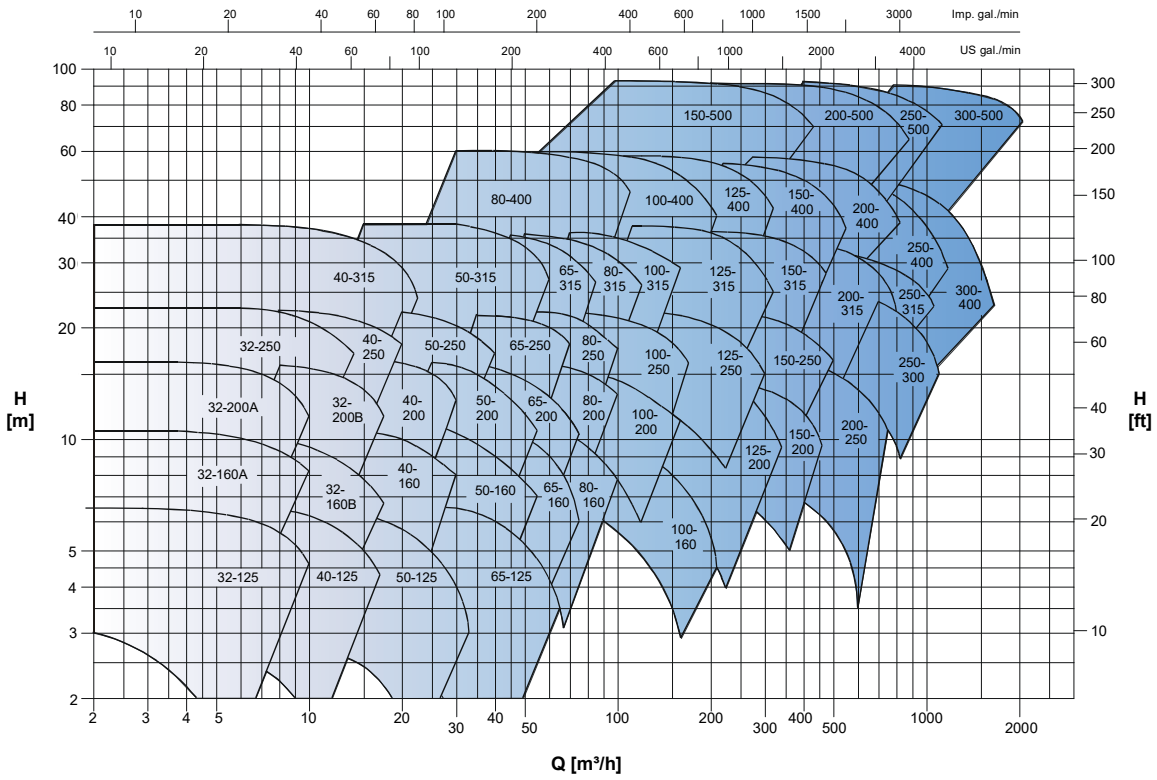
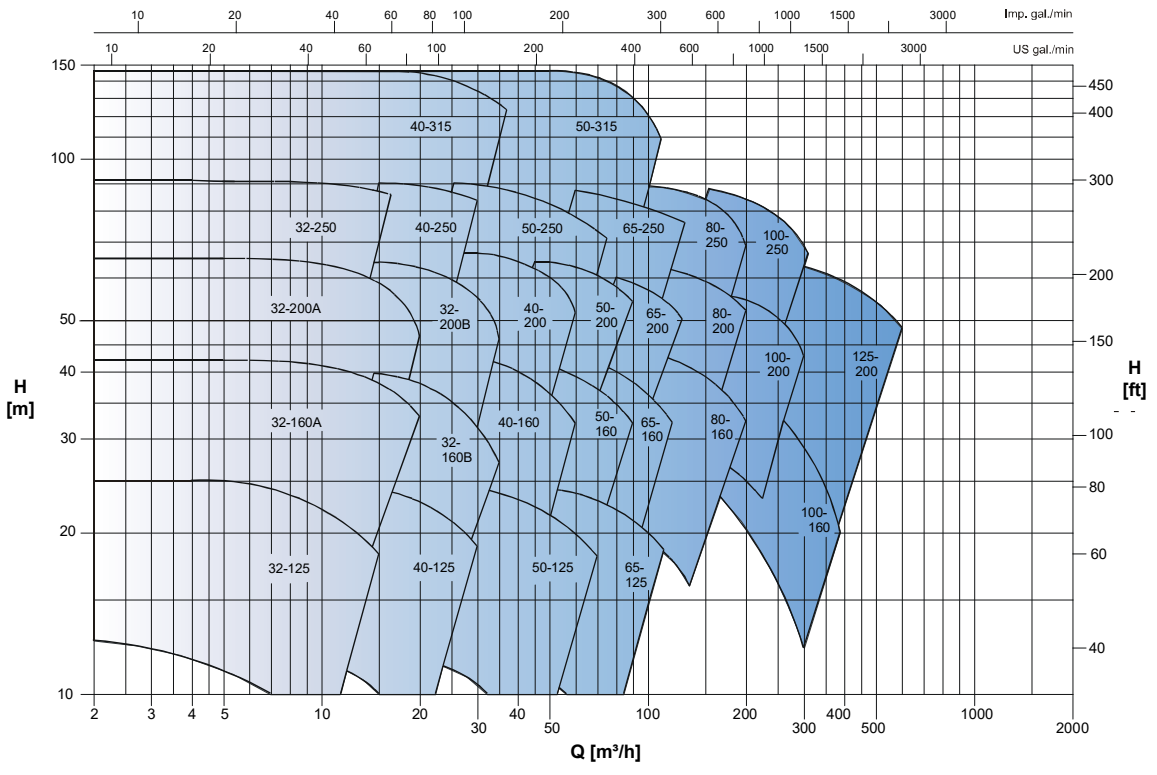
KENNLINIENÜBERSICHT 50 Hz

RANGE COVERAGE 50 Hz

n = 1450 1/min



n = 2900 1/min



Baureihe
series

ZLND	Spiralgehäusepumpe in Prozessbauweise nach EN 733 / DIN 24255 *End suction pump, process type* *according to EN 733 / DIN 24255*
ZLKD	Spiralgehäusepumpe in Kompaktbauweise nach EN 733 / DIN 24255 *End suction pump, compact design* *according to EN 733 / DIN 24255*
ZTND	Spiralgehäusepumpe in Prozessbauweise für Wärmeträgeröle nach EN 733 / DIN 24255 *End suction pump, process type for heat transfer oil* *according to EN 733 / DIN 24255*
ZTKD	Spiralgehäusepumpe in Kompaktbauweise für Wärmeträgeröle nach EN 733 / DIN 24255 *End suction pump, compact design for heat transfer oil* *according to EN 733 / DIN 24255*

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 nach ISO 9906, Anhang A.
Guarantee values 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) NPSHR - 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.
NPSHR - NPSH-values are measured with degased 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*	Qmin Faktor / *Factor*	Qmax Faktor / *Factor*
ZLND ZLKD ZTND ZTKD	032125	0,3	1,2
	032160A	0,3	1,2
	032160B	0,3	1,2
	032200A	0,3	1,2
	032200B	0,3	1,2
	032250	0,3	1,1
	040125	0,3	1,2
	040160	0,3	1,2
	040200	0,3	1,2
	040250	0,3	1,1
	040315	0,3	1,1
	050125	0,3	1,2
	050160	0,3	1,2
	050200	0,3	1,1
	050250	0,3	1,2
	050315	0,3	1,2
	065125	0,3	1,2
	065160	0,3	1,2
	065200	0,3	1,2
	065250	0,3	1,1
	065315	0,3	1,2
	080160	0,3	1,2
	080200	0,3	1,2
	080250	0,3	1,2
	080315	0,3	1,2
	080400	0,3	1,2
	100160	0,5	1,2
	100200	0,5	1,2
	100250	0,5	1,1
	100315	0,3	1,2
	100400	0,3	1,2
	125200	0,5	1,2
	125250	0,5	1,2
	125315	0,3	1,2
	125400	0,3	1,2
	150200	0,5	1,1
	150250	0,3	1,1
	150315	0,3	1,2
	150400	0,3	1,2
	150500	0,3	1,2
	200250	0,7	1,2
	200315	0,7	1,2
	200400	0,7	1,2
	200-500	0,5	1,2

Typ / *Type*	Baugröße / *Size*	Qmin Faktor / *Factor*	Qmax Faktor / *Factor*
ZLND ZLKD ZTND ZTKD	250300	0,5	1,2
	250315	0,5	1,2
	250400	0,5	1,2
	250500	0,5	1,1
	300400	0,5	1,2
	300500	0,5	1,1

Die empfohlenen Grenzwerte für die Auslegung werden wie folgt berechnet:
Q_{min} und Q_{max} Faktoren aus vorstehender Tabelle
$Q_{Optimum}$(Volumenstrom, bei dem die Pumpe ihren besten Wirkungsgrad erreicht) aus der Einzelkennlinie.

$Q_{min\ Auslegung} = Q_{min}$ Faktor x $Q_{Optimum}$
$Q_{max\ Auslegung} = Q_{max}$ Faktor x $Q_{Optimum}$

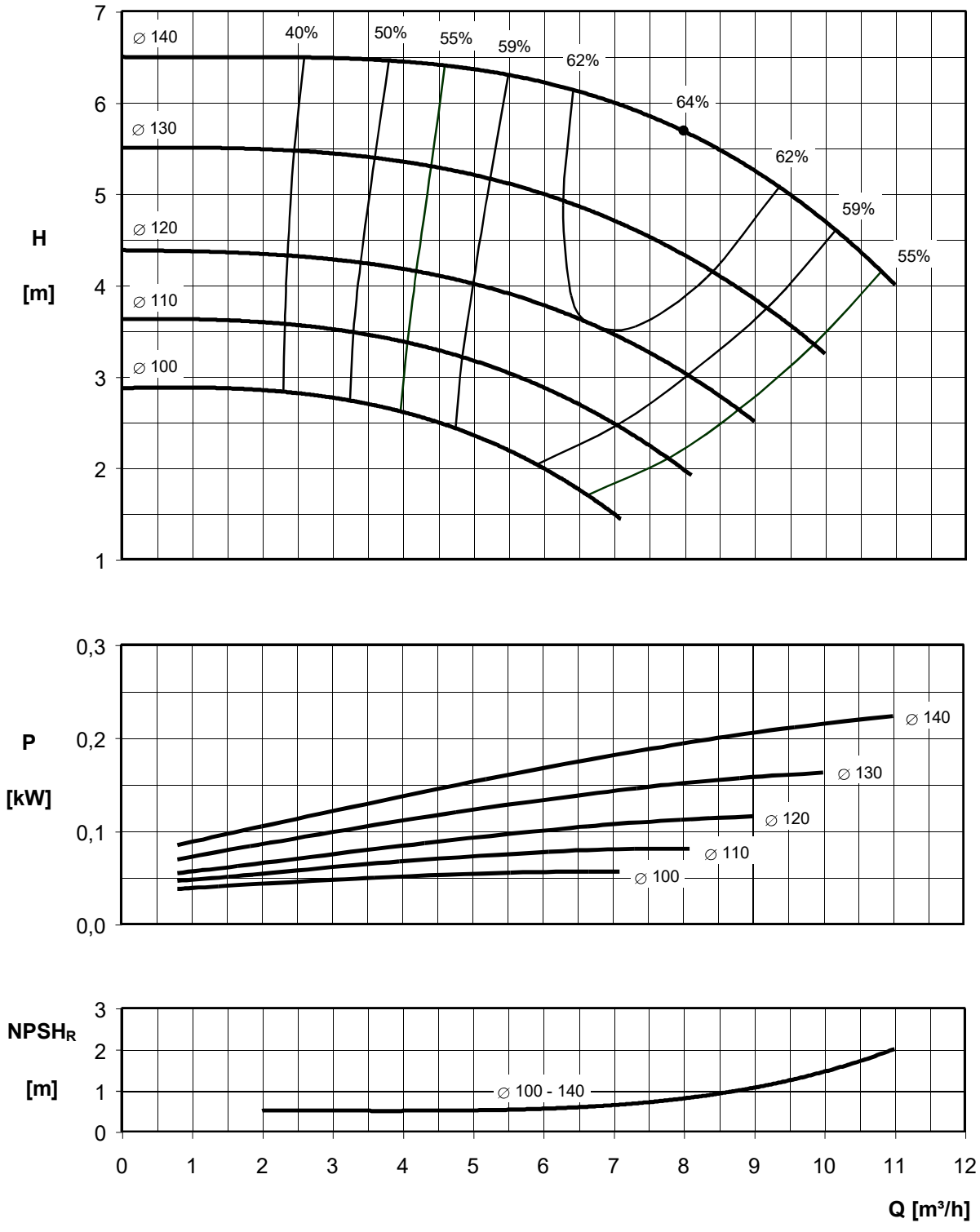
Beispiel:
Baugröße: 032125
Q_{min} = 0,3 x 8 = 2,4 m3/h
Q_{max} = 1,2 x 8 = 9,6 m3/h

To calculate Qmin and Qmax, the following process will be follow:

Q_{min} or Q_{max} = Factor from table x $Q_{optimun}$ from curve

Example:
Pump size: 032125
Q_{min} = 0,3 x 8 = 2,4 m3/h
Q_{max} = 1,2 x 8 = 9,6 m3/h

SIHI *SuperNova* 032125			Nenndrehzahl / *nominal speed* 1450 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

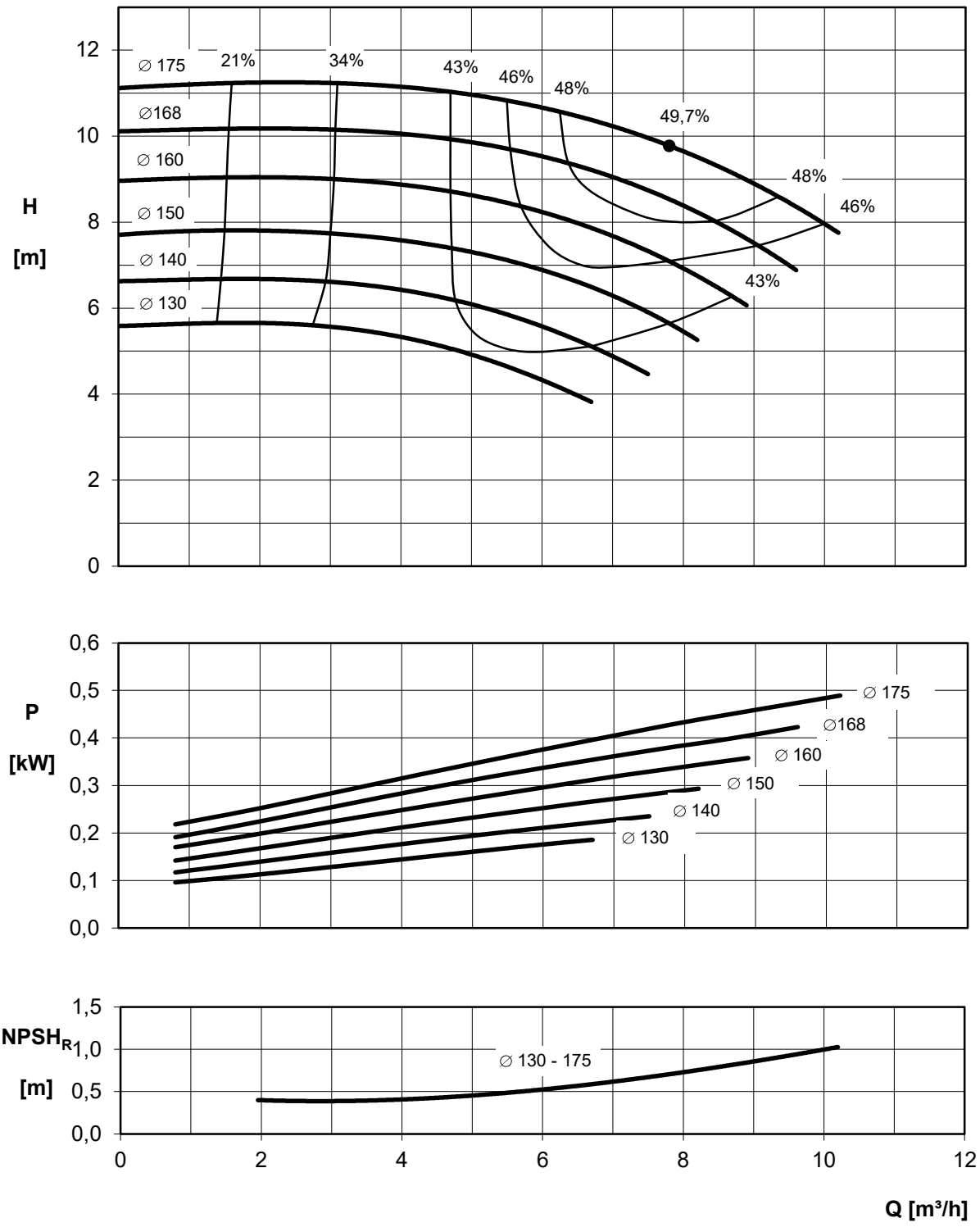


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032160A					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

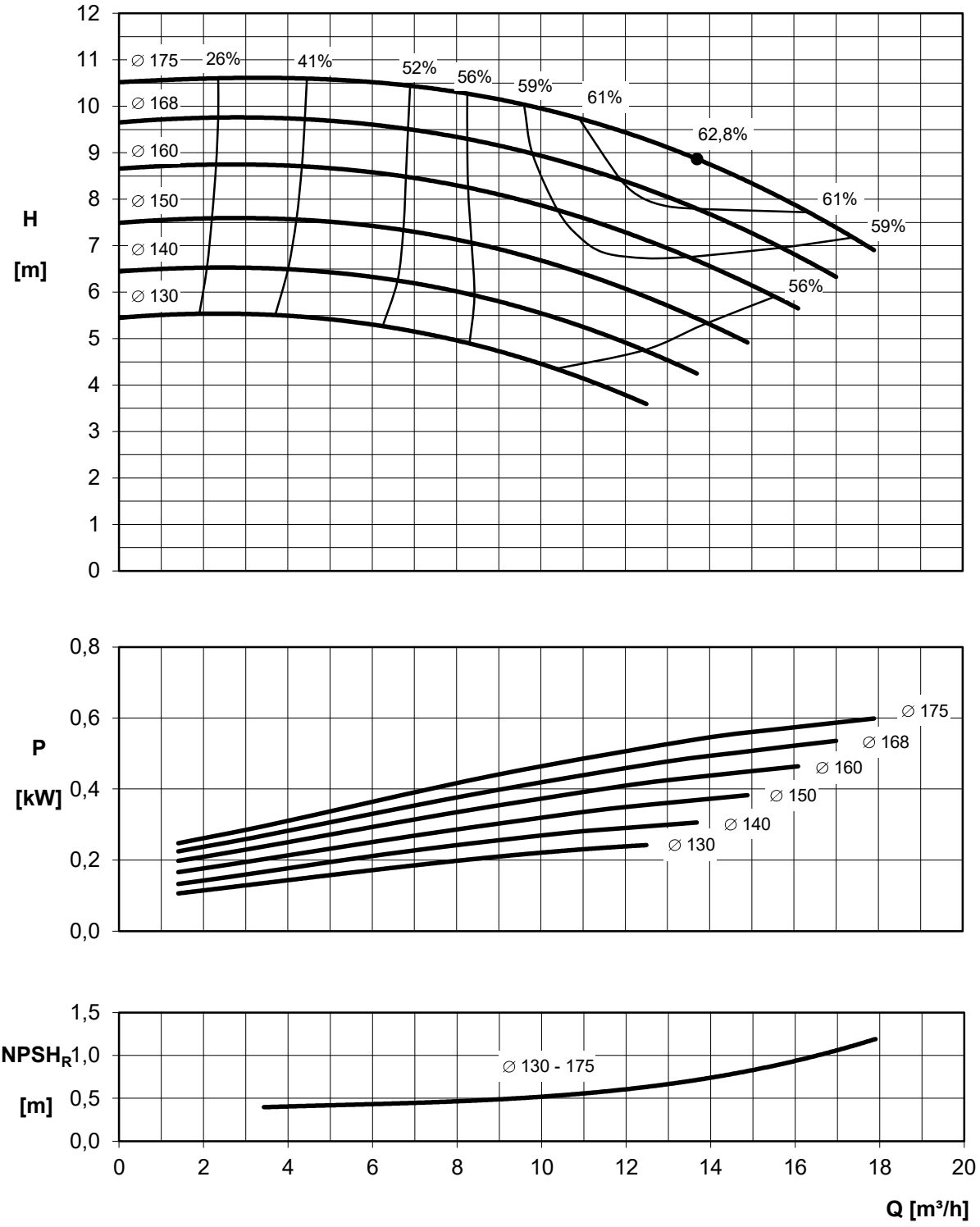


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032160B					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

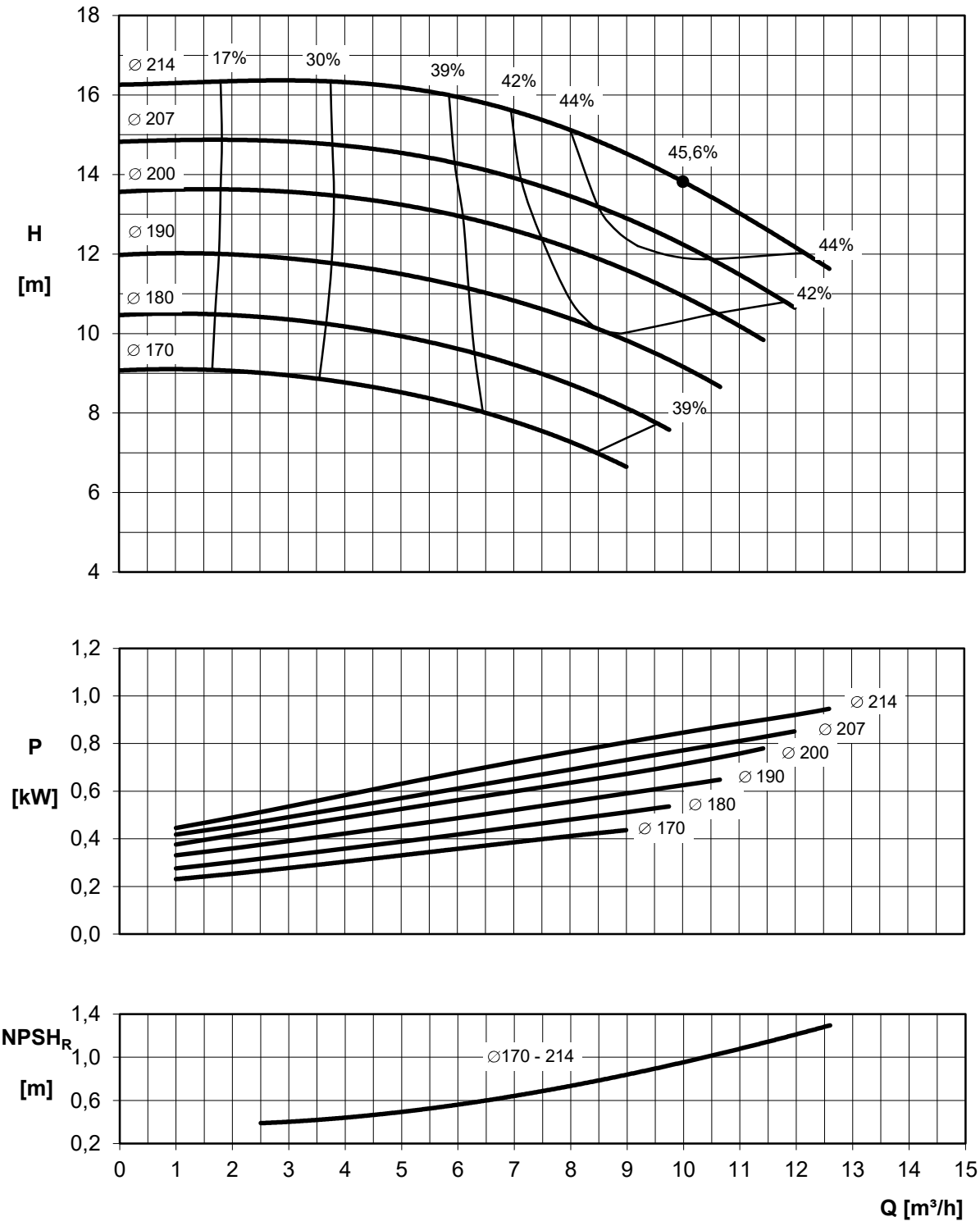


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032200A					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

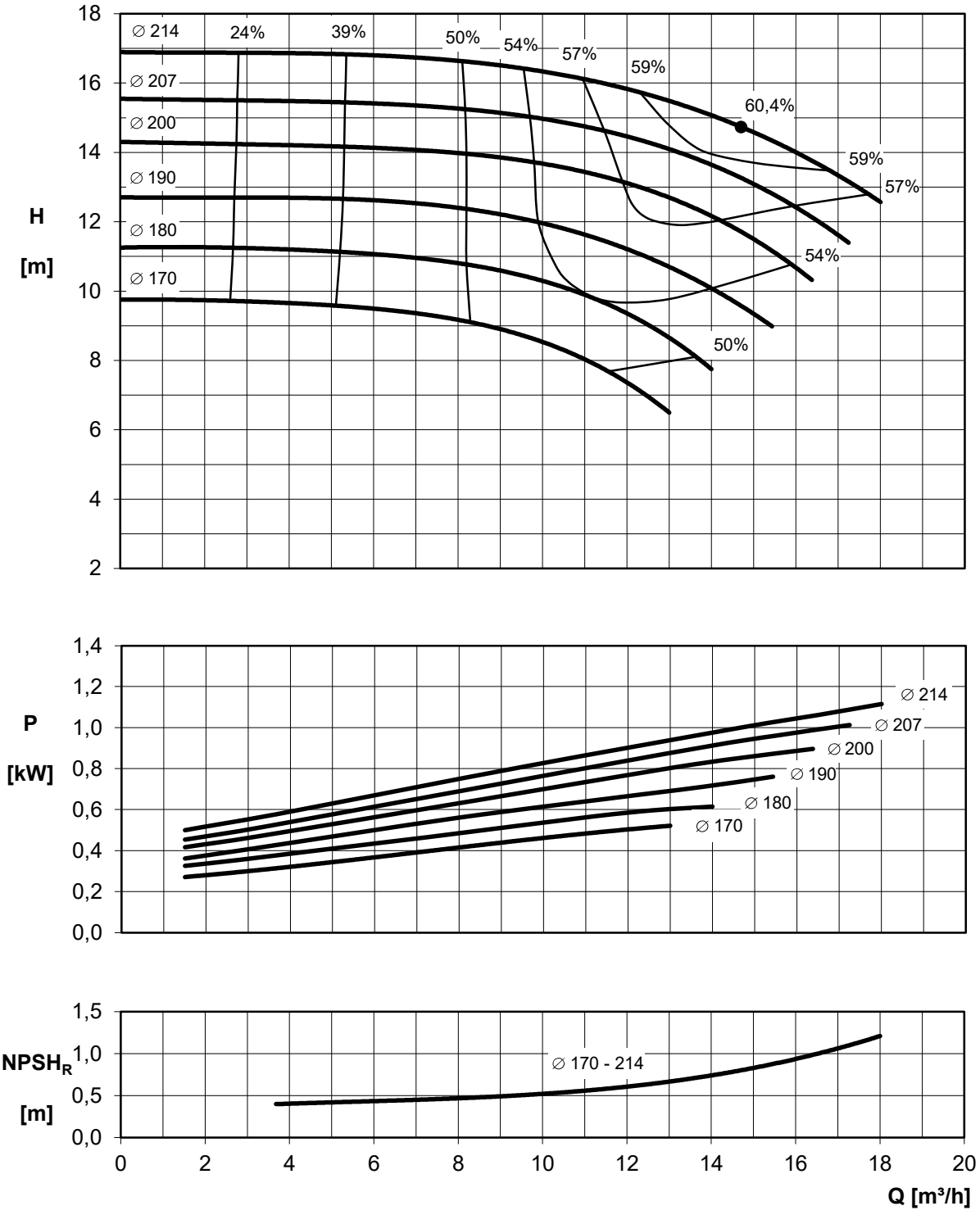


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032200B					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

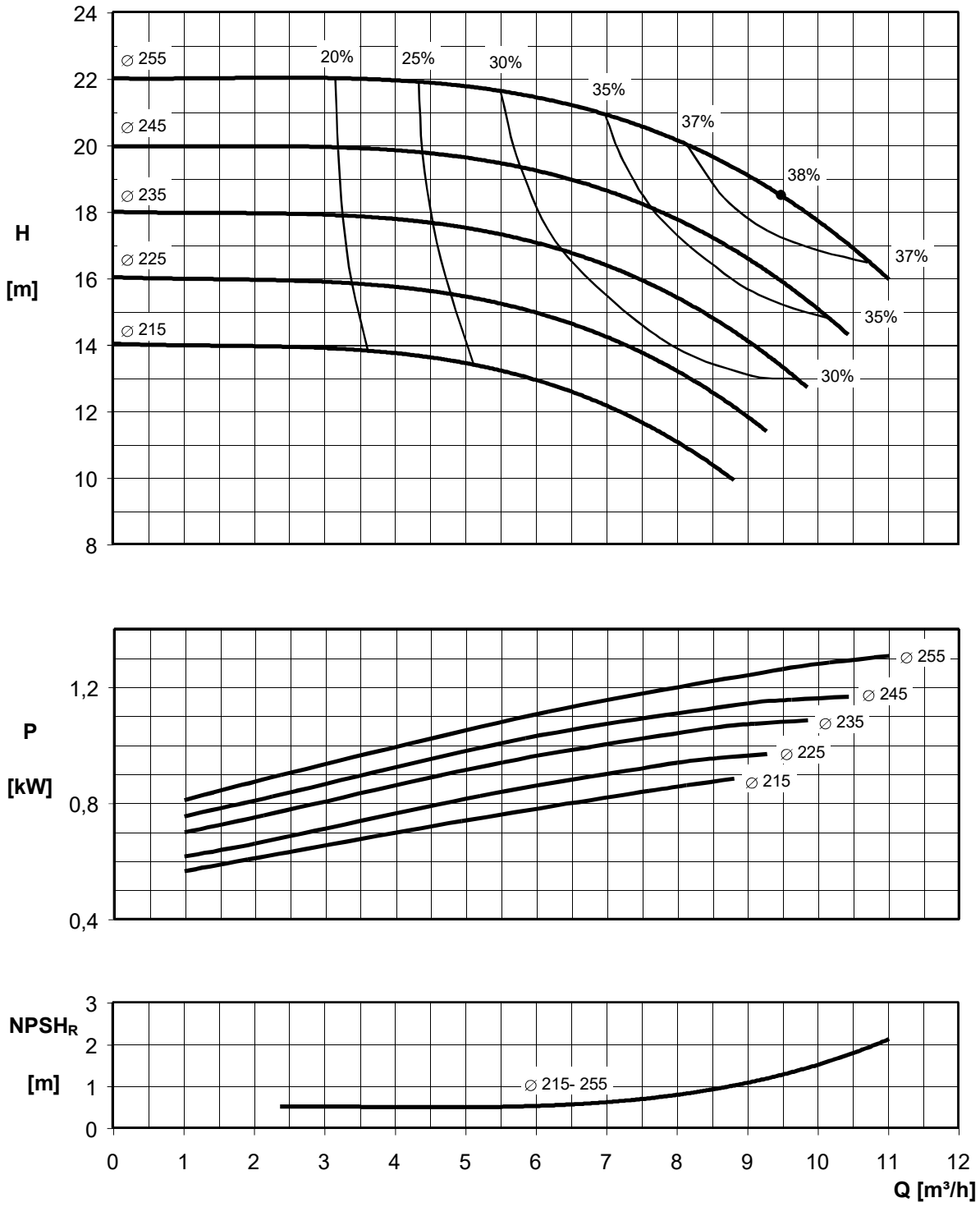


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032250				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

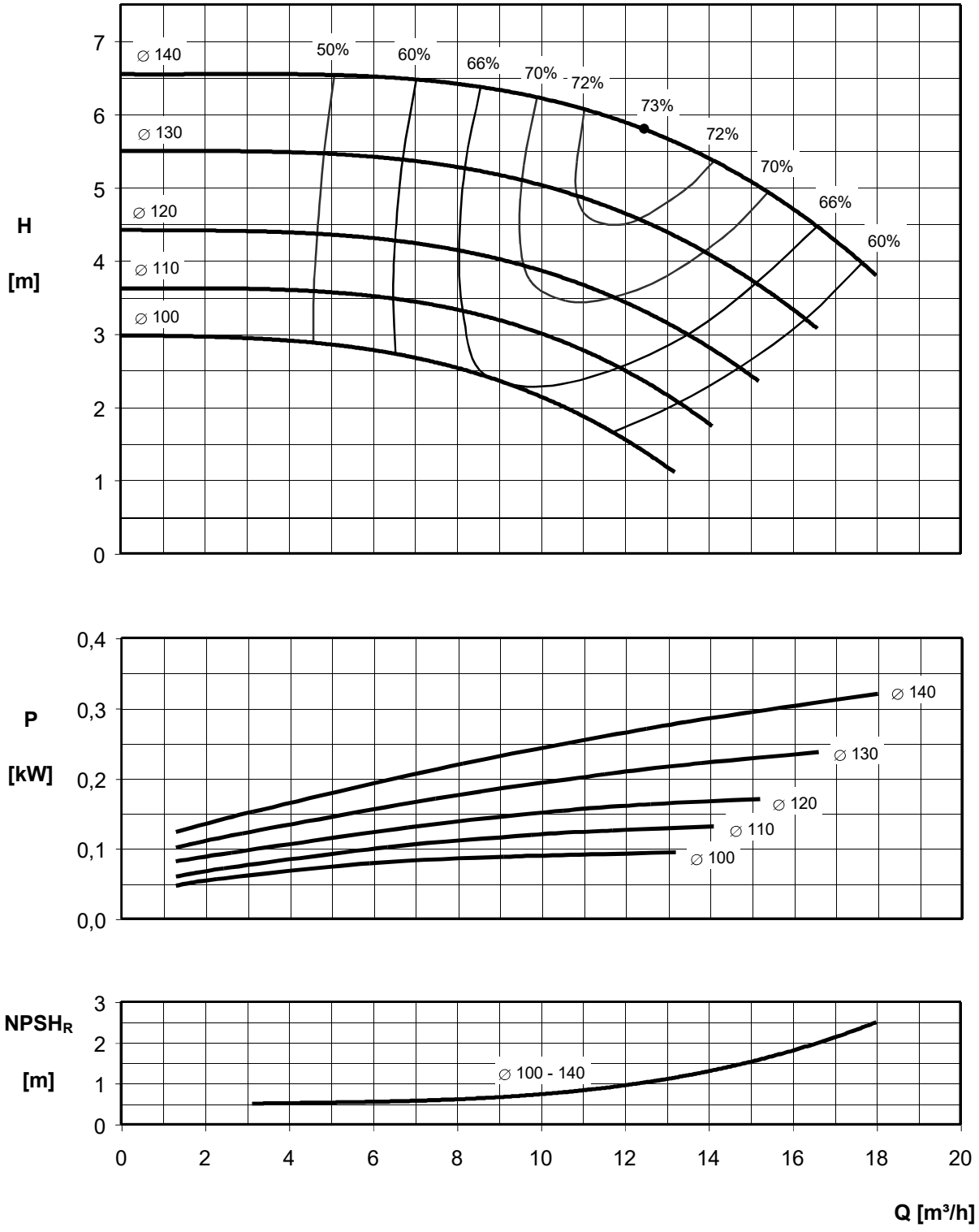


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 040125			Nenndrehzahl / *nominal speed* 1450 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

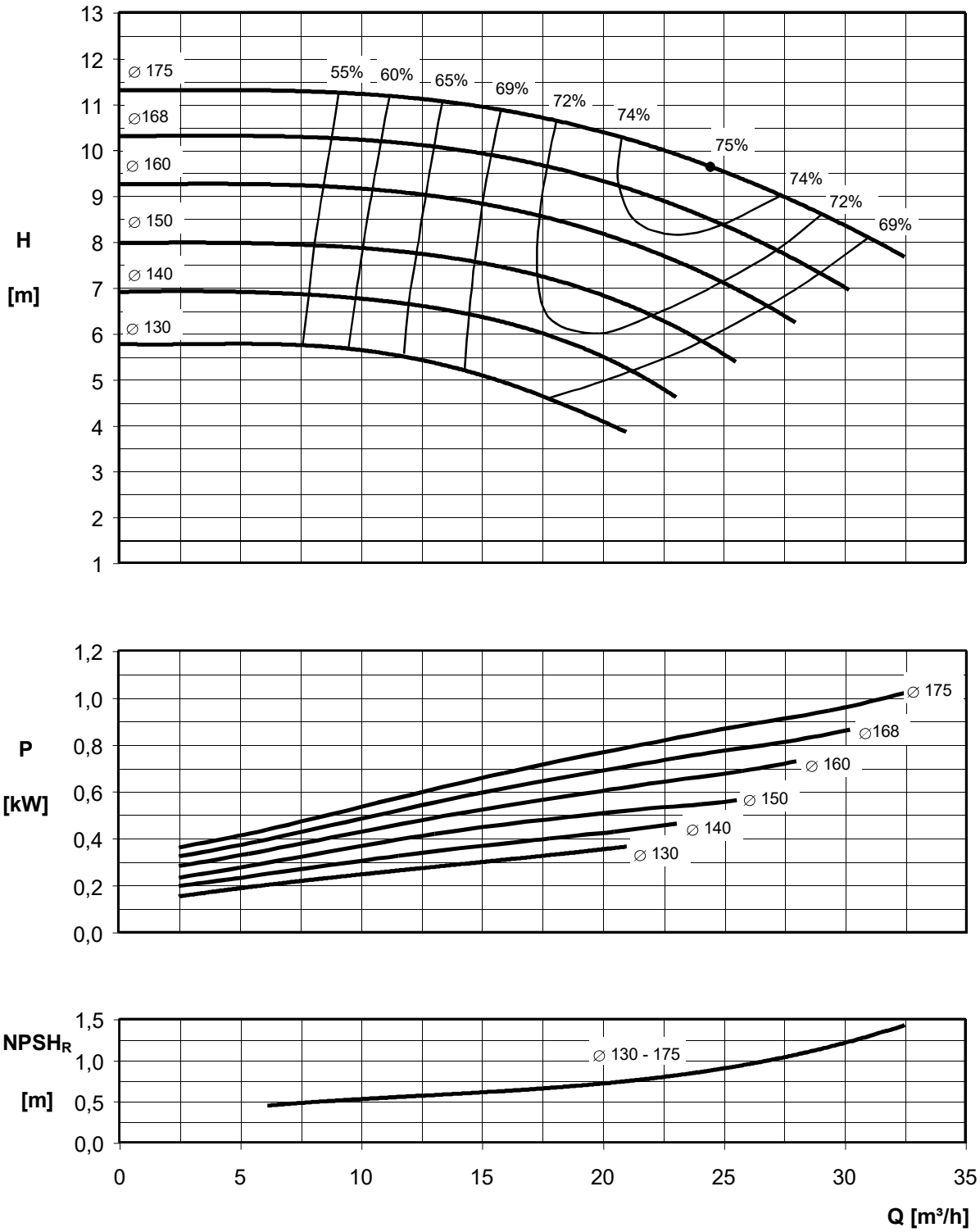


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 040160					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

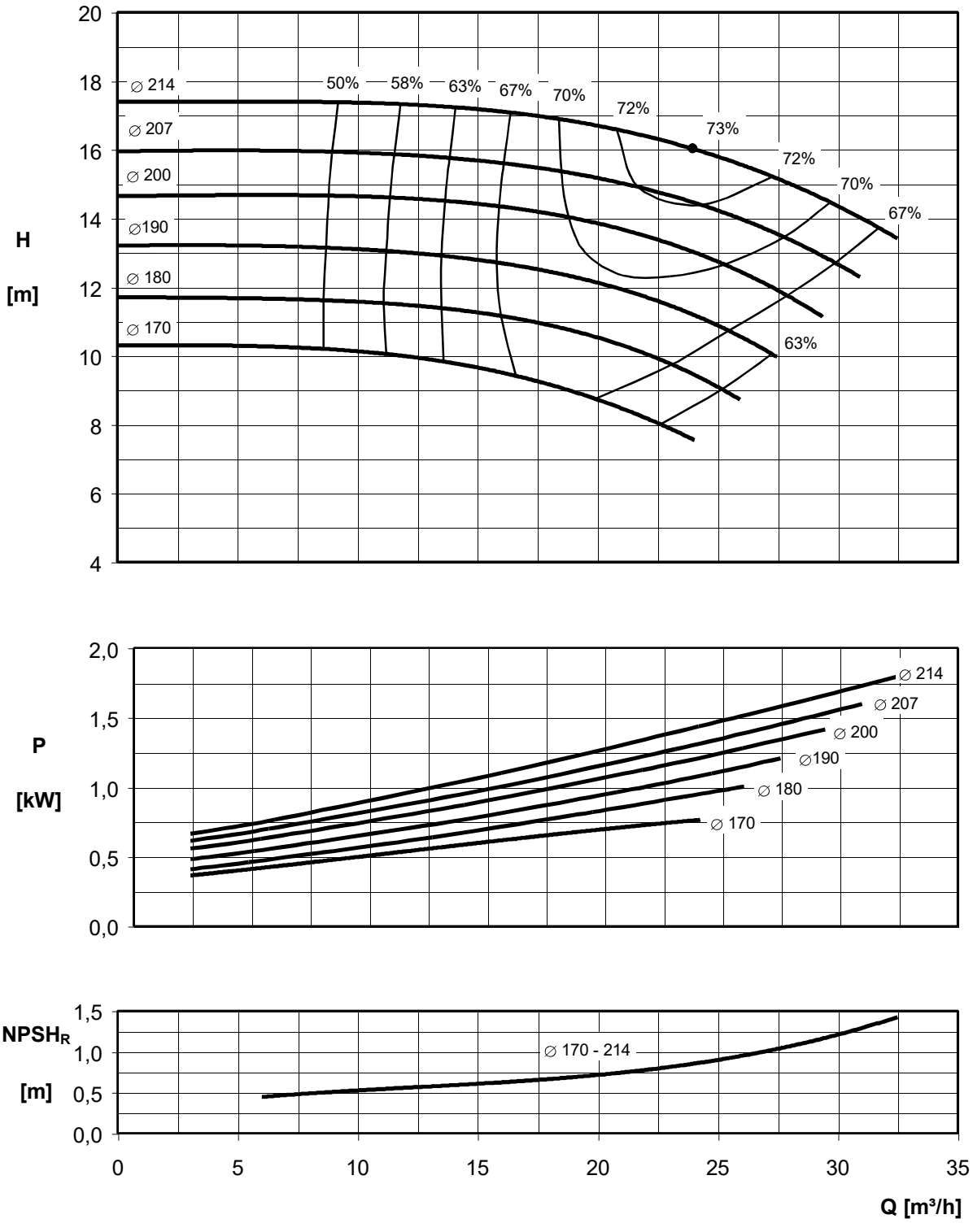


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 040200					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

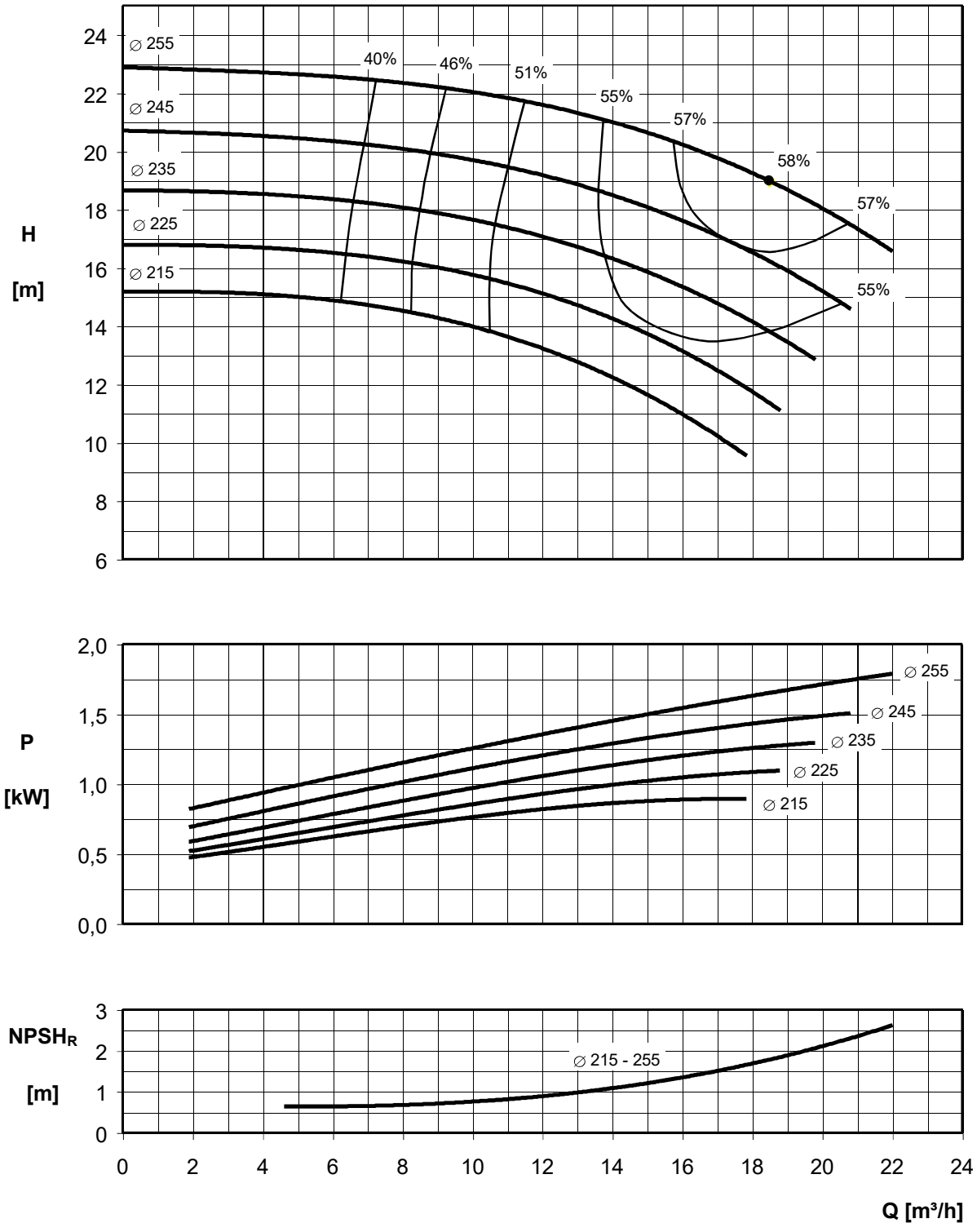


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 040250				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

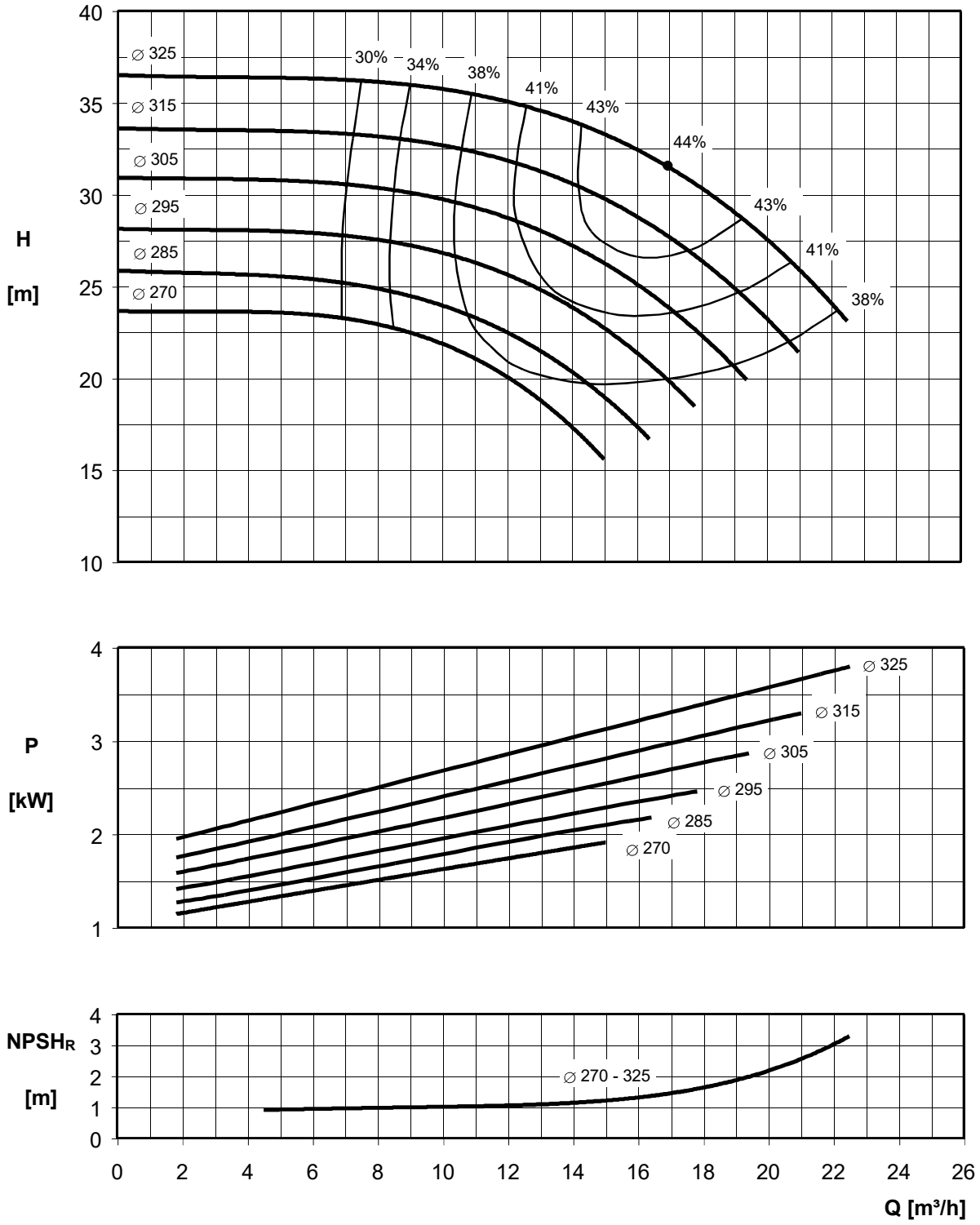


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 040315				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

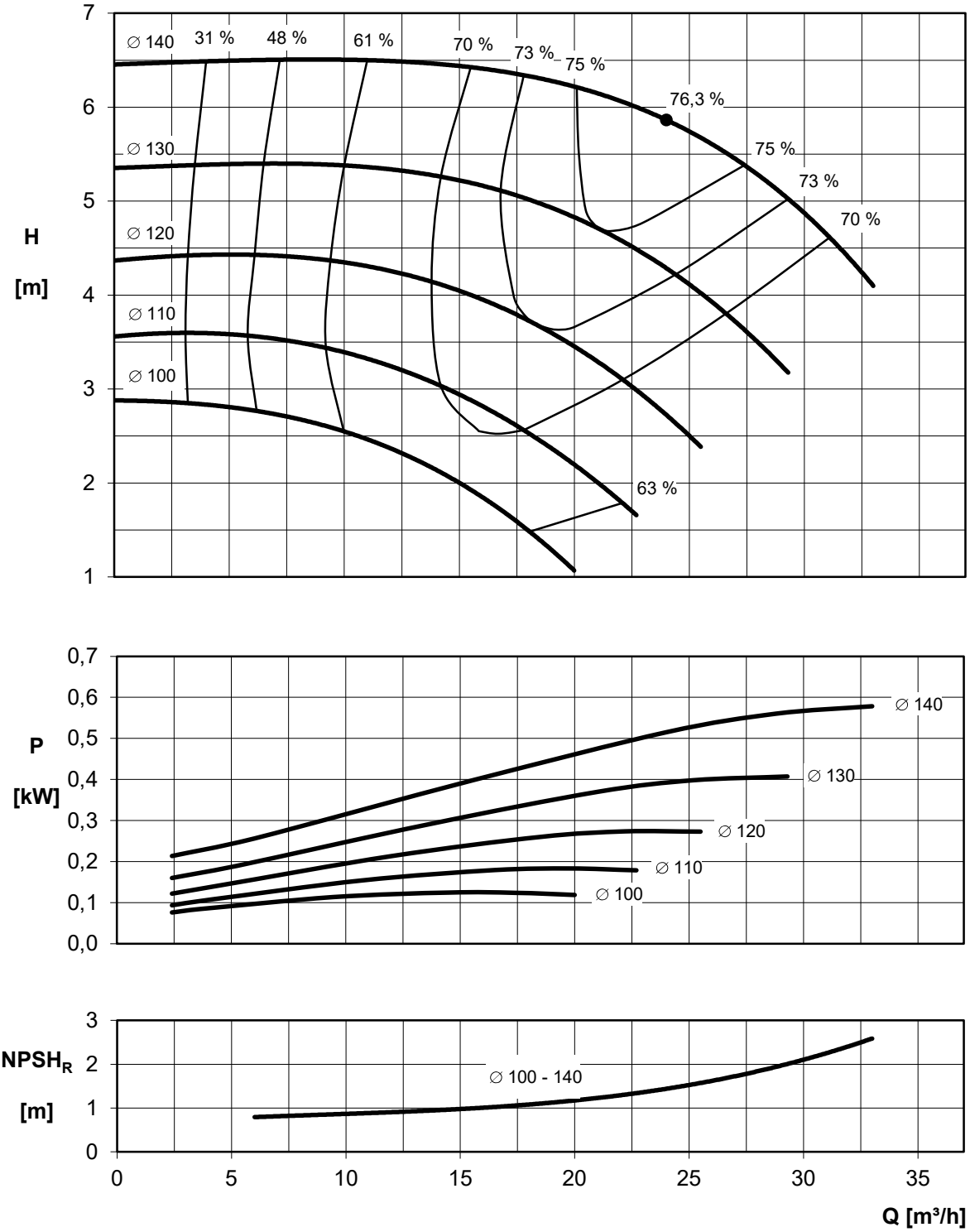


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 050125			Nenndrehzahl / *nominal speed* 1450 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

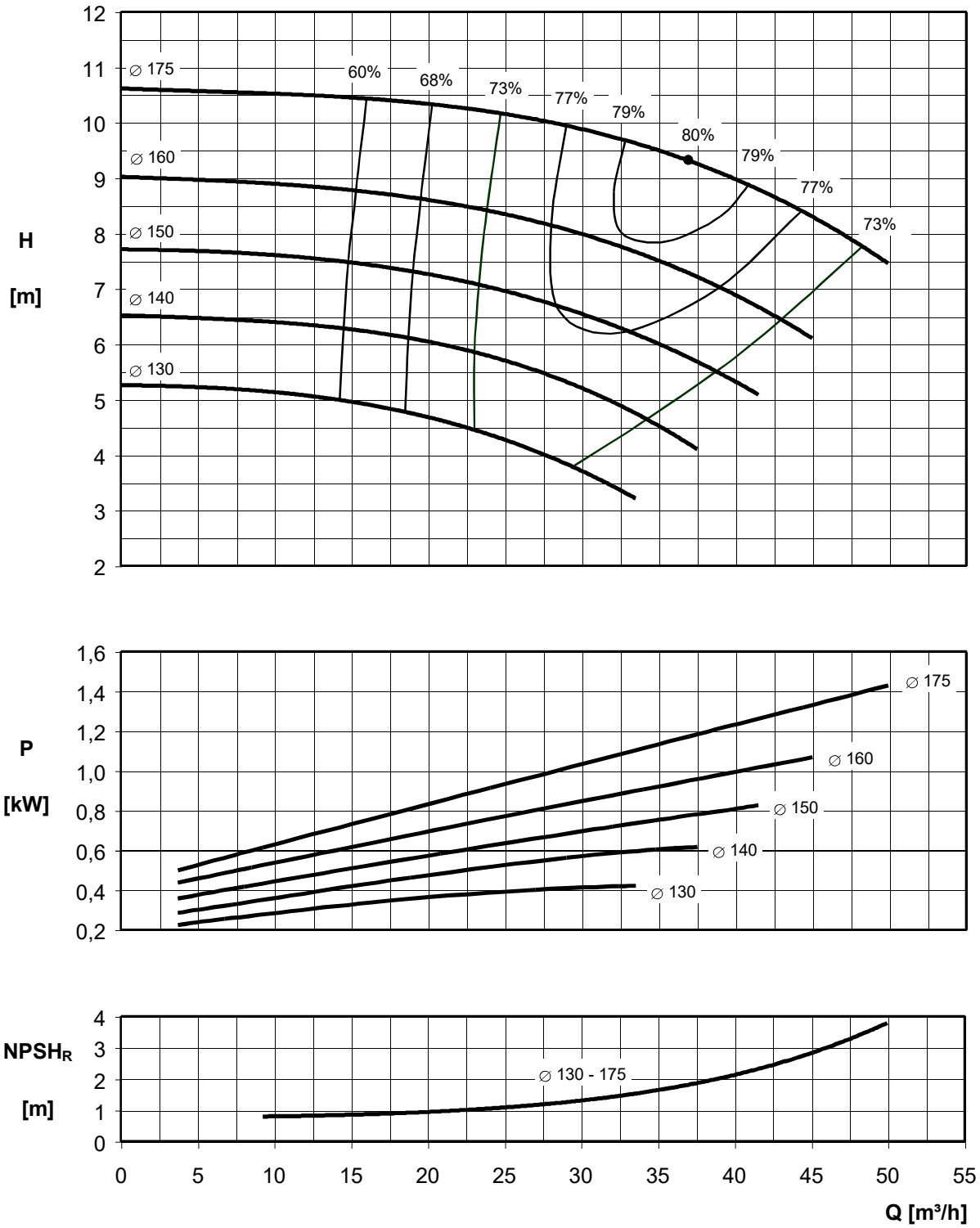


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 050160					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

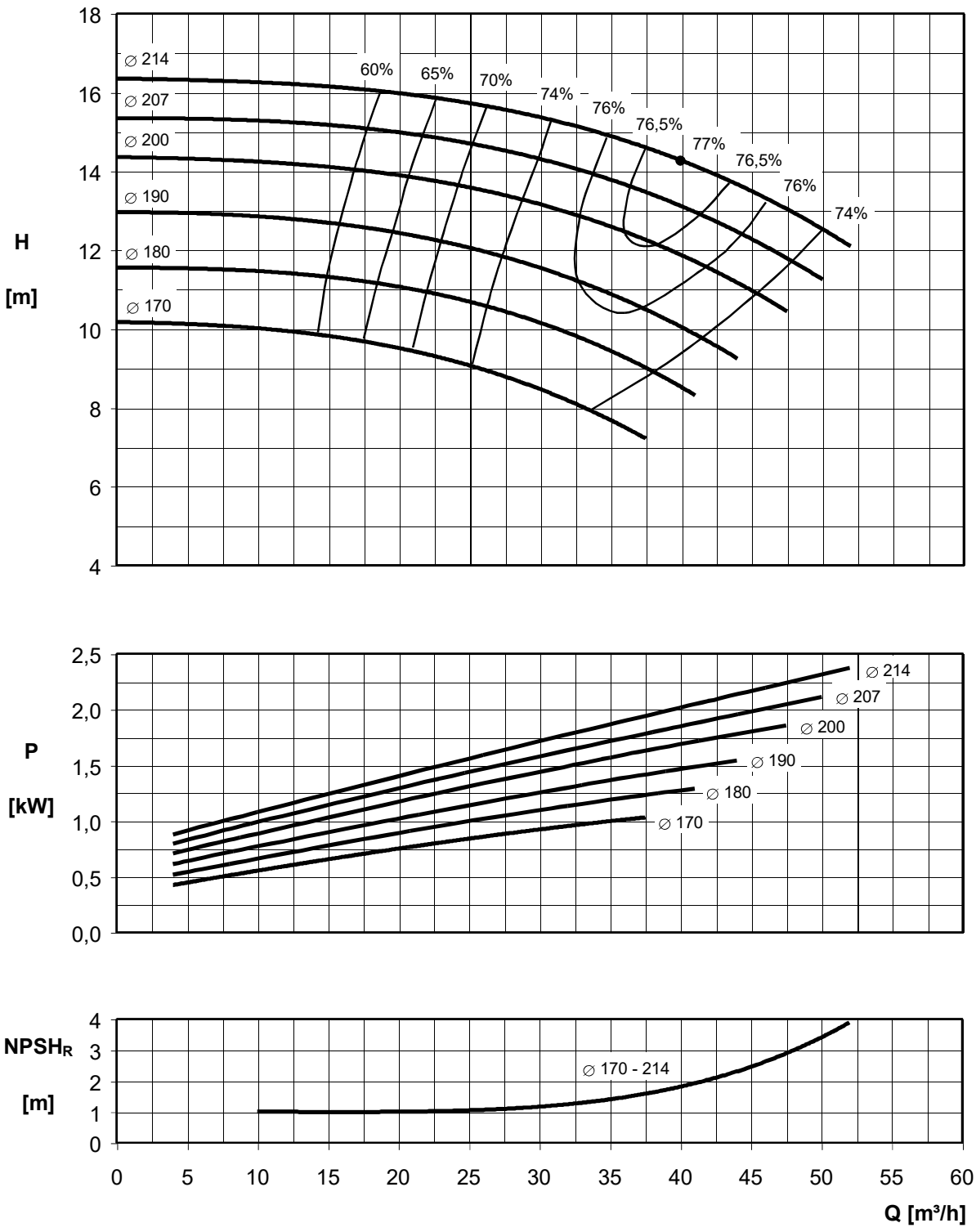


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 050200					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

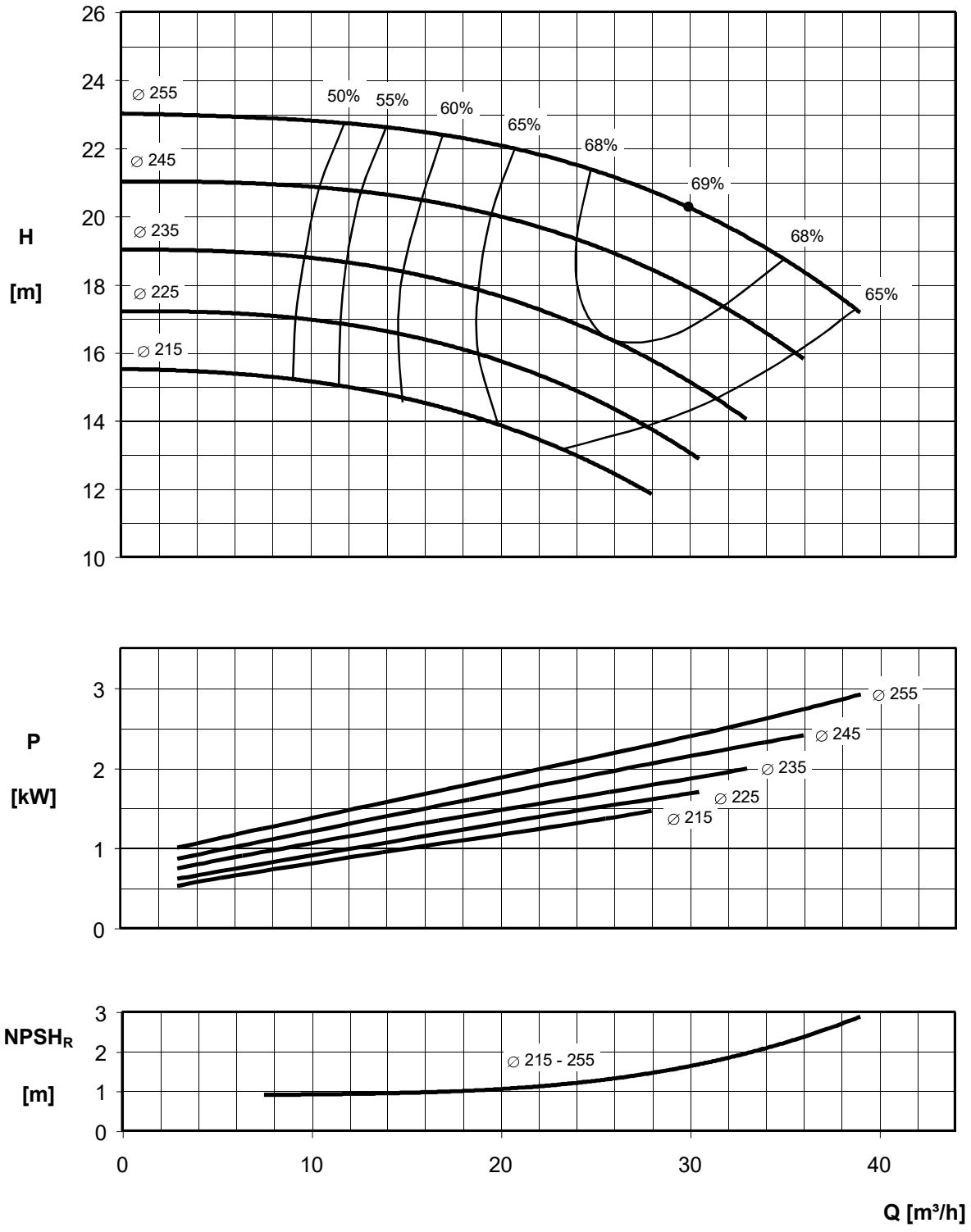


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 050250				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

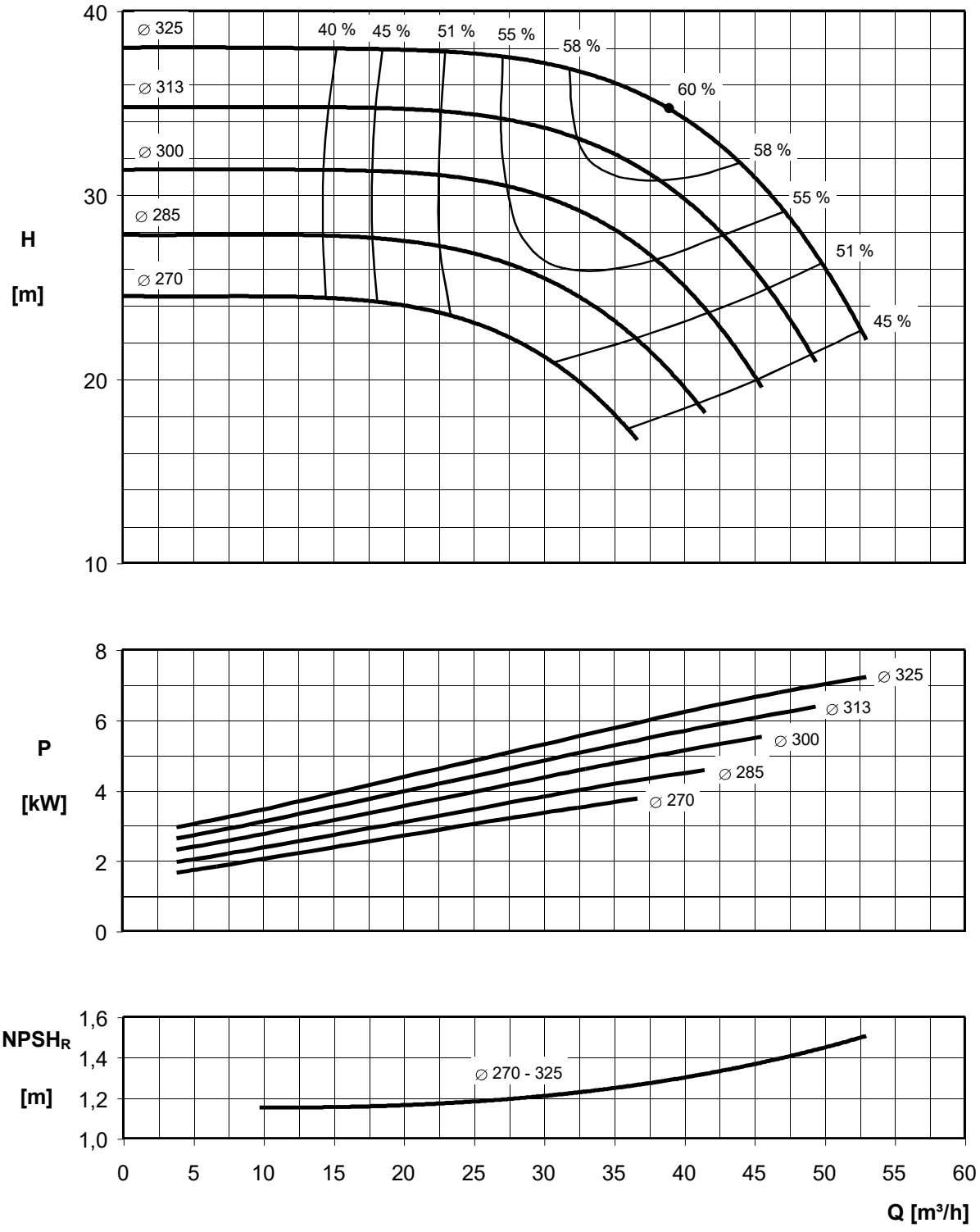


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 050315				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

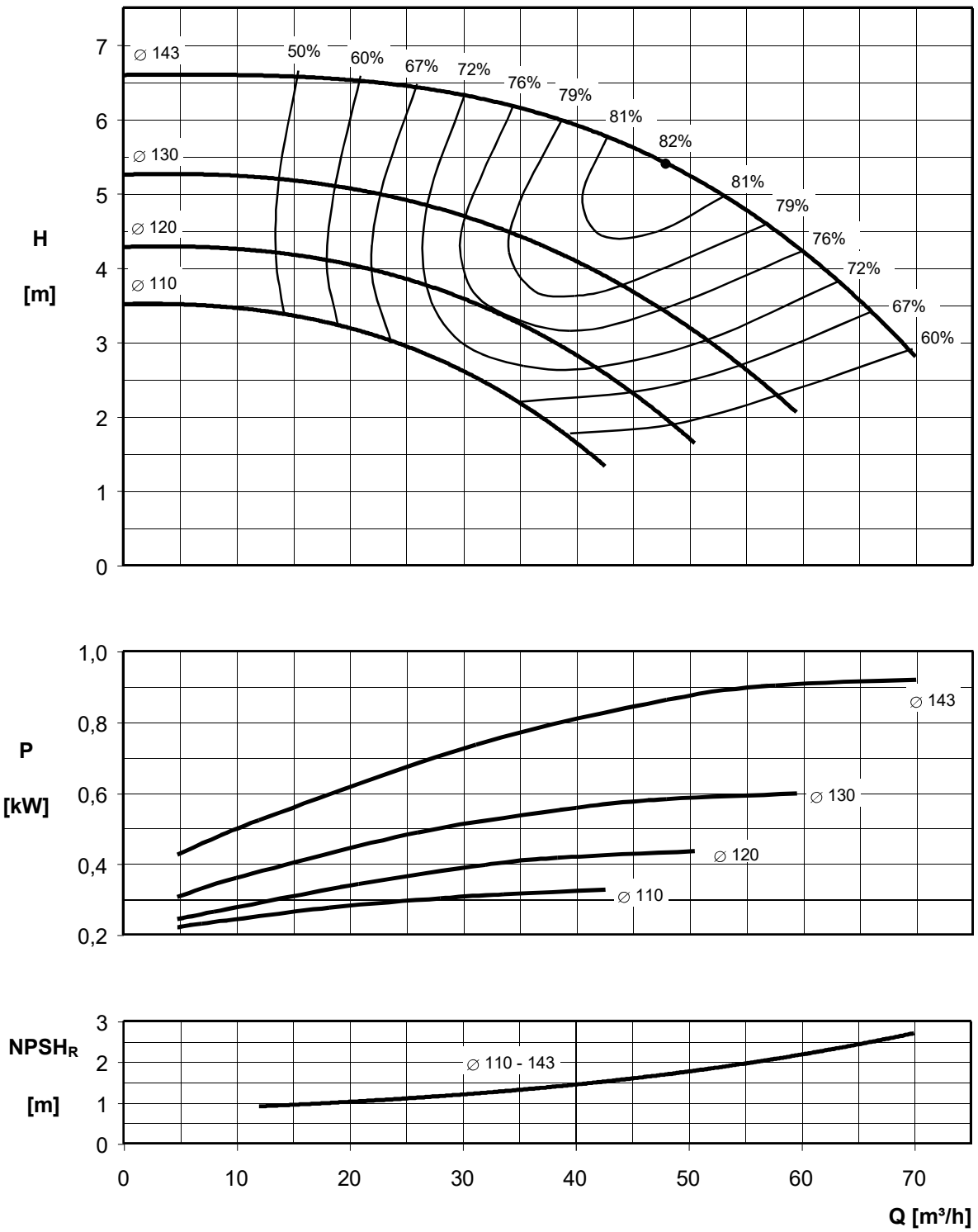


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 065125			Nenndrehzahl / *nominal speed* 1450 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

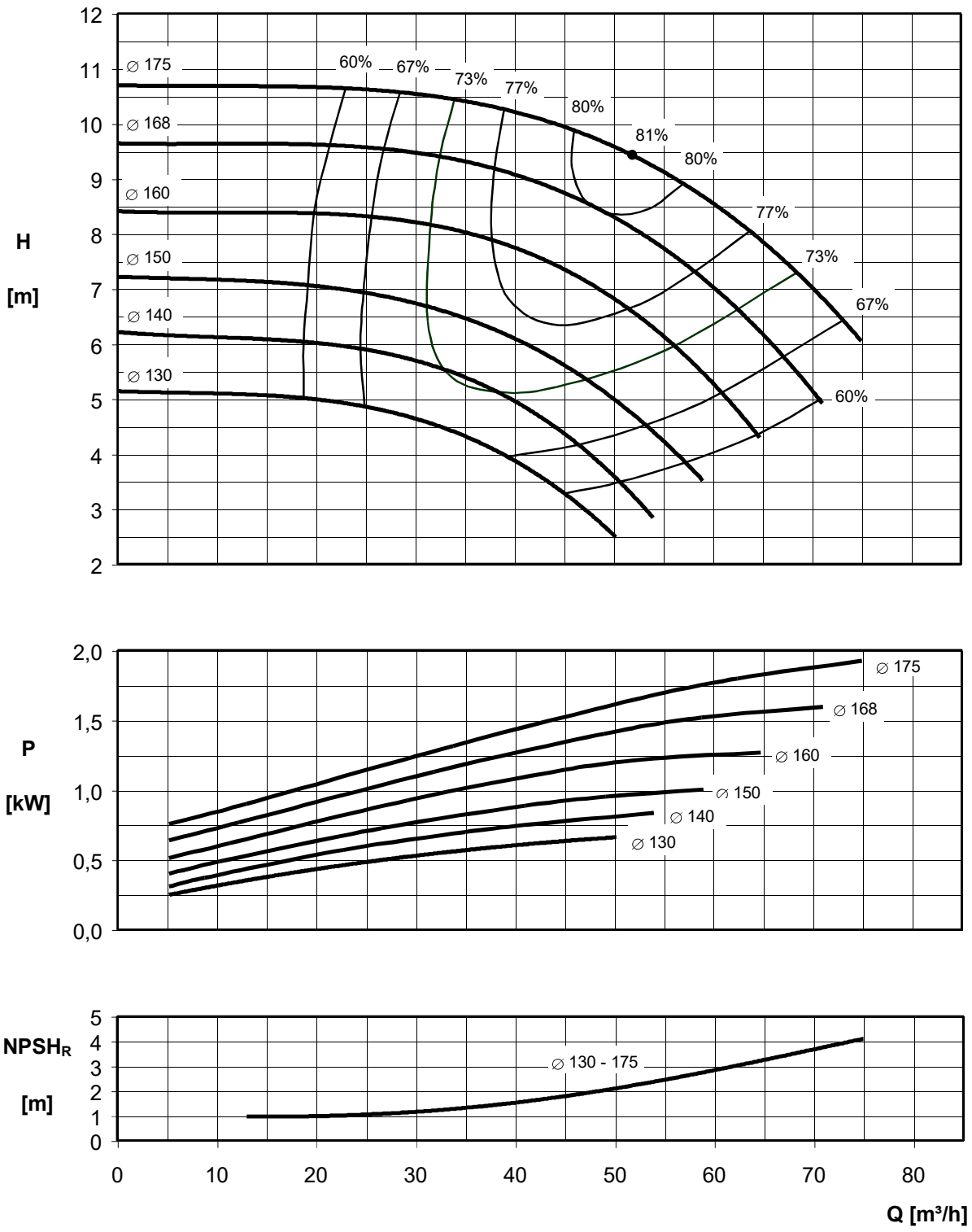


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 065160					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

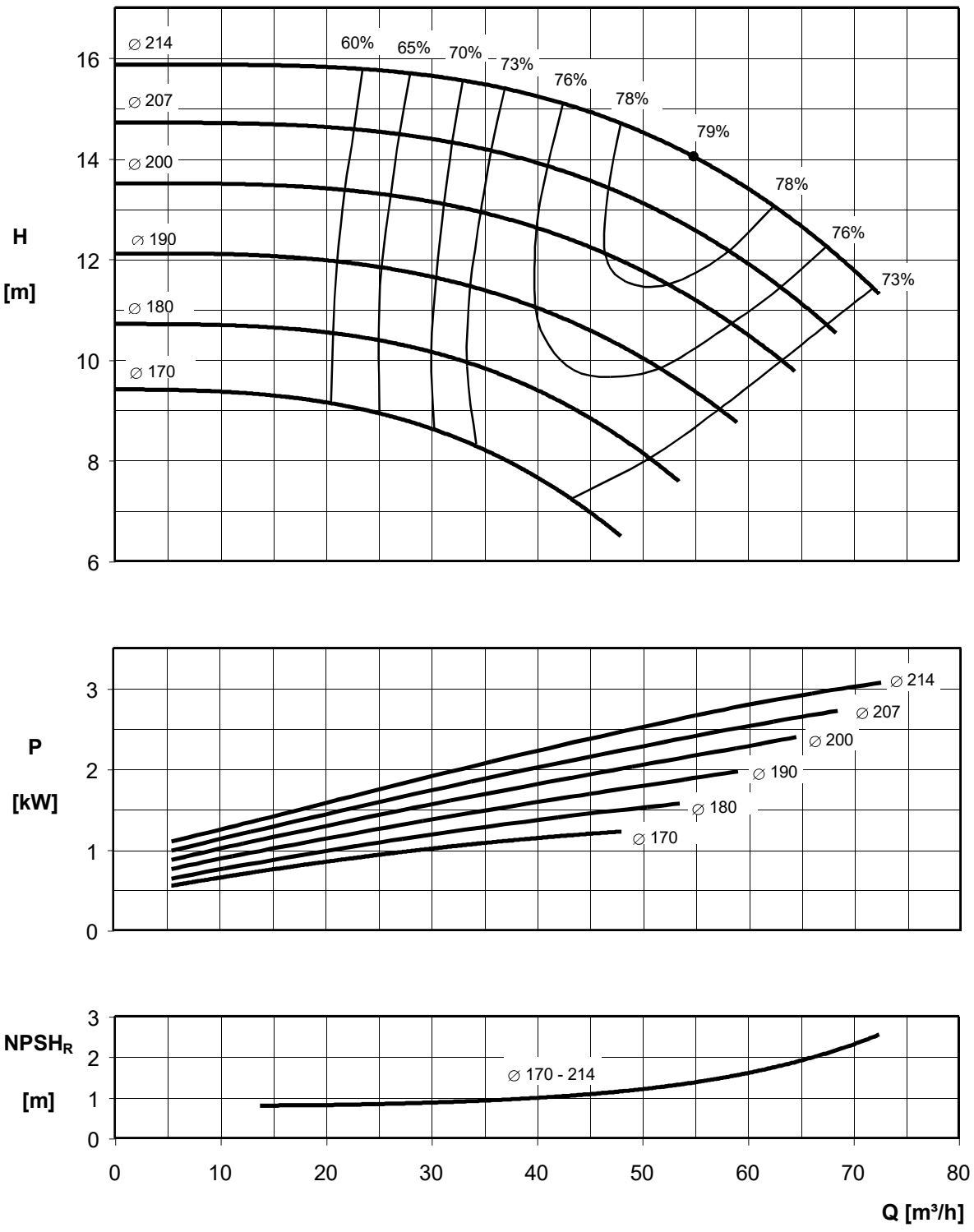


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 065200					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

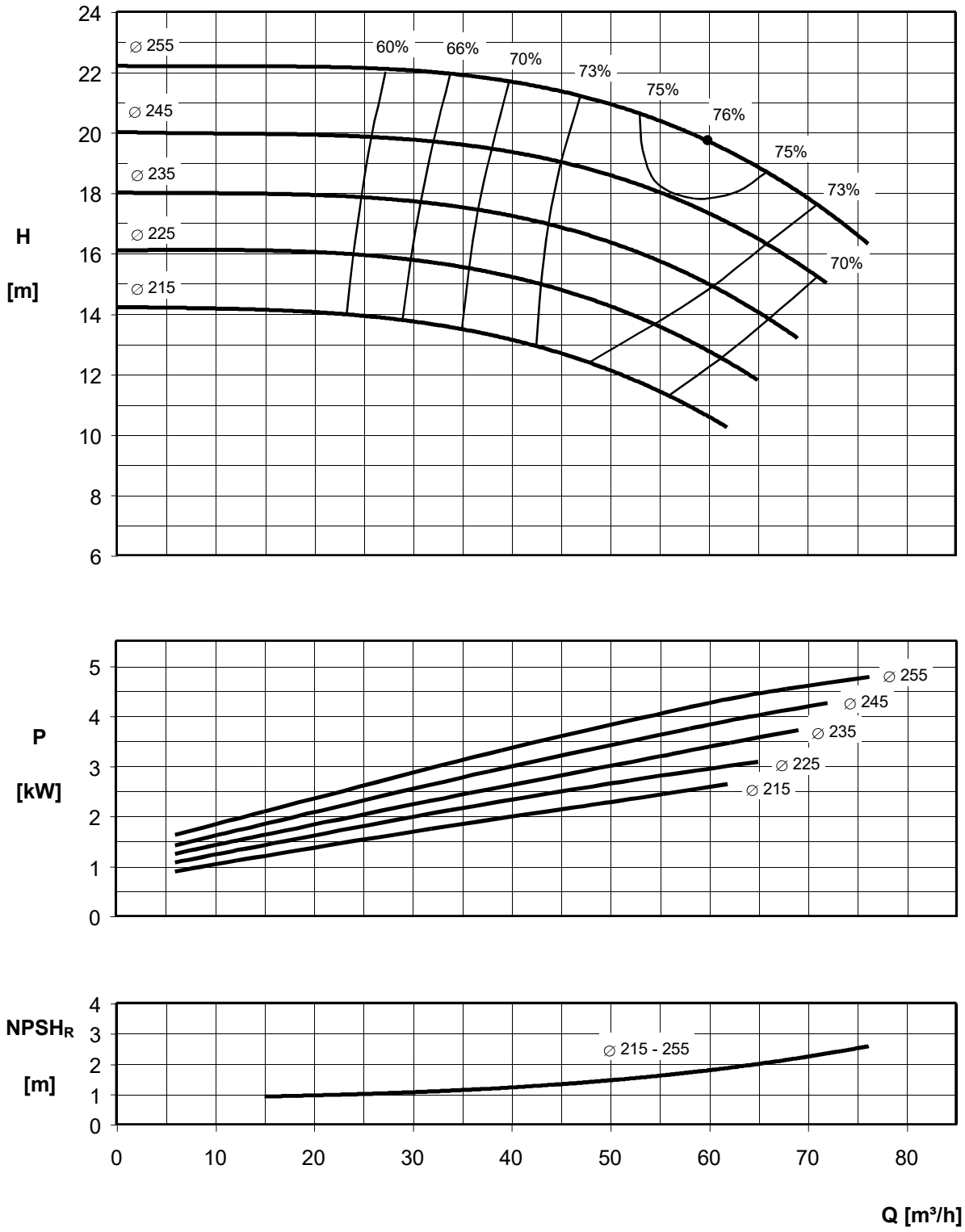


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 065250				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

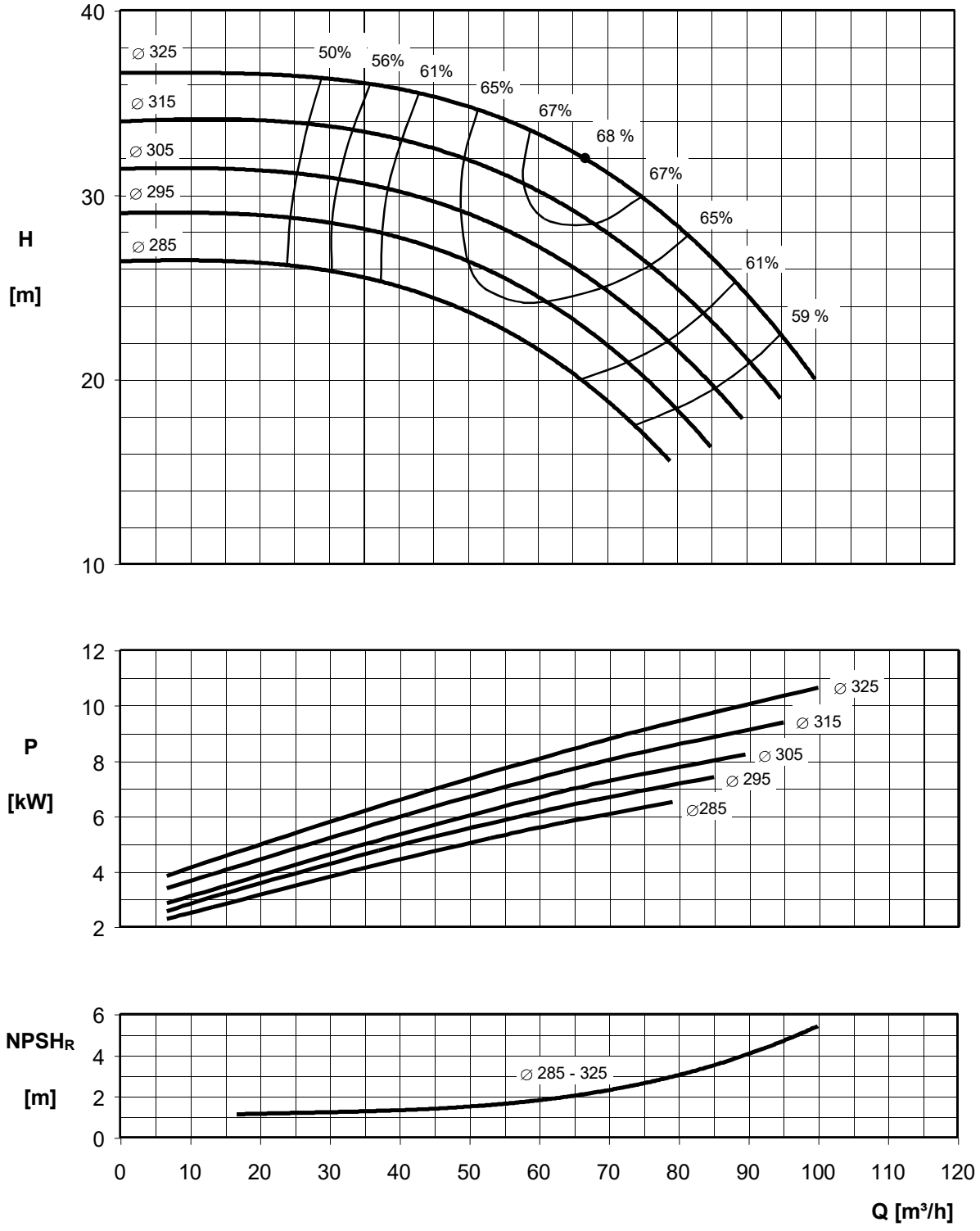


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 065315				Nenndrehzahl / *nominal speed* 1450 min^{-1}							FLOWSERVE SIHI Pumps
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**								

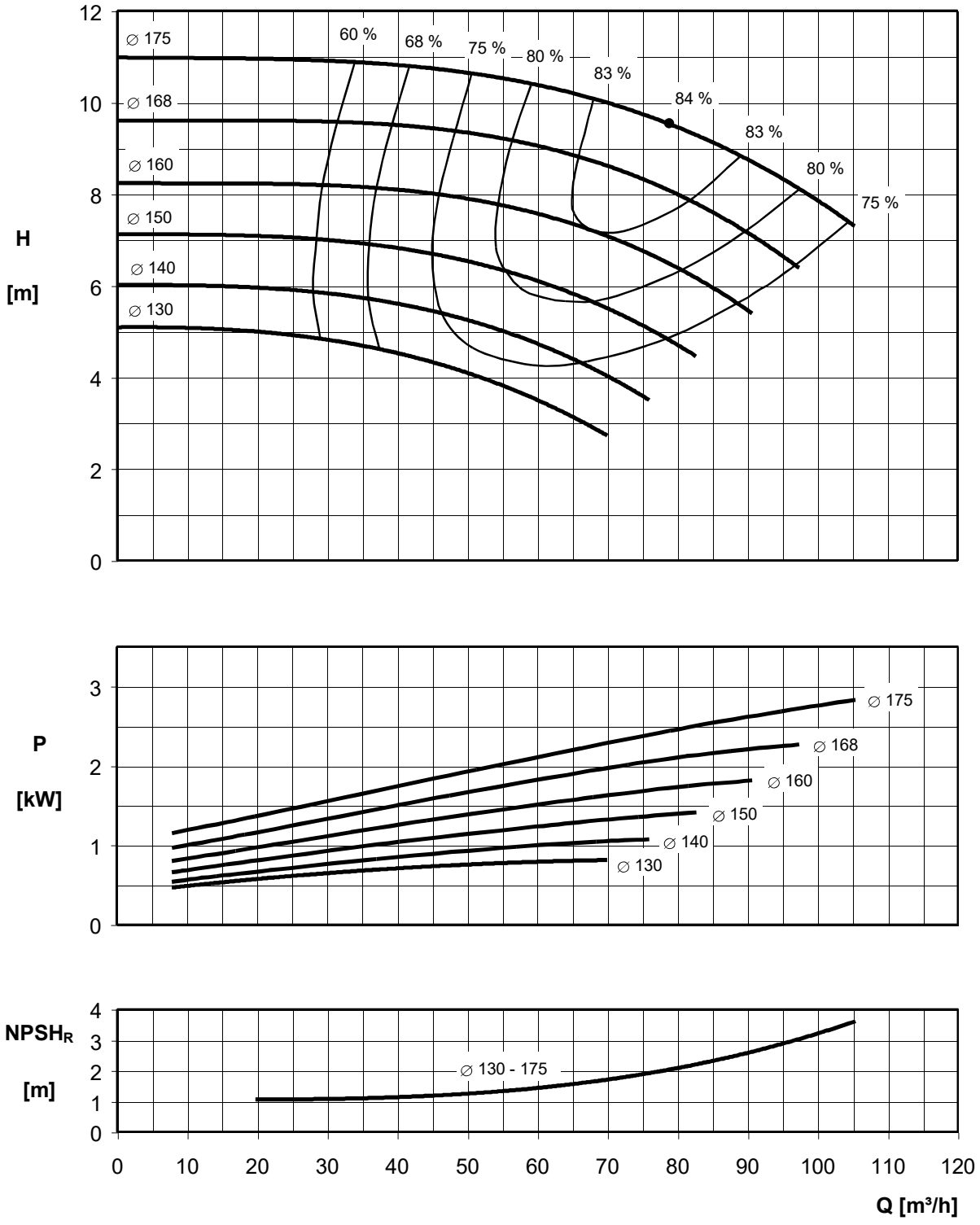


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 080160					Nenndrehzahl / *nominal speed* 1450 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

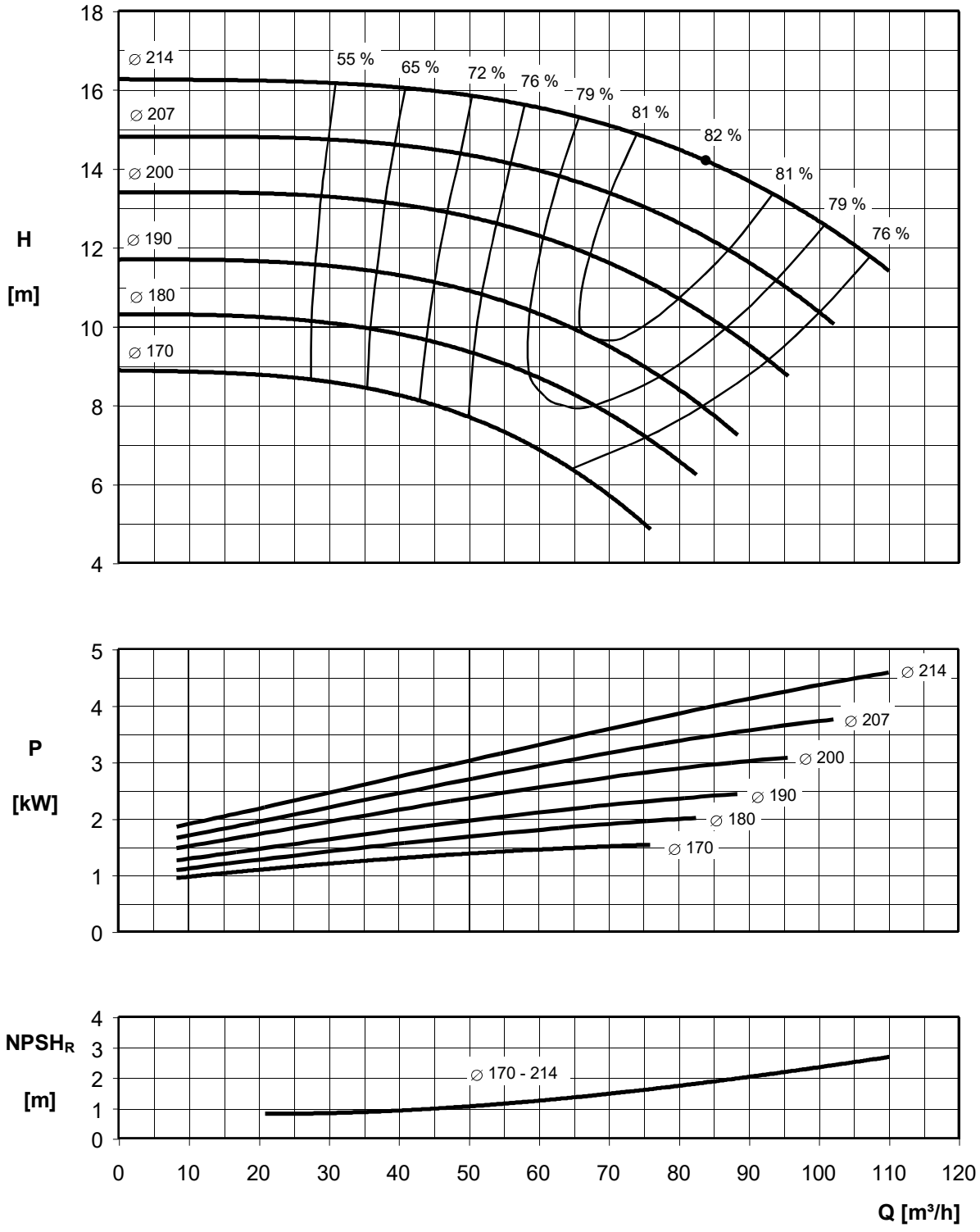


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 080200				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

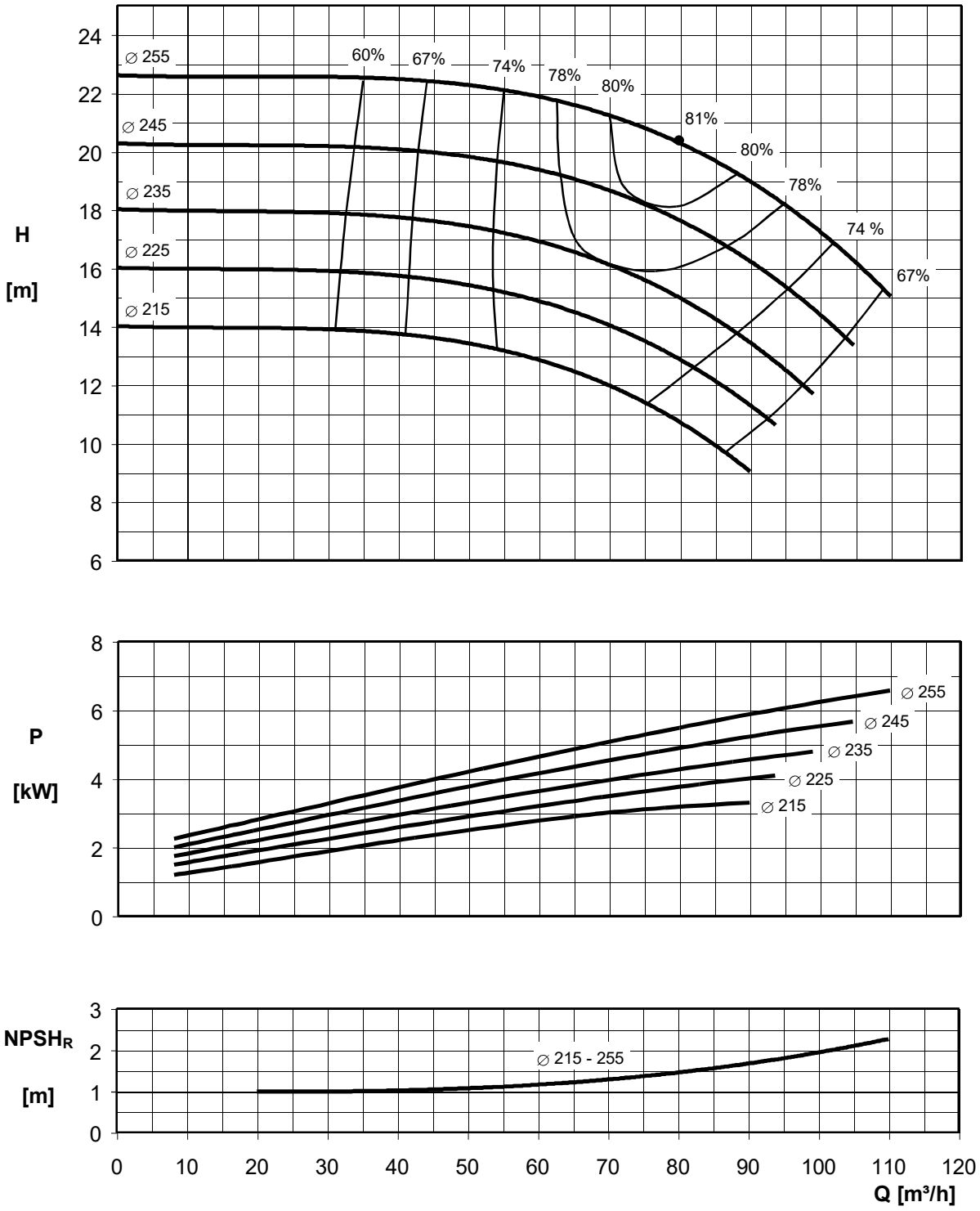


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 080250				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

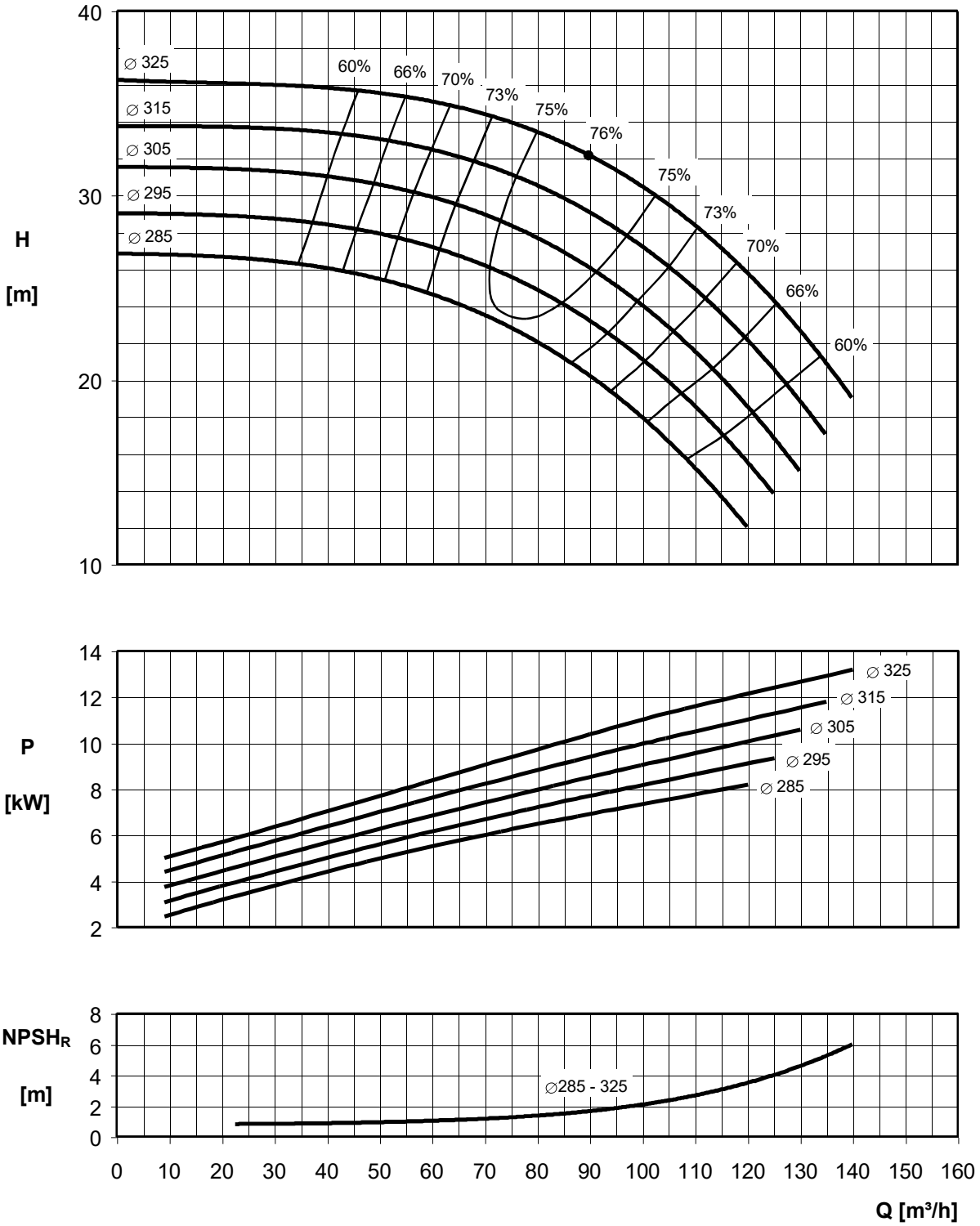


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 080315				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

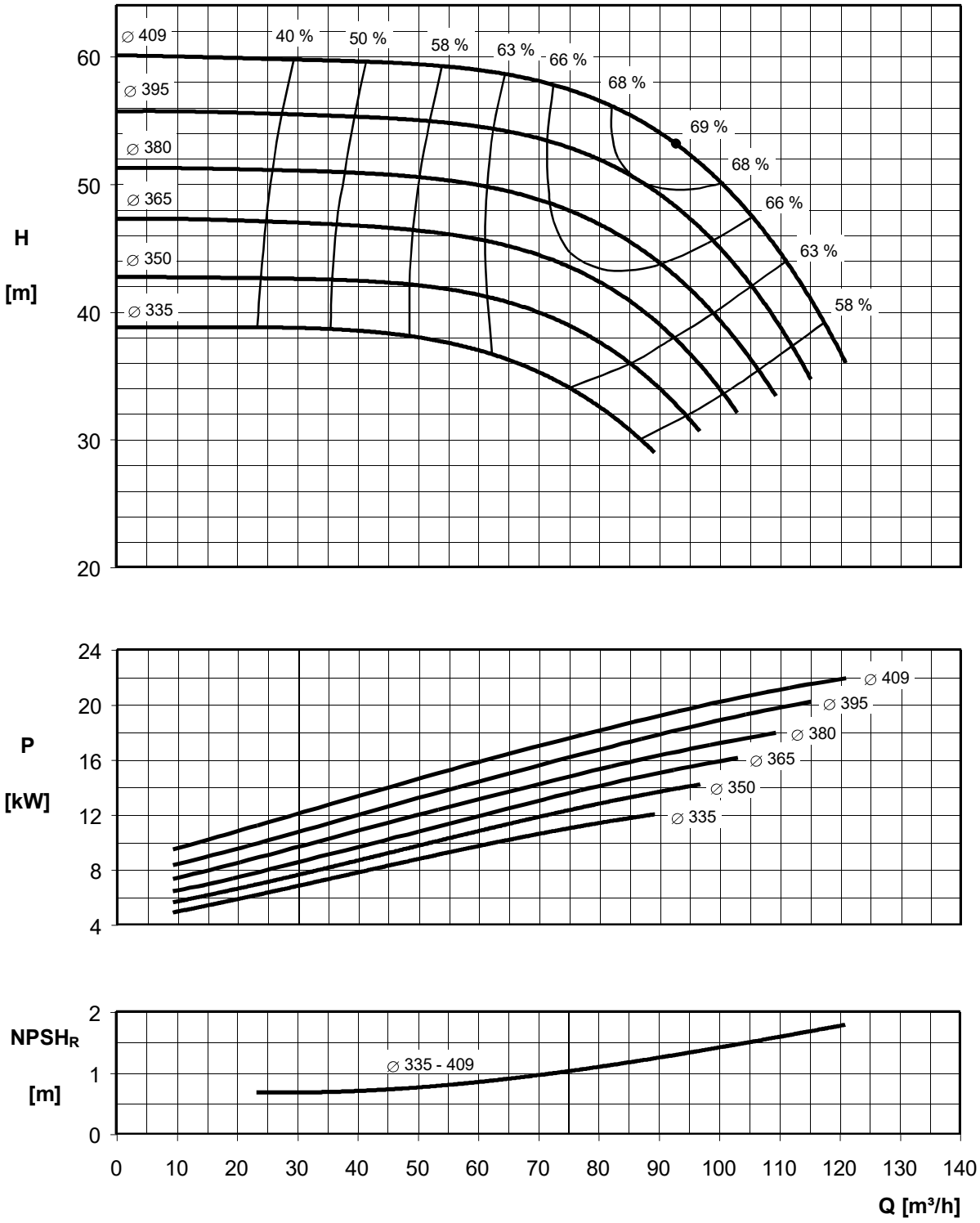


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 080400				Nenndrehzahl / *nominal speed* 1450 min^{-1}							FLOWSERVE SIHI Pumps
Baureihe / *series*	**ZLND**										

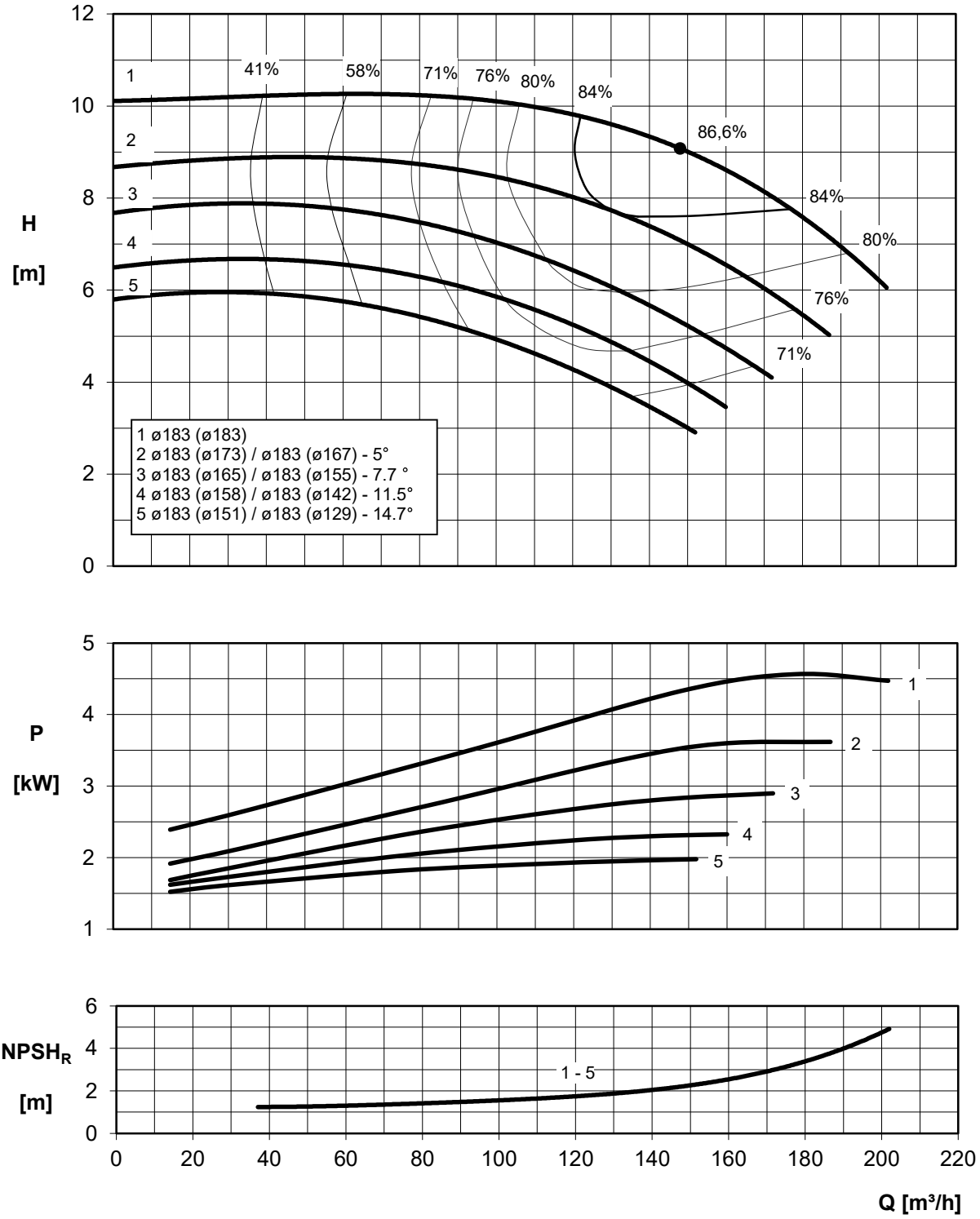


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 100160				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

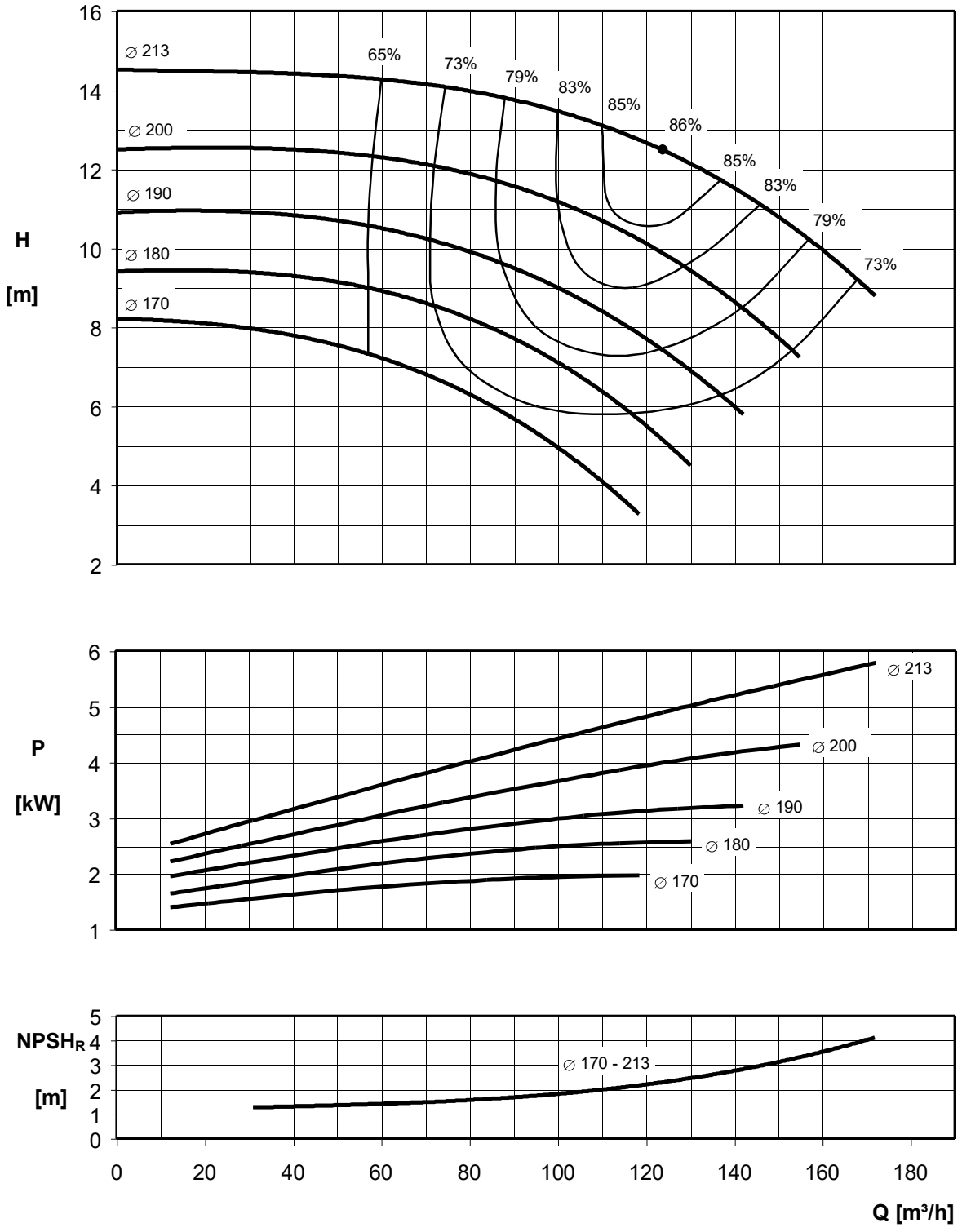


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 100200				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

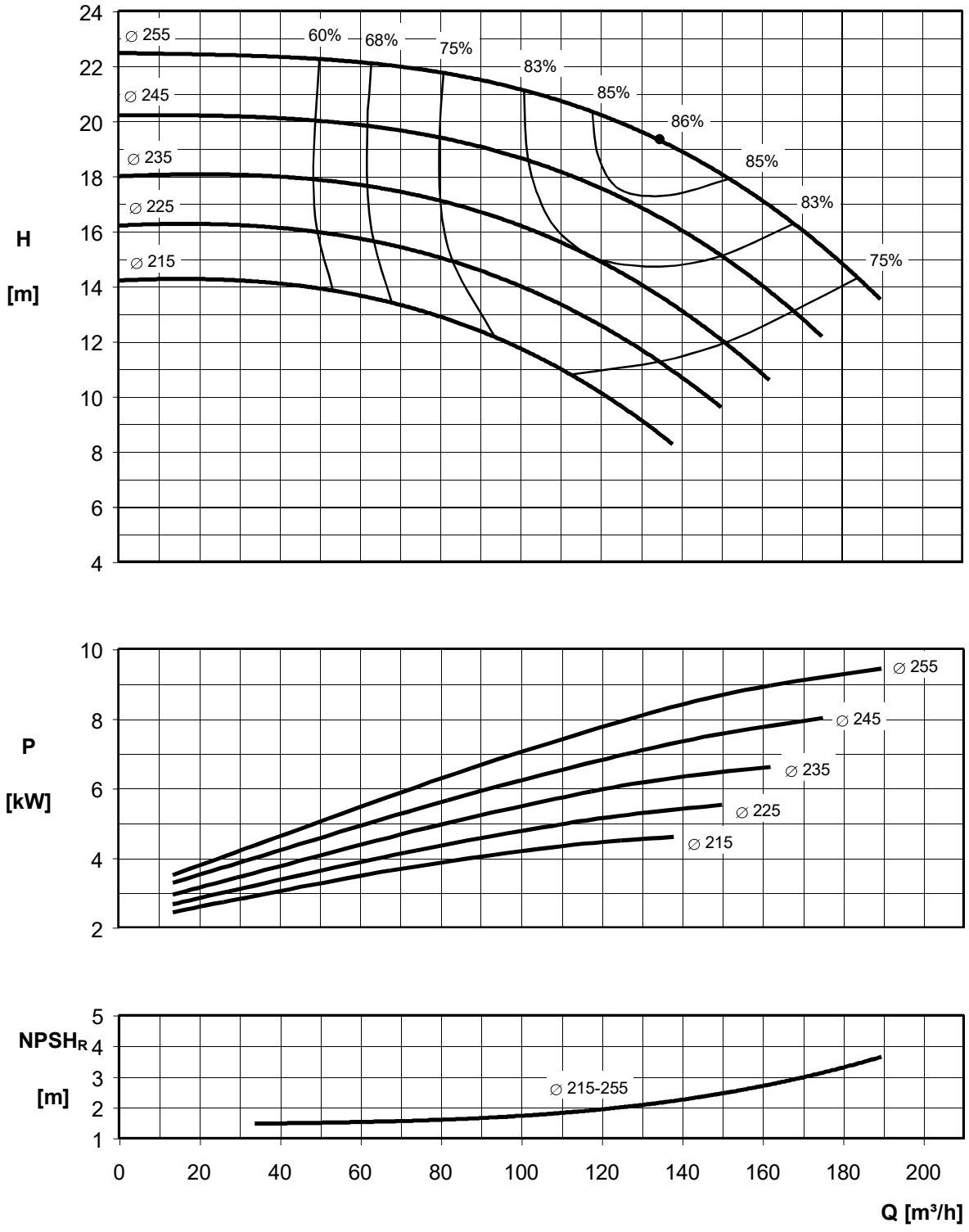


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 100250				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

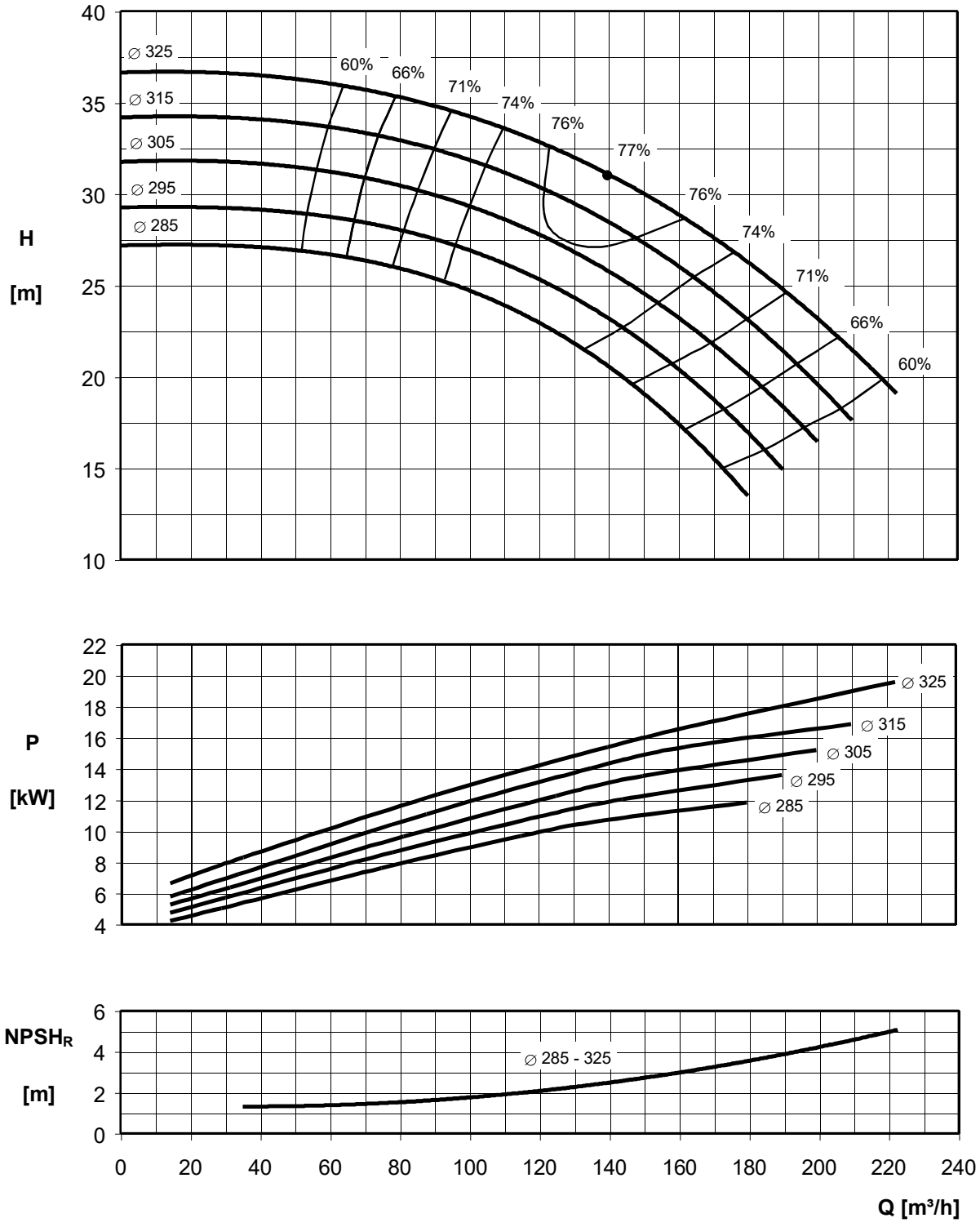


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 100315				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

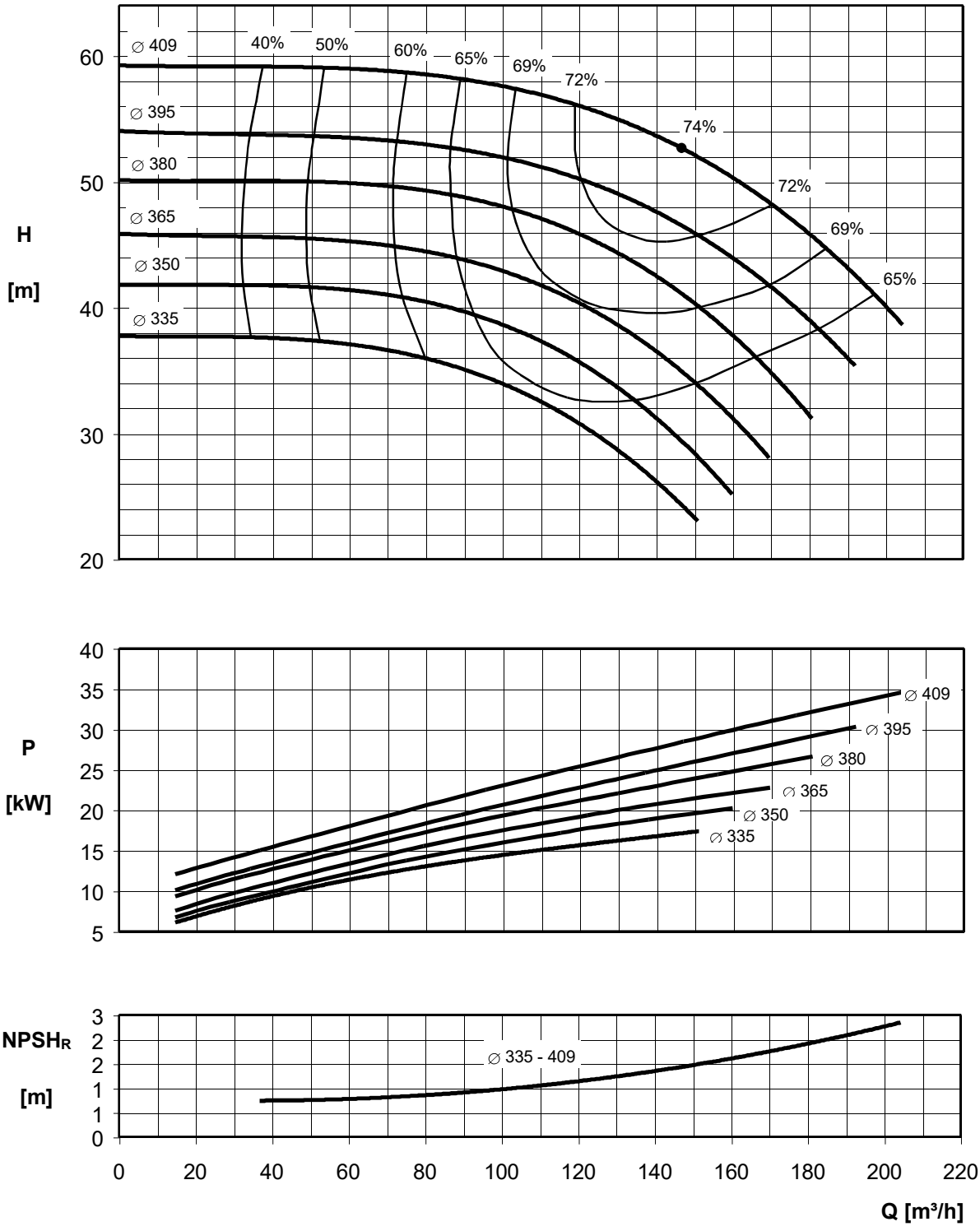


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 100400					Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**										

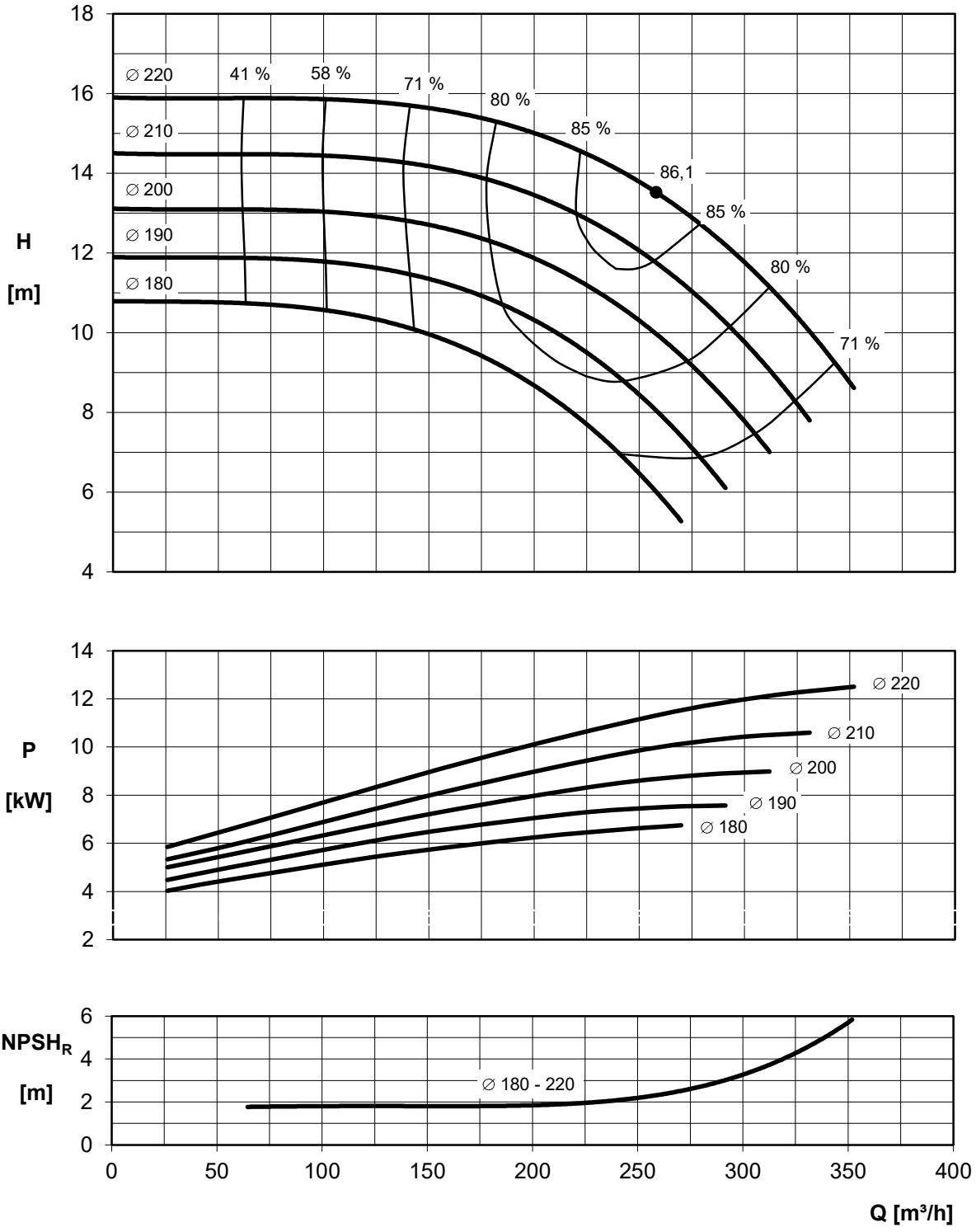


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI SuperNova 125200				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

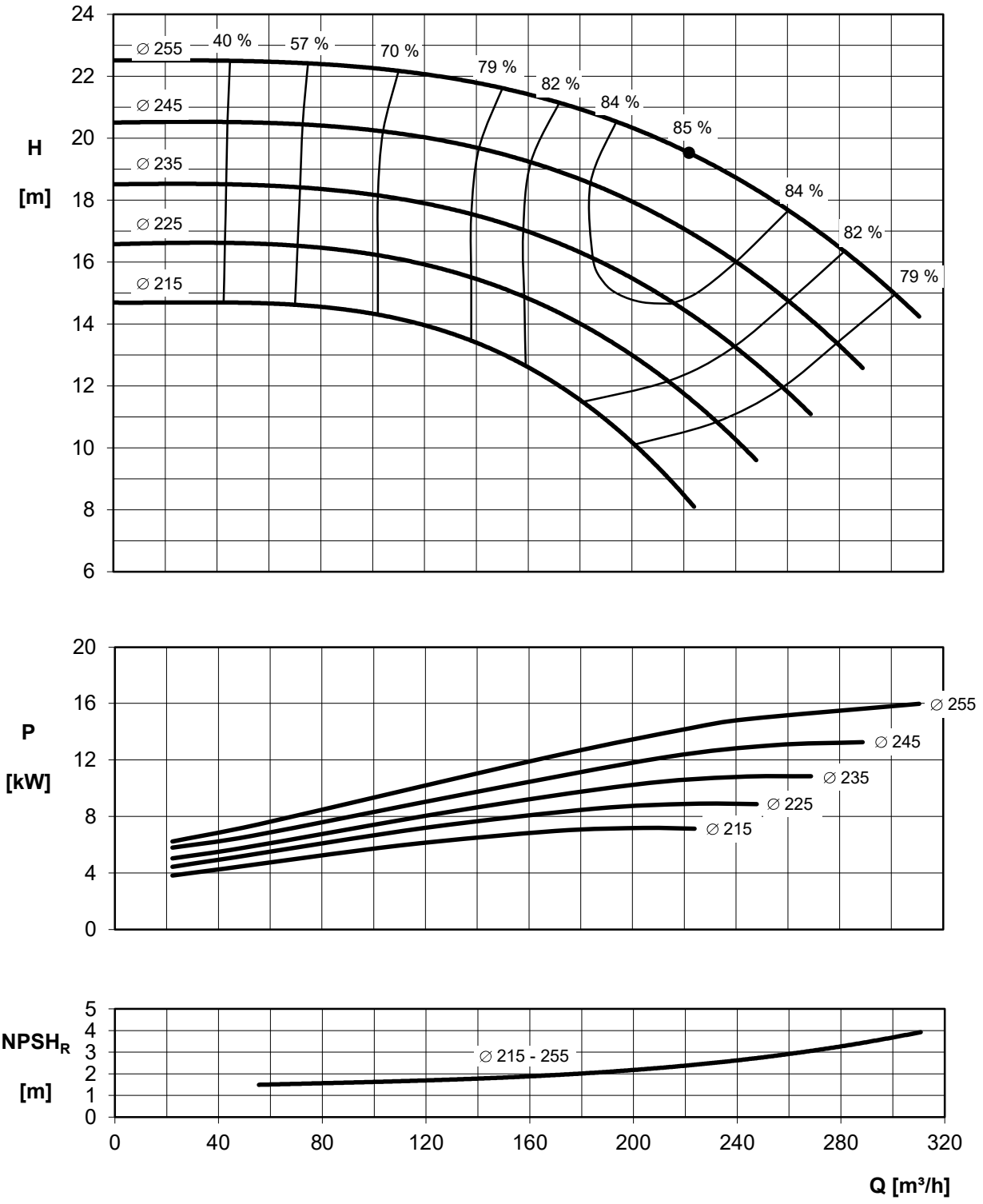


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 125250				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

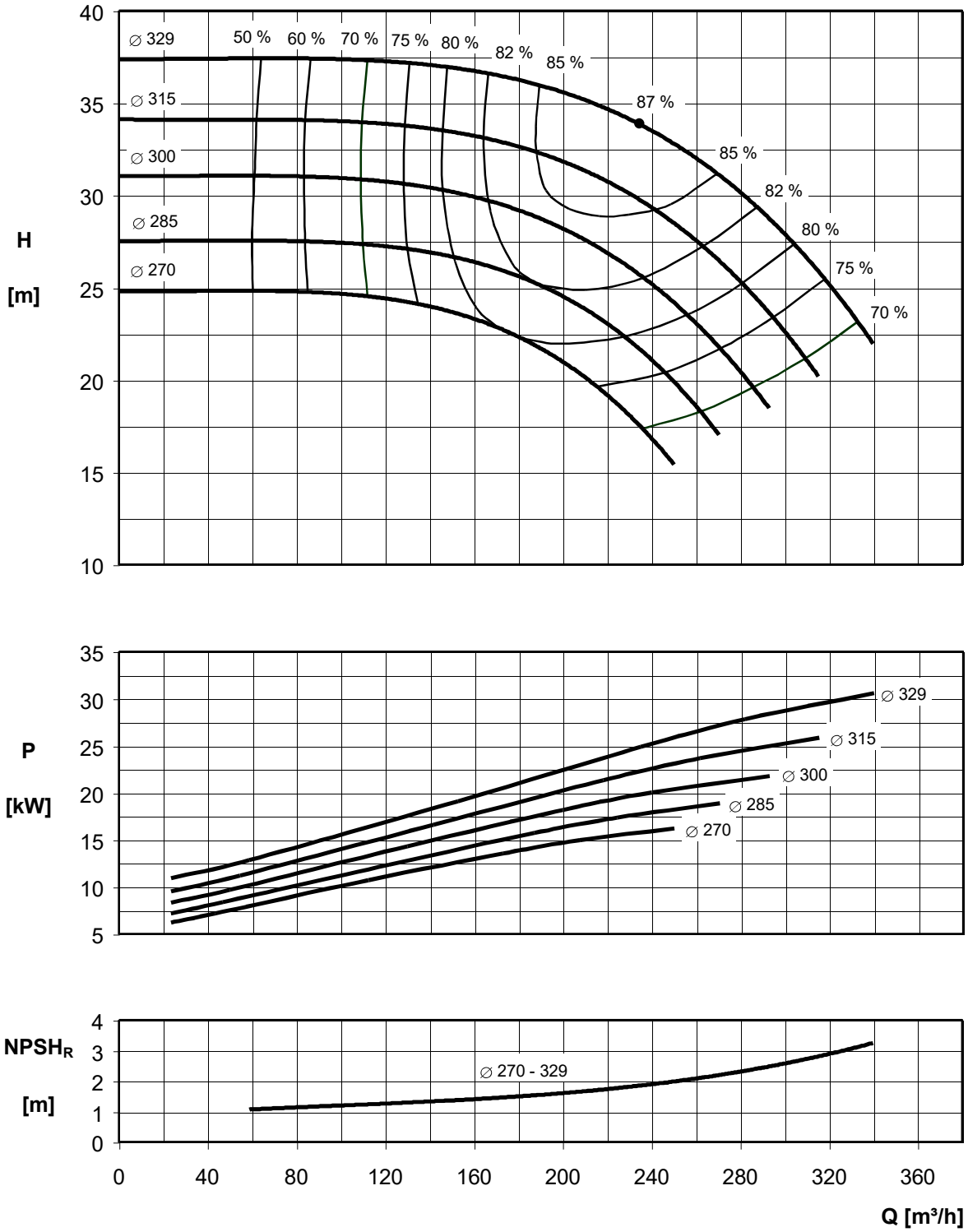


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 125315	Nenndrehzahl / *nominal speed* 1450 min^{-1}	FLOWSERVE SIHI Pumps
Baureihe / *series*	**ZLND**	

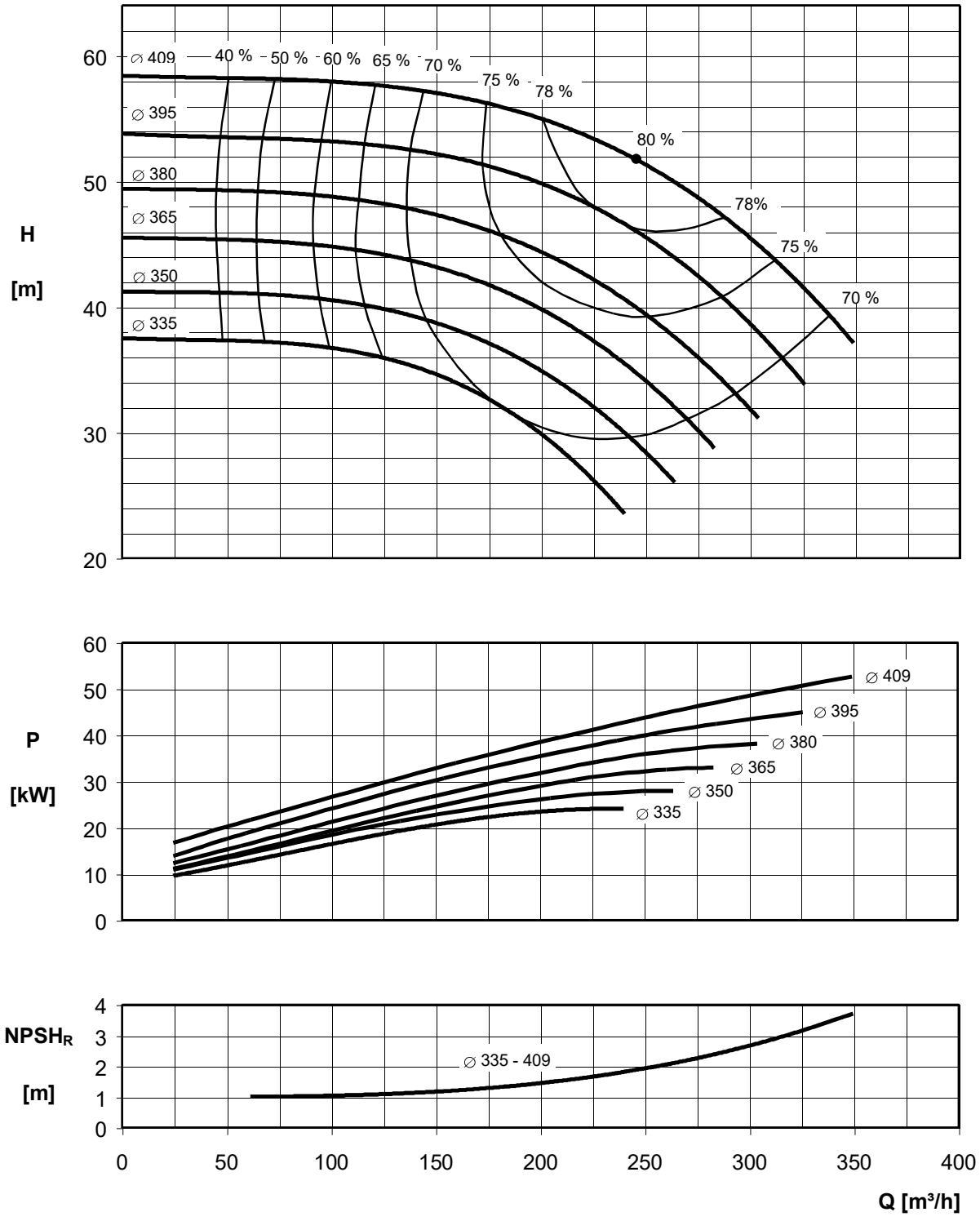


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 125400	Nenndrehzahl / *nominal speed* 1450 min^{-1}	FLOWSERVE SIHI Pumps
Baureihe / *series*	**ZLND**	

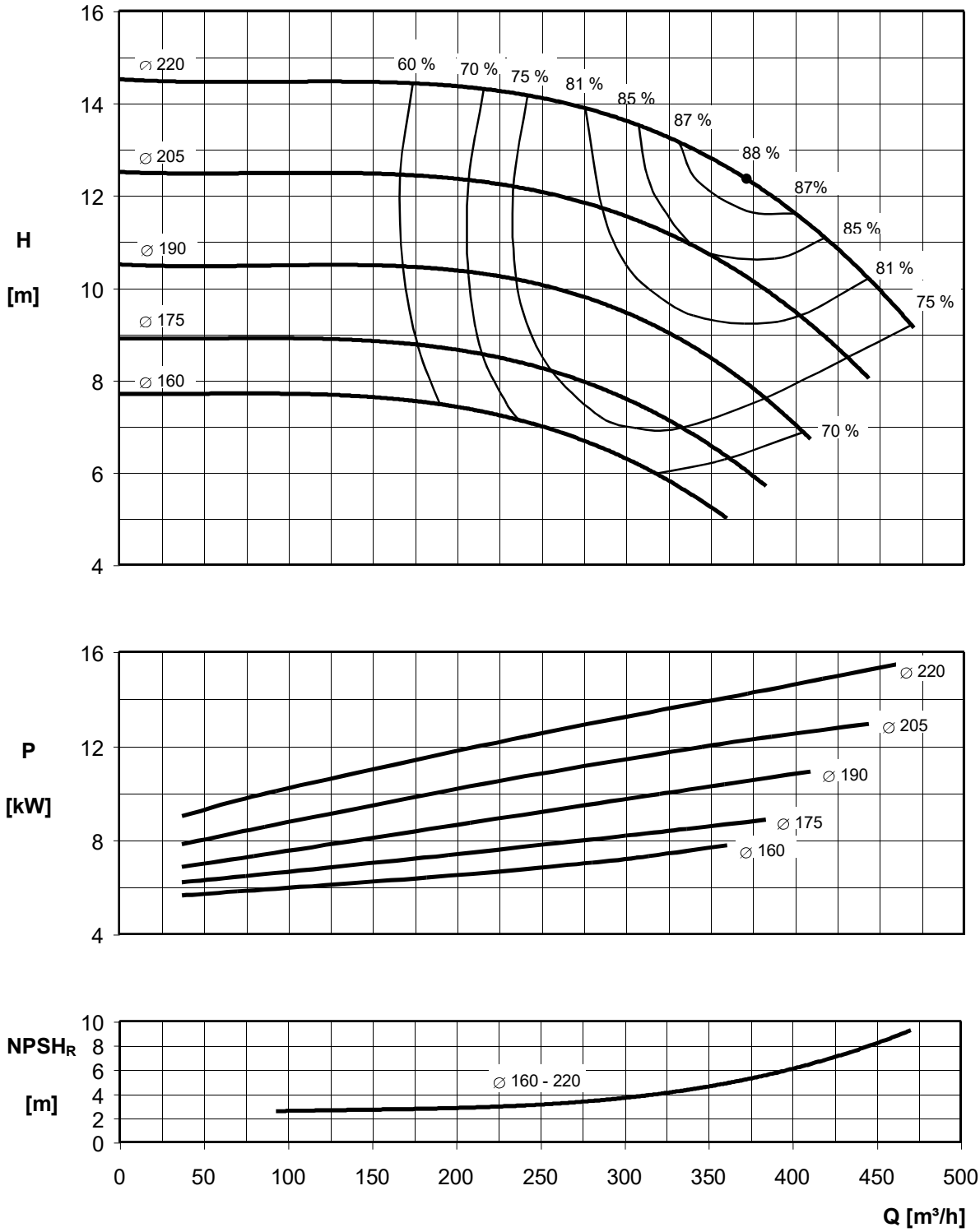


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 150200				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

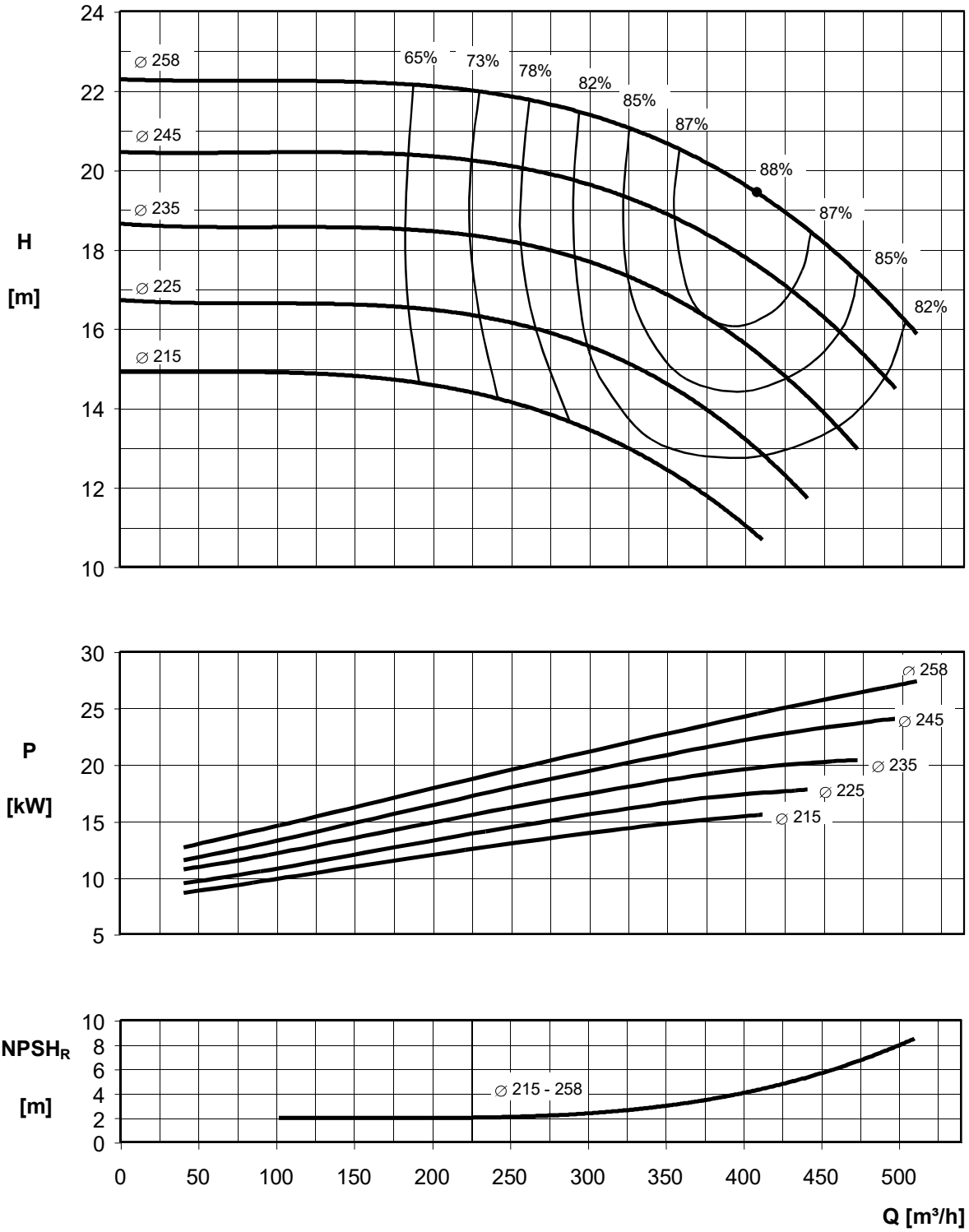


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 150250				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

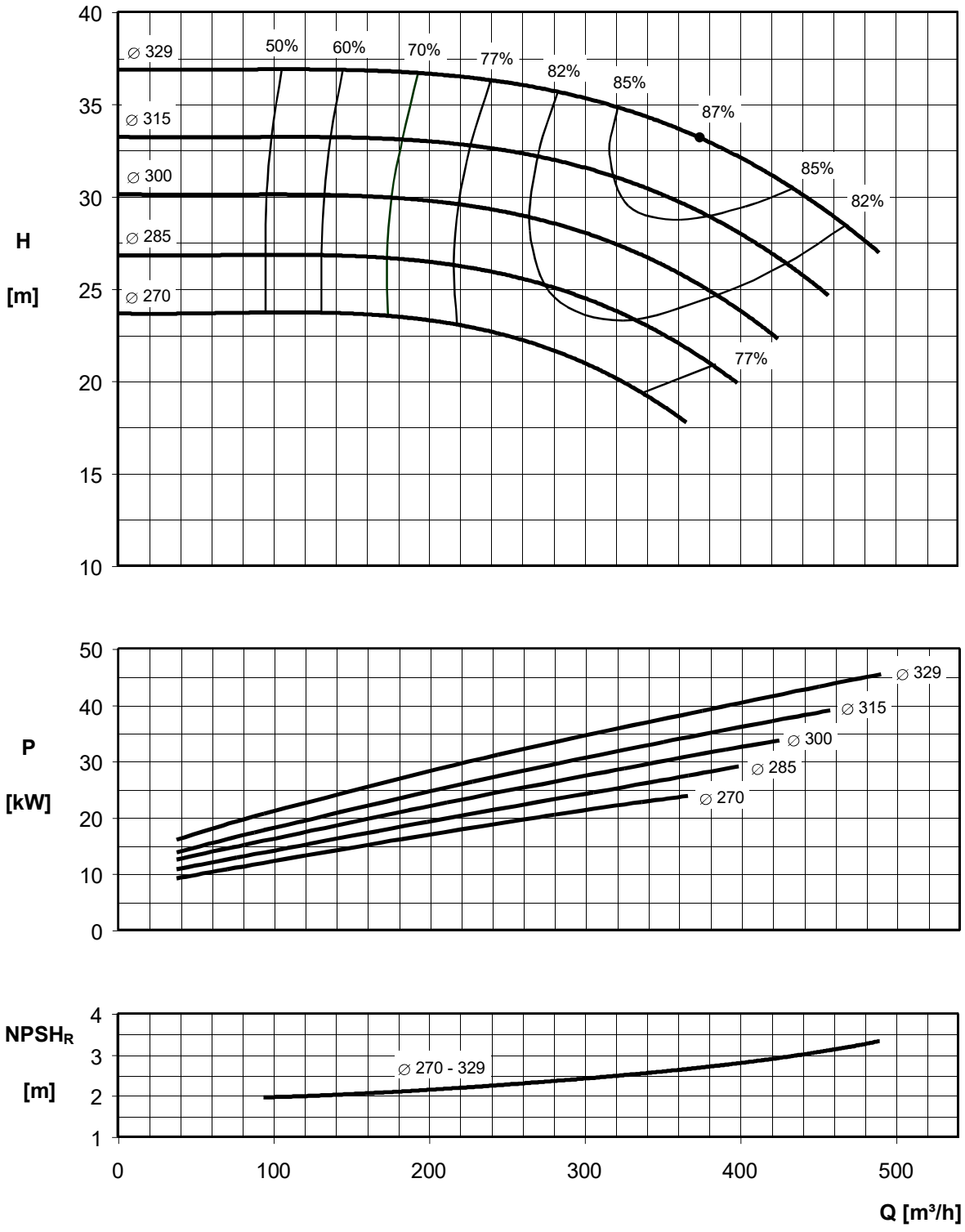


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 150315			Nenndrehzahl / *nominal speed* 1450 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

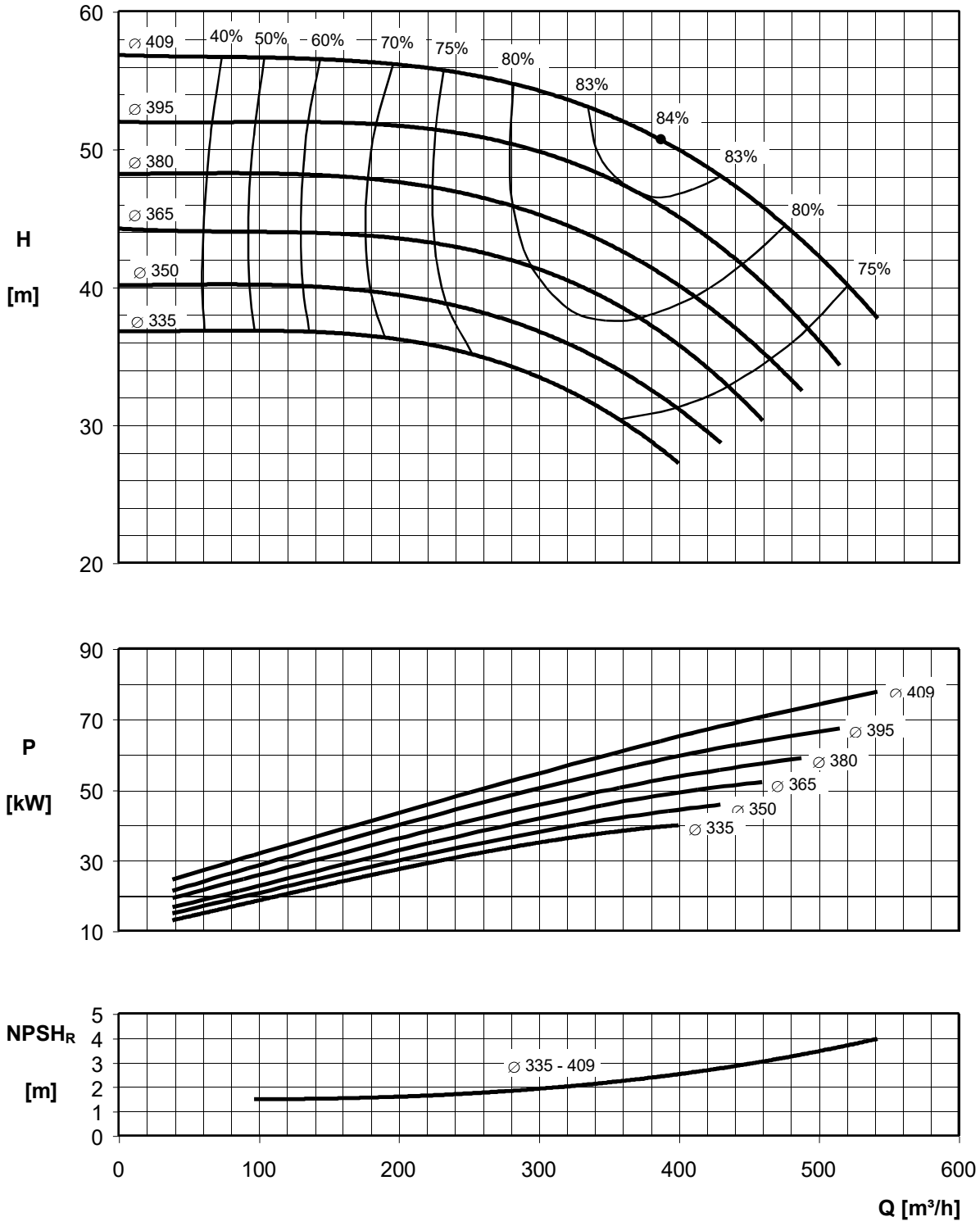


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 150400			Nenndrehzahl / *nominal speed* 1450 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

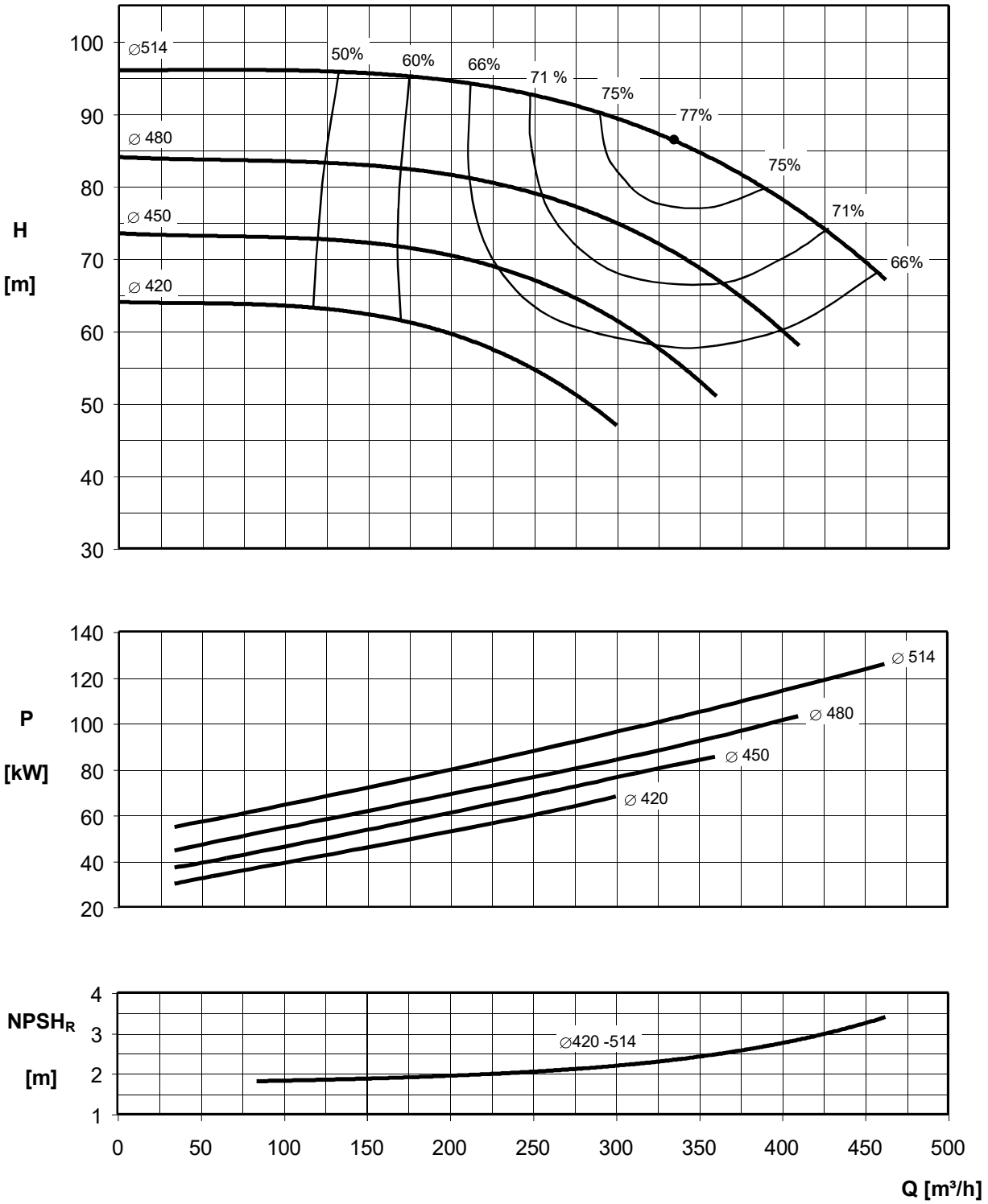


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 150500			Nenndrehzahl / *nominal speed* 1480 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

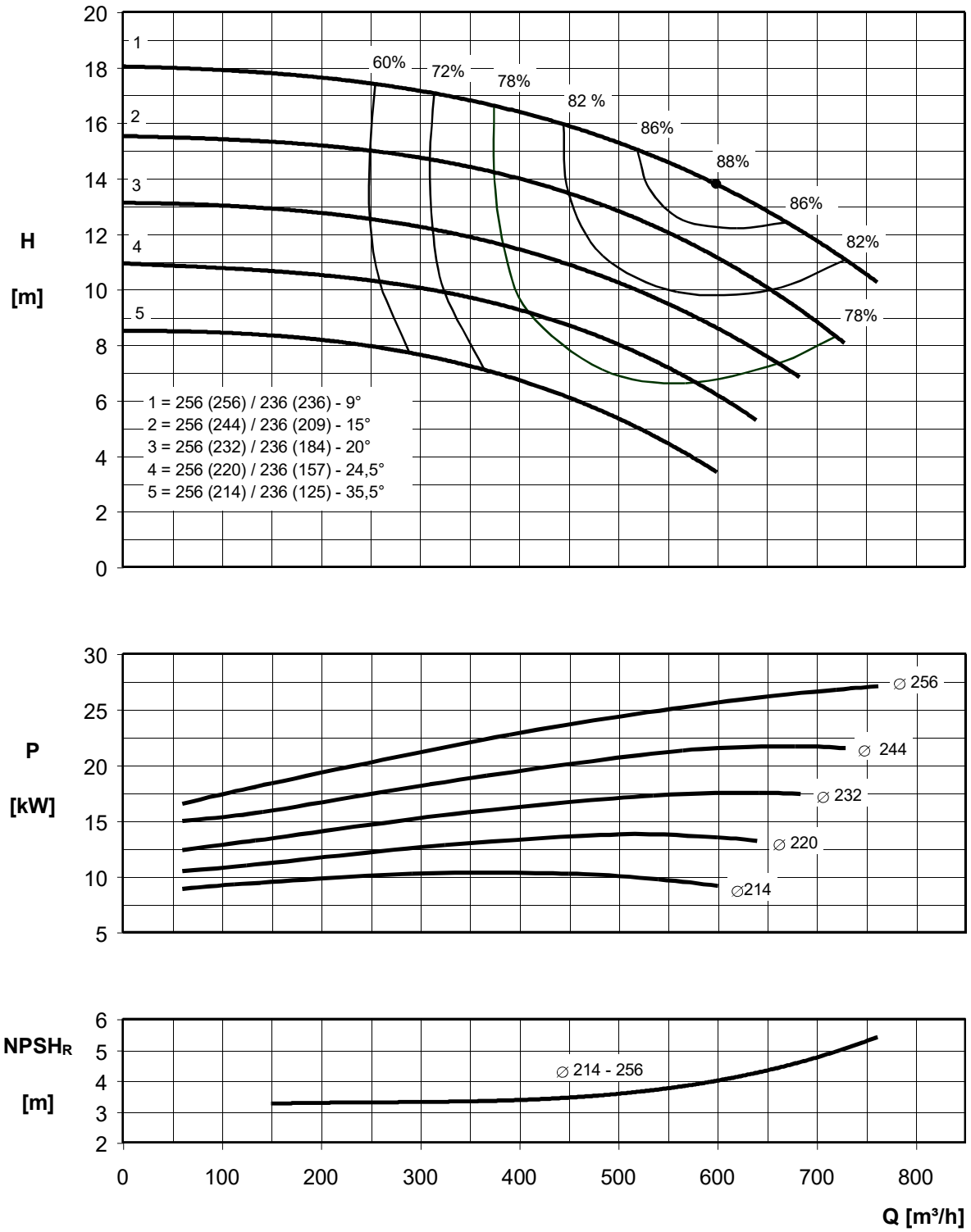


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 200250				Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

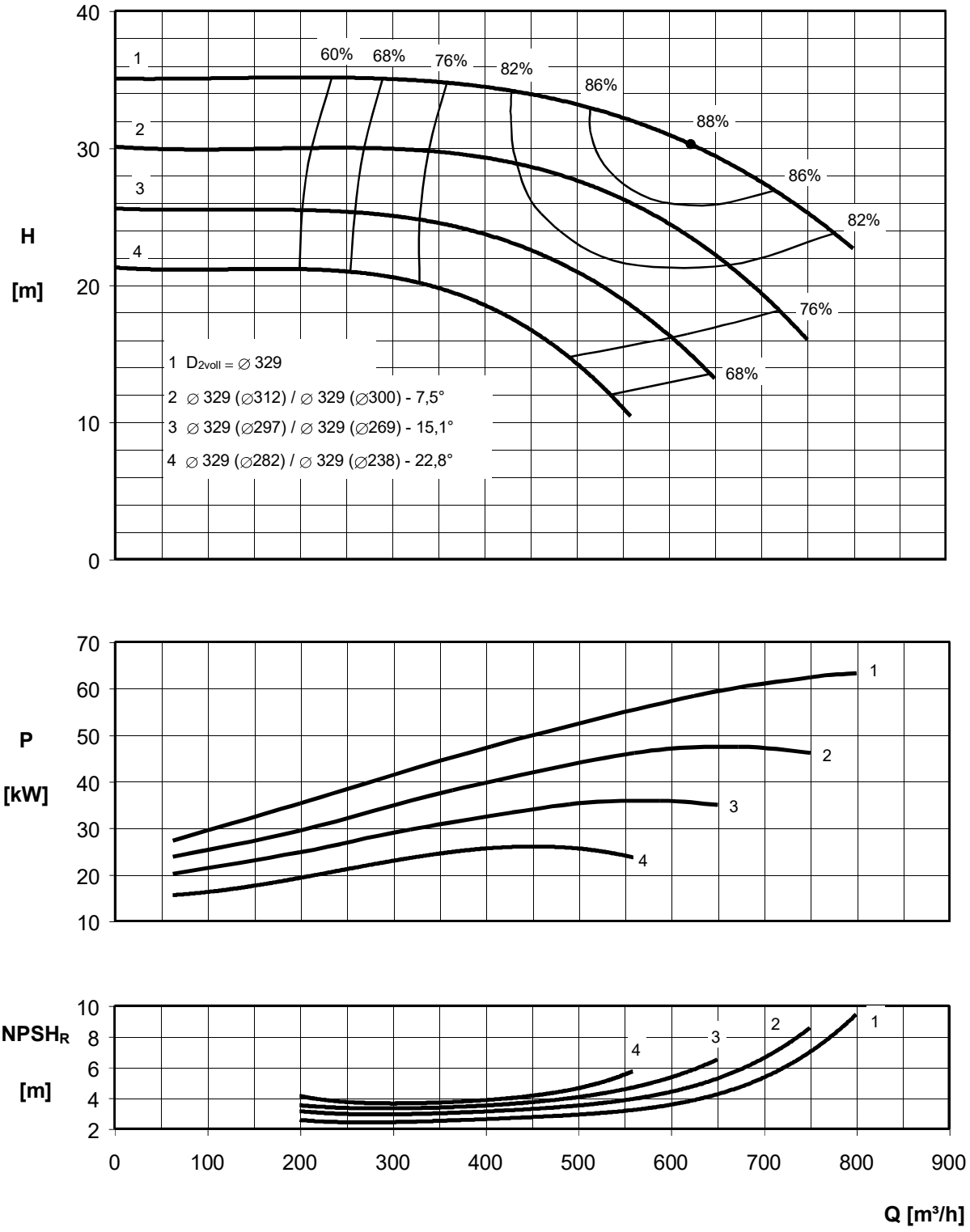


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 200315			Nenndrehzahl / *nominal speed* 1450 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

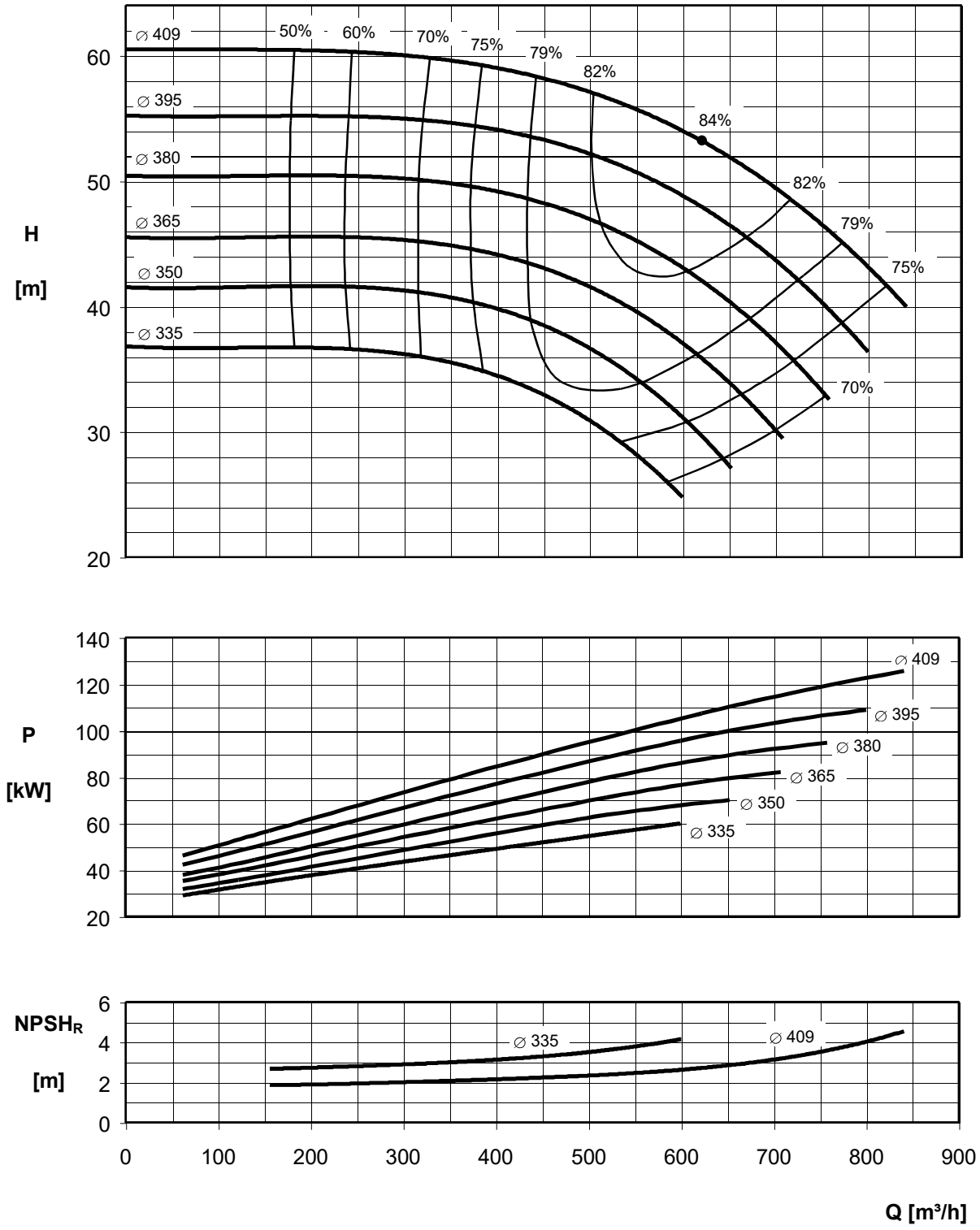


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 200400			Nenndrehzahl / *nominal speed* 1480 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

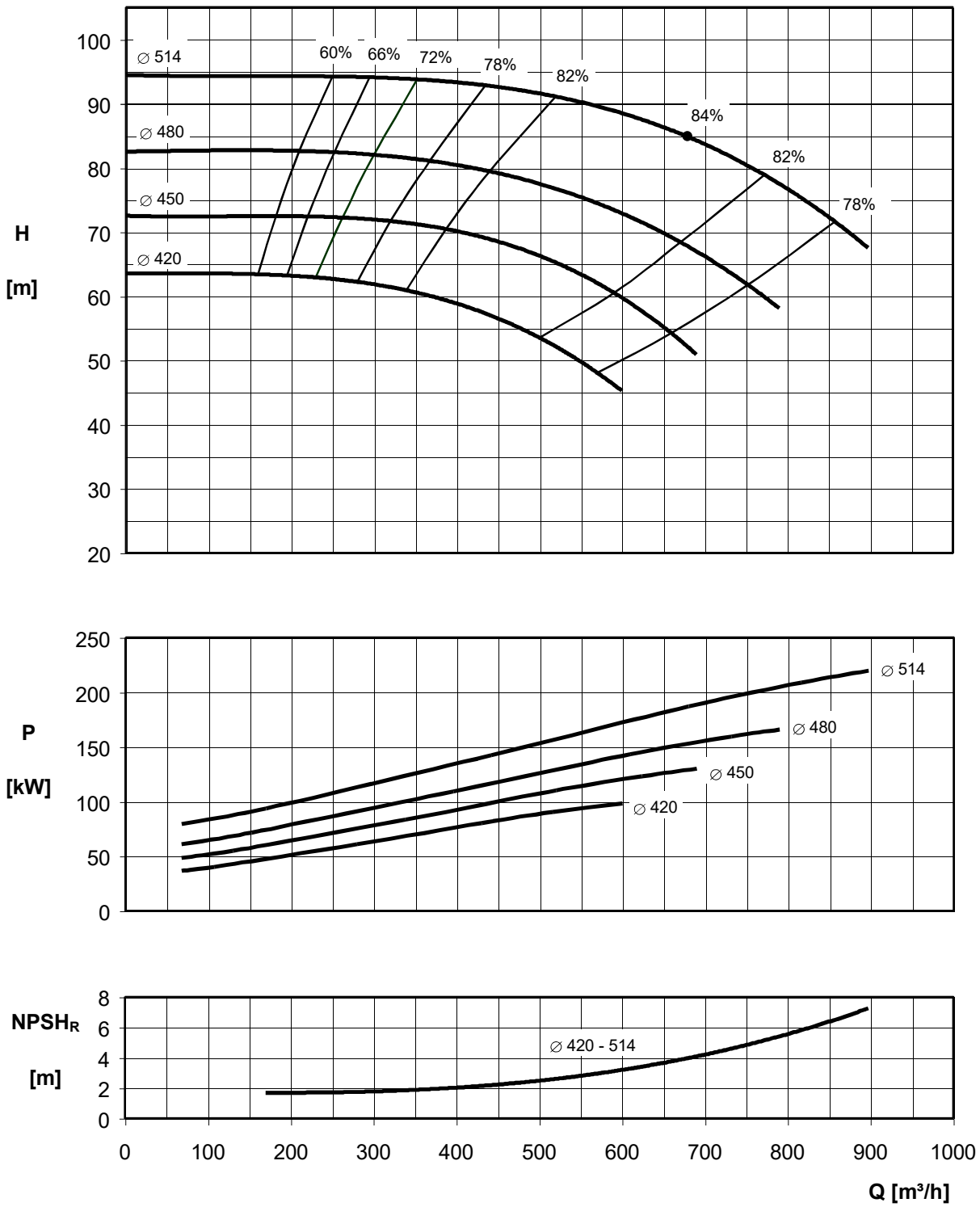


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 200500			Nenndrehzahl / *nominal speed* 1480 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							

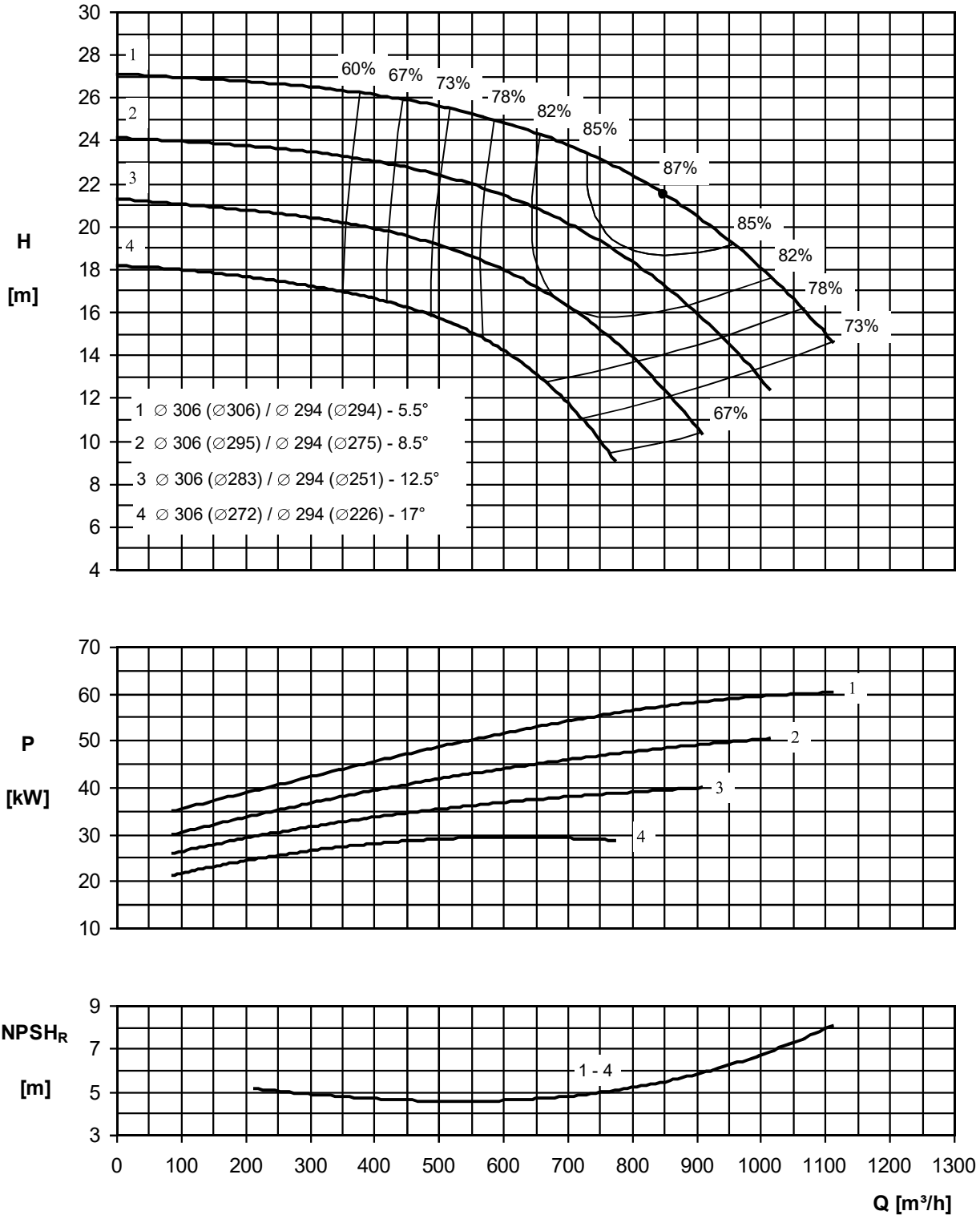


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 250300					Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**										

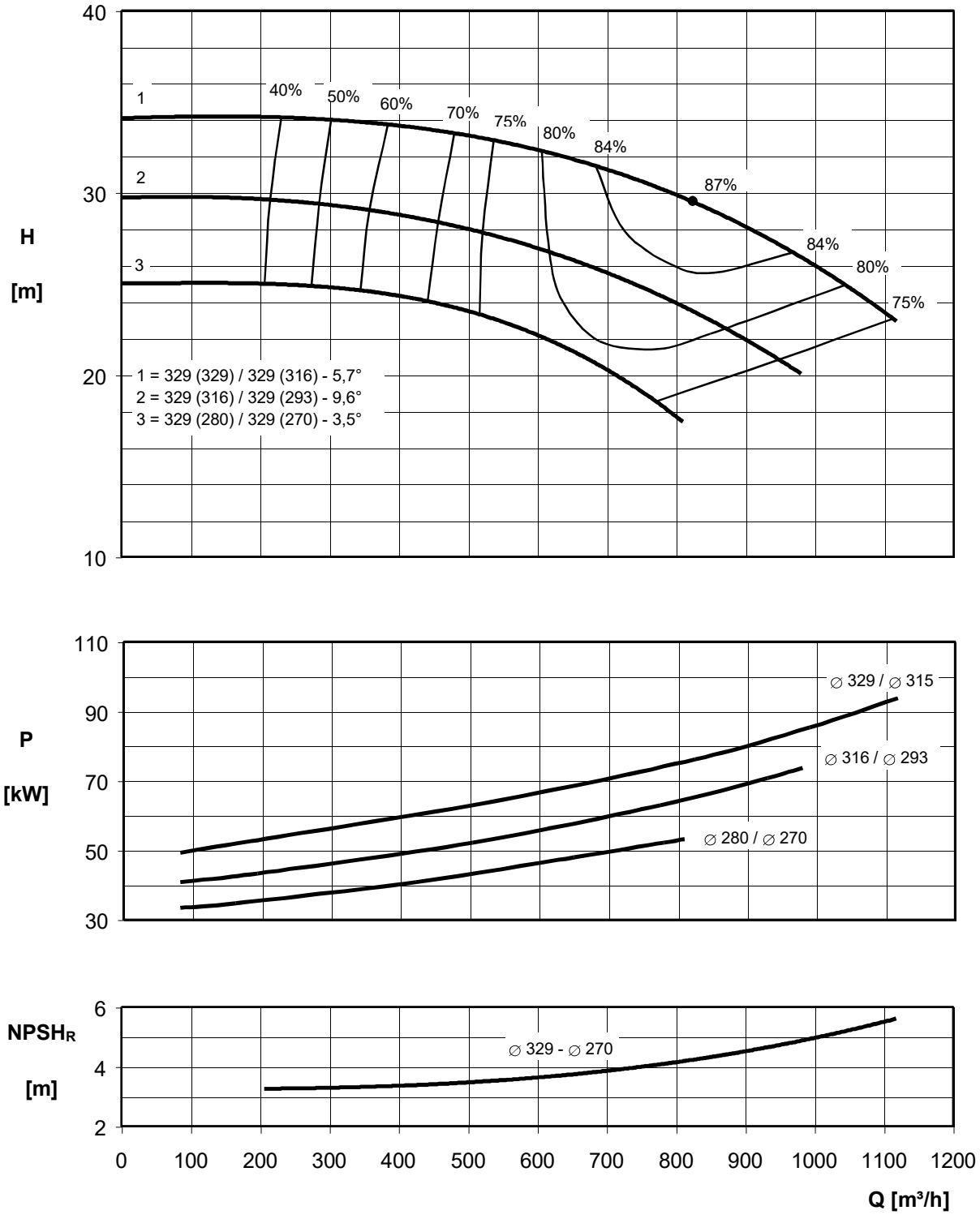


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 250315					Nenndrehzahl / *nominal speed* 1450 min^{-1}						
Baureihe / *series*	**ZLND**										

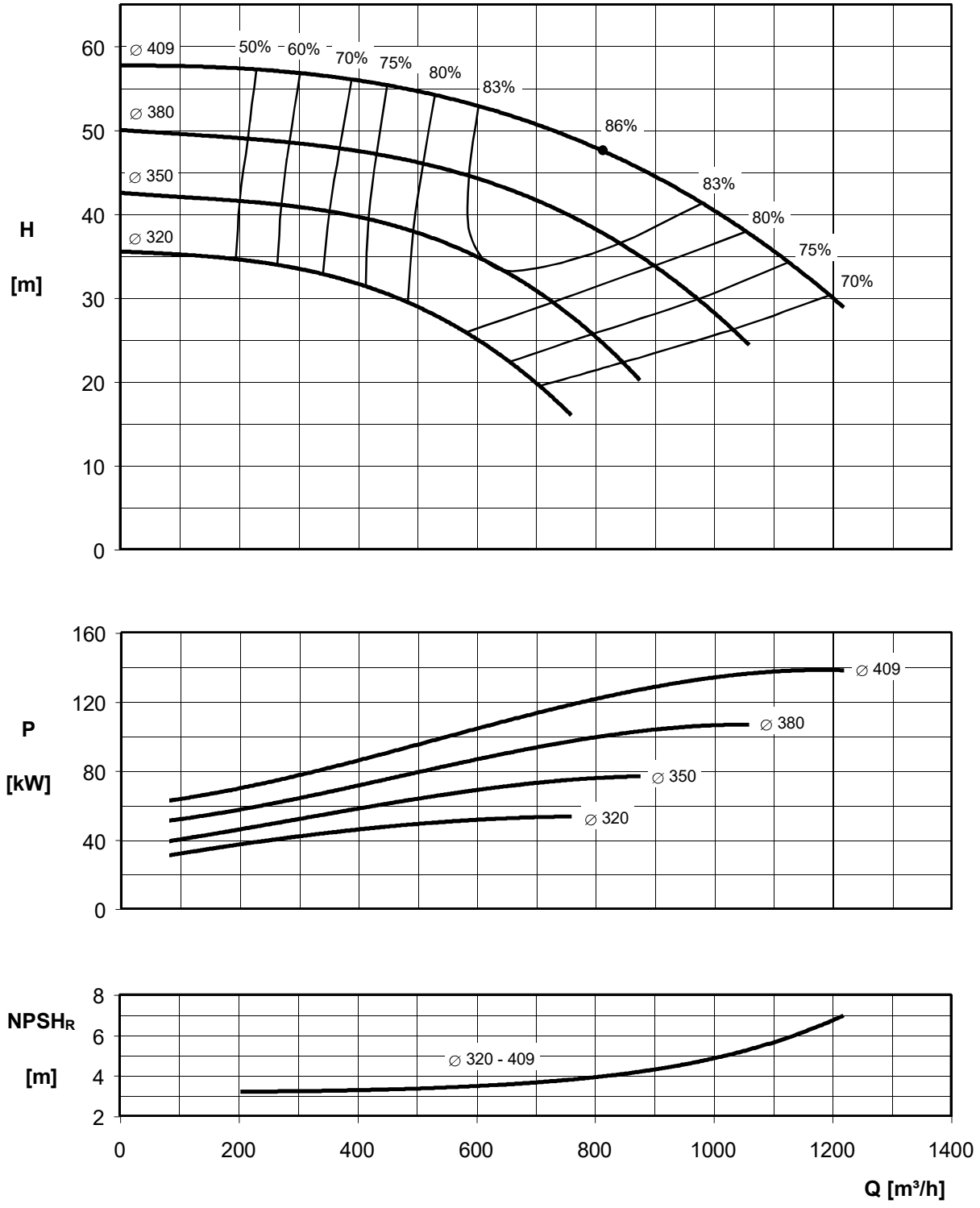


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 250400					Nenndrehzahl / *nominal speed* 1480 min^{-1}						
Baureihe / *series*	**ZLND**										

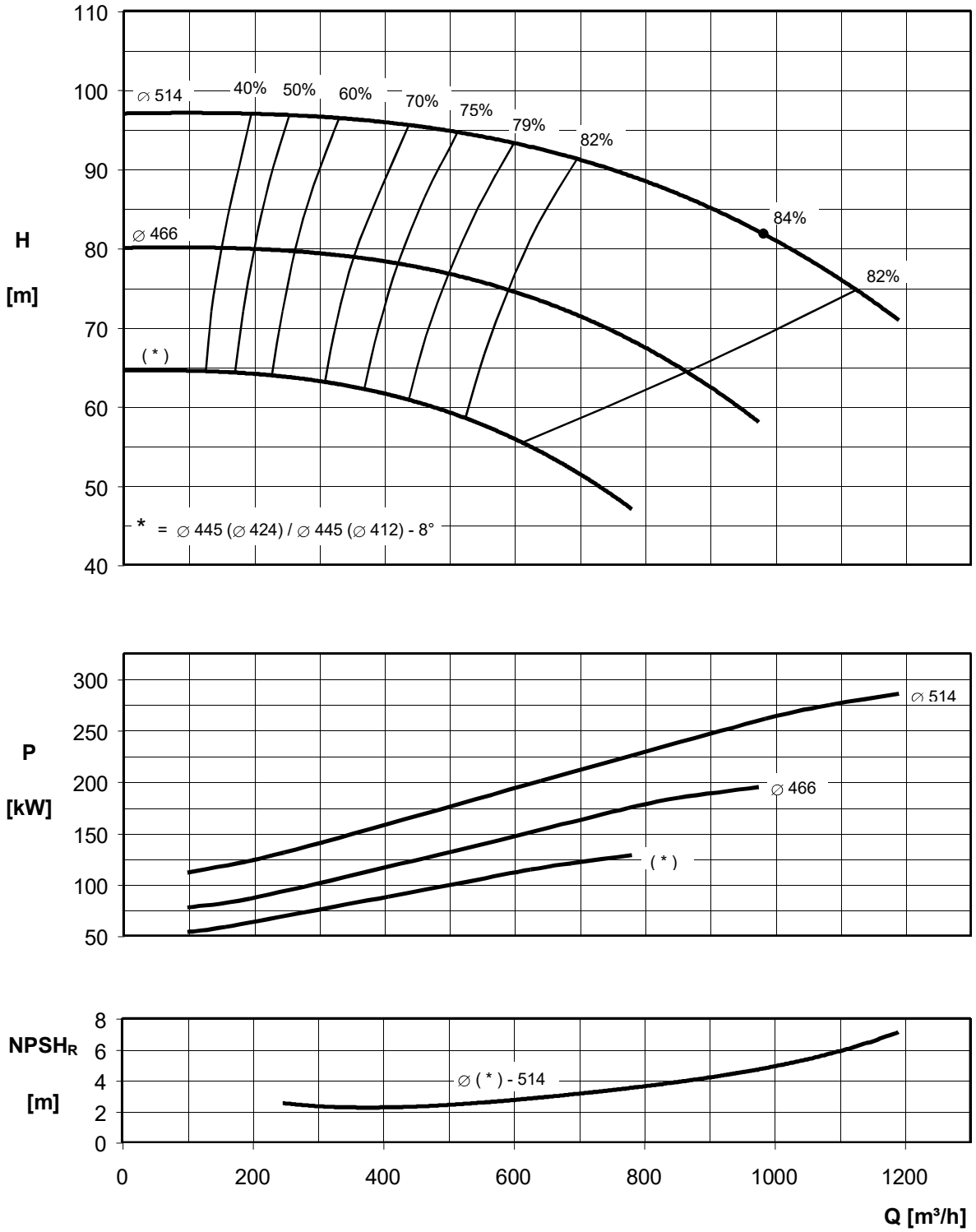


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 250500					Nenndrehzahl / *nominal speed* 1480 min^{-1}						
Baureihe / *series*	**ZLND**										

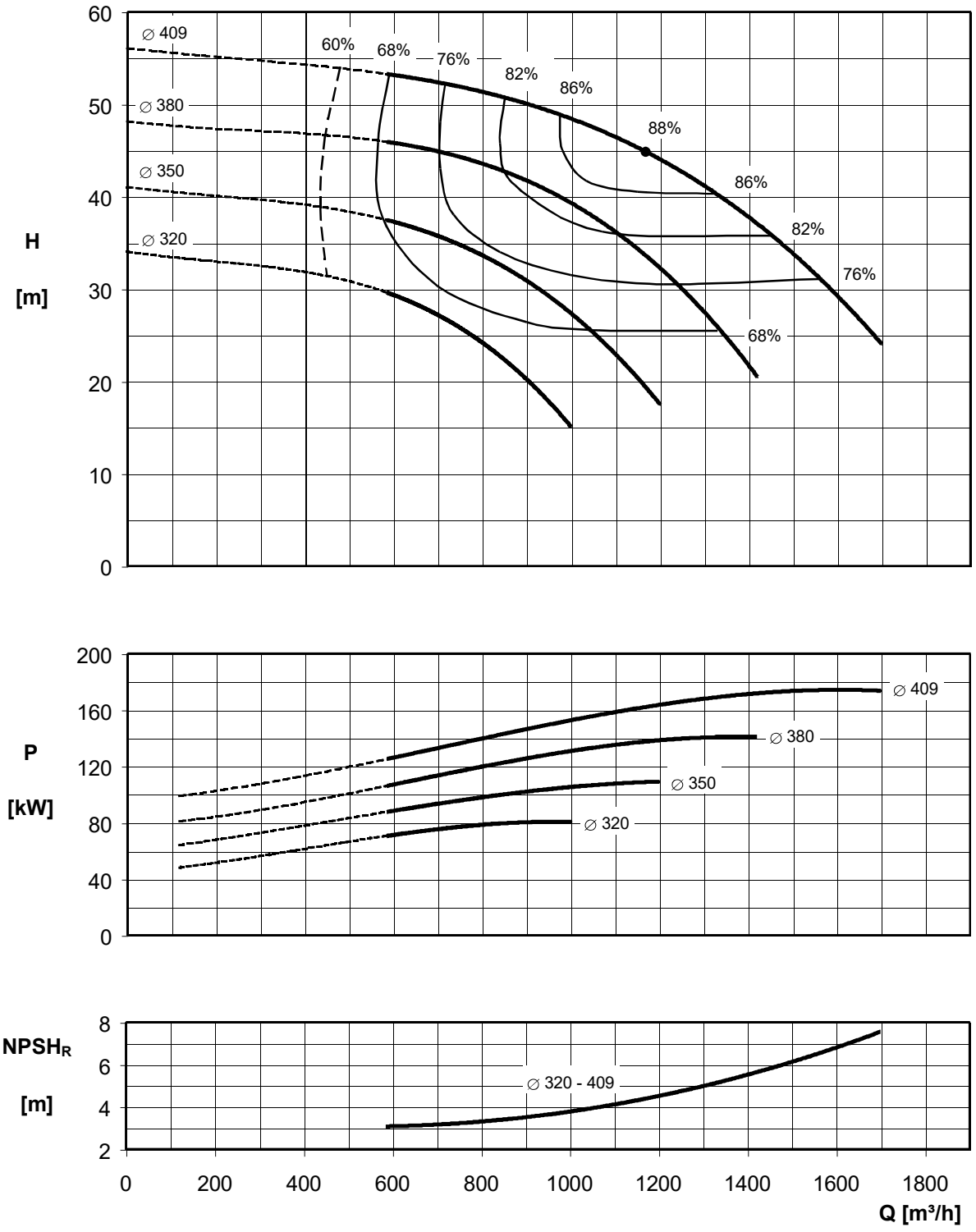


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 300400					Nenndrehzahl / *nominal speed* 1480 min^{-1}						
Baureihe / *series*	**ZLND**										

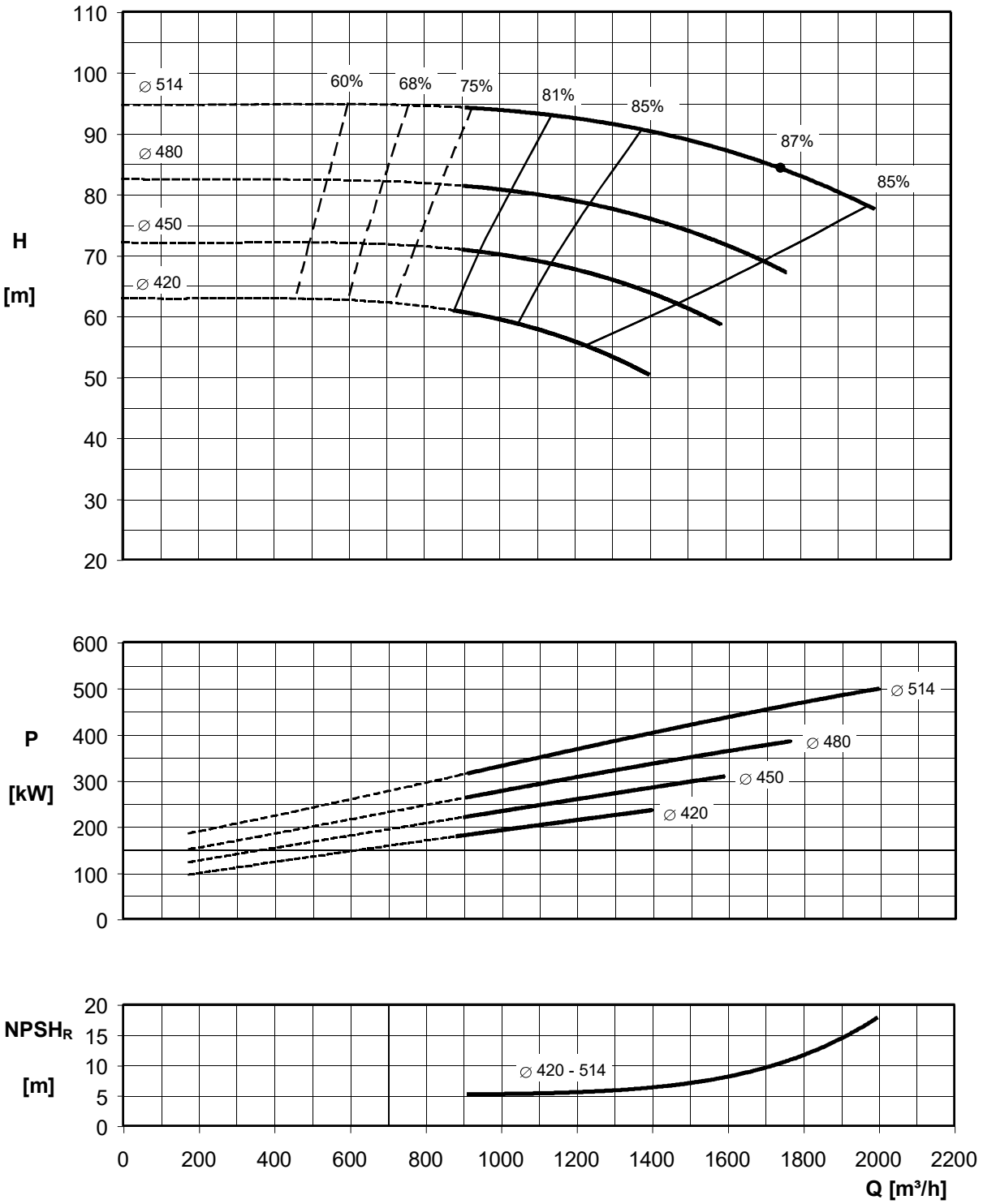


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 300500					Nenndrehzahl / *nominal speed* 1480 min^{-1}						
Baureihe / *series*	**ZLND**										

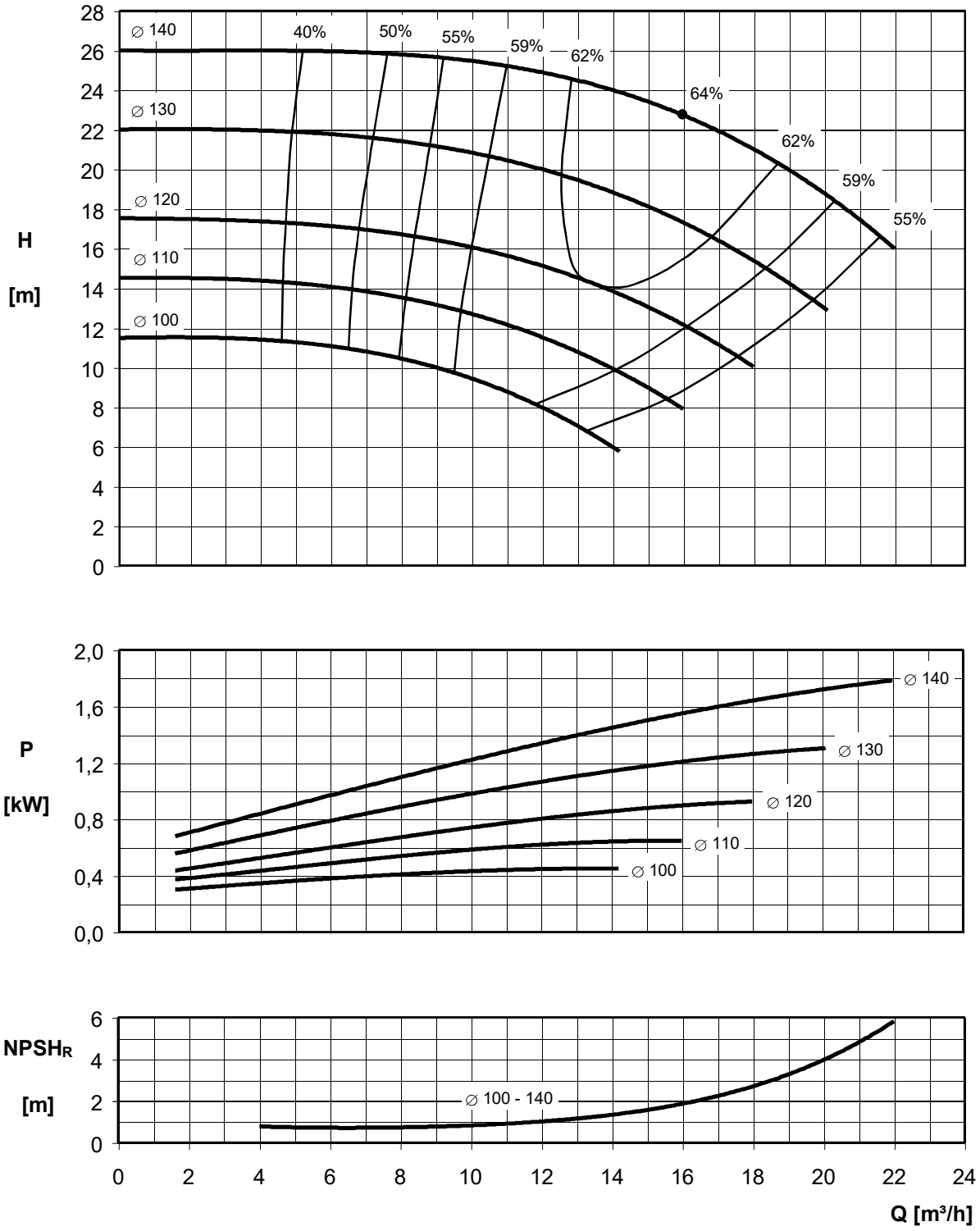


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032125				Nenndrehzahl / *nominal speed* 2900 min^{-1}							FLOWSERVE SIHI Pumps
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**								



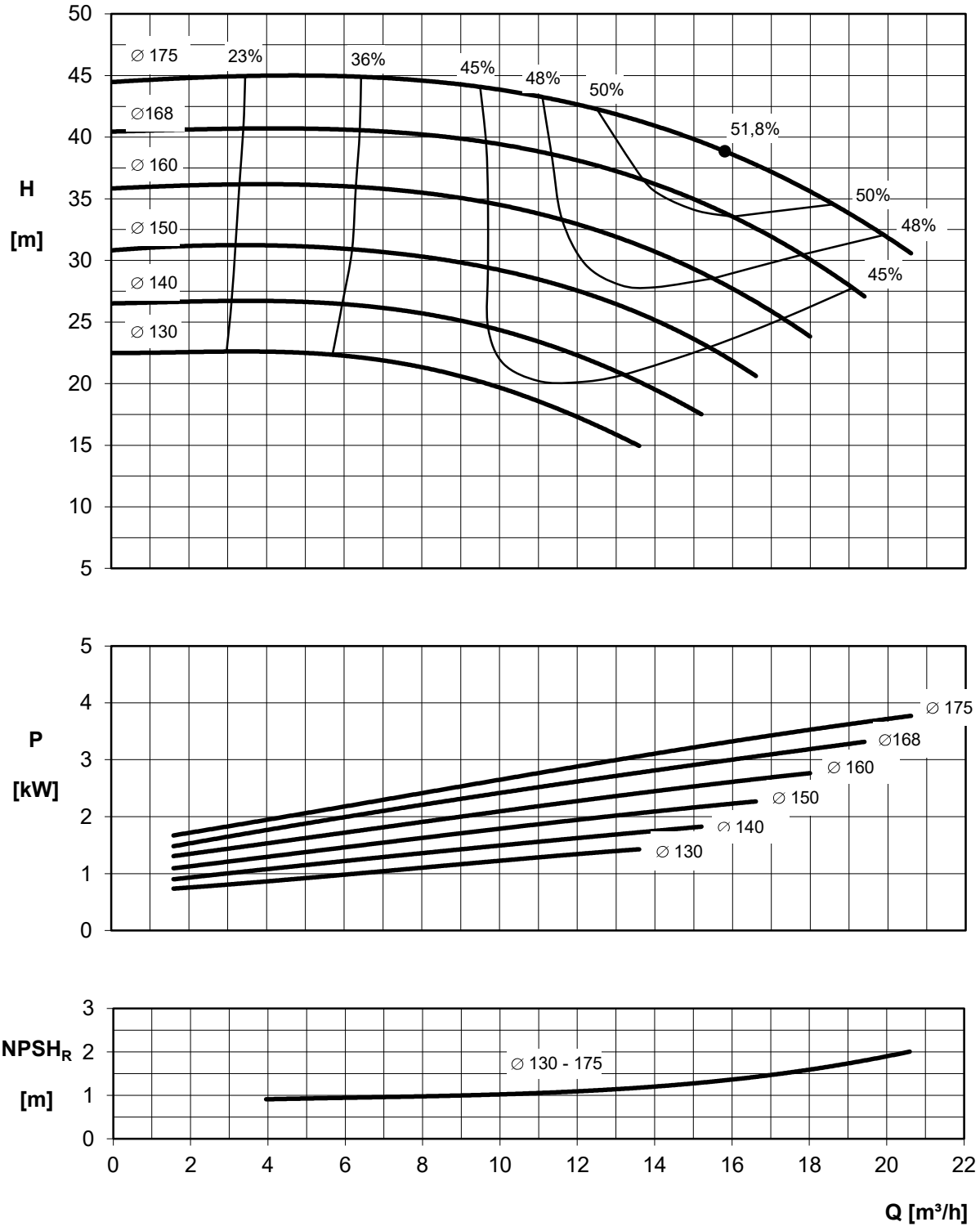
1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032160A										
Baureihen / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

Nenndrehzahl / *nominal speed*
2900 min^{-1}

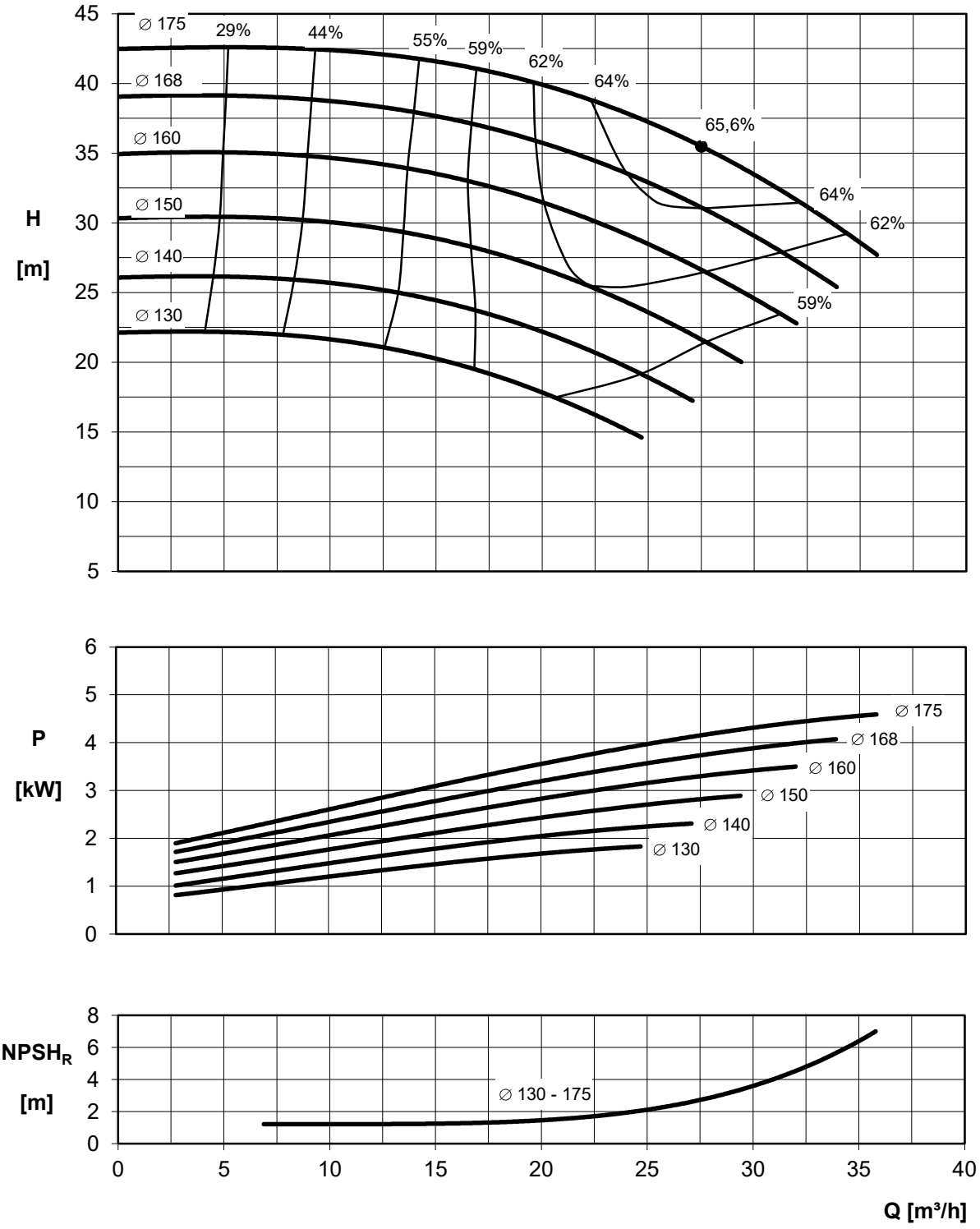


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032160B					Nenndrehzahl / *nominal speed* 2900 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

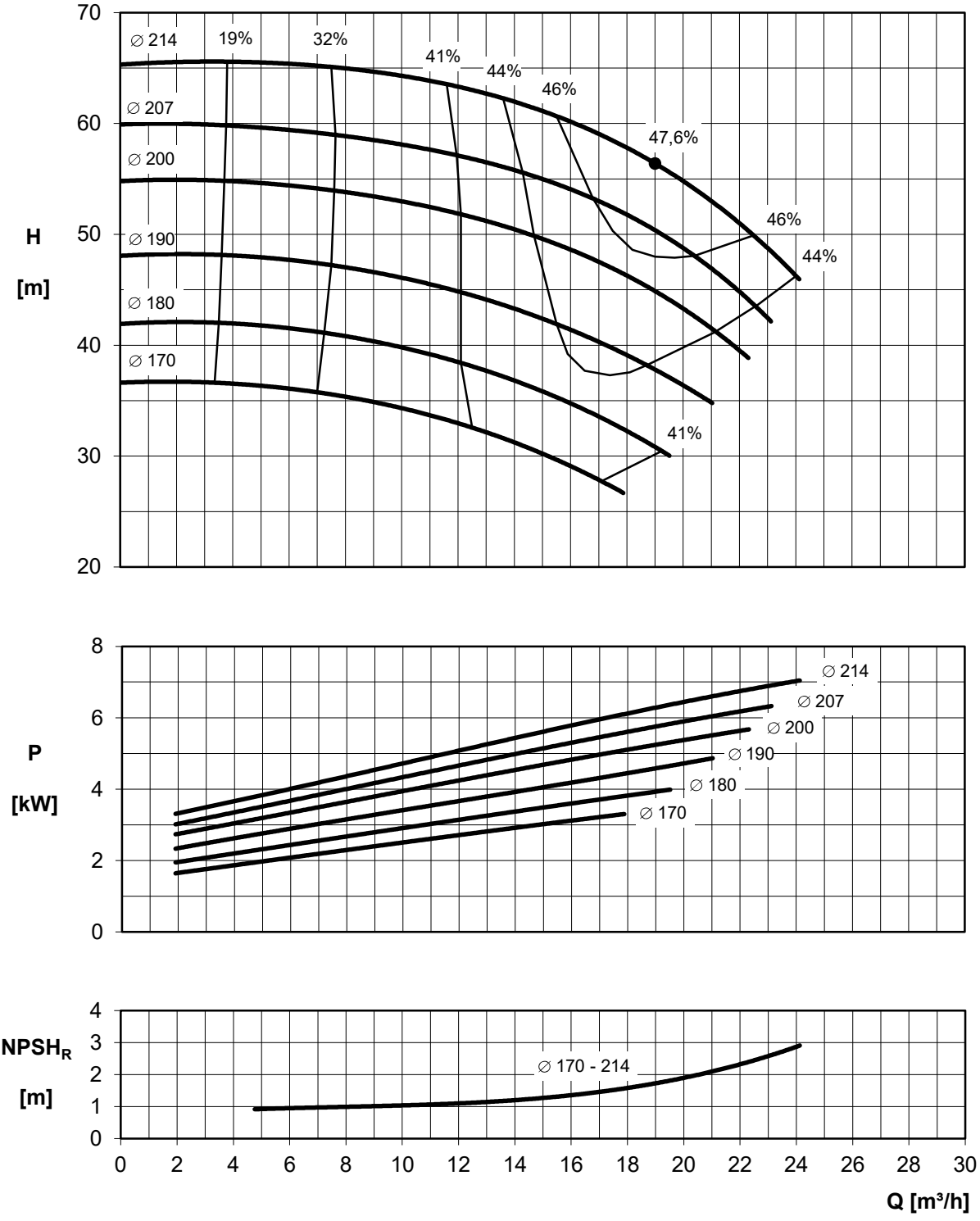


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032200A			Nenndrehzahl / *nominal speed* 2900 min^{-1}							
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

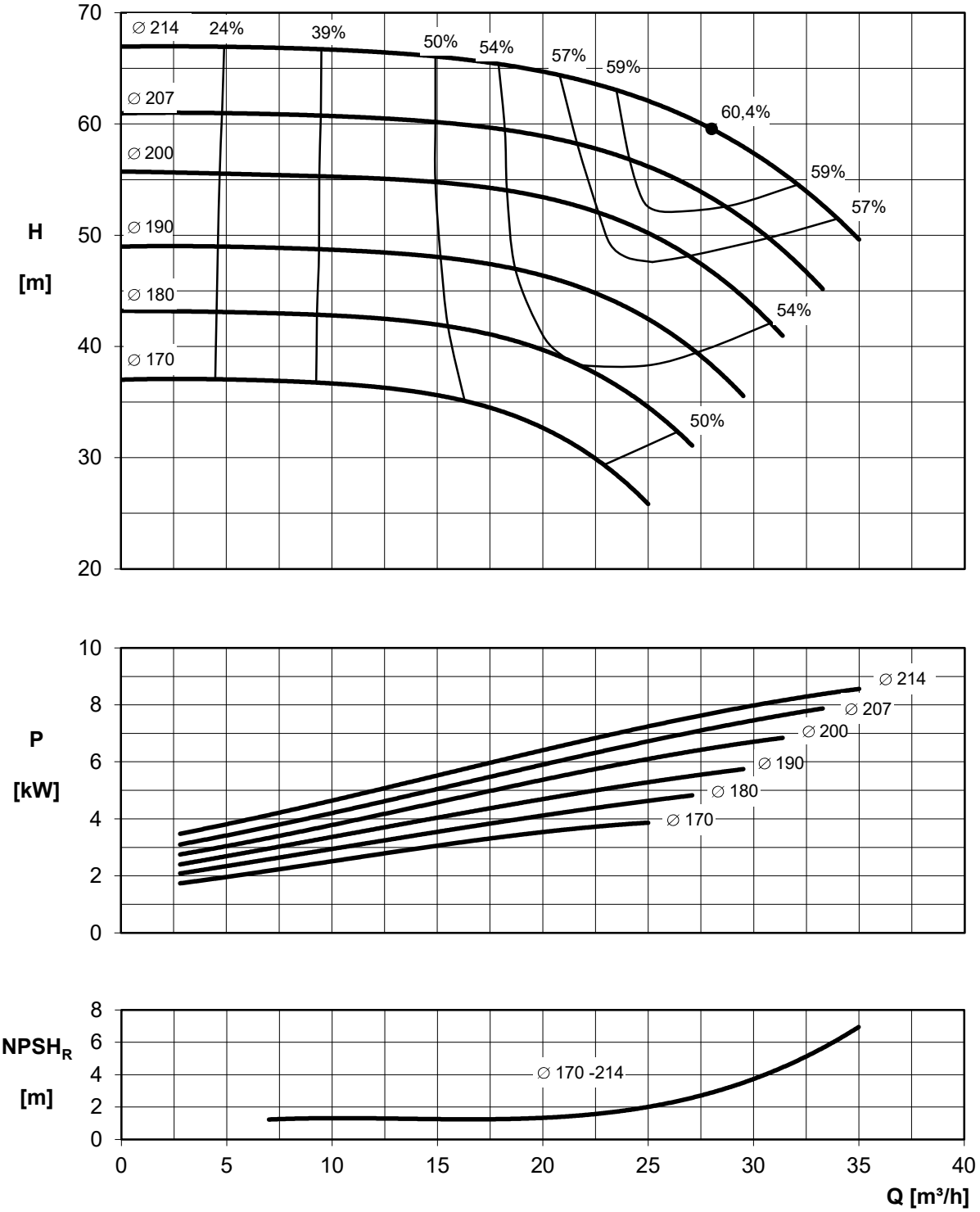


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032200B					Nenndrehzahl / *nominal speed* 2900 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

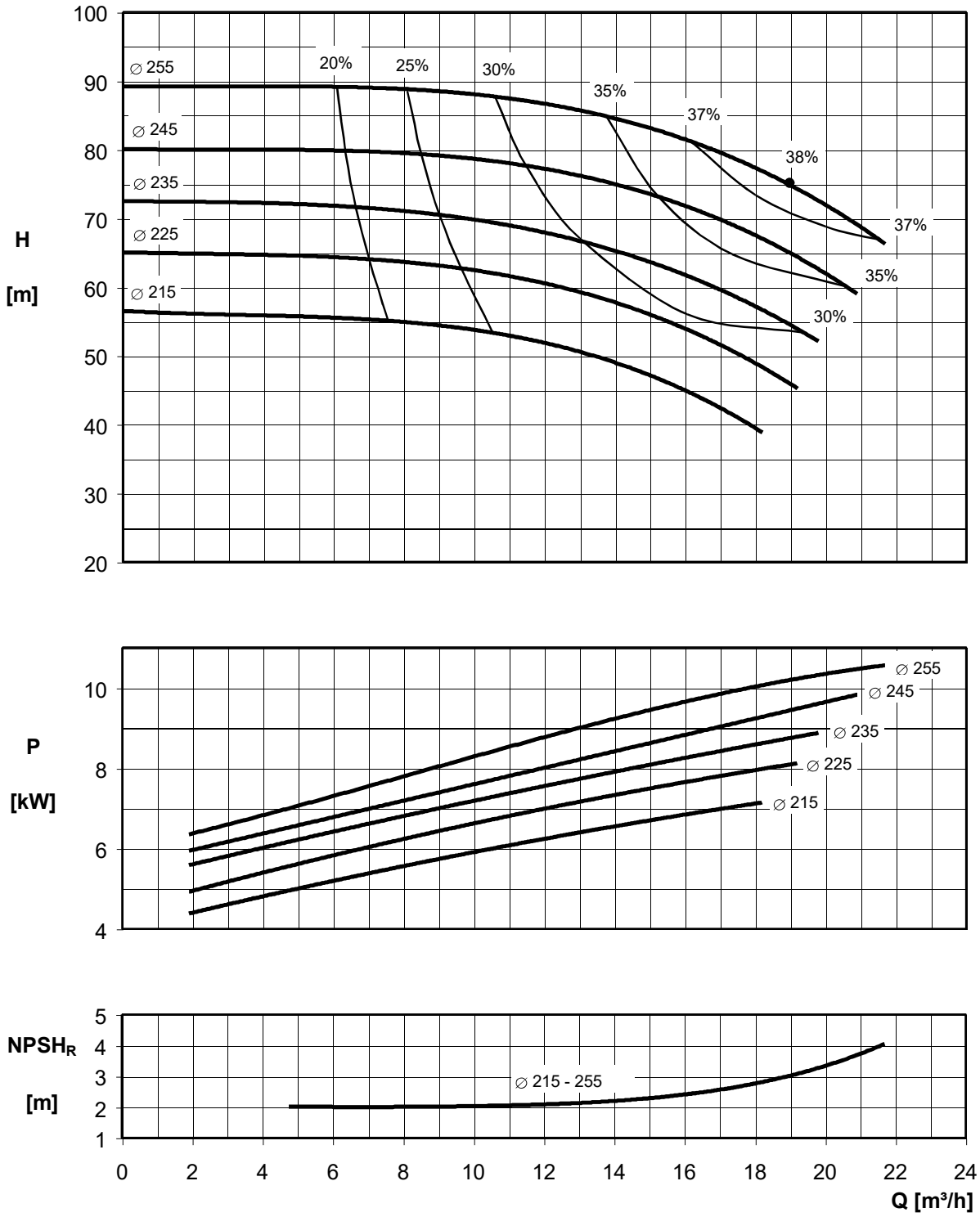


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 032250				Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

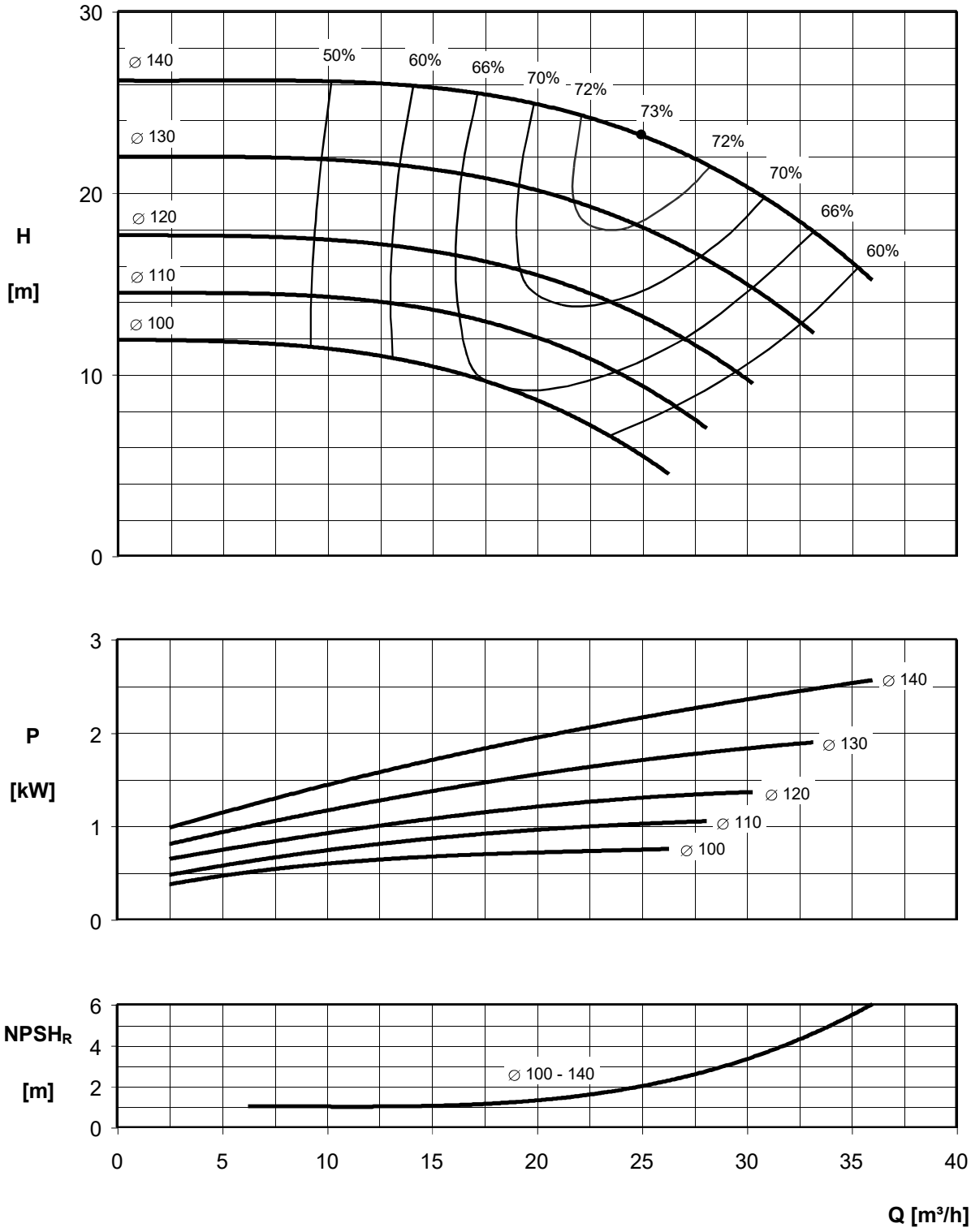


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI SuperNova 040125				Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

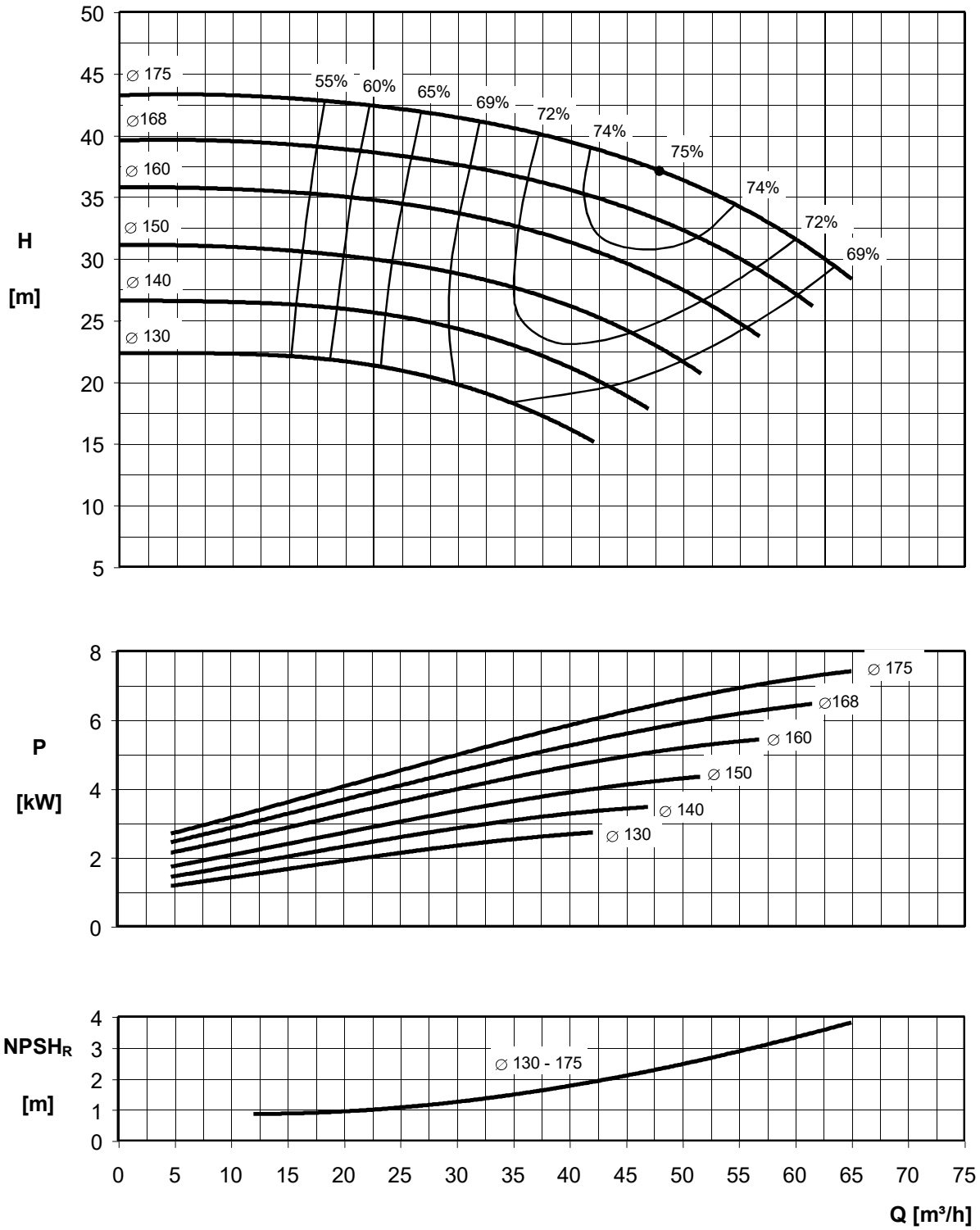


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 040160						Nenndrehzahl / *nominal speed* 2900 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**							

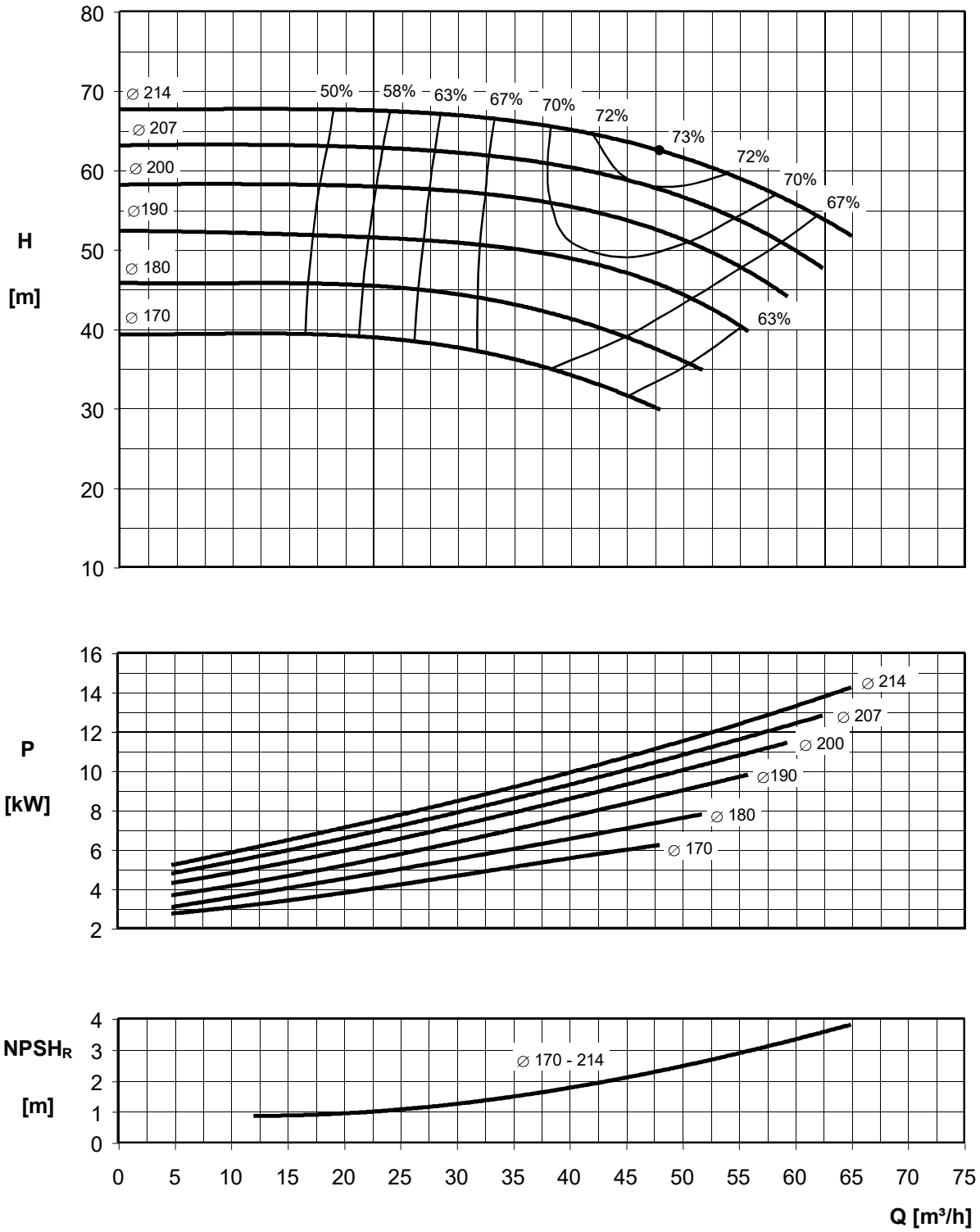


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 040200					Nenndrehzahl / *nominal speed* 2900 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

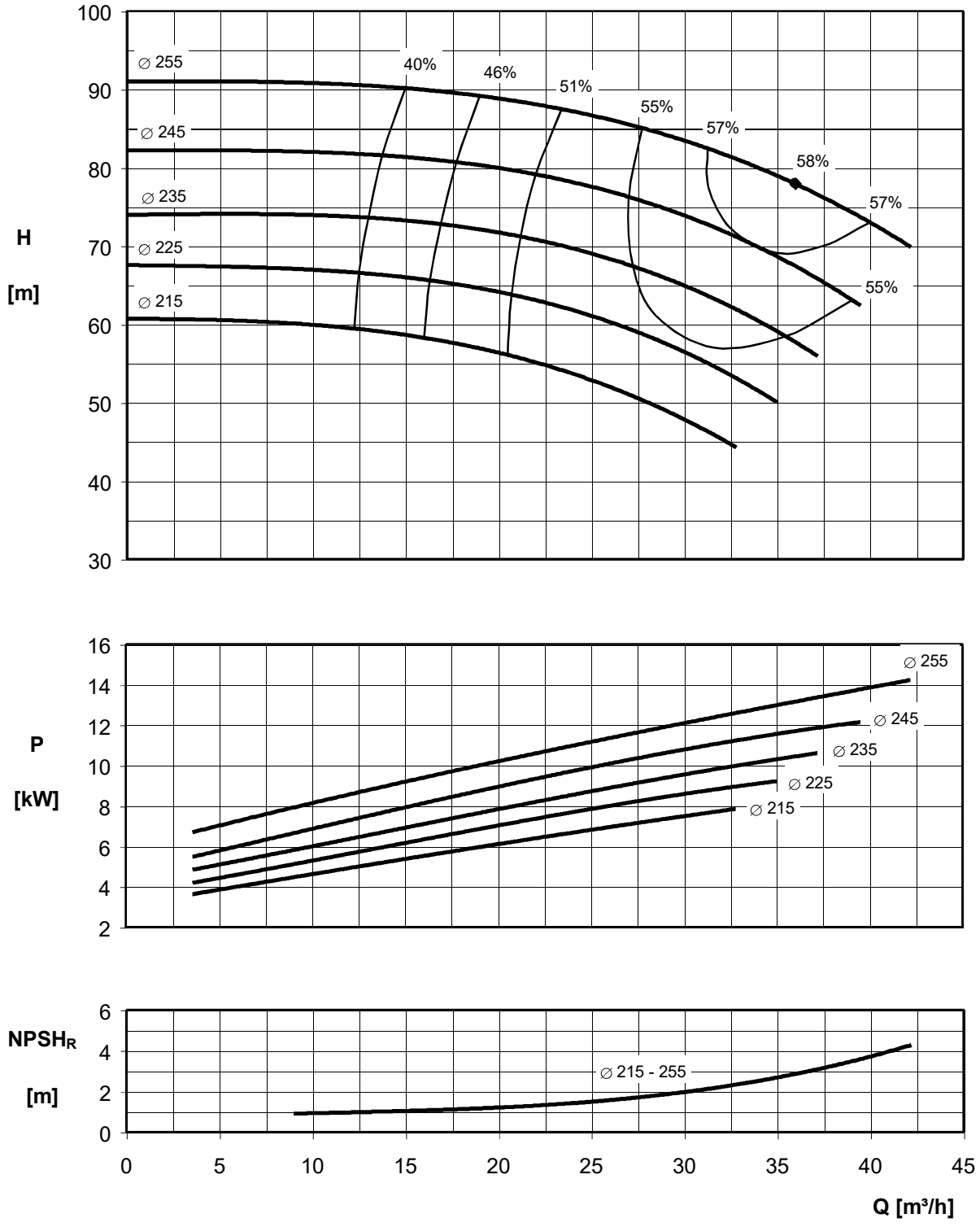


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 040250				Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

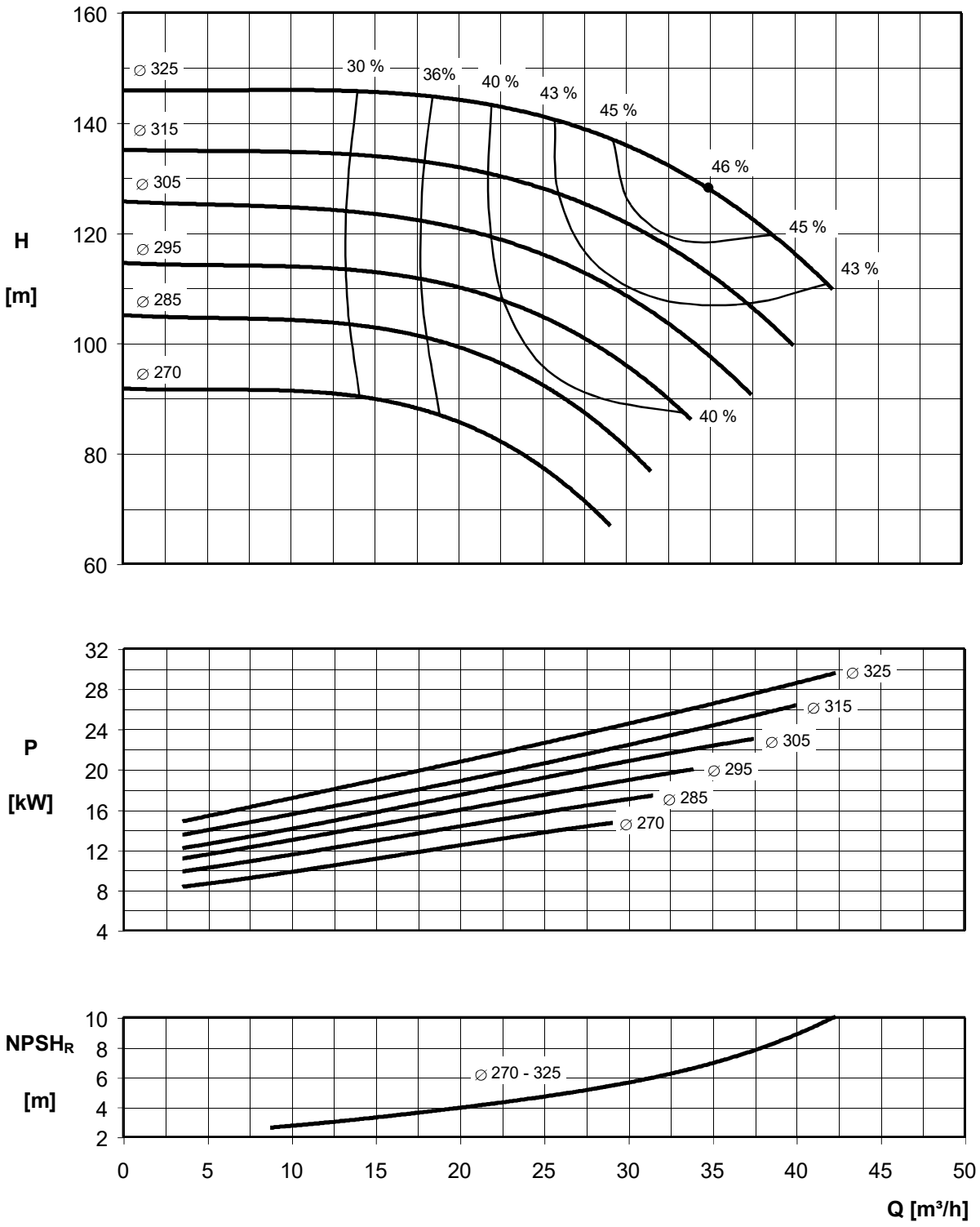


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 040315					Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**										

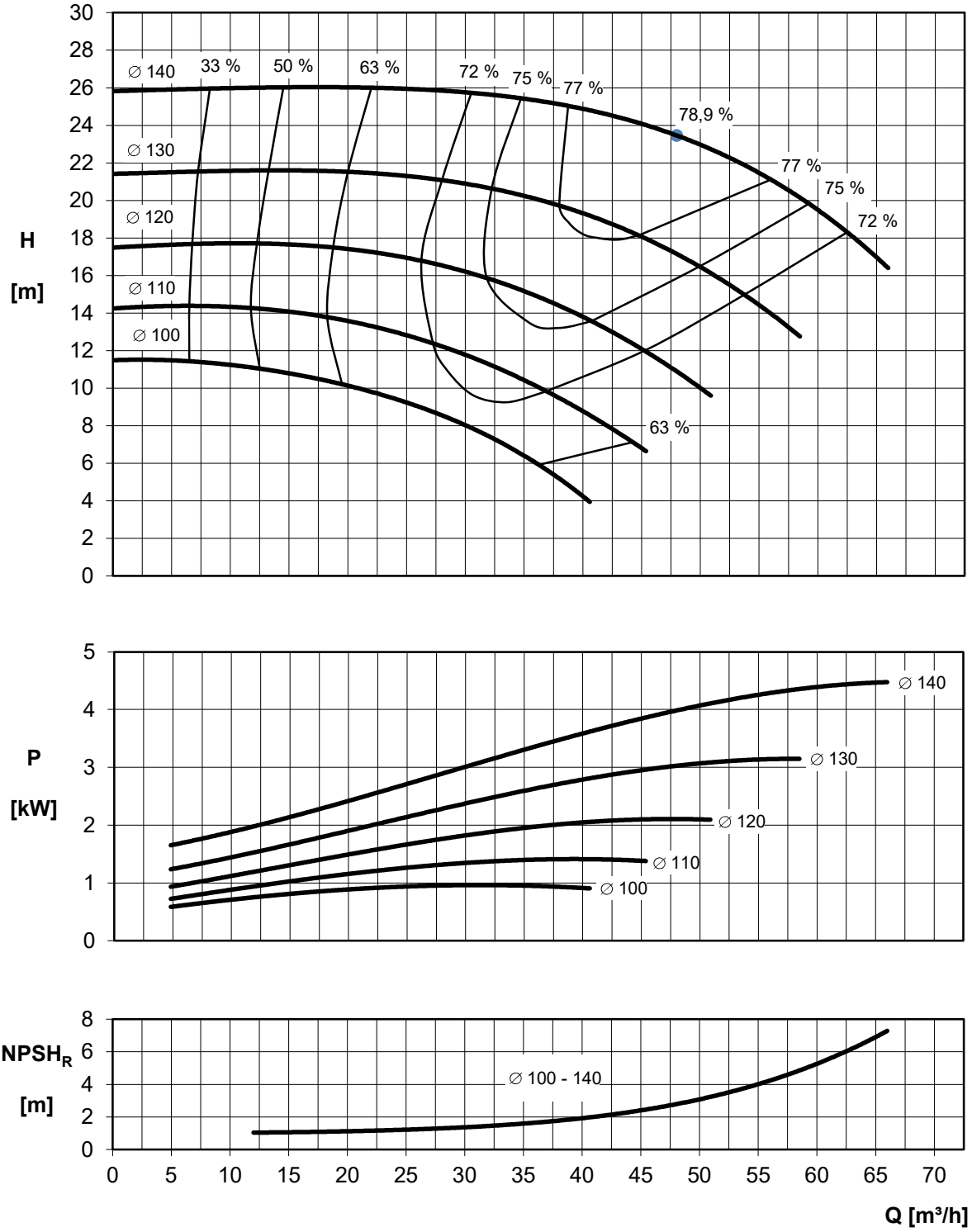


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 050125				Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

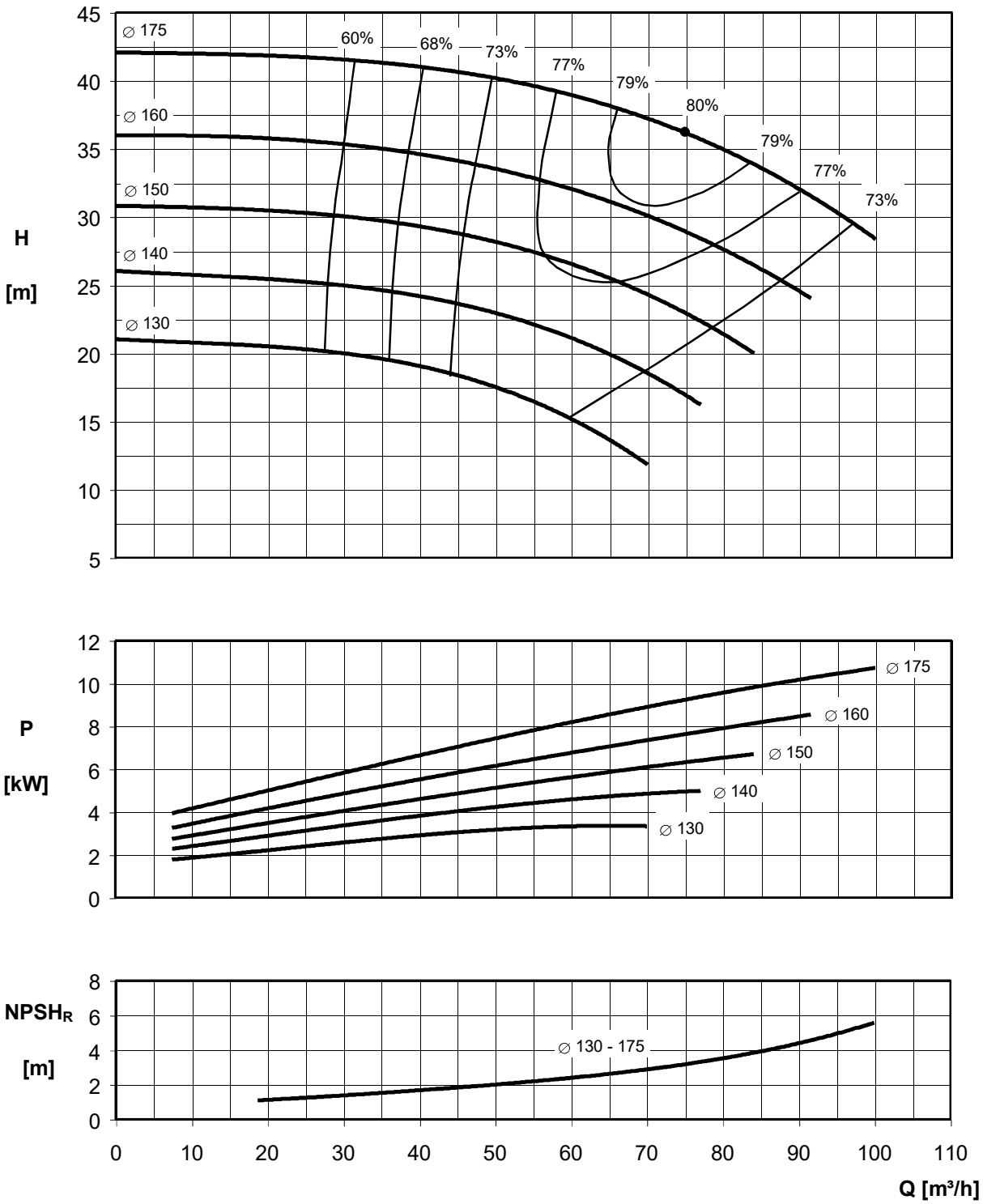


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 050160						Nenndrehzahl / *nominal speed* 2900 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**							

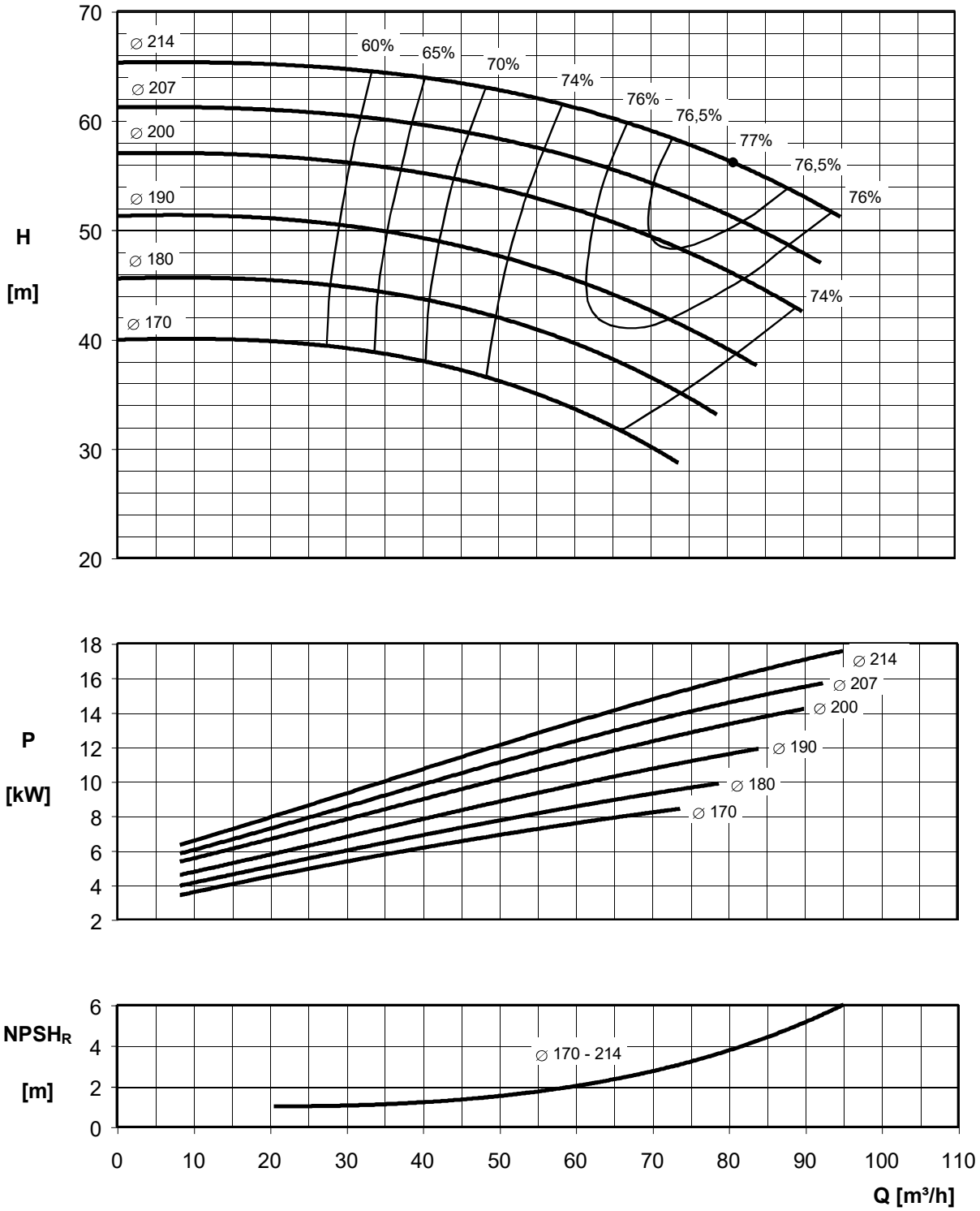


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI SuperNova 050200					Nenndrehzahl / *nominal speed* 2900 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

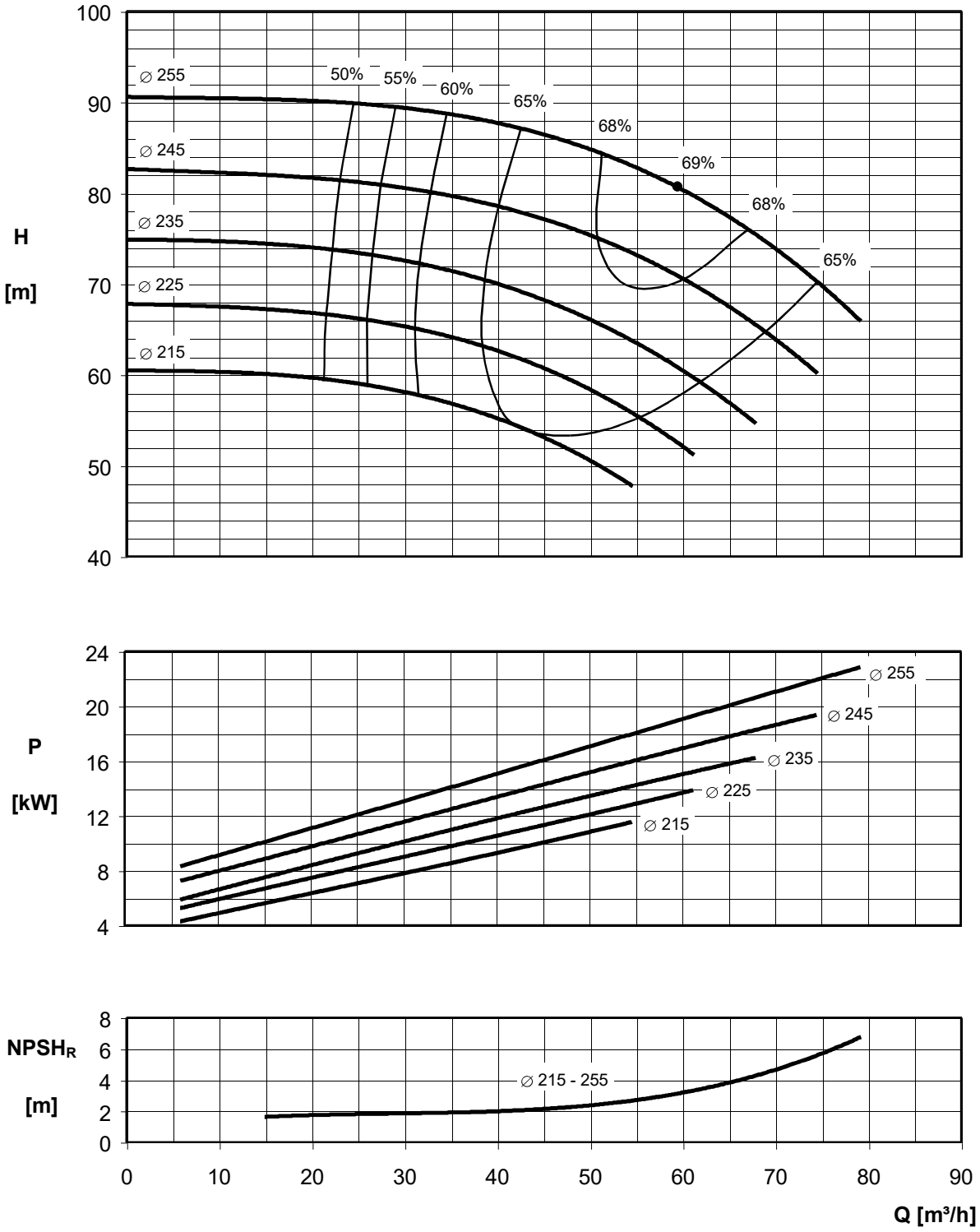


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 050250				Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

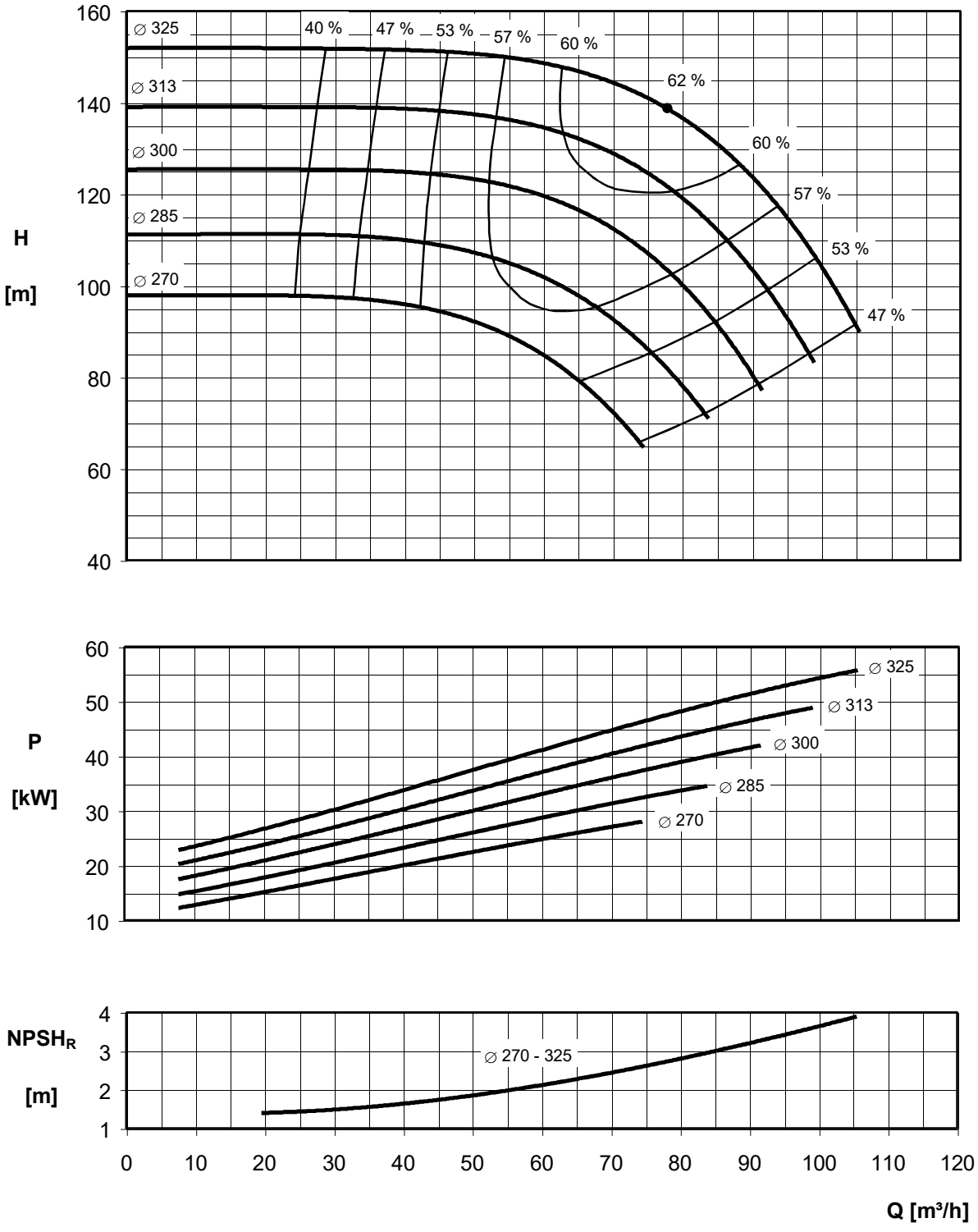


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 050315					Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**										

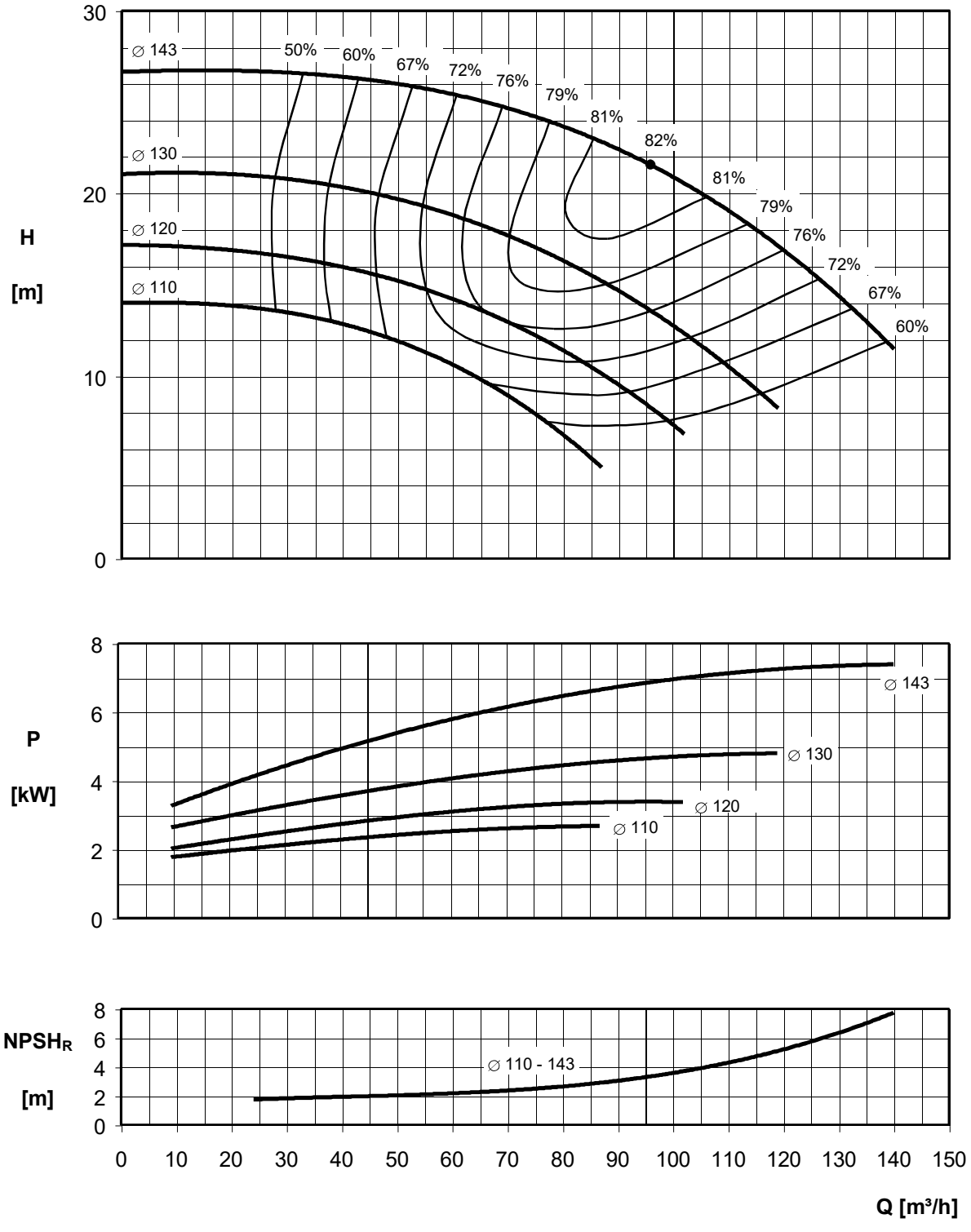


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 065125				Nenndrehzahl / *nominal speed* 2900 min^{-1}							FLOWSERVE SIHI Pumps
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**								



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

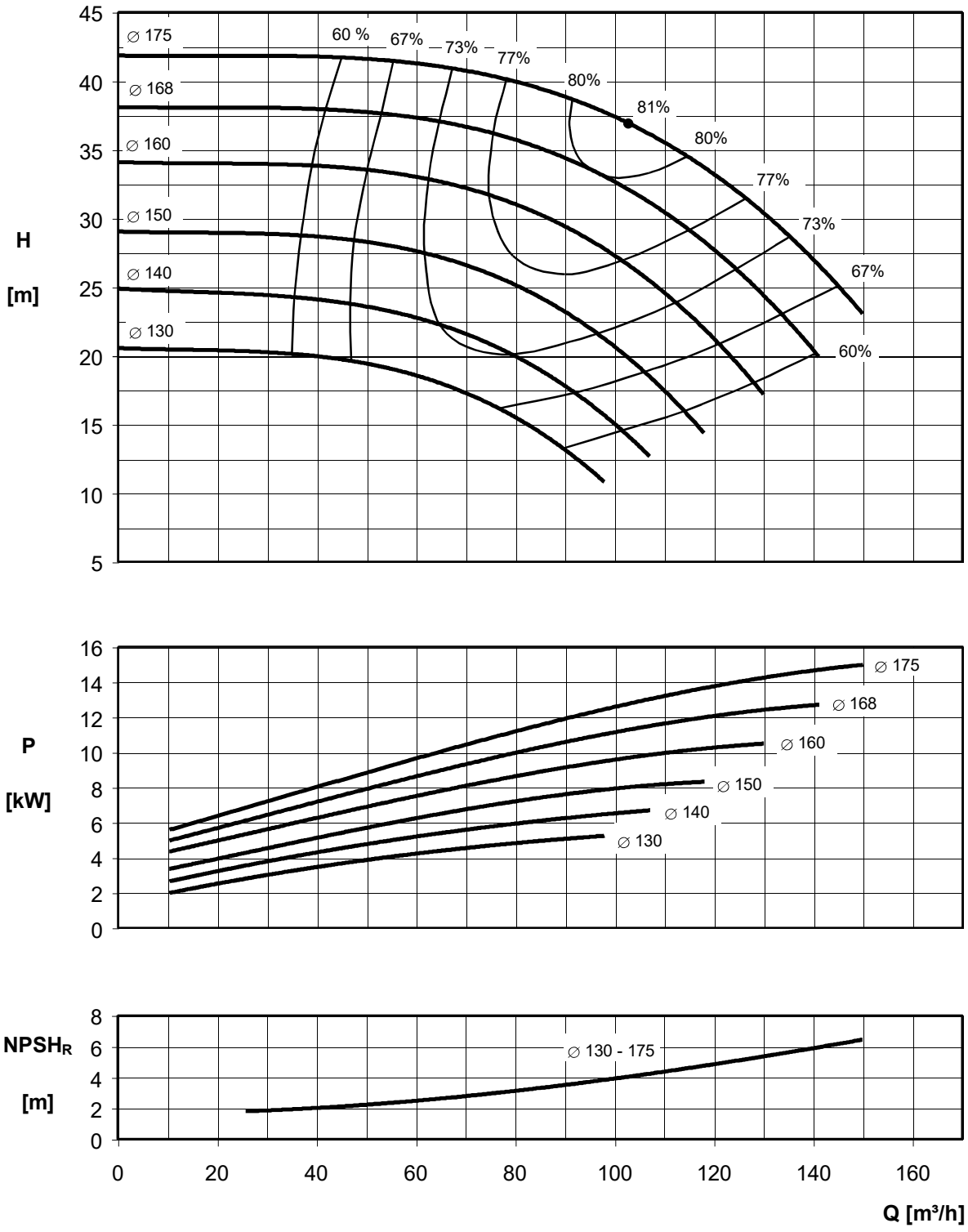
Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 065160											
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**							

Nenndrehzahl / *nominal speed*
2900 min^{-1}

FLOWSERVE SIHI® Pumps

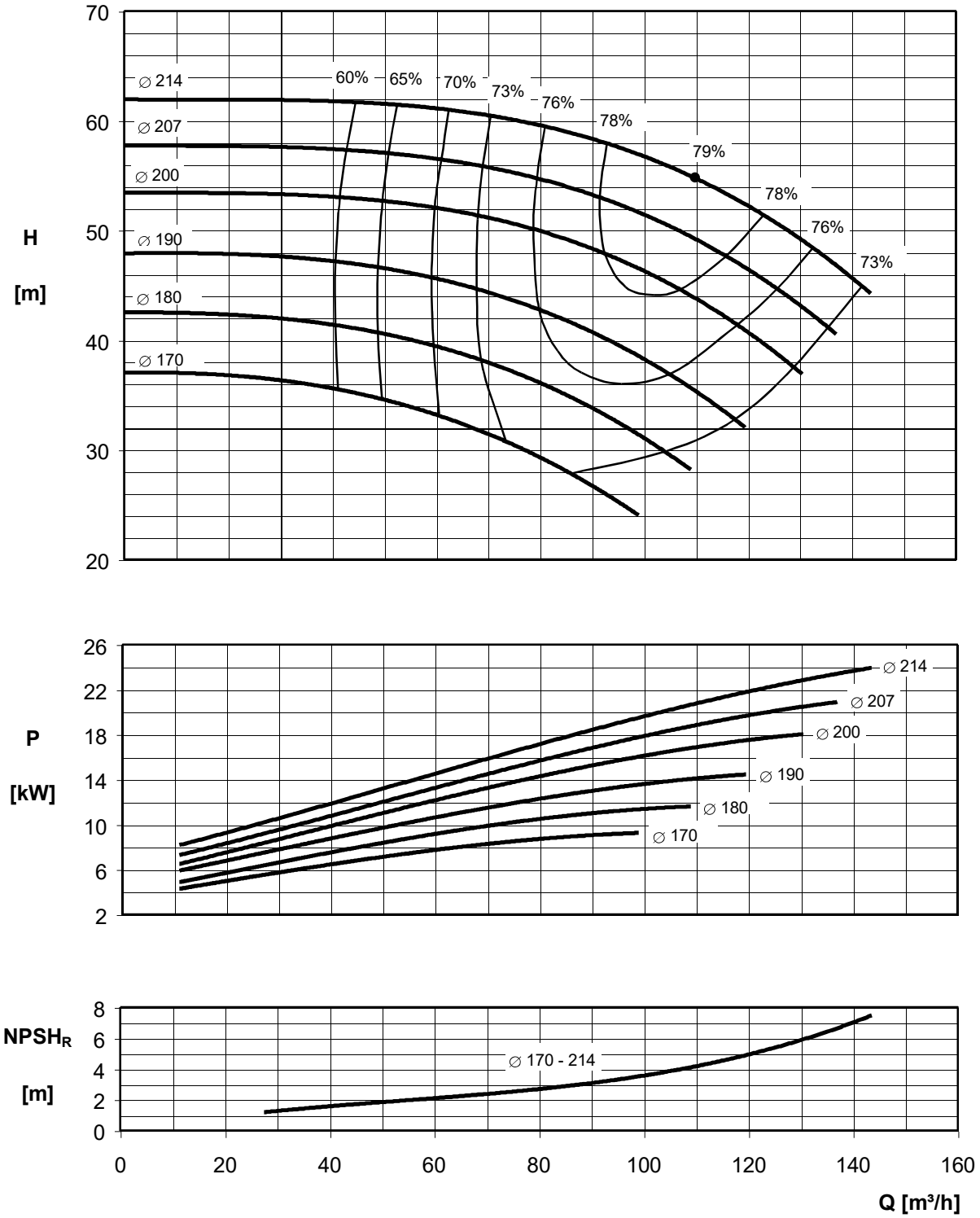


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 065200					Nenndrehzahl / *nominal speed* 2900 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

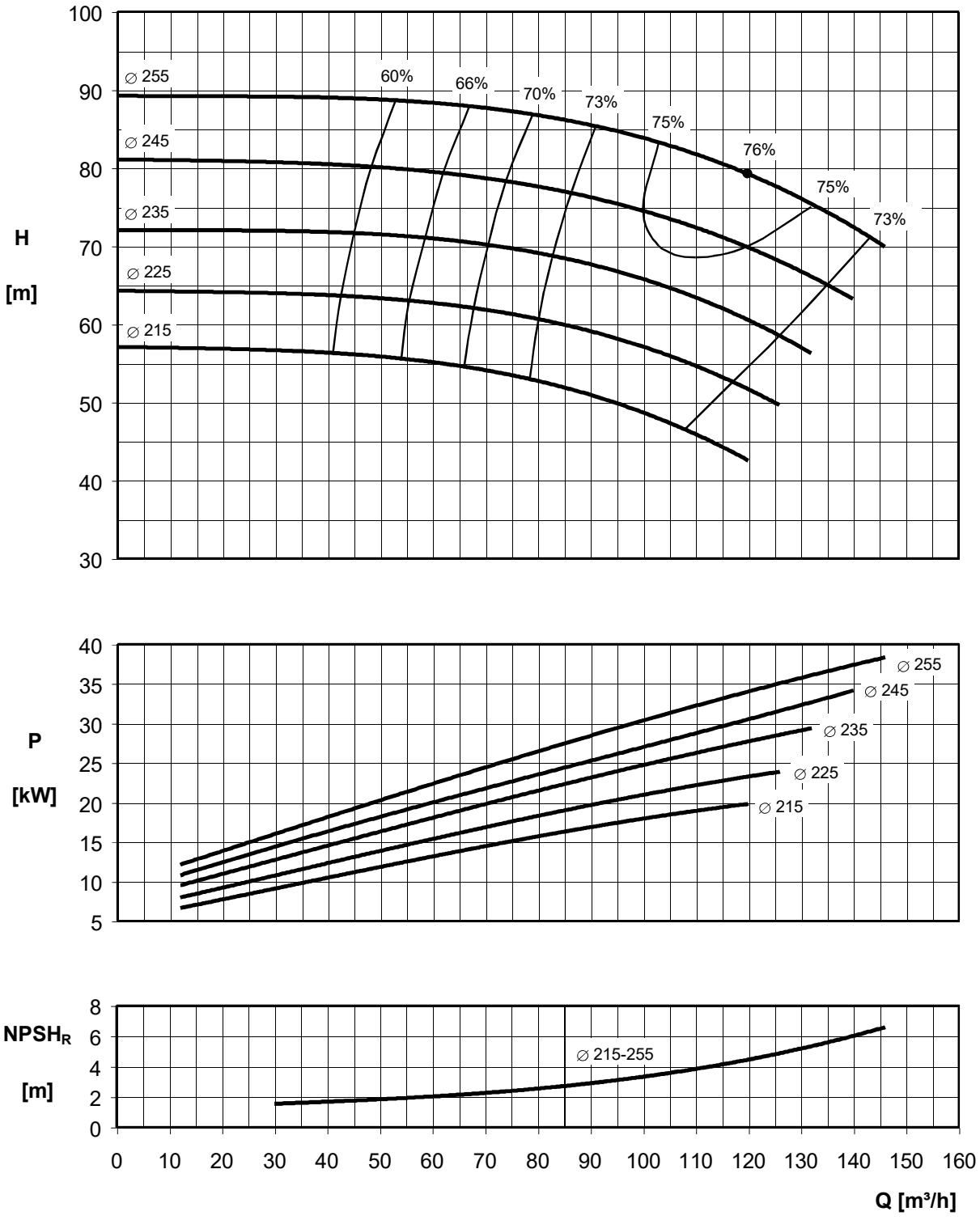


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 065250				Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

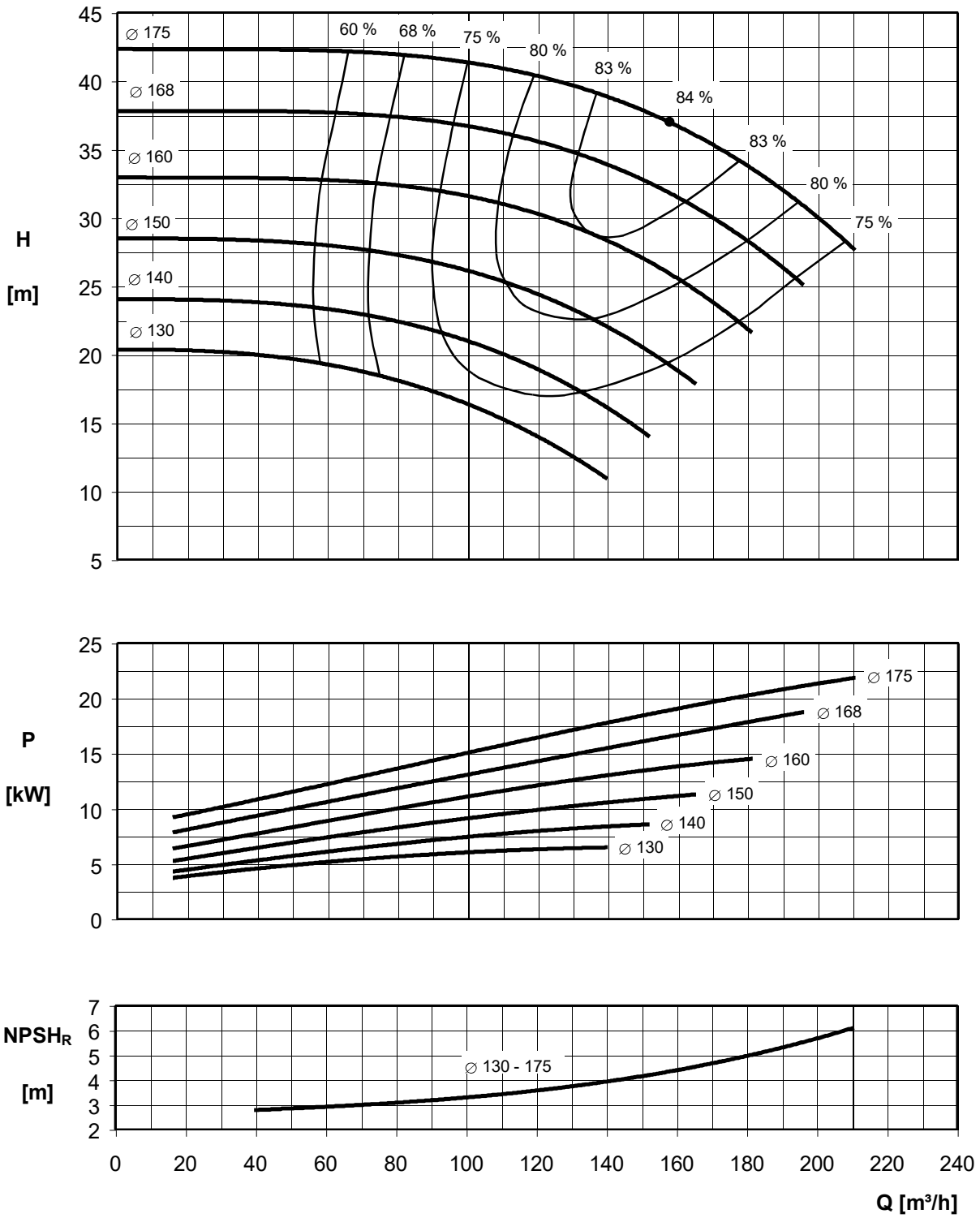


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 080160					Nenndrehzahl / *nominal speed* 2900 min^{-1}					
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**	**ZTKD**						

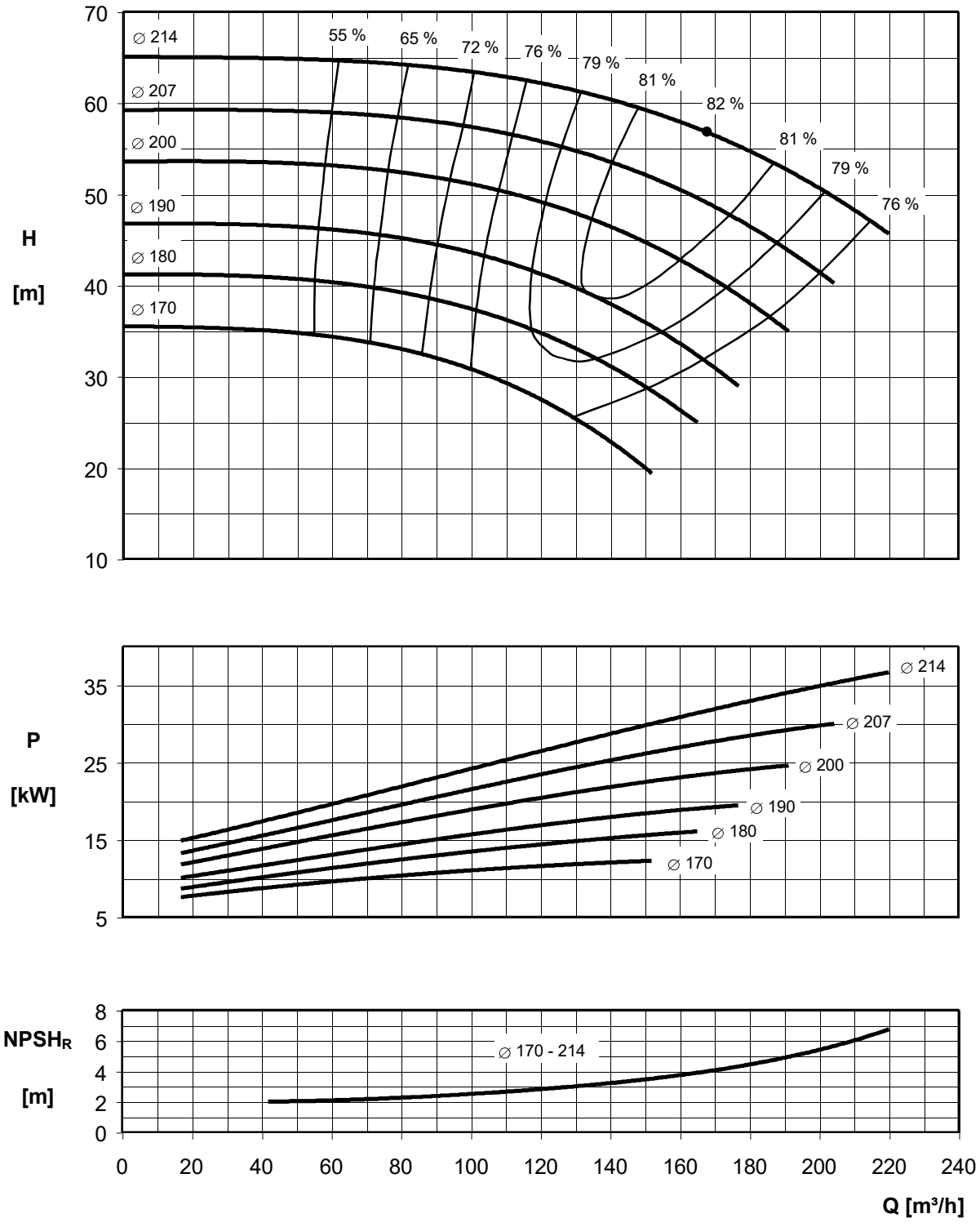


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 080200				Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							

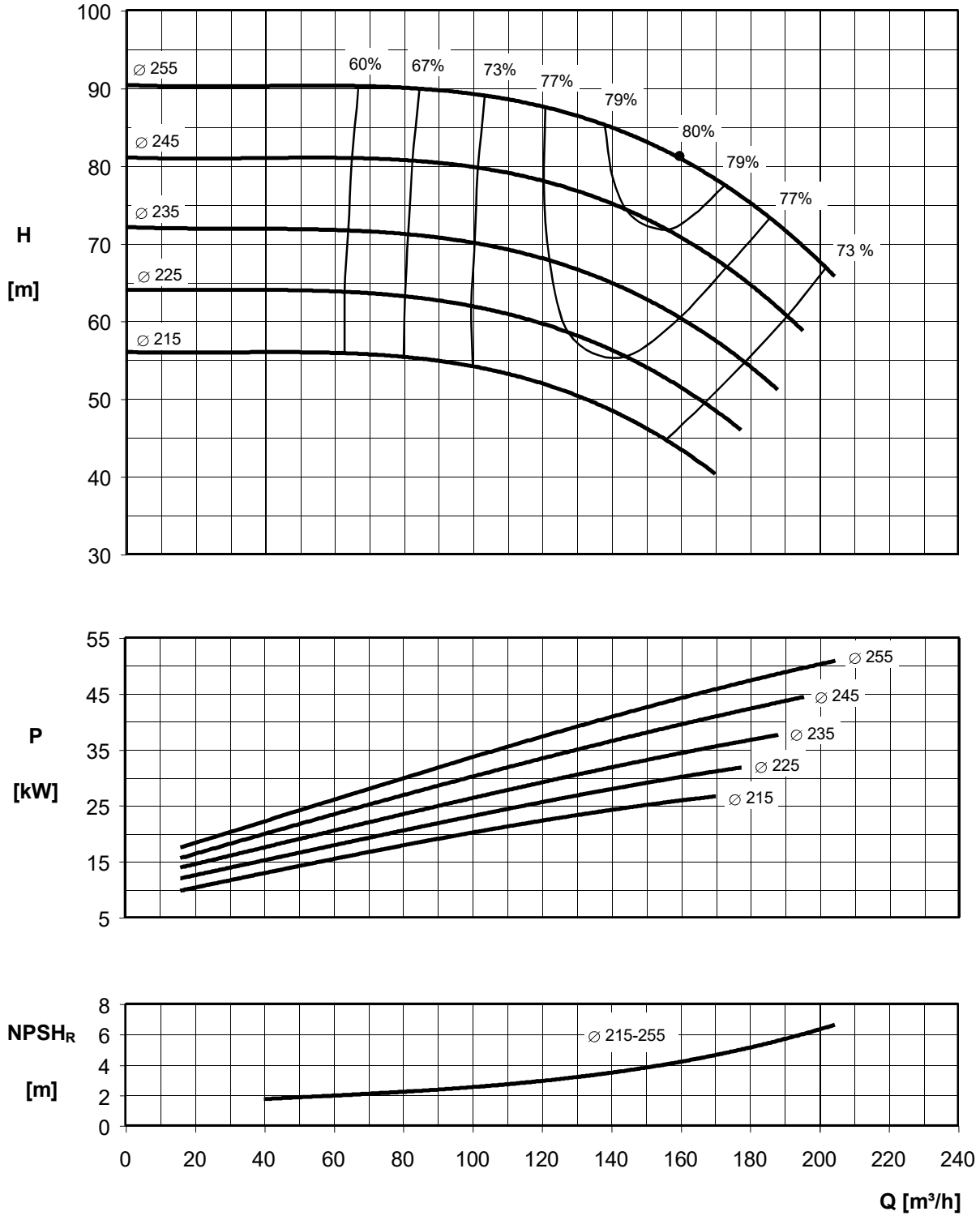


1 m³/h = 3,663 Imp g.p.m / 4,405 US g.p.m. 1 m = 3,28 ft

Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 080250			Nenndrehzahl / *nominal speed* 2900 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							



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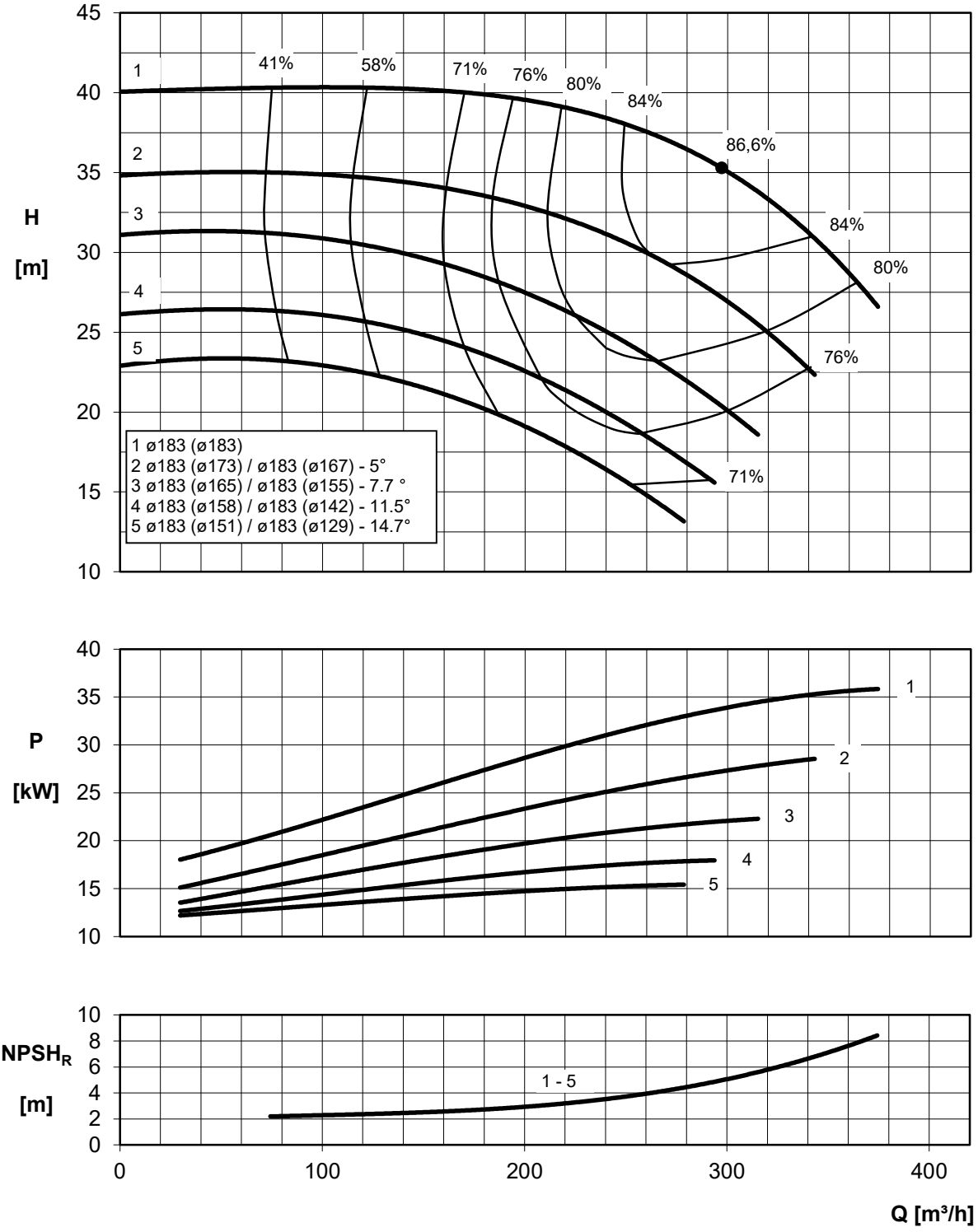
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 100160				Nenndrehzahl / *nominal speed* 2900 min^{-1}						
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**							



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Bitte beachten: gültig für: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s
Garantiewerte nach ISO 9906, Anhang A
NPSHR - garantierte NPSHR Werte erfordern einen Sicherheitszuschlag von mindestens 0,5 m
Leistungskennlinie berücksichtigt nicht Wirbelstromverluste bei Pumpen mit Magnetkupplung

Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
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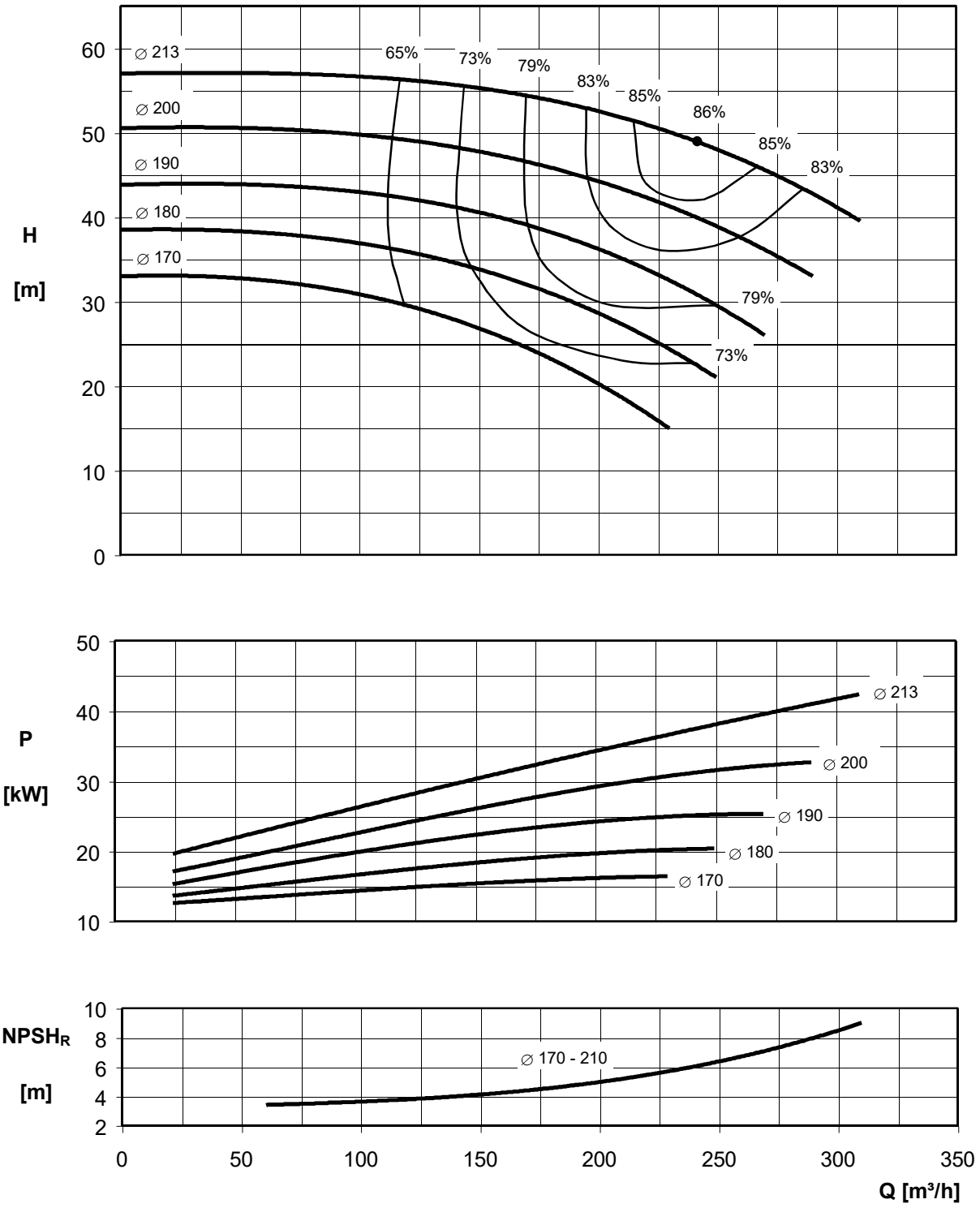
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 100200				Nenndrehzahl / *nominal speed* 2900 min^{-1}							FLOWSERVE SIHI Pumps
Baureihe / *series*	**ZLND**	**ZLKD**	**ZTND**								



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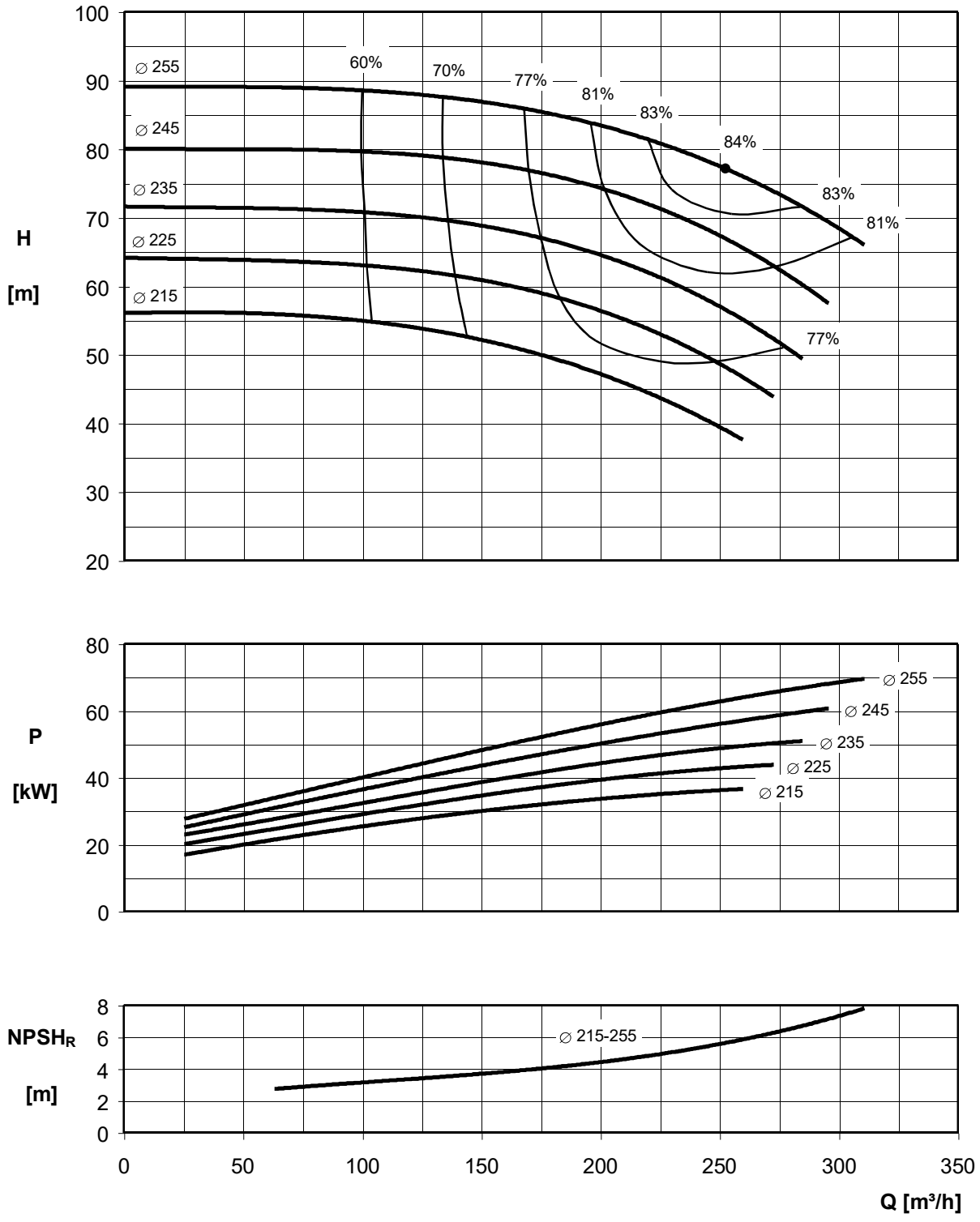
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 100250			Nenndrehzahl / *nominal speed* 2900 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							



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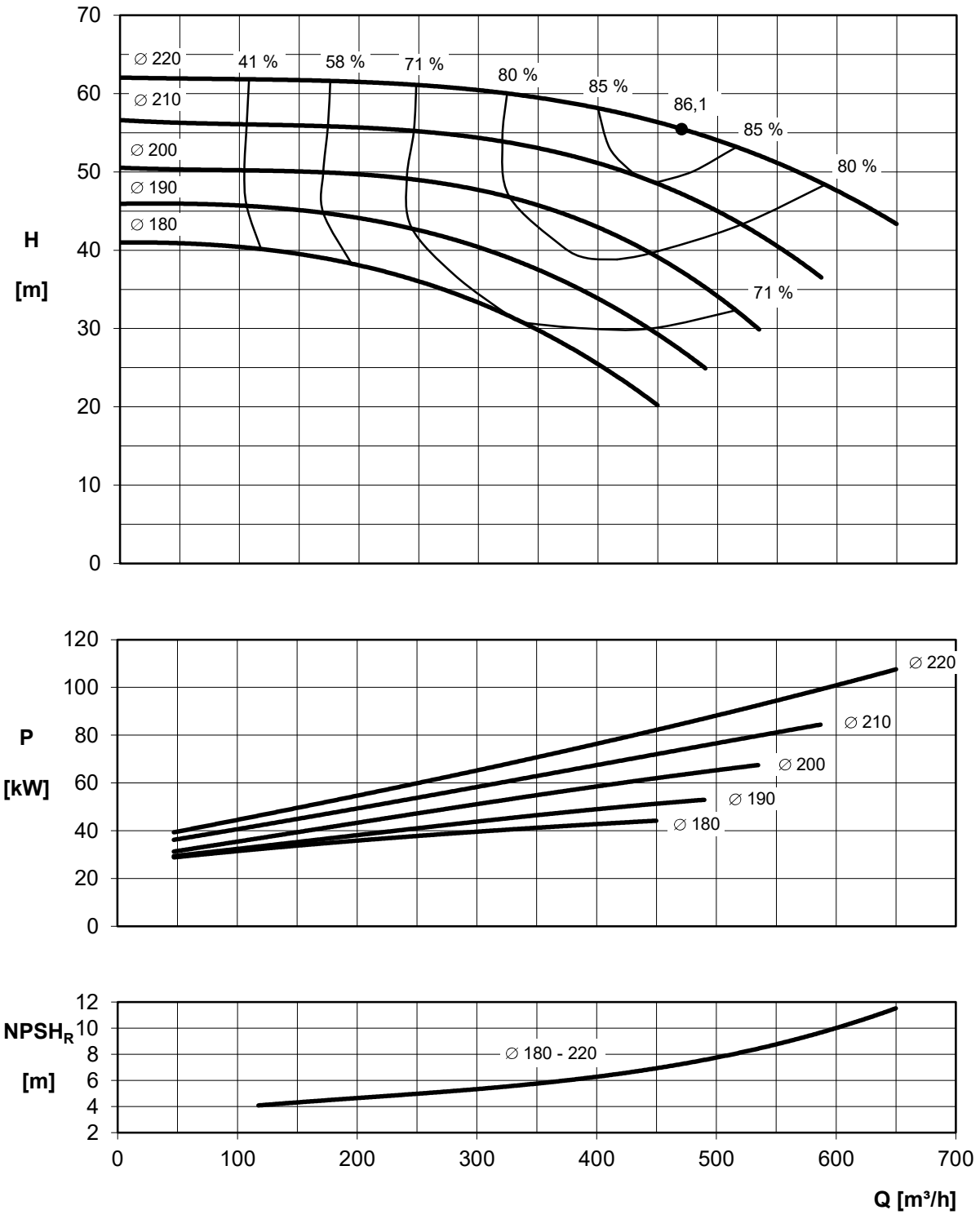
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

SIHI *SuperNova* 125200			Nenndrehzahl / *nominal speed* 2900 min^{-1}							
Baureihe / *series*	**ZLND**		**ZTND**							



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

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Please observe: *Valid for: ρ = 1 kg/dm³, $\nu \leq$ 20 mm²/s*
Guarantee values according to ISO 9906, Annex A
NPSHR - for guaranteed NPSHR values, add minimum 0,5 m safety margins on the values read from the curves
Power consumption does not include Eddy Current Losses for pumps with magnetic drive

Volute casing pumps

SIHI *SuperNova*

Type ZLND 32125 . . . 300500

FLOWSERVE
SIHI® Pumps

TECHNICAL DATA

Flow:	max. 1800 m³/h
Head:	max. 140 m
Speed:	max. 3600 rpm
Material:	cast iron (0B, 0C, 0E), spheroidal cast iron (1B) and stainless steel (4B)
Temperature:	max. 170 °C depending on the shaft sealing and material execution. (Hot water*) up to 140°C)
Casing Pressure:	material design 4B PN 16 0B, 0C, 0E, 1B PN 16 / 10[1] / 14[2]
Shaft sealing:	mechanical seal or stuffing box
Flange connections:	material design 4B DIN 2501 PN 16 0B, 0C, 0E, 1B DIN 2501 PN 16
Direction of rotation:	clockwise when looking at the pump from the drive end.

APPLICATION

Volute casing pumps of the ZLN range (meeting DIN 24255 / EN 733 and ISO 9908) are used when clear or turbid liquids free from solid particles are to be pumped. Application areas for pumps in this range include:

- Automobile, mechanical and general engineering industries
- Food and beverage industry
- Pharmaceutical industry
- Paint industry
- Plastic and rubber industry
- Iron and non-ferrous metal industry
- Paper and pulp industry
- Textile industry
- Building and construction industry
- Heating and air conditioning
- Drainage
- Water supply
- Irrigation

A range of materials is available to meet the specific needs of customers. For applications not covered by this pump range we offer the ISOchem range.

DESIGN

Horizontal, single-stage volute casing pumps with connections and main dimensions to DIN 24255 / EN 733, plus 19 additional sizes. The design of the pump allows the complete drive unit to be withdrawn from the casing without disturbing the attached pipe work. If a spacer type coupling is used, it is also unnecessary to disconnect the motor.
The range covers 50 sizes with only 5 different bearing brackets.

CONSTRUCTION

Casing pressure:

Material 4B: max 16 bar from - 40 °C to +120 °C
max 14 bar from 120°C up to +170 °C
Material 0B, 0C, 0E, 1B: max 16/10[1]/14[2] bar from - 20 °C to +120 °C
max 14/9[4]/8[2] bar from 120 °C up to +170 °C

Max. casing pressure= inlet pressure + delivery head at zero flow
Please note: The relevant technical regulations and safety rules must be observed.

Flanges location:
Axial suction flange, discharge flange radially upwards.

Flanges:
Material design 4B: Complies with DIN 2543 PN 16
Material design 0B, 0C, 0E, 1B: DIN 2533 PN 16
Flanges drilled according to ANSI 150 can be supplied.

Bearings:
Bearing brackets 25, 35 and 45: Two ball bearings, lifetime greased (2Z), design code B, or oil lubrication, design code C.
Bearing brackets 55 and 65: One double row angular contact bearing on pump side, plus one ball bearing on drive side, grease lubricated S or oil lubricated T.

Shaft sealing (Stuffing box and single mechanical seal)

Code 041:	Self-sealed, uncooled packing rings
Code 052:	Uncooled packing rings, external sealing liquid
Code B27:	Unbalanced bellows mechanical seal, seal face materials WC/Carbon, elastomer EPDM
Code AF3:	Balanced mechanical seal, seal face materials SiC/Carbon, elastomer EPDM
Code BJ3:	Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer EPDM
Code C23:	Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer EPDM
Code AFS:	Balanced mechanical seal, seal face materials SiC/ SiC, elastomer FPM (Viton)
Code BJS:	Unbalanced bellows mechanical seal, seal face materials SiC/ SiC, elastomer FPM (Viton)
Code C2S:	Unbalanced bellows mechanical seal, seal face materials SiC/ SiC, elastomer FPM (Viton)
Code AFK:	Balanced mechanical seal, seal face materials SiC/carbon, elastomer FPM (Viton) double PTFE (Teflon) wrapped
Code AFJ:	Balanced mechanical seal, seal face materials SiC/carbon, elastomer FPM (Viton)
Code BJJ:	Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer FPM (Viton)
Code C2J:	Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer FPM (Viton)

Codes AX3, AXS, AXK: are equivalent to AF3, AFS, AFK plus quench
Codes AY3, AYS, AYK: are equivalent to AF3, AFS, AFK plus heating
Codes A93, A9S, A9K, A9J: are equivalent to AF3, AFS, AFK, AFJ plus external flushing

As an option, Code 051 (as 052, but with inlet and outlet) and other sealing execution can be supplied on request.

*) Water quality according to VdTÜV 1466; additional requirement: O_2 (oxygene) < 0,02 mg/l.

[1] From 200315 to 300-500
[2] 150-500
[4] From 80-400 to 300-500 except 150-500

Shaft sealing (double mechanical seal):
Code M1S: Double mechanical seal in tandem arrangement, seal face materials SiC / SiC, elastomer FPM (Viton). Type GNZ.
Code N1S: Double mechanical seal in tandem arrangement, seal face materials SiC / SiC, elastomer FPM (Viton). Type M7N.
Code NFS: Double mechanical seal in back to back arrangement, seal face materials SiC / SiC, elastomer FPM (Viton). Type M7N.

Material design:

Item	Component	Material					Construction				
		Mat. Nº	DIN denomination	ISO EN denomination	US Material		0B	0C	0E	1B	4B
					ASTM Standard	AISI					
10.20	Volute casing	EN-JL 1040 1.4408 EN-JL1025	GG-25 GX6CrNiMo18 10 GGG-40.3	EN-GJL 250 GX5CrNiMo19-11-2 EN-GJS-400-18-LT	A 278 Cl. 30 A 351 CF8M A 395	 316 	x	x	x	 x	 x
16.10	Casing cover	EN-JL 1040 1.4408 EN-JL1025	GG-25 GX6CrNiMo18 10 GGG-40.3	EN-GJL 250 GX5CrNiMo19-11-2 EN-GJS-400-18-LT	A 278 Cl. 30 A 351 CF8M A 395	 316 	x	x	x	 x	 x
21.00	Shaft	1.0503 1.4021 1.4401	C 45 X 20 Cr13 X5CrNiMo17 12 2	C 45 X 20 Cr13 X5CrNiMo17 12 2	A 576 Gr1045 A 276 Type 420 A 167 Gr316	1045 420 316	x(*) x x(**)	x(*) x 	x(*) x x(**)	 x 	 x
23.00	Impeller	EN-JL 1040 2.1050 1.4408	GG-25 G-CuSn10 GX6CrNiMo18 10	EN-GJL 250 GX5CrNiMo19-11-2	A 278 Cl. 30 B 427 C91600 A 351 CF8M	 316	x 	 x 	 x	x 	 x
33.00	Bearing bracket	EN-JL 1040	GG-25	EN-GJL 250	A 278 Cl. 30		x	x	x	x	x
52.30	Shaft sleeve / Mechanical seal	1.4021	X 20 Cr13	X 20 Cr13	A 276 Type 420	420	x	x	x		
52.40	Shaft sleeve / Stuffing box	1.4021 1.4401	X 20 Cr13 X5CrNiMo17 12 2	X 20 Cr13 X5CrNiMo17 12 2	A 276 Type 420 A 167 Gr316	420 316	x	x	x		 x
46.10	Shaft seal / Stuffing box	Soft packing					x	x	x		
43.30	Mechanical seal	Silicon Carbide / Carbon EPDM or Viton (See other options)					x	x	x	x	x
43.31	Mechanical seal	Silicon Carbide / Carbon EPDM or Viton (See other options)					x		x		x
43.32	Mechanical seal	Silicon Carbide / Carbon EPDM or Viton (See other options)					x		x		x

(*) Only in bearing brackets 55 and 65.
(**) For shaft sealing double mechanical seal

Casing gasket:

The casing is sealed by means of a confined flat gasket of EWP 210 material. Code of this design: 2
The casing is sealed by means of a confined flat gasket of PTFE. Code of this design: 4

Motor Power:
Using commercial electric motors, type of construction IM B3.
To determine the drive power we recommend the following safety margin:
Up to 4 kW: 25% 4 to 7,5 kW: 20% above 7,5 kW: 15%
The following speeds must not be exceeded:

Size	max. speed rpm	Size	max. speed rpm	Size	max. speed rpm	Size	max. speed rpm
32125 32160 32200 40125 40160 40200 50125 50160 50200 65125 65160 65200[1)] 80160[1)] 80200 100160 100200	3600	32250 40250 50250 65250 80250 100250[2)] 125200[2)]	3000	40315[3)] 50315[3)] 65315 80315 80400 100315 100400 125250 125315 125400 150200 150250[4)] 150315 150400 200250	1800	150500 200315 200400 200500 250300 250315 250400 250500 300400 300500	1500

[1)] In material design 4B max. speed 3000 rpm
[2)] In material design 4B max. speed 1800 rpm
[3)] In material design 0E, and 4B max. speed 3000 rpm
[4)] In material design 4B max. speed 1500 rpm
The max. speeds are derived from the permissible shaft loads and the permissible peripheral speeds of the impellers

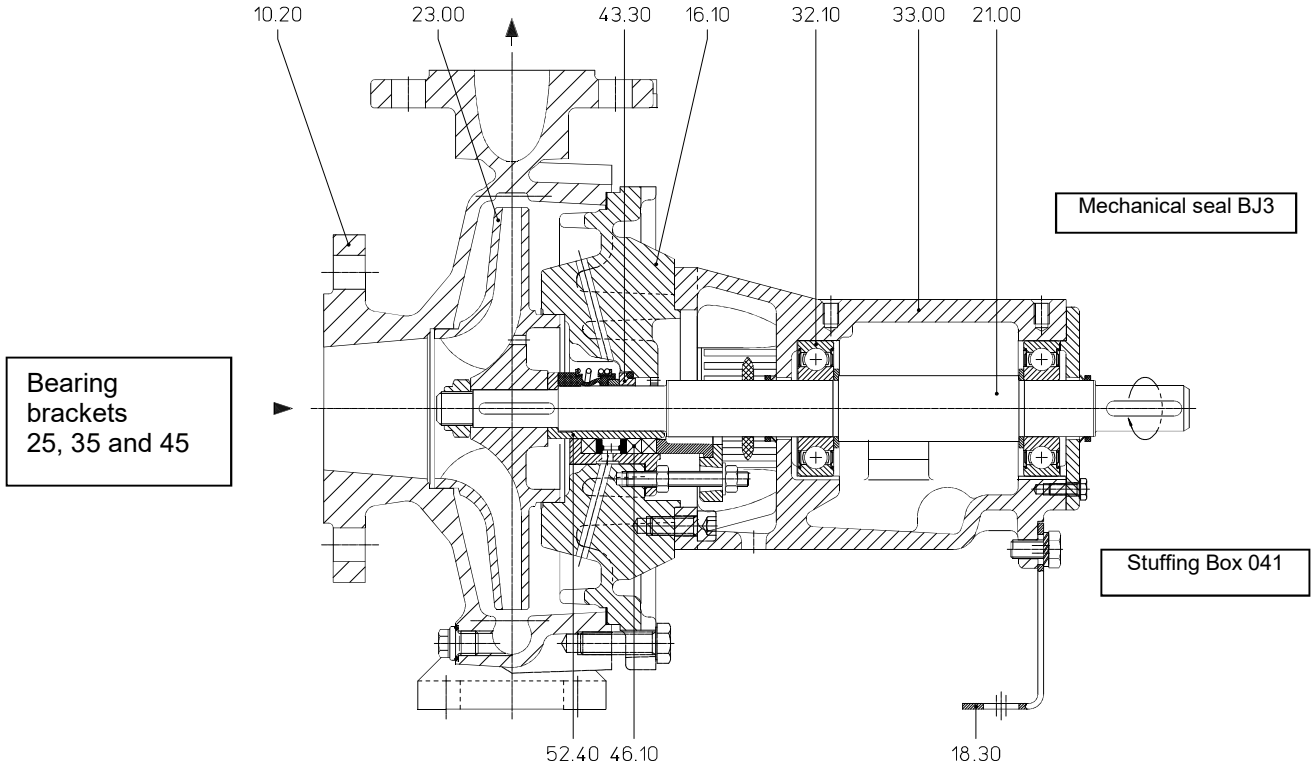
Bearing bracket / pump size:

Bracket 25	32125 32160 32200 32250 40125 40160 40200 40250 50125 50160 50200 50250 65125 65160 65200 80160
Bracket 35	40315 50315 65250 65315 80200 80250 80315 100160 100200 100250 100315 125200 125250 150200 150250
Bracket 45	80400 100400 125315 125400 150315 150400 200250
Bracket 55	150500 200315 200400 200500 250300 250315
Bracket 65	250400 250500 300400 300500

General comments:
For horizontal volute pumps in CLOSE COUPLED construction with STANDARD motor for nominal performances and flange connections as per EN 733 refer to our series **ZLK**.
For INLINE pumps with the same drive unit, consisting of bearing bracket with bearing, stub shaft and mechanical seal, casing cover, impeller and impeller nut, refer to our series **ZLI** (supplied also with magnetic drive).
For equipping hot media systems a complete programme is available for a flow range between 1-1000 m^3/h consisting of the range:

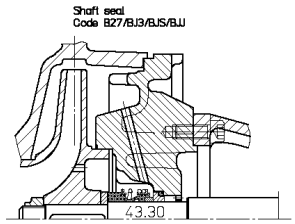
ZTN volute pumps to EN 733 design with base plate, t_{max} 350 °C PN 16. Heat transfer oil.
ZTK volute pumps to EN 733 close coupled design, t_{max} 350 °C PN 16. Heat transfer oil.
ZTI volute pumps to EN 733 as INLINE construction, t_{max} 350^0 C PN 16. Heat transfer oil.
ZEN volute pumps to EN 22858, t_{max} 230 °C PN 40. Hot water design.
ZDN volute pumps to EN 22858, t_{max} 185 °C PN 25. Hot water design.
ZHN volute pumps to EN 733, t_{max} 180 °C PN 16. Hot water design.
ZLI volute pumps to EN 733 as INLINE construction, t_{max} 150 °C PN 25. Hot water design.

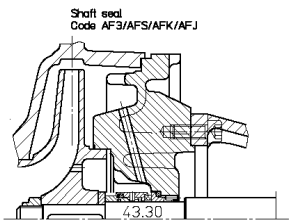
SECTIONAL DRAWING AND NOMENCLATURE

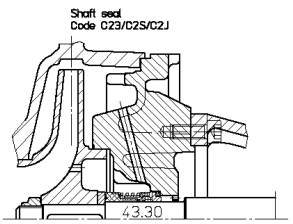


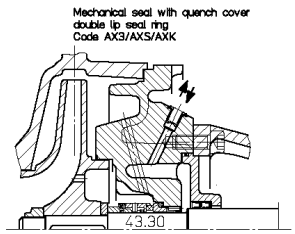
10.20	volute casing	23.00	impeller	43.30	mechanical seal
16.10	casing cover	32.10	ball bearing	46.10	stuffing box
18.30	support foot	33.00	bearing bracket	52.40	shaft sleeve (stuffing box)
21.00	shaft				

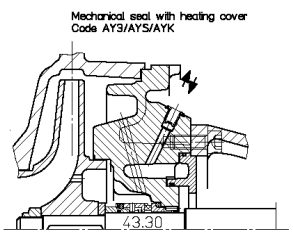
Shafts seals

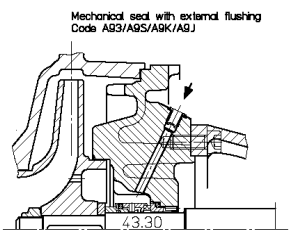


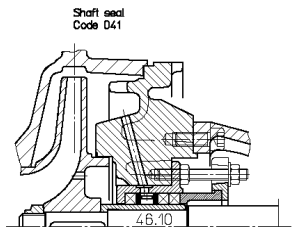


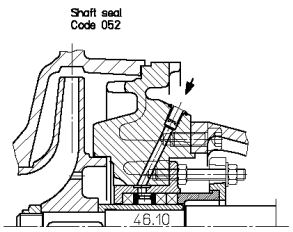


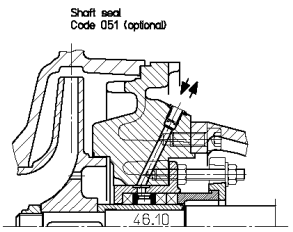


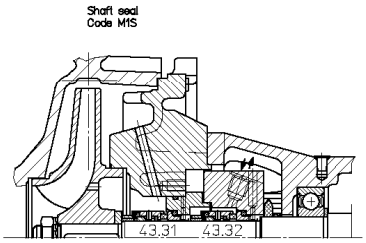


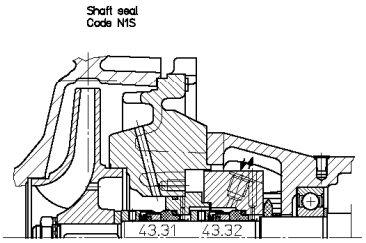


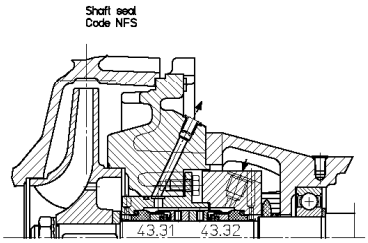




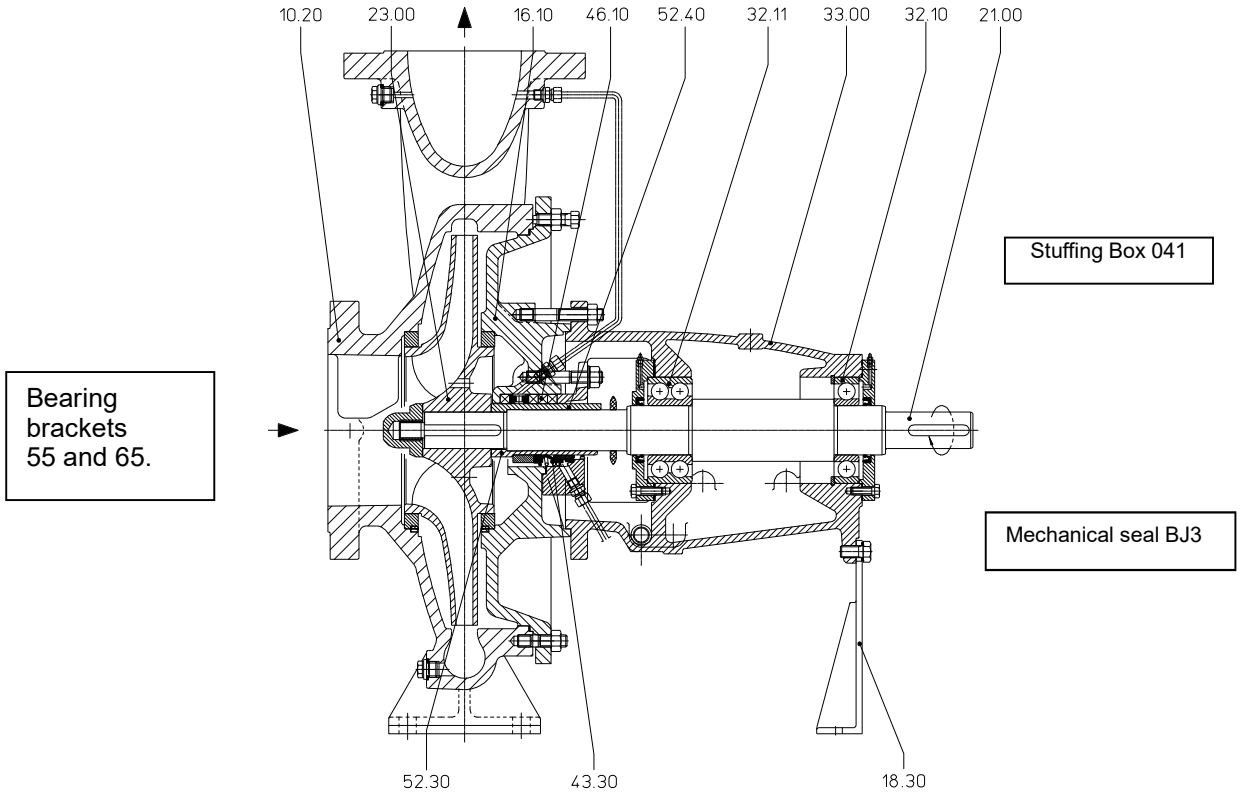








SECTIONAL DRAWING AND NOMENCLATURE



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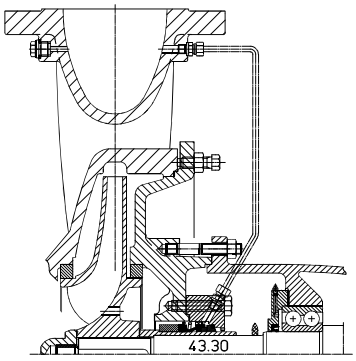
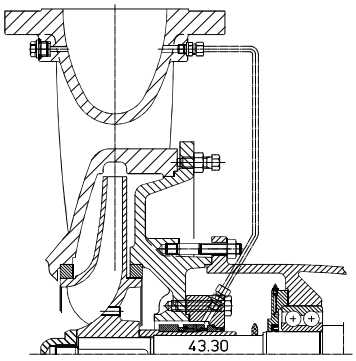
16.10	casing cover	32.10	ball bearing	46.10	stuffing box
18.30	support foot	32.11	ball bearing	52.30	shaft sleeve (mechanical seal)
21.00	shaft	33.00	bearing bracket	52.40	shaft sleeve (stuffing box)

Shaft seals

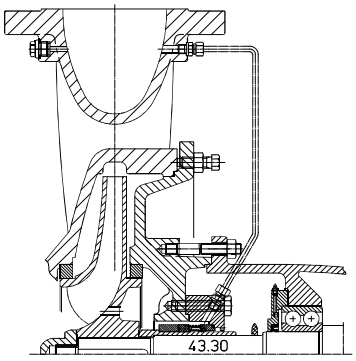
Shaft Seal
Code BJ3/BJS/BJJ



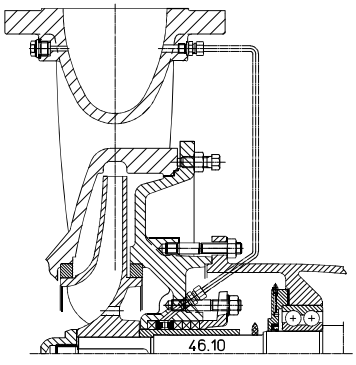
Shaft Seal
Code AF3/AFS/AFK



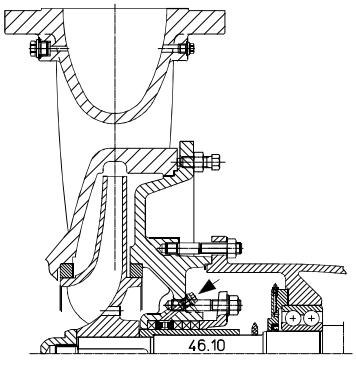
Shaft Seal
Code C23/C2S/C2J



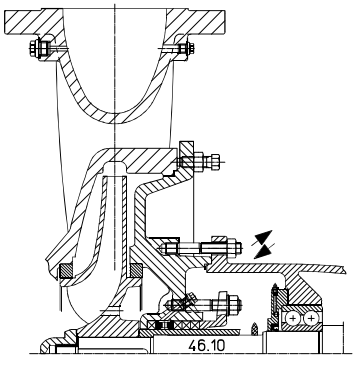
Shaft Seal
Code 041



Shaft Seal
Code 052

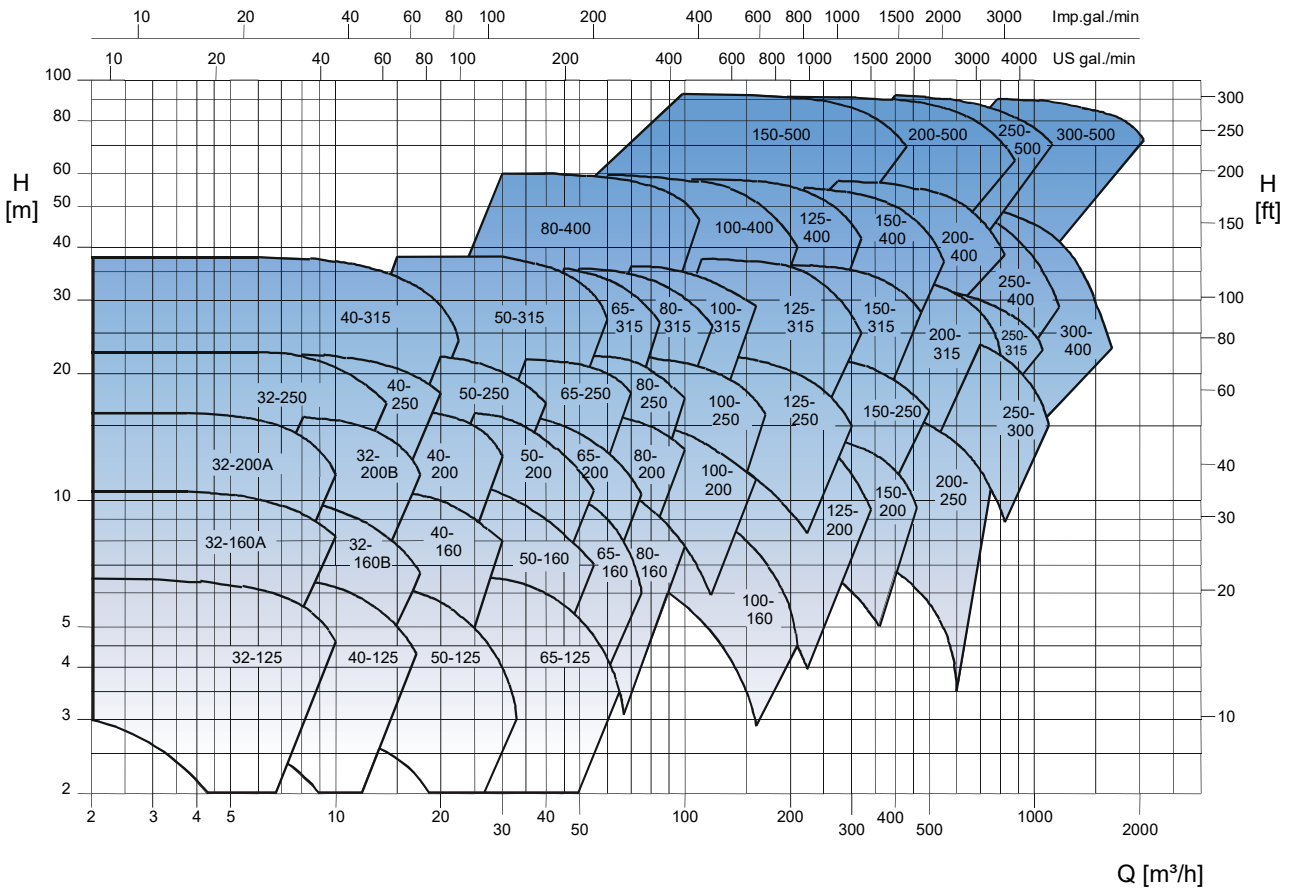


Shaft Seal
Code 051 (optional)

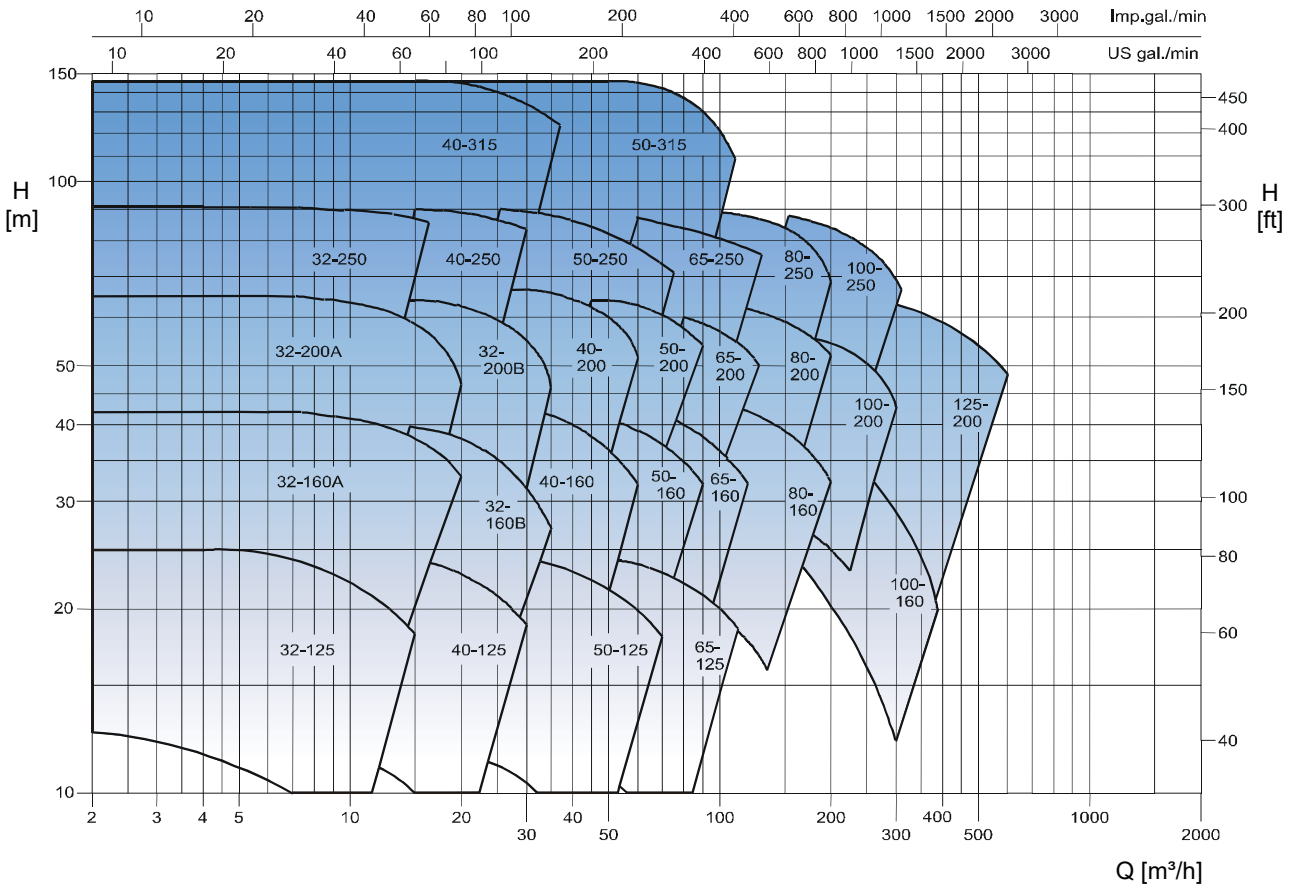


Performance Graph 50 Hz

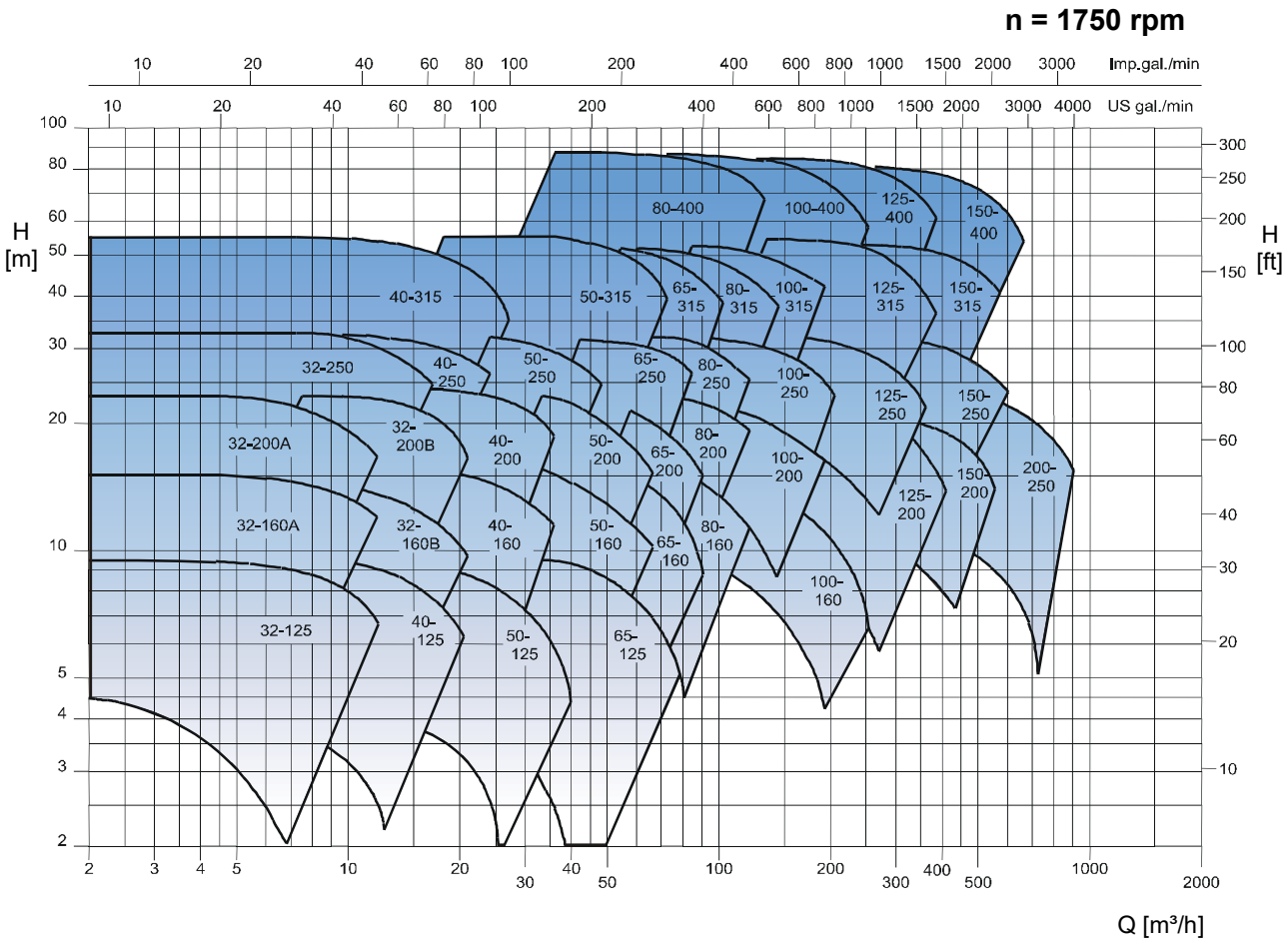
n = 1450 rpm



n = 2900 rpm



Performance Graph 60 Hz



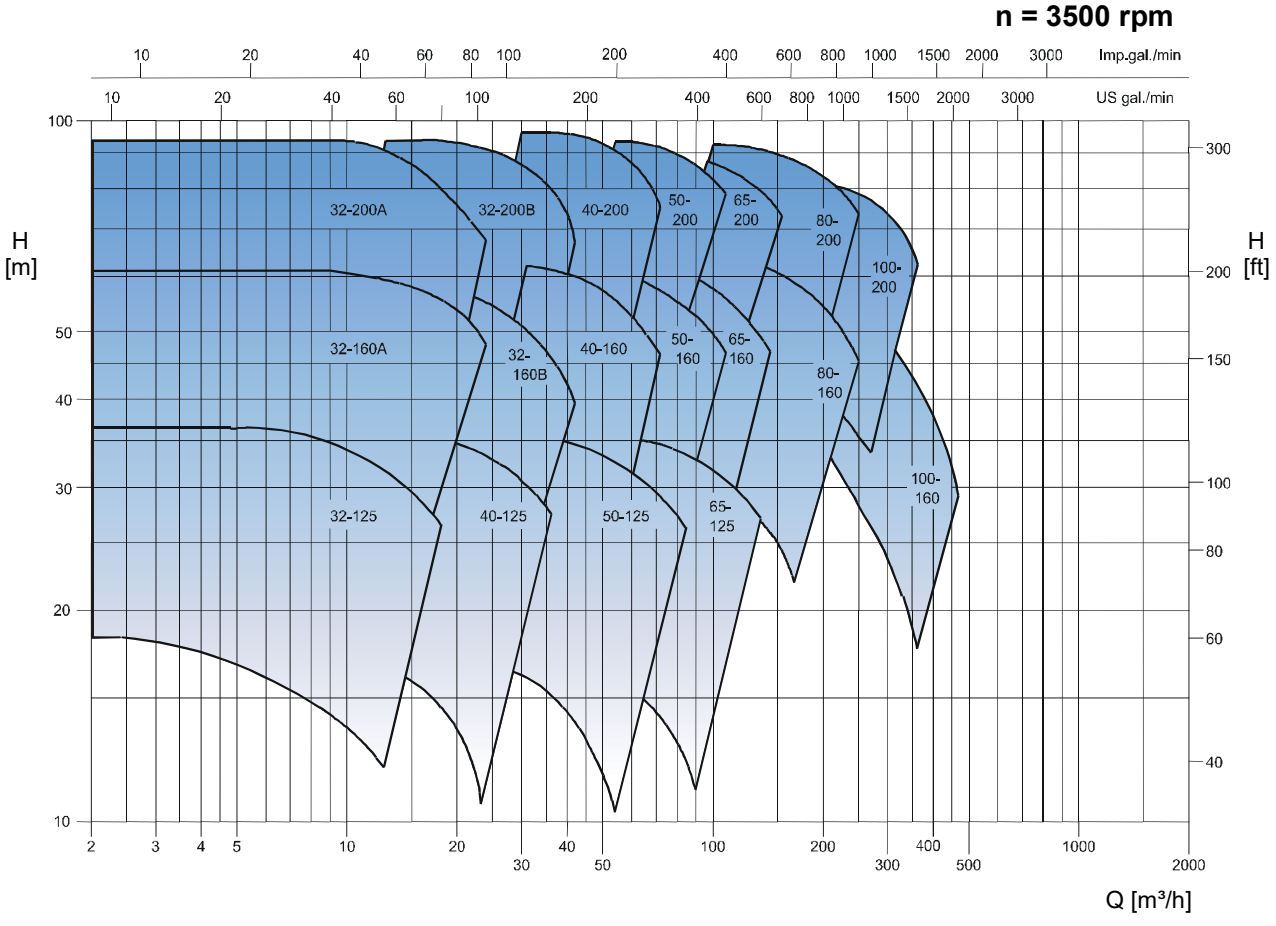
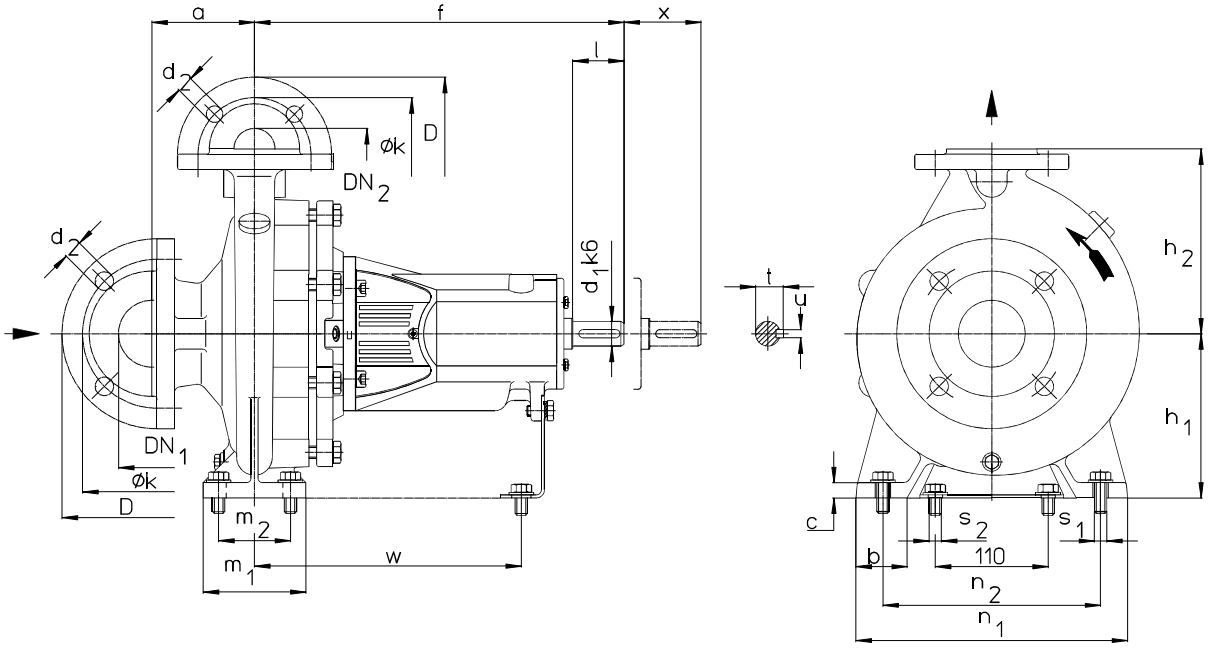


Table of Dimensions

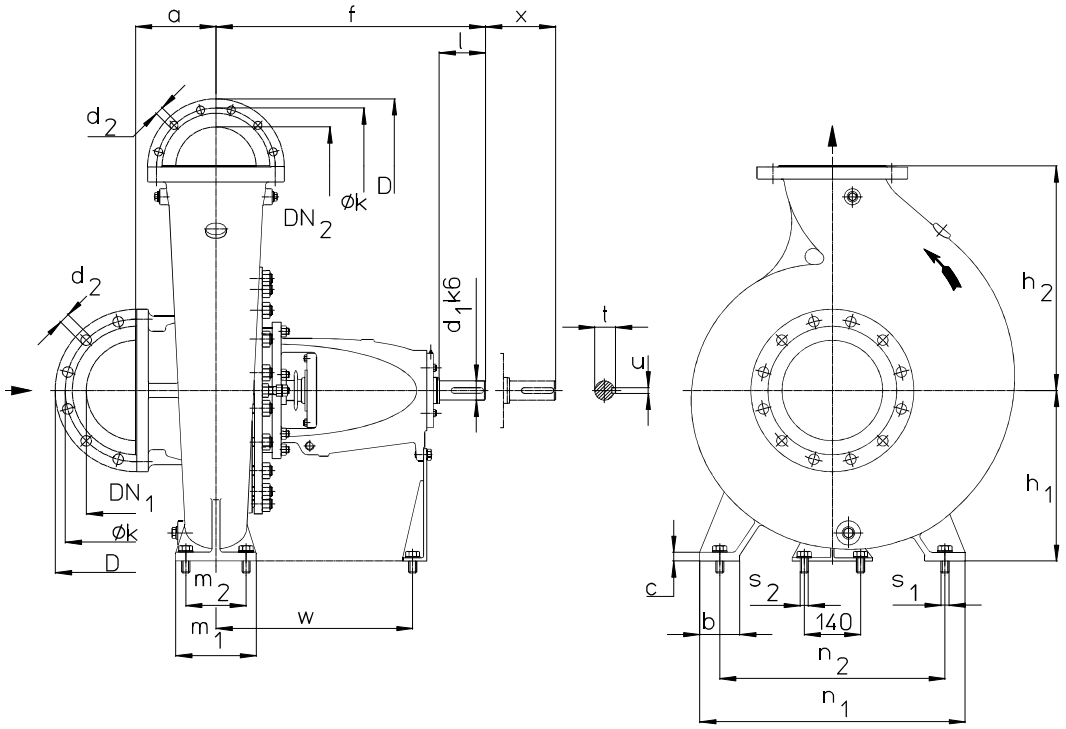


All dimensions in mm

Size	BB	Pump dimensions						Foot dimensions									Shaft end				
		DN_2	DN_1	a	f	h1	h2	b	c	m1	m2	n1	n2	s1*	s2*	w	x	d_1	l	t	u
32125	25	32	50	80	360	112	140	50	15	100	70	190	140	M12	M12	260	100	24	50	27	8
32160	25	32	50	80	360	132	160	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8
32200	25	32	50	80	360	160	180	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8
32250[1)]	25	32	50	100	360	180	225	65	15	125	95	320	250	M12	M12	260	100	24	50	27	8
40125	25	40	65	80	360	112	140	50	15	100	70	210	160	M12	M12	260	100	24	50	27	8
40160	25	40	65	80	360	132	160	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8
40200	25	40	65	100	360	160	180	50	15	100	70	265	212	M12	M12	260	100	24	50	27	8
40250	25	40	65	100	360	180	225	65	15	125	95	320	250	M12	M12	260	100	24	50	27	8
40315[1)]	35	40	65	125	470	225	250	65	18	125	95	345	280	M12	M12	340	100	32	80	35	10
50125	25	50	65	100	360	132	160	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8
50160	25	50	65	100	360	160	180	50	15	100	70	265	212	M12	M12	260	100	24	50	27	8
50200	25	50	65	100	360	160	200	50	15	100	70	265	212	M12	M12	260	100	24	50	27	8
50250	25	50	65	100	360	180	225	65	15	125	95	320	250	M12	M12	260	100	24	50	27	8
50315[1)]	35	50	65	125	470	225	280	65	17	125	95	345	280	M12	M12	340	100	32	80	35	10
65125	25	65	80	100	360	160	180	65	15	125	95	280	212	M12	M12	260	100	24	50	27	8
65160	25	65	80	100	360	160	200	65	15	125	95	280	212	M12	M12	260	100	24	50	27	8
65200	25	65	80	100	360	180	225	65	15	125	95	320	250	M12	M12	260	140	24	50	27	8
65250	35	65	80	100	470	200	250	80	15	160	120	360	280	M16	M12	340	140	32	80	35	10
65315	35	65	80	125	470	225	280	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
80160	25	80	100	125	360	180	225	65	15	125	95	320	250	M12	M12	260	140	24	50	27	8
80200	35	80	100	125	470	180	250	65	15	125	95	345	280	M12	M12	340	140	32	80	35	10
80250	35	80	100	125	470	200	280	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
80315	35	80	100	125	470	250	315	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
80400[1)]	45	80	125	125	530	280	355	80	18	160	120	435	355	M16	M12	370	140	42	110	45	12
100160[1)]	35	100	125	125	470	200	280	80	18	160	120	360	280	M16	M12	340	140	32	80	35	10
100200	35	100	125	125	470	200	280	80	18	160	120	360	280	M16	M12	340	140	32	80	35	10
100250	35	100	125	140	470	225	280	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
100315	35	100	125	140	470	250	315	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
100400	45	100	125	140	530	280	355	100	18	200	150	500	400	M20	M12	370	140	42	110	45	12
125200[1)]	35	125	150	140	470	250	315	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
125250	35	125	150	140	470	250	355	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10
125315	45	125	150	140	530	280	355	100	18	200	150	500	400	M20	M12	370	140	42	110	45	12
125400	45	125	150	140	530	315	400	100	18	200	150	500	400	M20	M12	370	140	42	110	45	12
150200[1)]	35	150	200	160	470	280	400	100	20	200	150	550	450	M20	M12	340	140	32	80	35	10
150250[1)]	35	150	200	160	470	280	400	100	20	200	150	500	400	M20	M12	340	140	32	80	35	10
150315	45	150	200	160	530	280	400	100	18	200	150	550	450	M20	M12	370	140	42	110	45	12
150400	45	150	200	160	530	315	450	100	18	200	150	550	450	M20	M12	370	140	42	110	45	12
200250[1)]	45	200	200	160	590	280	400	100	22	200	150	500	400	M20	M12	430	180	42	110	45	12

[1)]Transnorm pump sizes, not included in DIN 24255 / EN 733. Flanges drilled according to ANSI 150 on request.
* Slots suitable for bolts with dimensions indicated. Bolts are not included in the bare shaft pump standard scope of supply.

Table of Dimensions



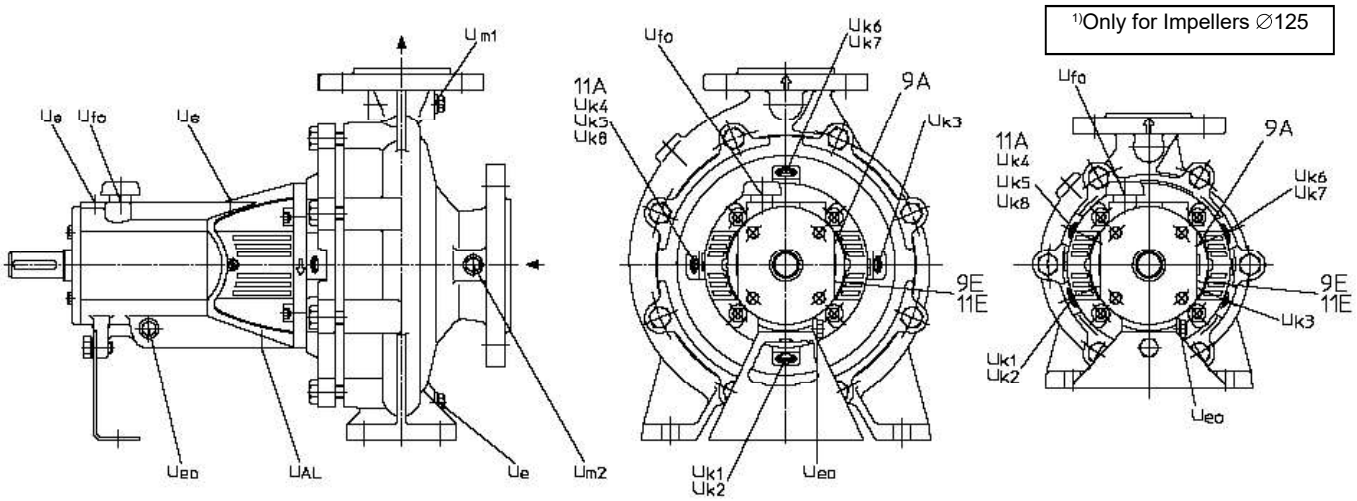
All dimensions in mm

Size	BB	Pump dimensions						Foot dimensions									Shaft end				
		DN_2	DN_1	a	f	h1	h2	b	c	m1	m2	n1	n2	s1*	s2*	w	x	d_1	l	t	u
150500[1)]	55	150	200	180	670	400	500	100	22	200	150	640	540	M20	M16	489	180	50	115	53.5	14
200315[1)]	55	200	250	200	670	355	450	100	22	200	150	550	450	M20	M16	489	180	50	115	53.5	14
200400[1)]	55	200	250	180	670	355	500	100	22	200	150	550	450	M20	M16	489	180	50	115	53.5	14
200500[1) 3)]	55	200	250	200	670	425	560	100	22	200	150	660	560	M20	M16	489	180	50	115	53.5	14
250300[1)]	55	250	300	305	655	425	550	120	28	240	190	700	600	M20	M16	474	180	50	115	53.5	14
250315[1)]	55	250	300	250	670	375	560	120	28	240	190	620	520	M20	M16	489	180	50	115	53.5	14
250400[1)]	65	250	300	250	720	400	600	120	29	240	190	700	600	M20	M16	508	180	60[2)]	145	64	18
250500[1)]	65	250	300	250	720	450	670	120	32	240	190	750	650	M20	M16	508	180	60[2)]	145	64	18
300400[1)]	65	300	350	300	720	425	670	120	30	250	190	760	660	M24	M16	508	180	60[2)]	145	64	18
300500[1)]	65	300	350	300	720	480	670	140	32	250	190	840	720	M24	M16	508	180	60[2)]	145	64	18

[1)]Transnorm pump sizes, not included in DIN 24255 / EN 733. Flanges drilled according to ANSI 150 on request.
[2)]For these sizes the clearance corresponds to M6.
[3)]Discharge flange 12 x threaded drillings/M20 (only for PN 16 flanges).
* Slots suitable for bolts with dimensions indicated. Bolts are not included in the bare shaft pump standard scope of supply.

Flange connections to DIN 2501 PN 16														DIN 2501 PN 10			
DN_2/DN_1	32	40	50	65	80	100	125	150	200	250	300	350	400	100	125	150	200
D	140	150	165	185	200	220	250	285	340	405	460	520	580	220	250	285	340
k	100	110	125	145	160	180	210	240	295	355	410	470	525	180	210	240	295
d_2 x number	18x4	18x4	18x4	18x4	18x8	18x8	18x8	22x8	22x12	26x12	26x12	26x16	30x16	18x8	18x8	22x8	22x8

Connections for bearing brackets 25, 35 and 45



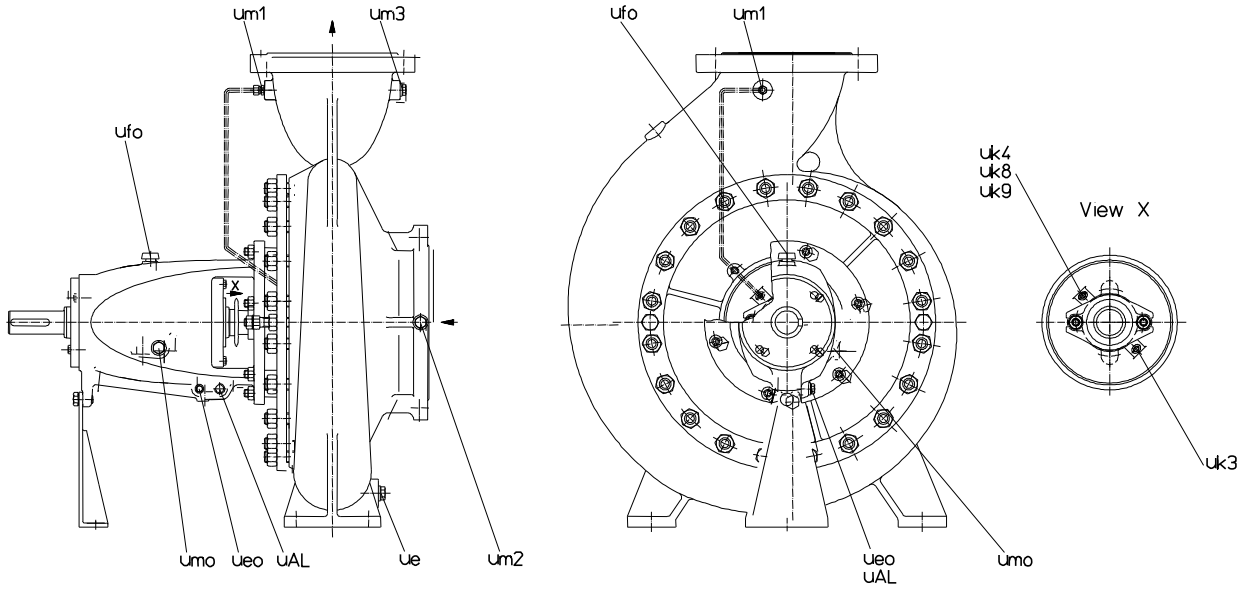
u_{m1} : Pressure gauge. Only available on request
u_{m2} : Pressure gauge. Only available on request
u_e : Drainage
u_{eo} : Oil drainage
u_{fo} : Oil filling
u_{AL} : Drainage for leakage. Threaded hole only available on request
u_s : Sensor
9A : Quench liquid outlet (tandem arrangement)
9E : Quench liquied inlet (tandem arrangement)

u_{k1} : Quench Inlet
u_{k2} : Heating Inlet
u_{k3} : 051 Inlet (Stuffing box)
u_{k4} : 052 External sealing (Stuffing box)
u_{k5} : External Flushing
u_{k6} : Quench Outlet
u_{k7} : Heating Outlet
u_{k8} : 051 Outlet (Stuffing box)
11A : Sealing liquid outlet (back to back arrangement)
11E : Sealing liquid inlet (back to back arrangement)

Size	u_{m1}	u_{m2}	u_e	u_{eo}	u_{fo}	u_{AL}	u_s	u_{k1}	u_{k2}	u_{k3}	u_{k4}	u_{k5}	u_{k6}	u_{k7}	u_{k8}	9A	9E	11A	11E
32125[1)]	G 1 / 4		G 1 / 4	G 1 / 4	∅15.65	∅13	M 8	G 1 / 8								G 1/4		G 1/8	G 1/4
32160																			
32200																			
32250																			
40125[1)]																			
40160																			
40200																			
40250																			
40315																			
50125[1)]																			
50160																			
50200																			
50250																			
50315																			
65125[1)]			G 3 / 8																
65160																			
65200																			
65250																			
65315																			
80160																			
80200																			
80250																			
80315																			
80400								G 1 / 4											
100160								G 1 / 8											
100200																			
100250																			
100315																			
100400								G 1 / 4											
125200								G 1 / 8											
125250																			
125315								G 1 / 4											
125400																			
150200								G 1 / 8											
150250																			
150315								G 1 / 4											
150400																			
200250																			

Certain construction sizes do not correspond in all details to the drawing.

Connections for bearing brackets 55 and 65.

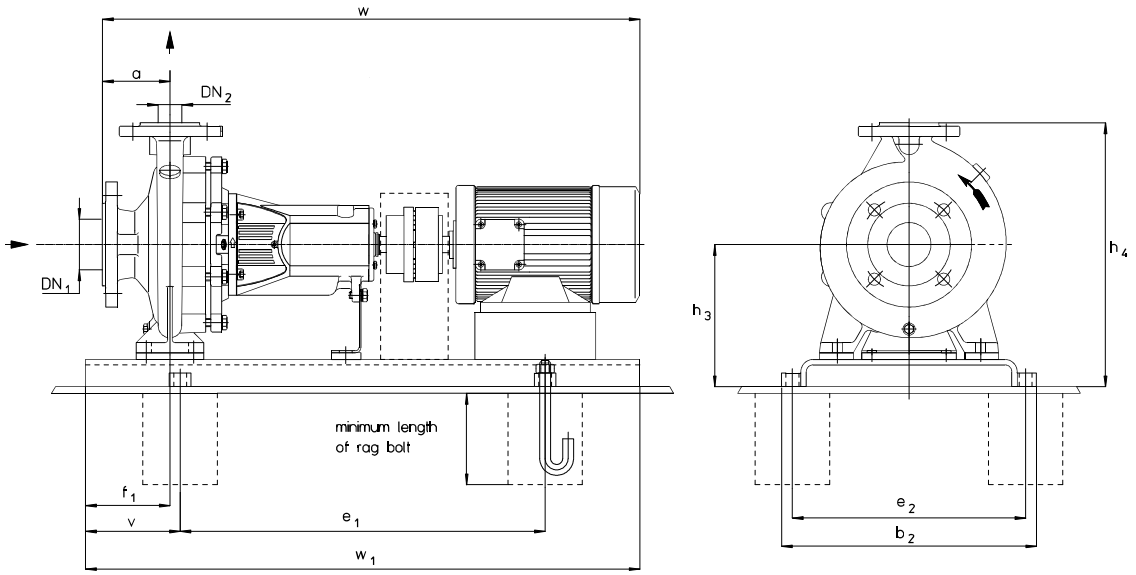


u_{m1} : Self sealing connection
u_{m2} : Pressure/vacuum gauge. Only available on request
u_e : Drainage
u_{eo} : Oil drainage
u_{fo} : Oil filling
u_{AL} : Drainage for leakage

u_{m3} : Pressure gauge connection
u_{k3} : 051 Inlet (Stuffing box)
u_{k4} : 052 External sealing (Stuffing box)
u_{k8} : 051 Outlet (Stuffing box)
u_{mo} : Oil level control
u_{k9} : 041 inlet (Stuffing box)

Size	u_{m1}	u_{m2}	u_e	u_{eo}	u_{fo}	u_{AL}	u_{m3}	u_{k3}	u_{k4}	u_{k8}	u_{mo}	u_{k9}
150500	G1/4	G1/2	G1/2	G1/4	∅20	G1/2	G1/2	G1/4	G1/4	G1/4	G3/4	G1/4
200315												
200400												
200500												
250300												
250315												
250400												
250500												
300400												
300500												

Foundation plan, bearing brackets 25, 35 and 45.



Dimensions in mm

Tolerances for welded parts acc. to DIN 8570 B

n = 1450 rpm

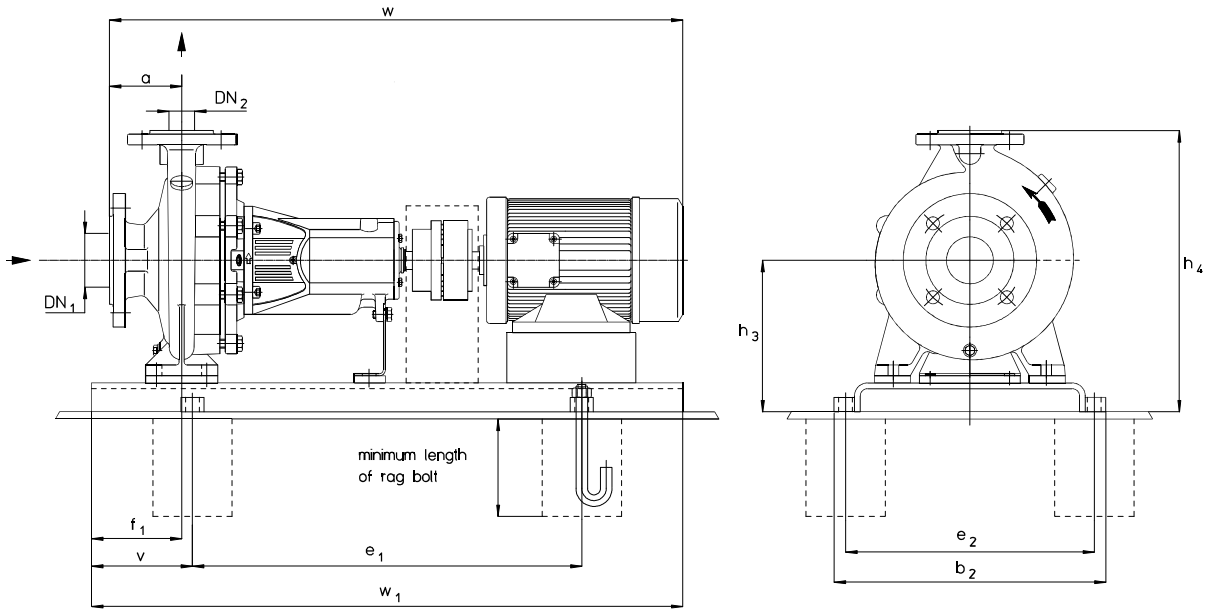
Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	w*	w_1	Rag bolt
	size	kW	No.		pump	unit													
32-125	71	0.25	S241		31	50				330	480	290			177	317	683		
	71	0.37				65									197	357	683		
32-160	80	0.55			33	67			80				125				717		
	80	0.55	S301			68				390	480	350					717	730	M16x200
32-200	80	0.75		B68	34	70	32	50						60	225	405	717		
	90S	1.10				73											775		
	80	0.75				103											737		
32-250	90S	1.10	S383		46	106			100	490	600	440	160	75	260	485	795	920	M20x400
	90L	1.50				109											795		
	100L	2.20		B80		119											836		
40-125	71	0.37	S241		28	60				330		290			177	317	683		
	80	0.55				62											717		
	71	0.37				62											683		
	80	0.55				64			80								717		
40-160	80	0.75			30	66							125		197	357	717		M16x200
	90S	1.10	S301	B68		69				390	480	350		60			775	730	
	80	0.55				75											737		
	80	0.75				77											737		
40-200	90S	1.10			36	80	40	65							225	405	795		
	90L	1.50				83			100								795		
	90S	1.10				106											795		
40-250	90L	1.50			46	109									260	485	795		
	100L	2.20				119											836		
	100L	3.00	S383			121				490	600	440	160	75			836	920	M20x400
	100L	2.20		B80		147											971		
40-315	100L	3.00			73	150			125						305	555	971		
	112M	4.00				155											992		
	132S	5.50	S434	B95		171				540	660	490	170				1068	1000	
	71	0.37				62											703		
50-125	80	0.55			30	64									197	357	737		
	80	0.75				66											737		
	80	0.55				75											737		
50-160	80	0.75		B68	36	77										405	737	730	
	90S	1.10	S301			80											795		M16x200
	80	0.75				81			100	390	480	350	125	60	225		737		
50-200	90S	1.10			40	84										425	795		
	90L	1.50				87	50	65									795		
	100L	2.20	S342	B80		97				450	540	400	140		240	440	836	820	
	90L	1.50		B68		114											795		
50-250	100L	2.20			50	123									260	485	836		
	100L	3.00		B80		125											836		
	112M	4.00	S383			131				490	600	440	160	75			857	920	M20x400
	112M	4.00				171											992		
50-315	132S	5.50	S434	B95	88	186			125	540	660	490	170		305	585	1068	1000	
	132M	7.50				198											1094		
65-125	80	0.55			33	80										420	737		
	80	0.75		B68		82											737		
65-160	80	0.75	S342			88	65	80	100	450	540	400	140	60	240		737	820	M20x400
	90L	1.50			39	95										440	795		
	100L	2.20		B80		104											836		

Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	w*		Rag bolt
	size	kW	No.		pump	unit													size
65-200	90S	1.10	S383	B68	45	105	65	80	100	490	600	440	160	75	260	485	795	920	M20x400
	90L	1.50				108											795		
	100L	2.20		B80		118											836		
	100L	3.00				120											836		
	112M	4.00				125											857		
65-250	100L	2.20	S434		70	158				540	660	490	170	90	280	530	946	1000	
	100L	3.00				160											946		
	112M	4.00				165											967		
	132S	5.50	S605	B95	92	181			125	730	740	670	190		300	550	1043	1120	M24x400
65-315	132S	5.50				236									325	605	1068		
	132M	7.50				247											1094		
	160M	11.00				268											1186		
	160L	15.00	S486	B110		288				610	840	550	205				1248	1250	
80-160	80	0.75	S383	B68	43	100	80	100	125	490	600	440	160	75	260	485	762	920	M20x400
	90S	1.10				103											820		
	90L	1.50				106											820		
	100L	2.20		B80		116											861		
	100L	3.00				118											861		
80-200	90L	1.50			60	125										510	930		
	100L	2.20				134											971		
	100L	3.00				136											971		
	112M	4.00				141											992		
	132S	5.50	S434	B95		157				540	660	490	170				1068	1000	
80-250	100L	3.00	S605	B80	75	197	80	100	125	730	740	670	190	90	300	580	971	1120	M24x400
	112M	4.00				202											992		
	132S	5.50		B95		218											1068		
	132M	7.50				230											1094		
80-315	132S	5.50			95	239									350	665	1068		
	132M	7.50				251											1094		
	160M	11.00				272											1186		
	160L	15.00		B110		291											1248		
80-400	160M	11.00	S486	B95	143	322	80	125		610	840	550	205		380	735	1247	1250	
	160L	15.00				340											1247		
	180M	18.50		B110		361											1371		
	180L	22.00				376											1371		
	200L	30.00		B125		424											1429		
100-160	100L	2.20	S434	B80	78	166	100	125	125	540	660	490	170	90	280	560	971	1000	M20x400
	100L	3.00				169											971		
	112M	4.00				174											992		
	132S	5.50	S605	B95		190				730	740	670	190		300	580	1068	1120	M24x400
100-200	100L	2.20	S434	B80	70	158				540	660	490	170		280	560	971	1000	M20x400
	100L	3.00				160											971		
	112M	4.00				165											992		
	132S	5.50	S605	B95	85	181				730	740	670	190		300		1068	1120	M24x400
	132M	7.50				193											1094		
100-250	112M	4.00		B80		213	100	125	140						325	605	1007		
	132S	5.50				228											1083		
	132M	7.50		B95		240											1109		
	160M	11.00				261											1201		
100-315	160M	11.00	S486	B110	104	281				610	840	550	205		350	665	1201	1250	
	160L	15.00				300											1263		
	180M	18.50				320											1325		
	180L	22.00		B125		337											1325		
100-400	160L	15.00	S606	B95	177	402				730		670		110	380	735	1262		
	180M	18.50		B110		423											1386		
	180L	22.00				438											1386		
	200L	30.00		B125		486											1444		
	225S	37.00	S607	B140		548					940		230				1481	1400	
	225M	45.00				569											1481		
125-200	132M	7.50	S605	B95	100	256	125	150	140	730	740	670	190	90	350	665	1109	1120	M24x400
	160M	11.00				277											1201		
	160L	15.00	S486	B110		296				610	840	550	205				1263	1250	
125-250	132M	7.50	S605	B95	102	258				730	740	670	190			705	1109	1120	
	160M	11.00				279											1201		
	160L	15.00	S486	B110		298				610		550					1263		
125-315	160L	15.00	S606	B95	151	375				730	840		205	110	380	735	1262	1250	
	180M	18.50		B110		396											1386		
	180L	22.00				411											1386		
	200L	30.00		B125		459											1444		
	225S	37.00	S607	B140		520					940	670	230				1481	1400	
125-400	200L	30.00	S606	B125	188	498					840		205		415	815	1444	1250	
	225S	37.00	S607	B140		559					940		230				1481	1400	
	225M	45.00				580											1481		
	250M	55.00		B160		793											1604		
	280S	75.00	180x73x14	B180		1047					1460	680	170	200	455	855	1679	1800	M16x200
150-200	132M	7.50	S605	B95	123	295	150	200	160	730	740		190	110	380	780	1129	1120	M24x400
	160M	11.00				316											1221		
	160L	15.00	S606	B110		335					840	670	205				1283	1250	
	180M	18.50				355											1345		
150-250	160L	15.00			128	340											1283		
	180M	18.50				360											1345		
	180L	22.00		B125		389											1345		
	200L	30.00	S607	B140		436					940		230				1403	1400	

Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	w*	w_1	Rag bolt
	size	kW	No.		pump	unit													
150-315	180L	22.00	S606	B110	170	431	150	200	160	730	840	670	230	110	380	780	1406	1250	M24x400
	200L	30.00		B125		479											1464		
	225S	37.00	S607	B140		540					940						1501	1400	
	225M	45.00				561											1501		
	250M	55.00		B160		774											1624		
150-400	225M	45.00		B140	205	598									415	865	1501		
	250M	55.00		B160		811											1624		
200-250	160L	15.00	S607	B95	230	471	200	200	160	730	940	670	230	185	380	780	1342	1400	M24x400
	180M	18.50		B110		492											1466		
	180L	22.00				507											1466		
	200L	30.00		B125		555											1524		

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimension listed are taken from the SIEMENS catalogue.

Foundation plan, bearing brackets 25,35 and 45



Dimensions in mm

Tolerances for welded parts acc. to DIN 8570 B

n = 2900 rpm

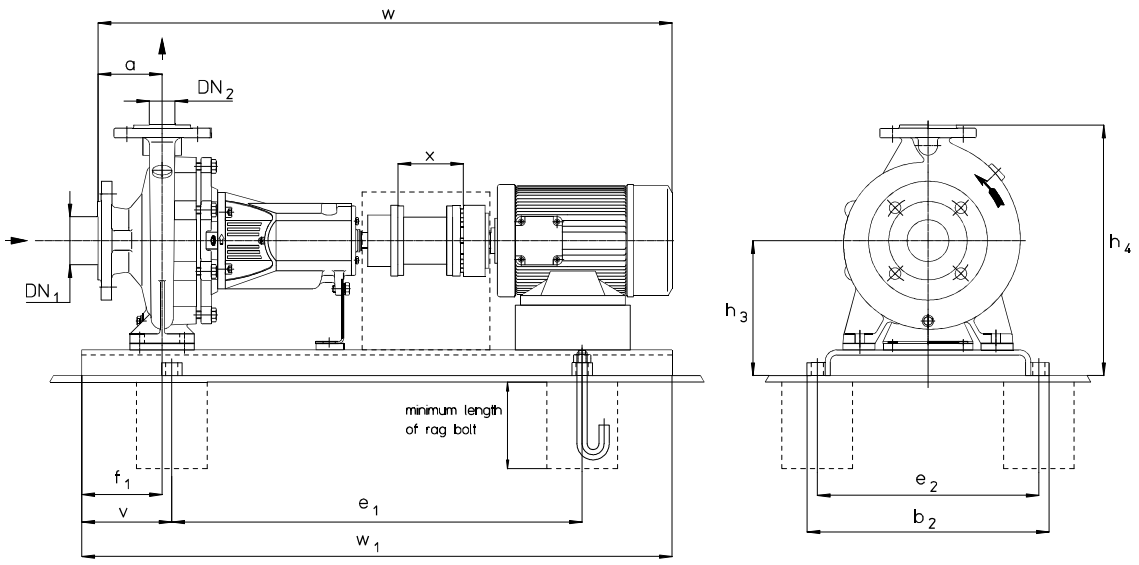
Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	w*	w_1	Rag bolt
	size	kW	No.		pump	unit													
32-125	71	0.55	S241	B68	31	51	32	50	80	330	480	290	125	60	177	317	683	730	M16x200
	80	0.75				52											717		
	80	1.10				54											717		
	90S	1.50				57											775		
	90L	2.20				74											775		
32-160	90S	1.50	S301		33	72				390		350			197	357	775		
	90L	2.20				80											775		
	100L	3.00	S272	B80		89				360	540	320	140				816	820	
	112M	4.00				96											837		
32-200	90L	2.20	S301	B68	34	81				390	480	350	125		225	405	775	730	
	100L	3.00	S272	B80		90				360	540	320	140				816	820	
	112M	4.00				97											837		
	132S	5.50	S303	B95		128				390	600	350	160				913	920	
	132S	7.50				138											913		
32-250	132S	7.50	S383		46	151			100	490	660	440	170	75	260	485	933	1000	M20x400
	160M	11.00	S434			171				540		490					1051		
	160M	15.00				184											1051		
40-125	80	1.10	S241	B68	28	64	40	65	80	330	480	290	125	60	177	317	717	730	M16x200
	90S	1.50				67											775		
	90L	2.20				71											775		
	100L	3.00	S272	B80		80				360	540	320	140				816	820	
40-160	90S	1.50	S301	B68	30	69				390	480	350	125		197	357	775	730	
	90L	2.20				77											775		
	100L	3.00	S272	B80		79				360	540	320	140				816	820	
	112M	4.00				93											837		
	132S	5.50	S303	B95		115				390	600	350	160				913	920	
40-200	100L	3.00	S342	B80	36	92			100	450	540	400	140		240	420	836	820	M20x400
	112M	4.00				99											857		
	132S	5.50	S303	B95		122				390	600	350	160		225	405	933	920	M16x200
	132S	7.50				133											933		
	160M	11.00	S383			162				490		440			240	420	1051		M20x400
40-250	132S	7.50	S434		46	151				540	660	490	170	75	260	485	933	1000	
	160M	11.00				171											1051		
	160M	15.00				184											1051		
	160L	18.50				224											1113		
50-125	90S	1.50	S301	B68	30	69	50	65	100	390	480	350	125	60	197	357	795	730	M16x200
	90L	2.20				77											795		
	132S	5.50	S303	B95		116					600		160				933	920	
50-160	90L	2.20	S301	B68	36	83					480		125		225	405	795	730	M16x200
	100L	3.00	S342	B80		92				450	540	400	140		240	420	836	820	M20x400
	112M	4.00				99											857		
	132S	5.50	S303	B95		122				390	600	350	160		225	405	933	920	M16x200
	132S	7.50				133											933		
	160M	11.00	S383			162				490		440			240	420	1050		M20x400

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken the SIEMENS catalogue.

Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	w*	w_1	Rag bolt
	size	kW	No.		pump	unit													
50-200	100L	3.00	S342	B80	40	96	50	65	100	450	540	400	140	60	240	440	836	820	M20x400
	112M	4.00				103											857		
	132S	5.50	S303	B95		126				390	600	350	160		225	425	933	920	M16x200
	132S	7.50				136											933		
	160M	11.00	S383			167				490	600	440	160		240	440	1051		M20x400
	160M	15.00				180											1051		
50-250	160M	15.00	S434		50	188				540	660	490	170	75	260	485	1051	1000	
	160L	18.50				228											1113		
	180M	22.00	S605	B110		243				730	740	670	190		280	505	1175	1120	M24x400
	200L	30.00		B125		303									300	525	1233		
65-125	100L	3.00	S342	B80	33	98	65	80	100	450	540	400	140	60	240	420	836	820	M20x400
	112M	4.00				104											857		
	132S	5.50	S383	B95		119				490	600	440	160				933	920	
	132S	7.50				130											933		
65-160	132S	5.50			39	125											933		
	132S	7.50				136										440	933		
	160M	11.00	S434			165				540	660	490	170	75			1051	1000	
	160M	15.00				179											1051		
65-200	160M	11.00			45	170									260	485	1051		
	160M	15.00				183											1051		
	160L	18.50				222											1113		
	180M	22.00	S605	B110		238				730	740	670	190		280	505	1175	1120	M24x400
	200L	30.00		B125		298									300	525	1233		
65-250	160L	18.50	S435	B95	70	254				540		490	200	90	280	530	1223	1140	M20x400
	180M	22.00	S486	B125		290				610	840	550	205		300	550	1285	1250	M24x400
	200L	30.00				397											1343		
	200L	37.00				332											1343		
	225M	45.00	S607			357				730	940	670	230		325	575	1373	1400	
80-160	132S	7.50	S383	B95	43	148	80	100	125	490	600	440	160	75	280	485	958	920	M20x400
	160M	11.00				167				540	660	490	170				1076	1000	
	160M	15.00	S434			181											1076		
	160L	18.50				220											1138		
	180M	22.00	S605	B110		235				730	740	670	190			505	1200	1120	M24x400
80-200	160M	15.00		B95	60	226											1186		
	160L	18.50				244										530	1248		
	180M	22.00		B110		259											1310		
	200L	30.00		B125		314				610	840	550	205		300	550	1368	1250	
	200L	37.00				338											1368		
80-250	180M	22.00	S486	B110	75	293										580	1310		
	200L	30.00				348											1368		
	200L	37.00		B125		372											1368		
	225M	45.00	S607			402				730	940	670	230		325	605	1398	1400	
	250M	55.00		B140		651									350	630	1528		
100-160	160L	18.50	S435	B95	78	263	100	125	125	540	740	490	200	90	280	560	1248	1140	M20x400
	180M	22.00	S486	B110		278				610	840	550	205		300	580	1310	1250	M24x400
	200L	30.00		B125		341											1368		
	200L	37.00				365											1368		
100-200	160L	18.50	S435	B95	70	254				540	740	490	200		280	560	1248	1140	M20x400
	180M	22.00	S486	B110		269				610	840	550	205		300	580	1310	1250	M24x400
	200L	30.00		B125		332											1368		
	200L	37.00				357											1368		
	225M	45.00	S607			397				730	940	670	230		325	605	1398	1400	
100-250	200L	30.00	S486	B125	85	358			140	610	840	550	205				1383	1250	M24x400
	200L	37.00				382											1383		
	225M	45.00	S607			413				730	940	670	230				1413	1400	
	250M	55.00		B140		661									350	630	1543		
	280S	75.00	S609A	B160		827				744	1200	696	300		380	660	1643	1800	
	280M	90.00				869											1643		
125-200	250M	55.00	S607	B140	100	677	125	150	140	730	940	670	230	90	350	665	1543	1400	M24x400
	280S	75.00	S609A	B160		842				744	1200	696	300		380	695	1643	1800	
	280M	90.00				884											1643		

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken from the SIEMENS catalogue.

Foundation plan for units with spacer type coupling, bearing brackets 25, 35 and 45



Dimensions in mm

Tolerances for welded parts acc. to DIN 8570B

n = 1450 rpm

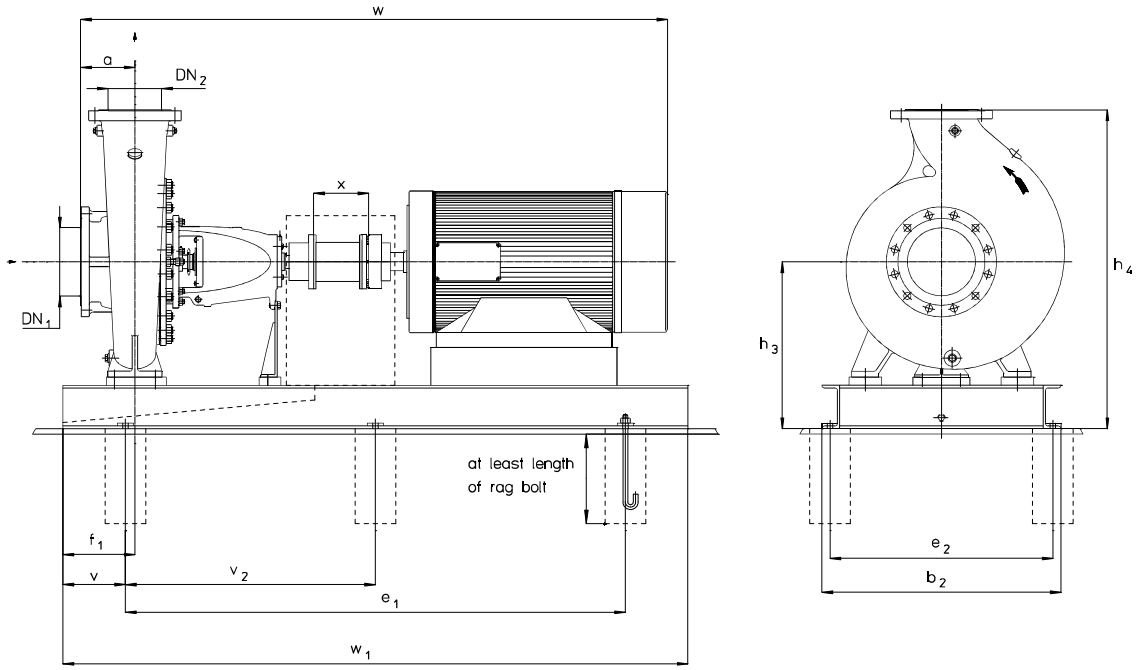
Size	Motor size	Motor kW	Base plate No.	Cplg.	Weight kg pump	Weight kg unit	DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	x	w*	w_1	Rag bolt
32-125	71	0.37			31	69									177	317		823		
	71	0.37				71									197	357		823		
32-160	80	0.55	S272		33	73			80	360	540	320	140					857	820	M16x200
	80	0.55				74	32	50							225	405		857		
32-200	80	0.75		H80	34	76								60			100	857		
	90S	1.10	S015			79				361		325			210	390		915		M12x100
	80	0.75				105												877		
32-250	90S	1.10	S383		46	108			100	490	600	440	160	75	260	485		935	920	M20x400
	90L	1.50				112												935		
	100L	2.20				120												976		
40-125	71	0.37			28	66									177	317		823		
	80	0.55				68												857		
	71	0.37	S272			68				360	540	320	140					823	820	
	80	0.55				70			80						197	357		857		M20x200
40-160	80	0.75			30	72												857		
	90S	1.10	S015			75				361	600	325	160	60	182	342		915	920	M12x100
	80	0.55	S342			85				450	540	400	140		240	420		877	820	M20x200
	80	0.75		H80		86												877		
40-200	90S	1.10	S303		36	89	40	65		390		350			225	405	100	935		M16x200
	90L	1.50				93			100		600		160					935	920	
	90S	1.10				108												935		
40-250	90L	1.50	S383		46	112				490		440		75	260	485		935		M20x400
	100L	2.20				120												976		
	100L	3.00				123												976		
	100L	2.20				163												1111		
40-315	100L	3.00	S605		73	165			125	730	740	670	190		325	575		1111	1120	M24x400
	112M	4.00				170												1132		
	132S	5.50		H95		186												1208		
	71	0.37				68												843		
50-125	80	0.55	S272		30	70				360		320			197	357		877		M16x200
	80	0.75				72					540		140					877	820	
	80	0.55	S342			77				450		400			240	420		877		M20x400
50-160	80	0.75			36	79												877		
	90S	1.10	S303			82				390	600	350	160		225	405		935	920	M16x200
	80	0.75	S342	H80		91			100	450	540	400	140	60	240	440		877	820	M20x400
50-200	90S	1.10			40	94	50	65									100	935		
	90L	1.50	S303			97				390		350			225	425		935		M16x200
	100L	2.20				106					600		160					976	920	
	90L	1.50				116												935		
50-250	100L	2.20	S383		50	125				490		440			260	485		976		M20x400
	100L	3.00				127												976		
	112M	4.00				132								75				997		
	112M	4.00		H95		186												1132		
50-315	132S	5.50	S605		88	201			125	730	740	670	190		325	605		1208	1120	M24x400
	132M	7.50		H80		226												1234		
65-125	80	0.55			33	83										420		877		
	80	0.75	S342			84				450	540	400	140					877	820	
	80	0.75		H80		90	65	80	100					60	240		100	877		M20x400
65-160	90L	1.50	S383		39	97				490	600	440	160			440		935	920	
	100L	2.20				115												976		

Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	x	w*	w_1	Rag bolt
	size	kW	No.		pump	unit														
	90S	1.10				107												935		
	90L	1.50				111												935		
65-200	100L	2.20	S383		45	119				490	600	440	160	75	260	485		976	920	M20x400
	100L	3.00				121												976		
	112M	4.00		H80		127			100									997		
	100L	2.20				159	65	80										1086		
65-250	100L	3.00	S605		70	161				730	740	670	190		300	550	140	1086	1120	M24x400
	112M	4.00				167												1007		
	132S	5.50	S435			196				540		490	200	90	280	530		1183	1140	M20x400
	132S	5.50		H95		237												1208		
65-315	132M	7.50	S486		92	249			125	610	840	550	205		325	605		1234	1250	M24x400
	160M	11.00				270												1326		
	160L	15.00	S607	H110		290				730	940	670	230					1388	1400	
	80	0.75				102												902		
	90S	1.10				105												960		
80-160	90L	1.50	S383		43	108				490	600	440	160		260	485		960	920	M20x400
	100L	2.20				117												1001		
	100L	3.00		H80		119												1001		
	90L	1.50	S434			126				540	660	490	170	75				1070	1000	
	100L	2.20				149												1111		
80-200	100L	3.00			60	151	80	100							280	530				
	112M	4.00	S605			156				730	740	670	190					1132	1120	
	132S	5.50		H95		172												1208		
	100L	3.00		H80		198												1111		
80-250	112M	4.00			75	203									300	580	140	1132		
	132S	5.50				219												1208		M24x400
	132M	7.50				231												1234	1250	
	132S	5.50	S486	H95		240			125	610	840	550	205	90				1208		
80-315	132M	7.50			95	252									350	665		1234		
	160M	11.00				273												1326		
	160L	15.00	S607	H110		293												1388	1400	
	160M	11.00	S486	H95		324				730								1383	1250	
	160L	15.00				381												1383		
80-400	180M	18.50	S607	H110	143	403	80	125			940	670	230		380	735		1507	1400	
	180L	22.00				418												1507		
	200L	30.00		H125		467												1565		
	100L	2.20				168												1111		
100-160	100L	3.00	S605	H80	78	170				730		670	190		300	580		1111	1120	M24x400
	112M	4.00				175												1132		
	132S	5.50	S435	H95		204				540		490	200		280	560		1208	1140	M20x400
	100L	2.20				159			125		740							1111		
100-200	100L	3.00	S605	H80	70	161				730		670	190		300	580		1111	1120	M24x400
	112M	4.00				167												1132		
	132S	5.50	S435	H95		196				540		490	200		280	560		1208	1140	M20x400
	132M	7.50	S486			207				610	840	550	205	90	300	580		1234	1250	
	112M	4.00	S605	H80		214				730	740	670	190					1147	1120	
100-250	132S	5.50			85	230	100	125							325	605		1223		
	132M	7.50	S486	H95		241				610	840	550	205					1249	1250	
	160M	11.00				262											140	1341		
	160M	11.00				282			140									1341		M24x400
100-315	160L	15.00		H110	104	302									350	665		1403		
	180M	18.50				322												1465	1400	
	180L	22.00		H125		339												1465		
	160L	15.00	S607	H95		417					940		230					1398		
	180M	18.50		H110		439				730		670						1522		
100-400	180L	22.00			177	454								110	380	735		1522	1400	
	200L	30.00		H125		502												1580		
	225S	37.00	S608	H140		553					1060		270					1617	1600	
	225M	45.00				574												1617		
	132M	7.50	S486	H95		257				610	840	550	205					1249	1250	
125-200	160M	11.00			100	278										665		1341		
	160L	15.00	S607	H110		298				730	940	670	230	90	350			1403	1400	
	132M	7.50	S486	H95		259				610	840	550	205					1249	1250	
125-250	160M	11.00			102	280										705		1341		
	160L	15.00		H110		300												1403		
	160L	15.00		H95		390												1398		
	180M	18.50	S607	H110		412												1522	1400	M24x400
125-315	180L	22.00			151	426	125	150	140	730	940	670	230	110	380	735	140	1522		
	200L	30.00		H125		475												1580		
	225S	37.00	S608	H140		526					1060		270					1617	1600	
	200L	30.00	S607	H125		514					940		230					1580	1400	
125-400	225S	37.00		H140		564									415	815		1617		
	225M	45.00	S608		188	585					1060		270					1617	1600	
	250M	55.00		H160		817												1740		
	280S	75.00	180x73x14	H180		1054					1460	680	170	200	455	855		1815	1800	M16x200
	132M	7.50	S606	H95		296					840		205					1269	1250	
150-200	160M	11.00			123	329	150	200	160	730		670		110	380	780	140	1361		M24x400
	160L	15.00	S607	H110		348					940		230					1423	1400	
	180M	18.50				368												1485		

Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	x	w*	w_1	Rag bolt
	size	kW	No.		pump	unit														
150-250	160L	15.00	S607	H110	128	354	150	200	160	730	940	670	230	110	380	780	140	1423	1400	M24x400
	180M	18.50				374												1485		
	180L	22.00		H125		391												1485		
	200L	30.00		H140		454												1543		
150-315	180L	22.00		H110	170	446												1542		
	200L	30.00		H125		495												1600		
	225S	37.00	S608	H140		546					1060		270		415	865		1637	1600	
	225M	45.00				567												1637		
	250M	55.00		H160		798												1760		
150-400	225M	45.00		H140	205	603												1637		
	250M	55.00		H160		835												1760		
200-250	160L	15.00		H110	230	492	200	200				670		185	380	780	180	1518		
	180M	18.50				512												1642		
	180L	22.00				527												1642		
	200L	30.00		H125		576												1700		

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken from the SIEMENS catalogue.

Foundation plan for units with spacer type coupling, bearing brackets 55 and 65



Dimensions in mm

Tolerances for welded parts acc. to DIN 8570 B

n = 1450 rpm

Size	Motor		Base plate dimension	Cplg.	Weight kg		DN_2	DN_1	a	b_2	v	e_1	e_2	v_2	f_1	h_3	h_4	x	w*	w_1	Rag bolt
	size	kW			pump	unit															
150400(1)	280S	75.0	194x73x14	H180	205	1072	150	200	160	730	190	1560	680	780	200	485	935	140	1835	1940	M16x200
	280M	90.0				1125													1835		
150-500	250M	55.0	208x82x14	H160	335	961			180	820	210	1660	770	830	240	570	1070	180	1960	2080	
	280S	75.0	215x82x14	H180		1143					210	1730		865					2035	2150	
	280M	90.0				1193					210								2035		
	315S	110	230x83x16	H200		1406				830	230	1840		920	245	590	1090		2170	2300	M18x200
	315M	132				1486					230								2170		
200-315	200L	30.0	194x73x14	H125	310	715	200	250	200	730	190	1560	680	780	260	525	975		1820	1940	M16x200
	225S	37.0	198x73x14	H140		780					190	1600		800					1857	1980	
	225M	45.0				810					190								1857		
	250M	55.0	210x73x14	H160		921					210	1680		840					1980	2100	
	280S	75.0	217x74x14	H180		1102				740	210	1750	690	875					2055	2170	
200-400	225M	45.0	198x73x14	H140	340	840			180	730	190	1600	680	800			1025		1837	1980	
	250M	55.0	210x73x14	H160		951					210	1680		840					1960	2100	
	280S	75.0	217x74x14	H180		1132				740	210	1750	690	875					2035	2170	
	280M	90.0				1182					210								2035		
	315S	110	230x82x16	H200		1409				820	230	1840	760	920		545	1045		2170	2300	M18x200
	315M	132				1489					230								2170		
200-500	280S	75.0	217x84x14	H180	395	1212			200	840	210	1750	790	875	265	595	1155	180	2055	2170	M16 x200
	280M	90.0				1262					210								2055		
	315S	110	246x85x16	H200		1474				850	250	1960		980		615	1175		2190	2460	M18 x200
	315M	132				1554					250								2190		
	315L	160				1709					250								2330		
	315L	200				1849					250								2330		
250-300	225S	37	207x88x14	H140	416	898	250	300	305	880	210	1650	830	825	365	595	1145		1947	2070	M16X200
	225M	45				928					210								1947		
	250M	55	219x88x14	H160		1044					210	1770		885					2070	2190	
	280S	75	226x88x14	H180		1225					230	1800		900					2145	2260	
250-315	225M	45	203x80x14	H140	424	936			250	800	210	1610	750	805	310	545	1105		1907	2030	
	250M	55	215x80x14	H160		1052					210	1730		865					2030	2150	
	280S	75	222x80x14	H180		1233					230	1760		880					2105	2220	
	280M	90				1283					230								2105		
	315S	110	237x82x16	H200		1496				820	230	1910	760	955	315	565	1125		2240	2370	M18x200

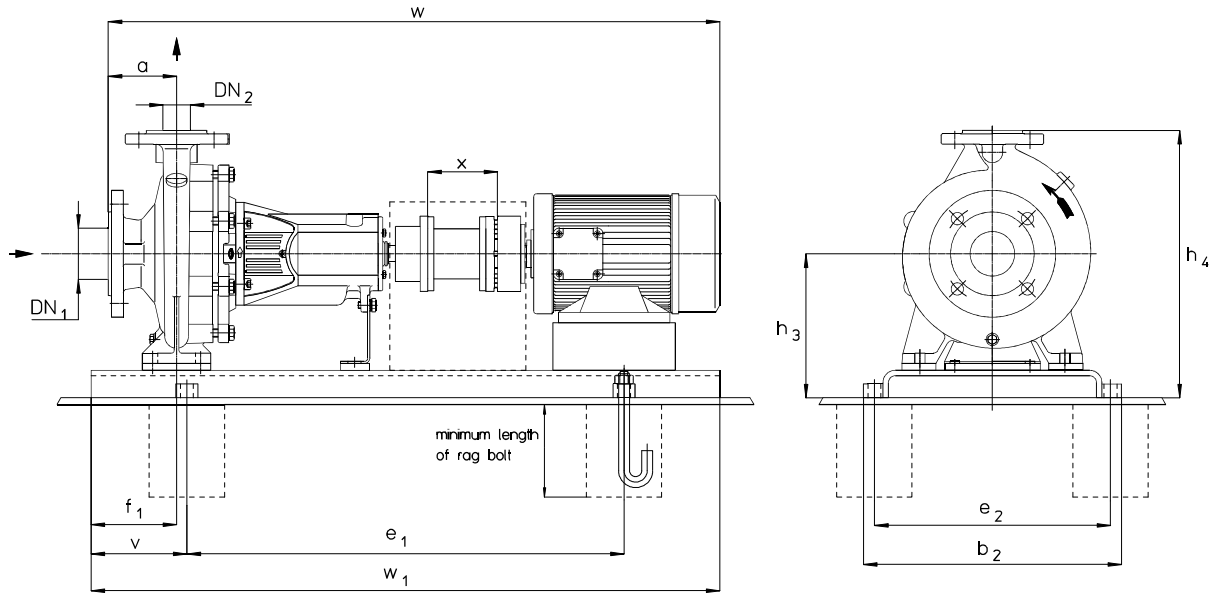
* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken from the SIEMENS, WEG, LEROY SOMER and ABB catalogues.

(1) Size 150400: bearing bracket 45.

Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	v	e_1	e_2	v_2	f_1	h_3	h_4	x	w*	w_1	Rag bolt
	size	kW	dimension		pump	unit															
250-400	225M	45	208x88x14	H140	464	991	250	300	250	880	210	1660	830	830	310	570	1170	180	1957	2080	M16x200
	250M	55	220x88x14	H160		1103					230	1740		870					2080	2200	
	280S	75	227x88x14	H180		1284					230	1810		905					2155	2270	
	280M	90				1334					230								2155		
	315S	110	256x89x16	H200		1552				890	250	2060		1030	315	590	1190		2290	2560	M18x200
	315M	132				1632					250								2290		
	315L	160				1787					250								2430		
250-500	315S	110	256x94x16	H200	589	1703				940	250	2060	880	1030		640	1310		2290		
	315M	132				1780					250								2290		
	315L	160				1933					250								2430		
	315L	200				2068					250								2430		
	315	250	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
	315	315																			
300-400	280M	90	232x94x14	H180	620	1515	300	350	300	940	230	1860	890	930	360	595	1265	180	2205	2320	M16x200
	315S	110	261X95X16	H200		1733				950	270	2070		1035	365	615	1285		2340	2610	M18x200
	315M	132				1810					270								2340		
	315L	160				1968					270								2480		
	315L	200				2103					270								2480		
300-500	315L	200	261x103x16	H200	800	2313				1030	270		970			670	1340		2480		
	315	250	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
	315	315																			
	355	355																			
	355	400																			
	355	500																			

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken from the SIEMENS, WEG, LEROY SOMER and ABB catalogues.
** On request.

Foundation plan for units with spacer type coupling, bearing brackets 25, 35 and 45



Dimensions in mm

Tolerances for welded parts acc. to DIN 8570 B

n = 2900 rpm

Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	x	w*	w_1	Rag bolt
	size	kW	No.		pump	unit														
	71	0.55	S272			70				360	540	320	140		177	317		823	820	M16x200
	80	0.75				71												857		
32-125	80	1.10			31	73									192	332		857		
	90S	1.50				76												915		
	90L	2.20				79												915		
	90S	1.50		H80		78												915		
32-160	90L	2.20			33	81												915		
	100L	3.00				89	32	50	80	490	740	440	200	60	212	372	100	956	1140	
	112M	4.00	S385			96												977		M20x400
	90L	2.20				82												915		
	100L	3.00				90												956		
32-200	112M	4.00			34	97									240	420		977		
	132S	5.50		H95		121												1053		
	132S	7.50				131												1053		
	132S	7.50		H95		152												1073		
32-250	160M	11.0			46	164			100					75	260	485		1191		
	160M	15.0				177												1191		
	80	1.10	S385			70									192	332		857	1140	M20x400
40-125	90S	1.50			28	73												915		
	90L	2.20	S605			76									212	352		915	1120	M24x400
	100L	3.00		H80		84			80						192	332		956		
	90S	1.50	S385			75									212	372		915	1140	M20x400
	90L	2.20				78												915		
40-160	100L	3.00			30	86				730	740	670	190					956		
	112M	4.00				93								60	232	392	100	977		
	132S	5.50		H95		116	40	65										1053		
	100L	3.00		H80		101												976		
	112M	4.00	S605			106												997	1120	M24x400
40-200	132S	5.50			36	123									260	440		1073		
	132S	7.50				133			100									1073		
	160M	11.00		H95		164												1191		
	132S	7.50				152												1073		
40-250	160M	11.00			46	193								75	280	505		1191		
	160M	15.00				207												1191		
	160L	18.50	S385			225				490		440	200		260	485		1253	1140	M20x400
	90S	1.50	S015	H80		75				361	600	325	160		182	342		935	920	M12x100
50-125	90L	2.20			30	78												935		
	132S	5.50	S434	H95		116				540	660	490	170		212	372		1073	1000	M20x400
	90L	2.20	S303			93	50	65	100	390	600	350	160	60	225	405	100	935	920	M14x200
	100L	3.00	S385	H80		101				490	740	440	200		240	420		976	1140	M20x400
50-160	112M	4.00	S303		36	108				390	600	350	160		225	405		997	920	M16x200
	132S	5.50	S434			123				540	660	490	170		240	420		1073	1000	M20x400
	132S	7.50		H95		133												1073		
	160M	11.00	S605			164				730	740	670	190		260	440		1191	1120	M24x400

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken from the SIEMENS catalogue.

Size	Motor		Base plate	Cplg.	Weight kg		DN_2	DN_1	a	b_2	e_1	e_2	v	f_1	h_3	h_4	x	w*	w_1	Rag bolt
	size	kW	No.		pump	unit														
	100L	3.00	S303	H80		105				390	600	350	160		225	425		976	920	M16 x200
	112M	4.00				112												997		
50-200	132S	5.50	S434		40	127				540	660	490	170		240	440		1073	1000	M20 x400
	132S	7.50				137								60				1073		
	160M	11.00		H95		168	50	65	100						260	460	100	1191		
	160M	15.00	S605			182				730	740	670	190					1191	1120	M24x400
	160M	15.00				211									280	505		1191		
50-250	160L	18.50	S385		50	229				490		440	200	75	260	485		1253	1140	M20x400
	180M	22.00	S486	H110		250				610	840	550	205		280	505		1315	1250	M24 x400
	200L	30.00		H125		281									300	525		1373		
	100L	3.00	S383	H80		108				490	600	440	160					976	920	
65-125	112M	4.00	S385		33	115					740		200		240	660		997	1140	
	132S	5.50				130												1073		
	132S	7.50	S434			141				540	660	490	170	60			100	1073	1000	M20x400
	132S	5.50				136										440		1073		
65-160	132S	7.50			39	147												1073		
	160M	11.00		H95		167									260	460		1191		
	160M	15.00	S605			180	65	80	100	730	740	670	190					1191	1120	M24 x400
	160M	11.00				192									280	505		1191		
	160M	15.00				206												1191		
65-200	160L	18.50	S385		45	224				490		440	200	75	260	485		1253	1140	M20x400
	180M	22.00	S486	H110		240				610	840	550	205		280	505		1315	1250	
	200L	30.00		H125		300										525		1373		
	160L	18.50		H95		264											140	1363		
	180M	22.00	S607	H110		280					940		230	90	300	550		1425	1400	M24x400
65-250	200L	30.00			70	389				730		670						1483		
	200L	37.00		H125		335												1483		
	225M	45.00	S608			414					1060		270		325	575		1513	1600	
	132S	7.50	S605			149				730		670	190		280	505		1098	1120	M24x400
	160M	11.00		H95		190					740							1216		
80-160	160M	15.00	S385		43	204				490		440	200		260	485		1216	1140	M20 x400
	160L	18.50				222												1278		
	180M	22.00		H110		237										505		1340		
	160M	15.00	S486	H95		227				610	840	550	205	75	280	530		1326	1250	M24x400
	160L	18.50				253	80	100	125									1388		
80-200	180M	22.00	S436	H110	60	269				540		490	215		260	510	140	1450	1270	M20x400
	200L	30.00		H125		324										550		1508		
	200L	37.00				348												1508		
	180M	22.00	S607	H110		295				730	940	670	230		300			1450	1400	
	200L	30.00		H125		350										580		1508		M24x400
80-250	200L	37.00			75	374								90				1508		
	225M	45.00	S608	H125		450					1060		270		325	605		1538	1600	
	250M	55.00		H140		655									350	630		1668		
	160L	18.50		H95		272												1388		
100-160	180M	22.00		H110	78	288												1450		
	200L	30.00		H125		343												1508		
	200L	37.00	S607			367					940		230		300	580		1508	1400	
	160L	18.50		H95		264			125									1388		
	180M	22.00		H110		280				730								1450		
100-200	200L	30.00			70	335	100	125				670					140	1508		M24x400
	200L	37.00				359								90				1508		
	225M	45.00	S608	H125		445					1060		270					1538	1600	
	200L	30.00	S607			350					940		230		325	605		1523	1400	
	200L	37.00				374												1523		
100-250	225M	45.00	S608		85	461					1060		270					1553	1600	
	250M	55.00		H140		666			140						350	630		1683		
	280S	75.00	S609A	H160		850				744	1200	696	300		380	660		1783	1800	
	280M	90.00				892												1783		
	250M	55.00	S608	H140		682				730	1060	670	270		350	665		1683	1600	
125-200	280S	75.00	S609A	H160	100	865	125	150	140	744	1200	696	300	90	380	695	140	1783	1800	M24 x400
	280M	90.00				907												1783		

* Motor protection type IP 55, dimensions depend on the motor manufacturer.
Dimensions listed are taken from the SIEMENS catalogue.

Data regarding size - order information

Type	Size	Hydraulic + Bearing	Shaft Seal	Material	Casing Gasket
		A• First hydraulic B• Second hydraulic D• Double volute •B Two ball bearings greased for life (2Z) •C Two ball bearings oil lubricated •S One double row angular contact bearing plus one ball bearing, grease lubricated •T One double row ball bearing plus ball bearing, oil lubricated	041: Self-sealed, uncooled packing rings 052: Uncooled packing rings, external seal liquid B27: Unbalanced bellows mechanical seal, seal face materials WC/Carbon, elastomer EPDM AF3: Balanced mechanical seal, seal face materials SiC/Carbon, elastomer EPDM BJ3: Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer EPDM C23: Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer EPDM AFS: Balanced mechanical seal, seal face materials SiC/ SiC, elastomer FPM (Viton) BJS: Unbalanced bellows mechanical seal, seal face materials SiC/ SiC, elastomer FPM (Viton) C2S: Unbalanced bellows mechanical seal, seal face materials SiC/ SiC, elastomer FPM (Viton) AFK: Balanced mechanical seal, seal face materials SiC/carbon, elastomer FPM (Viton) double PTFE (Teflon) wrapped AFJ: Balanced mechanical seal, seal face materials SiC/carbon, elastomer FPM (Viton) BJJ: Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer FPM (Viton) C2J: Unbalanced bellows mechanical seal, seal face materials SiC/Carbon, elastomer FPM (Viton) AX3,AXS,AXK: AF3,AFS,AFK plus quench AY3,AYS,AYK: AF3,AFS,AFK. plus heating A93,A9S,A9K,A9J: AF3,AFS,AFK,AFJ plus external flushing M1S: Tandem mechanical seal, type GNZ, seal face materials SiC / SiC, elastomer FPM (Viton) N1S: Tandem mechanical seal, type M7N, seal face materials SiC / SiC, elastomer FPM (Viton) NFS: Back to back seal, type M7N, seal face materials SiC / SiC, elastomer FPM (Viton)	0B: Cast iron GG25 0C: Cast iron GG25 Bronze G-CuSn10 impeller 0E: Cast iron GG25 stainless steel 1.4408 impeller 1B: Ductile cast iron GGG 40.3 Cast iron GG25 impeller 4B: Stainless steel 1.4408	2: Confined flat gasket of EWP 210 material 4: Confined flat gasket of PTFE.
ZLND	32125	AB, AC	Alternatively 041,052,B27(*),BJ3,C23,AF3,AX3,AY3,A93,BJS,C2S, AFS,AXS,AYS,A9S,BJJ,C2J,AFJ,A9J,M1S, N1S, NFS (*) only configuration valid for hot water up to 140ºC	Alternatively 0B, 0C, 0E, 1B, 4B	Alternatively 2 or 4
	32160	AB, AC, BB,BC			
	32200	AB, AC, BB, BC			
	32250	AB, AC			
	40125				
	40160				
	40200				
	40250				
	40315				
	50125				
	50160				
	50200				
	50250				
	50315				
	65125				
	65160				
	65200				
	65250				
	65315				
	80160				
	80200				
	80250				
	80315				
	80400				
	100160				
	100200				
	100250				
	100315				
	100400				
	125200				
	125250				
	125315				
	125400				
	150200				
	150250				
	150315				
	150400				
	200250	AB, AC			
	150500	AS, AT	Alternatively 041, 052, BJ3, C23, AF3, AX3, AY3, A93, BJS, C2S, AFS, AXS, AYS, A9S, BJJ, C2J, AFK, AXK, AYK, A9K,		
	200315	AS , AT			
	200400	DS, DT			
	200500				
	250300				
	250315	AS, AT			
	250400	DS, DT			
	250500				
	300400				
	300500				

Designs are subject to amendment without prior notice.

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