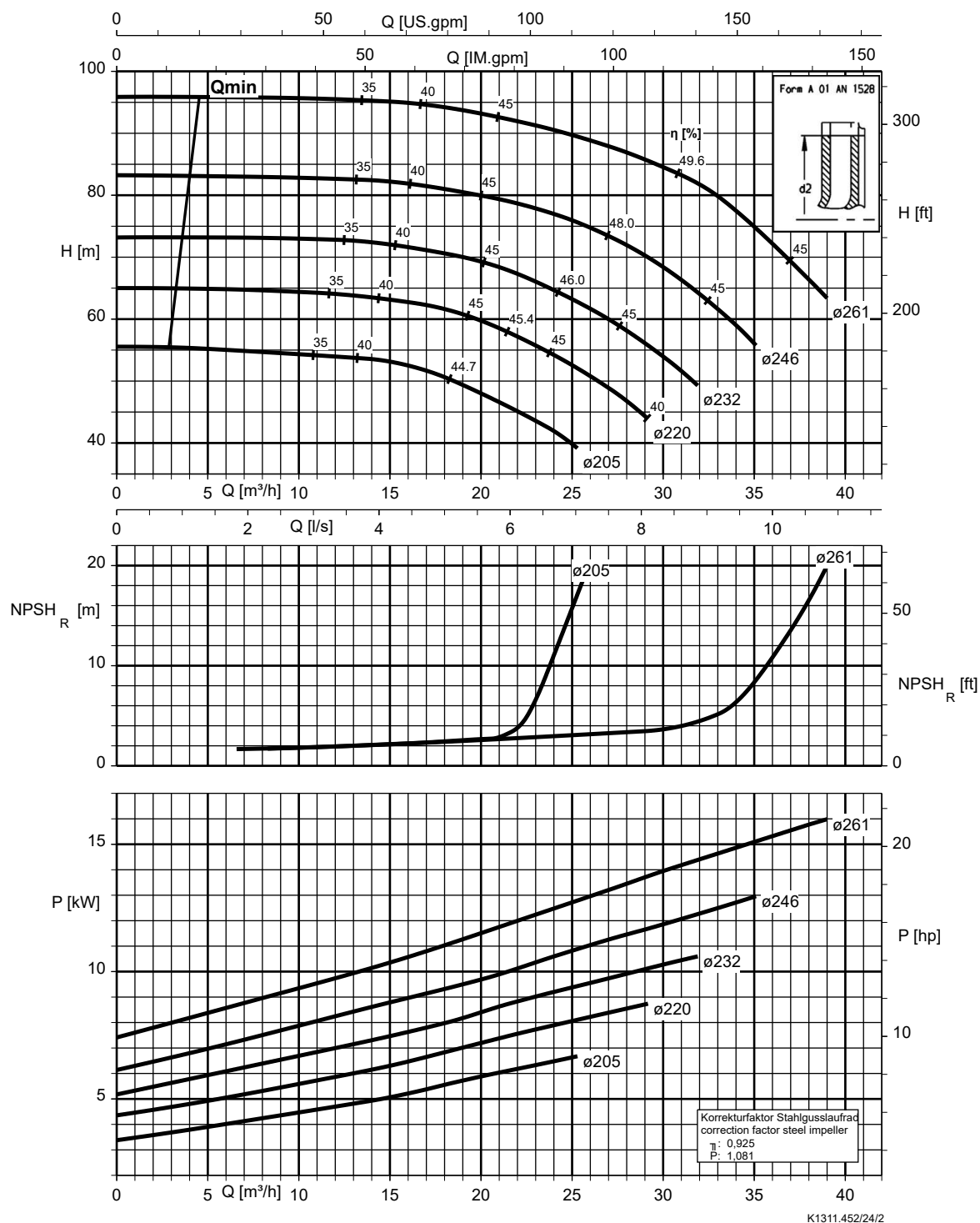
Etanorm 050-032-200,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



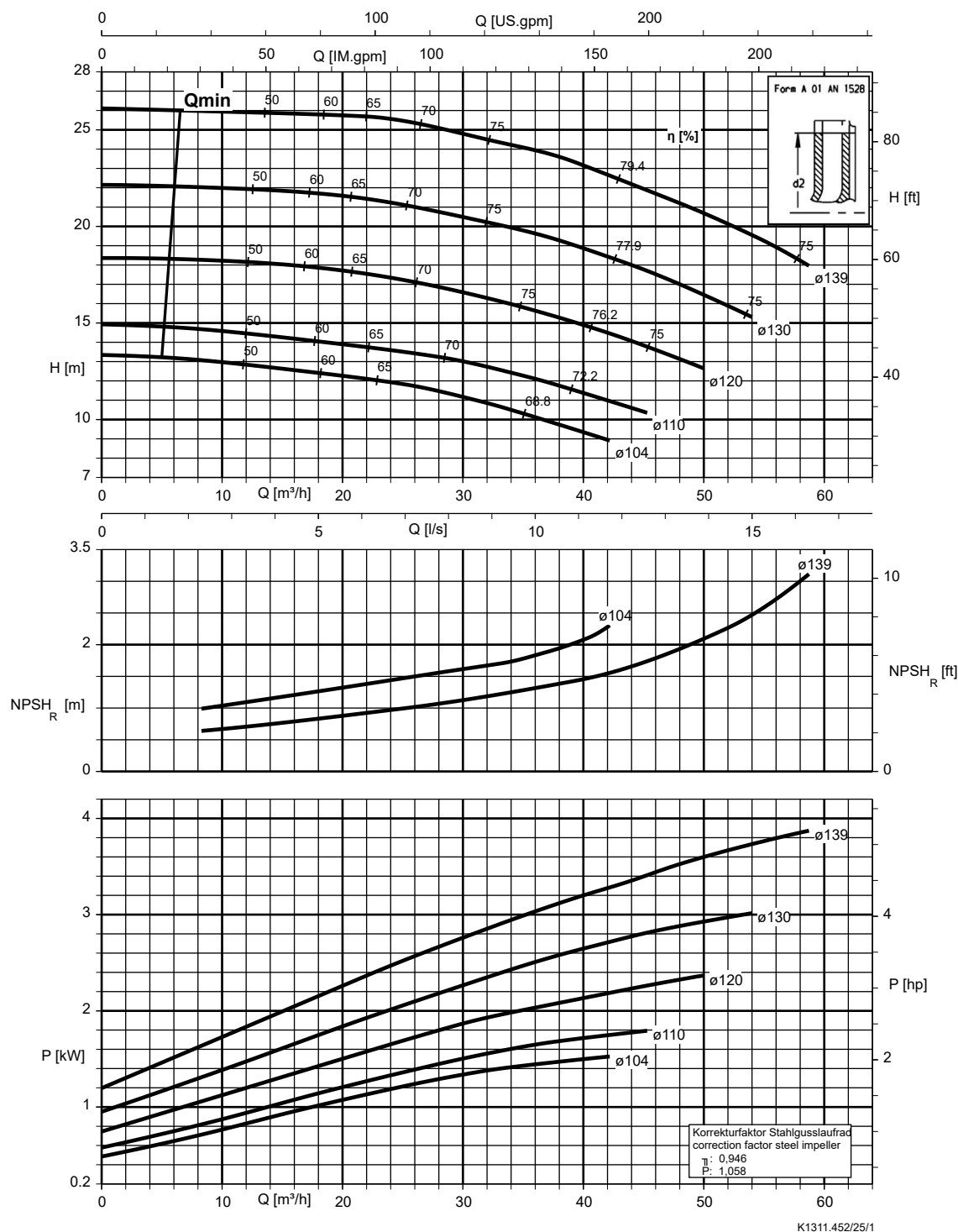
Etanorm 050-032-250,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



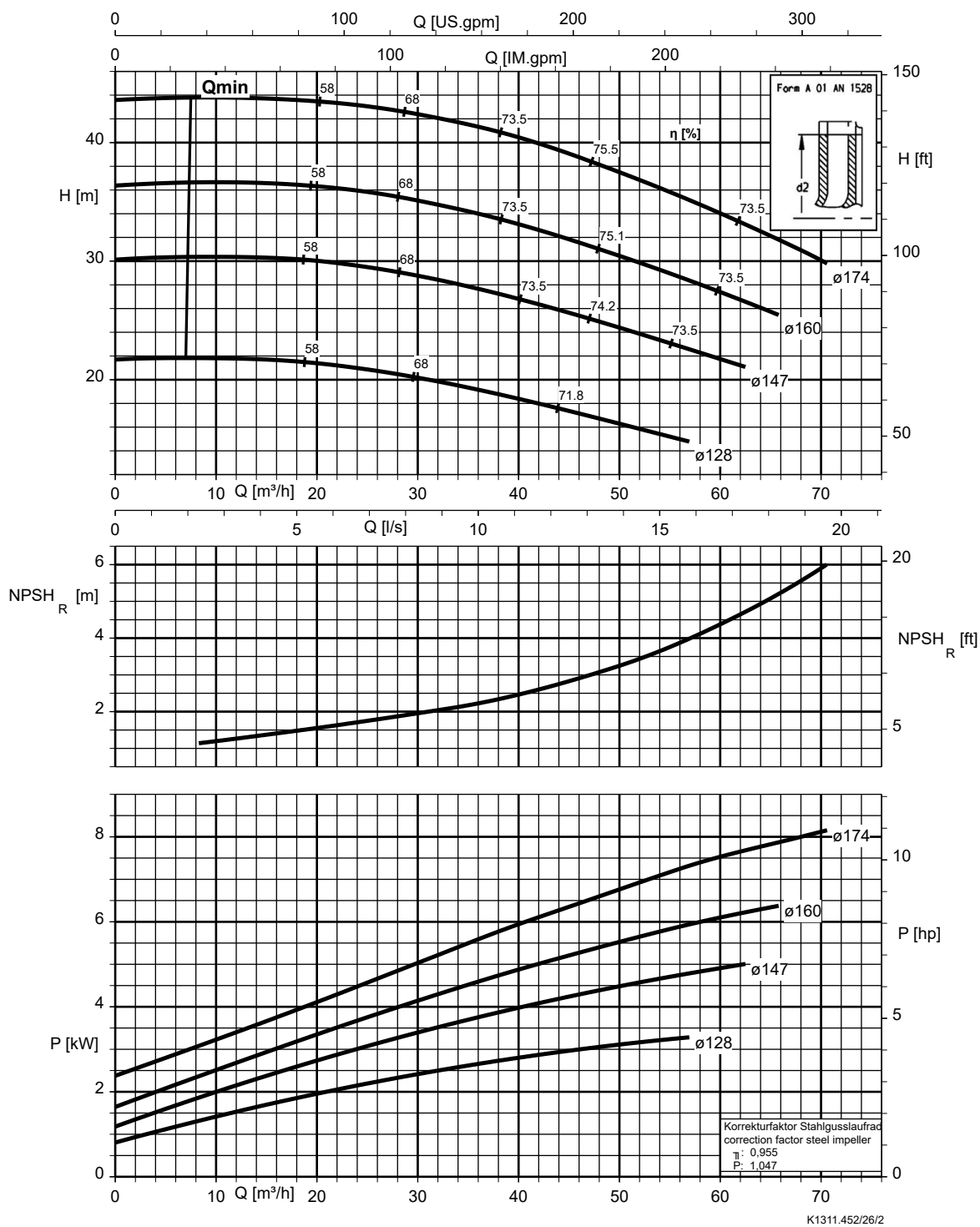
Etanorm 065-040-125,  $n = 2900 \text{ min}^{-1}$

Etanorm V, Etabloc



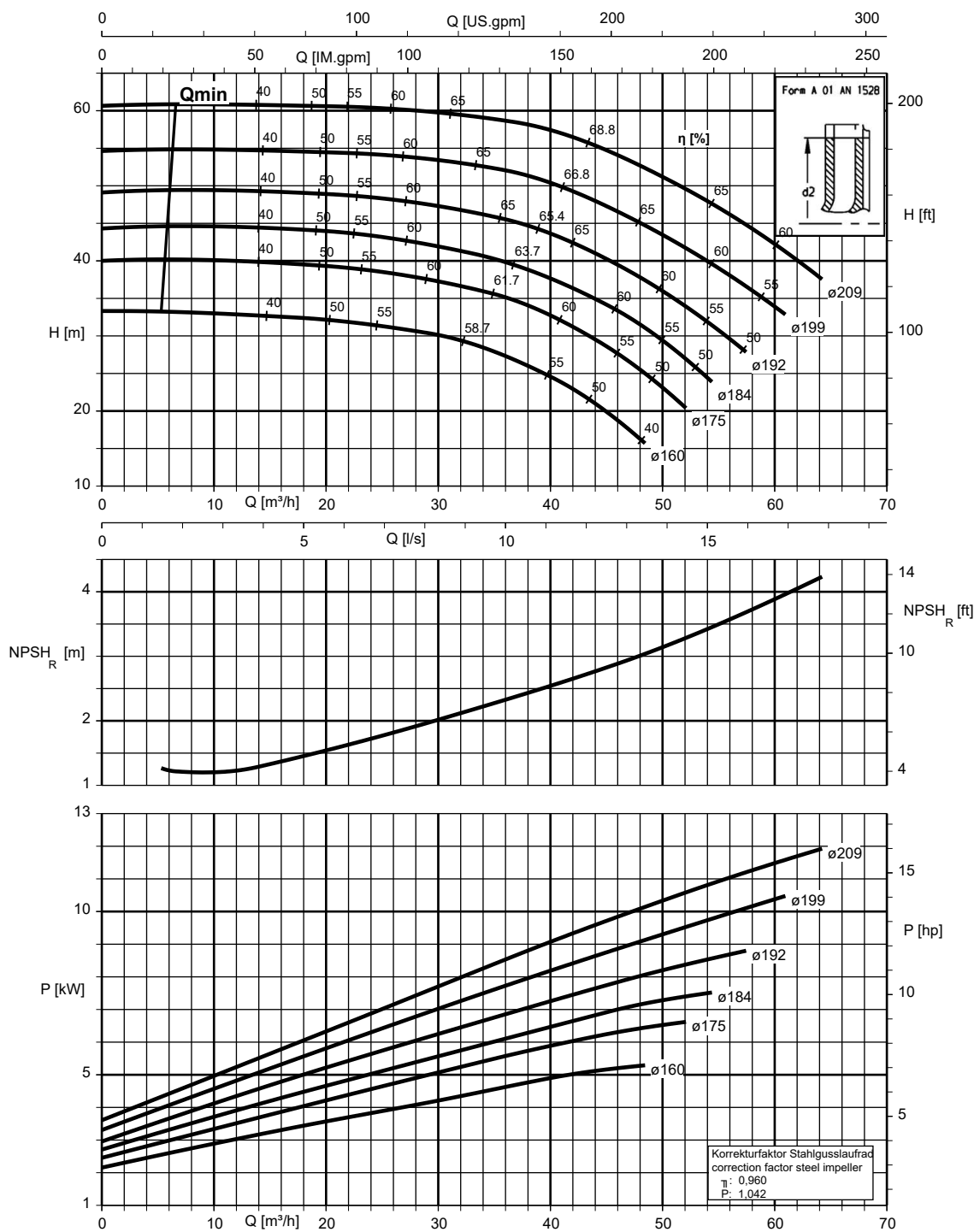
Etanorm 065-040-160,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 065-040-200,  $n = 2900 \text{ min}^{-1}$

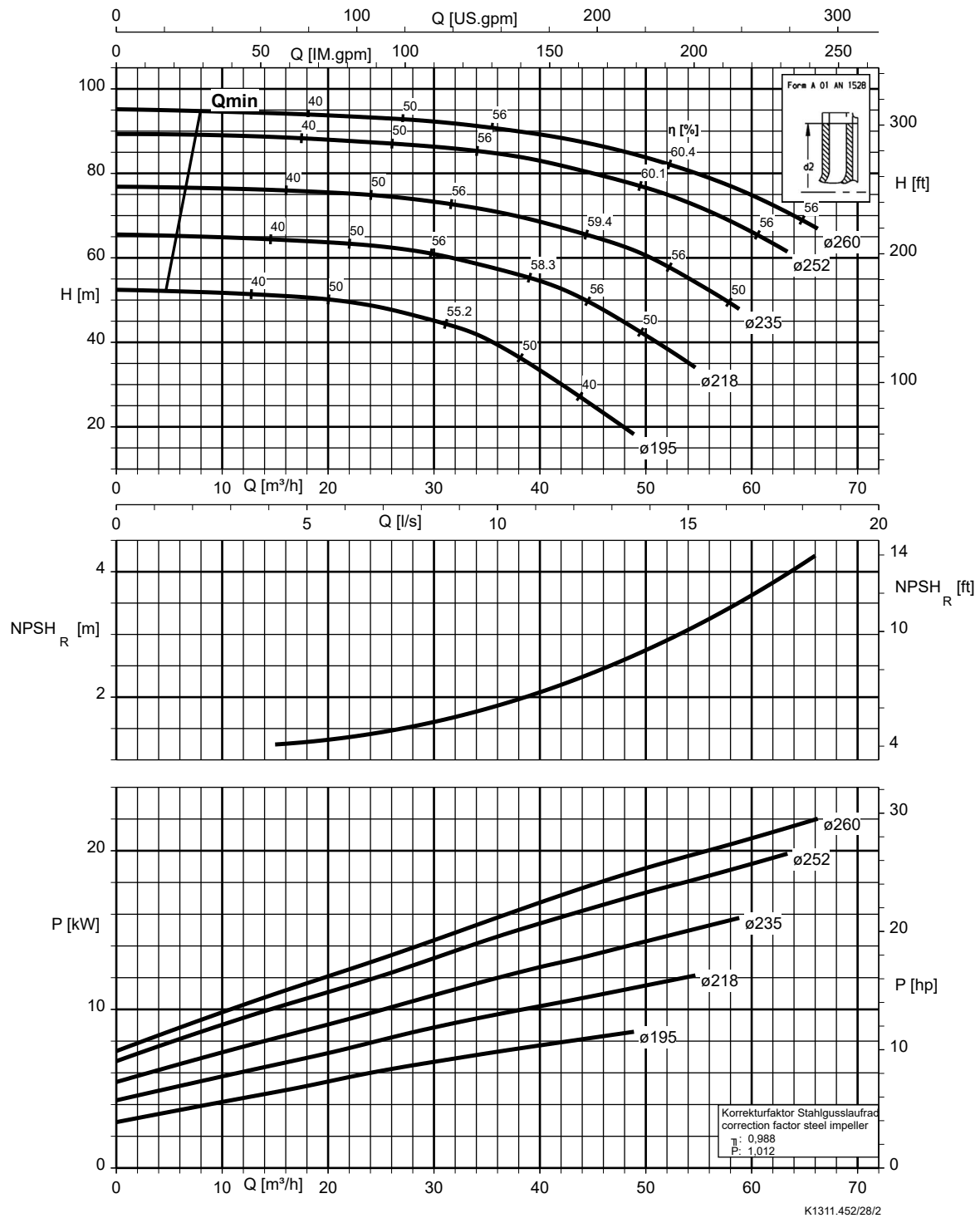
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



K1311.452/27/1

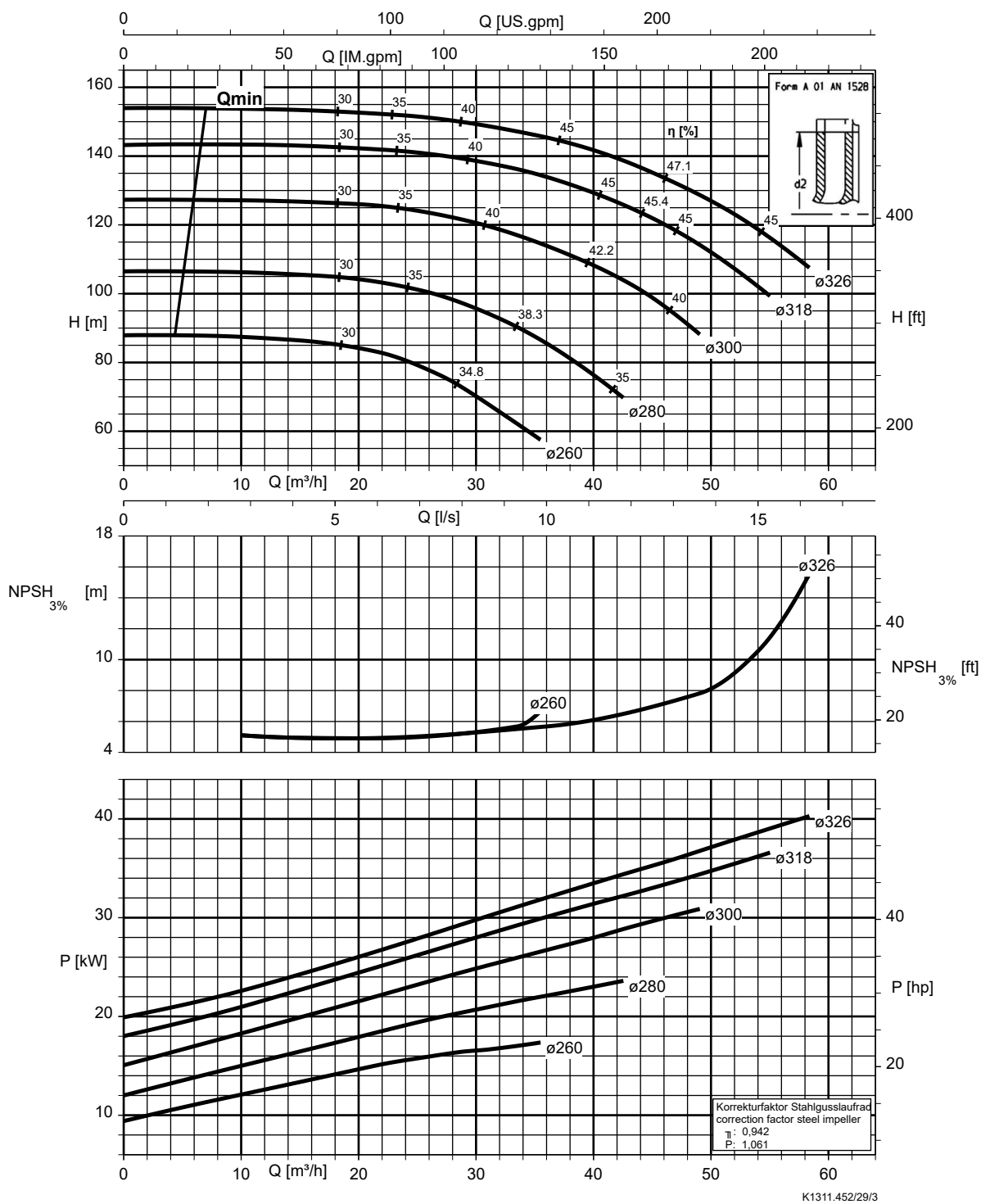
Etanorm 065-040-250,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



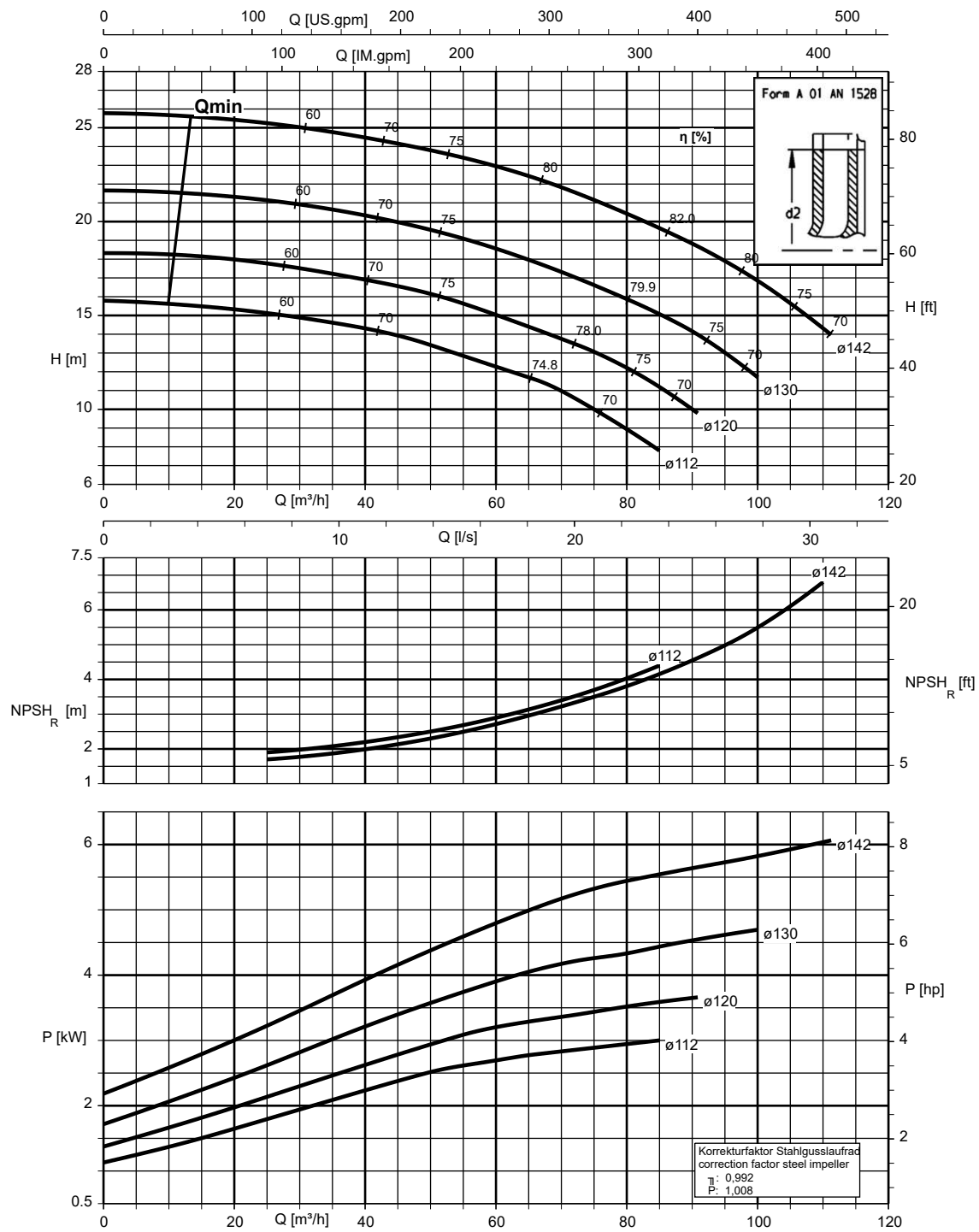
Etanorm 065-040-315,  $n = 2900 \text{ min}^{-1}$

Etabloc



Etanorm 065-050-125,  $n = 2900 \text{ min}^{-1}$

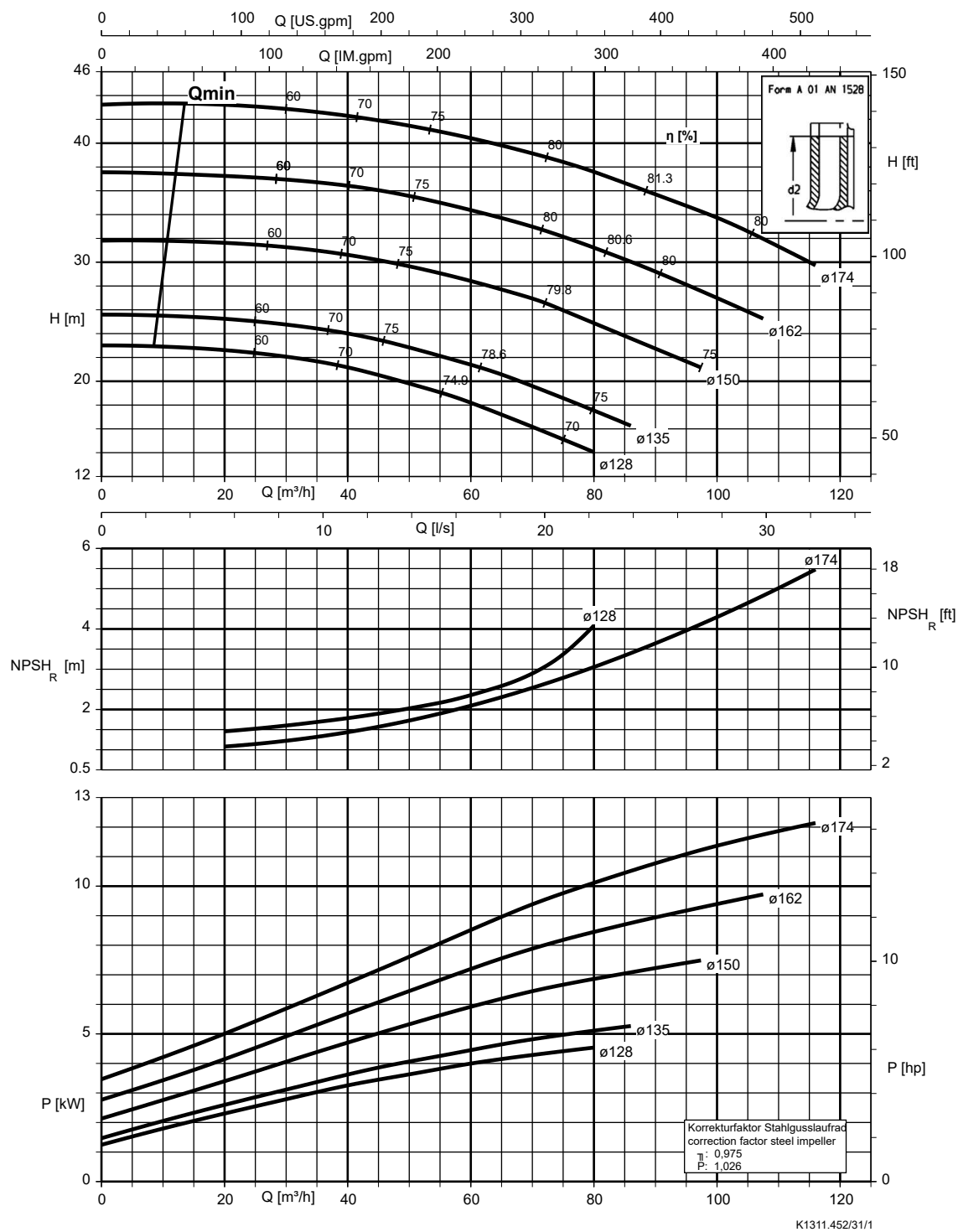
Etanorm V, Etabloc



K1311.452/30/1

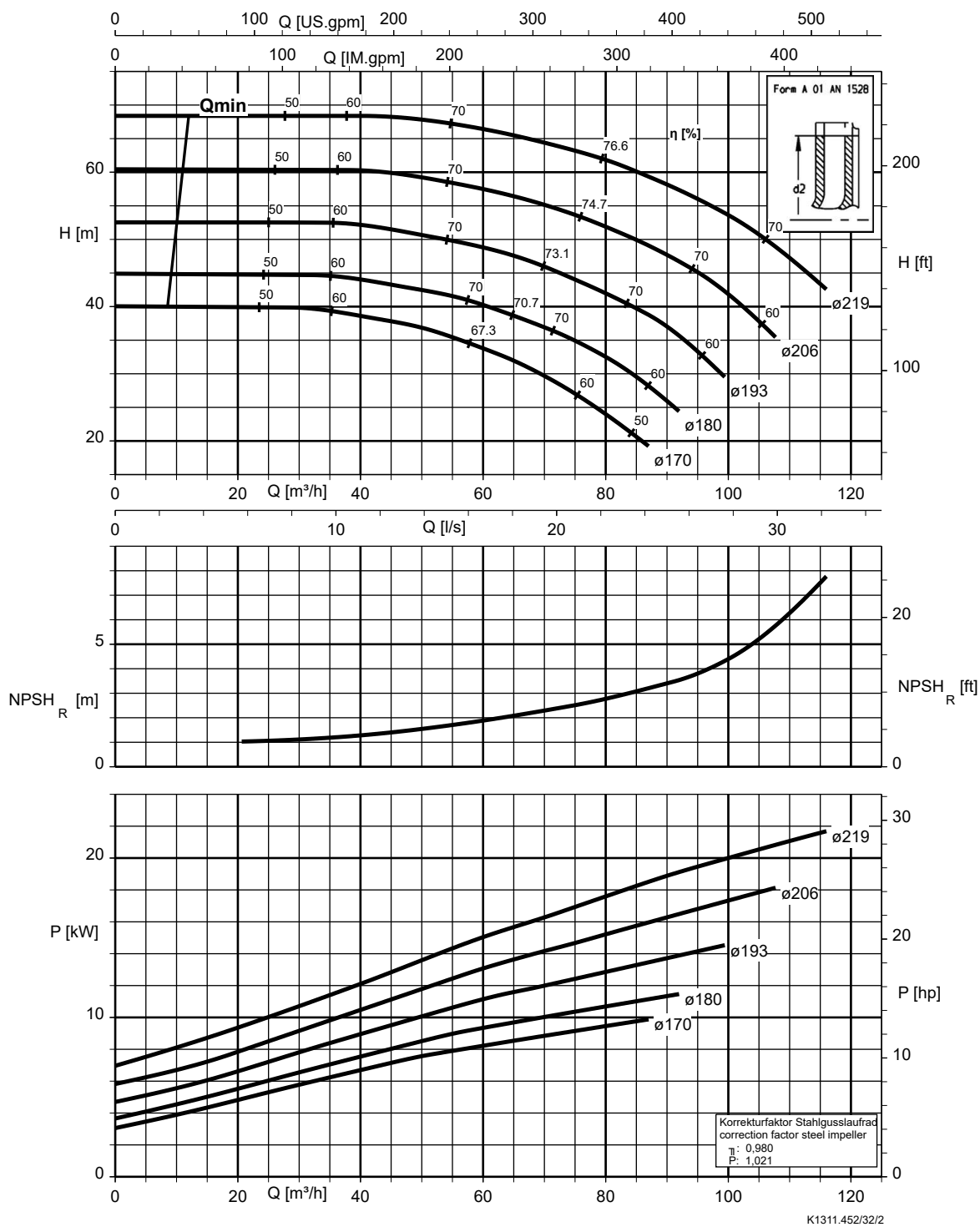
Etanorm 065-050-160,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



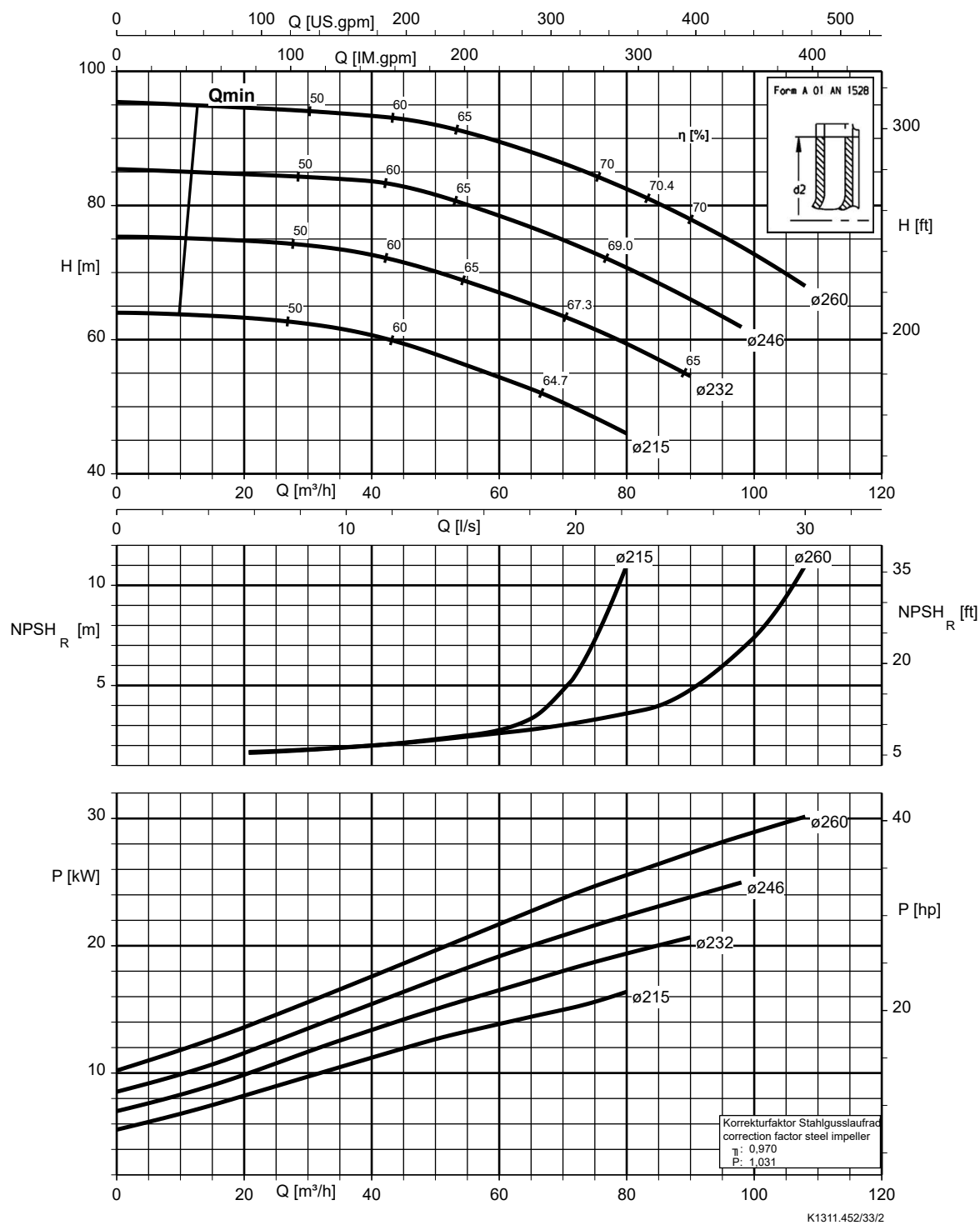
Etanorm 065-050-200,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



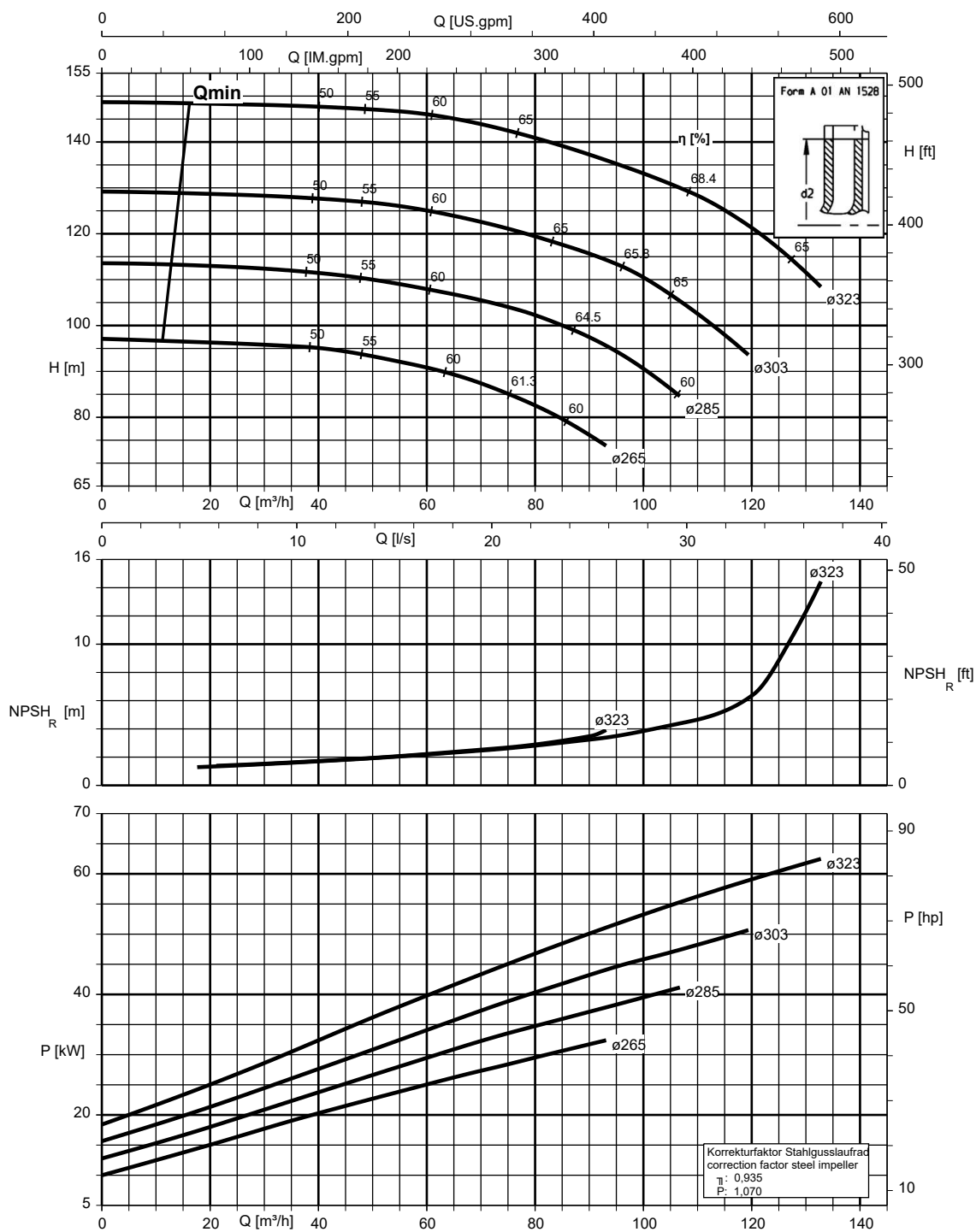
Etanorm 065-050-250,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



Etanorm 065-050-315,  $n = 2900 \text{ min}^{-1}$

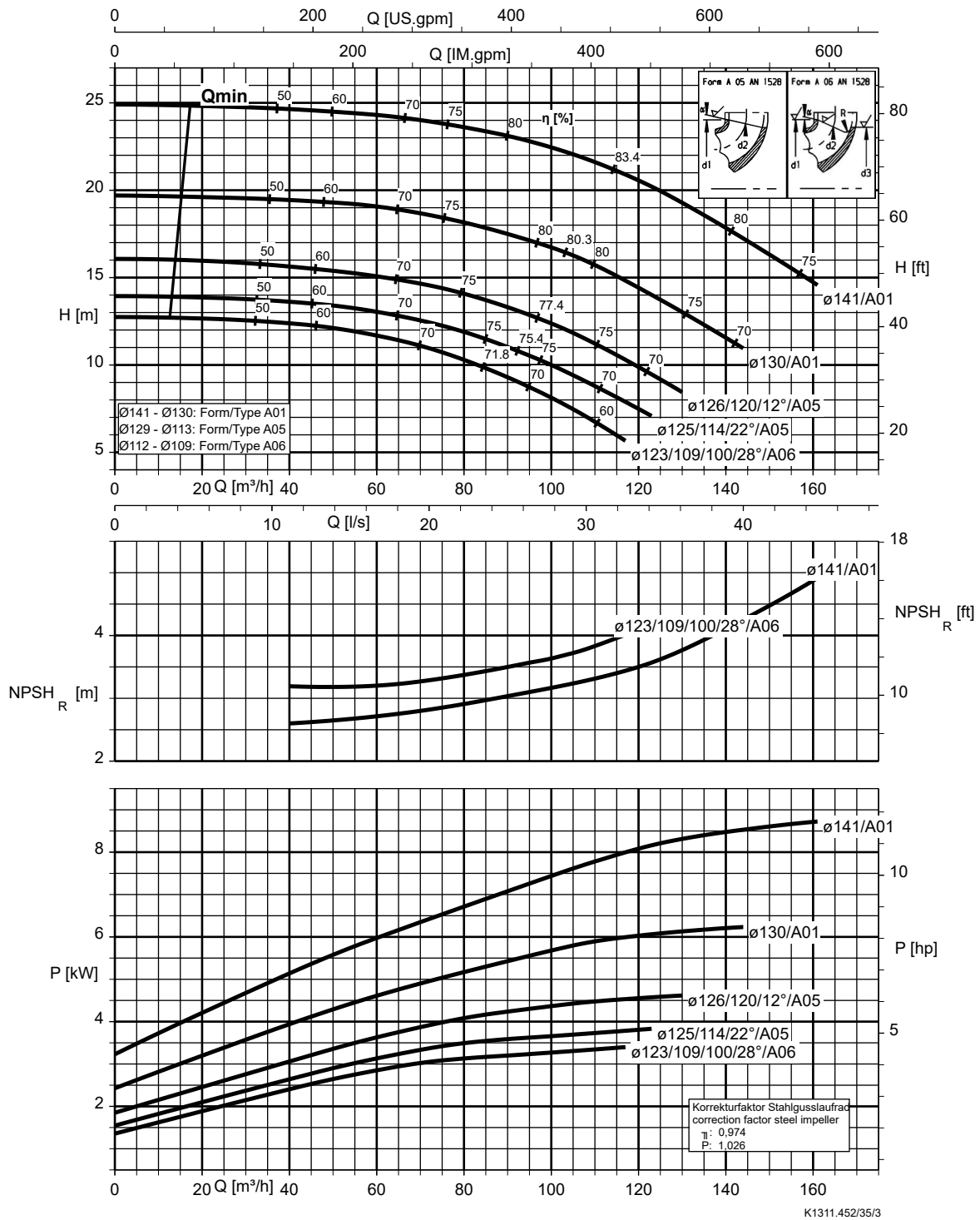
Etabloc



K1311.452/34/2

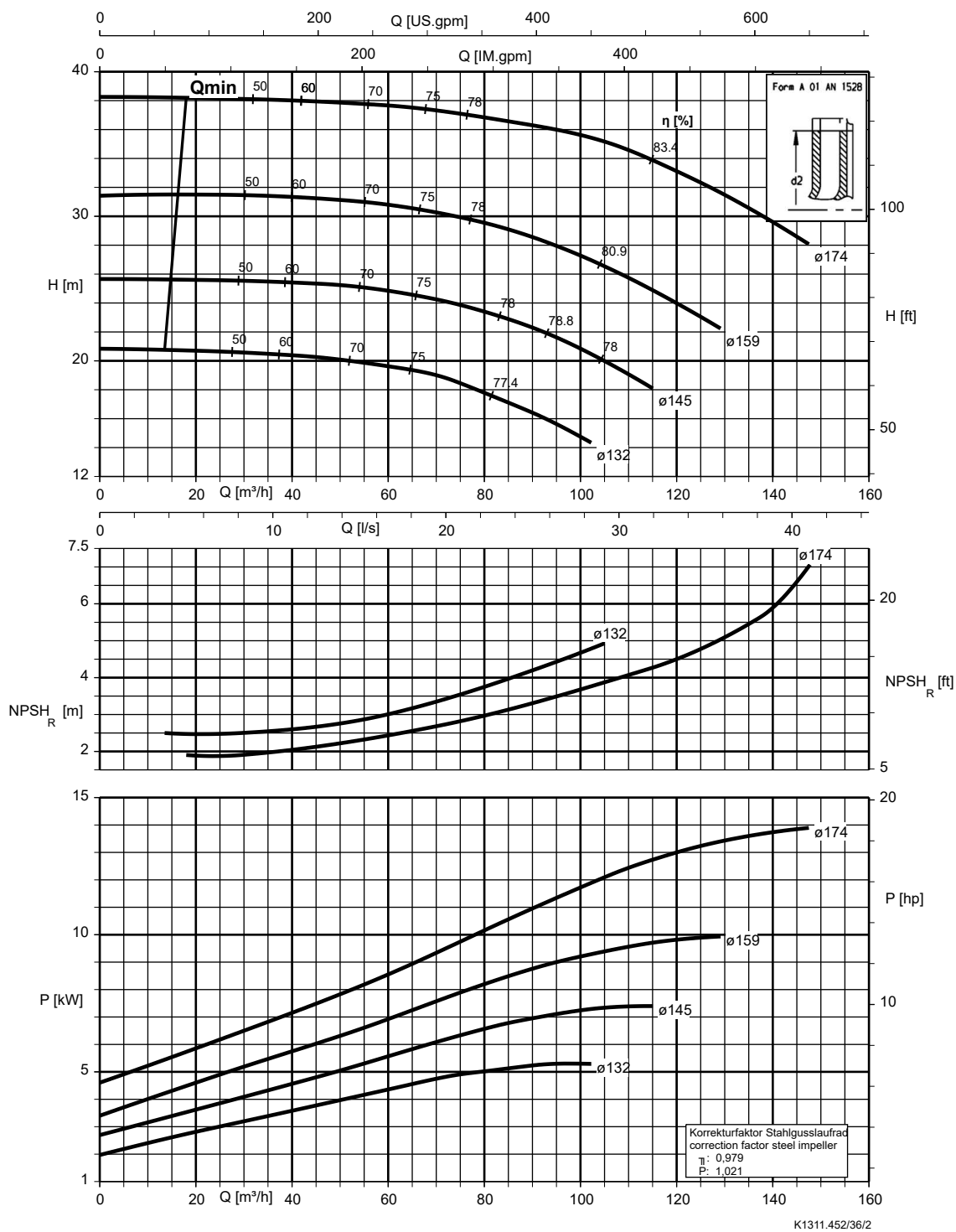
Etanorm 080-065-125,  $n = 2900 \text{ min}^{-1}$

Etanorm V, Etabloc



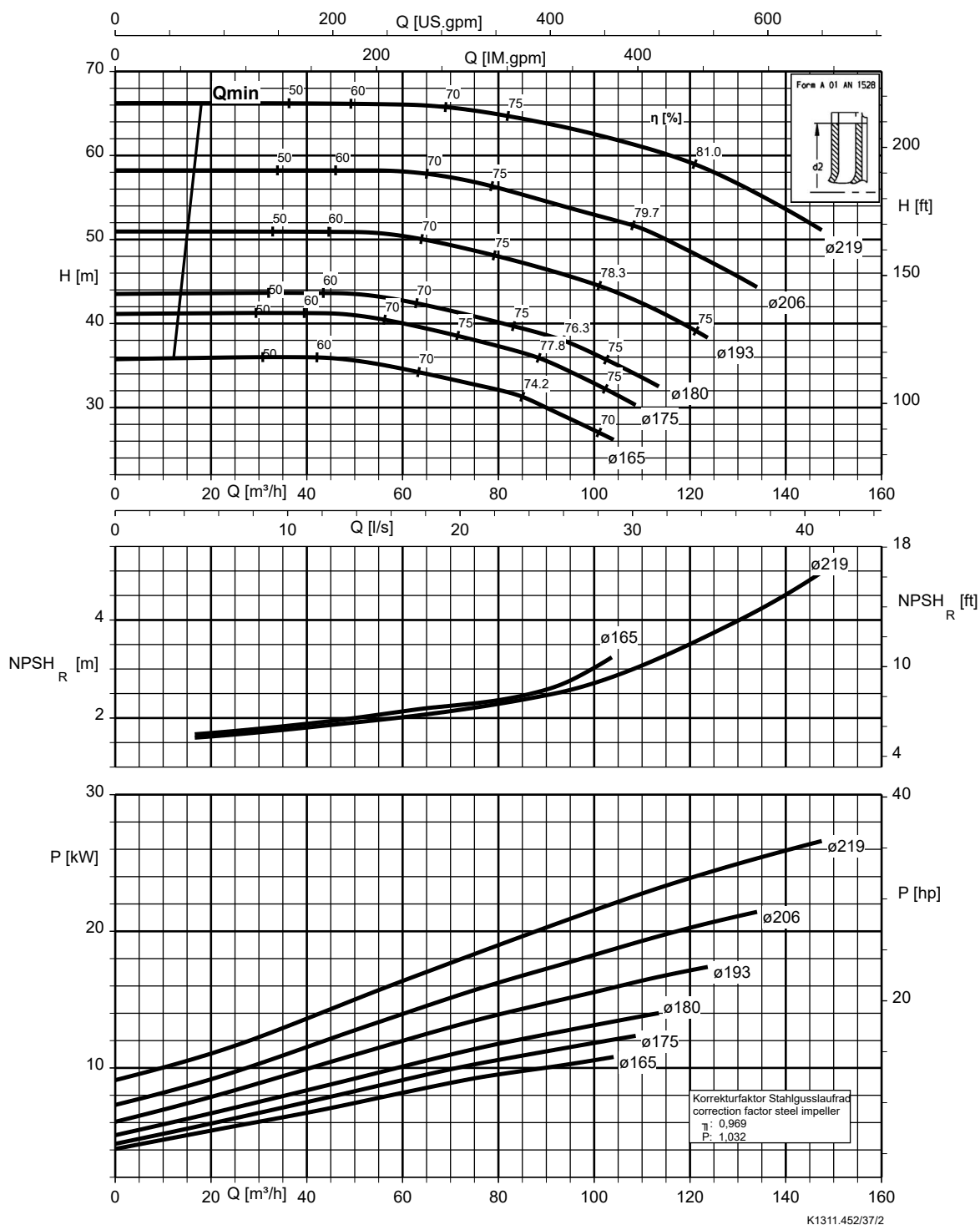
Etanorm 080-065-160,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



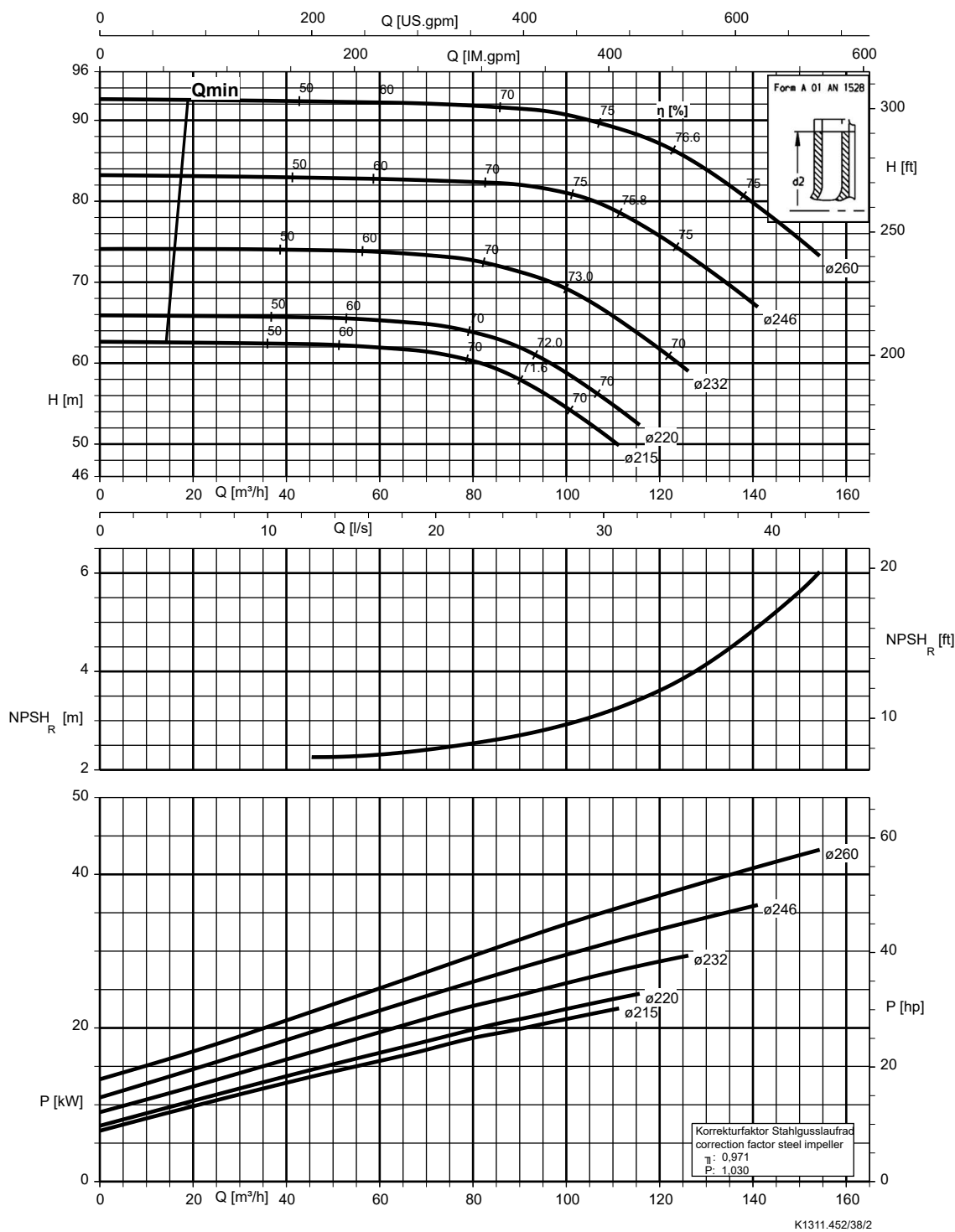
Etanorm 080-065-200,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



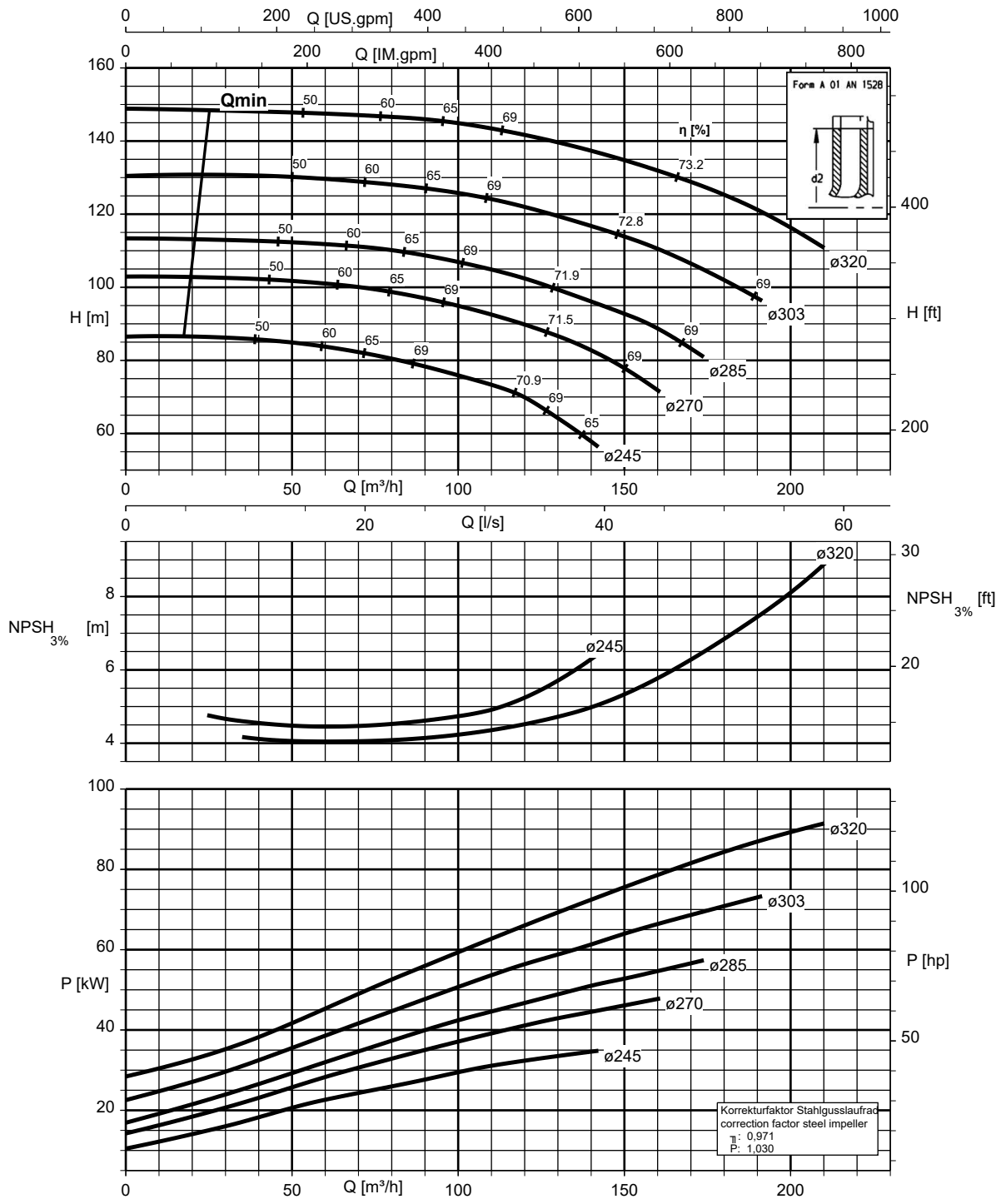
Etanorm 080-065-250,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



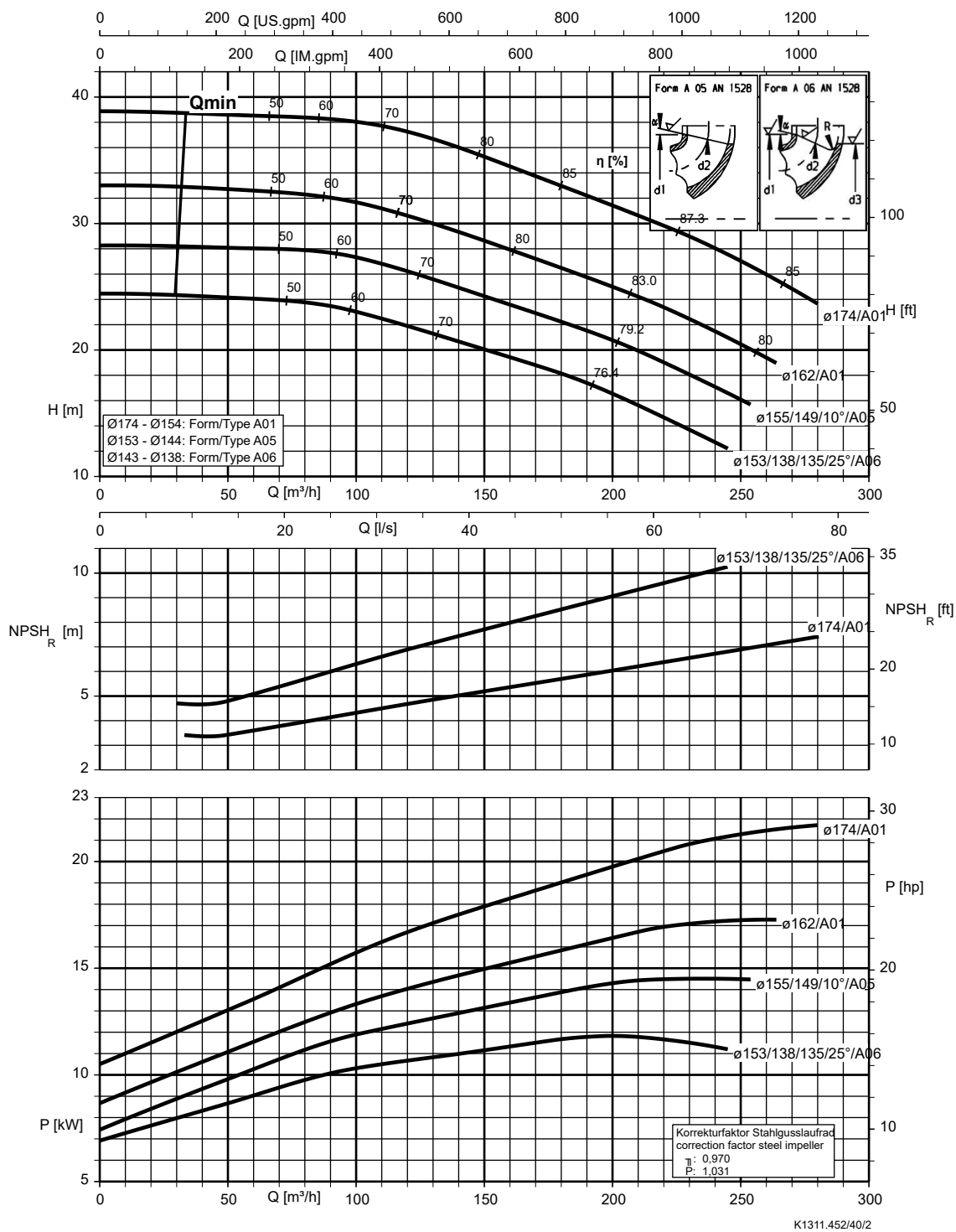
Etanorm 080-065-315,  $n = 2900 \text{ min}^{-1}$

Etabloc



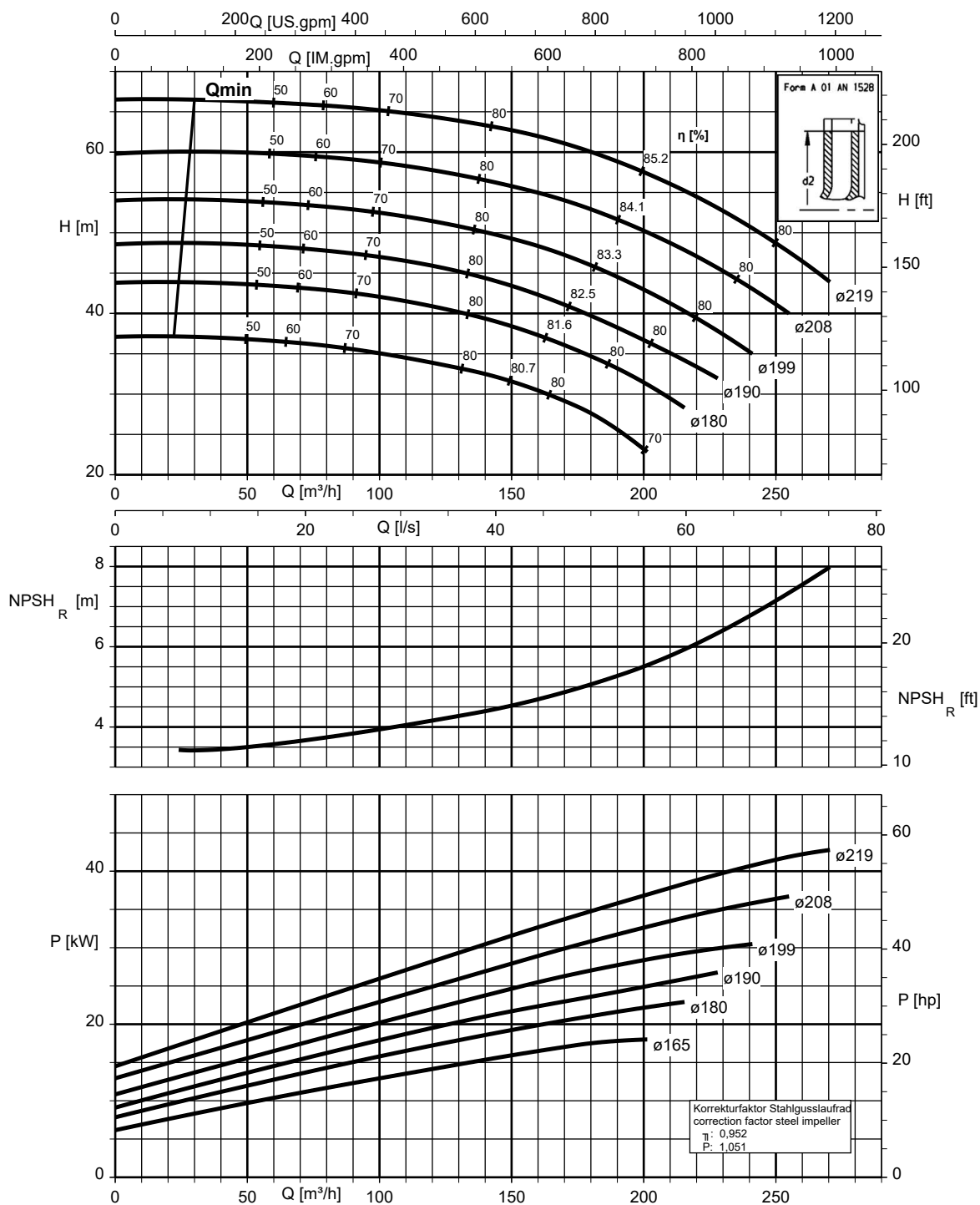
**Etanorm 100-080-160,  $n = 2900 \text{ min}^{-1}$**

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 100-080-200,  $n = 2900 \text{ min}^{-1}$

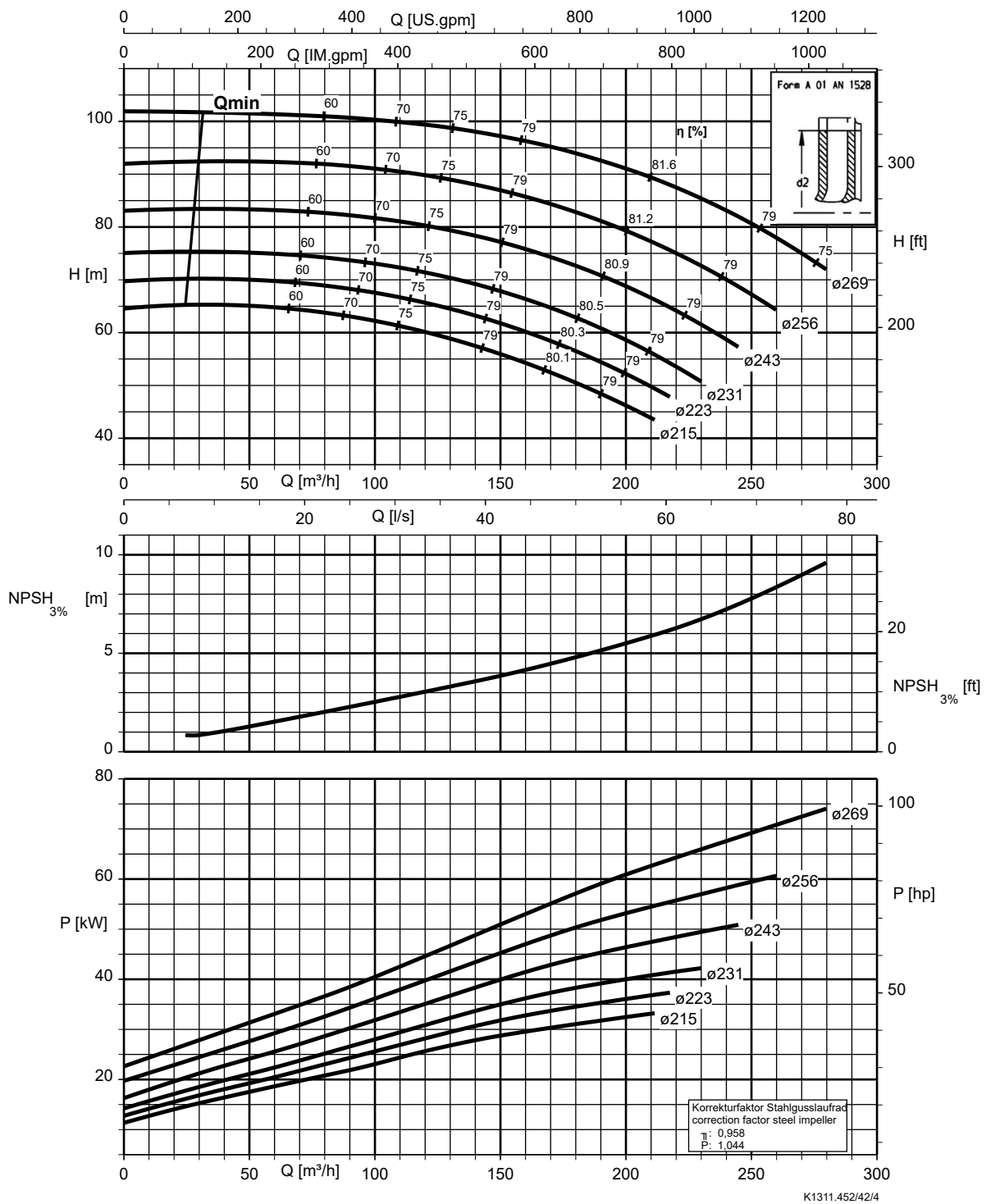
Etanorm SYT, Etanorm V, Etabloc



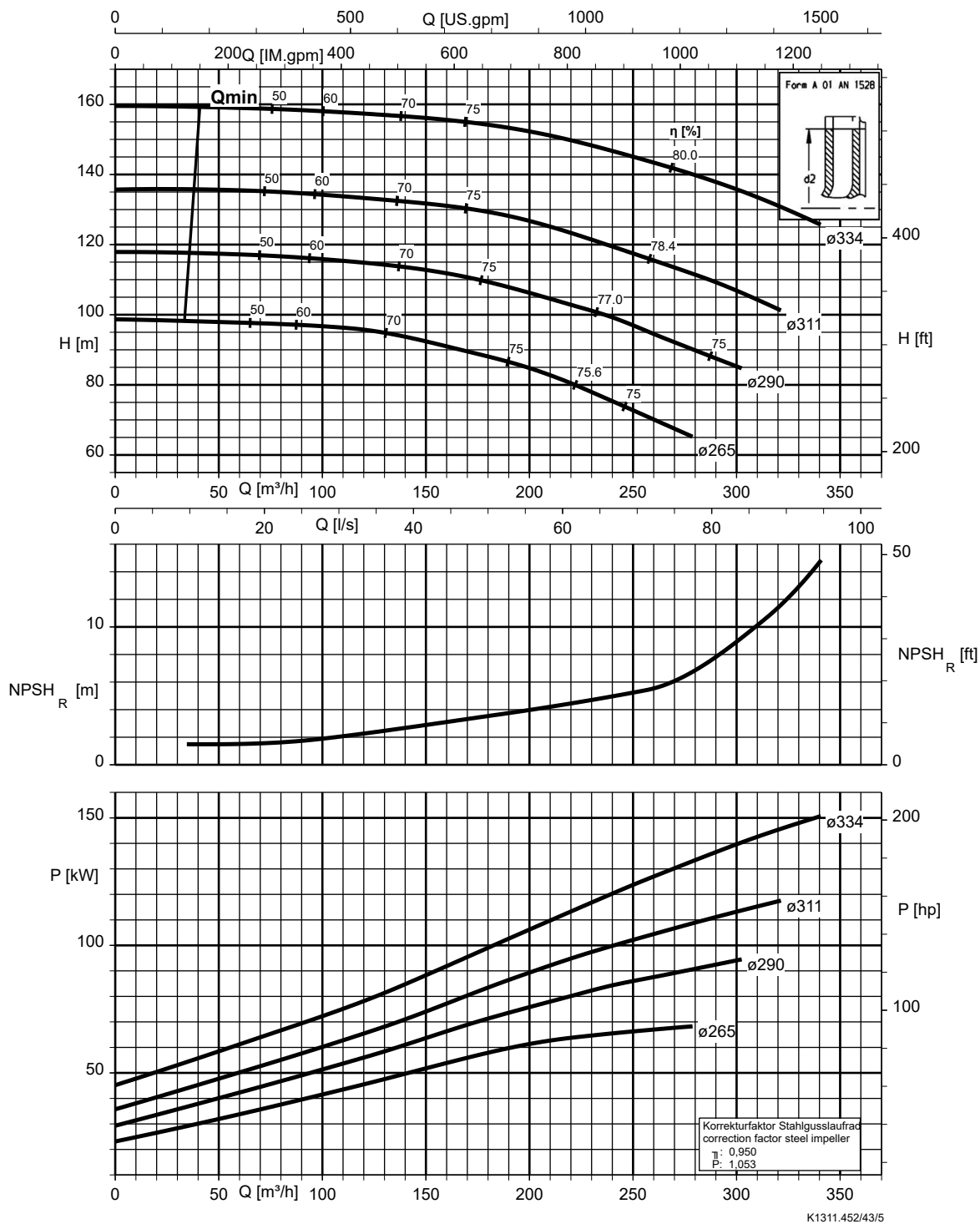
K1311.452/41/3

Etanorm 100-080-250,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc

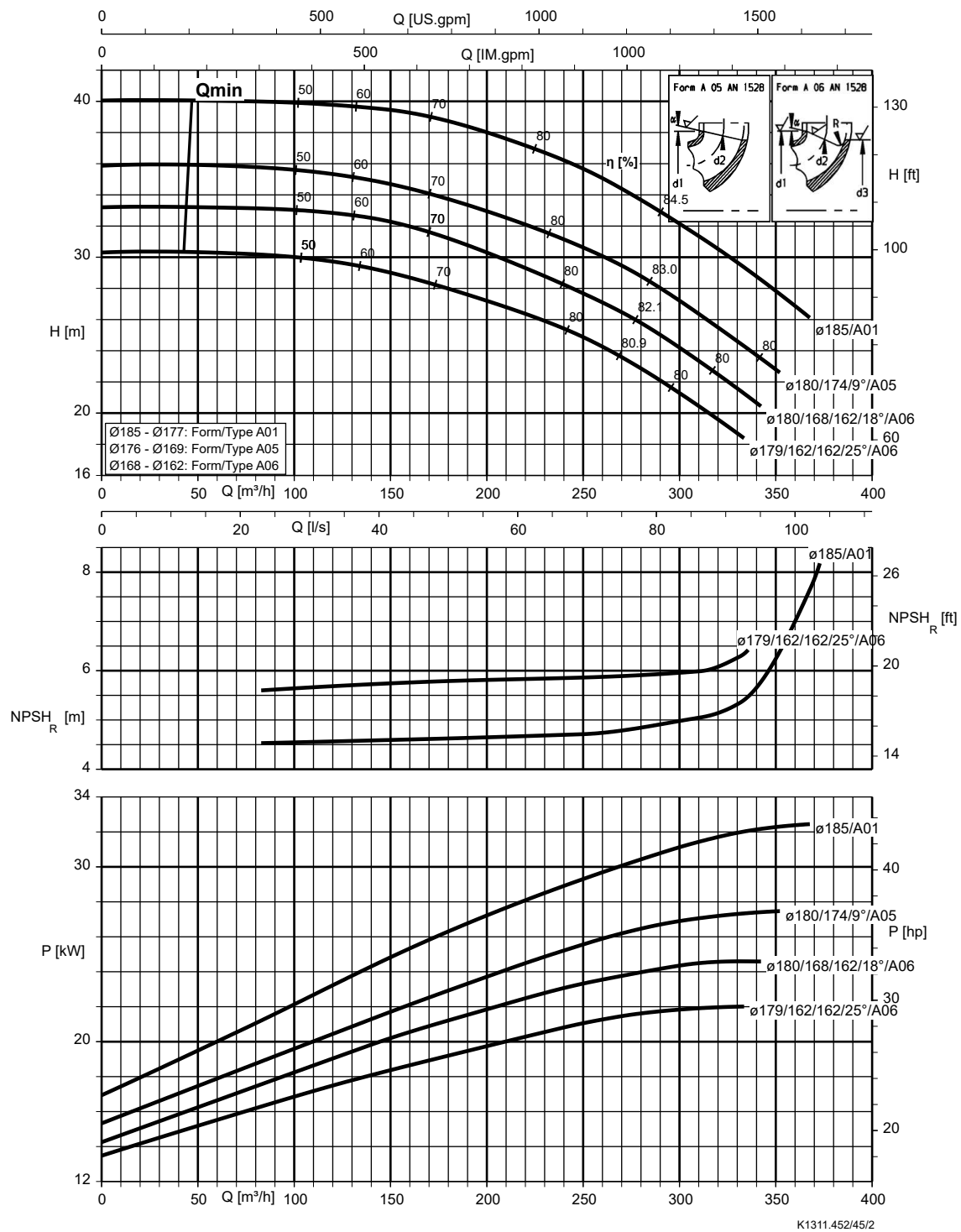


Etanorm 100-080-315,  $n = 2900 \text{ min}^{-1}$



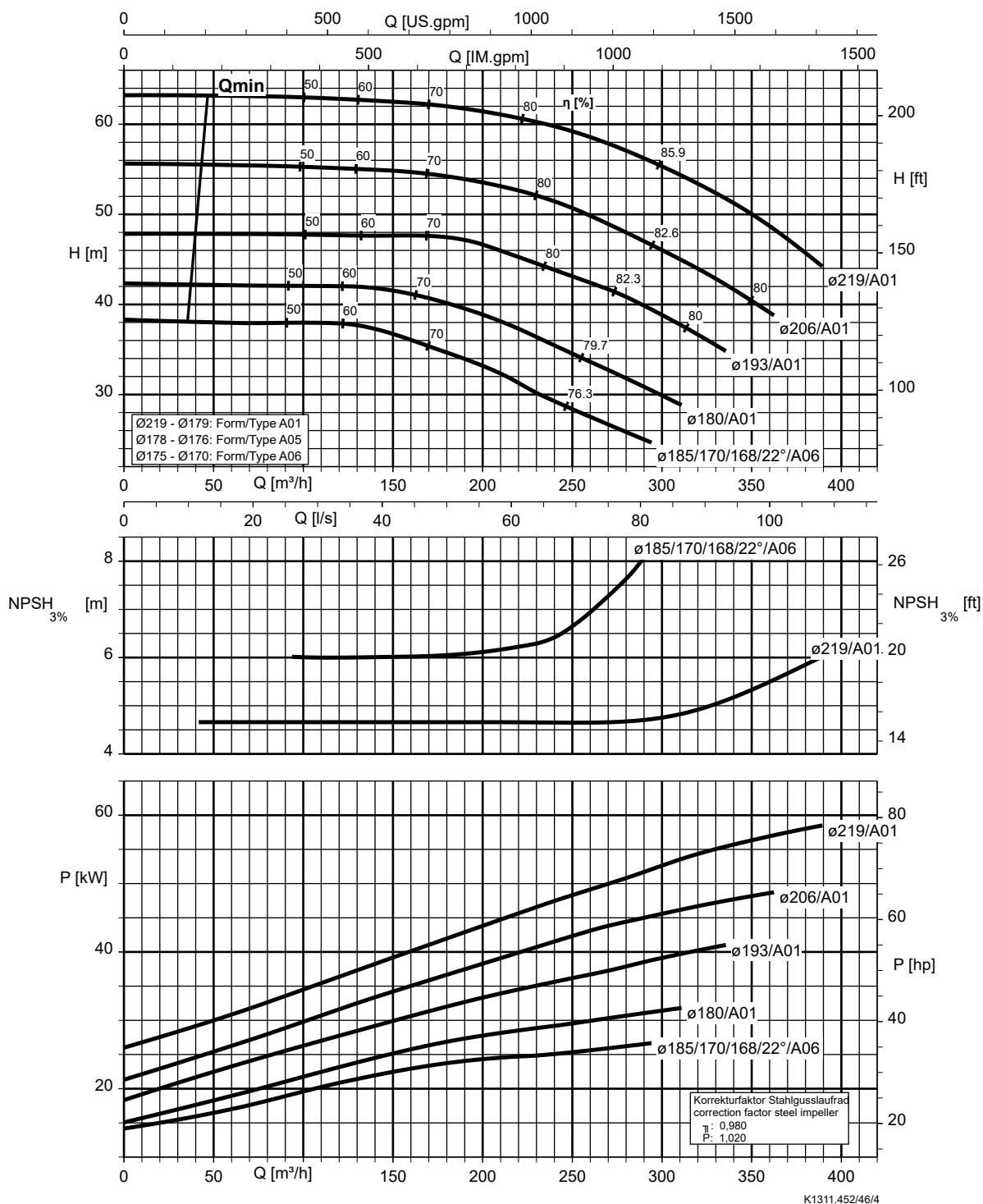
# Etanorm 125-100-160, n = 2900 min<sup>-1</sup>

Etanorm SYT, Etanorm V, Etabloc



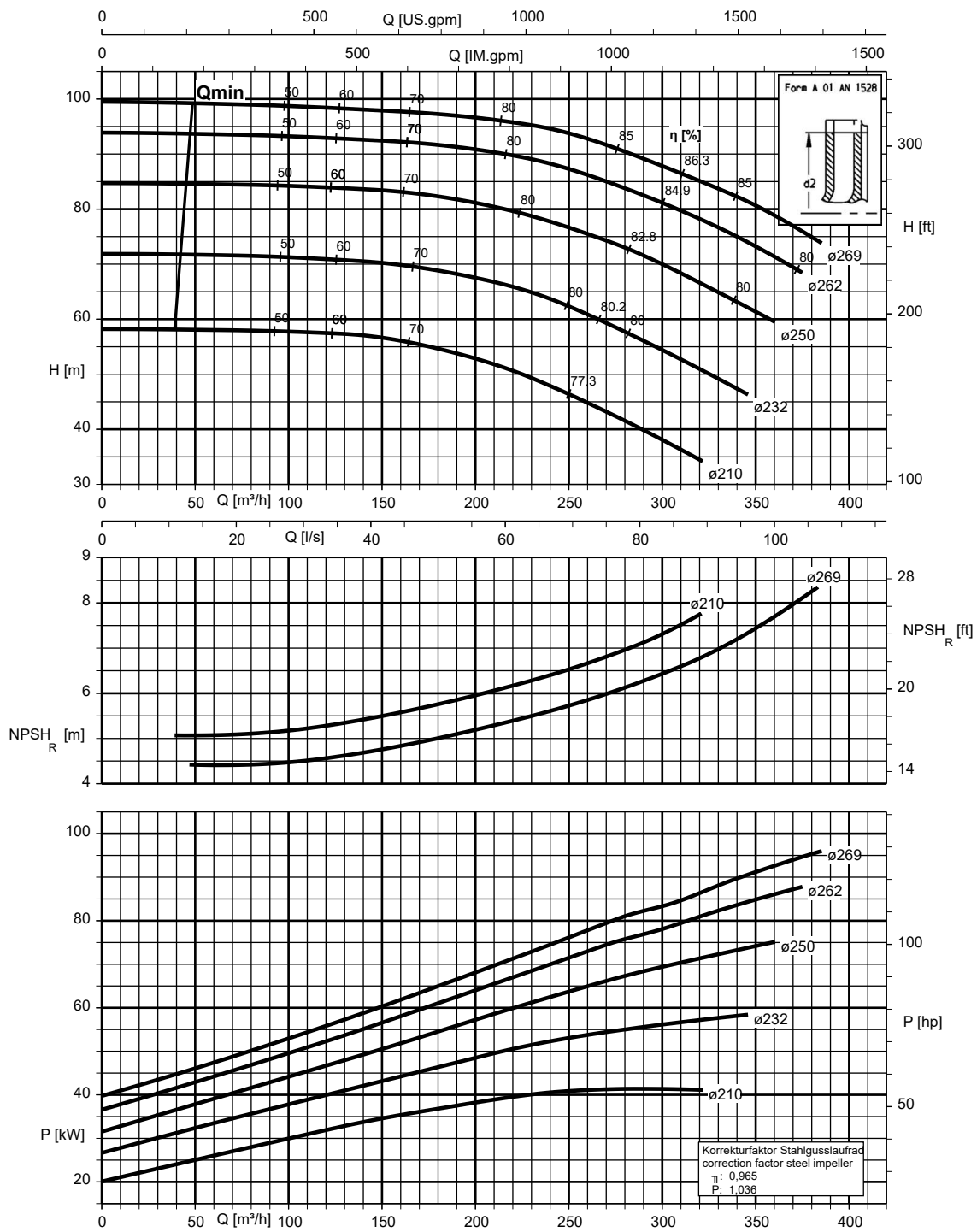
Etanorm 125-100-200,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



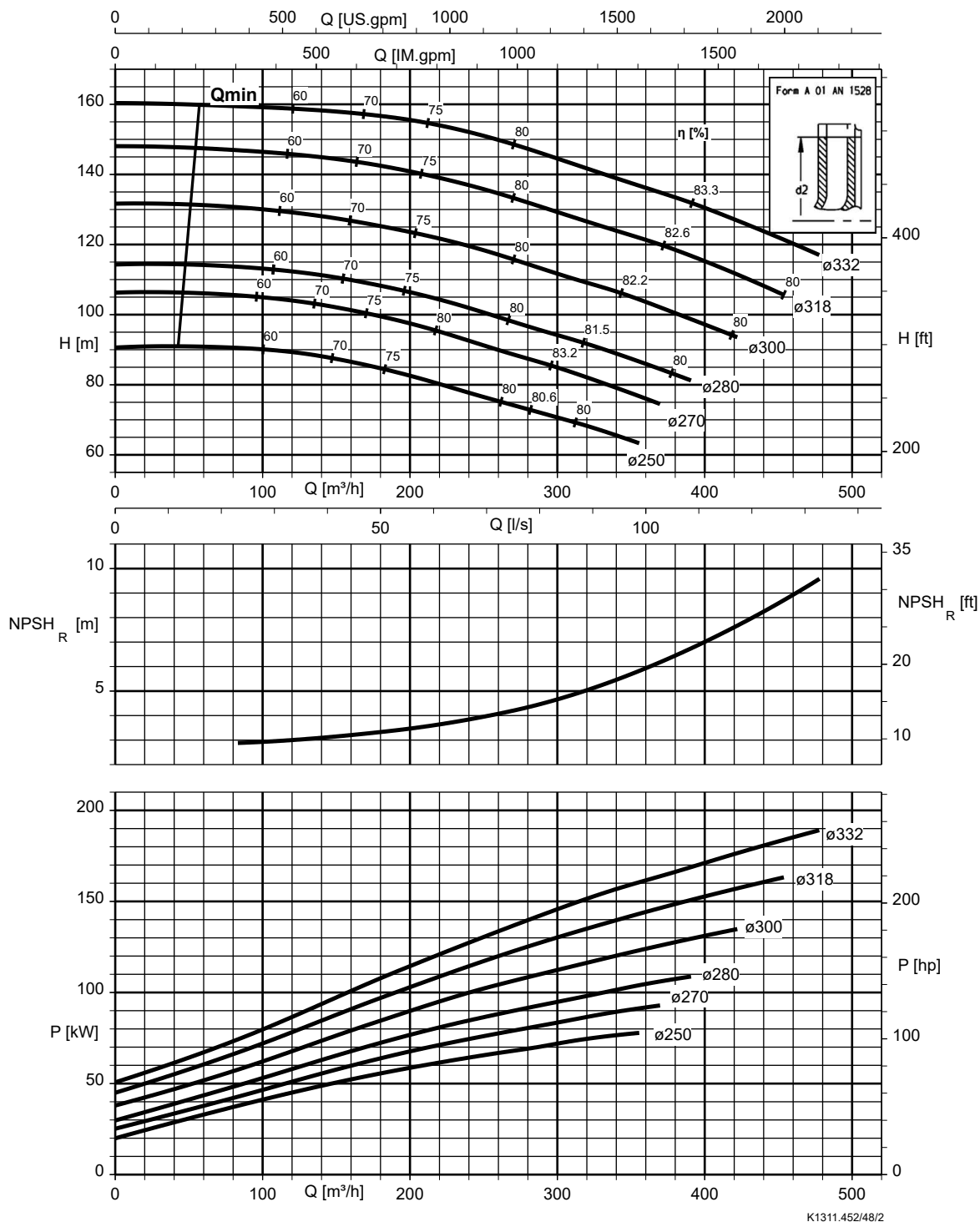
Etanorm 125-100-250,  $n = 2900 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



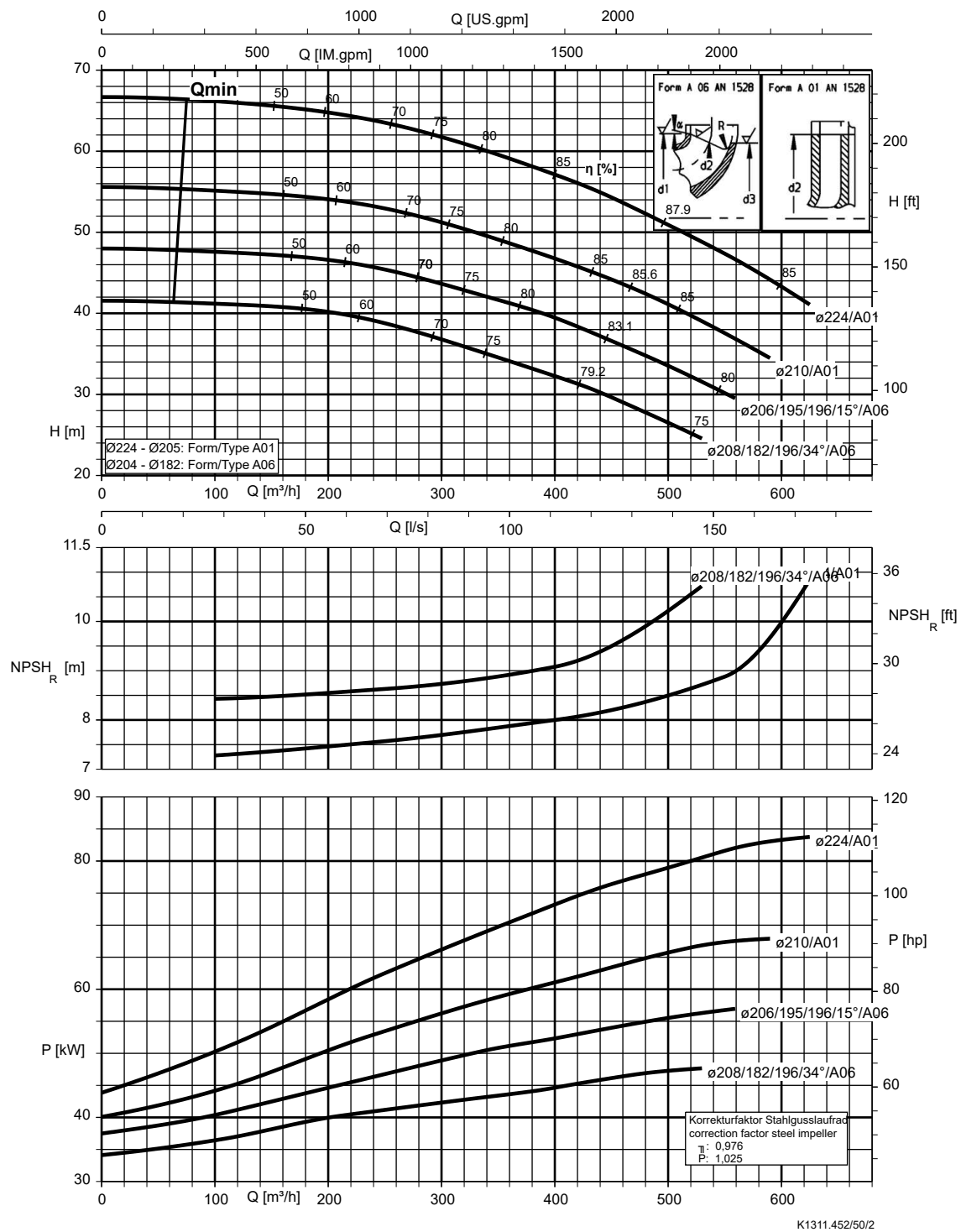
K1311.452/47/2

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



Etanorm 150-125-200,  $n = 2900 \text{ min}^{-1}$

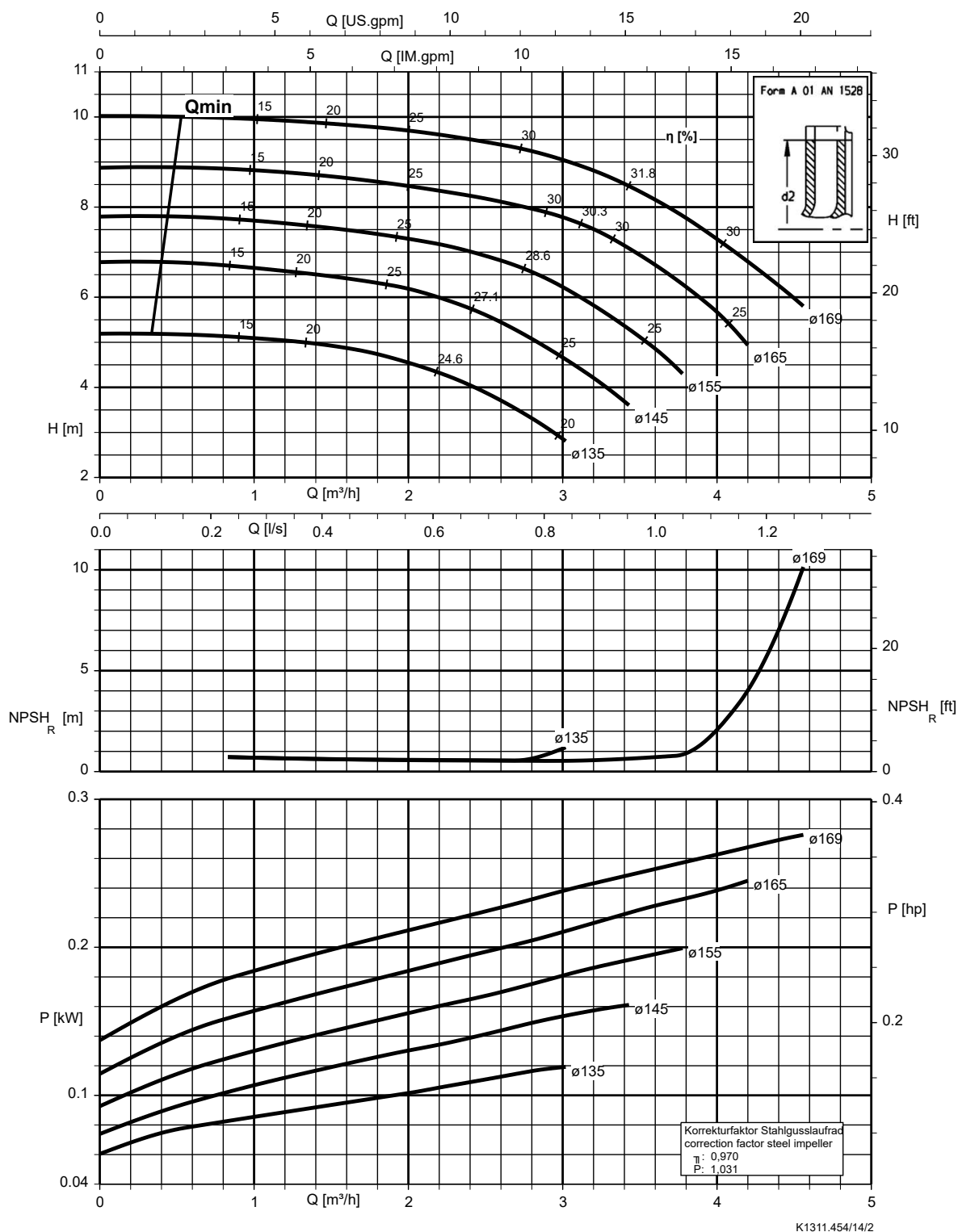
Etanorm SYT, Etanorm V, Etabloc



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

Etanorm 040-025-160,  $n = 1450 \text{ min}^{-1}$

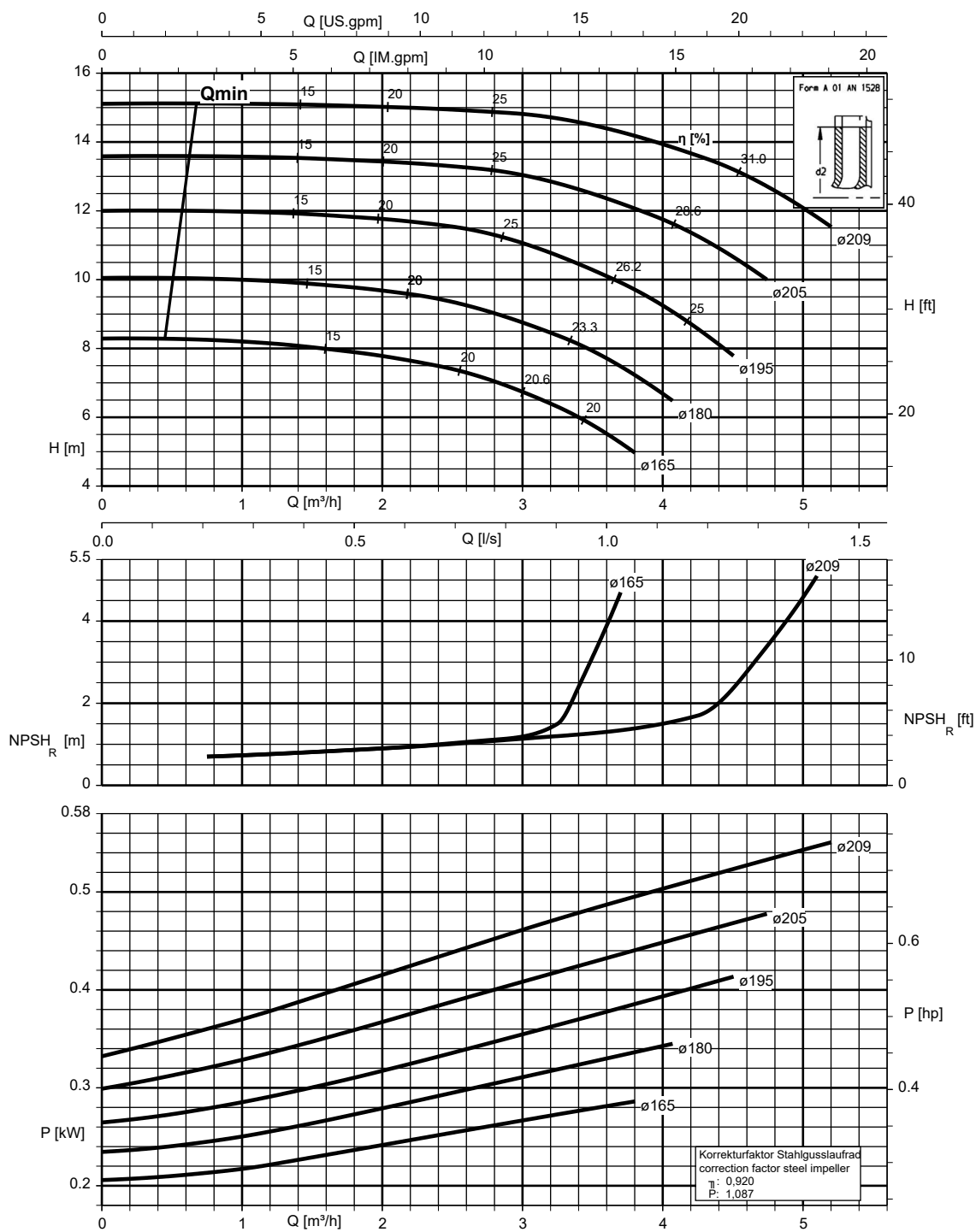
Etanorm SYT, Etabloc, Etabloc SYT



1311.45/11-DE

Etanorm 040-025-200,  $n = 1450 \text{ min}^{-1}$

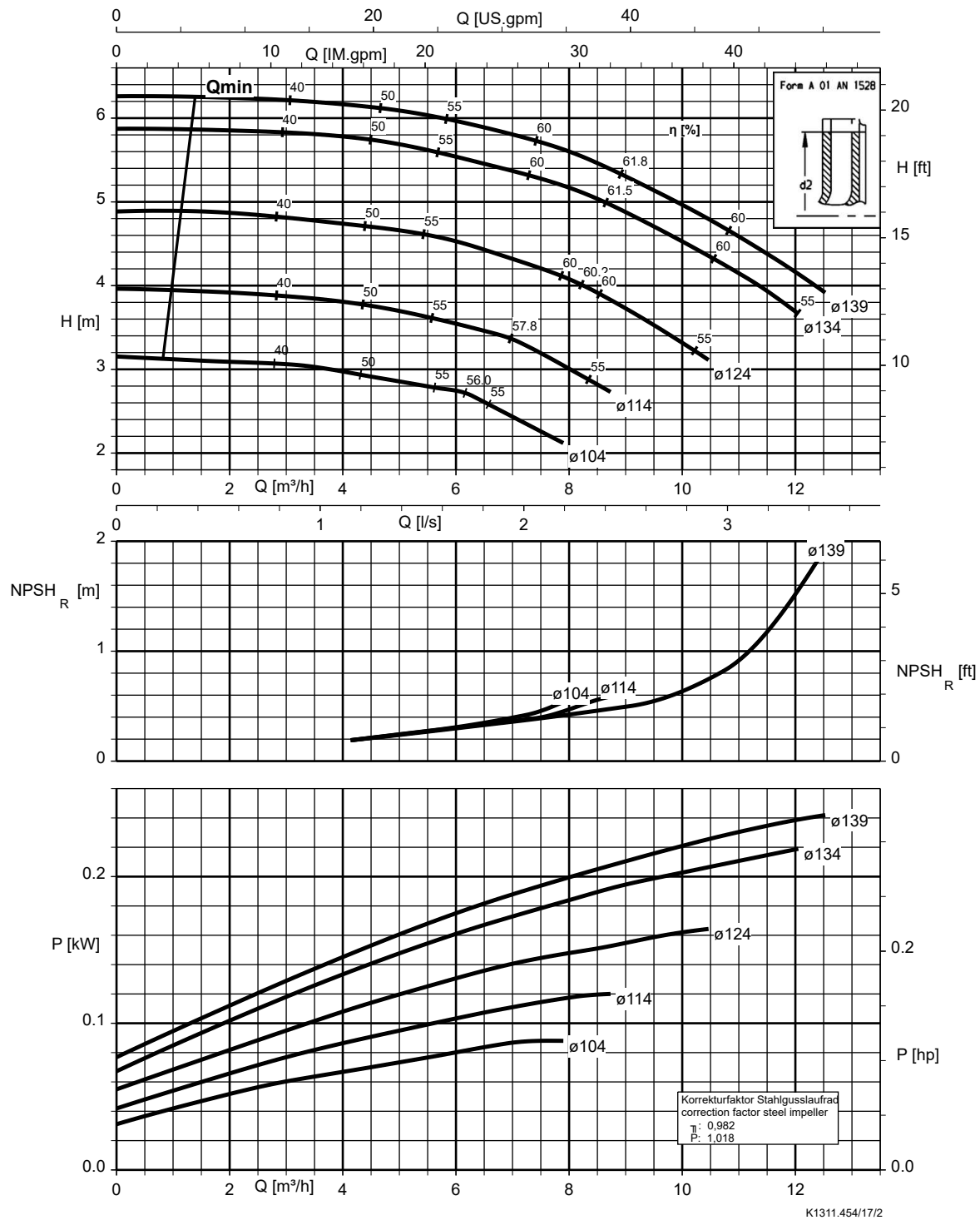
Etanorm SYT, Etabloc, Etabloc SYT



K1311.454/15/2

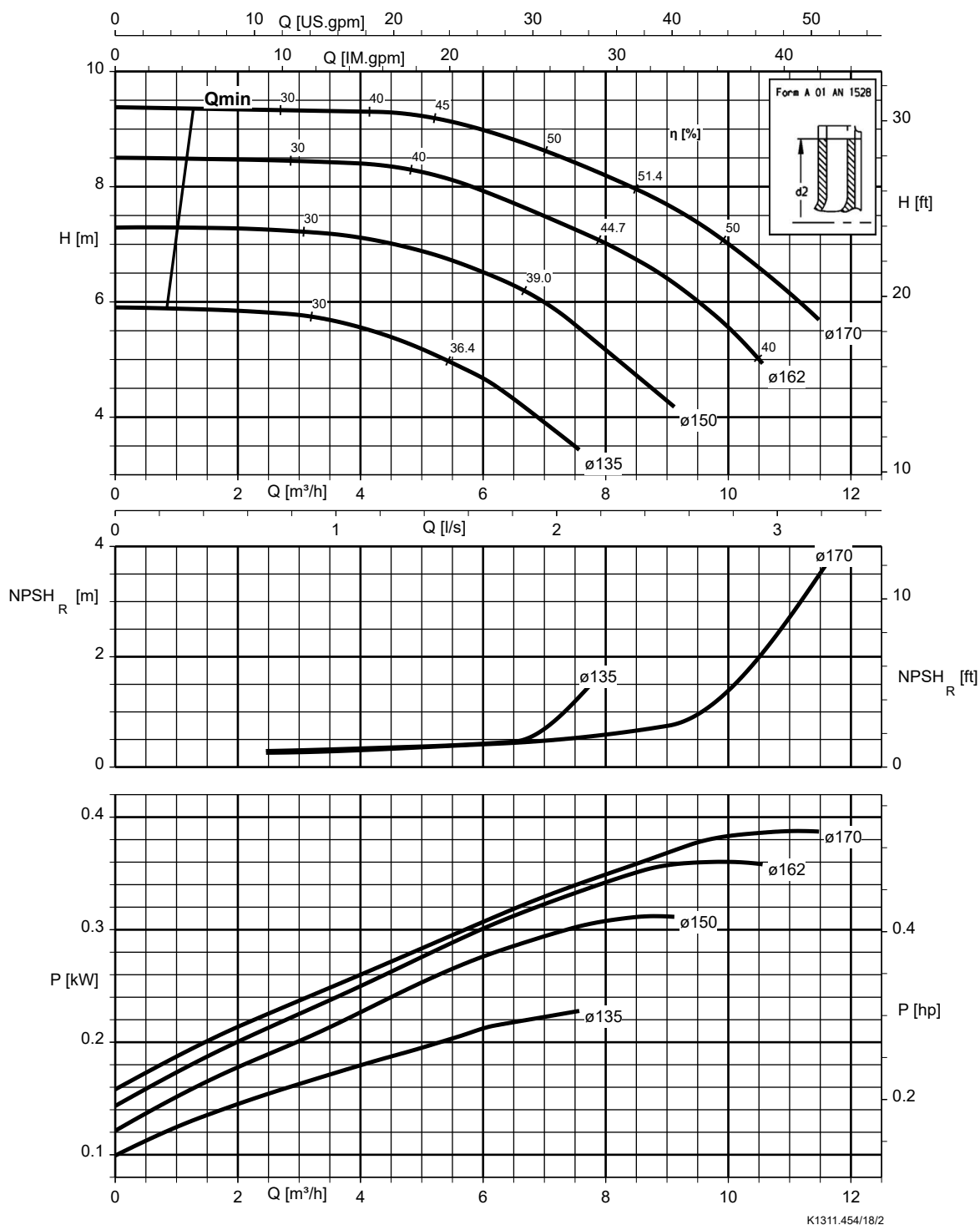
Etanorm 050-032-125.1,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



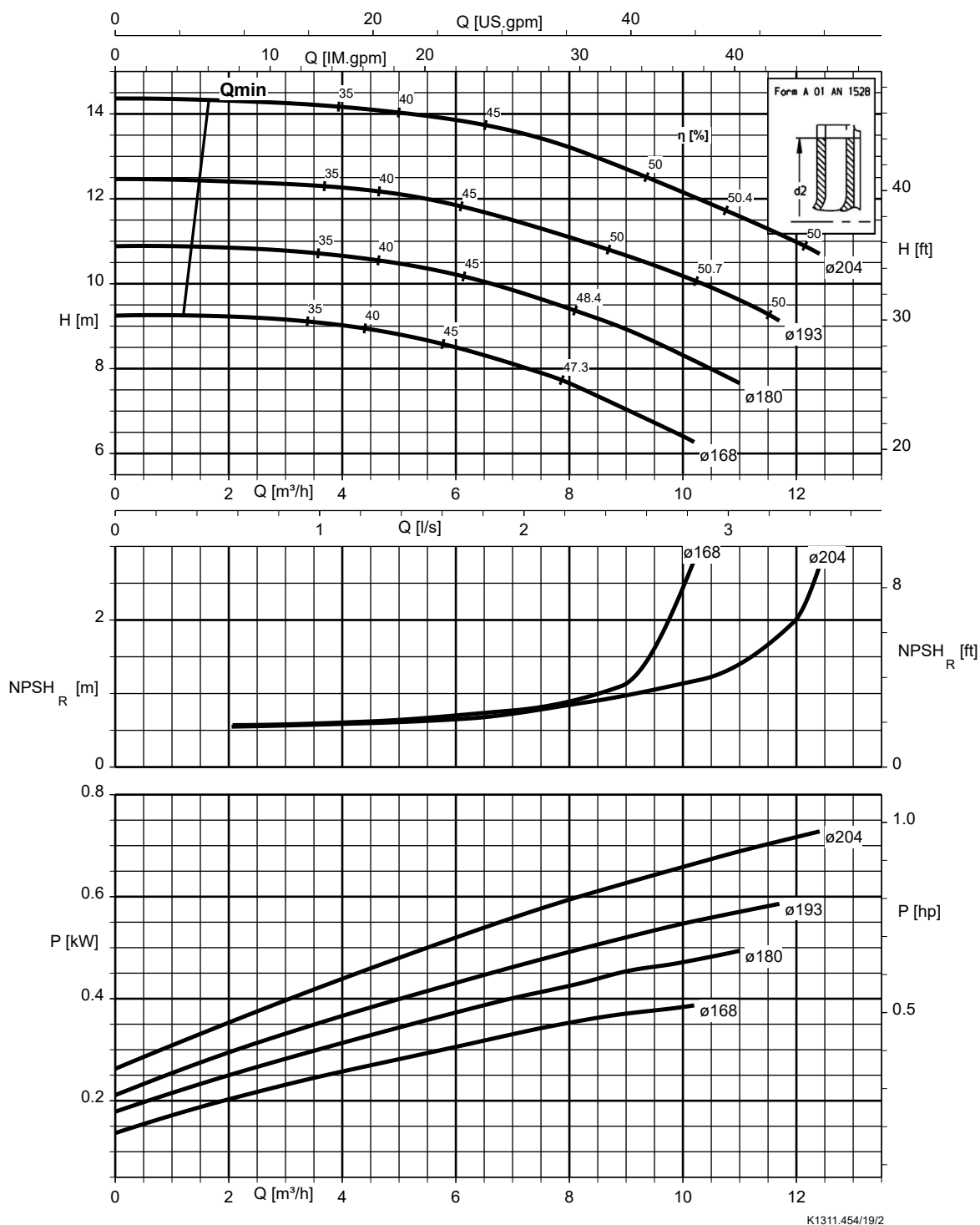
Etanorm 050-032-160.1,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



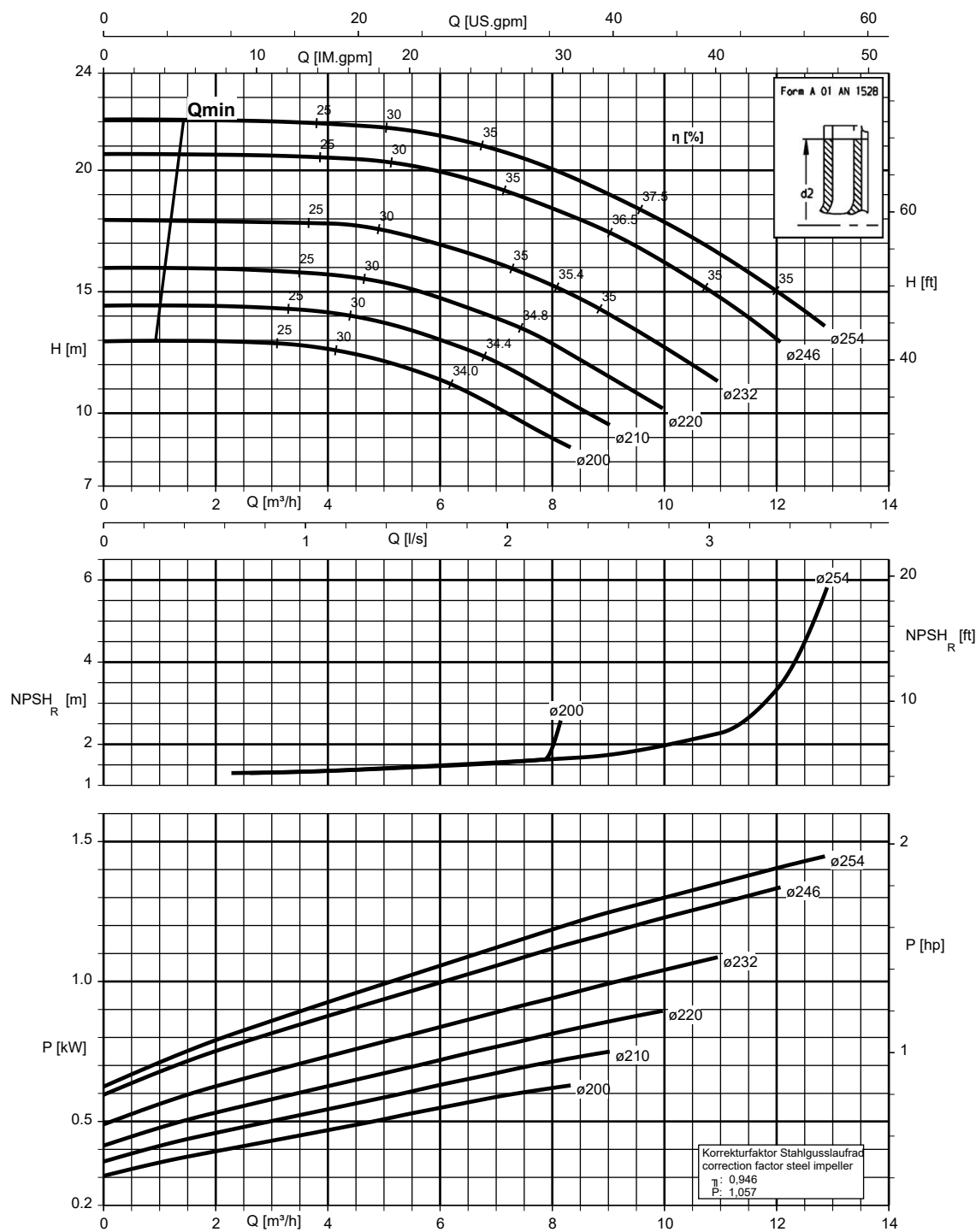
Etanorm 050-032-200.1,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 050-032-250.1,  $n = 1450 \text{ min}^{-1}$

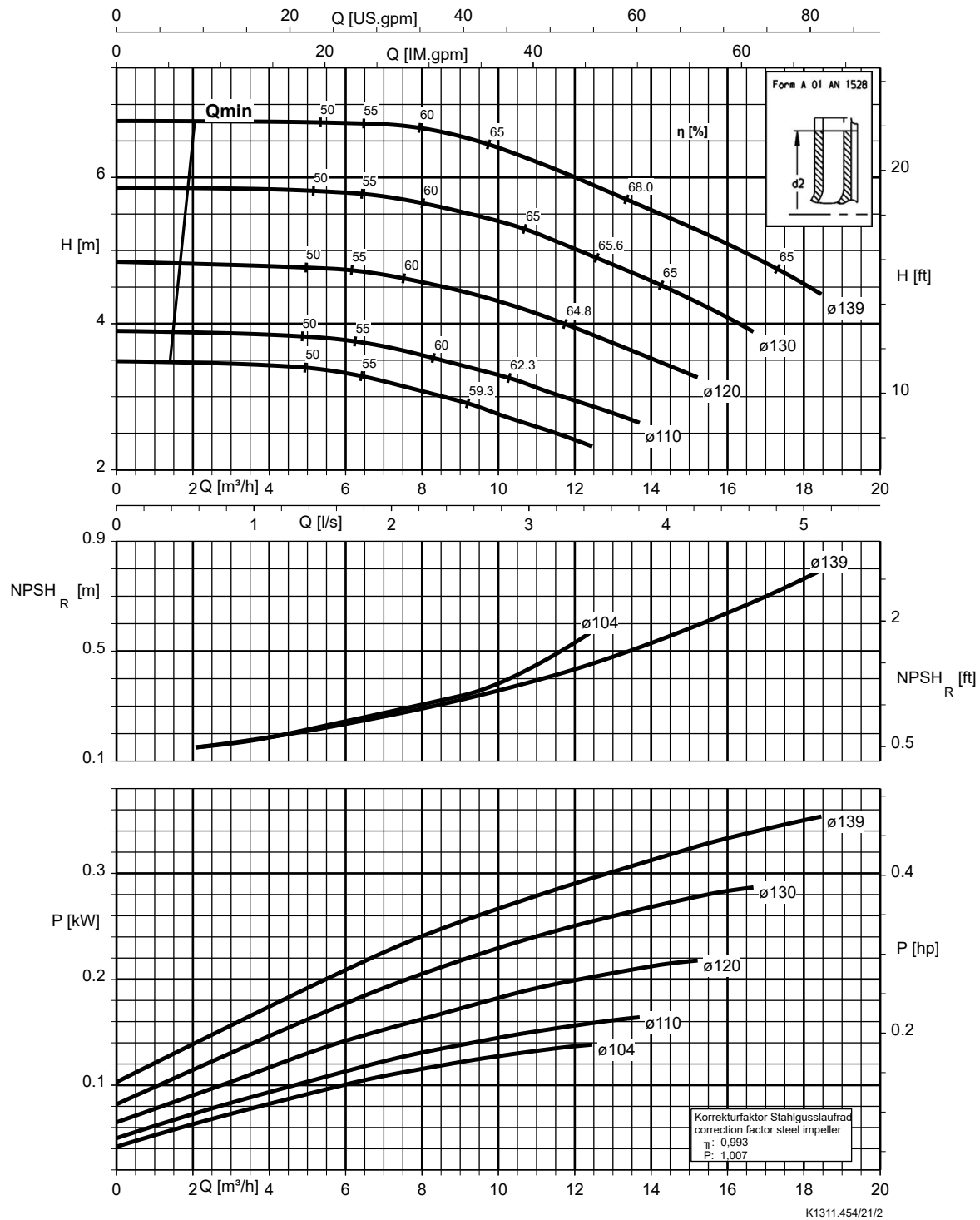
Etanorm V, Etabloc



K1311.454/20/2

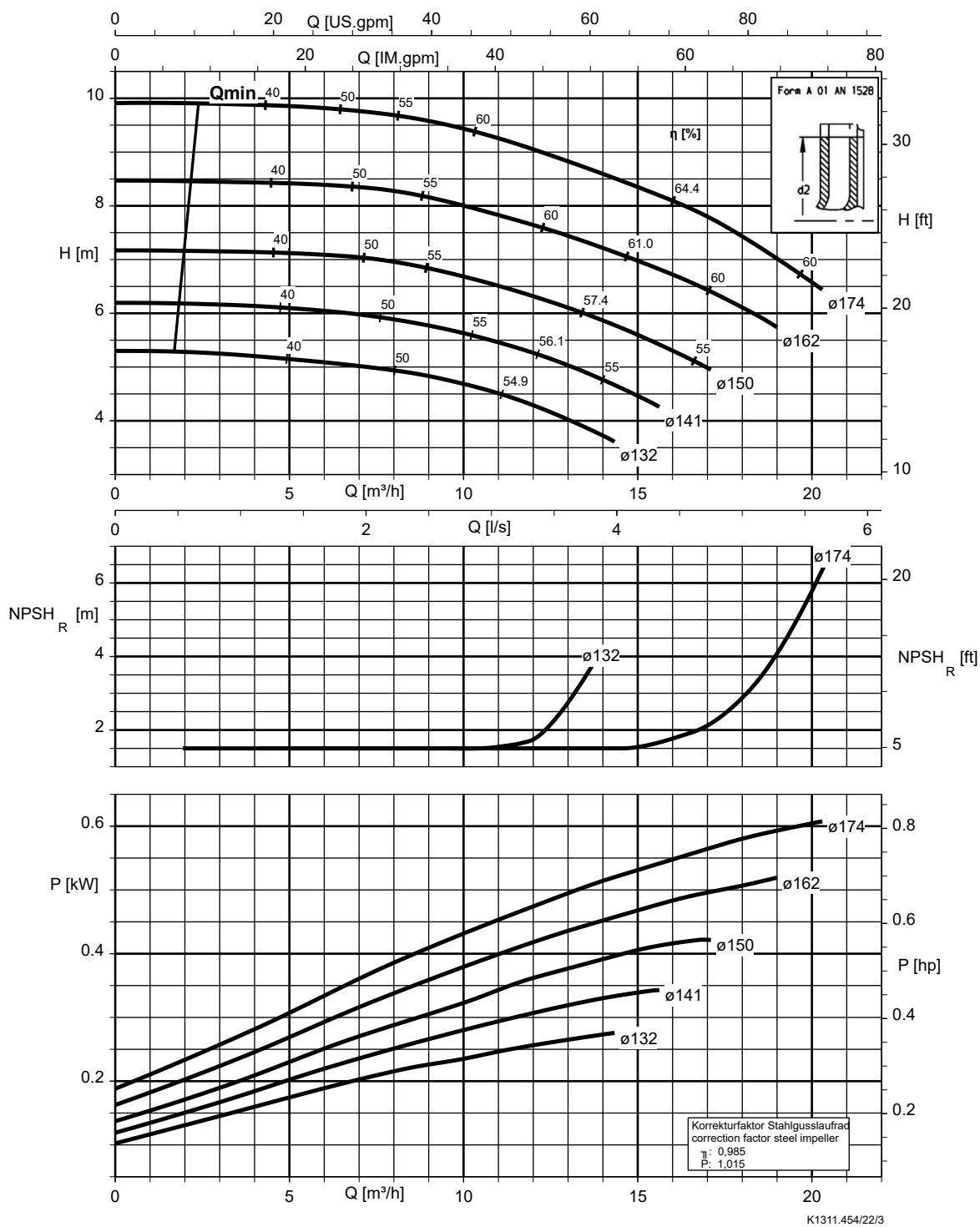
Etanorm 050-032-125,  $n = 1450 \text{ min}^{-1}$

Etanorm V, Etabloc



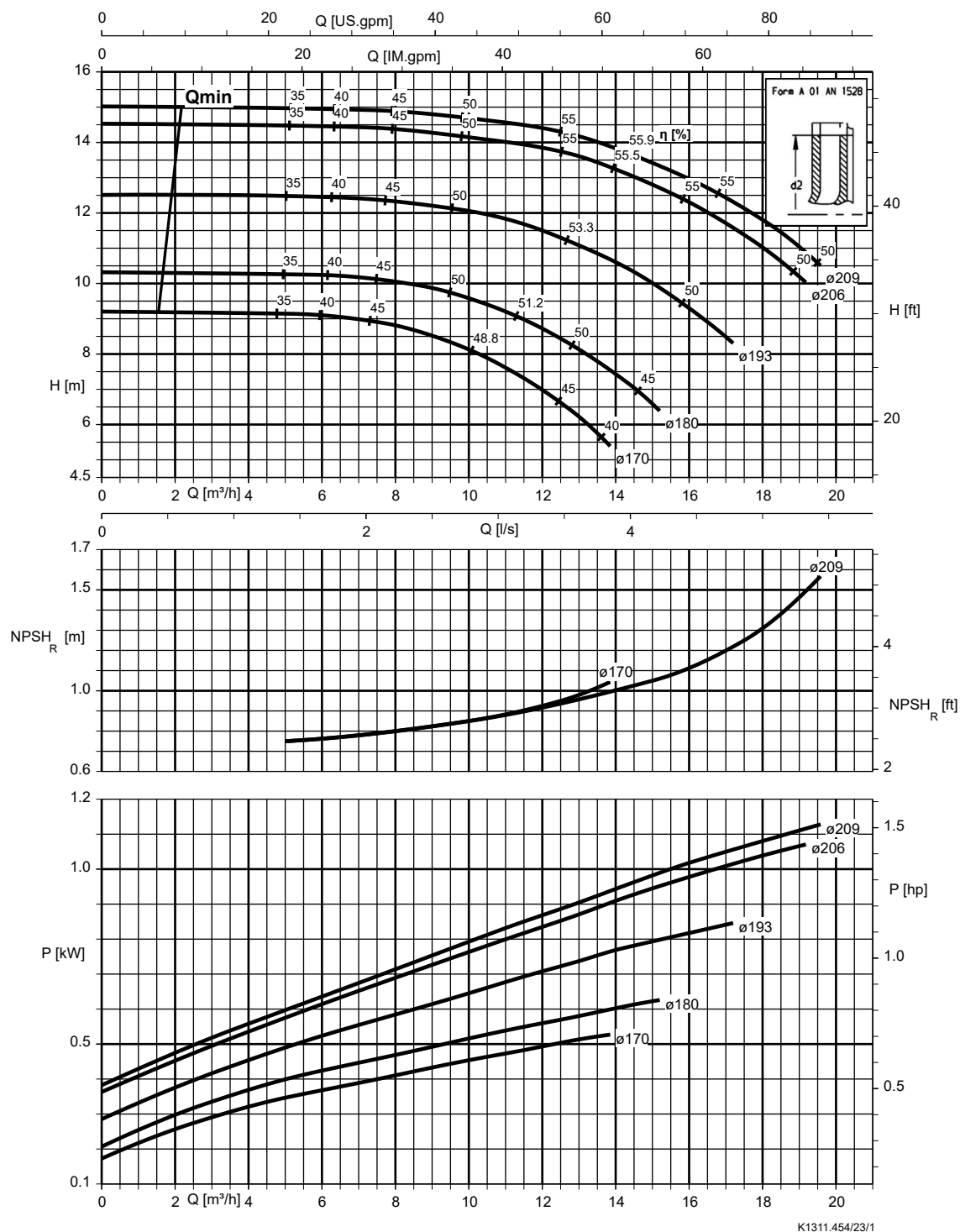
Etanorm 050-032-160,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



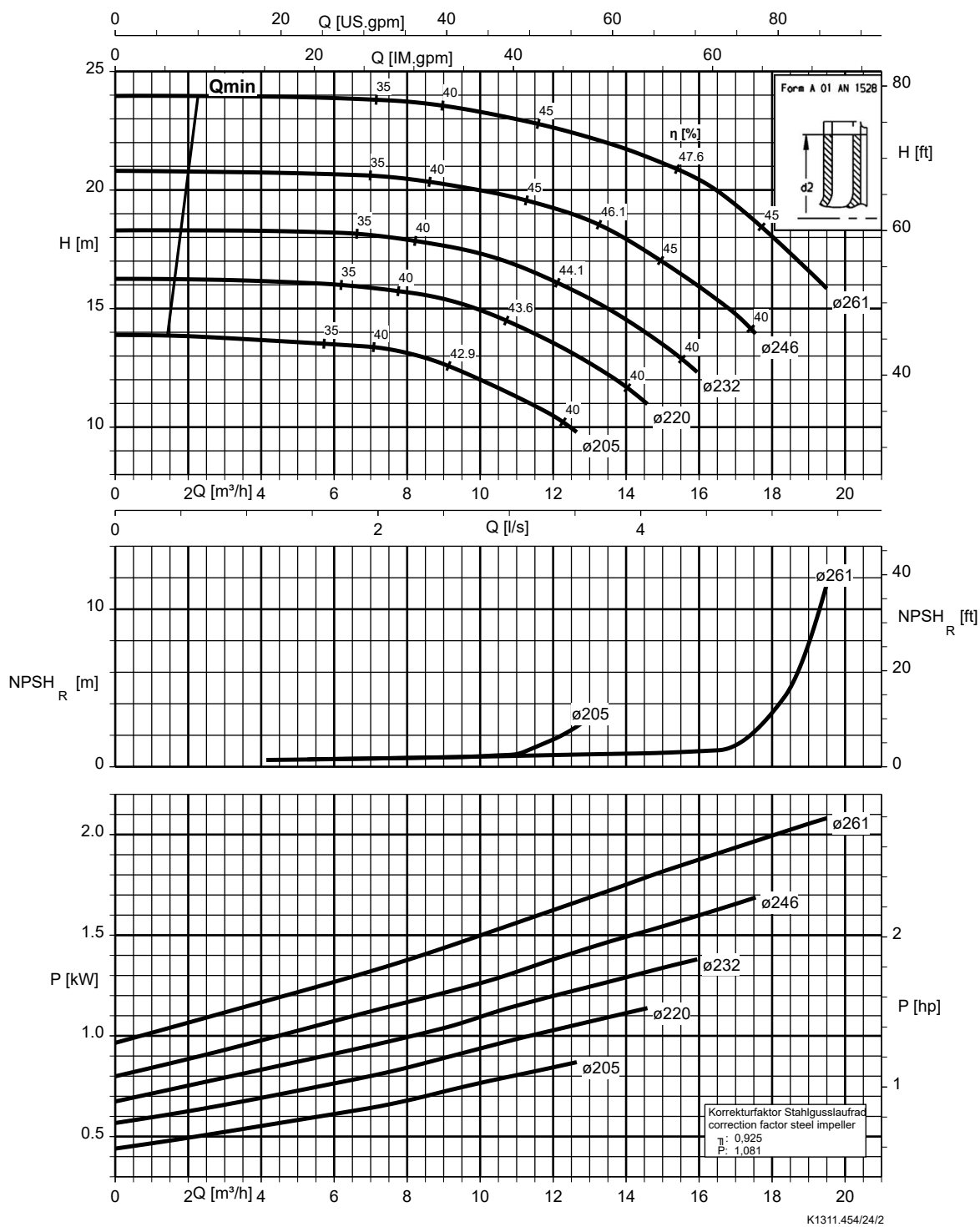
Etanorm 050-032-200,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



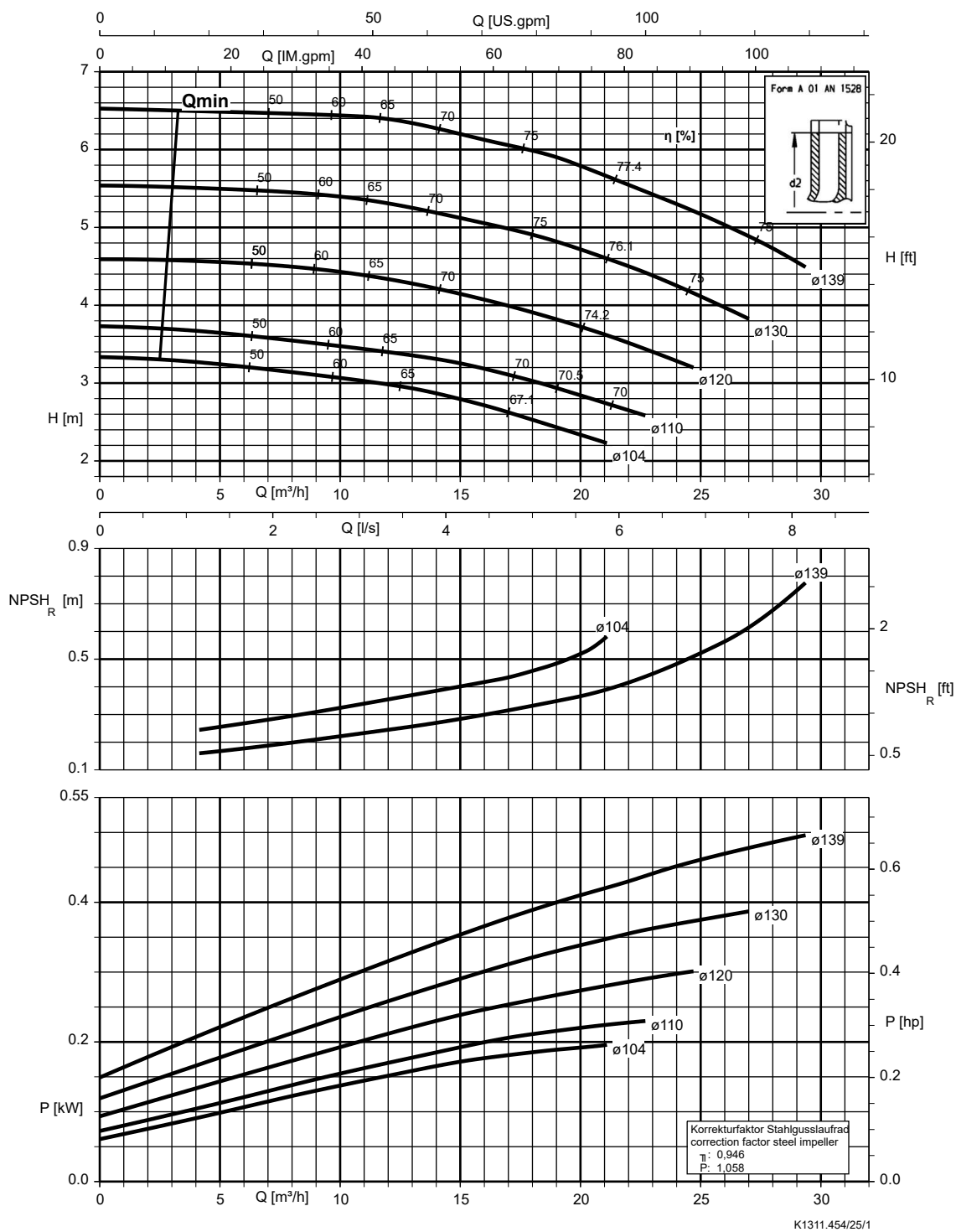
Etanorm 050-032-250,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



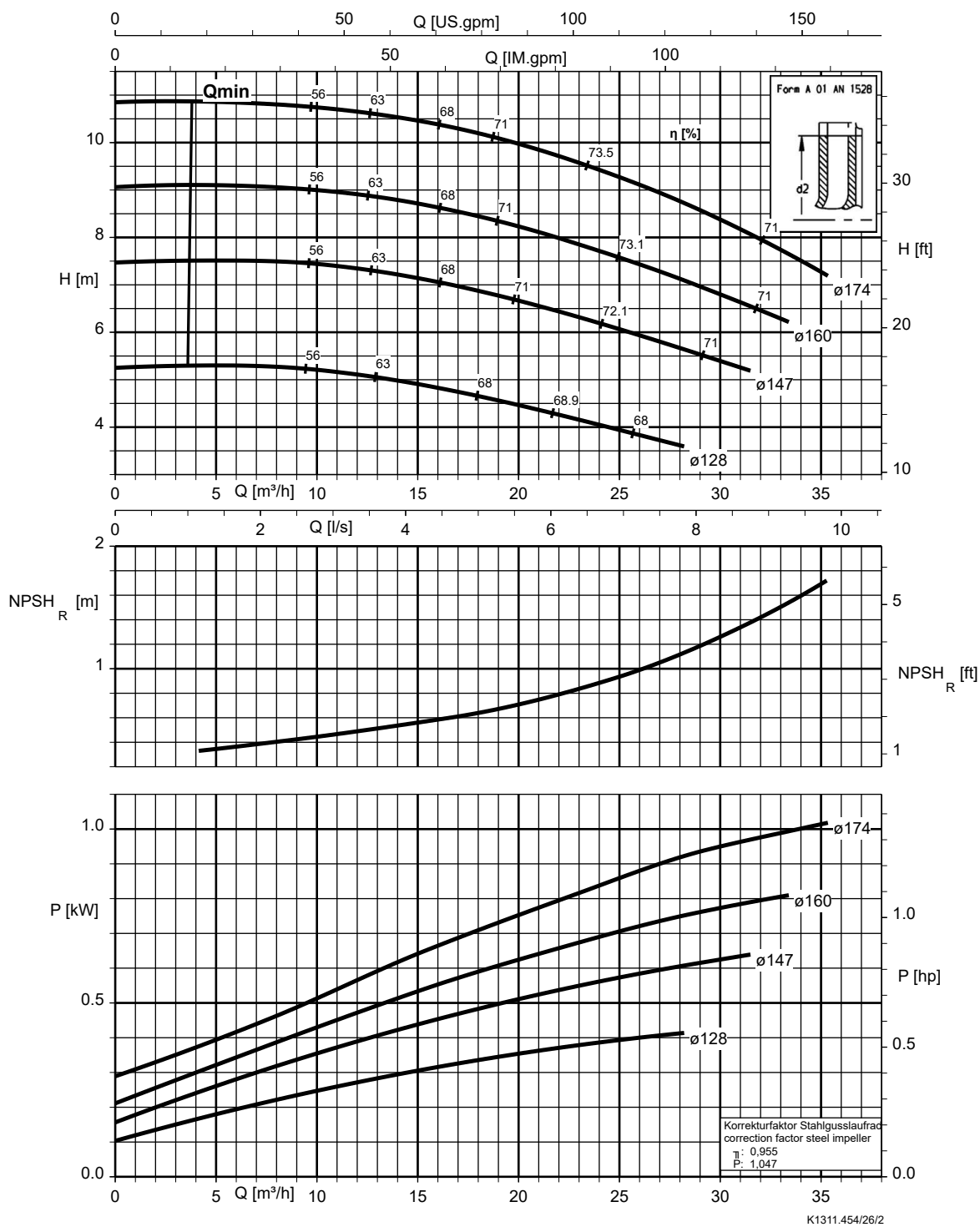
Etanorm 065-040-125,  $n = 1450 \text{ min}^{-1}$

Etanorm V, Etabloc



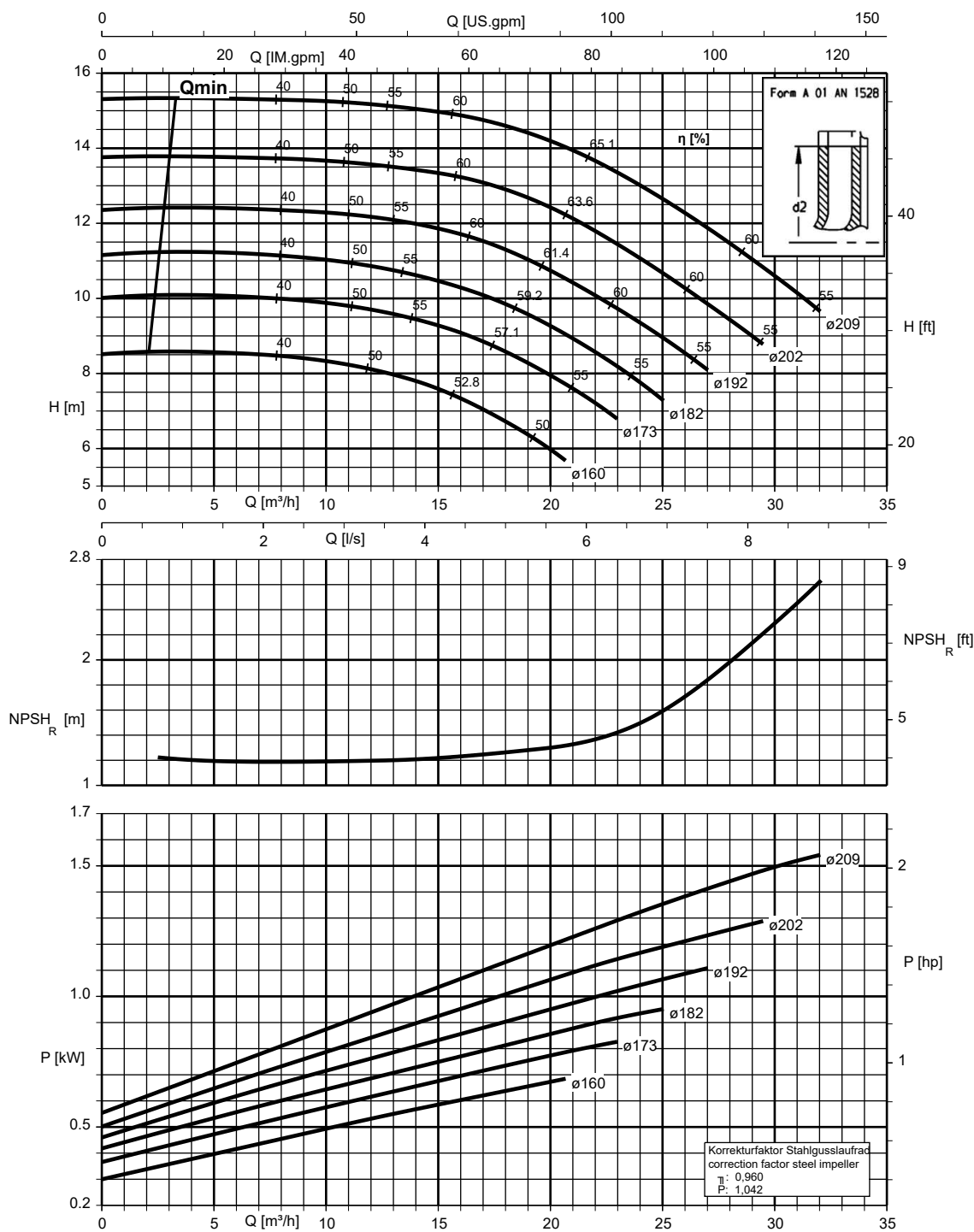
Etanorm 065-040-160,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 065-040-200,  $n = 1450 \text{ min}^{-1}$

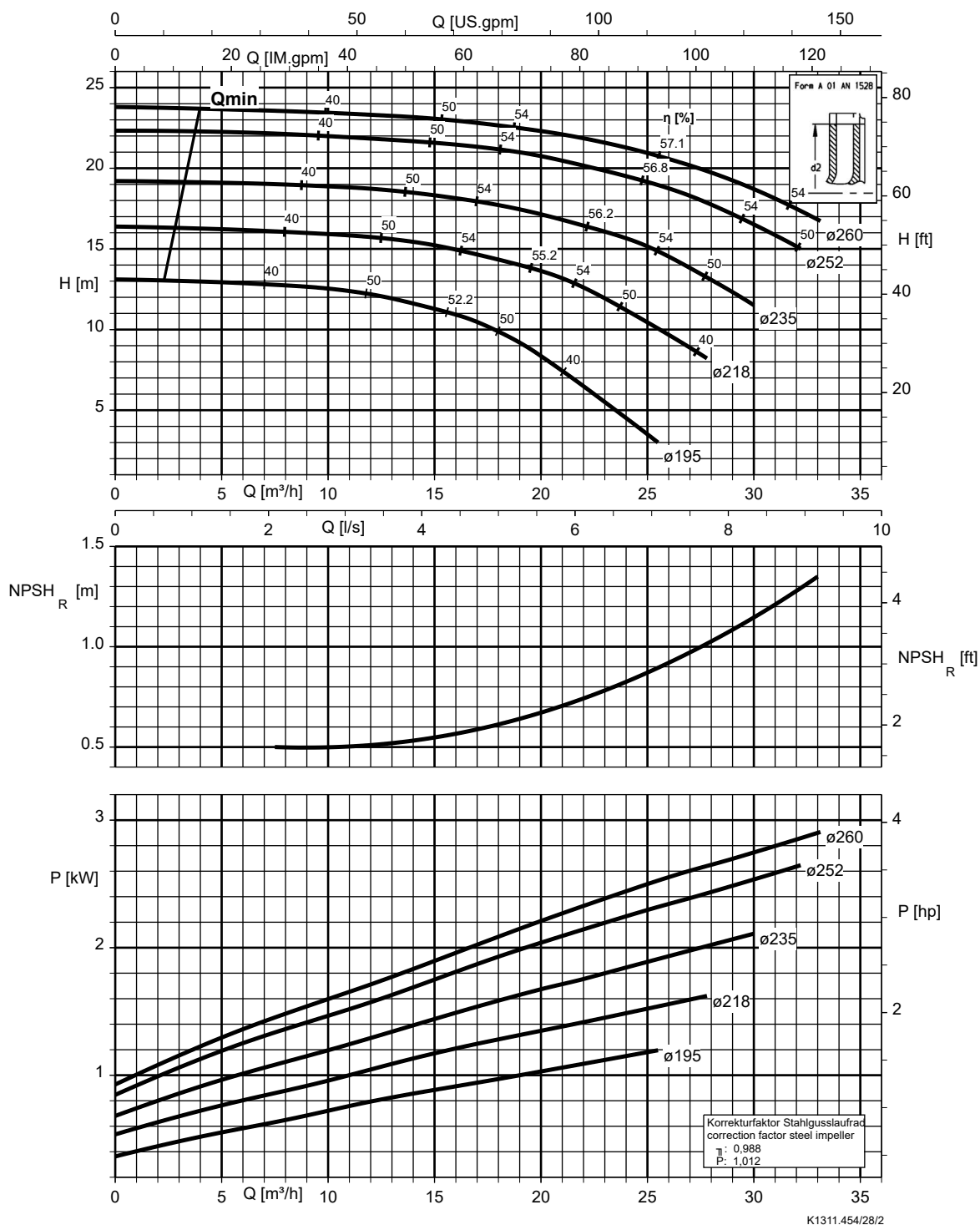
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



K1311.454/27/1

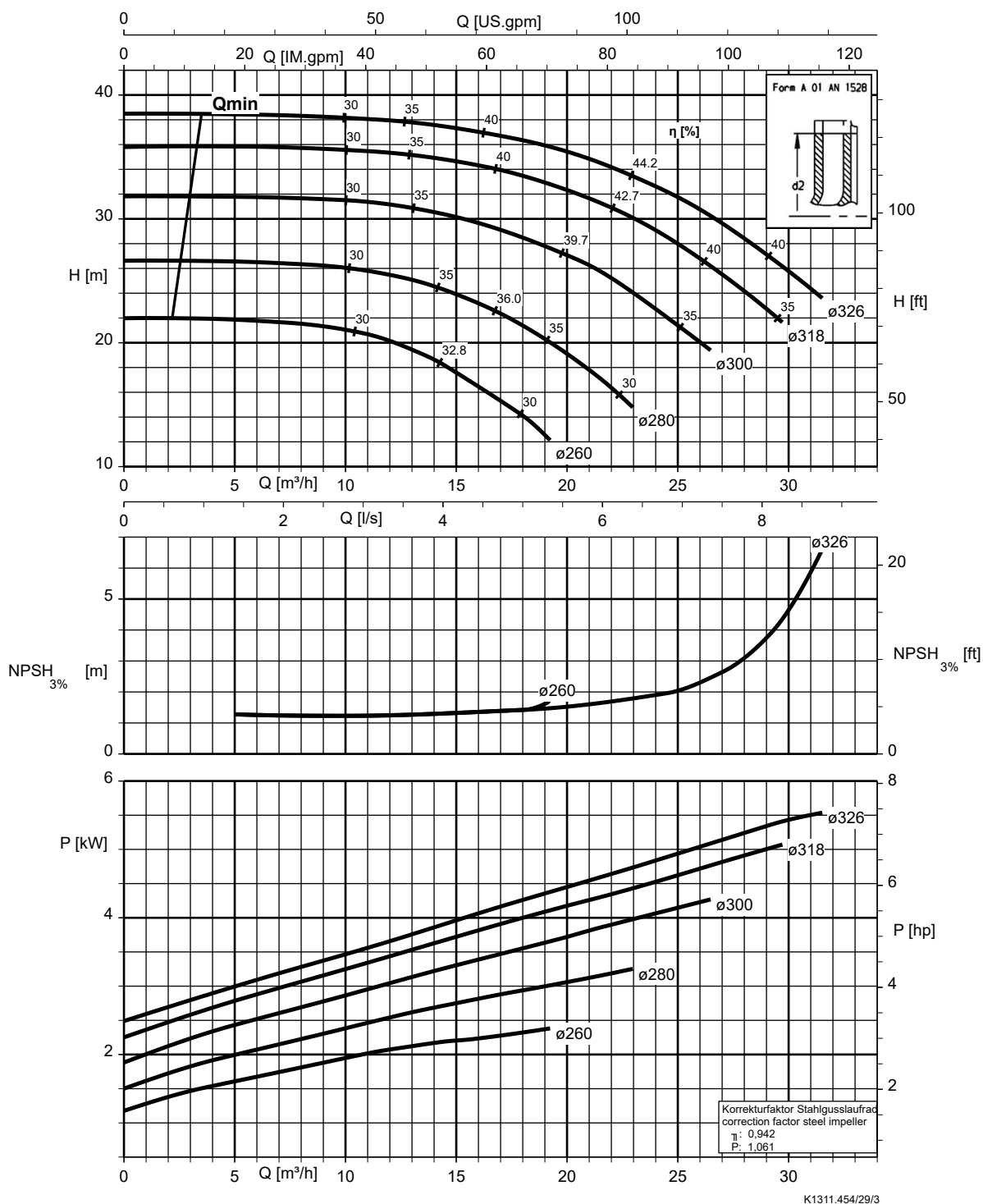
Etanorm 065-040-250,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



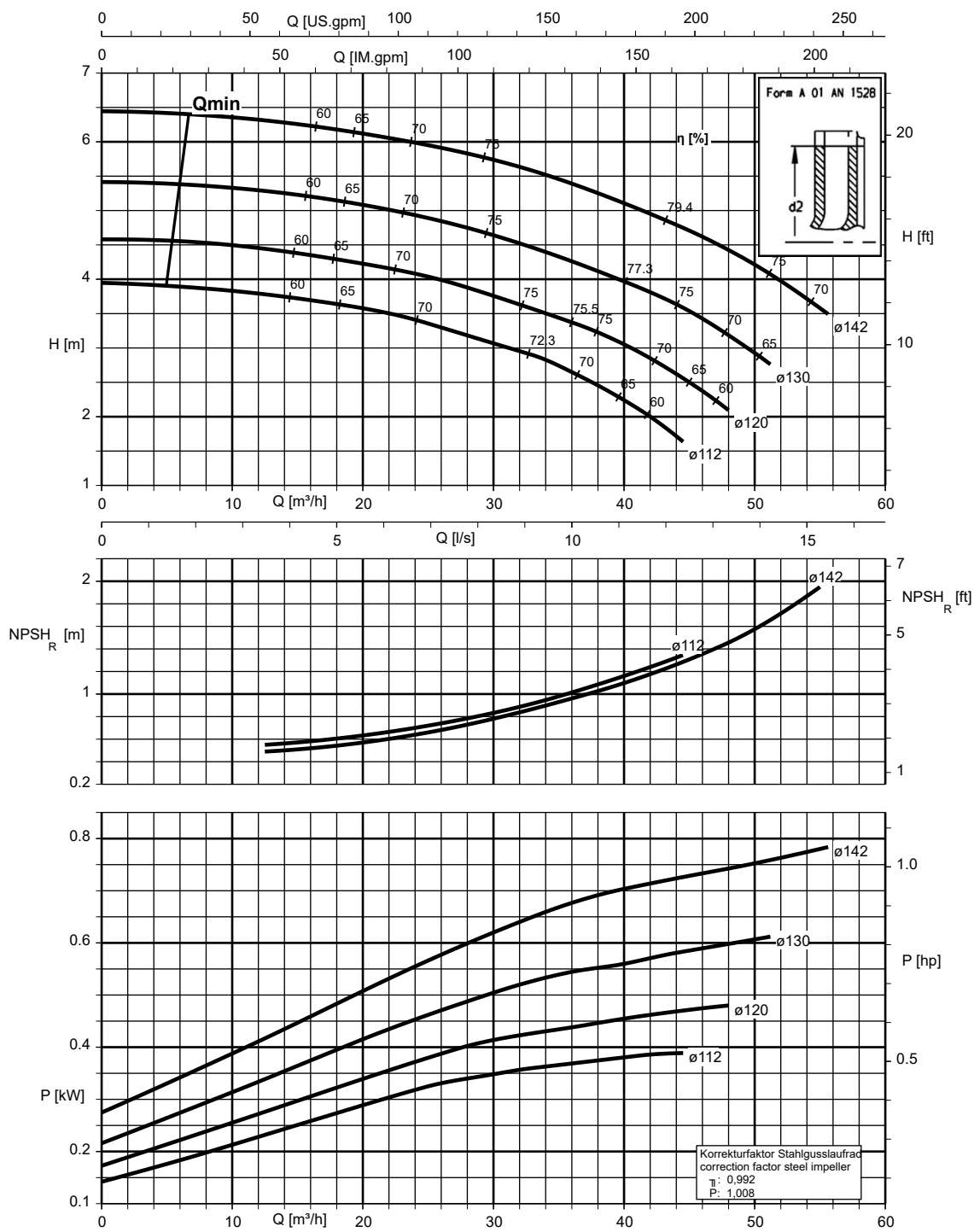
Etanorm 065-040-315,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



Etanorm 065-050-125,  $n = 1450 \text{ min}^{-1}$

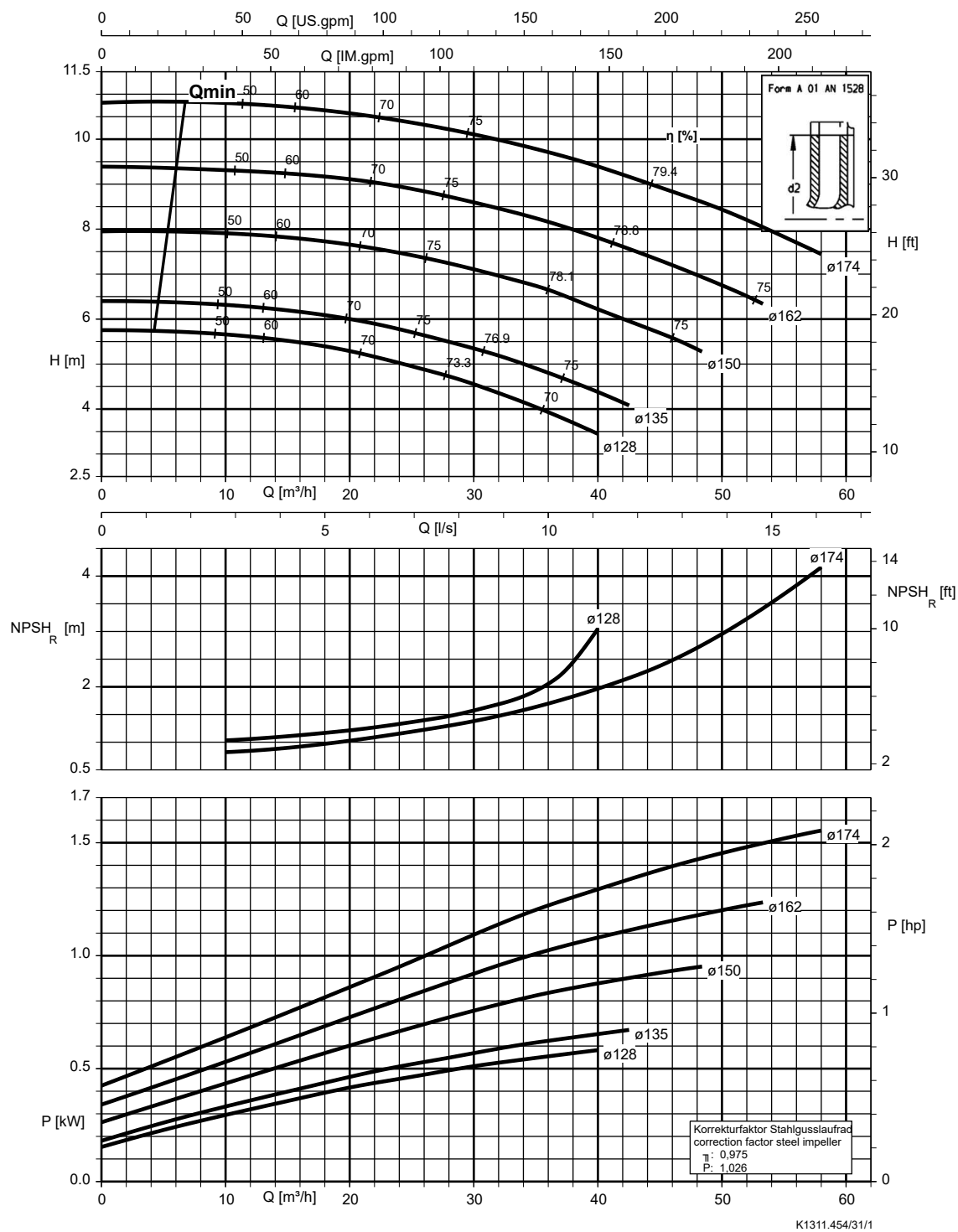
Etanorm V, Etabloc



K1311.454/30/1

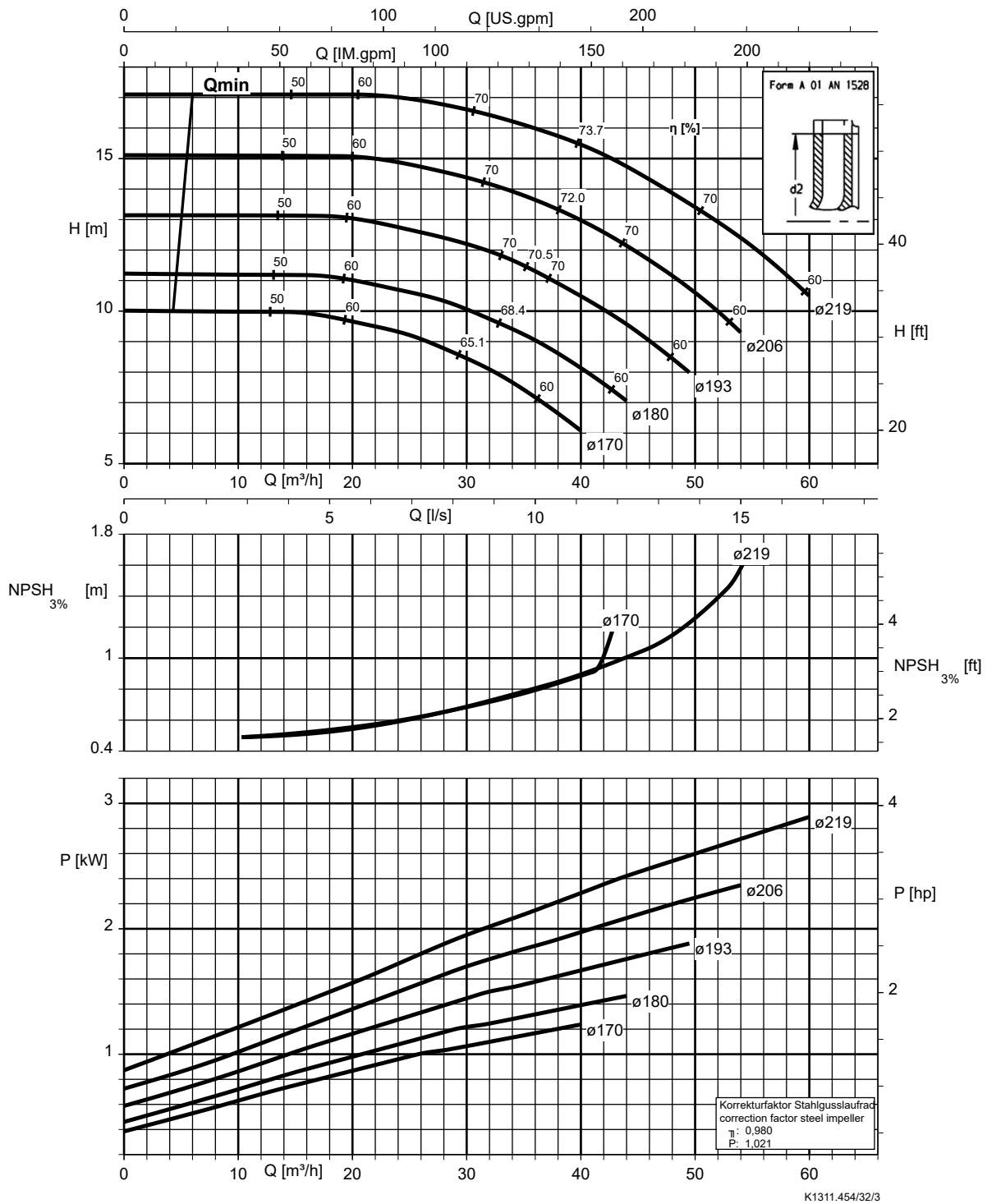
Etanorm 065-050-160,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



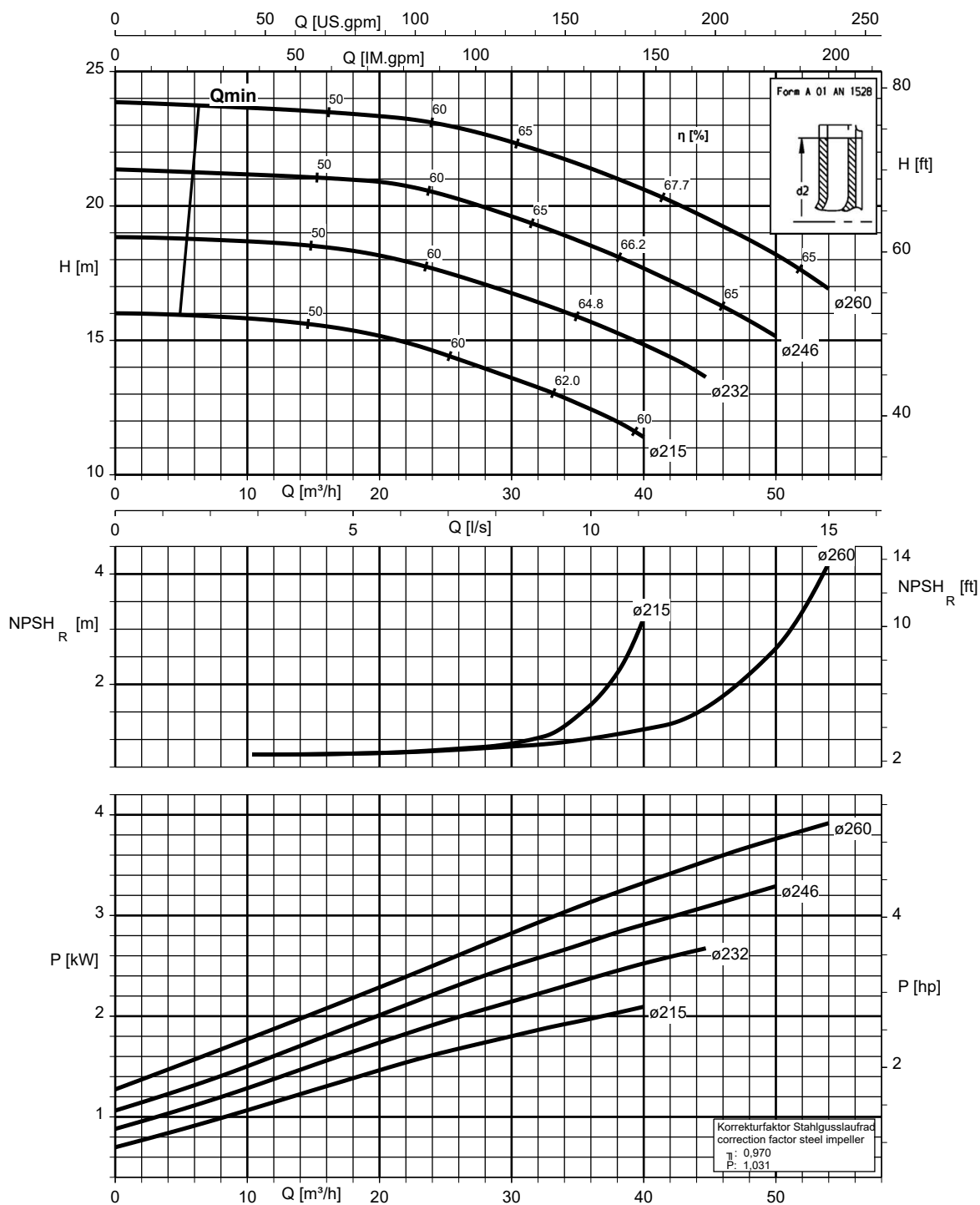
Etanorm 065-050-200,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



Etanorm 065-050-250,  $n = 1450 \text{ min}^{-1}$

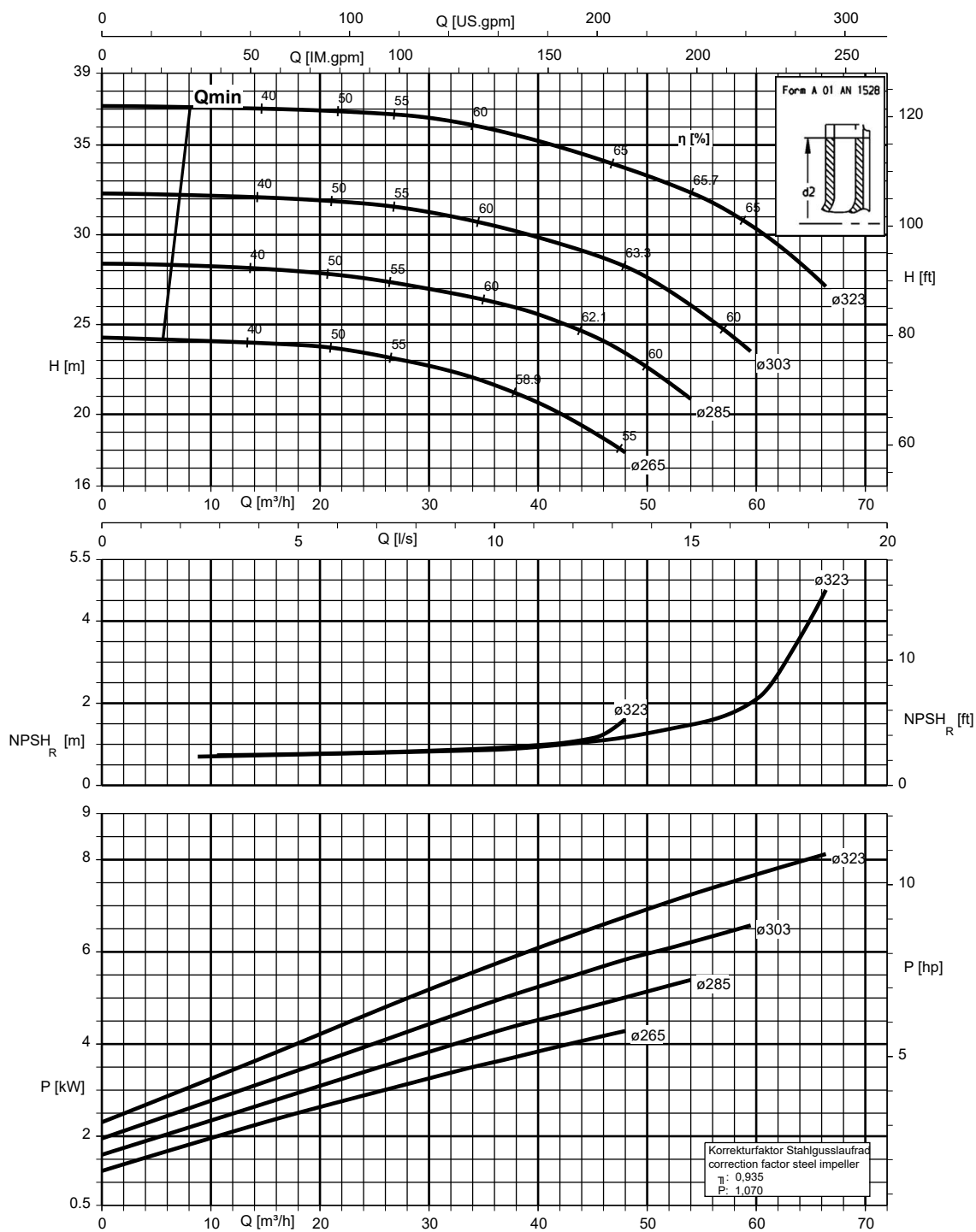
Etanorm SYT, Etanorm V, Etabloc



K1311.454/33/2

Etanorm 065-050-315,  $n = 1450 \text{ min}^{-1}$

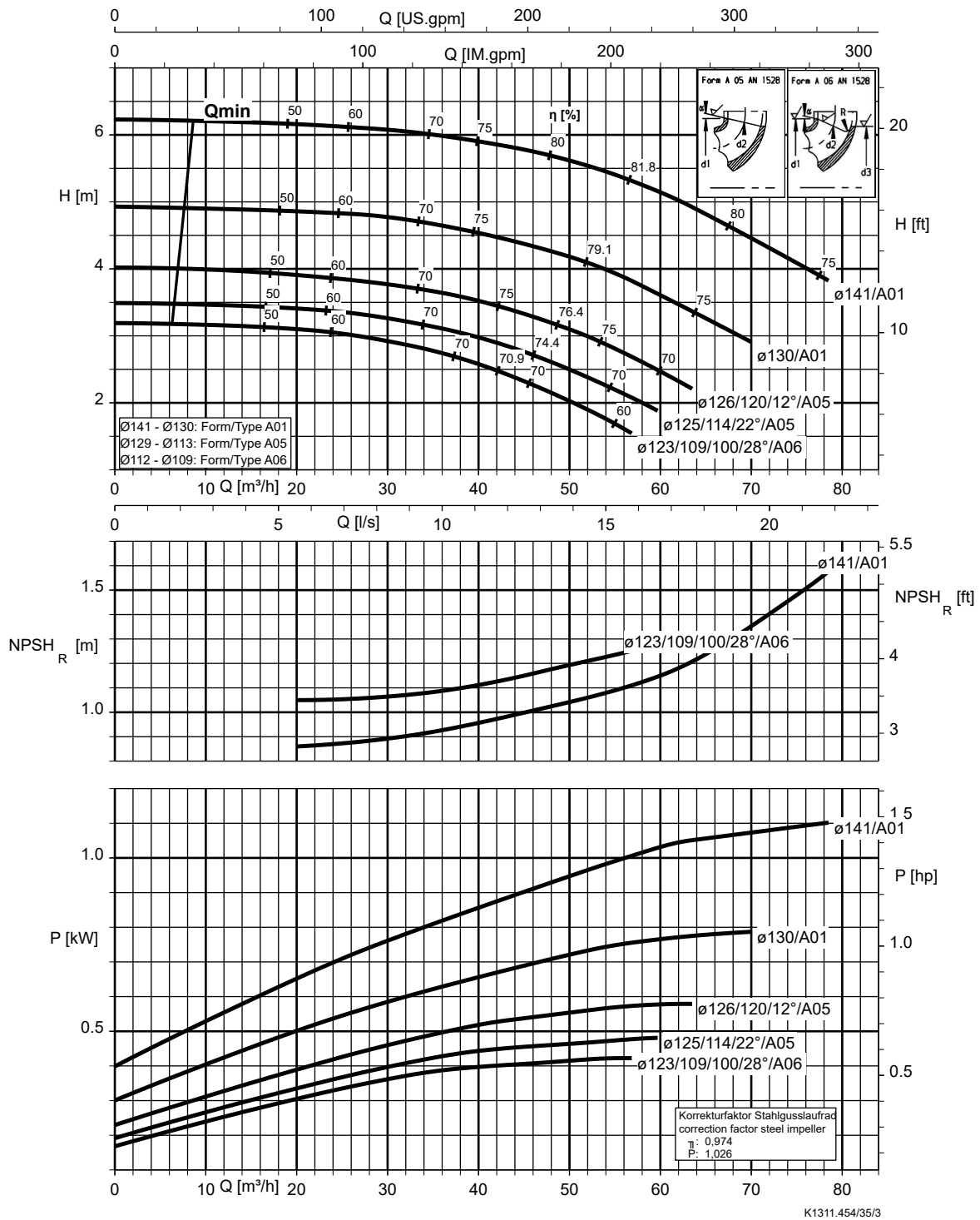
Etanorm SYT, Etanorm V, Etabloc



K1311.454/34/2

Etanorm 080-065-125,  $n = 1450 \text{ min}^{-1}$

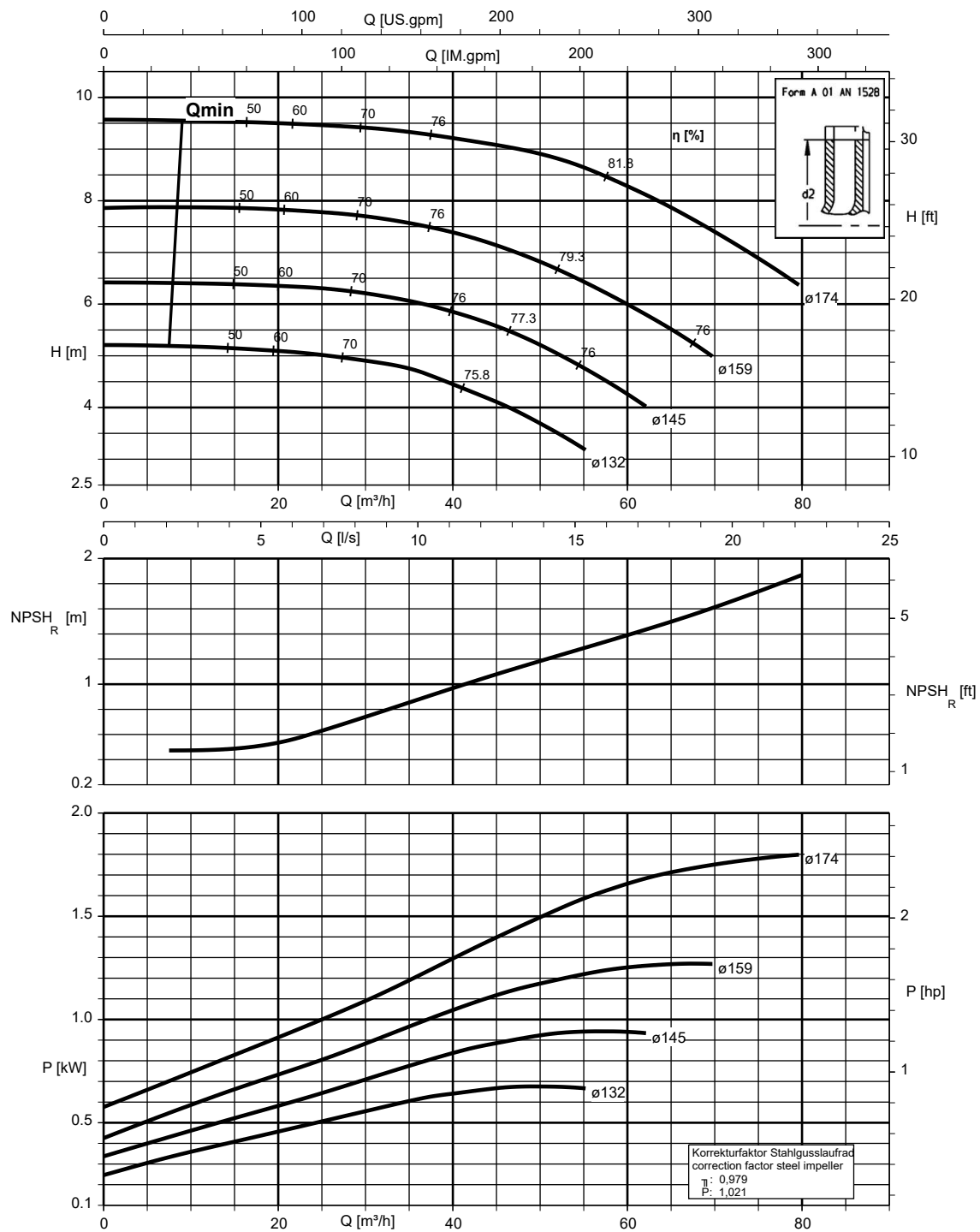
Etanorm V, Etabloc



K1311.454/35/3

Etanorm 080-065-160,  $n = 1450 \text{ min}^{-1}$

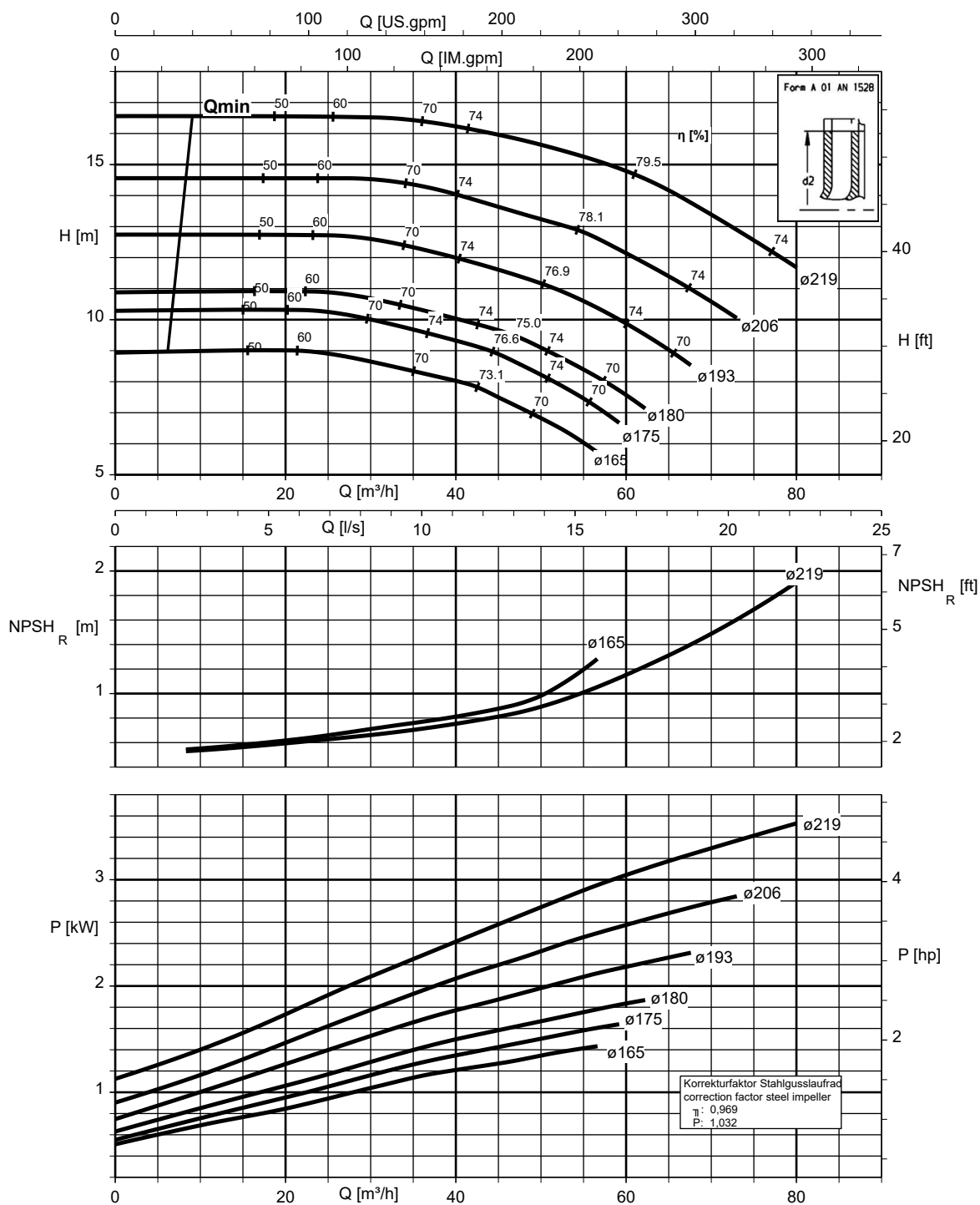
Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



K1311.454/36/2

Etanorm 080-065-200,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT

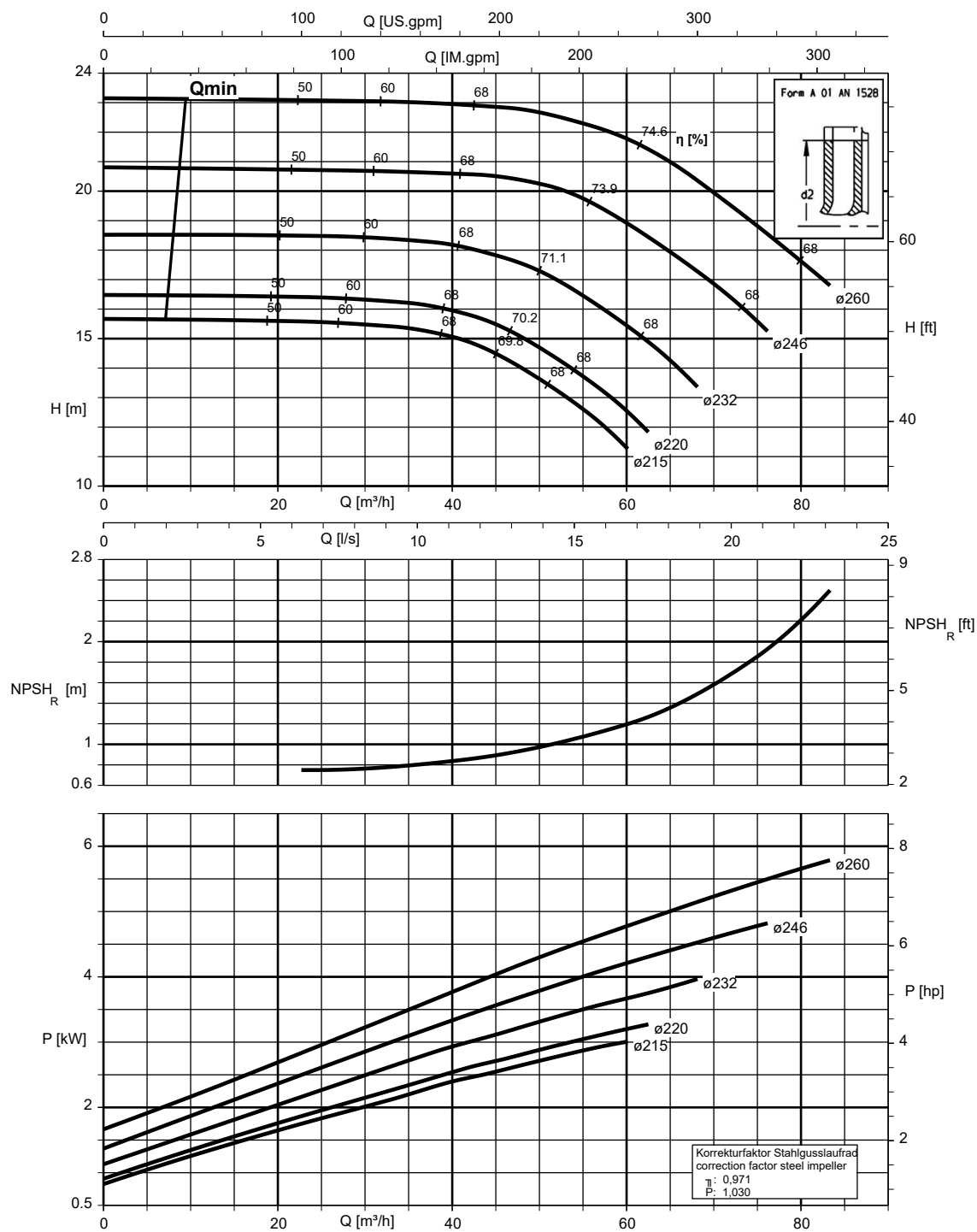


K1311.454/37/2

1311.45/11-DE

Etanorm 080-065-250,  $n = 1450 \text{ min}^{-1}$

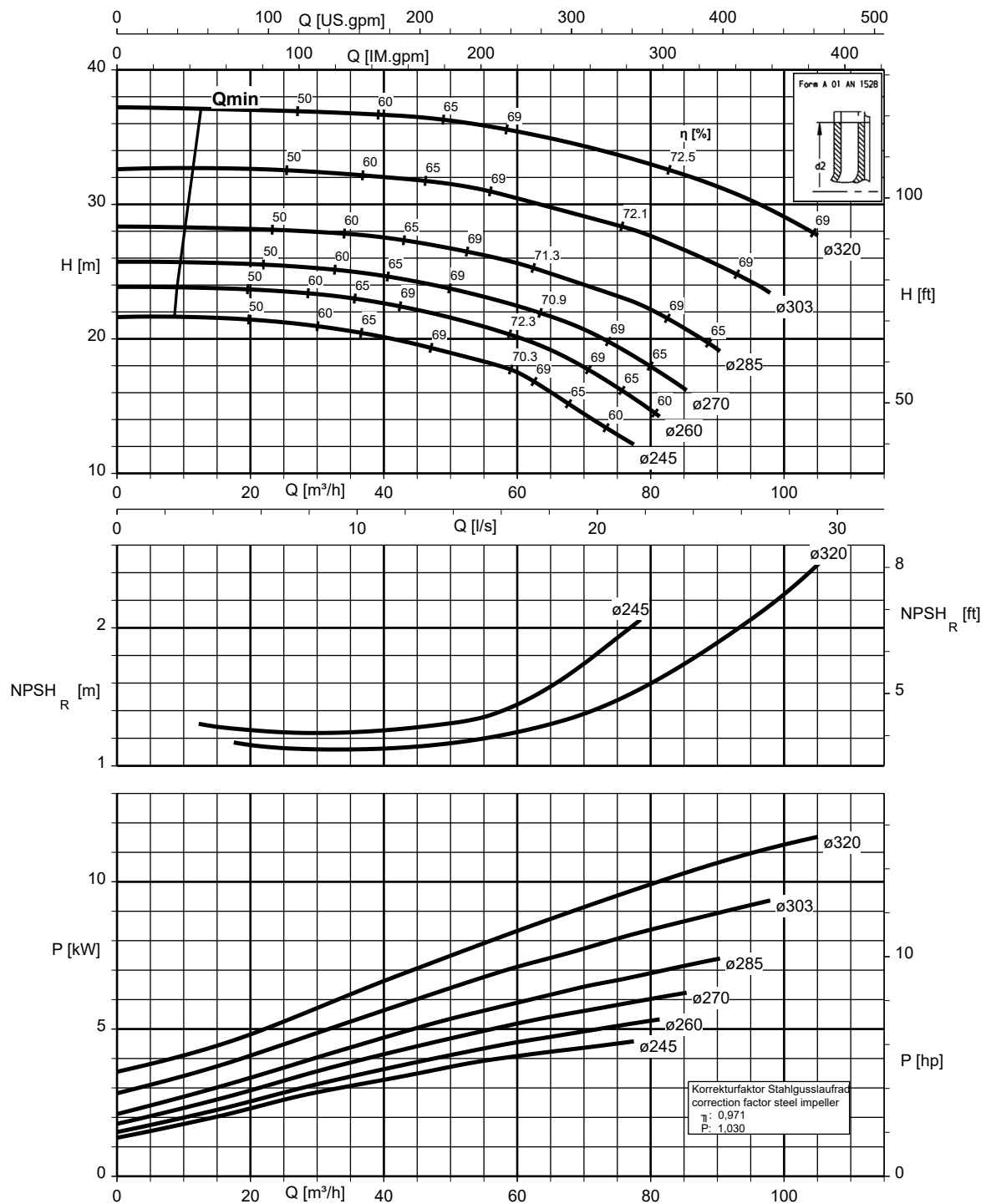
Etanorm SYT, Etanorm V, Etabloc



K1311.454/38/2

Etanorm 080-065-315,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc

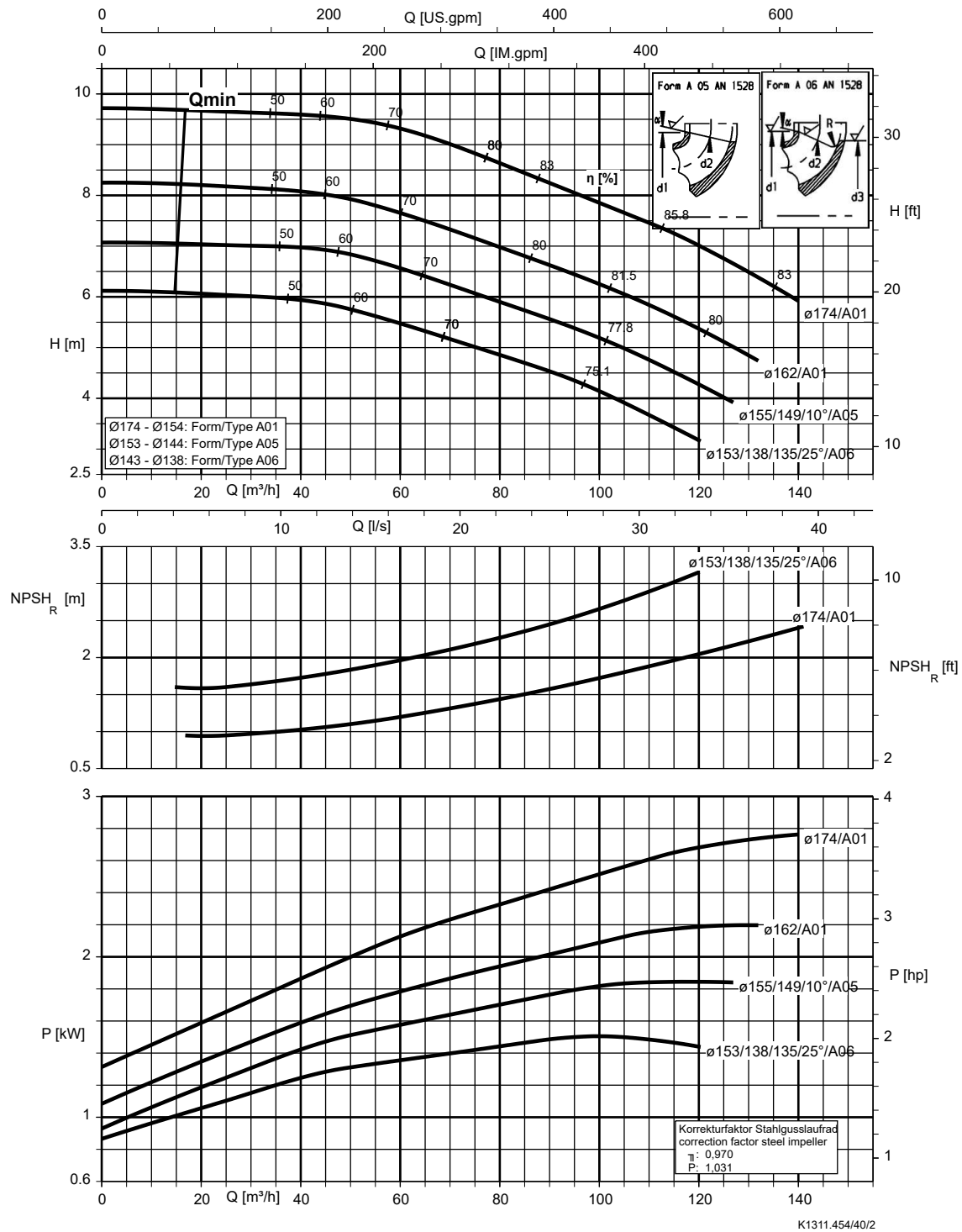


K1311.454/39/2

1311.45/11-DE

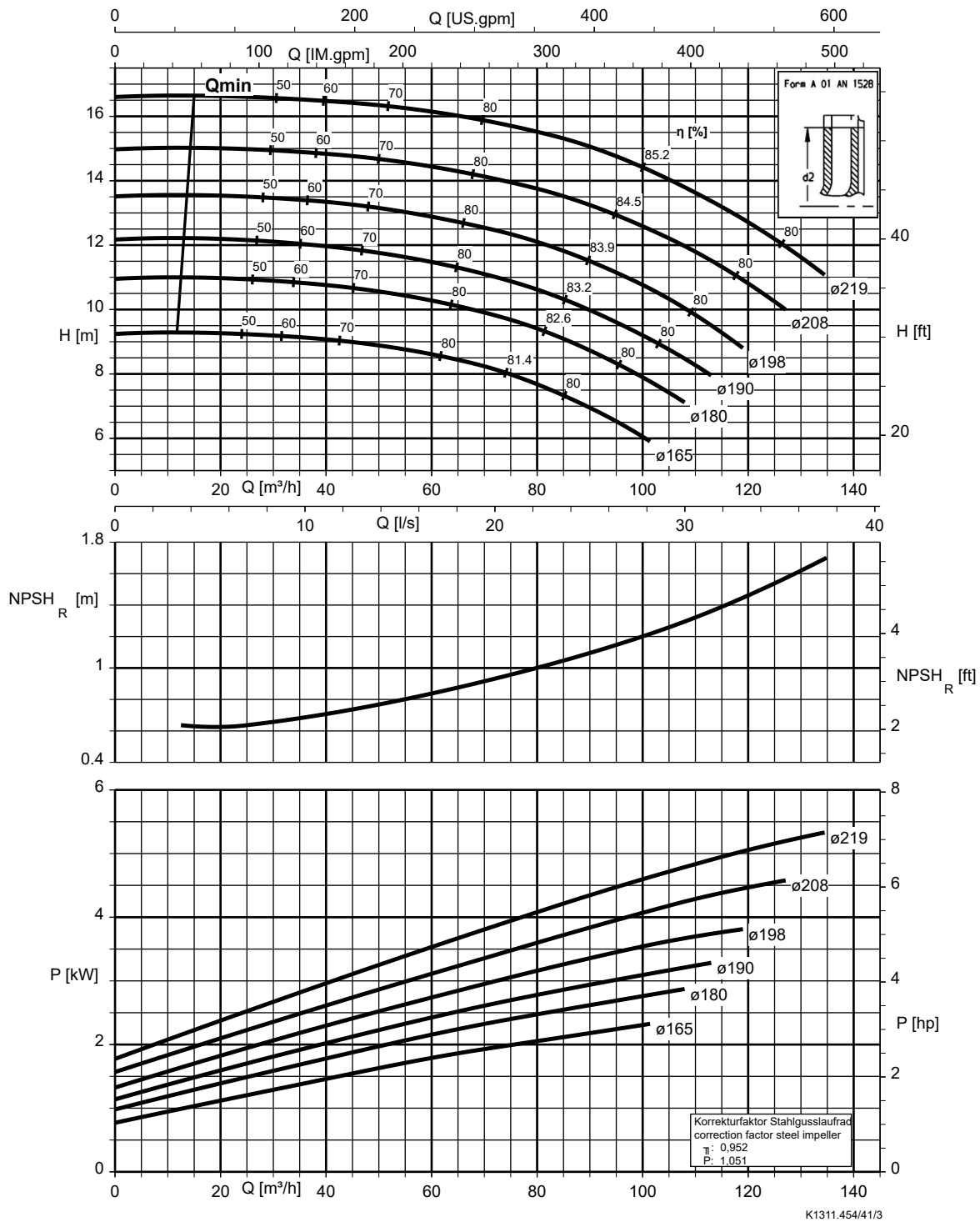
Etanorm 100-080-160,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc, Etabloc SYT



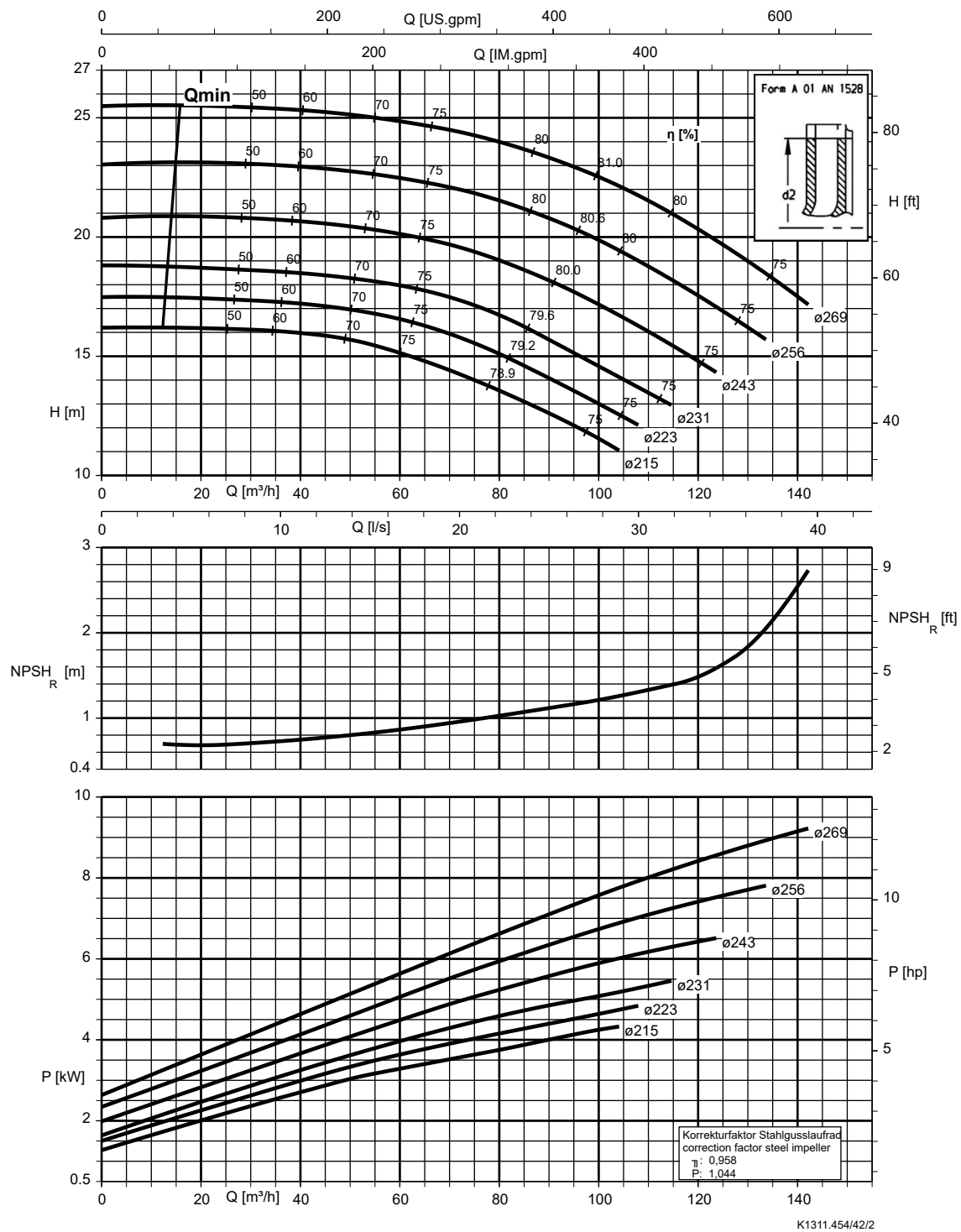
Etanorm 100-080-200,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



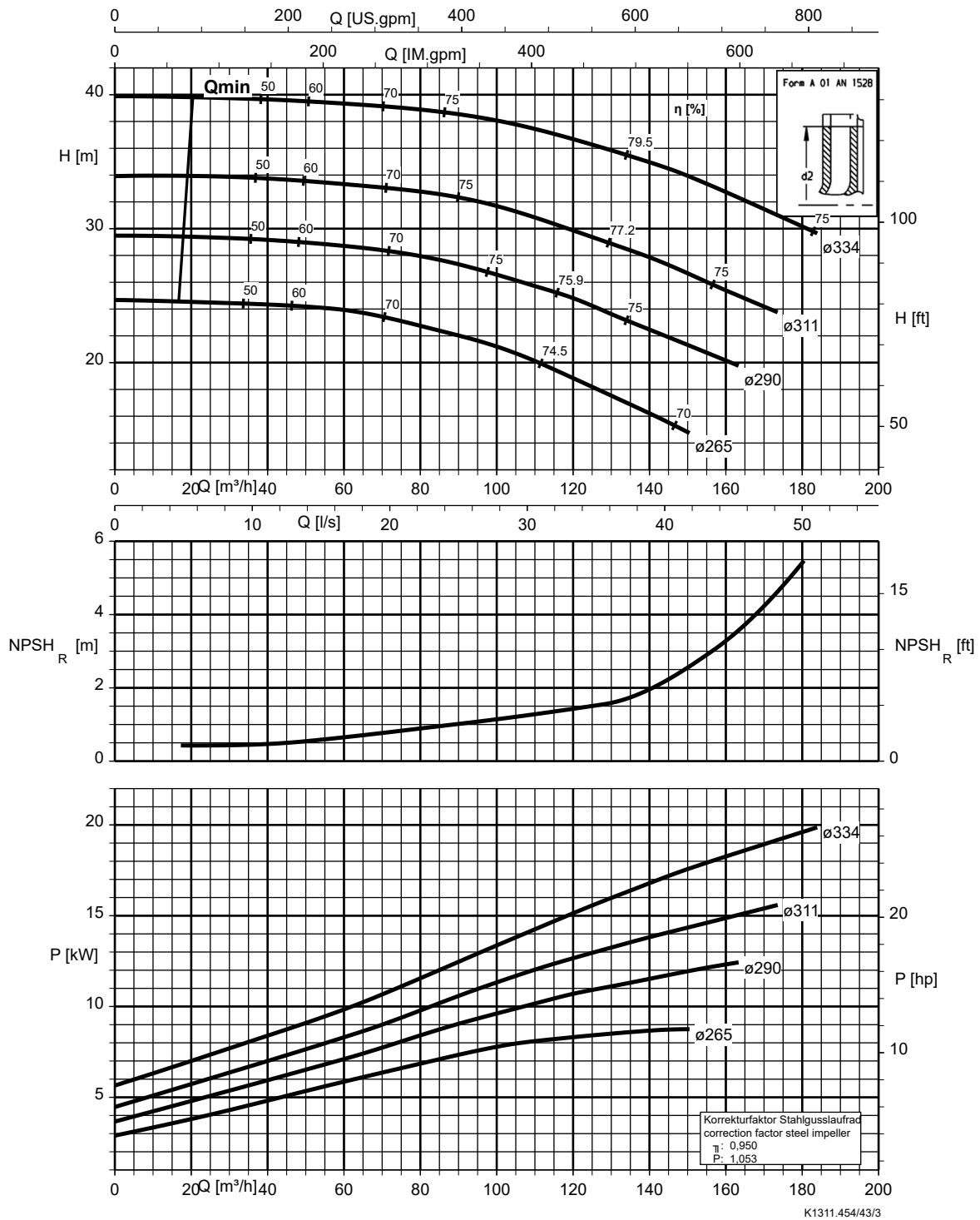
Etanorm 100-080-250,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



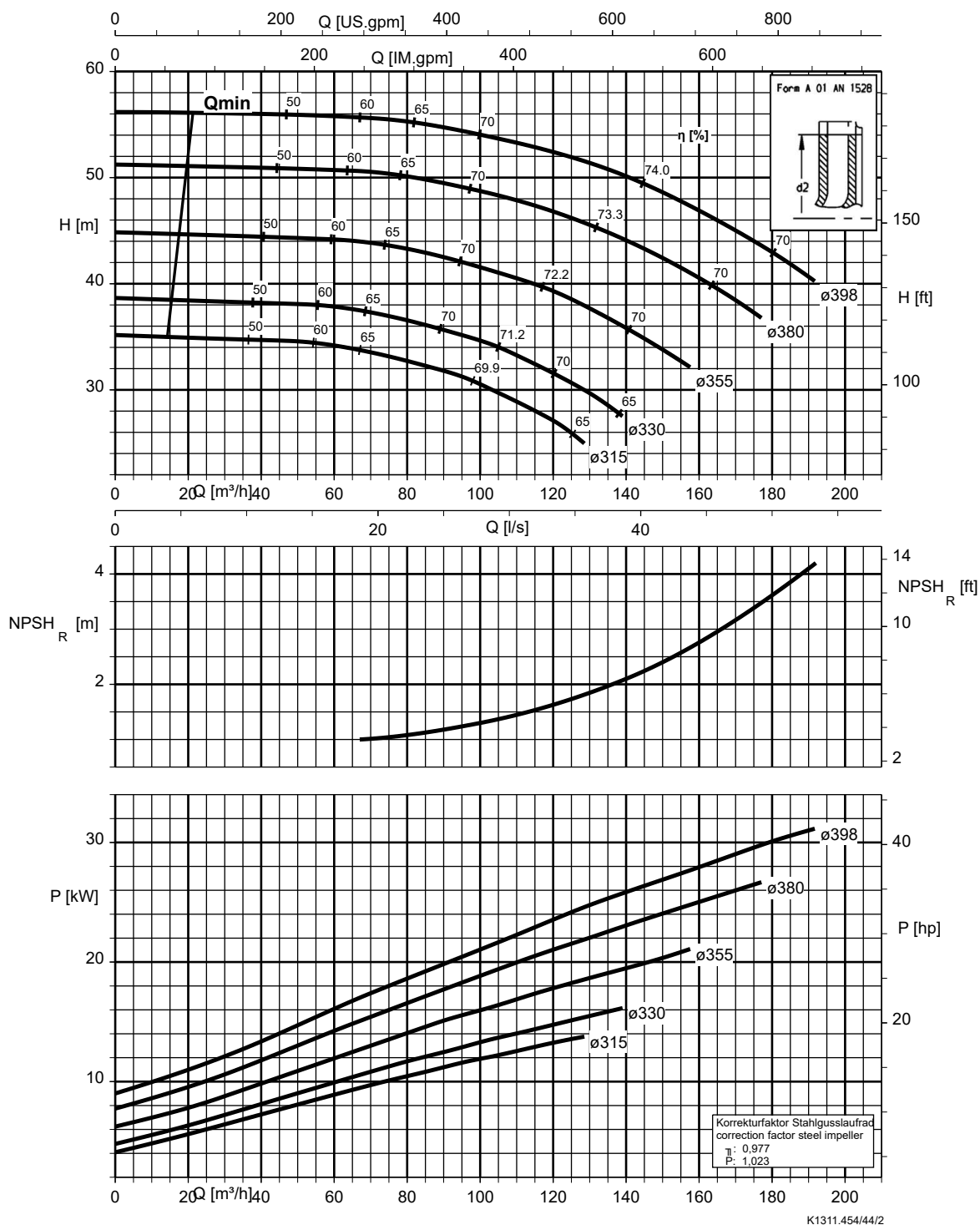
Etanorm 100-080-315,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



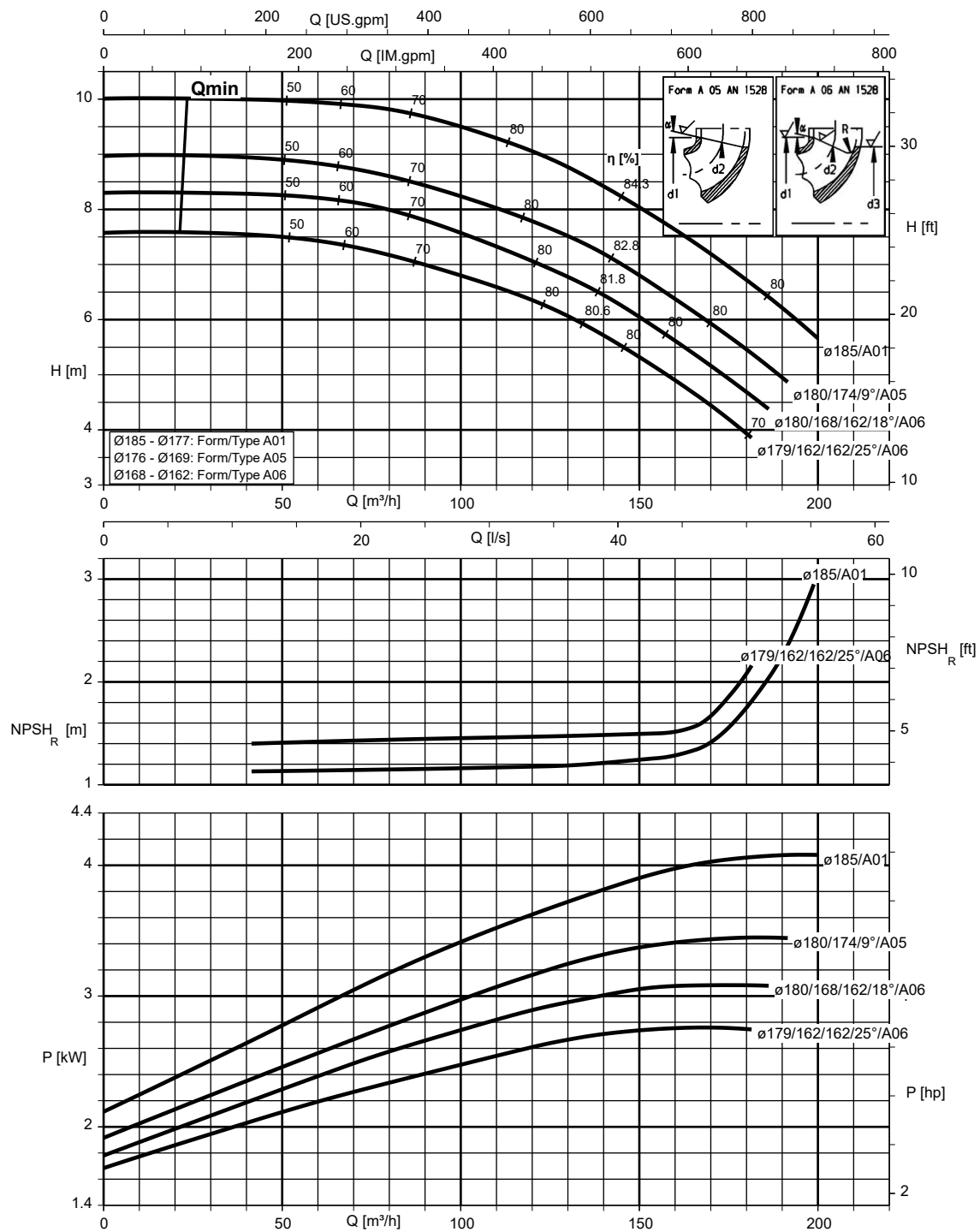
Etanorm 100-080-400,  $n = 1450 \text{ min}^{-1}$

Etanorm V, Etabloc



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

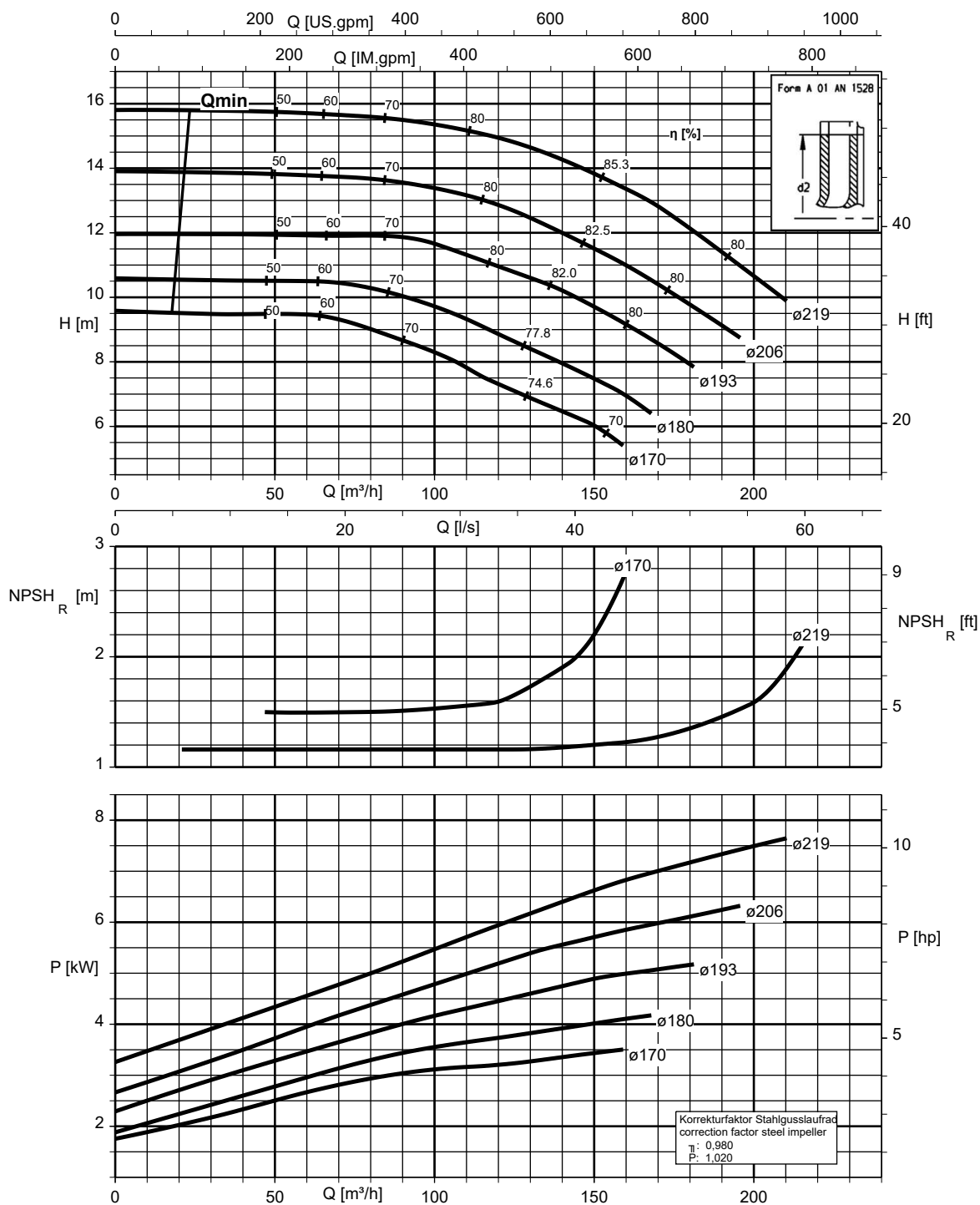
Etanorm SYT, Etanorm V, Etabloc



K1311.454/45/2

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

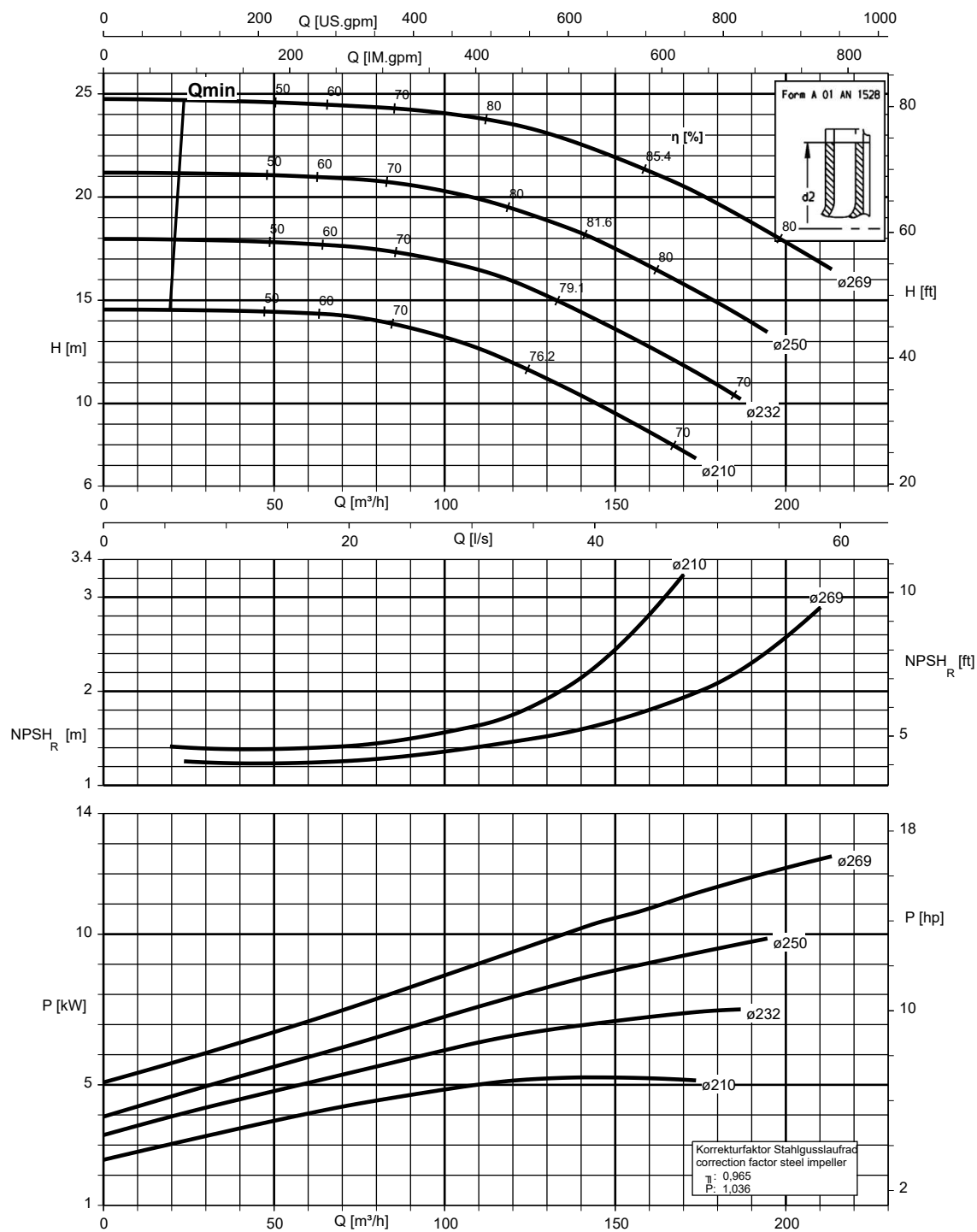
Etanorm SYT, Etanorm V, Etabloc



K1311.454/46/2

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

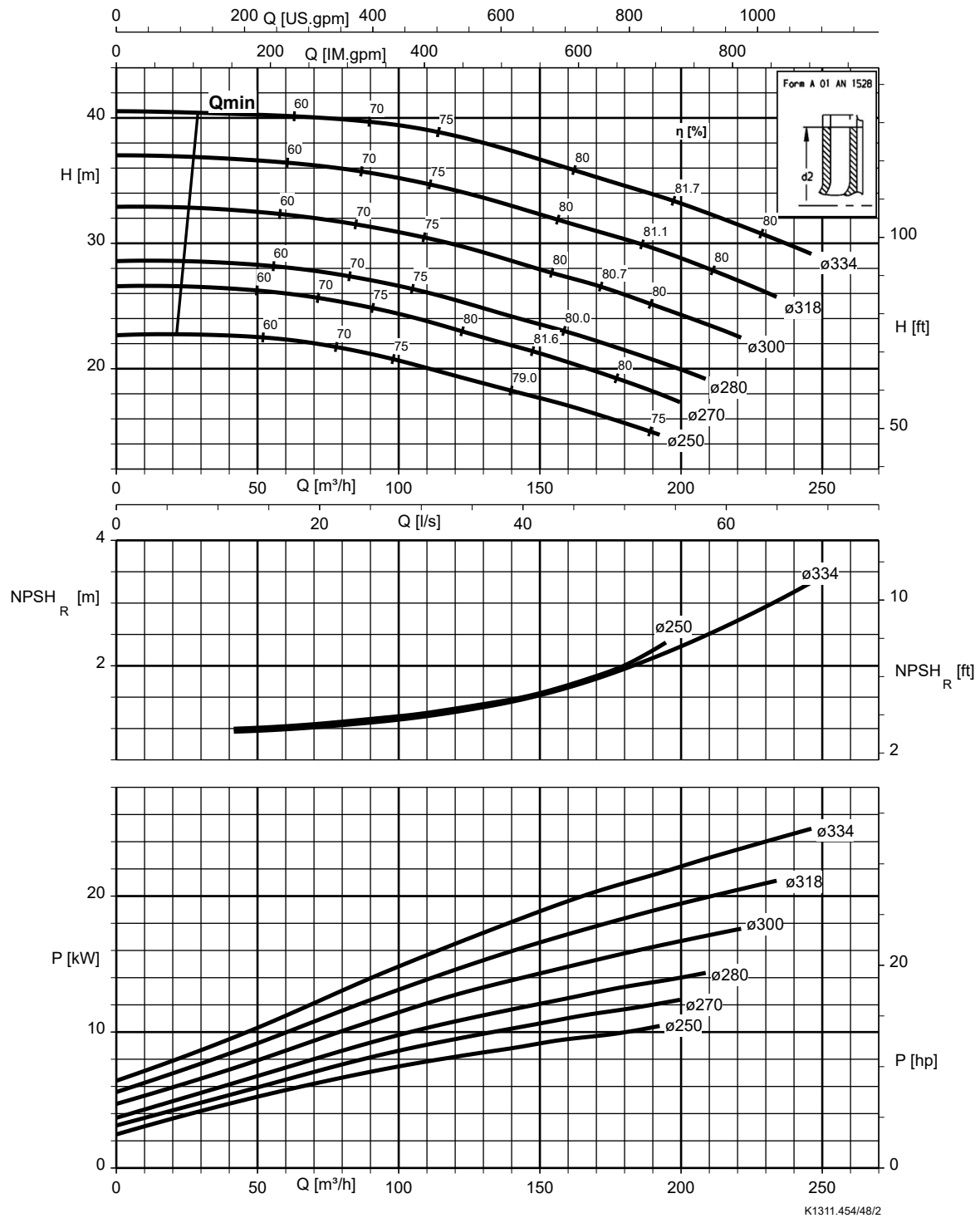
Etanorm SYT, Etanorm V, Etabloc



K1311.454/47/2

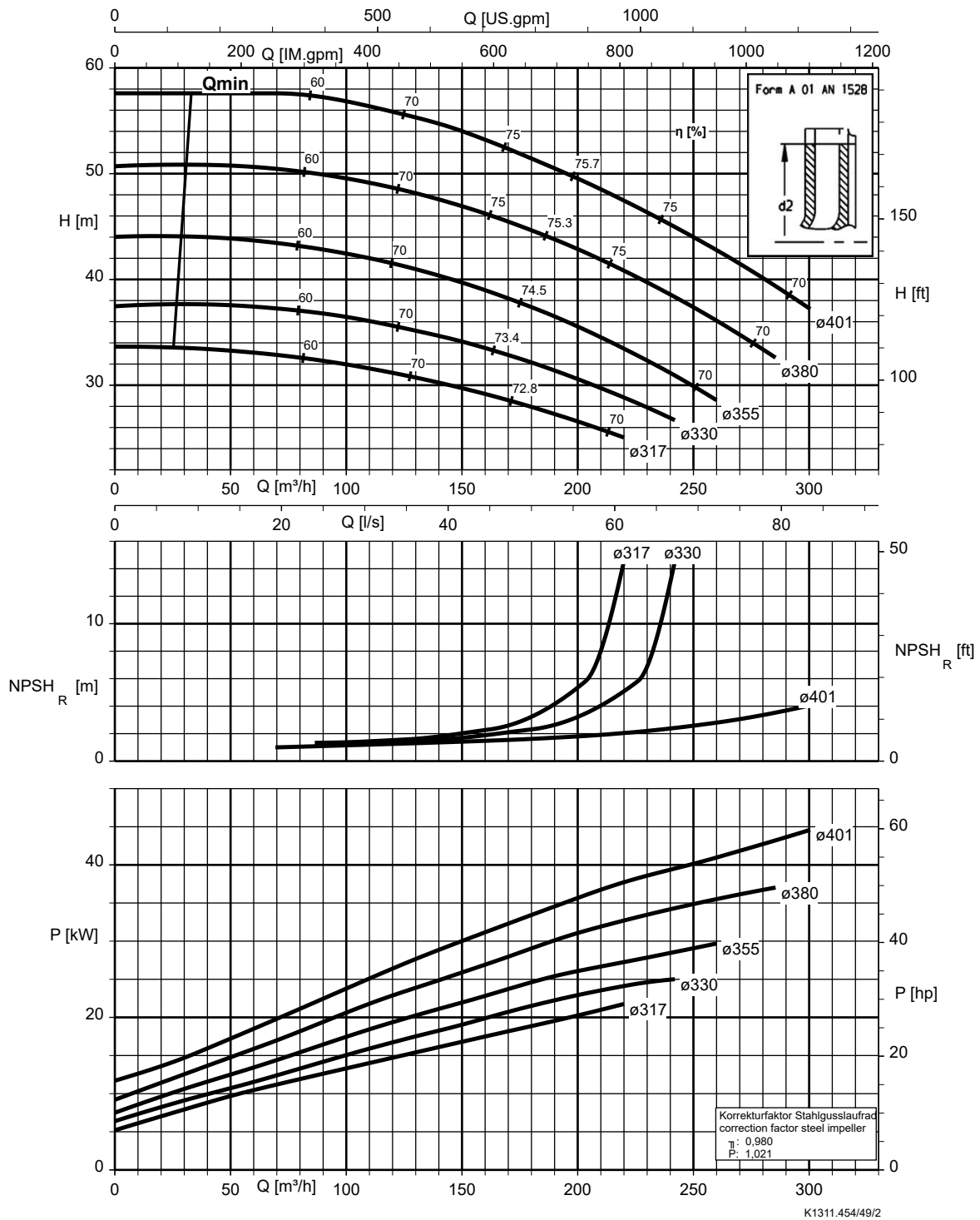
Etanorm 125-100-315,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



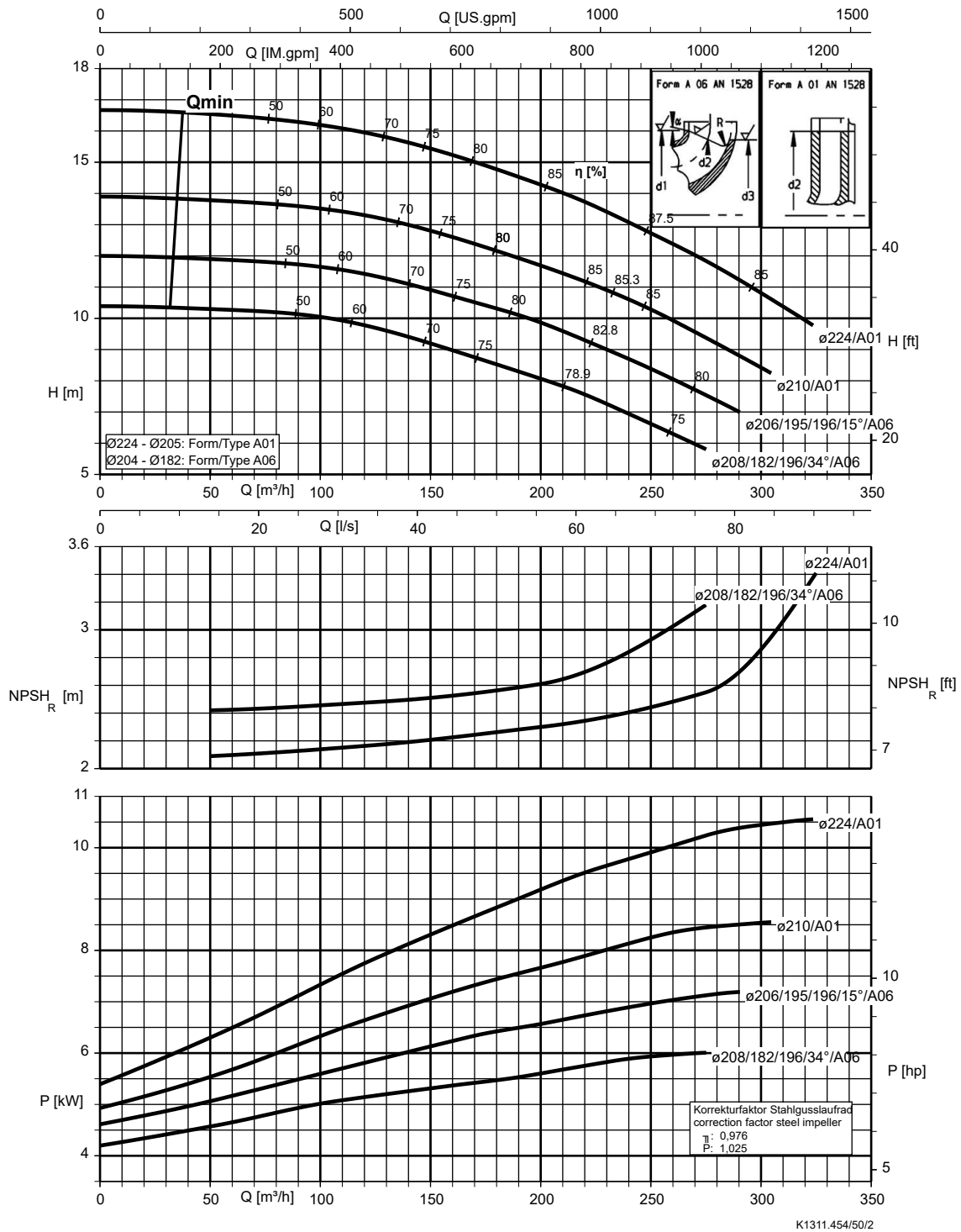
Etanorm 125-100-400,  $n = 1450 \text{ min}^{-1}$

Etanorm V, Etabloc



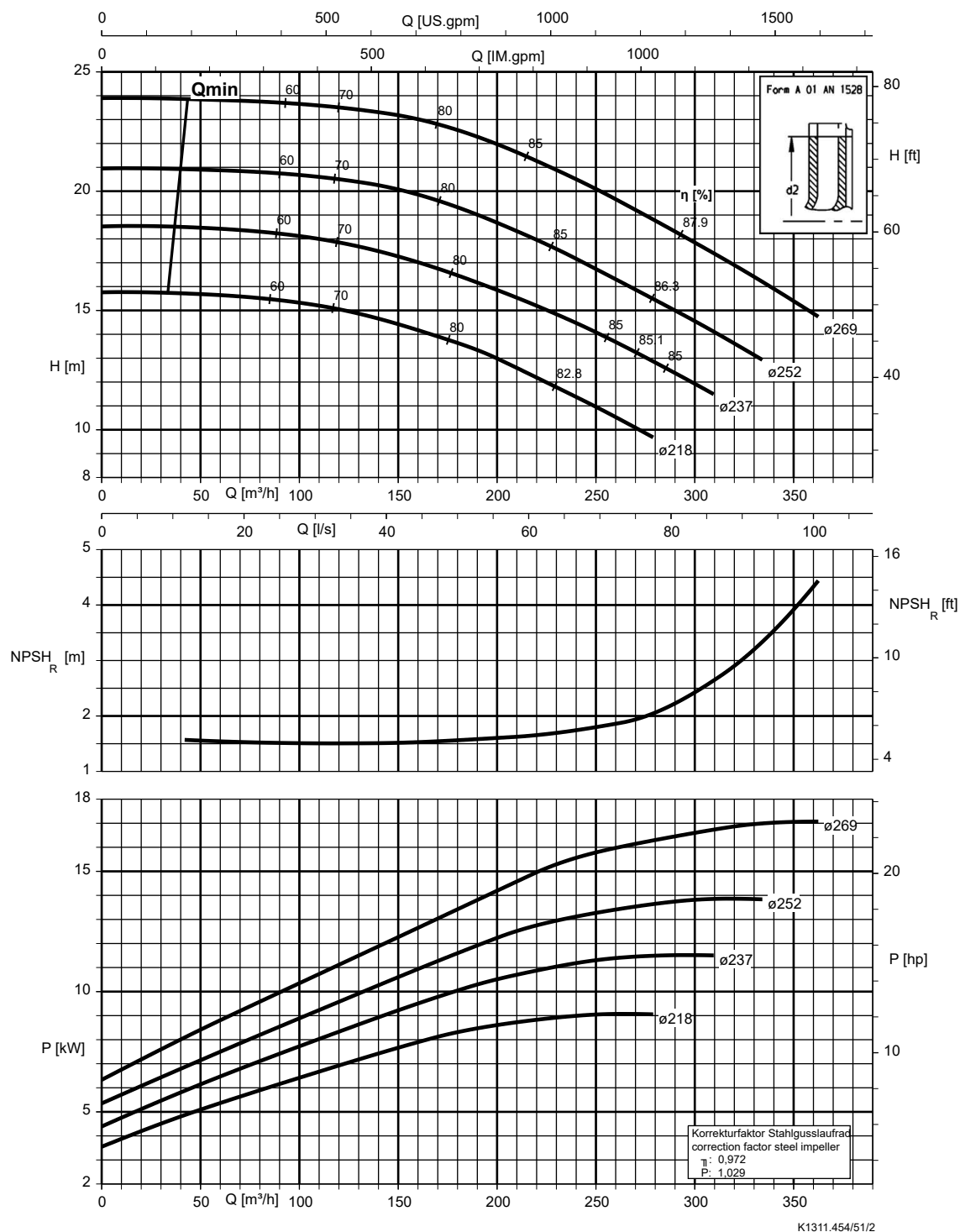
Etanorm 150-125-200,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



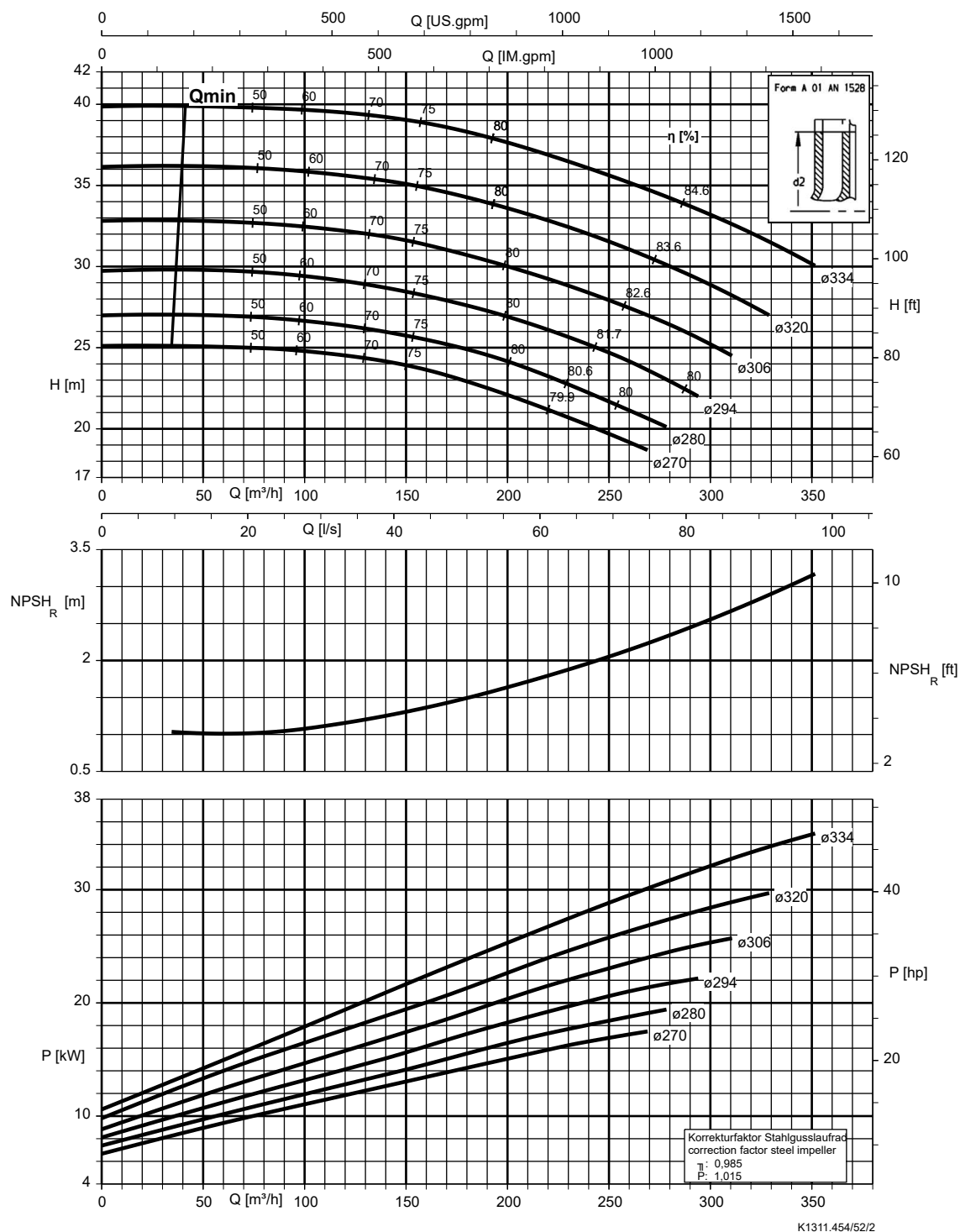
Etanorm 150-125-250,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc



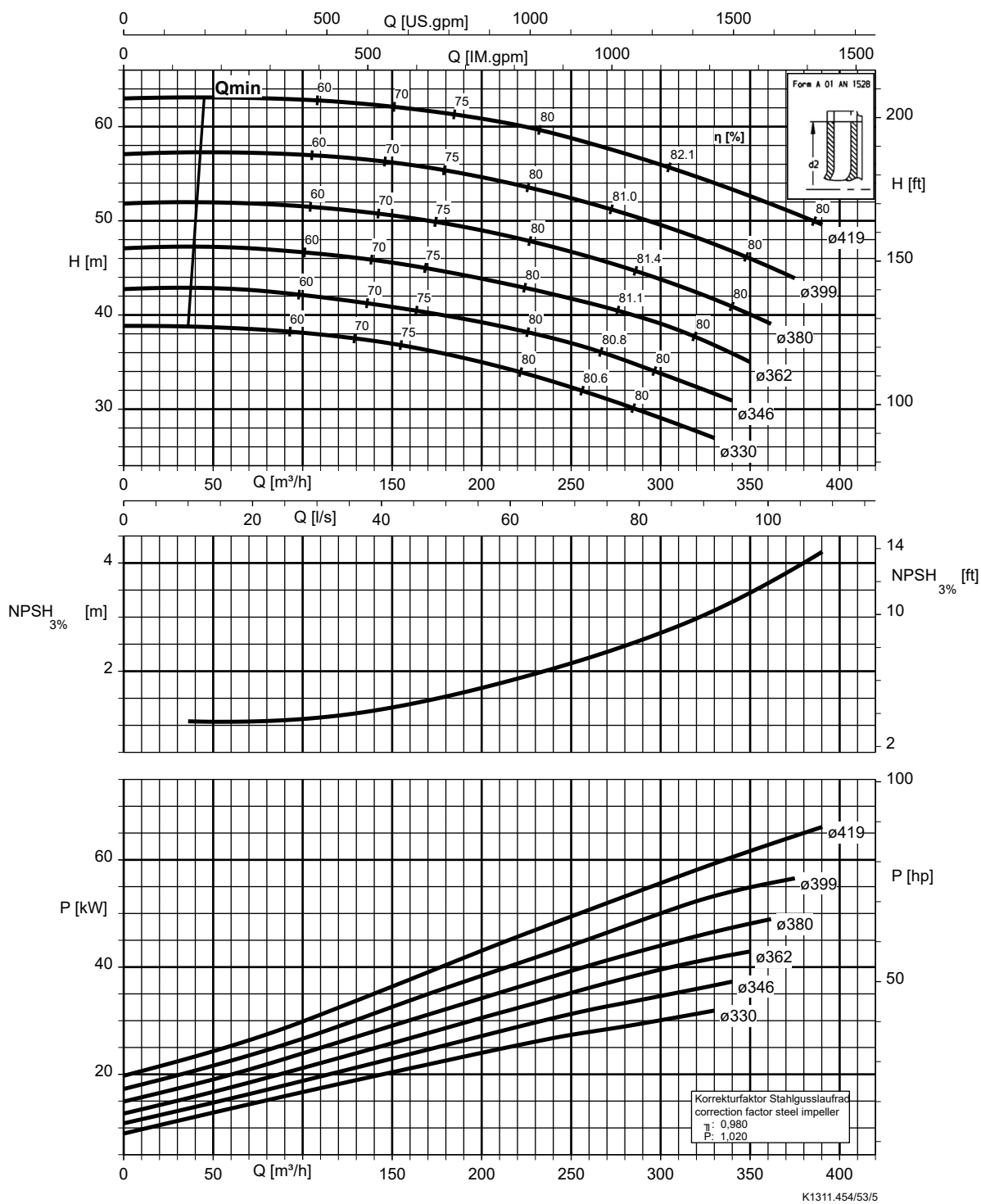
# Etanorm 150-125-315, $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc

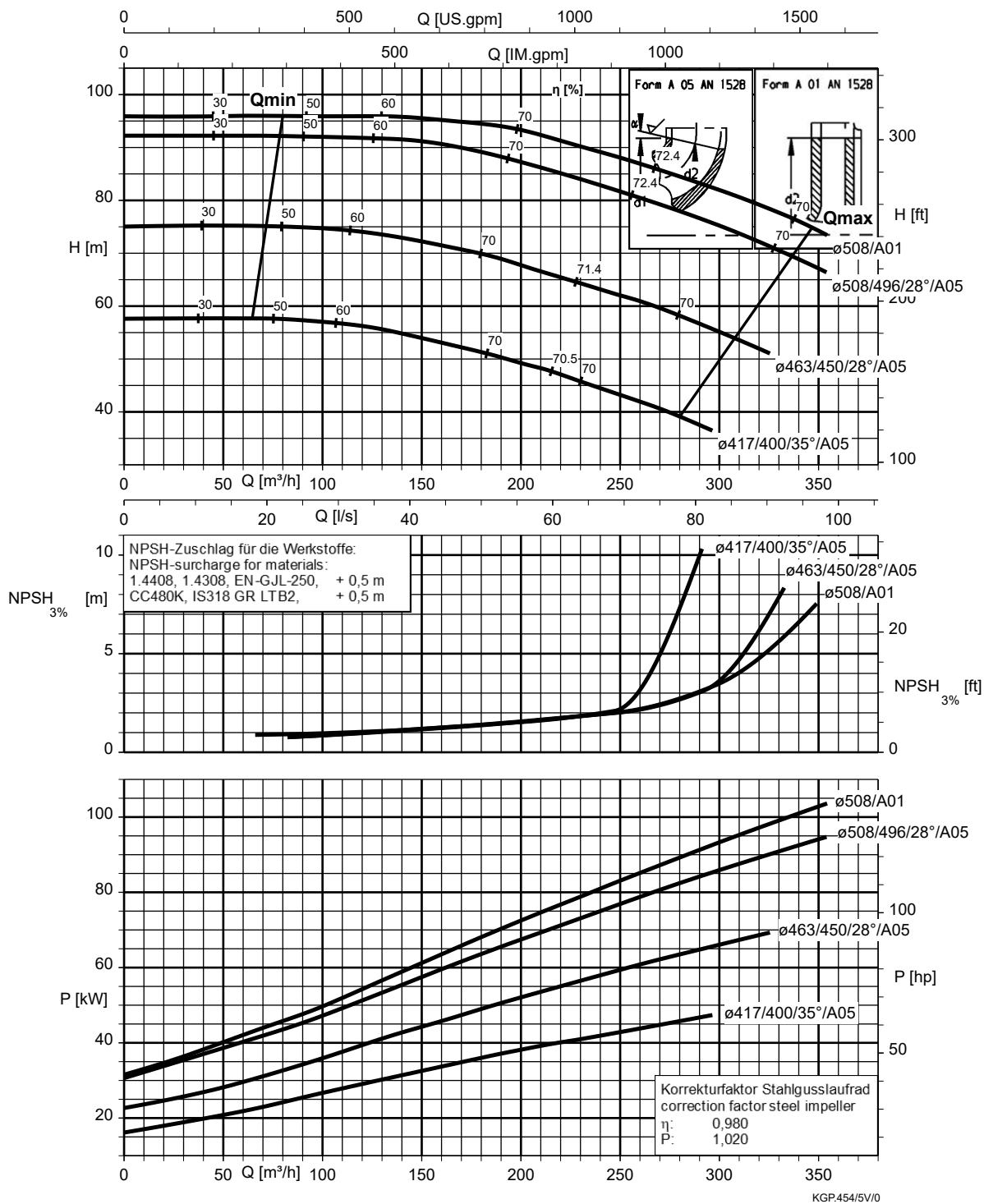


Etanorm 150-125-400,  $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc

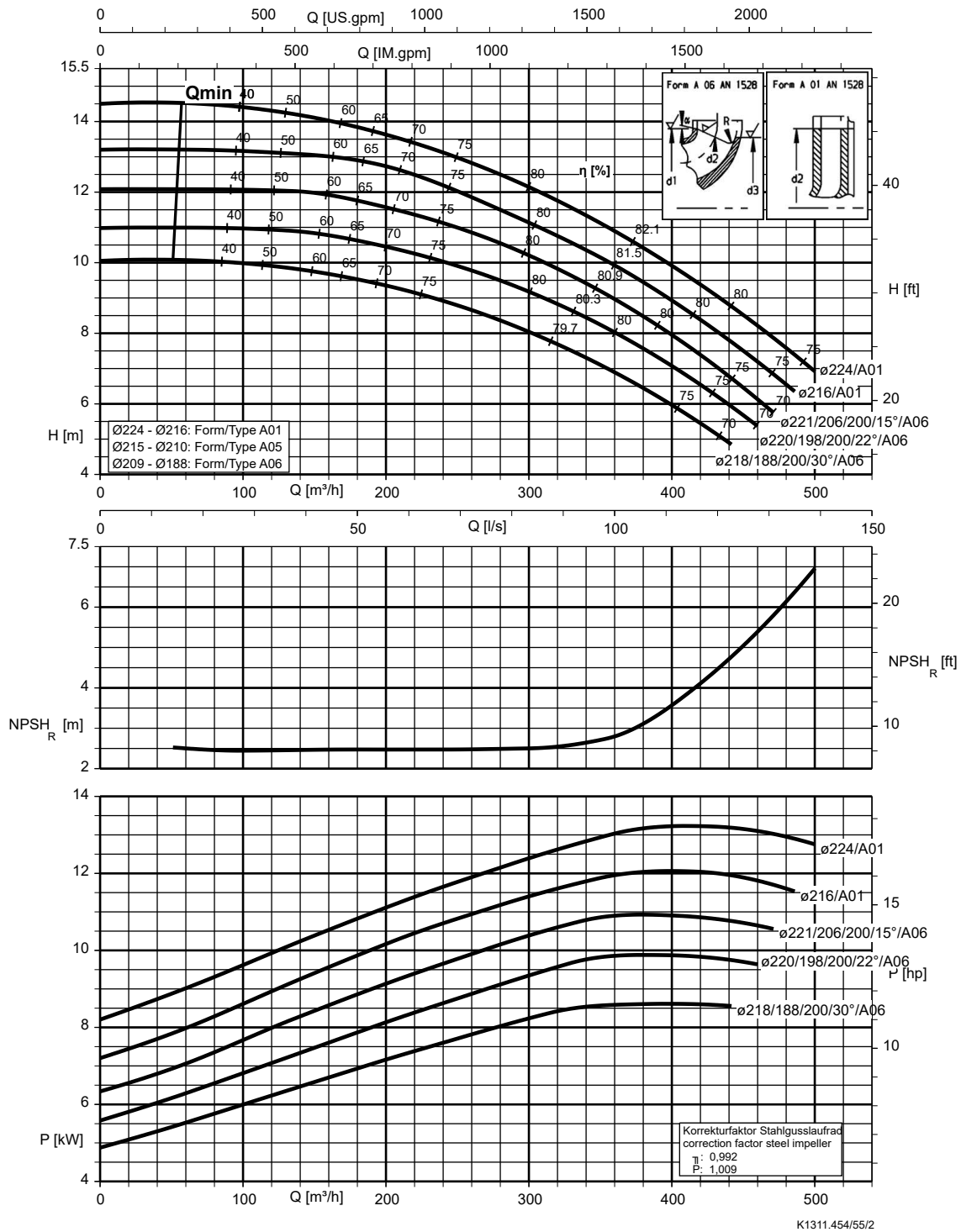


Etanorm 150-125-510,  $n = 1450 \text{ min}^{-1}$



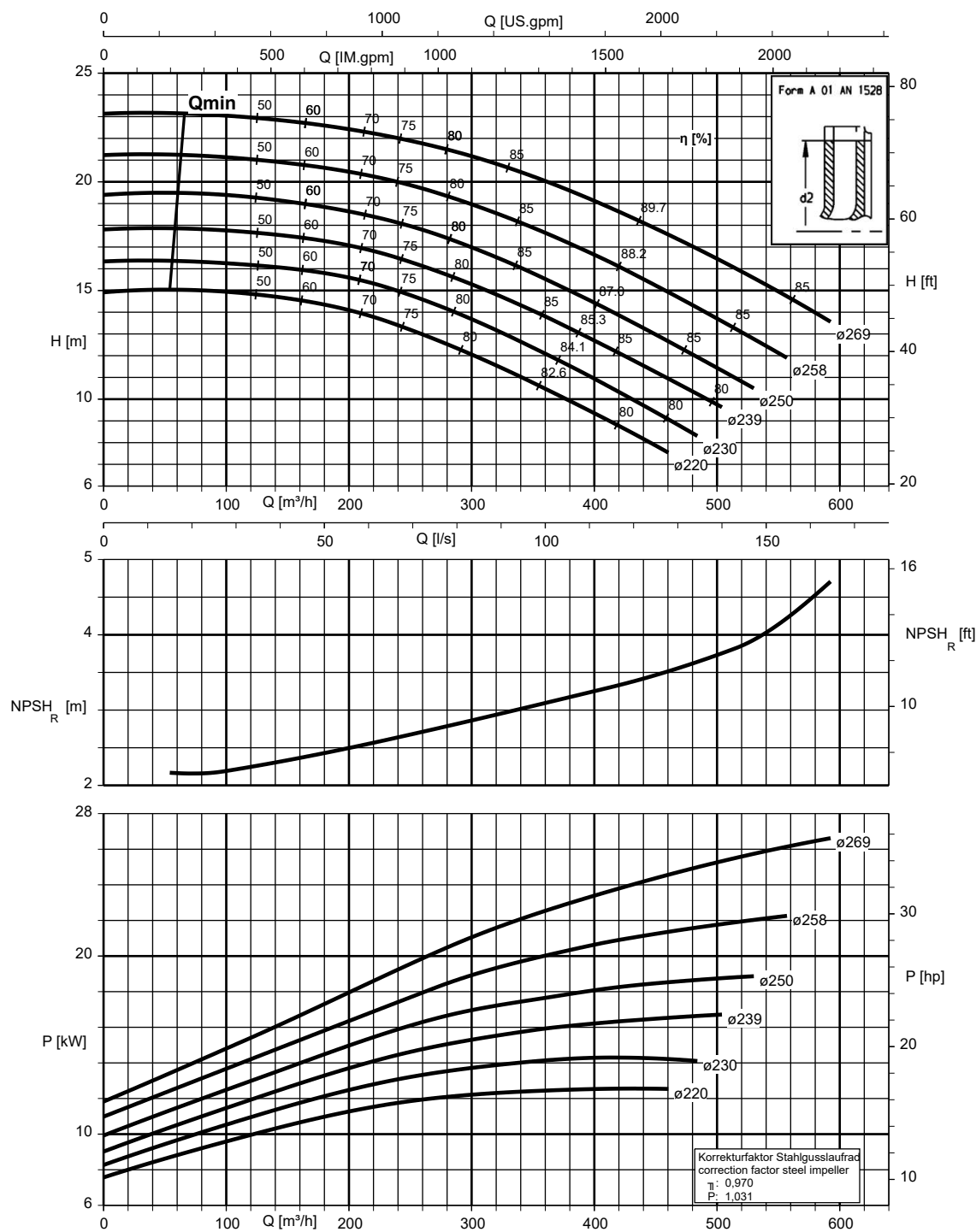
Etanorm 200-150-200,  $n = 1450 \text{ min}^{-1}$

Etanorm V, Etabloc



Etanorm 200-150-250,  $n = 1450 \text{ min}^{-1}$

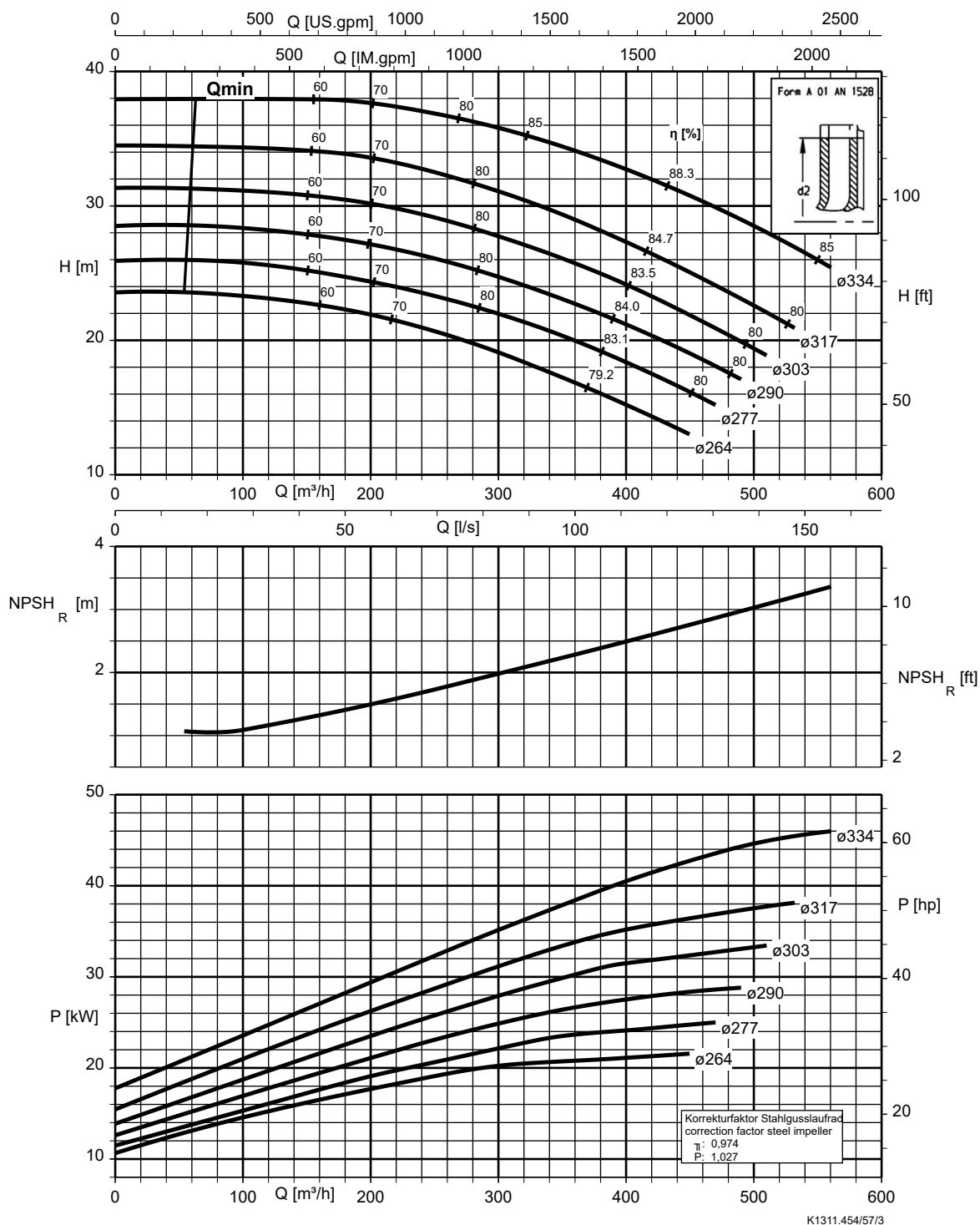
Etanorm V, Etabloc



K1311.454/56/2

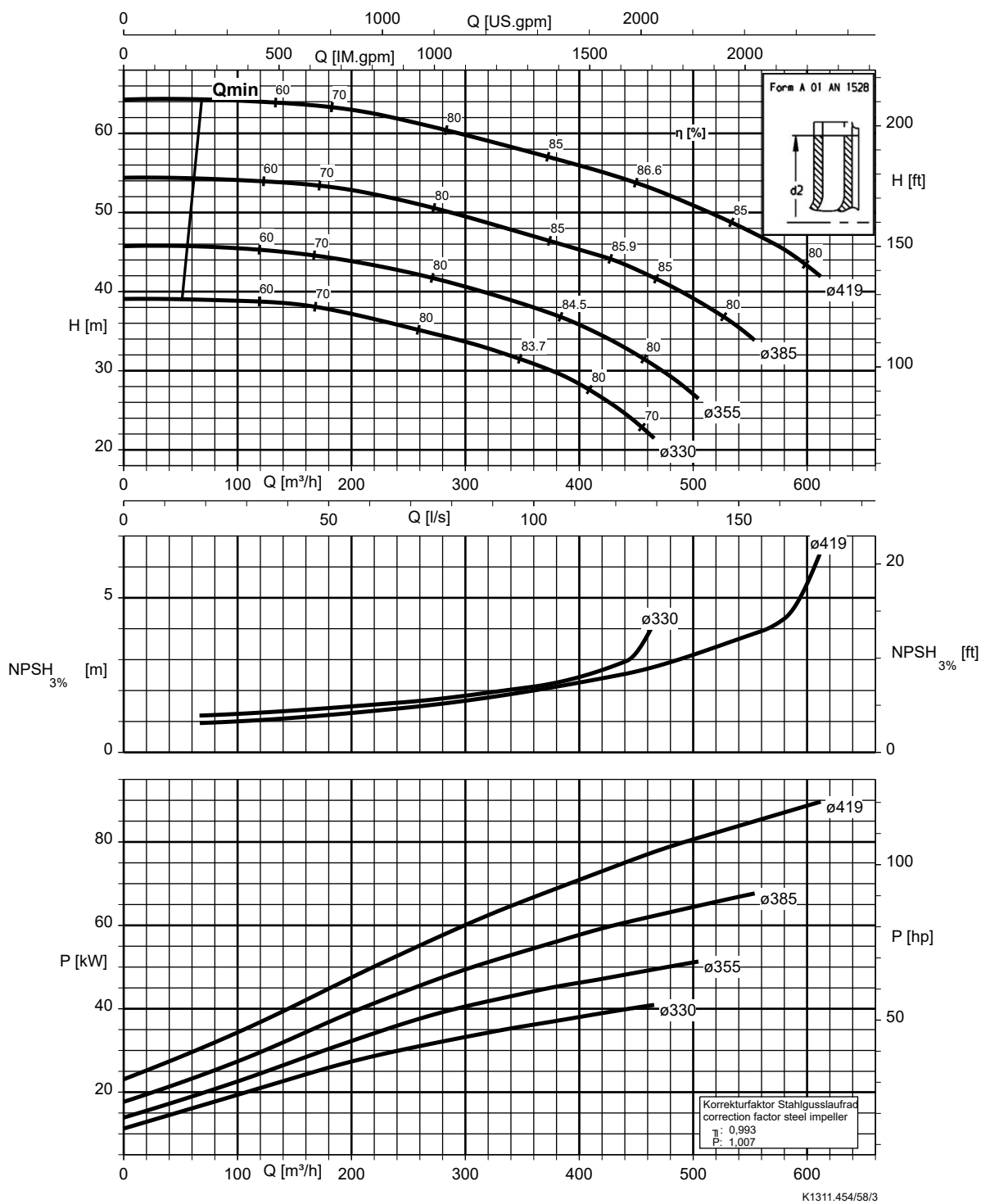
# Etanorm 200-150-315, $n = 1450 \text{ min}^{-1}$

Etanorm SYT, Etanorm V, Etabloc

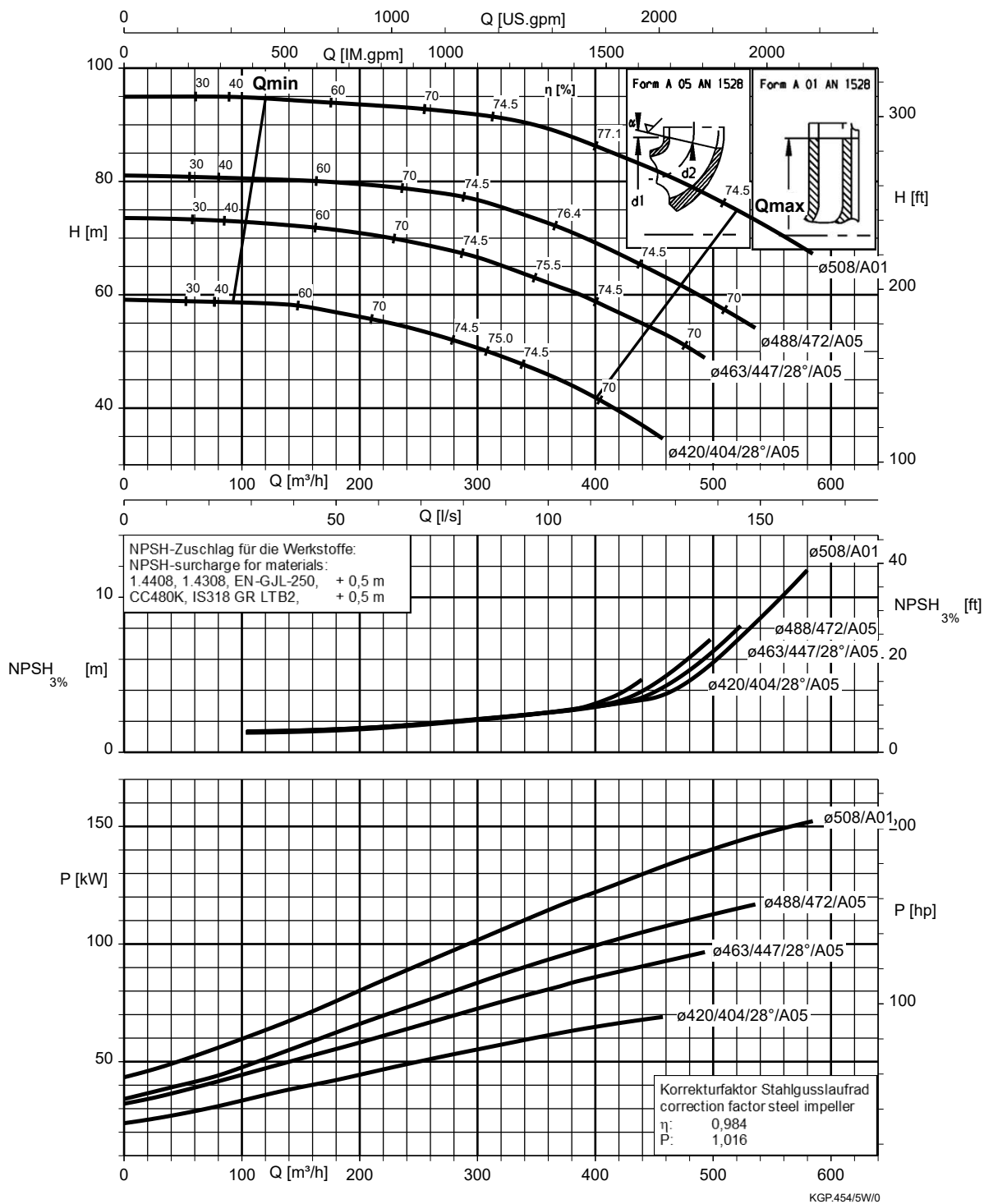


Etanorm 200-150-400,  $n = 1450 \text{ min}^{-1}$

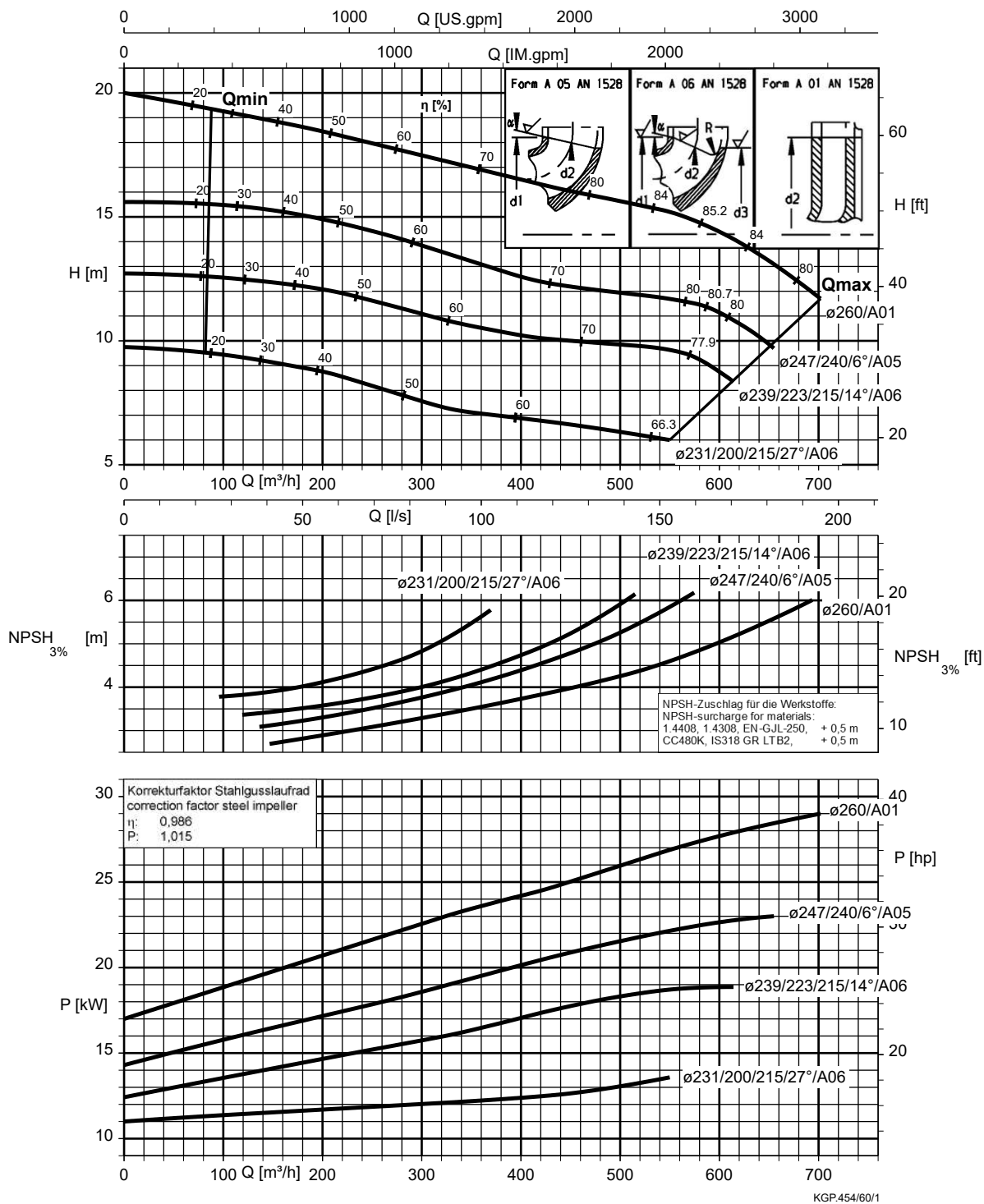
Etanorm SYT, Etanorm V, Etabloc



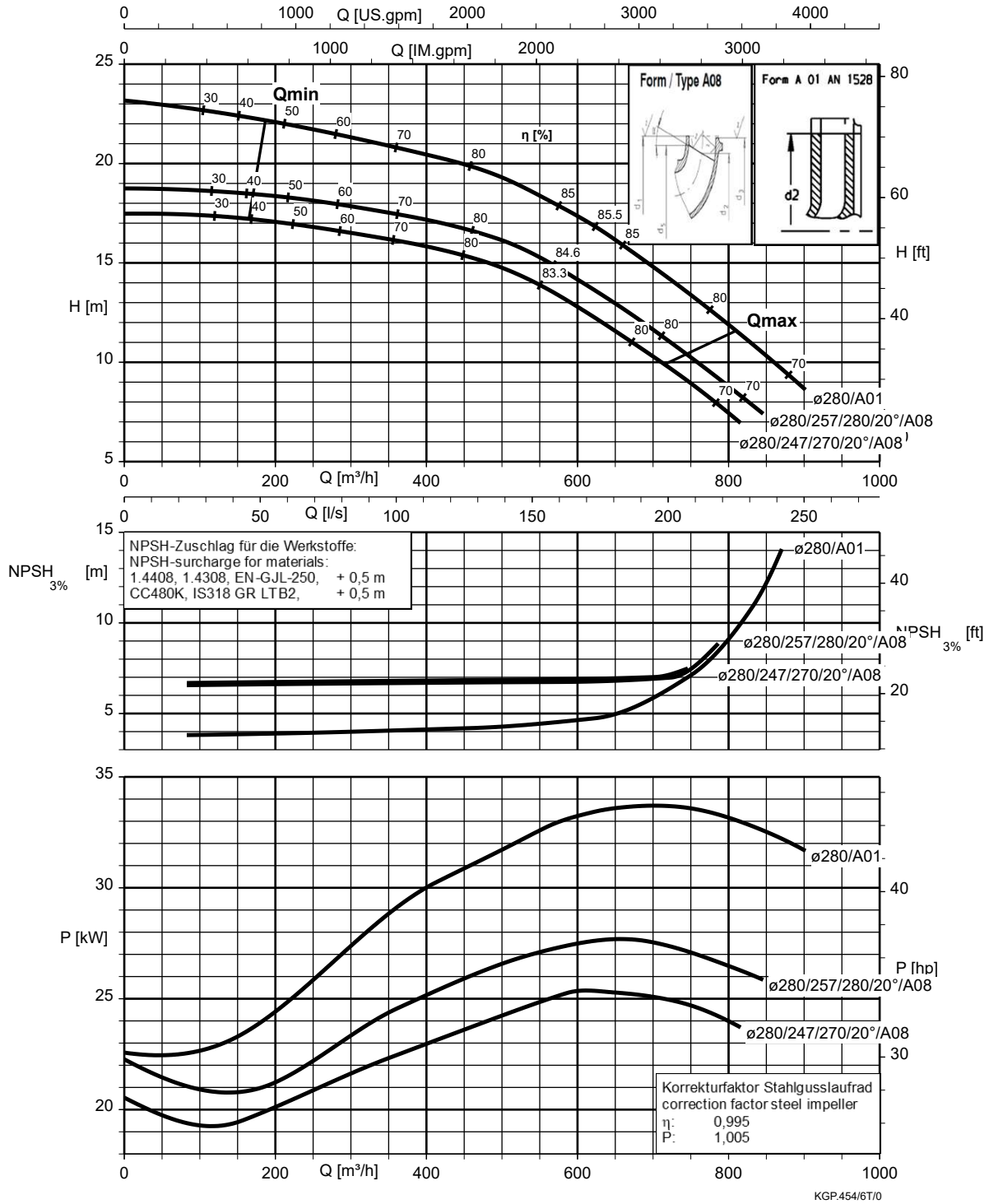
Etanorm 200-150-510,  $n = 1450 \text{ min}^{-1}$



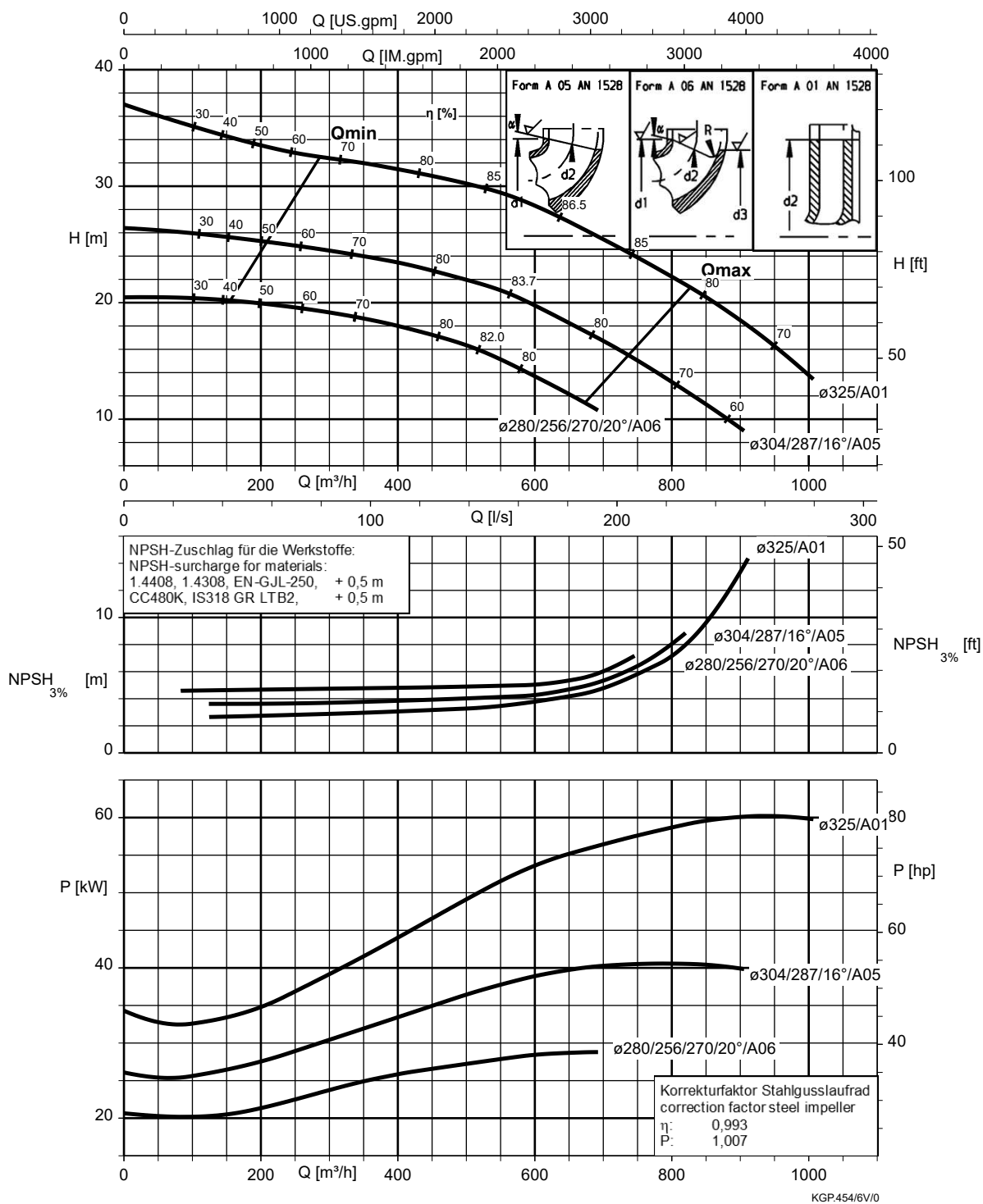
Etanorm 200-200-250,  $n = 1450 \text{ min}^{-1}$



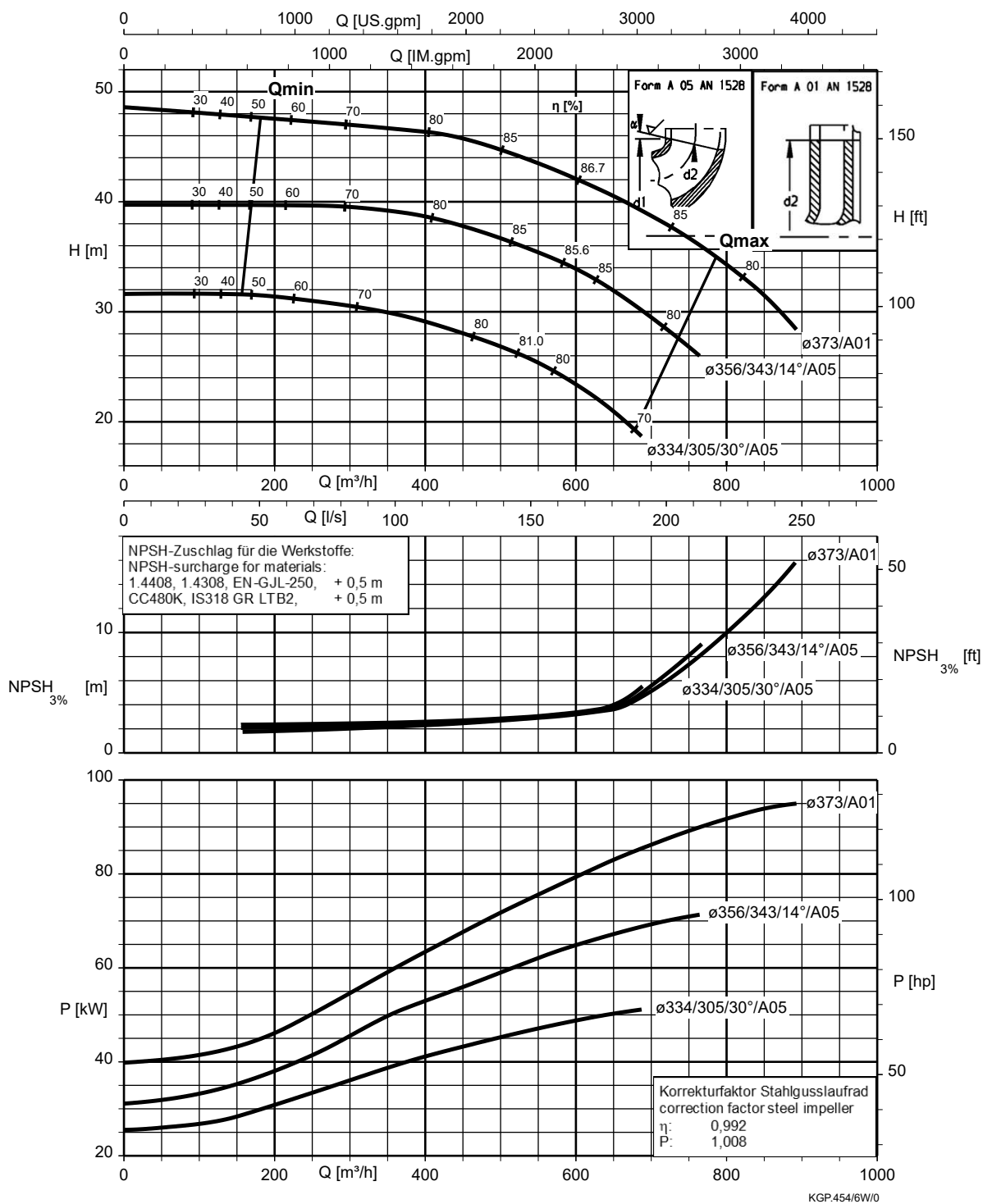
Etanorm 250-200-275,  $n = 1450 \text{ min}^{-1}$



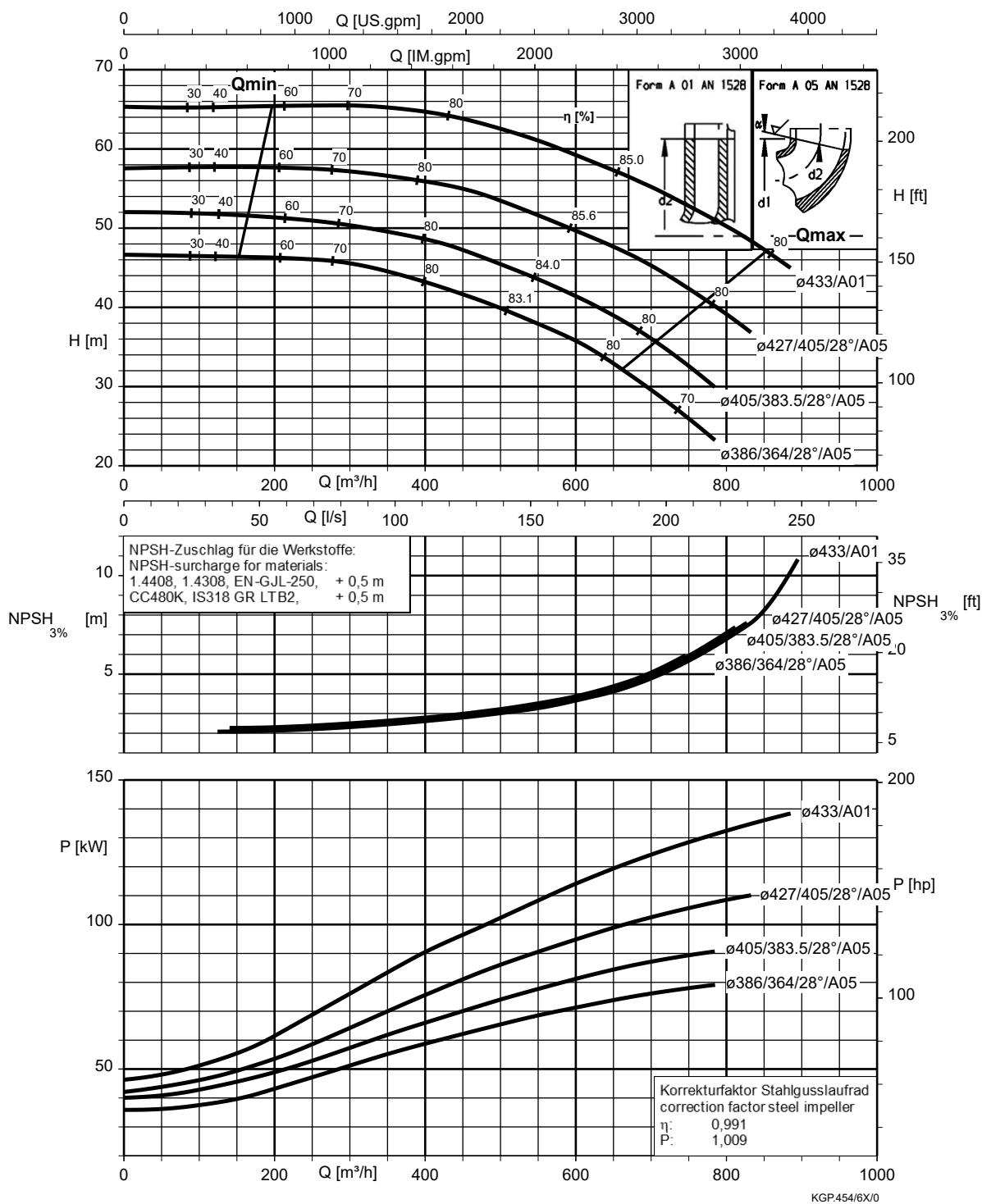
Etanorm 250-200-320,  $n = 1450 \text{ min}^{-1}$



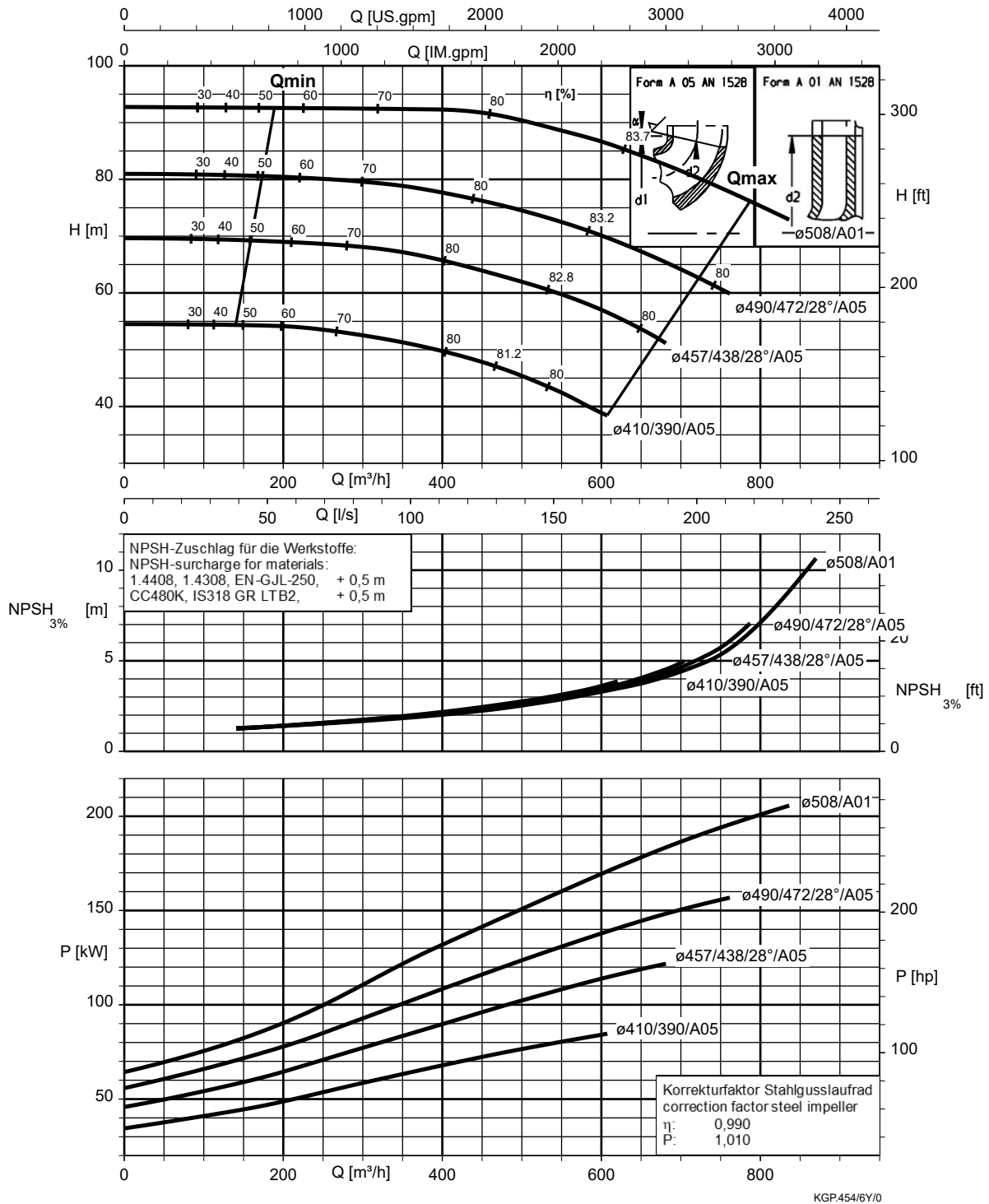
Etanorm 250-200-375,  $n = 1450 \text{ min}^{-1}$



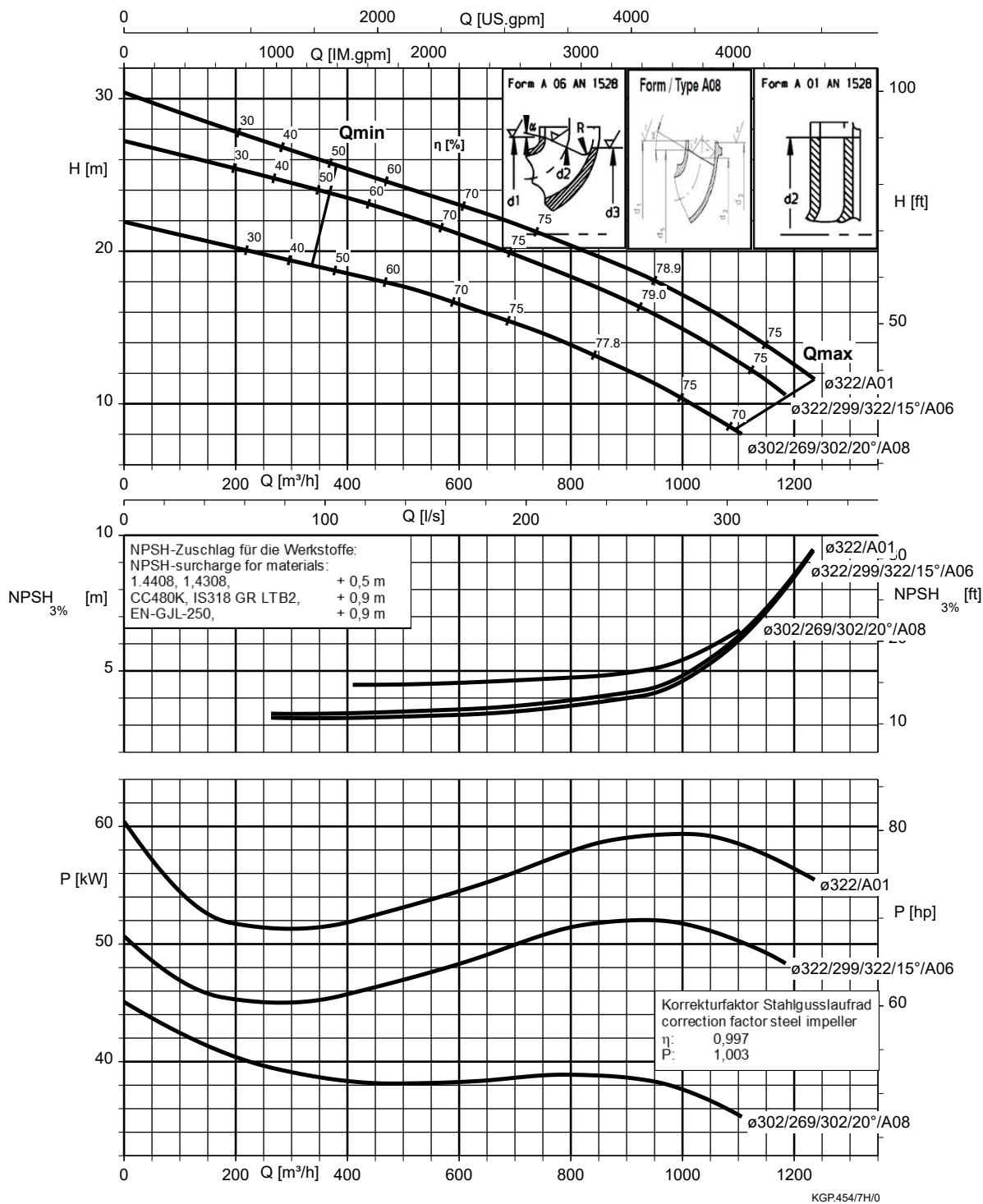
Etanorm 250-200-435,  $n = 1450 \text{ min}^{-1}$



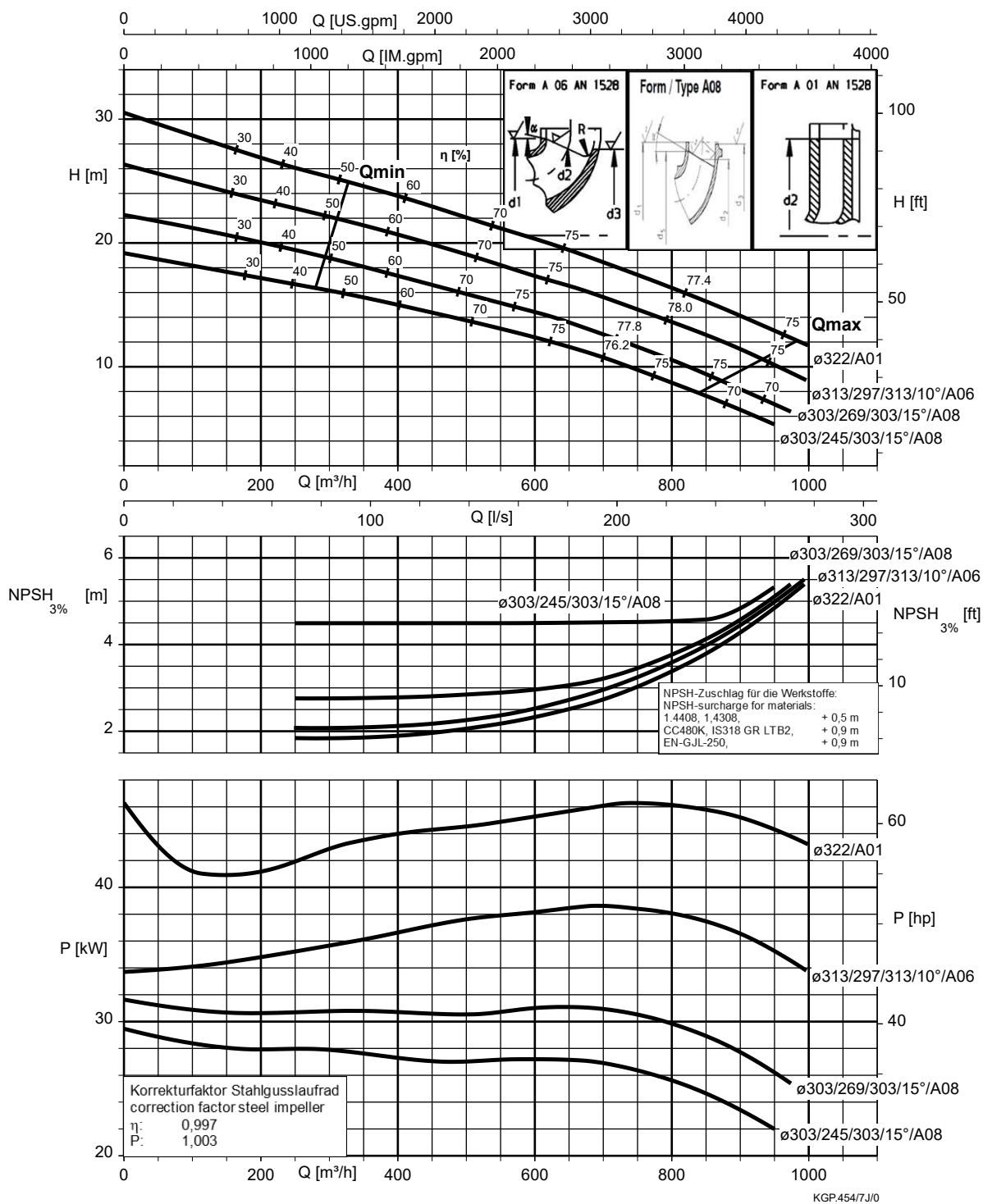
Etanorm 250-200-510 ,  $n = 1450 \text{ min}^{-1}$



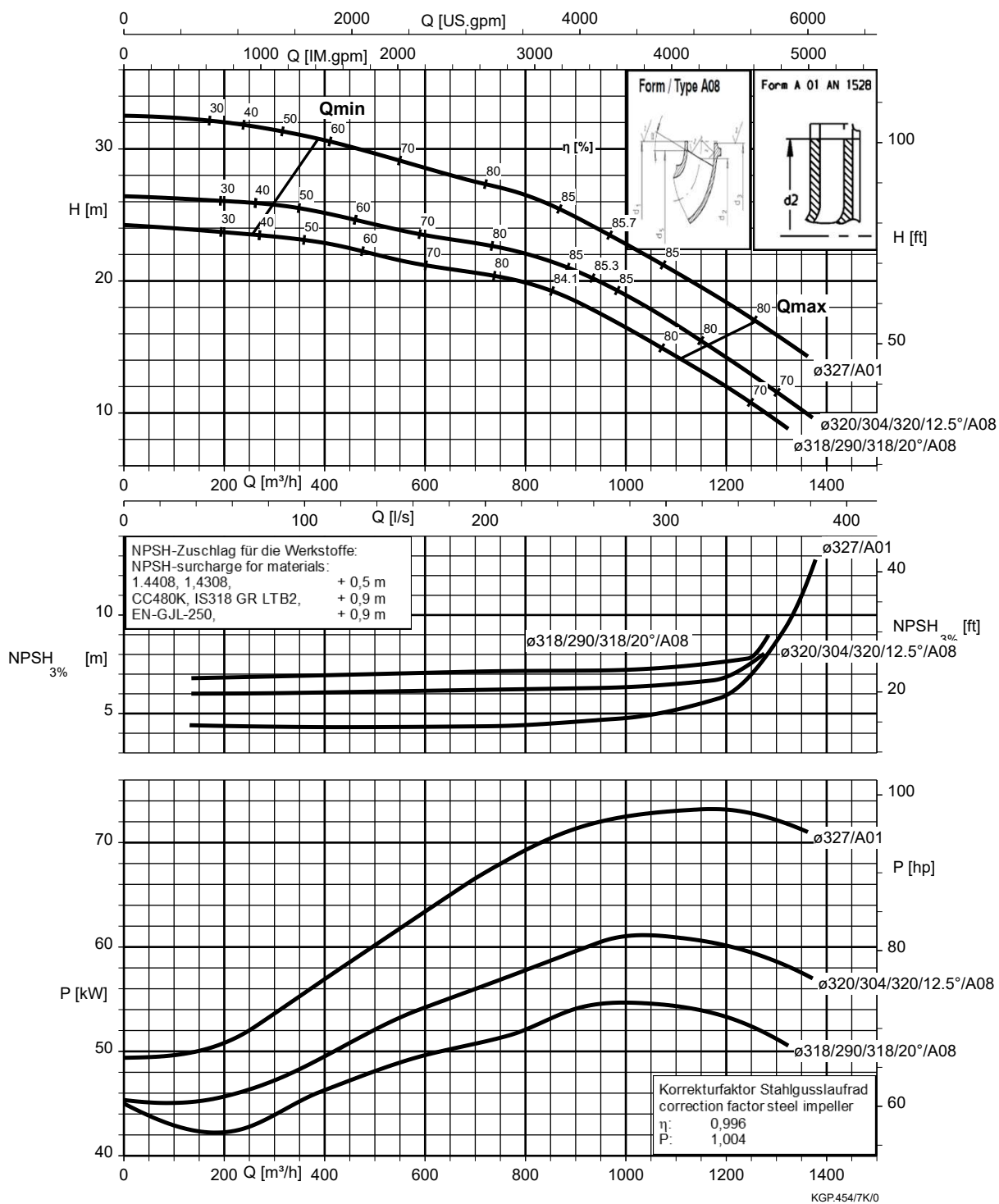
Etanorm 300-250-295,  $n = 1450 \text{ min}^{-1}$



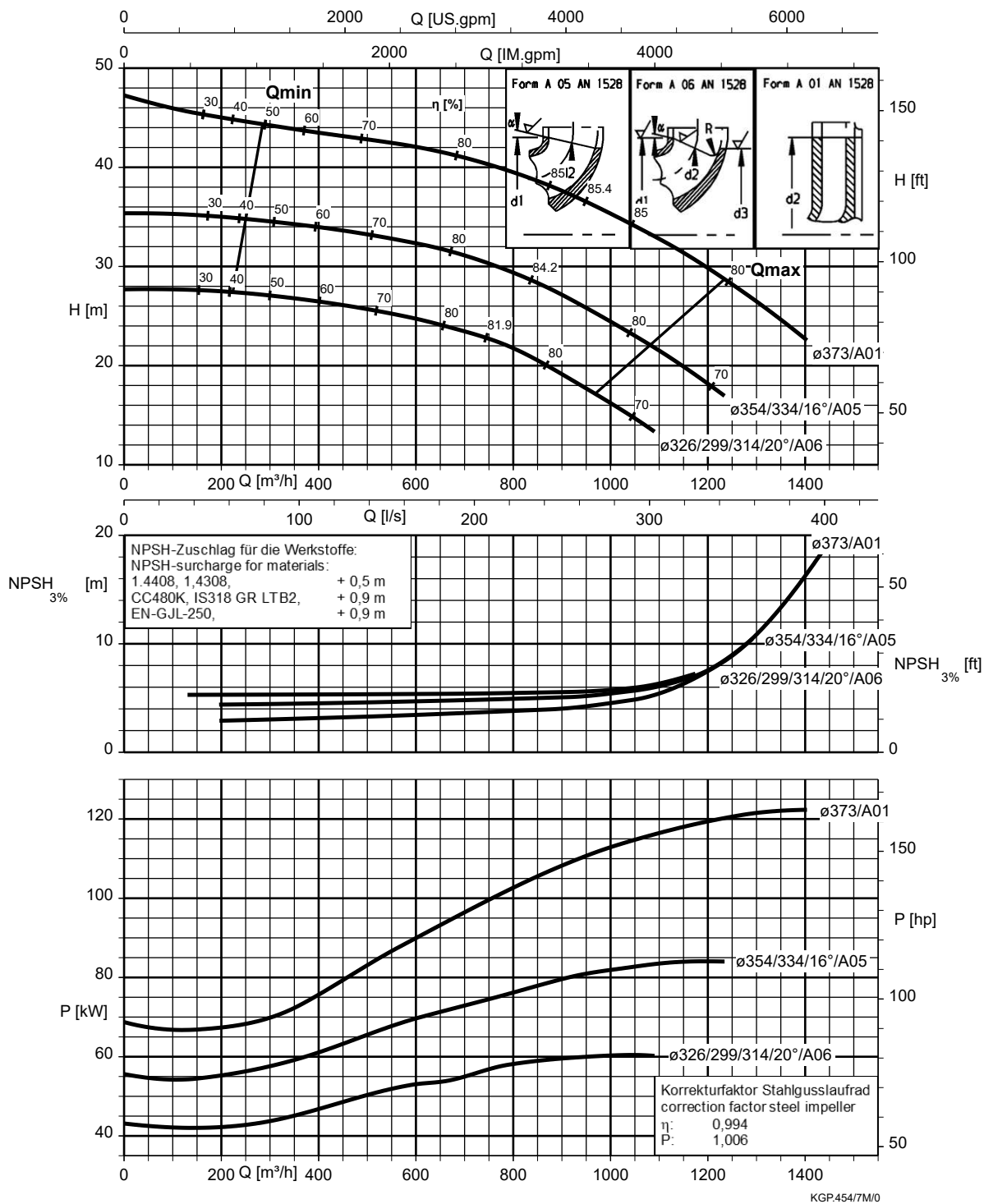
Etanorm 300-250-295.1,  $n = 1450 \text{ min}^{-1}$



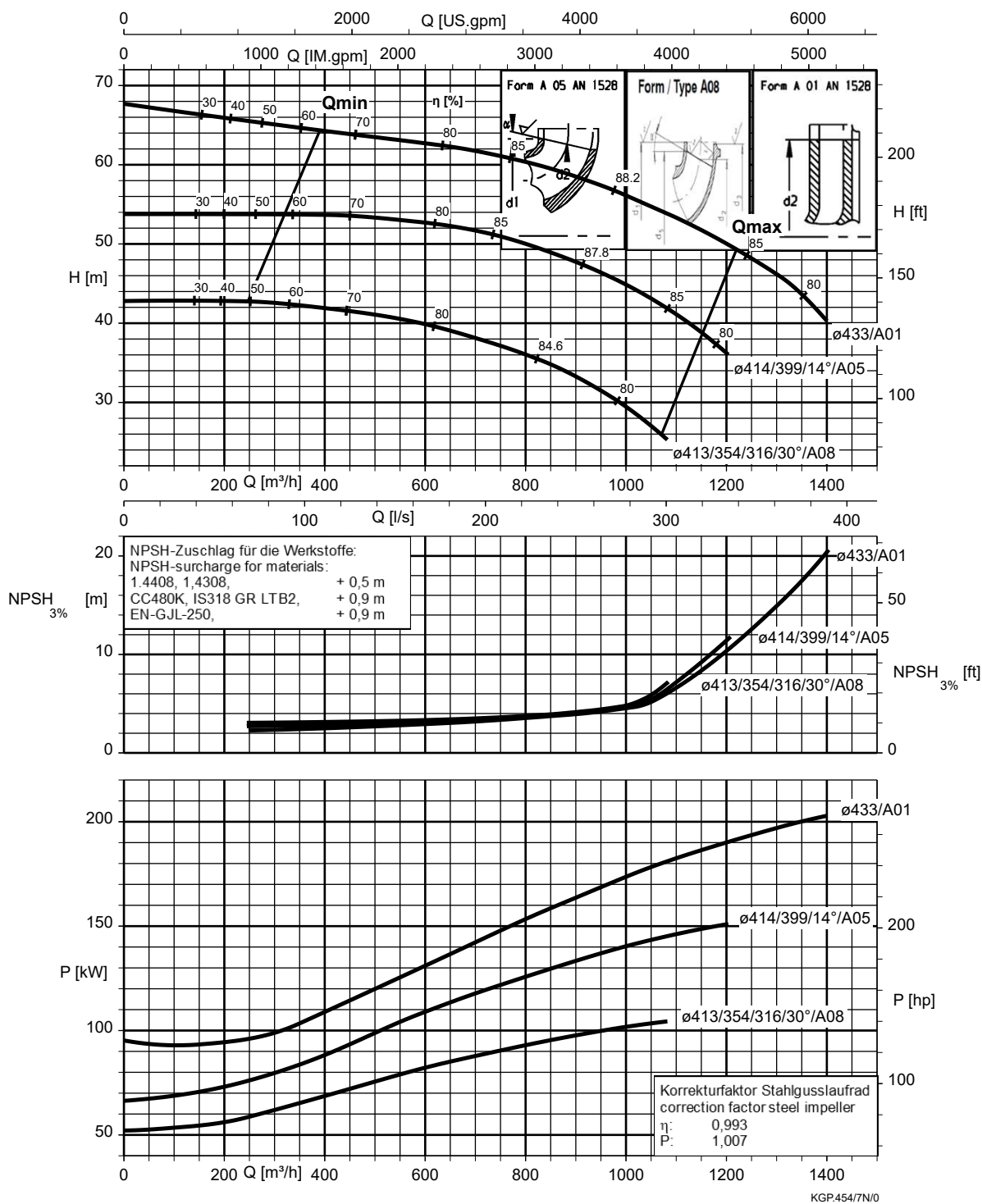
Etanorm 300-250-320,  $n = 1450 \text{ min}^{-1}$



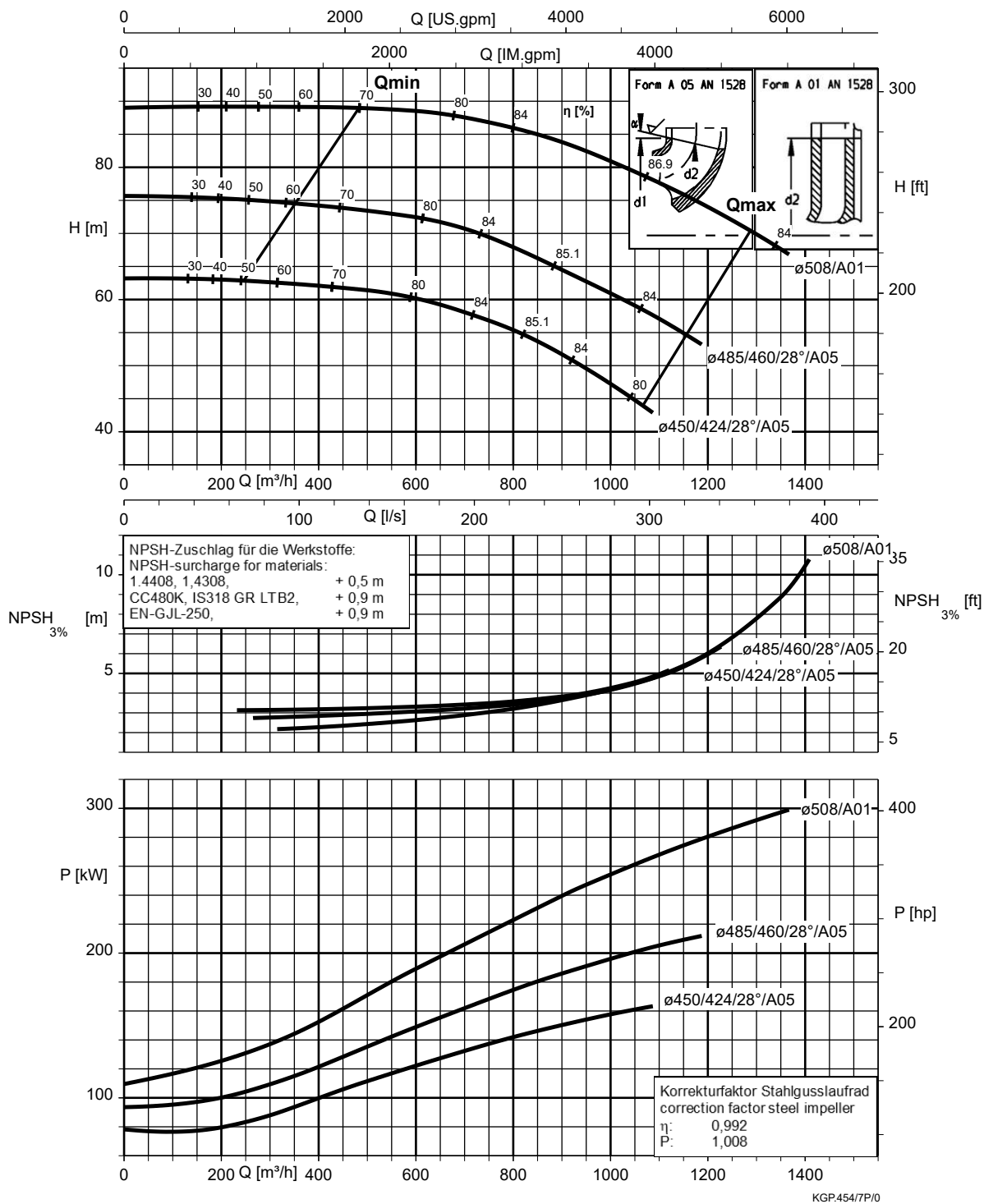
Etanorm 300-250-375,  $n = 1450 \text{ min}^{-1}$



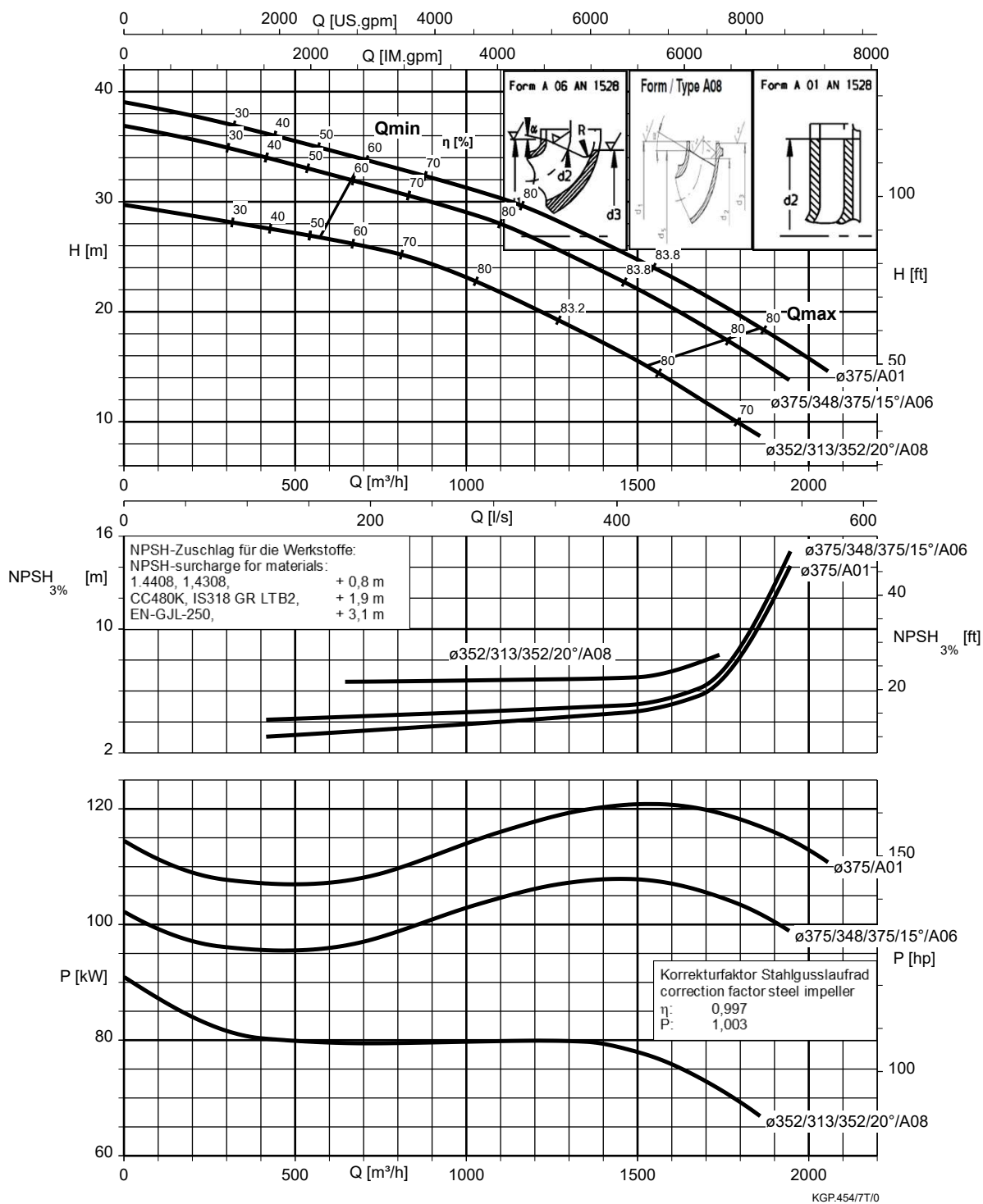
Etanorm 300-250-435,  $n = 1450 \text{ min}^{-1}$



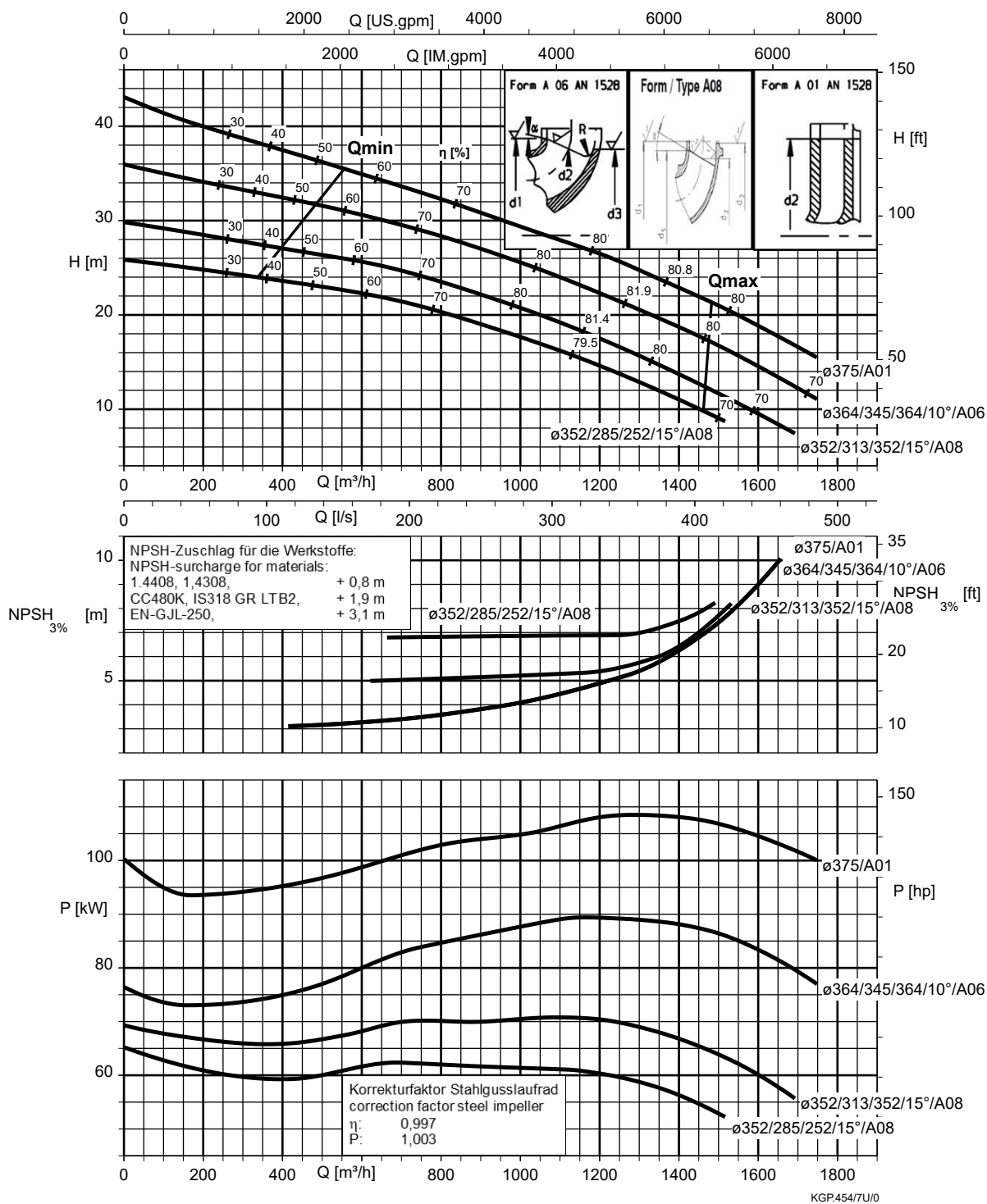
Etanorm 300-250-510,  $n = 1450 \text{ min}^{-1}$



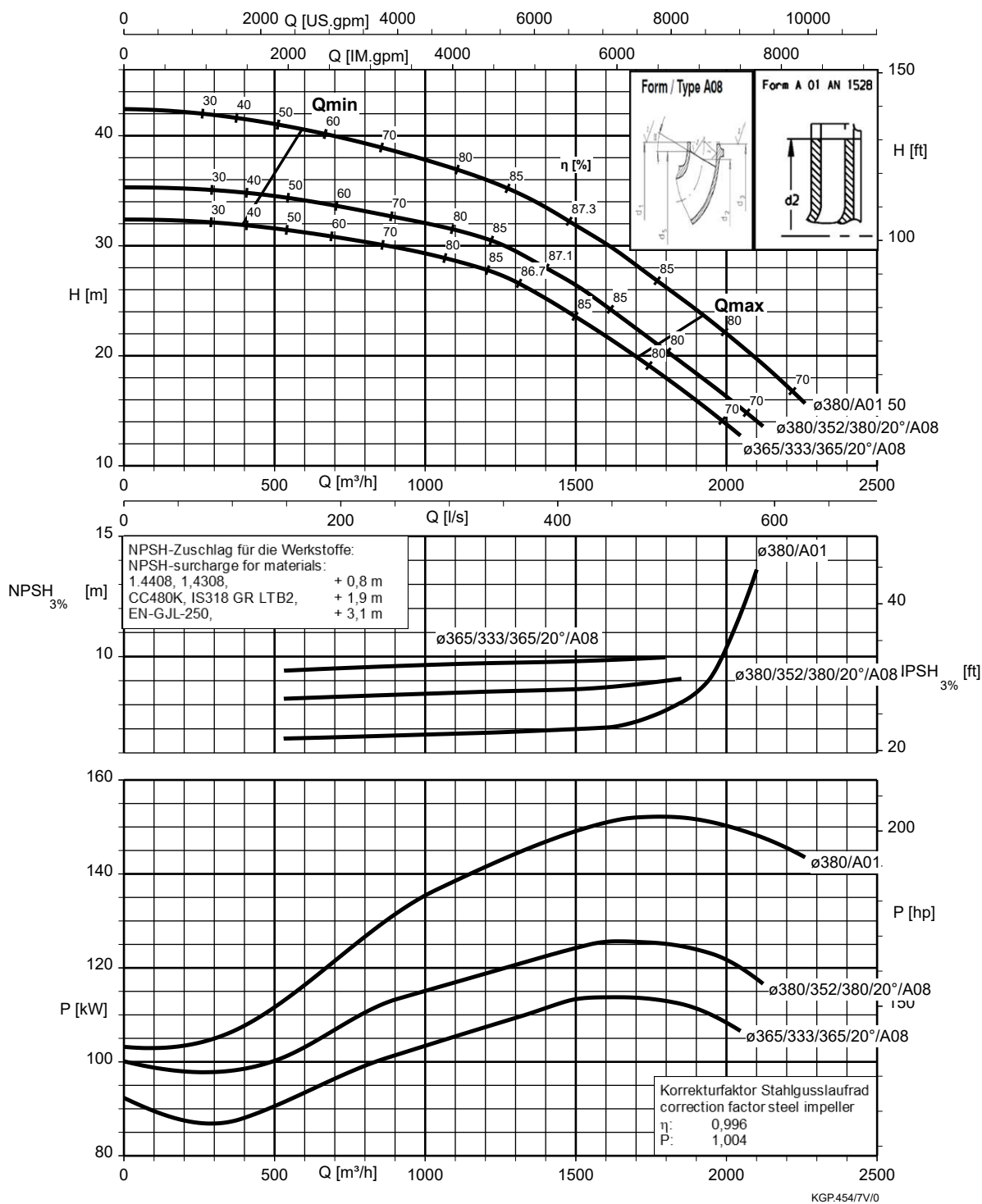
Etanorm 350-300-350,  $n = 1450 \text{ min}^{-1}$



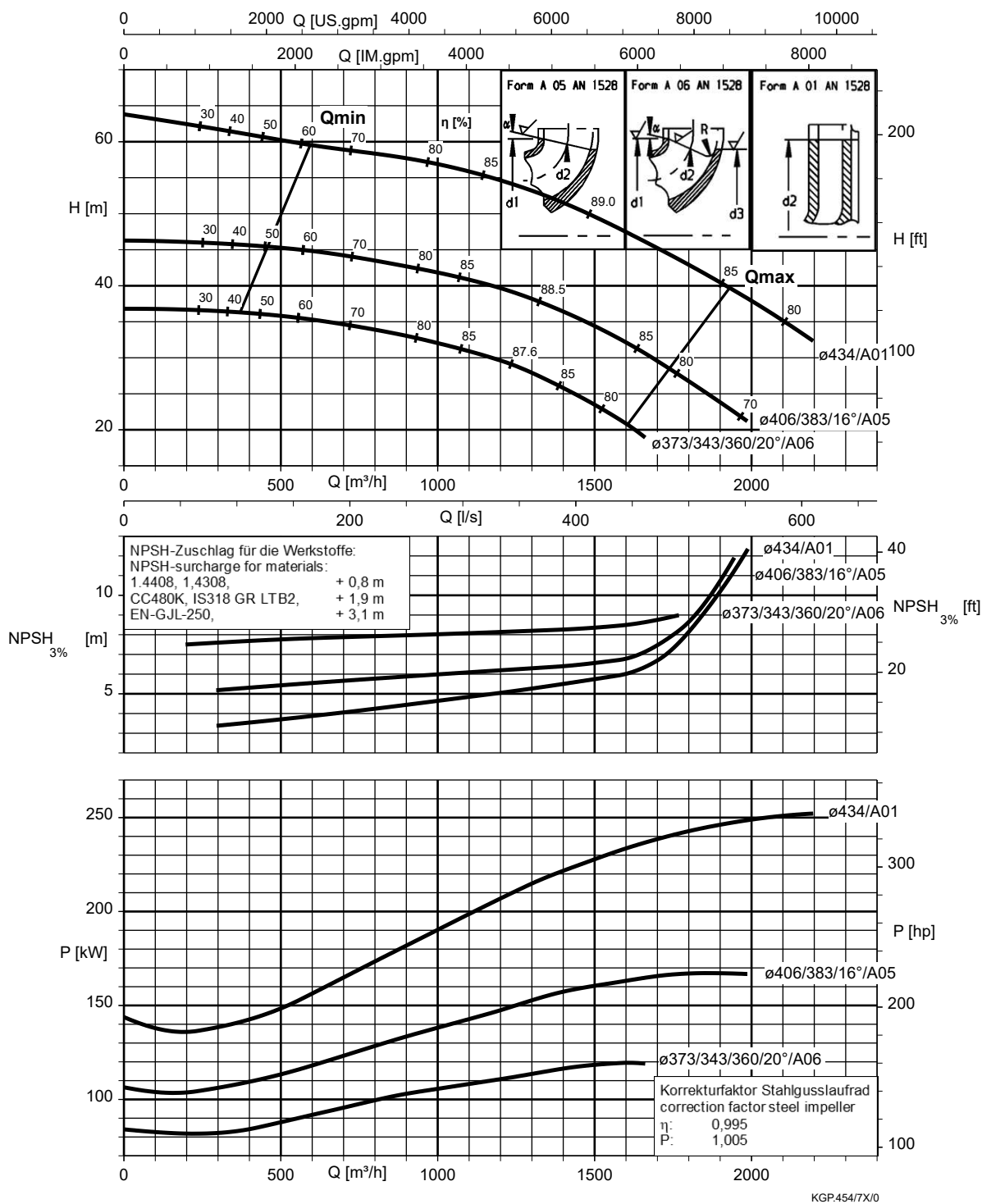
**Etanorm 350-300-350.1 , n = 1450 min<sup>-1</sup>**



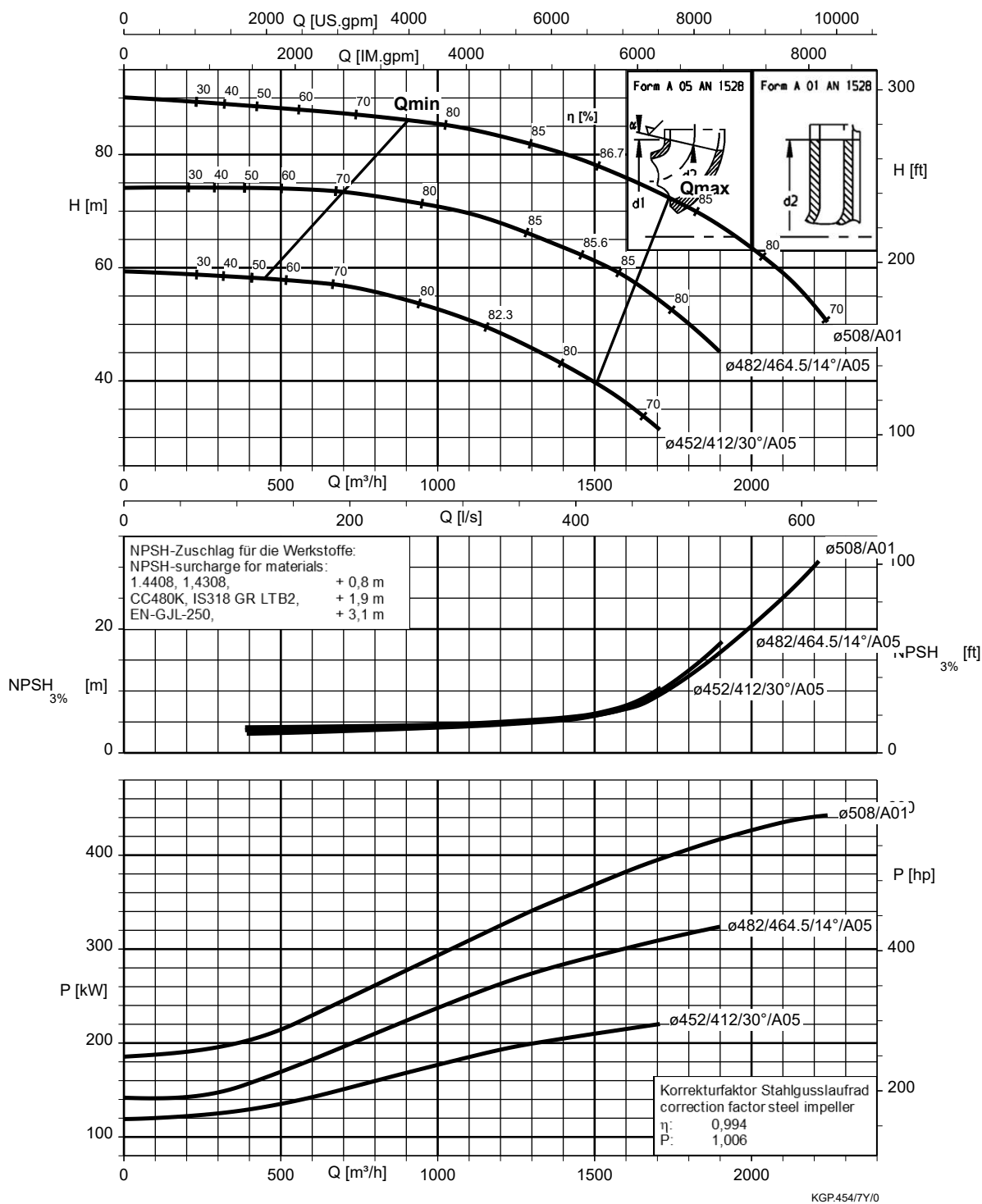
Etanorm 350-300-375,  $n = 1450 \text{ min}^{-1}$



Etanorm 350-300-435,  $n = 1450 \text{ min}^{-1}$



Etanorm 350-300-510 ,  $n = 1450 \text{ min}^{-1}$



Etanorm-RSY 125-500.2,  $n = 1450 \text{ min}^{-1}$

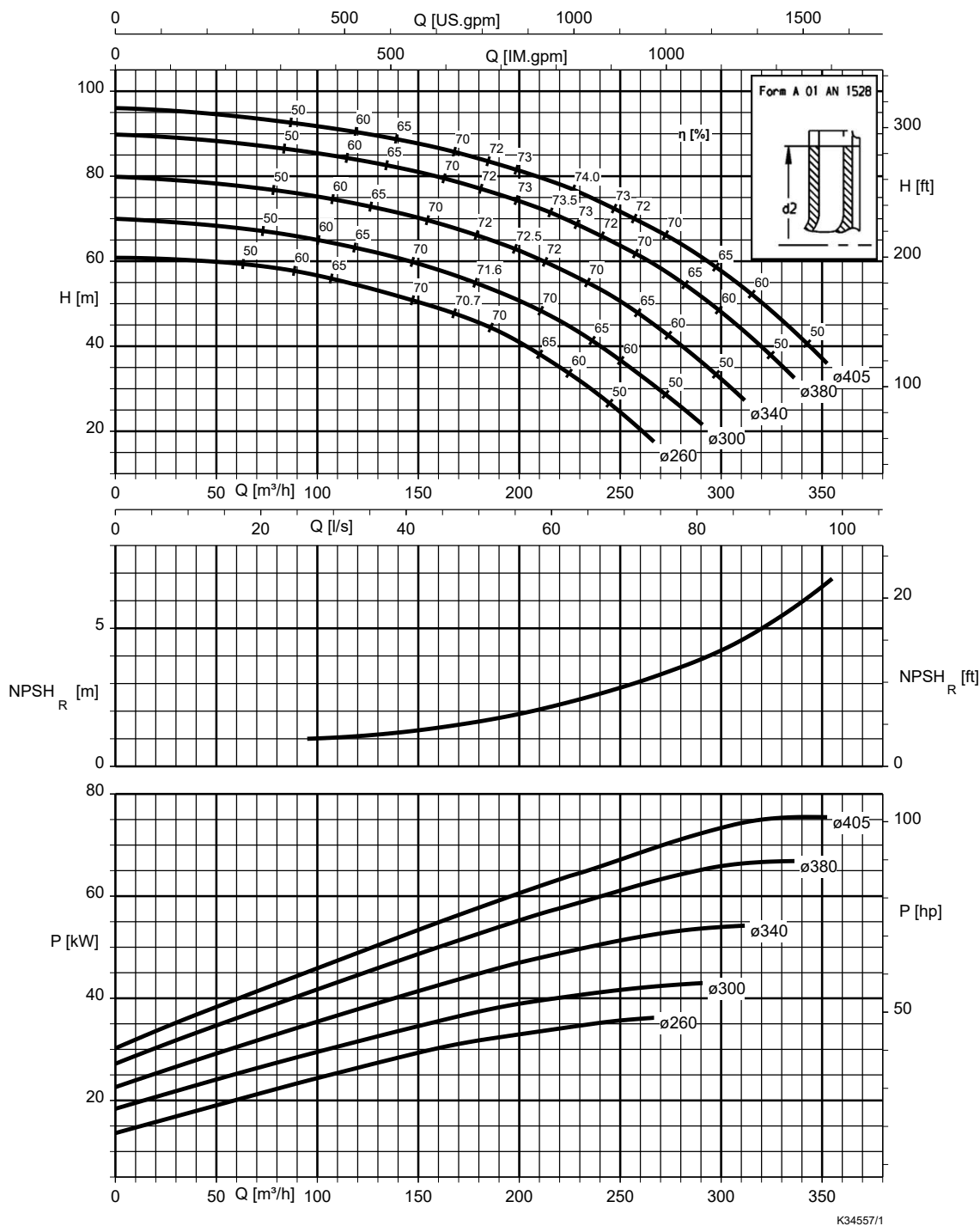


Tabelle 3: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 150-500.1,  $n = 1450 \text{ min}^{-1}$

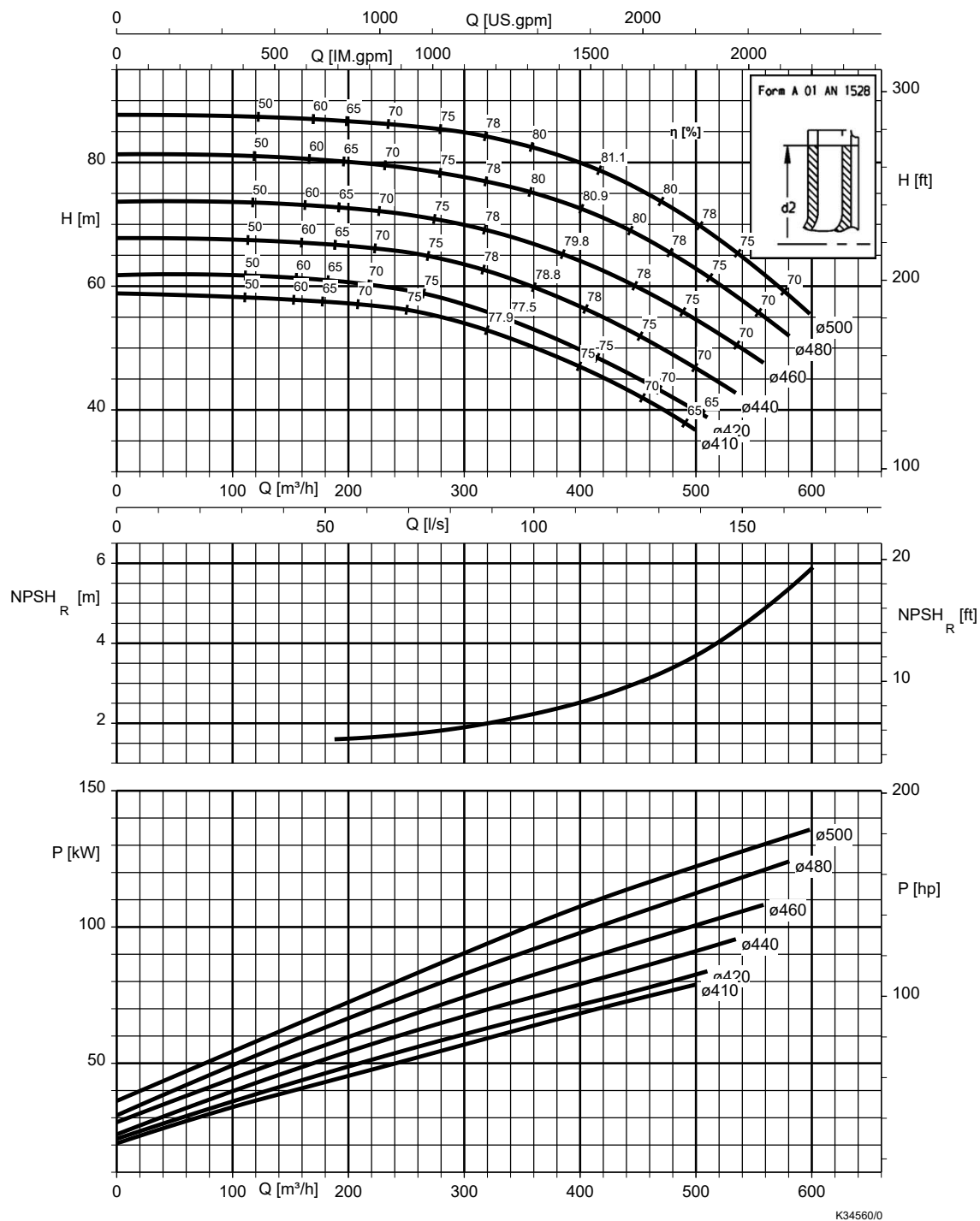


Tabelle 4: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 200-330,  $n = 1450 \text{ min}^{-1}$

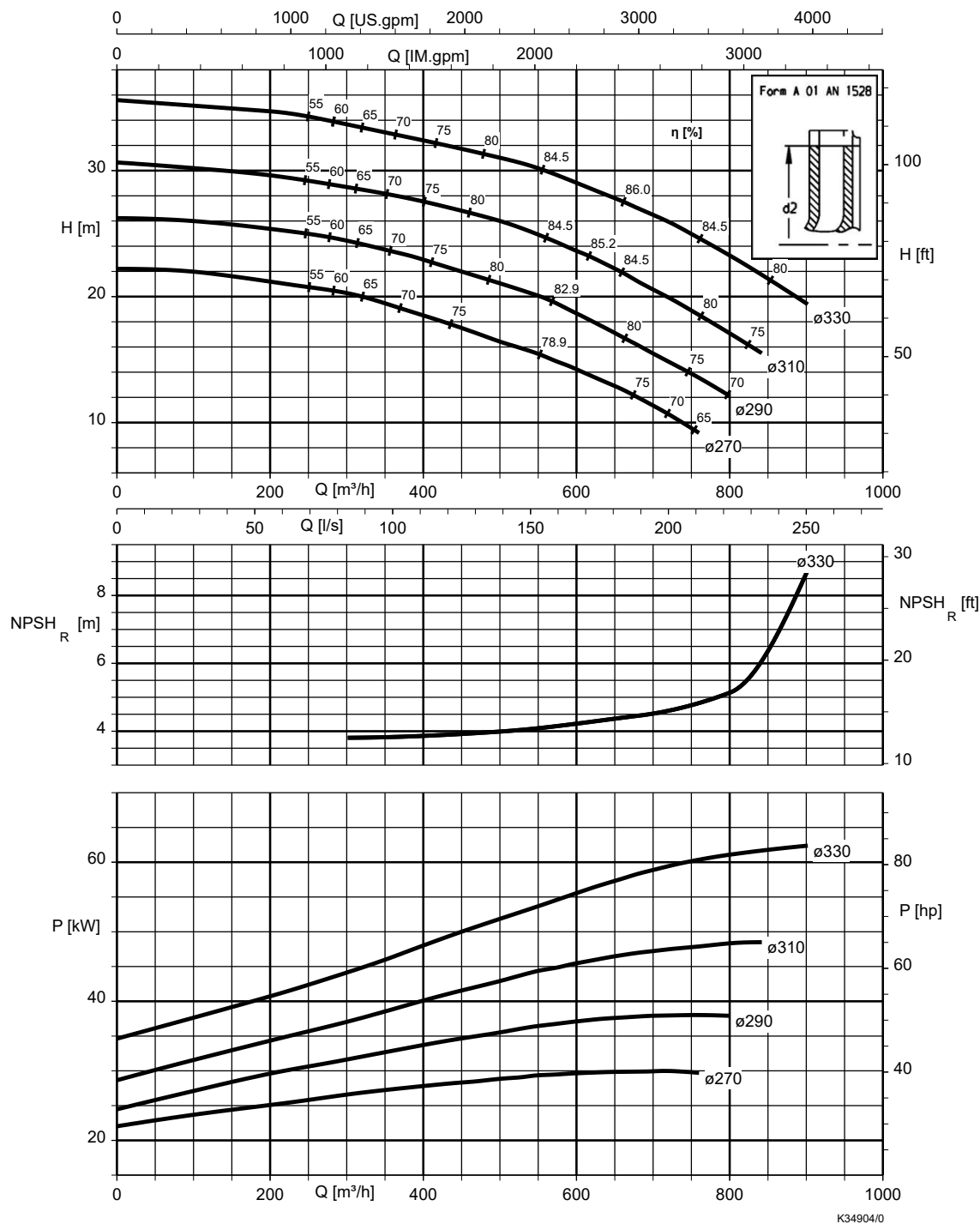


Tabelle 5: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 200-400,  $n = 1450 \text{ min}^{-1}$

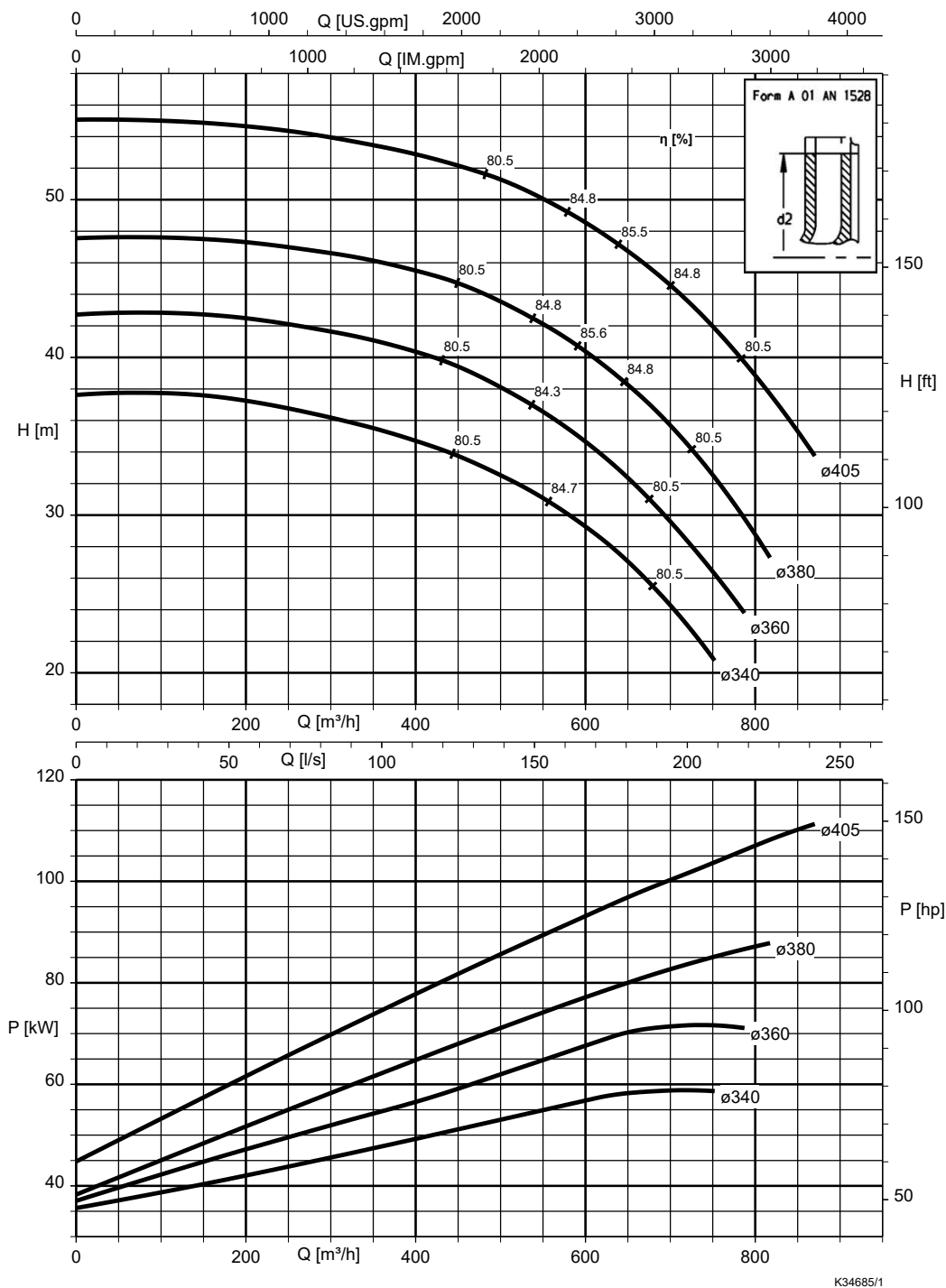


Tabelle 6: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 1,6                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 1,0                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 200-500,  $n = 1450 \text{ min}^{-1}$

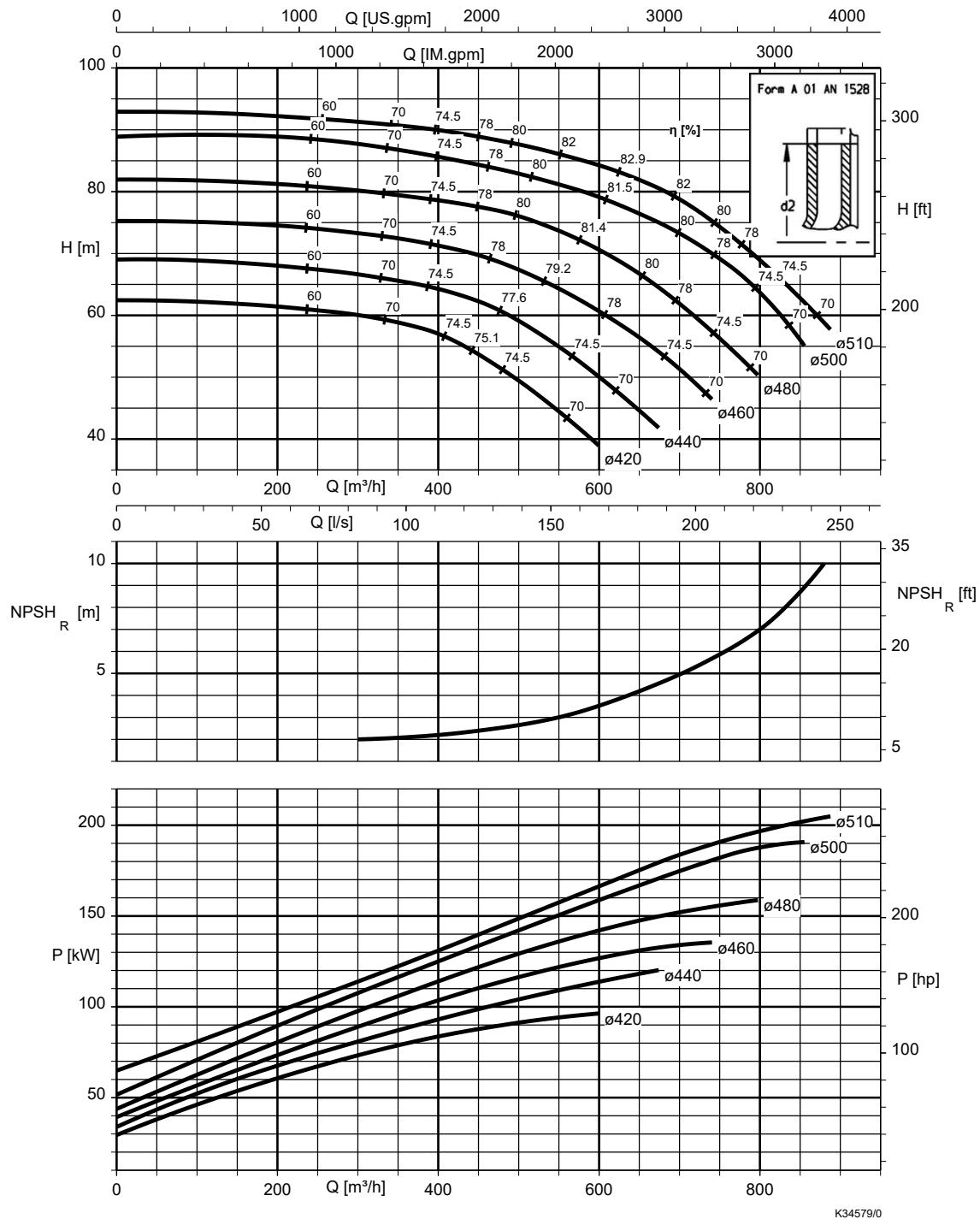


Tabelle 7: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 1,8                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 1,0                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 250-300,  $n = 1450 \text{ min}^{-1}$

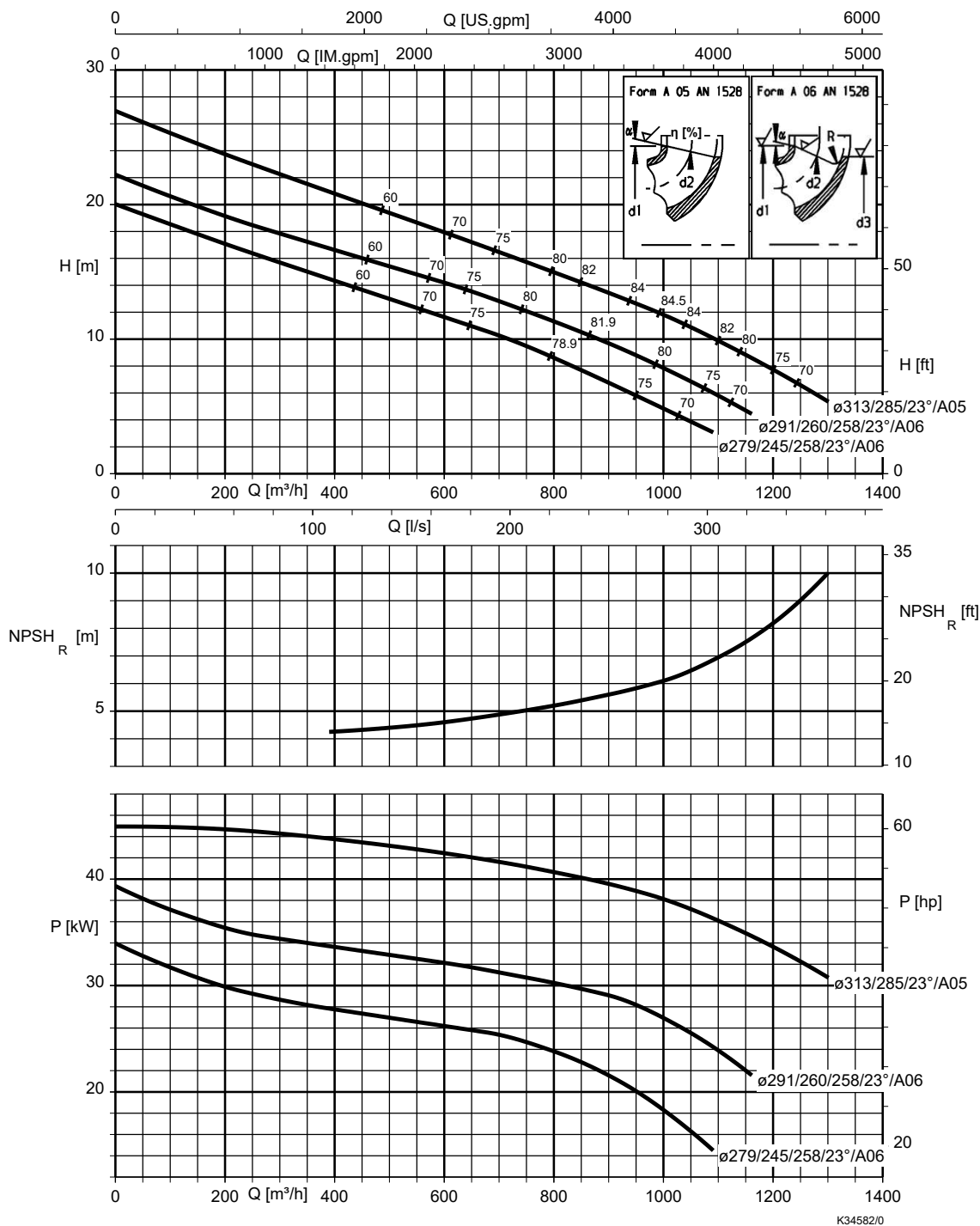


Tabelle 8: Korrekturwerte

| Laufwerkstoff | Korrekturwert $S$ [m] | Berechnung                                          |
|---------------|-----------------------|-----------------------------------------------------|
| EN-GJL-250    | 2,7                   | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert } S$ |
| CC480K-GS     | 1,5                   |                                                     |
| 1.4408        | 0,5                   |                                                     |

Etanorm-RSY 250-330,  $n = 1450 \text{ min}^{-1}$

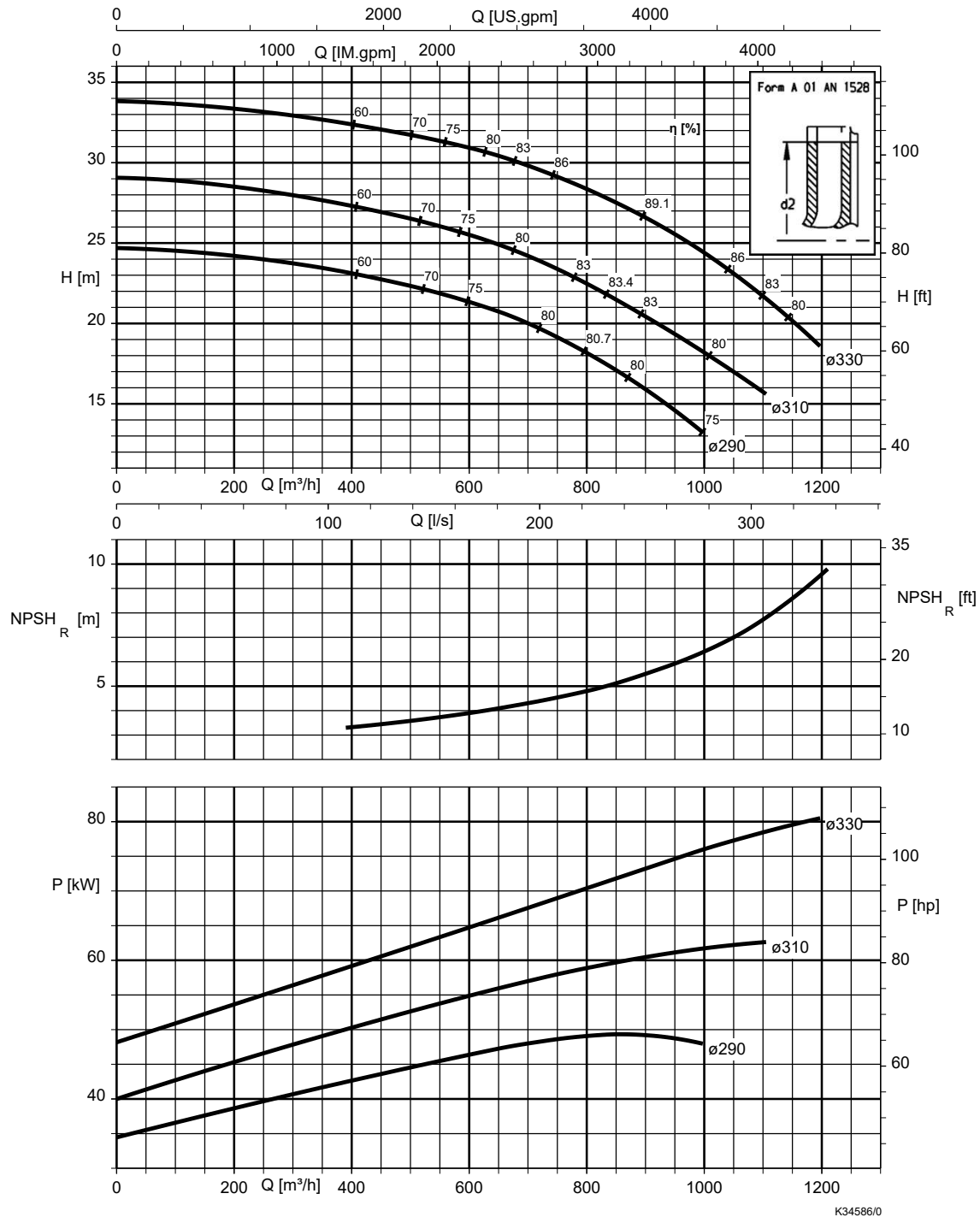


Tabelle 9: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 2,0                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 1,0                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 250-400,  $n = 1450 \text{ min}^{-1}$

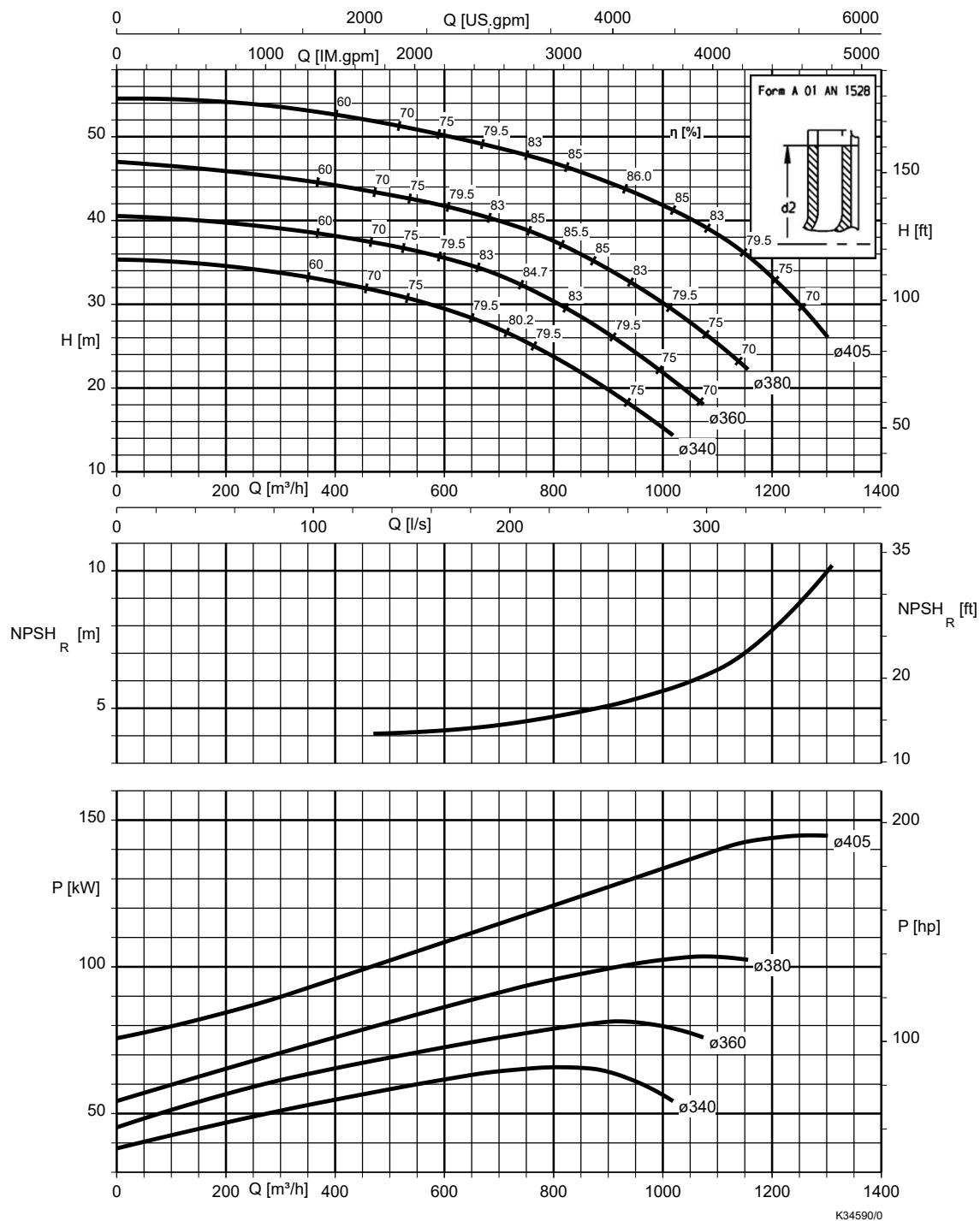


Tabelle 10: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 2,8                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 1,8                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 250-500,  $n = 1450 \text{ min}^{-1}$

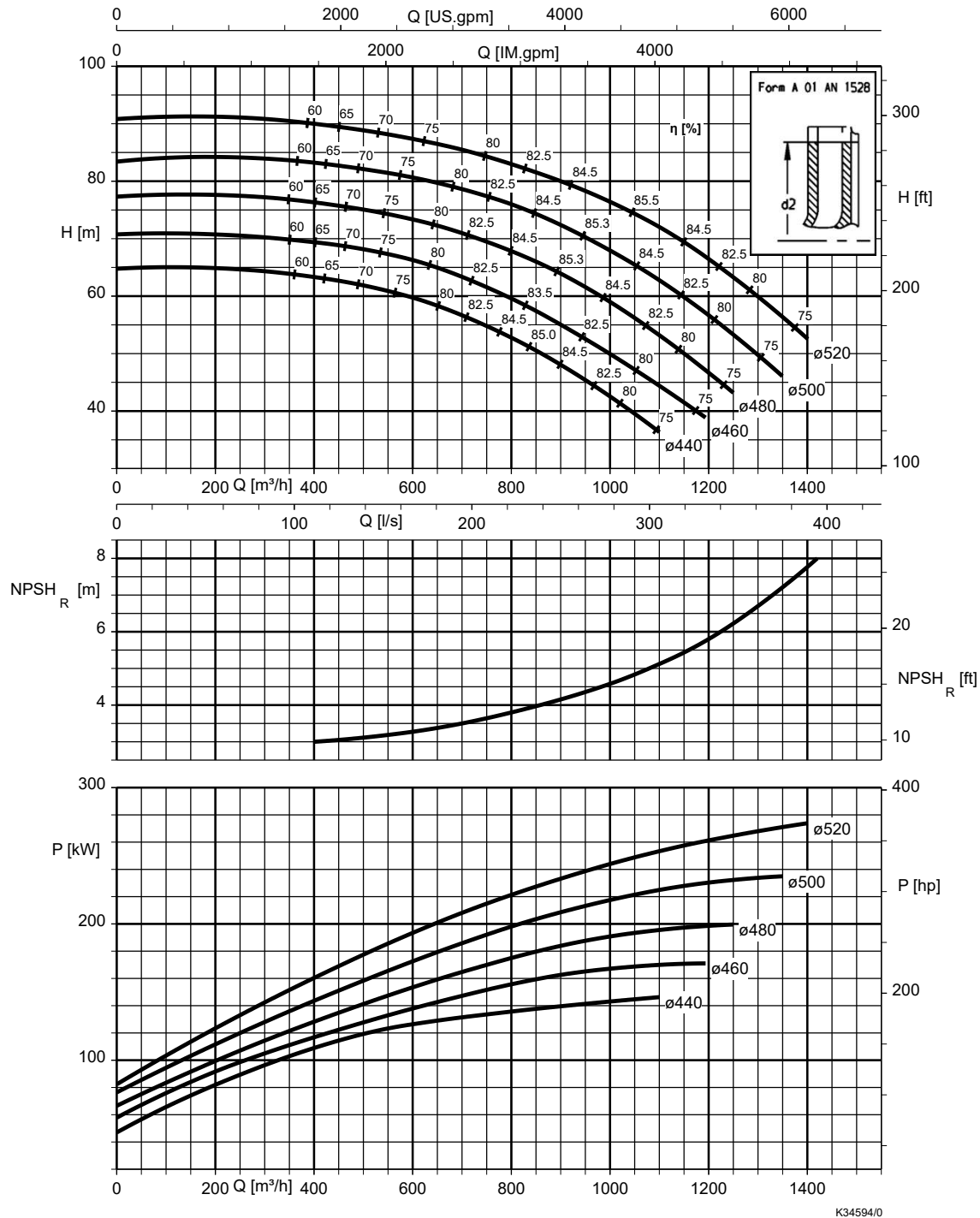


Tabelle 11: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 1,8                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 1,0                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 300-360,  $n = 1450 \text{ min}^{-1}$

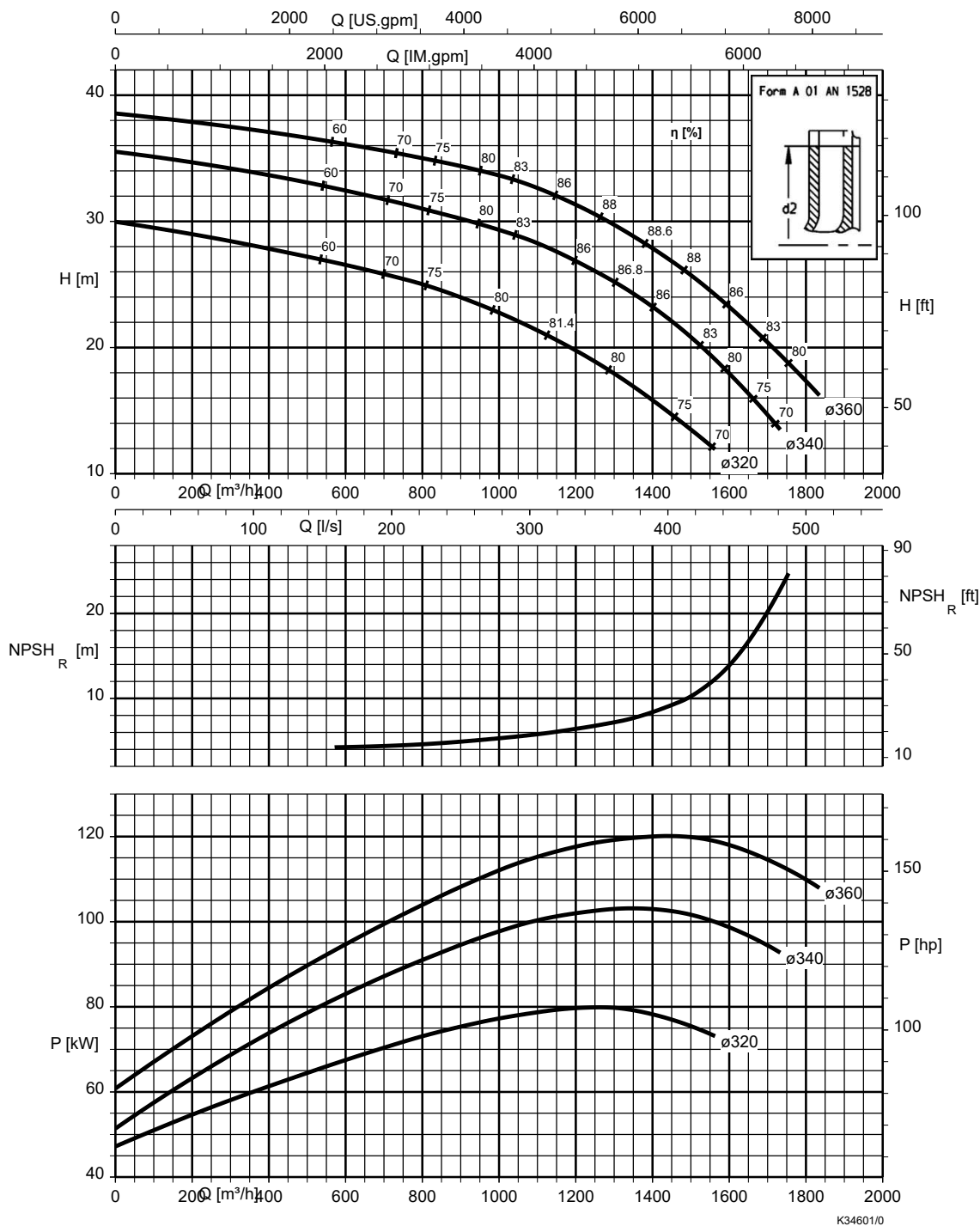


Tabelle 12: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 1,6                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 1,0                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 300-400,  $n = 1450 \text{ min}^{-1}$

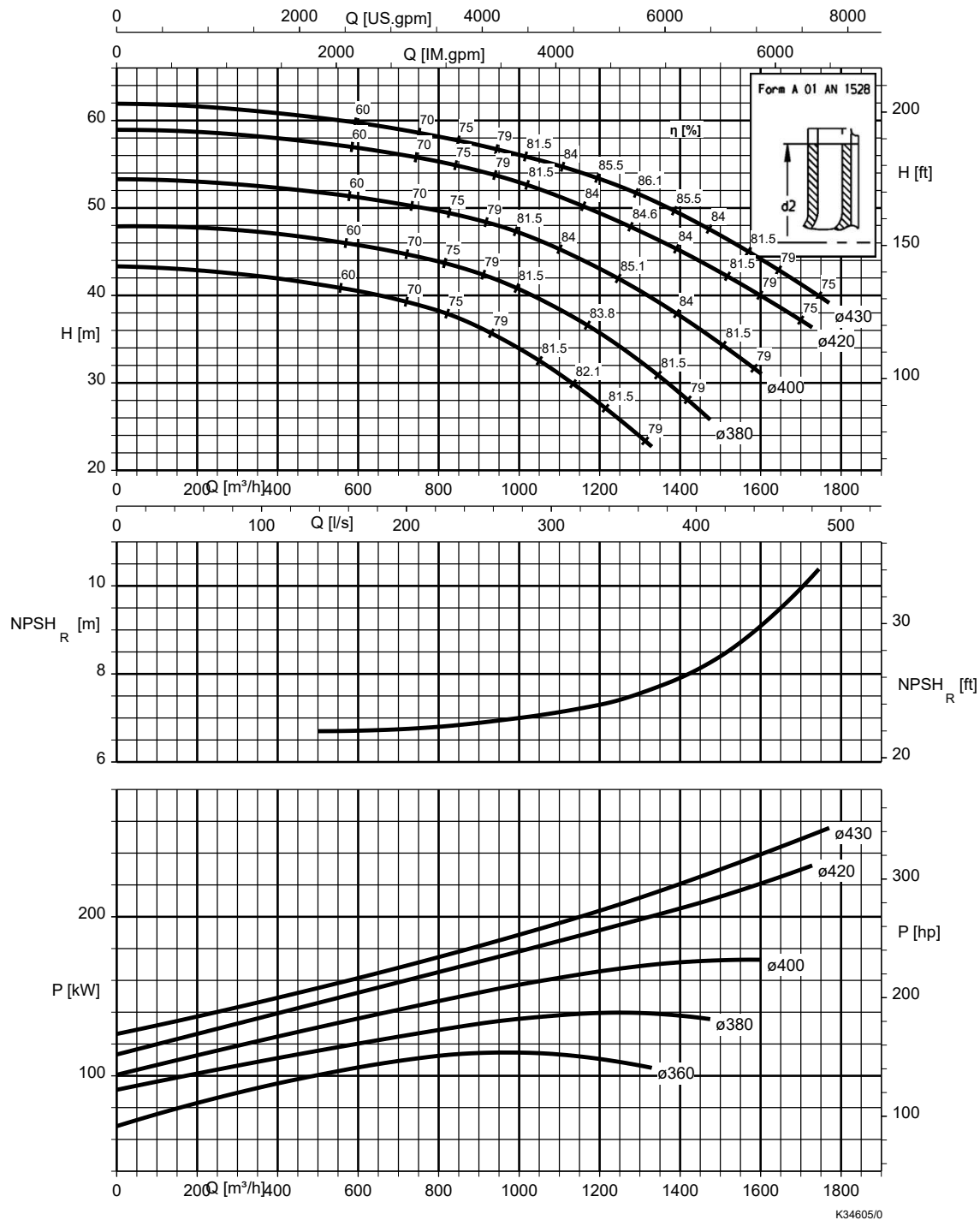


Tabelle 13: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 1,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 1,0                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-RSY 300-500,  $n = 1450 \text{ min}^{-1}$

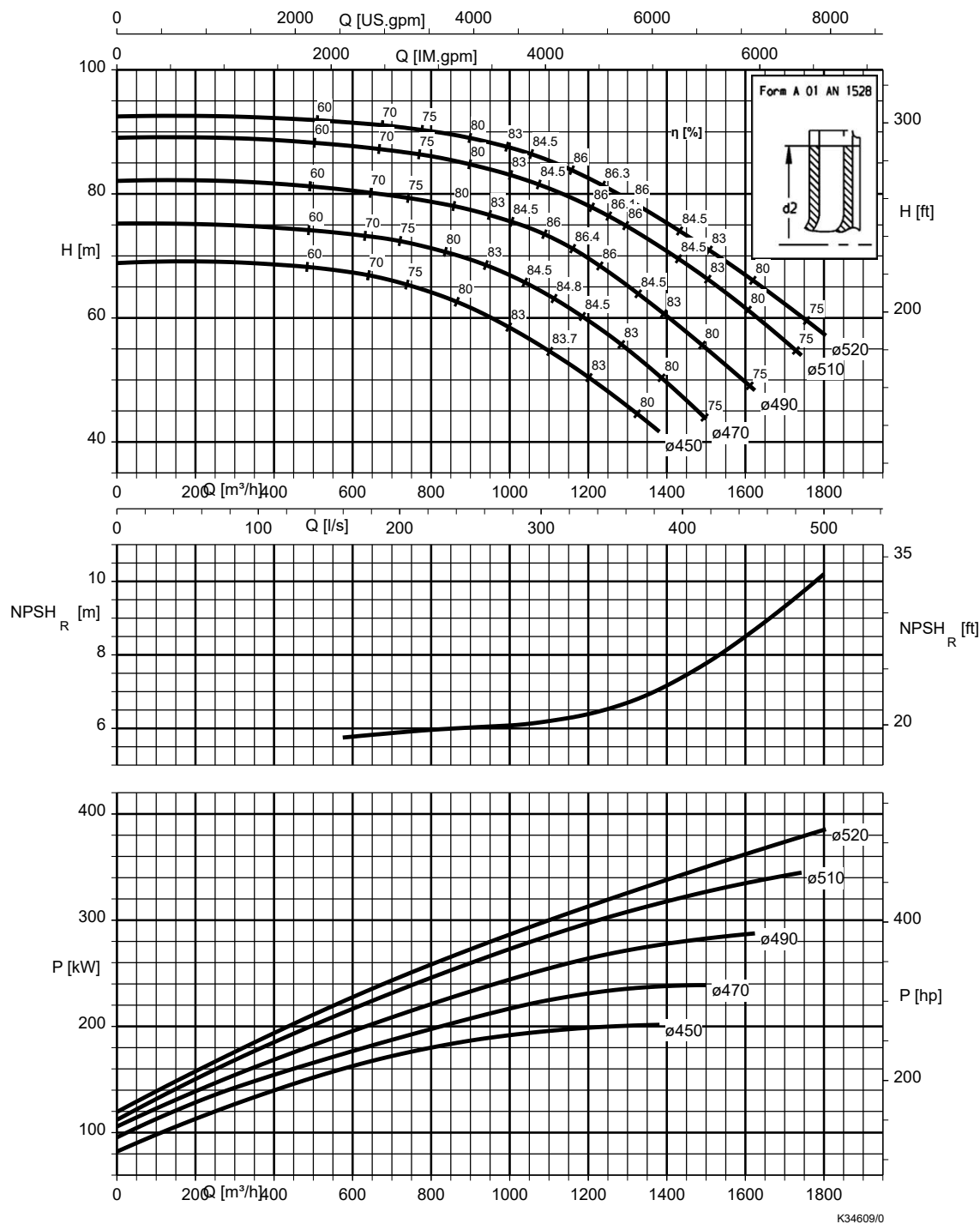


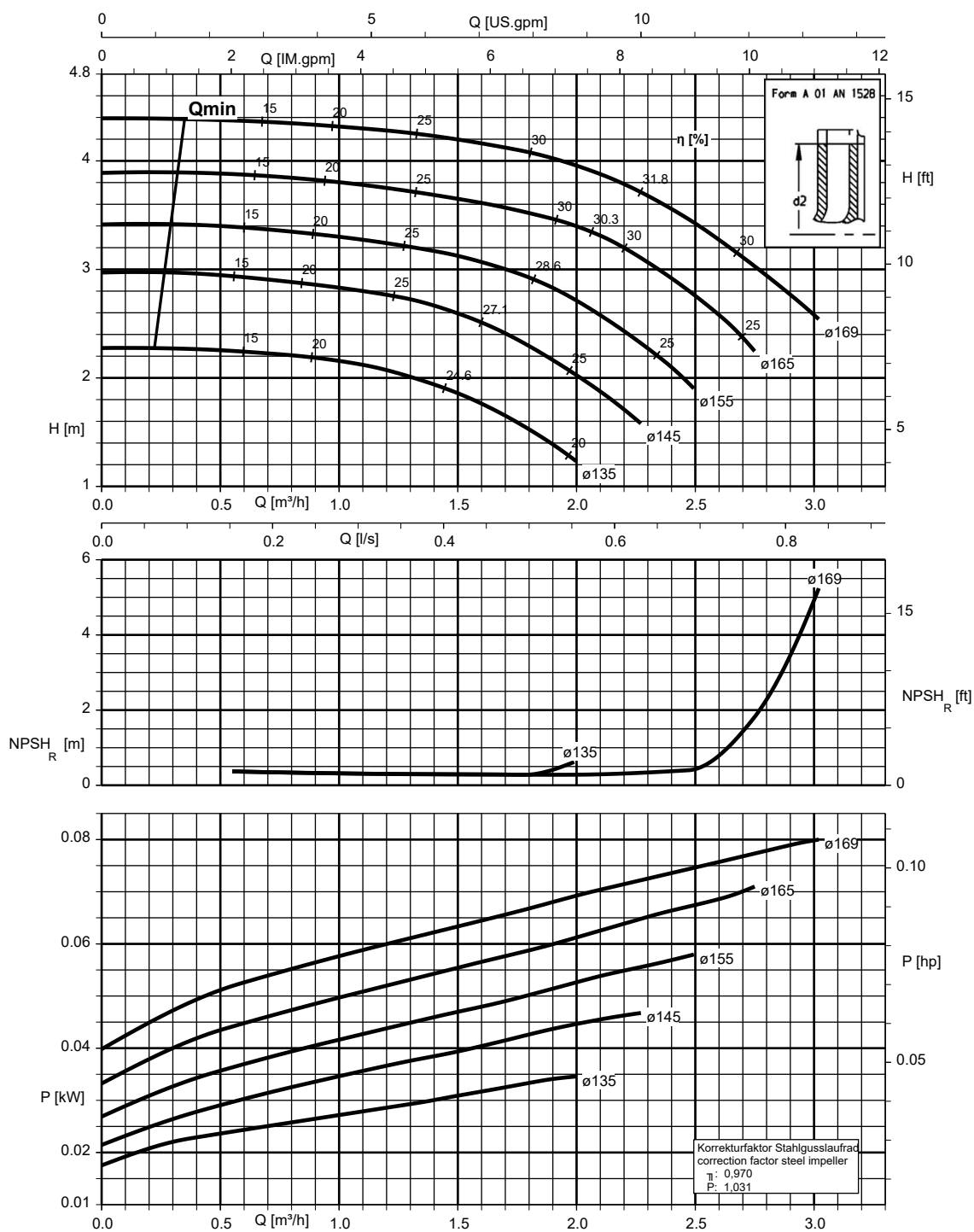
Tabelle 14: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 3,2                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 1,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

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

Etanorm 040-025-160,  $n = 960 \text{ min}^{-1}$

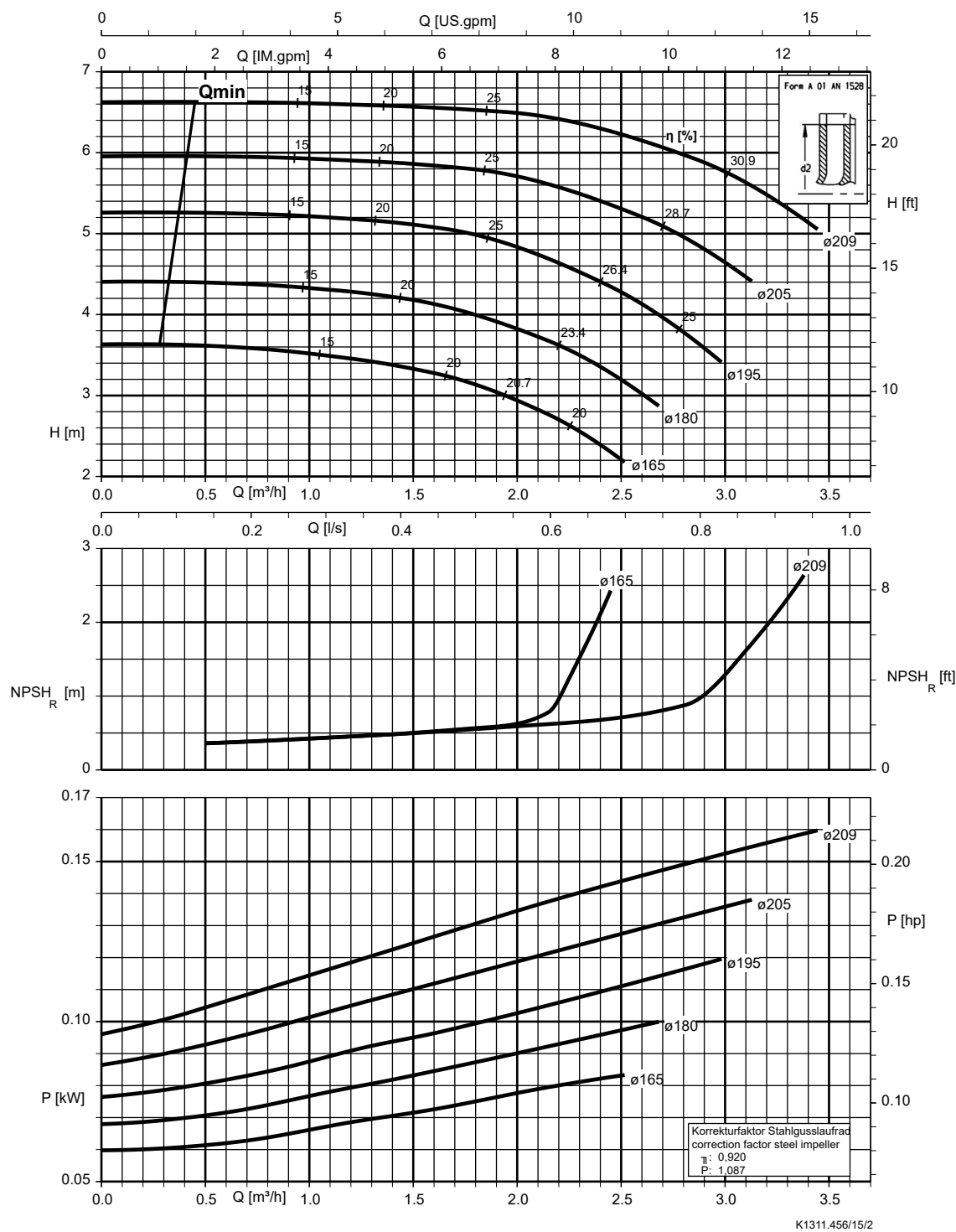
Etanorm SYT, Etabloc



1311.45/11-DE

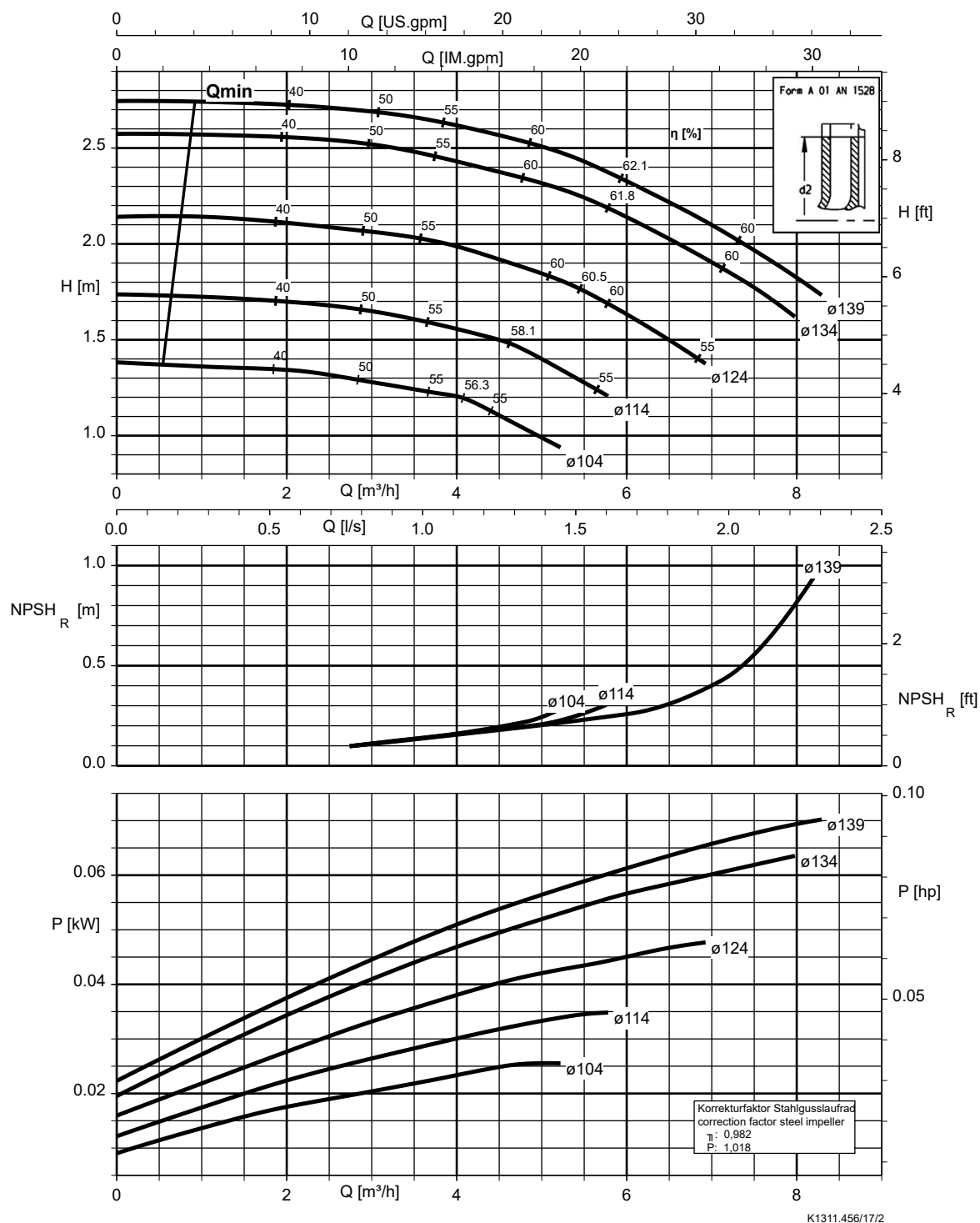
Etanorm 040-025-200,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



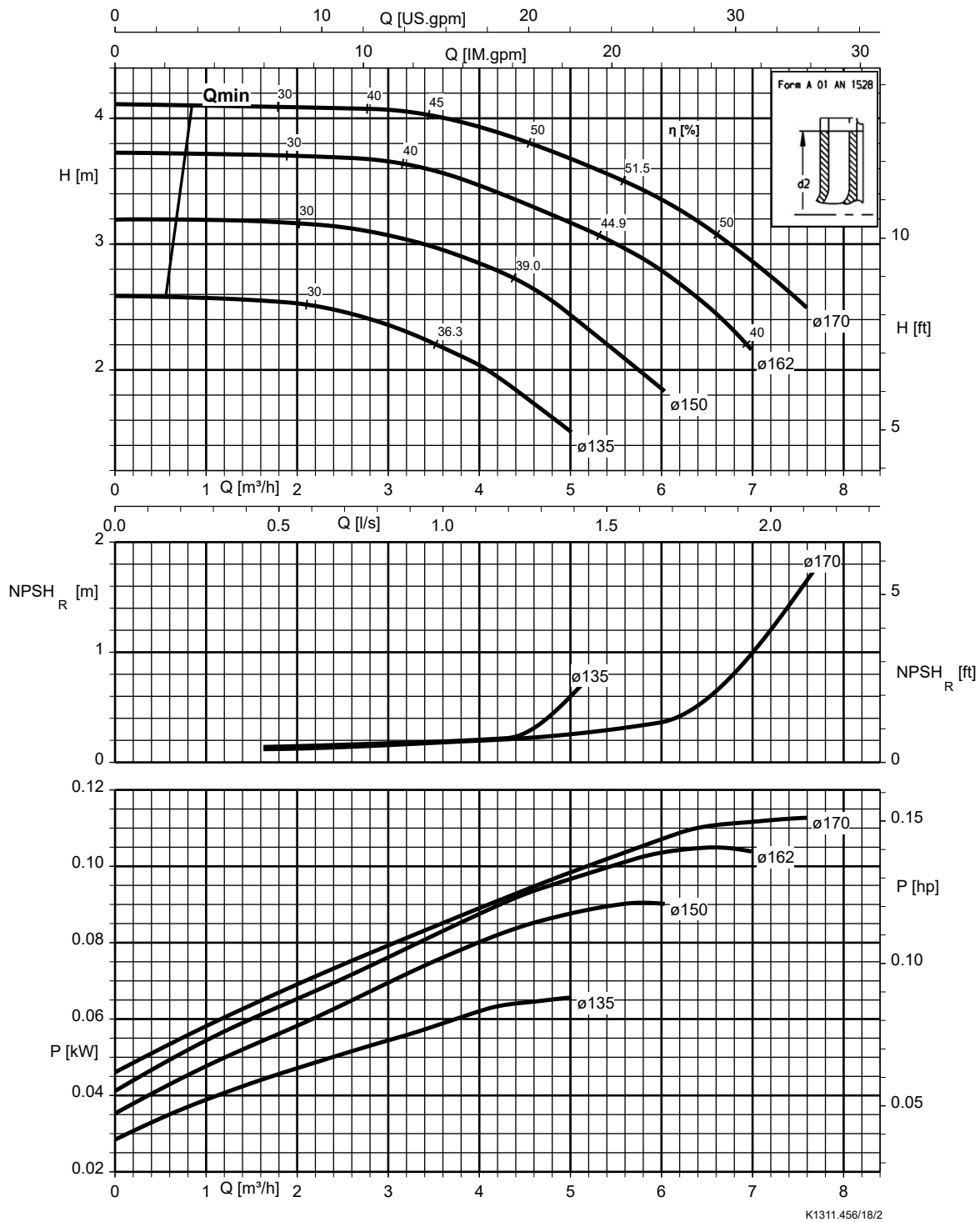
Etanorm 050-032-125.1,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



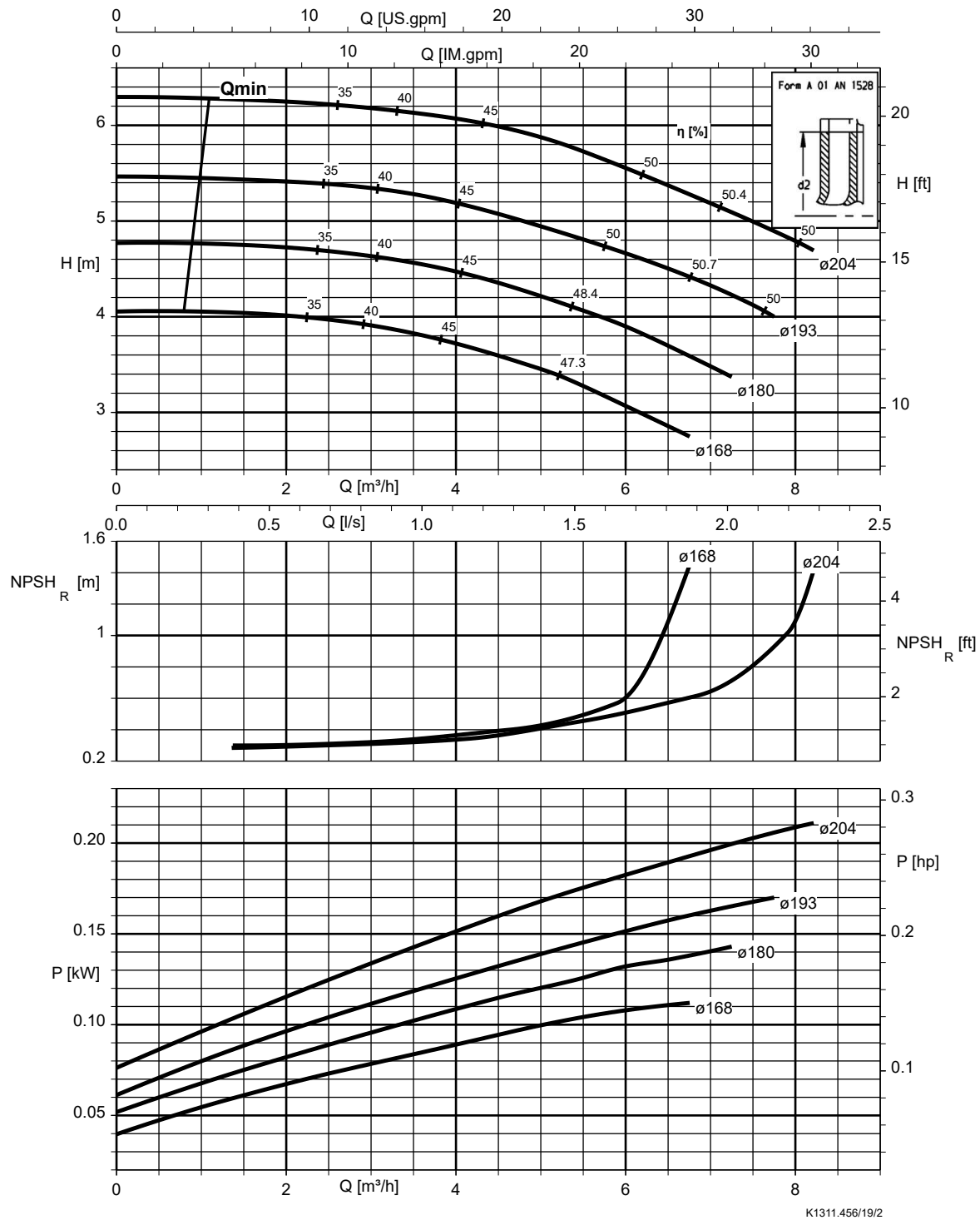
Etanorm 050-032-160.1,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



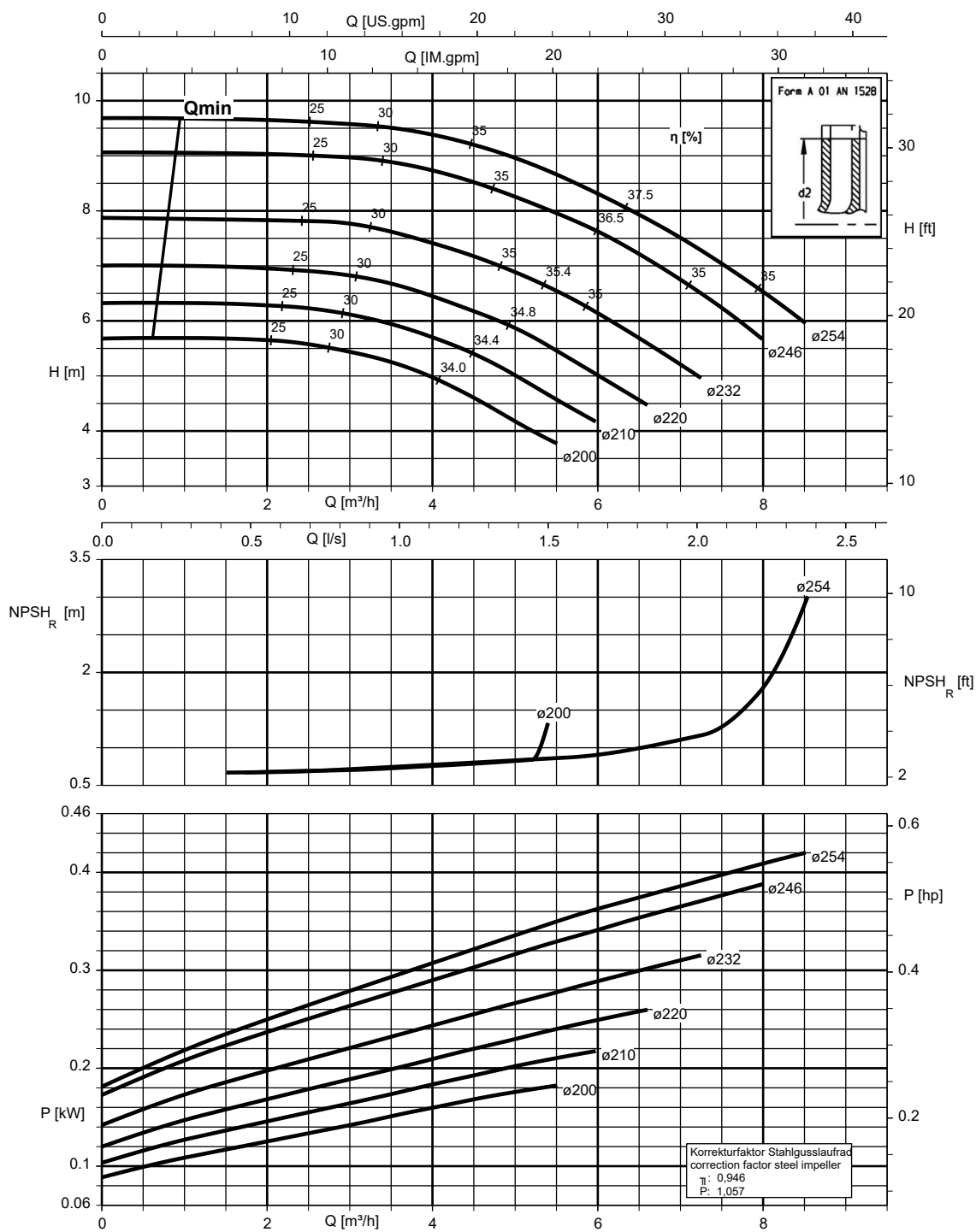
Etanorm 050-032-200.1,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



Etanorm 050-032-250.1,  $n = 960 \text{ min}^{-1}$

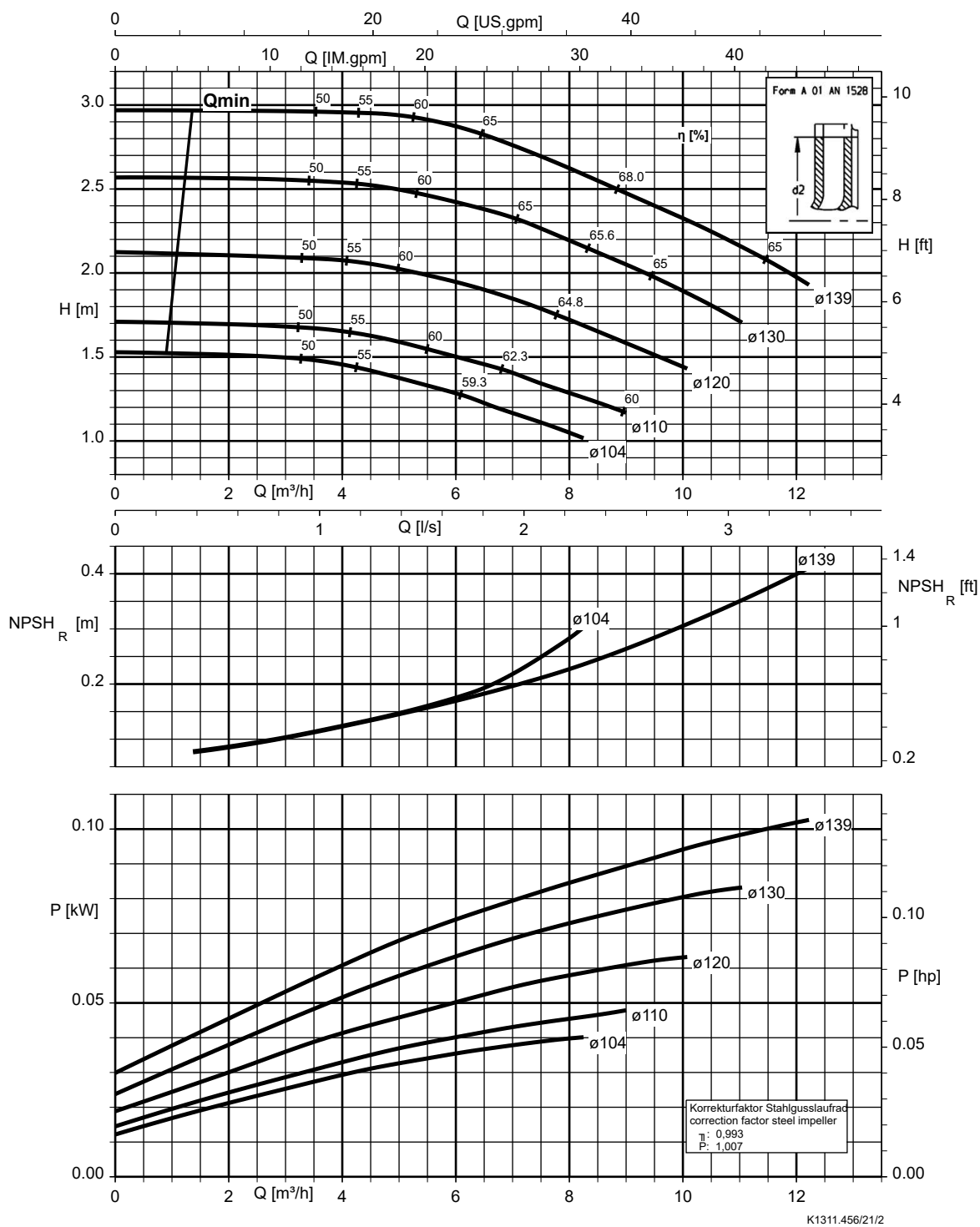
Etabloc



K1311.456/20/2

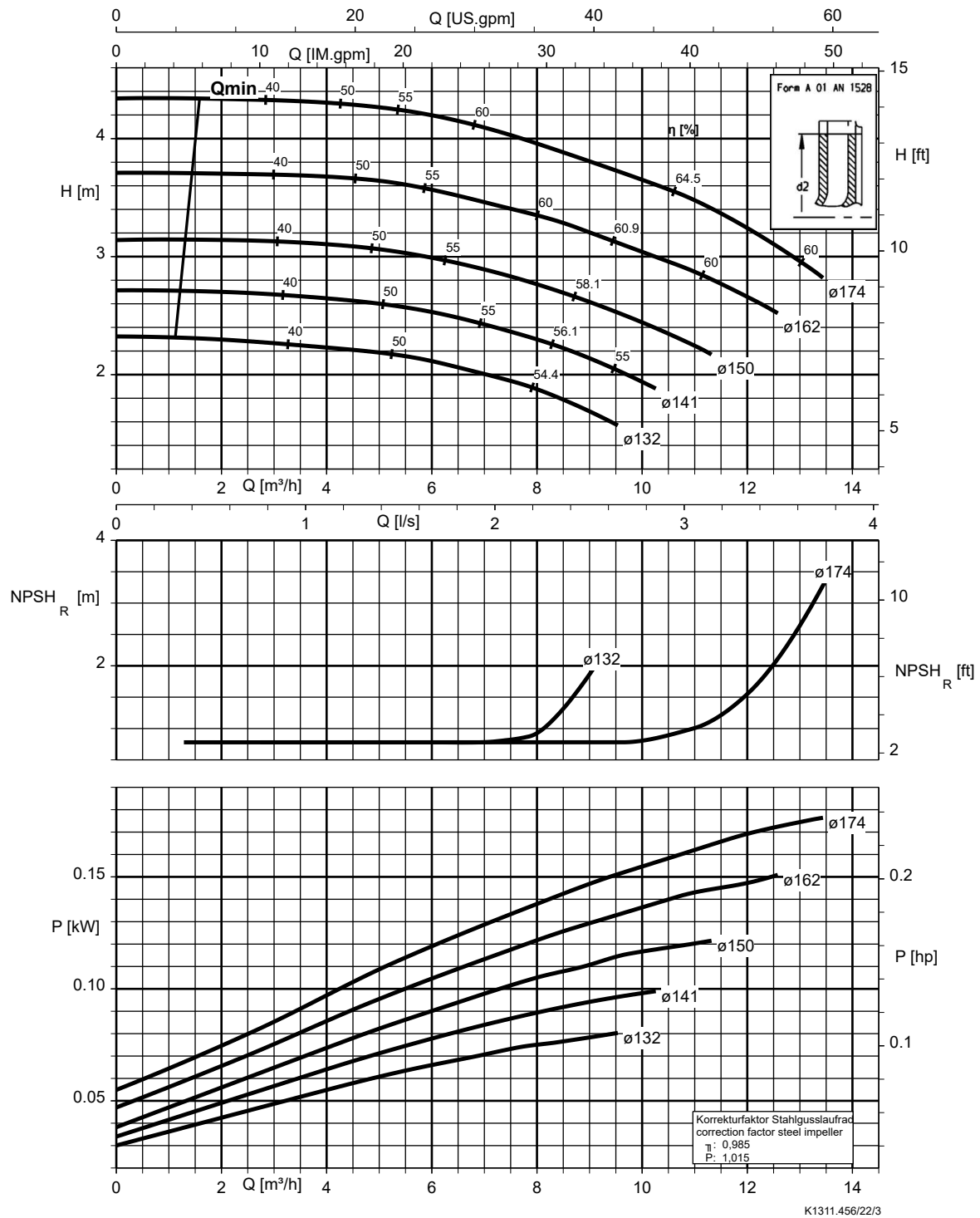
Etanorm 050-032-125,  $n = 960 \text{ min}^{-1}$

Etabloc



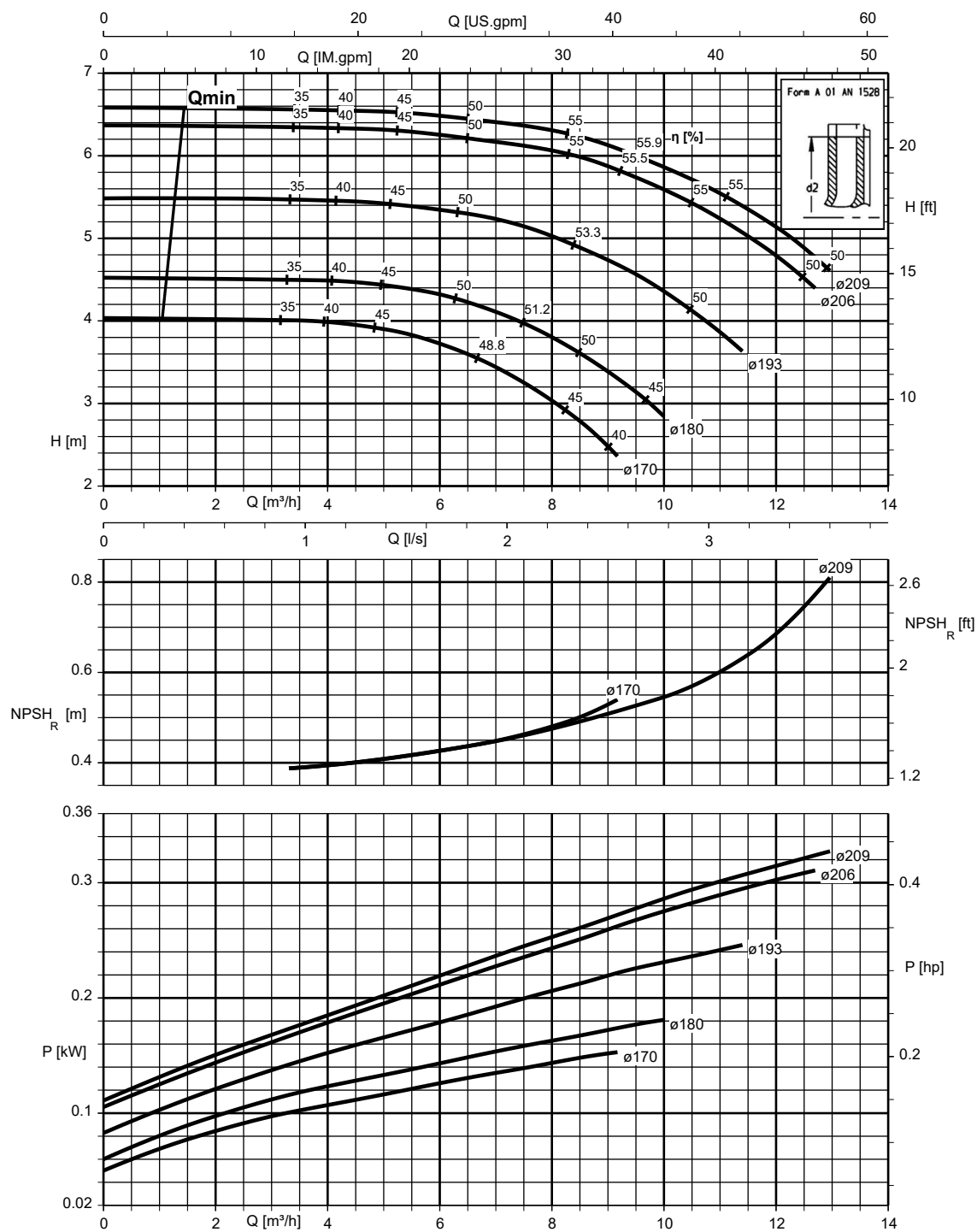
Etanorm 050-032-160,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



Etanorm 050-032-200,  $n = 960 \text{ min}^{-1}$

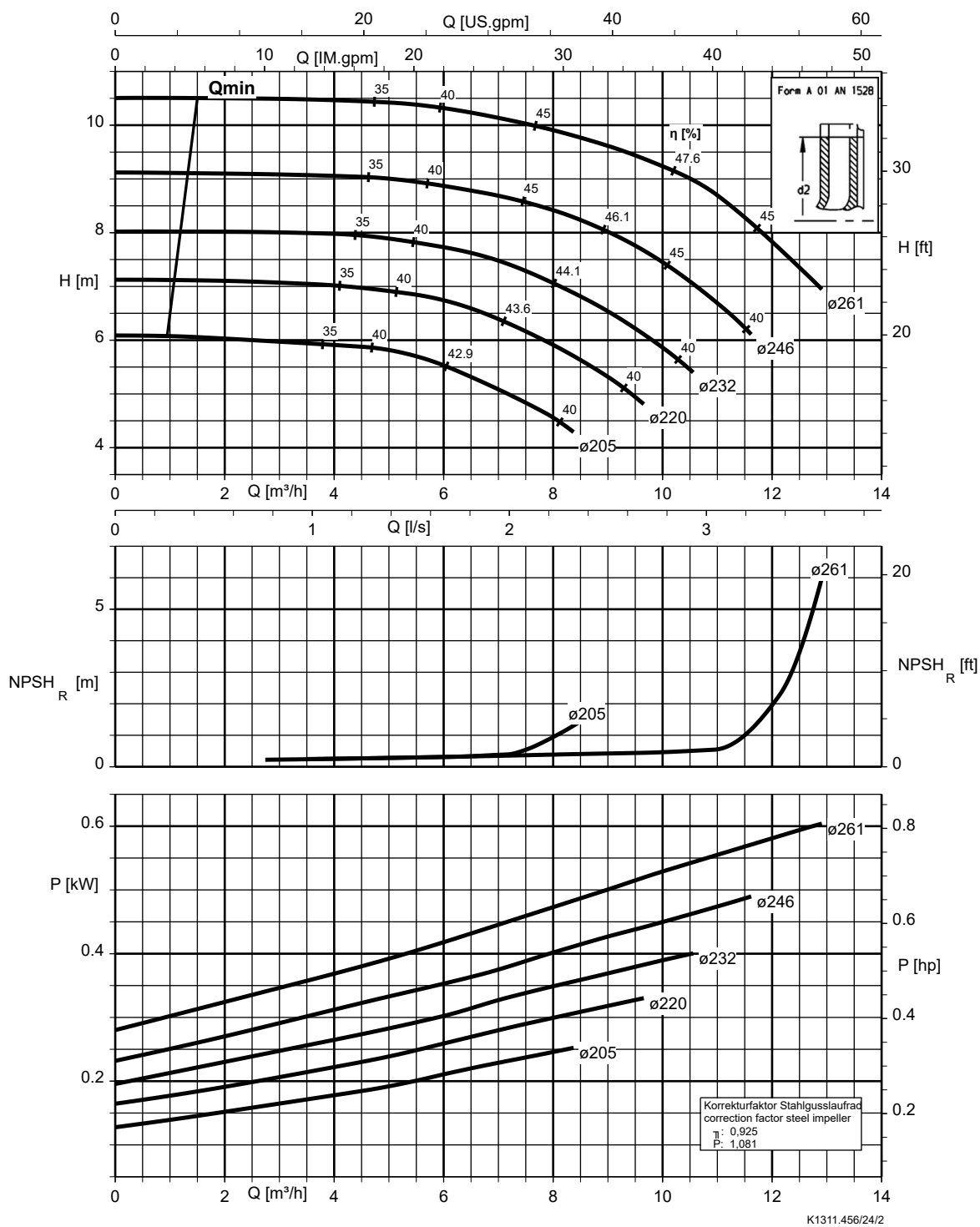
Etanorm SYT, Etabloc



K1311.456/23/1

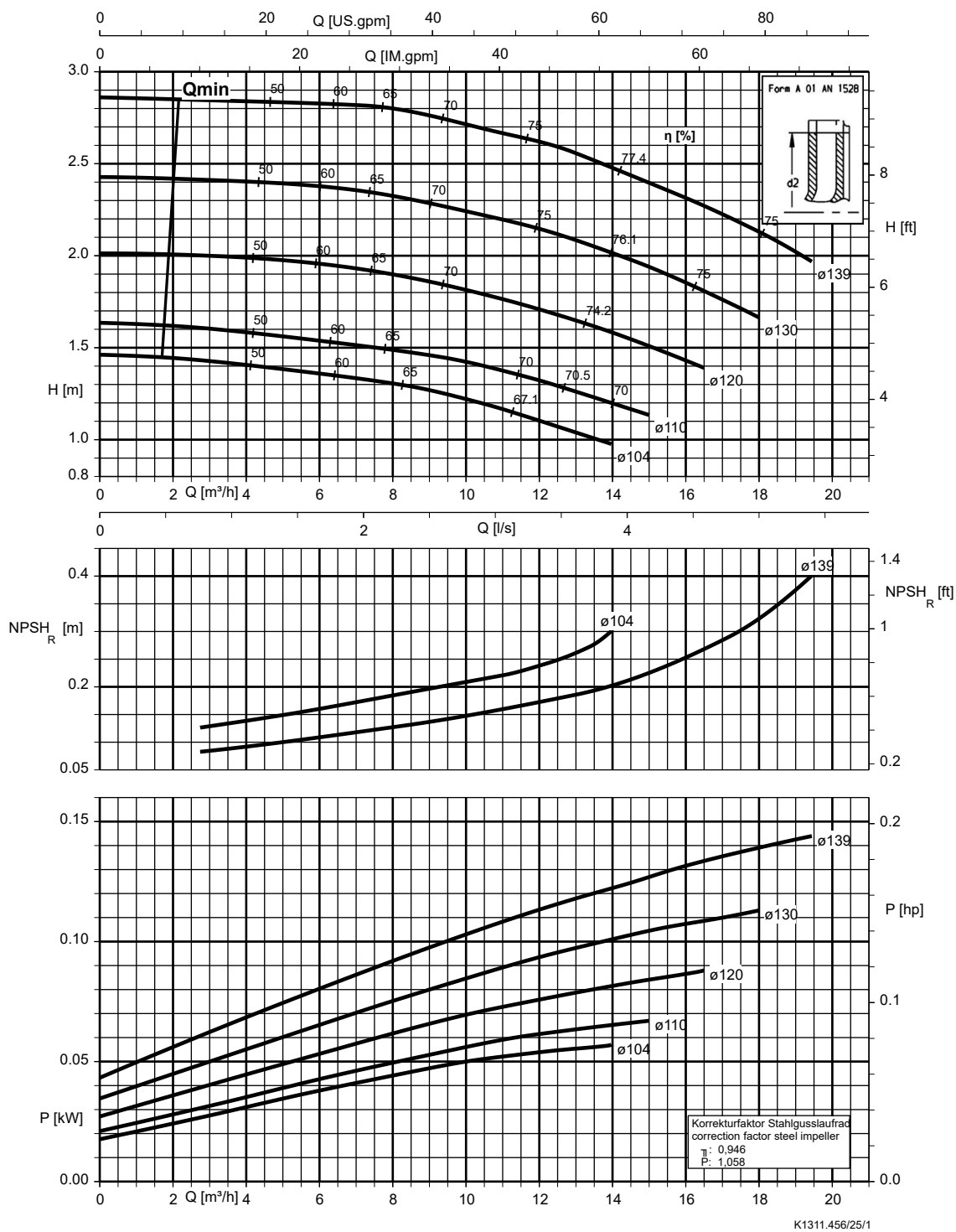
Etanorm 050-032-250,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



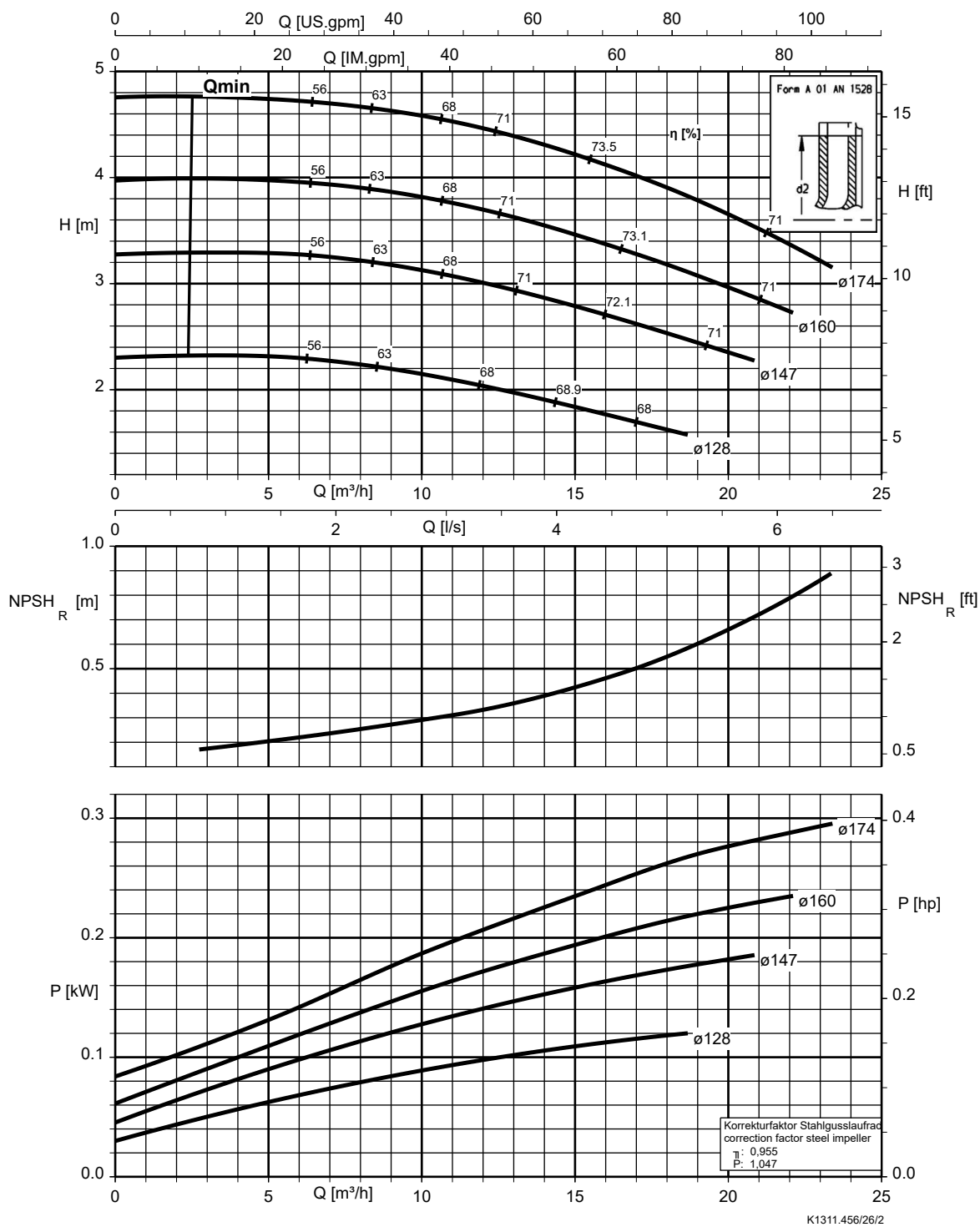
Etanorm 065-040-125,  $n = 960 \text{ min}^{-1}$

Etabloc



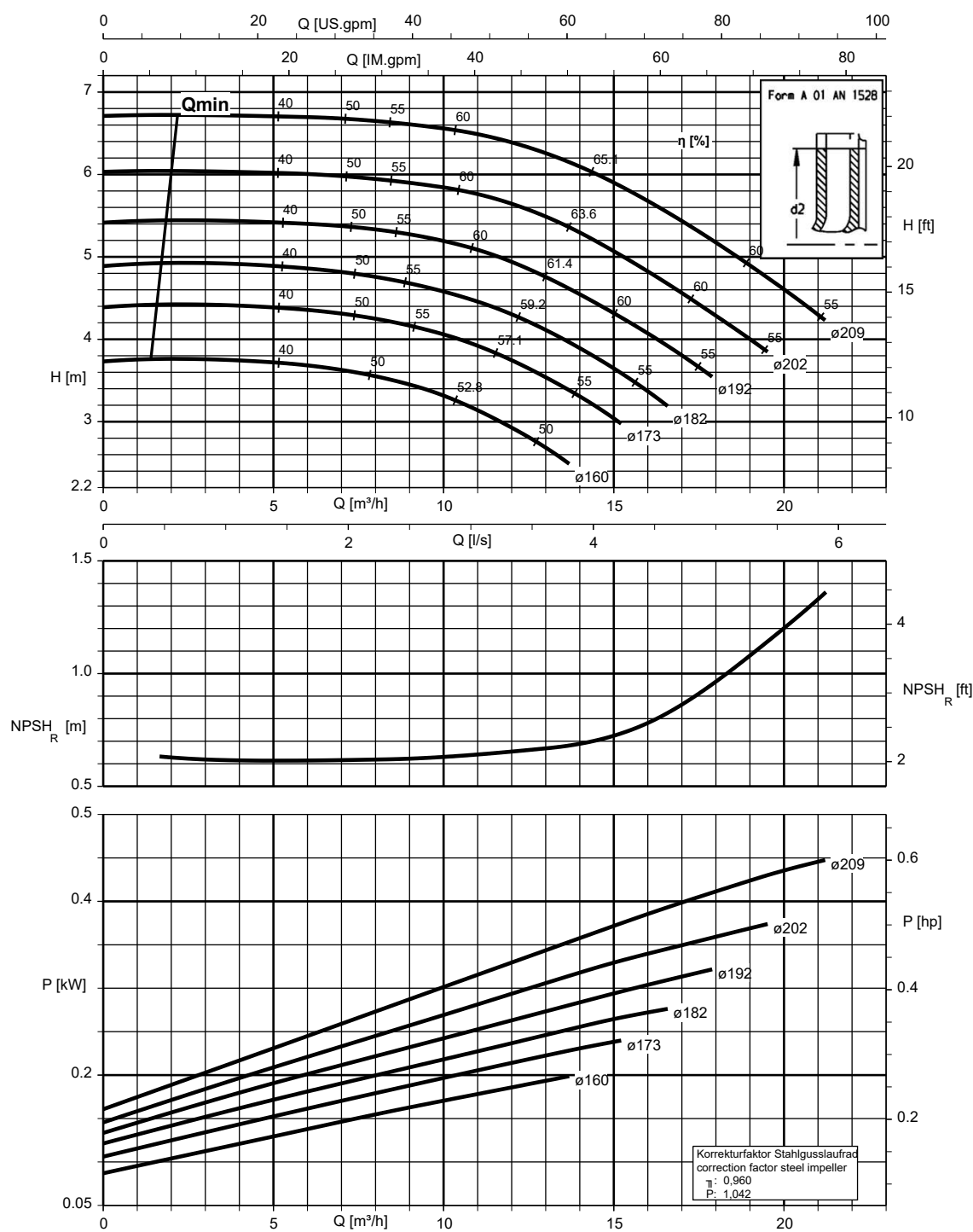
Etanorm 065-040-160,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



Etanorm 065-040-200,  $n = 960 \text{ min}^{-1}$

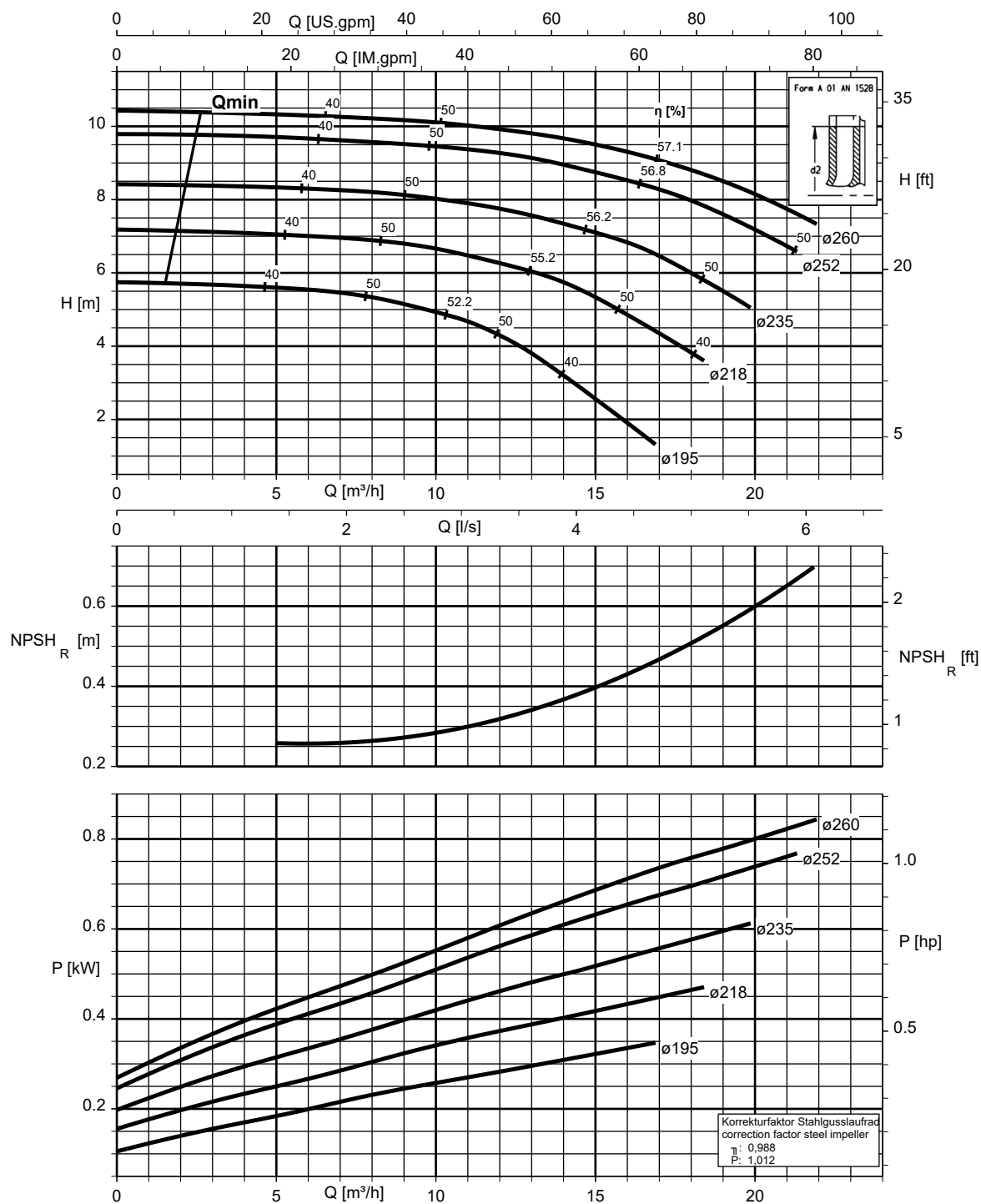
Etanorm SYT, Etabloc



K1311.456/27/1

Etanorm 065-040-250,  $n = 960 \text{ min}^{-1}$

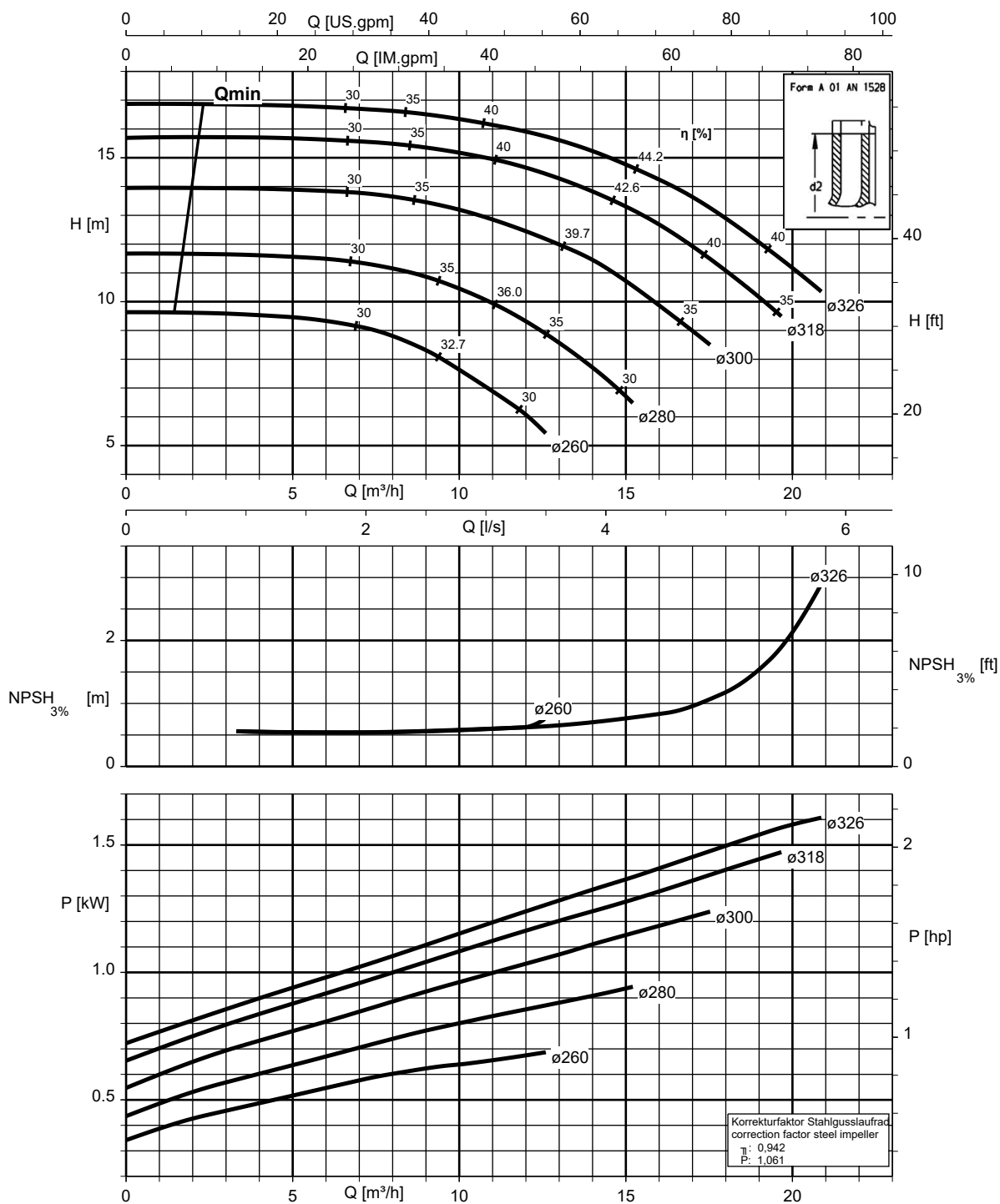
Etanorm SYT, Etabloc



K1311.456/28/2

Etanorm 065-040-315,  $n = 960 \text{ min}^{-1}$

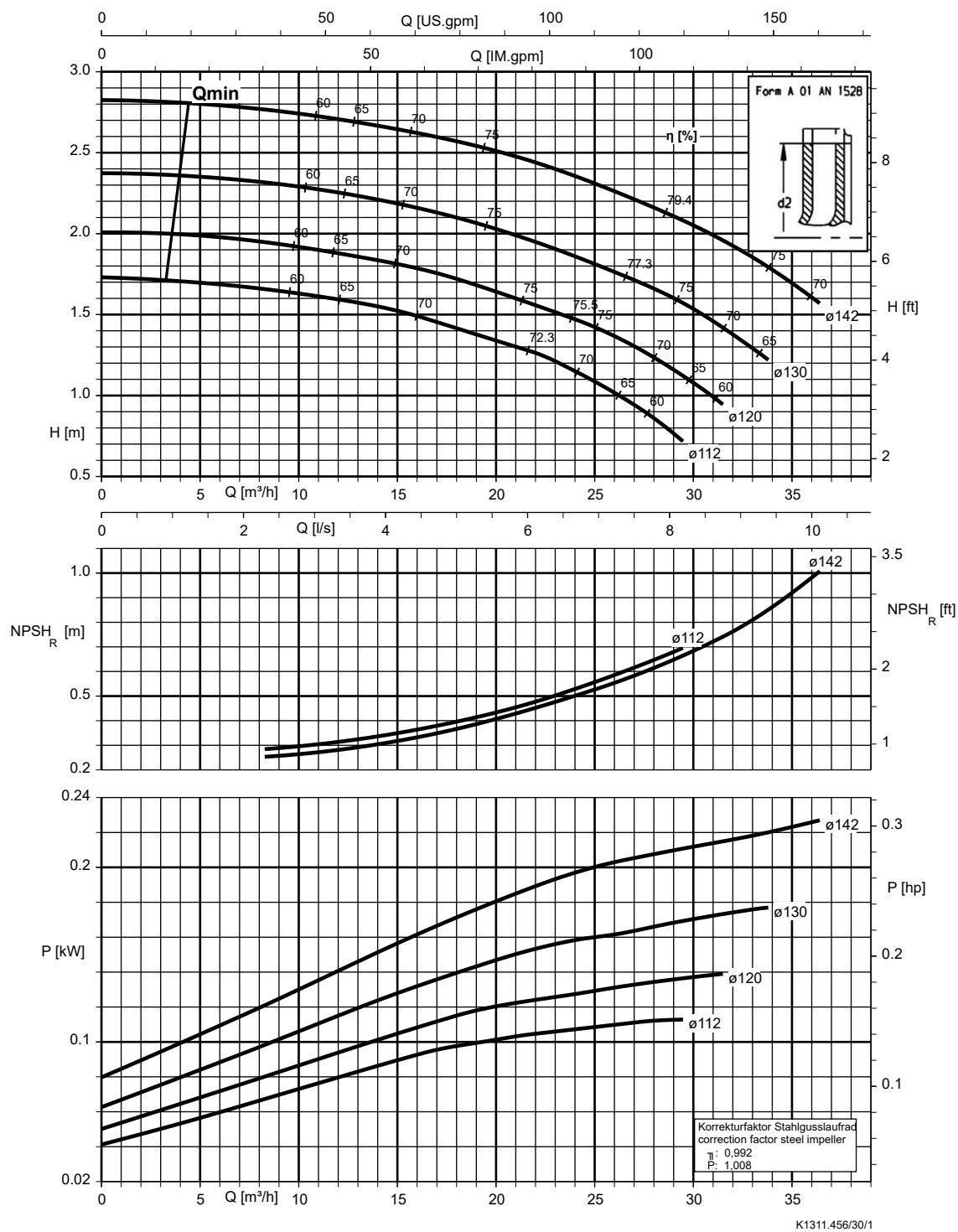
Etanorm SYT, Etabloc



K1311.456/29/3

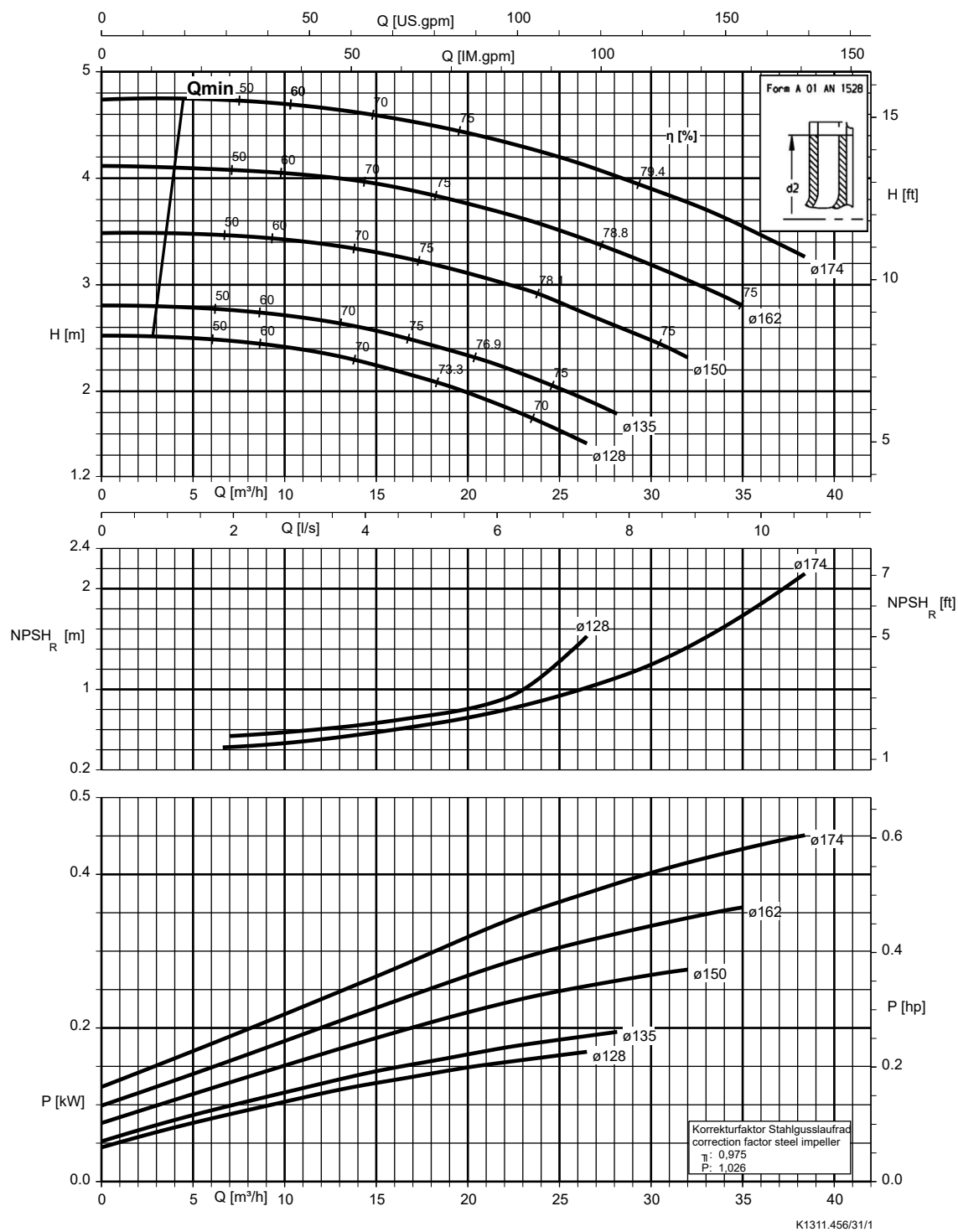
Etanorm 065-050-125,  $n = 960 \text{ min}^{-1}$

Etabloc



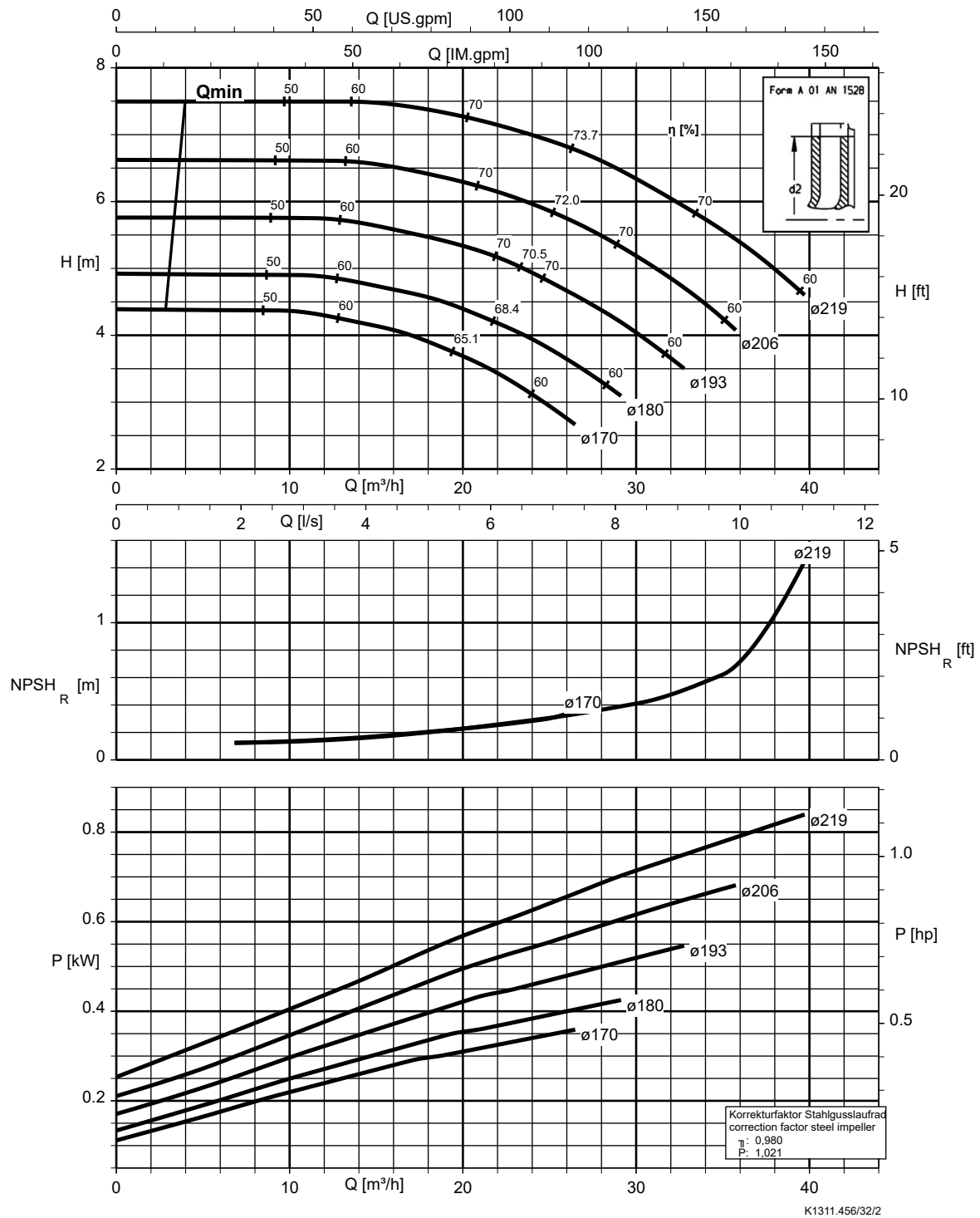
Etanorm 065-050-160,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



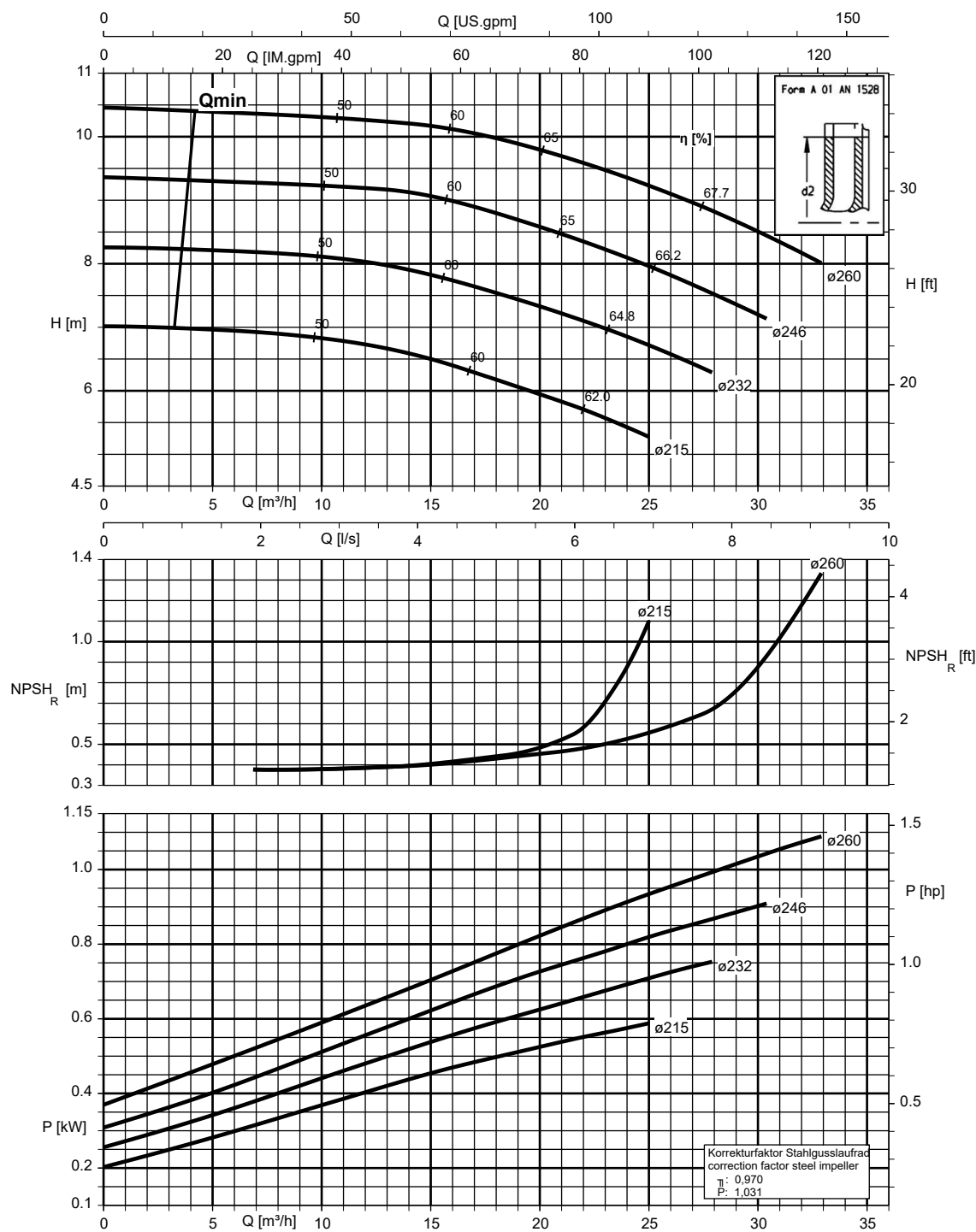
Etanorm 065-050-200,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



Etanorm 065-050-250,  $n = 960 \text{ min}^{-1}$

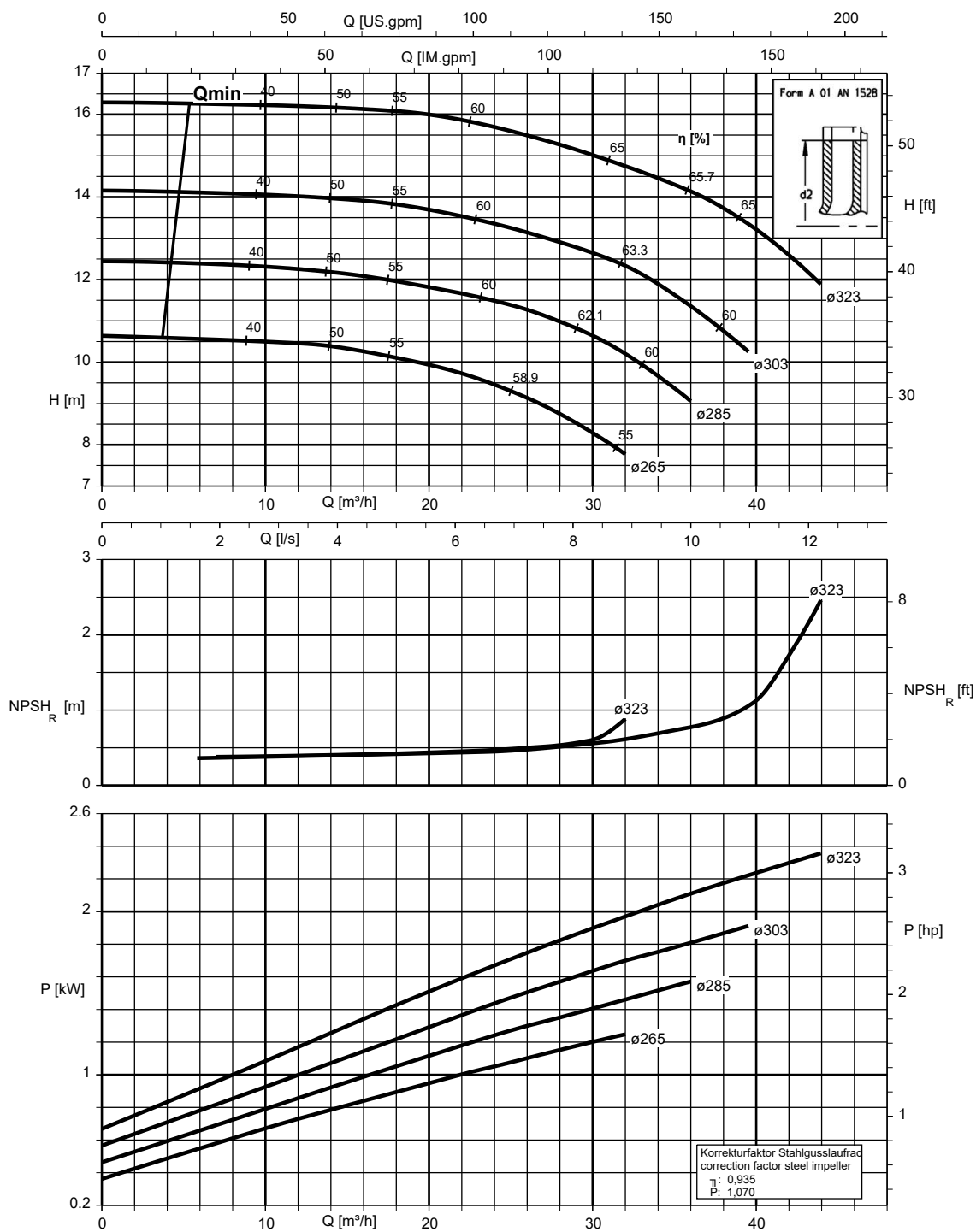
Etanorm SYT, Etabloc



K1311.456/33/1

Etanorm 065-050-315,  $n = 960 \text{ min}^{-1}$

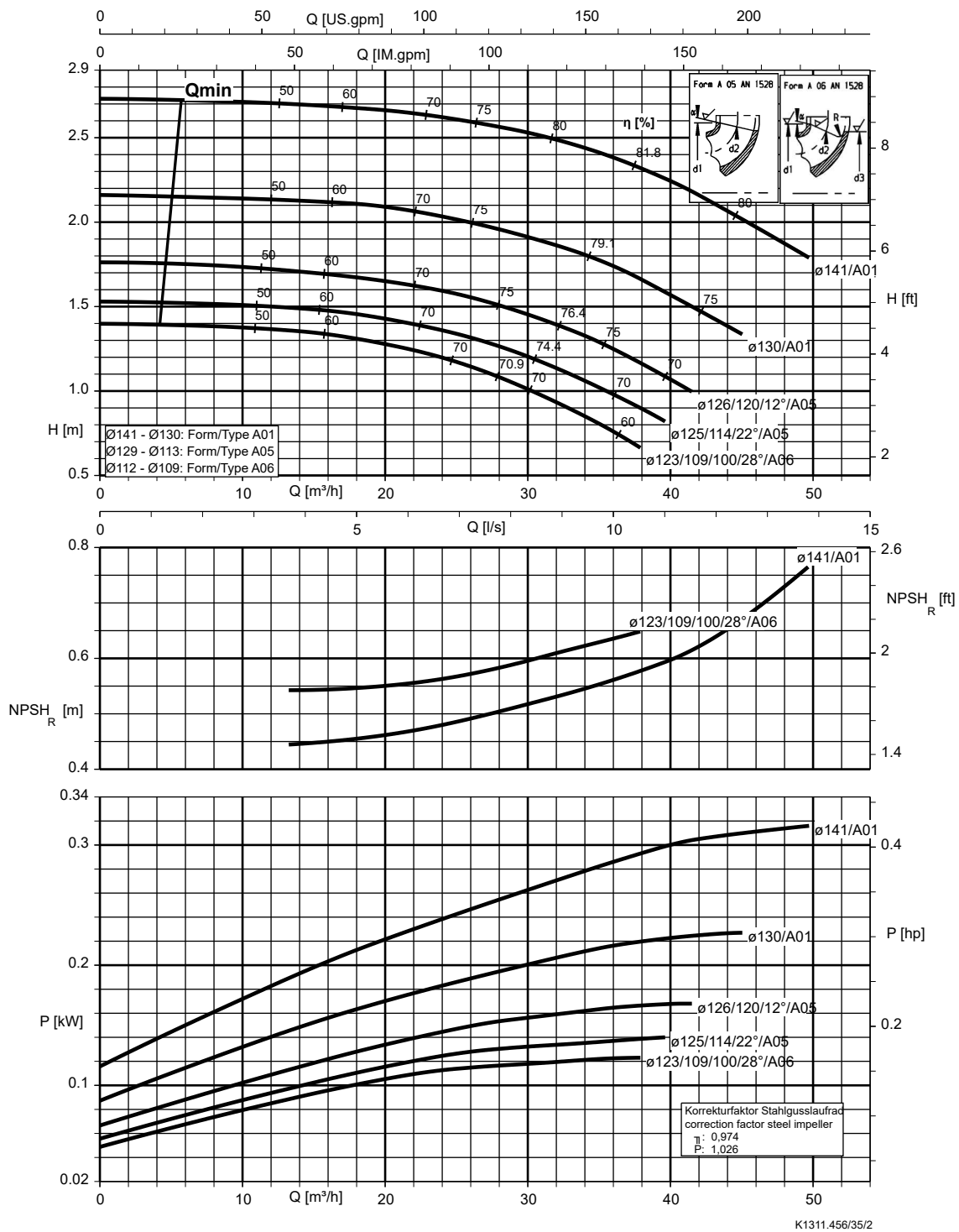
Etanorm SYT, Etabloc



K1311.456/34/2

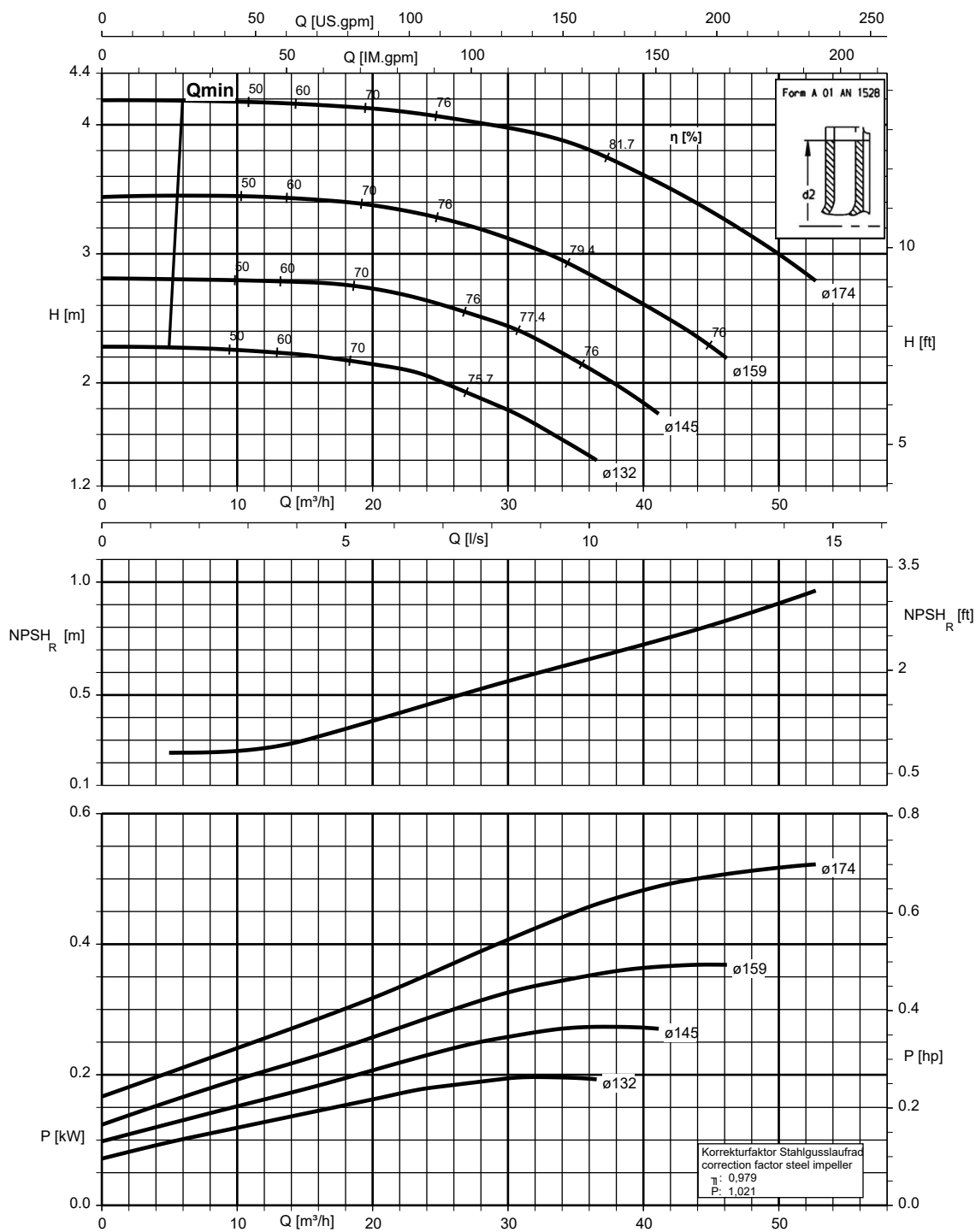
Etanorm 080-065-125,  $n = 960 \text{ min}^{-1}$

Etabloc



Etanorm 080-065-160,  $n = 960 \text{ min}^{-1}$

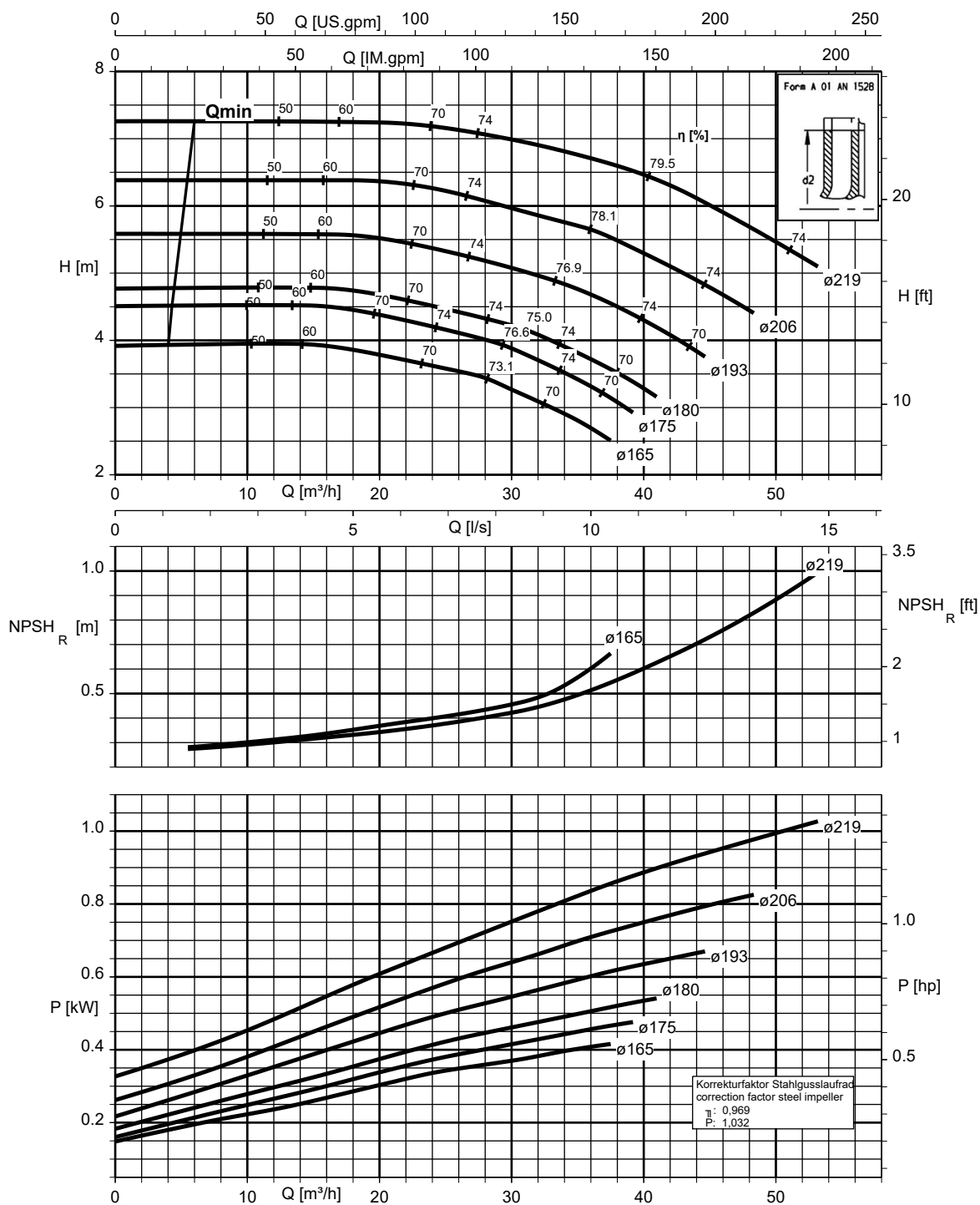
Etanorm SYT, Etabloc



K1311.456/36/2

Etanorm 080-065-200,  $n = 960 \text{ min}^{-1}$

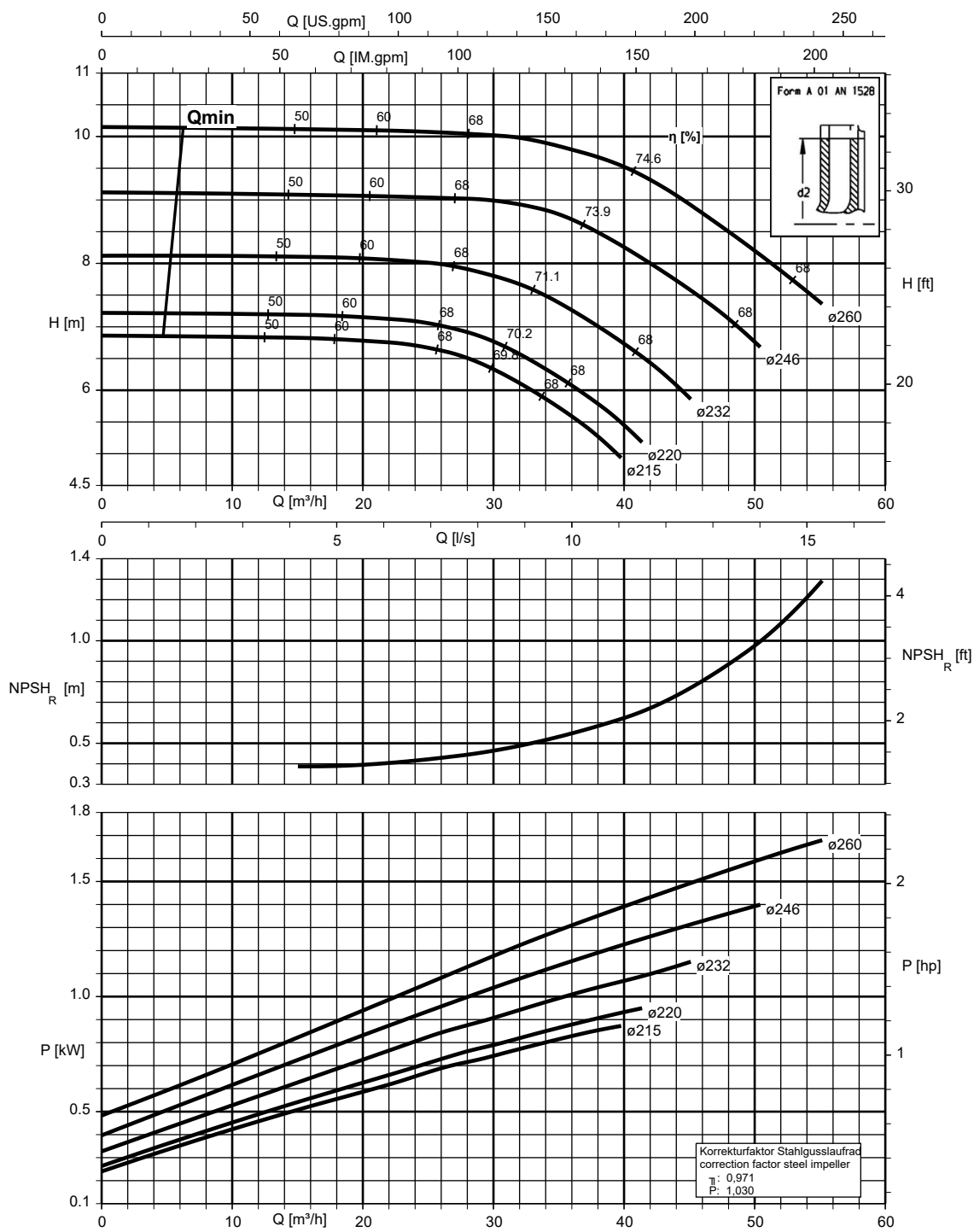
Etanorm SYT, Etabloc



K1311.456/37/2

Etanorm 080-065-250,  $n = 960 \text{ min}^{-1}$

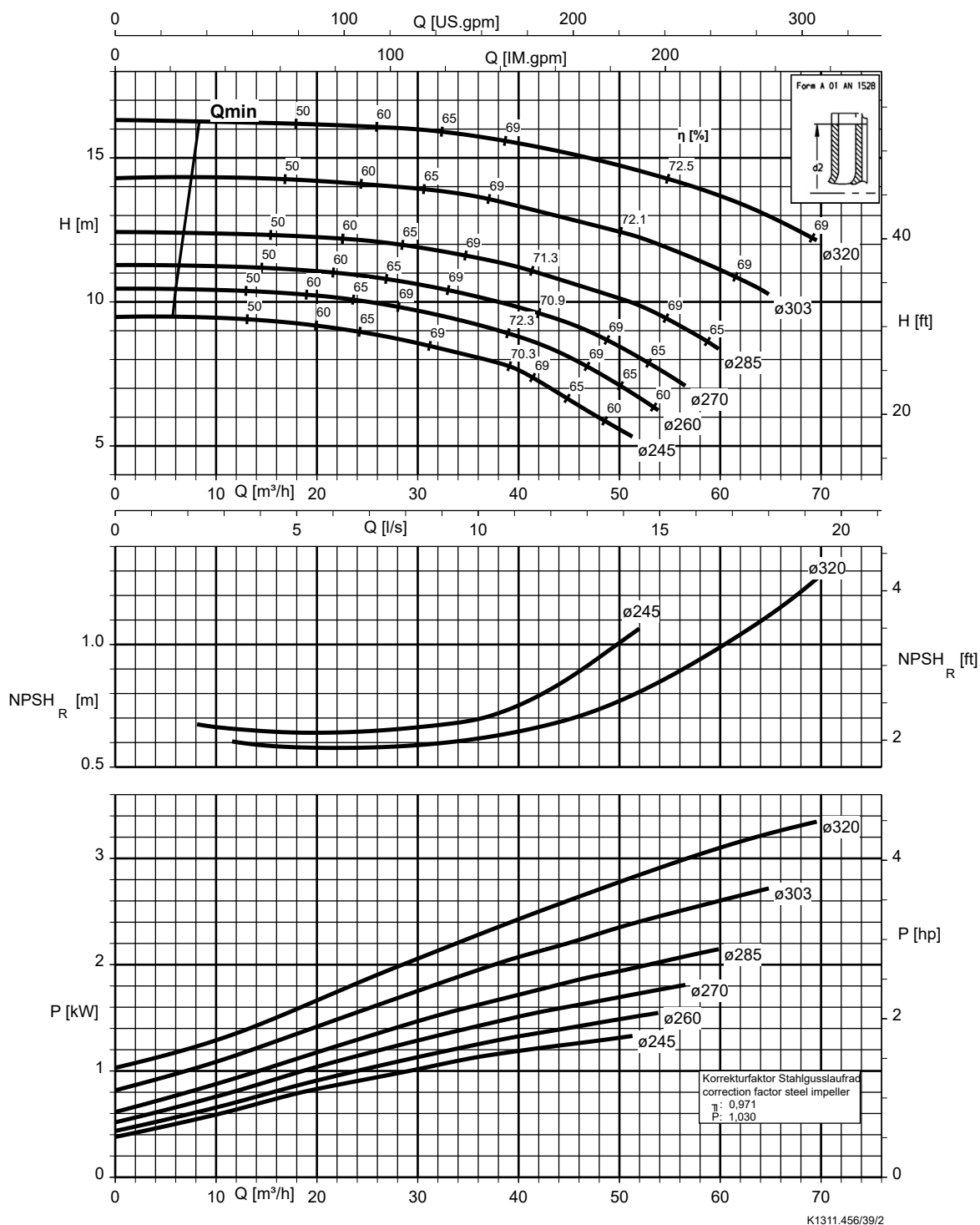
Etanorm SYT, Etabloc



K1311.456/38/2

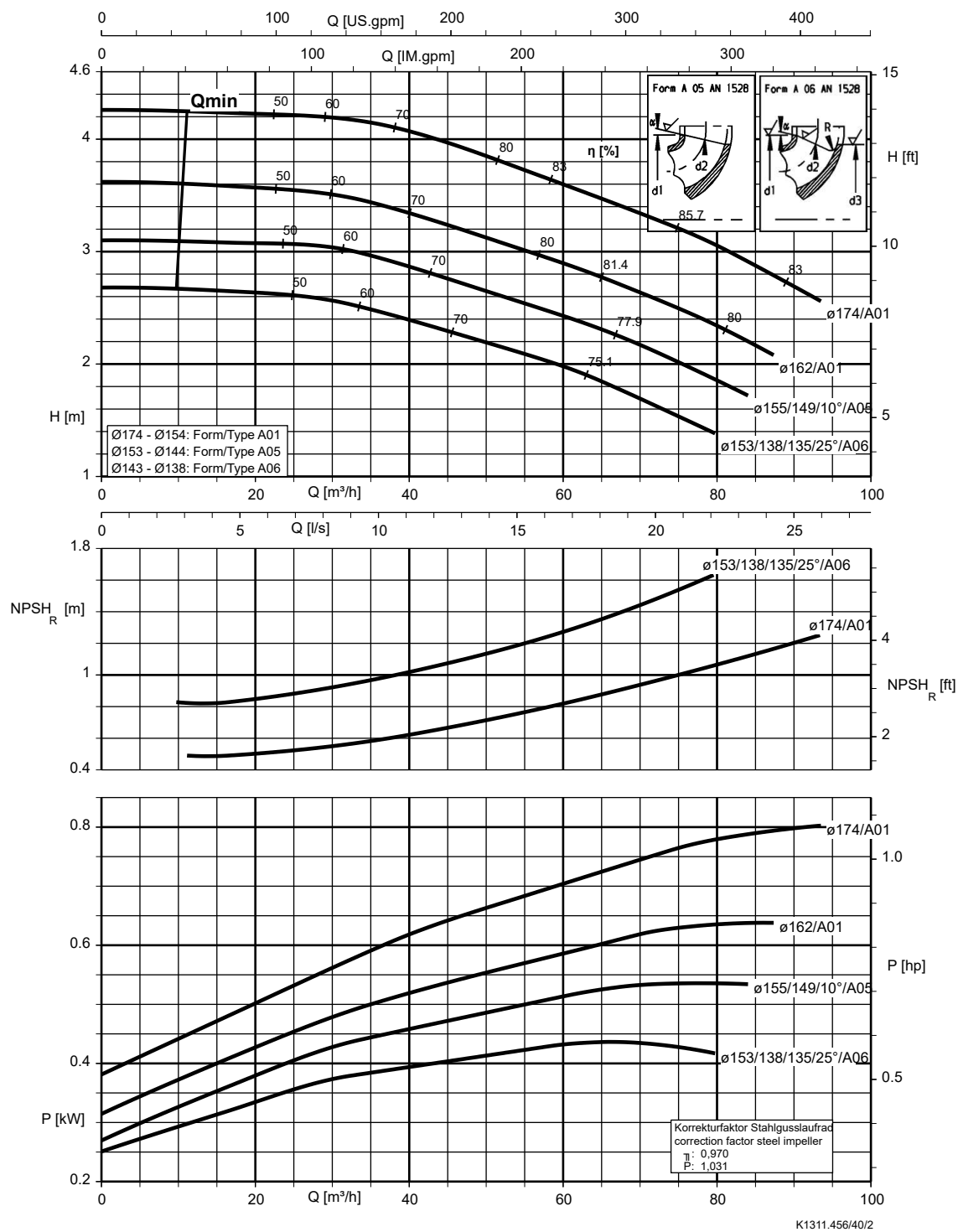
Etanorm 080-065-315,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



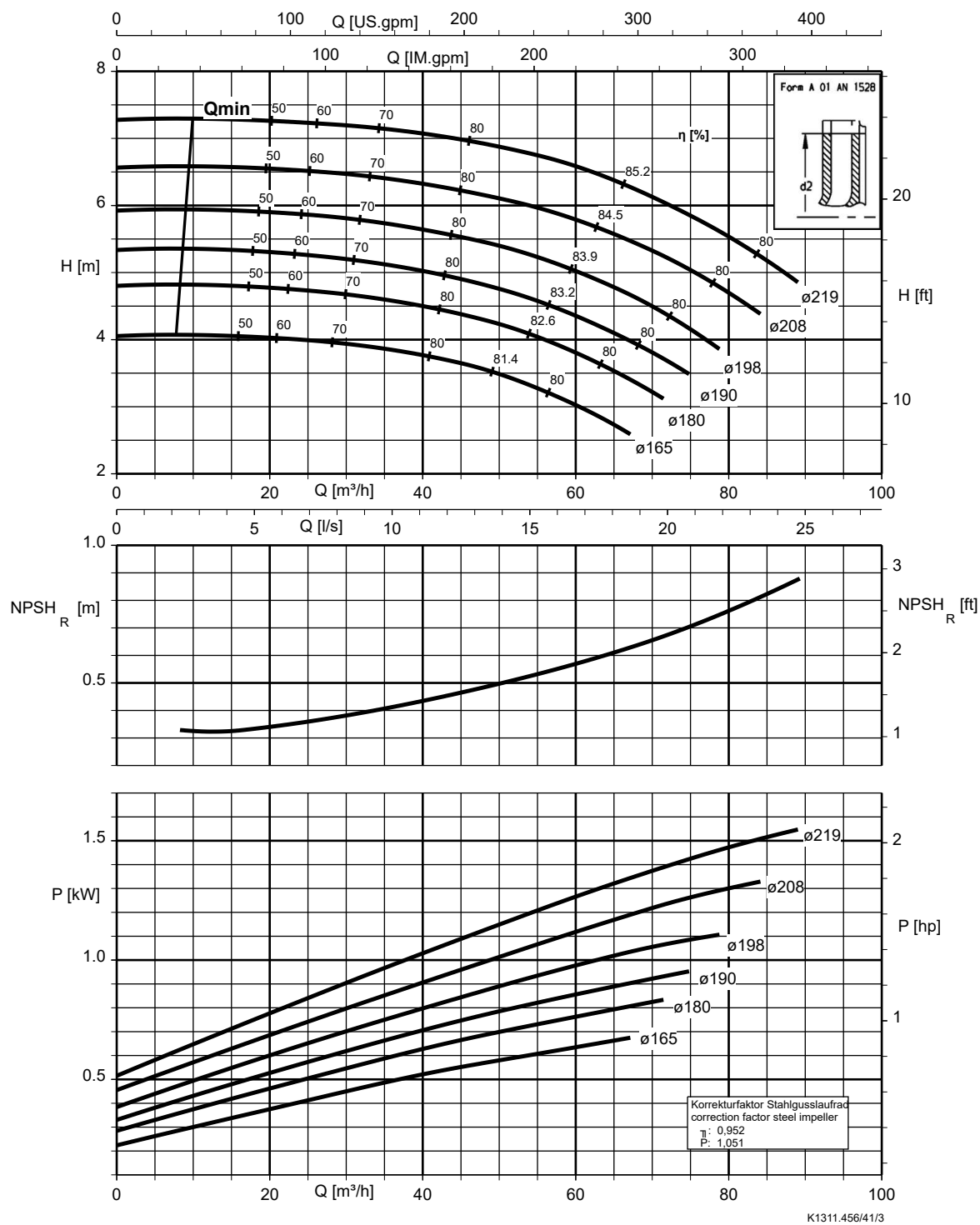
Etanorm 100-080-160,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc

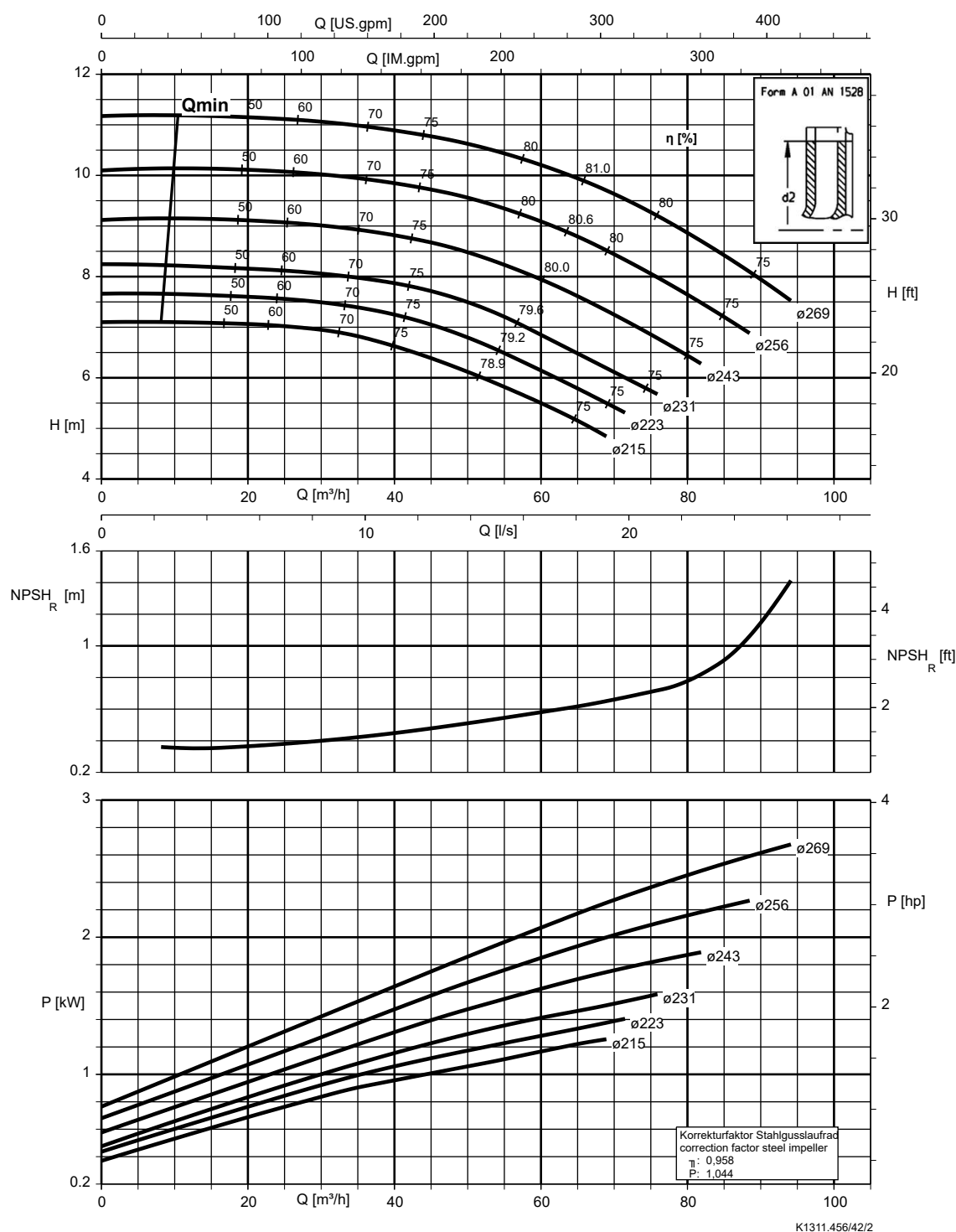


Etanorm 100-080-200,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



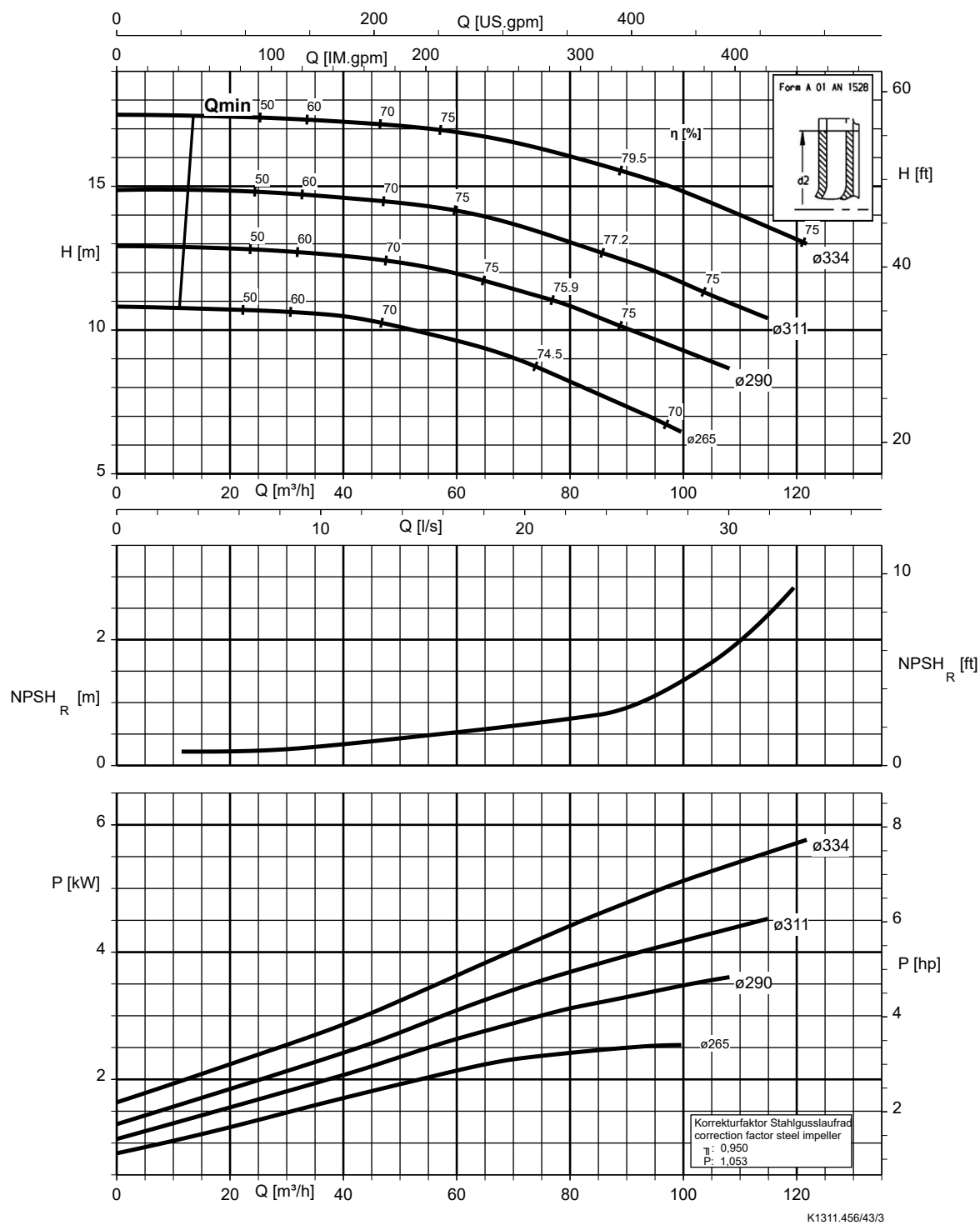
Etanorm SYT, Etabloc



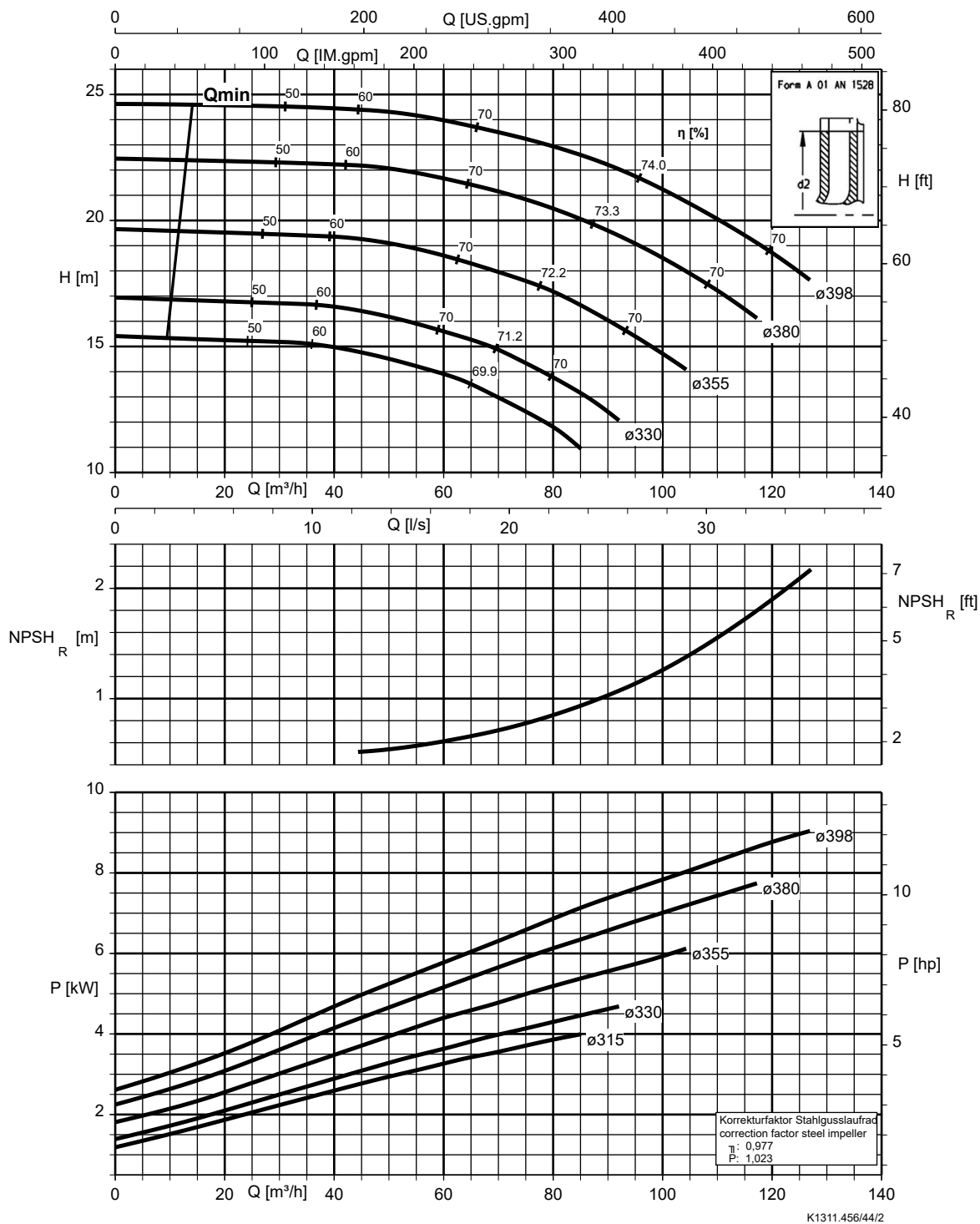
1311.45/11-DE

Etanorm 100-080-315,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc

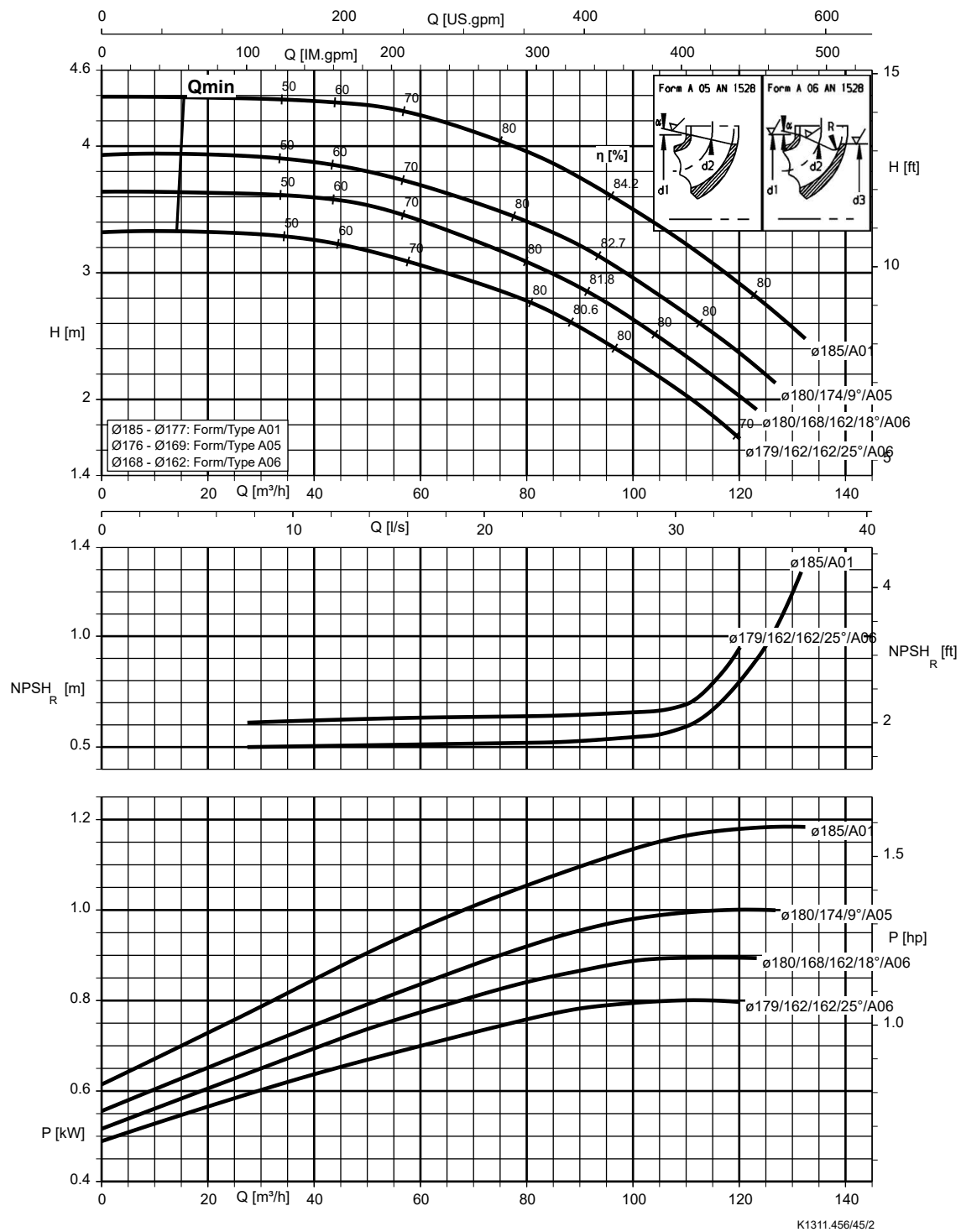


Etanorm 100-080-400,  $n = 960 \text{ min}^{-1}$



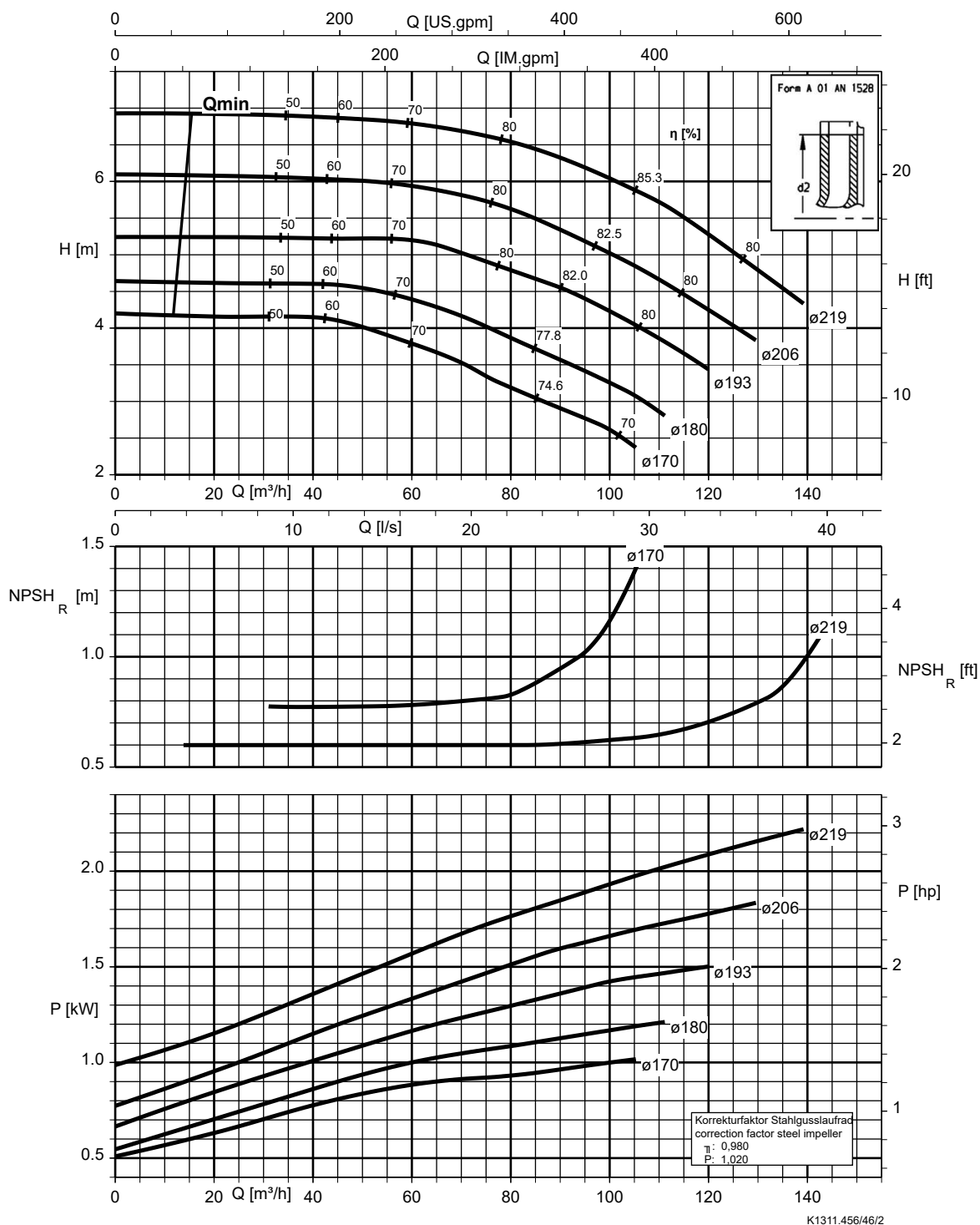
Etanorm 125-100-160,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



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

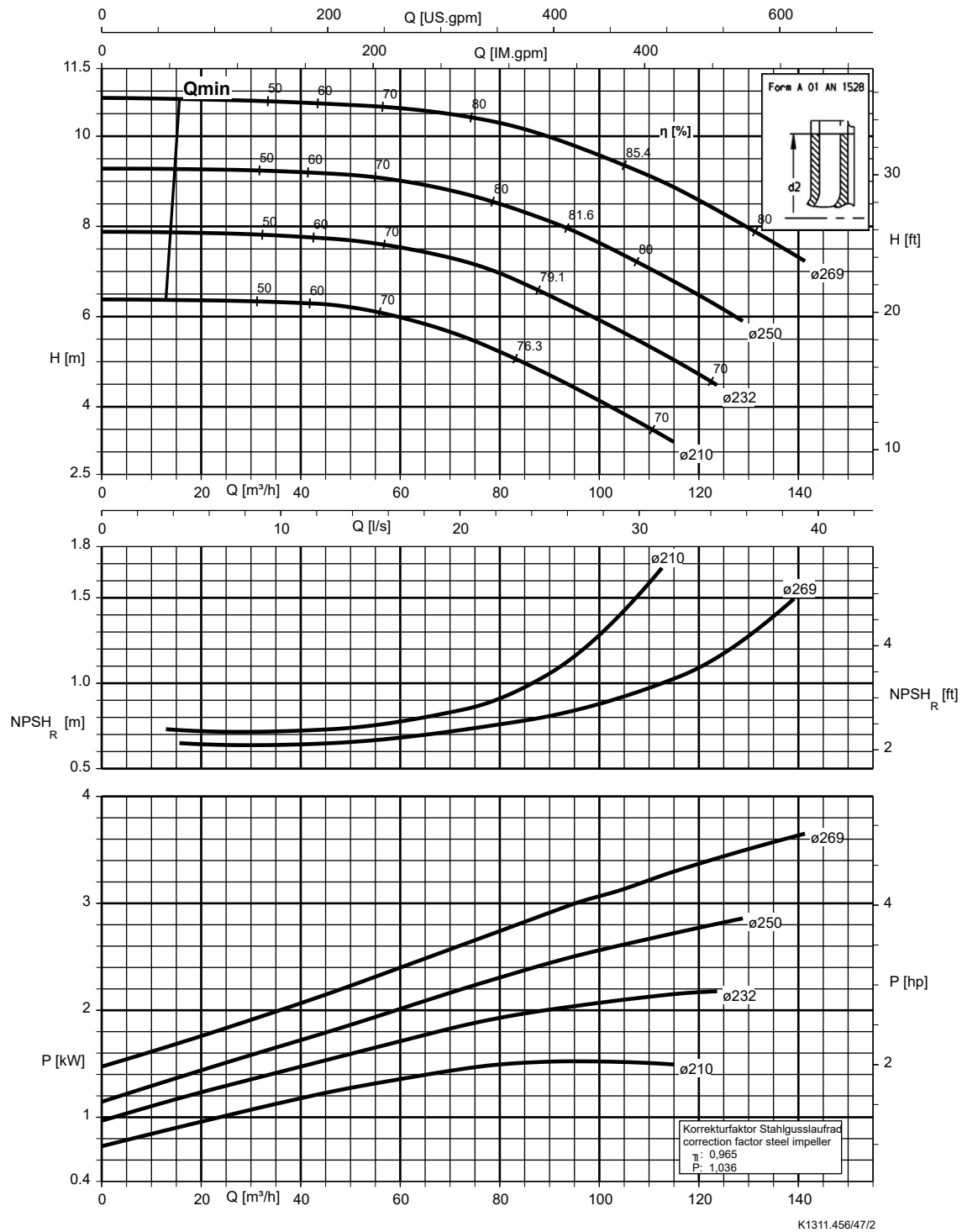
Etanorm SYT, Etabloc



1311.45/11-DE

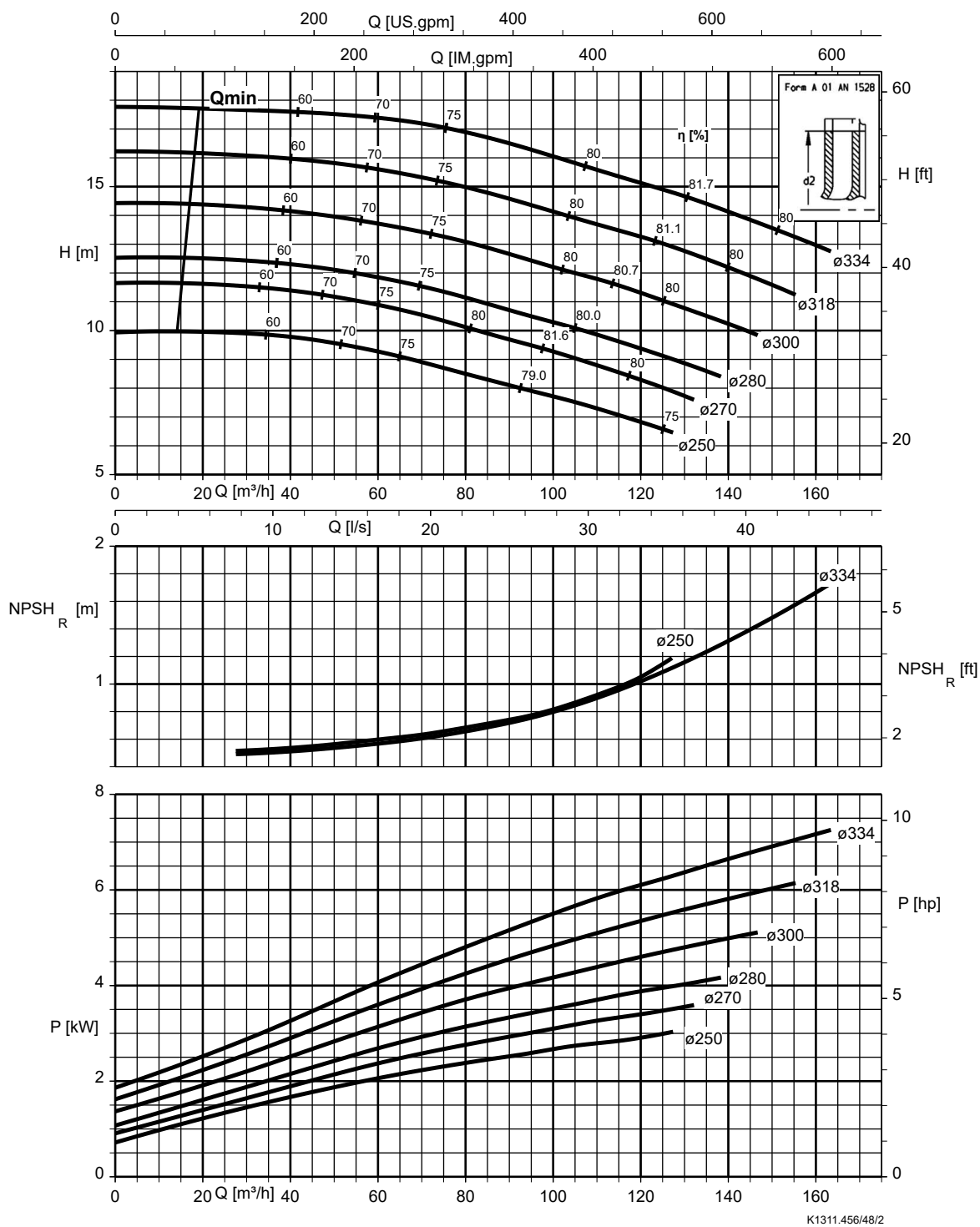
Etanorm 125-100-250,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc

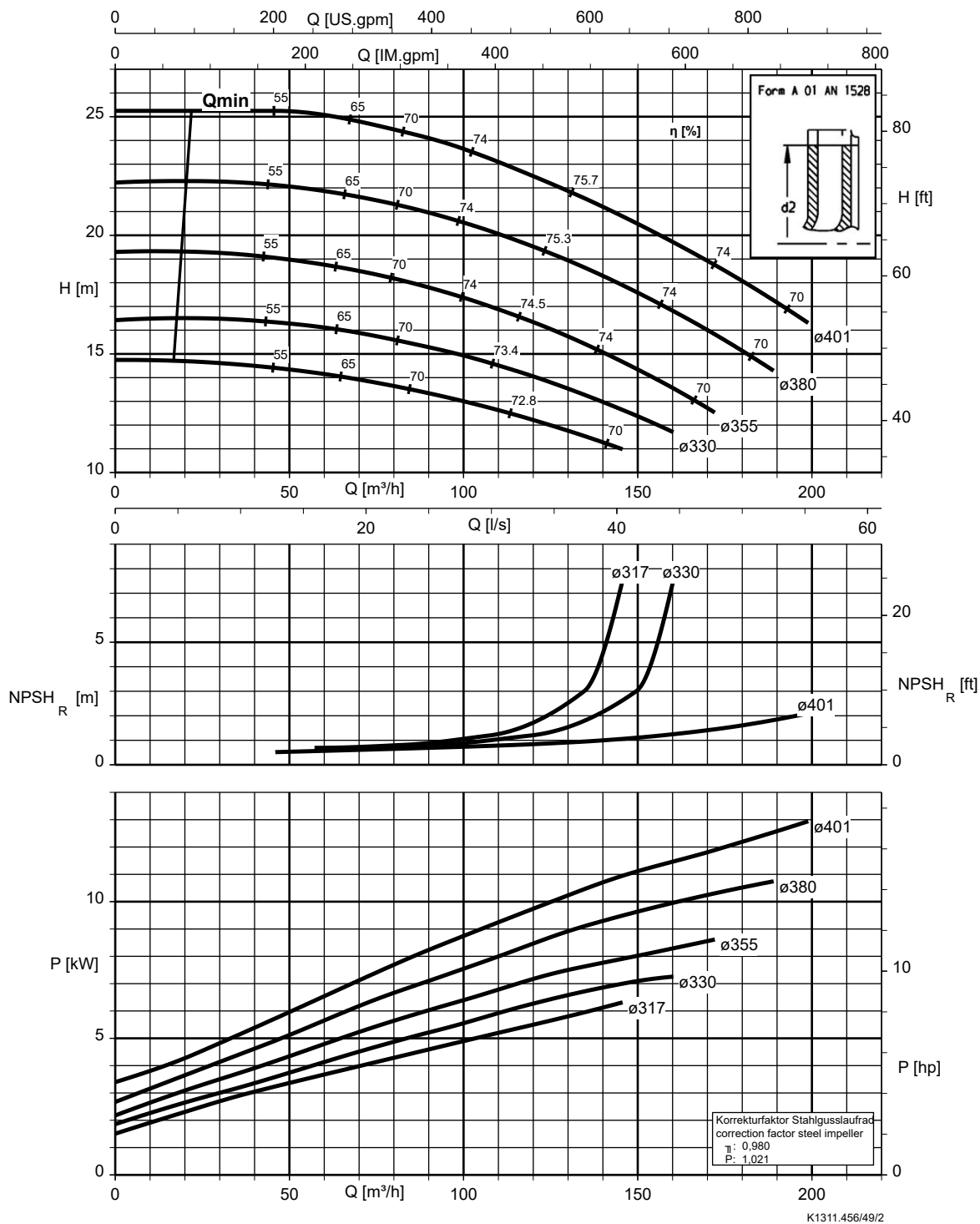


Etanorm 125-100-315,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc

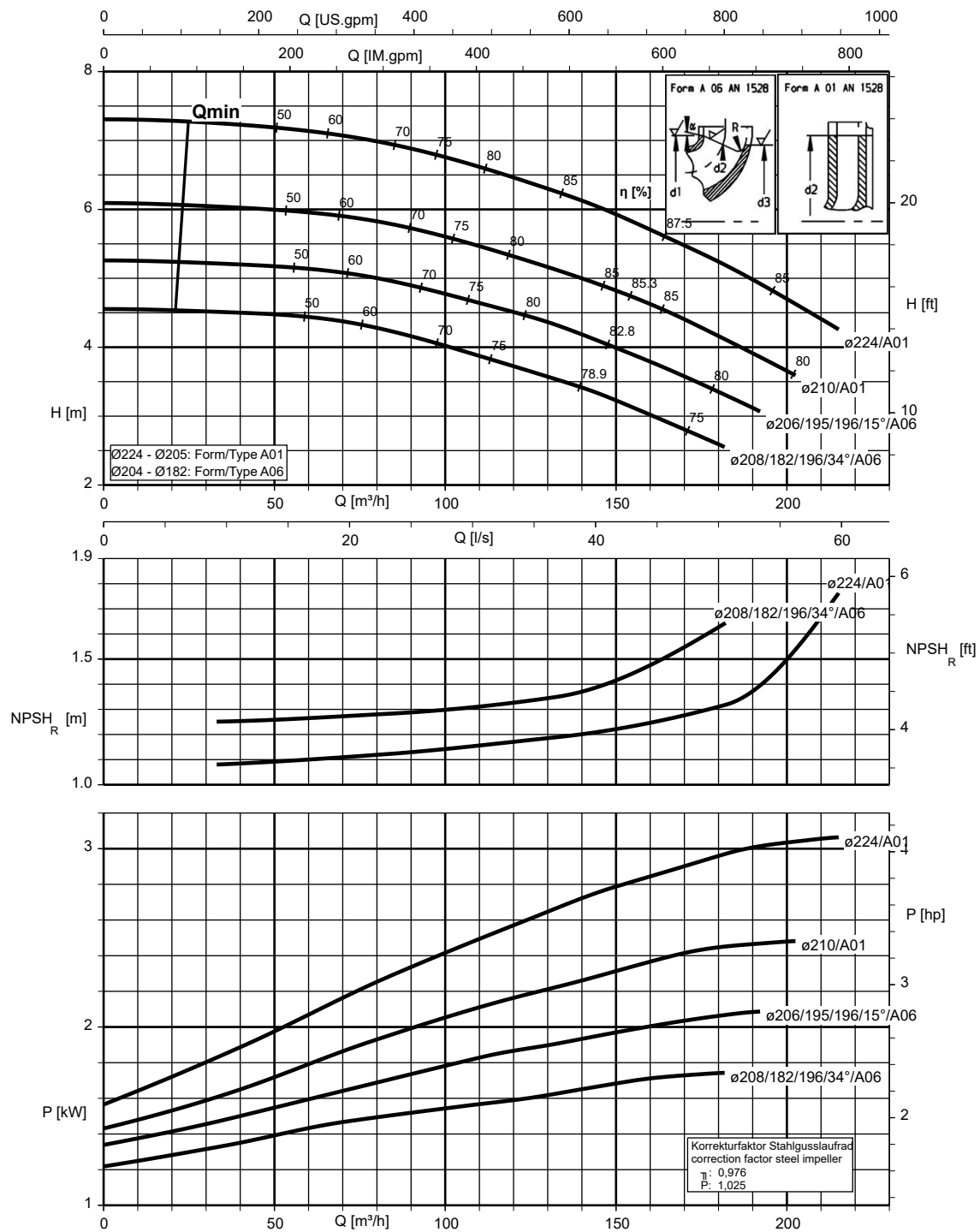


Etanorm 125-100-400,  $n = 960 \text{ min}^{-1}$



Etanorm 150-125-200,  $n = 960 \text{ min}^{-1}$

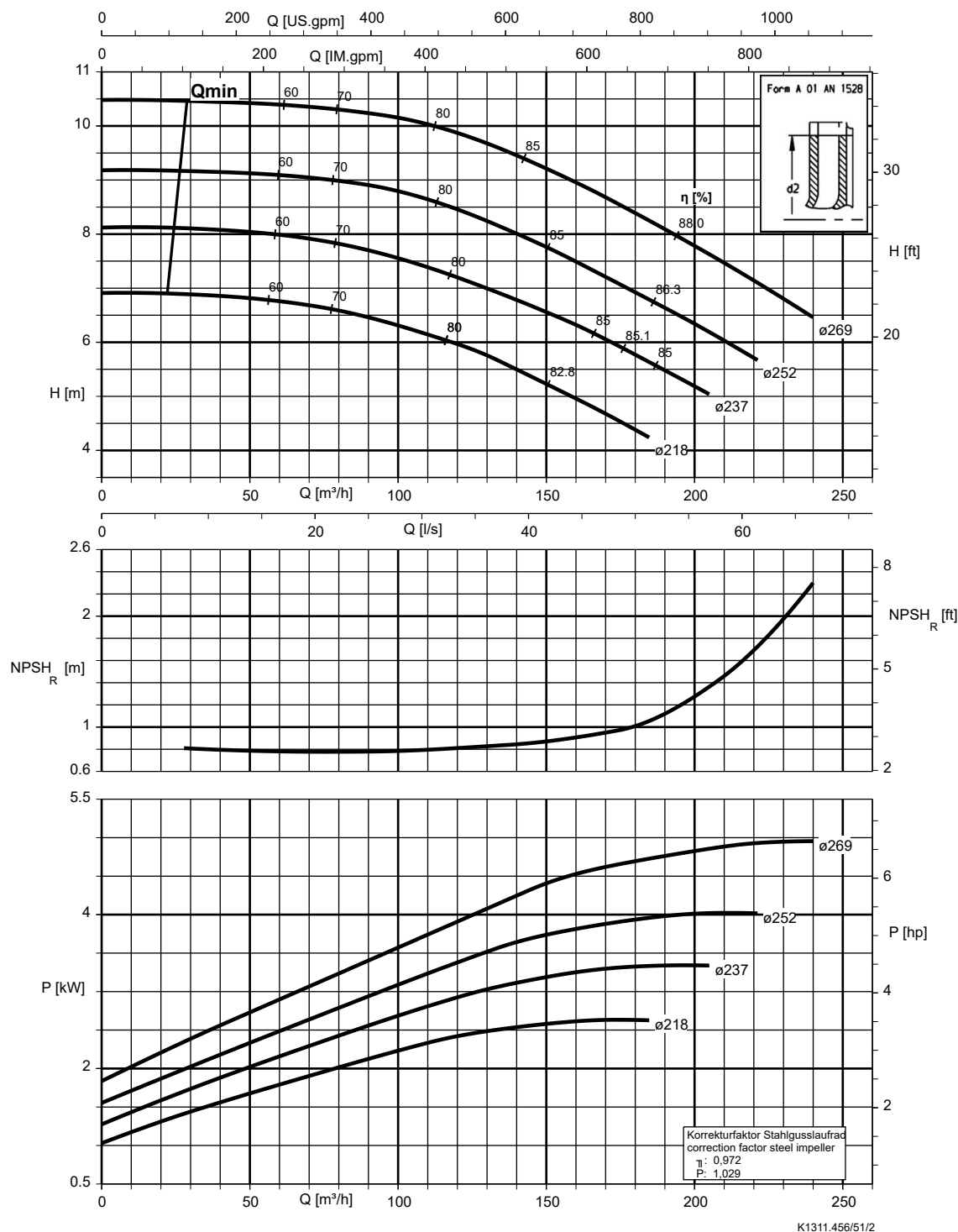
Etanorm SYT, Etabloc



K1311.456/50/2

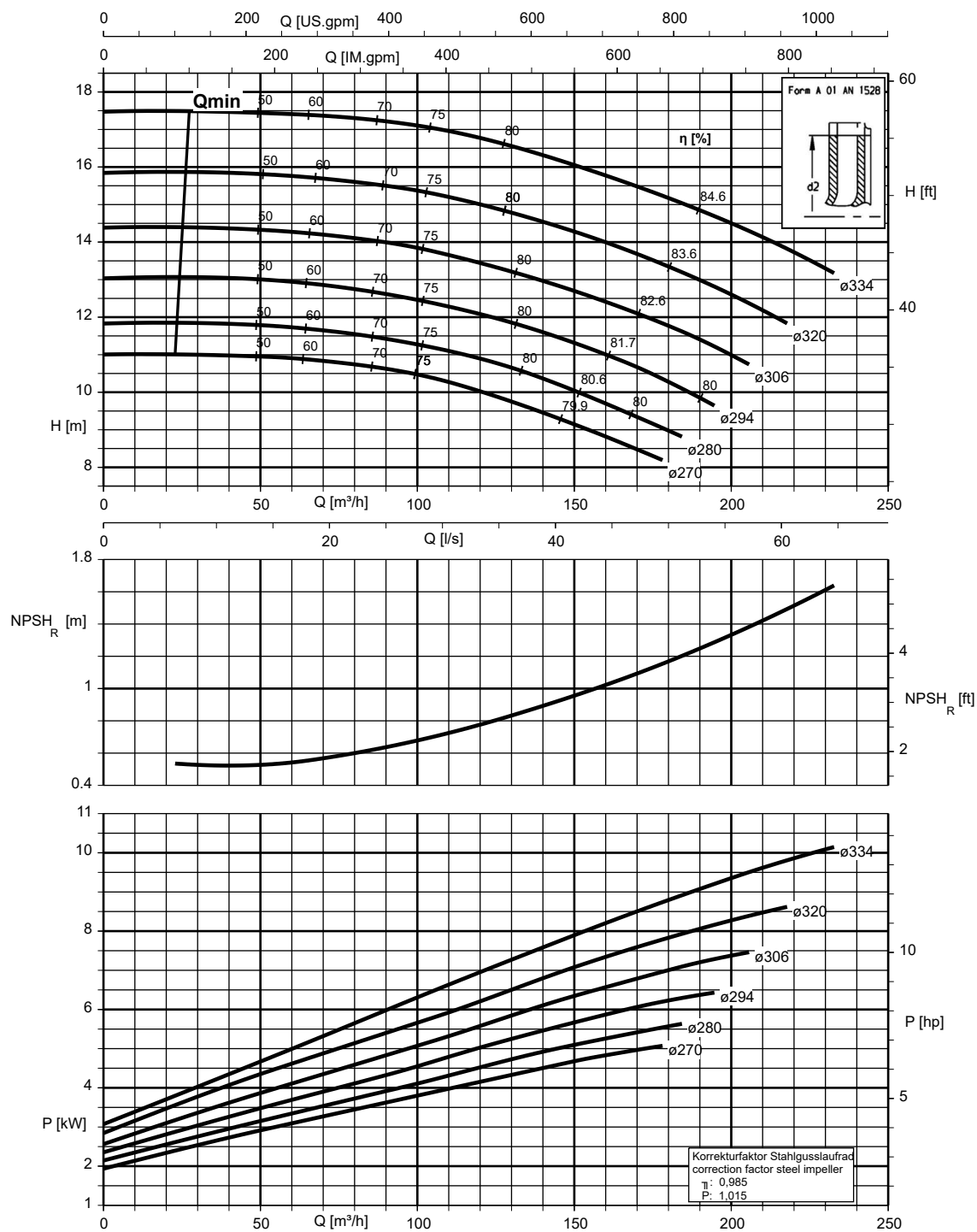
Etanorm 150-125-250,  $n = 960 \text{ min}^{-1}$

Etanorm SYT, Etabloc



Etanorm 150-125-315,  $n = 960 \text{ min}^{-1}$

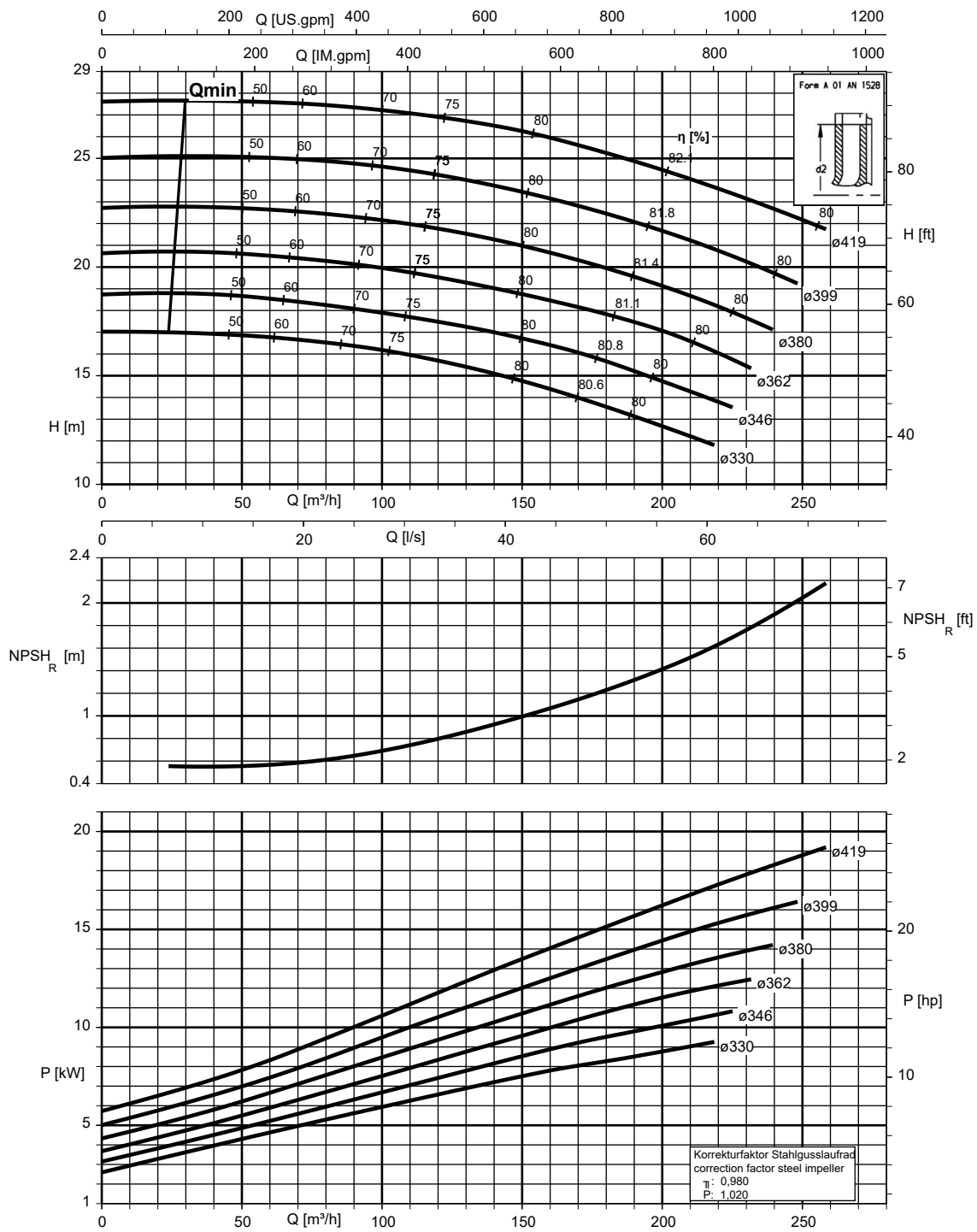
Etanorm SYT



K1311.456/52/2

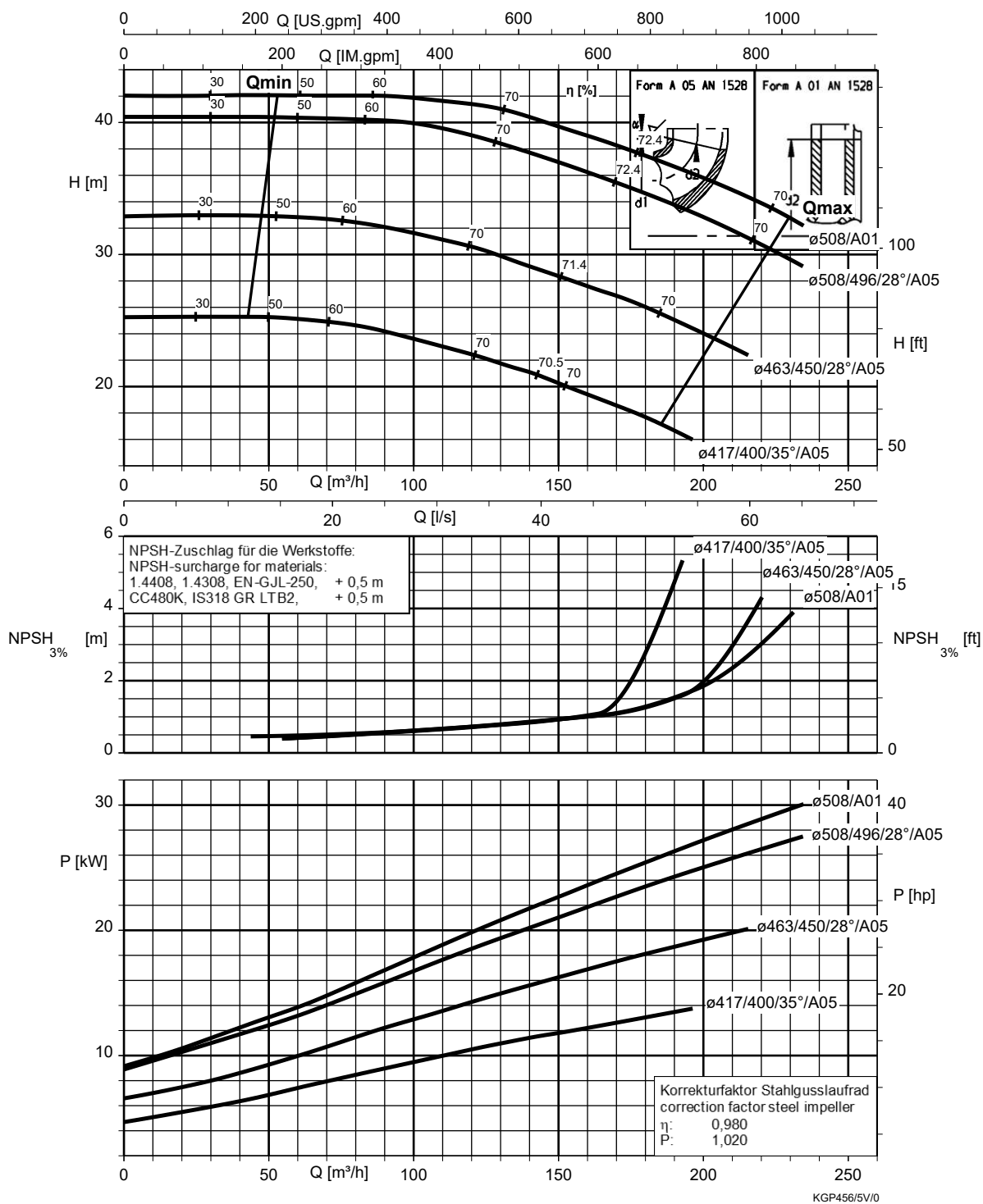
Etanorm 150-125-400,  $n = 960 \text{ min}^{-1}$

Etanorm SYT



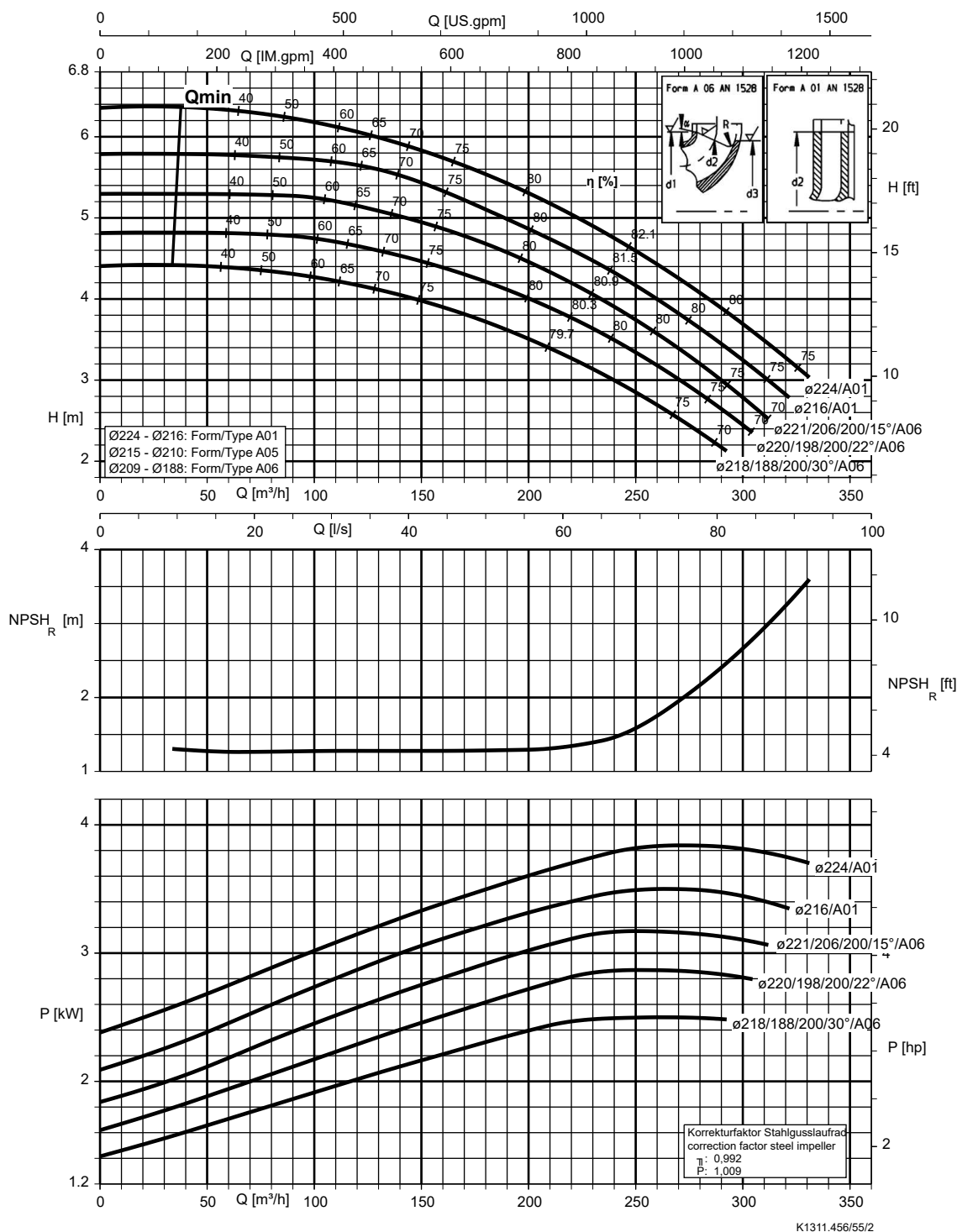
K1311.456/53/2

Etanorm 150-125-510,  $n = 960 \text{ min}^{-1}$



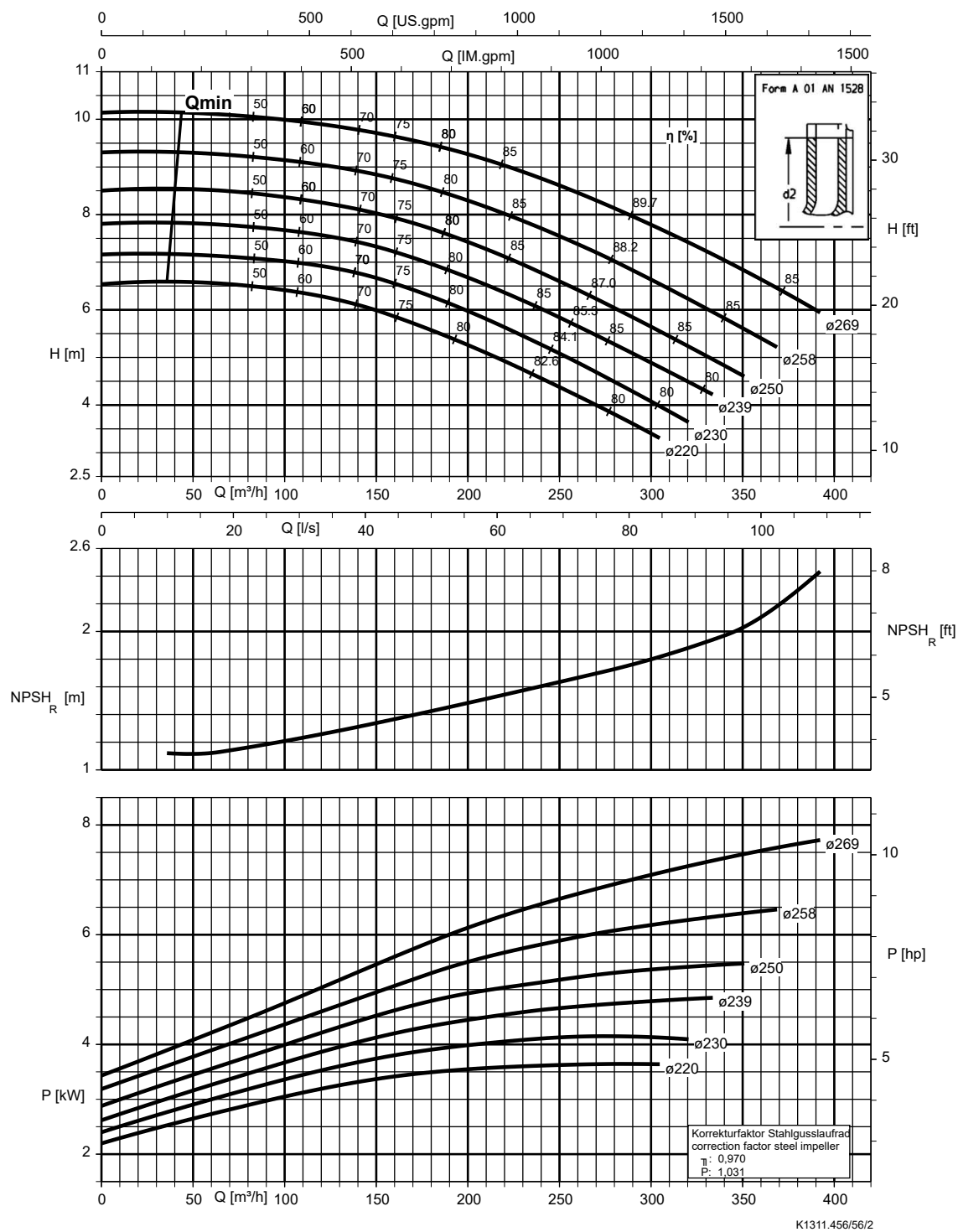
Etanorm 200-150-200,  $n = 960 \text{ min}^{-1}$

Etabloc



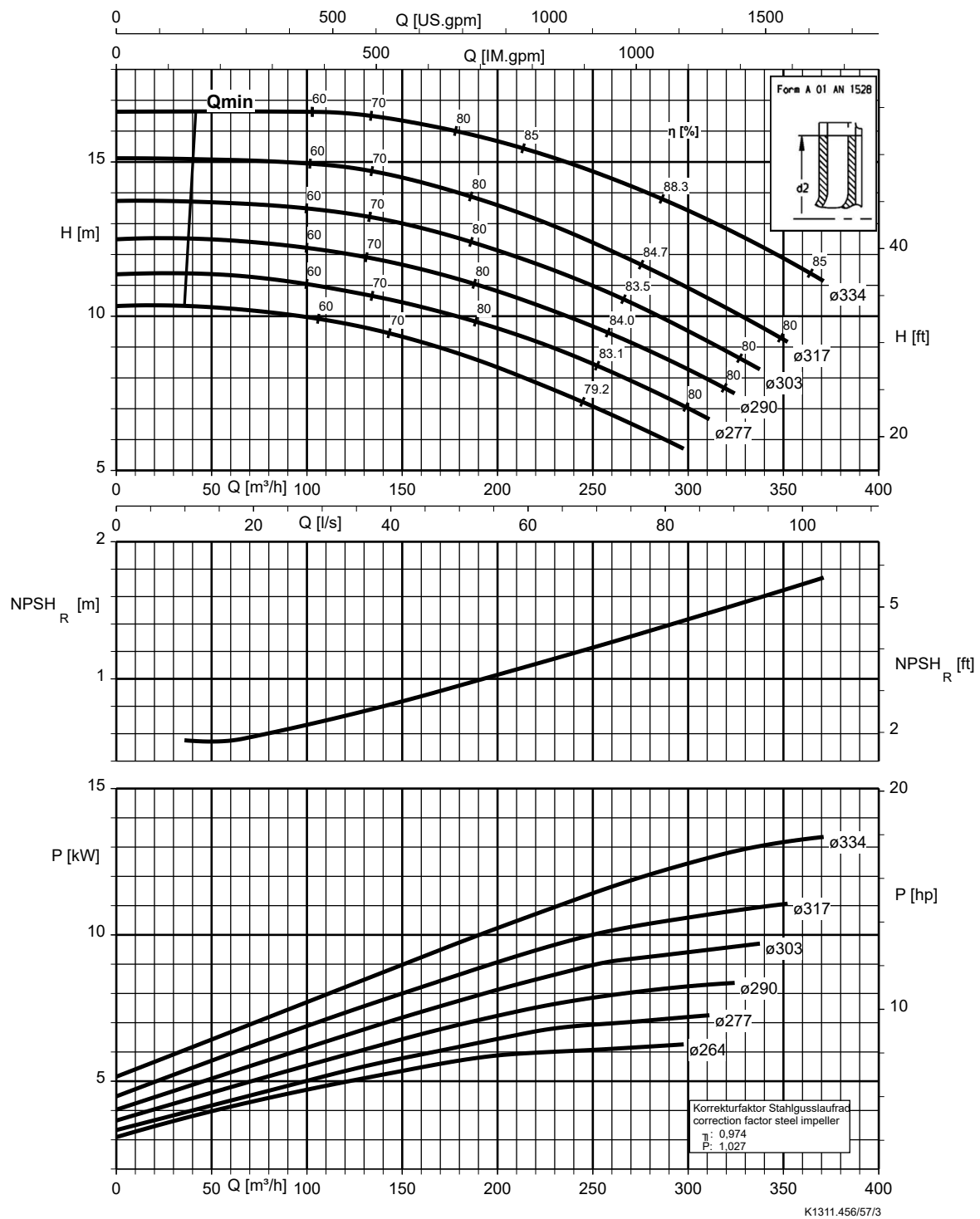
Etanorm 200-150-250,  $n = 960 \text{ min}^{-1}$

Etabloc



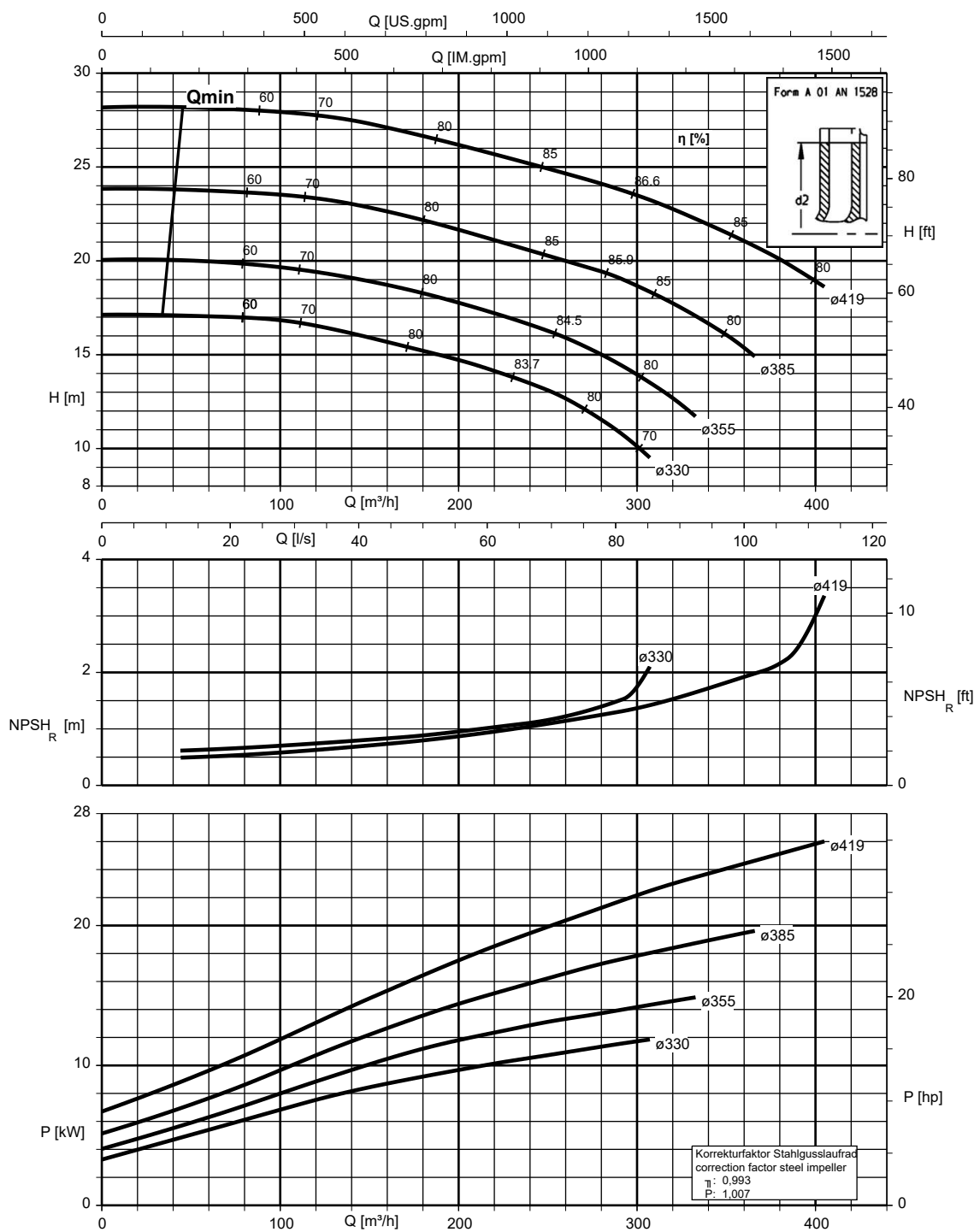
Etanorm 200-150-315,  $n = 960 \text{ min}^{-1}$

Etanorm SYT



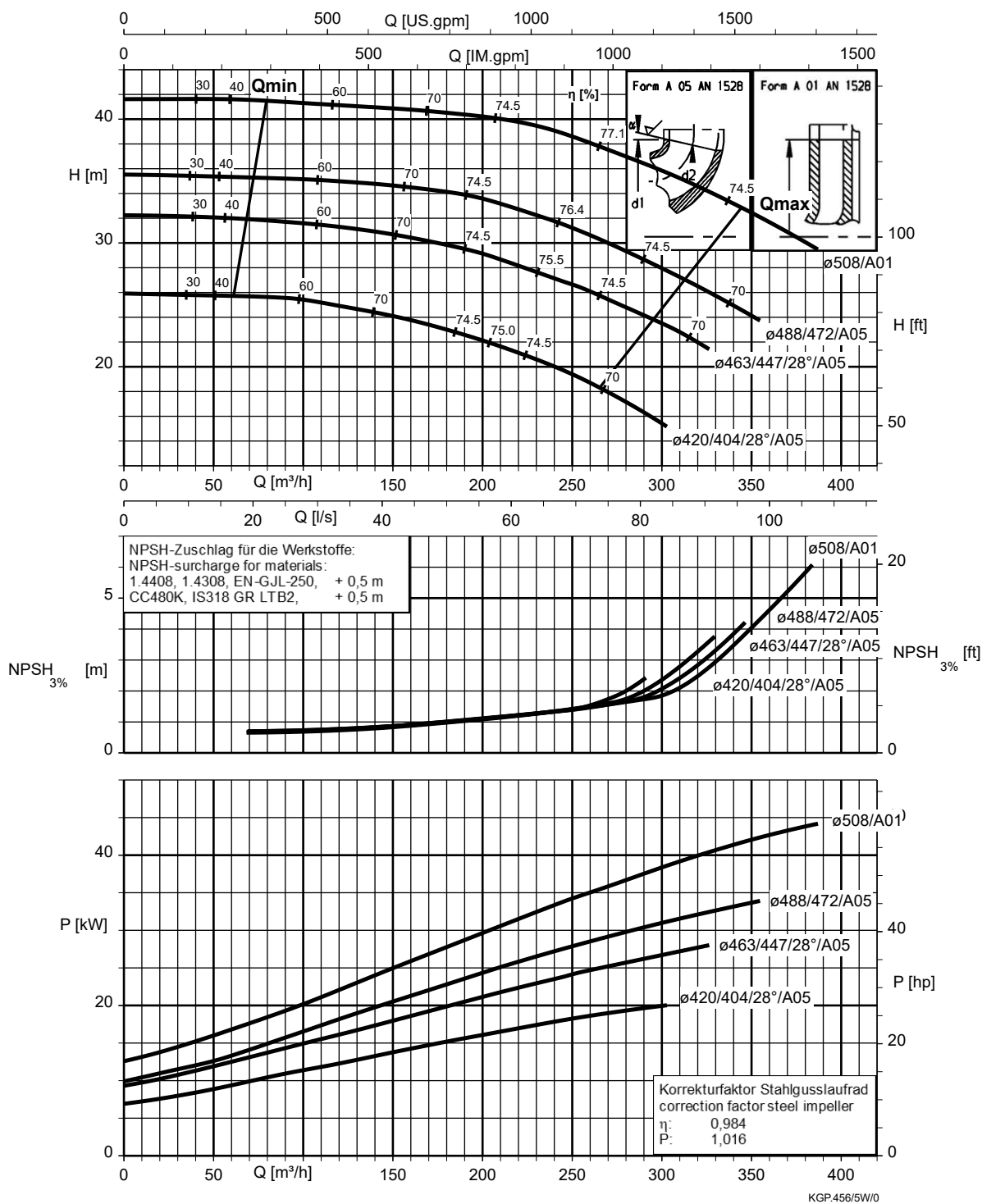
Etanorm 200-150-400,  $n = 960 \text{ min}^{-1}$

Etanorm SYT

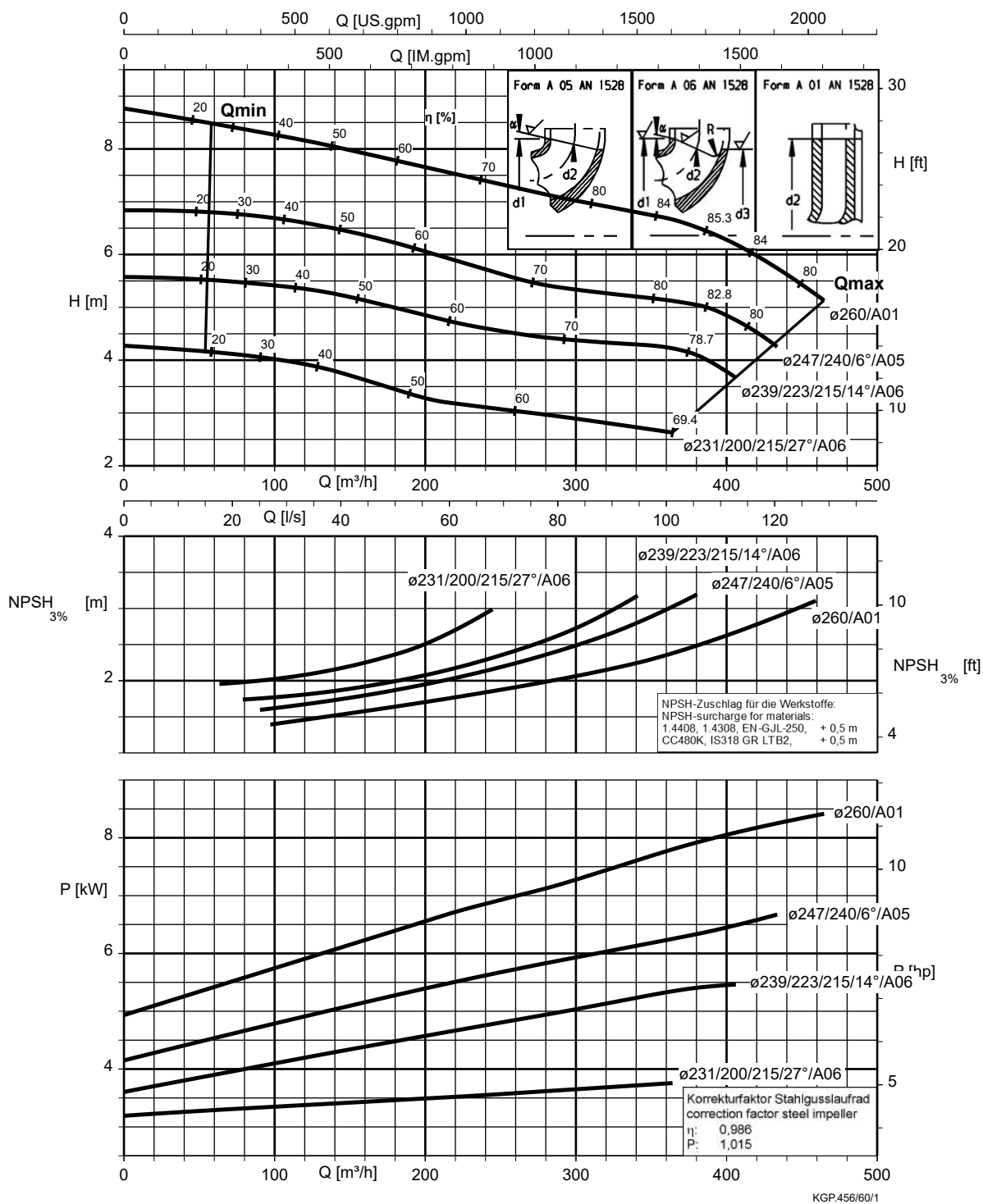


K1311.456/58/1

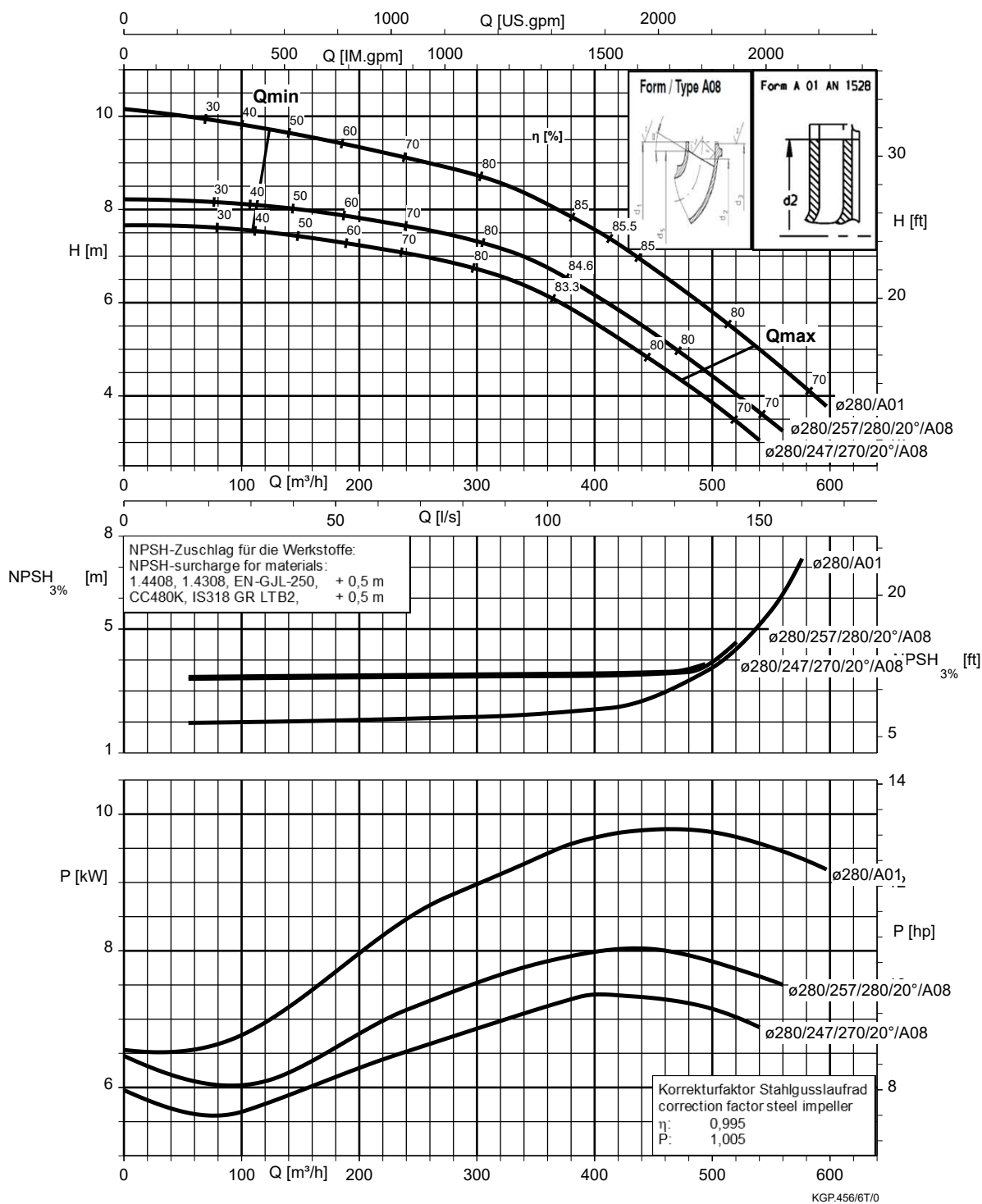
Etanorm 200-150-510,  $n = 960 \text{ min}^{-1}$



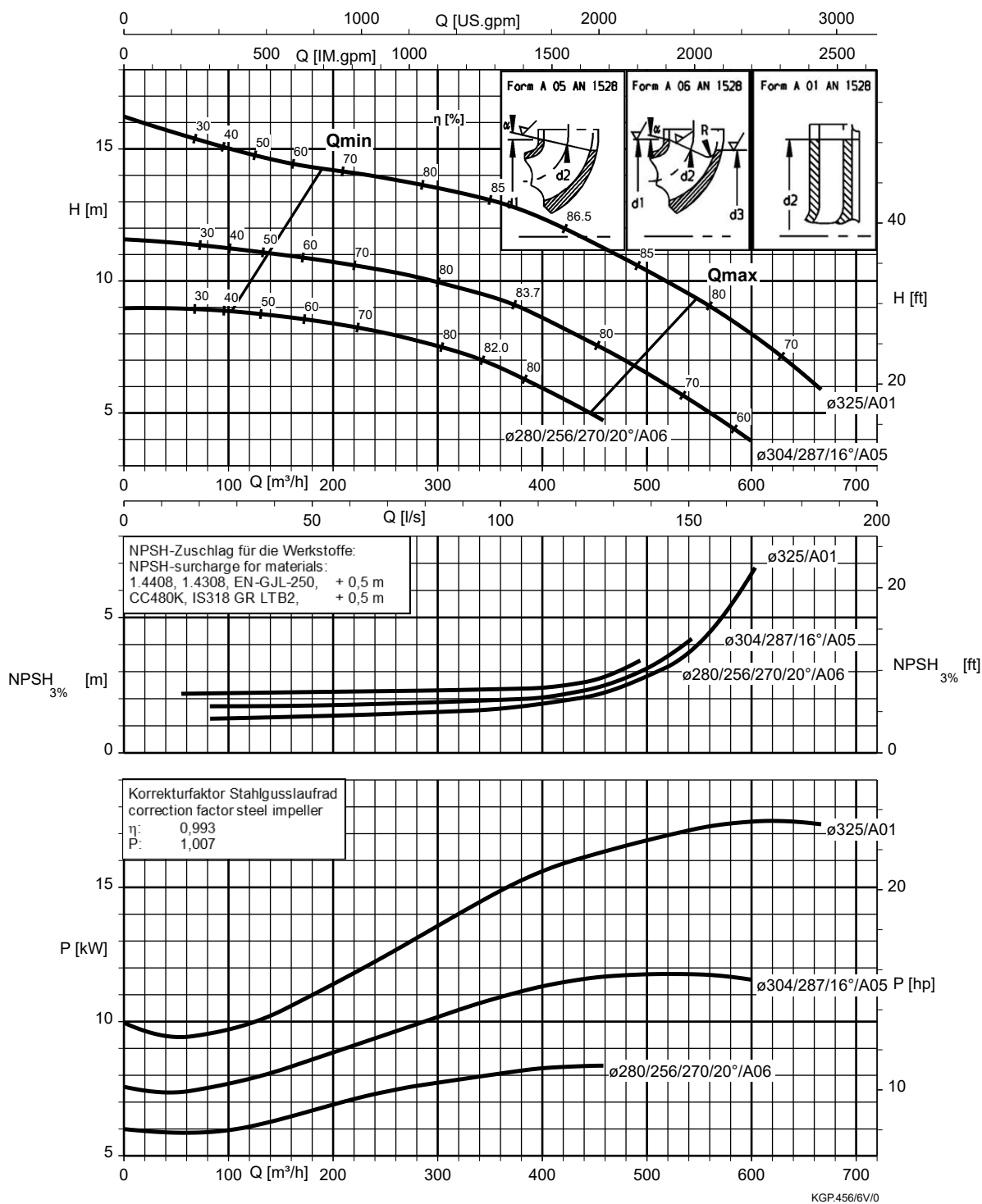
Etanorm 200-200-250,  $n = 960 \text{ min}^{-1}$



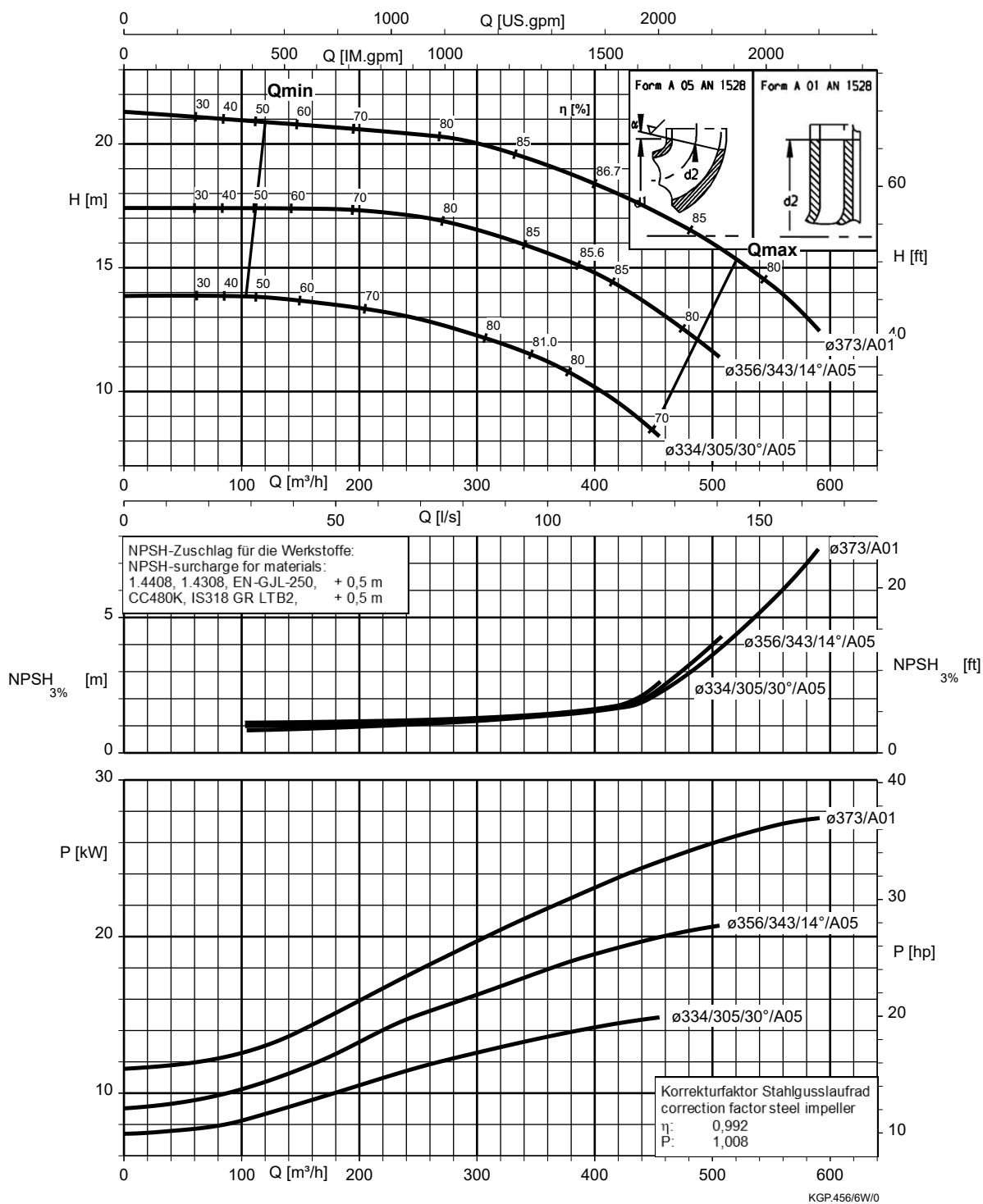
Etanorm 250-200-275,  $n = 960 \text{ min}^{-1}$



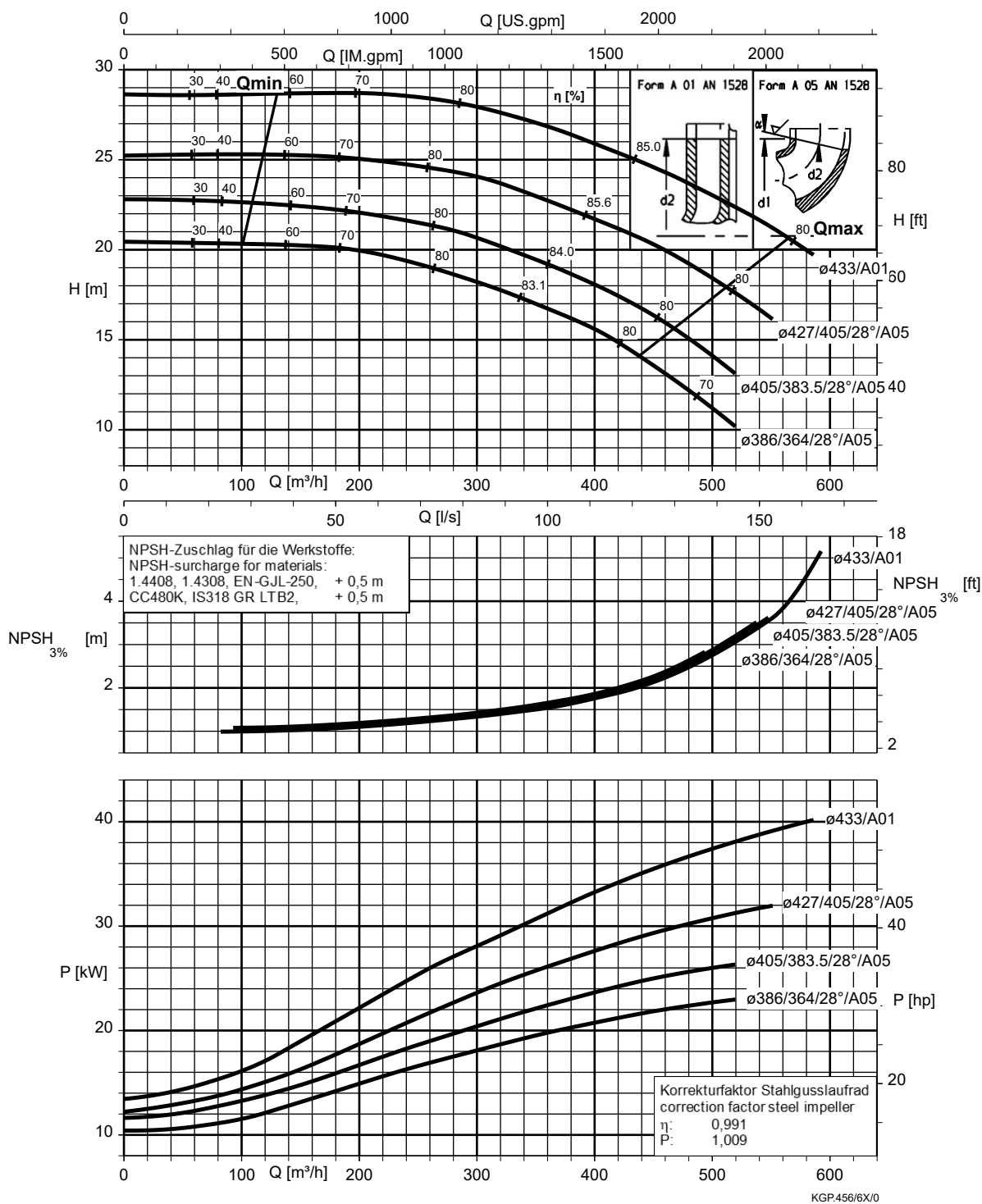
Etanorm 250-200-320,  $n = 960 \text{ min}^{-1}$



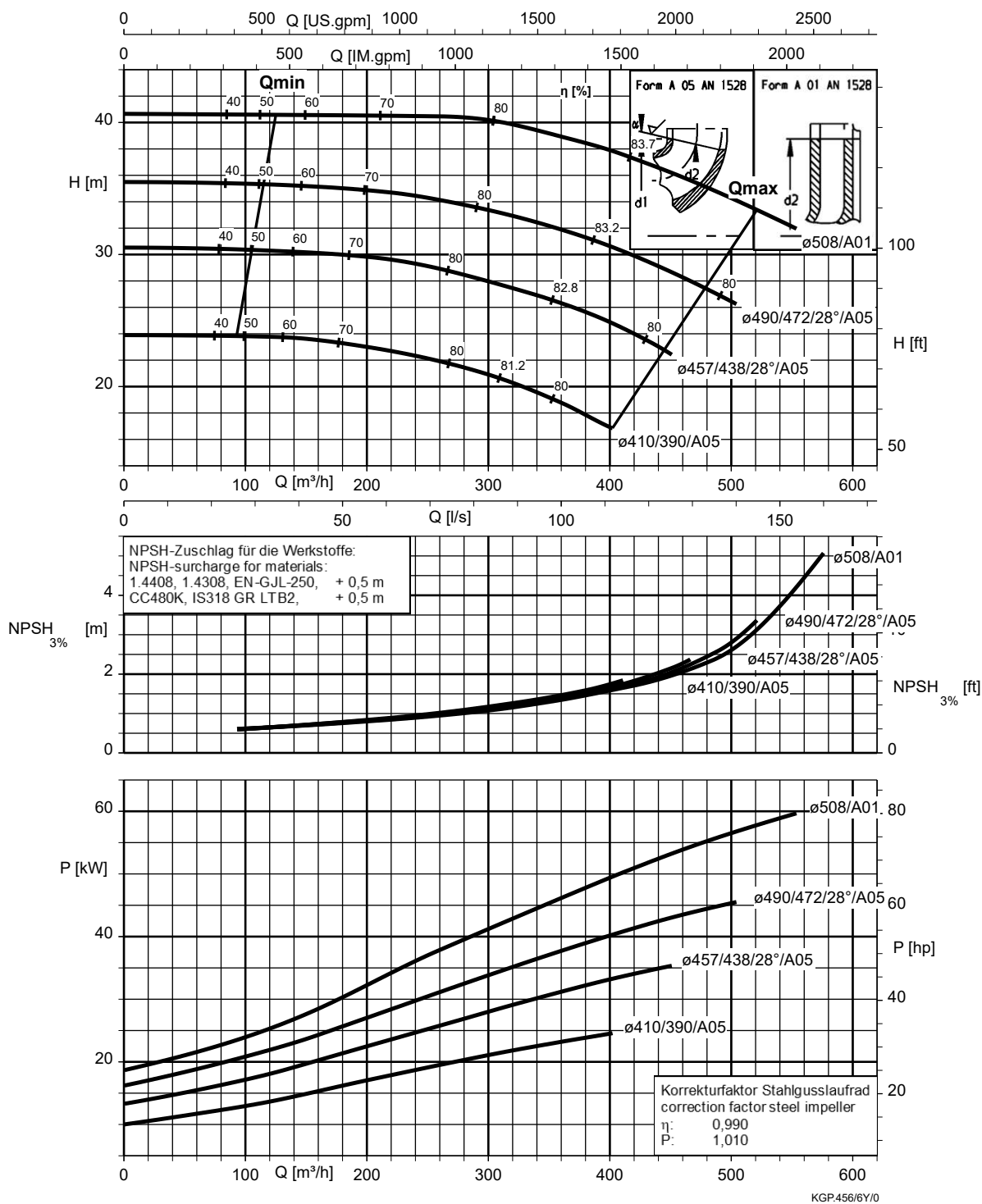
Etanorm 250-200-375,  $n = 960 \text{ min}^{-1}$



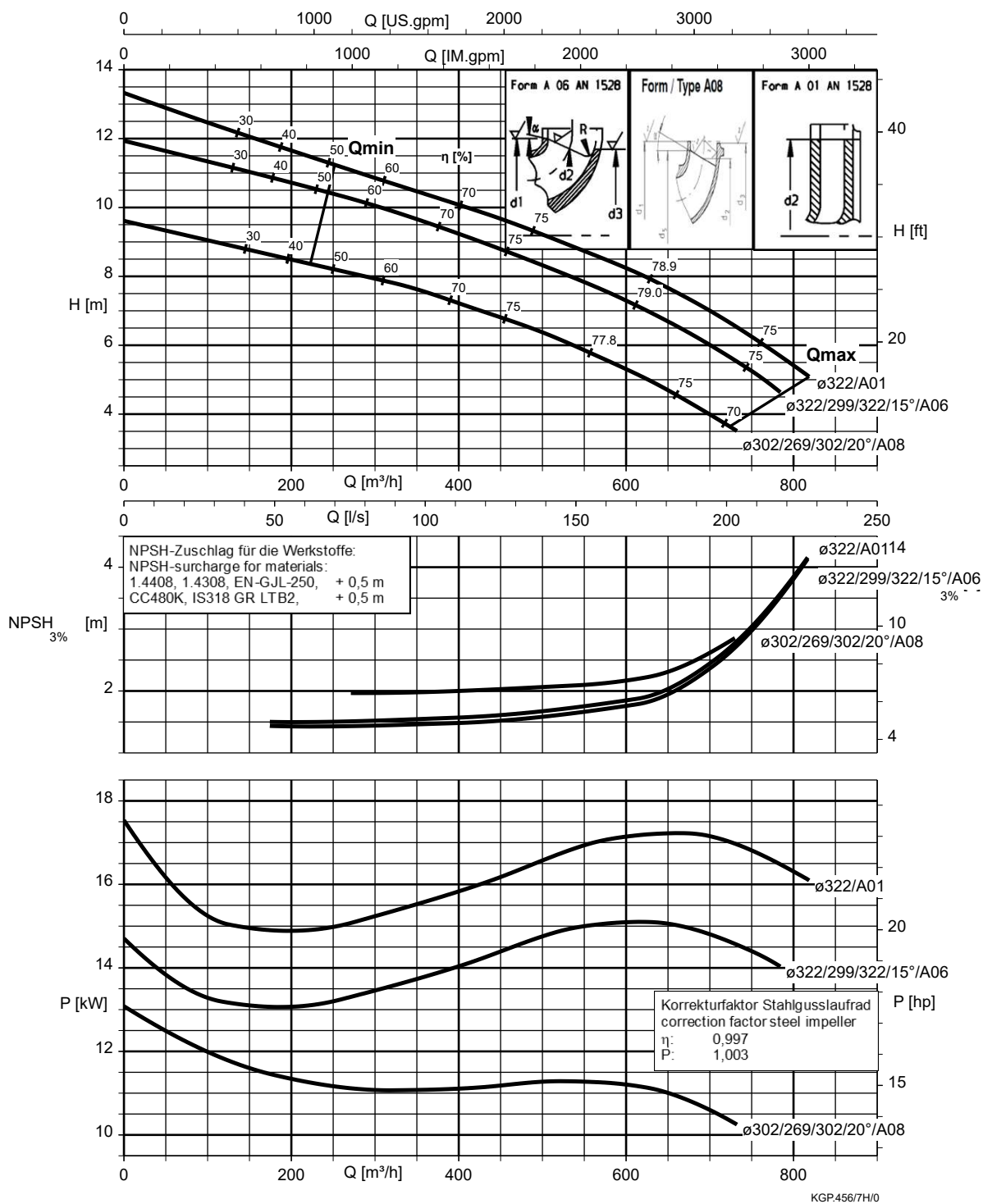
Etanorm 250-200-435,  $n = 960 \text{ min}^{-1}$



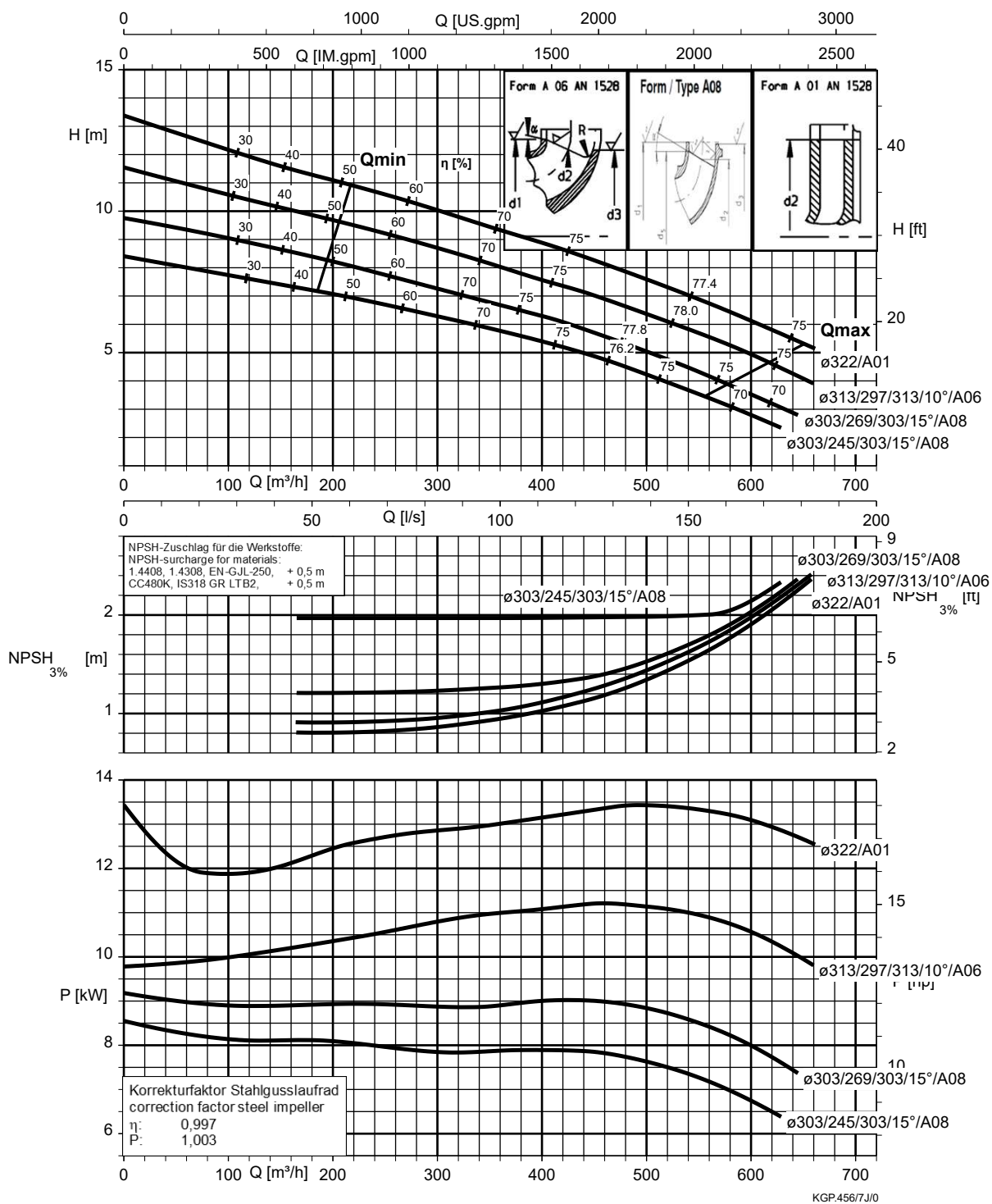
Etanorm 250-200-510 , n = 960 min<sup>-1</sup>



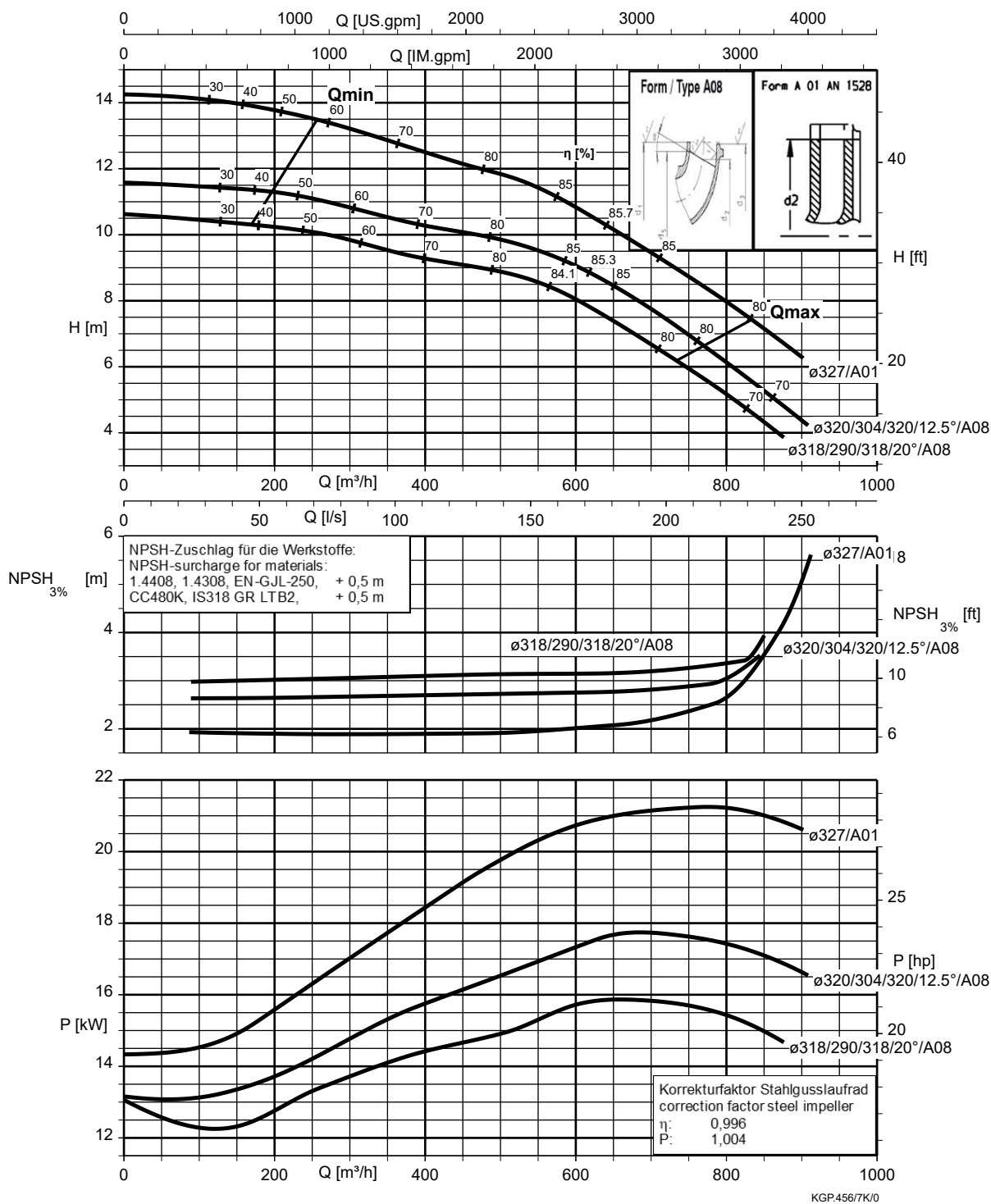
Etanorm 300-250-295,  $n = 960 \text{ min}^{-1}$



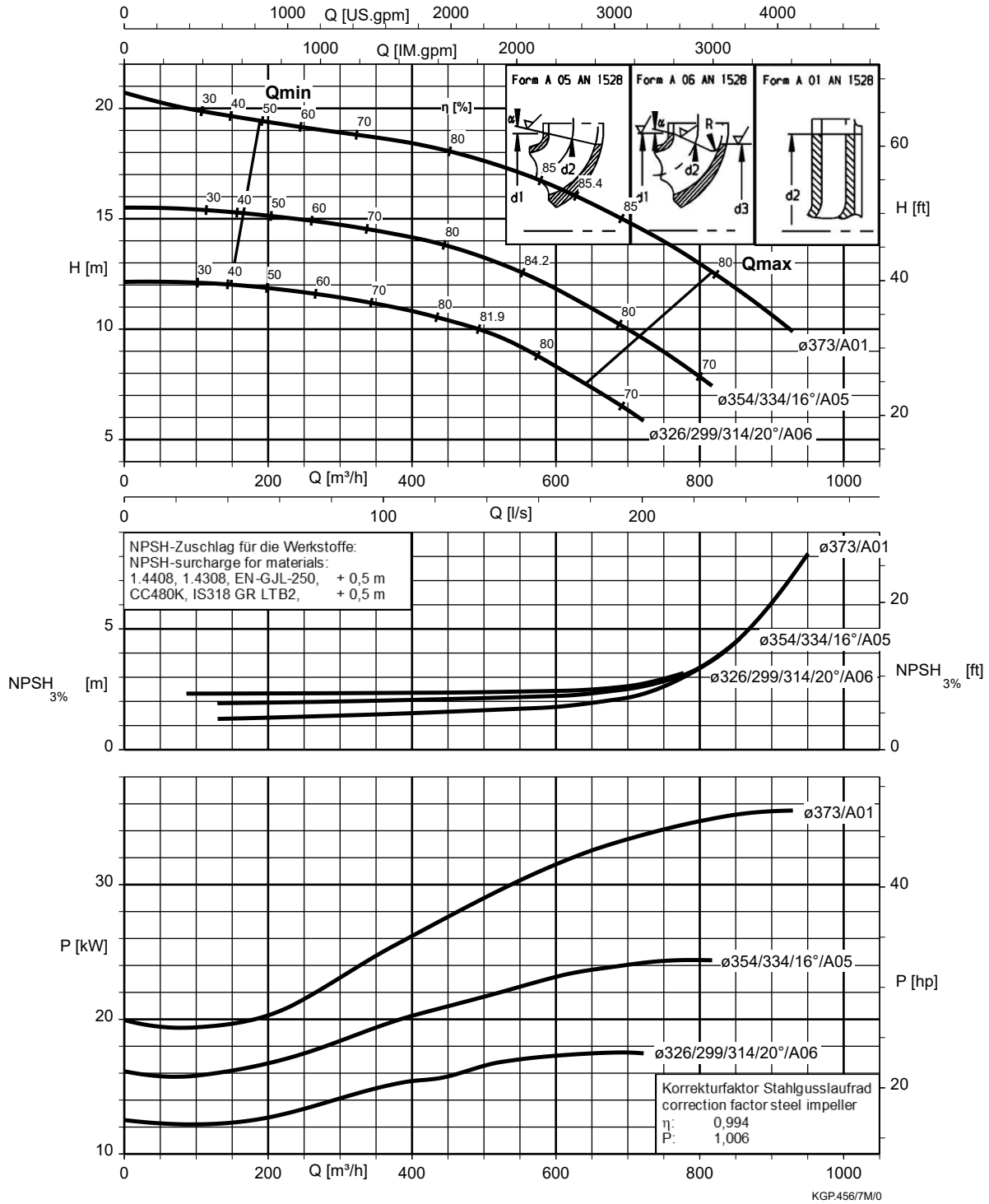
Etanorm 300-250-295.1,  $n = 960 \text{ min}^{-1}$



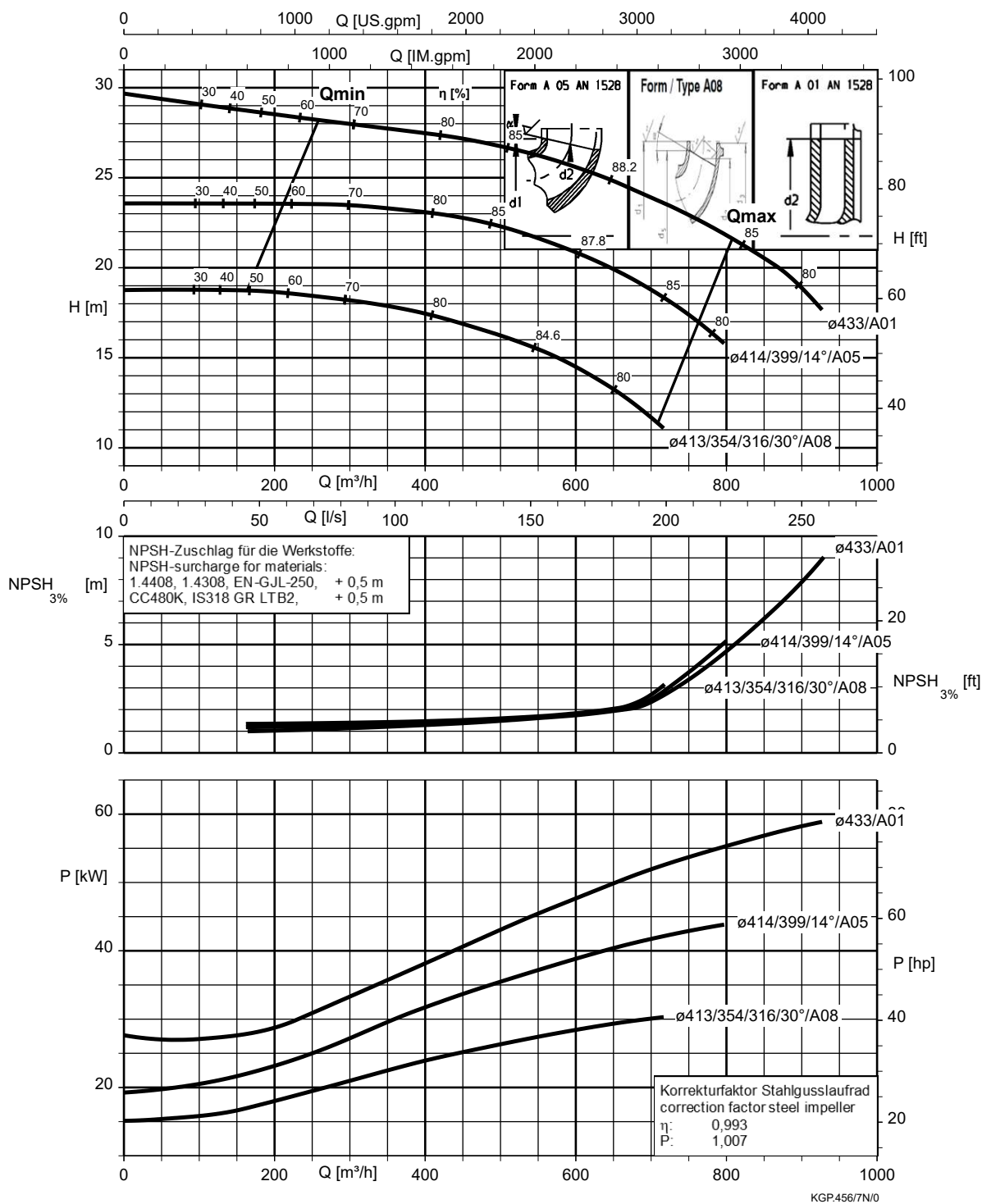
Etanorm 300-250-320 ,  $n = 960 \text{ min}^{-1}$



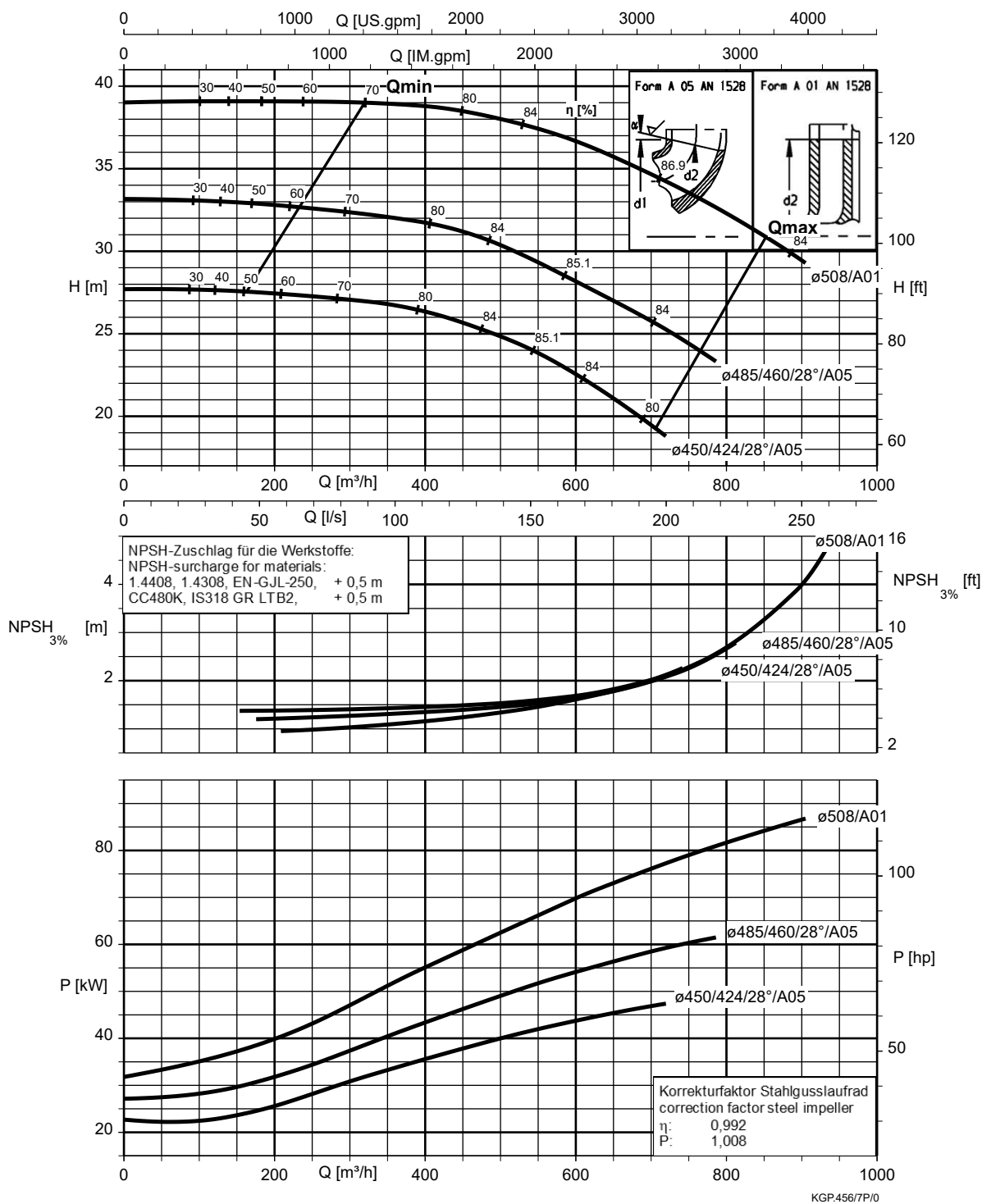
Etanorm 300-250-375,  $n = 960 \text{ min}^{-1}$



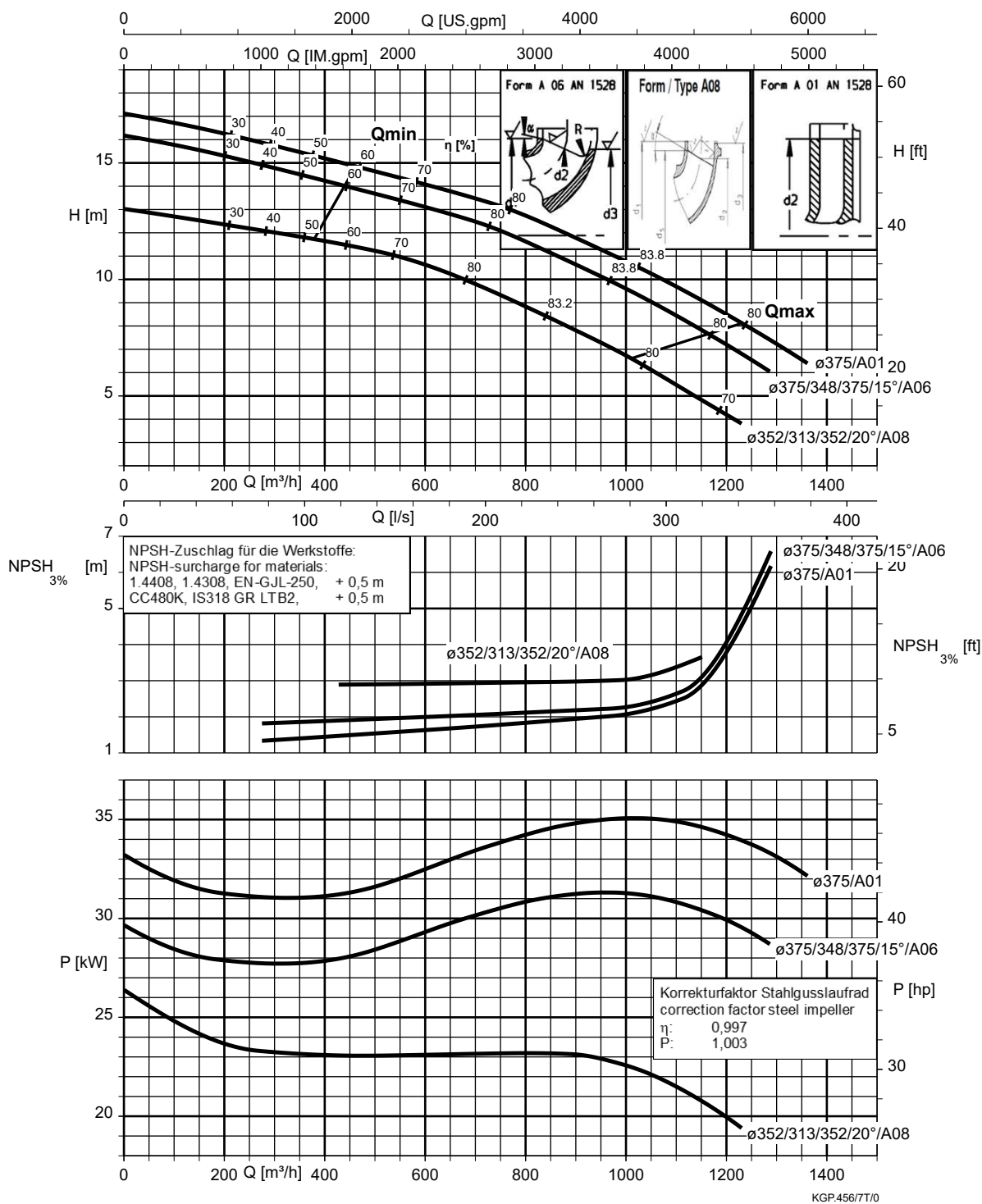
Etanorm 300-250-435,  $n = 960 \text{ min}^{-1}$



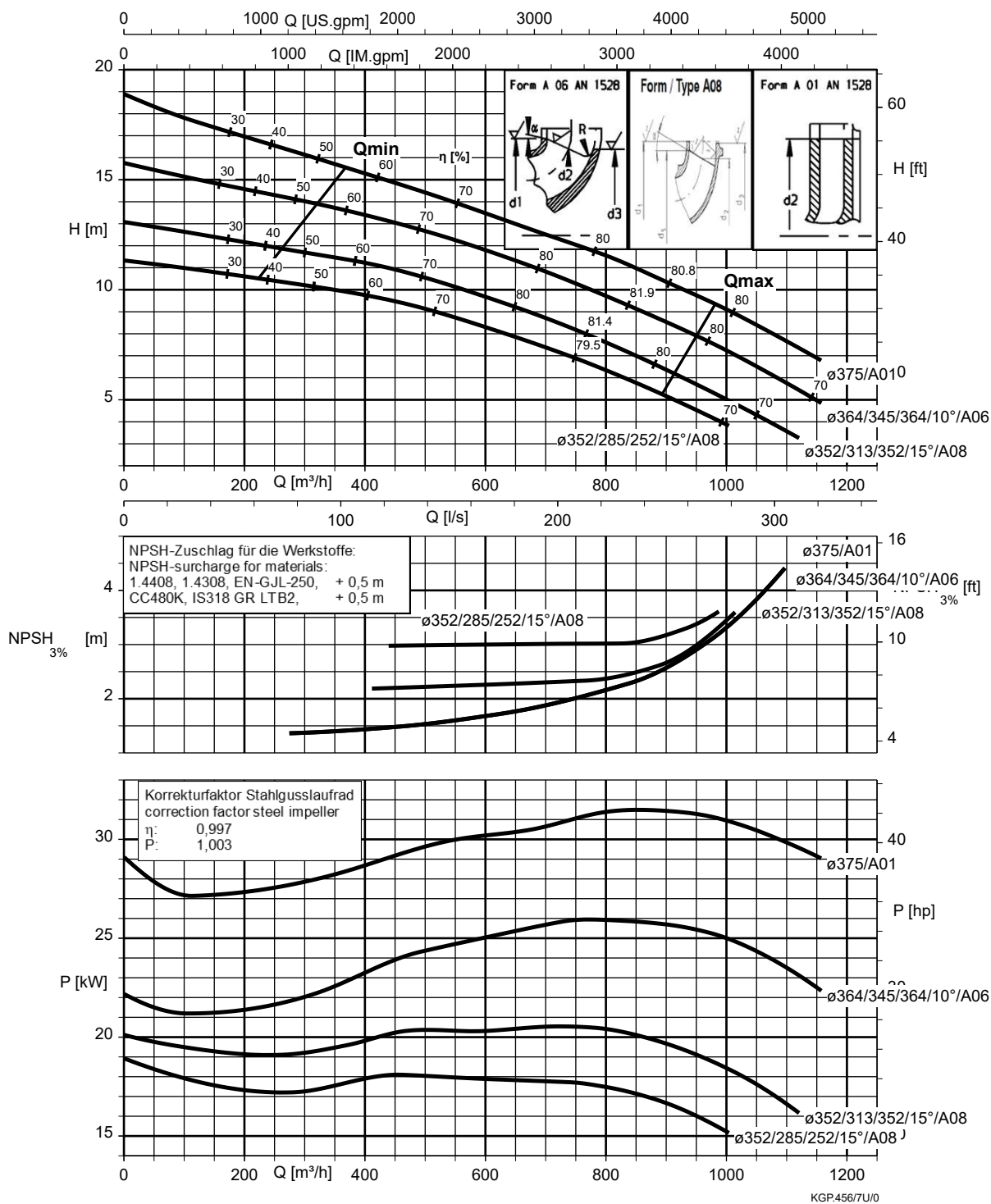
Etanorm 300-250-510,  $n = 960 \text{ min}^{-1}$



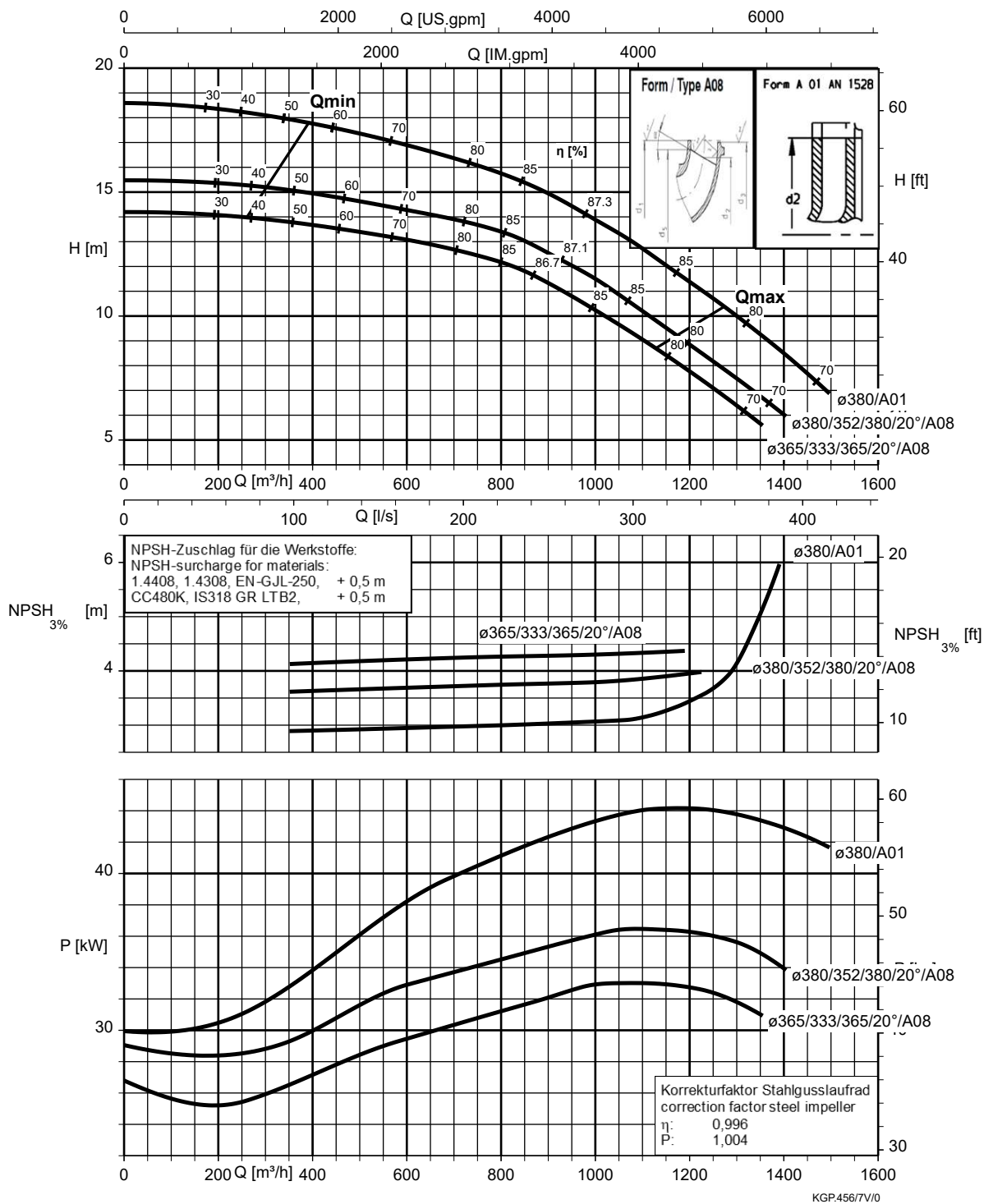
Etanorm 350-300-350,  $n = 960 \text{ min}^{-1}$



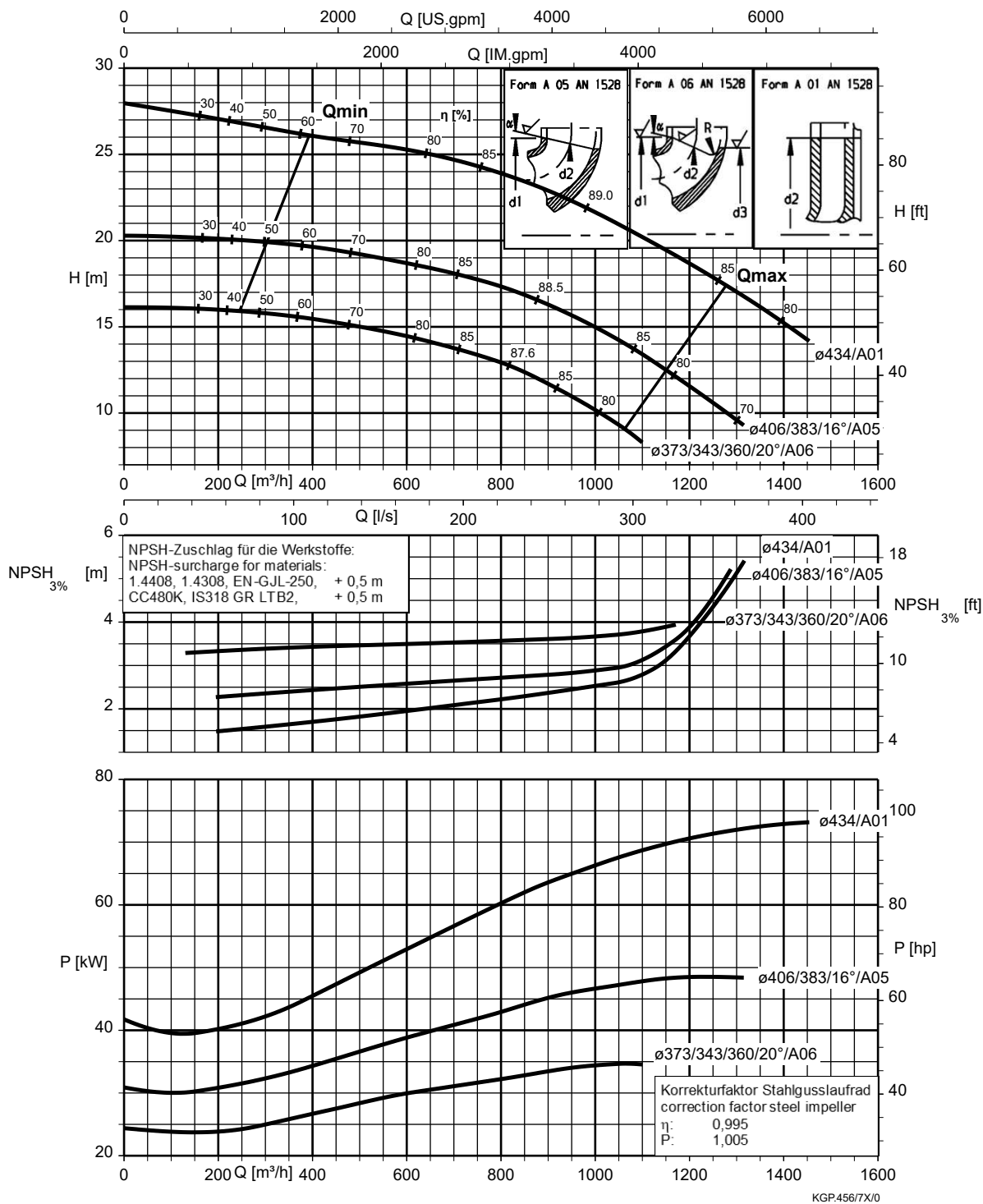
Etanorm 350-300-350.1,  $n = 960 \text{ min}^{-1}$



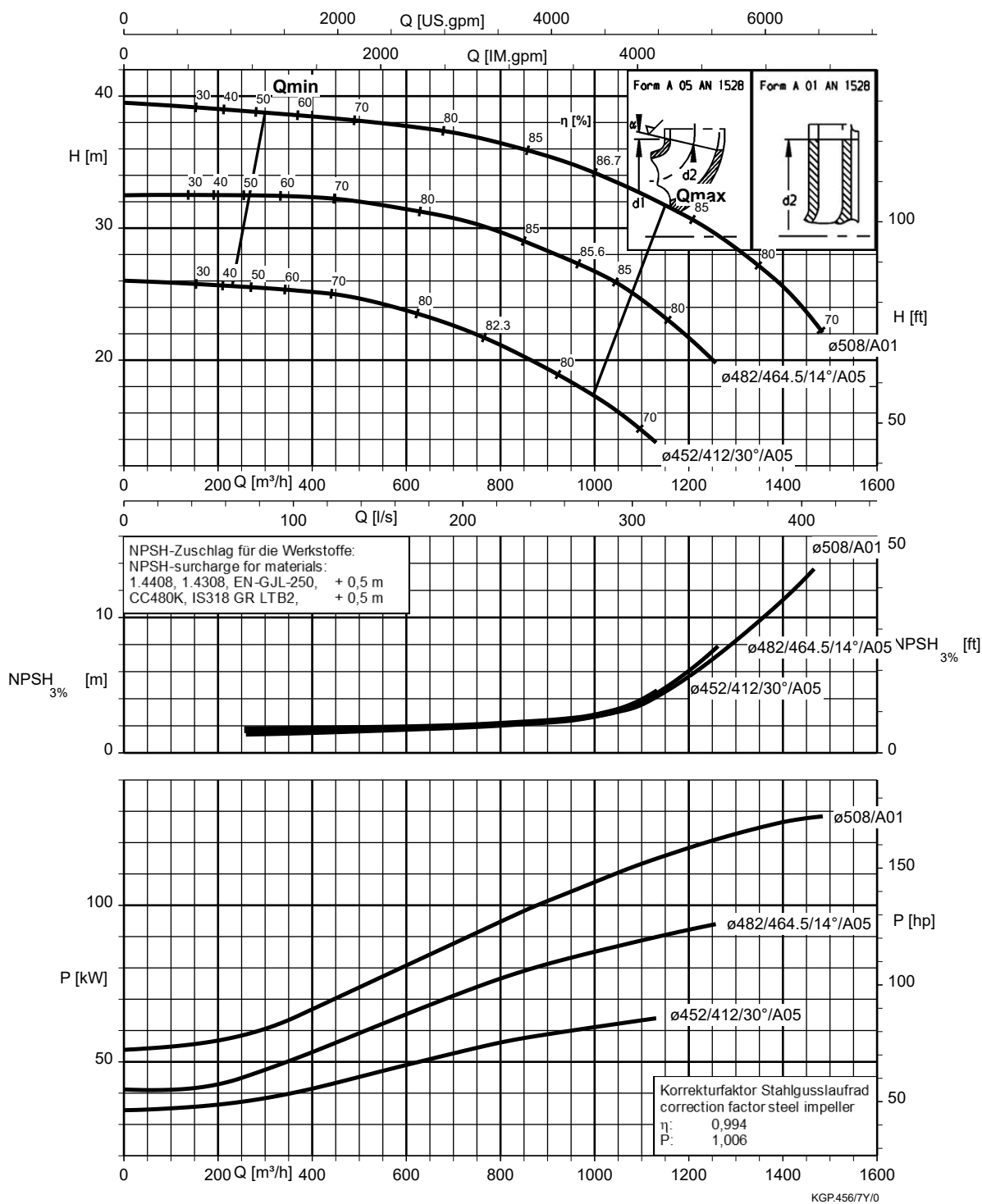
Etanorm 350-300-375,  $n = 960 \text{ min}^{-1}$



Etanorm 350-300-435,  $n = 960 \text{ min}^{-1}$



Etanorm 350-300-510 ,  $n = 960 \text{ min}^{-1}$



Etanorm-R 125-500.2,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

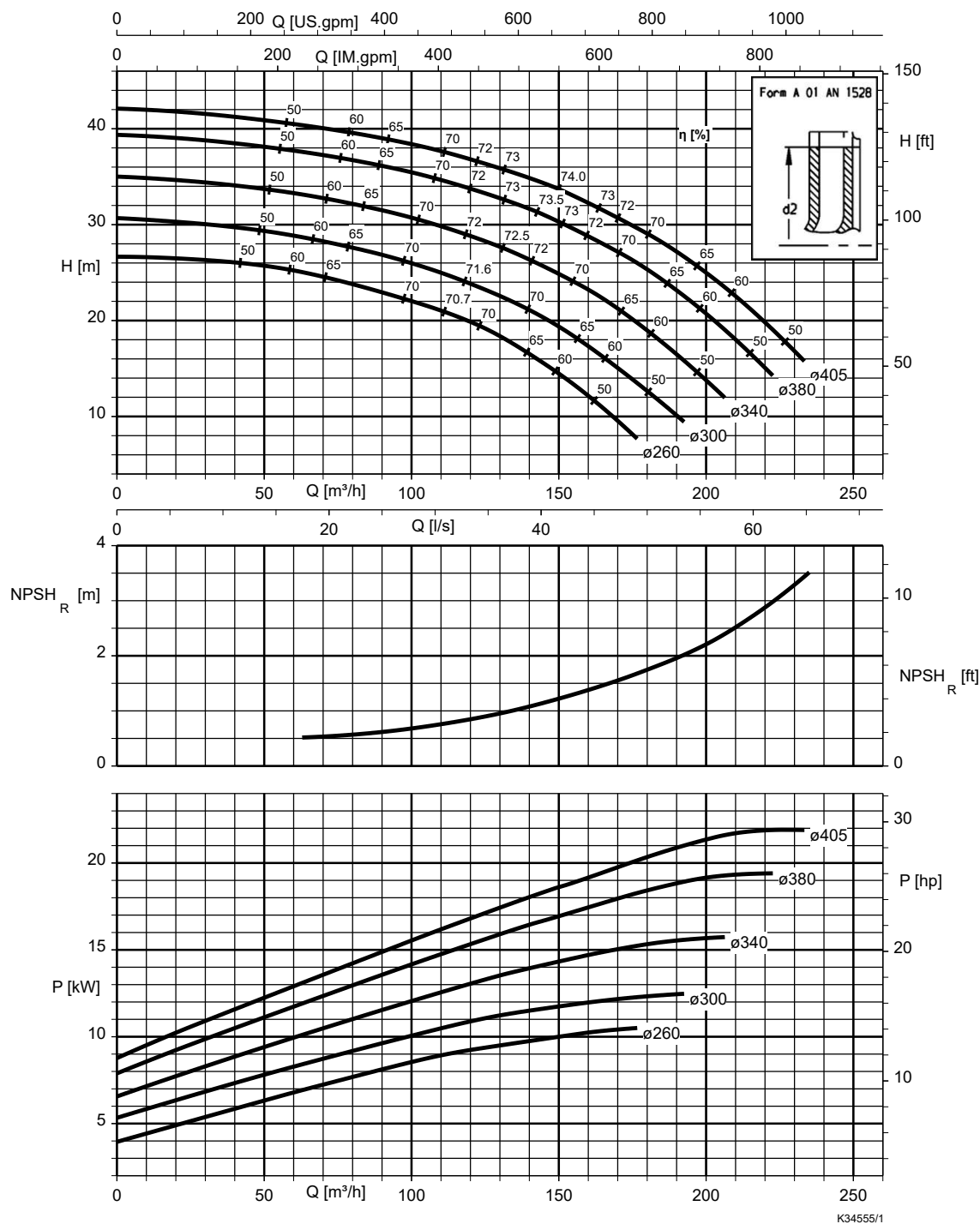


Tabelle 15: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 150-500.1,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

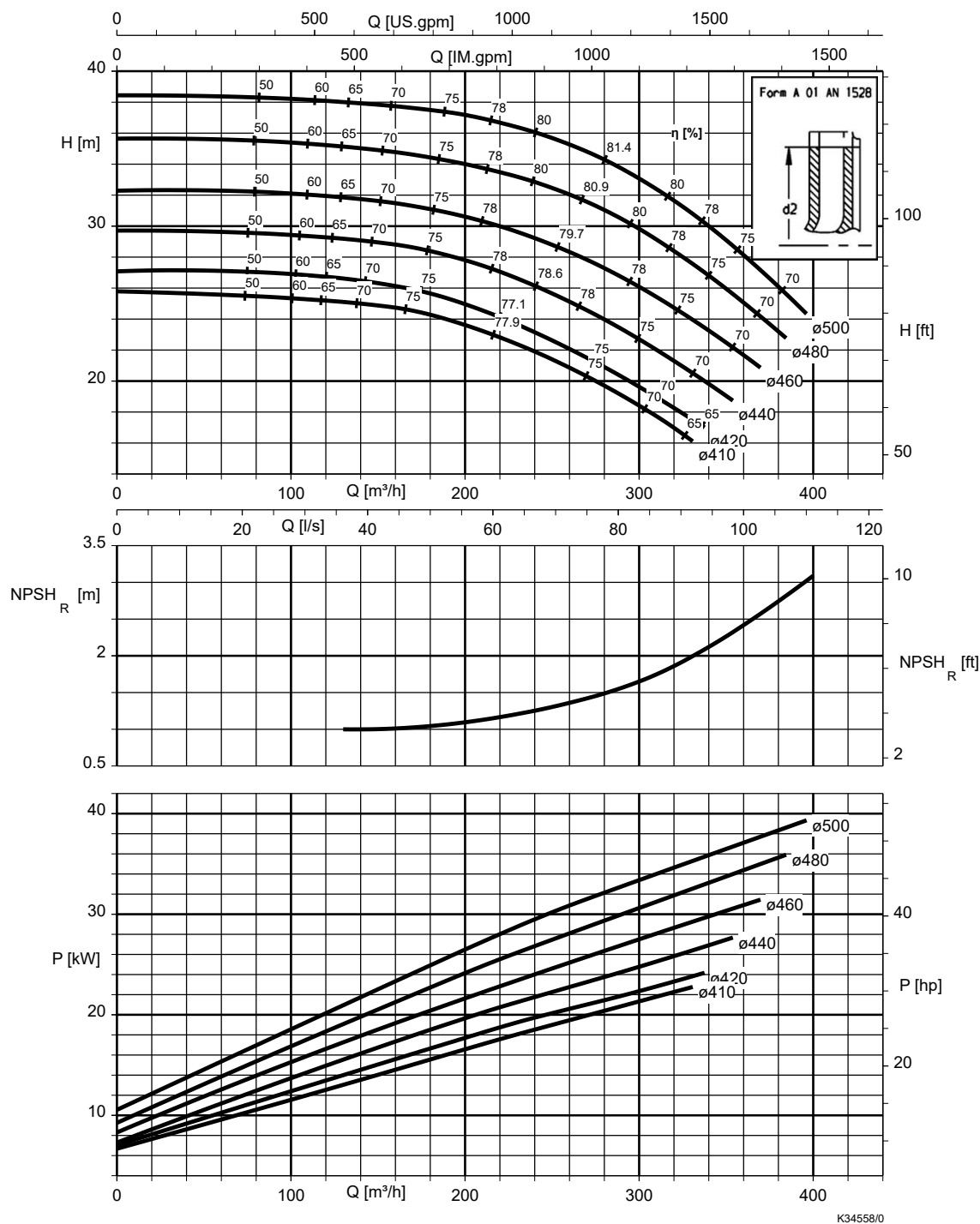


Tabelle 16: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 200-250, n = 960 min<sup>-1</sup>

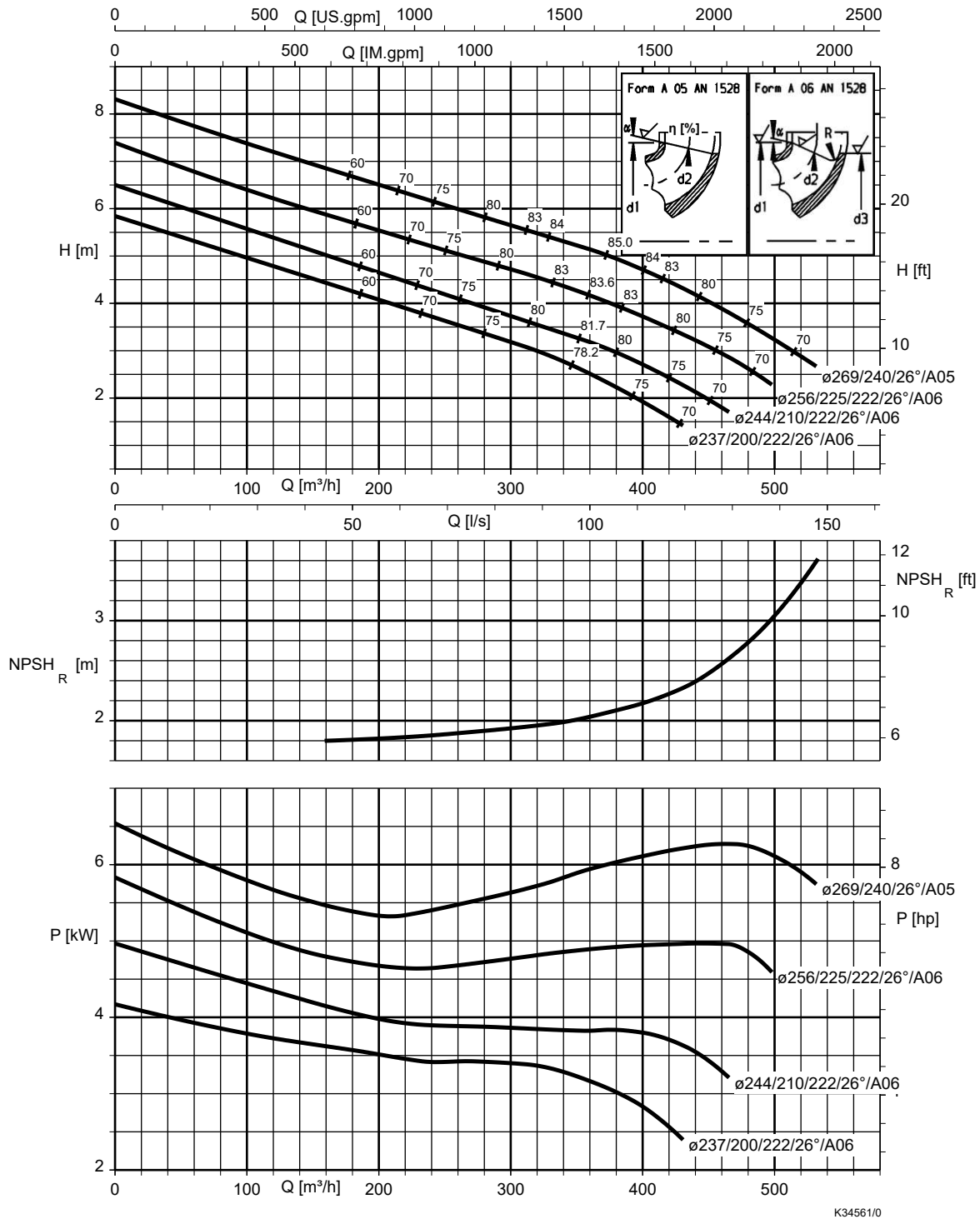


Tabelle 17: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                                              |
|---------------|---------------------|-------------------------------------------------------------------------|
| EN-GJL-250    | 0,5                 | $\text{NPSH}_{\text{Anlage}} \geq \text{NPSH} + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                                         |
| 1.4408        | 0,5                 |                                                                         |

Etanorm-R 200-260,  $n = 960 \text{ min}^{-1}$

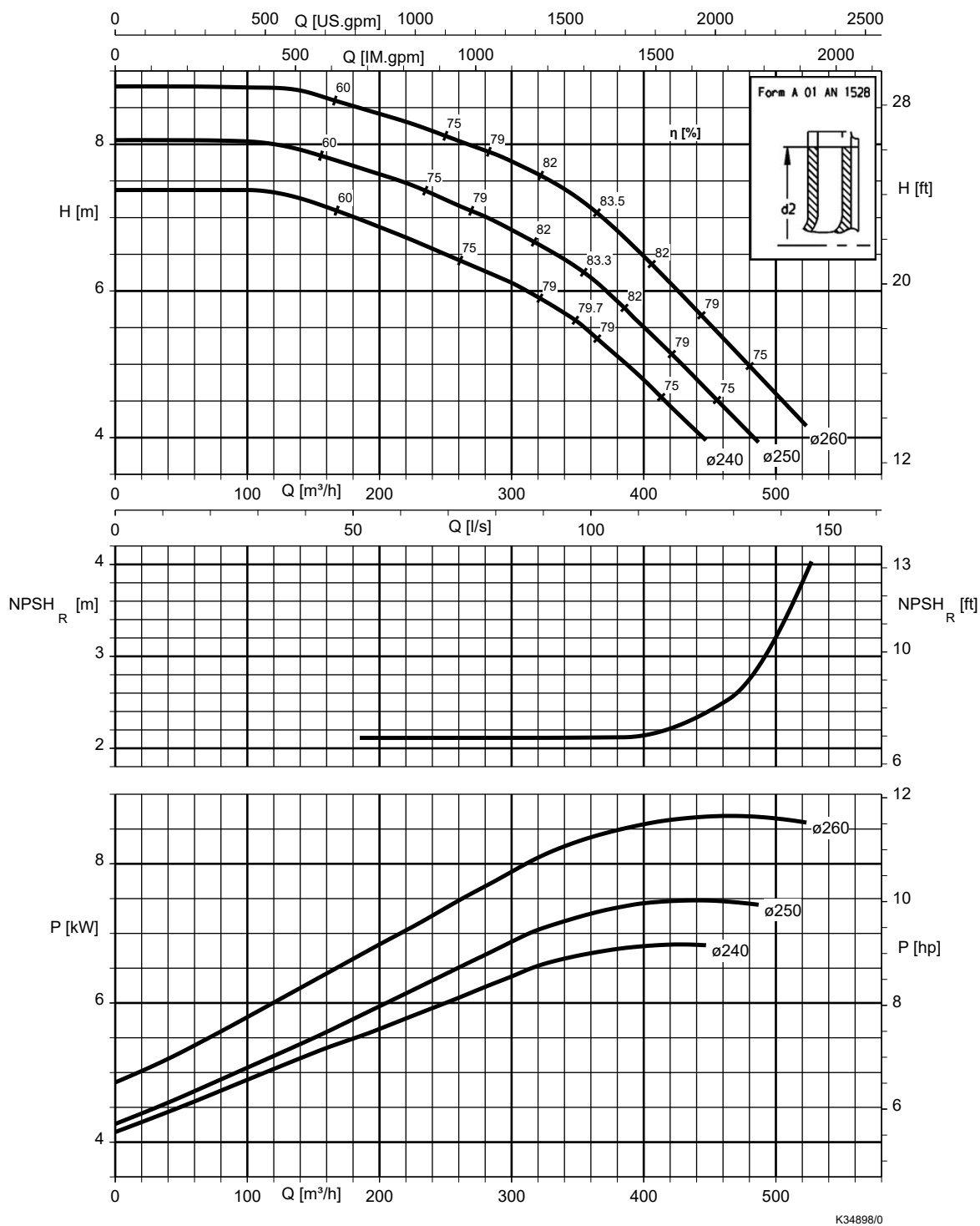


Tabelle 18: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                                              |
|---------------|---------------------|-------------------------------------------------------------------------|
| EN-GJL-250    | 0,5                 | $\text{NPSH}_{\text{Anlage}} \geq \text{NPSH} + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                                         |
| 1.4408        | 0,5                 |                                                                         |

Etanorm-R 200-330,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

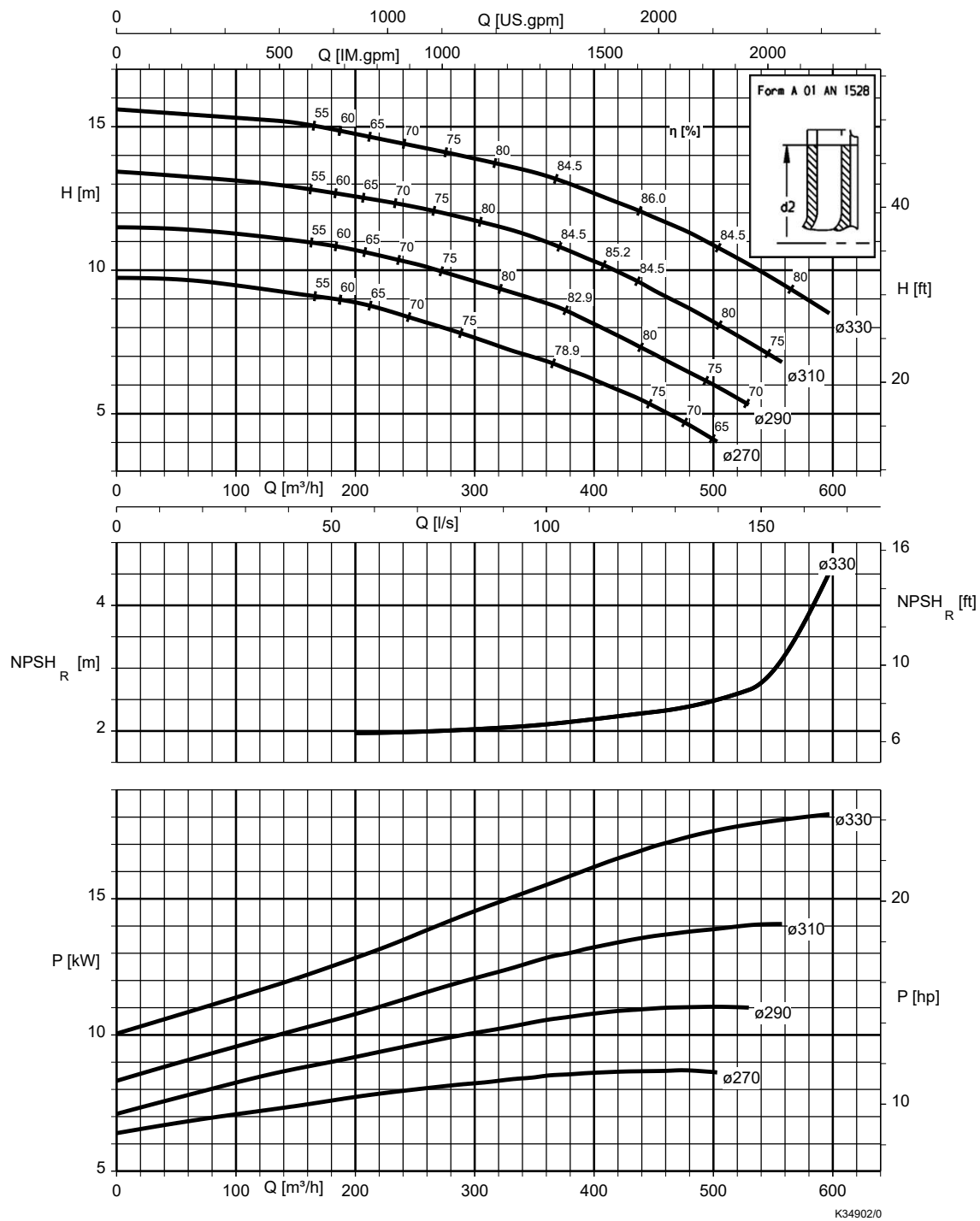


Tabelle 19: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 200-400,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

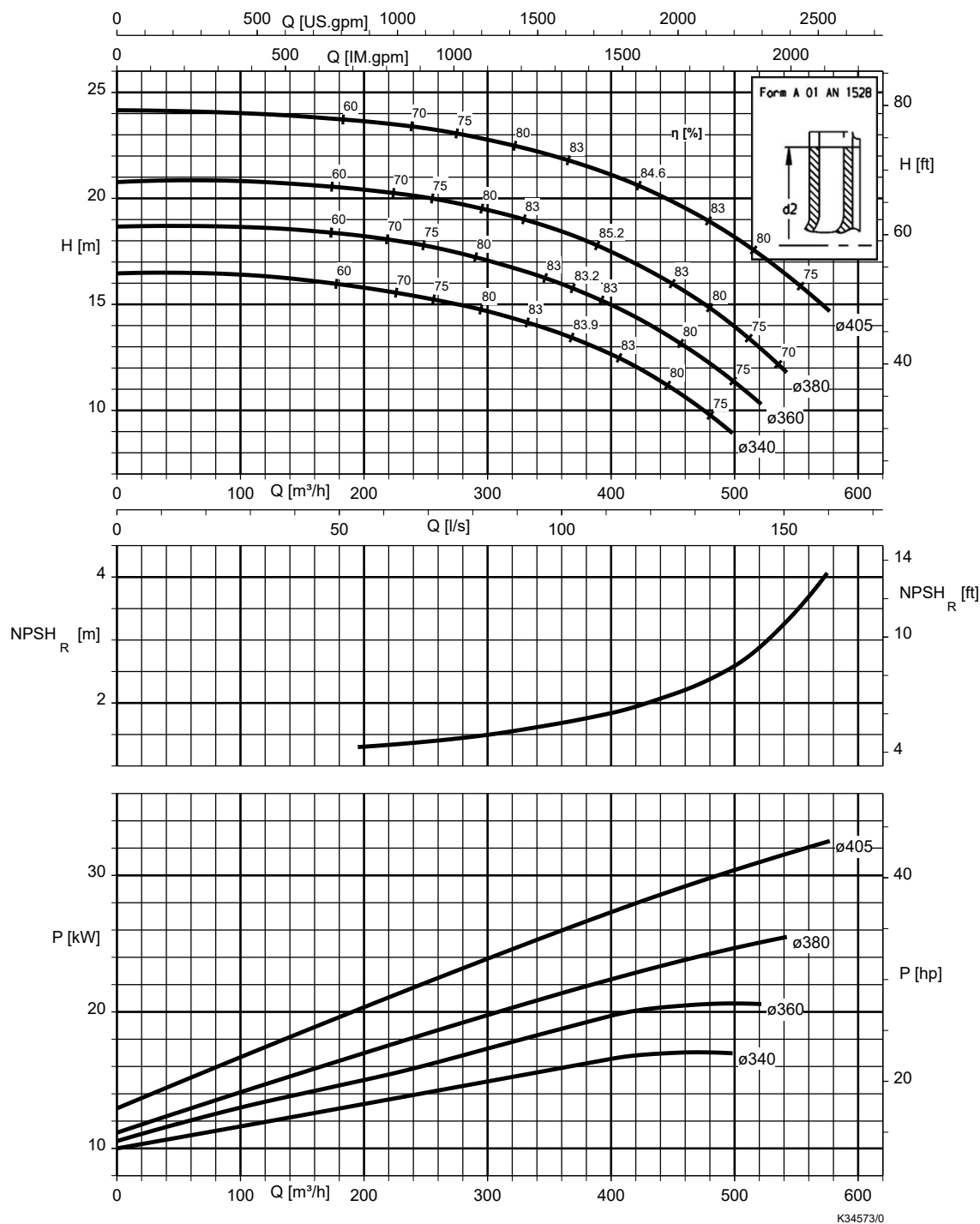


Tabelle 20: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 200-500, n = 960 min<sup>-1</sup>

Etanorm-RSY

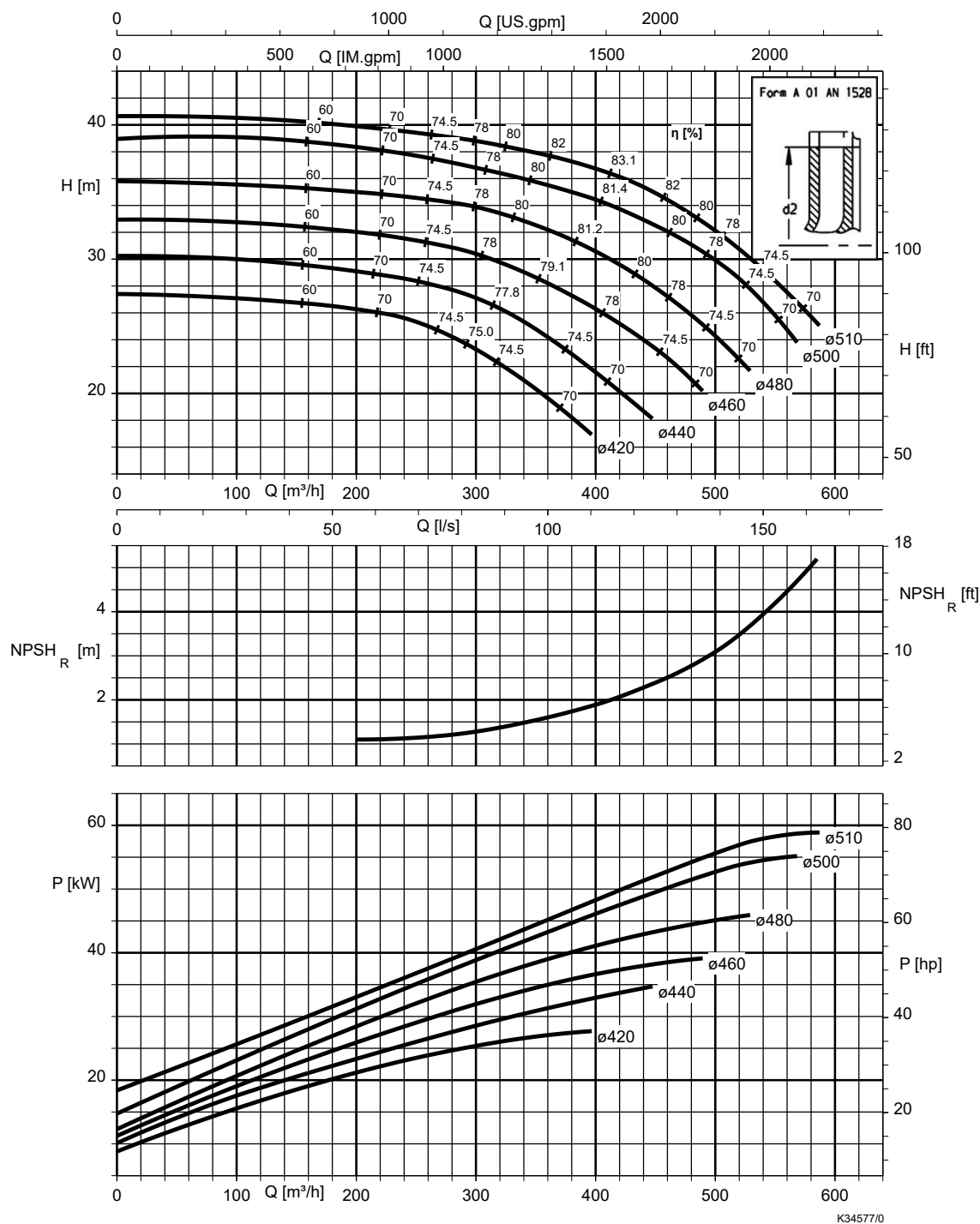


Tabelle 21: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 250-300,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

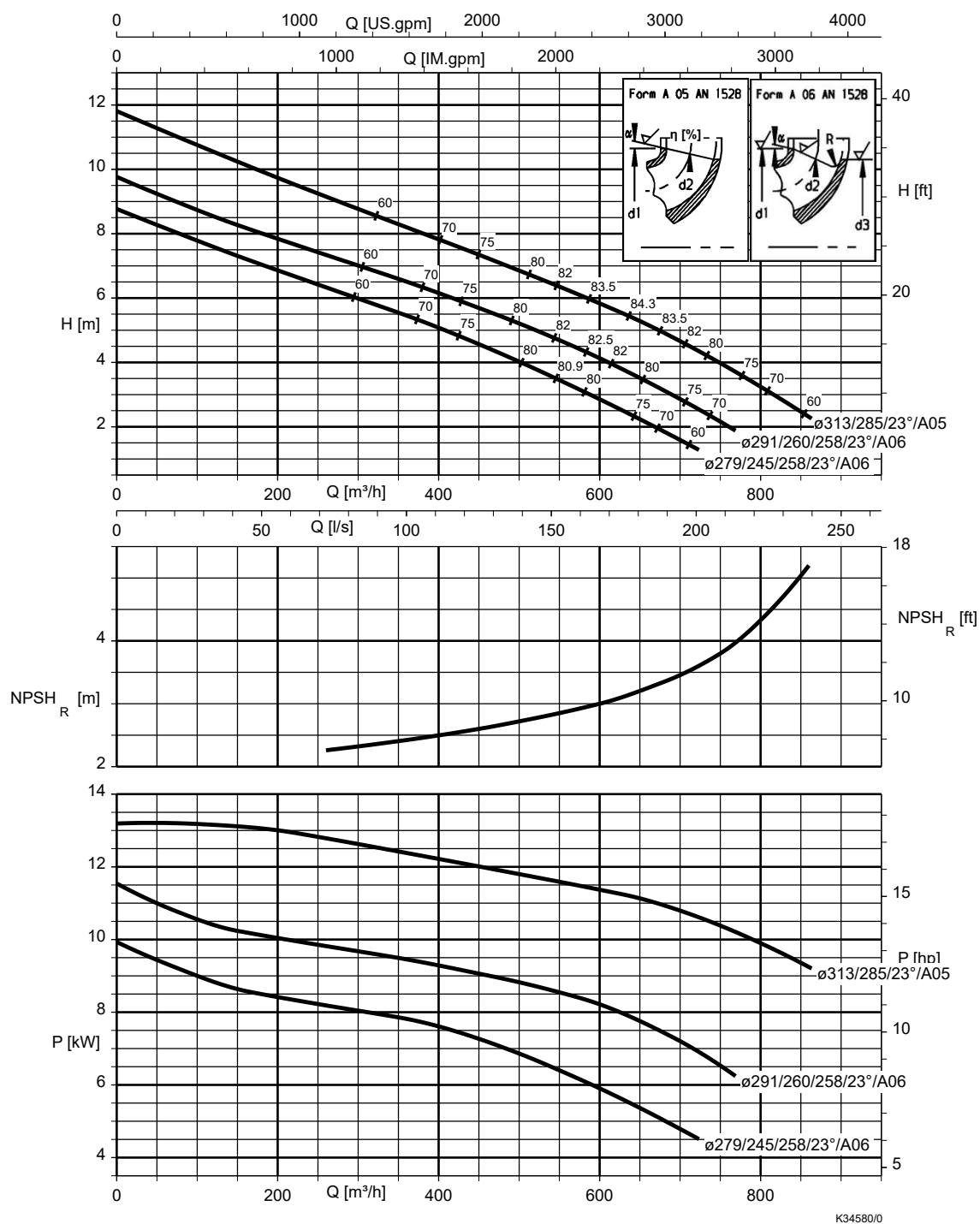


Tabelle 22: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 250-330,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

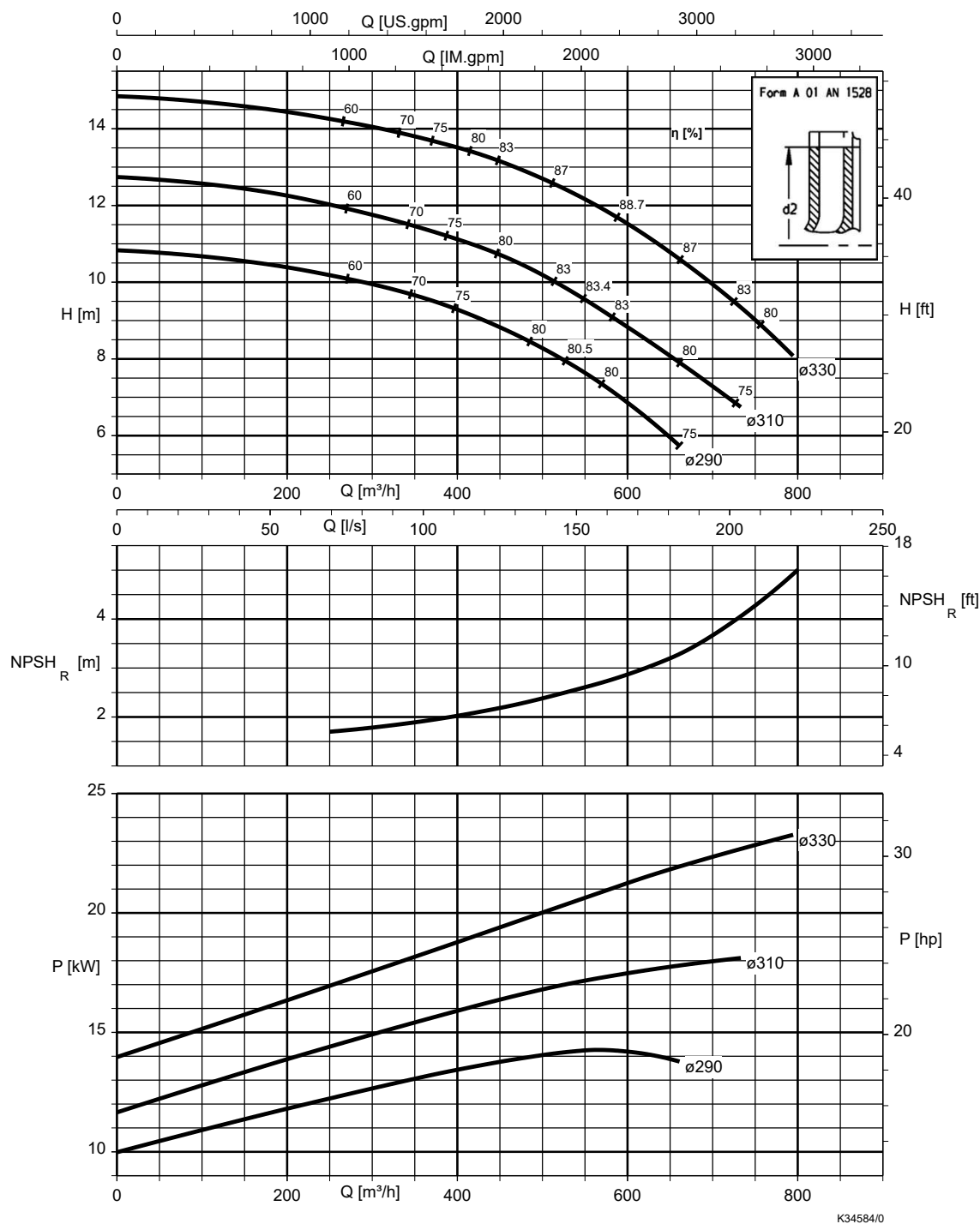


Tabelle 23: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 250-400,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

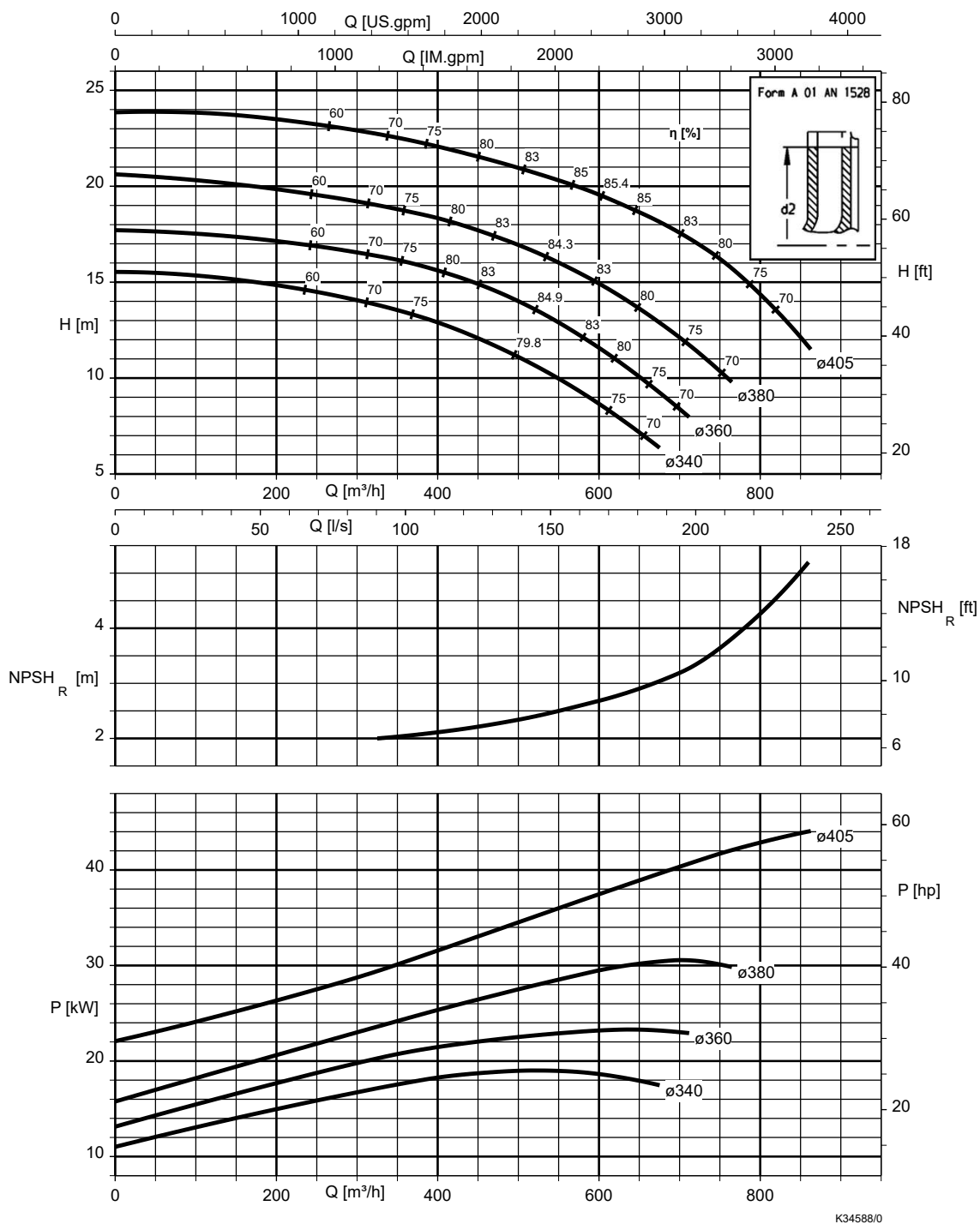


Tabelle 24: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 250-500,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

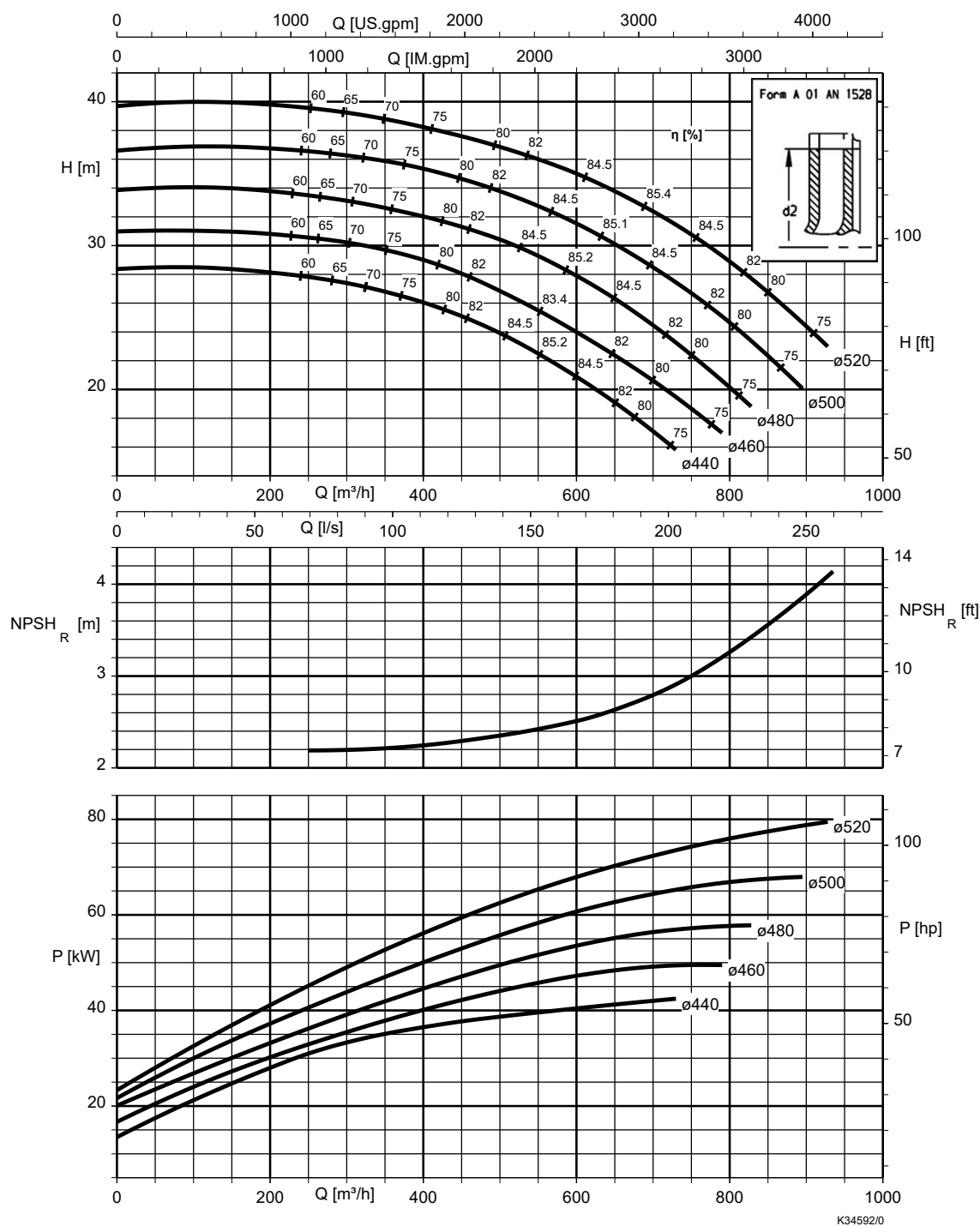


Tabelle 25: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 300-340,  $n = 960 \text{ min}^{-1}$

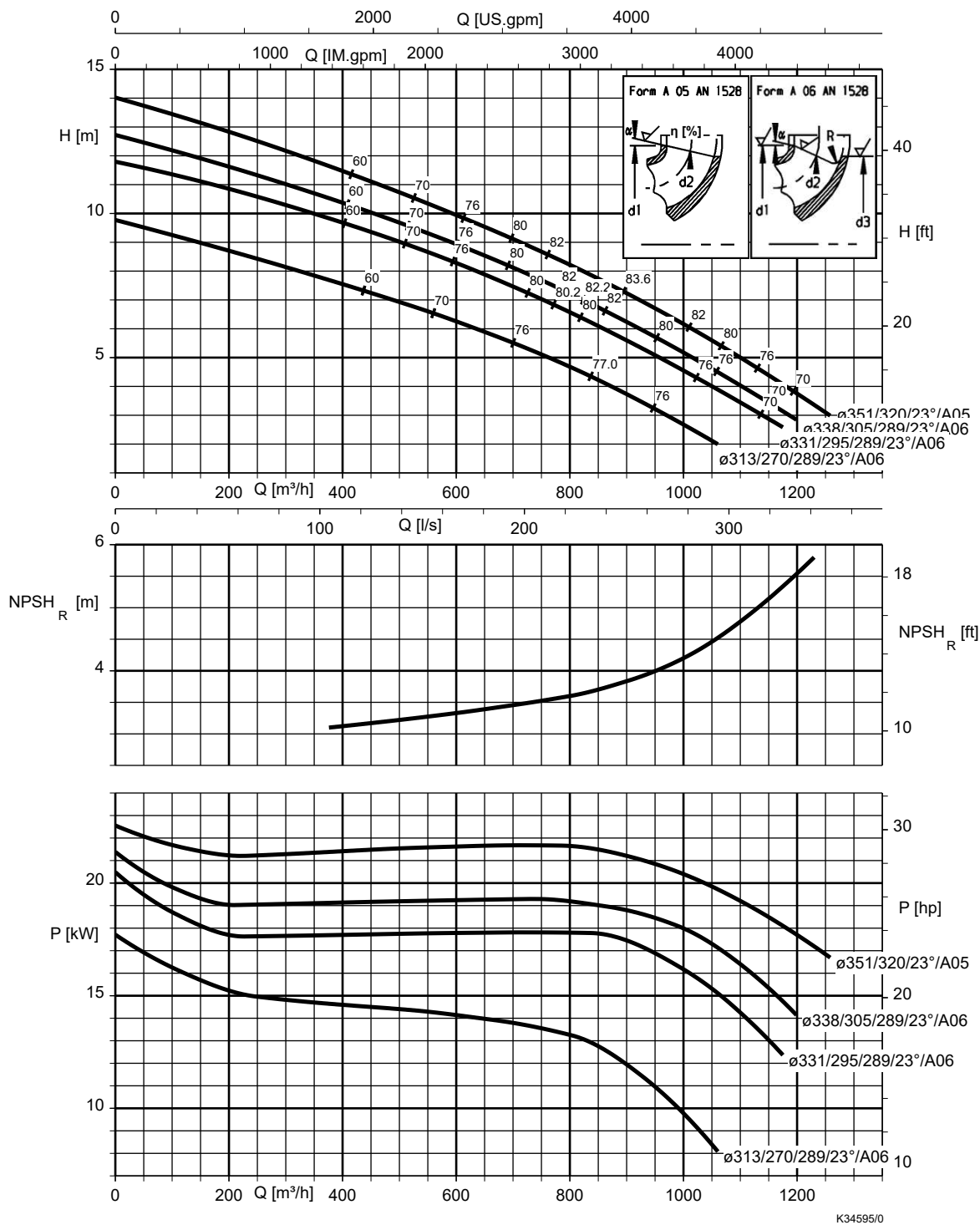


Tabelle 26: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 1,2                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 300-360,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

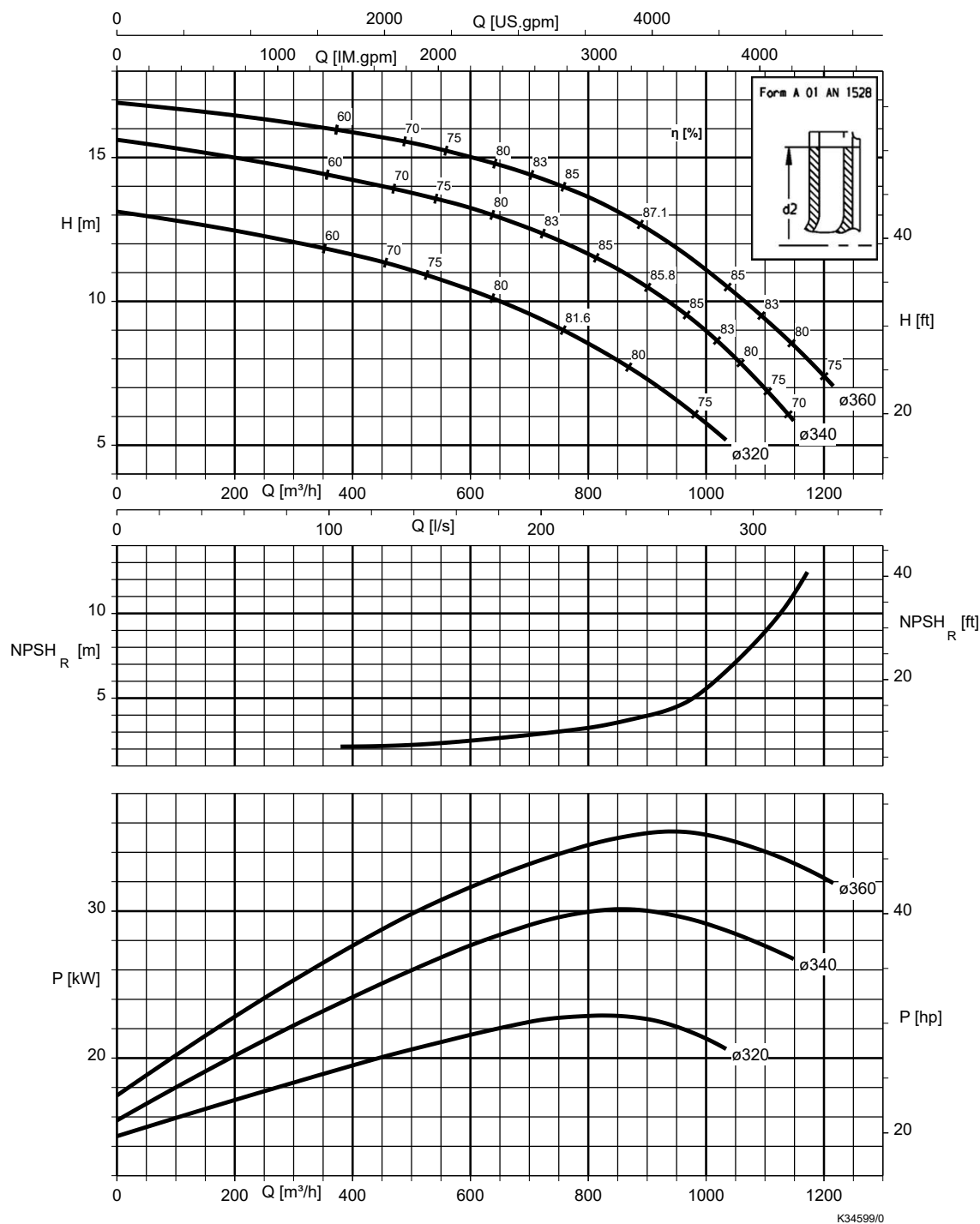


Tabelle 27: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 300-400, n = 960 min<sup>-1</sup>

Etanorm-RSY

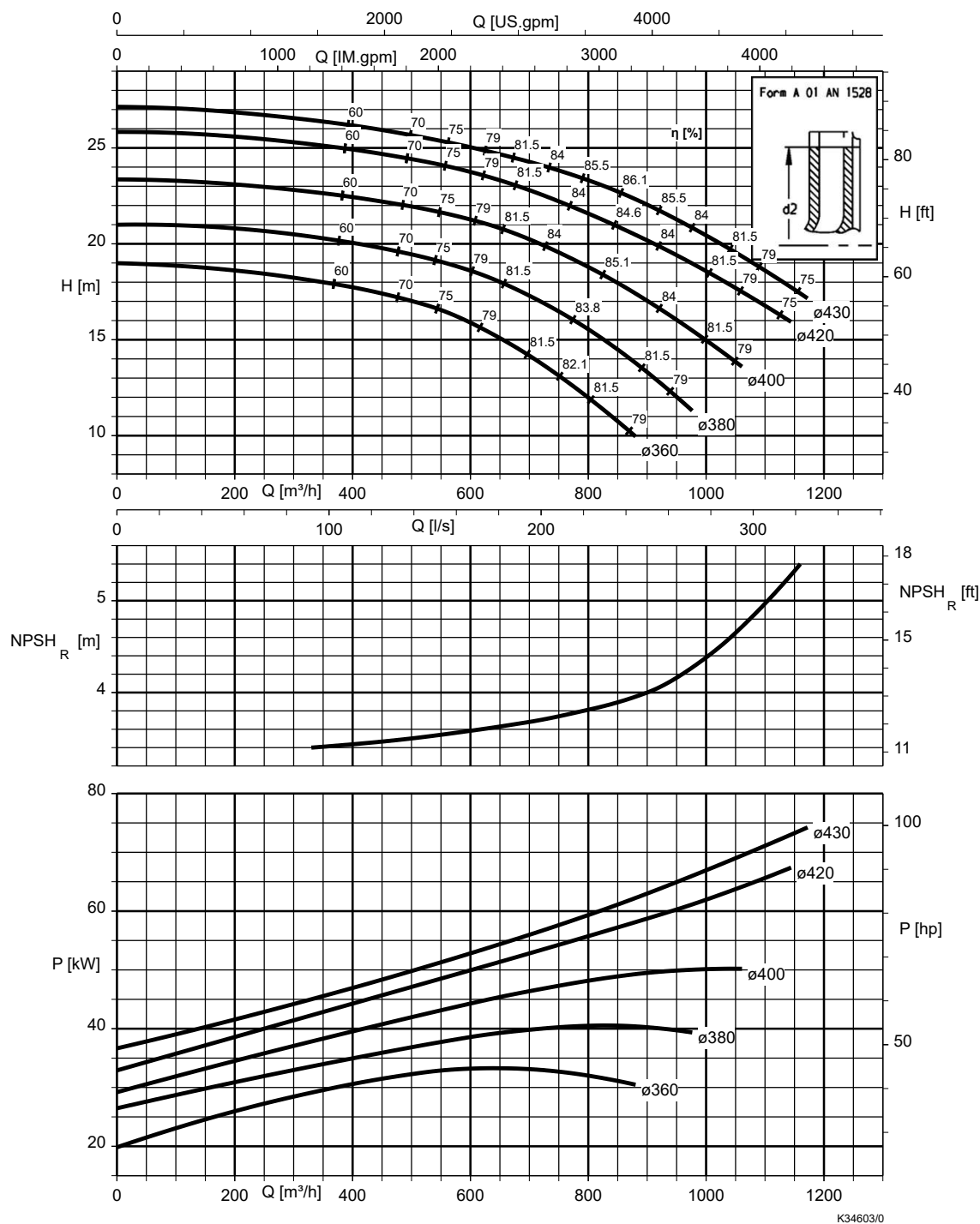


Tabelle 28: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |

Etanorm-R 300-500,  $n = 960 \text{ min}^{-1}$

Etanorm-RSY

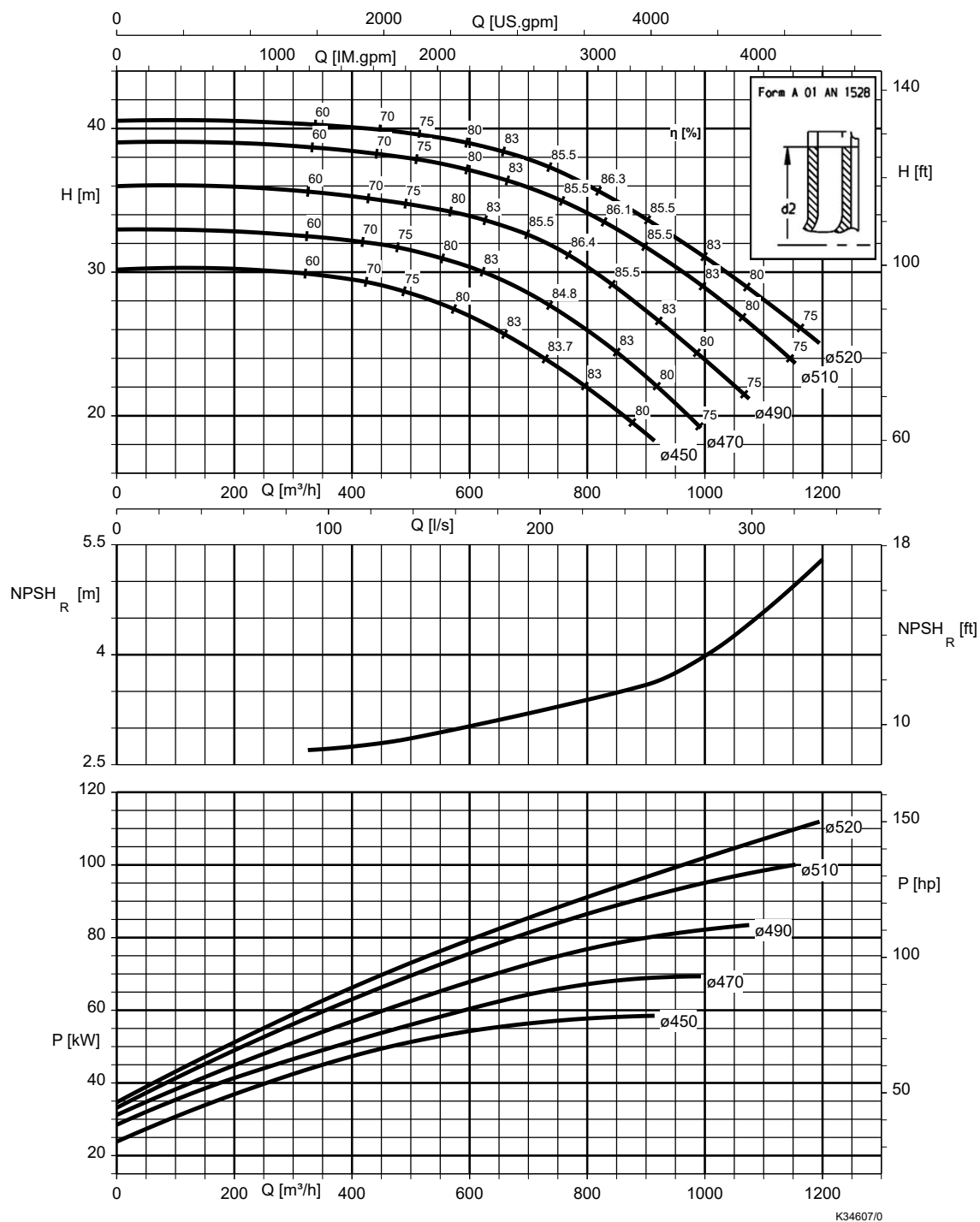


Tabelle 29: Korrekturwerte

| Laufwerkstoff | Korrekturwert S [m] | Berechnung                                         |
|---------------|---------------------|----------------------------------------------------|
| EN-GJL-250    | 0,5                 | $NPSH_{Anlage} \geq NPSH + \text{Korrekturwert S}$ |
| CC480K-GS     | 0,5                 |                                                    |
| 1.4408        | 0,5                 |                                                    |



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