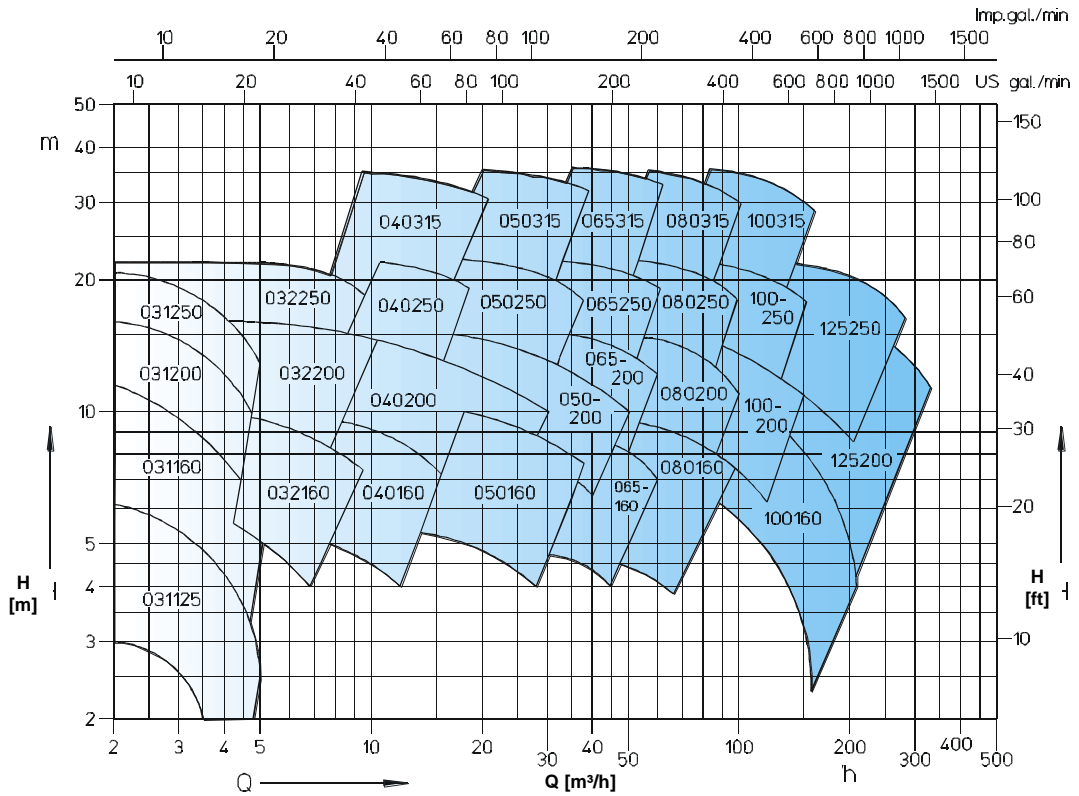


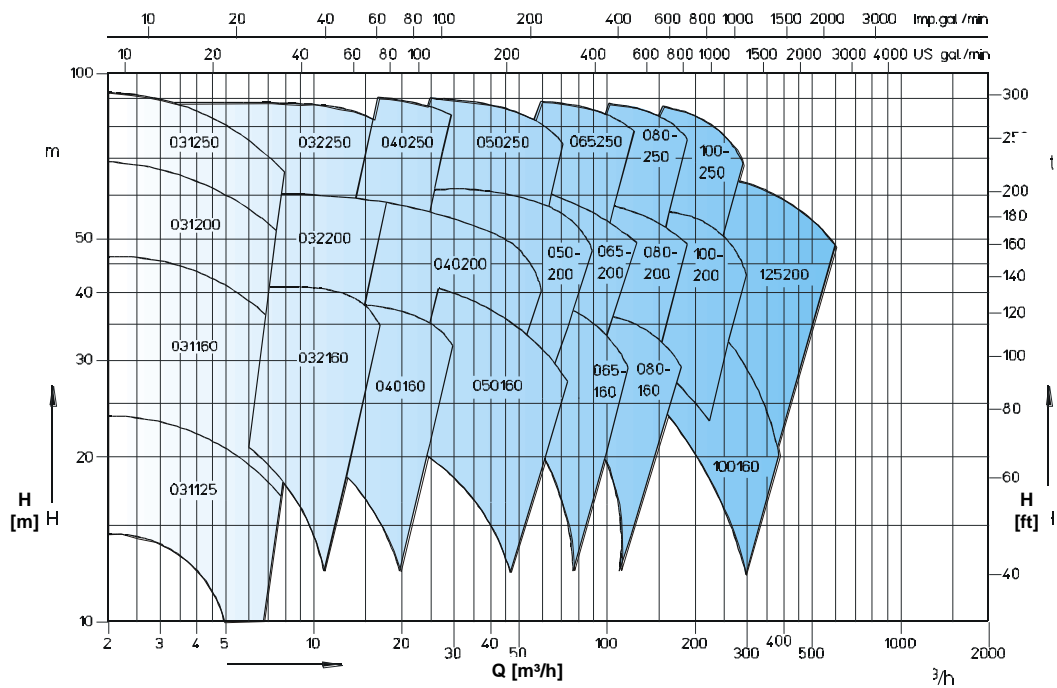
# HEISSWASSER KENNLINIENÜBERSICHT 50 Hz HOT WATER RANGE COVERAGE 50 Hz

ZEND

n = 1450 min<sup>-1</sup>

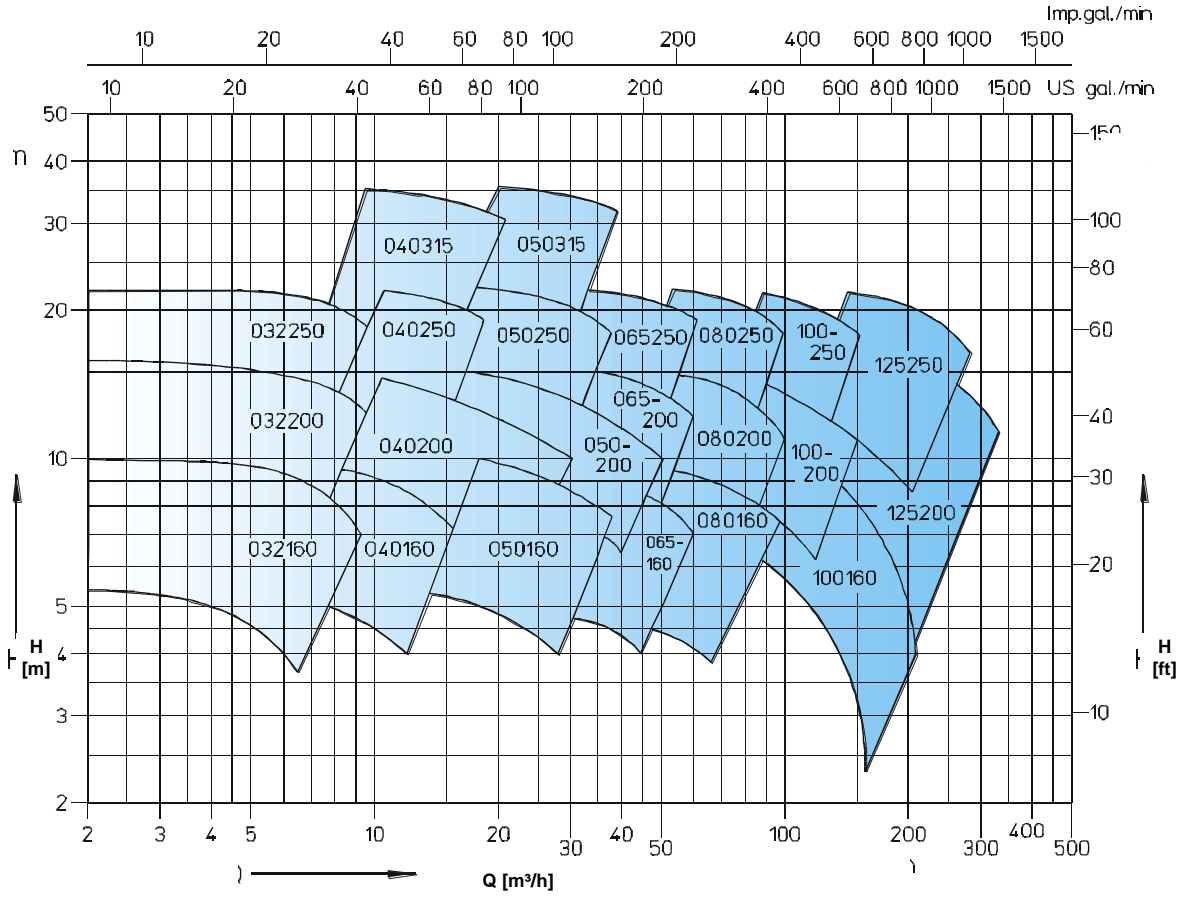


n = 2900 min<sup>-1</sup>

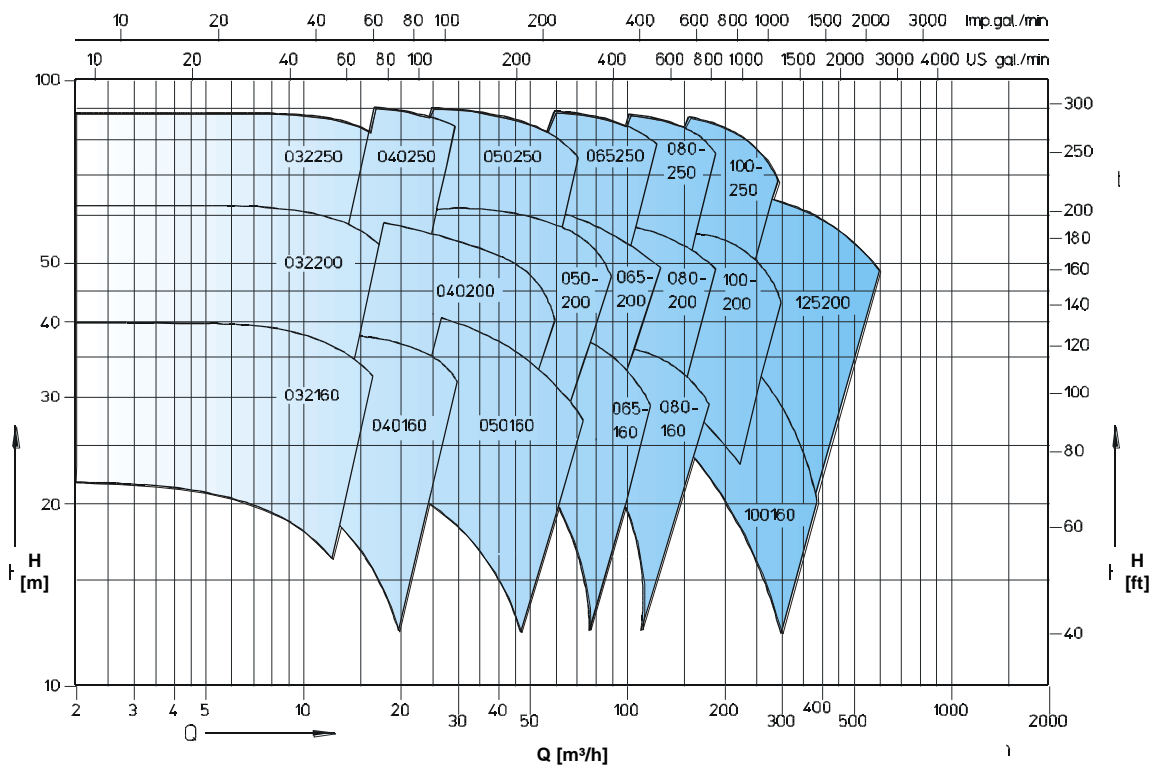


# ZDND

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

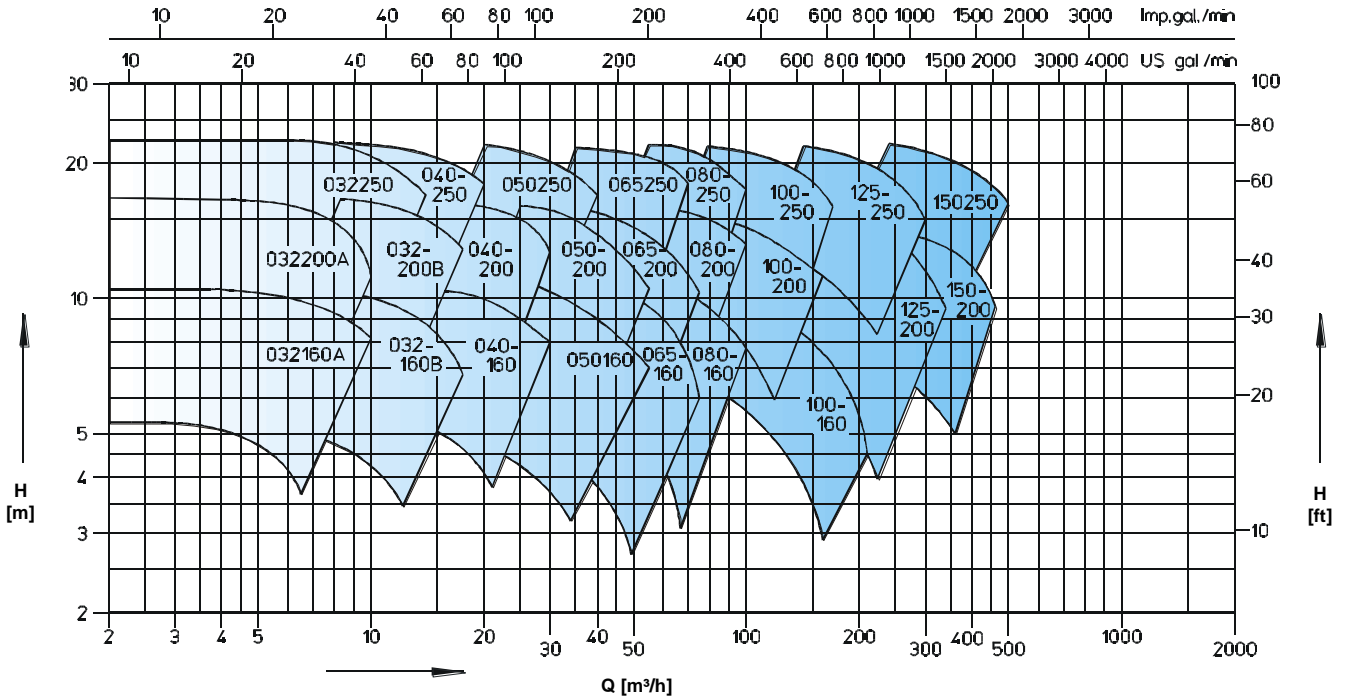


$n = 2900 \text{ min}^{-1}$

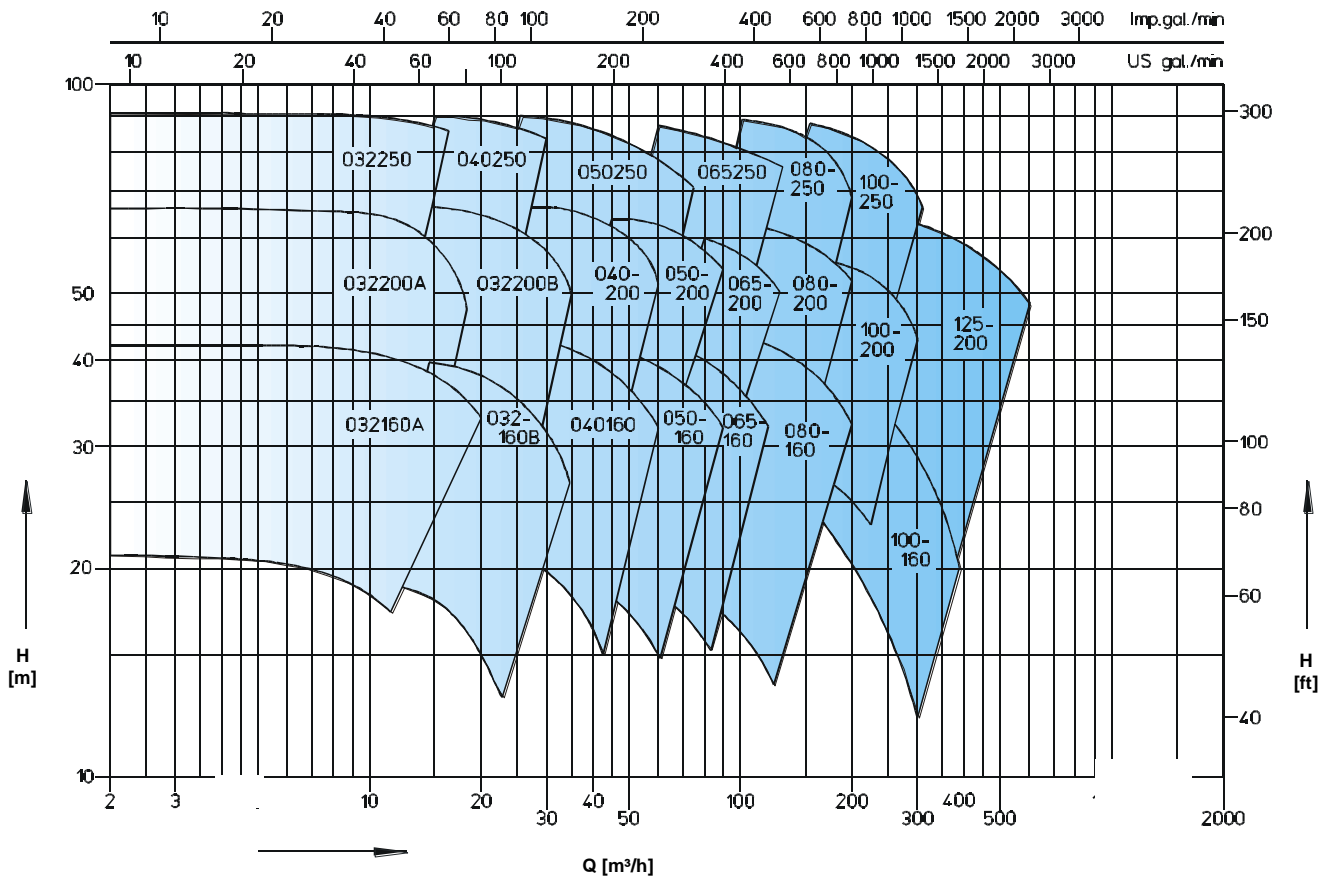


# ZHND

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



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



## Baureihe series

**ZEND**

Spiralgehäusepumpe in Prozessbauweise  
nach DIN EN 22858

*End suction pump, process type  
according to DIN EN 22858*

**ZDND**

Spiralgehäusepumpe in Prozessbauweise  
nach DIN EN 22858

*End suction pump, process type  
according to DIN EN 22858*

**ZHND**

Spiralgehäusepumpe in Prozessbauweise  
nach EN 733

*End suction pump, process type  
according to EN 733*

## Betriebsbereich

Der zulässige Betriebsbereich von Pumpen ist von verschiedenen Faktoren wie Art der Flüssigkeit, NPSH, Dauer des Betriebes, Baugröße der Pumpe (Schnellläufigkeit) etc. abhängig. Der empfohlene Bereich zur Auswahl von Pumpen ist in der folgenden Liste dargestellt. Ein Betrieb außerhalb dieser Grenzen ist für viele Baugrößen ebenfalls möglich, bedarf aber der Rückfrage bei Sterling SIHI.

## Operating Range

*The allowable operating range for pumps depends on different parameters like type of the liquid, NPSH, duration of operation, size of pump (specific speed) etc.*

*Recommended selection range for pumps is given in the following table.*

*Operation outside these limits is also possible for many sizes, but needs consultancy by Sterling Fluid Systems.*

## Bitte beachten: Please observe:

- 1) Kennlinien gültig für Pumpen mit geschlossenem Laufrad.  
*Curves are valid for pumps with closed impeller.*
- 2) Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
*Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 Annex A*
- 3) Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Magnetkupplungspumpen.  
*Power consumption does not include Eddy Current losses for magnetic drive pumps.*
- 4)  $NPSH_R$  - NPSH-Werte wurden im geschlossenem Kreislauf mit entgastem Wasser ermittelt. Die in den Kennlinien angegebenen NPSH-Werte sind Messwerte, die einem Förderhöhenabfall von 3% entsprechen. Sicherheitszuschlag von mindestens 0,5 m erforderlich.  
 *$NPSH_R$  - NPSH-values are measured with degassed water in a closed circuit. The NPSH-values given in the performance curve sheets are measured values which correspond to a loss of discharge head of 3%. Margin of minimum 0,5 m should be added.*

| Typ / Type           | Baugröße / Size | Q <sub>min</sub> Faktor / Factor | Q <sub>max</sub> Faktor / Factor |
|----------------------|-----------------|----------------------------------|----------------------------------|
| ZEND                 | 031125          | 0,3                              | 1,2                              |
|                      | 031160          | 0,3                              | 1,2                              |
|                      | 031200          | 0,3                              | 1,2                              |
|                      | 031250          | 0,3                              | 1,2                              |
| ZHND                 | 032160A         | 0,3                              | 1,2                              |
|                      | 032160B         | 0,3                              | 1,2                              |
| ZEND<br>ZDND         | 032160          | 0,3                              | 1,2                              |
| ZHND                 | 032200A         | 0,3                              | 1,2                              |
|                      | 032200B         | 0,3                              | 1,2                              |
| ZEND<br>ZDND         | 032200          | 0,3                              | 1,2                              |
| ZEND<br>ZDND<br>ZHND | 032250          | 0,3                              | 1,1                              |
|                      | 040160          | 0,3                              | 1,2                              |
|                      | 040200          | 0,3                              | 1,2                              |
|                      | 040250          | 0,3                              | 1,1                              |
| ZEND<br>ZDND         | 040315          | 0,3                              | 1,1                              |
| ZEND<br>ZDND<br>ZHND | 050160          | 0,3                              | 1,2                              |
|                      | 050200          | 0,3                              | 1,1                              |
|                      | 050250          | 0,3                              | 1,2                              |
| ZEND<br>ZDND         | 050315          | 0,3                              | 1,2                              |
| ZEND<br>ZDND<br>ZHND | 065160          | 0,3                              | 1,2                              |
|                      | 065200          | 0,3                              | 1,2                              |
|                      | 065250          | 0,3                              | 1,1                              |
| ZEND                 | 065315          | 0,3                              | 1,2                              |
| ZEND<br>ZDND<br>ZHND | 080160          | 0,3                              | 1,2                              |
|                      | 080200          | 0,3                              | 1,2                              |
|                      | 080250          | 0,3                              | 1,2                              |
| ZEND                 | 080315          | 0,3                              | 1,2                              |
| ZEND<br>ZDND<br>ZHND | 100160          | 0,5                              | 1,2                              |
|                      | 100200          | 0,5                              | 1,2                              |
|                      | 100250          | 0,5                              | 1,1                              |
| ZEND                 | 100315          | 0,3                              | 1,2                              |
| ZEND<br>ZDND<br>ZHND | 125200          | 0,5                              | 1,2                              |
|                      | 125250          | 0,5                              | 1,2                              |
| ZHND                 | 150200          | 0,5                              | 1,1                              |
|                      | 150250          | 0,3                              | 1,1                              |

Die empfohlenen Grenzwerte für die Auslegung werden wie folgt berechnet:

Q<sub>min</sub> und Q<sub>max</sub> Faktoren aus vorstehender Tabelle  
 Q<sub>Optimum</sub> (Volumenstrom, bei dem die Pumpe ihren besten Wirkungsgrad erreicht) aus der Einzelkennlinie

$$Q_{\min \text{ Auslegung}} = Q_{\min \text{ Faktor}} \times Q_{\text{Optimum}}$$

$$Q_{\max \text{ Auslegung}} = Q_{\max \text{ Faktor}} \times Q_{\text{Optimum}}$$

Beispiel:

Baugröße: ZEND 032160

$$Q_{\min} = 0,3 \times 6,9 \text{ m}^3/\text{h} = 2,1 \text{ m}^3/\text{h}.$$

$$Q_{\max} = 1,2 \times 6,9 \text{ m}^3/\text{h} = 8,3 \text{ m}^3/\text{h}.$$

To calculate Q<sub>min</sub> and Q<sub>max</sub>, the following calculation should be applied:

Q<sub>min</sub> and Q<sub>max</sub> factors from table above

Q<sub>Optimum</sub> (point of capacity with the best efficiency of the pump) from the pump curve

$$Q_{\min \text{ calculation}} = Q_{\min \text{ factor}} \times Q_{\text{Optimum}}$$

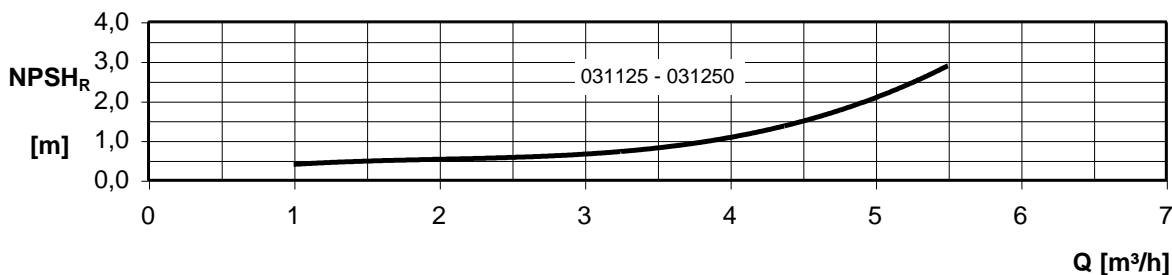
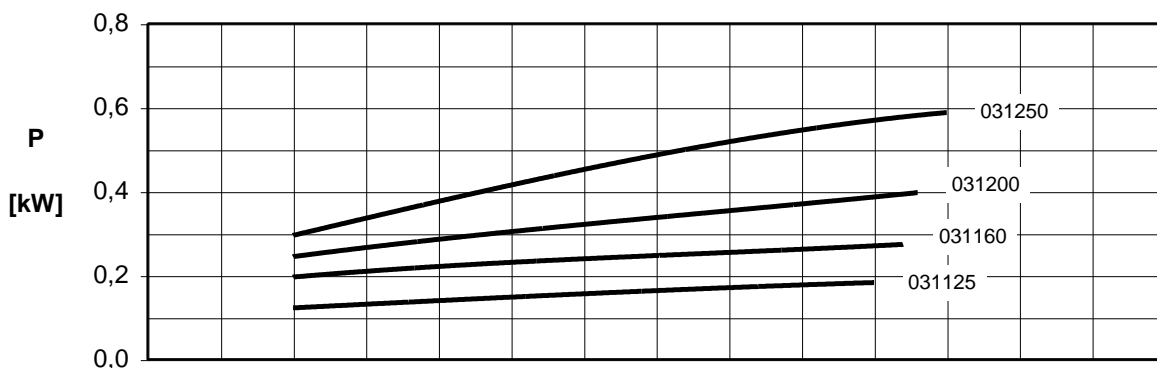
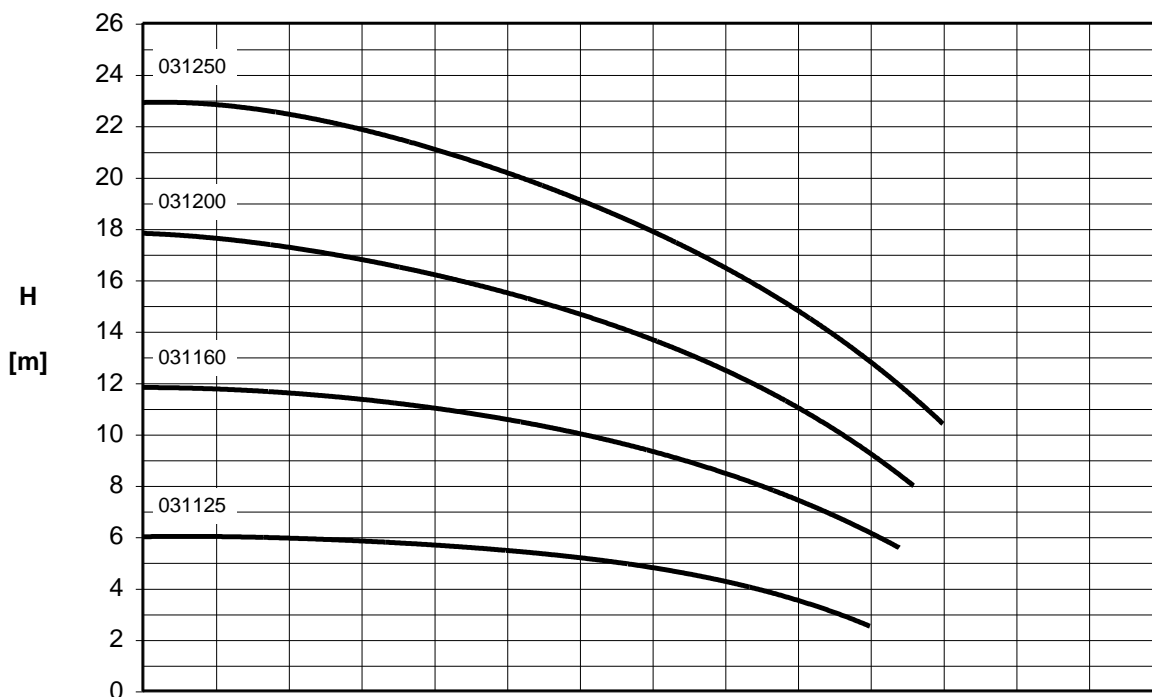
$$Q_{\max \text{ calculation}} = Q_{\max \text{ factor}} \times Q_{\text{Optimum}}$$

Example:

Pump size: ZEND 032160

$$Q_{\min} = 0,3 \times 6,9 \text{ m}^3/\text{h} = 2,1 \text{ m}^3/\text{h}.$$


$$Q_{\max} = 1,2 \times 6,9 \text{ m}^3/\text{h} = 8,3 \text{ m}^3/\text{h}.$$

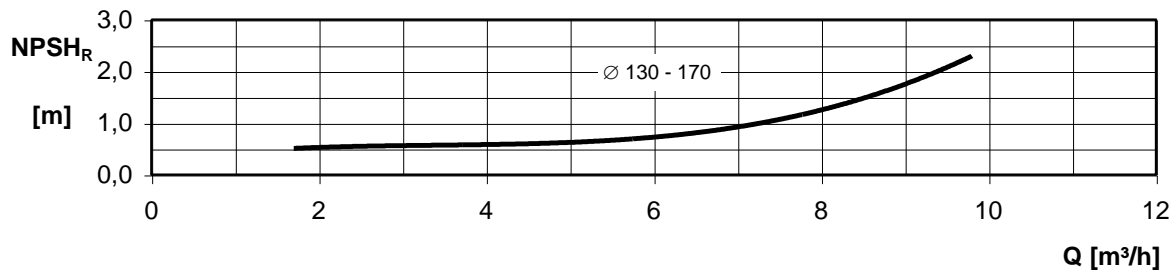
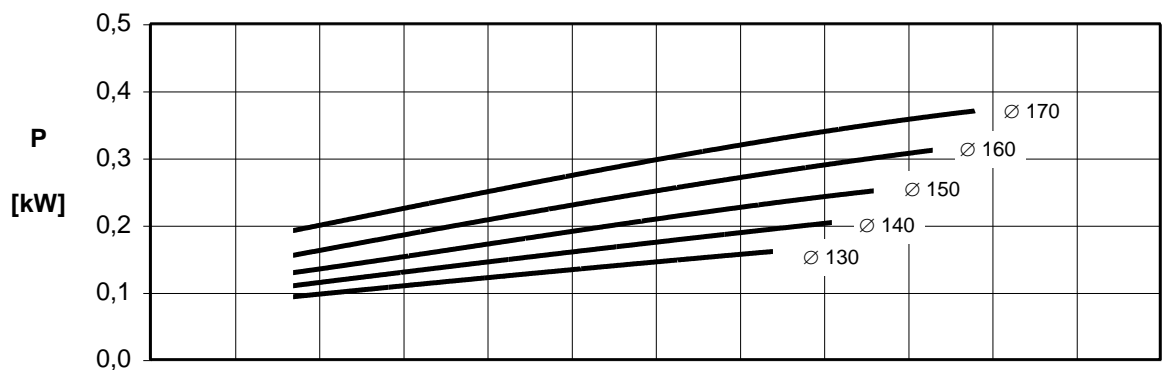
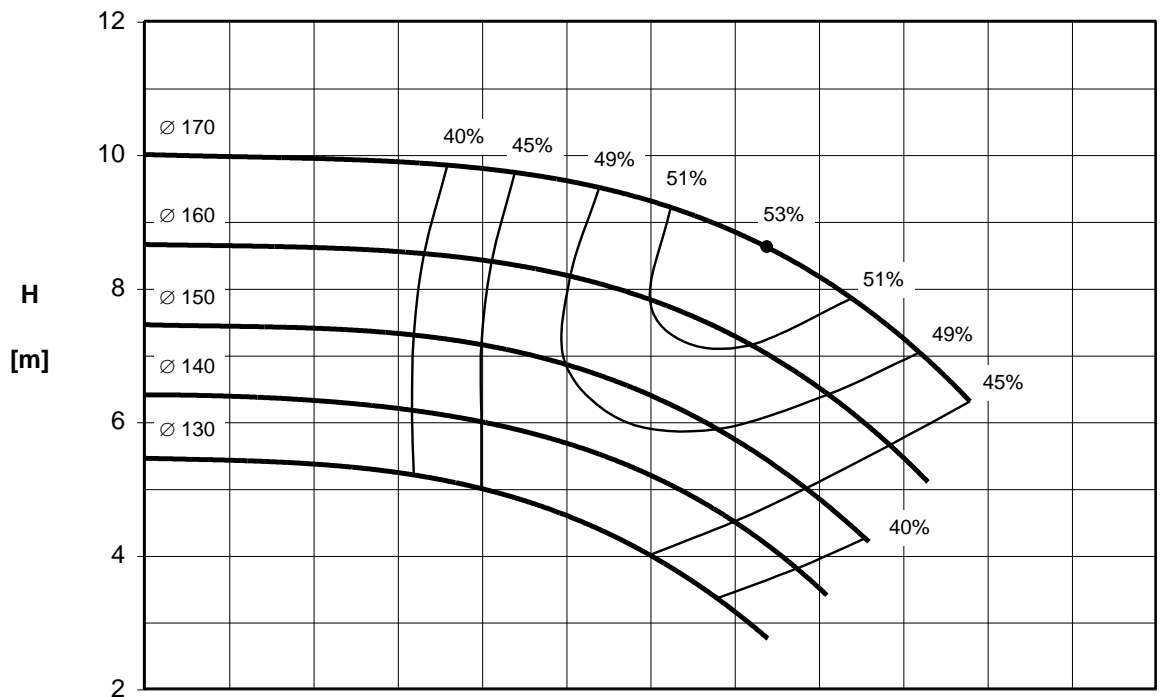


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive

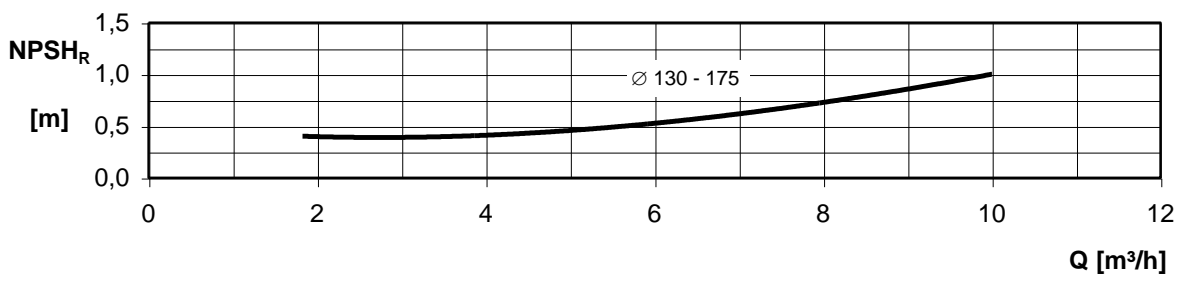
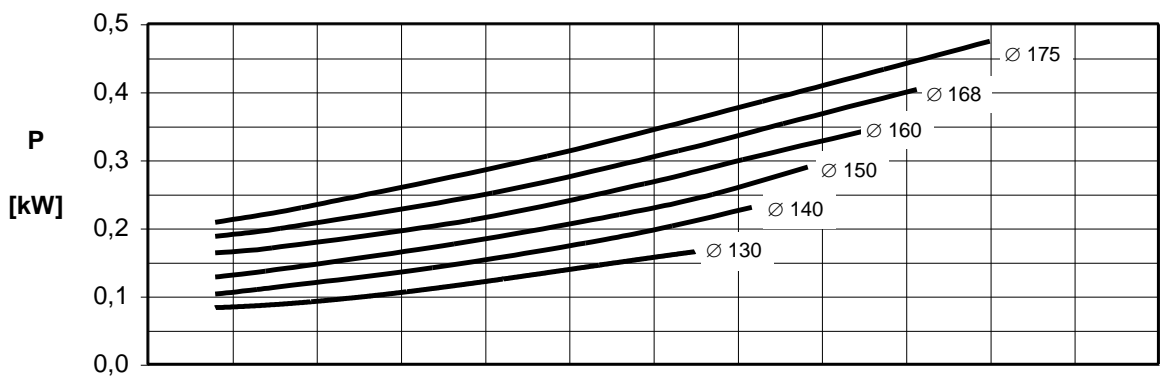
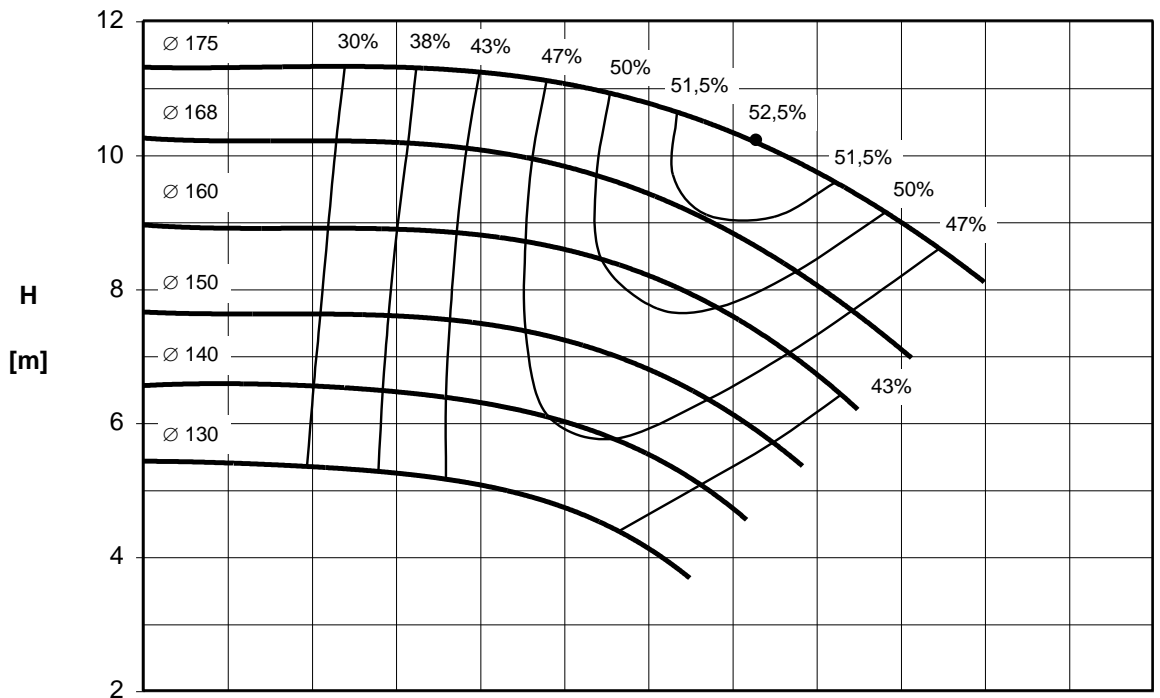
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|------------------------------|------|------|---|--|--|--|---|--|--|
| SIHI <i>SuperNova</i> 032160 |      |      | Nenn Drehzahl / nominal speed<br>1450 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |  |
| Baureihe / series            | ZEND | ZDND |   |  |  |  |   |  |  |



1 m<sup>3</sup>/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
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 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



1 m<sup>3</sup>/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:**

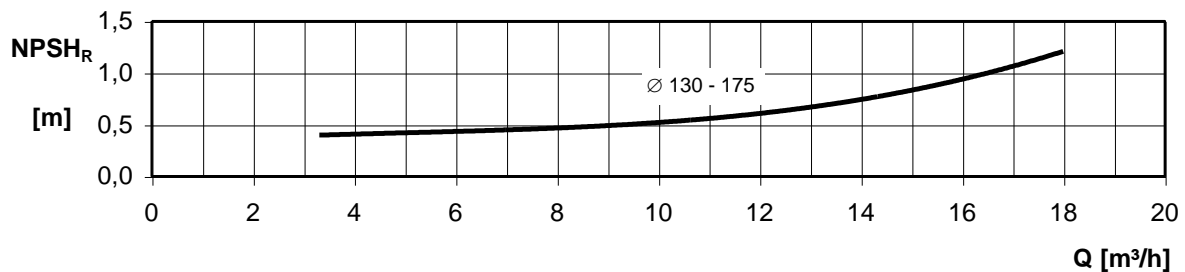
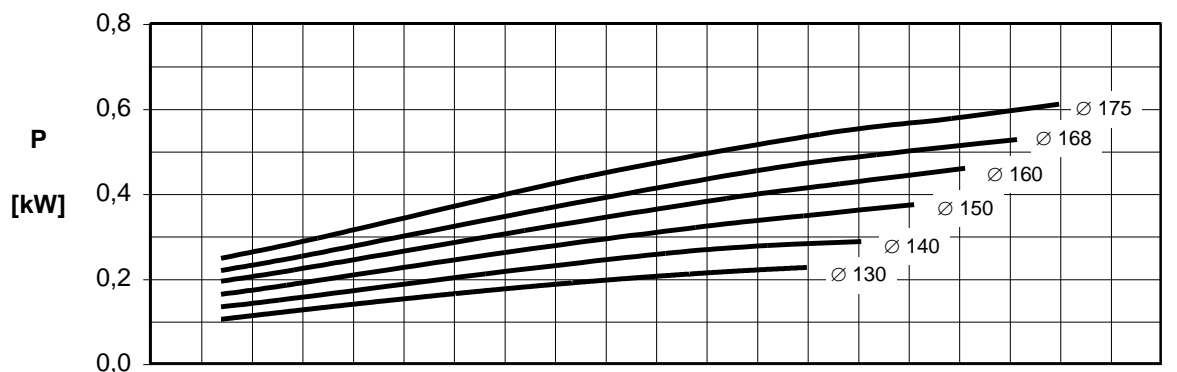
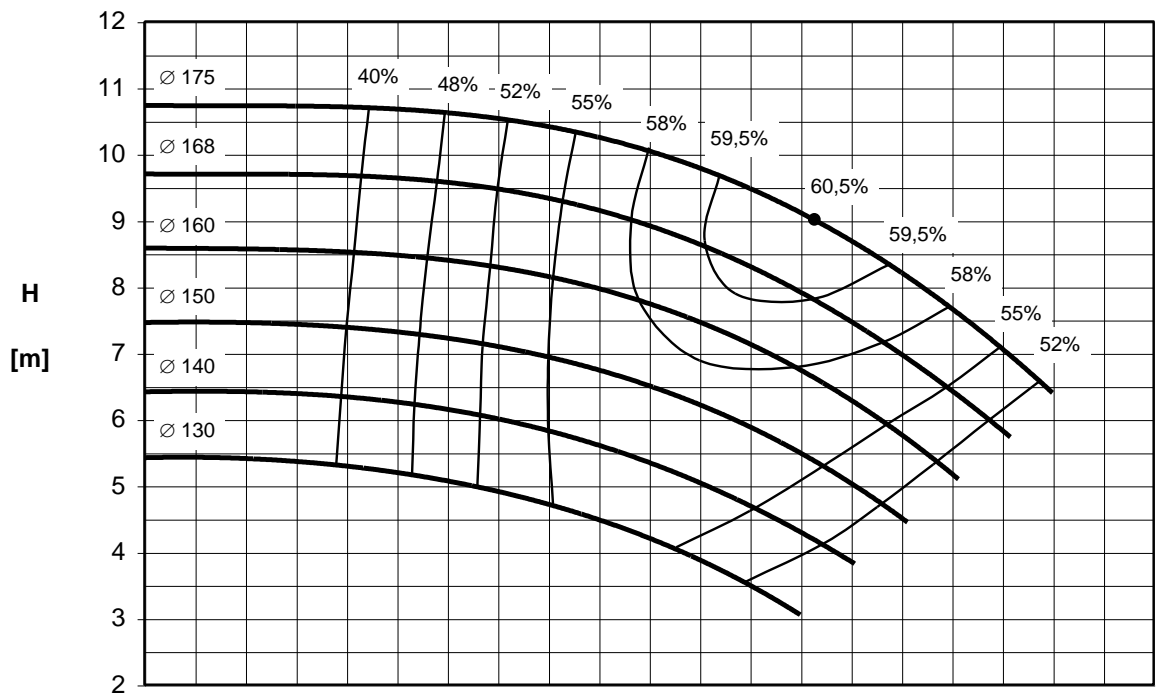
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**Please observe:**

Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
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 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



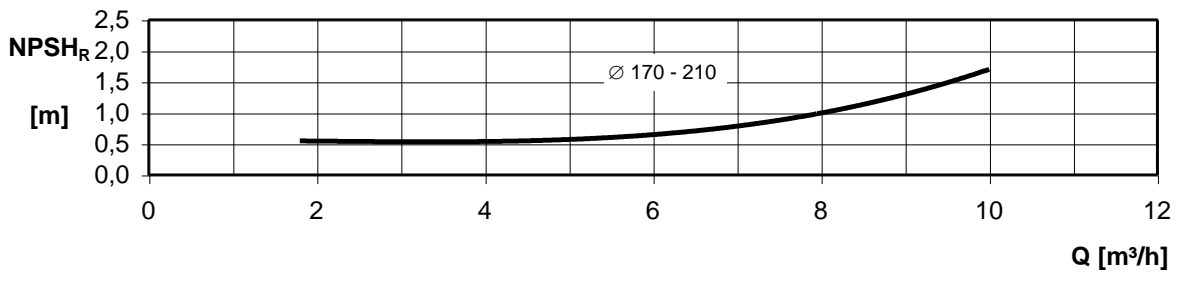
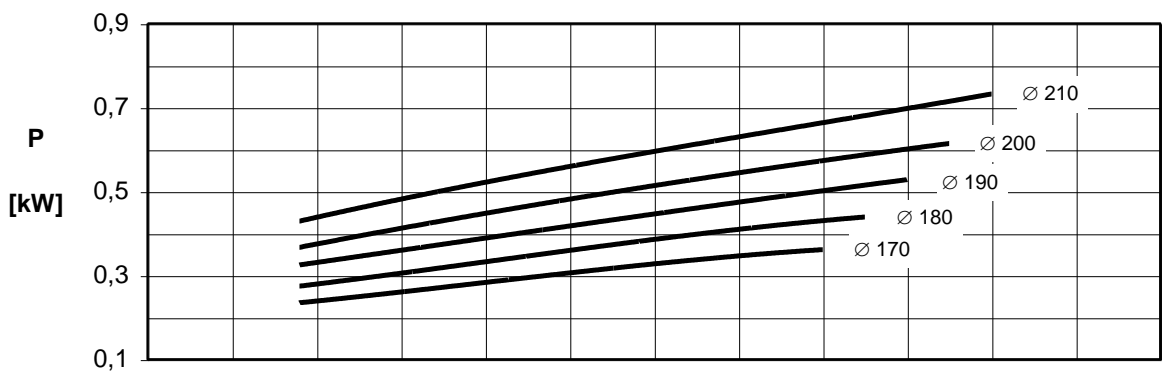
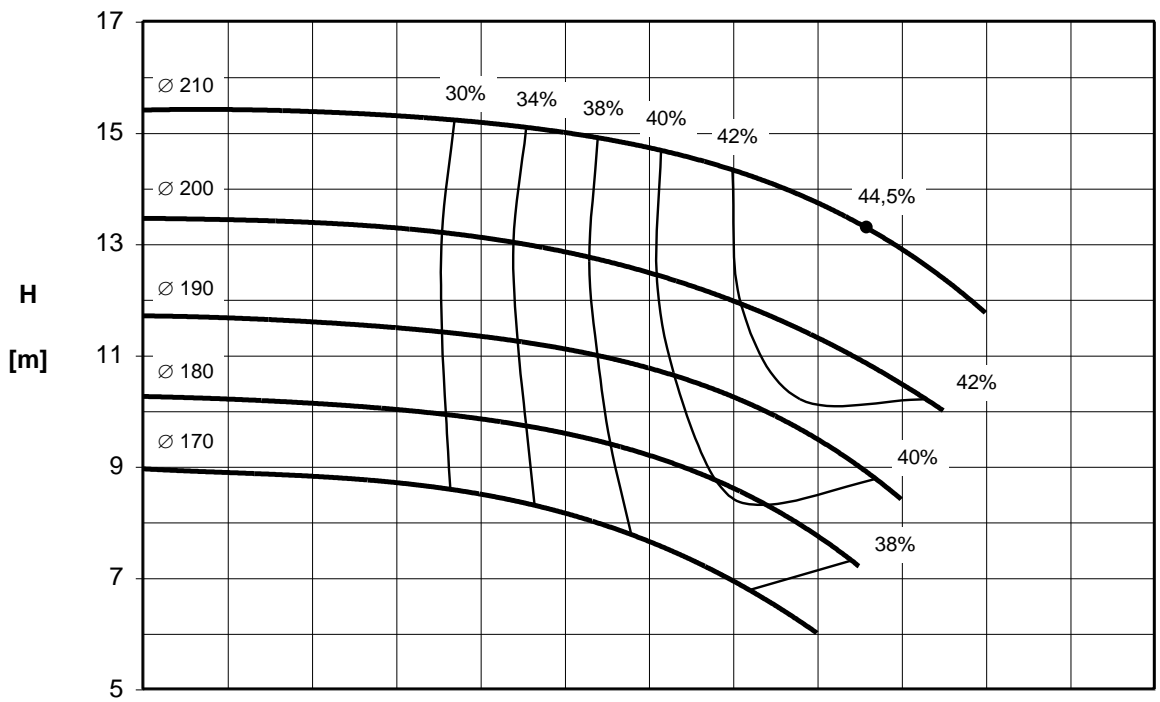
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| <b>SIHI<sup>SuperNova</sup> 032160B</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |
| <b>Baureihe / series</b>                | <b>ZHND</b> |  |  |  |  |  |  |



1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



1 m<sup>3</sup>/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

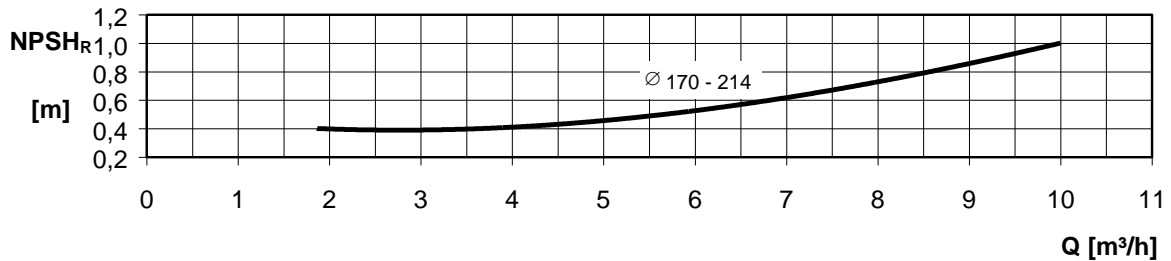
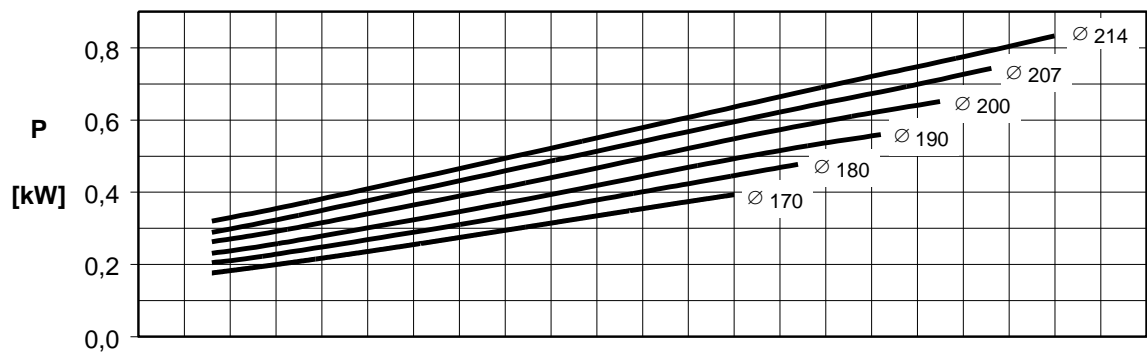
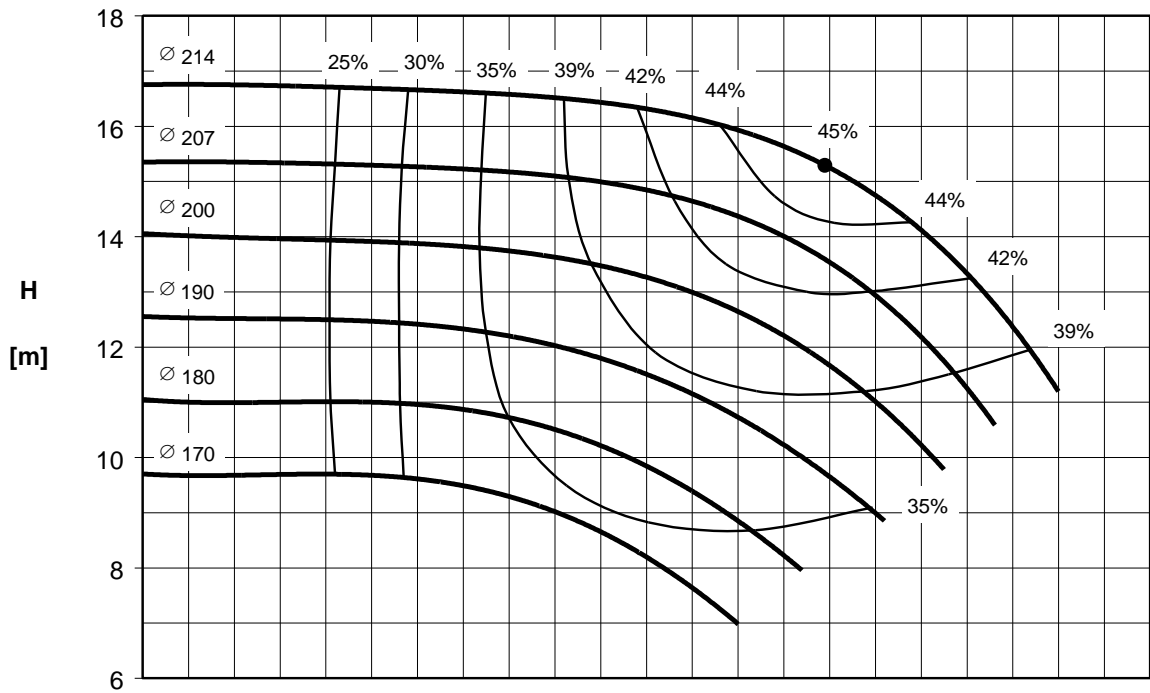
**Bitte beachten:**

Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
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Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
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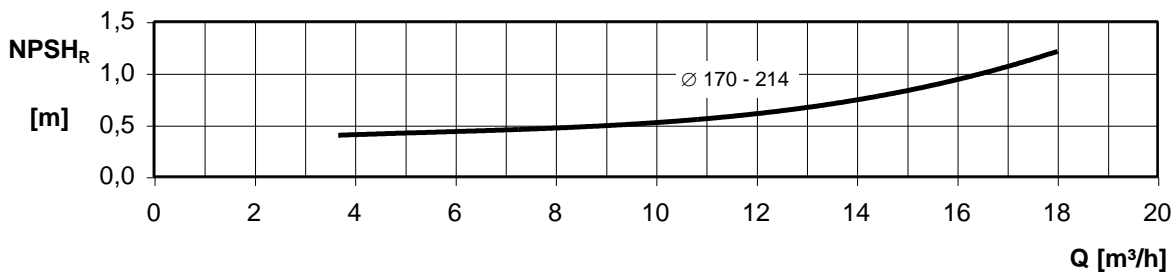
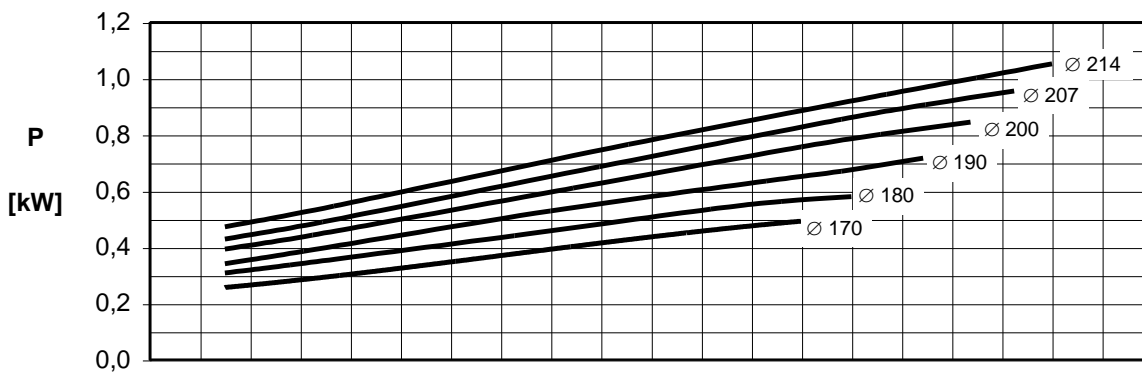
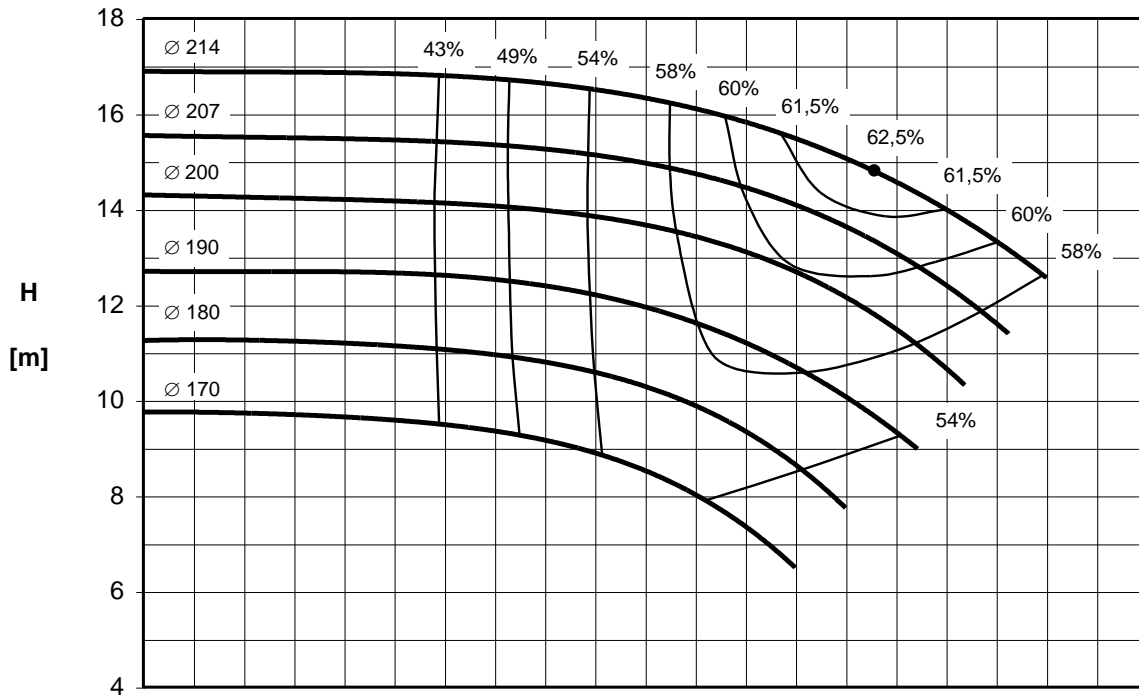
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|---|-------------|--|--|--|---|--|--|
| <b>SIHI<sup>SuperNova</sup> 032200A</b> |             | <b>Nennndrehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  | <b>FLOWERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>                | <b>ZHND</b> |  |  |  |   |  |  |



1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
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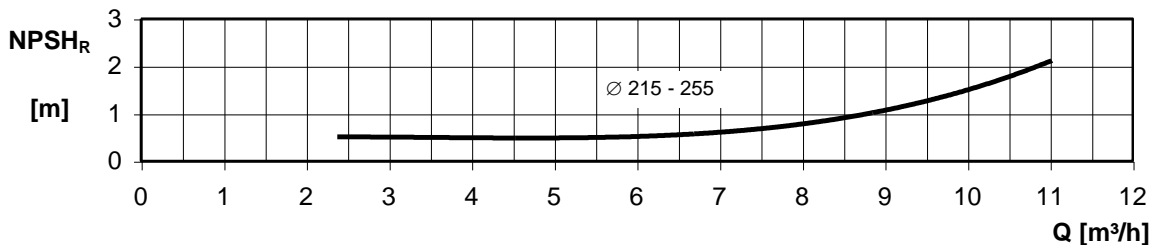
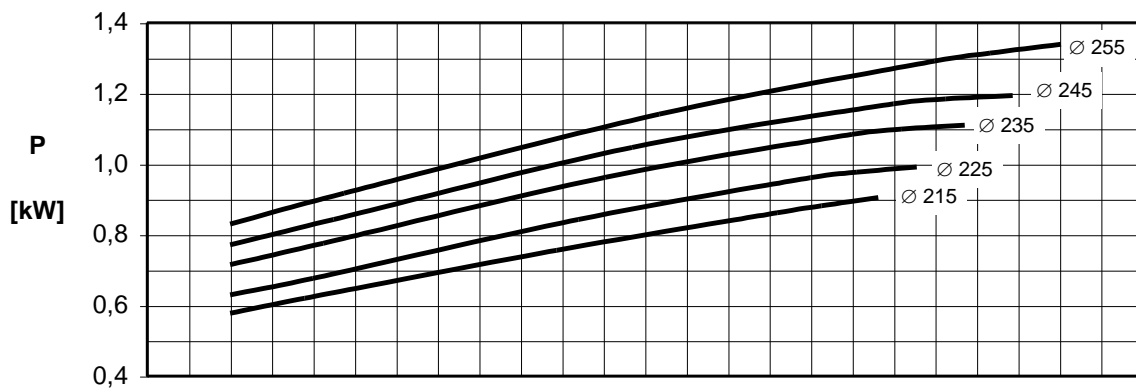
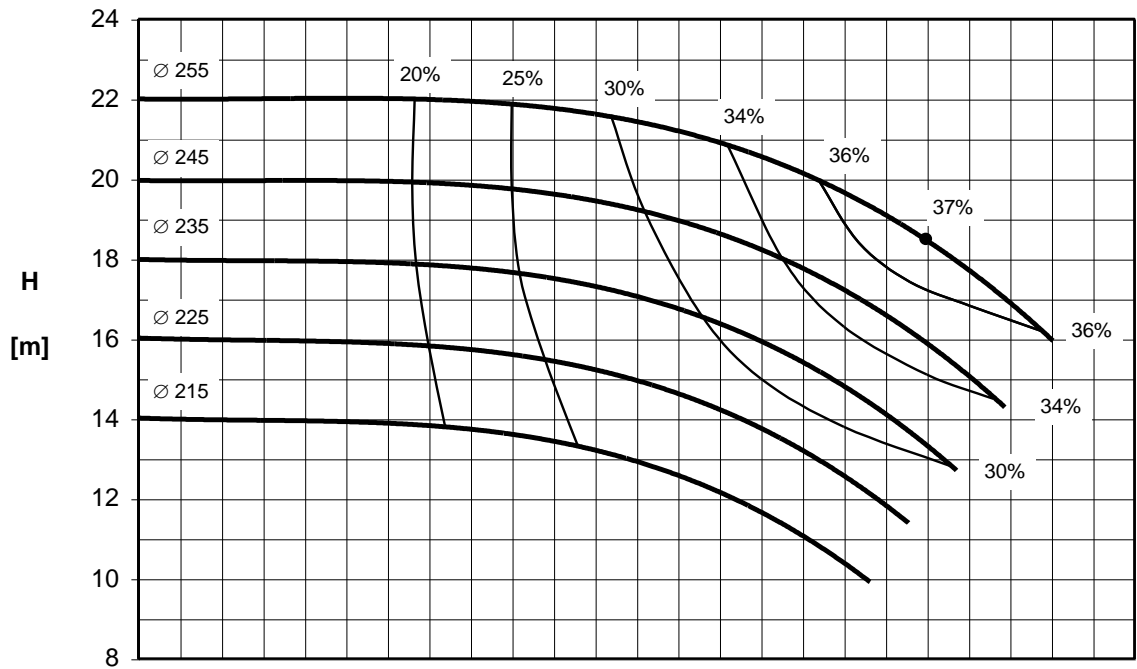
**Bitte beachten:**

Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
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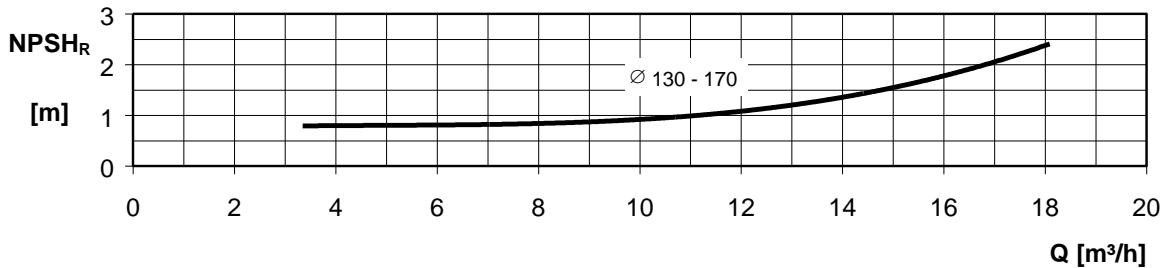
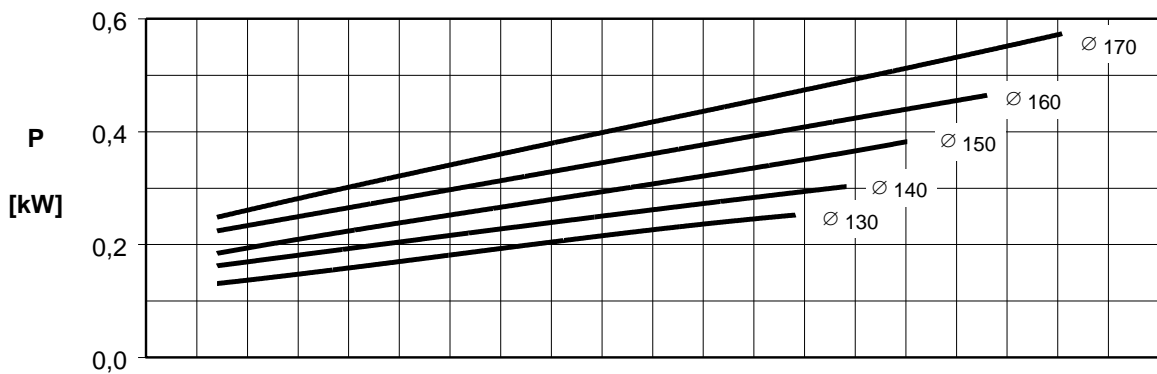
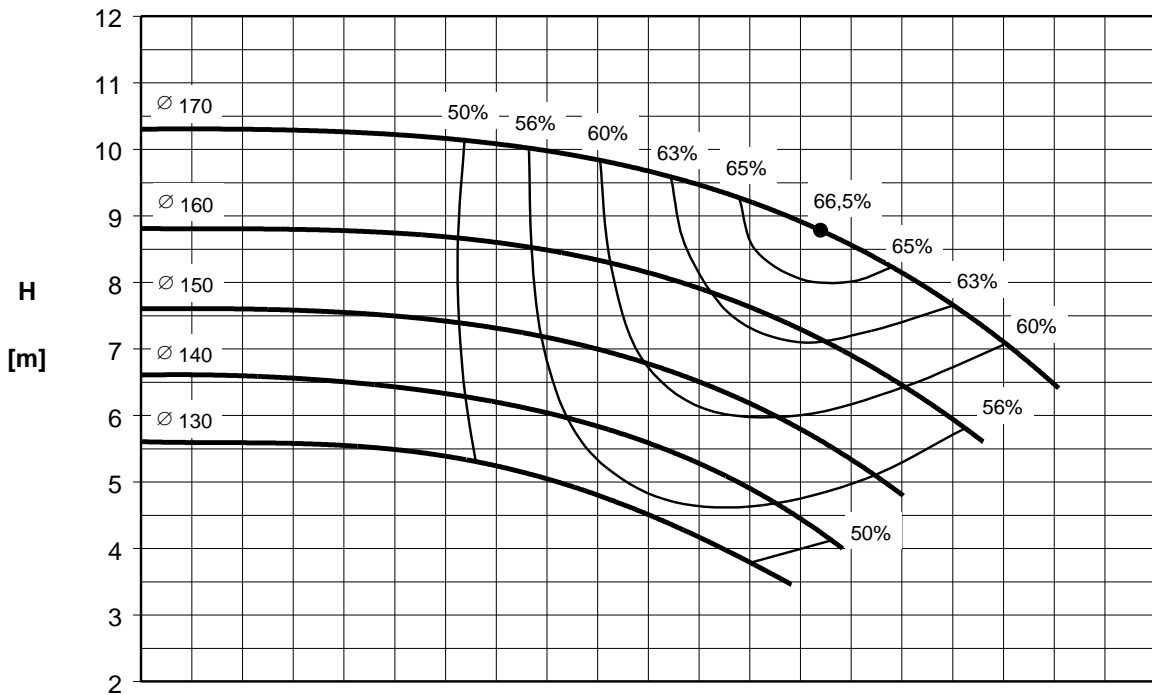
|  |             |             |  |  |  |  |  |  |  |
|--|-------------|-------------|--|--|--|--|--|--|--|
| <b>SIHI<sup>SuperNova</sup> 032250</b> |             |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZEND</b> | <b>ZDND</b> | <b>ZHND</b>  |  |  |  |  |  |  |



1 m<sup>3</sup>/h = 3,663 Imp g.p.m. / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

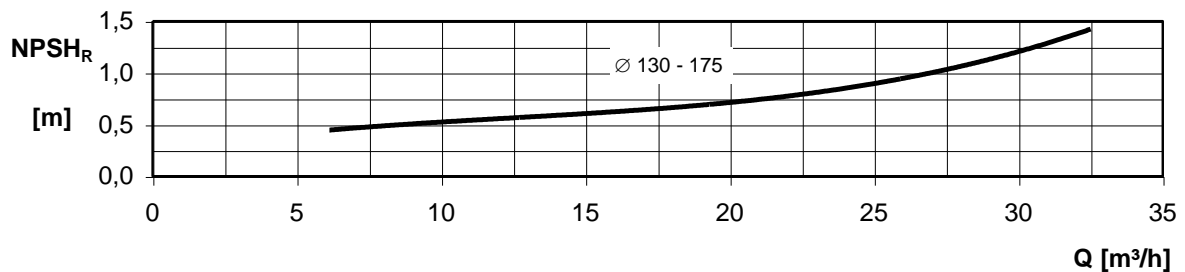
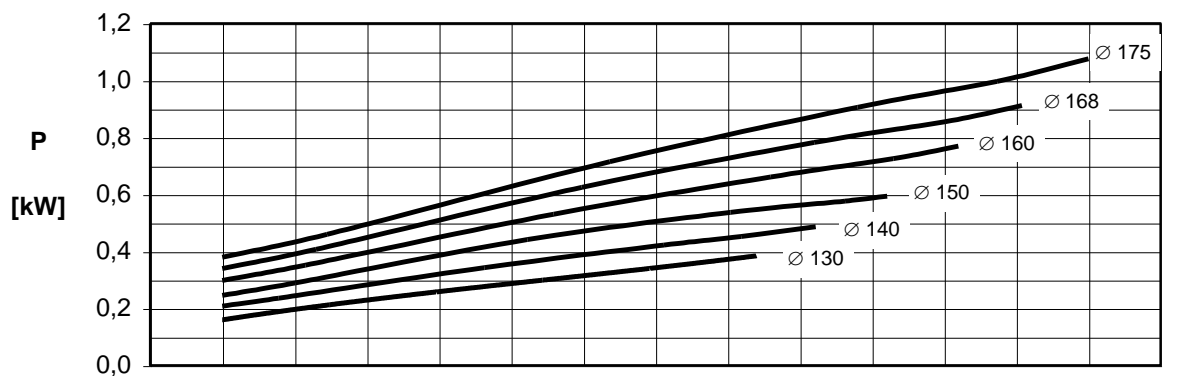
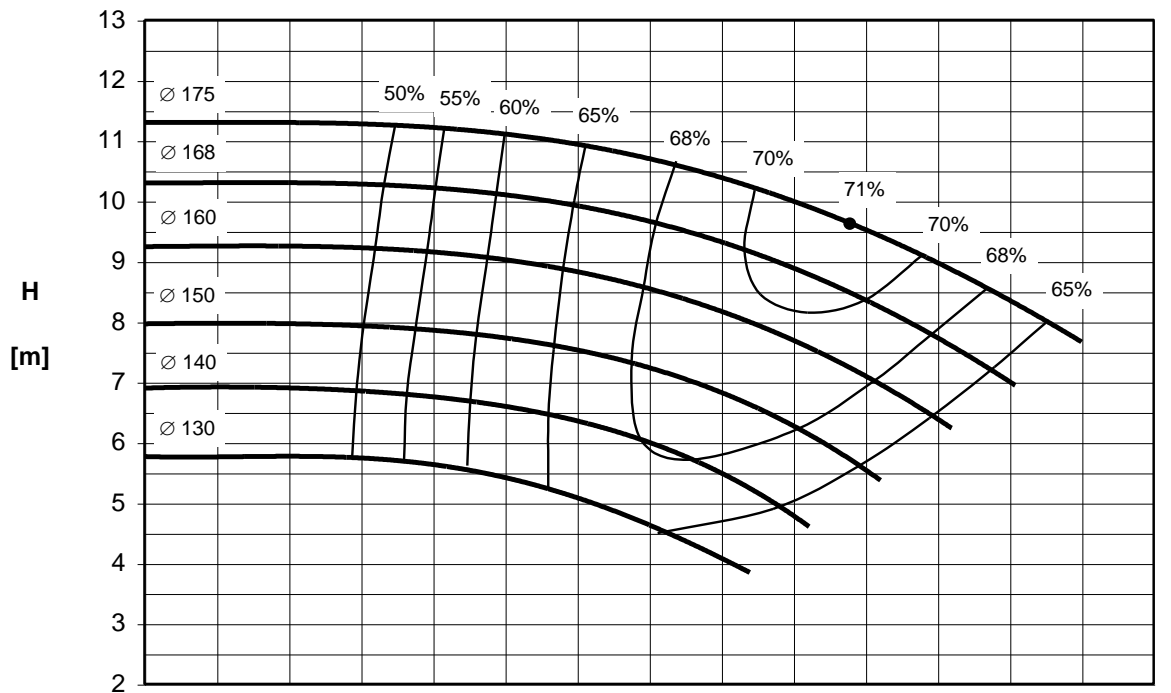
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Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
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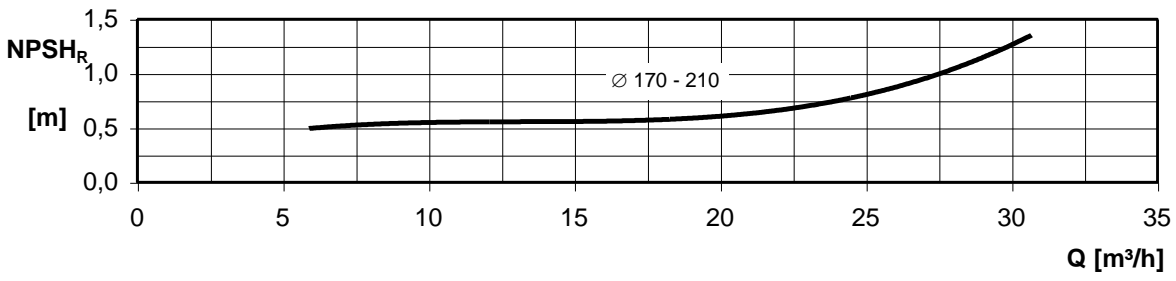
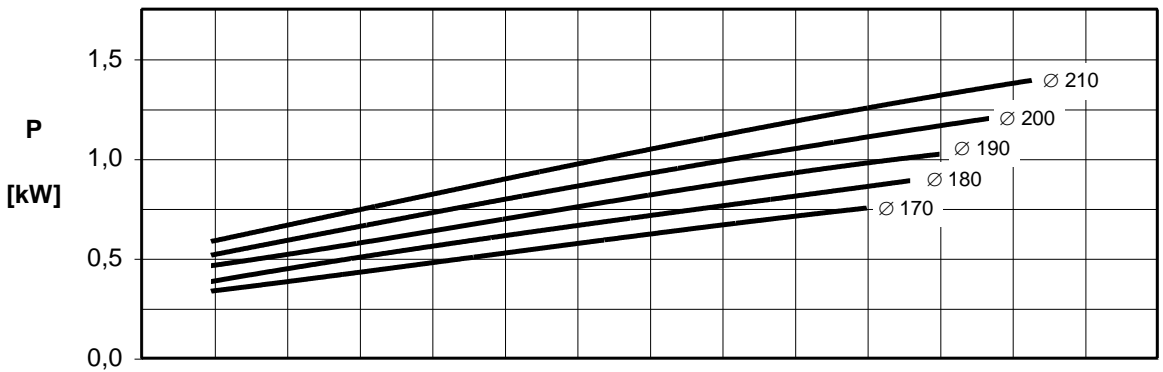
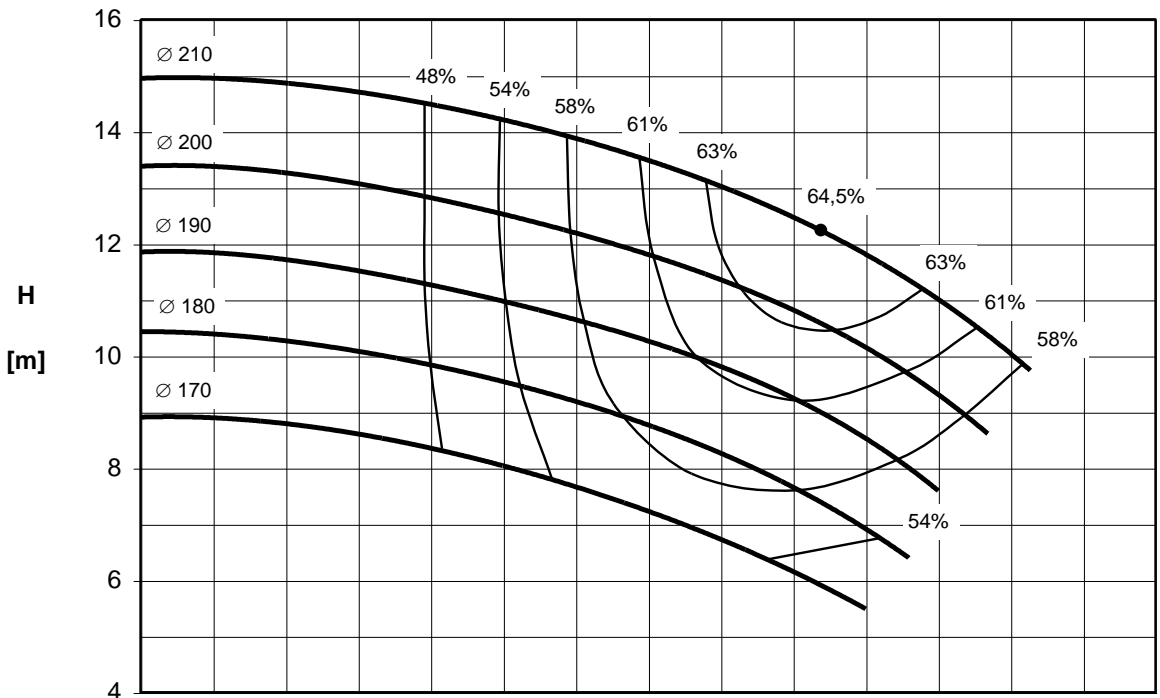
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| <b>SIHI<sup>SuperNova</sup> 040160</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZHND</b> |  |  |  |  |  |  |  |



1 m<sup>3</sup>/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

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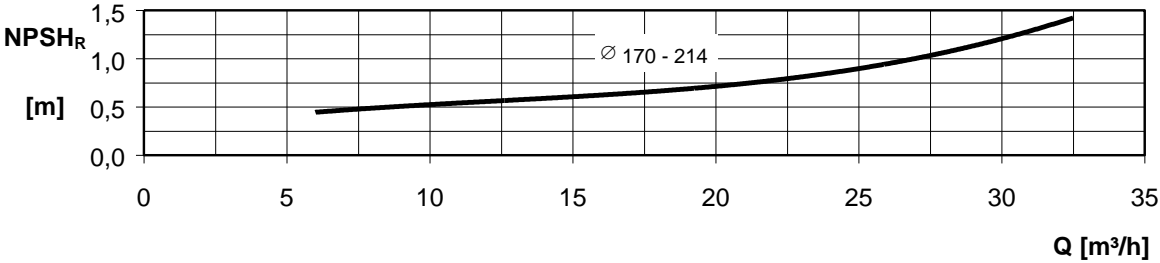
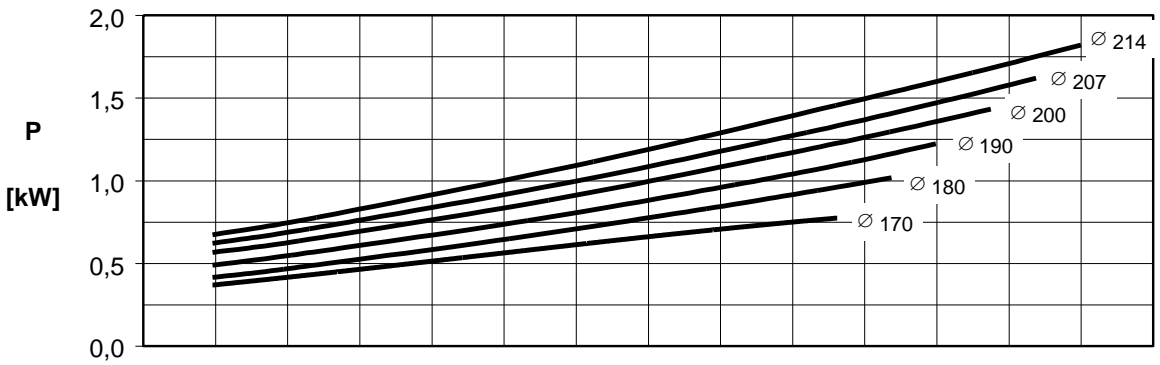
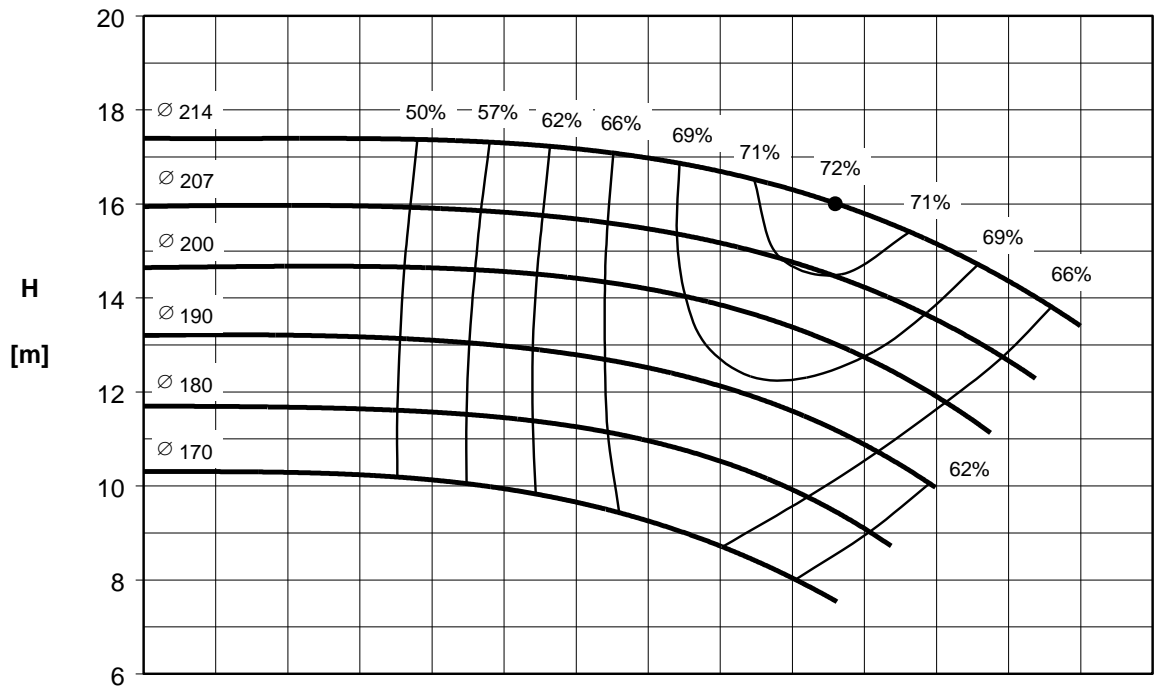
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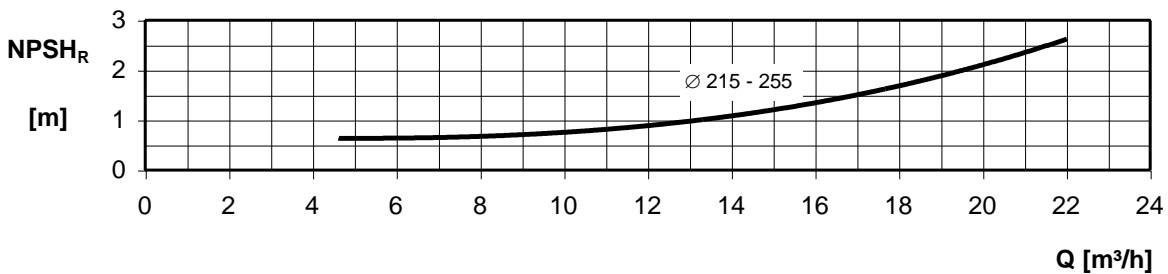
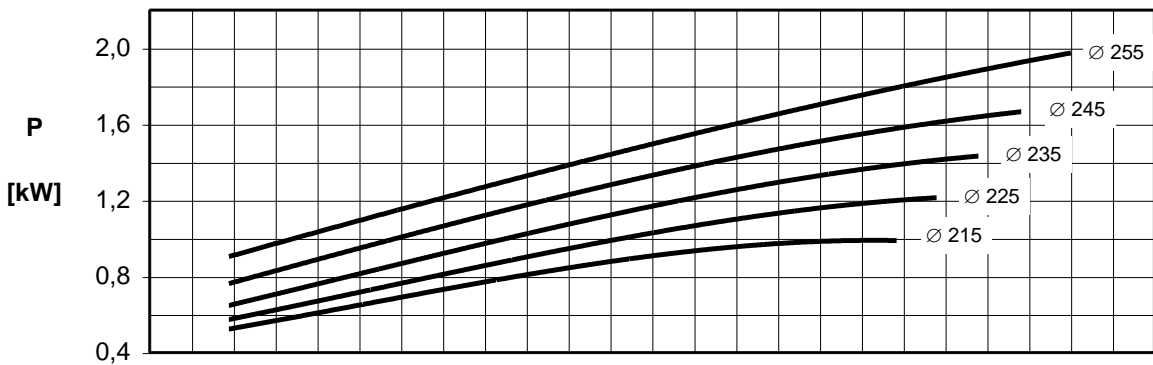
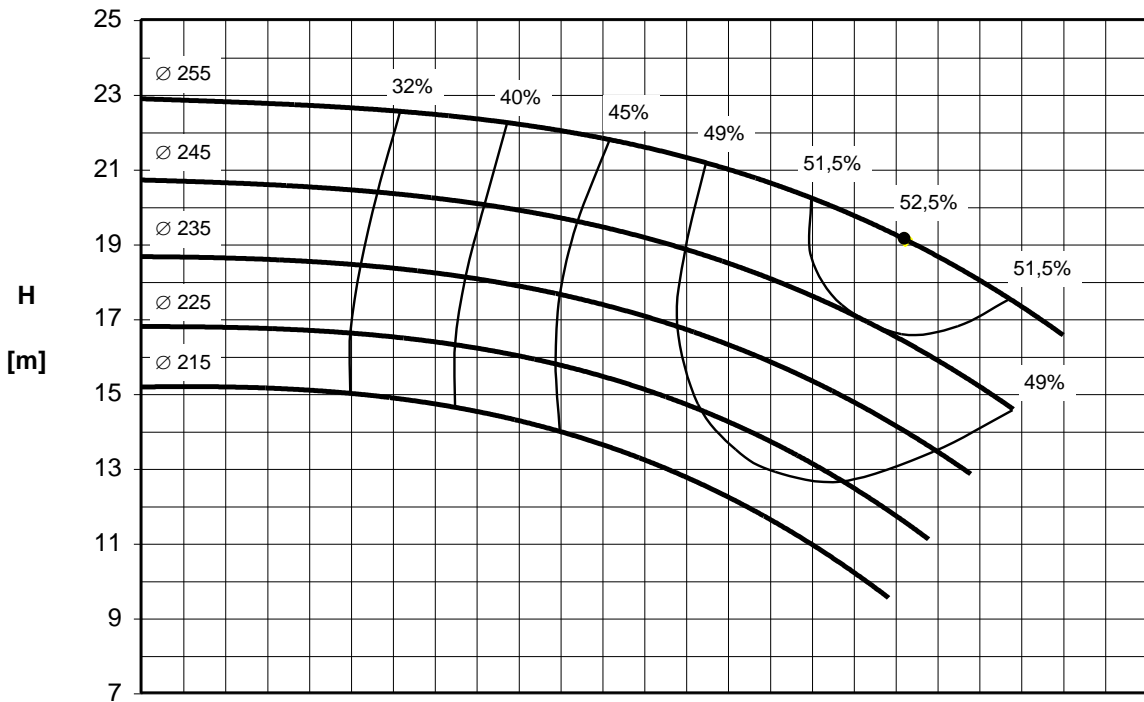
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| <b>SIHI<sup>SuperNova</sup> 040200</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZHND</b> |  |  |  |  |  |  |  |



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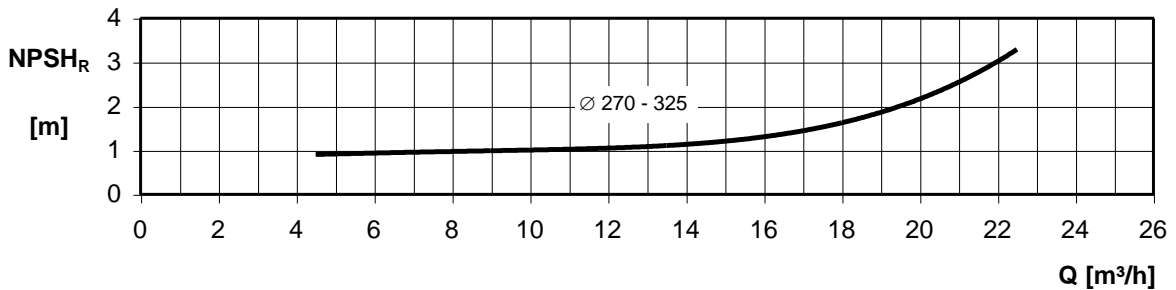
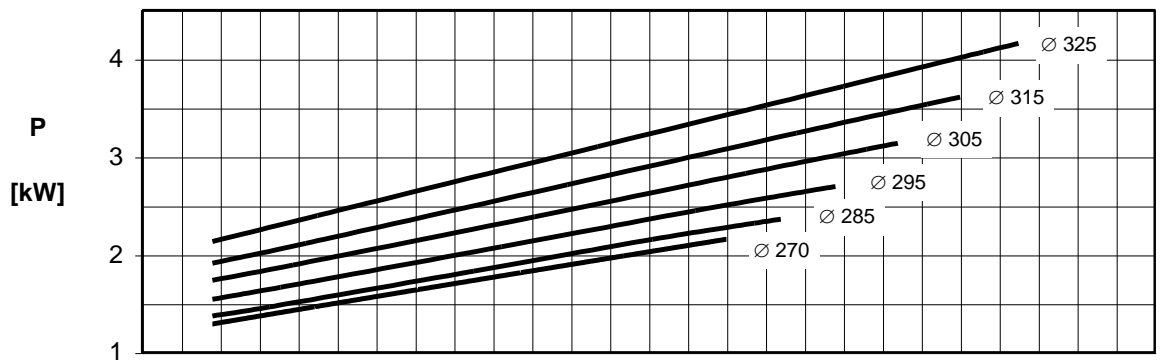
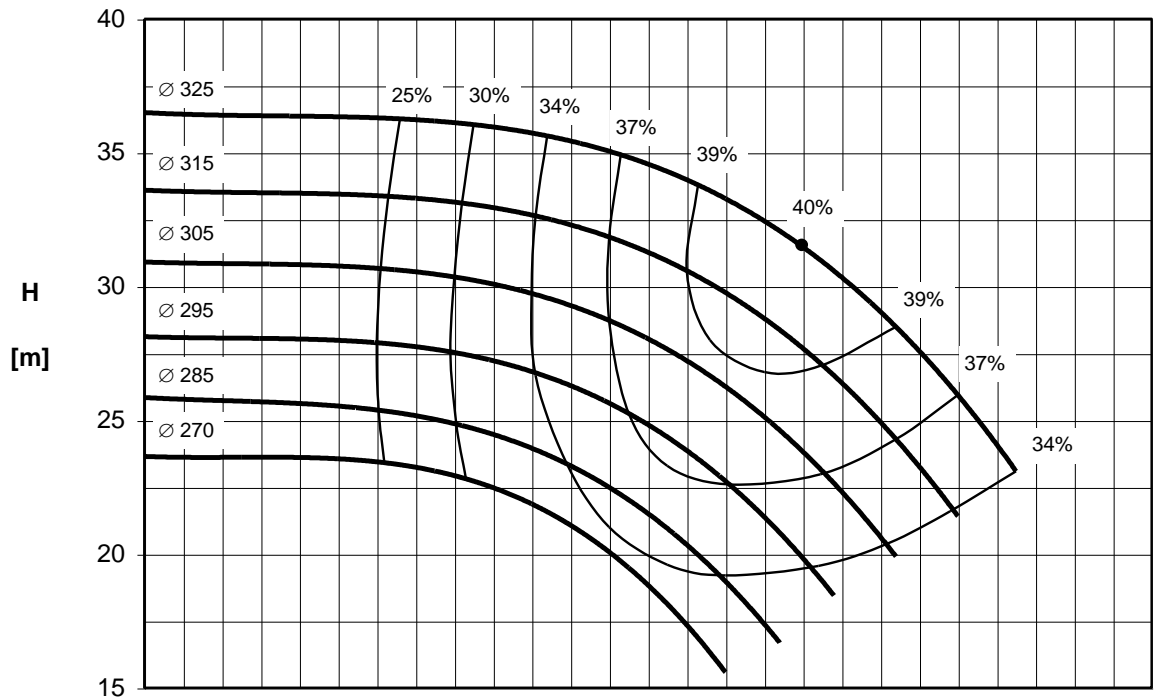
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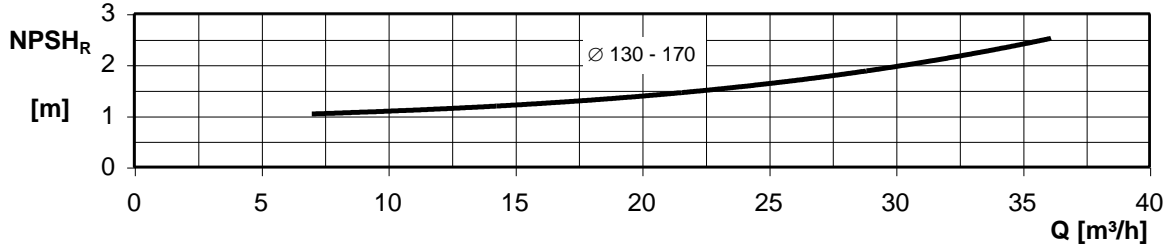
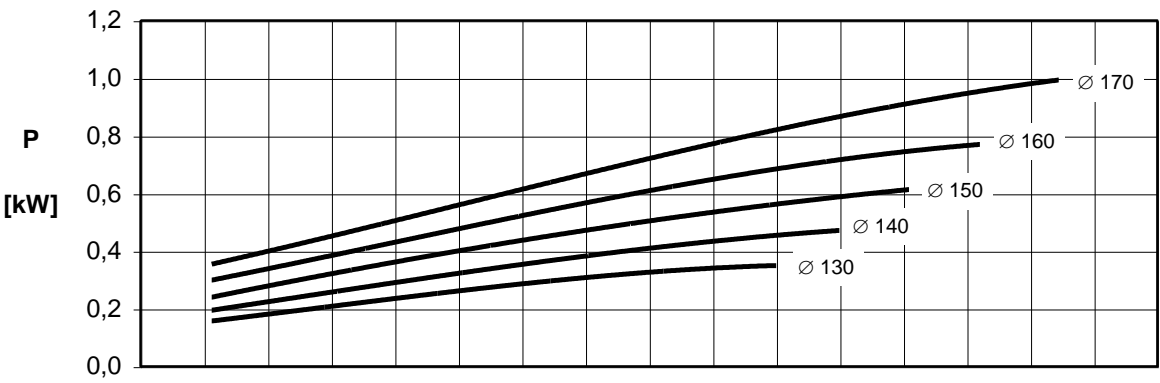
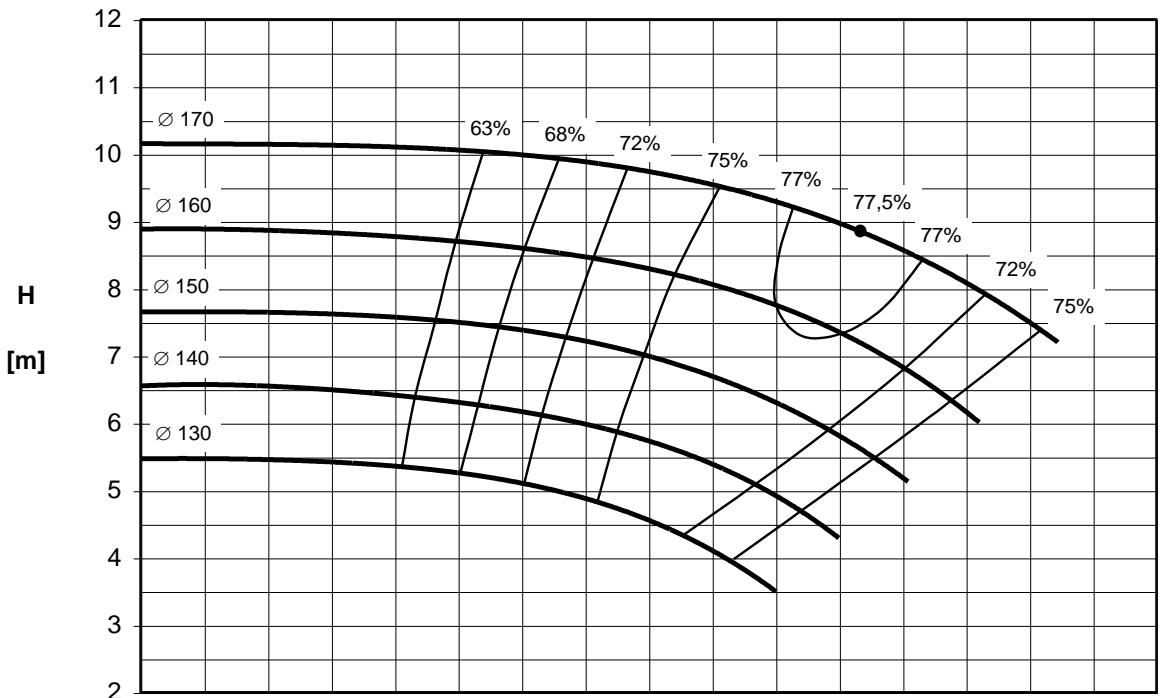
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| SIHI <sup>SuperNova</sup> 040315 |      |      | Nenn Drehzahl / nominal speed<br>1450 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |  |
| Baureihe / series                | ZEND | ZDND |   |  |  |  |   |  |  |



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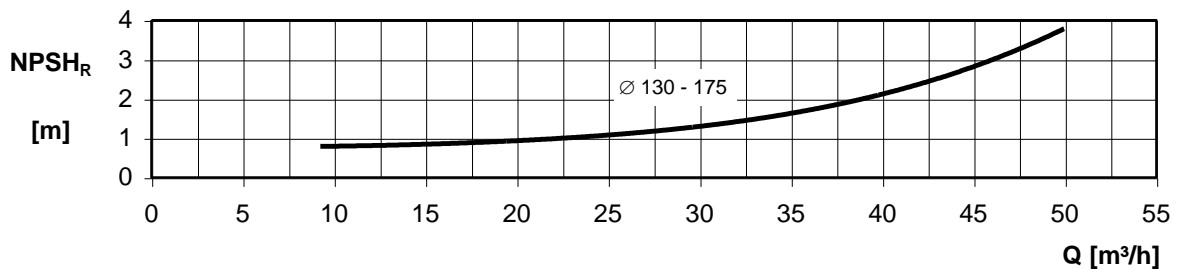
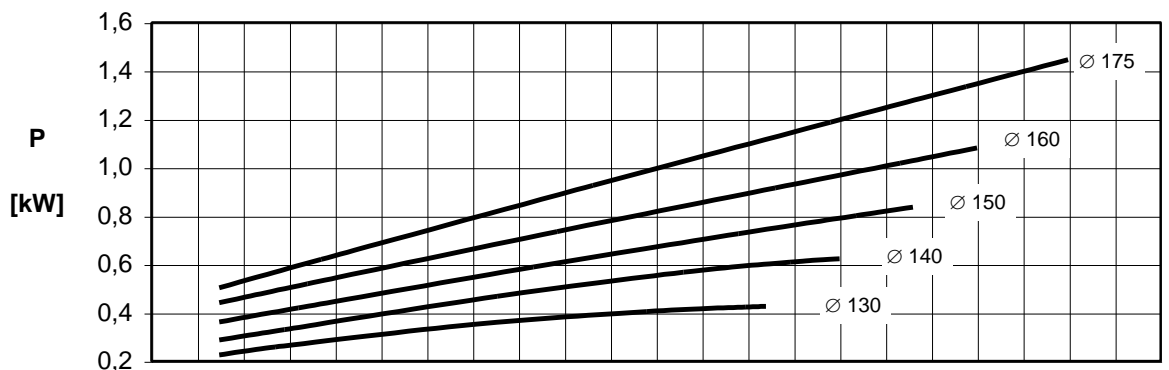
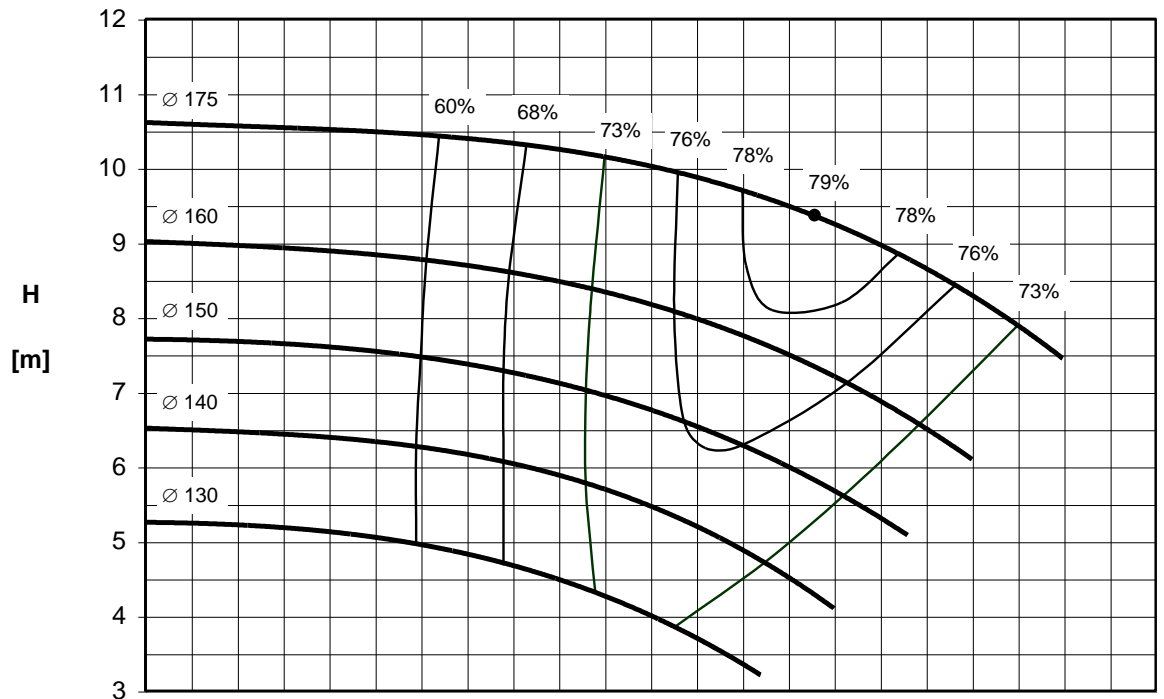
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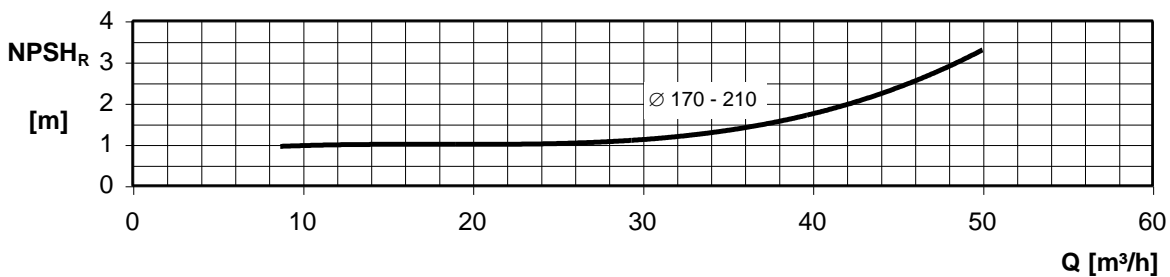
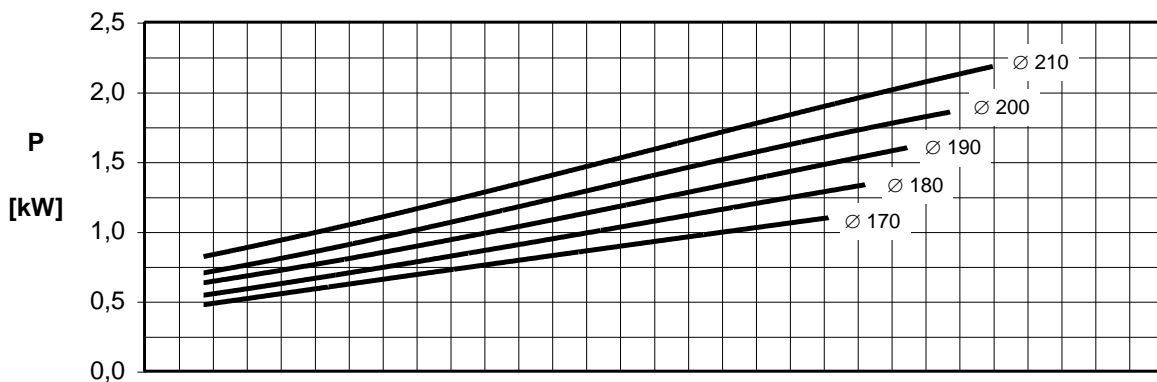
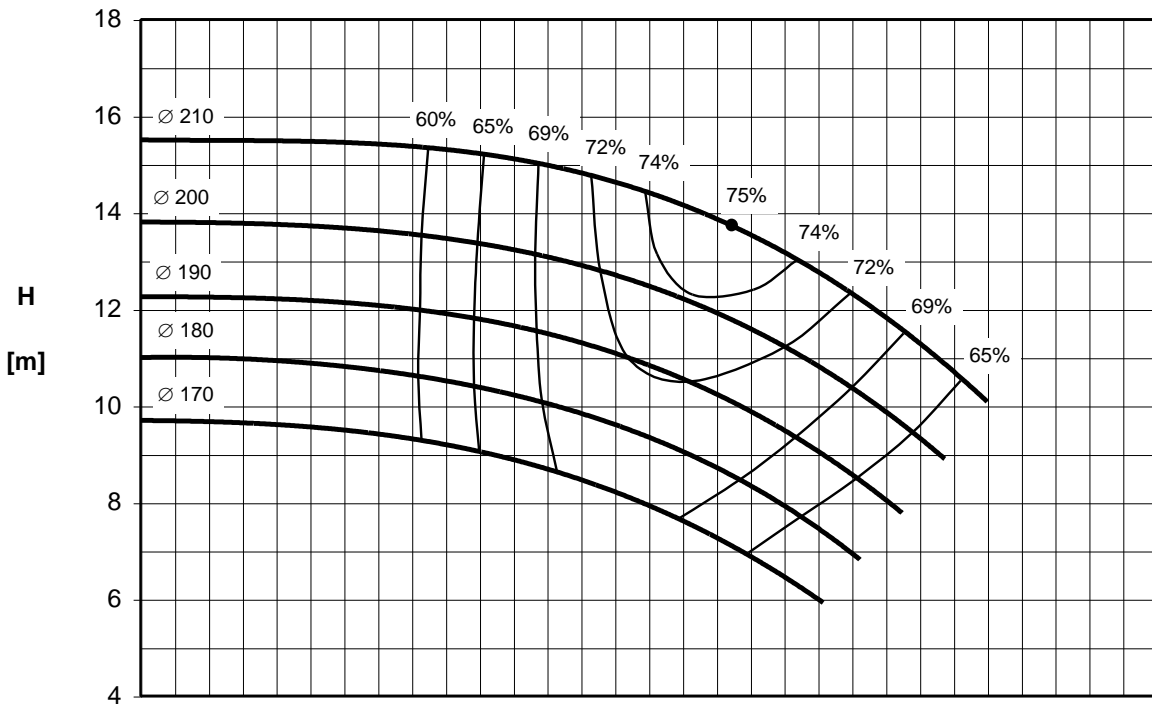
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| <b>SIHI<sup>SuperNova</sup> 050160</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZHND</b> |  |  |  |  |  |  |  |



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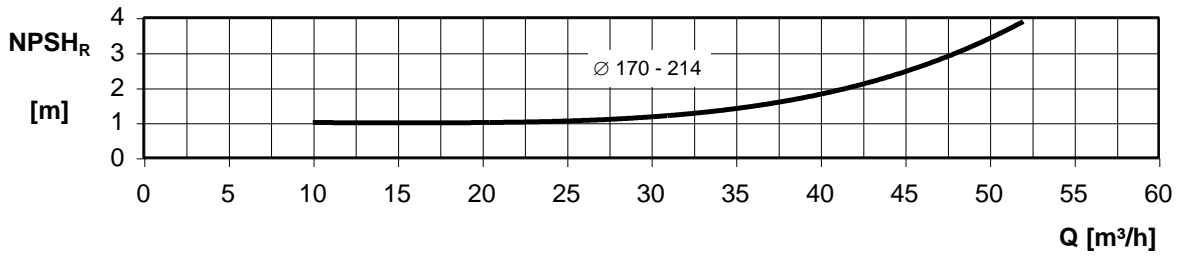
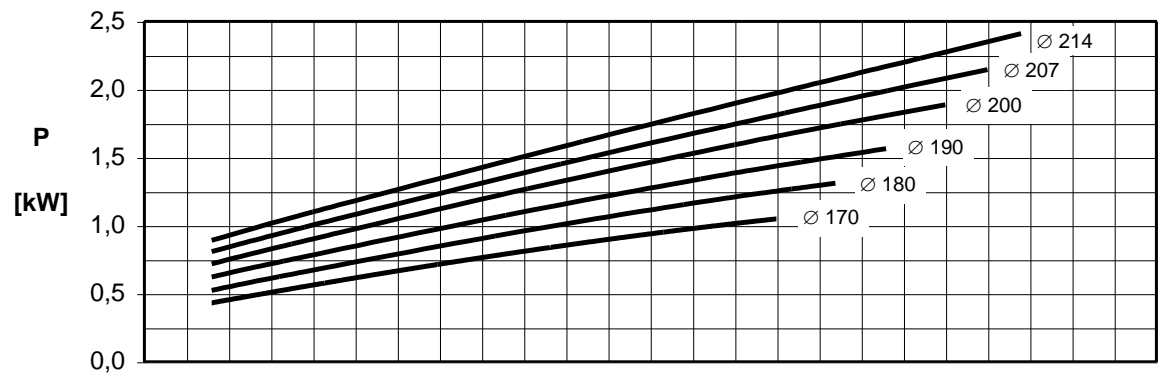
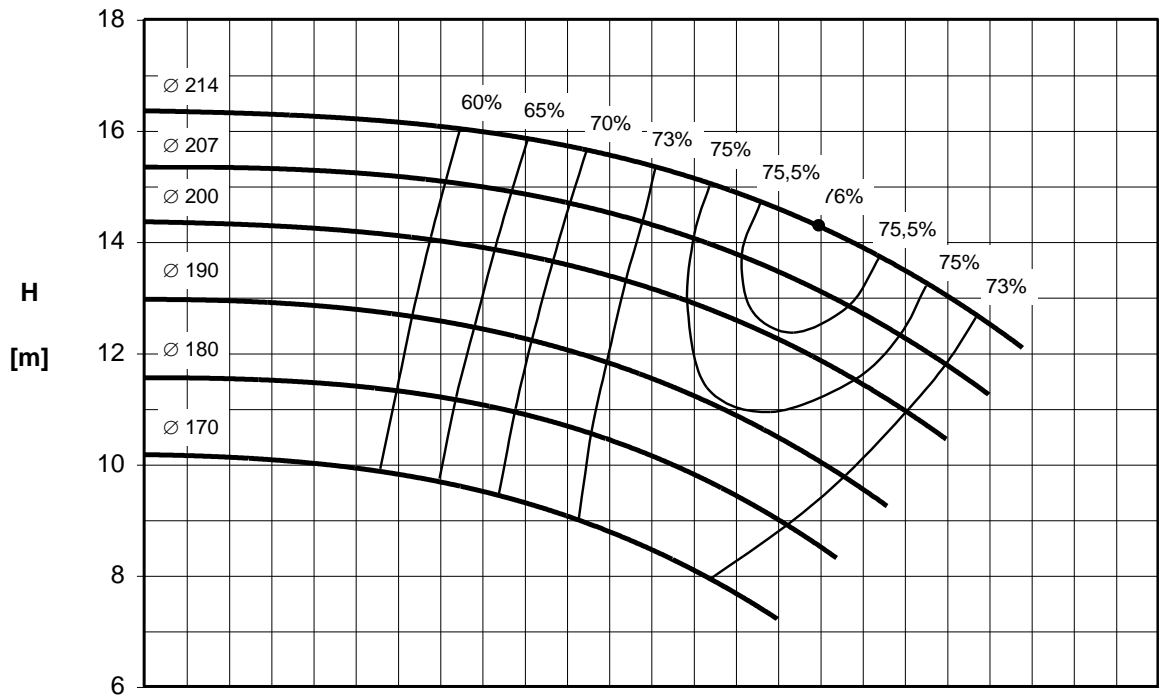


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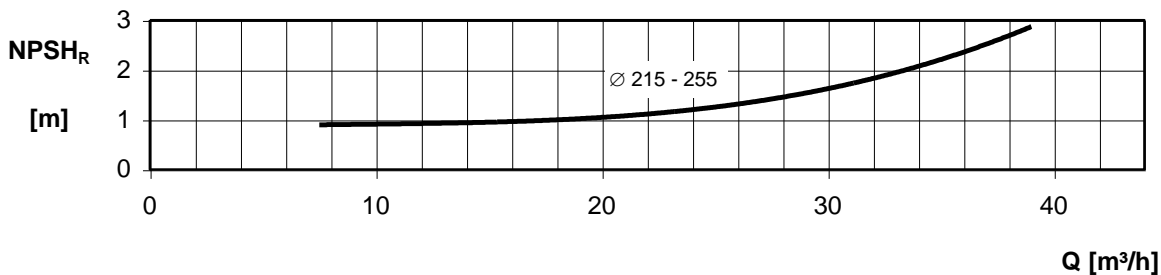
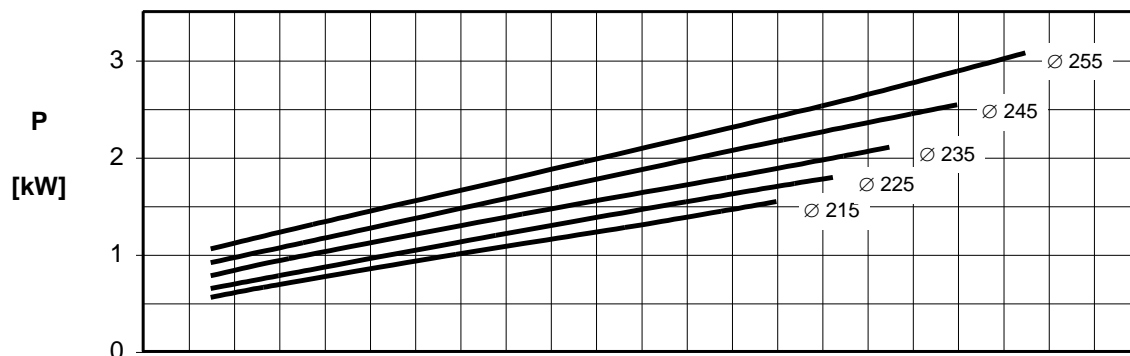
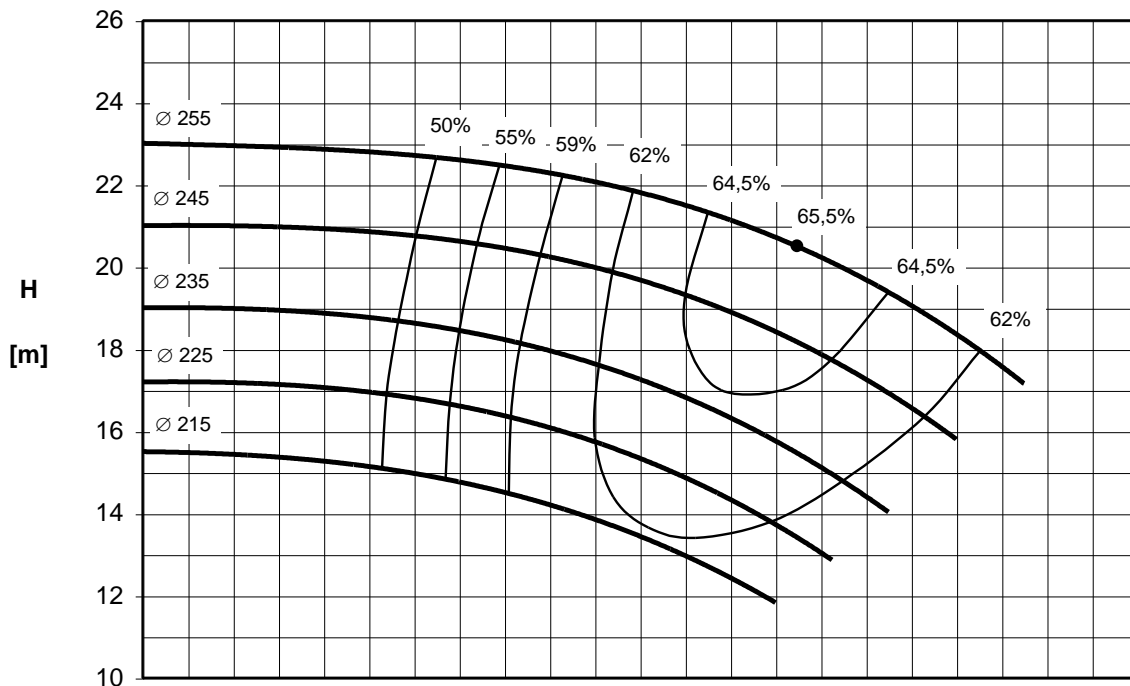
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| <b>SIHI<sup>SuperNova</sup> 050200</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZHND</b> |  |  |  |  |  |  |  |



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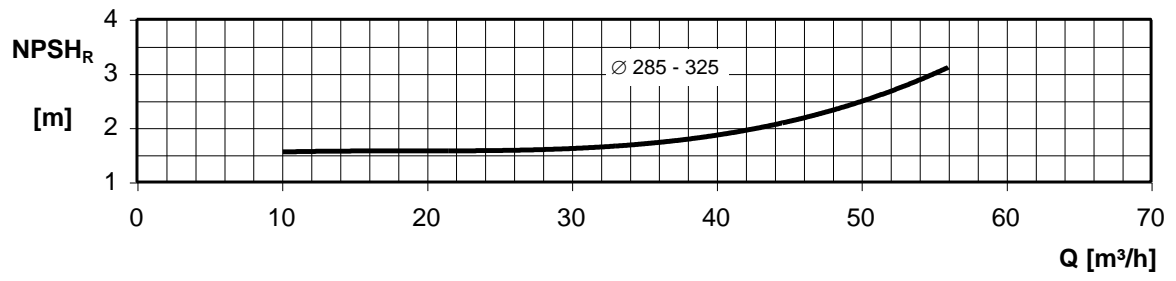
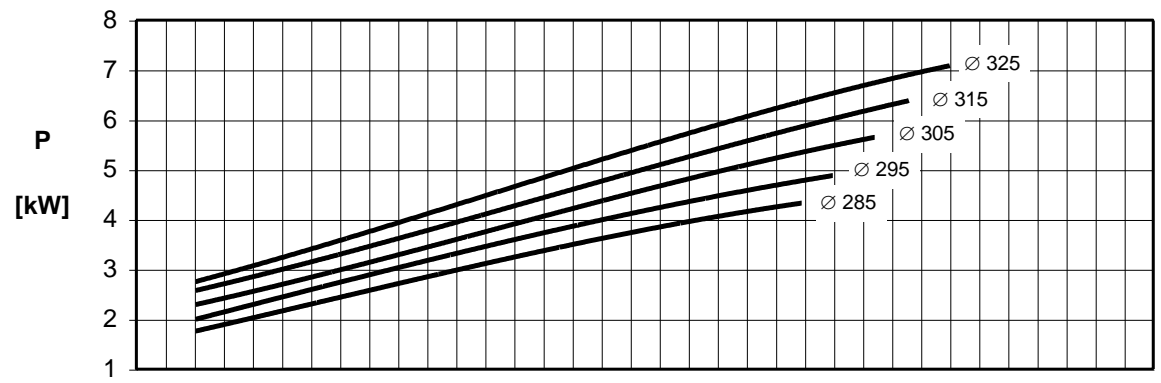
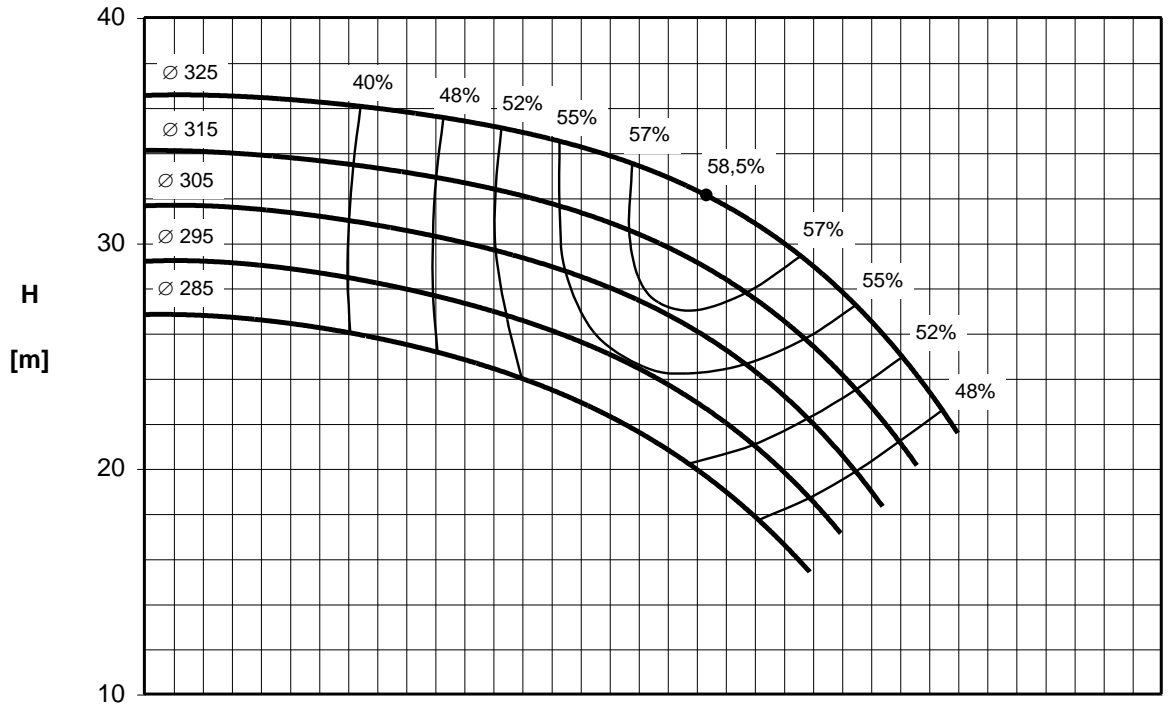
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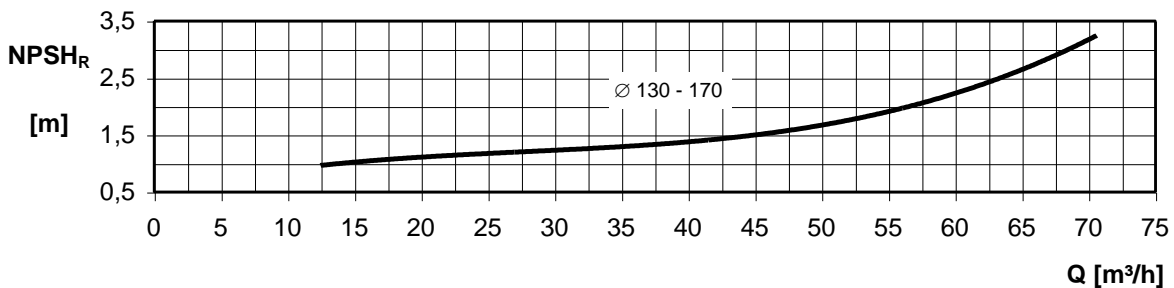
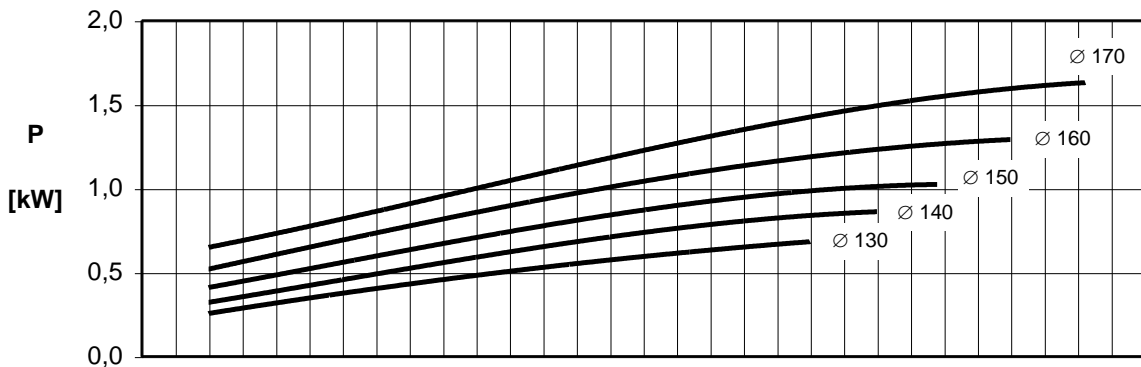
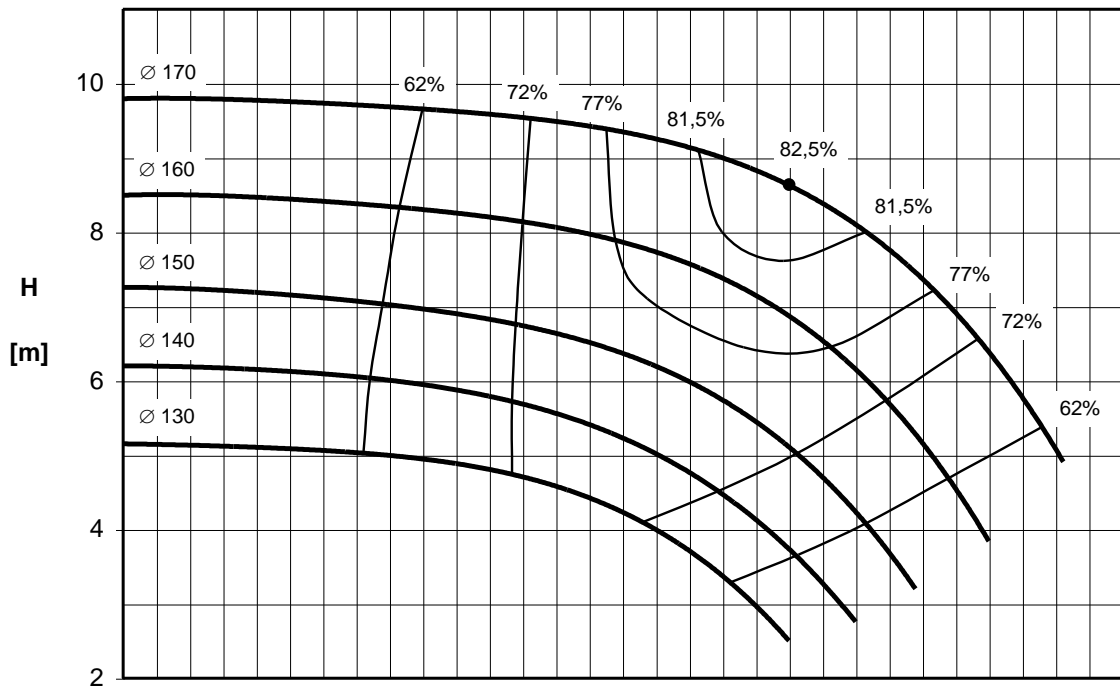
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| Baureihe / series                | ZEND | ZDND |   |  |  |  |   |  |  |



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 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



1 m<sup>3</sup>/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

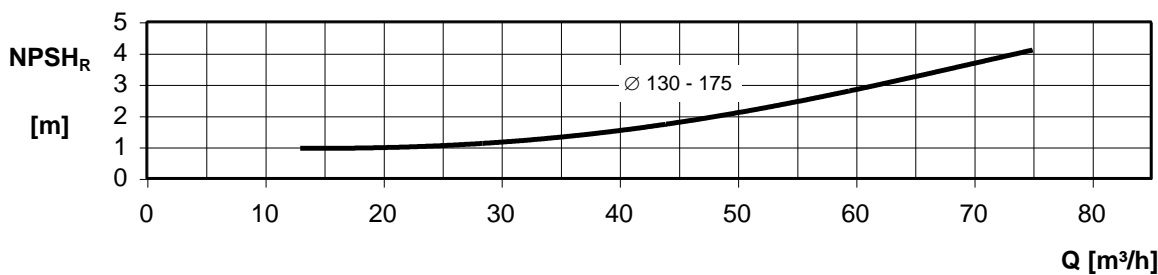
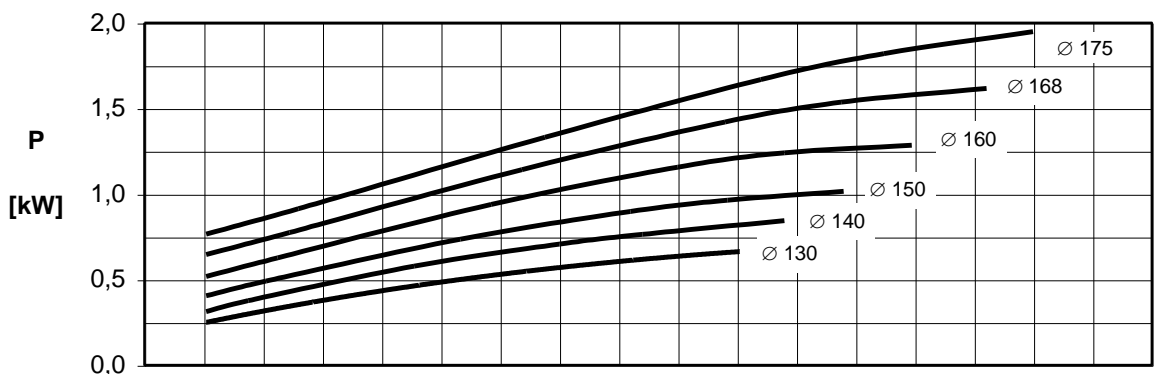
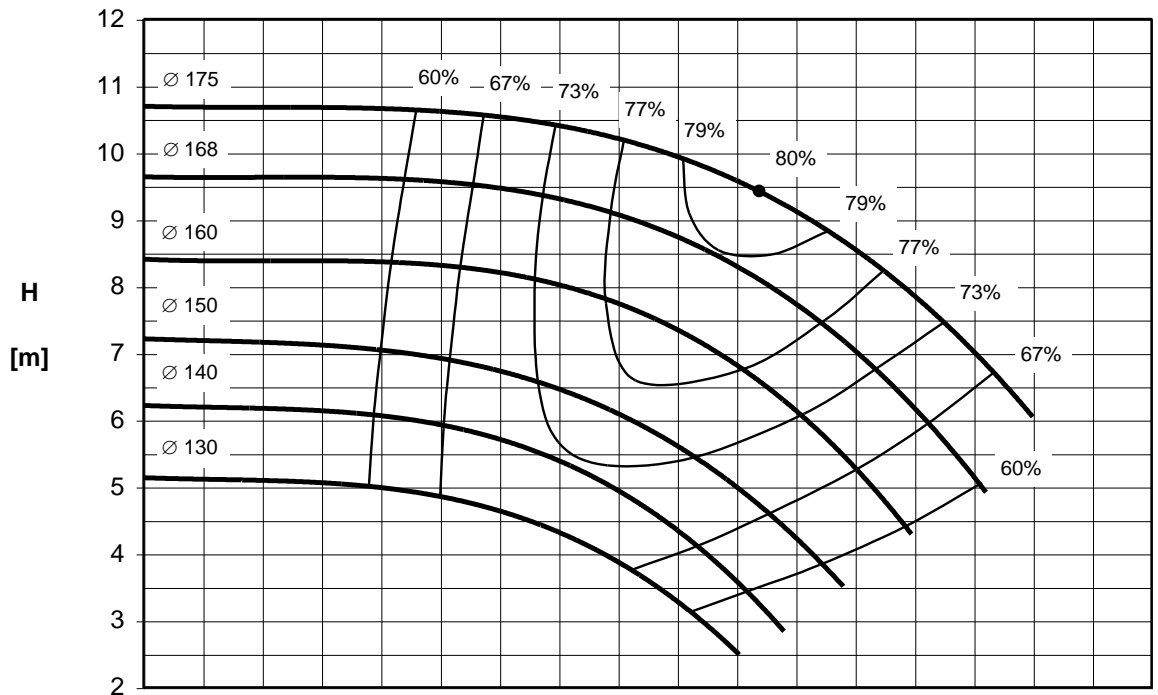
**Bitte beachten:**

Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
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**Please observe:**

Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
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 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive

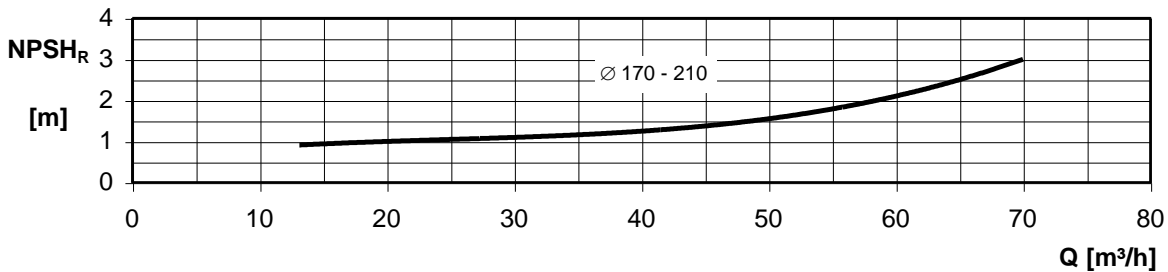
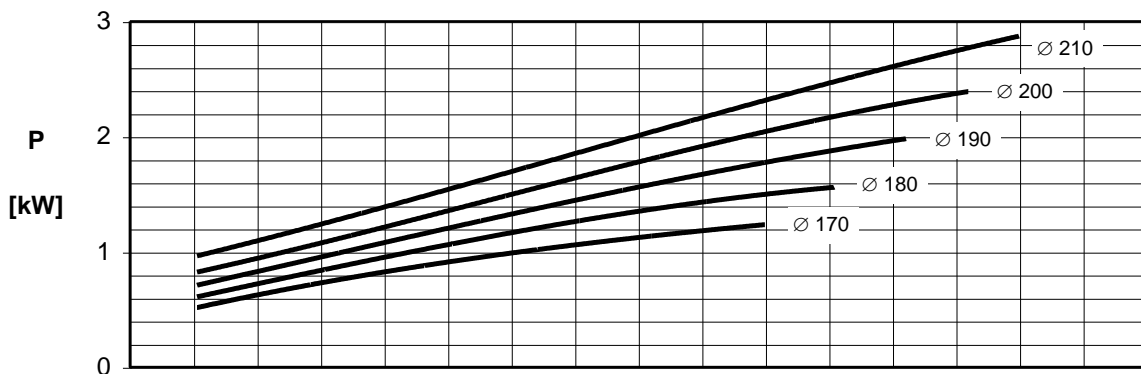
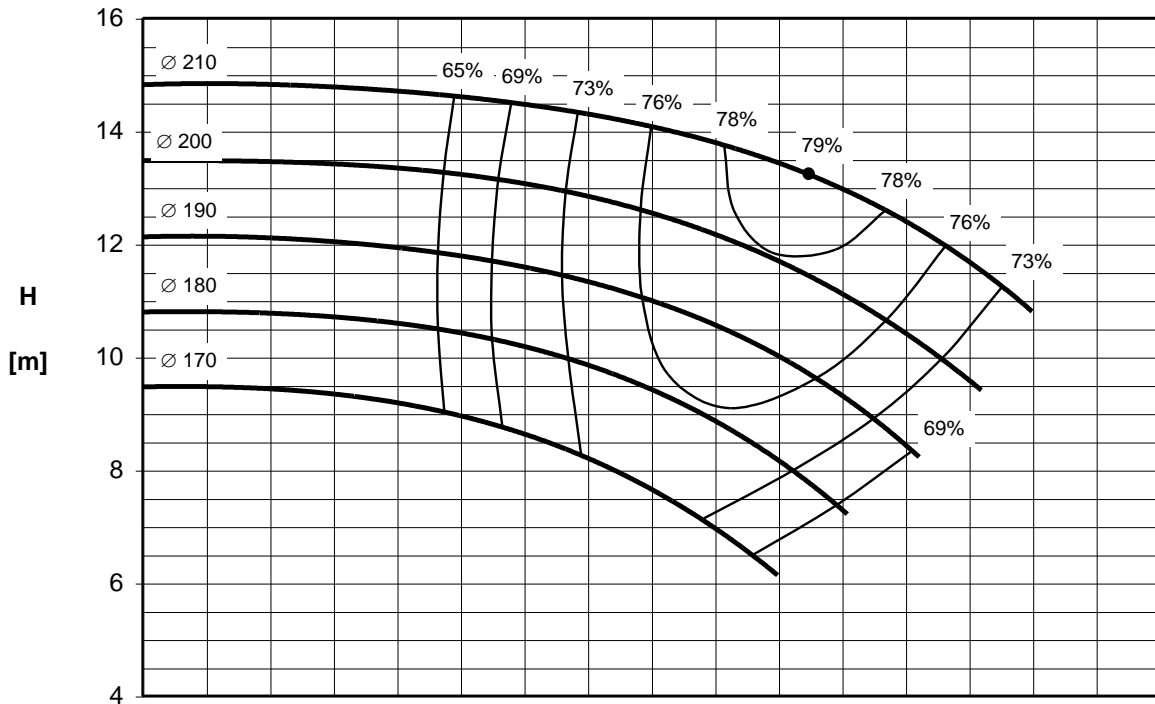
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| <b>SIHI<sup>SuperNova</sup> 065160</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |
| <b>Baureihe / series</b>               | <b>ZHND</b> |  |  |  |  |  |  |



1 m³/h = 3,663 Imp g.p.m. / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



1 m<sup>3</sup>/h = 3,663 Imp g.p.m. / 4,405 US g.p.m.      1 m = 3,28 ft

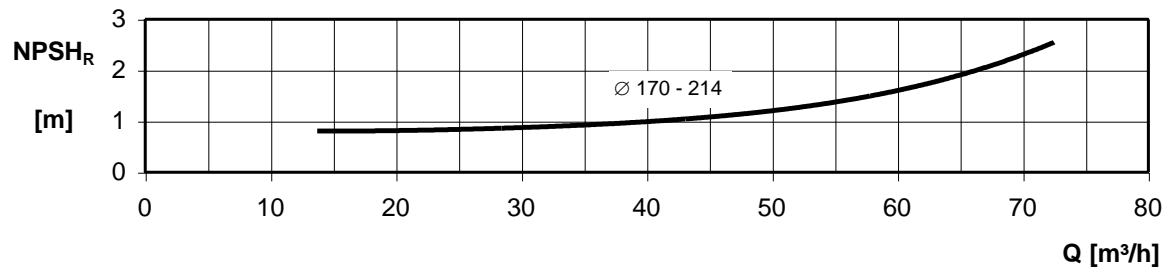
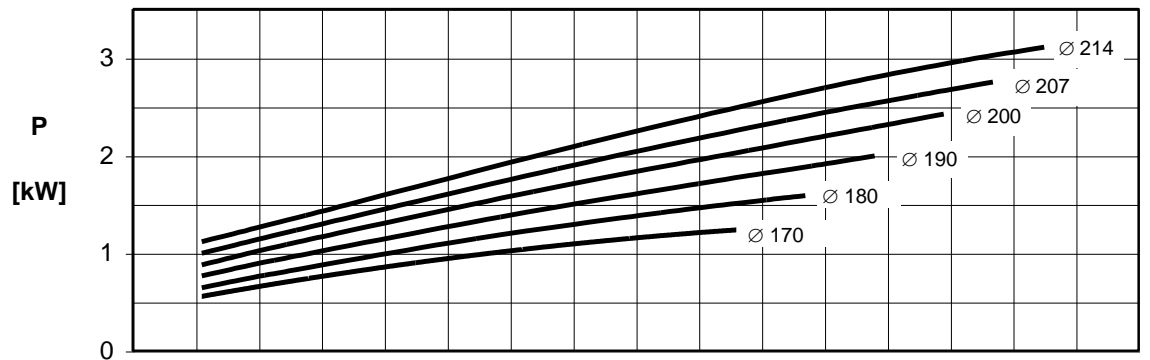
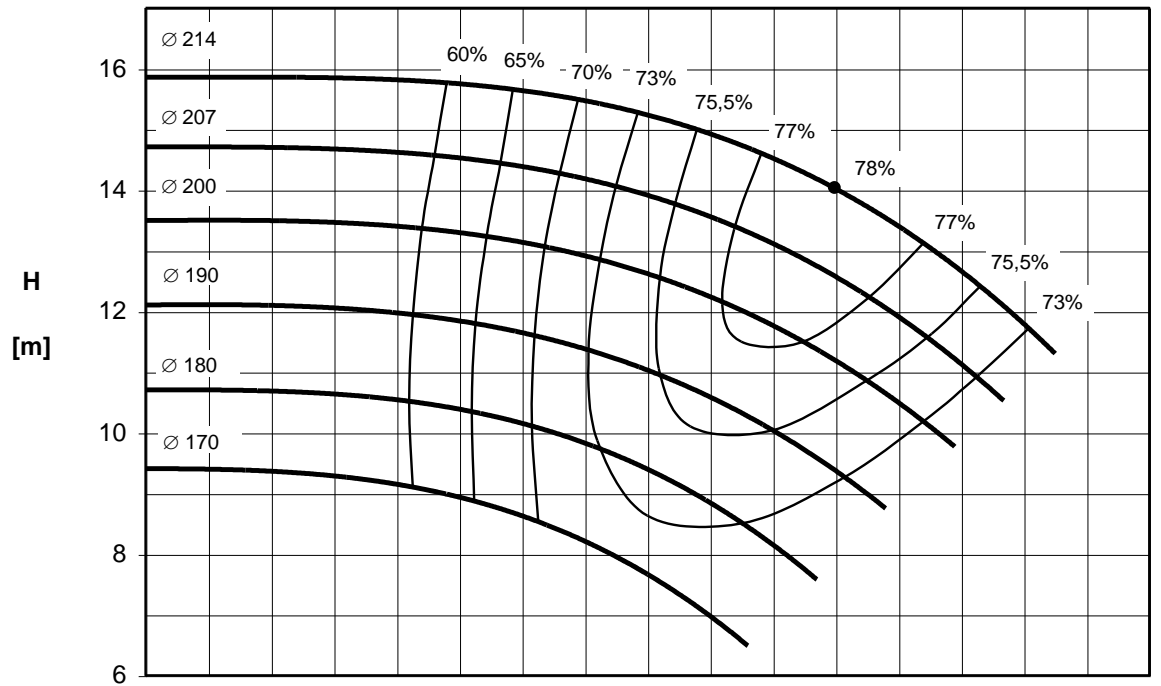
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 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:**

Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
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 Power consumption does not include Eddy Current Losses for pumps with magnetic drive

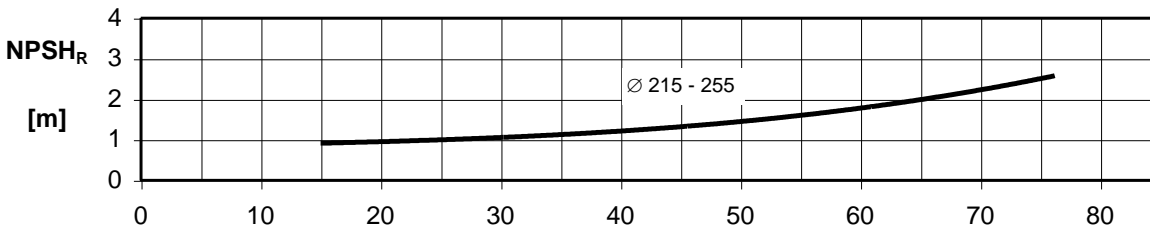
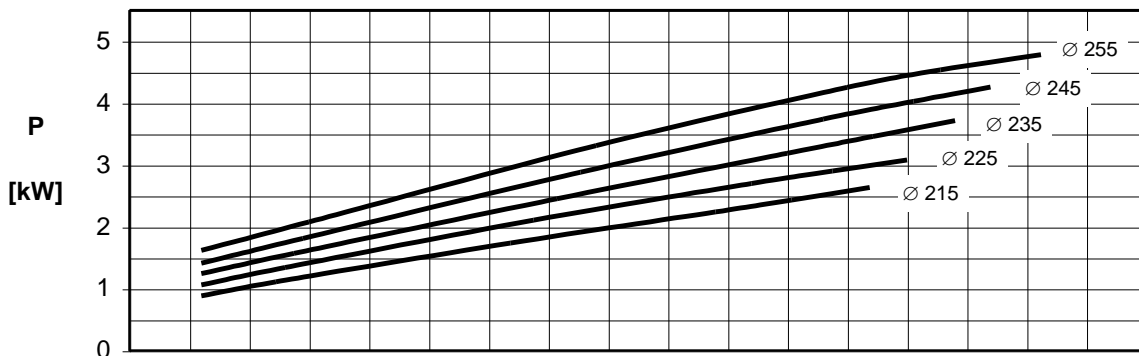
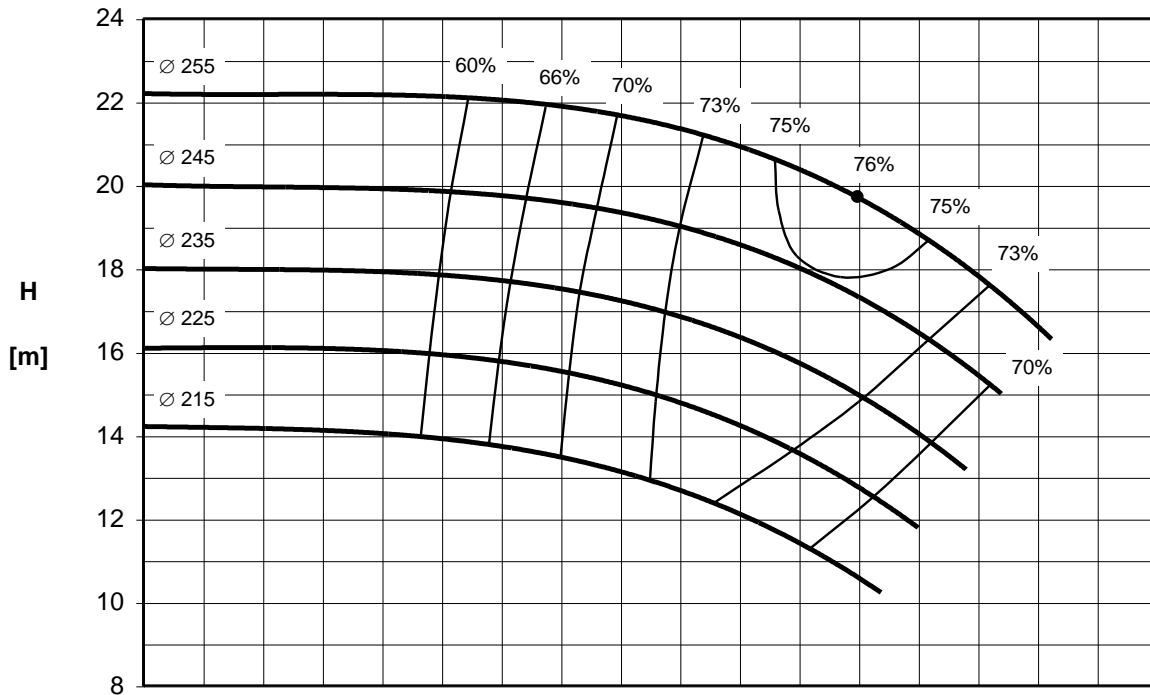
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| <b>SIHI<sup>SuperNova</sup> 065200</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZHND</b> |  |  |  |  |  |  |  |



1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
Power consumption does not include Eddy Current Losses for pumps with magnetic drive



Q [m³/h]


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

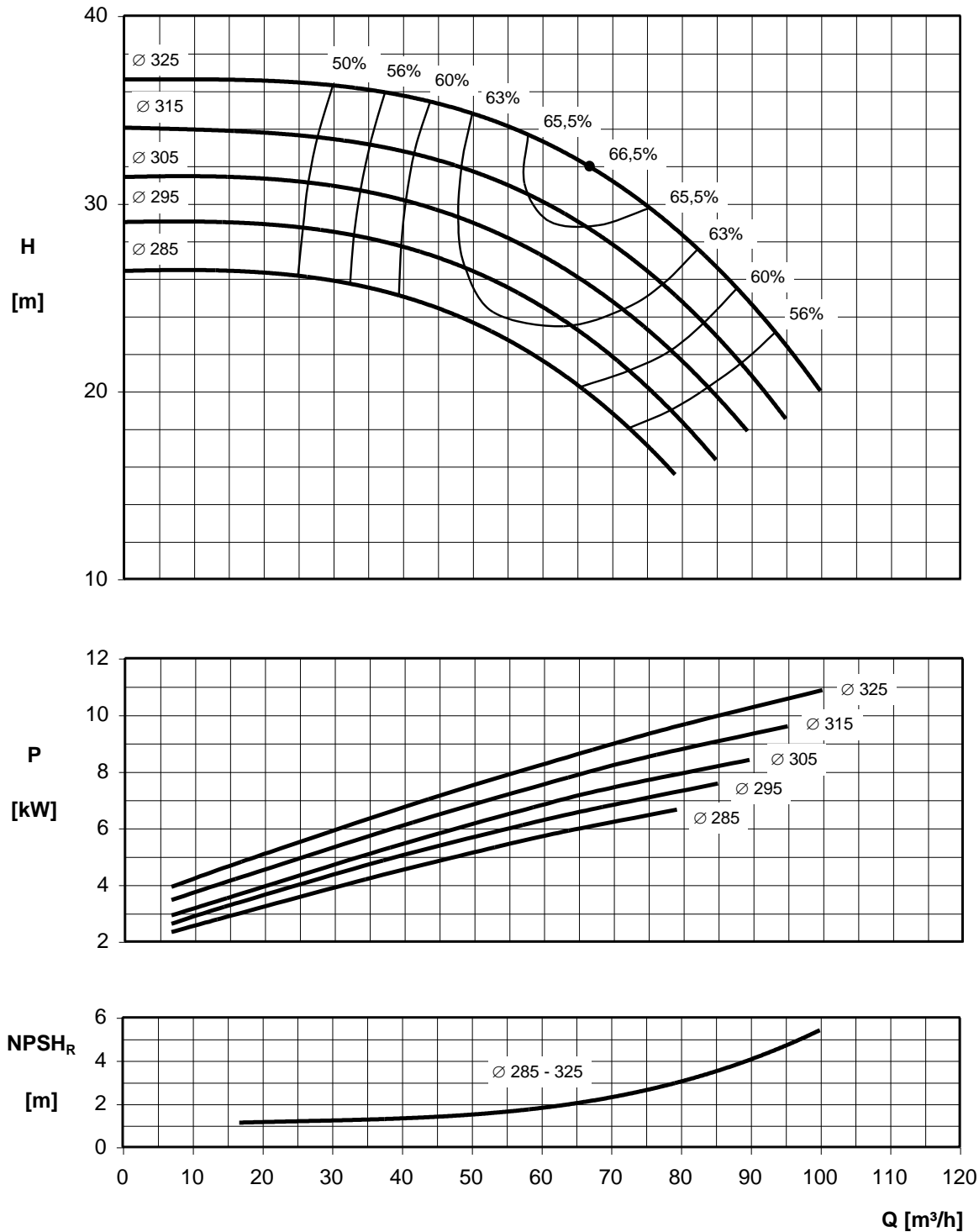
**Bitte beachten:**

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**Please observe:**

Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
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 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive

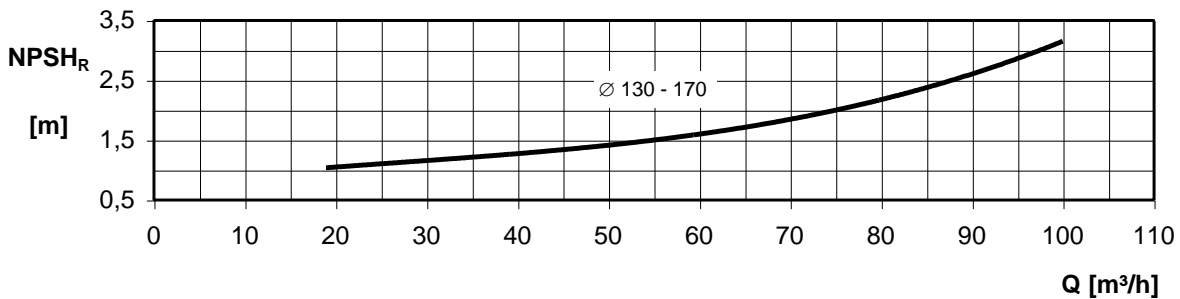
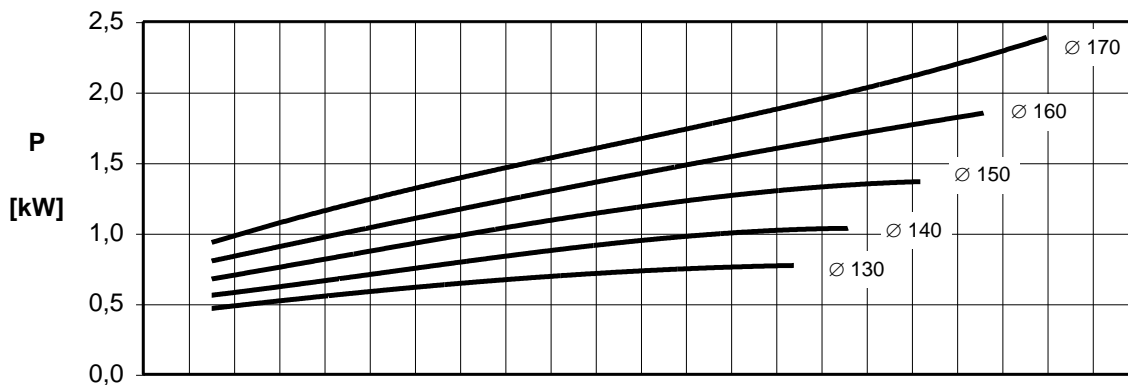
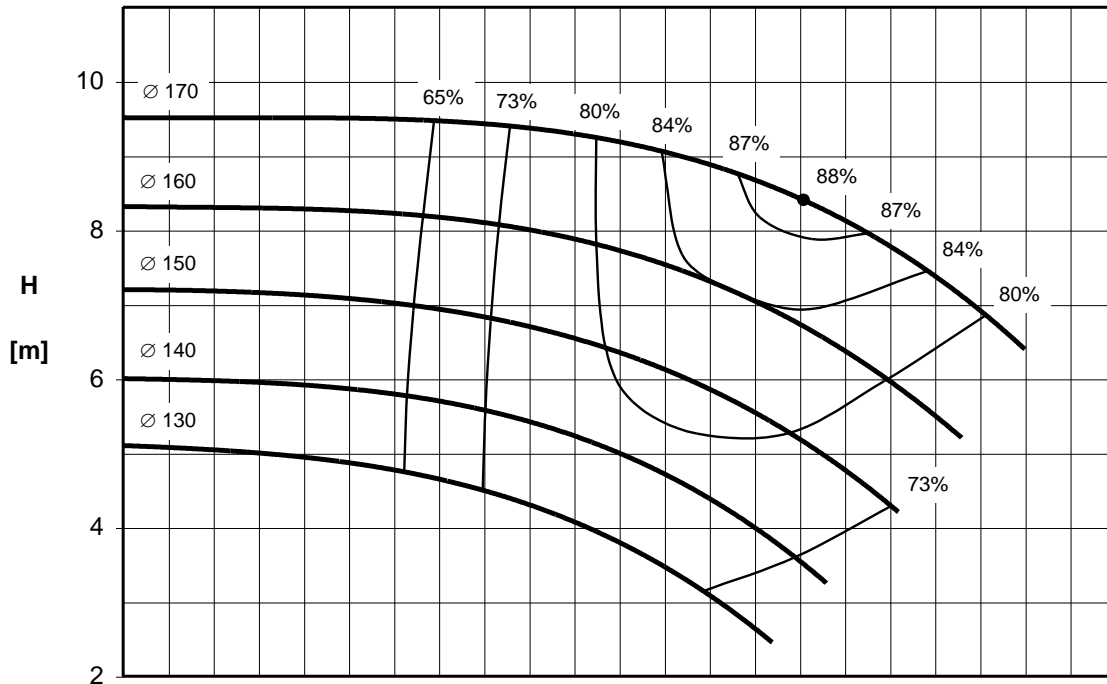
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| SIHI <i>SuperNova</i> 065315 |      | Nenn Drehzahl / nominal speed<br>1450 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |
| Baureihe / series            | ZEND |   |  |  |  |   |  |



1 m³/h = 3,663 Imp g.p.m. / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



1 m<sup>3</sup>/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft


**Bitte beachten:**

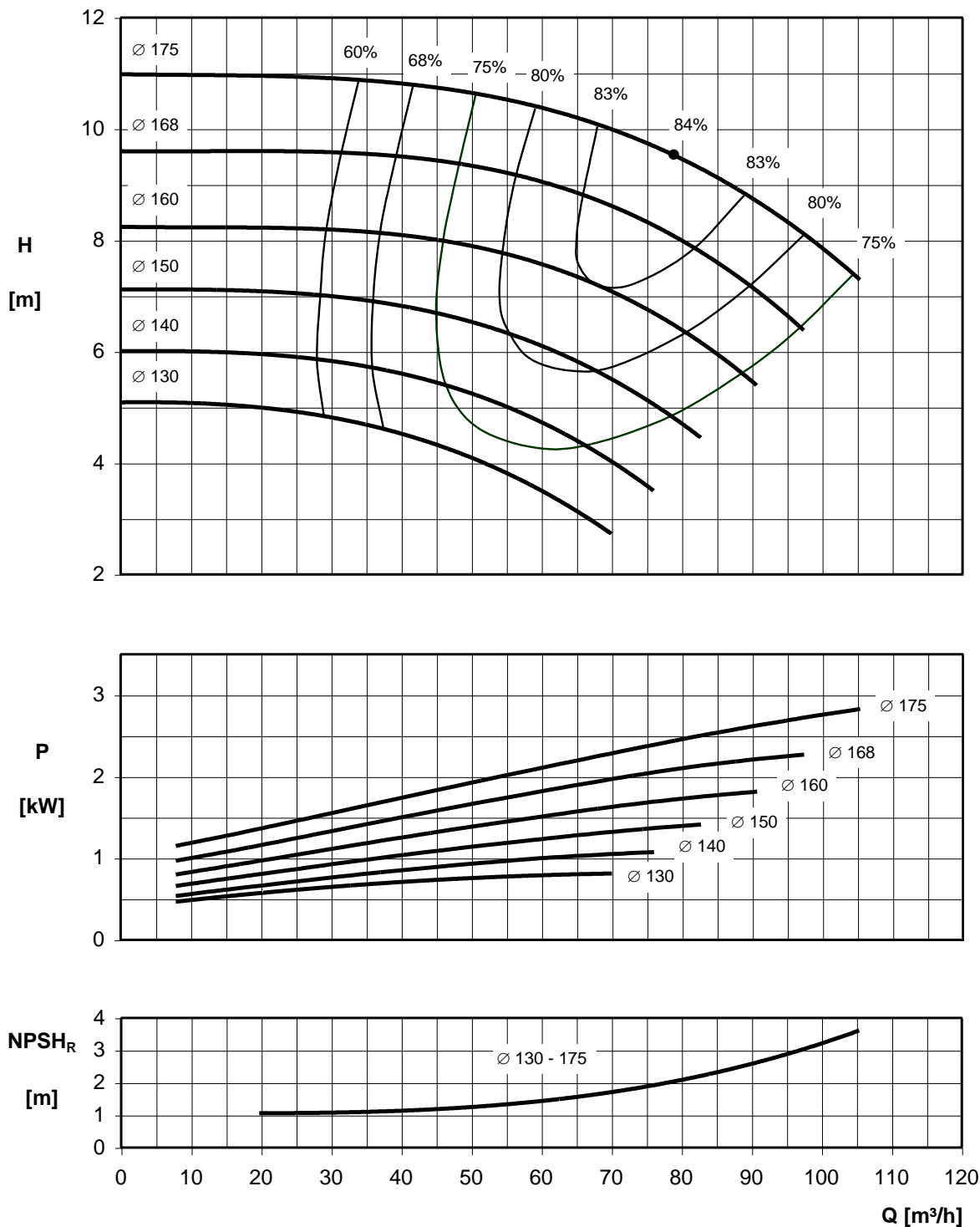
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 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:**

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 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



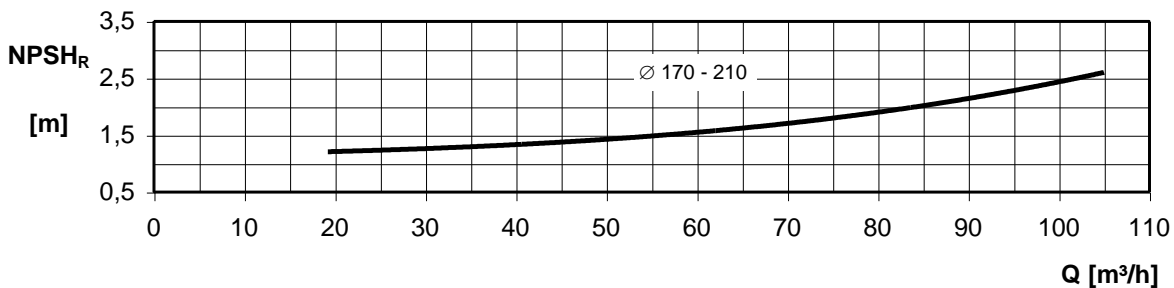
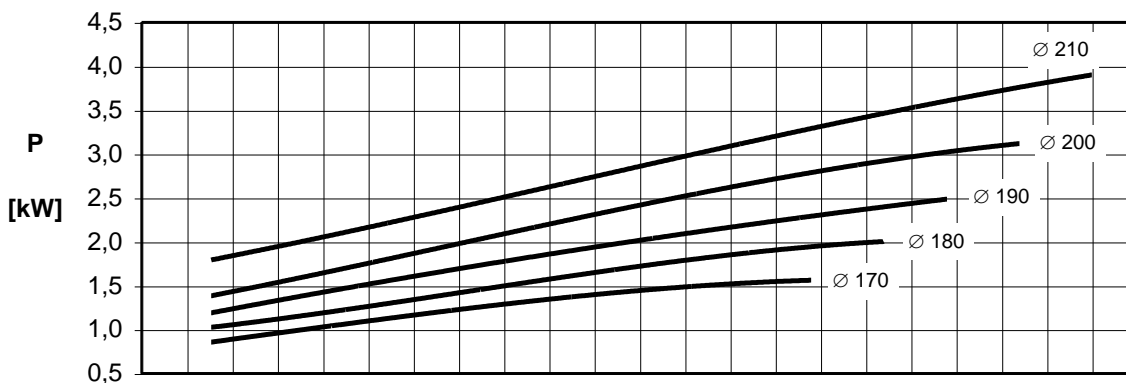
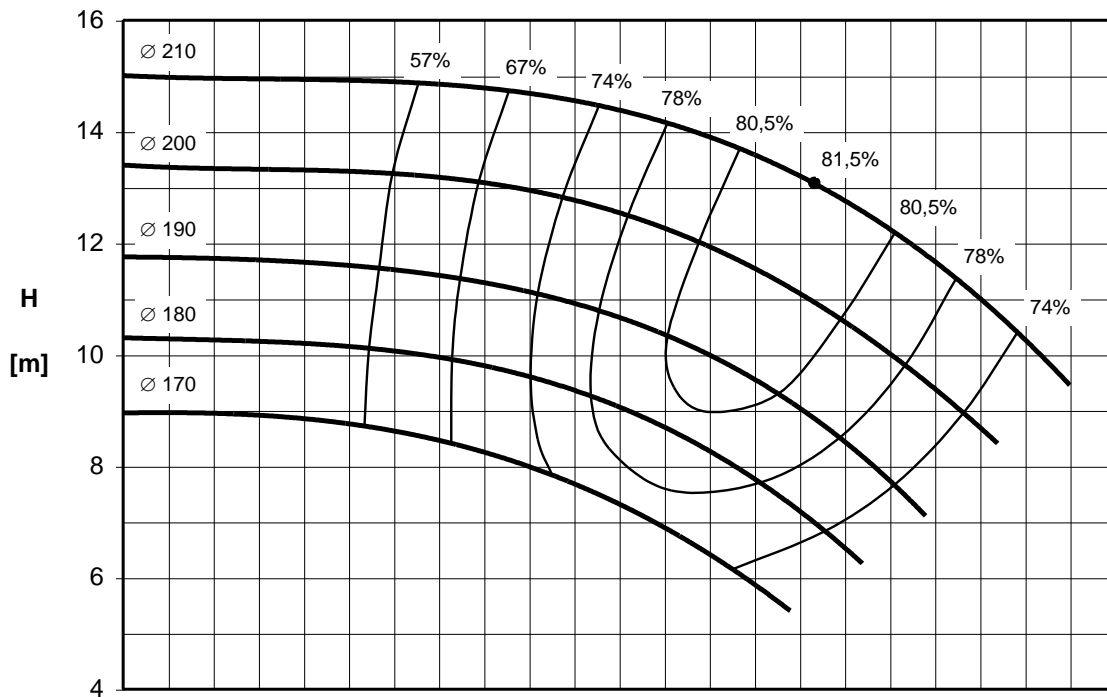
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|------------------------------|------|---|--|--|--|---|--|
| SIHI <i>SuperNova</i> 080160 |      | Nenn Drehzahl / nominal speed<br>1450 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |
| Baureihe / series            | ZHND |   |  |  |  |   |  |



1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
Power consumption does not include Eddy Current Losses for pumps with magnetic drive




1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

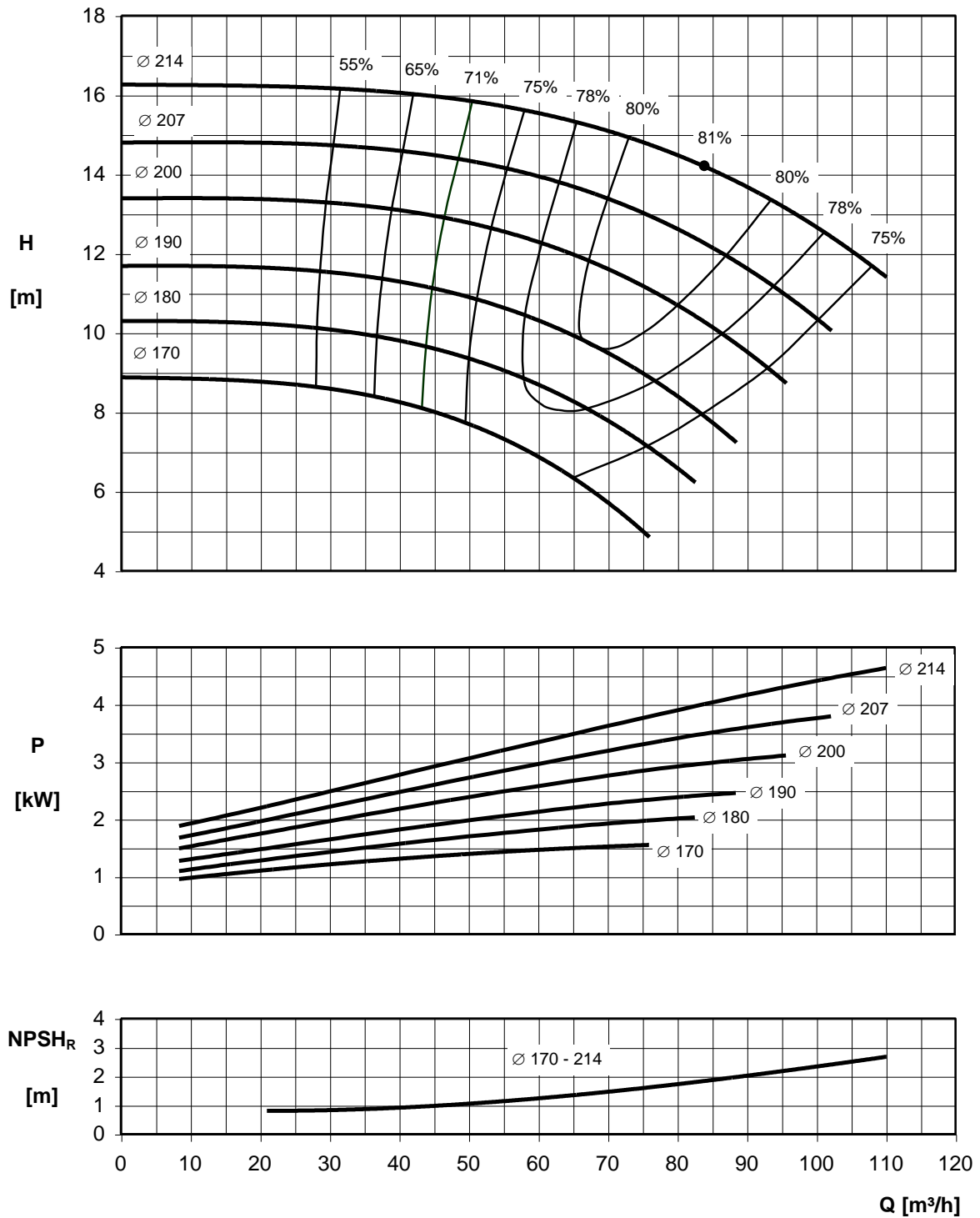
**Bitte beachten:**

Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
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 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
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**Please observe:**

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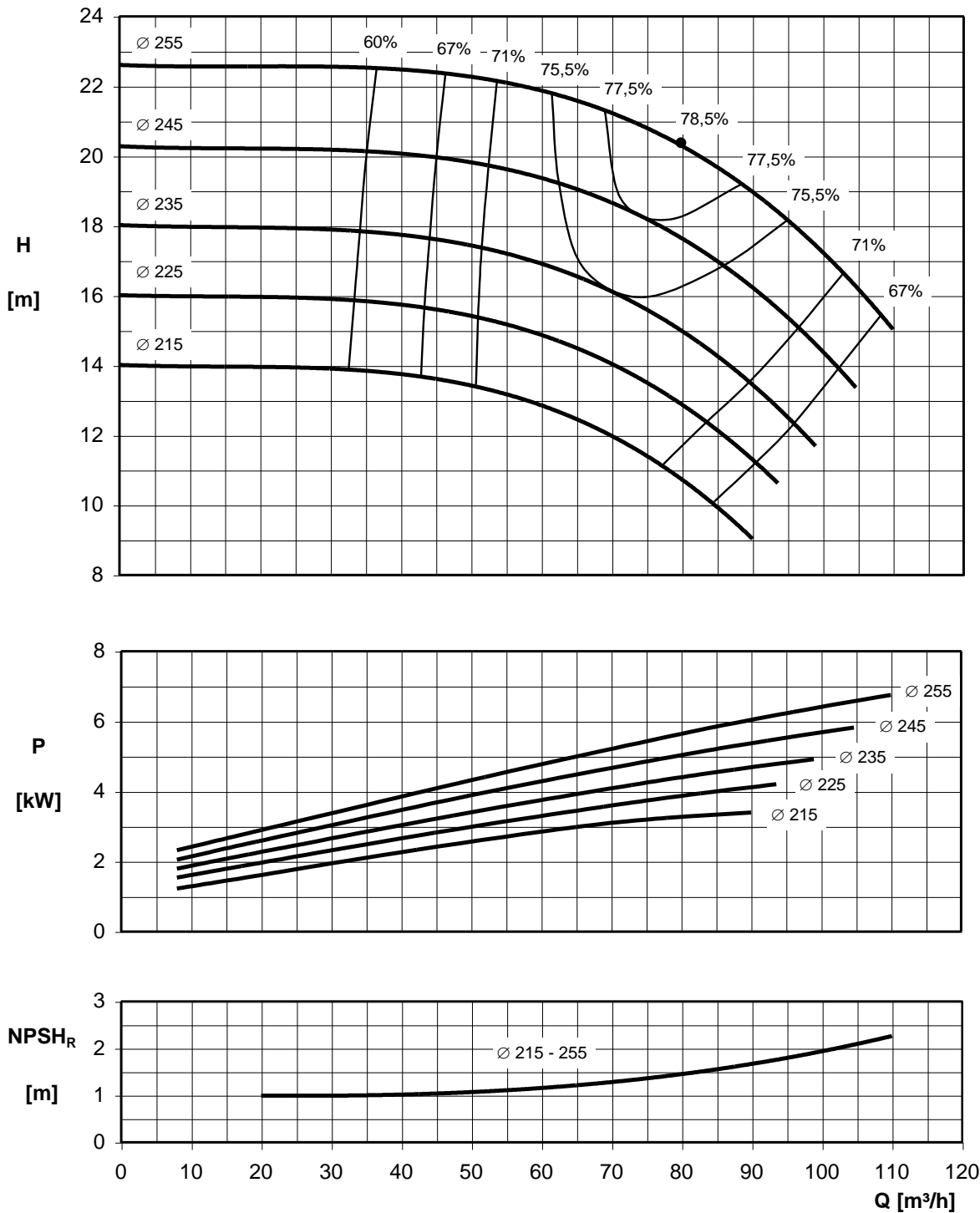
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| SIHI <i>SuperNova</i> 080200 |      | Nenn Drehzahl / nominal speed<br>1450 min <sup>-1</sup> |  |  |  | <br><small>SIHI Pumps</small> |  |
| Baureihe / series            | ZHND |   |  |  |  |  |  |



1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
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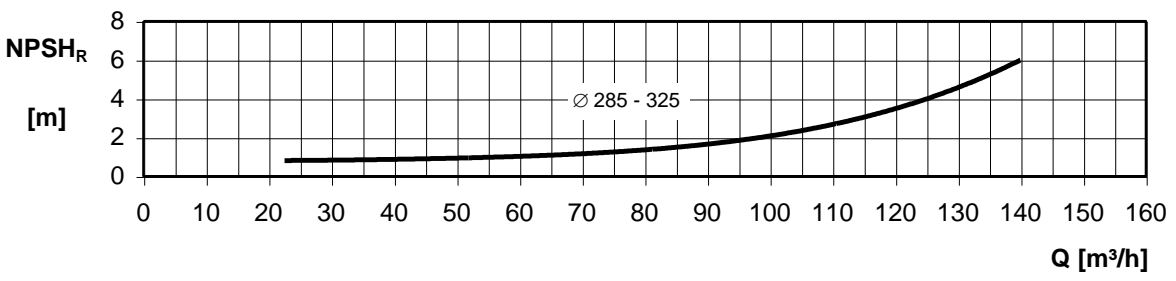
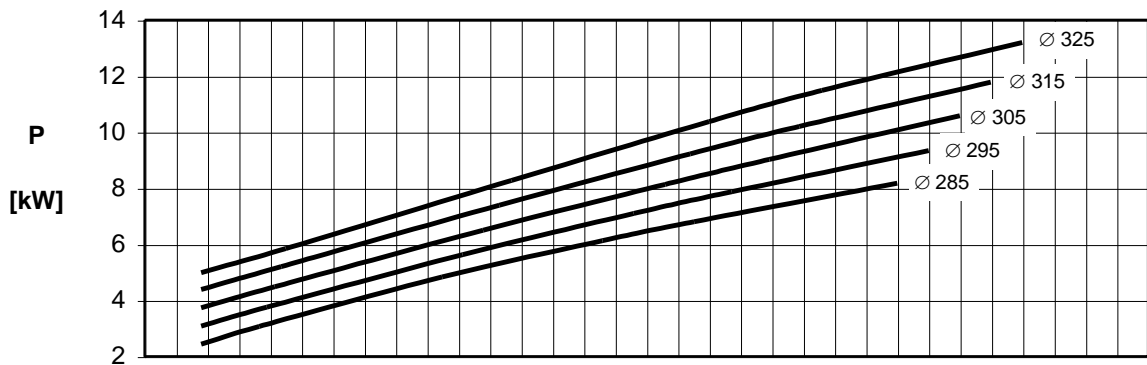
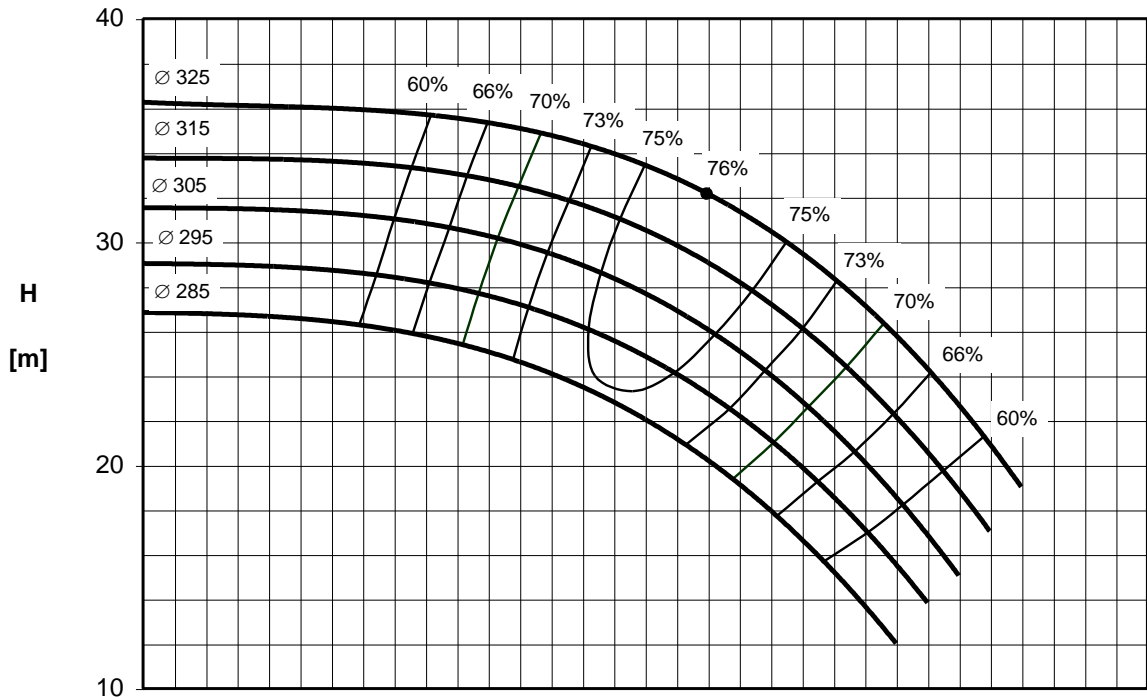
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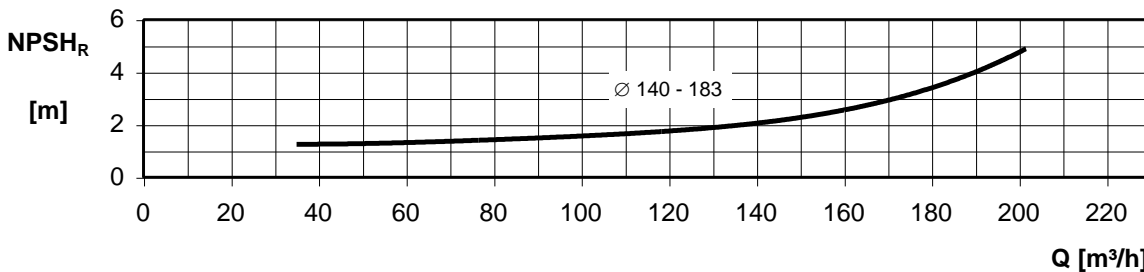
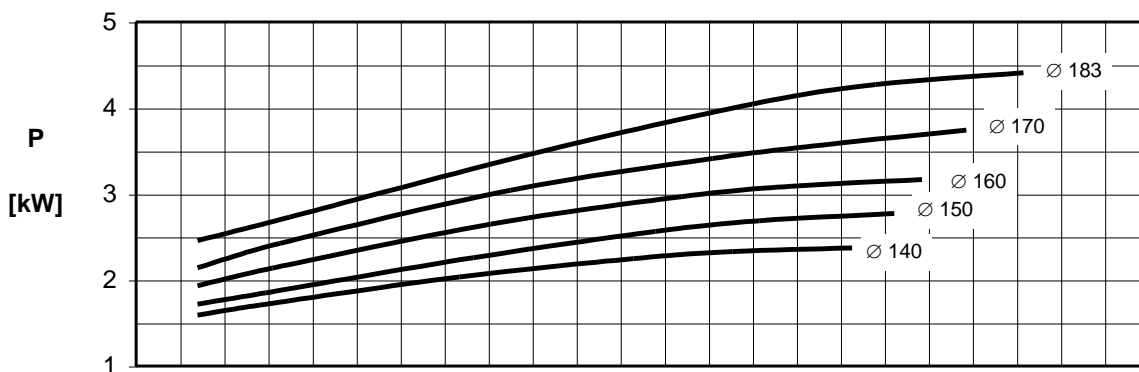
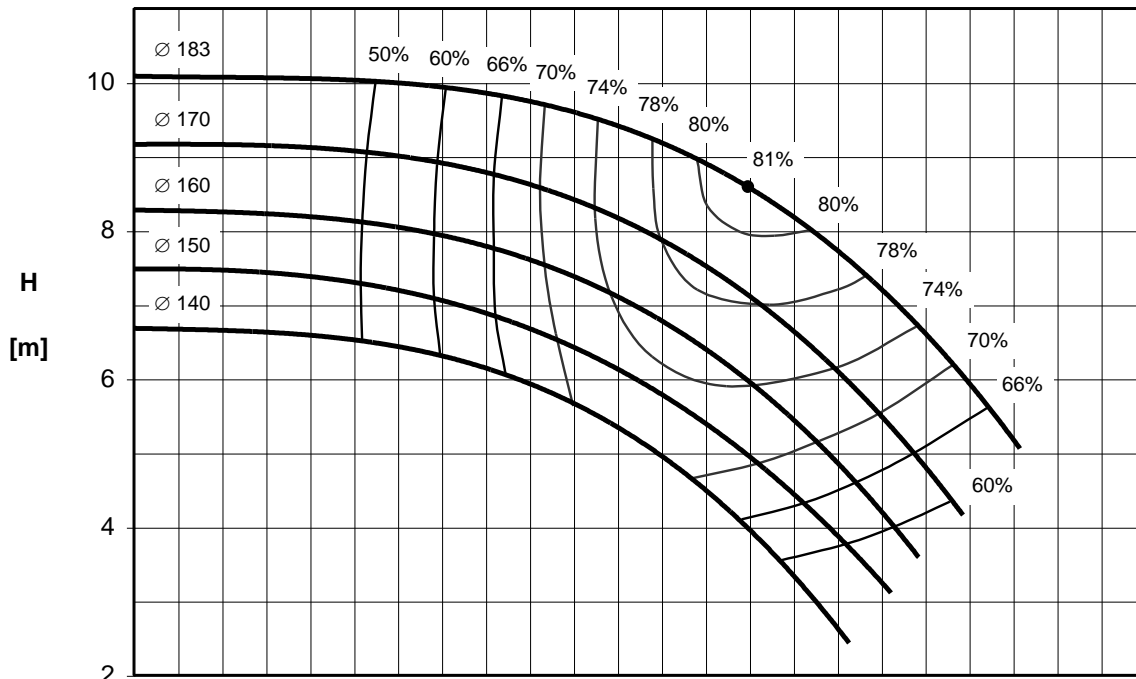
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| SIHI <i>SuperNova</i> 080315 |      | Nenn Drehzahl / nominal speed<br>1450 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |
| Baureihe / series            | ZEND |   |  |  |  |   |  |



1 m<sup>3</sup>/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

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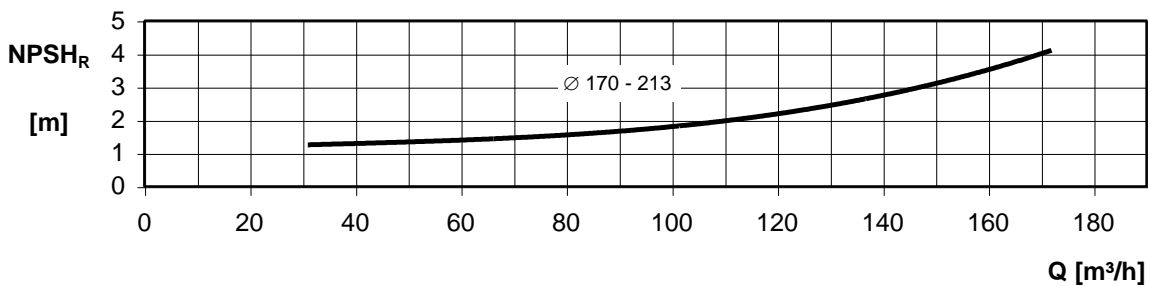
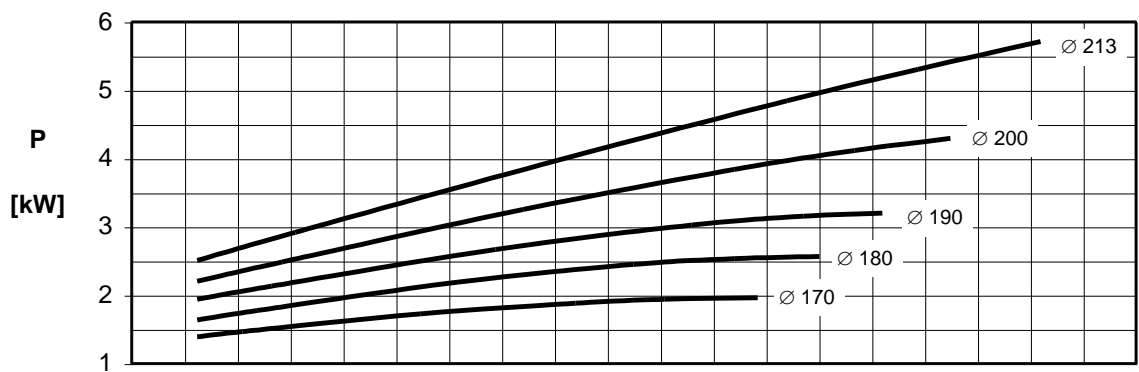
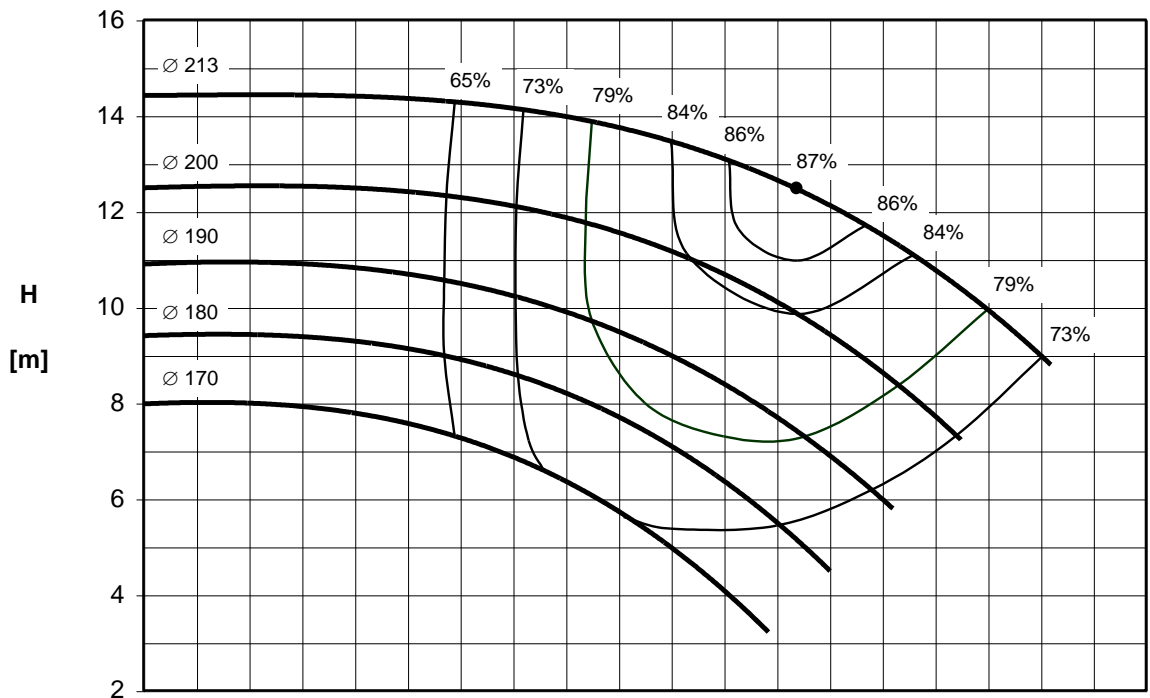
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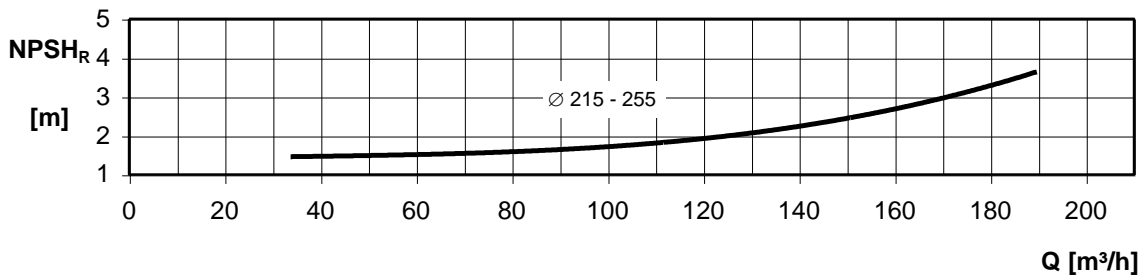
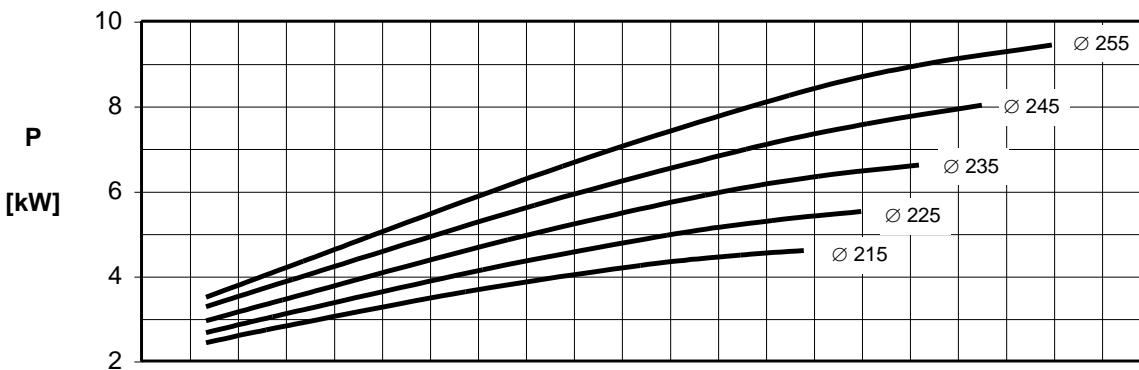
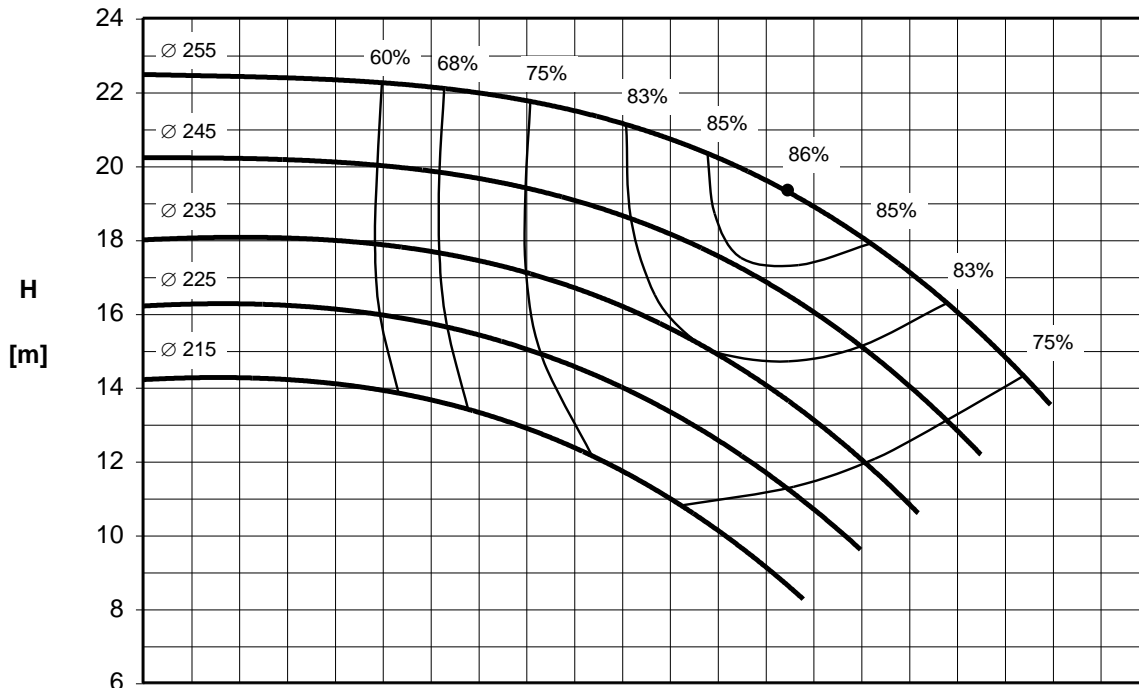
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| <b>SIHI<sup>SuperNova</sup> 100200</b> |             |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZEND</b> | <b>ZDND</b> | <b>ZHND</b>  |  |  |  |  |  |  |



1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



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**Bitte beachten:**

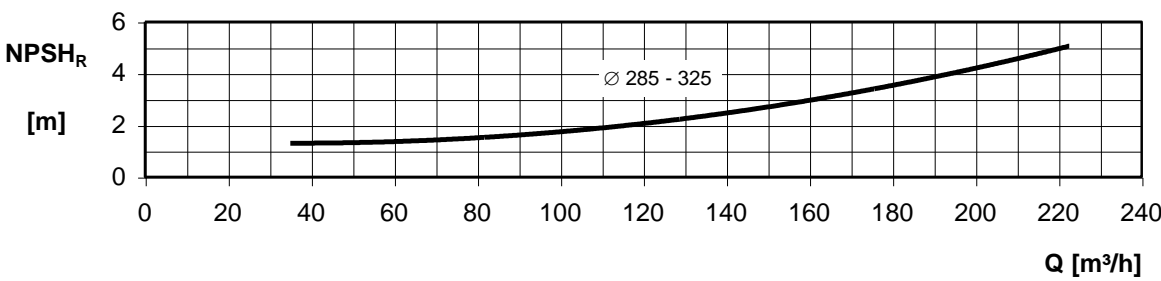
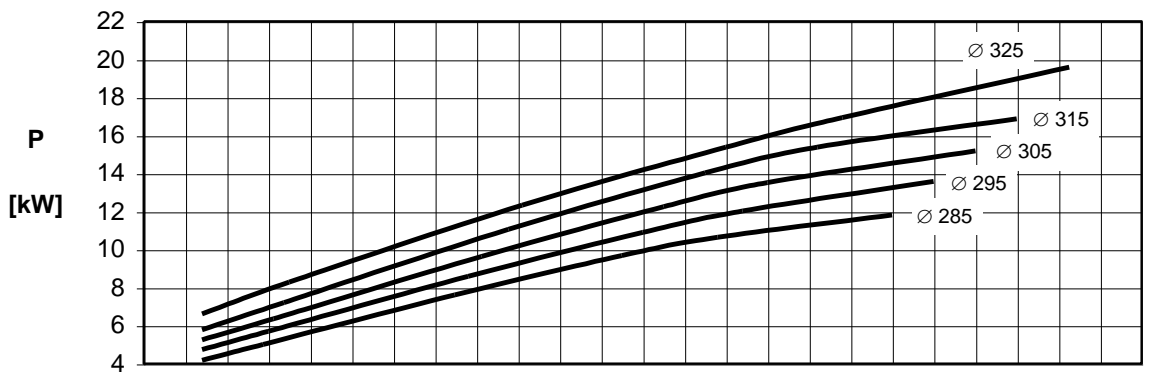
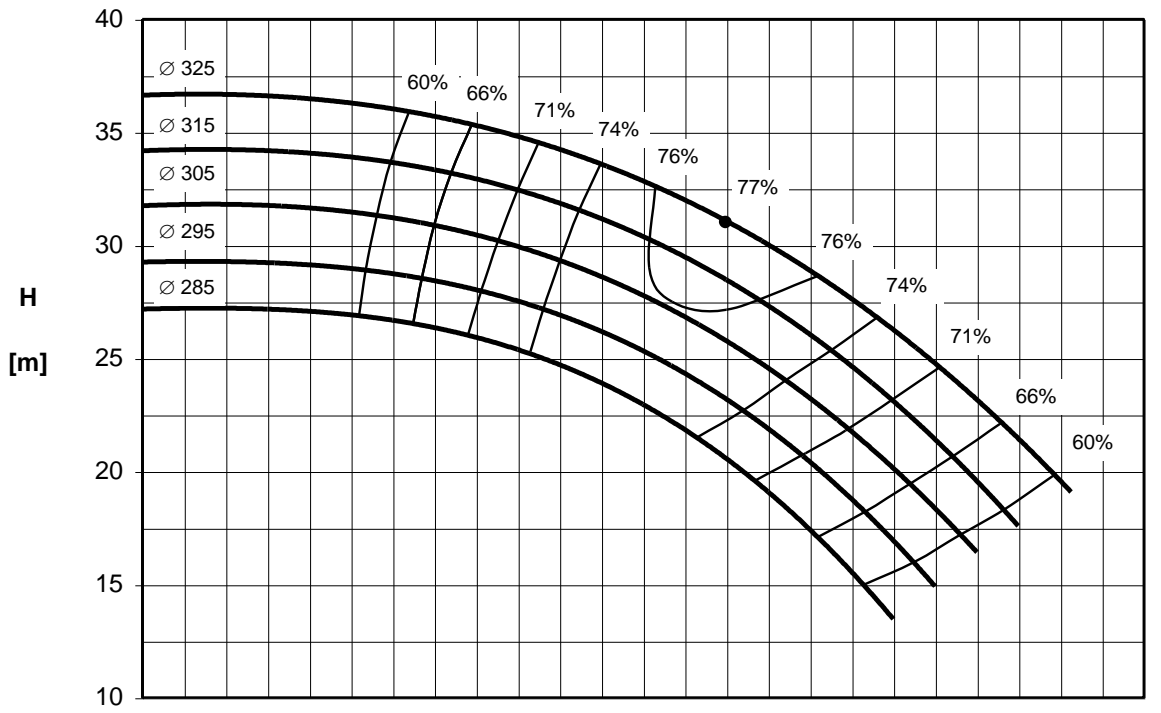
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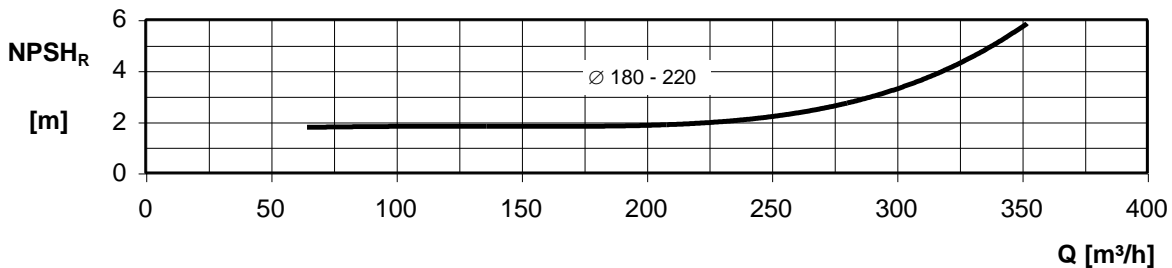
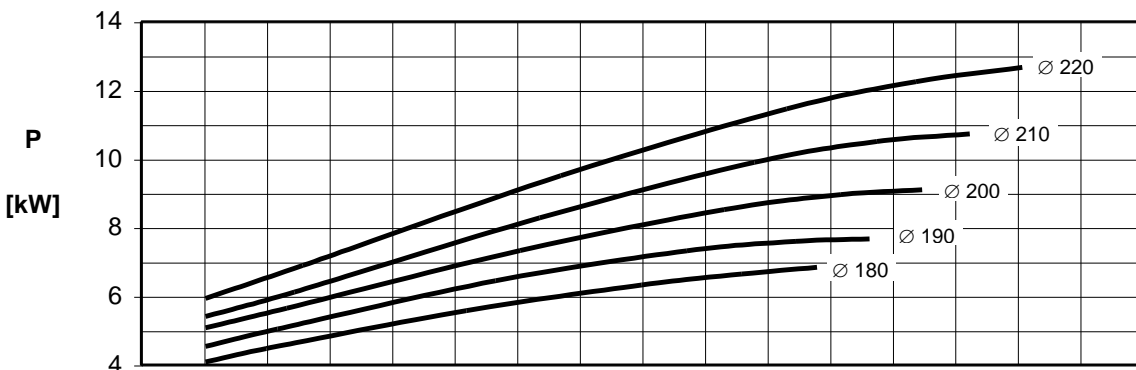
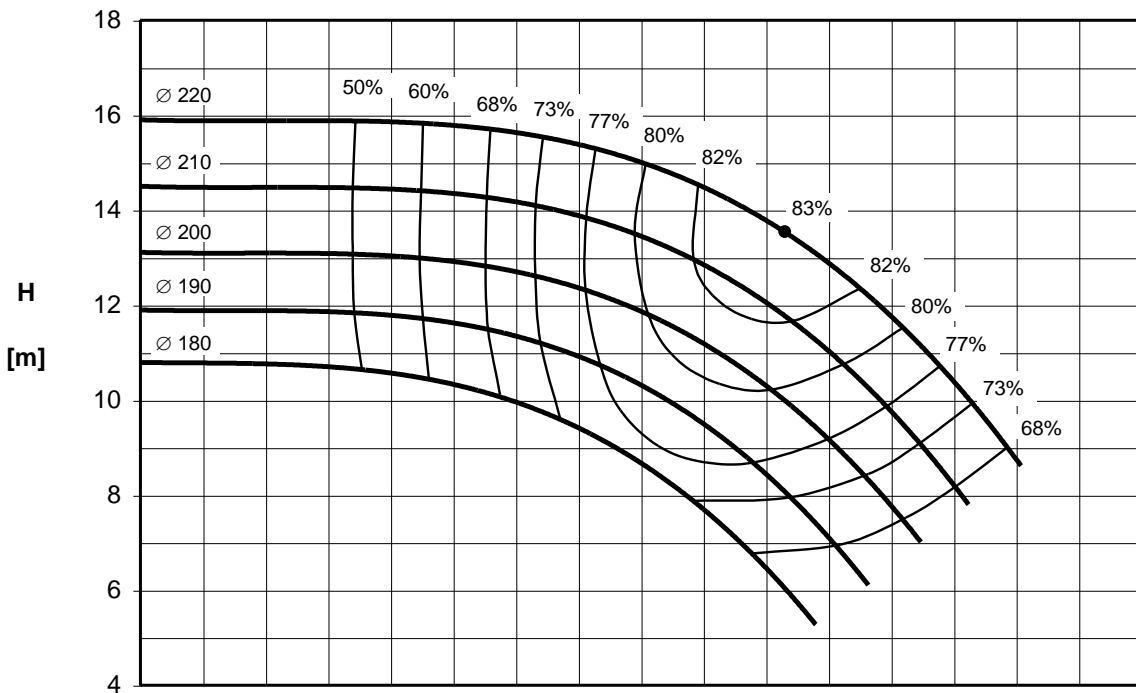
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| <b>SIHI<sup>SuperNova</sup> 100315</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  | <b>FLOWSERVE</b><br><small>SIHI Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZEND</b> |  |  |  |   |  |  |



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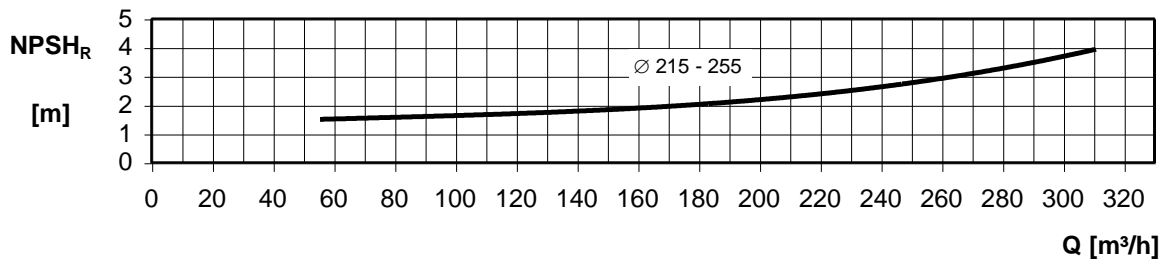
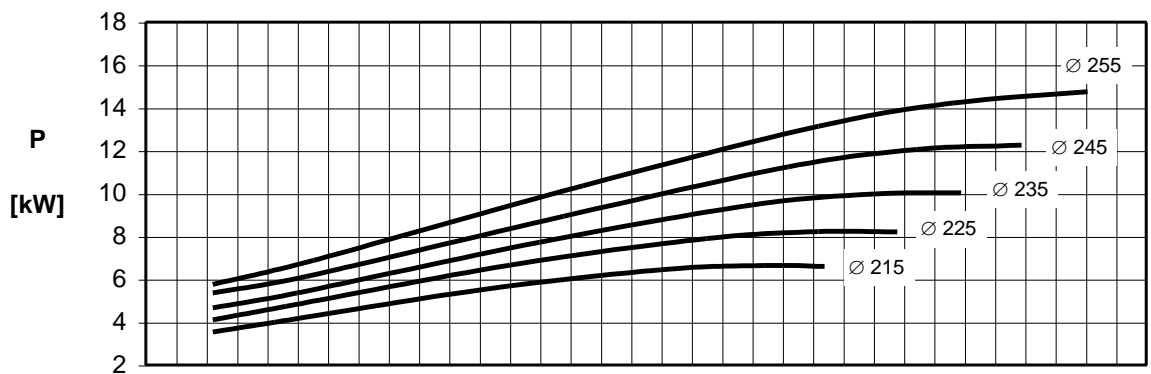
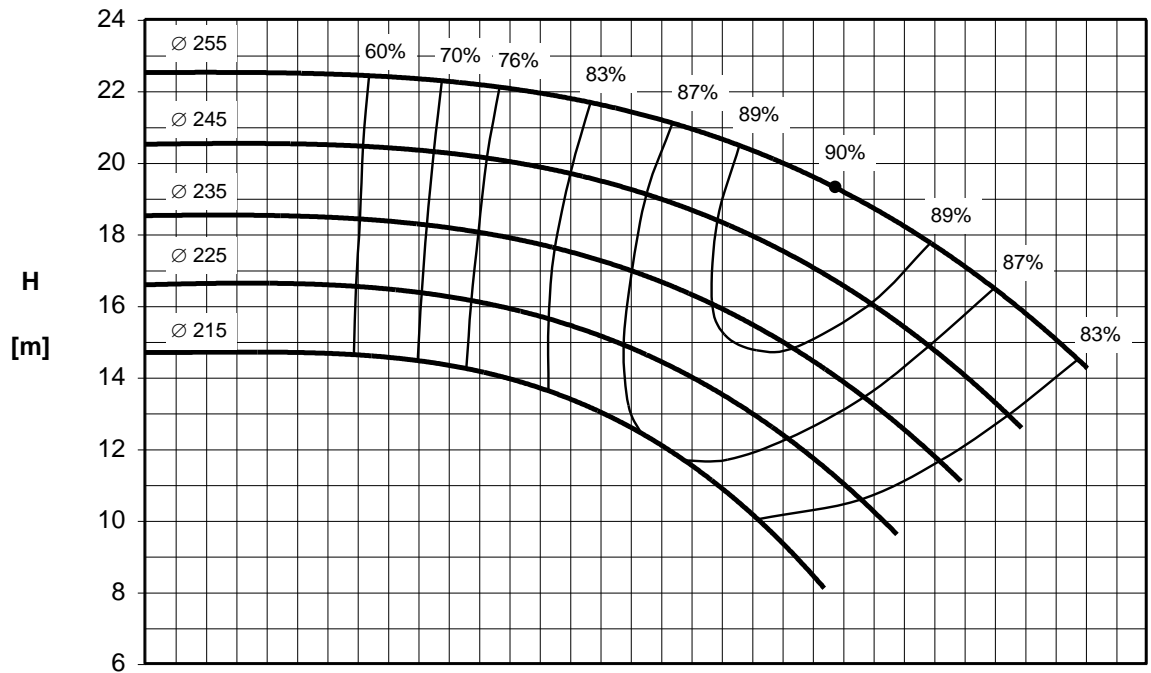
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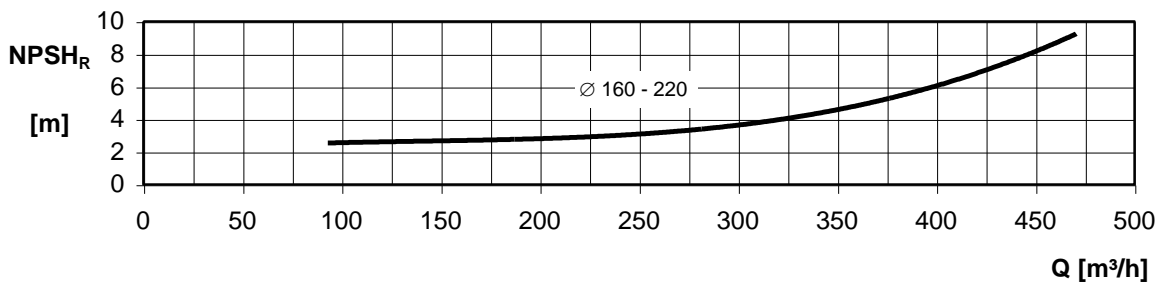
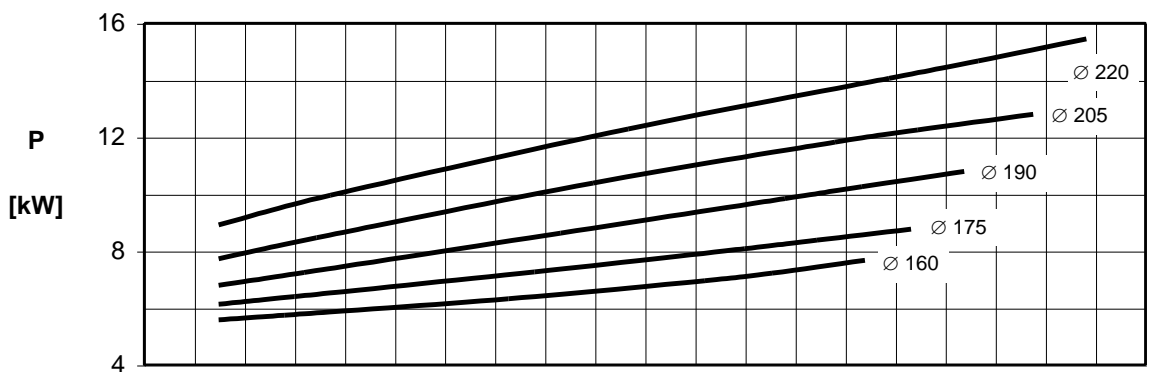
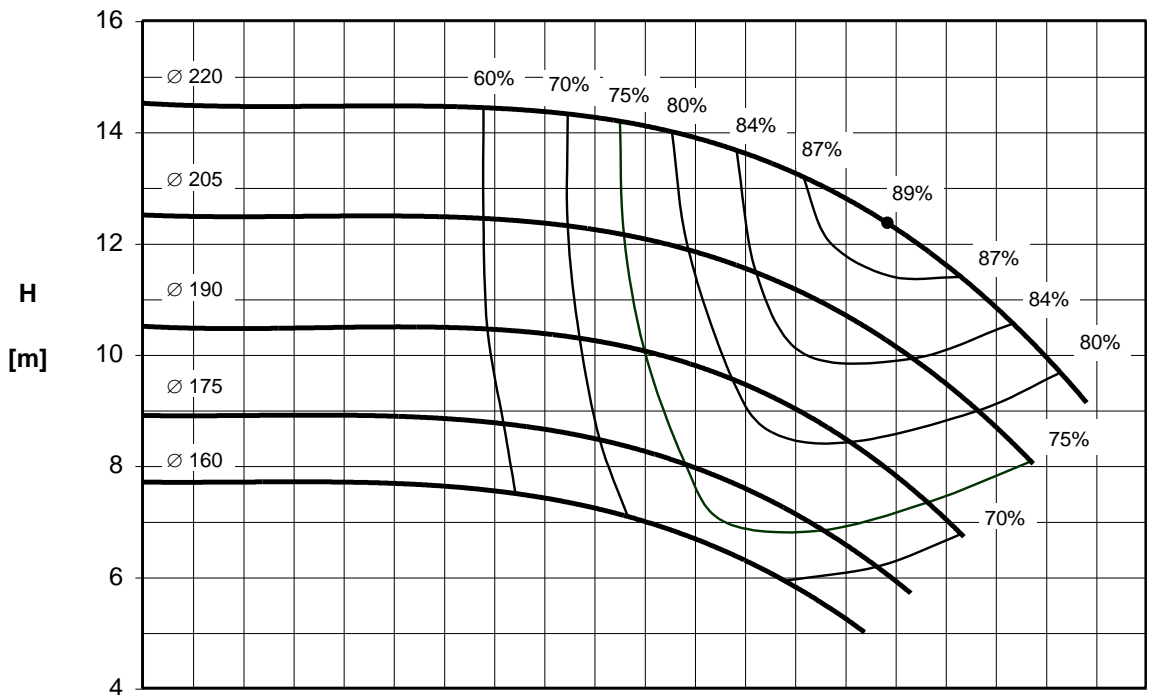
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| <b>SIHI<sup>SuperNova</sup> 125250</b> |             |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZEND</b> | <b>ZDND</b> | <b>ZHND</b>  |  |  |  |  |  |  |



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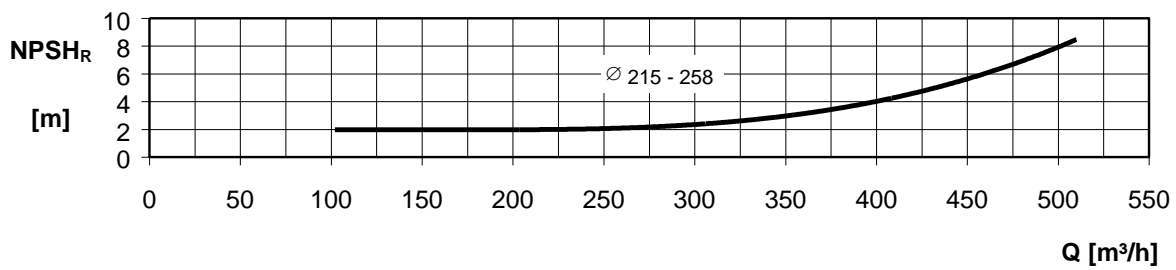
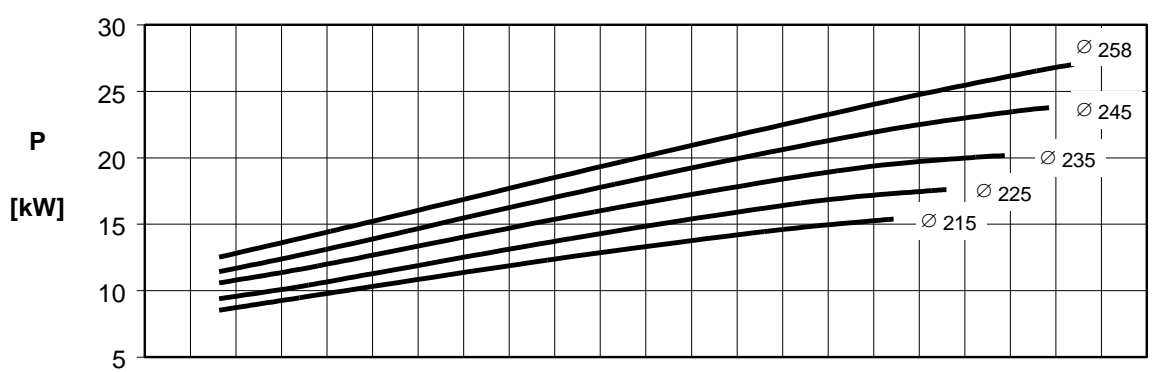
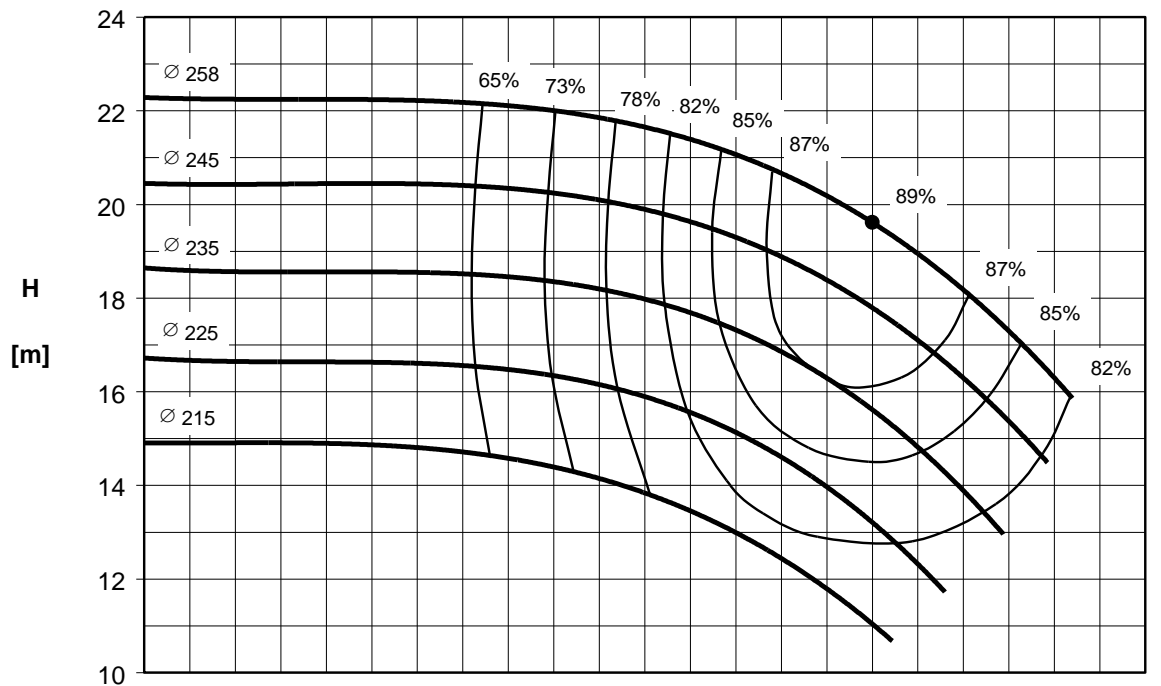
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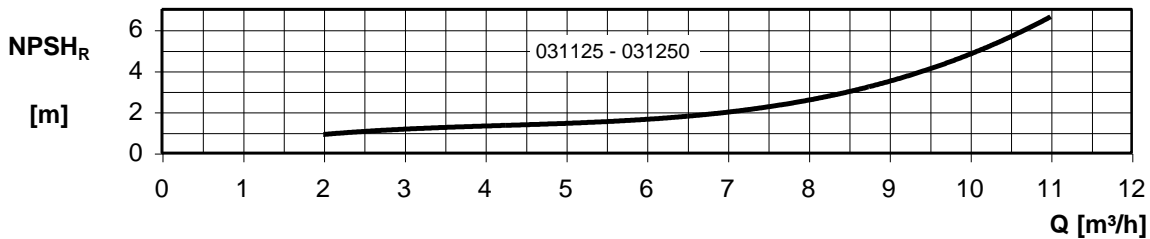
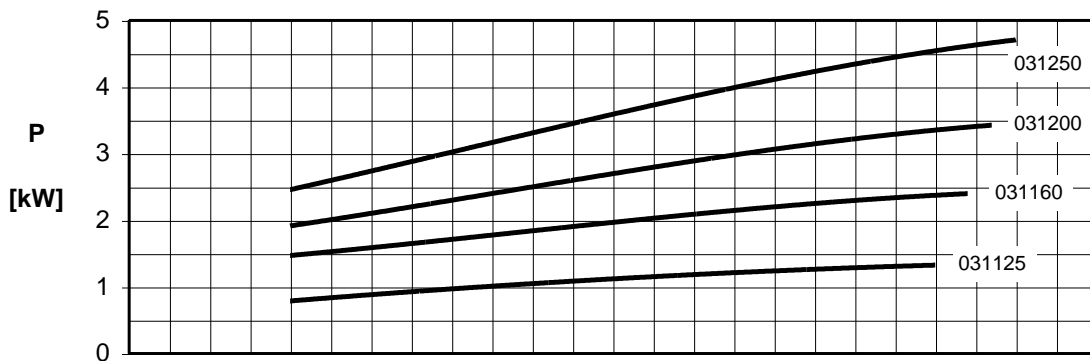
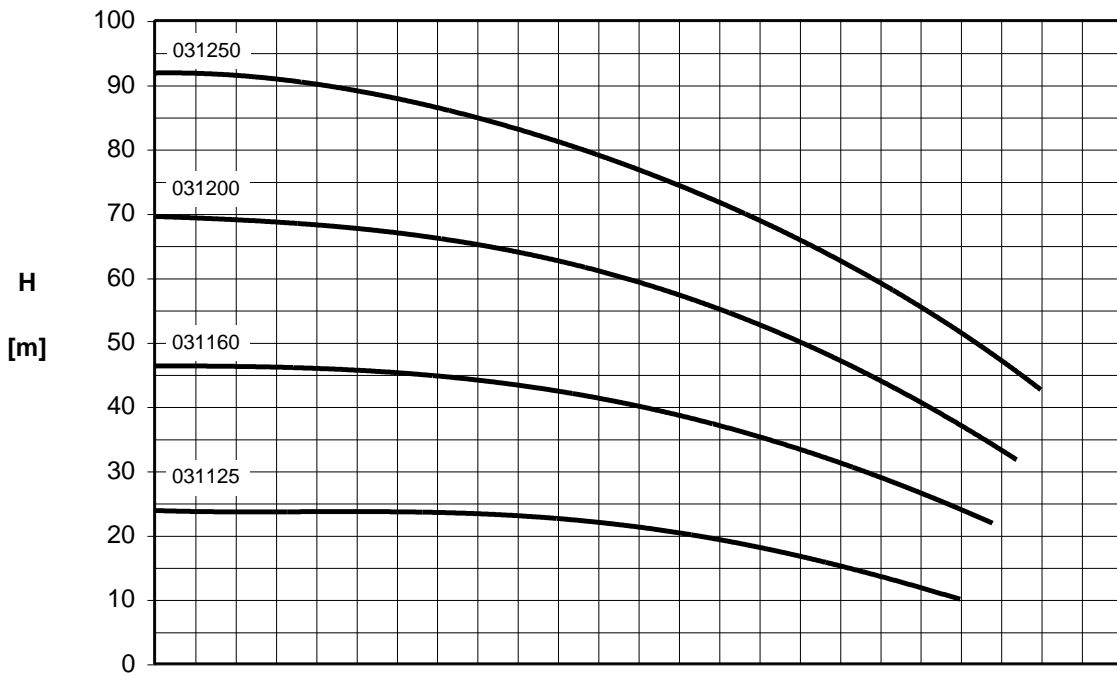
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| <b>SIHI<sup>SuperNova</sup> 150250</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>1450 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZHND</b> |  |  |  |  |  |  |  |



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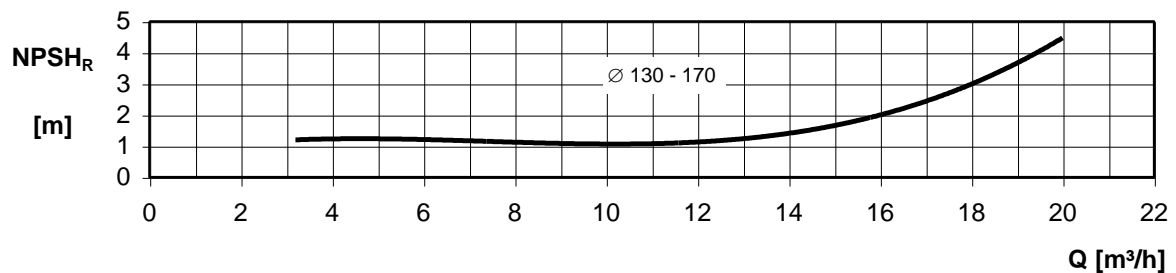
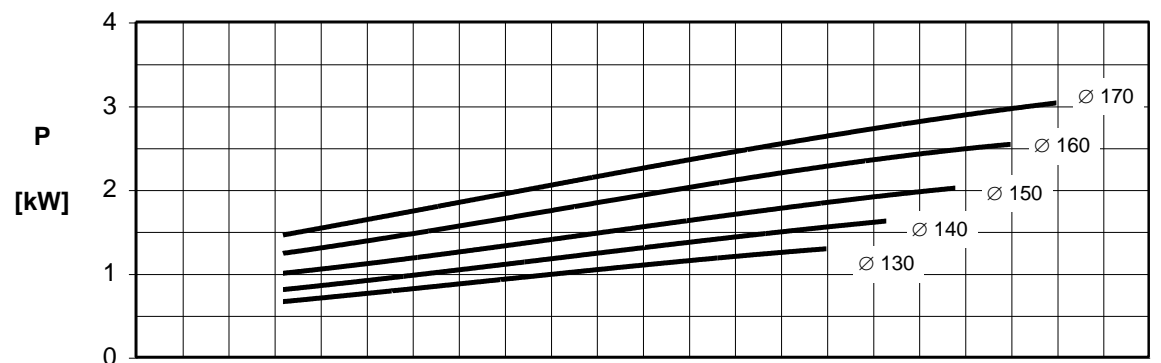
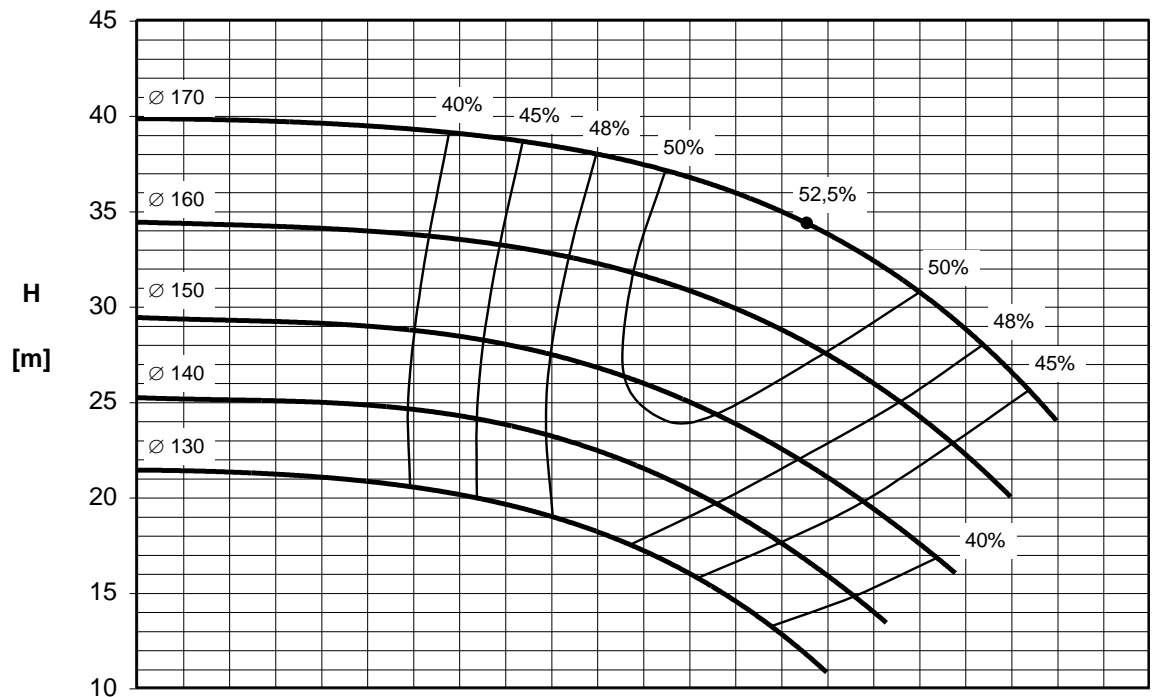
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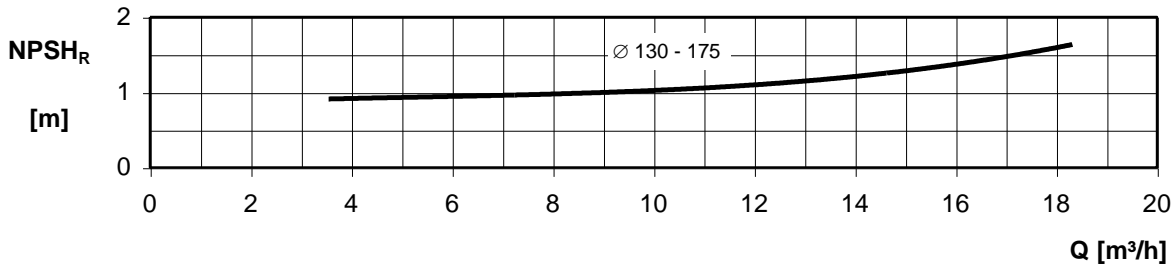
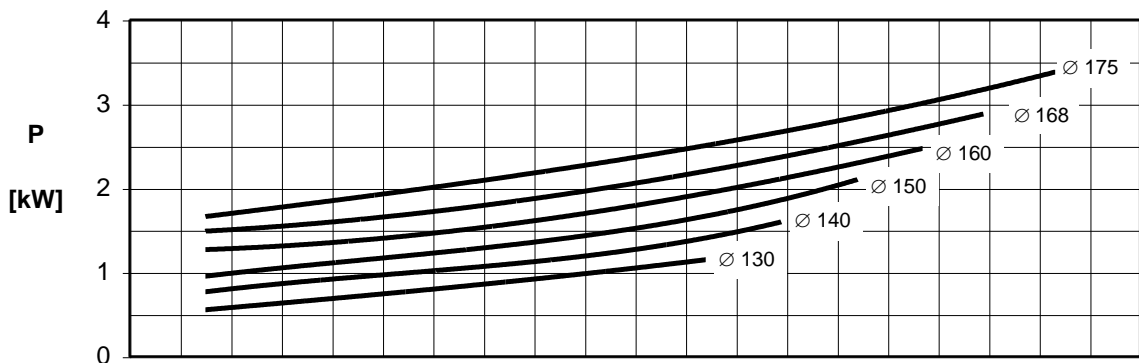
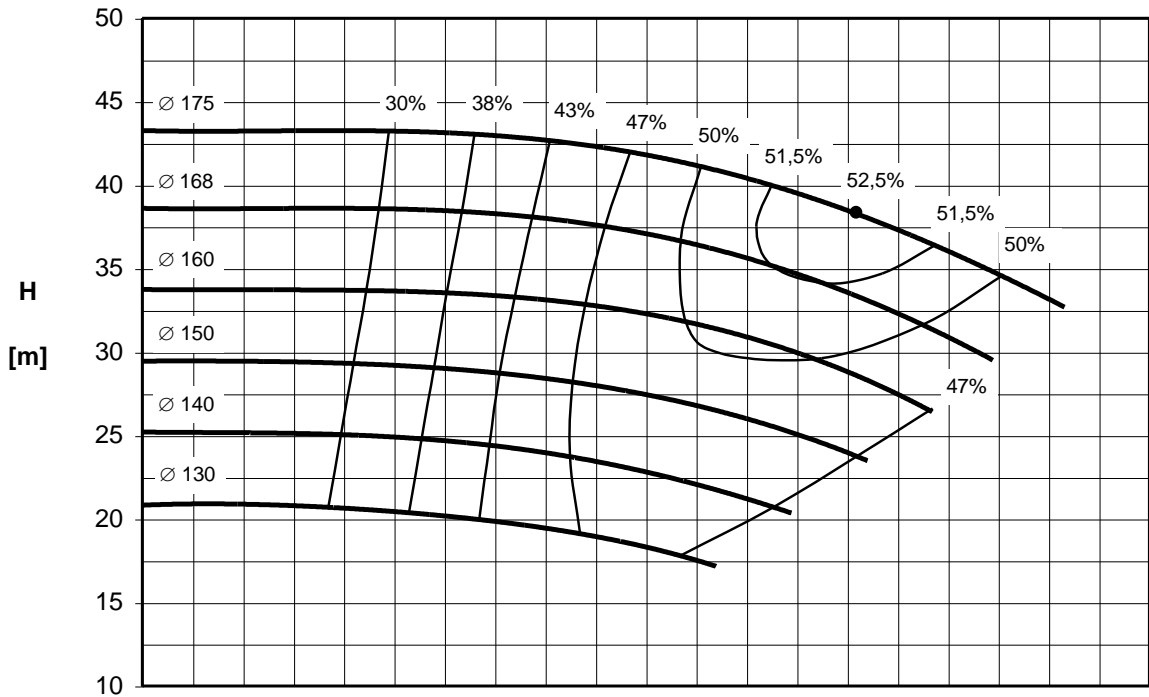
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| SIHI <sup>SuperNova</sup> 032160 |      |      | Nenn Drehzahl / nominal speed<br>2900 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |  |
| Baureihe / series                | ZEND | ZDND |   |  |  |  |   |  |  |



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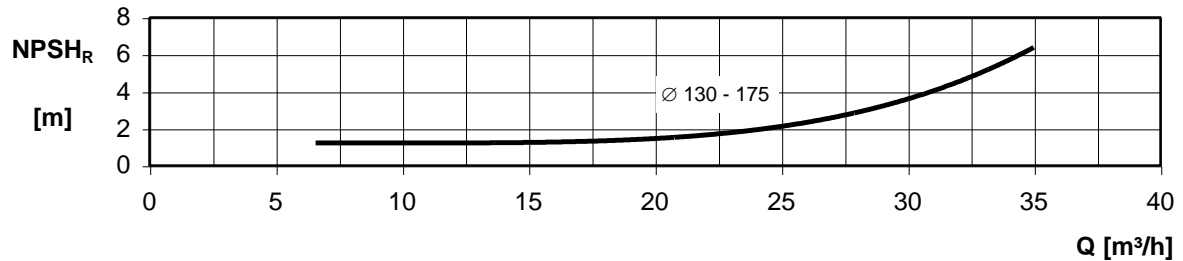
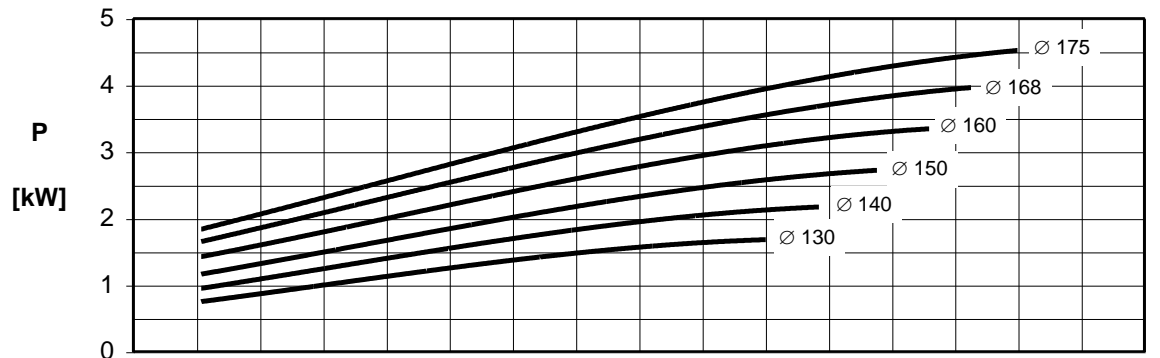
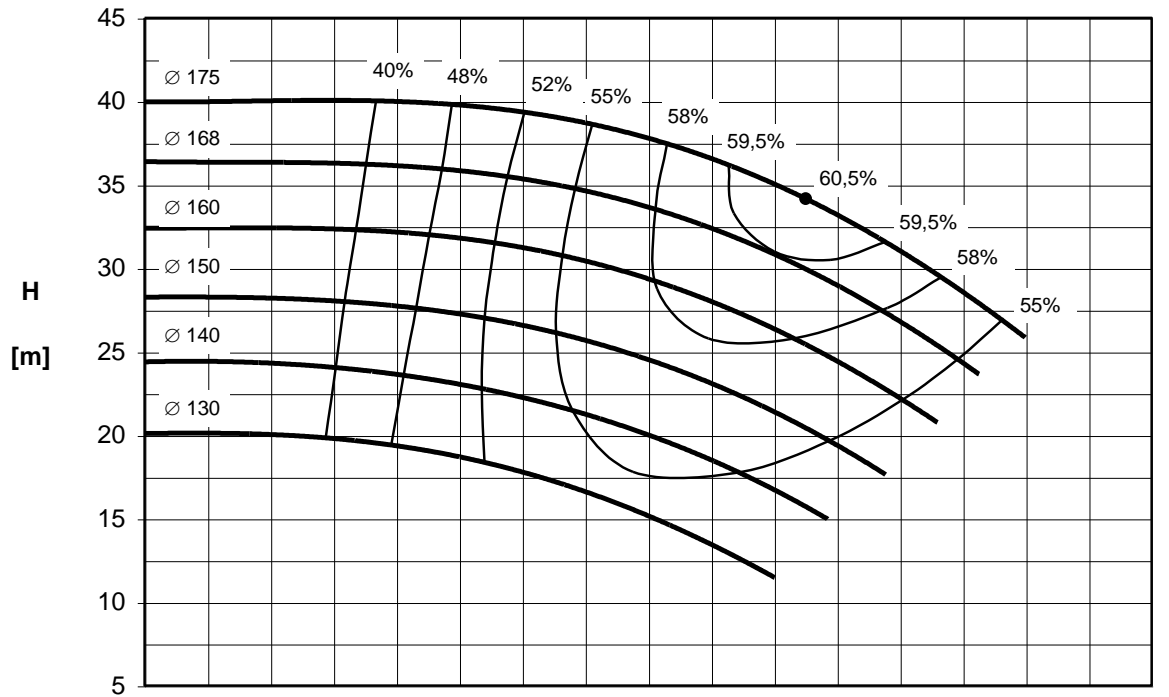
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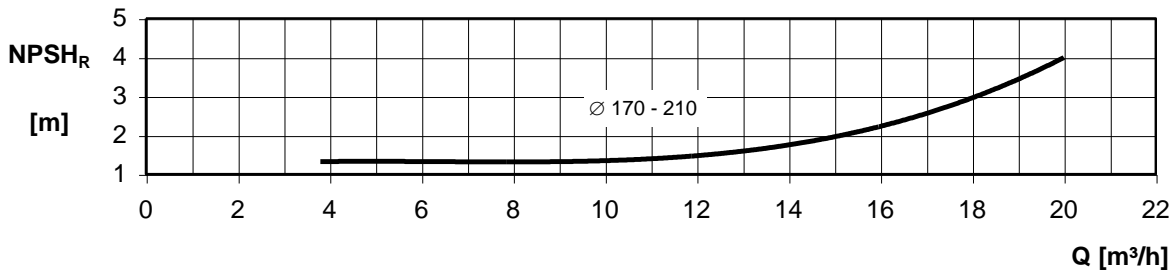
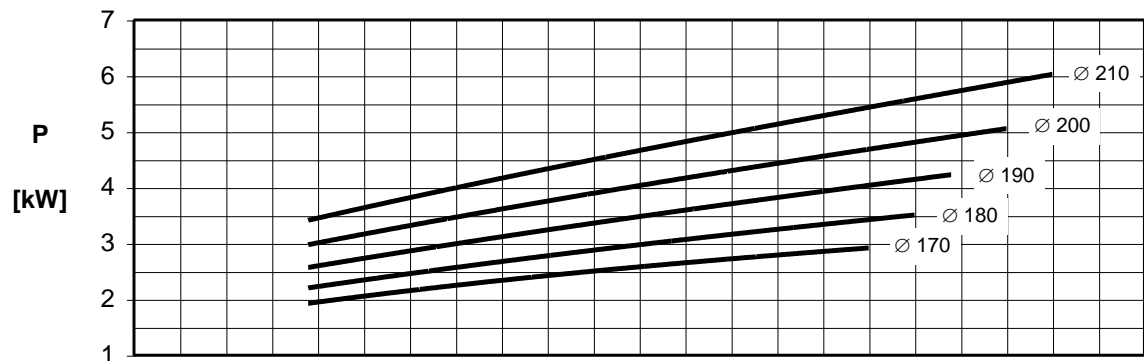
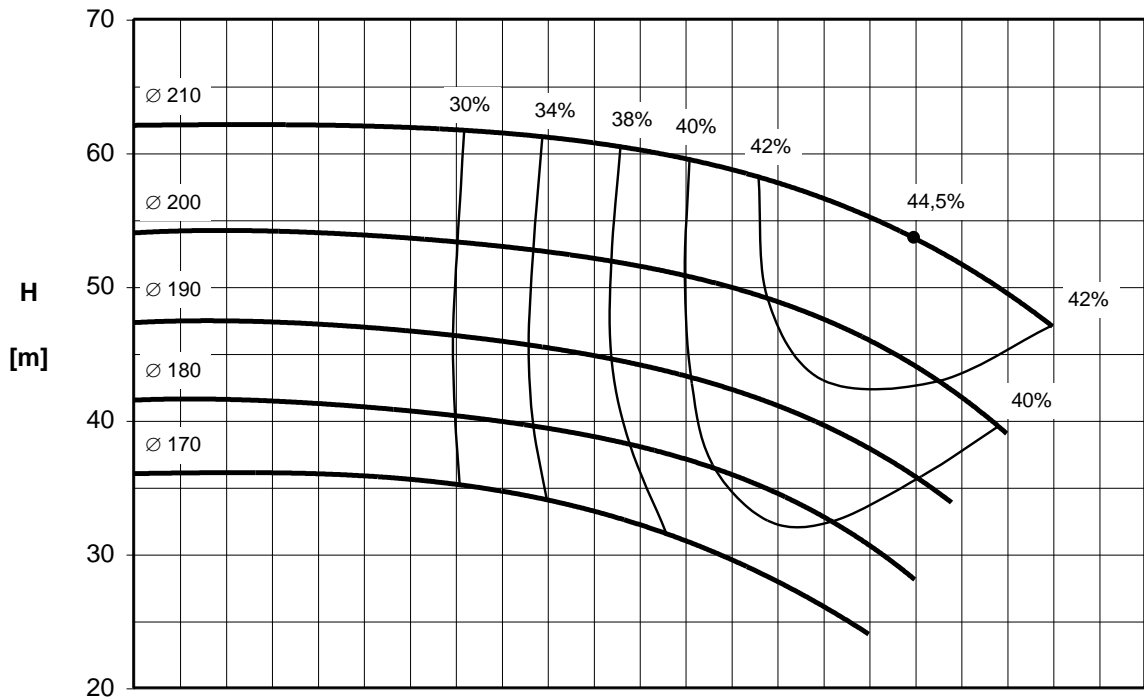
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| <b>SIHI<sup>SuperNova</sup> 032160B</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>2900 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>                | <b>ZHND</b> |  |  |  |  |  |  |  |



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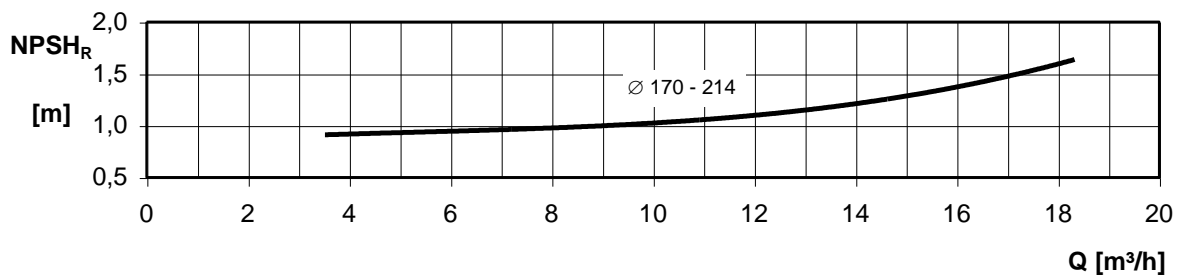
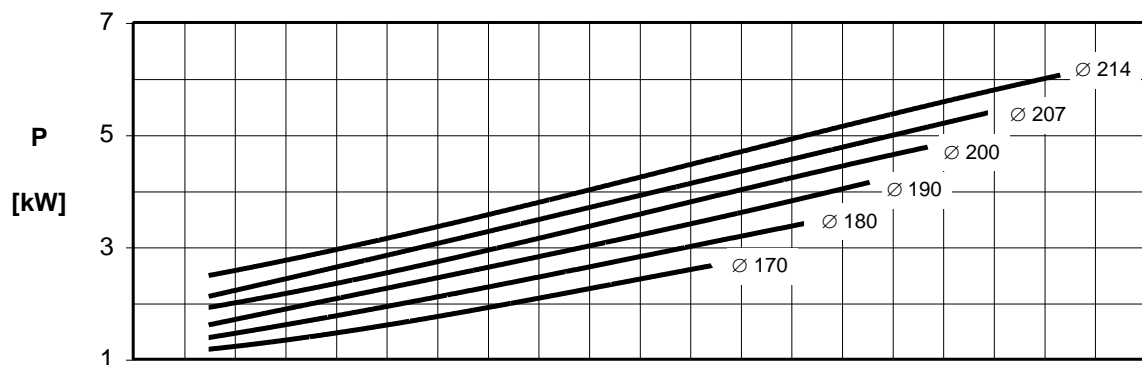
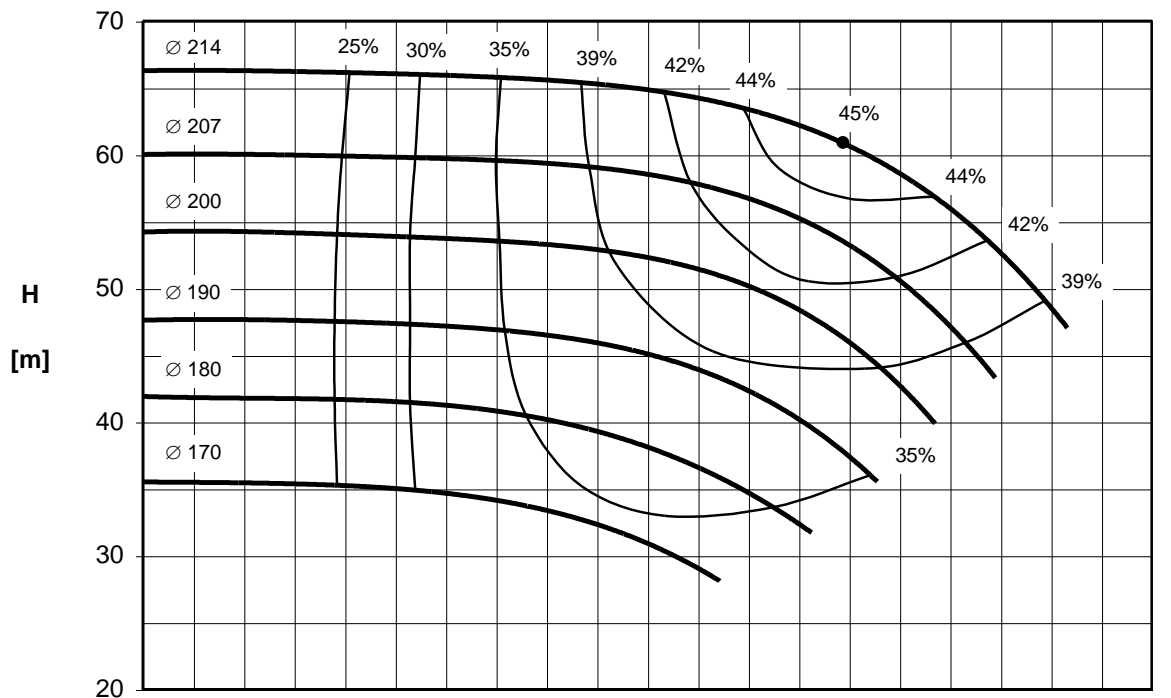
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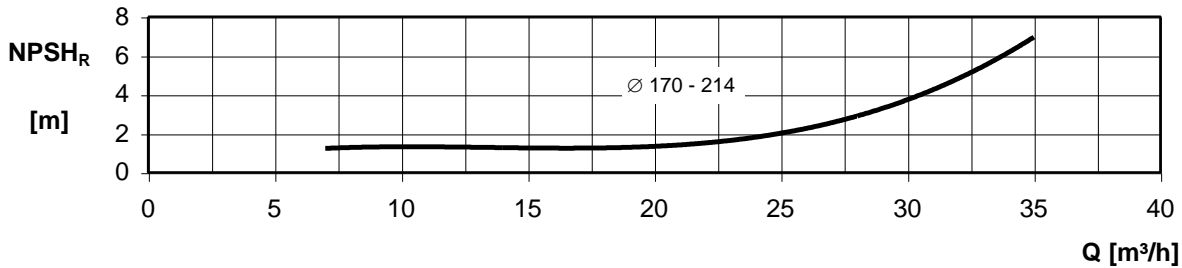
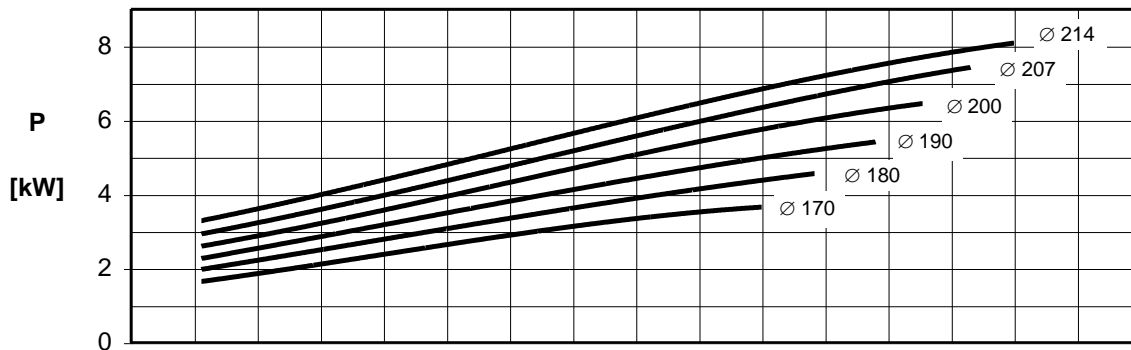
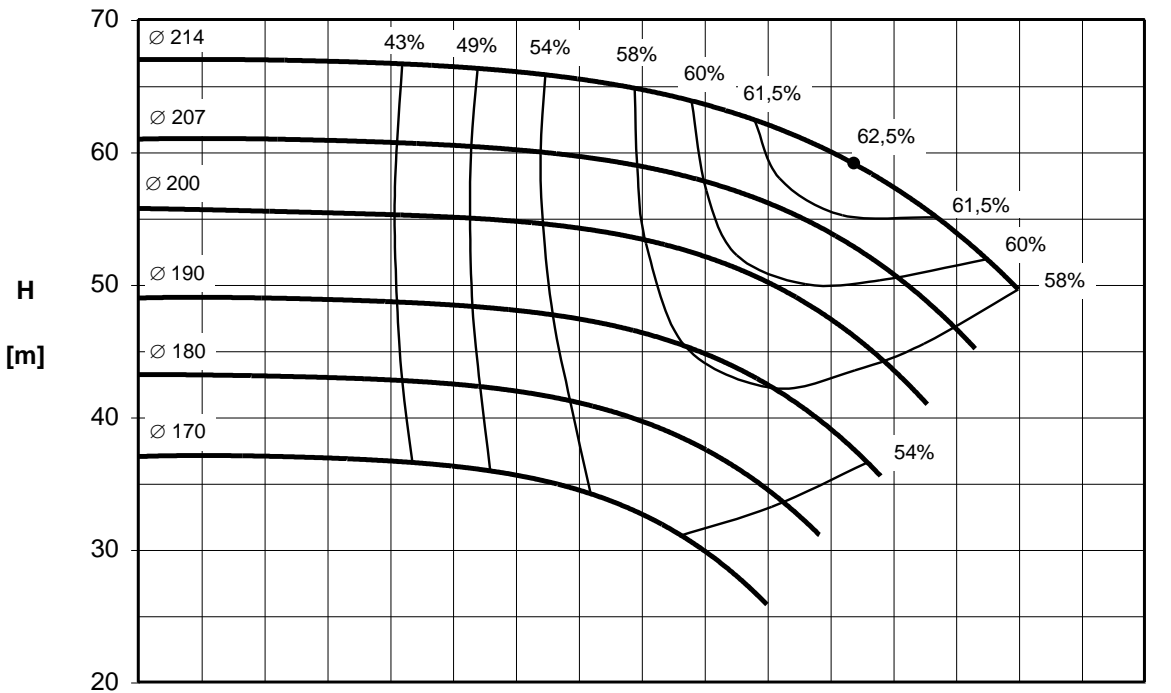
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| <b>SIHI<sup>SuperNova</sup> 032200A</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>2900 min<sup>-1</sup></b> |  |  |  | <b>FLOWERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>                | <b>ZHND</b> |  |  |  |  |   |  |  |



1 m<sup>3</sup>/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

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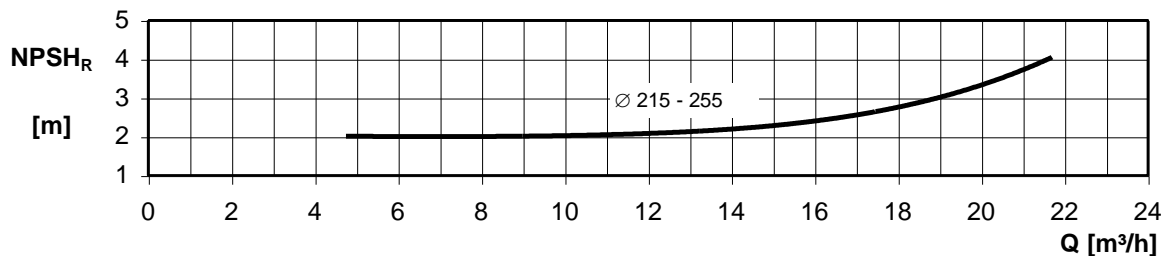
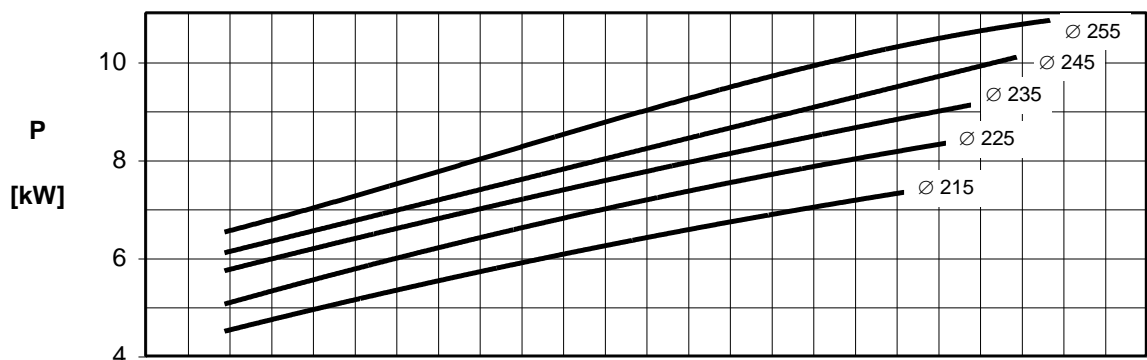
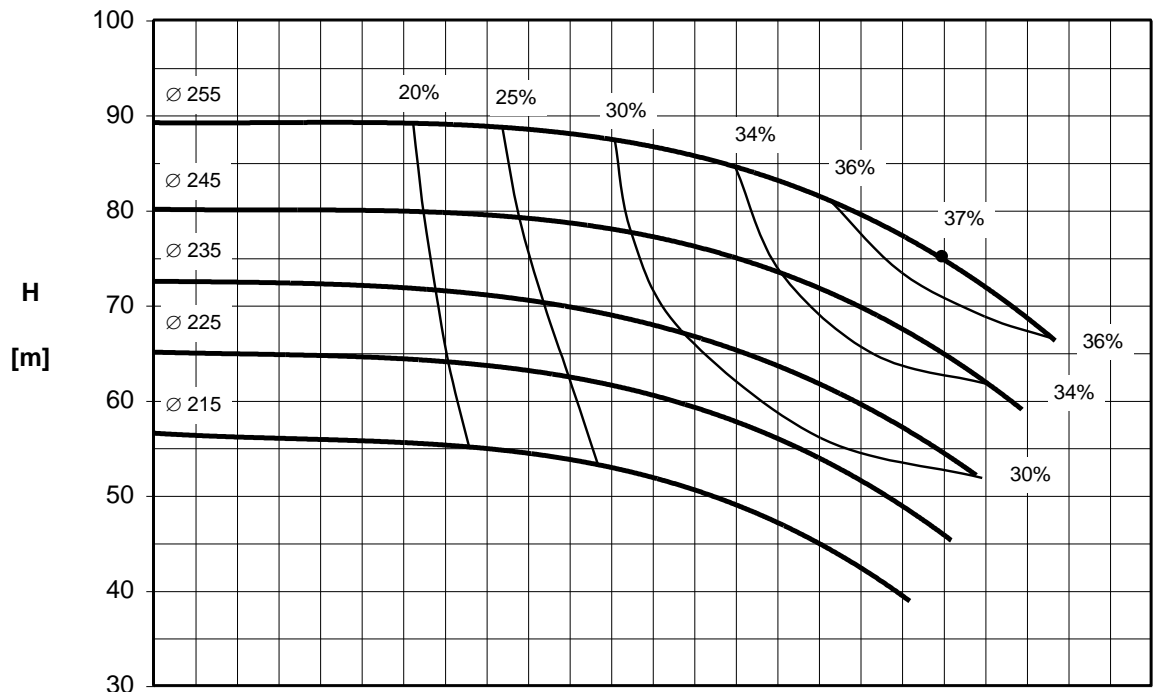
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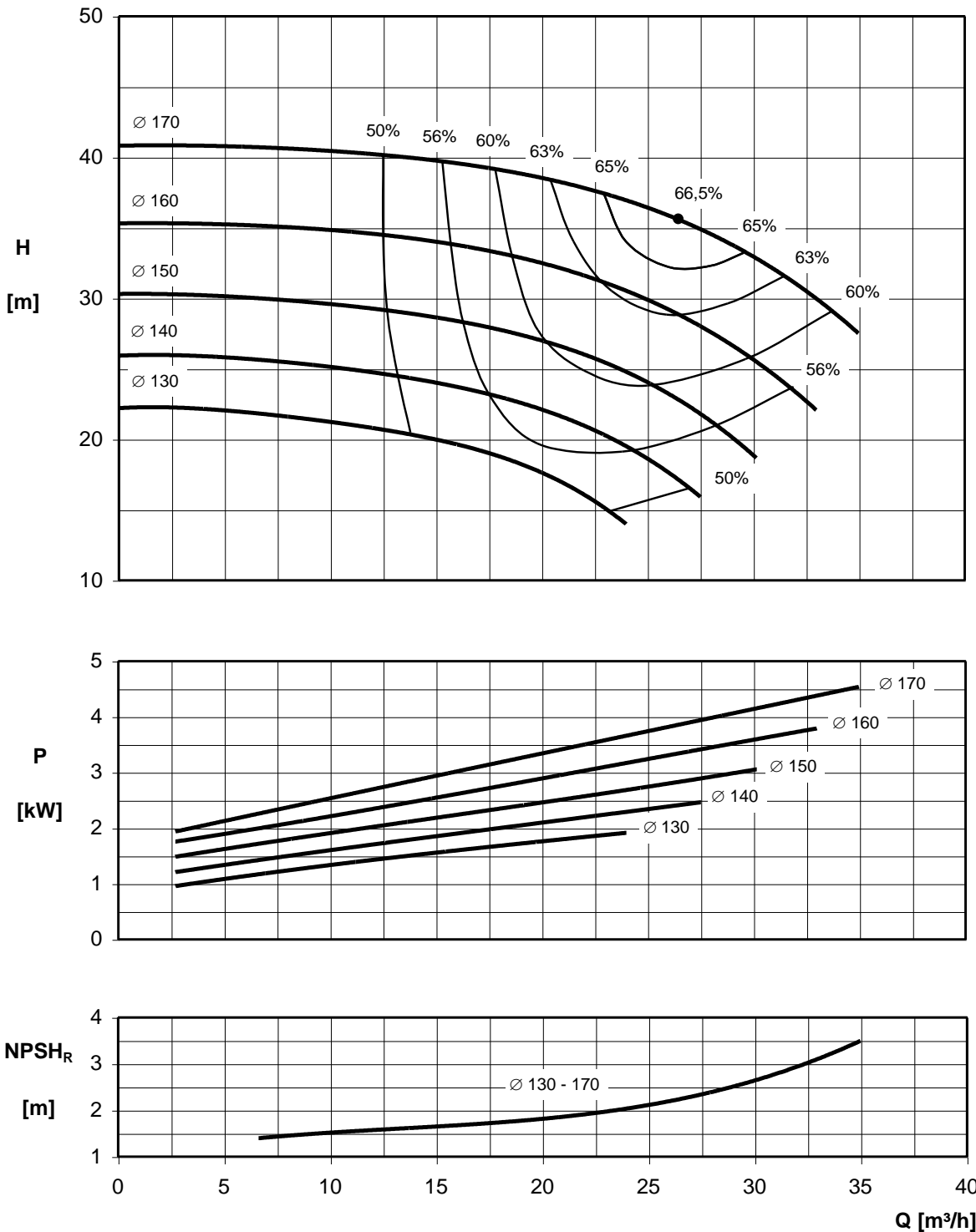
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| SIHI <sup>SuperNova</sup> 032250 |      |      | Nenn Drehzahl / nominal speed<br>2900 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |  |
| Baureihe / series                | ZEND | ZDND | ZHND  |  |  |  |   |  |  |



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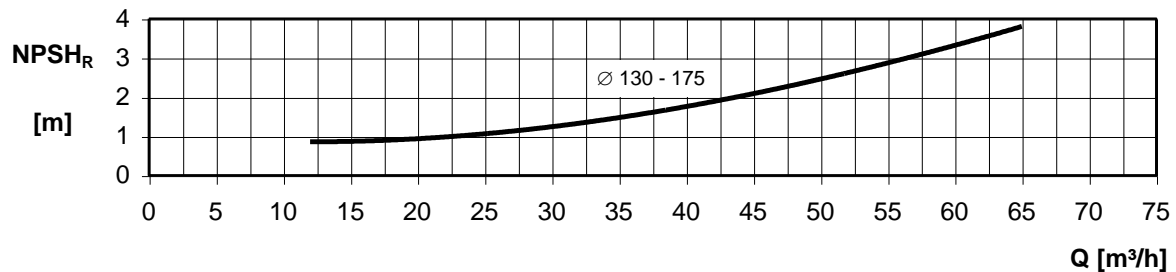
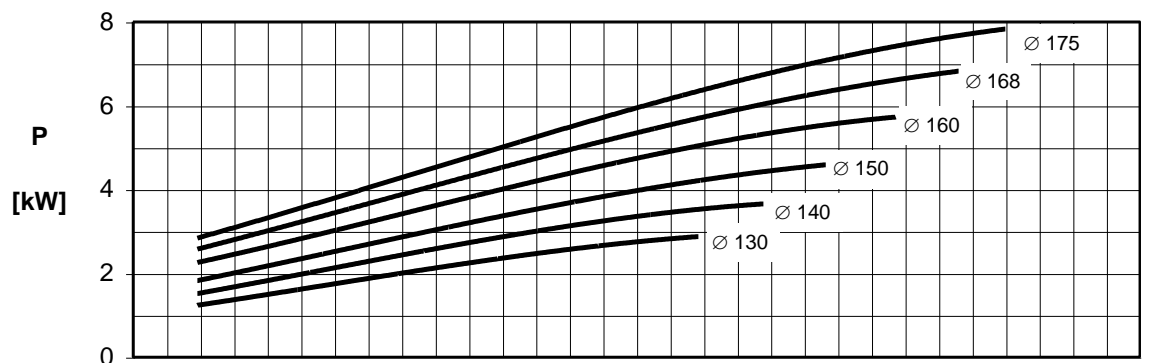
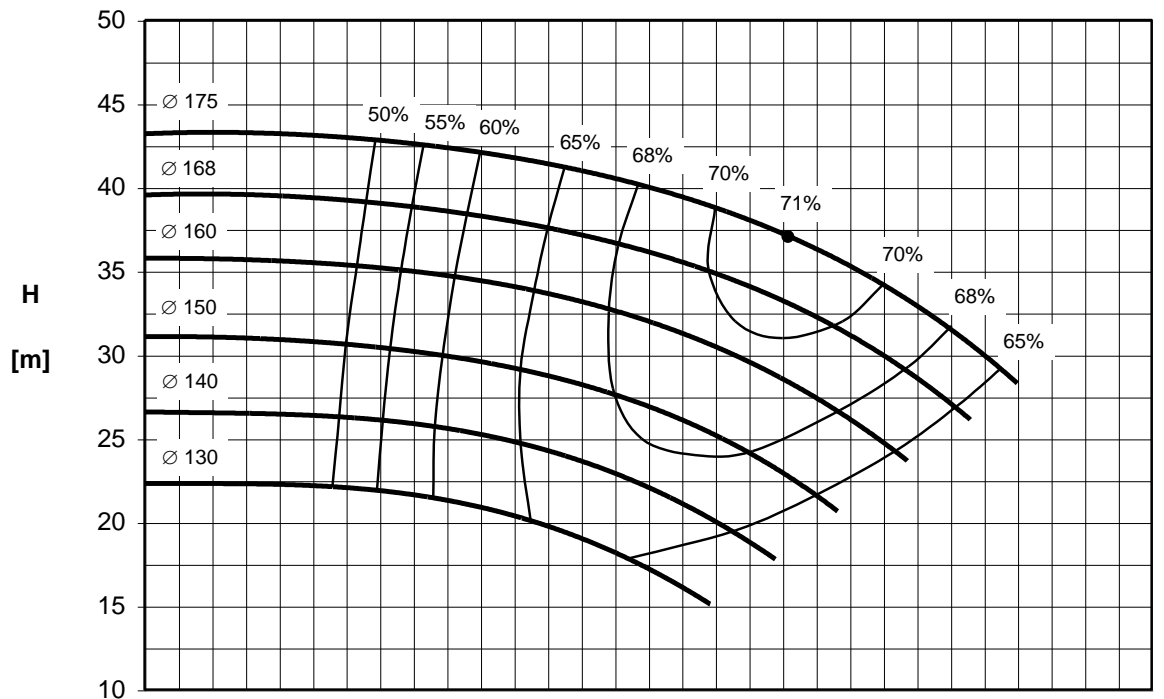
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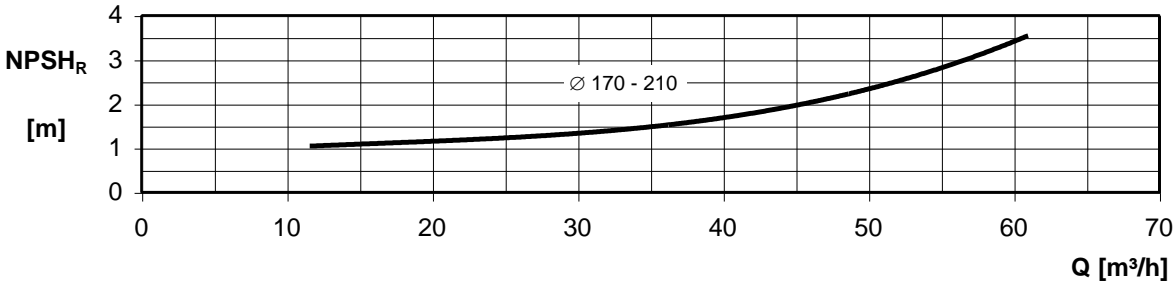
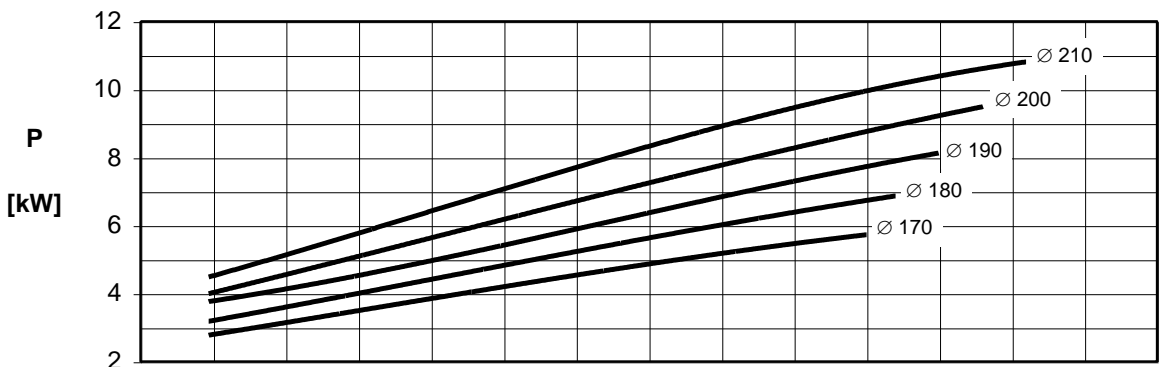
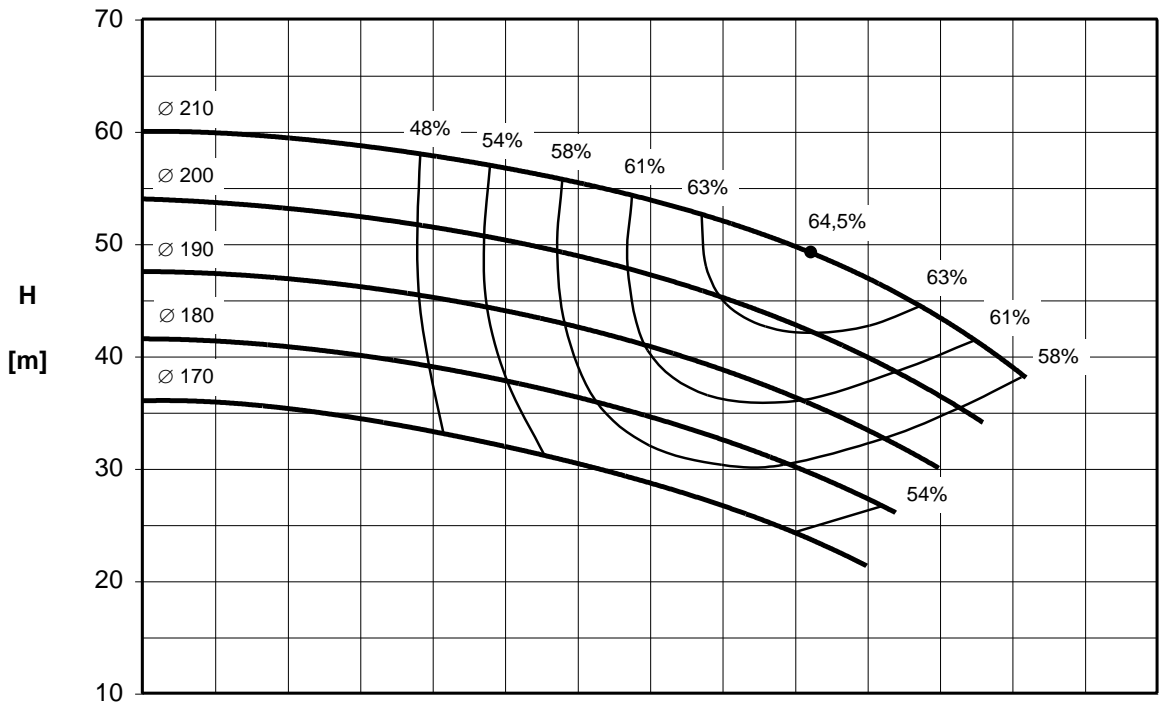
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| <b>SIHI<sup>SuperNova</sup> 040160</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>2900 min<sup>-1</sup></b> |  |  |  | <b>FLOWERVE</b><br><small>SIHI® Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZHND</b> |  |  |  |  |   |  |  |



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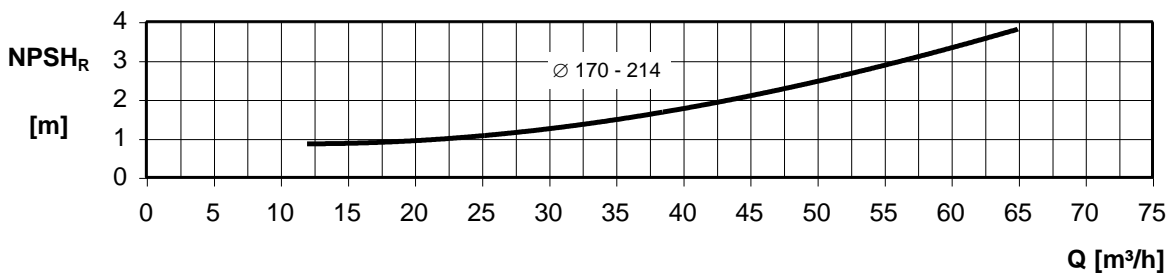
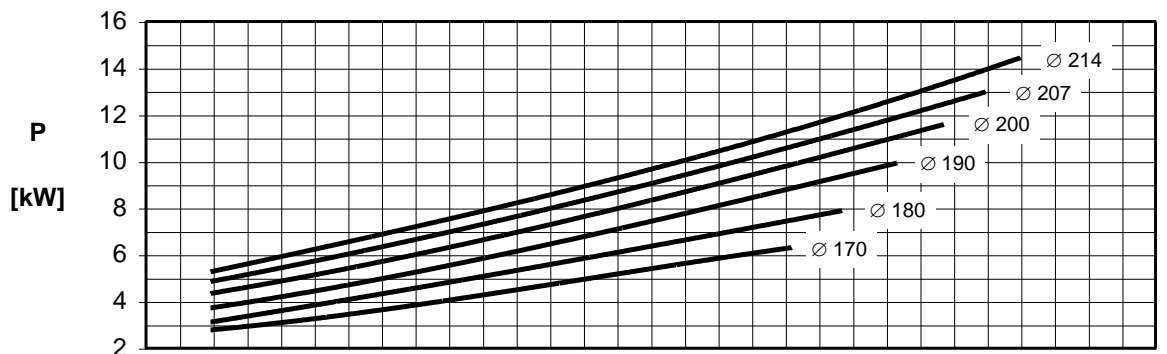
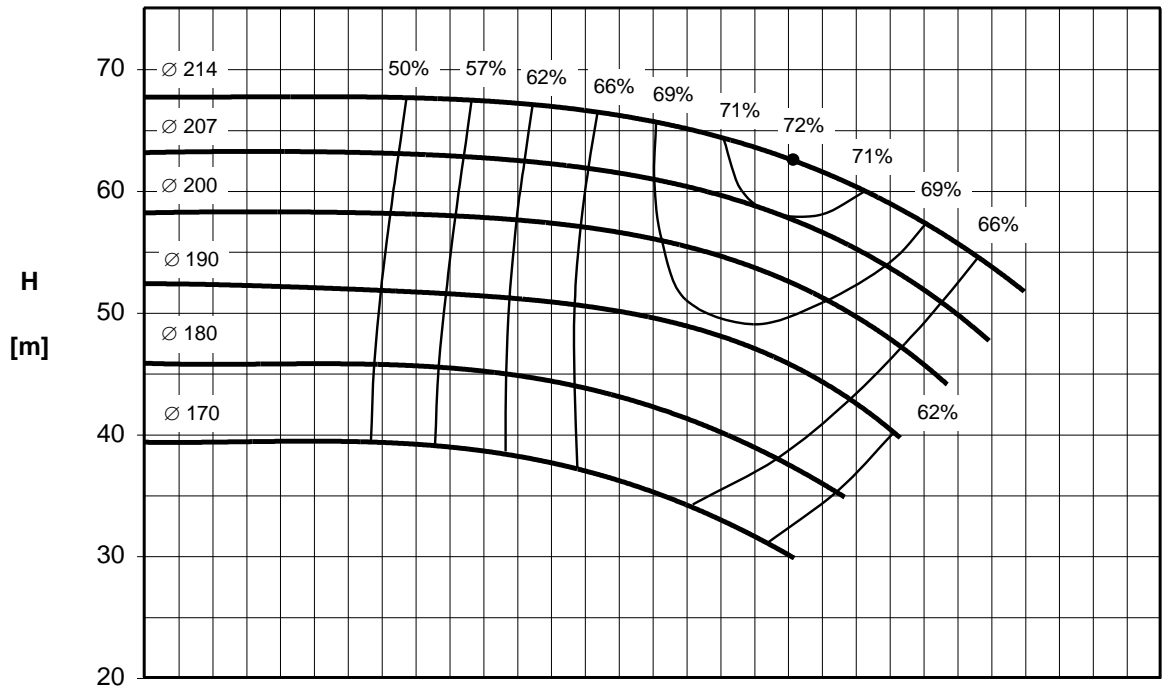
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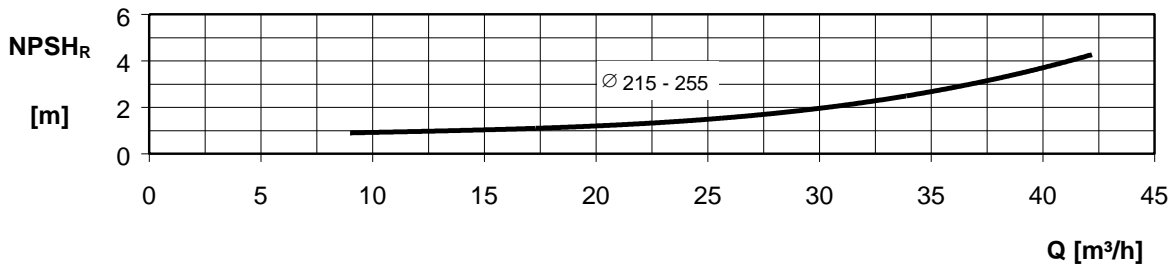
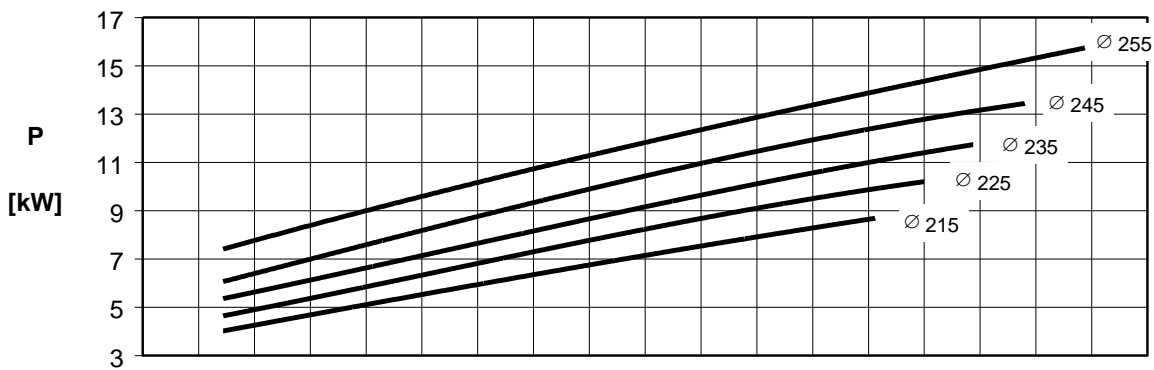
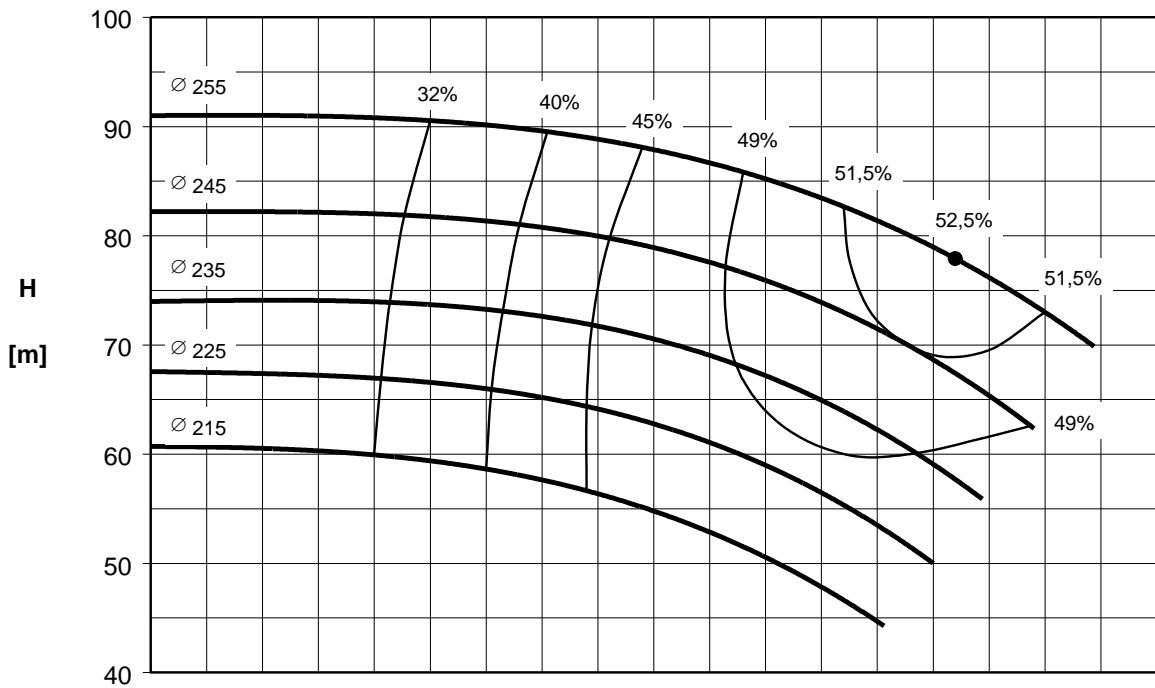
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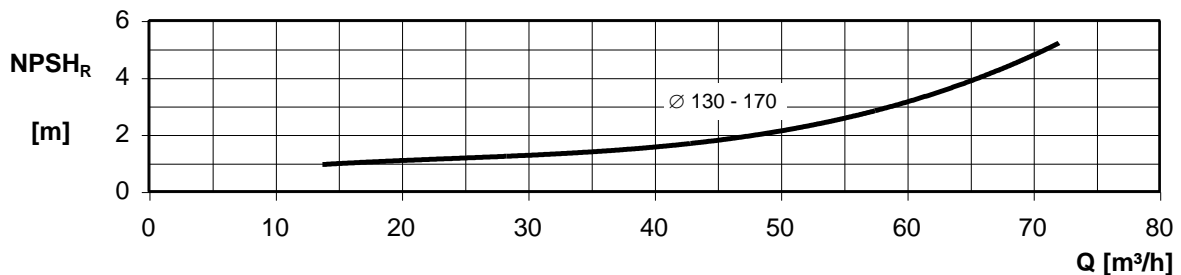
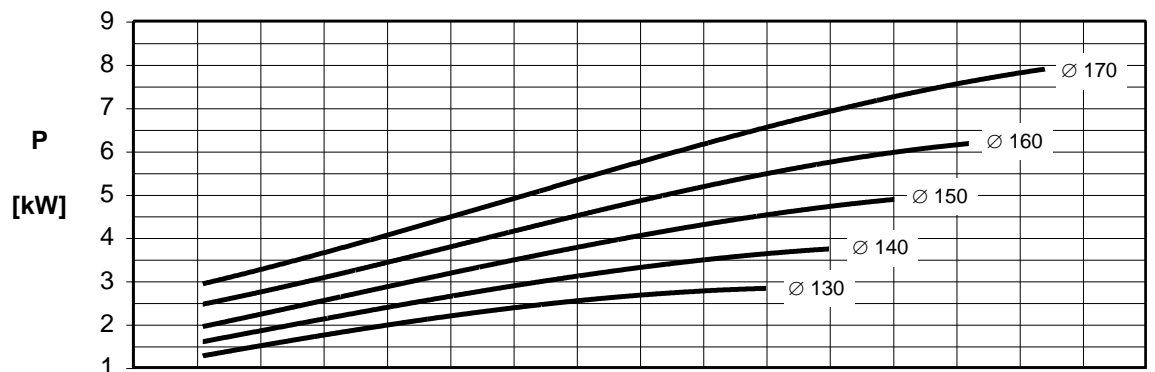
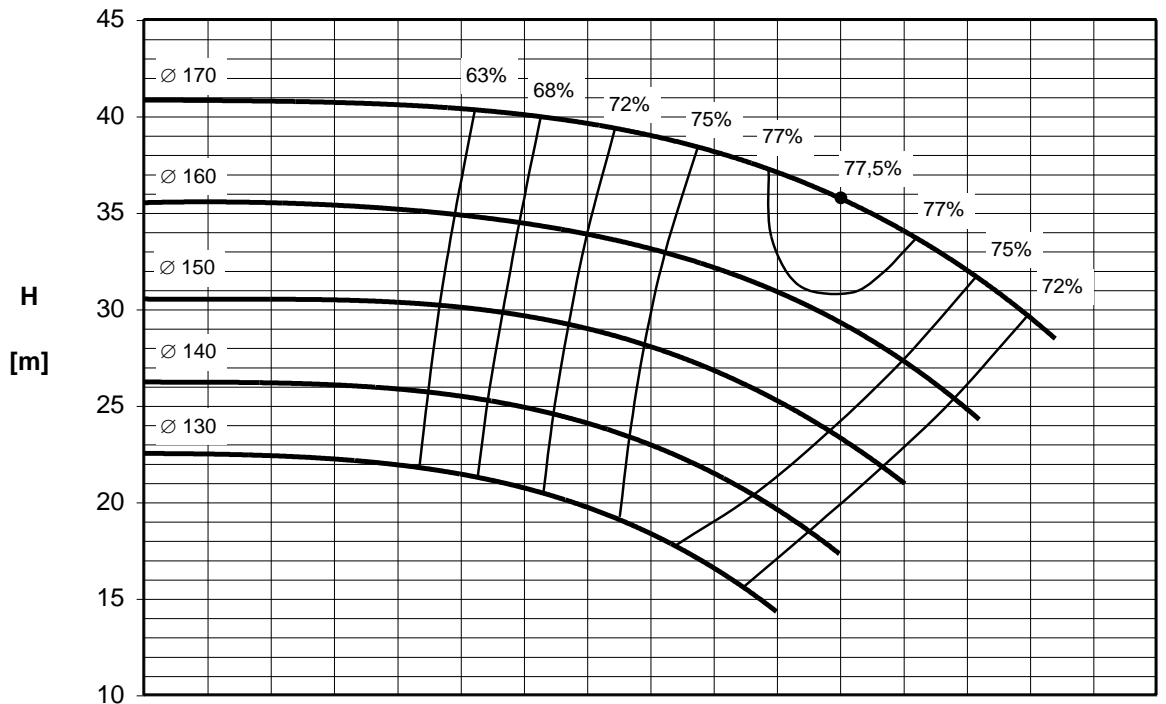
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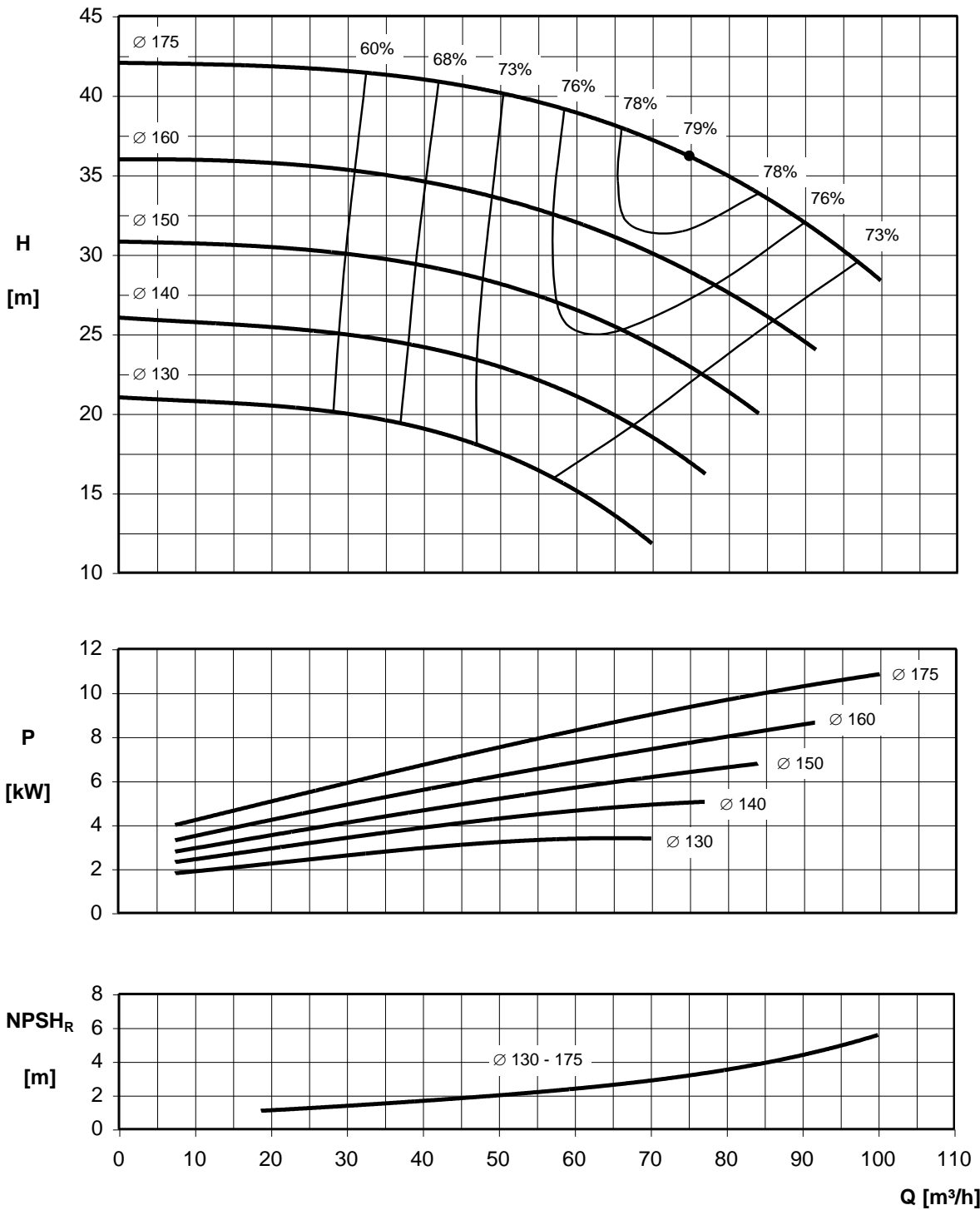
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| <b>Baureihe / series</b>               | <b>ZEND</b> | <b>ZDND</b> |  |  |  |  |  |  |  |



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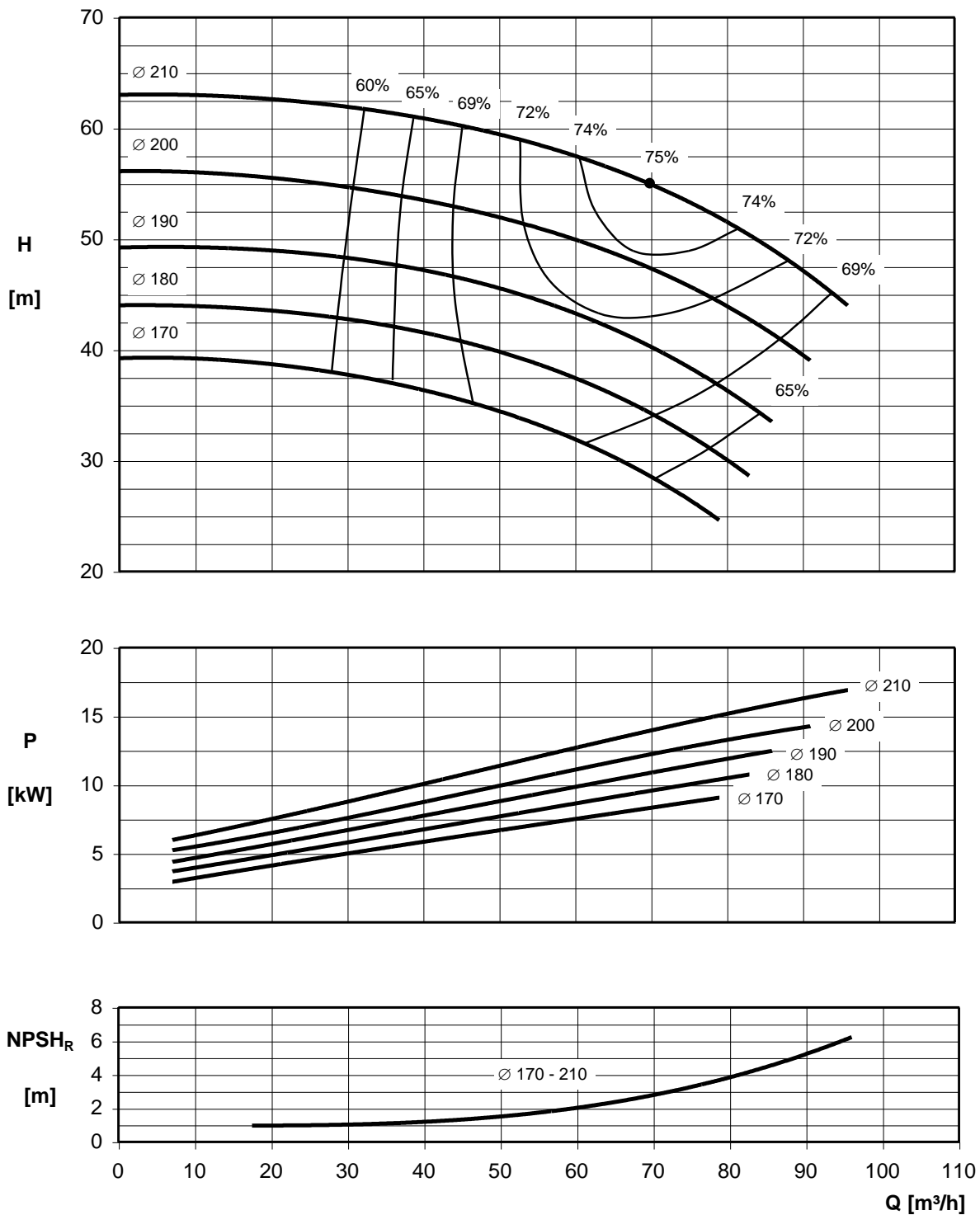


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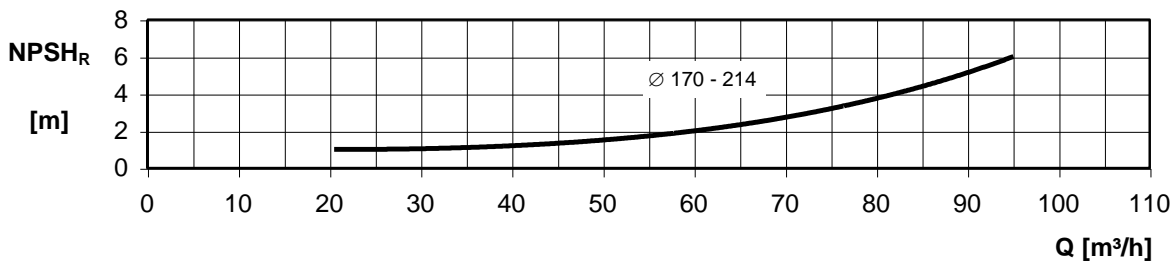
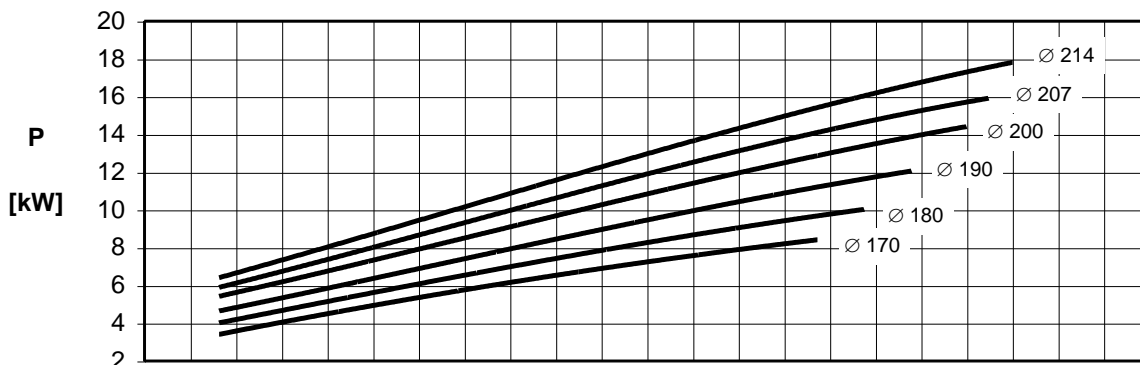
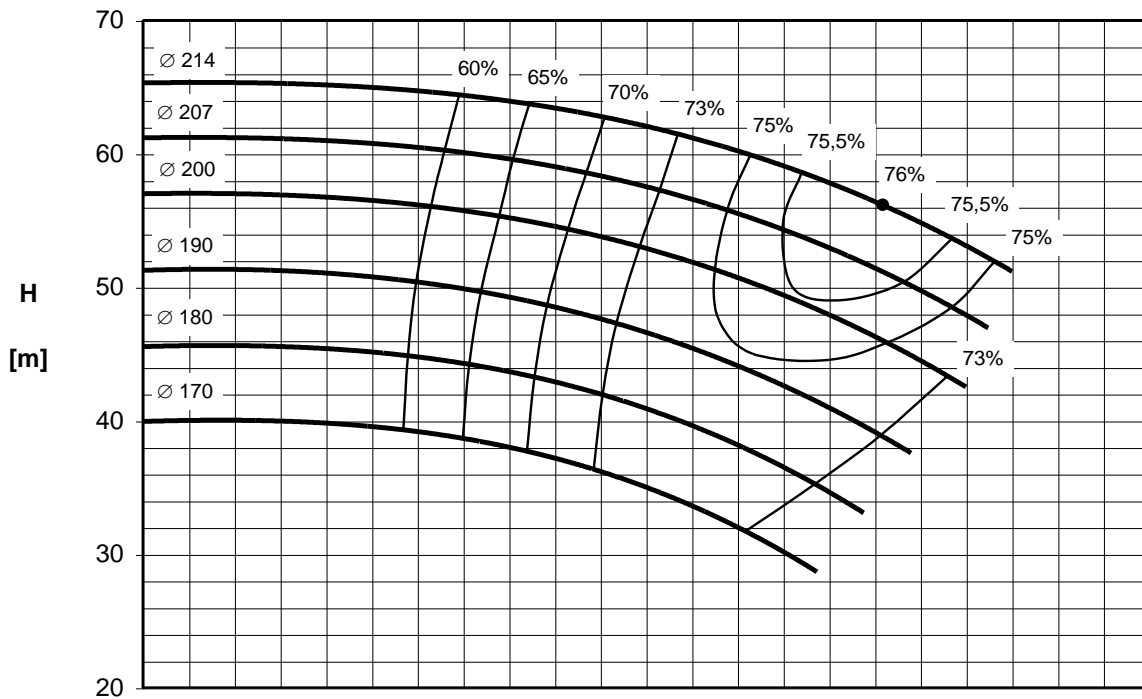
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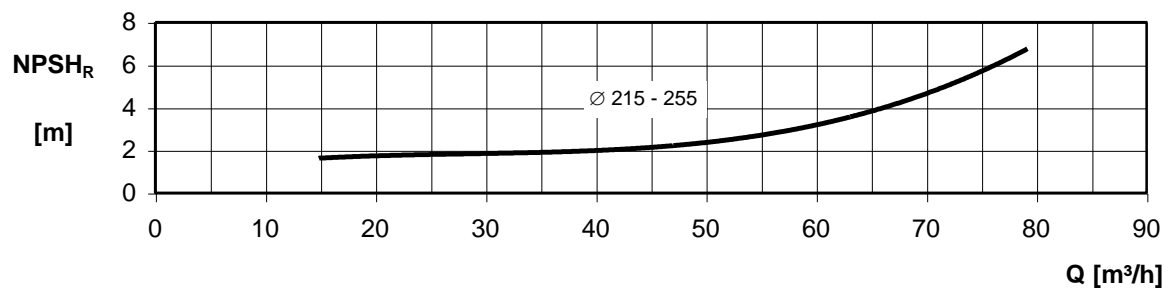
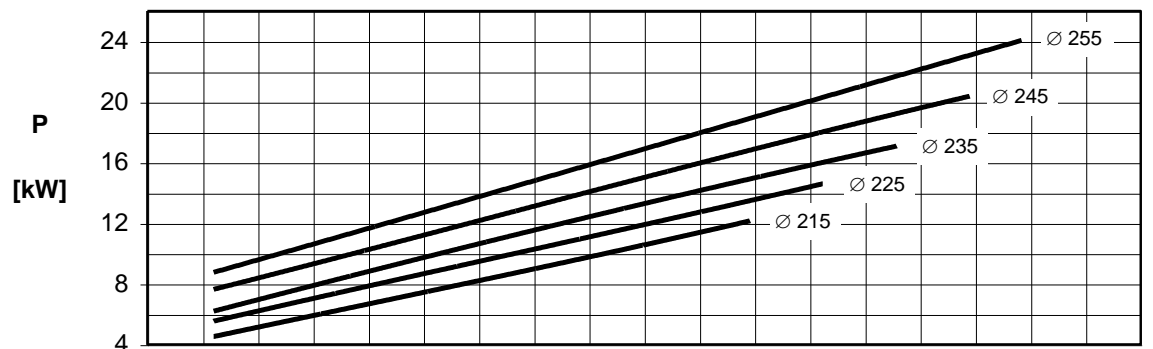
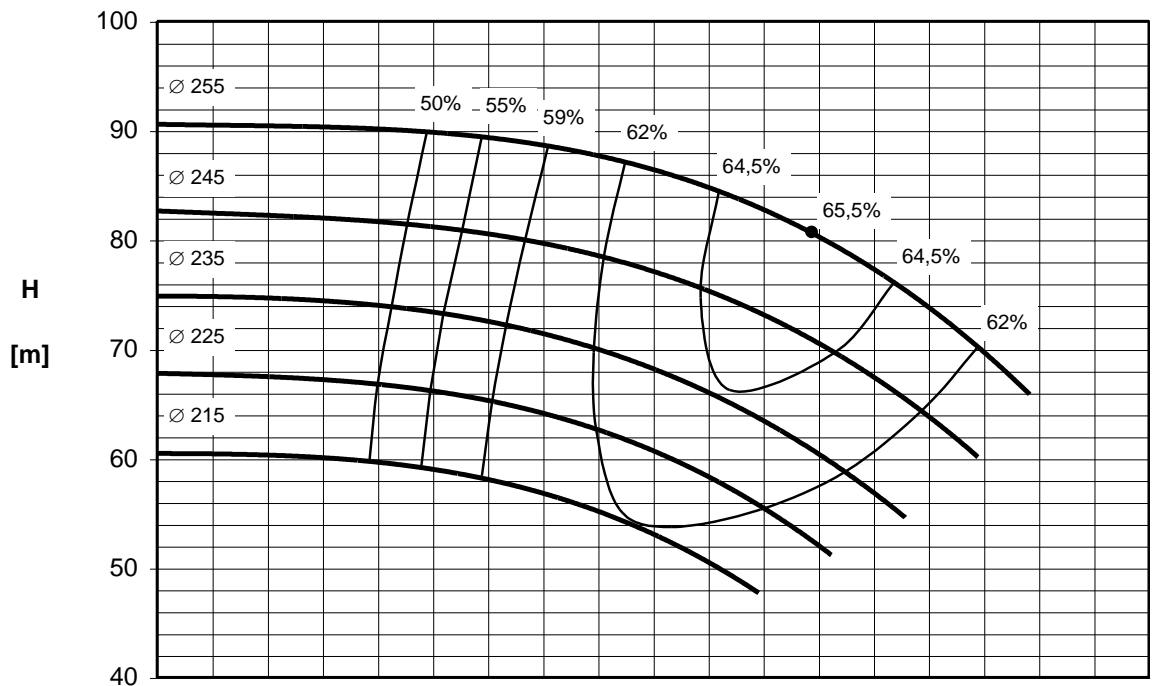
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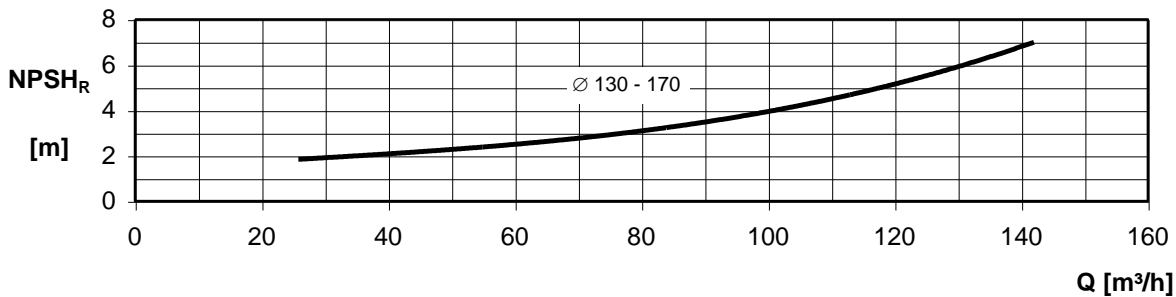
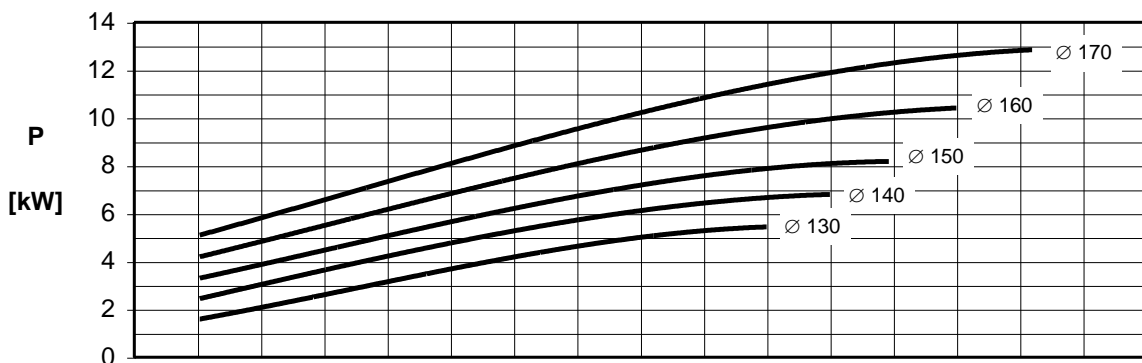
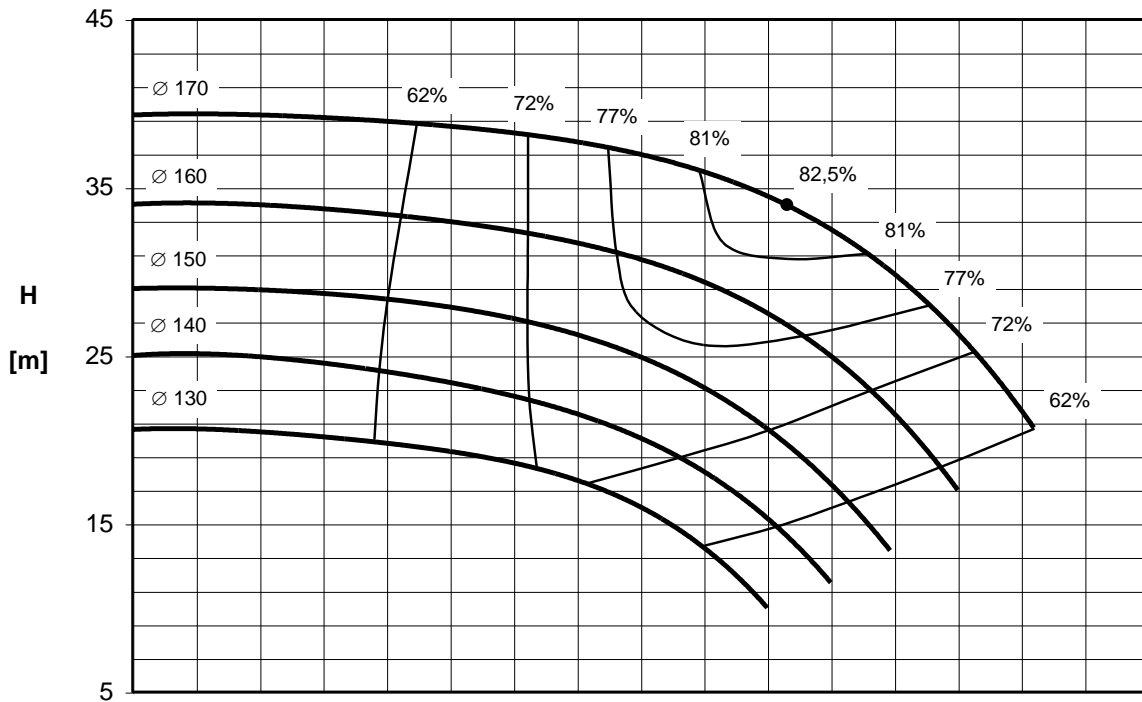
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|------------------------------|------|------|---|--|--|--|--|--|--|
| SIHI <i>SuperNova</i> 050250 |      |      | Nenn Drehzahl / nominal speed<br>2900 min <sup>-1</sup> |  |  |  | <br><small>SIHI Pumps</small> |  |  |
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**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive



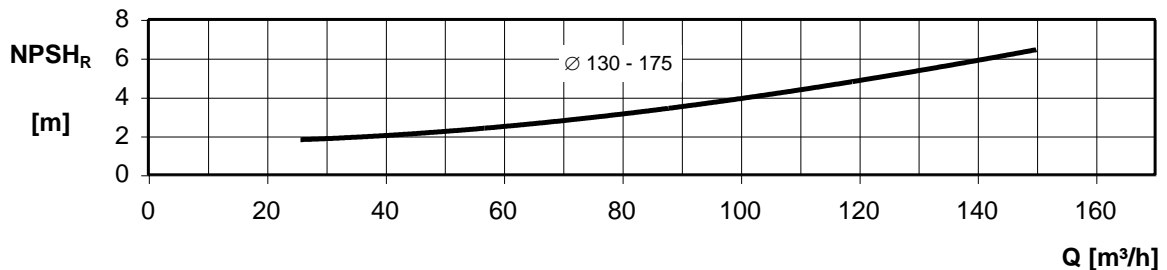
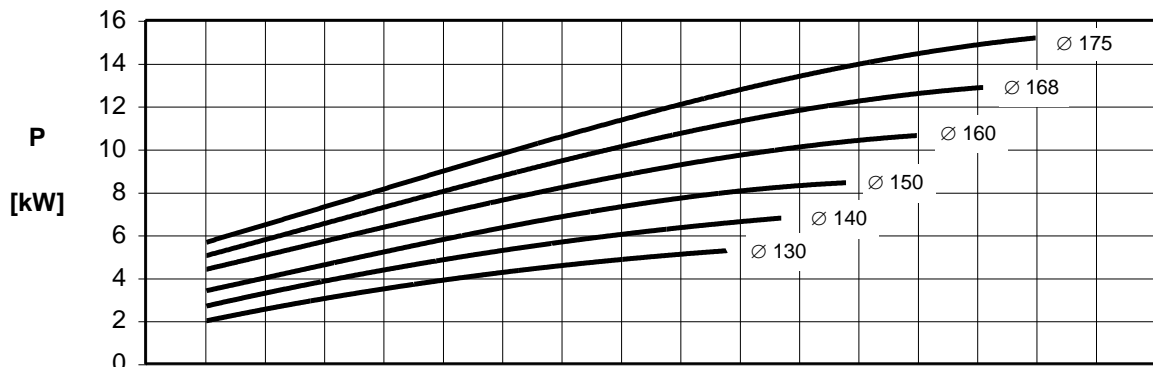
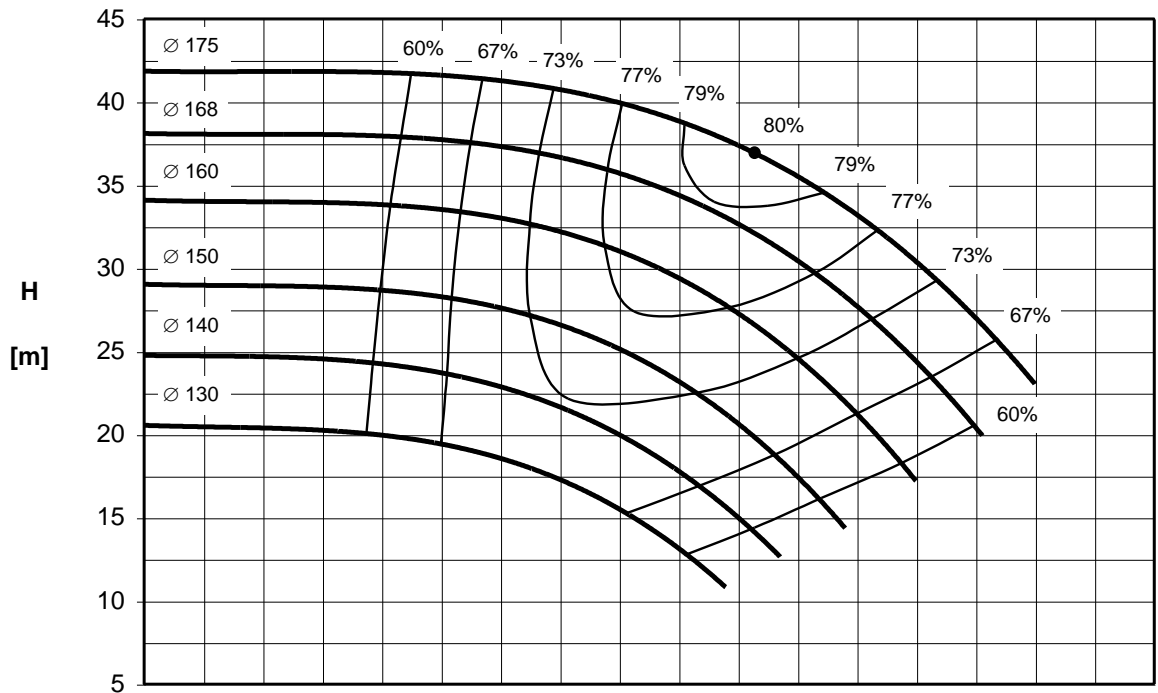
1 m<sup>3</sup>/h = 3,663 Imp g.p.m / 4,405 US g.p.m.      1 m = 3,28 ft

**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
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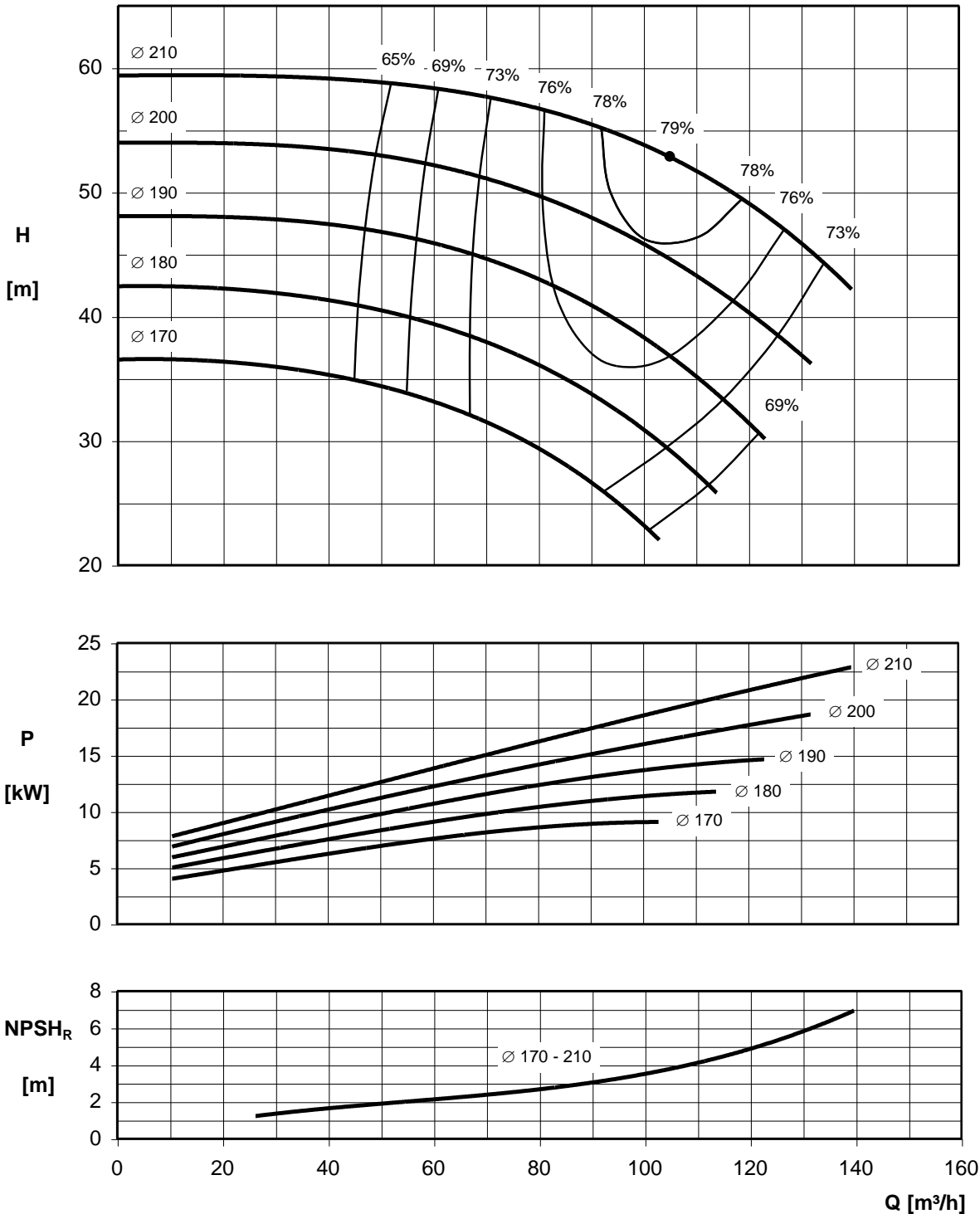
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|--|-------------|--|--|--|--|--|--|
| <b>SIHI<sup>SuperNova</sup> 065160</b> |             | <b>Nenn Drehzahl / nominal speed</b><br><b>2900 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI® Pumps</small> |  |
| <b>Baureihe / series</b>               | <b>ZHND</b> |  |  |  |  |  |  |



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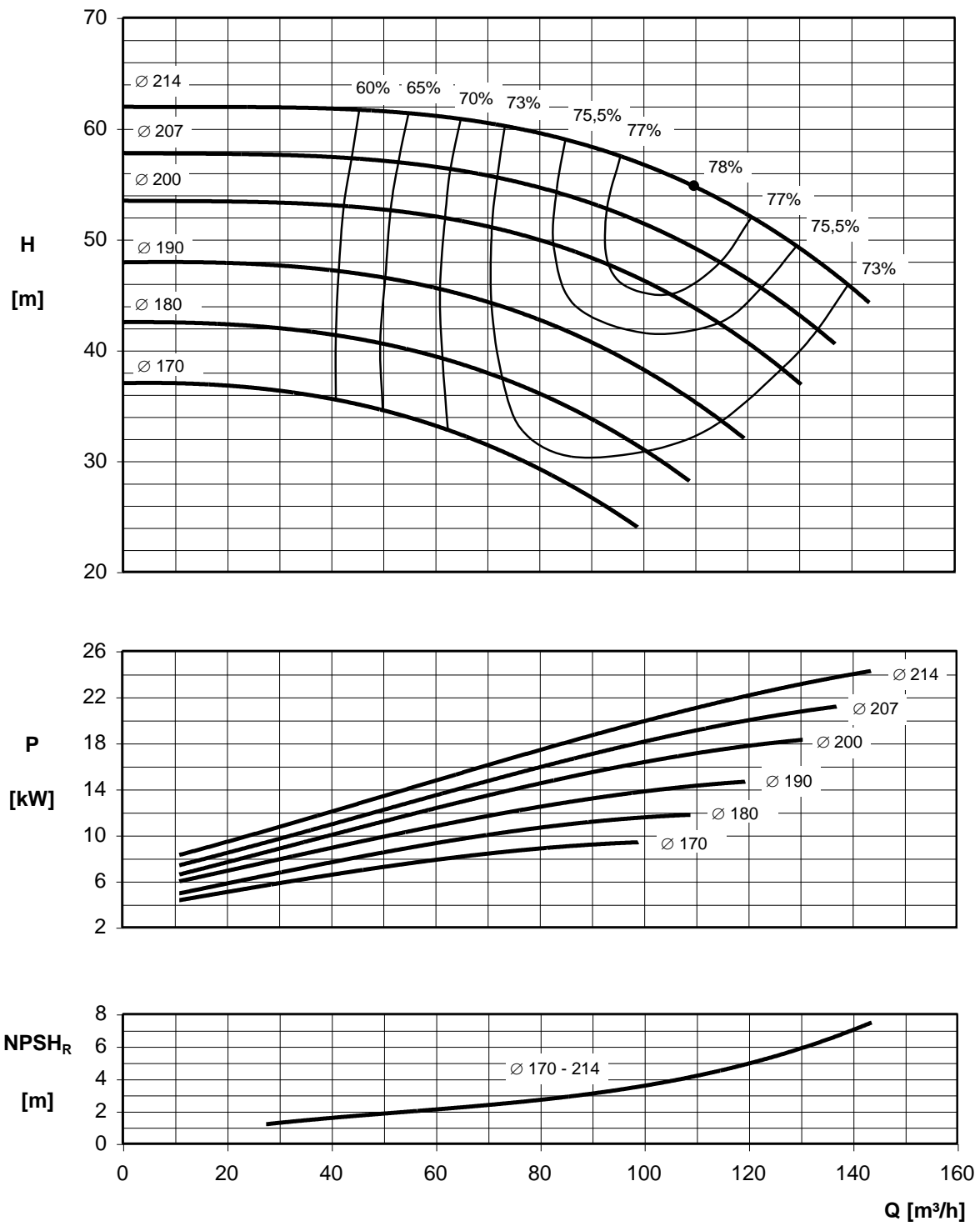
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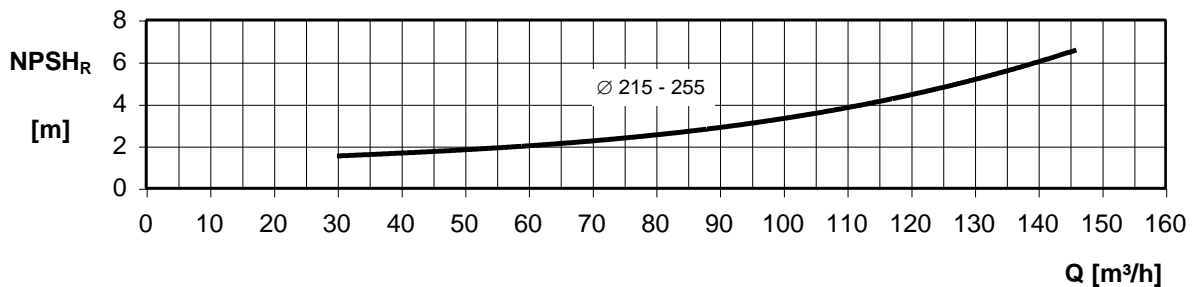
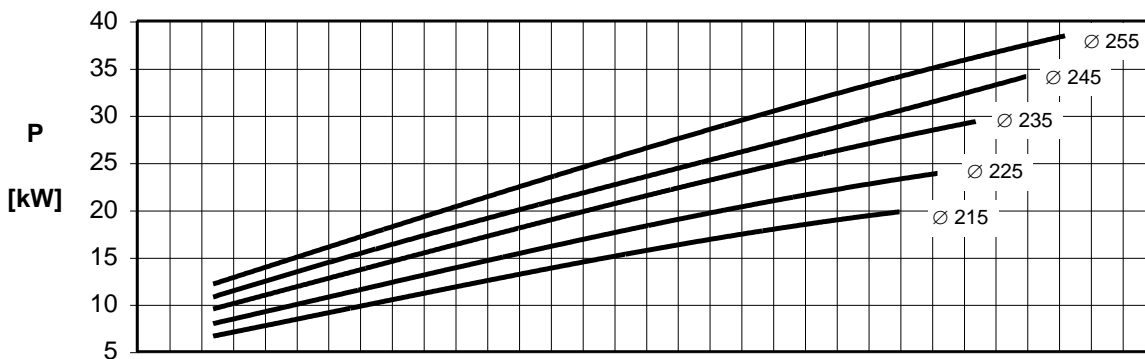
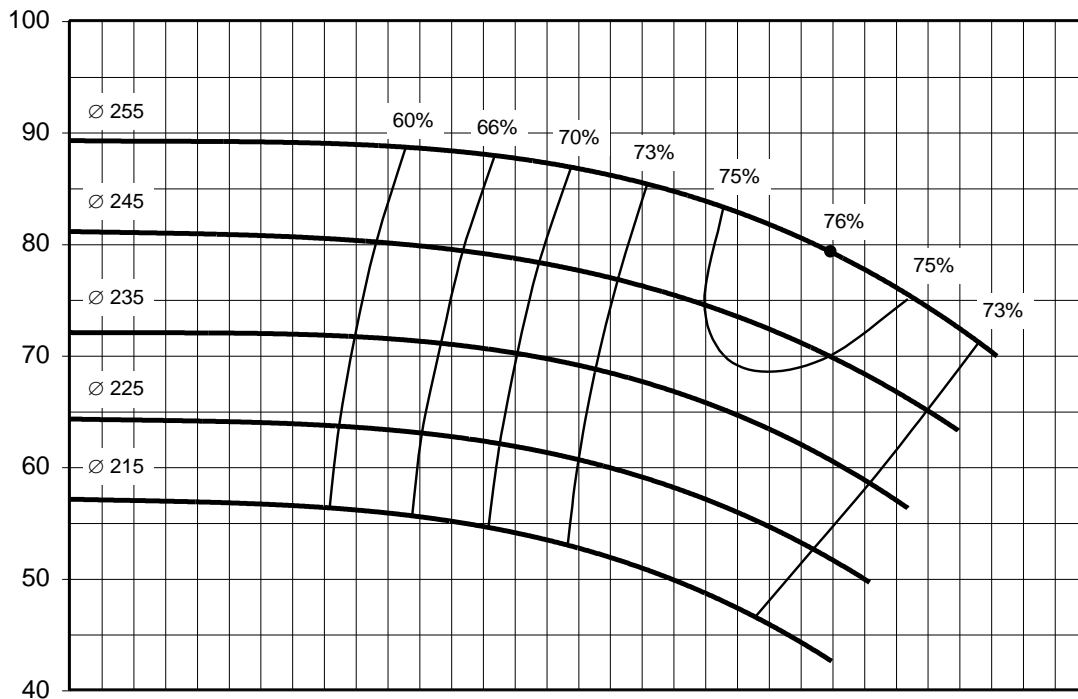
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|------------------------------|------|---|--|--|--|---|--|--|
| SIHI <i>SuperNova</i> 065200 |      | Nenn Drehzahl / nominal speed<br>2900 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |  |
| Baureihe / series            | ZHND |   |  |  |  |   |  |  |



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**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
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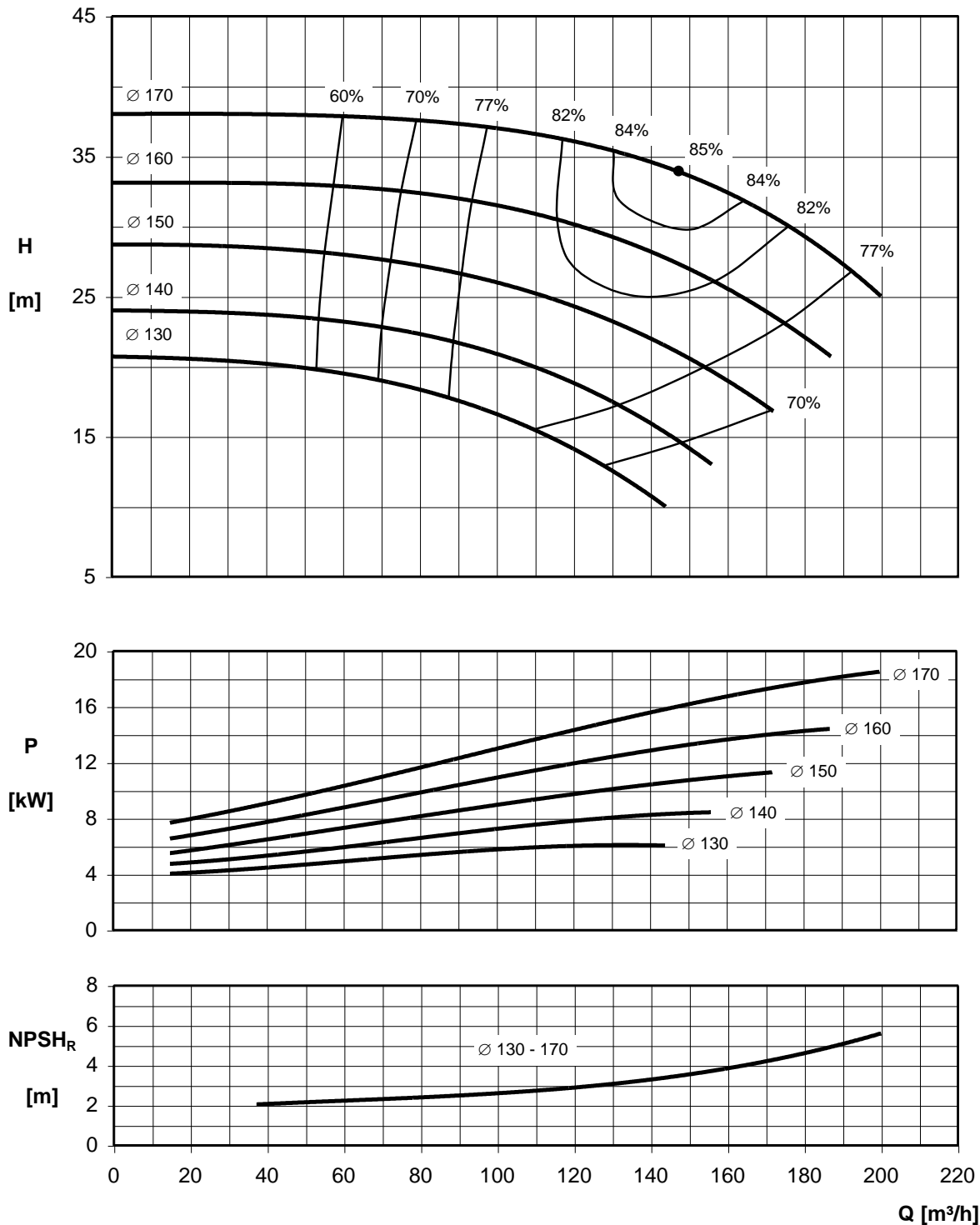
**Bitte beachten:**

Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $\nu \leq 20 \text{ mm}^2/\text{s}$   
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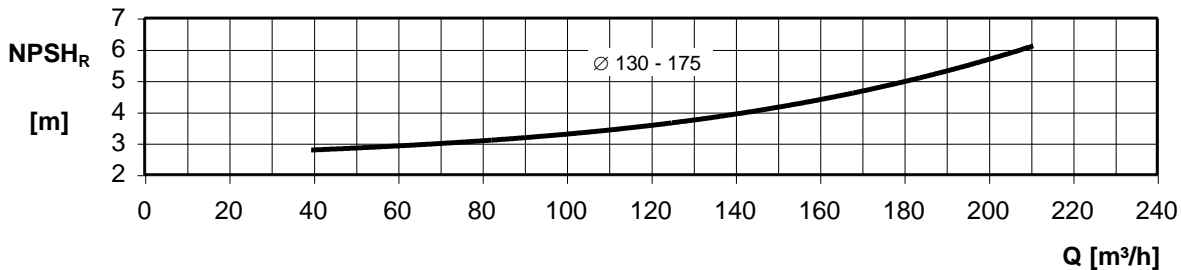
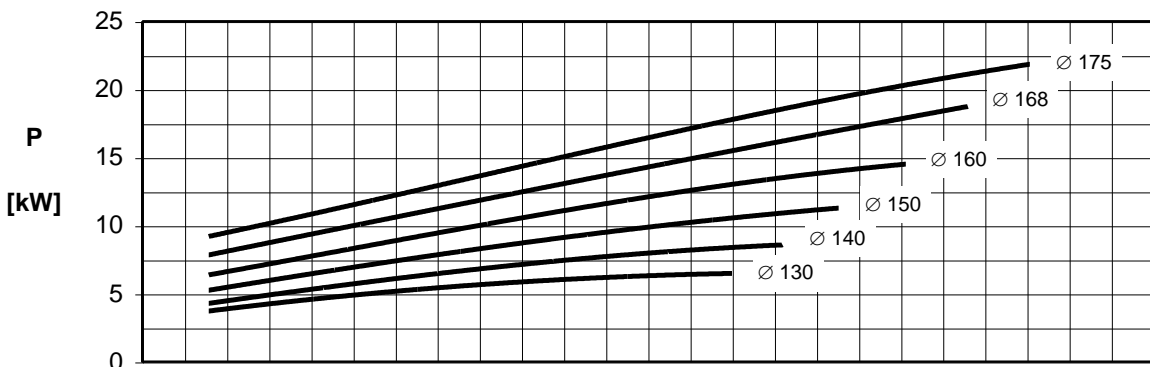
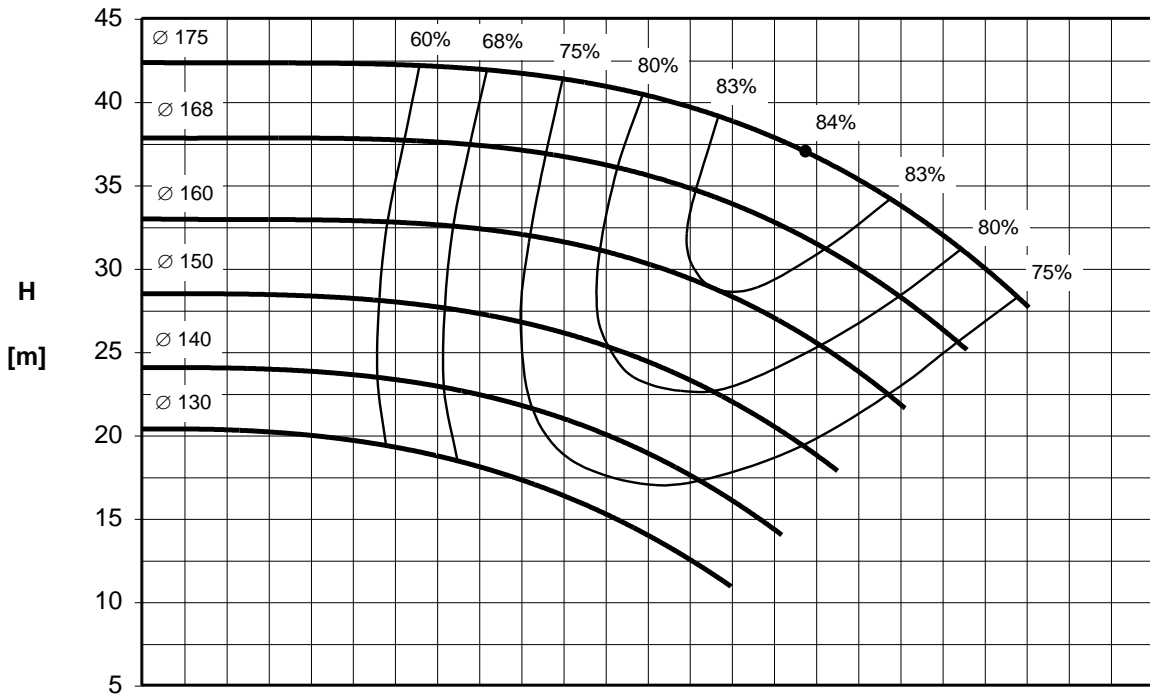
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| SIHI <sup>SuperNova</sup> 080160 |      |      | Nenn Drehzahl / nominal speed<br>2900 min <sup>-1</sup> |  |  |  |  |  |  |
| Baureihe / series                | ZEND | ZDND |   |  |  |  |   |  |  |



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**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
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NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
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**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
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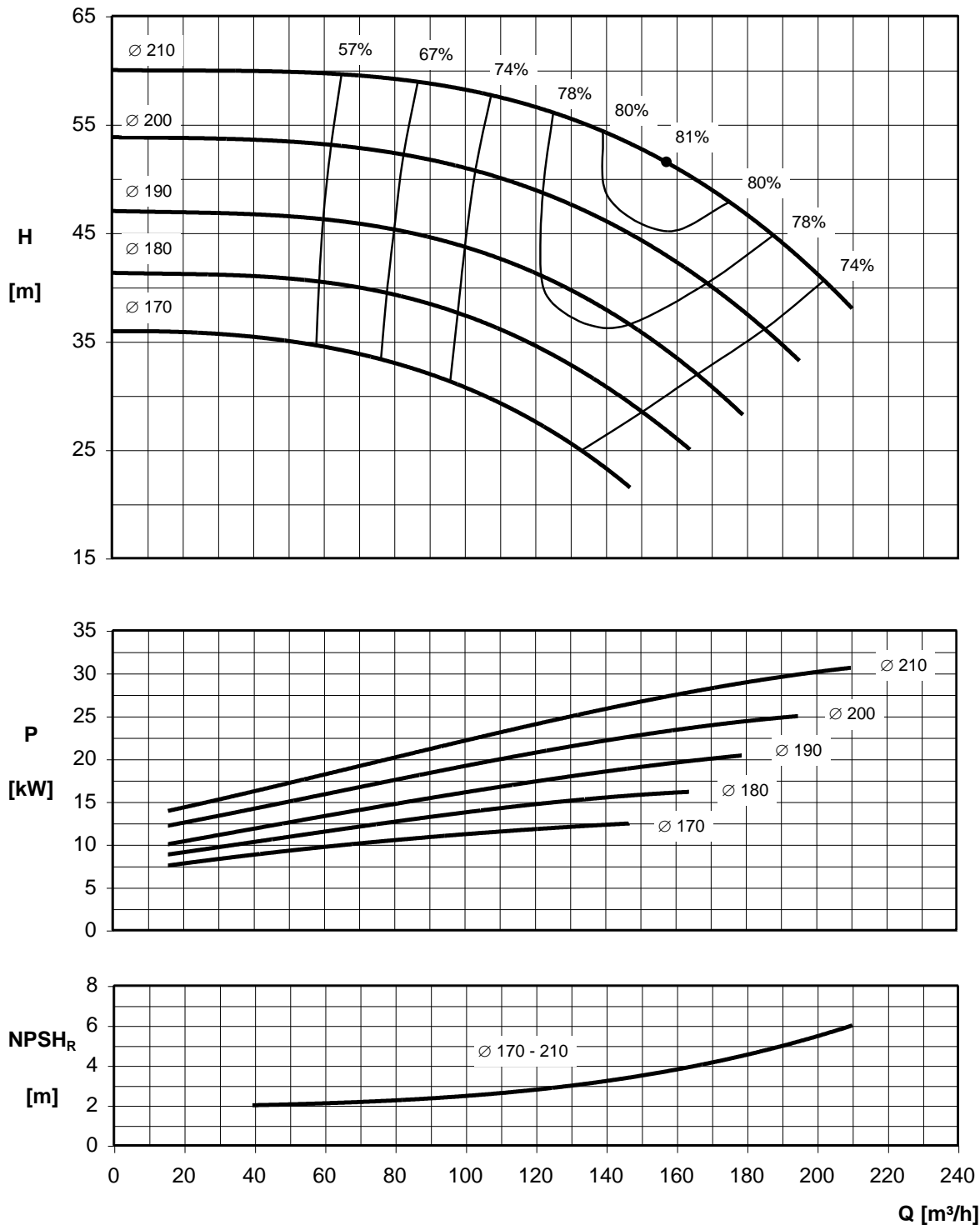
**Bitte beachten:**

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 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
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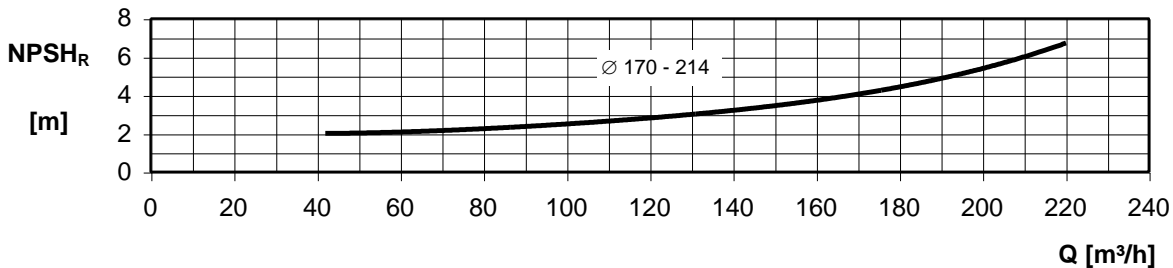
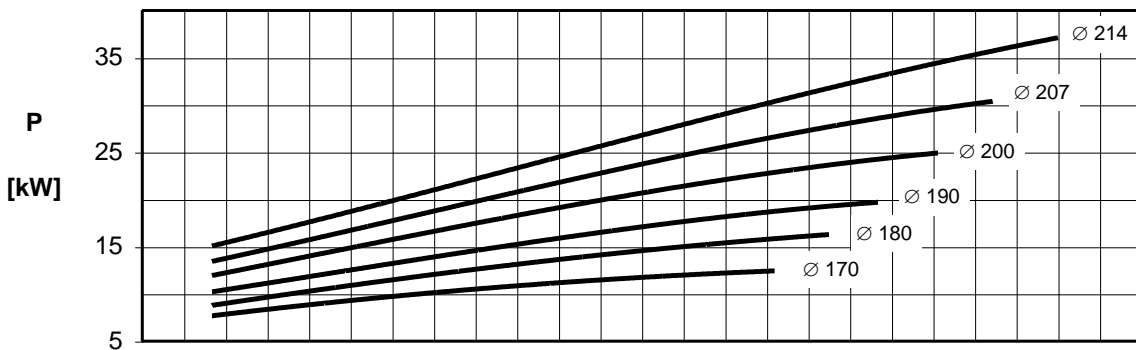
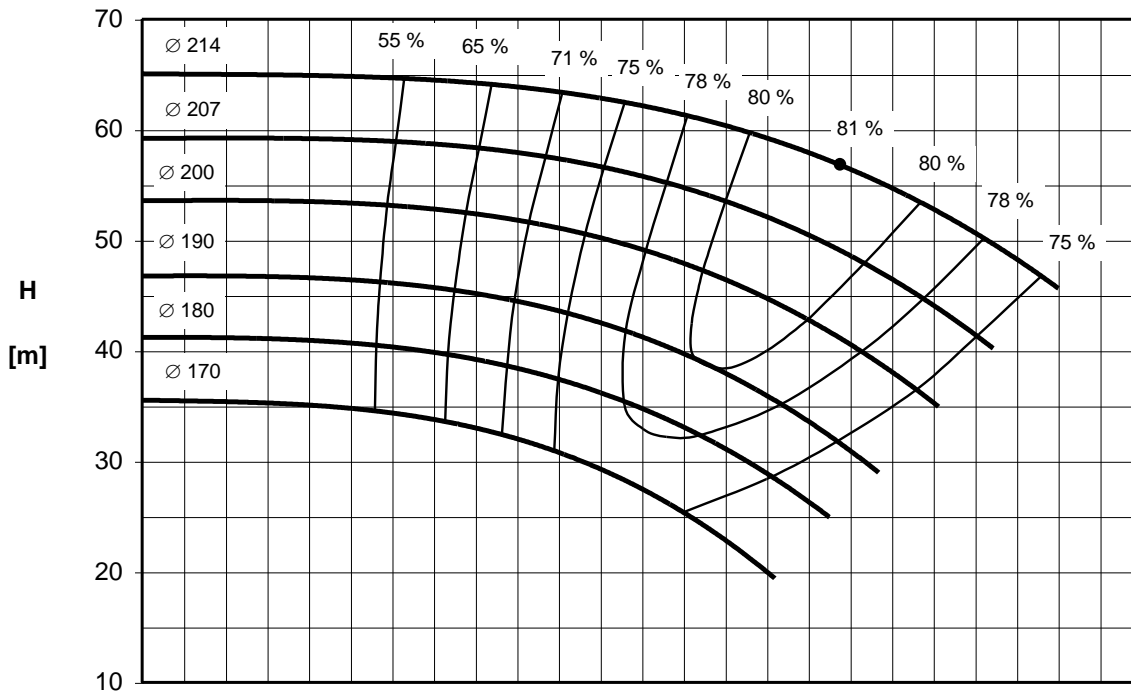
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| SIHI <sup>SuperNova</sup> 080200 |      |      | Nenn Drehzahl / nominal speed<br>2900 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |  |
| Baureihe / series                | ZEND | ZDND |   |  |  |  |   |  |  |



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**Bitte beachten:**

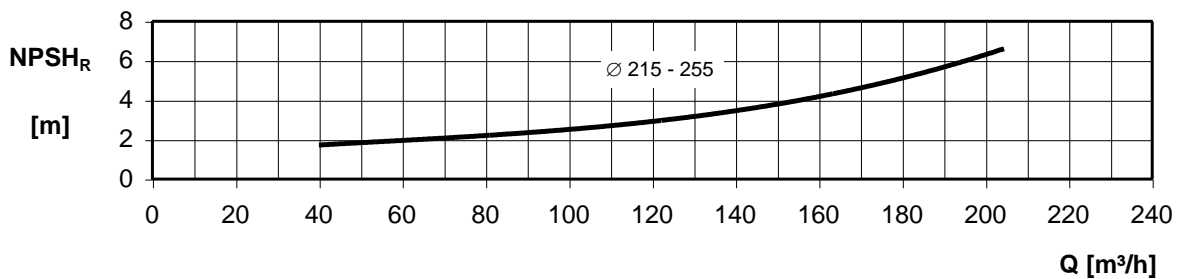
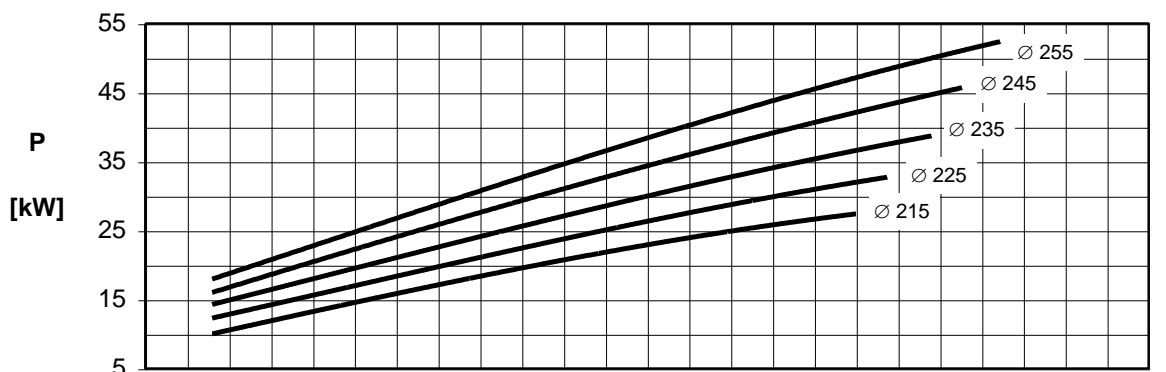
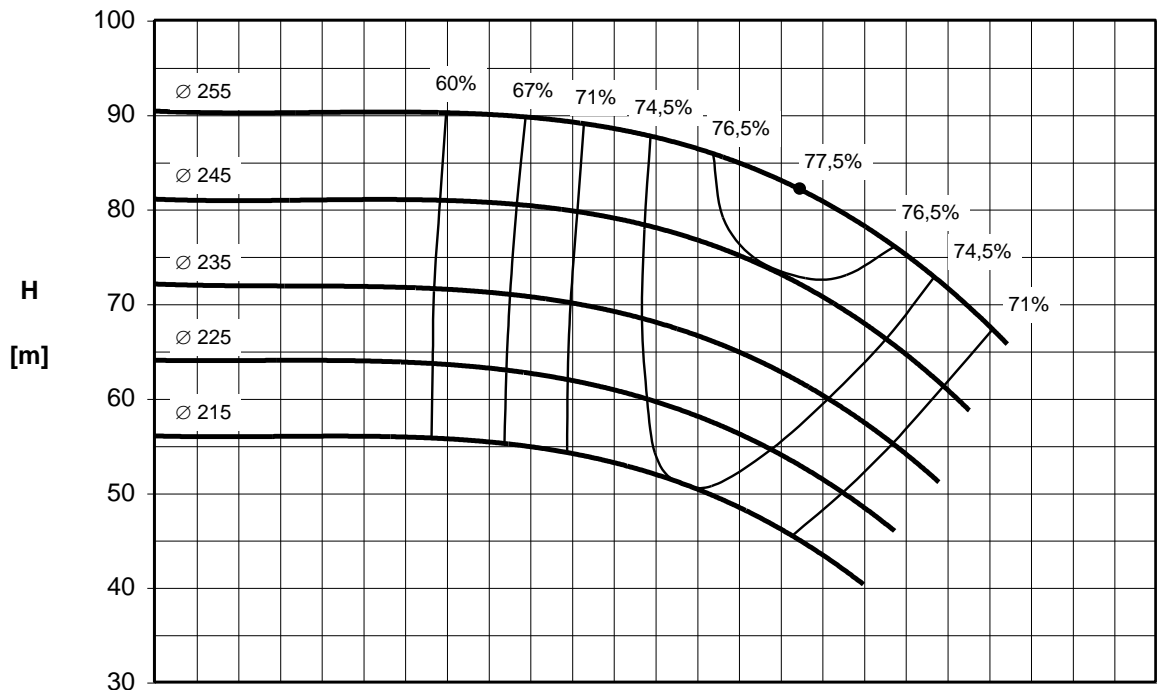
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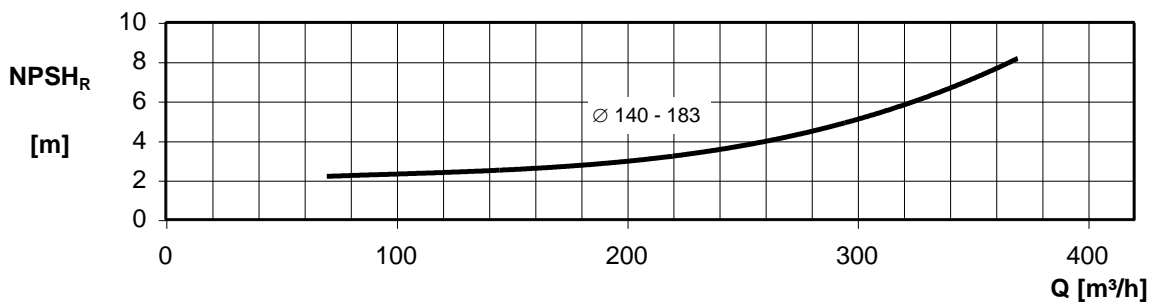
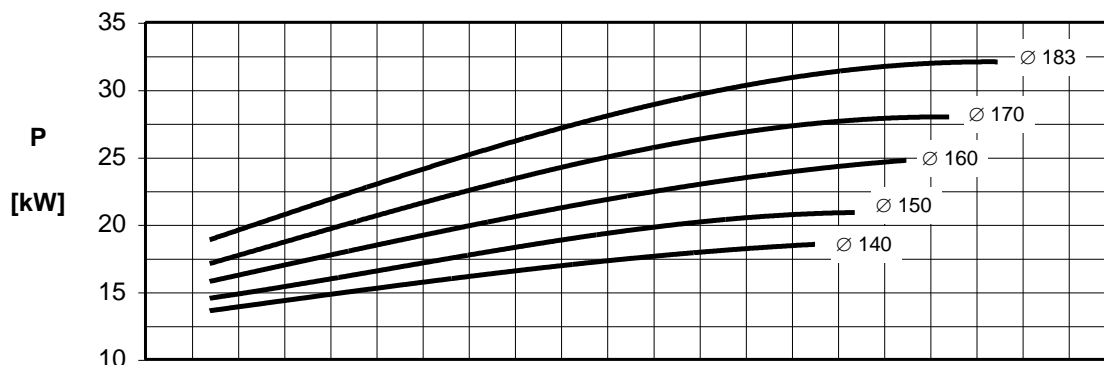
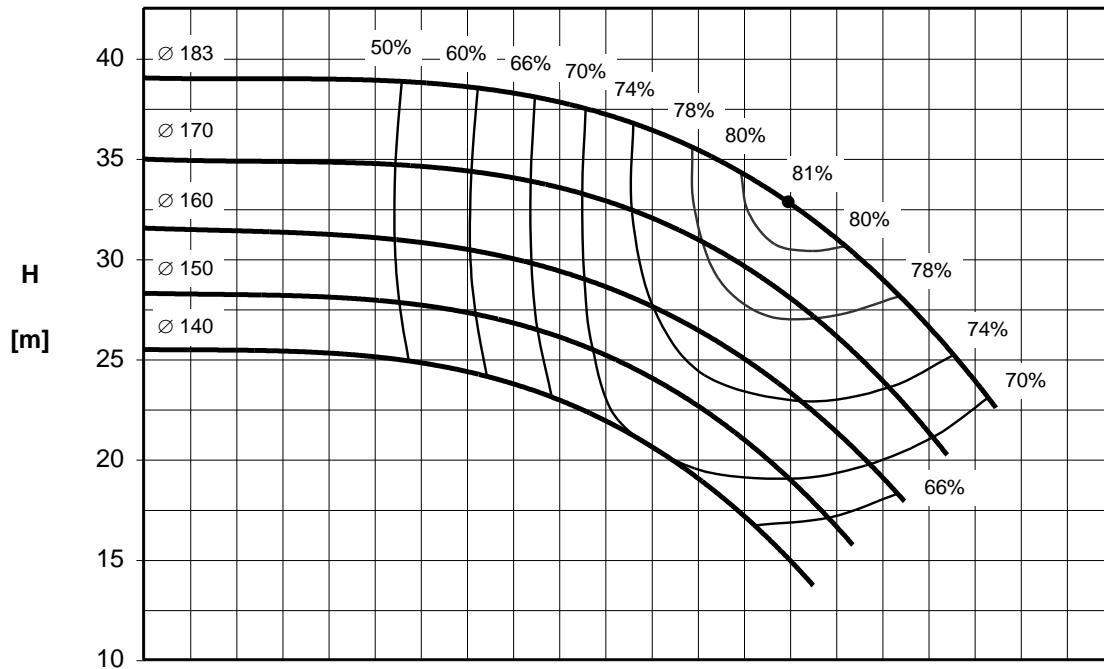
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|----------------------------------|------|------|---|--|--|--|---|--|--|
| SIHI <sup>SuperNova</sup> 080250 |      |      | Nenn Drehzahl / nominal speed<br>2900 min <sup>-1</sup> |  |  |  | <br><small>SIHI® Pumps</small> |  |  |
| Baureihe / series                | ZEND | ZDND | ZHND  |  |  |  |   |  |  |



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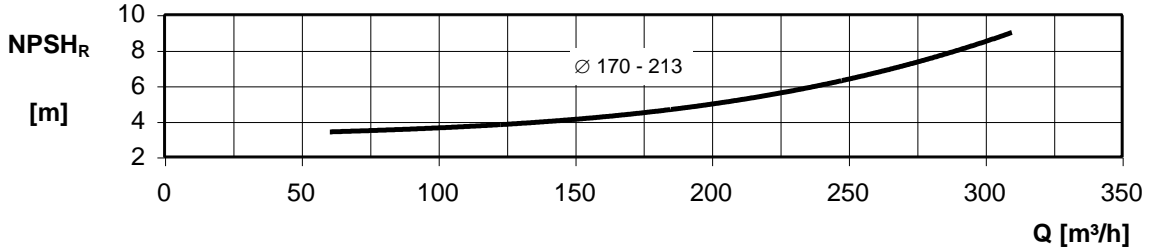
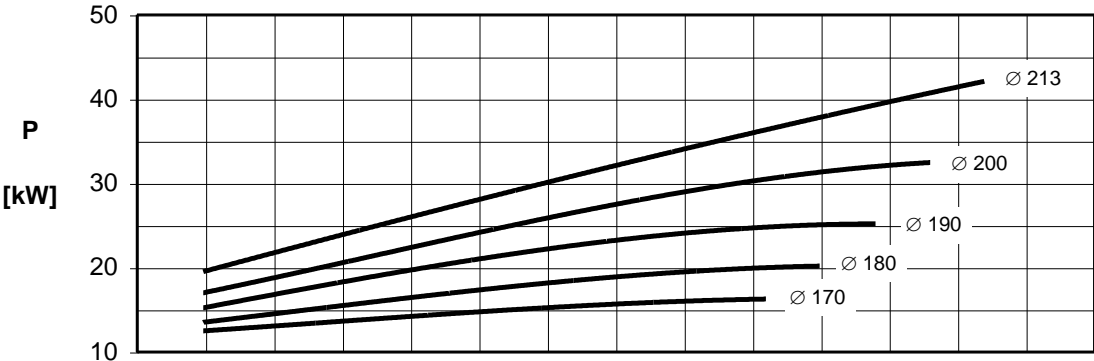
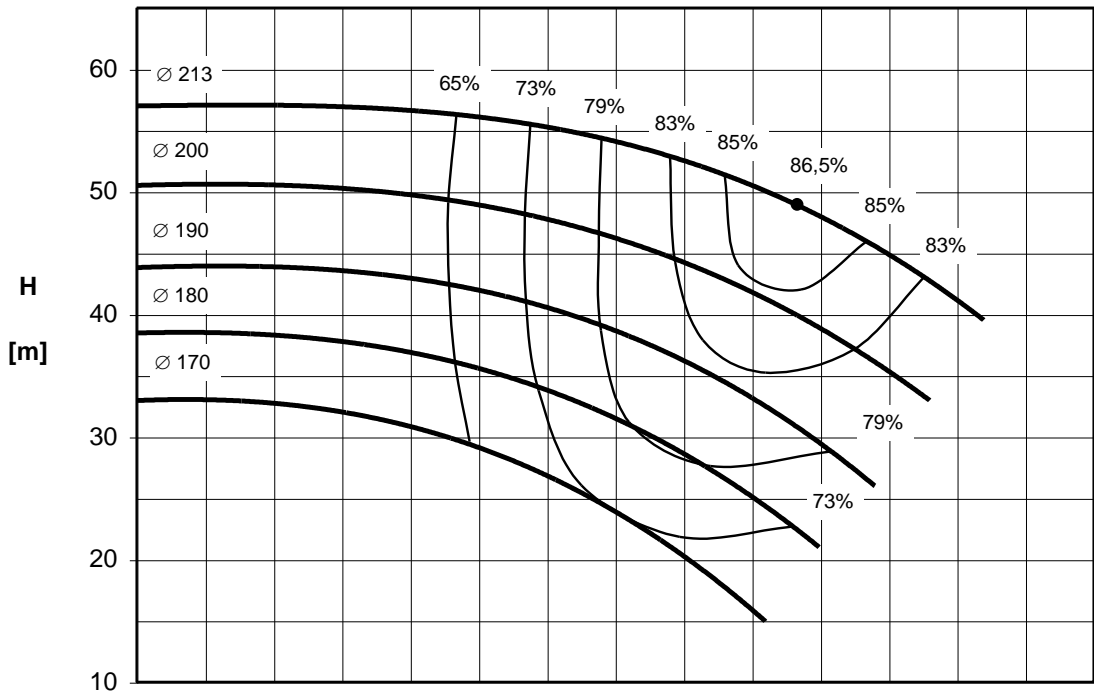
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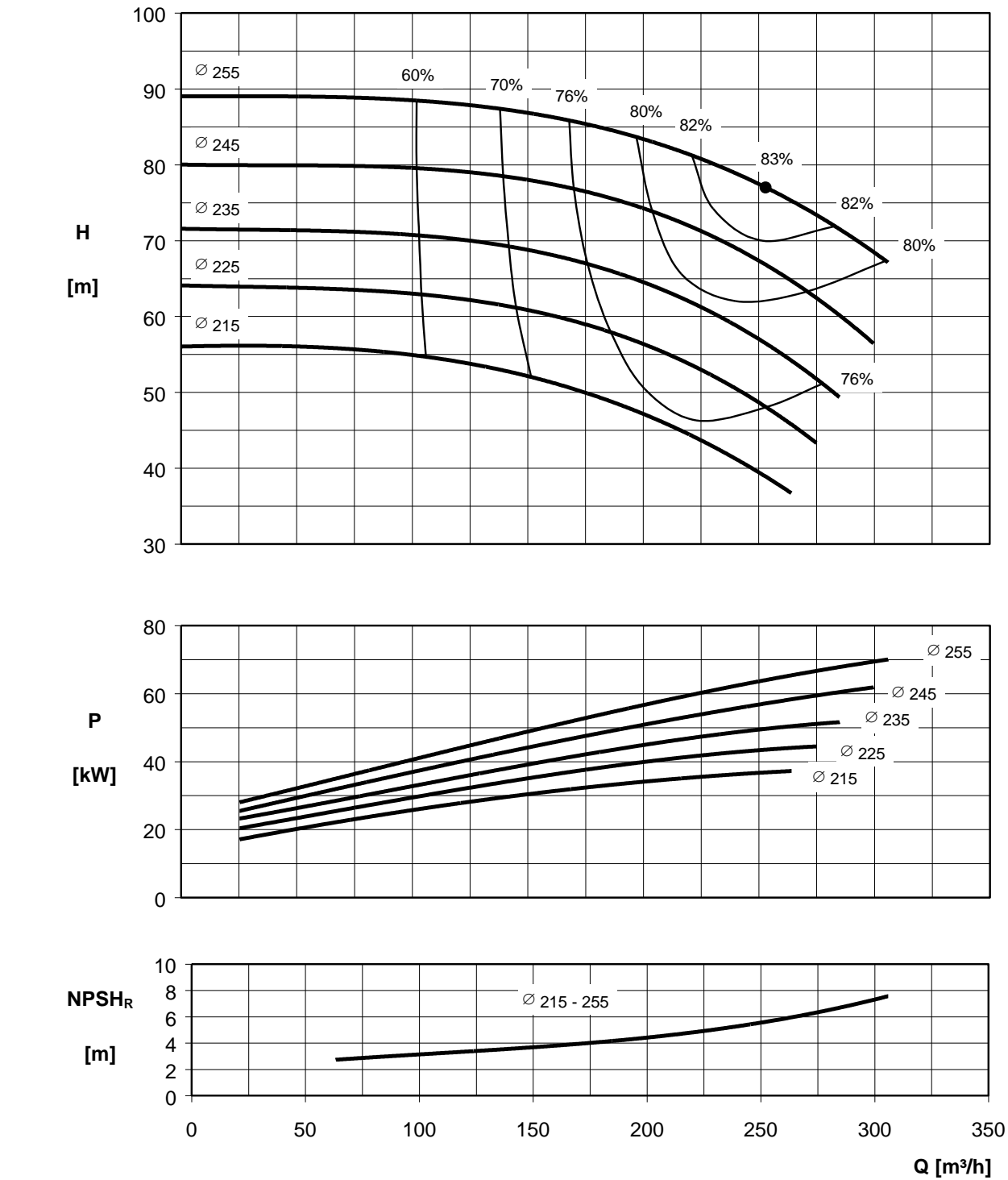
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|--|-------------|-------------|--|--|--|--|---|--|--|
| <b>SIHI<sup>SuperNova</sup> 100200</b> |             |             | <b>Nenn Drehzahl / nominal speed</b><br><b>2900 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZEND</b> | <b>ZDND</b> | <b>ZHND</b>  |  |  |  |   |  |  |



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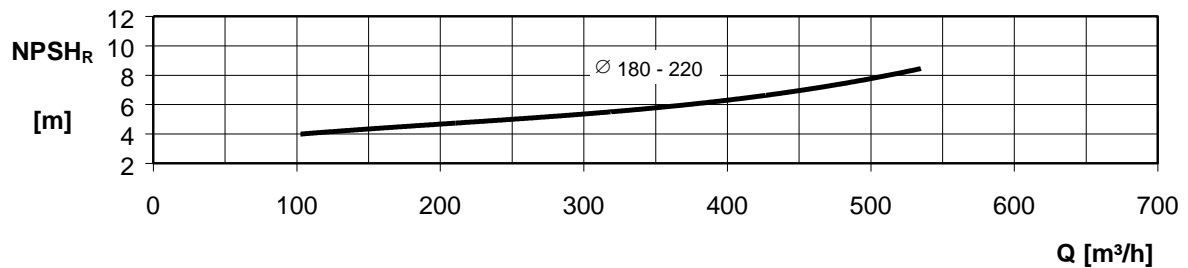
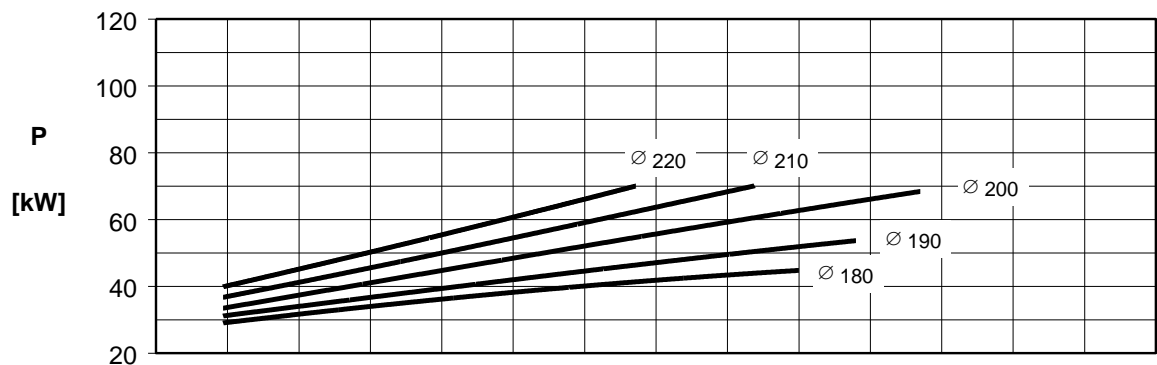
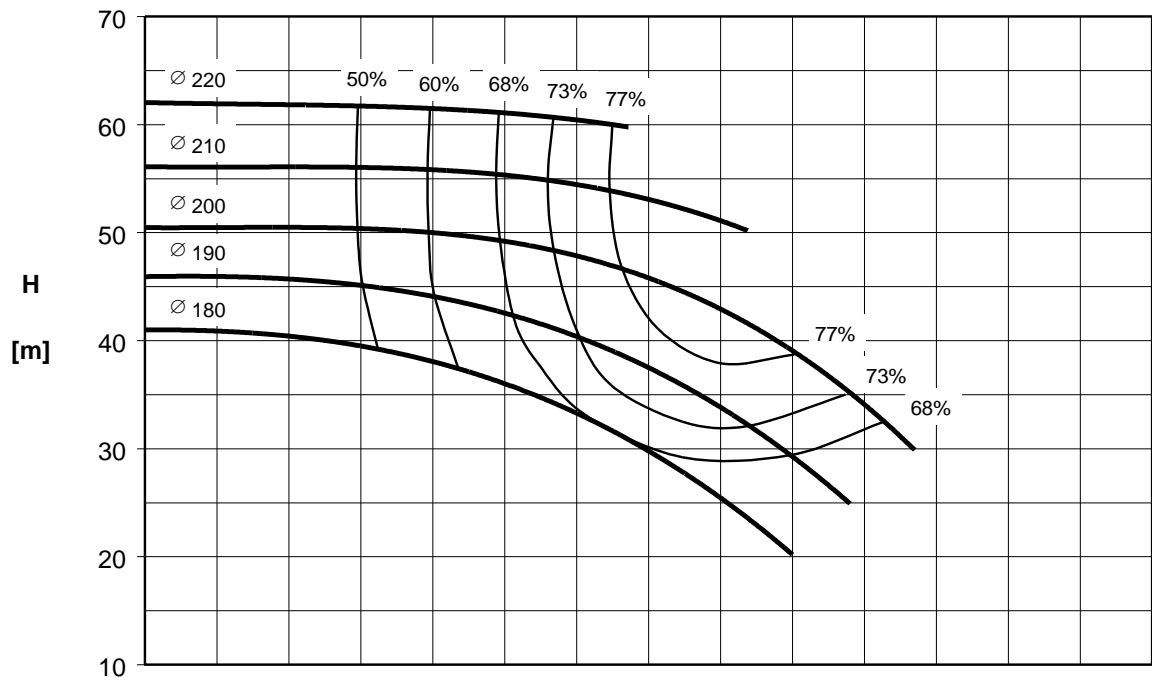
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|  |             |             |  |  |  |  |   |  |  |
|--|-------------|-------------|--|--|--|--|---|--|--|
| <b>SIHI<sup>SuperNova</sup> 125200</b> |             |             | <b>Nenn Drehzahl / nominal speed</b><br><b>2900 min<sup>-1</sup></b> |  |  |  | <b>FLOWSERVE</b><br><small>SIHI Pumps</small> |  |  |
| <b>Baureihe / series</b>               | <b>ZEND</b> | <b>ZDND</b> | <b>ZHND</b>  |  |  |  |   |  |  |



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**Bitte beachten:** Gültig für:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Garantiewerte: Material 1B nach ISO 9906 Klasse 2; Material 2B nach ISO 9906 Anhang A  
 NPSH<sub>R</sub> - garantierte NPSH<sub>R</sub> Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m  
 Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

**Please observe:** Valid for:  $\rho = 1 \text{ kg/dm}^3$ ,  $v \leq 20 \text{ mm}^2/\text{s}$   
 Guarantee values: material 1B according to ISO 9906 Grade 2; material 2B according to ISO 9906 annex A  
 NPSH<sub>R</sub> - for guaranteed NPSH<sub>R</sub> values, add minimum 0,5 m safety margins to the values determined from the curves  
 Power consumption does not include Eddy Current Losses for pumps with magnetic drive