



In-line Pump

Etaline

SI Units and Imperial Units

Type Series Booklet



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Type Series Booklet Etaline

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Heating / Air-conditioning / Ventilation

In-line Pumps

Etaline



Main applications

- Service water supply systems
- Heating systems
- Industrial recirculation systems
- Air-conditioning systems
- Cooling circuits
- Water supply systems¹⁾

Fluids handled

- Fluids not chemically or mechanically aggressive to the materials

Further information on fluids handled

Overview of fluids handled

Operating data

Table 1: Operating properties (SI units)

Characteristic		Value	
		50 Hz	60 Hz
Flow rate	Q [m³/h]	≤ 700	≤ 850
	Q [l/s]	≤ 194	≤ 236
Head	H [m]	≤ 96	≤ 139
Fluid temperature	T [°C]	≥ -30	≥ -30
		≤ +140	≤ +140
Operating pressure	p [bar]	≤ 16	≤ 16

Table 2: Operating properties (imperial units)

Characteristic		Value	
		50 Hz	60 Hz
Flow rate	Q [gpm]	≤ 3082.01	≤ 3742.44
Head	H [ft]	≤ 314.96	≤ 456.04
Fluid temperature	T [°F]	≥ -22	≥ -22
		≤ 284	≤ 284
Operating pressure	p [psi]	≤ 232.06	≤ 232.06

Design details

Design

- Close-coupled design / in-line design
- Single-stage
- Horizontal/vertical installation
- Rigid connection between pump and motor
- Back pull-out design

Pump casing

- Radially split volute casing
- In-line design

Shaft seal

- Standardized mechanical seal to EN 12756
- Shaft equipped with replaceable shaft protecting sleeve in the shaft seal area

Impeller type

- Closed radial impeller

Bearings

- Radial ball bearing in motor housing
- Grease lubrication

¹ No drinking water in acc. with UBA (German drinking water regulations to German Environment Agency)

Designation

Table 3: Designation example

Position																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
E	T	L		0	3	2	-	0	3	2	-	1	6	0		G	G	S	B	V	0	1	W	S	E	A	F	2	H	H	B
See name plate and data sheet																															

See name plate and data sheet

Table 4: Designation key (SI units)

Position	Code	Description
1-4	Pump type	
	ETL	Etaline
5-16	Size [mm], e.g.	
	032	Nominal suction nozzle diameter
	032	Nominal discharge nozzle diameter
	160	Nominal impeller diameter
17	Pump casing material	
	G	Cast iron EN-GJL-250 / A48 Cl. 35
18	Impeller material	
	B	Bronze CC480K-GS / B30 C90700
	C	Stainless steel 1.4408 / A743CF8M
	G	Cast iron EN-GJL-250 / A48 Cl. 35
	P	Cast iron without protective coating EN-GJL-250 without protective coating
19	Design	
	H	Approved for drinking water to ACS
	K	Approved for drinking water to KSB standard
	S	Standard
	U	Approved for drinking water to UBA
	W	Approved for drinking water to WRAS
20	Casing cover connections	
	B	Conical casing cover with connection for venting
	C	Conical casing cover with vent
21	Shaft seal type	
	V	Single mechanical seal with vented chamber (A-type cover)
22-23	Seal code, single mechanical seal	
	01	QQVGG KSB's choice $\geq -20 - \leq +110$ [°C]
	07	QQEGG DW001 KSB's choice $\geq -30 - \leq +110$ [°C]
	09	U3U3VGG-Y10 EMG13-G6 $\geq -20 - \leq +110$ [°C]
	10	QQXGG KSB's choice $\geq -20 - \leq +110$ [°C]
	11	BQEGG DW001 KSB's choice $\geq -30 - \leq +110$ [°C]
	13	BQVGG KSB's choice $\geq -20 - \leq +110$ [°C]
	22	AQ1EGG (shaft unit 55) M32N69 $\geq -30 - \leq +140$ [°C]
	66	Q7Q7EGG-Y10 DW001 EMG13-G6 $\geq -30 - \leq +120$ [°C]
	76	AQ7EGG-Y10 ERMG13-G6 $\geq -30 - \leq +140$ [°C]
	79	Q7Q7VGG-Y10 EMG13-G6 $\geq -20 - \leq +110$ [°C]
24	Lubrication type	
	W	None
25	Order type	
	S	KSB standard
	C	Extended standard
	X	Special design
26	Shaft unit	
	E	Shaft unit 25
	F	Shaft unit 35
	H	Shaft unit 55
27-28	Motor rating P_N [kW]	
	AF	0.25
	...	...
	GY	55.00

Position	Code	Description
29	Number of motor poles	
	1	10 poles
	2	2 poles
	4	4 poles
	5	14 poles
30	Scope of supply	
	A	Bare-shaft pump (Fig. 0)
	G	Back pull-out unit
	H	Pump, motor
31	Accessories / Automation	
	A	KSB PumpDrive 2
	B	KSB PumpMeter
	C	KSB PumpDrive 2 + KSB PumpMeter
	D	KSB MyFlow
	E	KSB Guard
	H	None
	J	KSB PumpDrive 2 + KSB Guard
	K	KSB PumpMeter + KSB Guard
	L	KSB PumpDrive 2 + KSB PumpMeter + KSB Guard
	M	KSB MyFlow + KSB Guard
	N	KSB PumpDrive 3
	W	KSB PumpDrive 3 + KSB Guard
32	Product generation	
	B	Generation B

Table 5: Designation example

Position																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
E	T	L		0	3	2	-	0	3	2	-	1	6	0		G	G	S	B	V	0	1	W	S	E	A	F	2	H	H	B
See name plate and data sheet																															

Table 6: Designation key (imperial units)

Position	Code	Description
1-4	Pump type	
	ETL	Etaline
5-16	Size [mm], e.g.	
	032	Nominal suction nozzle diameter
	032	Nominal discharge nozzle diameter
	160	Nominal impeller diameter
17	Pump casing material	
	G	Cast iron EN-GJL-250 / A48 Cl. 35
18	Impeller material	
	B	Bronze CC480K-GS / B30 C90700
	C	Stainless steel 1.4408 / A743CF8M
	G	Cast iron EN-GJL-250 / A48 Cl. 35
	P	Cast iron without protective coating EN-GJL-250 without protective coating
19	Design	
	H	Approved for drinking water to ACS
	K	Approved for drinking water to KSB standard
	S	Standard
	U	Approved for drinking water to UBA
	W	Approved for drinking water to WRAS
20	Casing cover connections	
	B	Conical casing cover with connection for venting
	C	Conical casing cover with vent
21	Shaft seal type	
	V	Single mechanical seal with vented chamber (A-type cover)

Position	Code	Description
22-23	Seal code, single mechanical seal	
	01	QQVGG KSB's choice $\geq -4 - \leq +230$ [°F]
	07	QQEGG DW001 KSB's choice $\geq -22 - \leq +230$ [°F]
	09	U3U3VGG-Y10 EMG13-G6 $\geq -4 - \leq +230$ [°F]
	10	QQXGG KSB's choice $\geq -4 - \leq +230$ [°F]
	11	BQEGG DW001 KSB's choice $\geq -22 - \leq +230$ [°F]
	13	BQVGG KSB's choice $\geq -4 - \leq +230$ [°F]
	22	AQ1EGG (shaft unit 55) M32N69 $\geq -22 - \leq +284$ [°F]
	66	Q7Q7EGG-Y10 DW001 EMG13-G6 $\geq -22 - \leq +248$ [°F]
	76	AQ7EGG-Y10 ERMG13-G6 $\geq -22 - \leq +284$ [°F]
	79	Q7Q7VGG-Y10 EMG13-G6 $\geq -4 - \leq +230$ [°F]
24	Lubrication type	
	W	None
25	Order type	
	S	KSB standard
	C	Extended standard
	X	Special design
26	Shaft unit	
	E	Shaft unit 25
	F	Shaft unit 35
	H	Shaft unit 55
27-28	Motor rating P_N [kW]	
	AF	0.25
	...	...
	GY	55.00
29	Number of motor poles	
	1	10 poles
	2	2 poles
	4	4 poles
	5	14 poles
30	Scope of supply	
	A	Bare-shaft pump (Fig. 0)
	G	Back pull-out unit
	H	Pump, motor
31	Accessories / Automation	
	A	KSB PumpDrive 2
	B	KSB PumpMeter
	C	KSB PumpDrive 2 + KSB PumpMeter
	D	KSB MyFlow
	E	KSB Guard
	H	None
	J	KSB PumpDrive 2 + KSB Guard
	K	KSB PumpMeter + KSB Guard
	L	KSB PumpDrive 2 + KSB PumpMeter + KSB Guard
	M	KSB MyFlow + KSB Guard
	N	KSB PumpDrive 3
	W	KSB PumpDrive 3 + KSB Guard
32	Product generation	
	B	Generation B

Materials

Table 7: Symbols key

Symbol	Description
X	Standard
-	Version not available / not possible

Table 8: Overview of available materials

Part No. (⇒ Page 123)	Description	Material	Material variant		
			GG	GB ²⁾	GC ²⁾
102	Volute casing	Gray cast iron EN-GJL-250 / A 48 Cl. 35B	X	X	X
161	Casing cover, conical	Gray cast iron EN-GJL-250 / A 48 Cl. 35B	X	X	X
210	Shaft	Tempered steel C45+N	X	X	X
		Stainless steel 1.4571 (optional)	X	X	X
230	Impeller	Gray cast iron EN-GJL-250 / A 48 Cl. 35B	X	-	-
		Bronze CC480K-GS / B30 C90700 ²⁾	-	X	-
		Stainless steel 1.4408 / A743 Gr. CF8 M ²⁾	-	-	X
341	Drive lantern	Gray cast iron EN-GJL-250 / A 48 Cl. 35B	X	X	X
400	Sealing elements	DPAF, asbestos-free	X	X	X
502.01	Casing wear ring, suction side	JL / lamellar graphite cast iron	X	X	X
		Bronze CC495K-GS	-	X	-
		Stainless steel (CrNiMo steel)	X	X	X
502.02	Casing wear ring, discharge side	JL / lamellar graphite cast iron	X	X	X
		Bronze CC495K-GS	-	X	-
		Stainless steel (CrNiMo steel)	X	X	X
523	Shaft sleeve	Stainless steel (CrNiMo steel)	X	X	X
902	Studs	Steel 8.8	X	X	X
903	Screw plug	Steel	X	X	X
920	Nut	8+A2A / 8+B633 SC1 TP3	X	X	X
920.95	Impeller nut	Stainless steel (CrNiMo steel)	X	X	X
		Steel 8	X	X	-

Coating and preservation

- Coating and preservation to KSB standard

Product benefits

- Improved efficiency and NPSH_{req} by experimentally verified hydraulic design of impellers (vanes)
- Operating costs reduced by trimming the nominal impeller diameter to match the specified duty point
- Little wear, low vibration levels and excellent smooth running characteristics thanks to good suction performance and virtually cavitation-free operation across a wide operating range

Product information

Product information as per Regulation No. 1907/2006 (REACH)

For information as per European chemicals regulation (EC) No. 1907/2006 (REACH) see <https://www.ksb.com/en-global/company/corporate-responsibility/reach>.

Product information as per Regulation No. 547/2012 (for water pumps with a maximum shaft power of 150 kW) implementing "Ecodesign" Directive 2009/125/EC

- Minimum efficiency index: see data sheet
- The benchmark for the most efficient water pumps is MEI ≥ 0.70.
- Year of construction: see data sheet
- Manufacturer's name or trade mark, commercial registration number and place of manufacture: see data sheet or order documentation

- Product's type and size identifier: See data sheet
- Hydraulic pump efficiency (%) with trimmed impeller: See data sheet.
- Pump performance curves, including efficiency characteristics: see documented characteristic curve
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. Trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information relevant for disassembly, recycling or disposal at end of life: see installation/operating manual
- Information on benchmark efficiency or benchmark efficiency graph for MEI = 0.70 (0.40) for the pump based on the model shown in the Figure are available at: www.europump.org/efficiencycharts

Acceptance tests and warranty

The following acceptance tests may be performed at a surcharge:

- Materials inspection and testing**
 - Test report 2.2
- Final inspection**
 - Inspection certificate 3.1 to EN 10204
- Hydraulic test**
 - The duty point of each pump is guaranteed according to ISO 9906/2B or ISO 9906/3B.
 - NPSH test
- Other inspections/tests on request

² Not available for the US market

Warranties

- Warranties are given within the scope of the valid terms and conditions of sale and delivery.

Overview of product features / selection tables
Overview of variants

Other designs on request

Table 9: Symbols key

Symbol	Description
X	Standard
-	Version not available / not possible

Table 10: Overview of Etaline / Etaline Z variants (SI units)

Design	102 / Volute casing	230 / Impeller	Mechanical seal	T [°C]	Main applications				
					Handling clean or aggressive fluids not chemically and mechanically aggressive to the pump materials	Water supply systems	Cooling circuits	Heating systems	Air-conditioning systems
GG76/GG22	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	SU 25, 35: mech. seal AQ7EGG-Y10 SU 55: mech. seal AQ1EGG	≥ -30 - ≤ +140	-	-	-	X	-
GG10	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Mech. seal QQXGG	≥ -20 - ≤ +110	-	X	-	-	-
GG11	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Mech. seal BQEGG DW001	≥ -30 - ≤ +110	X	X	X ³⁾	-	X ³⁾
GB76/GB22 ⁴⁾	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Bronze CC480K-DW / B30 C90700	SU 25, 35: mech. seal AQ7EGG-Y10 SU 55: mech. seal AQ1EGG	≥ -30 - ≤ +140	-	-	-	X	-
GB10 ⁴⁾	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Bronze CC480K-DW / B30 C90700	Mech. seal QQXGG	≥ -20 - ≤ +110	-	X	-	-	-
GB11 ⁴⁾	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Bronze CC480K-DW / B30 C90700	Mech. seal BQEGG DW001	≥ -30 - ≤ +110	X	X	X ³⁾	-	X ³⁾

Table 11: Overview of Etaline / Etaline Z variants (imperial units)

Design	102 / Volute casing	230 / Impeller	Mechanical seal	T [°F]	Main applications				
					Handling clean or aggressive fluids not chemically and mechanically aggressive to the pump materials	Water supply systems	Cooling circuits	Heating systems	Air-conditioning systems
GG76/GG22	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	SU 25, 35: mech. seal AQ7EGG-Y10 SU 55: mech. seal AQ1EGG	≥ -22 - ≤ +284	-	-	-	X	-
GG10	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Mech. seal QQXGG	≥ -4 - ≤ +230	-	X	-	-	-
GG11	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Mech. seal BQEGG DW001	≥ -22 - ≤ +230	X	X	X ³⁾	-	X ³⁾

³ QQEGG DW001, fluid handled: water, glycol with inhibitors

⁴ Not available for the US market

Design	102 / Volute casing	230 / Impeller	Mechanical seal	T	Main applications				
				[°F]	Handling clean or aggressive fluids not chemically and mechanically aggressive to the pump materials	Water supply systems	Cooling circuits	Heating systems	Air-conditioning systems
GB76/GB22 ⁴⁾	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Bronze CC480K-DW / B30 C90700	SU 25, 35: mech. seal AQ7EGG-Y10 SU 55: mech. seal AQ1EGG	≥ -22 - ≤ +284	-	-	-	✗	-
GB10 ⁴⁾	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Bronze CC480K-DW / B30 C90700	Mech. seal QQXGG	≥ -4 - ≤ +230	-	✗	-	-	-
GB11 ⁴⁾	Gray cast iron EN-GJL-250 / A 48 Cl. 35 B	Bronze CC480K-DW / B30 C90700	Mech. seal BQEGG DW001	≥ -22 - ≤ +230	✗	✗	✗ ³⁾	-	✗ ³⁾

Overview of fluids handled

Table 12: Symbols key

Symbol	Description
✗	Standard
-	Version not available / not possible

Table 13: Excerpt from the overview of fluids handled with associated material variants (SI units)

Fluid handled	T ⁵⁾		Materials			Shaft seal							Notes	
			Casing/impeller			Mechanical seal								
	Minimum	Maximum	Gray cast iron / gray cast iron	Gray cast iron / stain-less steel	Gray cast iron / tin bronze	AQ7EGG-Y10 (SU 25,35)	AQ1EGG (SU 55)	QQEGG DW001	Q7Q7VGG-Y10	QQXGG	BQEGG DW001	Q7Q7EGG-Y10 DW001		
														[°C]
Water														
Service water	-	≤ +110	✗	-	-	-	-	-	-	✗	-	-	CrNiMo cast steel can be used.	
Fire-fighting water ⁷⁾	-	≤ +60	-	-	✗	-	-	-	-	✗	-	-	Consult us for supply to VdS guideline.	
Heating water to VDI 2035	-	≤ +100	✗	-	-	-	-	-	-	✗	✗	-	-	
Hot water ⁸⁾	-	≤ +110	✗	-	-	-	-	-	-	-	✗	-	If used as circulating pump to DIN EN 12953-6: p max. ≤ 13 bar	
Hot water ⁸⁾	-	≤ +140	✗	-	-	✗	✗	-	-	-	-	-	-	
Condensate	-	≤ +110	✗	-	-	-	-	-	-	-	✗	-	-	
Cooling water (without anti-freeze)	-	≤ +60	✗	-	-	-	-	-	-	✗	-	-	Open circuit: GB 10 required	
Cooling water with anti-freeze, pH ≥ 7.5 ⁹⁾	≥ -30	≤ +60	✗	-	-	-	-	-	-	-	-	✗	Open circuit: GB required	
Cooling water with anti-freeze, pH ≥ 7.5 ⁹⁾	≥ +60	≤ +110	✗	-	-	-	-	-	-	-	-	✗	Open circuit: GB required	
Slightly contaminated water	-	≤ +60	✗	-	-	-	-	-	-	✗	-	-	-	
Pure water ¹⁰⁾	-	≤ +60	✗	-	-	-	-	-	-	-	✗	-	-	
Raw water	-	≤ +60	✗	-	-	-	-	-	-	✗	-	-	-	
Swimming pool water (fresh water)	-	≤ +60	✗	-	-	-	-	-	-	✗	-	-	Also applies to requirements as per DIN 19643	
Swimming pool water ¹¹⁾ : filtration	-	≤ +40	-	-	✗	-	-	-	-	✗	-	-	Variant GB: shaft C45+N, shaft sleeve CrNiMo steel, nut A4/AISI 316, key A2, casing wear ring (suction and discharge side) gray cast iron JL 1040/ CI	

5 Fluid temperature

6 Not available for the US market

7 General evaluation criteria for results of water analysis: pH ≥ 7; chlorides content (Cl) ≤ 250 mg/kg. Chlorine (Cl₂) ≤ 0.6 mg/kg

8 Treatment to VdTÜV 1466; additional requirement: O₂ ≤ 0.02 mg/l

9 Anti-freeze on ethylene glycol basis with inhibitors, content: > 20 % to 50 % (e.g. Antifrogen N)

10 No ultra-pure water: conductivity at 25 °C: ≤ 800 µS/cm, neutral with regard to chemical corrosion

11 France: Observe the rules as per ministerial order dated 18 January 2002.

Fluid handled	T ⁵⁾		Materials			Shaft seal							Notes
			Casing/impeller			Mechanical seal							
	Minimum	Maximum	Gray cast iron / gray cast iron	Gray cast iron / stain-less steel	Gray cast iron / tin bronze	AQ7EGG-Y10 (SU 25,35)	AQ1EGG (SU 55)	QQEGG DW001	Q7Q7VGG-Y10	QQXGG	BQEGG DW001	Q7Q7EGG-Y10 DW001	
Swimming pool water ¹¹⁾ : water features; without turbulences and/or air content	-	≤ +40	-	-	✗	-	-	-	-	✗	-	-	Variant GB: shaft C45+N, shaft sleeve CrNiMo steel, nut A4/AISI 316, key A2, casing wear ring (suction side and discharge side) CC495K-GS
Dam water	-	≤ +60	-	-	✗	-	-	-	-	✗	-	-	If solids are contained, consult us.
Drinking water ¹²⁾	-	≤ +60	-	-	✗	-	-	-	-	-	✗	-	-
Partly desalinated water	-	≤ +110	✗	-	-	-	-	-	-	-	✗	-	-
Fully desalinated water as boiler feed water	-	≤ +110	✗	-	-	-	-	-	-	-	✗	-	-
Refrigerants, cooling brines													
Cooling brine; inorganic, pH > 7.5, inhibited	≥ -30	≤ +25	✗	-	-	-	-	-	-	-	-	✗	-
Water with anti-freeze, pH ≥ 7.5	≥ -30	≤ +60	✗	-	-	-	-	-	-	-	✗	-	-
Water with anti-freeze, pH ≥ 7.5	≥ +60	≤ +110	✗	-	-	-	-	✗	-	-	-	-	-
Oils/emulsions													
Drilling emulsion, grinding emulsion	-	≤ +60	✗	-	-	-	-	-	✗	-	-	-	-
Oil-water emulsion	-	≤ +60	✗	-	-	-	-	-	✗	-	-	-	-

Table 14: Excerpt from the overview of fluids handled with associated material variants (imperial units)

Fluid handled	T ⁵⁾		Materials			Shaft seal							Notes	
			Casing/impeller			Mechanical seal								
	Minimum	Maximum	Gray cast iron / gray cast iron	Gray cast iron / stain-less steel	Gray cast iron / tin bronze	AQ7EGG-Y10 (SU 25,35)	AQ1EGG (SU 55)	QQEGG DW001	Q7Q7VGG-Y10	QQXGG	BQEGG DW001	Q7Q7EGG-Y10 DW001		
[°F]		GG	GC ⁶⁾	GB ⁶⁾	76	22	7	79	10	11	66			
Water														
Service water	-	≤ +230	✗	-	-	-	-	-	-	✗	-	-	CrNiMo cast steel can be used.	
Fire-fighting water ¹³⁾	-	≤ +140	-	-	✗	-	-	-	-	✗	-	-	Consult us for supply to VdS guideline.	
Heating water to VDI 2035	-	≤ +212	✗	-	-	-	-	-	-	✗	✗	-	-	
Hot water ⁸⁾	-	≤ +230	✗	-	-	-	-	-	-	-	✗	-	If used as circulating pump to DIN EN 12953-6: p max. ≤ 188.55 psi	
Hot water ⁸⁾	-	≤ +284	✗	-	-	✗	✗	-	-	-	-	-		
Condensate	-	≤ +230	✗	-	-	-	-	-	-	-	✗	-	-	
Cooling water (without anti-freeze)	-	≤ +140	✗	-	-	-	-	-	-	✗	-	-	Open circuit: GB 10 required	
Cooling water with anti-freeze, pH ≥ 7.5 ⁹⁾	≥ -22	≤ +140	✗	-	-	-	-	-	-	-	-	✗	Open circuit: GB required	
Cooling water with anti-freeze, pH ≥ 7.5 ⁹⁾	≥ +140	≤ +230	✗	-	-	-	-	-	-	-	-	✗	Open circuit: GB required	
Slightly contaminated water	-	≤ +140	✗	-	-	-	-	-	-	✗	-	-	-	
Pure water ¹⁴⁾	-	≤ +140	✗	-	-	-	-	-	-	-	✗	-	-	
Raw water	-	≤ +140	✗	-	-	-	-	-	-	✗	-	-	-	
Swimming pool water (fresh water)	-	≤ +140	✗	-	-	-	-	-	-	✗	-	-	Also applies to requirements as per DIN 19643	
Swimming pool water ¹¹⁾ : filtration	-	≤ +104	-	-	✗	-	-	-	-	✗	-	-	Variant GB: shaft C45+N, shaft sleeve CrNiMo steel nut A4/AISI 316, key A2, casing wear ring (suction and discharge side) gray cast iron JL 1040/CI	
Swimming pool water ¹¹⁾ : water features; without turbulences and/or air content	-	≤ +104	-	-	✗	-	-	-	-	✗	-	-	Variant GB: shaft C45+N, shaft sleeve CrNiMo steel nut A4/AISI 316, key A2, casing wear ring (suction side and discharge side) CC495K-GS	
Dam water	-	≤ +140	-	-	✗	-	-	-	-	✗	-	-	If solids are contained, consult us.	
Drinking water ¹²⁾	-	≤ +140	-	-	✗	-	-	-	-	-	✗	-	-	
Partly desalinated water	-	≤ +230	✗	-	-	-	-	-	-	-	✗	-	-	
Fully desalinated water as boiler feed water	-	≤ +230	✗	-	-	-	-	-	-	-	✗	-	-	
Refrigerants, cooling brines														

12 For France, ACS approval is required.

13 General evaluation criteria for results of water analysis: pH ≥ 7, chlorides content (Cl) ≤ 4E-03 oz/lb, chlorine (Cl2) ≤ 9.6E-06 oz/lb

14 No ultra-pure water: conductivity at 77 °F: ≤ 2032 µS/inch, neutral with regard to chemical corrosion

Fluid handled	T ⁵⁾		Materials			Shaft seal							Notes
			Casing/impeller			Mechanical seal							
	Minimum	Maximum	Gray cast iron / gray cast iron	Gray cast iron / stain-less steel	Gray cast iron / tin bronze	AQ7EGG-Y10 (SU 25,35)	AQ1EGG (SU 55)	QQEGG DW001	Q7Q7VGG-Y10	QQXGG	BQEGG DW001	Q7Q7EGG-Y10 DW001	
			[°F]	GG	GC ⁶⁾	GB ⁶⁾	76	22	7	79	10	11	
Cooling brine; inorganic, pH > 7.5, inhibited	≥ -22	≤ +77	✗	-	-	-	-	-	-	-	-	✗	-
Water with anti-freeze, pH ≥ 7.5	≥ -22	≤ +140	✗	-	-	-	-	-	-	-	✗	-	-
Water with anti-freeze, pH ≥ 7.5	≥ +140	≤ +230	✗	-	-	-	-	✗	-	-	-	-	-
Oils/emulsions													
Drilling emulsion, grinding emulsion	-	≤ +140	✗	-	-	-	-	-	✗	-	-	-	-
Oil-water emulsion	-	≤ +140	✗	-	-	-	-	-	✗	-	-	-	-

Pressure limits and temperature limits

Test pressure limits and temperature limits

Table 15: Pressure limits and temperature limits as a function of material variant (SI units)

Material variant	Fluid temperature ¹⁵⁾¹⁶⁾	Test pressure ¹⁷⁾
	[°C]	[bar]
GG, GB ¹⁸⁾ , GC ¹⁸⁾	-30 to +140	≤ 21

Table 16: Pressure limits and temperature limits as a function of material variant (imperial units)

Material variant	Fluid temperature ¹⁵⁾¹⁹⁾	Test pressure ¹⁷⁾
	[°F]	[psi]
GG, GB ¹⁸⁾ , GC ¹⁸⁾	-22 to +284	≤ 304.58

Operating pressure limits and temperature limits

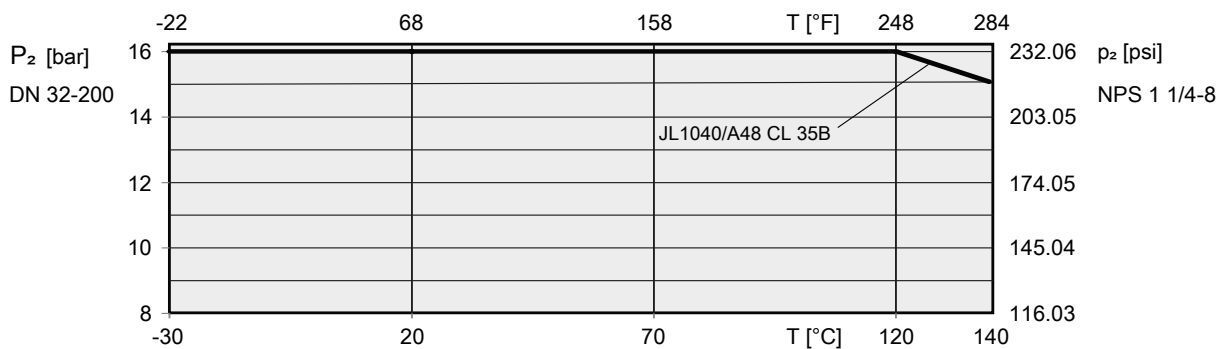


Fig. 1: Operating pressure limits and temperature limits

¹⁵⁾ For hot water heating systems to DIN EN 12953-6, observe the application limits.

¹⁶⁾ For fluid temperatures >140 °C use Etanorm SYT.

¹⁷⁾ The casing components have been checked for leakage by means of internal pressure tests to ZN 1650 with water.

¹⁸⁾ Not available for the US market

¹⁹⁾ For fluid temperatures >284 °F use Etanorm SYT.

Technical data
Pump
Table 17: Technical data of the pump (SI units)

Size	Shaft unit	Impeller				Speed limit	
		Impeller outlet width	Impeller inlet diameter	Nominal impeller diameter		Minimum	Maximum
				Minimum	Maximum		
		[mm]				[rpm]	
032-032-160	WS_25	5.7	52.7	112	170	500	4400
032-032-200	WS_25	5.6	54.0	165	204	500	3800
040-040-160	WS_25	8.5	60.6	136	174	500	3600
040-040-250	WS_25	7.5	62.6	197	261	500	3600
050-050-160	WS_25	13.0	70.0	120	174	500	4400
050-050-250	WS_25	8.4	74.1	198	260	500	3600
065-065-160	WS_25	16.9	86.9	108	174	500	4400
065-065-250	WS_25	10.5	84.0	196	260	500	3600
080-080-160	WS_25	21.0	92.0	132	174	500	3900
080-080-200	WS_25	17.0	99.7	170	219	500	3600
080-080-250	WS_35	15.1	101.0	190	260	500	3600
100-100-125	WS_25	25.8	99.0	124	141	500	3900
100-100-160	WS_25	31.6	124.0	138	174	500	3600
100-100-200	WS_35	24.5	115.0	178	219	500	3600
100-100-250	WS_35	19.0	115.0	215	269	500	3600
125-125-160	WS_35	37.6	135.0	155	185	500	3600
125-125-200	WS_35	32.5	142.0	179	219	500	3600
125-125-250 ²⁰⁾	WS_35	27.0	145.0	210	269	500	3600
150-150-200	WS_35	40.7	159.0	178	224	500	3600
150-150-250	WS_35	37.0	162.4	218	269	500	2000
200-200-250	WS_35	48.8	191.0	220	269	500	1800
200-200-315	WS_55	39.7	191.5	264	334	500	1800

Table 18: Technical data of the pump (imperial units)

Size	Shaft unit	Impeller				Speed limit	
		Impeller outlet width	Impeller inlet diameter	Nominal impeller diameter		Minimum	Maximum
				Minimum	Maximum		
		[inch]				[rpm]	
032-032-160	WS_25	0.22	2.07	4.41	6.69	500	4400
032-032-200	WS_25	0.22	2.13	6.50	8.03	500	3800
040-040-160	WS_25	0.33	2.39	5.35	6.85	500	3600
040-040-250	WS_25	0.30	2.46	7.76	10.28	500	3600
050-050-160	WS_25	0.51	2.76	4.72	6.85	500	4400
050-050-250	WS_25	0.33	2.92	7.80	10.24	500	3600
065-065-160	WS_25	0.67	3.42	4.25	6.85	500	4400
065-065-250	WS_25	0.41	3.31	7.72	10.24	500	3600
080-080-160	WS_25	0.83	3.62	5.20	6.85	500	3900
080-080-200	WS_25	0.67	3.93	6.69	8.62	500	3600
080-080-250	WS_35	0.59	3.98	7.48	10.24	500	3600
100-100-125	WS_25	1.02	3.90	4.88	5.55	500	3900
100-100-160	WS_25	1.24	4.88	5.43	6.85	500	3600
100-100-200	WS_35	0.96	4.53	7.01	8.62	500	3600
100-100-250	WS_35	0.75	4.53	8.46	10.59	500	3600
125-125-160	WS_35	1.48	5.31	6.10	7.28	500	3600
125-125-200	WS_35	1.28	5.59	7.05	8.62	500	3600

²⁰ Not available for the US market

Size	Shaft unit	Impeller				Speed limit	
		Impeller outlet width	Impeller inlet diameter	Nominal impeller diameter		Minimum	Maximum
				Minimum	Maximum		
[inch]						[rpm]	
125-125-250 ²⁰⁾	WS_35	1.06	5.71	8.27	10.59	500	3600
150-150-200	WS_35	1.60	6.26	7.01	8.82	500	3600
150-150-250	WS_35	1.46	6.39	8.58	10.59	500	2000
200-200-250	WS_35	1.92	7.52	8.66	10.59	500	1800
200-200-315	WS 55	1.56	7.54	10.39	13.15	500	1800

Motor (fixed speed version), n = 2900 rpm, n = 3500 rpm
Table 19: 50 Hz / 60 Hz, technical data of the motor, n = 2900 rpm, n = 3500 rpm (fixed speed version) (SI units)

Size	n = 2900 rpm		n = 3500 rpm		Efficiency class	Motor	Weight ²¹⁾
	P _N	I _N	P _N	I _N			[kg]
	[kW]	3~400 V	[kW]	3~400 V			
032-032-160	0.8	1.72	-	-	IE3	80M	39
032-032-160	1.10	2.47	-	-	IE3	080M	41.48
032-032-160	1.50	3.30	1.50	3.30	IE3	090S	45.56
032-032-160	2.20	4.62	2.20	4.70	IE3	090L	48.56
032-032-160	3.00	5.90	3.00	9.10	IE3	100L	57.98
032-032-160	4.00	8.00	4.00	7.60	IE3	112M	66.98
032-032-160	5.50	10.50	5.50	10.00	IE3	132S	95.62
032-032-160	-	-	7.50	13.80	IE3	132S	98.62
032-032-200	3.00	5.90	-	-	IE3	100L	65.37
032-032-200	4.00	8.00	4.00	7.60	IE3	112M	76.78
032-032-200	5.50	10.50	5.50	10.00	IE3	132S	105.42
032-032-200	7.50	14.60	7.50	13.80	IE3	132S	108.42
032-032-200	11.00	22.00	11.00	19.50	IE3	160M	131.63
032-032-200	-	-	15.00	26.30	IE3	160M	144.63
040-040-160	2.20	4.62	-	-	IE3	090L	49.31
040-040-160	3.00	5.90	3.00	9.10	IE3	100L	58.73
040-040-160	4.00	8.00	4.00	7.60	IE3	112M	67.73
040-040-160	5.50	10.50	5.50	10.00	IE3	132S	96.37
040-040-160	7.50	14.60	7.50	13.80	IE3	132S	99.37
040-040-160	-	-	11.00	19.50	IE3	160M	122.57
040-040-250	5.50	10.50	-	-	IE3	132S	112.46
040-040-250	7.50	14.60	-	-	IE3	132S	115.46
040-040-250	11.00	22.00	11.00	19.50	IE3	160M	138.67
040-040-250	15.00	29.40	15.00	26.30	IE3	160M	151.67
040-040-250	18.50	35.60	18.50	32.90	IE3	160L	171.67
040-040-250	22.00	41.20	22.00	38.00	IE3	180M	227.3
040-040-250	30.00	56.50	30.00	55.70	IE3	200L	296.73
040-040-250	-	-	37.00	65.20	IE3	200L	321.73
050-050-160	2.2	4.62	2.2	4.70	IE3	90L	53
050-050-160	3.00	5.90	3.00	9.10	IE3	100L	63.03
050-050-160	4.00	8.00	4.00	7.60	IE3	112M	72.03
050-050-160	5.50	10.50	5.50	10.00	IE3	132S	100.67
050-050-160	7.50	14.60	7.50	13.80	IE3	132S	103.67
050-050-160	11.00	22.00	11.00	19.50	IE3	160M	126.87
050-050-160	-	-	15.00	26.30	IE3	160M	139.87
050-050-250	7.50	14.60	-	-	IE3	132S	112.41
050-050-250	11.00	22.00	11.00	19.50	IE3	160M	141.73
050-050-250	15.00	29.40	15.00	26.30	IE3	160M	154.73
050-050-250	18.50	35.60	18.50	32.90	IE3	160L	174.73
050-050-250	22.00	41.20	22.00	38.00	IE3	180M	230.36

²¹ Refer to the pump data sheet for details.

Size	n = 2900 rpm		n= 3500 rpm		Efficiency class	Motor	Weight ²¹⁾
	P _N	I _N	P _N	I _N			
	[kW]	3~400 V	[kW]	3~400 V			[kg]
050-050-250	30.00	56.50	30.00	55.70	IE3	200L	299.79
050-050-250	37.00	68.70	37.00	65.20	IE3	200L	324.79
065-065-160	3.0	5.90	-	-	IE3	100L	63
065-065-160	4.00	8.00	4.00	7.60	IE3	112M	76.41
065-065-160	5.50	10.50	5.50	10.00	IE3	132S	102.95
065-065-160	7.50	14.60	7.50	13.80	IE3	132S	105.95
065-065-160	11.00	22.00	11.00	19.50	IE3	160M	129.15
065-065-160	15.00	29.40	15.00	26.30	IE3	160M	142.15
065-065-160	18.50	35.60	18.50	32.90	IE3	160L	162.15
065-065-160	-	-	22.00	38.00	IE3	180M	217.78
065-065-250	11.00	22.00	-	-	IE3	160M	133.94
065-065-250	15.00	29.40	15.00	26.30	IE3	160M	158.85
065-065-250	18.50	35.60	18.50	32.90	IE3	160L	178.85
065-065-250	22.00	41.20	22.00	38.00	IE3	180M	234.48
065-065-250	30.00	56.50	30.00	55.70	IE3	200L	303.91
065-065-250	37.00	68.70	37.00	65.20	IE3	200L	328.91
080-080-160	5.50	10.50	-	-	IE3	132S	109.2
080-080-160	7.50	14.60	7.50	13.80	IE3	132S	112.2
080-080-160	11.00	22.00	11.00	19.50	IE3	160M	135.4
080-080-160	15.00	29.40	15.00	32.90	IE3	160M	148.4
080-080-160	18.50	35.60	18.50	32.90	IE3	160L	168.4
080-080-160	22.00	41.20	22.00	38.00	IE3	180M	224.03
080-080-160	-	-	30.00	55.70	IE3	200L	293.46
080-080-160	-	-	37.00	65.20	IE3	200L	303.02
080-080-200	11.00	22.00	-	-	IE3	160M	132.66
080-080-200	15.00	29.40	15.00	26.30	IE3	160M	157.57
080-080-200	18.50	35.60	18.50	32.90	IE3	160L	177.57
080-080-200	22.00	41.20	22.00	38.00	IE3	180M	233.2
080-080-200	30.00	56.50	30.00	55.70	IE3	200L	302.63
080-080-200	37.00	68.70	37.00	65.20	IE3	200L	327.63
100-100-125	5.50	10.50	-	-	IE3	132S	107.29
100-100-125	7.50	14.60	-	-	IE3	132S	116.4
100-100-125	11.00	22.00	11.00	19.50	IE3	160M	139.6
100-100-125	-	-	15.00	26.30	IE3	160M	152.6
100-100-160	11.00	22.00	-	-	IE3	160M	135.02
100-100-160	15.00	29.40	15.00	26.30	IE3	160M	159.93
100-100-160	18.50	35.60	18.50	32.90	IE3	160L	179.93
100-100-160	22.00	41.20	22.00	38.00	IE3	180M	235.56
100-100-160	30.00	56.50	30.00	55.70	IE3	200L	304.99
100-100-160	-	-	37.00	65.20	IE3	200L	329.99
125-125-160	18.50	35.60	-	-	IE3	160L	222.6
125-125-160	22.00	41.20	-	-	IE3	180M	293.59
125-125-160	30.00	56.50	30.00	55.70	IE3	200L	359.33
125-125-160	37.00	68.70	37.00	65.20	IE3	200L	384.33
125-125-160	-	-	45.00	81.60	IE3	225M	435.81
125-125-200	22.00	41.20	-	-	IE3	180M	290.69
125-125-200	30.00	56.50	-	-	IE3	200L	356.43
125-125-200	37.00	68.70	-	-	IE3	200L	381.43
125-125-200	45.00	81.90	-	-	IE3	225M	538.75

Table 20: 50 Hz / 60 Hz, technical data of the motor, n = 2900 rpm, n = 3500 rpm (fixed speed version) (imperial units)

Size	n = 2900 rpm		n = 3500 rpm		Efficiency class	Motor	Weight ²¹⁾
	P _N	I _N	P _N	I _N			
	[hp]	3~400 V	[hp]	3~400 V			[lb]
032-032-160	1.07	1.72	-	-	IE3	80M	85.98
032-032-160	1.48	2.47	-	-	IE3	080M	91.45
032-032-160	2.01	3.3	2.01	3.3	IE3	090S	100.44
032-032-160	2.95	4.62	2.95	4.7	IE3	090L	107.06
032-032-160	4.02	5.9	4.02	9.1	IE3	100L	127.82
032-032-160	5.36	8	5.36	7.6	IE3	112M	147.67
032-032-160	7.38	10.5	7.38	10	IE3	132S	210.81
032-032-160	-	-	10.06	13.8	IE3	132S	217.42
032-032-200	4.02	5.9	-	-	IE3	100L	149.43
032-032-200	5.36	8	5.36	7.6	IE3	112M	169.27
032-032-200	7.38	10.5	7.38	10	IE3	132S	232.41
032-032-200	10.06	14.6	10.06	13.8	IE3	132S	239.02
032-032-200	14.75	22	14.75	19.5	IE3	160M	290.19
032-032-200	-	-	20.12	26.3	IE3	160M	318.85
040-040-160	2.95	4.62	-	-	IE3	090L	108.71
040-040-160	4.02	5.9	4.02	9.1	IE3	100L	129.48
040-040-160	5.36	8	5.36	7.6	IE3	112M	149.32
040-040-160	7.38	10.5	7.38	10	IE3	132S	212.46
040-040-160	10.06	14.6	10.06	13.8	IE3	132S	219.07
040-040-160	-	-	14.75	19.5	IE3	160M	270.22
040-040-250	7.38	10.5	-	-	IE3	132S	247.93
040-040-250	10.06	14.6	-	-	IE3	132S	254.55
040-040-250	14.75	22	14.75	19.5	IE3	160M	305.71
040-040-250	20.12	29.4	20.12	26.3	IE3	160M	334.37
040-040-250	24.81	35.6	24.81	32.9	IE3	160L	378.47
040-040-250	29.50	41.2	29.50	38	IE3	180M	501.11
040-040-250	40.23	56.5	40.23	55.7	IE3	200L	654.18
040-040-250	-	-	49.62	65.2	IE3	200L	709.29
050-050-160	2.95	4.62	2.95	4.7	IE3	90L	116.84
050-050-160	4.02	5.9	4.02	9.1	IE3	100L	138.96
050-050-160	5.36	8	5.36	7.6	IE3	112M	158.80
050-050-160	7.38	10.5	7.38	10	IE3	132S	221.94
050-050-160	10.06	14.6	10.06	13.8	IE3	132S	228.55
050-050-160	14.75	22	14.75	19.5	IE3	160M	279.70
050-050-160	-	-	20.12	26.3	IE3	160M	308.36
050-050-250	10.06	14.6	-	-	IE3	132S	261.29
050-050-250	14.75	22	14.75	19.5	IE3	160M	312.46
050-050-250	20.12	29.4	20.12	26.3	IE3	160M	341.12
050-050-250	24.81	35.6	24.81	32.9	IE3	160L	385.21
050-050-250	29.50	41.2	29.50	38	IE3	180M	507.86
050-050-250	40.23	56.5	40.23	55.7	IE3	200L	660.92
050-050-250	49.62	68.7	49.62	65.2	IE3	200L	716.04
065-065-160	4.02	5.9	-	-	IE3	100L	138.89
065-065-160	5.36	8	5.36	7.6	IE3	112M	168.46
065-065-160	7.38	10.5	7.38	10	IE3	132S	226.97
065-065-160	10.06	14.6	10.06	13.8	IE3	132S	233.58
065-065-160	14.75	22	14.75	19.5	IE3	160M	284.73
065-065-160	20.12	29.4	20.12	26.3	IE3	160M	313.39
065-065-160	24.81	35.6	24.81	32.9	IE3	160L	357.48
065-065-160	-	-	29.50	38	IE3	180M	480.12
065-065-250	14.75	22	-	-	IE3	160M	321.54
065-065-250	20.12	29.4	20.12	26.3	IE3	160M	350.20
065-065-250	24.81	35.6	24.81	32.9	IE3	160L	394.30
065-065-250	29.50	41.2	29.50	38	IE3	180M	516.94

Size	n = 2900 rpm		n = 3500 rpm		Efficiency class	Motor	Weight ²¹⁾
	P _N	I _N	P _N	I _N			
	[hp]	3~400 V	[hp]	3~400 V			[lb]
065-065-250	40.23	56.5	40.23	55.7	IE3	200L	670.01
065-065-250	49.62	68.7	49.62	65.2	IE3	200L	725.12
080-080-160	7.38	10.5	-	-	IE3	132S	240.74
080-080-160	10.06	14.6	10.06	13.8	IE3	132S	247.36
080-080-160	14.75	22	14.75	19.5	IE3	160M	298.51
080-080-160	20.12	29.4	20.12	32.9	IE3	160M	327.17
080-080-160	24.81	35.6	24.81	32.9	IE3	160L	371.26
080-080-160	29.50	41.2	29.50	38	IE3	180M	493.90
080-080-160	-	-	40.23	55.7	IE3	200L	646.97
080-080-160	-	-	49.62	65.2	IE3	200L	668.04
080-080-200	14.75	22	-	-	IE3	160M	318.72
080-080-200	20.12	29.4	20.12	26.3	IE3	160M	347.38
080-080-200	24.81	35.6	24.81	32.9	IE3	160L	391.47
080-080-200	29.50	41.2	29.50	38	IE3	180M	514.12
080-080-200	40.23	56.5	40.23	55.7	IE3	200L	667.18
080-080-200	49.62	68.7	49.62	65.2	IE3	200L	722.30
100-100-125	7.38	10.5	-	-	IE3	132S	250.00
100-100-125	10.06	14.6	-	-	IE3	132S	256.62
100-100-125	14.75	22	14.75	19.5	IE3	160M	307.76
100-100-125	-	-	20.12	26.3	IE3	160M	336.43
100-100-160	14.75	22	-	-	IE3	160M	323.92
100-100-160	20.12	29.4	20.12	26.3	IE3	160M	352.58
100-100-160	24.81	35.6	24.81	32.9	IE3	160L	396.68
100-100-160	29.50	41.2	29.50	38	IE3	180M	519.32
100-100-160	40.23	56.5	40.23	55.7	IE3	200L	672.39
100-100-160	-	-	49.62	65.2	IE3	200L	727.50
125-125-160	24.81	35.6	-	-	IE3	160L	524.66
125-125-160	29.50	41.2	-	-	IE3	180M	647.25
125-125-160	40.23	56.5	40.23	55.7	IE3	200L	792.19
125-125-160	49.62	68.7	49.62	65.2	IE3	200L	847.30
125-125-160	-	-	60.35	81.6	IE3	225M	960.80
125-125-200	29.50	41.2	-	-	IE3	180M	640.86
125-125-200	40.23	56.5	-	-	IE3	200L	785.79
125-125-200	49.62	68.7	-	-	IE3	200L	840.91
125-125-200	60.35	81.9	-	-	IE3	225M	1221.65

Motor (fixed speed version), n = 1450 rpm, n = 1750 rpm
Table 21: 50 Hz / 60 Hz, technical data of the motor, n = 1450 rpm, n = 1750 rpm (fixed speed version) (SI units)

Size	n = 1450 rpm		n = 1750 rpm		Efficiency class	Motor	Weight ²²⁾
	P _N	I _N ²²⁾	P _N	I _N ²²⁾			
	[kW]	3~400 V [A]	[kW]	3~460 V [A]			[kg]
032-032-160	0.25 ²³⁾	23)	23)	23)	IE3	071M	28.68
032-032-160	0.37 ²³⁾	23)	23)	23)	IE3	071M	29.88
032-032-160	0.55 ²³⁾	23)	23)	23)	IE3	080M	43.68
032-032-160	0.75	1.93	23)	23)	IE3	080M	42.48
032-032-160	-	-	23)	23)	IE3	090S	50.56
032-032-200	0.37 ²³⁾	23)	-	-	IE3	071M	40.48
032-032-200	0.55 ²³⁾	23)	23)	23)	IE3	080M	53.49
032-032-200	0.75	1.93	23)	23)	IE3	080M	52.29

22 Refer to the pump data sheet for details.

23 Motor to KSB's choice not available; other motors are possible.

Size	n = 1450 rpm		n = 1750 rpm		Efficiency class	Motor	Weight ⁽²²⁾
	P _N	I _N ⁽²²⁾	P _N	I _N ⁽²²⁾			
		3~400 V		3~460 V			
	[kW]	[A]	[kW]	[A]			[kg]
032-032-200	1.10	2.60	23)	23)	IE3	090S	60.37
032-032-200	-	-	1.50	3.50	IE3	090L	59.37
032-032-200	-	-	23)	23)	IE3	100L	72.78
040-040-160	0.37 ⁽²³⁾	23)	23)	23)	IE3	071M	31.43
040-040-160	0.55 ⁽²³⁾	23)	23)	23)	IE3	080M	44.43
040-040-160	0.75	1.93	23)	23)	IE3	080M	43.23
040-040-160	1.10	2.60	23)	23)	IE3	090S	51.31
040-040-160	-	-	1.50	3.50	IE3	090L	50.31
040-040-250	0.75	1.93	-	-	IE3	080M	61.43
040-040-250	1.10	2.60	23)	23)	IE3	090S	69.51
040-040-250	1.50	3.47	1.50	3.50	IE3	090L	68.51
040-040-250	2.20	4.80	23)	23)	IE3	100L	81.92
040-040-250	3.00	6.20	3.00	9.70	IE3	100L	81.92
040-040-250	4.00	8.60	4.00	8.50	IE3	112M	90.92
040-040-250	-	-	23)	23)	IE3	132S	119.46
050-050-160	0.37 ⁽²³⁾	23)	-	-	IE3	071M	35.73
050-050-160	0.55 ⁽²³⁾	23)	23)	23)	IE3	080M	48.73
050-050-160	0.75	1.93	23)	23)	IE3	080M	47.53
050-050-160	1.10	2.60	23)	23)	IE3	090S	55.61
050-050-160	1.50	3.47	1.50	3.50	IE3	090L	54.61
050-050-160	-	-	23)	23)	IE3	100L	68.03
050-050-250	1.10	2.64	-	-	IE3	090S	68.06
050-050-250	1.50	3.47	-	-	IE3	090L	71.57
050-050-250	2.20	4.80	23)	23)	IE3	100L	84.98
050-050-250	3.00	6.20	3.00	9.70	IE3	100L	84.98
050-050-250	4.00	8.60	4.00	8.50	IE3	112M	93.98
050-050-250	5.50	11.00	23)	23)	IE3	132S	122.52
050-050-250	-	-	23)	23)	IE3	132M	123.52
065-065-160	0.37 ⁽²³⁾	23)	-	-	IE3	80M	37.4
065-065-160	0.55 ⁽²³⁾	23)	23)	23)	IE3	080M	53.11
065-065-160	0.75	1.93	23)	23)	IE3	080M	51.91
065-065-160	1.10	2.60	23)	23)	IE3	090S	59.99
065-065-160	1.50	3.47	1.50	3.50	IE3	090L	58.99
065-065-160	2.20	4.80	23)	23)	IE3	100L	72.41
065-065-160	-	-	3.00	9.70	IE3	100L	72.41
065-065-250	1.50	3.47	-	-	IE3	090L	75.69
065-065-250	2.20	4.80	23)	23)	IE3	100L	89.1
065-065-250	3.00	6.20	3.00	9.70	IE3	100L	89.1
065-065-250	4.00	8.60	4.00	8.50	IE3	112M	98.1
065-065-250	5.50	11.00	23)	23)	IE3	132S	126.64
065-065-250	7.50	15.00	23)	23)	IE3	132M	127.64
065-065-250	-	-	11.00	22.60	IE3	160M	158.85
080-080-160	0.55 ⁽²³⁾	23)	-	-	IE3	080M	54.85
080-080-160	0.75	1.93	-	-	IE3	080M	59.76
080-080-160	1.10	2.60	23)	23)	IE3	090S	67.84
080-080-160	1.50	3.47	1.50	3.50	IE3	090L	66.84
080-080-160	2.20	4.80	23)	23)	IE3	100L	80.26
080-080-160	3.00	6.20	3.00	9.70	IE3	100L	80.26
080-080-160	-	-	4.00	8.50	IE3	112M	89.26
080-080-200	1.10	2.64	-	-	IE3	090S	70.9
080-080-200	1.50	3.47	-	-	IE3	090L	74.41

Size	n = 1450 rpm		n = 1750 rpm		Efficiency class	Motor	Weight ²²⁾
	P _N	I _N ²²⁾	P _N	I _N ²²⁾			
		3~400 V		3~460 V			
	[kW]	[A]	[kW]	[A]			[kg]
080-080-200	2.20	4.80	23)	23)	IE3	100L	87.82
080-080-200	3.00	6.20	3.00	9.70	IE3	100L	87.82
080-080-200	4.00	8.60	4.00	8.50	IE3	112M	96.82
080-080-200	5.50	11.00	23)	23)	IE3	132S	125.36
080-080-200	-	-	23)	23)	IE3	132M	126.36
080-080-250	2.20	4.80	-	-	IE3	100L	109.48
080-080-250	3.00	6.20	3.00	9.70	IE3	100L	109.48
080-080-250	4.00	8.60	4.00	8.50	IE3	112M	118.48
080-080-250	5.50	11.00	23)	23)	IE3	132S	144.9
080-080-250	7.50	15.00	23)	23)	IE3	132M	145.9
080-080-250	11.00	22.80	11.00	22.60	IE3	160M	177.12
080-080-250	-	-	15.00	30.80	IE3	160L	207.12
100-100-125	0.75	1.93	-	-	IE3	080M	62.36
100-100-125	1.10	2.60	23)	23)	IE3	090S	70.44
100-100-125	1.50	3.47	1.50	3.50	IE3	090L	69.44
100-100-125	-	-	23)	23)	IE3	100L	82.86
100-100-160	1.50	3.47	-	-	IE3	090L	76.77
100-100-160	2.20	4.80	23)	23)	IE3	100L	90.19
100-100-160	3.00	6.20	3.00	9.70	IE3	100L	90.19
100-100-160	4.00	8.60	4.00	8.50	IE3	112M	99.19
100-100-160	-	-	23)	23)	IE3	132S	127.73
100-100-200	2.20	4.80	-	-	IE3	100L	123.65
100-100-200	3.00	6.20	3.00	9.70	IE3	100L	123.65
100-100-200	4.00	8.60	4.00	8.50	IE3	112M	132.65
100-100-200	5.50	11.00	23)	23)	IE3	132S	159.07
100-100-200	7.50	15.00	23)	23)	IE3	132M	160.07
100-100-200	-	-	11.00	22.60	IE3	160M	191.29
100-100-250	3.00	6.20	-	-	IE3	100L	142.02
100-100-250	4.00	8.60	-	-	IE3	112M	151.02
100-100-250	5.50	11.00	23)	23)	IE3	132S	177.44
100-100-250	7.50	15.00	23)	23)	IE3	132M	178.44
100-100-250	11.00	22.80	11.00	22.60	IE3	160M	203.86
100-100-250	15.00	30.10	15.00	30.80	IE3	160L	233.86
100-100-250	-	-	18.50	35.00	IE3	180M	284.47
125-125-160	2.20	4.80	-	-	IE3	100L	128.37
125-125-160	3.00	6.20	3.00	9.70	IE3	100L	155.64
125-125-160	4.00	8.60	4.00	8.50	IE3	112M	164.64
125-125-160	5.50	11.00	23)	23)	IE3	132S	191.06
125-125-160	-	-	23)	23)	IE3	132M	192.06
125-125-200	3.00	6.20	-	-	IE3	100L	152.74
125-125-200	4.00	8.60	-	-	IE3	112M	161.74
125-125-200	5.50	11.00	23)	23)	IE3	132S	188.16
125-125-200	7.50	15.00	23)	23)	IE3	132M	189.16
125-125-200	11.00	22.80	11.00	22.60	IE3	160M	215.08
125-125-200	-	-	15.00	30.80	IE3	160L	245.08
125-125-250 ²⁴⁾	5.50	11.00	-	-	IE3	132S	200.93
125-125-250 ²⁴⁾	7.50	15.00	23)	23)	IE3	132M	201.93
125-125-250 ²⁴⁾	11.00	22.80	11.00	22.60	IE3	160M	227.85
125-125-250 ²⁴⁾	15.00	30.10	15.00	30.80	IE3	160L	257.85
125-125-250 ²⁴⁾	-	-	18.50	35.00	IE3	180M	308.46

²⁴ Not available for the US market

Size	n = 1450 rpm		n = 1750 rpm		Efficiency class	Motor	Weight ⁽²²⁾
	P _N	I _N ⁽²²⁾	P _N	I _N ⁽²²⁾			
		3~400 V		3~460 V			
	[kW]	[A]	[kW]	[A]			[kg]
125-125-250 ⁽²⁴⁾	-	-	22.00	41.30	IE3	180L	318.46
150-150-200	5.50	11.00	-	-	IE3	132S	219.96
150-150-200	7.50	15.00	⁽²³⁾	⁽²³⁾	IE3	132M	220.96
150-150-200	11.00	22.80	11.00	22.60	IE3	160M	246.88
150-150-200	15.00	30.10	15.00	30.80	IE3	160L	276.88
150-150-200	-	-	18.50	35.00	IE3	180M	327.49
150-150-250	7.50	15.00	-	-	IE3	132M	235.94
150-150-250	11.00	22.80	11.00	22.60	IE3	160M	261.86
150-150-250	15.00	30.10	15.00	30.80	IE3	160L	291.86
150-150-250	18.50	36.80	18.50	35.00	IE3	180M	342.47
150-150-250	22.00	43.10	22.00	41.30	IE3	180L	352.47
150-150-250	-	-	30.00	55.80	IE3	200L	418.21
150-150-250	-	-	37.00	69.30	IE3	225S	578.91
200-200-250	11.00	22.80	-	-	IE3	160M	285.87
200-200-250	15.00	30.10	-	-	IE3	160L	348.1
200-200-250	18.50	36.80	18.50	35.00	IE3	180M	398.71
200-200-250	22.00	43.10	22.00	41.30	IE3	180L	408.71
200-200-250	30.00	59.20	30.00	55.80	IE3	200L	474.45
200-200-250	37.00	70.10	37.00	69.30	IE3	225S	635.15
200-200-250	-	-	45.00	86.90	IE3	225M	663.15
200-200-315	22.00	43.10	-	-	IE3	180L	428.08
200-200-315	30.00	59.20	30.00	55.80	IE3	200L	493.23
200-200-315	37.00	70.10	37.00	69.30	IE3	225S	651.85
200-200-315	45.00	85.00	45.00	86.90	IE3	225M	679.85
200-200-315	55.00	103.60	55.00	102.00	IE3	250M	775.41

Table 22: 50 Hz / 60 Hz, technical data of the motor, n = 1450 rpm, n = 1750 rpm (fixed speed version) (imperial units)

Size	n = 1450 rpm		n = 1750 rpm		Efficiency class	Motor	Weight ⁽²²⁾
	P _N	I _N ⁽²²⁾	P _N	I _N ⁽²²⁾			
		3~400 V		3~460 V			
	[hp]	[A]	[hp]	[A]			[lb]
032-032-160	0.34 ⁽²³⁾	⁽²³⁾	⁽²³⁾	⁽²³⁾	IE3	071M	63.23
032-032-160	0.50 ⁽²³⁾	⁽²³⁾	⁽²³⁾	⁽²³⁾	IE3	071M	65.87
032-032-160	0.74 ⁽²³⁾	⁽²³⁾	⁽²³⁾	⁽²³⁾	IE3	080M	96.30
032-032-160	1.01	1.93	⁽²³⁾	⁽²³⁾	IE3	080M	93.65
032-032-160	-	-	⁽²³⁾	⁽²³⁾	IE3	090S	111.47
032-032-200	0.50 ⁽²³⁾	⁽²³⁾	-	-	IE3	071M	86.00
032-032-200	0.74 ⁽²³⁾	⁽²³⁾	⁽²³⁾	⁽²³⁾	IE3	080M	117.93
032-032-200	1.01	1.93	⁽²³⁾	⁽²³⁾	IE3	080M	115.28
032-032-200	1.48	2.6	⁽²³⁾	⁽²³⁾	IE3	090S	133.09
032-032-200	-	-	2.01	3.5	IE3	090L	130.89
032-032-200	-	-	⁽²³⁾	⁽²³⁾	IE3	100L	160.45
040-040-160	0.50 ⁽²³⁾	⁽²³⁾	⁽²³⁾	⁽²³⁾	IE3	071M	67.02
040-040-160	0.74 ⁽²³⁾	⁽²³⁾	⁽²³⁾	⁽²³⁾	IE3	080M	97.95
040-040-160	1.01	1.93	⁽²³⁾	⁽²³⁾	IE3	080M	95.31
040-040-160	1.48	2.6	⁽²³⁾	⁽²³⁾	IE3	090S	113.12
040-040-160	-	-	2.01	3.5	IE3	090L	110.91
040-040-250	1.01	1.93	-	-	IE3	080M	135.43
040-040-250	1.48	2.6	⁽²³⁾	⁽²³⁾	IE3	090S	153.24
040-040-250	2.01	3.47	2.01	3.5	IE3	090L	151.04
040-040-250	2.95	4.8	⁽²³⁾	⁽²³⁾	IE3	100L	180.60
040-040-250	4.02	6.2	4.02	9.7	IE3	100L	180.60

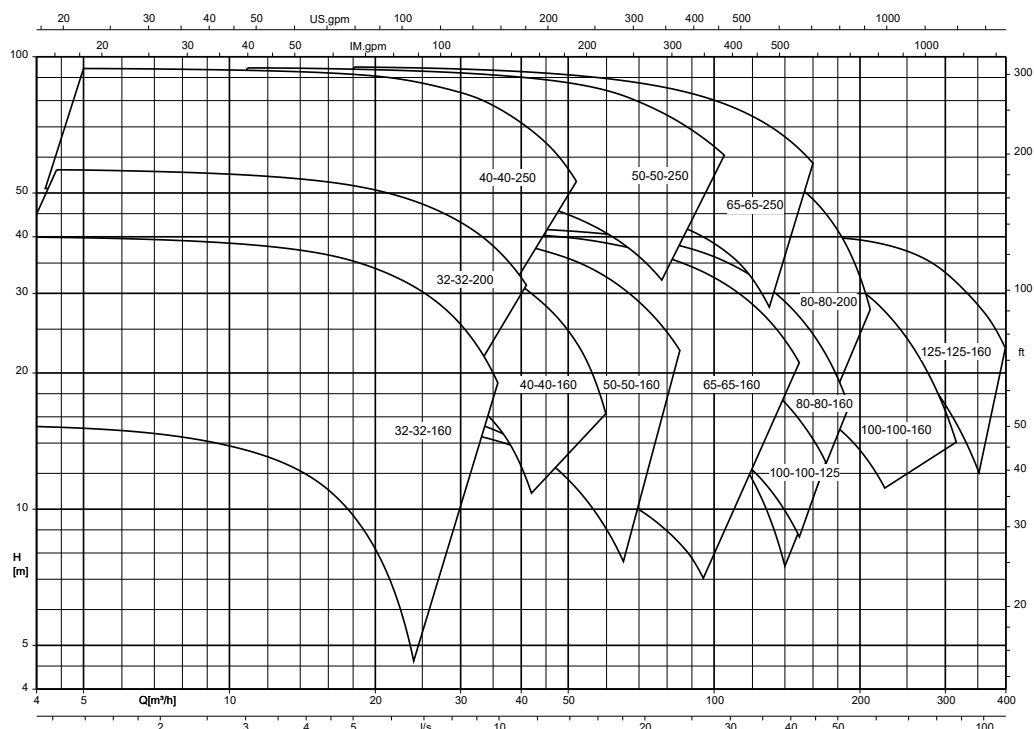
Size	n = 1450 rpm		n = 1750 rpm		Efficiency class	Motor	Weight ⁽²²⁾
	P _N	I _N ⁽²²⁾	P _N	I _N ⁽²²⁾			
		3~400 V		3~460 V			
	[hp]	[A]	[hp]	[A]			[lb]
040-040-250	5.36	8.6	5.36	8.5	IE3	112M	200.44
040-040-250	-	-	23)	23)	IE3	132S	263.36
050-050-160	0.50 ⁽²³⁾	23)	-	-	IE3	071M	76.48
050-050-160	0.74 ⁽²³⁾	23)	23)	23)	IE3	080M	107.43
050-050-160	1.01	1.93	23)	23)	IE3	080M	104.79
050-050-160	1.48	2.6	23)	23)	IE3	090S	122.60
050-050-160	2.01	3.47	2.01	3.5	IE3	090L	120.39
050-050-160	-	-	23)	23)	IE3	100L	149.98
050-050-250	1.48	2.64	-	-	IE3	090S	159.99
050-050-250	2.01	3.47	-	-	IE3	090L	157.78
050-050-250	2.95	4.8	23)	23)	IE3	100L	187.35
050-050-250	4.02	6.2	4.02	9.7	IE3	100L	187.35
050-050-250	5.36	8.6	5.36	8.5	IE3	112M	207.19
050-050-250	7.38	11	23)	23)	IE3	132S	270.11
050-050-250	-	-	23)	23)	IE3	132M	272.31
065-065-160	0.50 ⁽²³⁾	23)	-	-	IE3	80M	82.45
065-065-160	0.74 ⁽²³⁾	23)	23)	23)	IE3	080M	117.09
065-065-160	1.01	1.93	23)	23)	IE3	080M	114.44
065-065-160	1.48	2.6	23)	23)	IE3	090S	132.26
065-065-160	2.01	3.47	2.01	3.5	IE3	090L	130.05
065-065-160	2.95	4.8	23)	23)	IE3	100L	159.64
065-065-160	-	-	4.02	9.7	IE3	100L	159.64
065-065-250	2.01	3.47	-	-	IE3	090L	166.87
065-065-250	2.95	4.8	23)	23)	IE3	100L	196.43
065-065-250	4.02	6.2	4.02	9.7	IE3	100L	196.43
065-065-250	5.36	8.6	5.36	8.5	IE3	112M	216.27
065-065-250	7.38	11	23)	23)	IE3	132S	279.19
065-065-250	10.06	15	23)	23)	IE3	132M	281.40
065-065-250	-	-	14.75	22.6	IE3	160M	350.20
080-080-160	0.74 ⁽²³⁾	23)	-	-	IE3	080M	134.39
080-080-160	1.01	1.93	-	-	IE3	080M	131.75
080-080-160	1.48	2.6	23)	23)	IE3	090S	149.56
080-080-160	2.01	3.47	2.01	3.5	IE3	090L	147.36
080-080-160	2.95	4.8	23)	23)	IE3	100L	176.94
080-080-160	4.02	6.2	4.02	9.7	IE3	100L	176.94
080-080-160	-	-	5.36	8.5	IE3	112M	196.78
080-080-200	1.48	2.64	-	-	IE3	090S	166.25
080-080-200	2.01	3.47	-	-	IE3	090L	164.05
080-080-200	2.95	4.8	23)	23)	IE3	100L	193.61
080-080-200	4.02	6.2	4.02	9.7	IE3	100L	193.61
080-080-200	5.36	8.6	5.36	8.5	IE3	112M	213.45
080-080-200	7.38	11	23)	23)	IE3	132S	276.37
080-080-200	-	-	23)	23)	IE3	132M	278.58
080-080-250	2.95	4.8	-	-	IE3	100L	241.36
080-080-250	4.02	6.2	4.02	9.7	IE3	100L	241.36
080-080-250	5.36	8.6	5.36	8.5	IE3	112M	261.20
080-080-250	7.38	11	23)	23)	IE3	132S	319.45
080-080-250	10.06	15	23)	23)	IE3	132M	321.65
080-080-250	14.75	22.8	14.75	22.6	IE3	160M	390.48
080-080-250	-	-	20.12	30.8	IE3	160L	456.62
100-100-125	1.01	1.93	-	-	IE3	080M	137.48

Size	n = 1450 rpm		n = 1750 rpm		Efficiency class	Motor	Weight ⁽²²⁾
	P _N	I _N ⁽²²⁾	P _N	I _N ⁽²²⁾			
		3~400 V		3~460 V			
	[hp]	[A]	[hp]	[A]			[lb]
100-100-125	1.48	2.6	23)	23)	IE3	090S	155.29
100-100-125	2.01	3.47	2.01	3.5	IE3	090L	153.09
100-100-125	-	-	23)	23)	IE3	100L	182.67
100-100-160	2.01	3.47	-	-	IE3	090L	169.25
100-100-160	2.95	4.8	23)	23)	IE3	100L	198.83
100-100-160	4.02	6.2	4.02	9.7	IE3	100L	198.83
100-100-160	5.36	8.6	5.36	8.5	IE3	112M	218.68
100-100-160	-	-	23)	23)	IE3	132S	281.60
100-100-200	2.95	4.8	-	-	IE3	100L	272.60
100-100-200	4.02	6.2	4.02	9.7	IE3	100L	272.60
100-100-200	5.36	8.6	5.36	8.5	IE3	112M	292.44
100-100-200	7.38	11	23)	23)	IE3	132S	350.69
100-100-200	10.06	15	23)	23)	IE3	132M	352.89
100-100-200	-	-	14.75	22.6	IE3	160M	421.72
100-100-250	4.02	6.2	-	-	IE3	100L	313.10
100-100-250	5.36	8.6	-	-	IE3	112M	332.94
100-100-250	7.38	11	23)	23)	IE3	132S	391.19
100-100-250	10.06	15	23)	23)	IE3	132M	393.39
100-100-250	14.75	22.8	14.75	22.6	IE3	160M	449.43
100-100-250	20.12	30.1	20.12	30.8	IE3	160L	515.57
100-100-250	-	-	24.81	35	IE3	180M	627.15
125-125-160	2.95	4.8	-	-	IE3	100L	283.01
125-125-160	4.02	6.2	4.02	9.7	IE3	100L	343.13
125-125-160	5.36	8.6	5.36	8.5	IE3	112M	362.97
125-125-160	7.38	11	23)	23)	IE3	132S	421.21
125-125-160	-	-	23)	23)	IE3	132M	423.42
125-125-200	4.02	6.2	-	-	IE3	100L	336.73
125-125-200	5.36	8.6	-	-	IE3	112M	356.58
125-125-200	7.38	11	23)	23)	IE3	132S	414.82
125-125-200	10.06	15	23)	23)	IE3	132M	417.03
125-125-200	14.75	22.8	14.75	22.6	IE3	160M	474.17
125-125-200	-	-	20.12	30.8	IE3	160L	540.31
125-125-250 ⁽²⁴⁾	7.38	11	-	-	IE3	132S	442.97
125-125-250 ⁽²⁴⁾	10.06	15	23)	23)	IE3	132M	445.18
125-125-250 ⁽²⁴⁾	14.75	22.8	14.75	22.6	IE3	160M	502.32
125-125-250 ⁽²⁴⁾	20.12	30.1	20.12	30.8	IE3	160L	568.46
125-125-250 ⁽²⁴⁾	-	-	24.81	35	IE3	180M	680.04
125-125-250 ⁽²⁴⁾	-	-	29.50	41.3	IE3	180L	702.08
150-150-200	7.38	11	-	-	IE3	132S	484.93
150-150-200	10.06	15	23)	23)	IE3	132M	487.13
150-150-200	14.75	22.8	14.75	22.6	IE3	160M	544.28
150-150-200	20.12	30.1	20.12	30.8	IE3	160L	610.42
150-150-200	-	-	24.81	35	IE3	180M	721.99
150-150-250	10.06	15	-	-	IE3	132M	520.16
150-150-250	14.75	22.8	14.75	22.6	IE3	160M	577.30
150-150-250	20.12	30.1	20.12	30.8	IE3	160L	643.44
150-150-250	24.81	36.8	24.81	35	IE3	180M	755.02
150-150-250	29.50	43.1	29.50	41.3	IE3	180L	777.06
150-150-250	-	-	40.23	55.8	IE3	200L	921.99
150-150-250	-	-	49.62	69.3	IE3	225S	1276.28
200-200-250	14.75	22.8	-	-	IE3	160M	630.23
200-200-250	20.12	30.1	-	-	IE3	160L	767.43

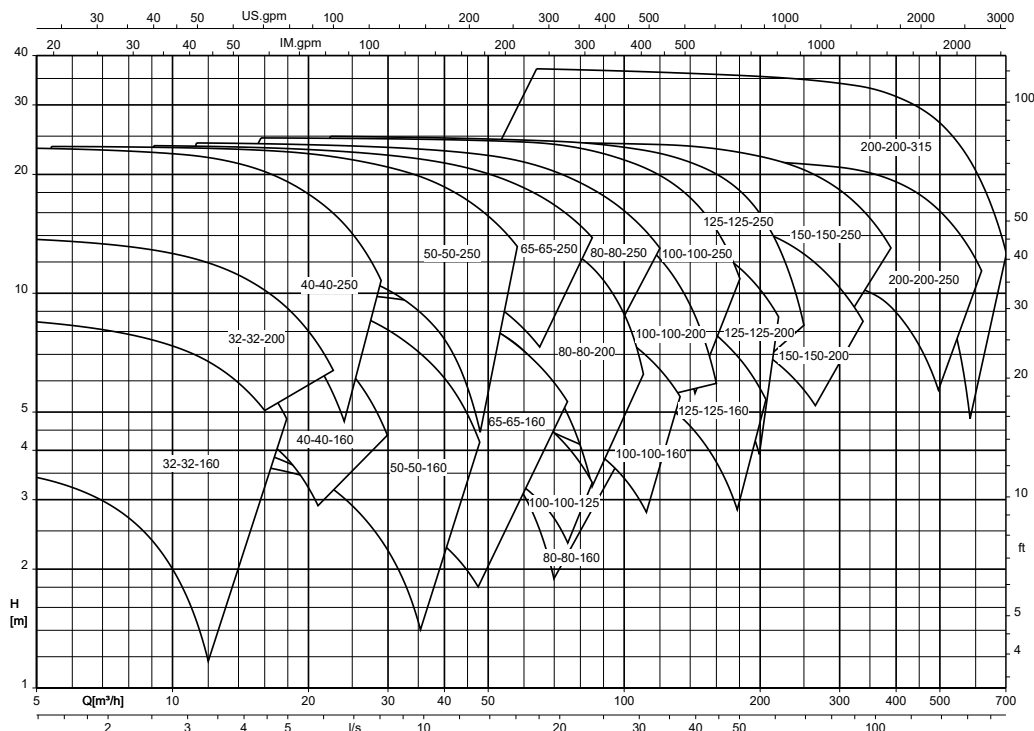
Size	n = 1450 rpm		n = 1750 rpm		Efficiency class	Motor	Weight ²²⁾
	P _N	I _N ²²⁾	P _N	I _N ²²⁾			
		3~400 V		3~460 V			
	[hp]	[A]	[hp]	[A]			[lb]
200-200-250	24.81	36.8	24.81	35	IE3	180M	879.00
200-200-250	29.50	43.1	29.50	41.3	IE3	180L	901.05
200-200-250	40.23	59.2	40.23	55.8	IE3	200L	1045.98
200-200-250	49.62	70.1	49.62	69.3	IE3	225S	1400.26
200-200-250	-	-	60.35	86.9	IE3	225M	1461.99
200-200-315	29.50	43.1	-	-	IE3	180L	943.75
200-200-315	40.23	59.2	40.23	55.8	IE3	200L	1125.86
200-200-315	49.62	70.1	49.62	69.3	IE3	225S	1475.55
200-200-315	60.35	85	60.35	86.9	IE3	225M	1537.28
200-200-315	73.76	103.6	73.76	102	IE3	250M	1747.96

Selection charts

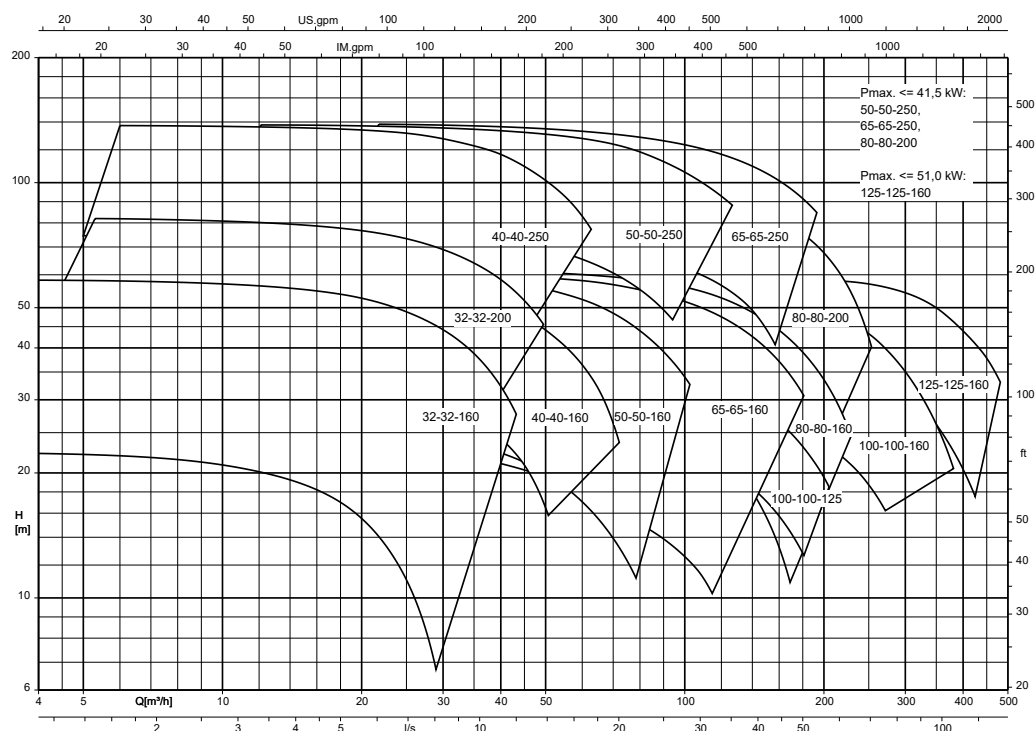
Etaline (fixed speed version), $n = 2900$ rpm



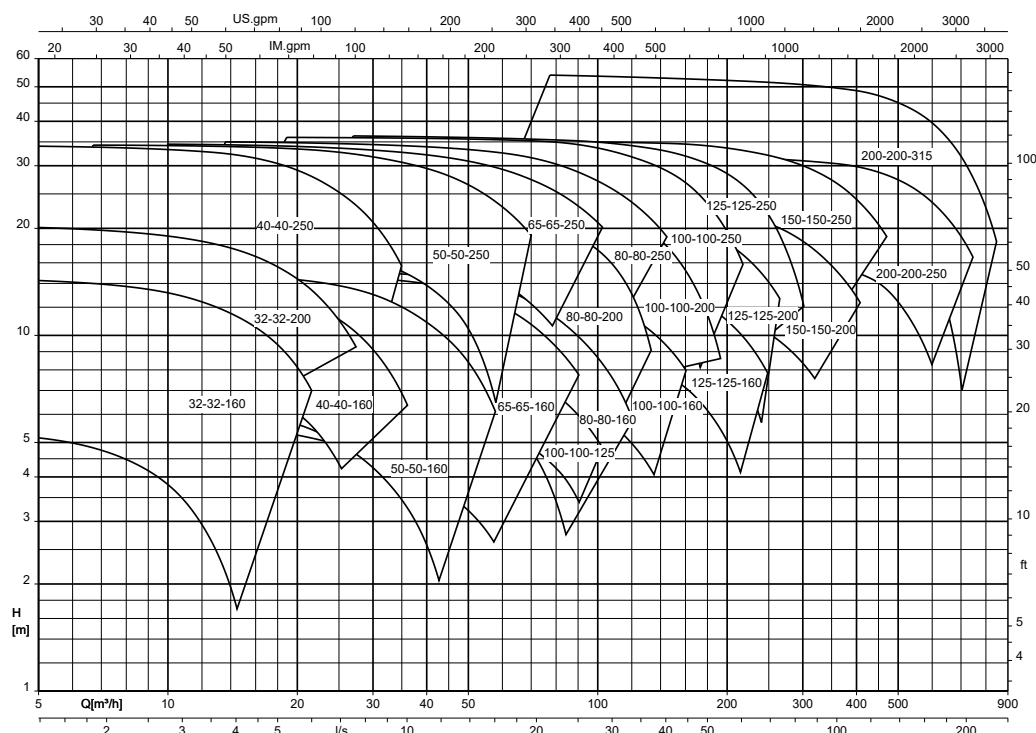
Etaline (fixed speed version), $n = 1450$ rpm



Etaline (fixed speed version), n = 3500 rpm



Etaline (fixed speed version), n = 1750 rpm



Characteristic curves

General

Acceptance grade

Characteristic curves to ISO 9906 Class 3B

NPSH values

The NPSH values indicated in the characteristic curves correspond to a head drop of 3 %.

NPSH values in low-flow conditions

NPSH values for flow rates below $Q = 0.3 \times Q_{opt}$ can only be measured with intense technical efforts. Evidence of NPSH values in the low-flow range cannot be provided.

Density of fluid handled (SI units)

The indicated heads and performance data apply to fluids handled with a density $\rho = 1.0 \text{ kg/dm}^3$ and a kinematic viscosity ν of up to

20 mm²/s. If the density $\neq 1.0$, the performance data must be multiplied by ρ . For viscosities $> 20 \text{ mm}^2/\text{s}$ the corresponding data for cold water has to be calculated and the impact on the pump's performance has to be determined.

Density of fluid handled (imperial units)

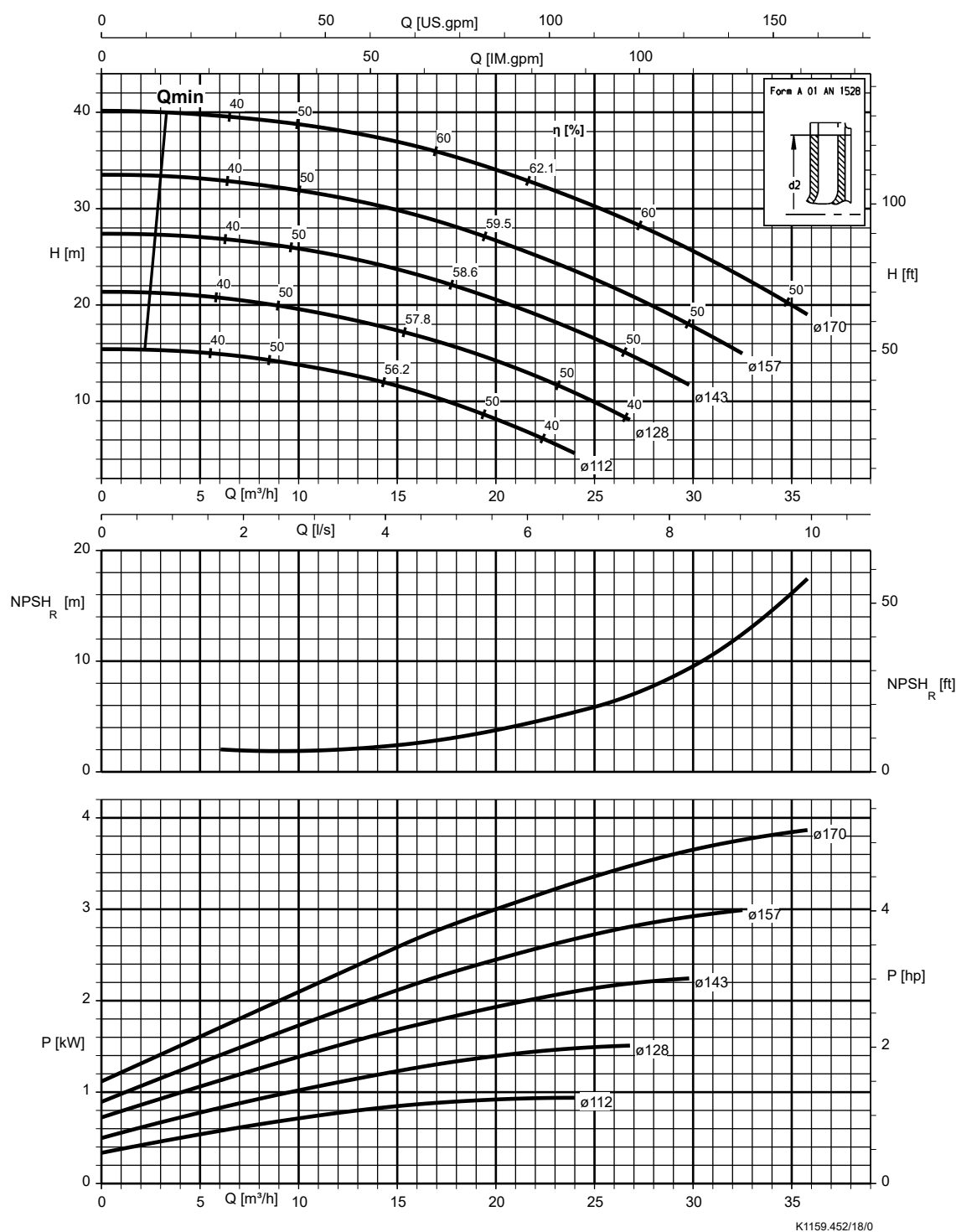
The indicated heads and performance data apply to fluids handled with a density $\rho = 62.43 \text{ lb/ft}^3$ and a kinematic viscosity ν of up to 20 cSt. If the density $\neq 1.0$, the performance data must be multiplied by ρ . For viscosities $> 20 \text{ cSt}$ the corresponding data for cold water has to be calculated and the impact on the pump's performance has to be determined.

Correction factors

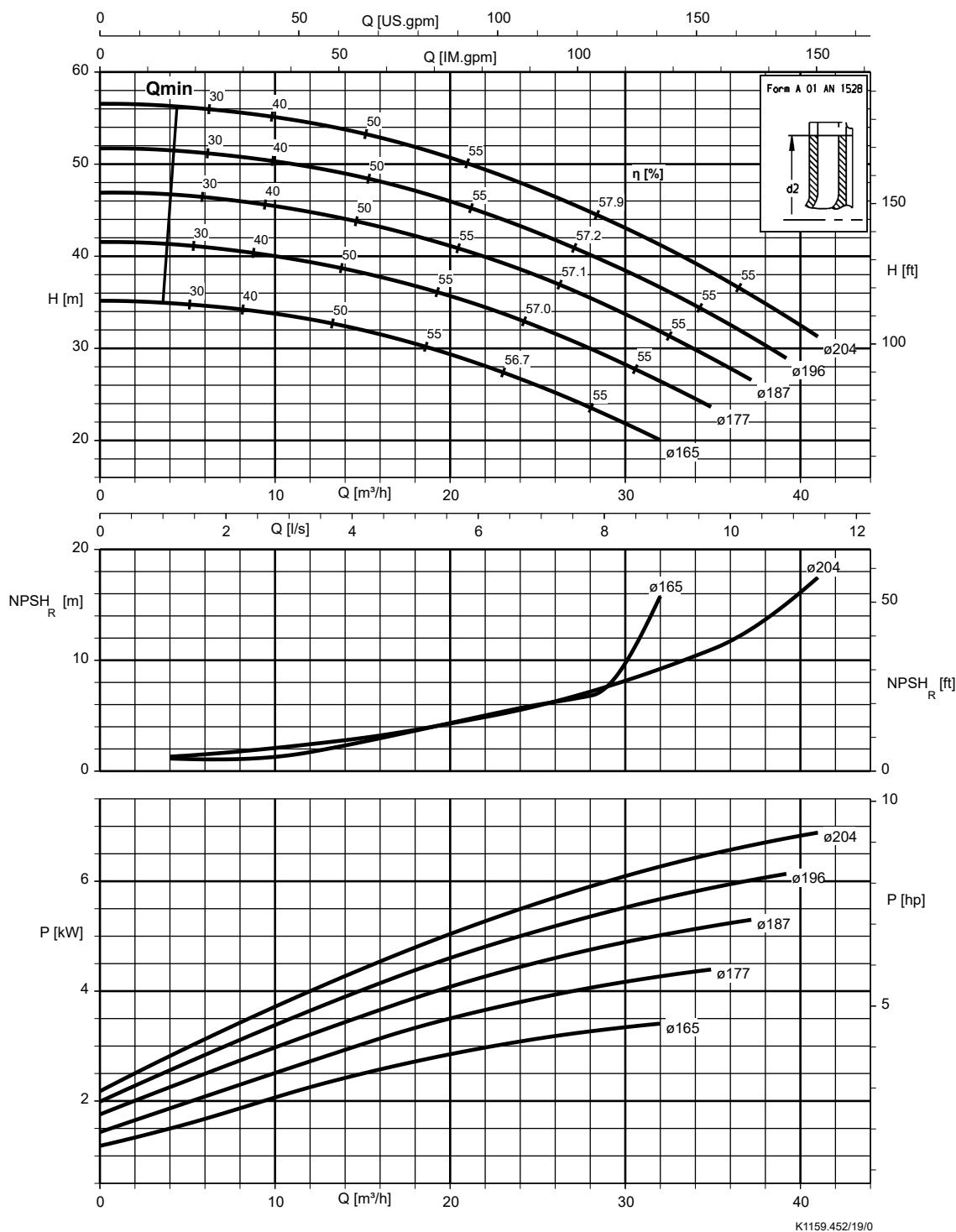
The characteristic curves apply to pumps with cast iron or bronze impellers. When using an impeller made of cast steel materials the efficiency and pump power of the corresponding pump sizes have to be multiplied by the correction factors indicated in the characteristic curves.

Etaline (fixed speed version), $n = 2900$ rpm

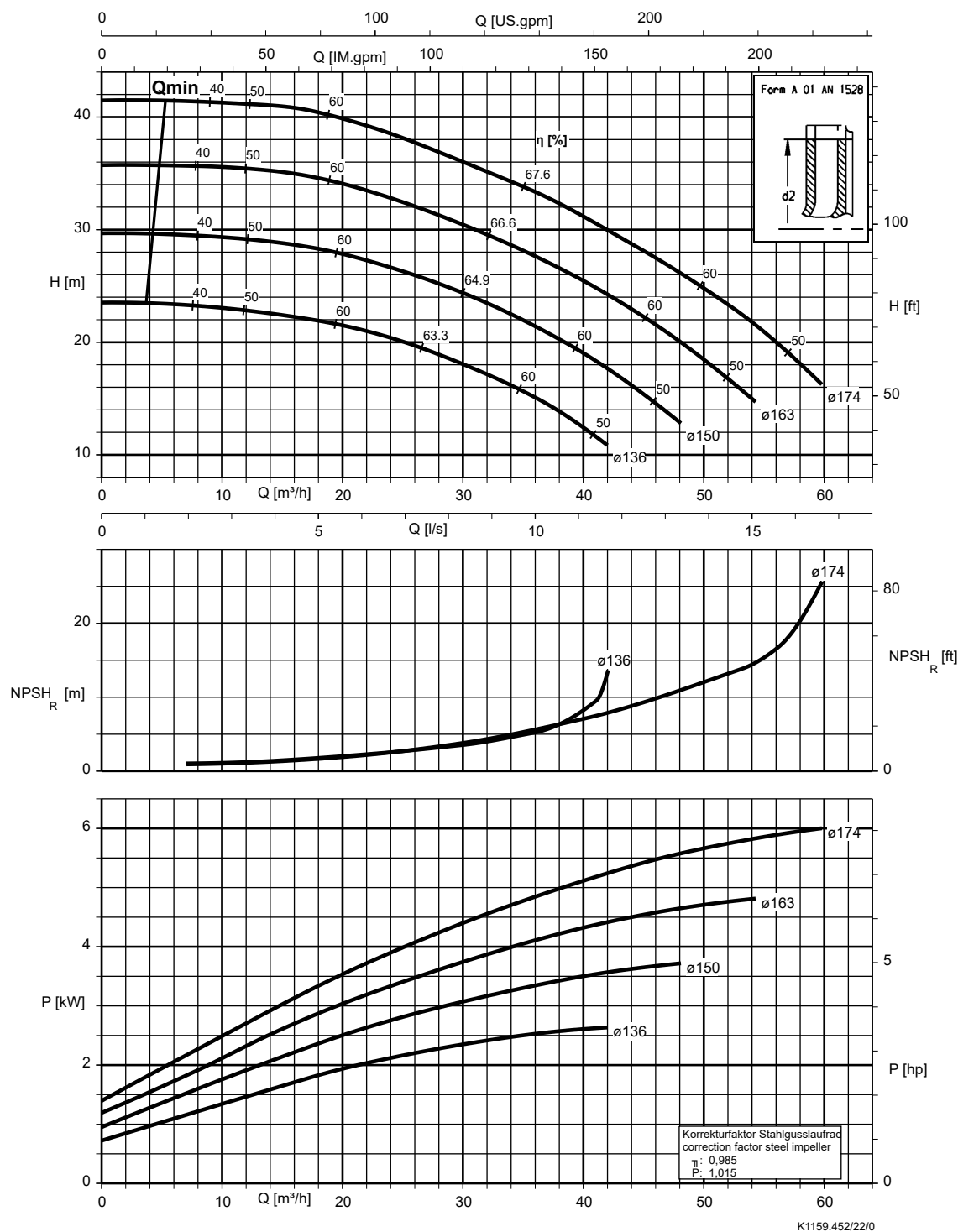
Etaline 032-032-160, $n = 2900$ rpm



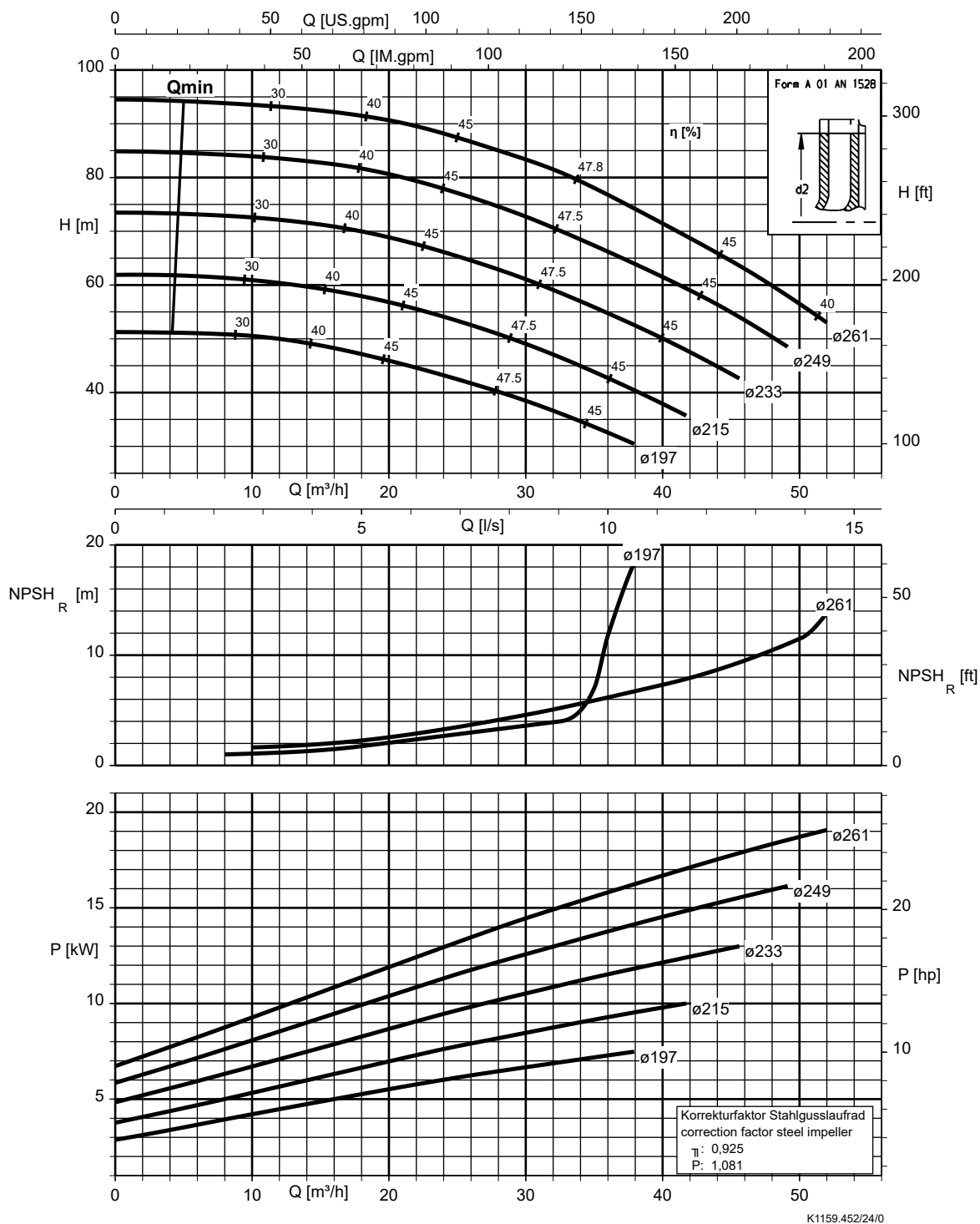
Etaline 032-032-200, n = 2900 rpm



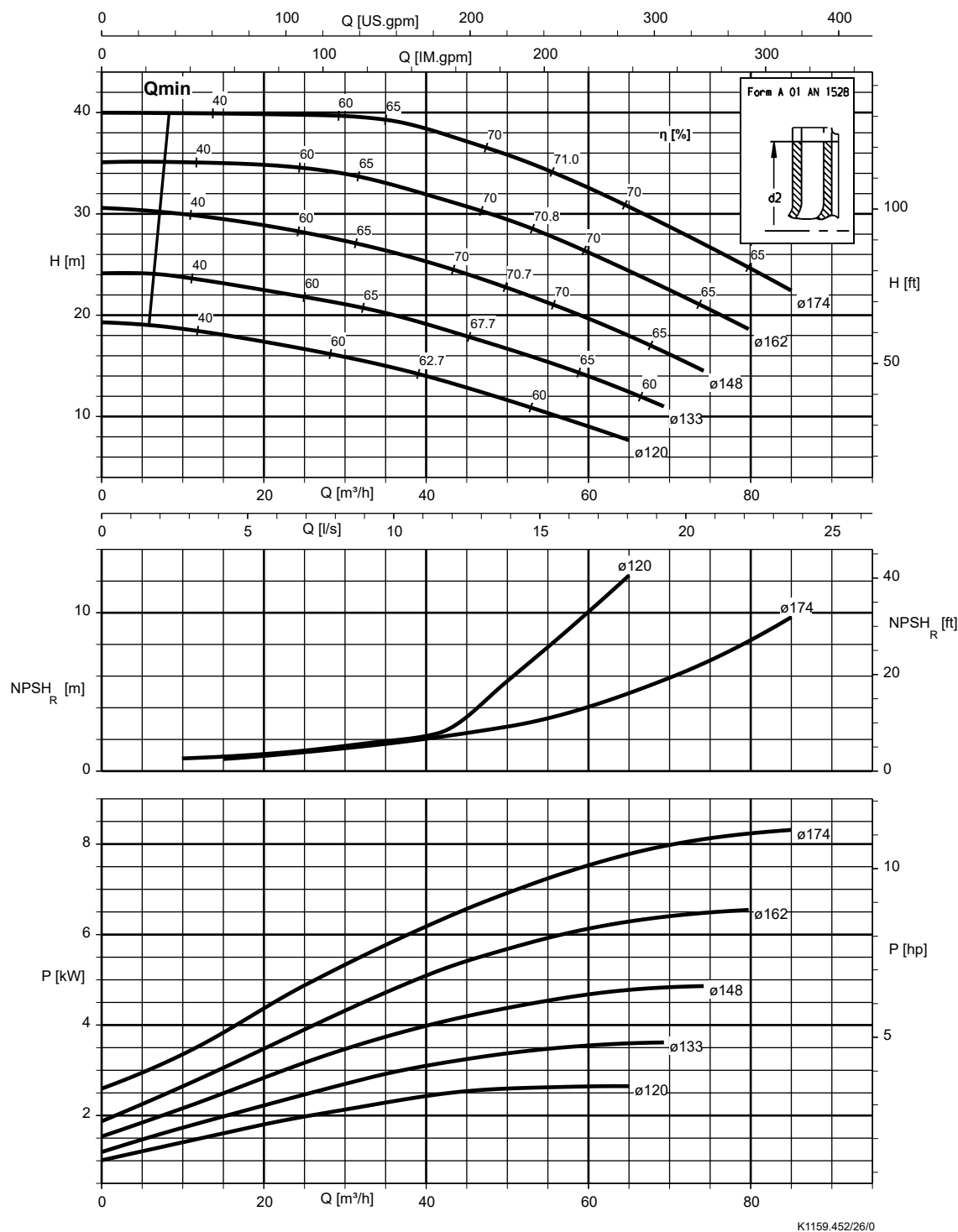
Etaline 040-040-160, n = 2900 rpm



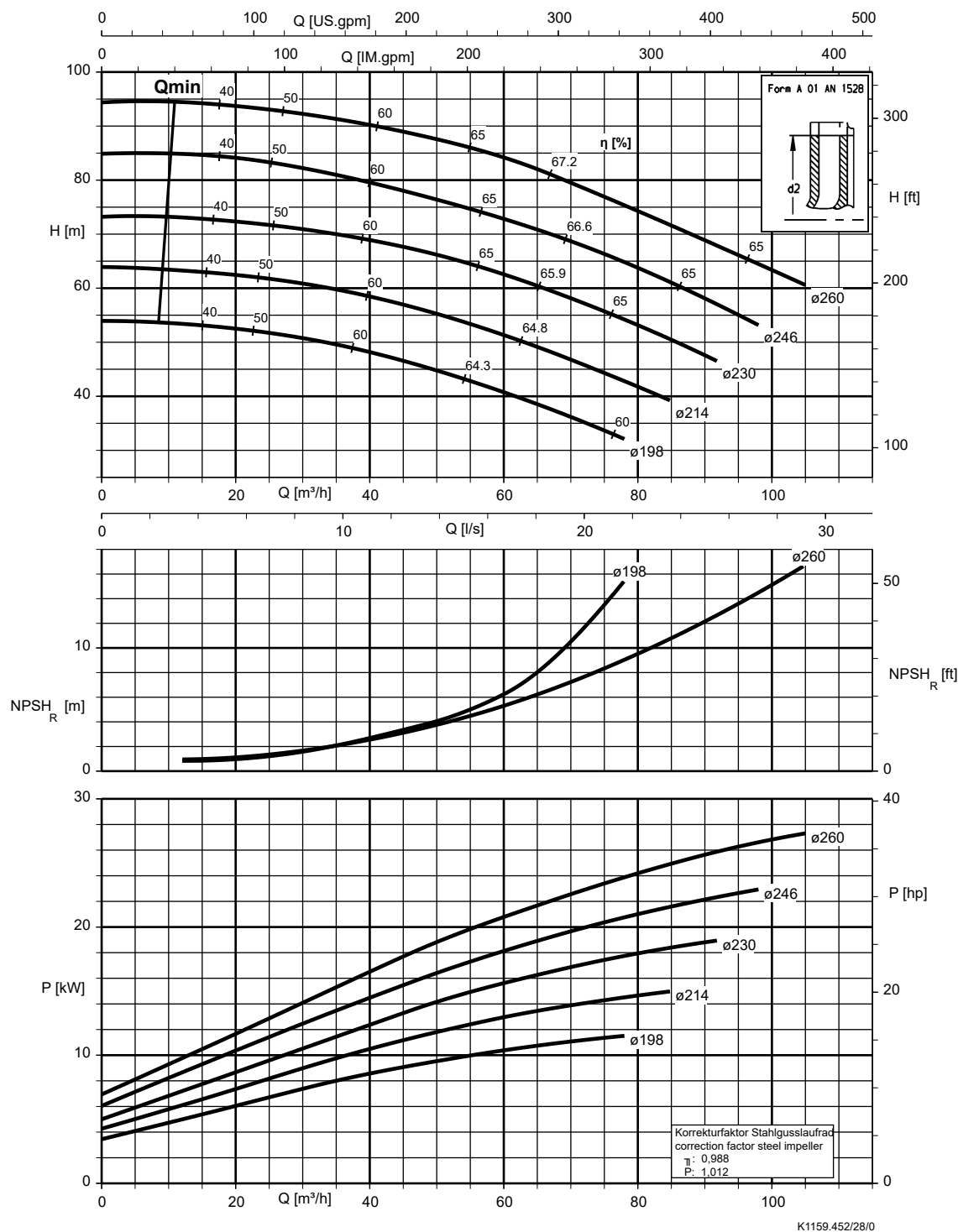
Etaline 040-040-250, n = 2900 rpm



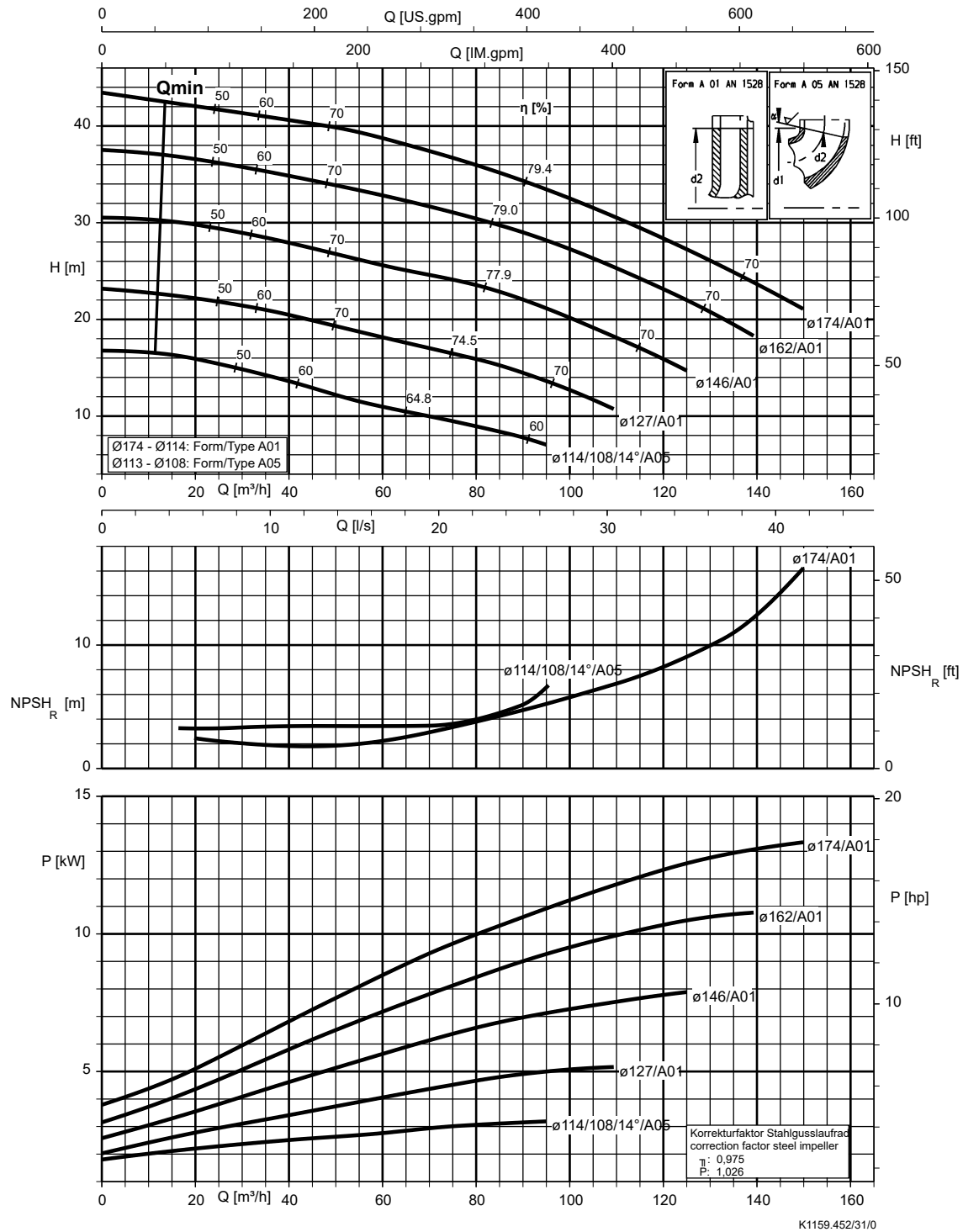
Etaline 050-050-160, n = 2900 rpm



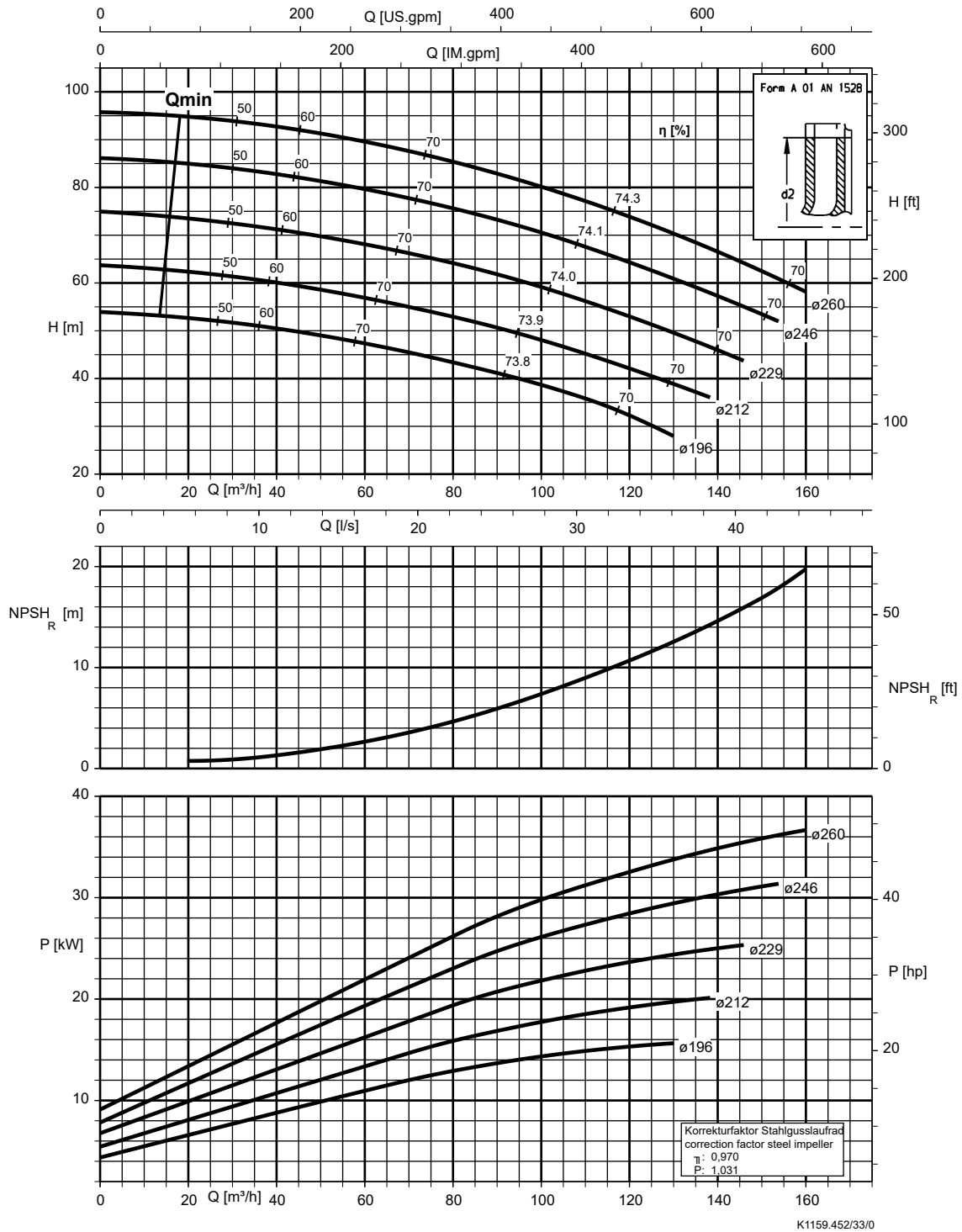
Etaline 050-050-250, n = 2900 rpm



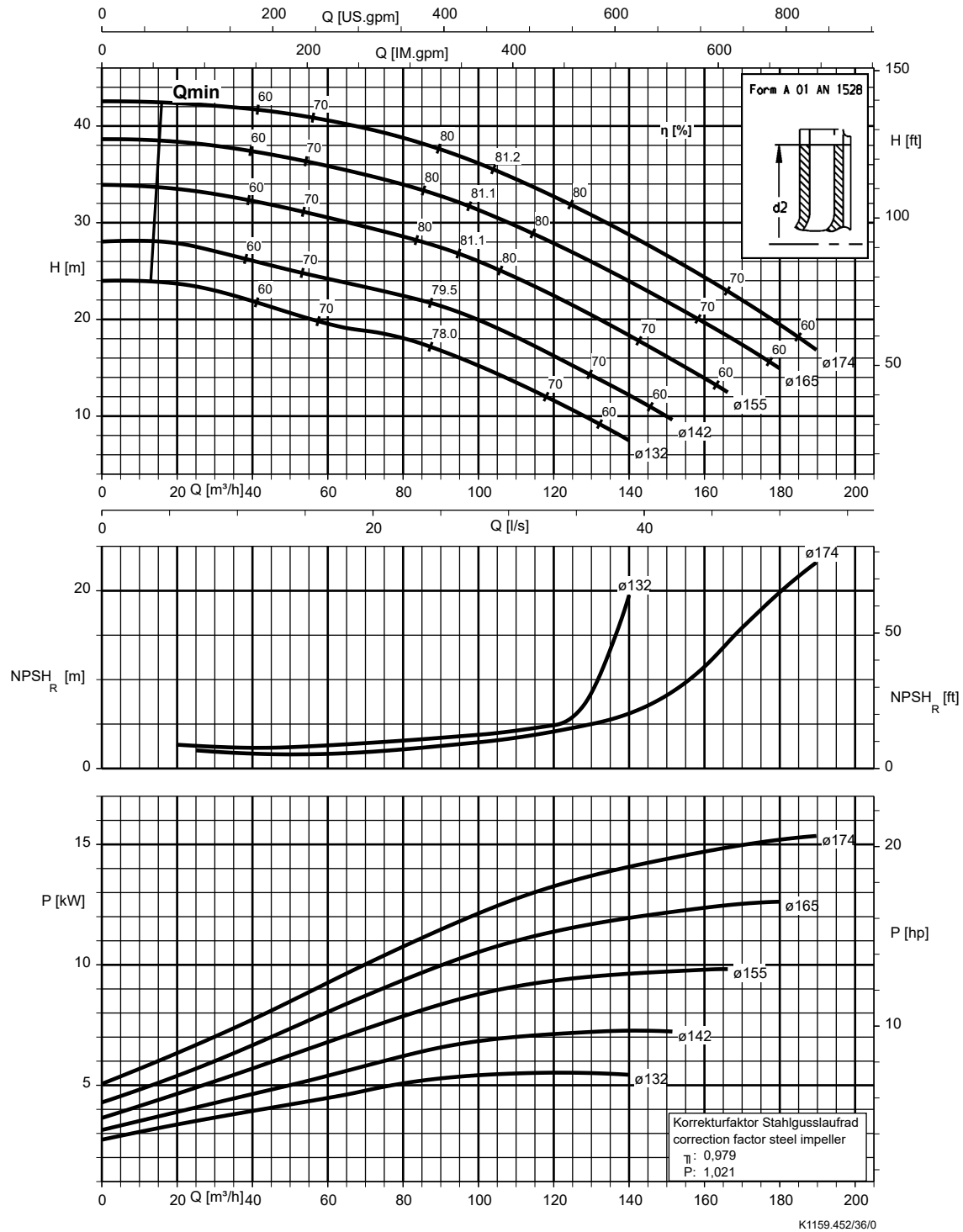
Etaline 065-065-160, n = 2900 rpm



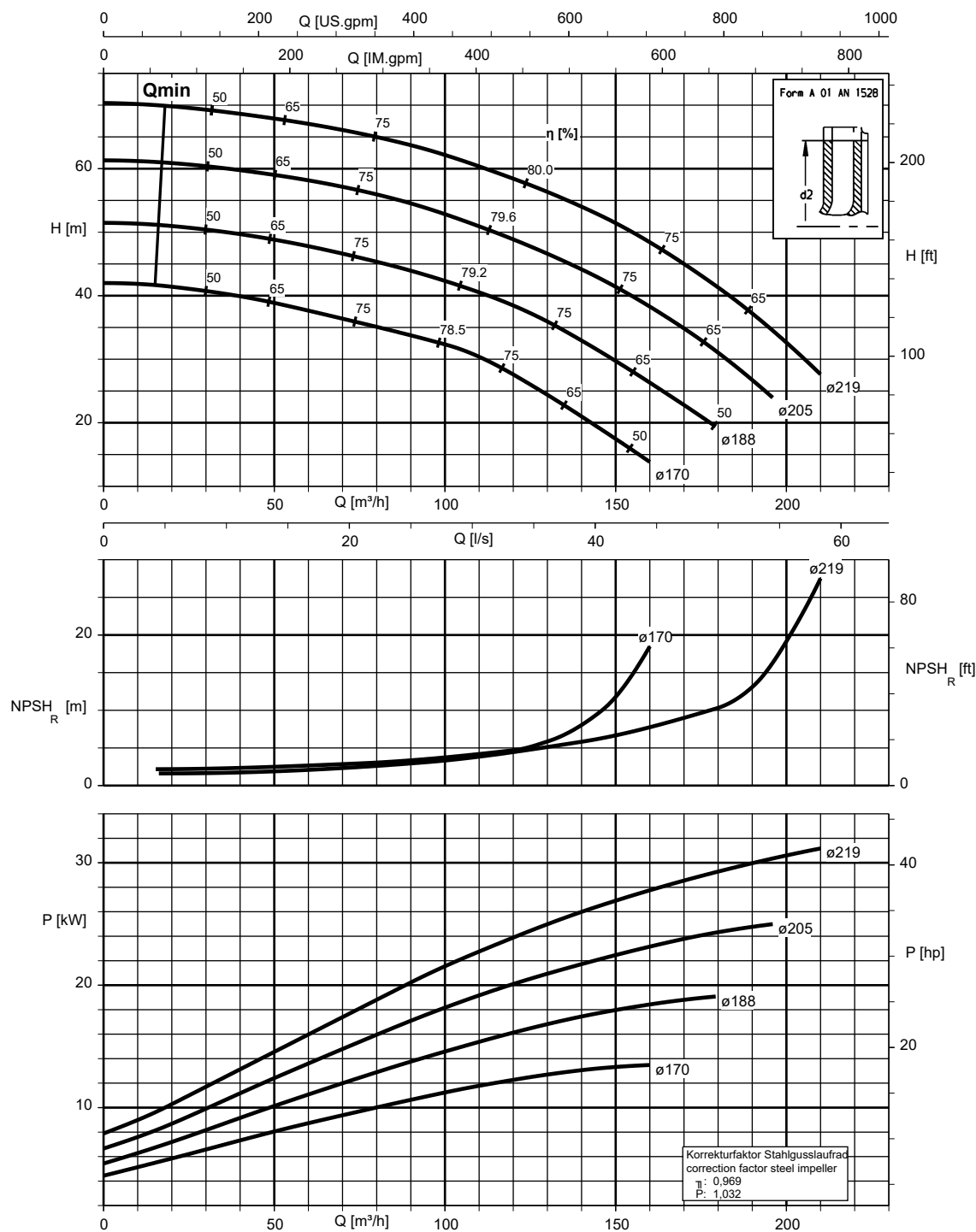
Etaline 065-065-250, n = 2900 rpm



Etaline 080-080-160, n = 2900 rpm

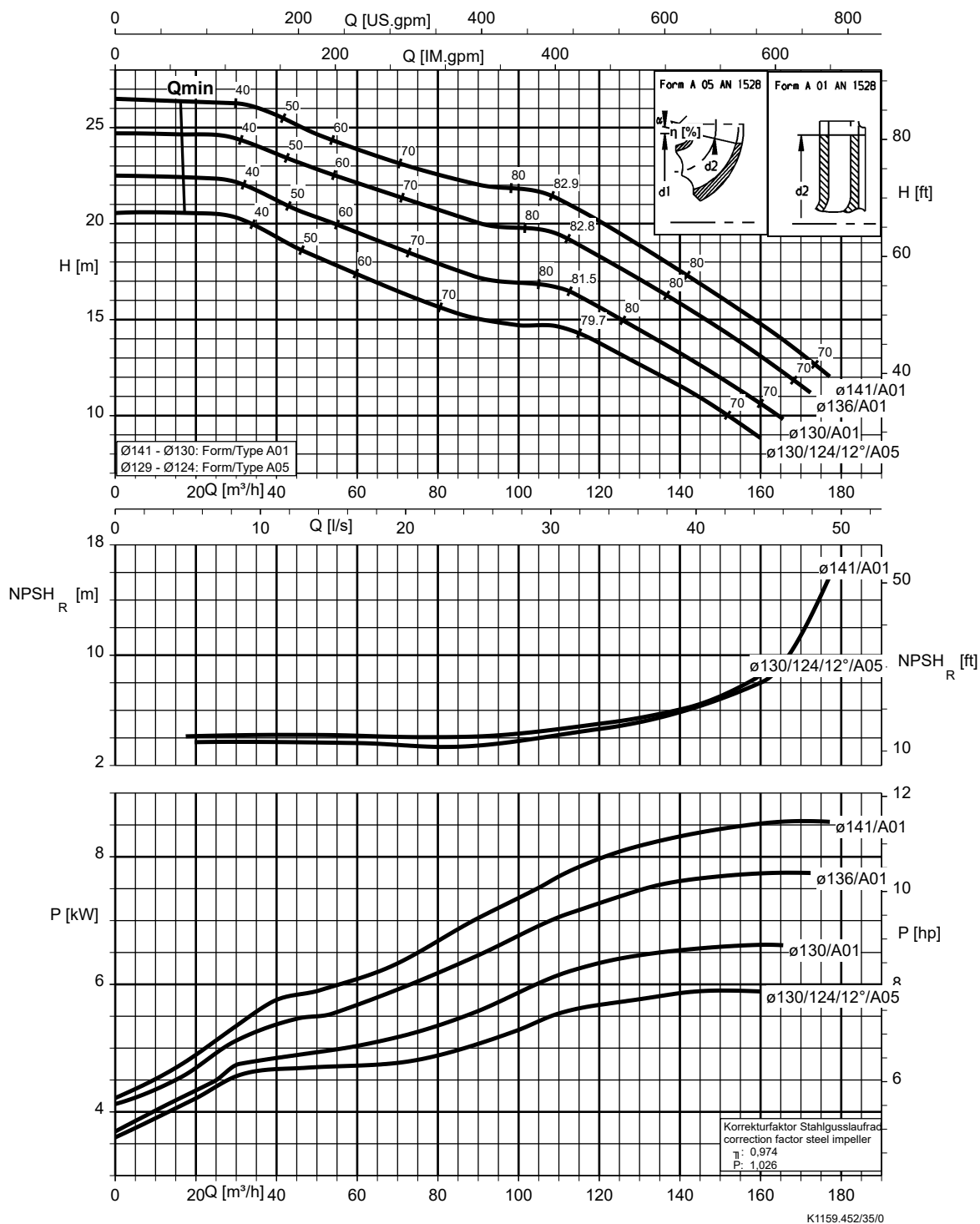


Etaline 080-080-200, n = 2900 rpm

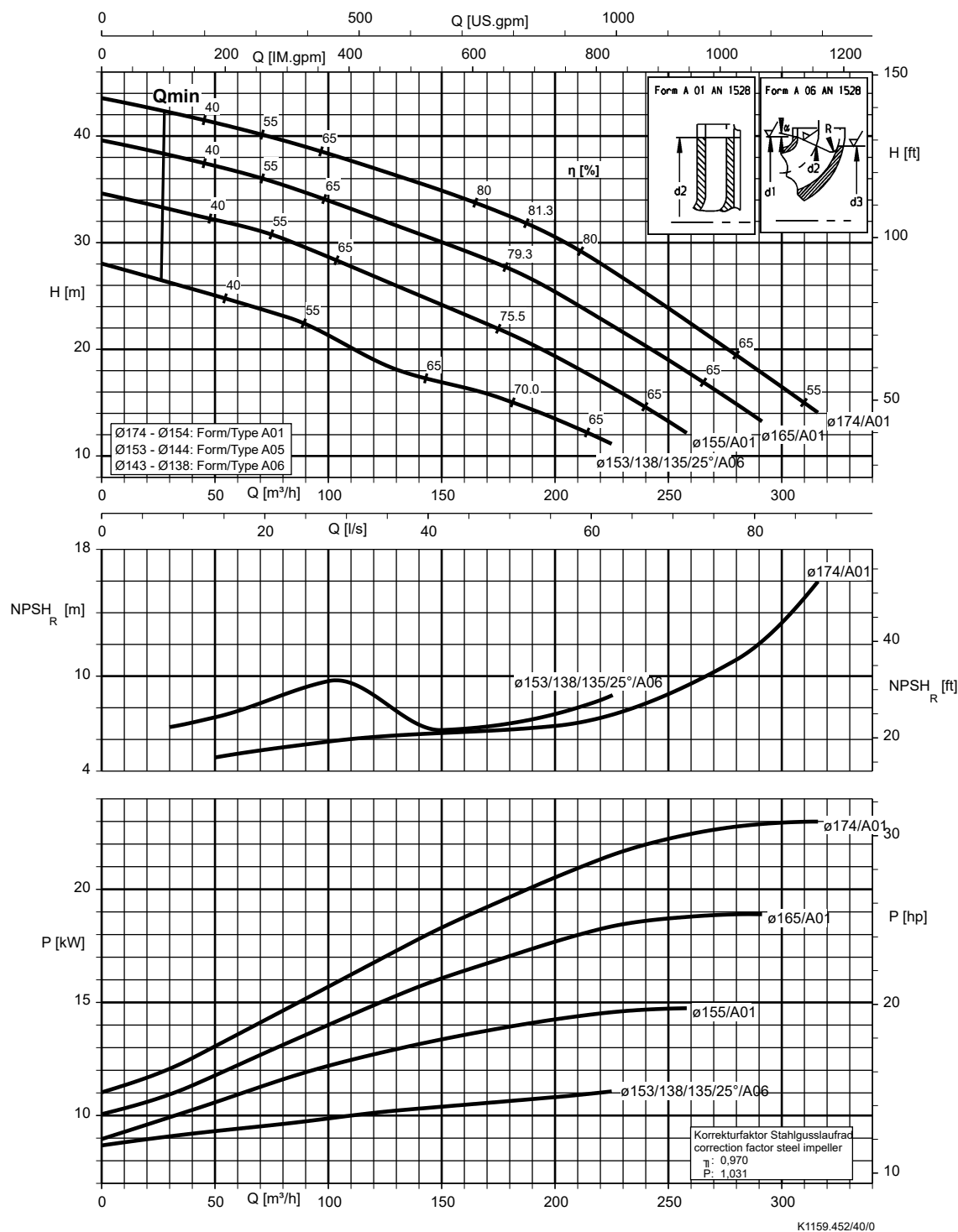


K1159.452/37/0

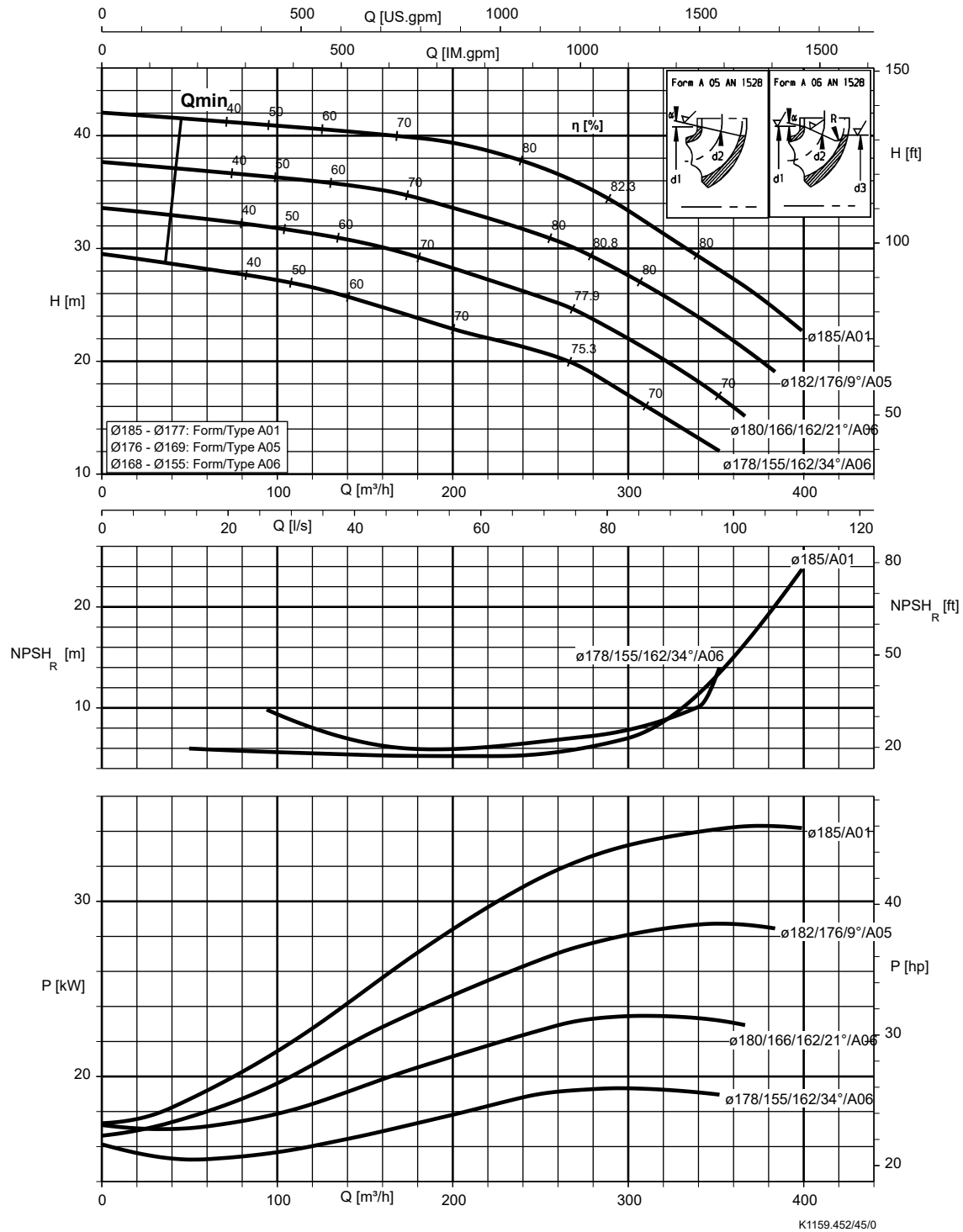
Etaline 100-100-125, n = 2900 rpm



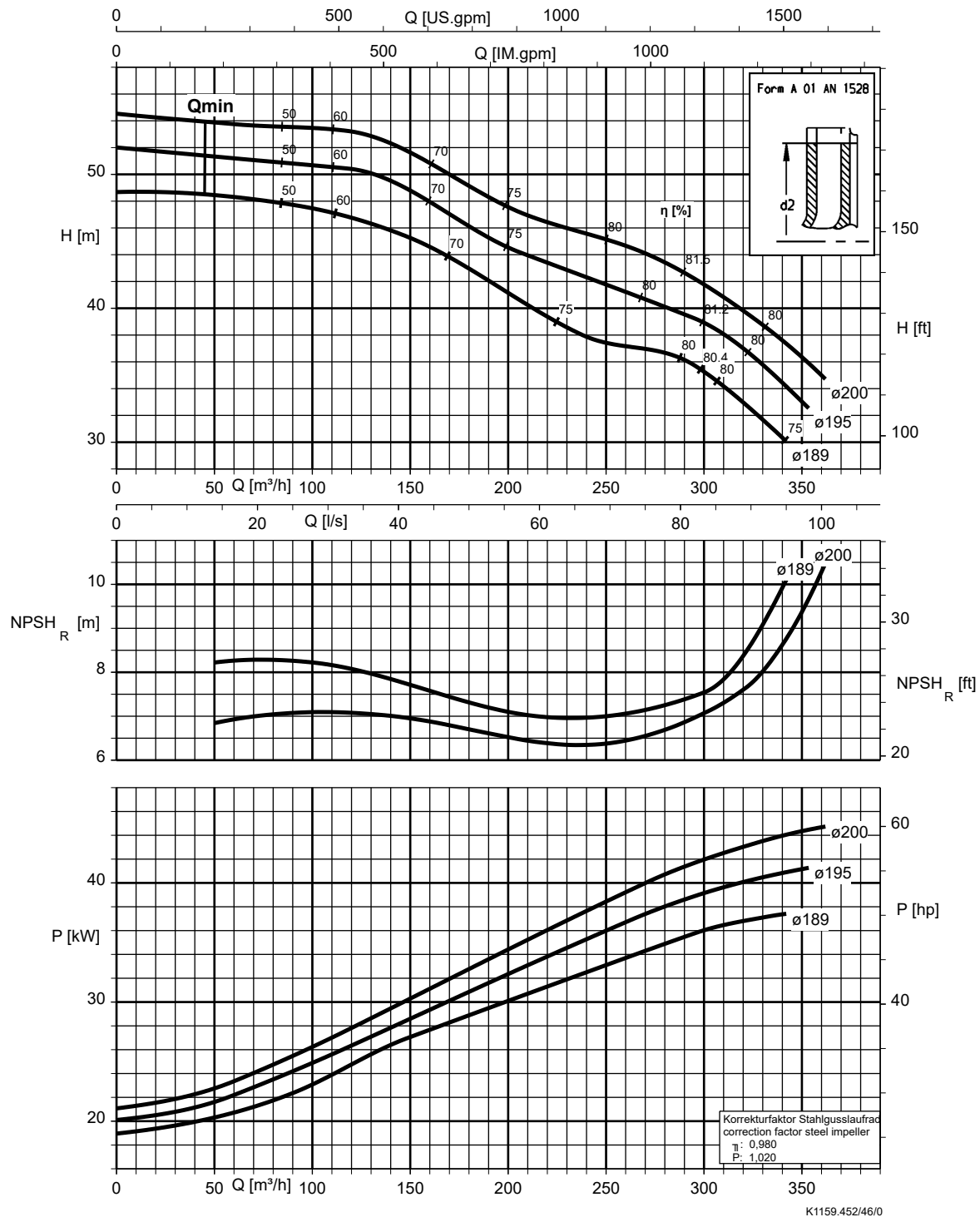
Etaline 100-100-160, n = 2900 rpm



Etaline 125-125-160, n = 2900 rpm

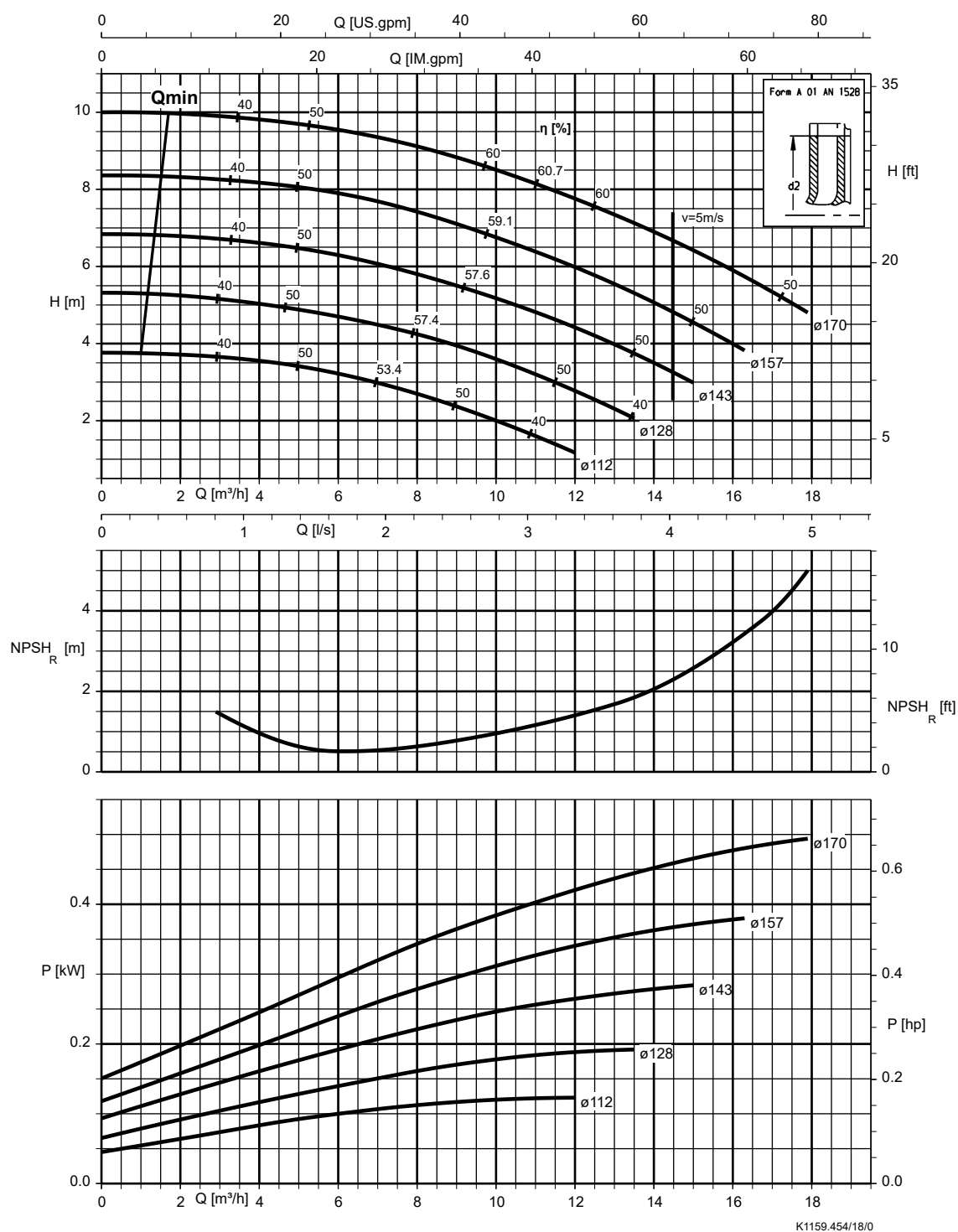


Etaline 125-125-200, n = 2900 rpm

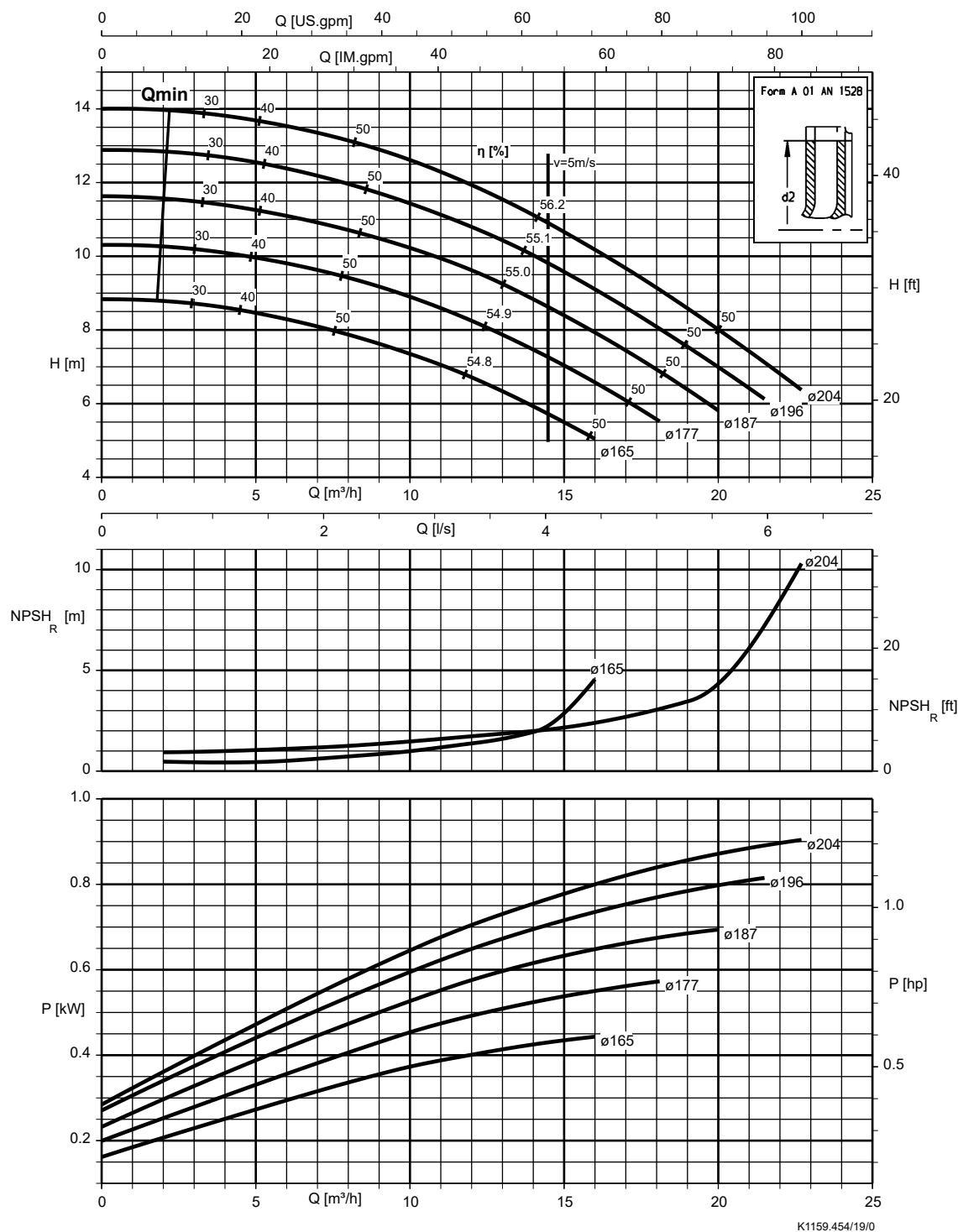


Etaline (fixed speed version), $n = 1450$ rpm

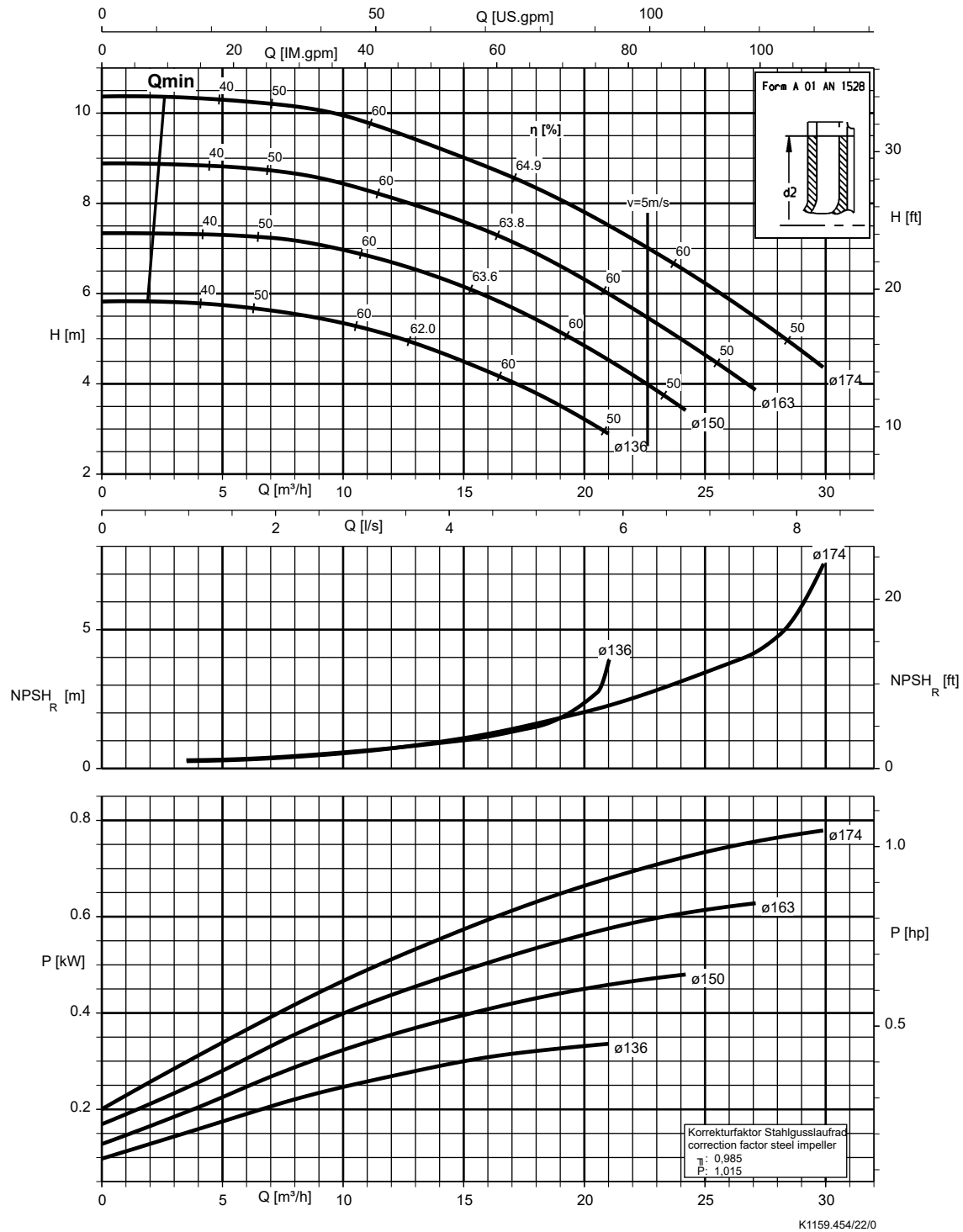
Etaline 032-032-160, $n = 1450$ rpm



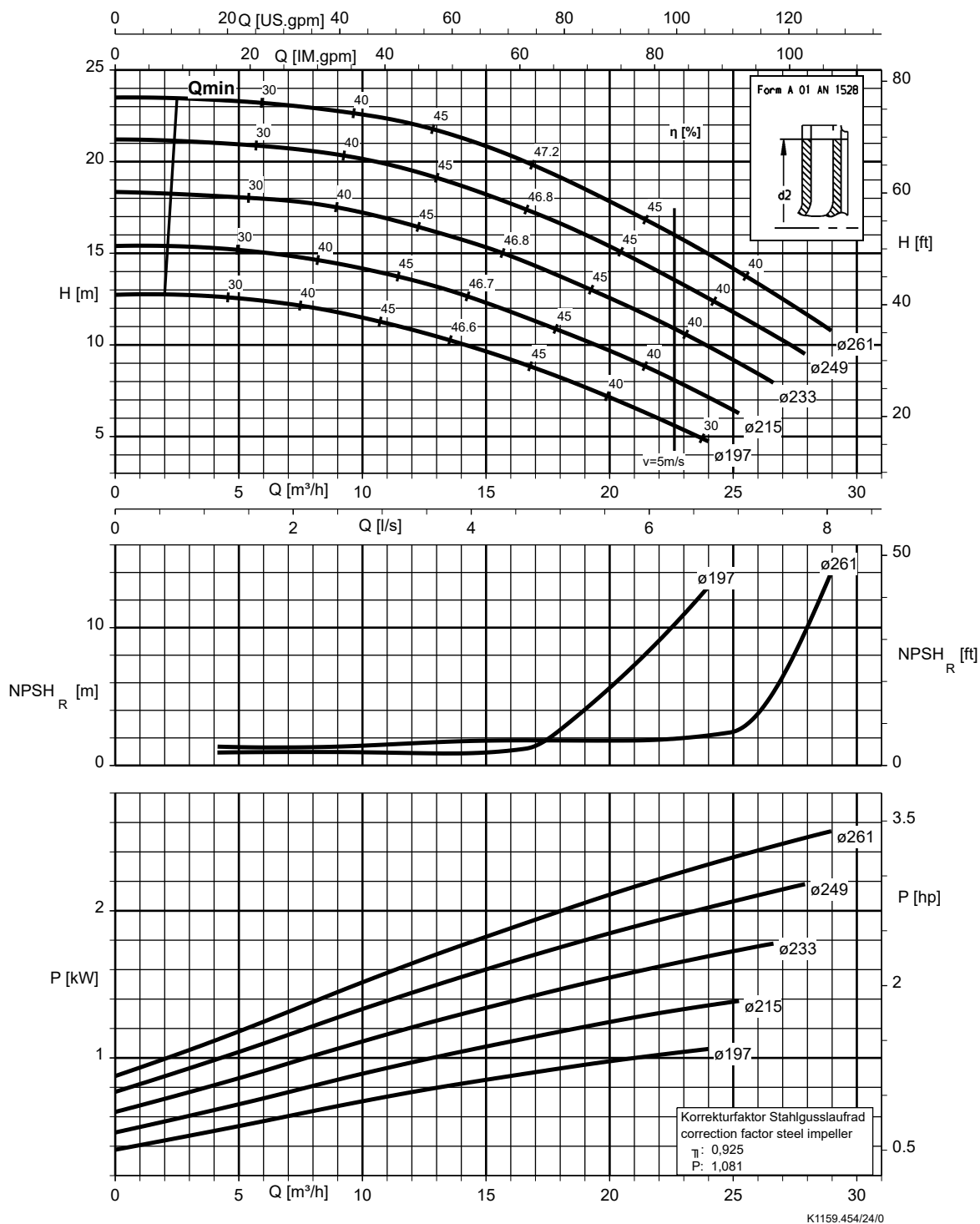
Etaline 032-032-200, n = 1450 rpm



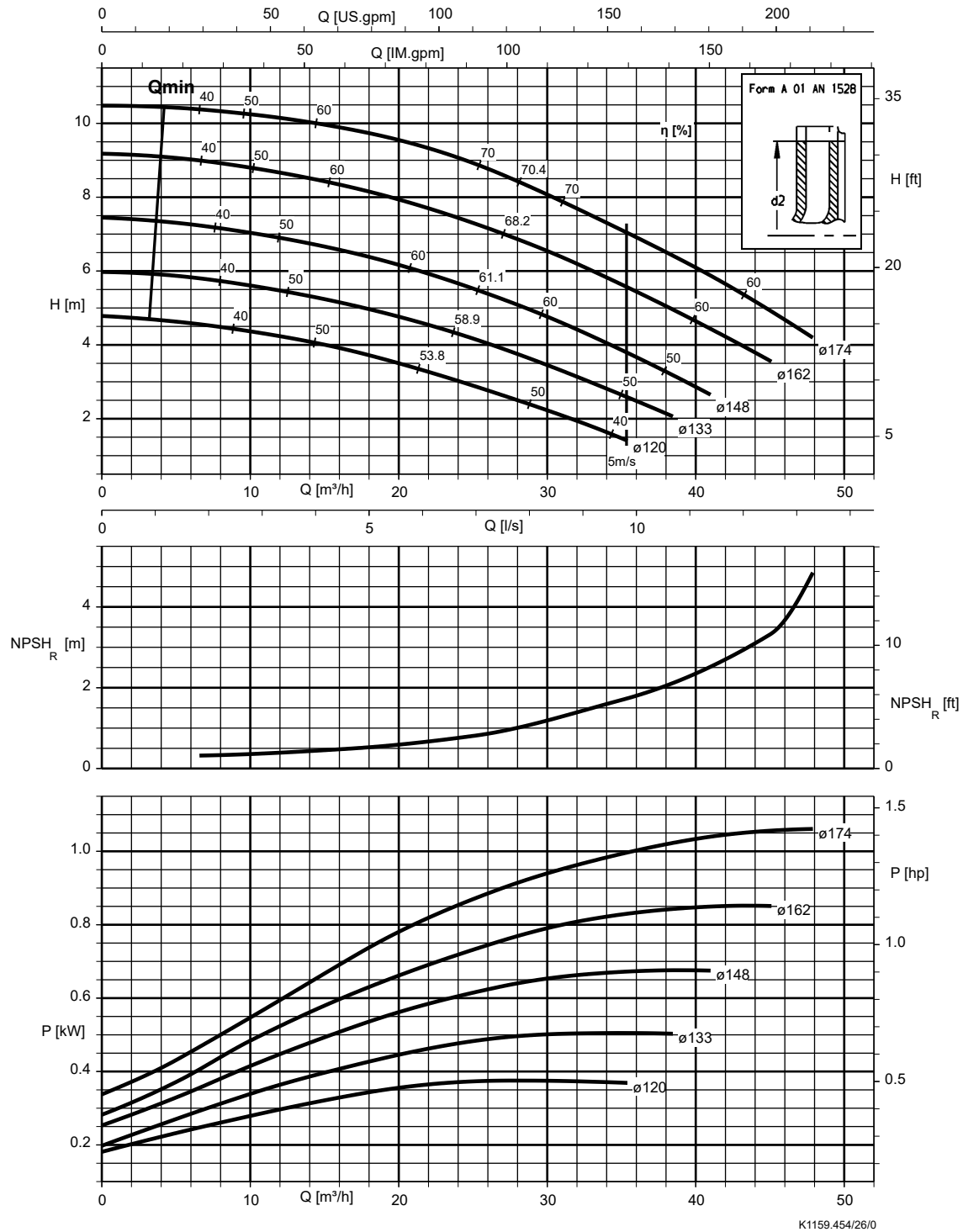
Etaline 040-040-160, n = 1450 rpm



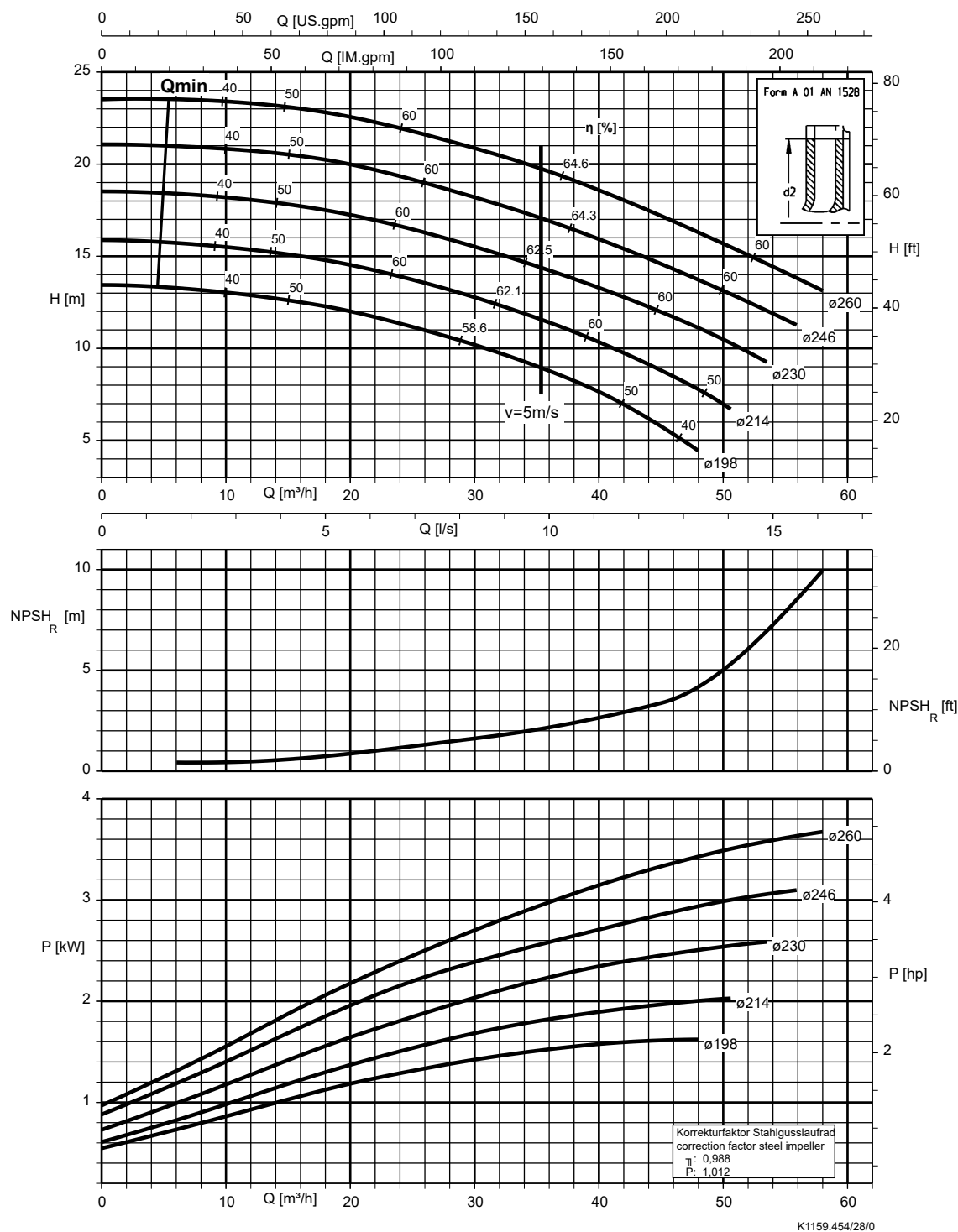
Etaline 040-040-250, n = 1450 rpm



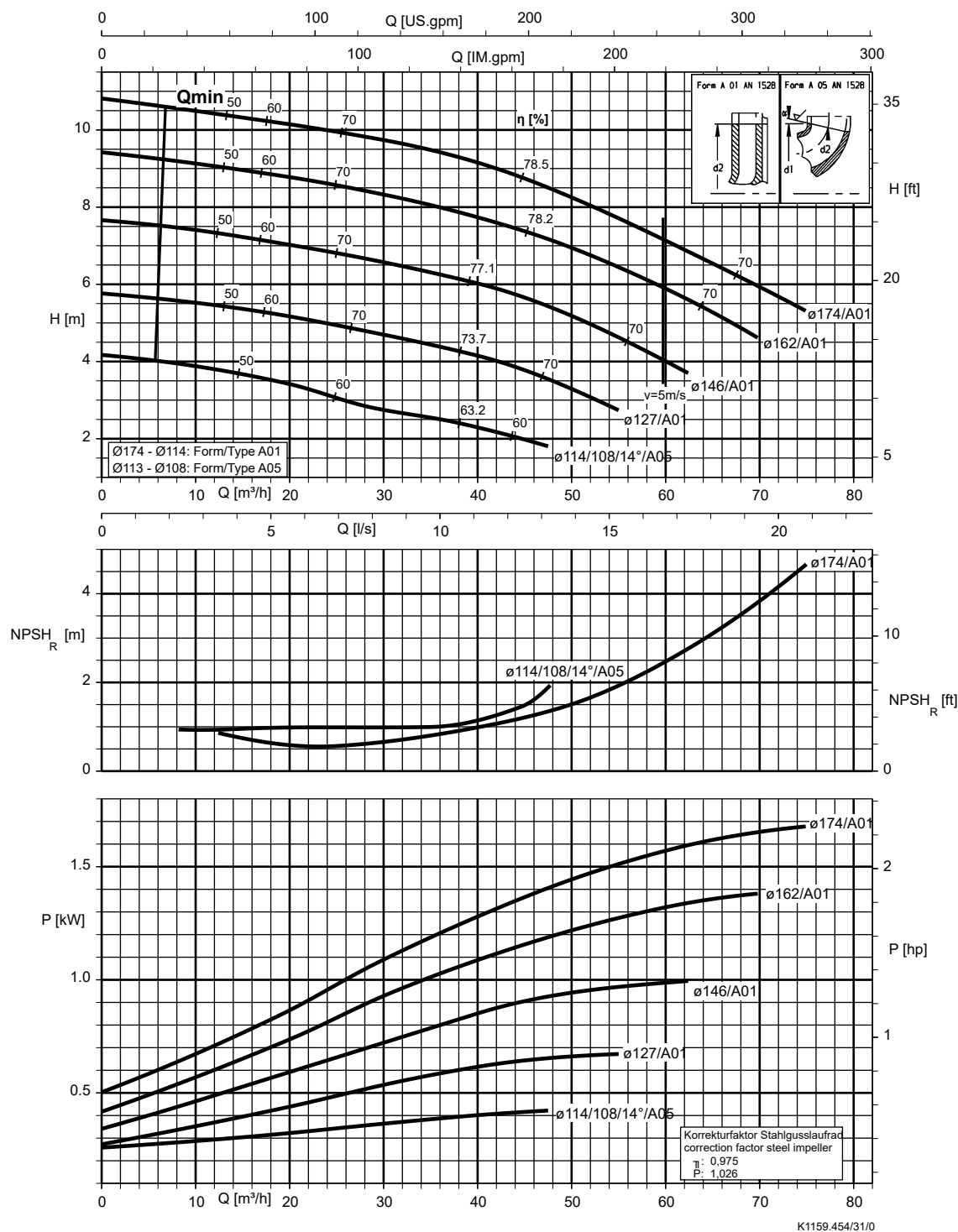
Etaline 050-050-160, n = 1450 rpm



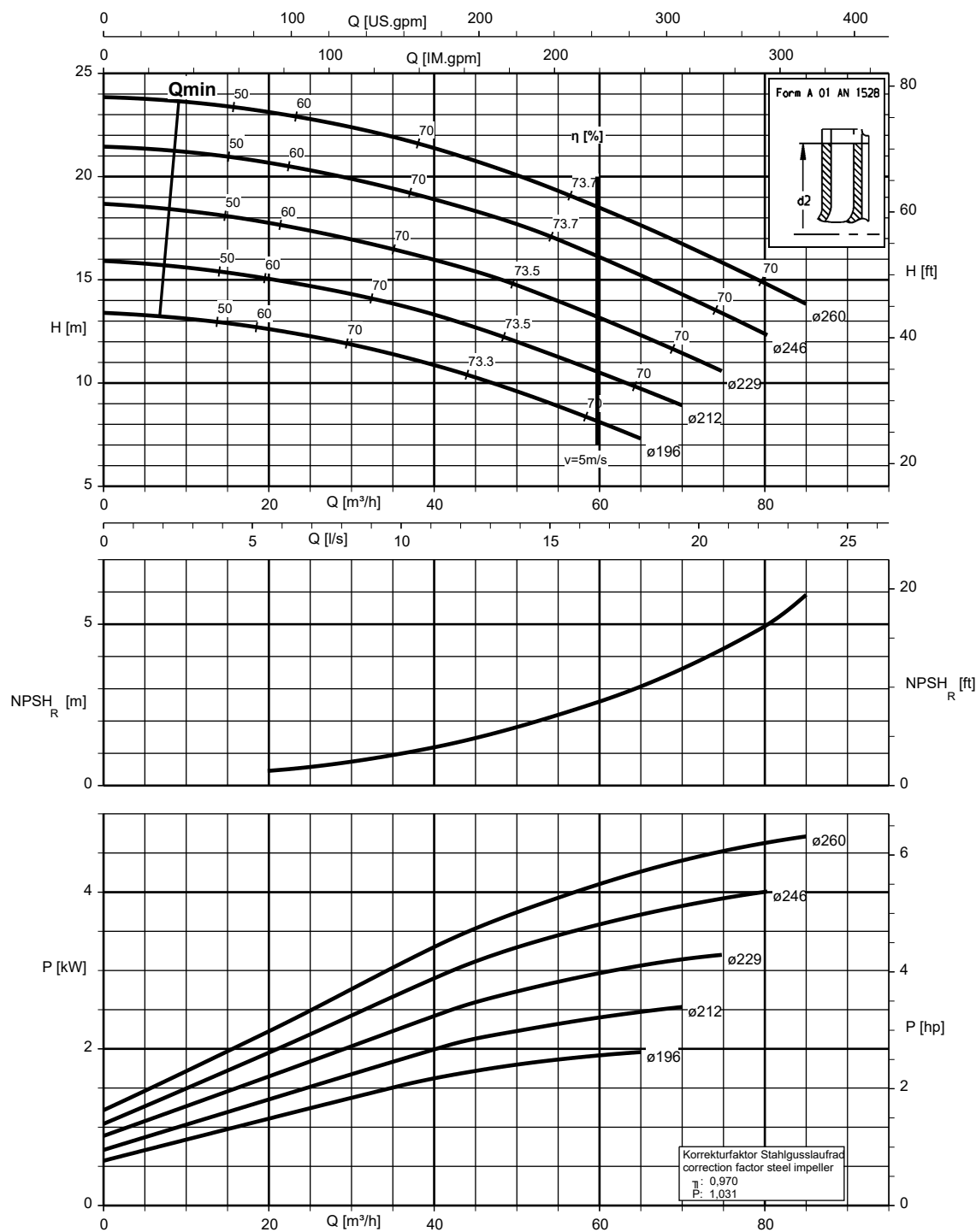
Etaline 050-050-250, n = 1450 rpm



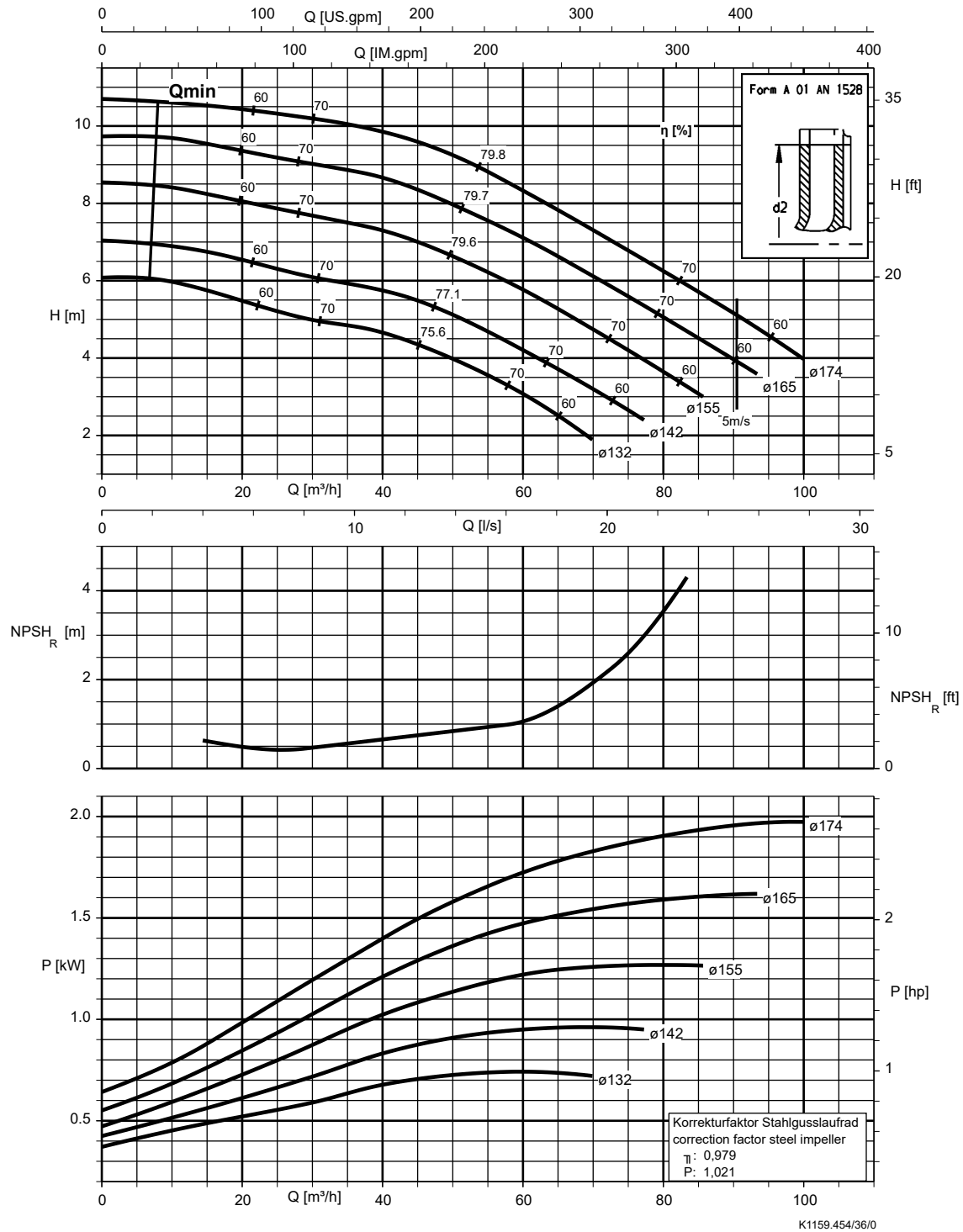
Etaline 065-065-160, n = 1450 rpm



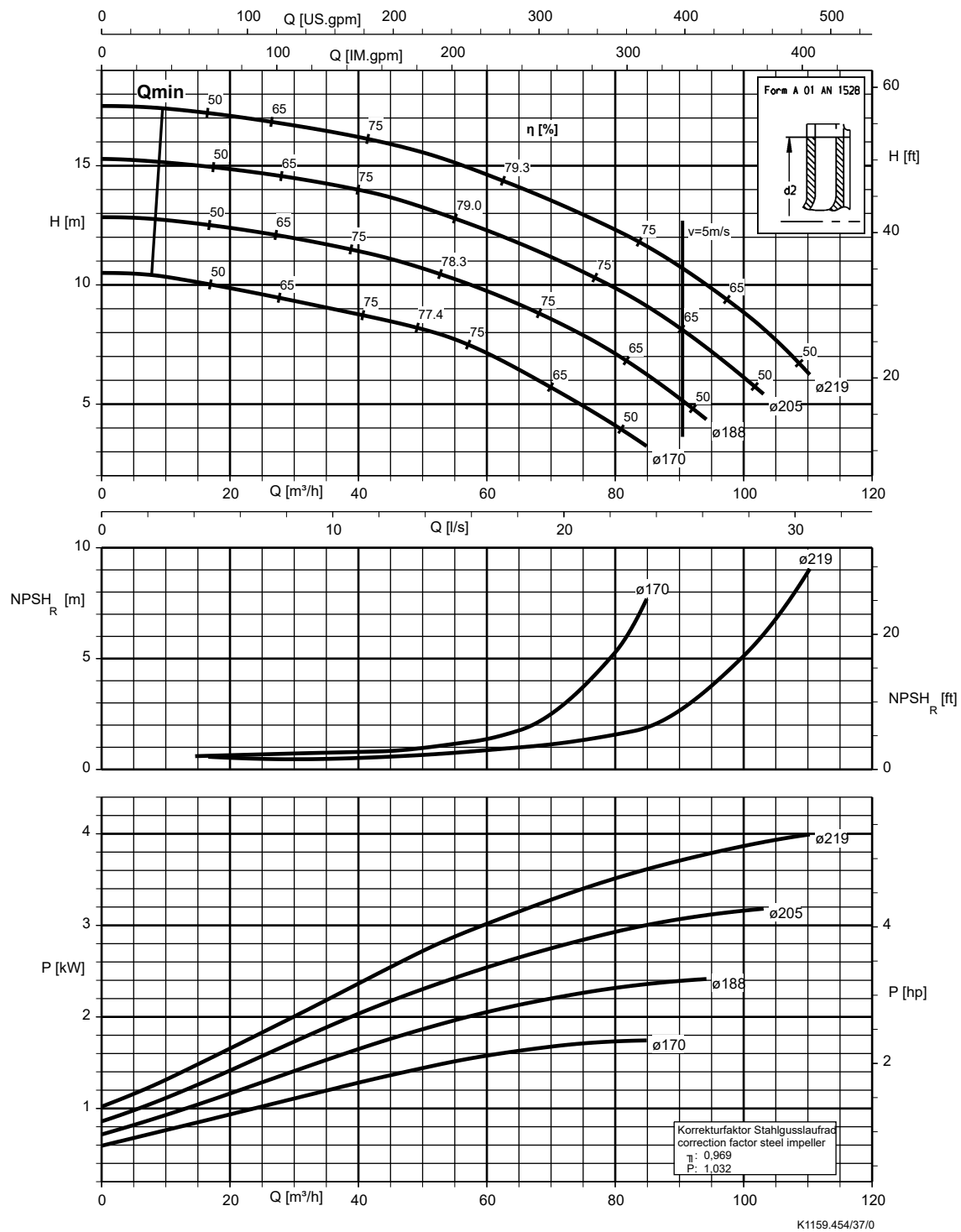
Etaline 065-065-250, n = 1450 rpm



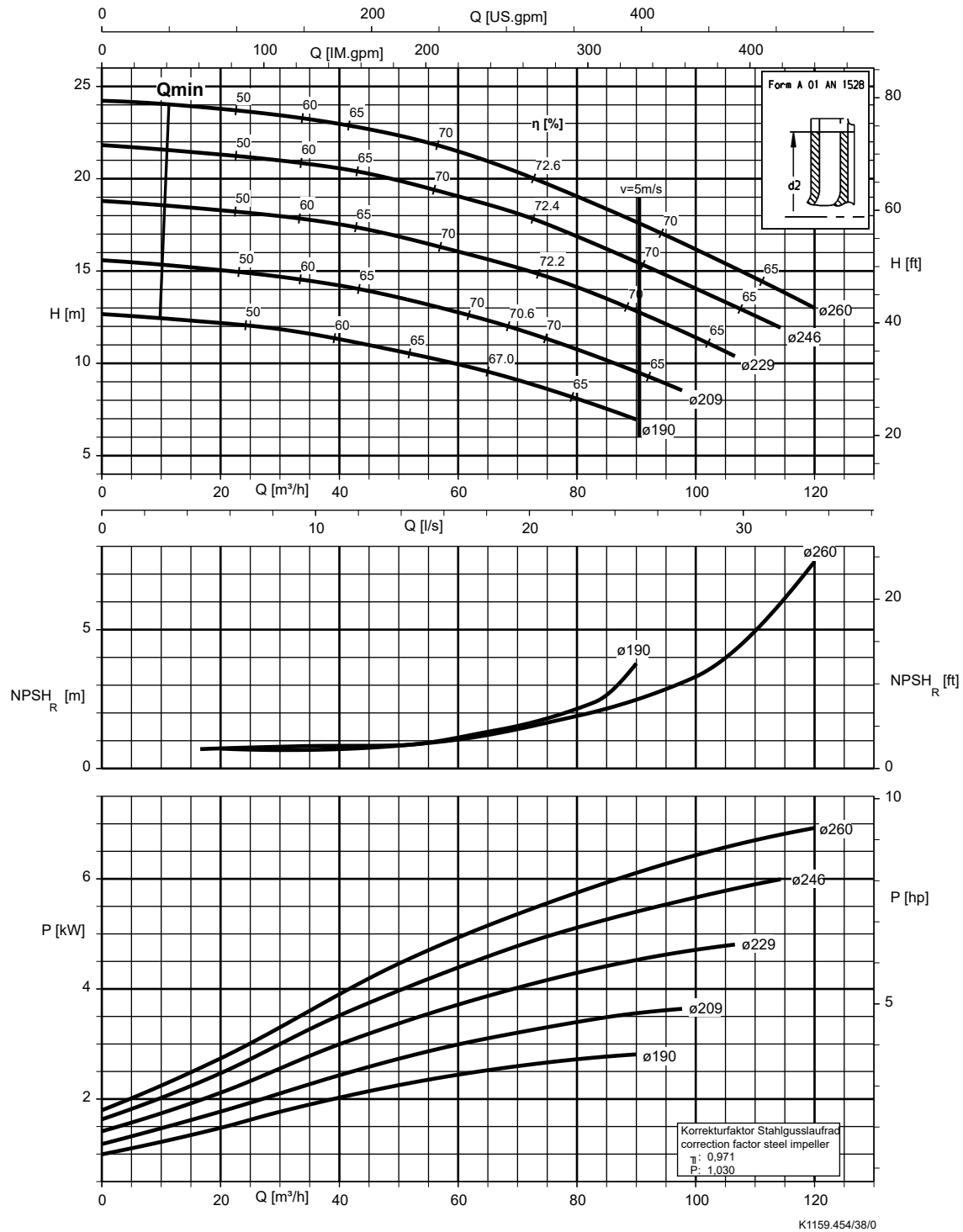
Etaline 080-080-160, n = 1450 rpm



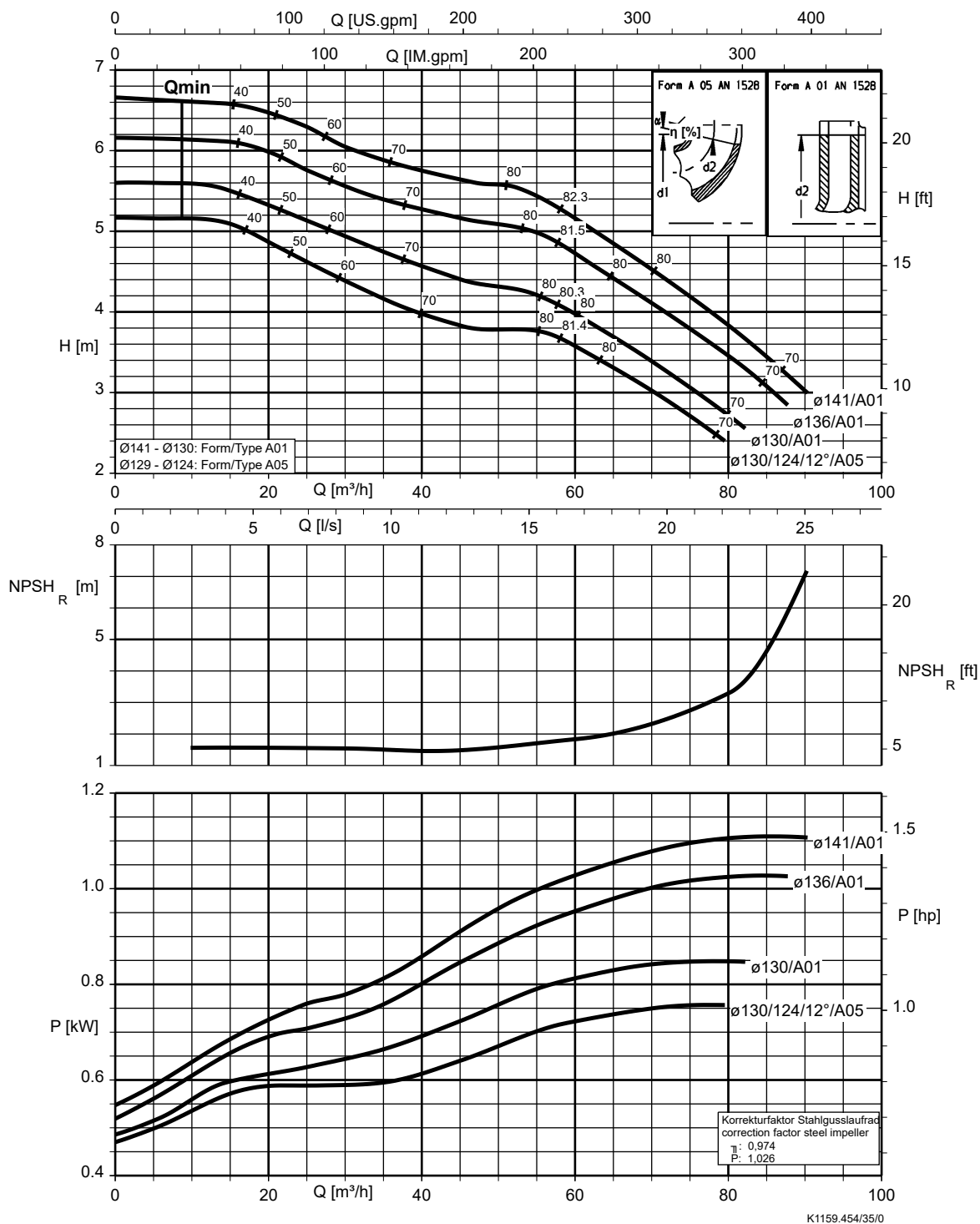
Etaline 080-080-200, n = 1450 rpm



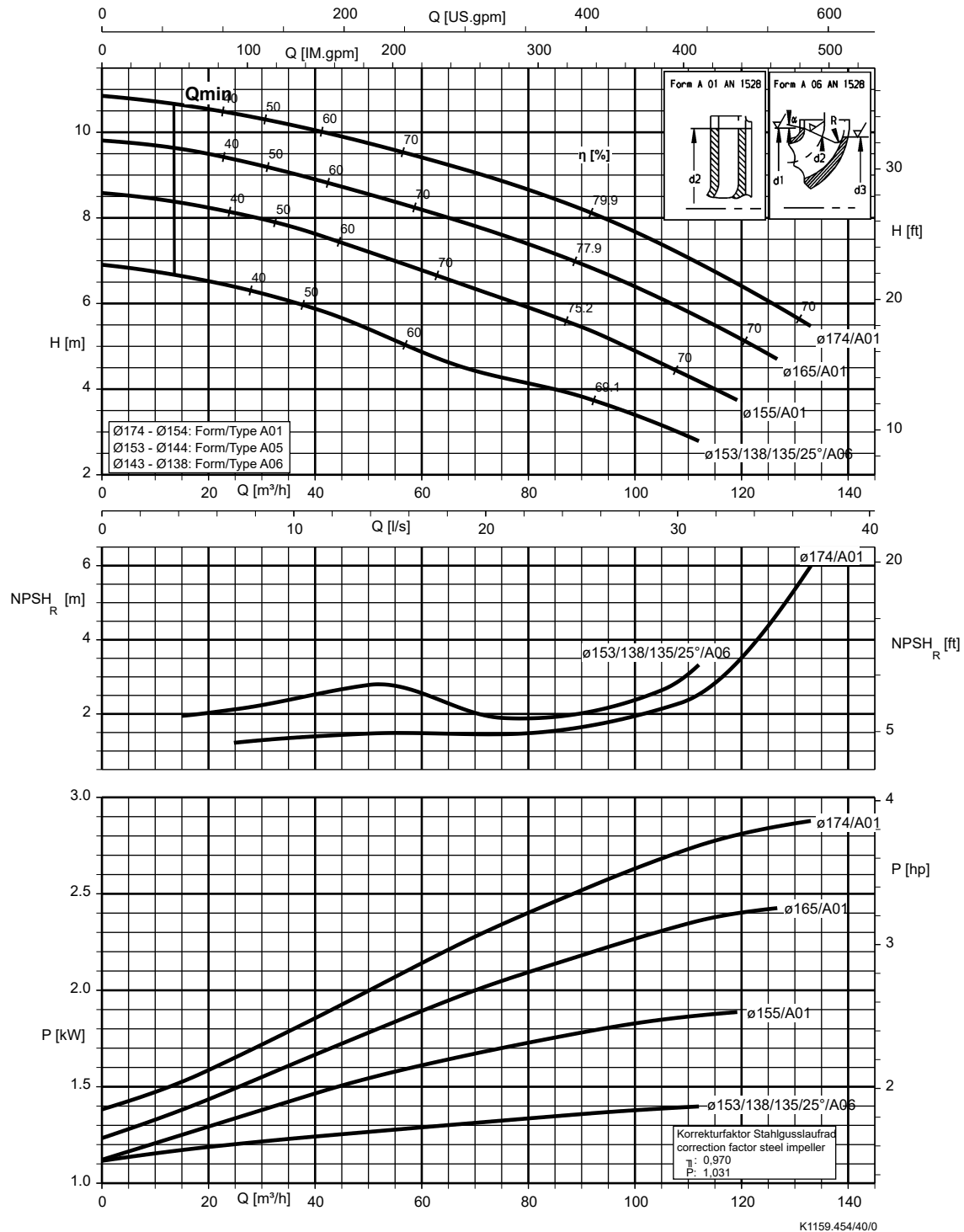
Etaline 080-080-250, n = 1450 rpm



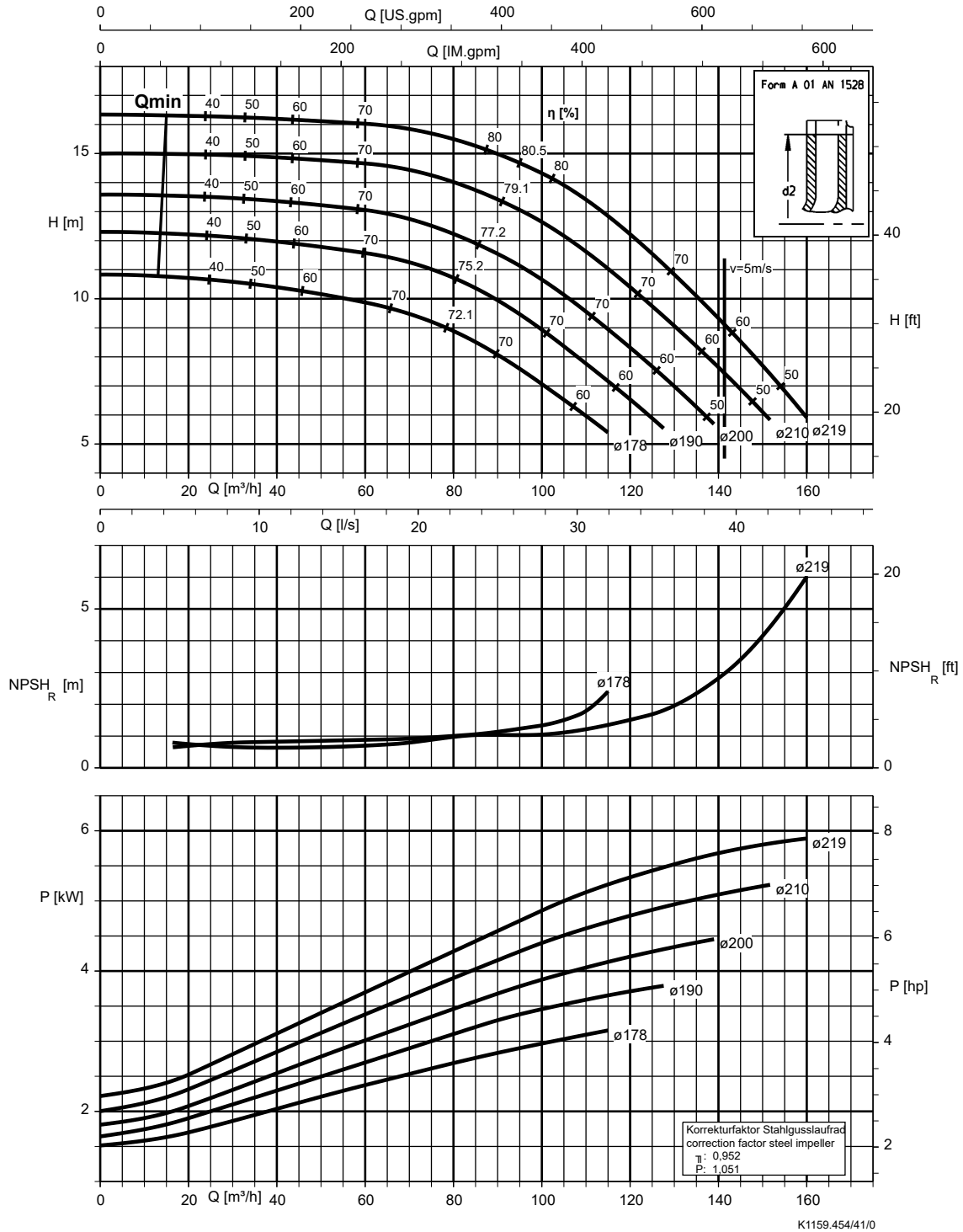
Etaline 100-100-125, n = 1450 rpm



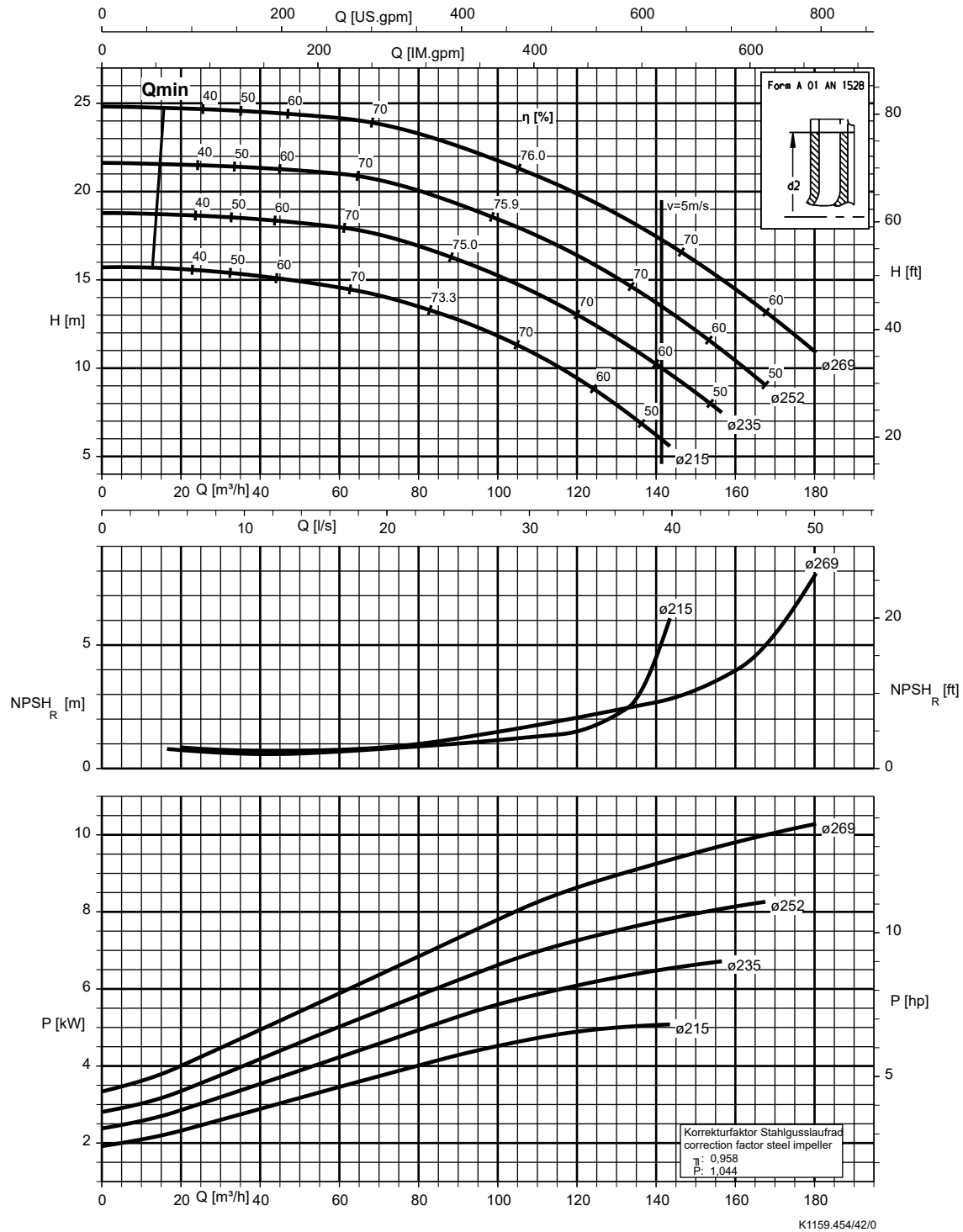
Etaline 100-100-160, n = 1450 rpm



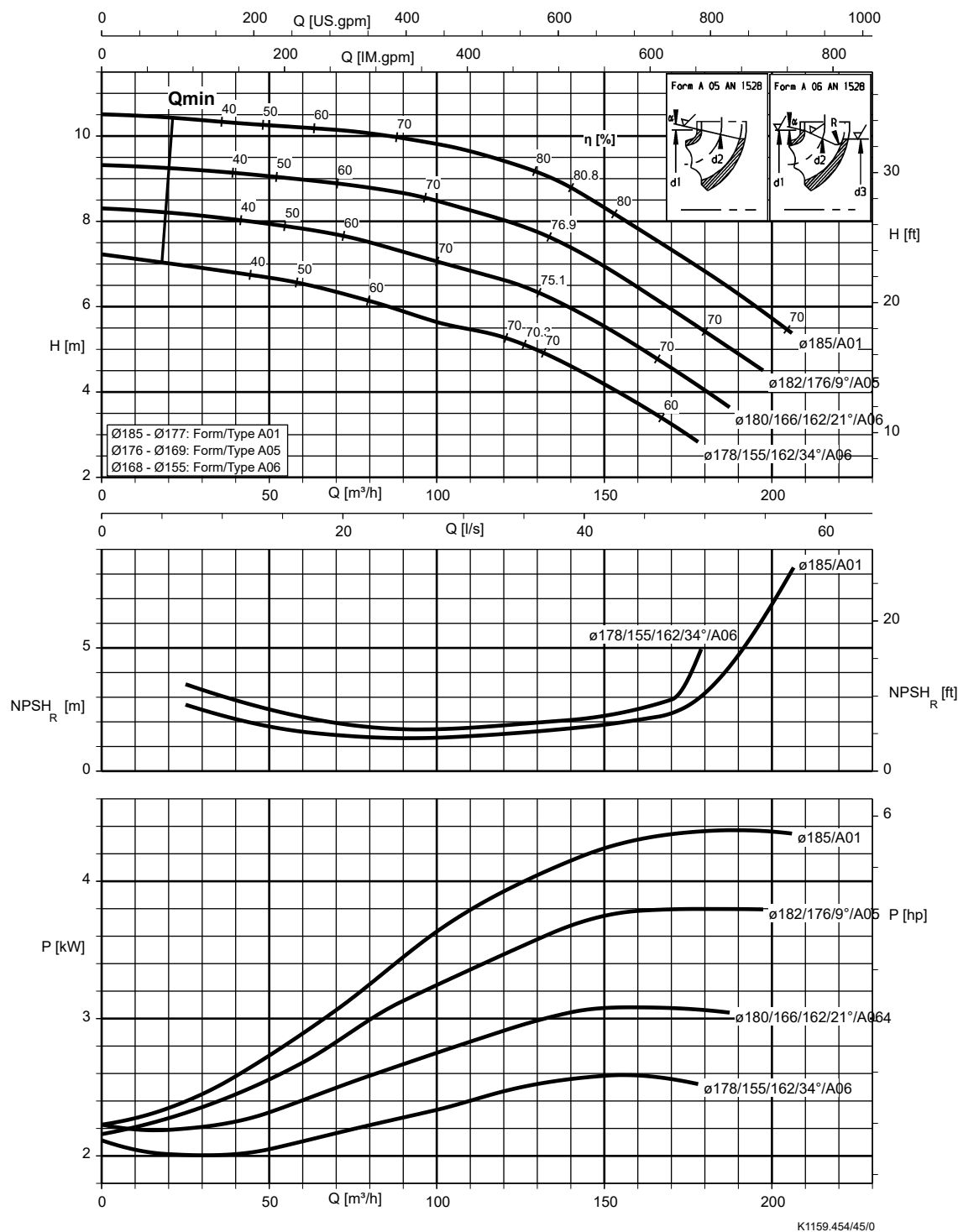
Etaline 100-100-200, n = 1450 rpm



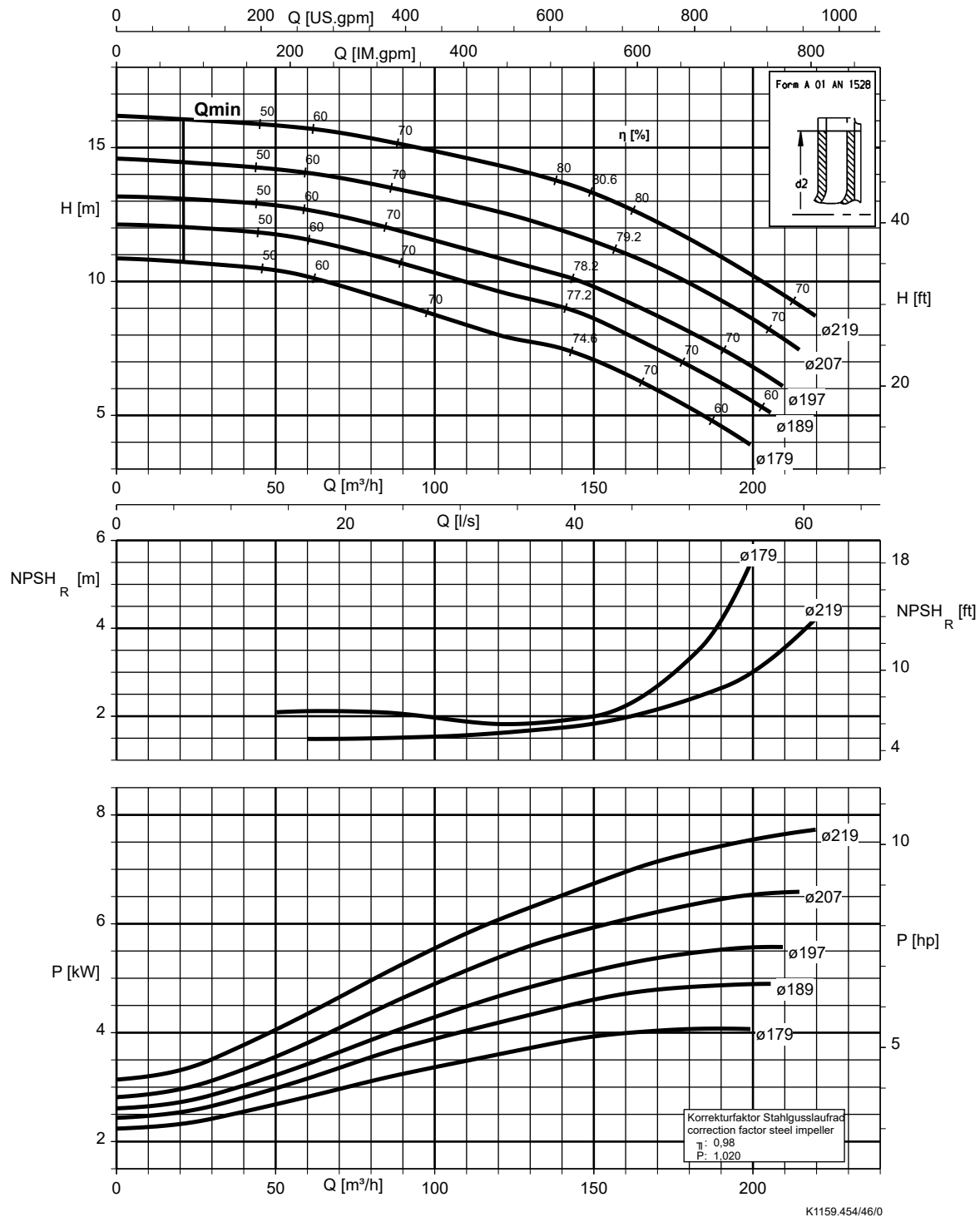
Etaline 100-100-250, n = 1450 rpm



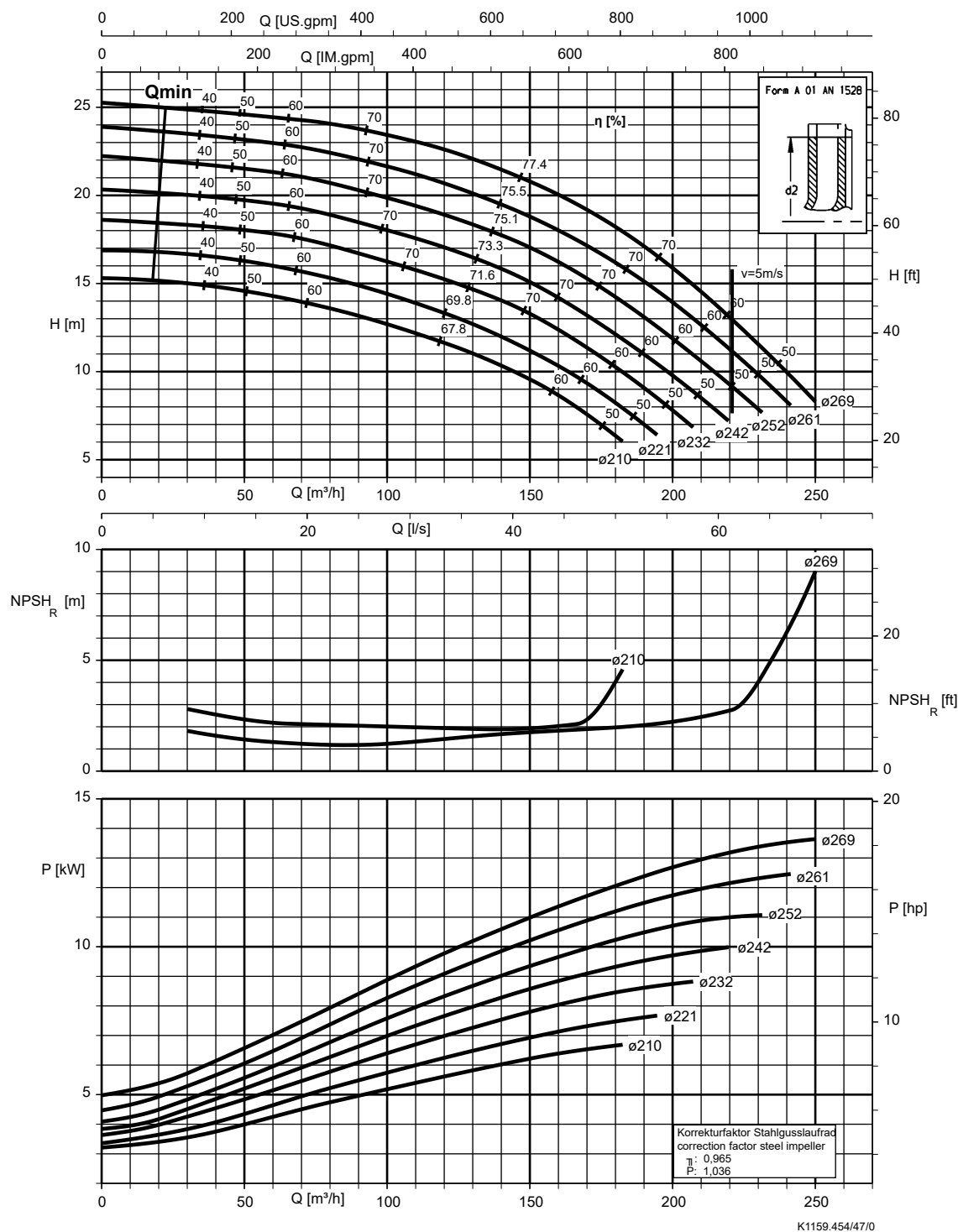
Etaline 125-125-160, n = 1450 rpm



Etaline 125-125-200, n = 1450 rpm

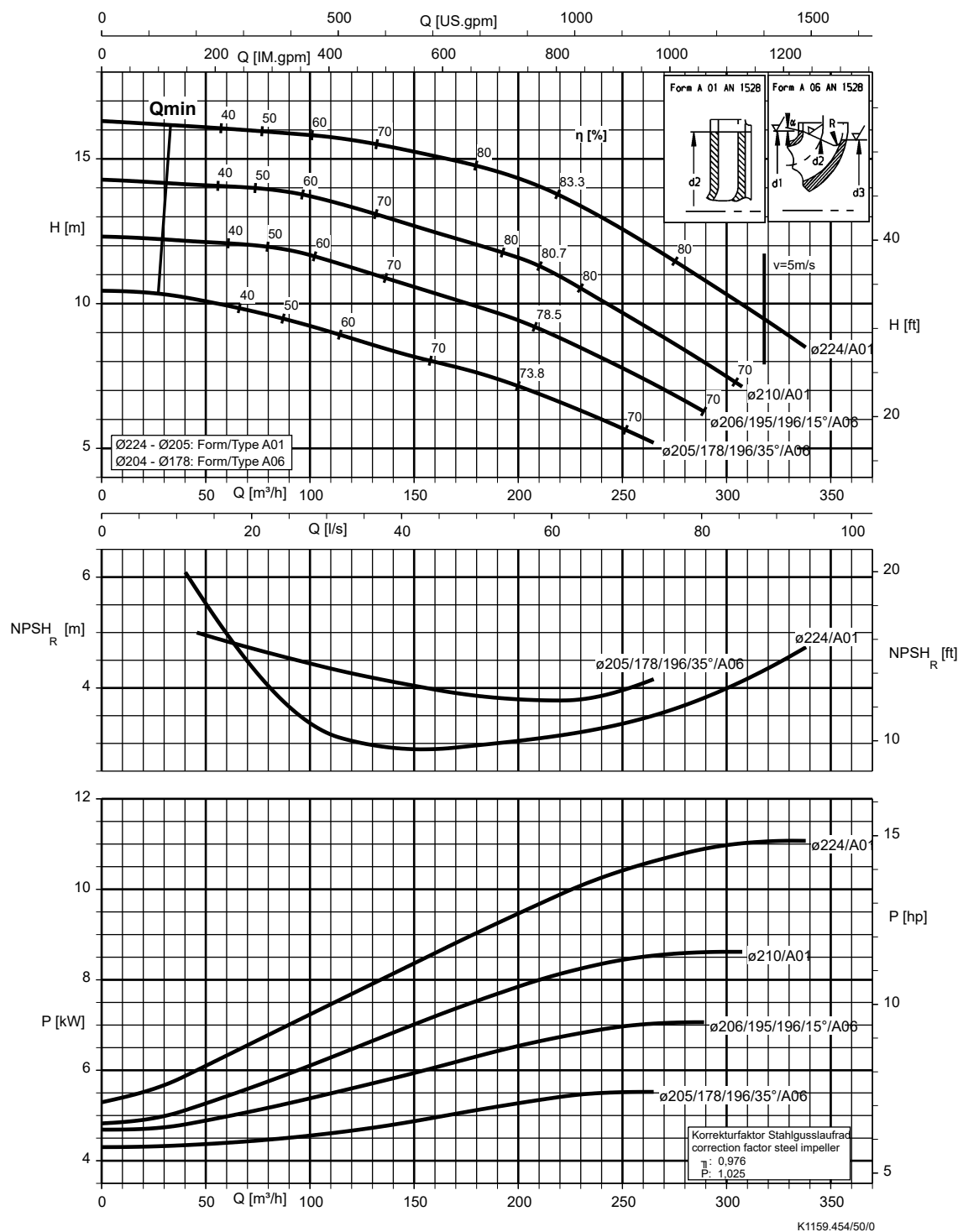


Etaline 125-125-250, n = 1450 rpm

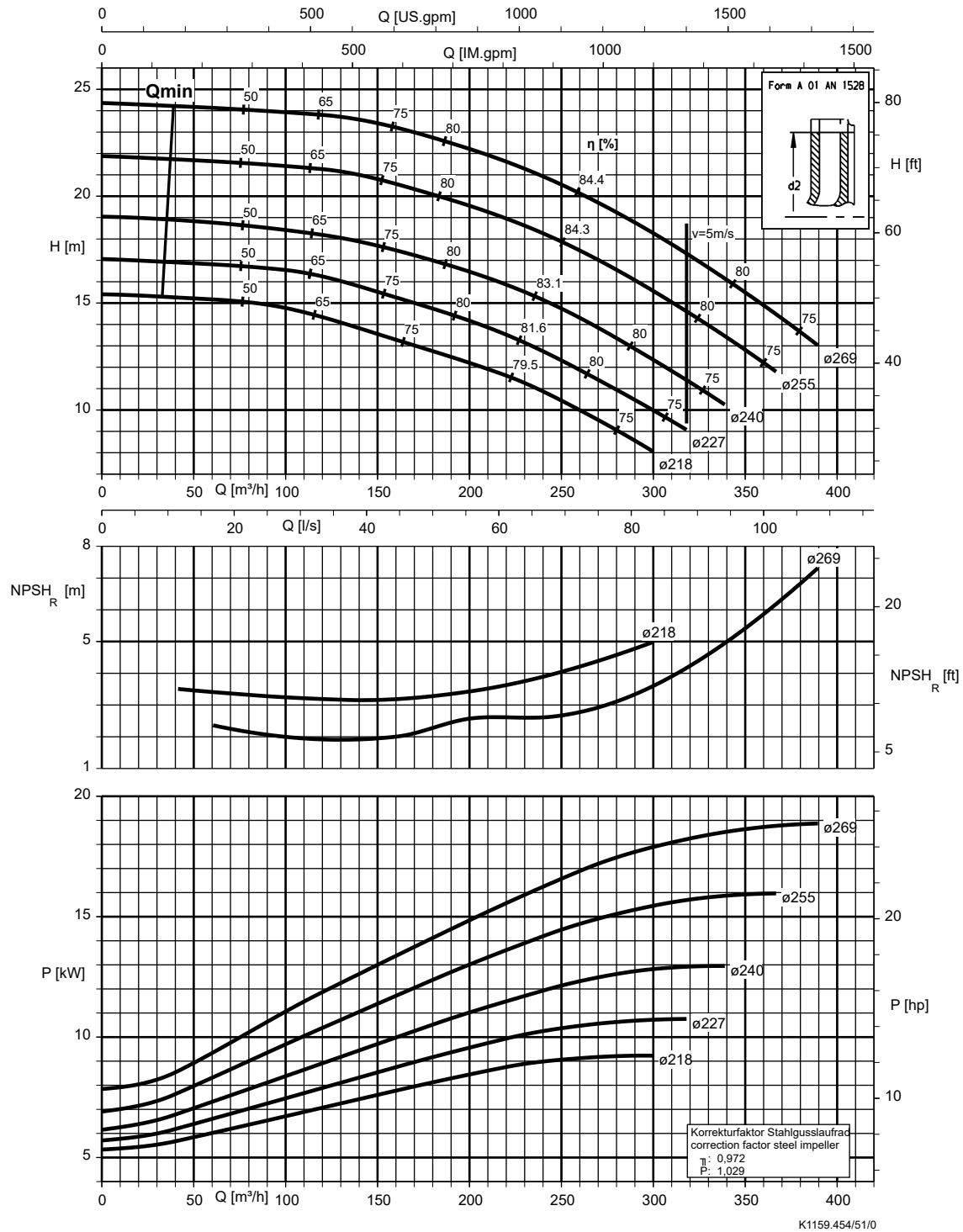


This size is not available for the US market.

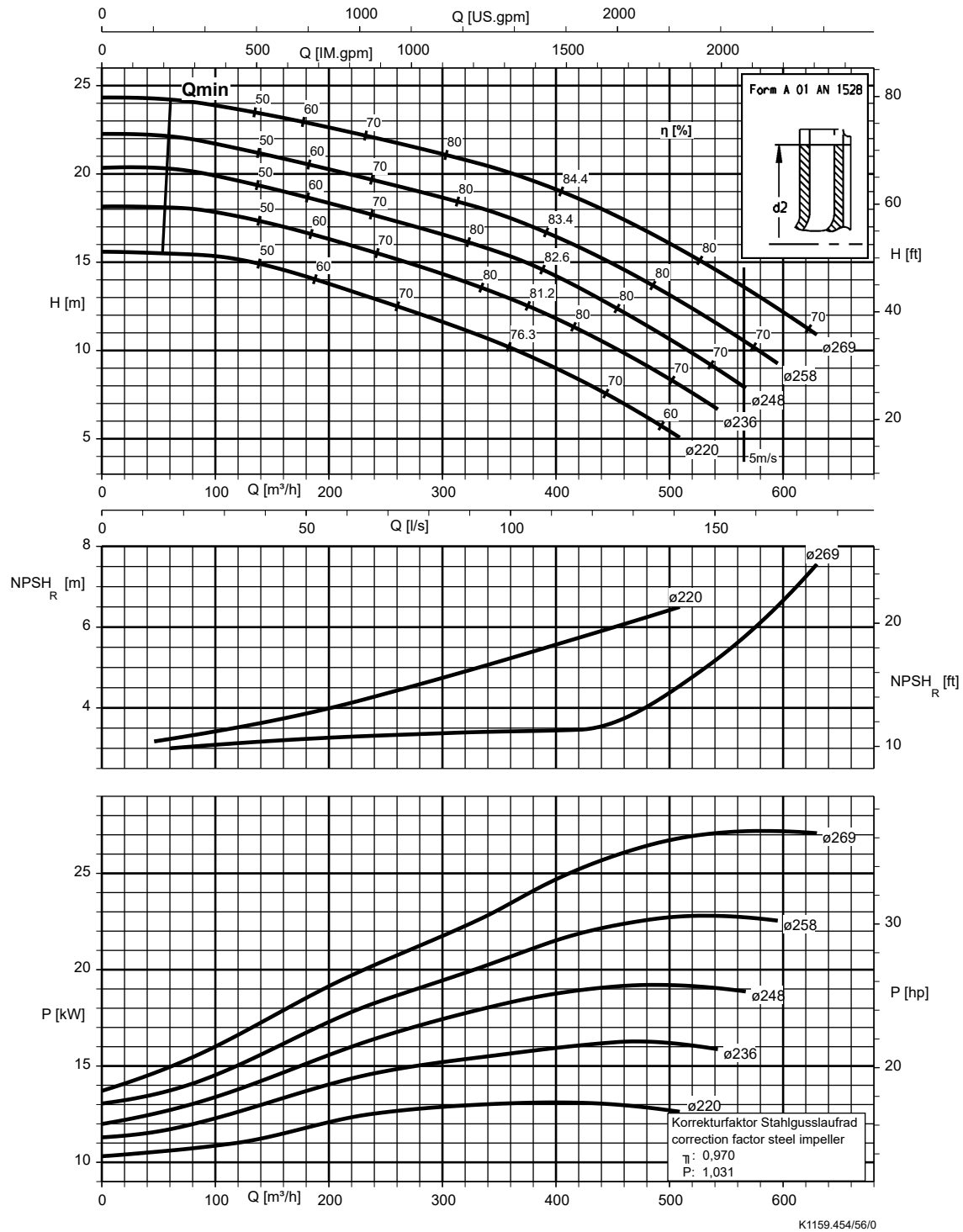
Etaline 150-150-200, n = 1450 rpm



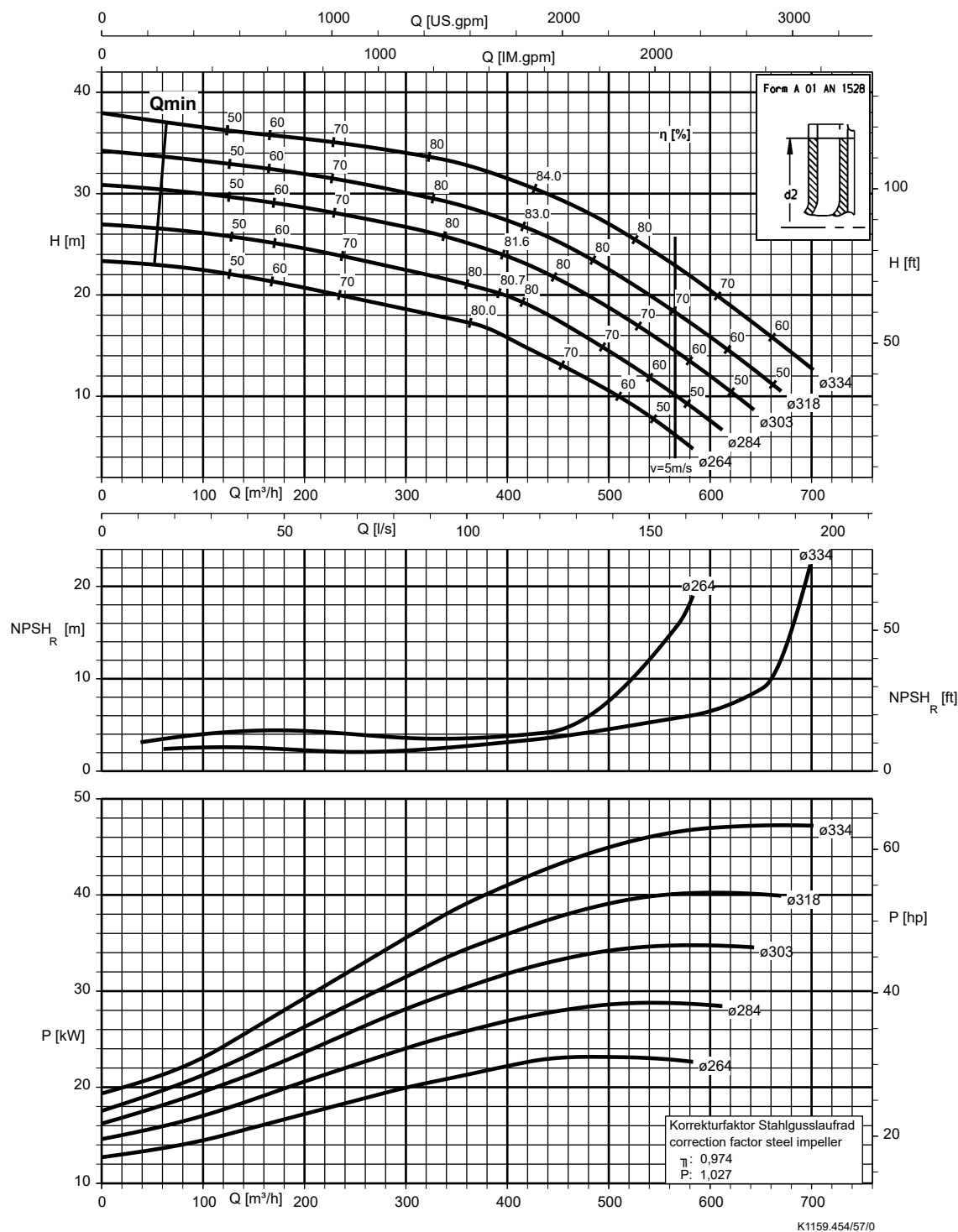
Etaline 150-150-250, n = 1450 rpm



Etaline 200-200-250, n = 1450 rpm

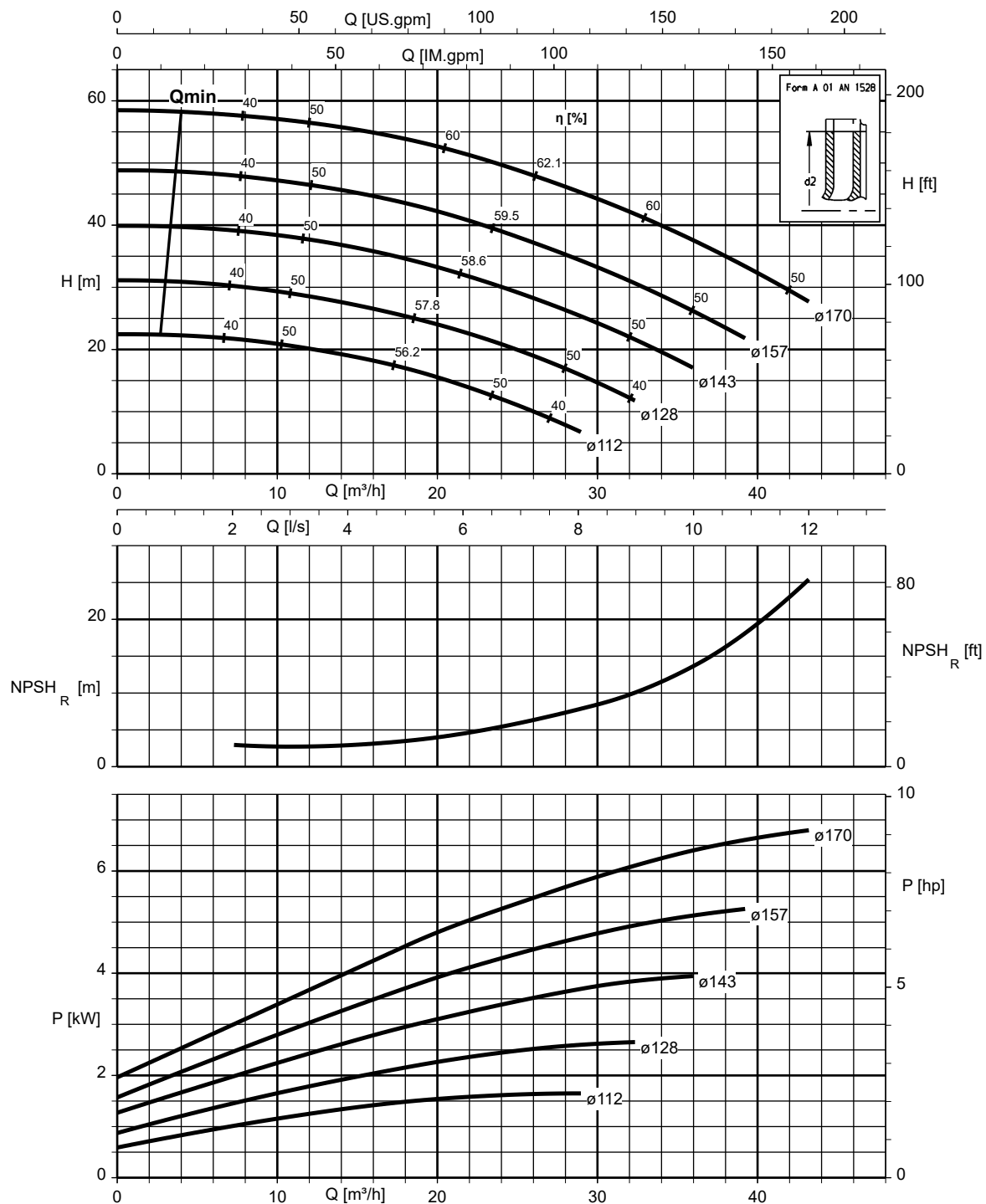


Etaline 200-200-315, n = 1450 rpm



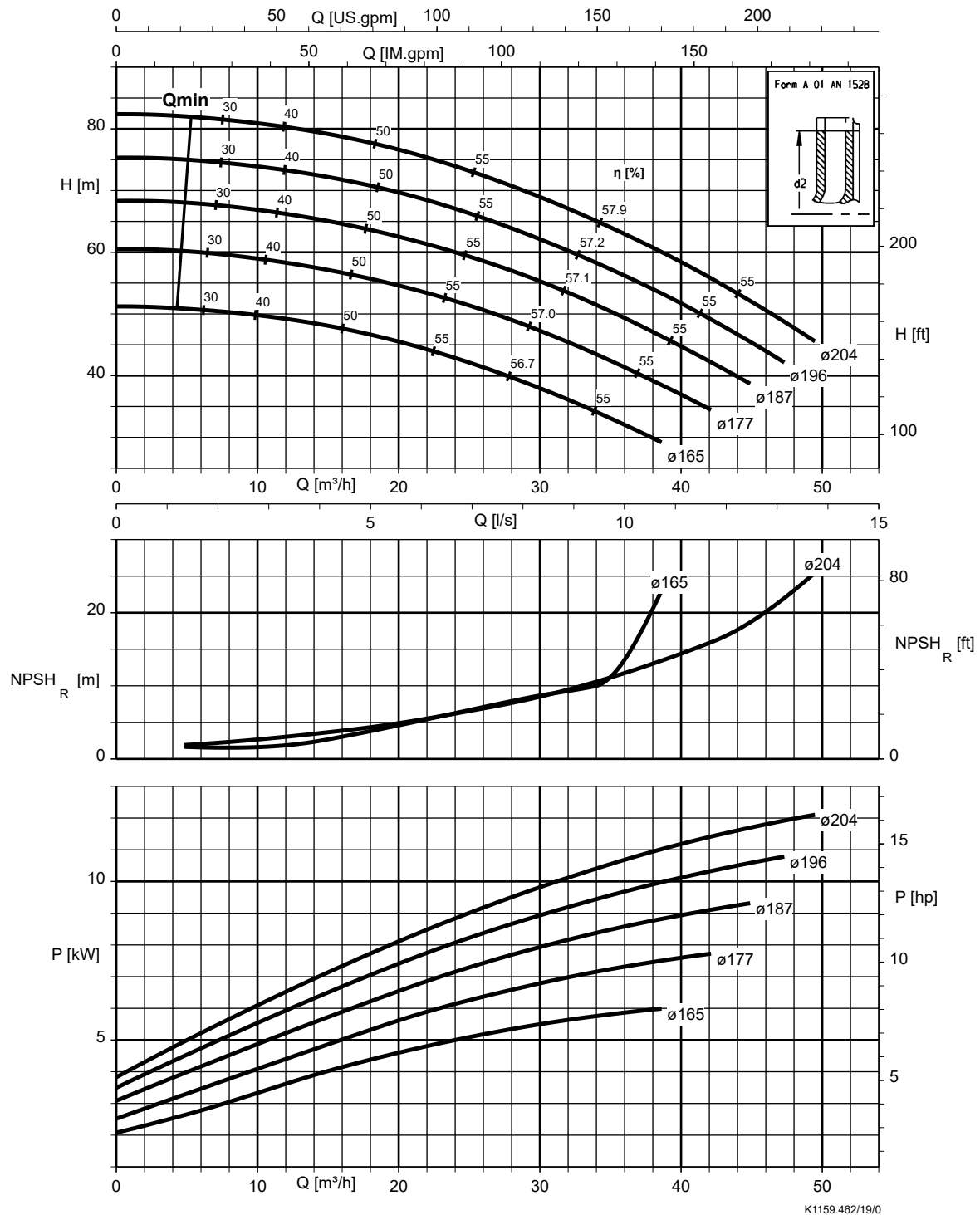
Etaline (fixed speed version), $n = 3500$ rpm

Etaline 032-032-160, $n = 3500$ rpm

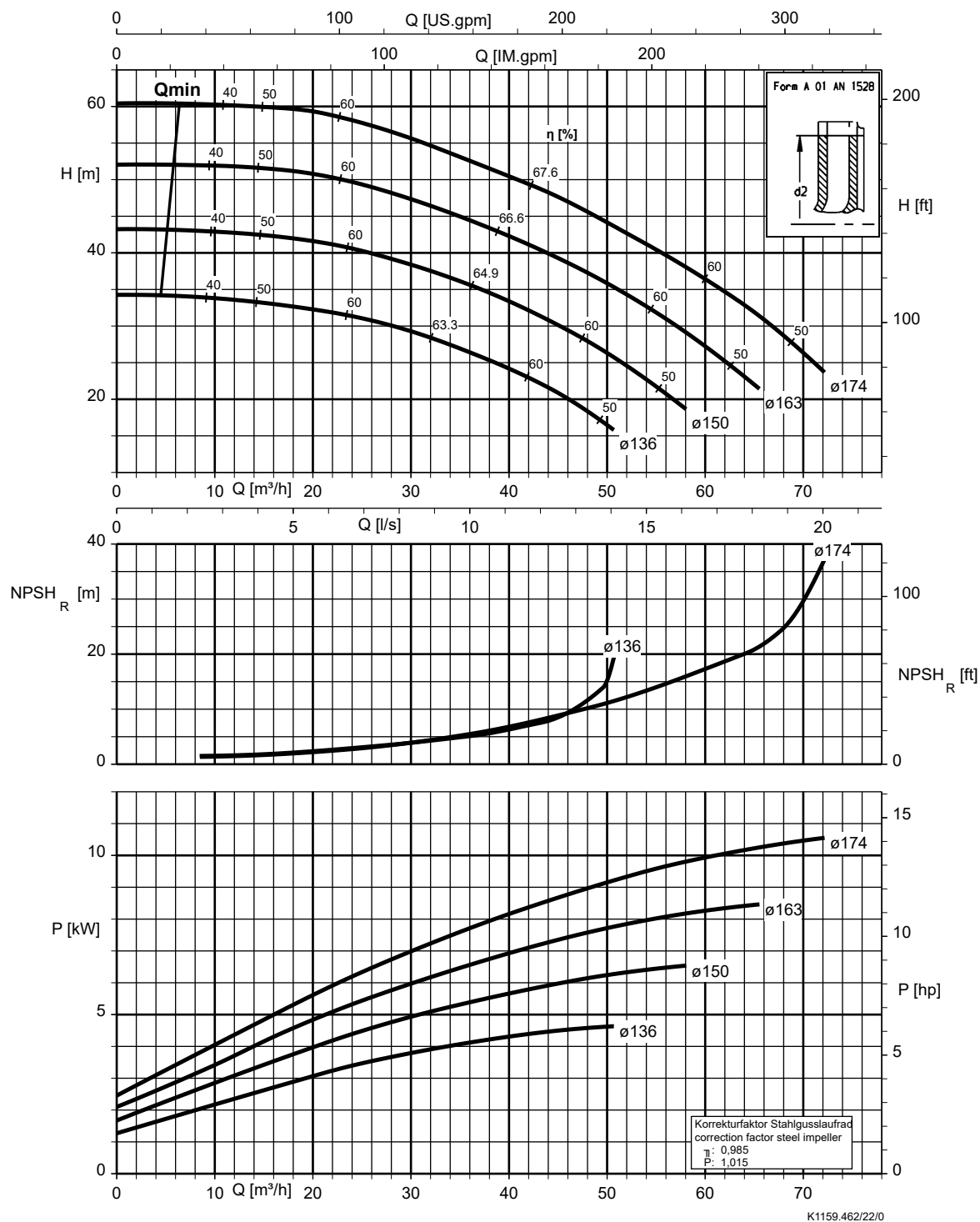


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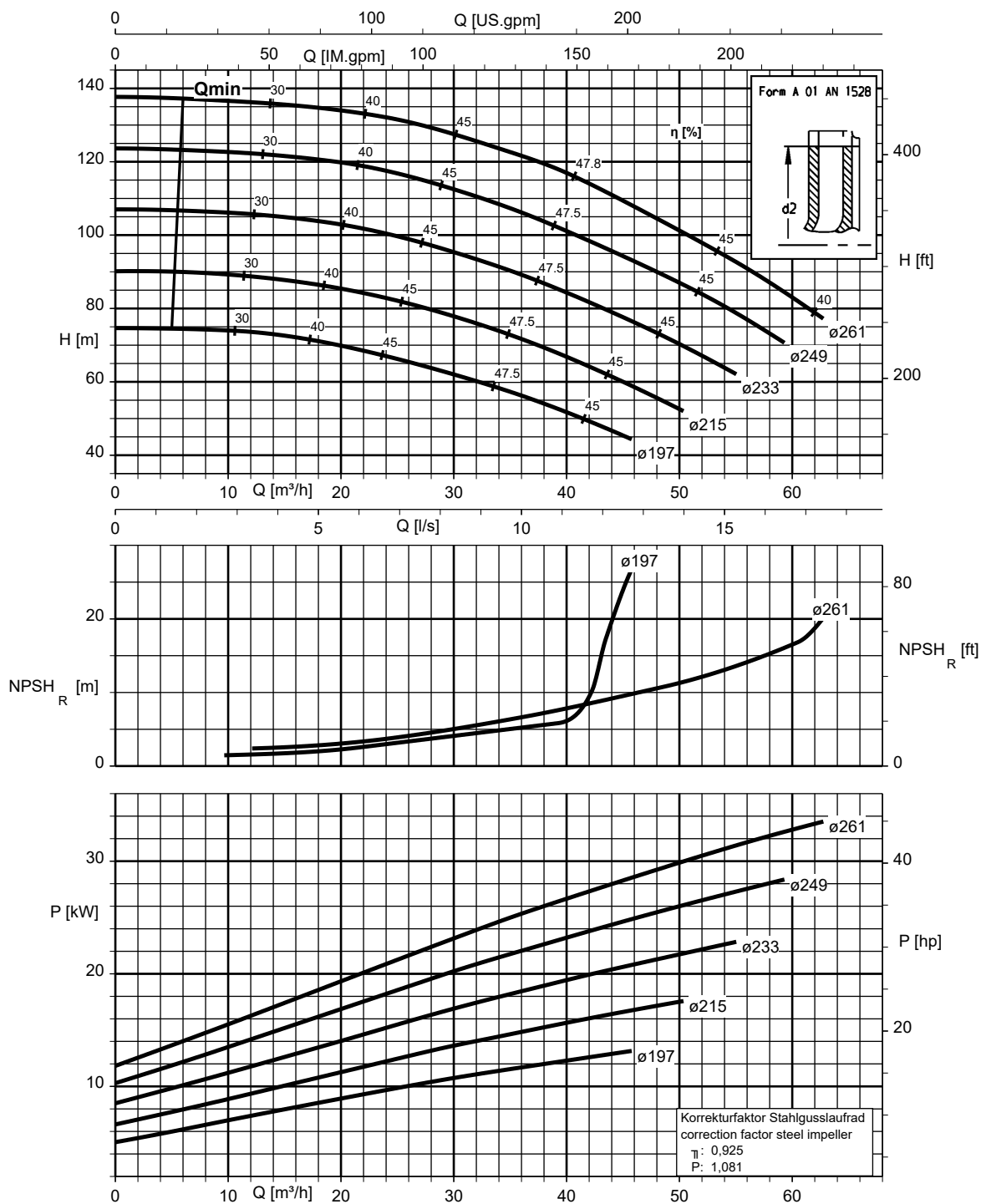
Etaline 032-032-200, n = 3500 rpm



Etaline 040-040-160, n = 3500 rpm

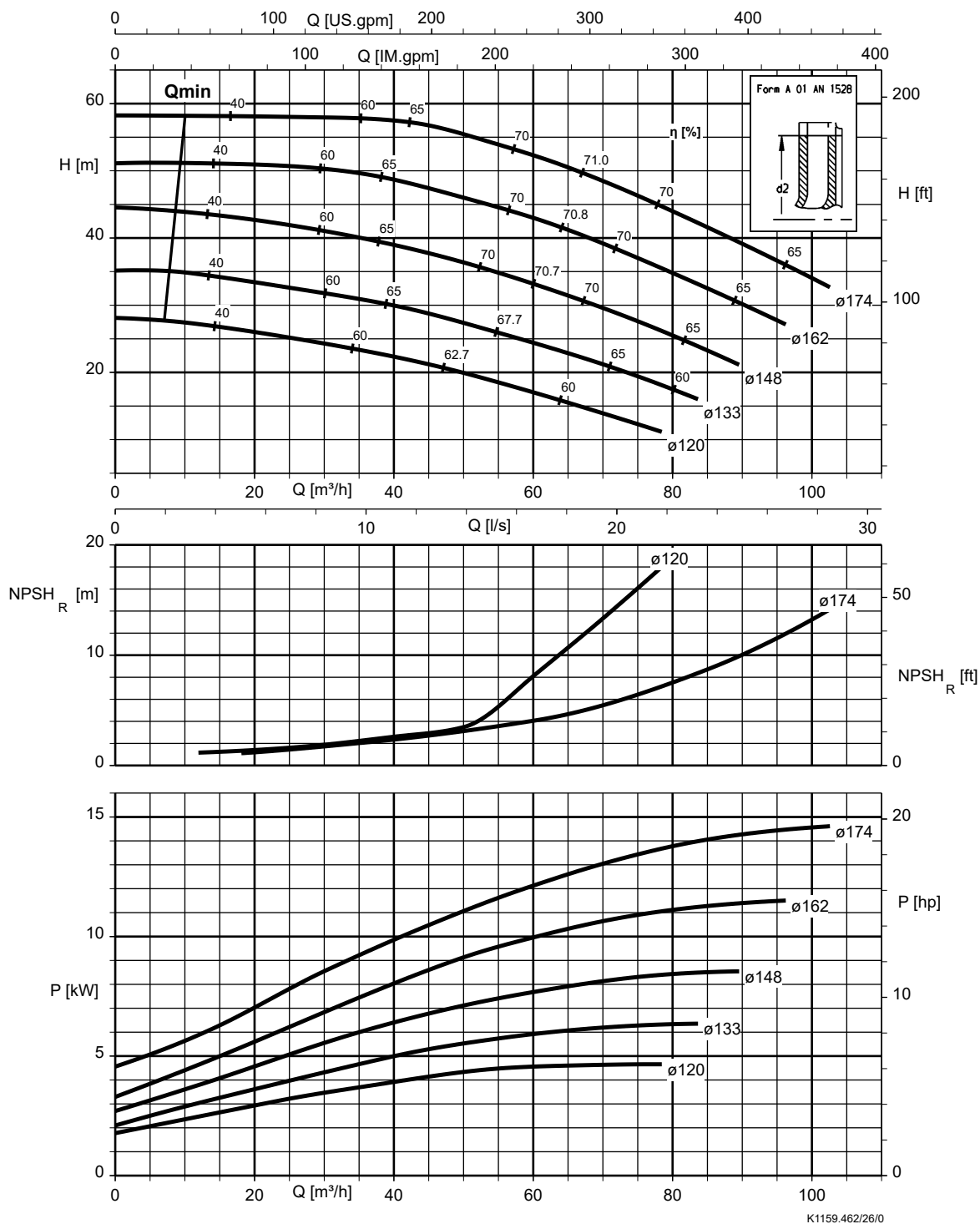


Etaline 040-040-250, n = 3500 rpm

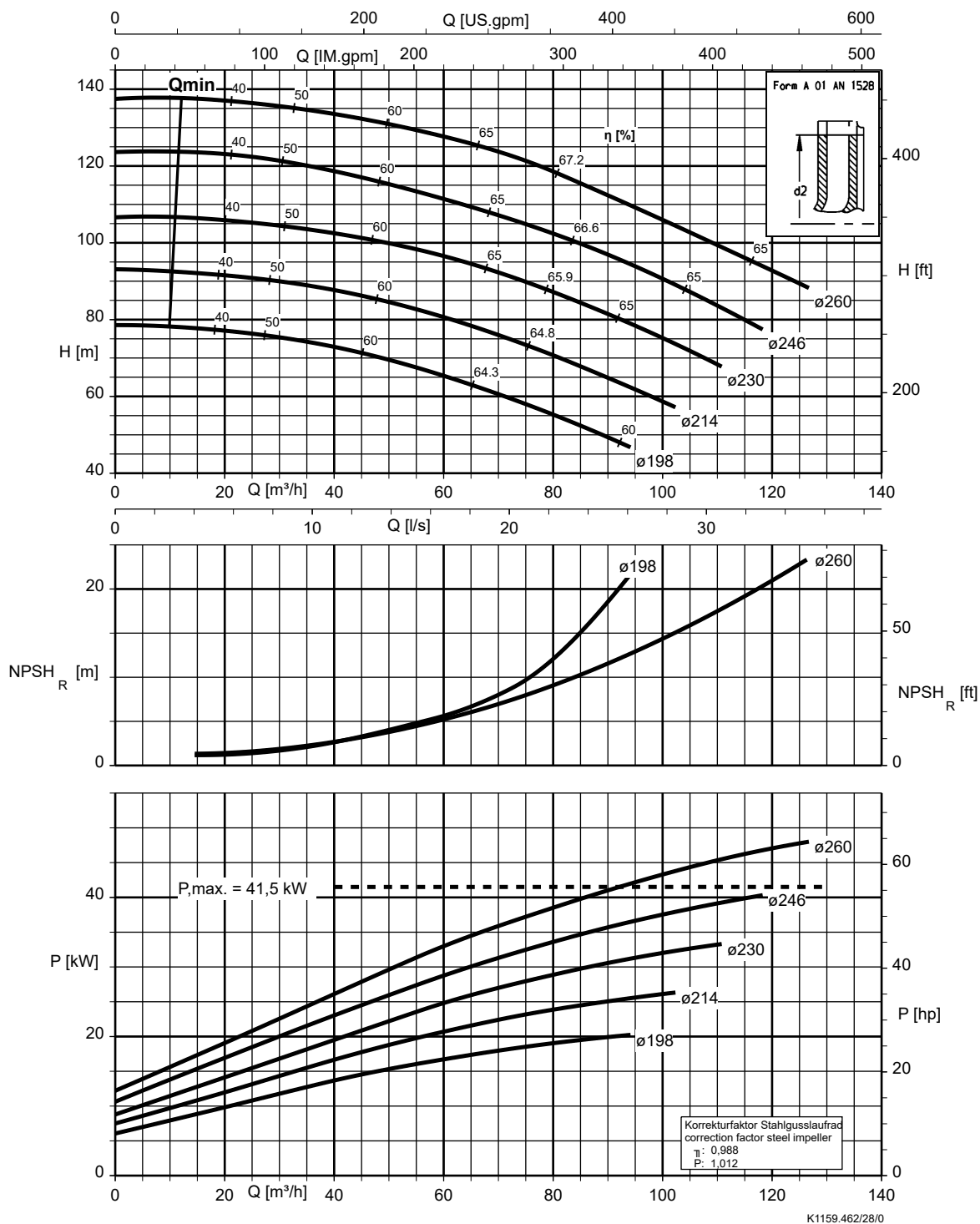


K1159.462/24/0

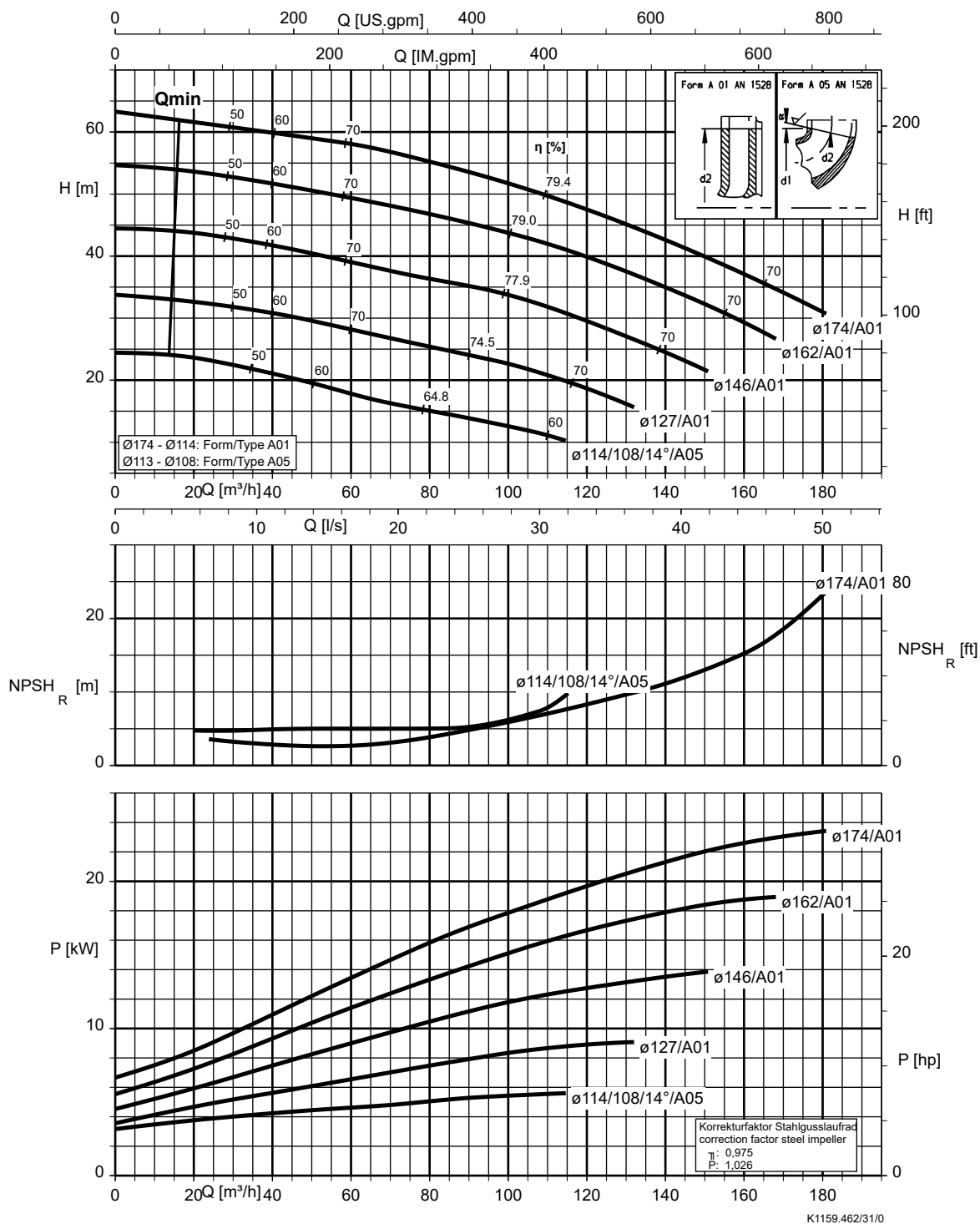
Etaline 050-050-160, n = 3500 rpm



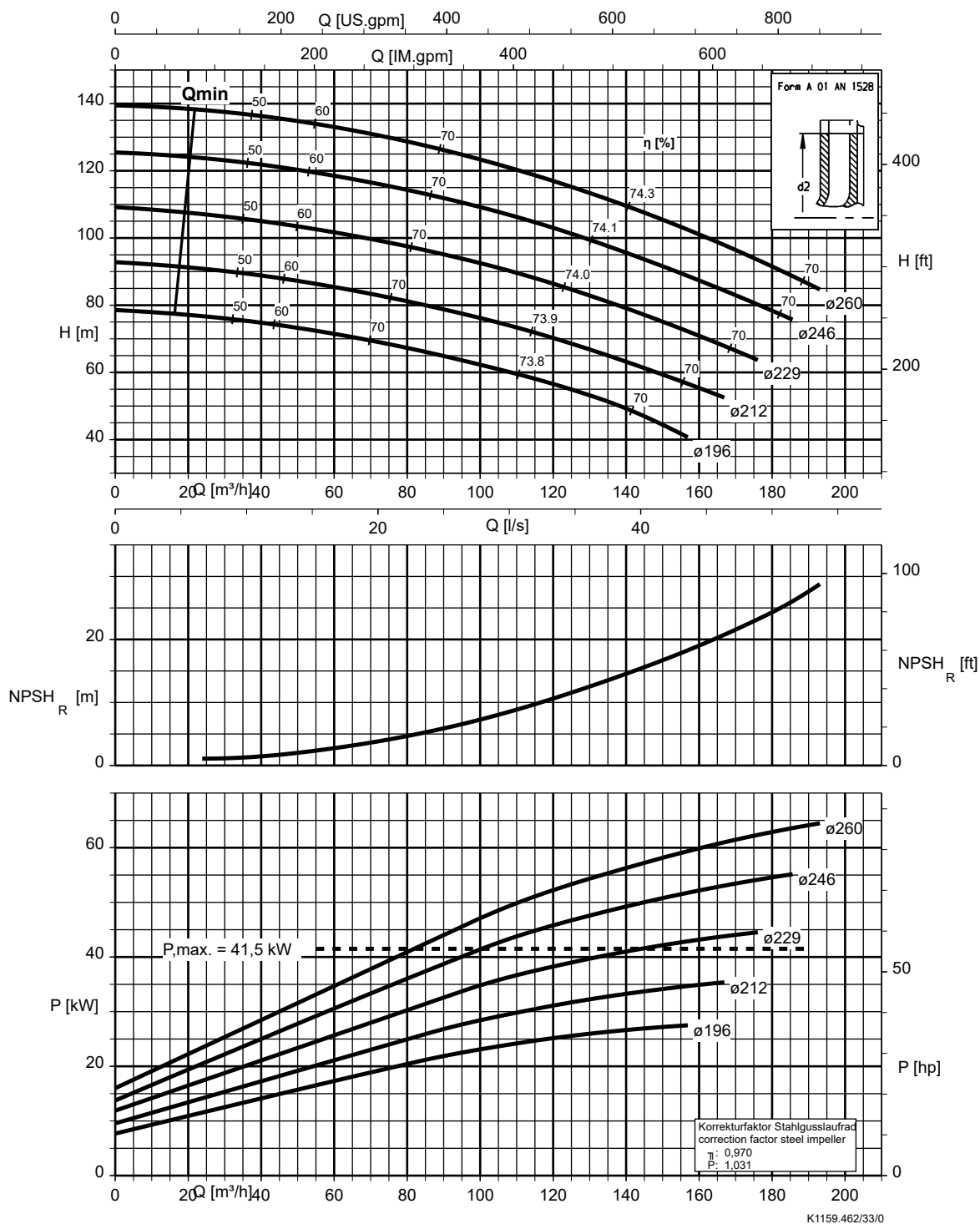
Etaline 050-050-250, n = 3500 rpm



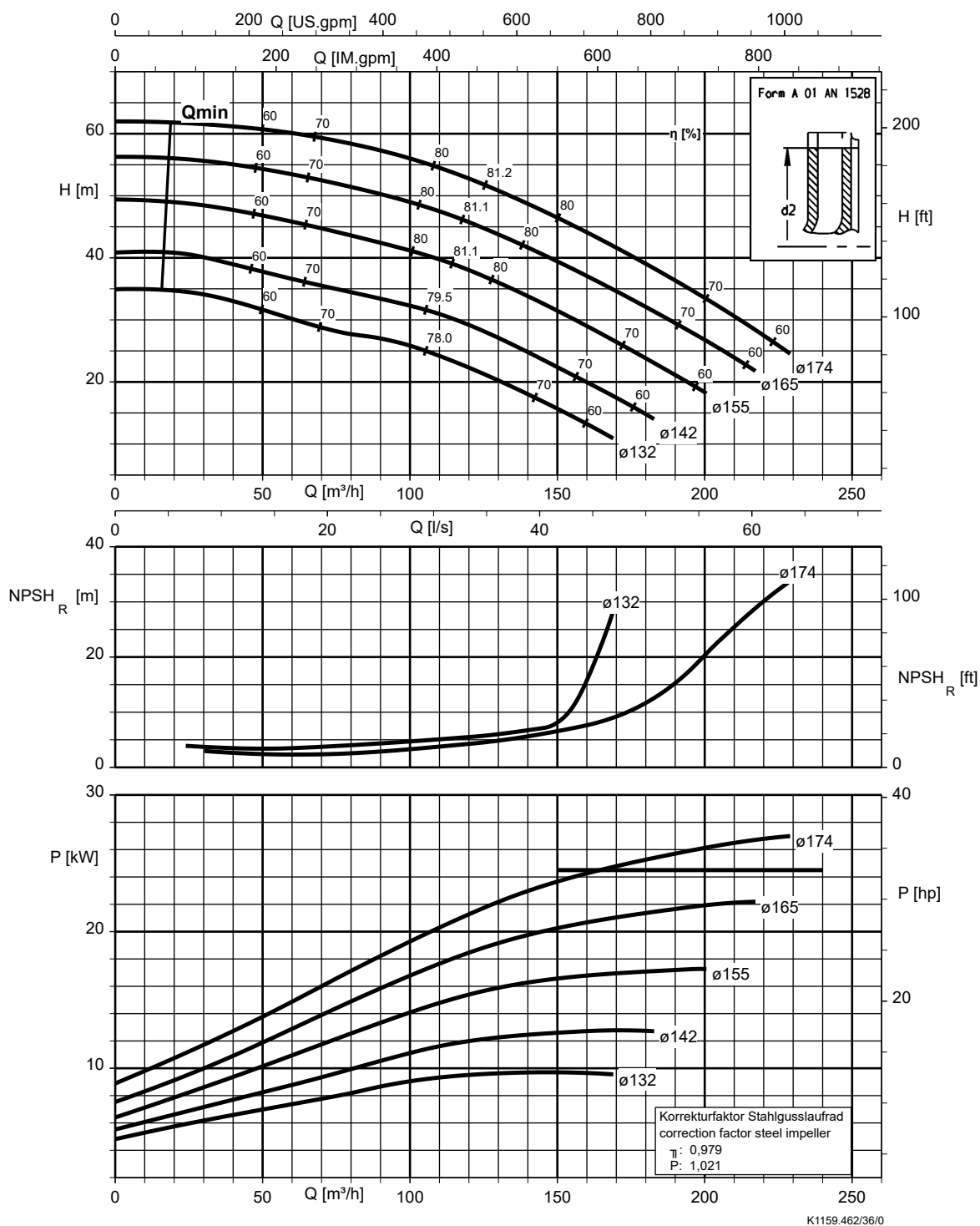
Etaline 065-065-160, n = 3500 rpm



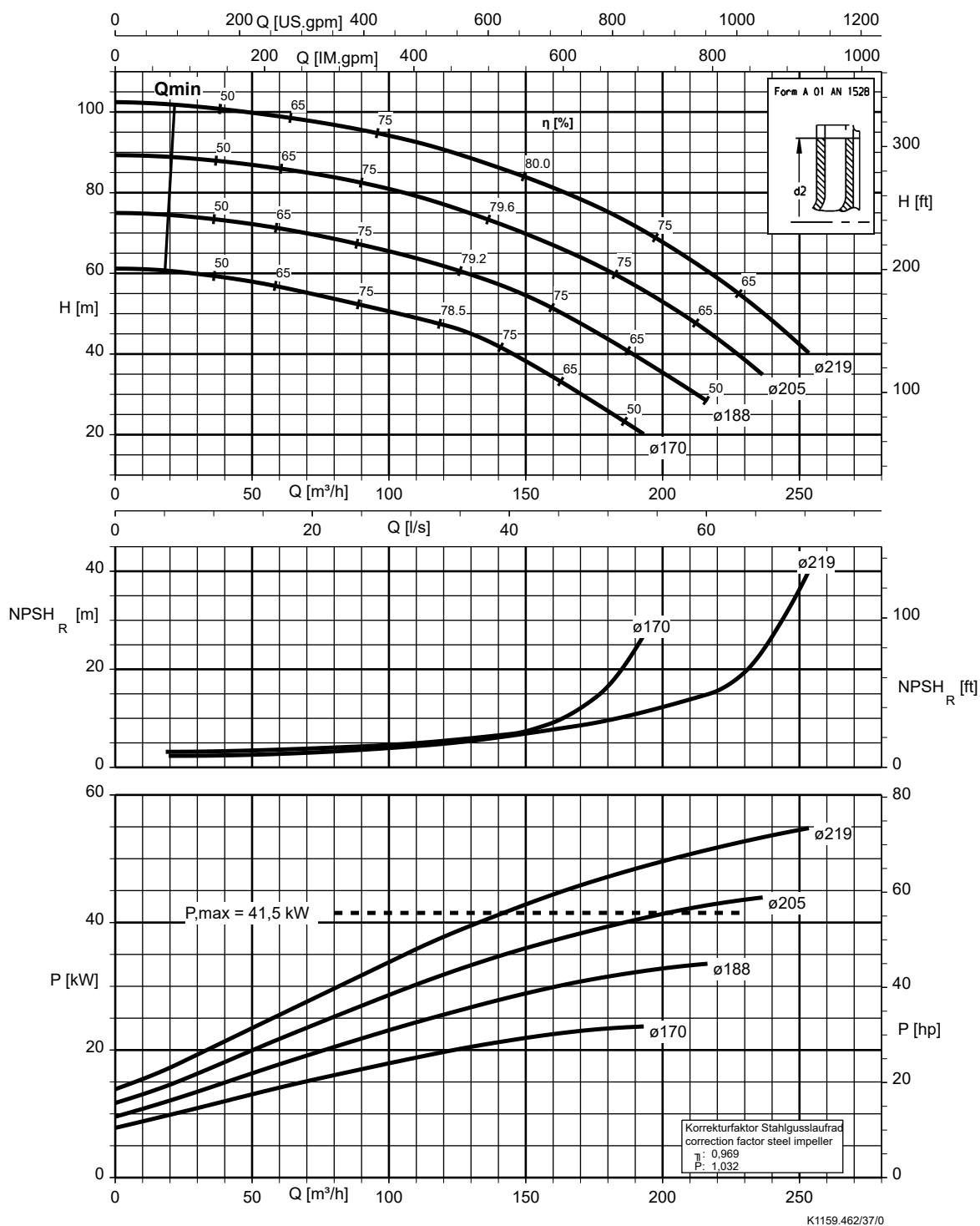
Etaline 065-065-250, n = 3500 rpm



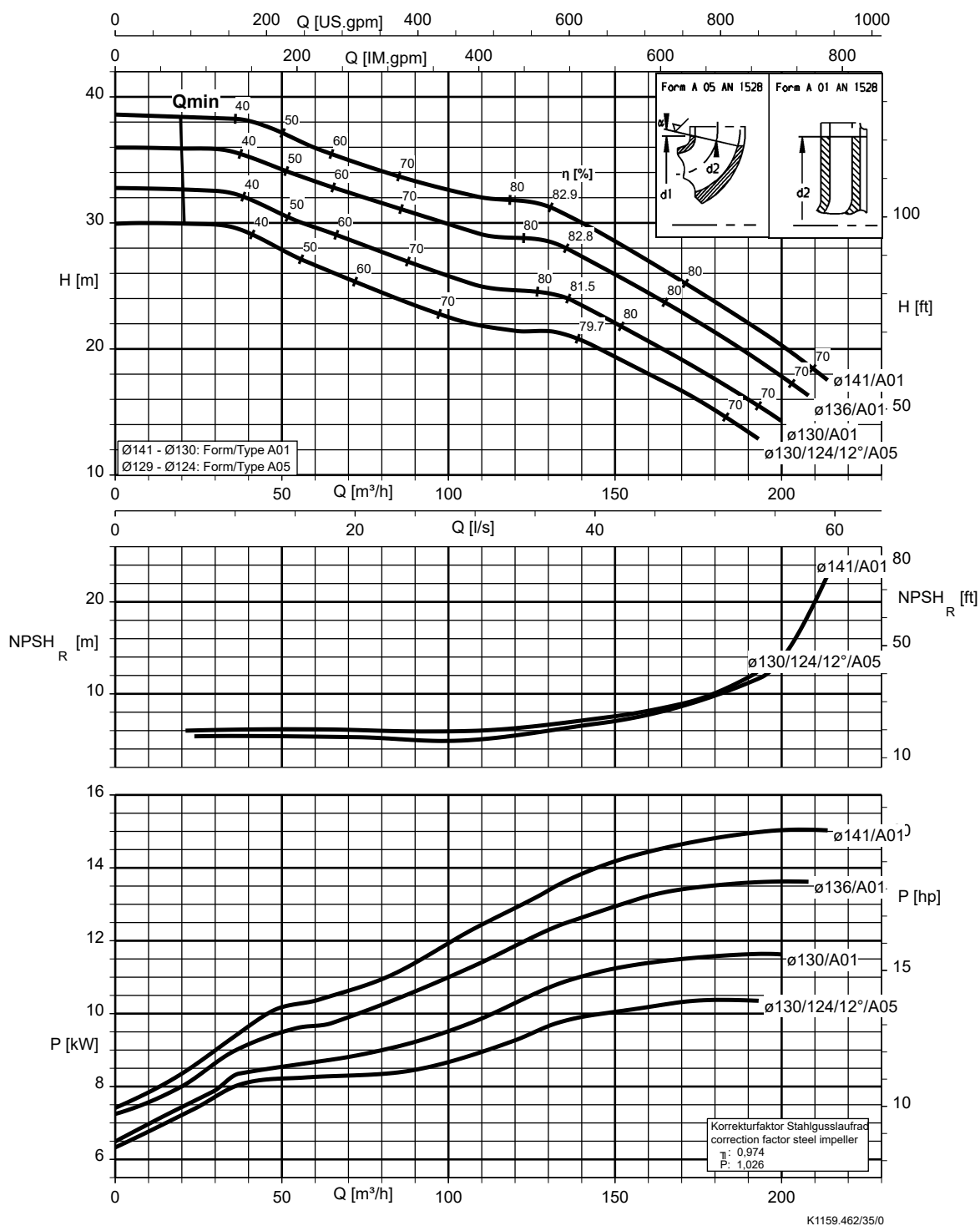
Etaline 080-080-160, n = 3500 rpm



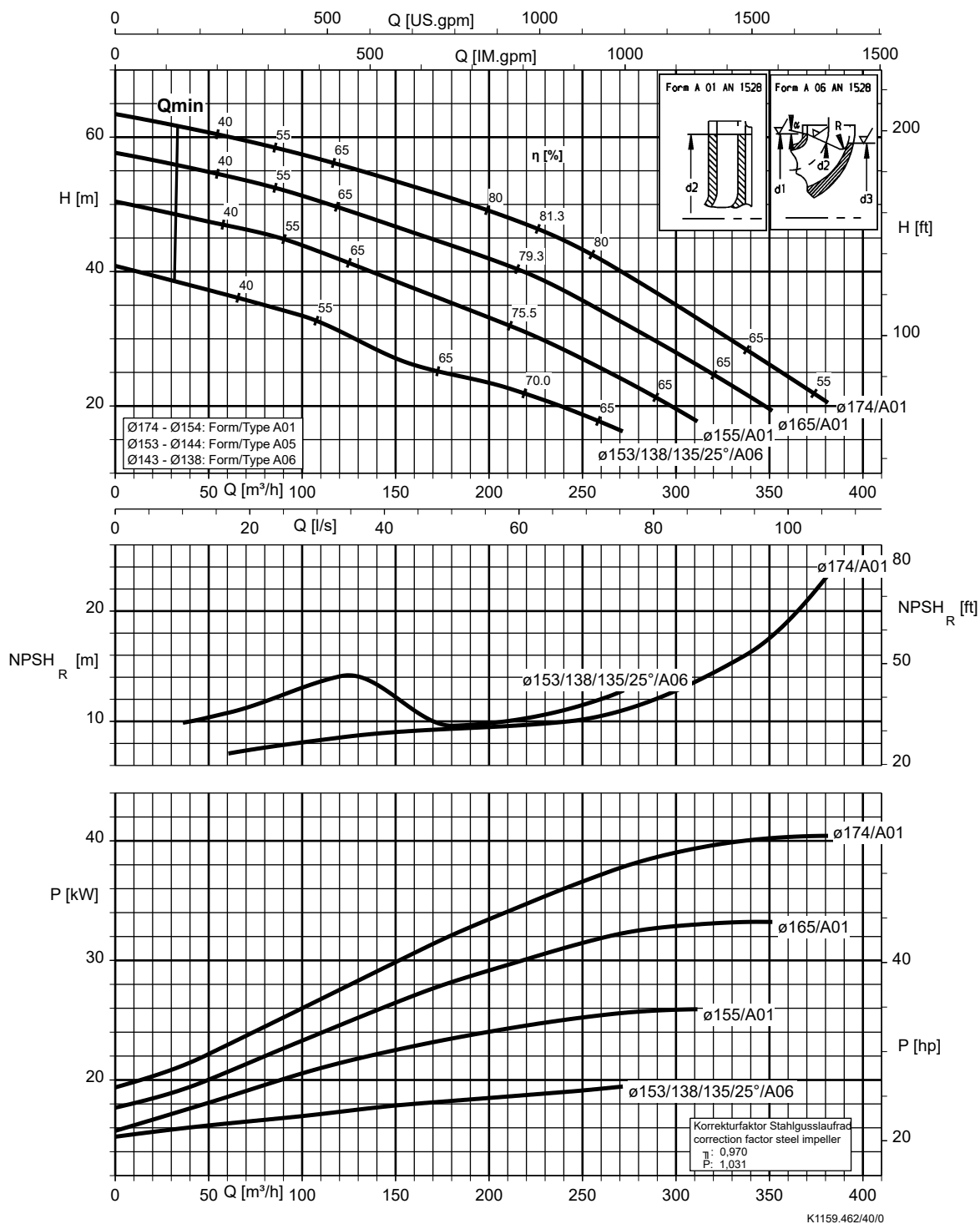
Etaline 080-080-200, n = 3500 rpm



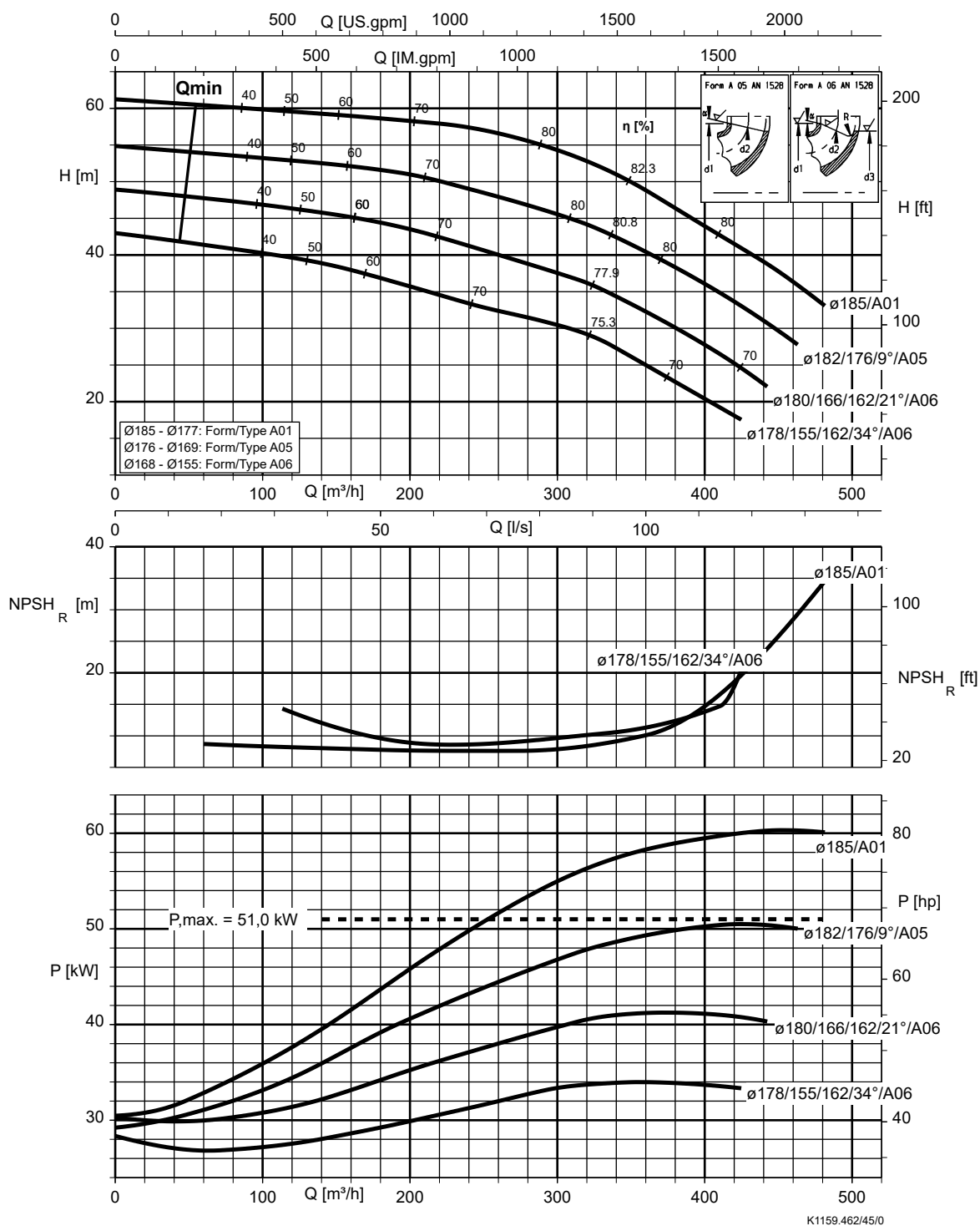
Etaline 100-100-125, n = 3500 rpm



Etaline 100-100-160, n = 3500 rpm

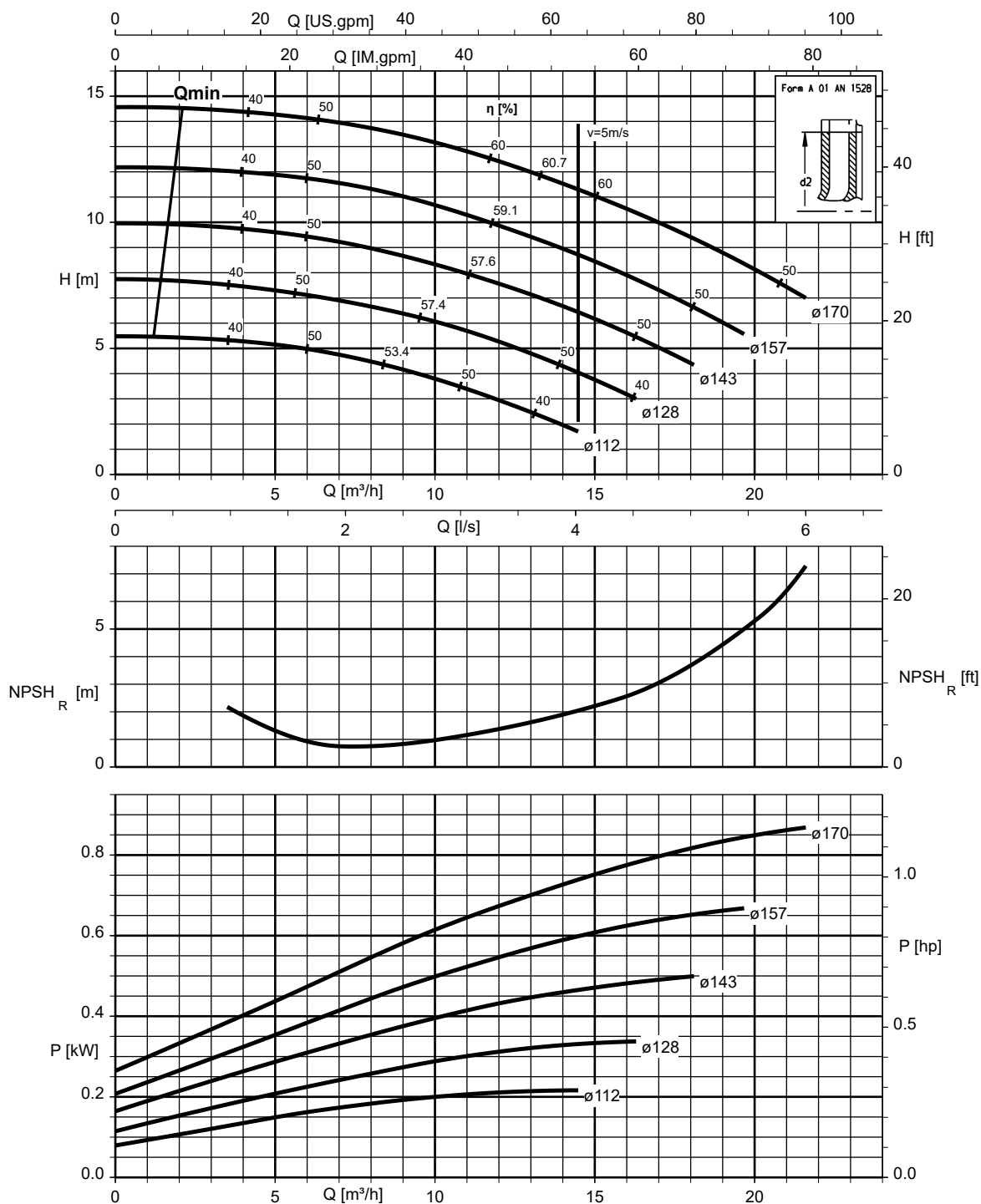


Etaline 125-125-160, n = 3500 rpm



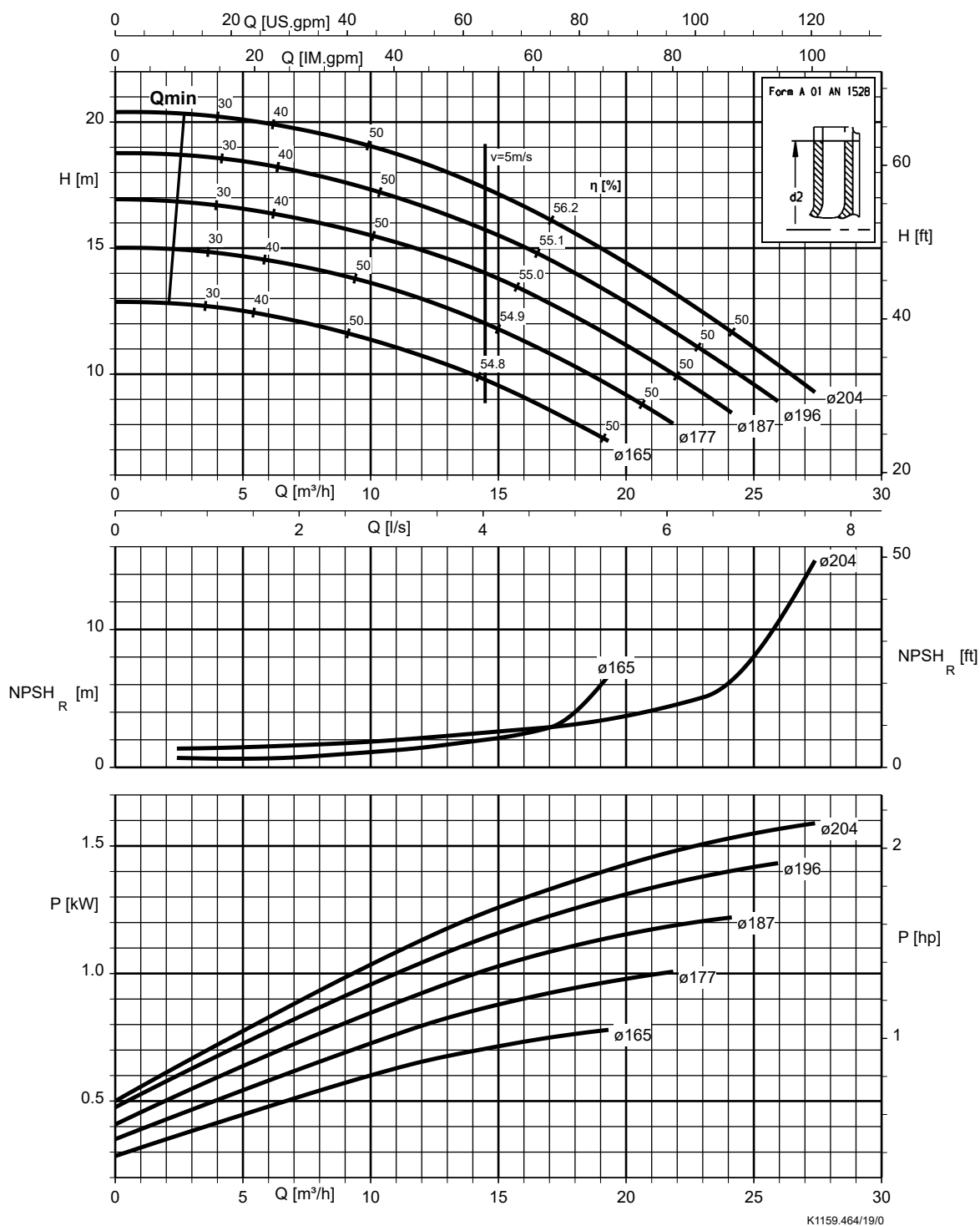
Etaline (fixed speed version), $n = 1750$ rpm

Etaline 032-032-160, $n = 1750$ rpm

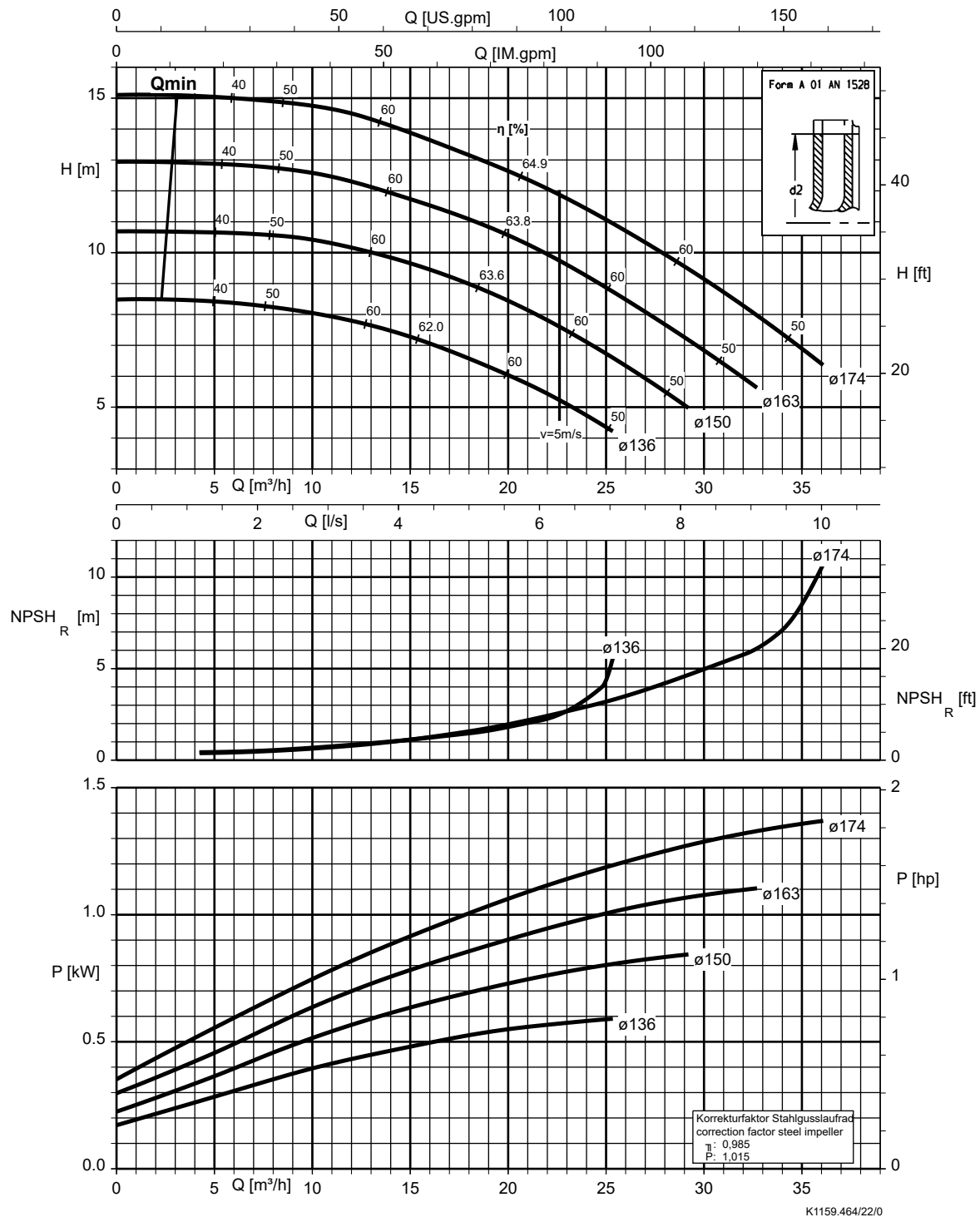


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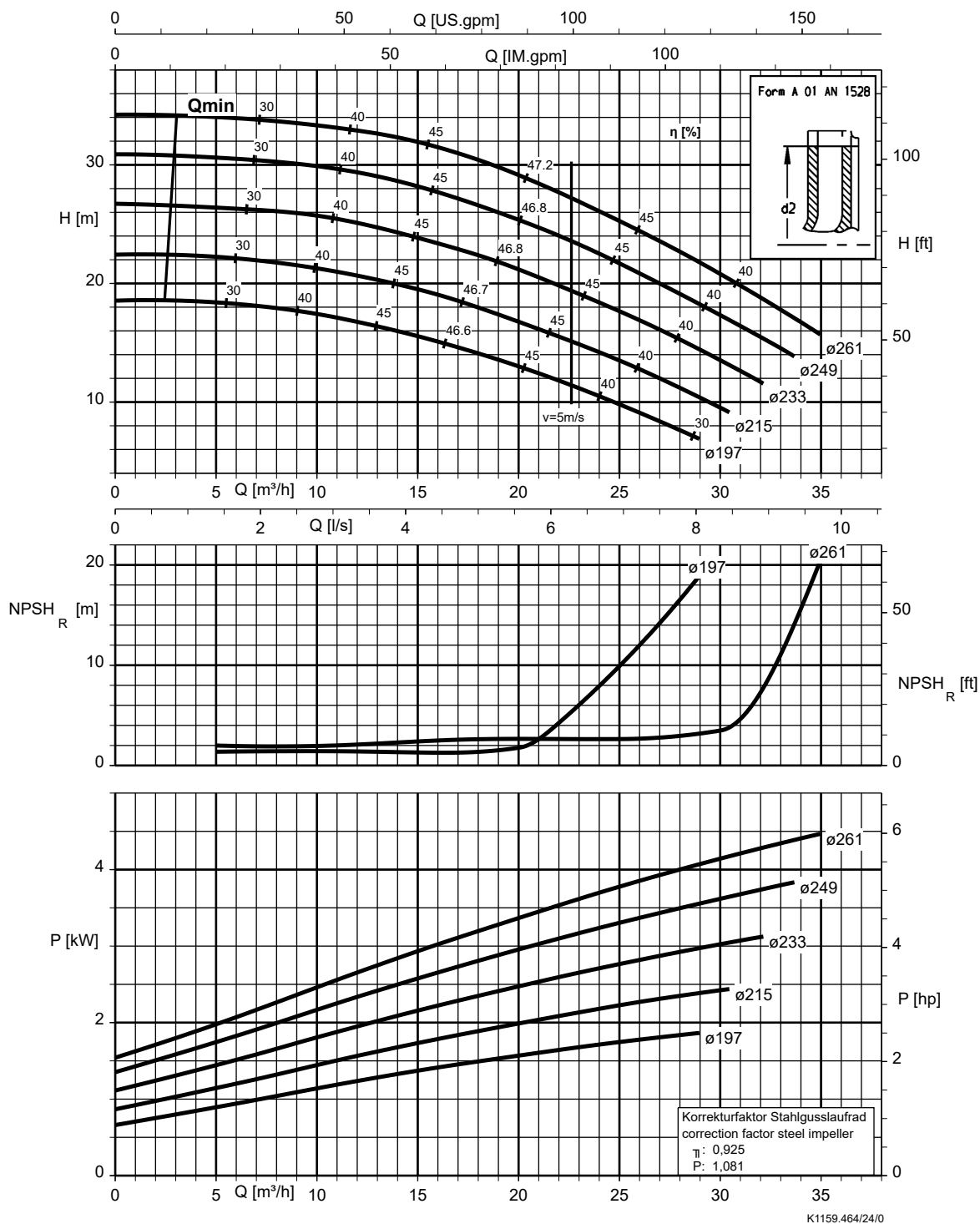
Etaline 032-032-200, n = 1750 rpm



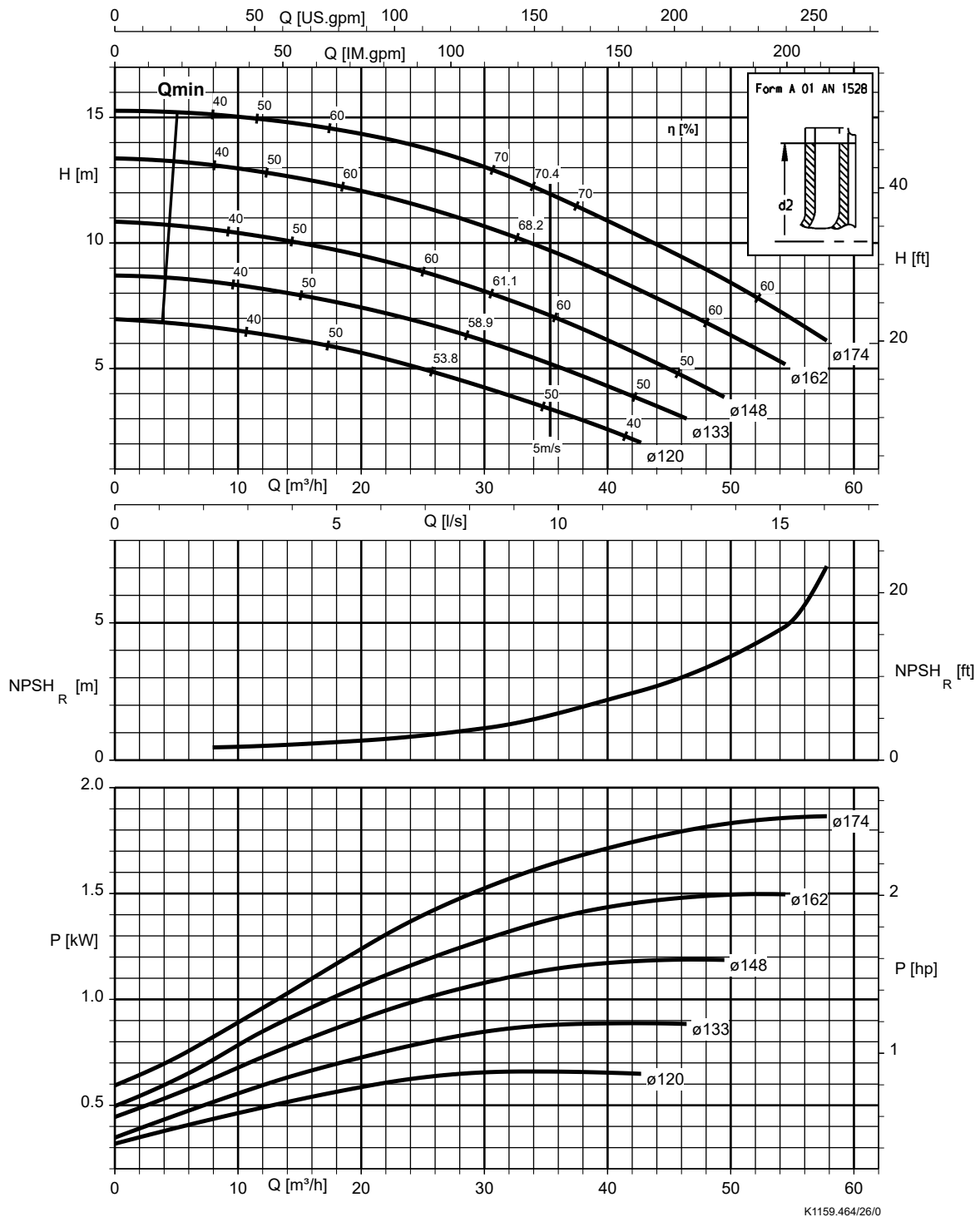
Etaline 040-040-160, n = 1750 rpm



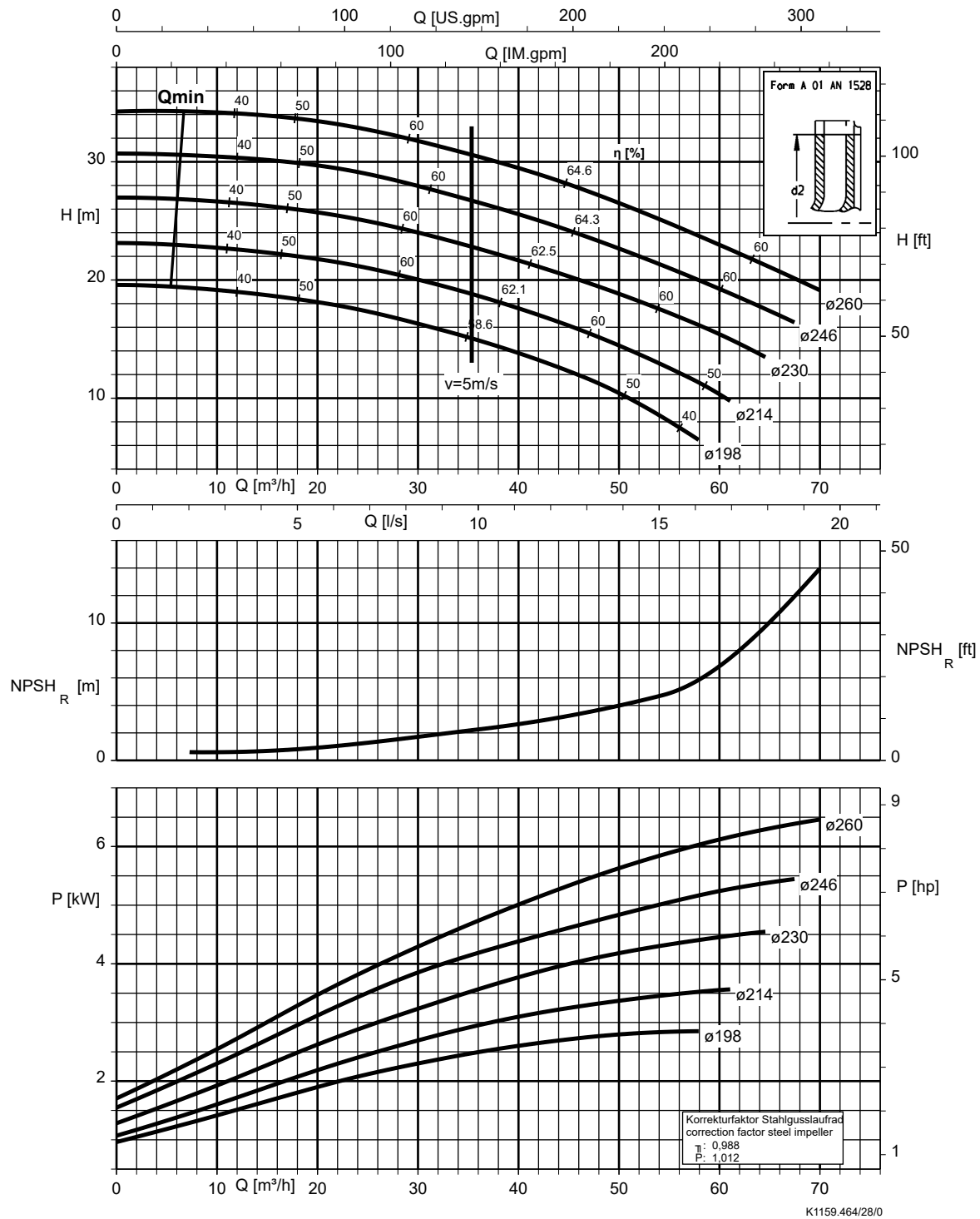
Etaline 040-040-250, n = 1750 rpm



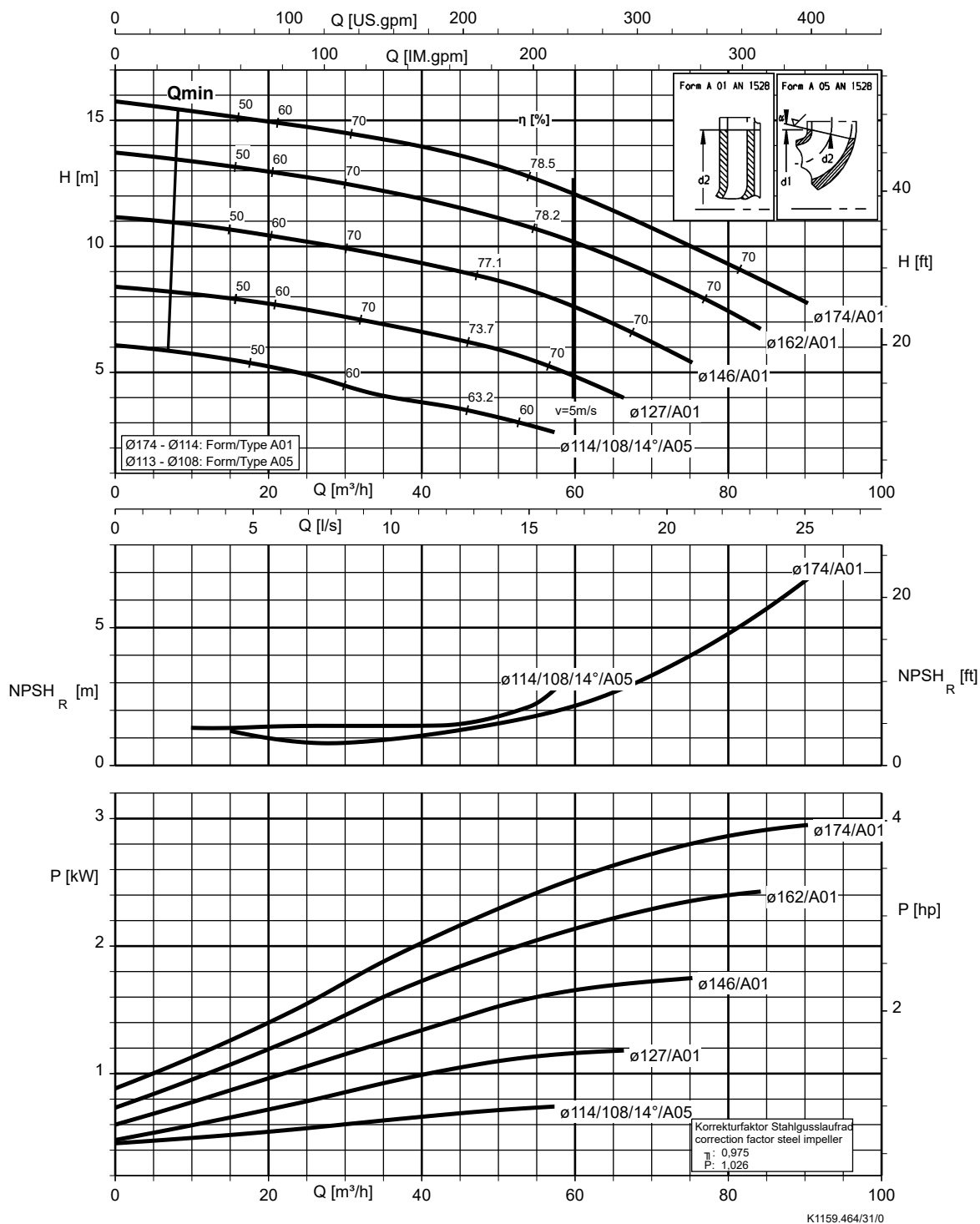
Etaline 050-050-160, n = 1750 rpm



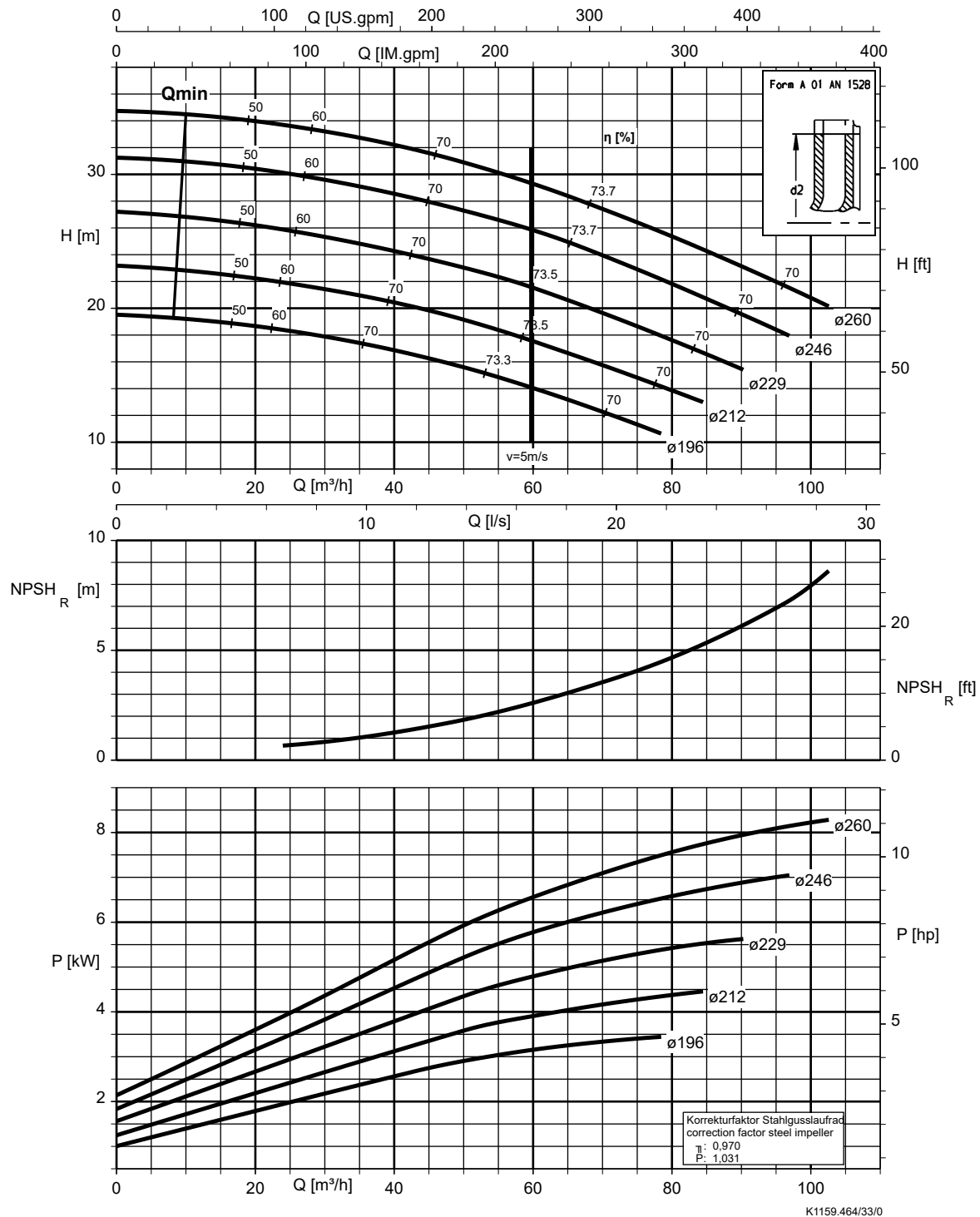
Etaline 050-050-250, n = 1750 rpm



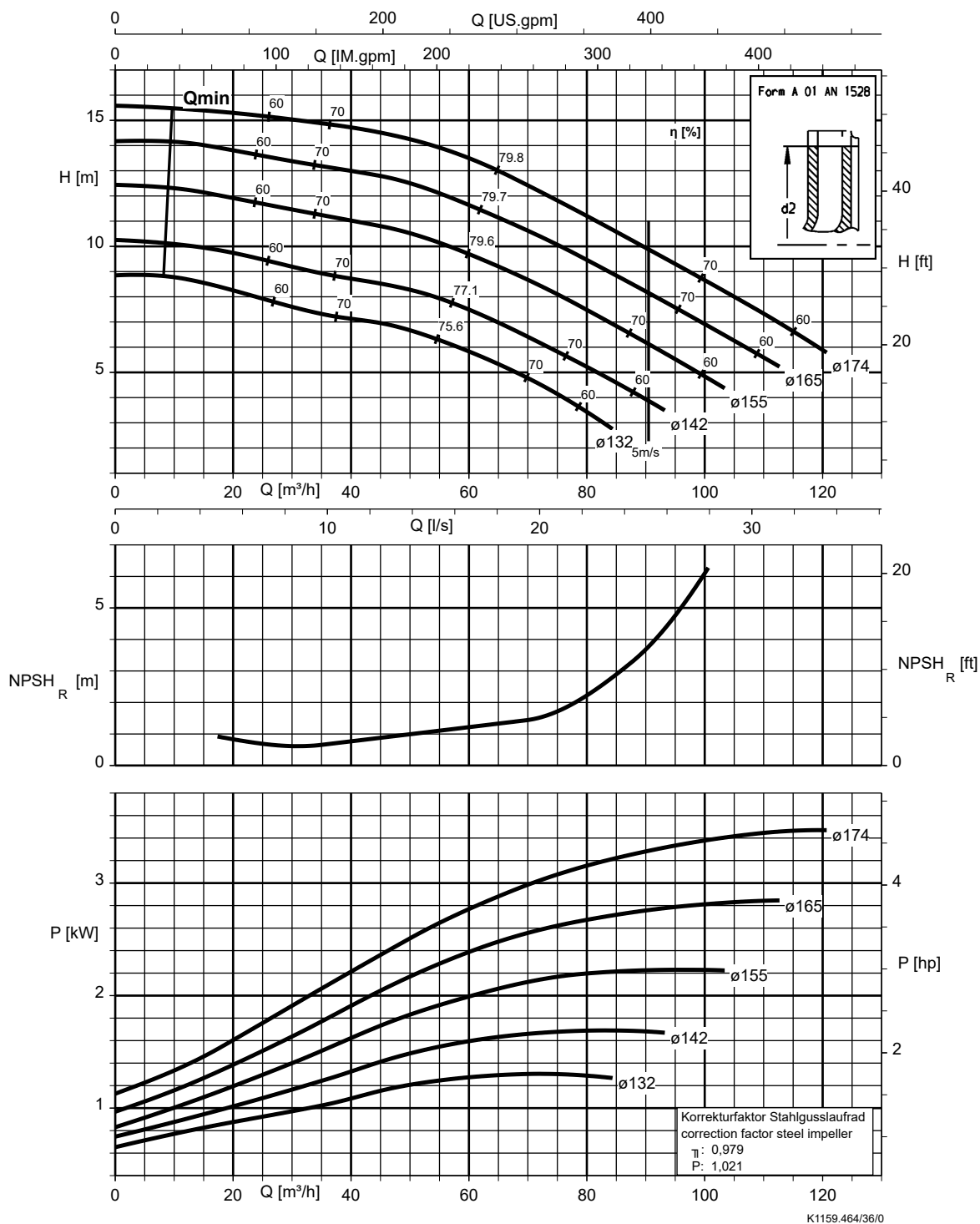
Etaline 065-065-160, n = 1750 rpm



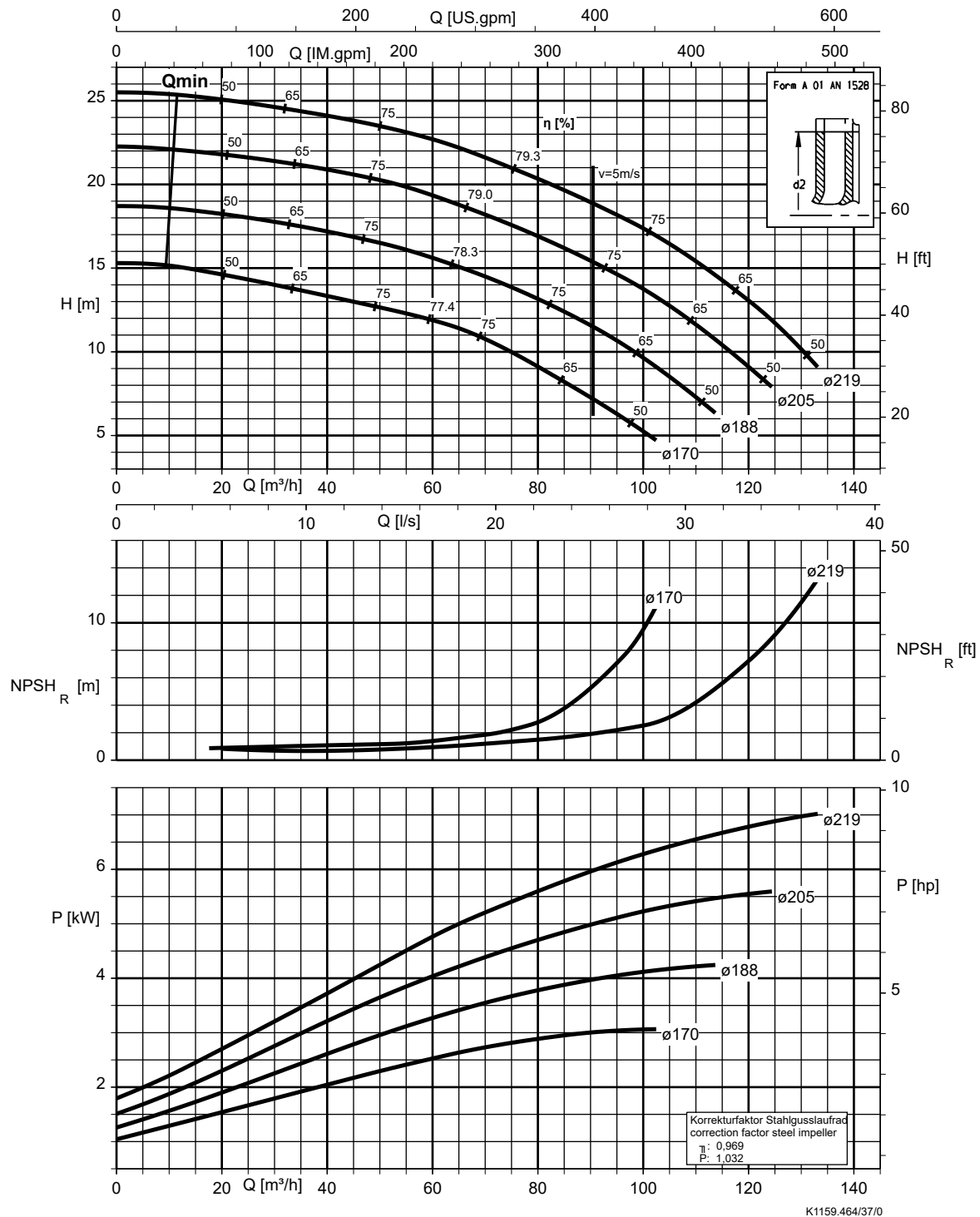
Etaline 065-065-250, n = 1750 rpm



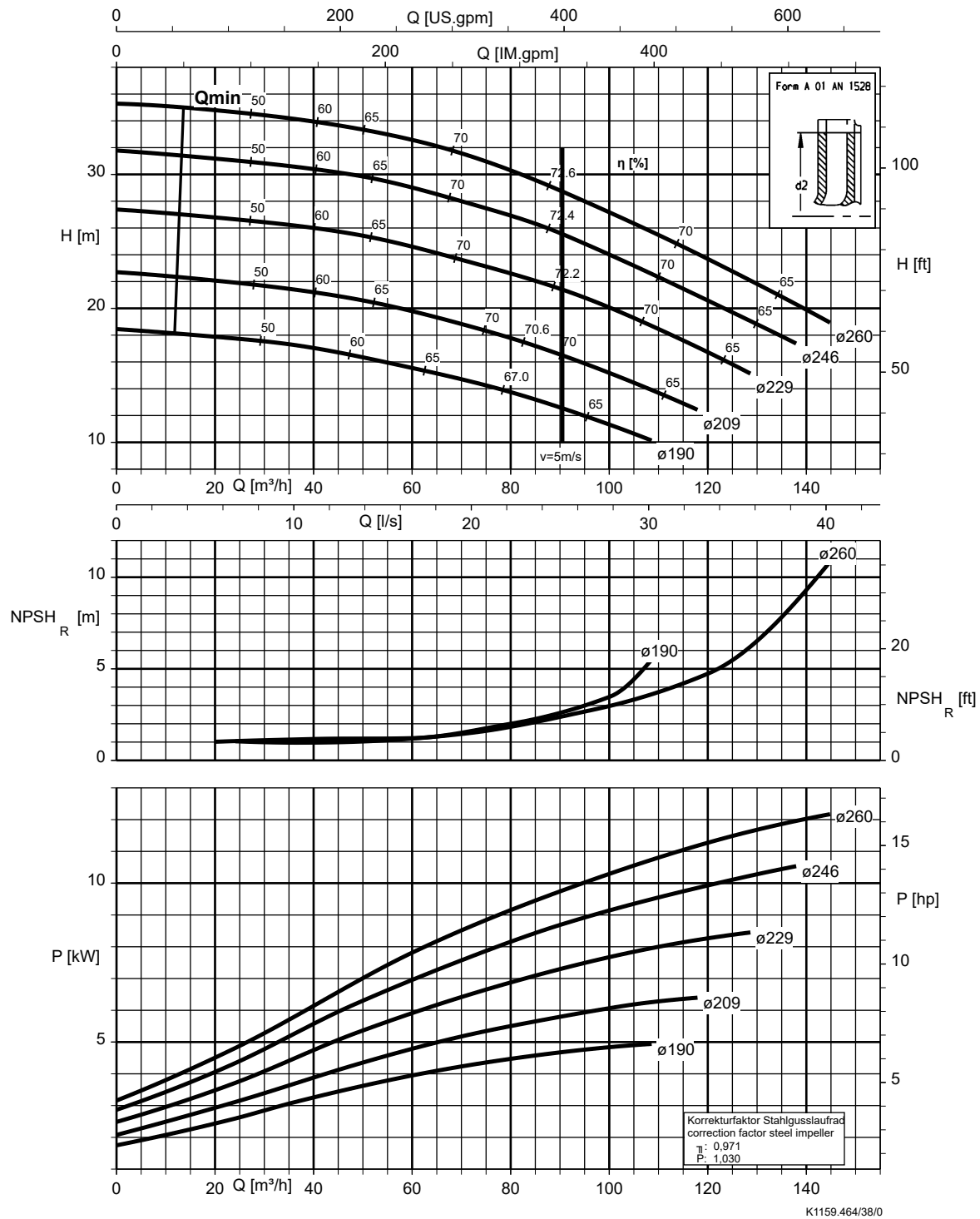
Etaline 080-080-160, n = 1750 rpm



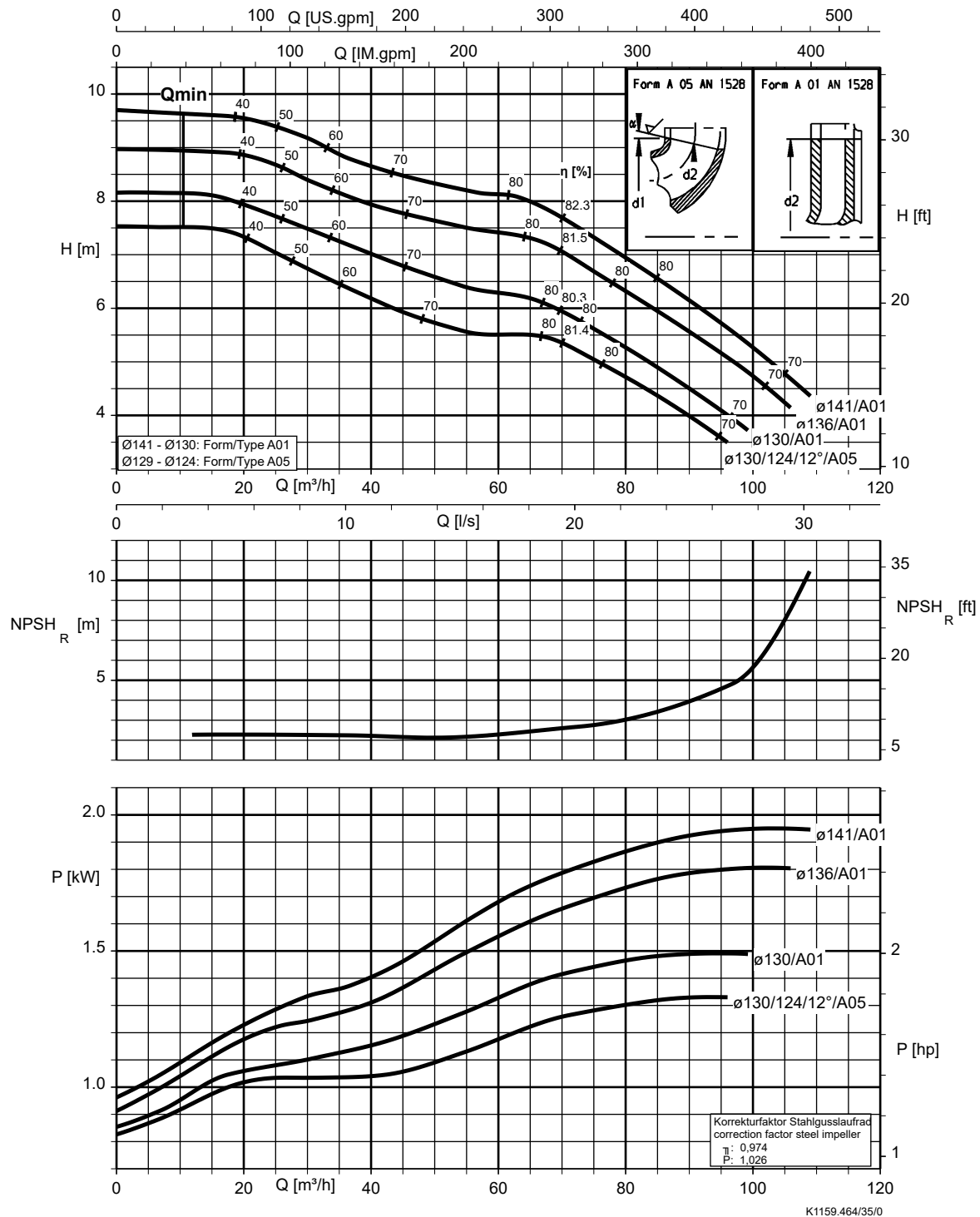
Etaline 080-080-200, n = 1750 rpm



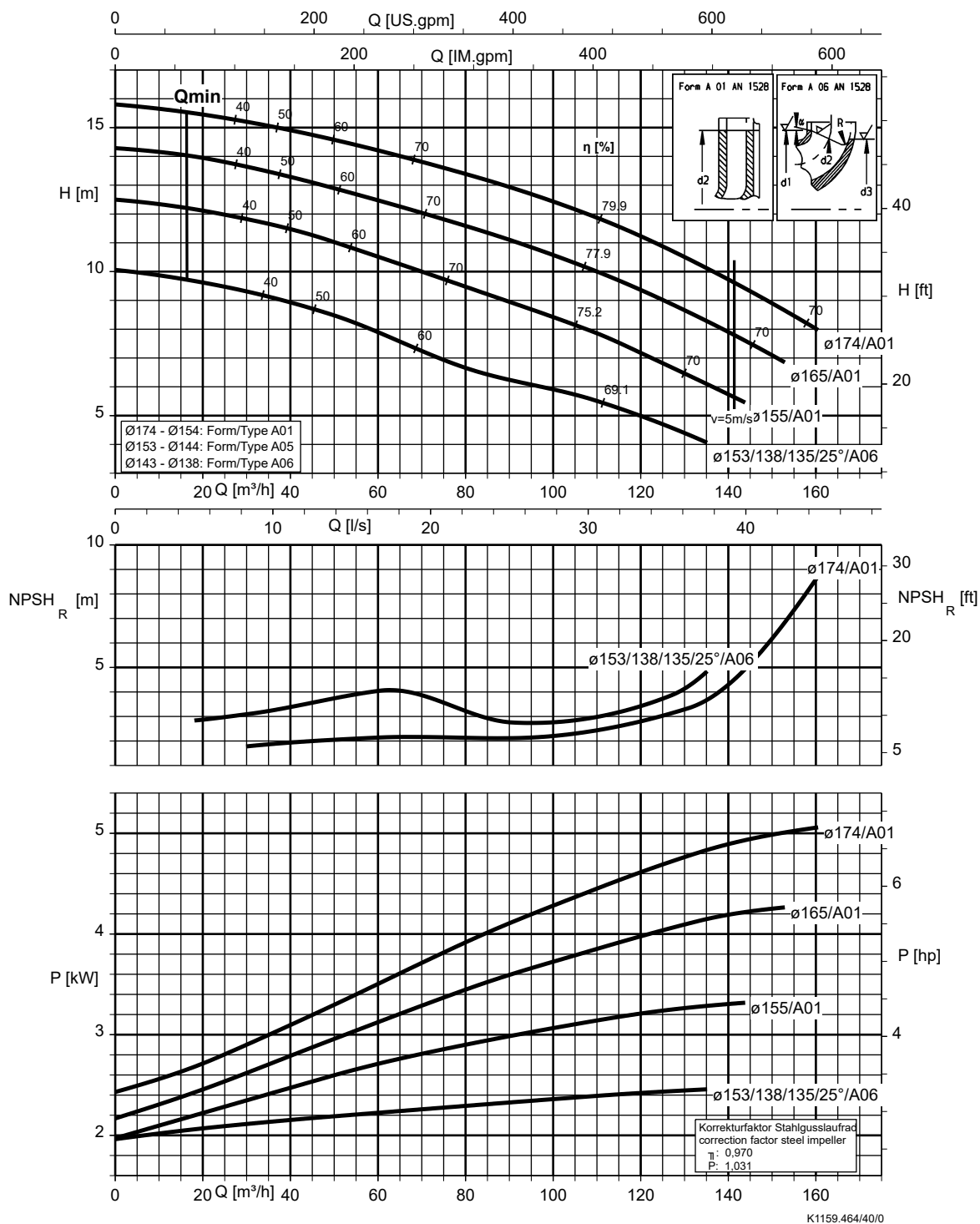
Etaline 080-080-250, n = 1750 rpm



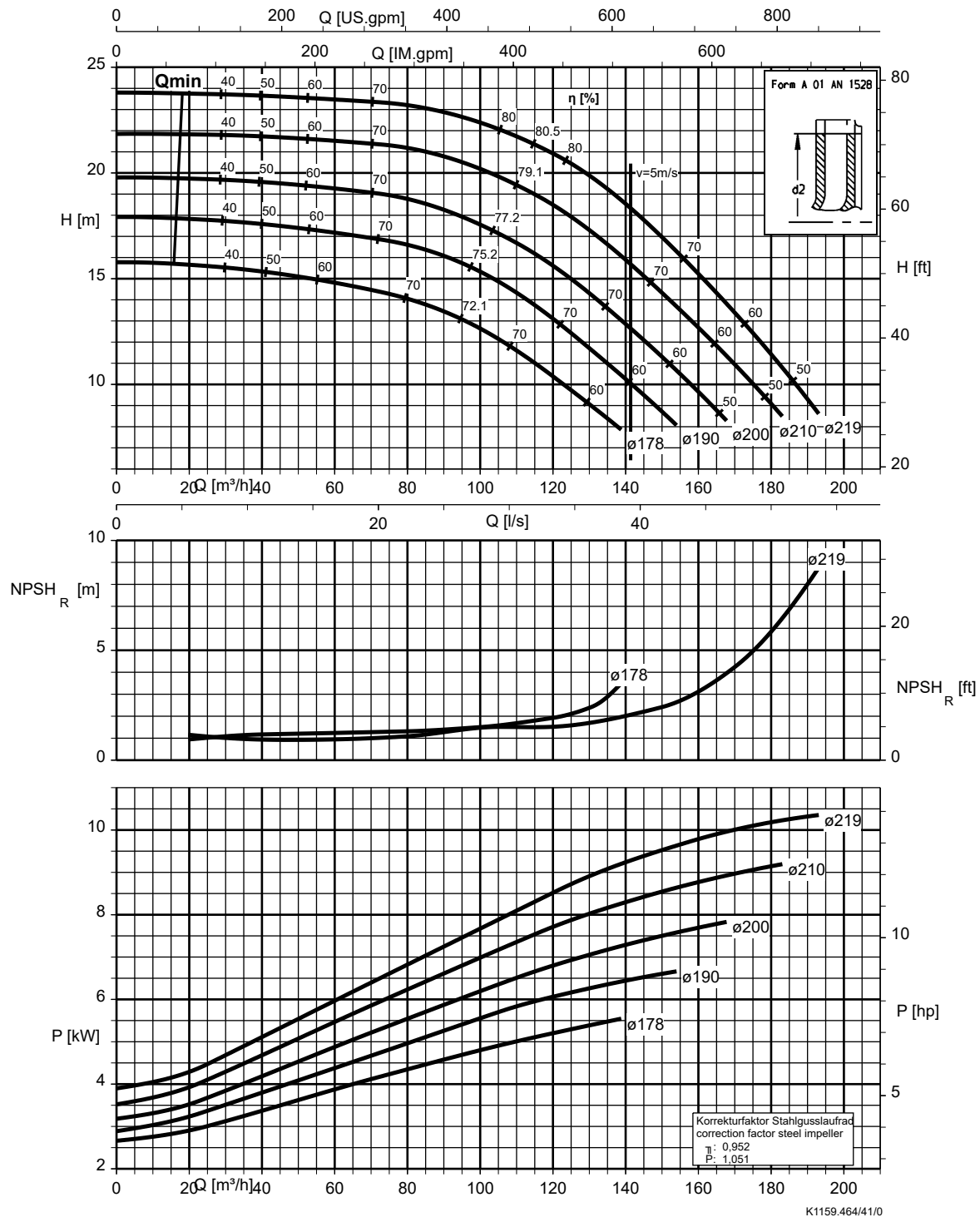
Etaline 100-100-125, n = 1750 rpm



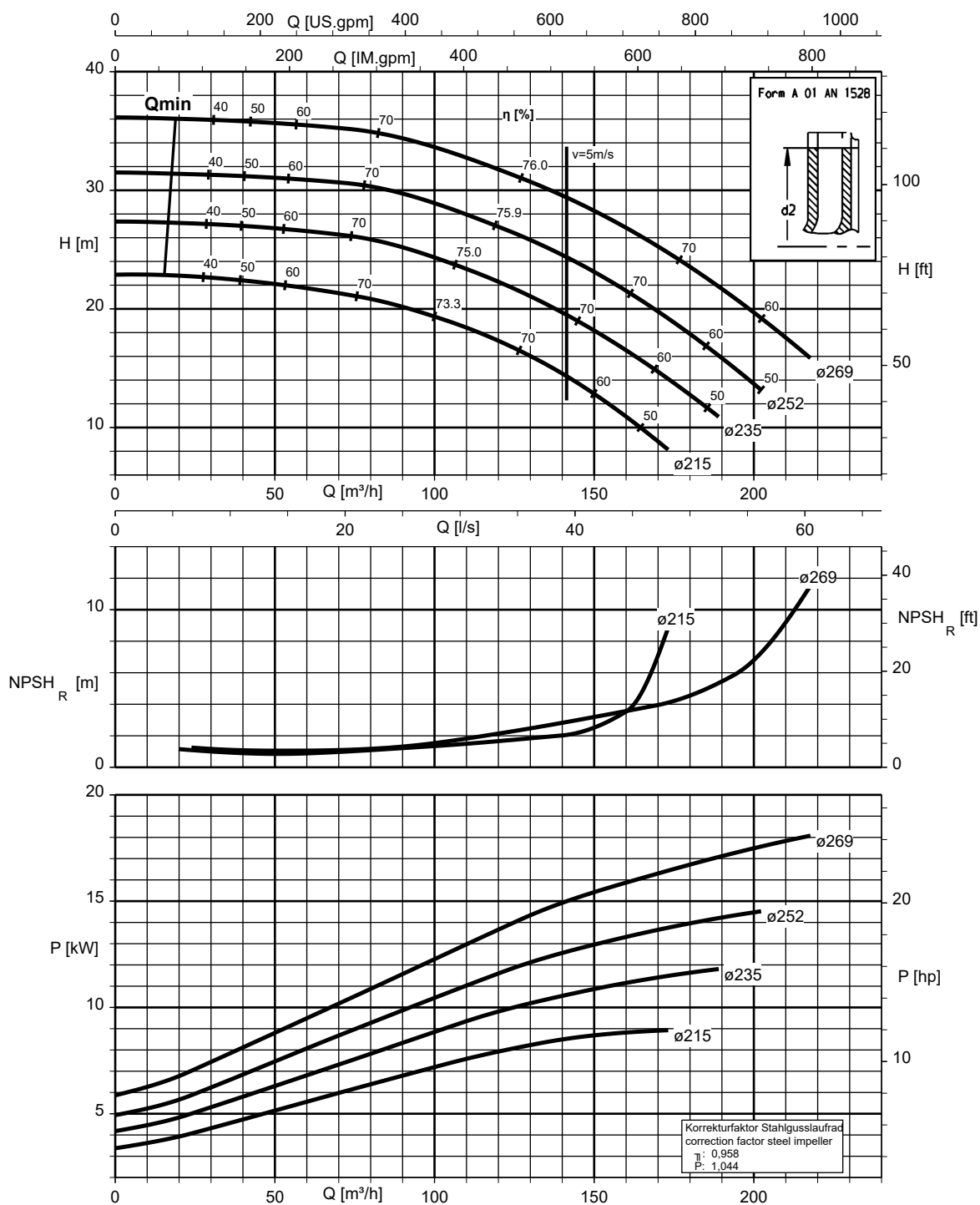
Etaline 100-100-160, n = 1750 rpm



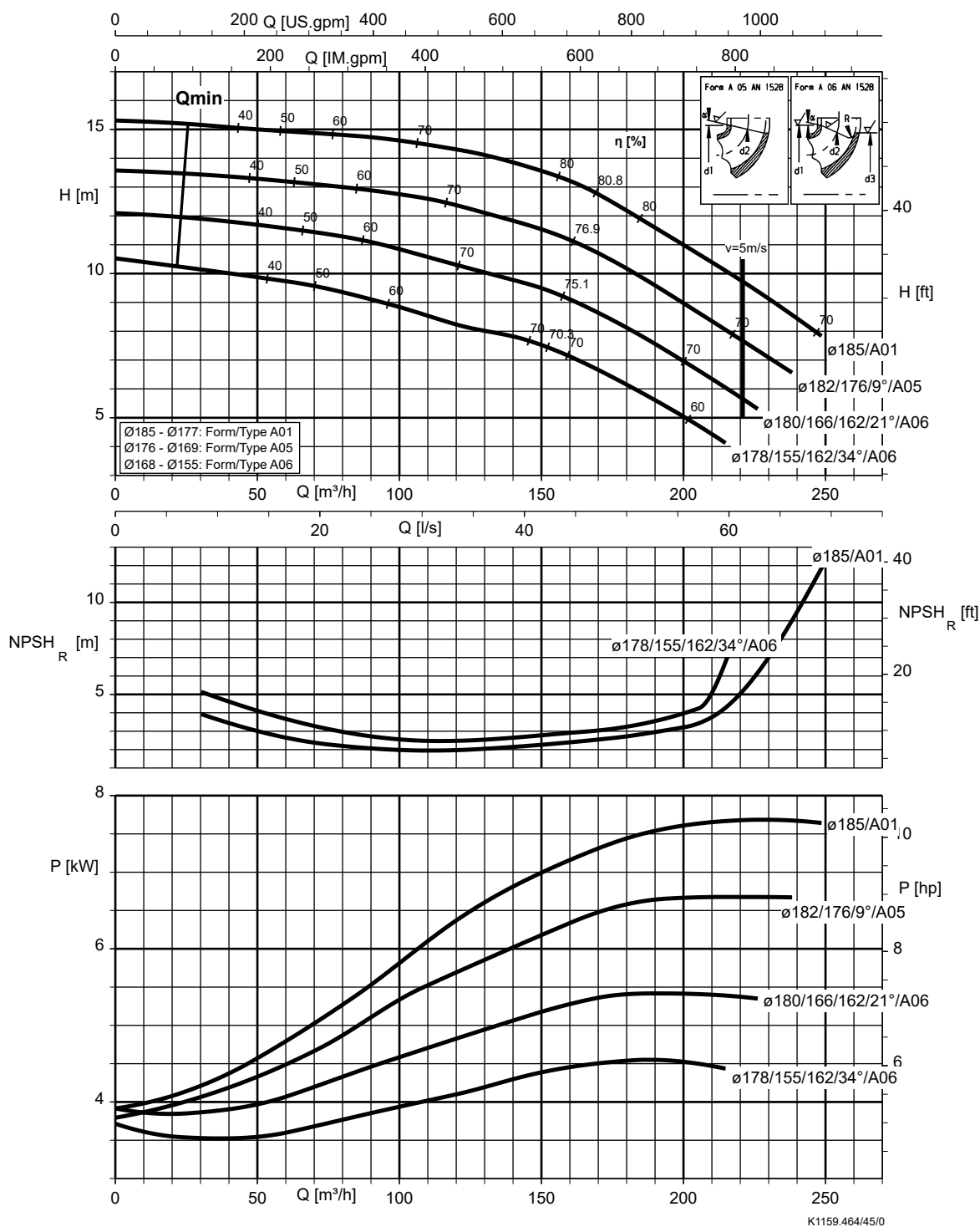
Etaline 100-100-200, n = 1750 rpm



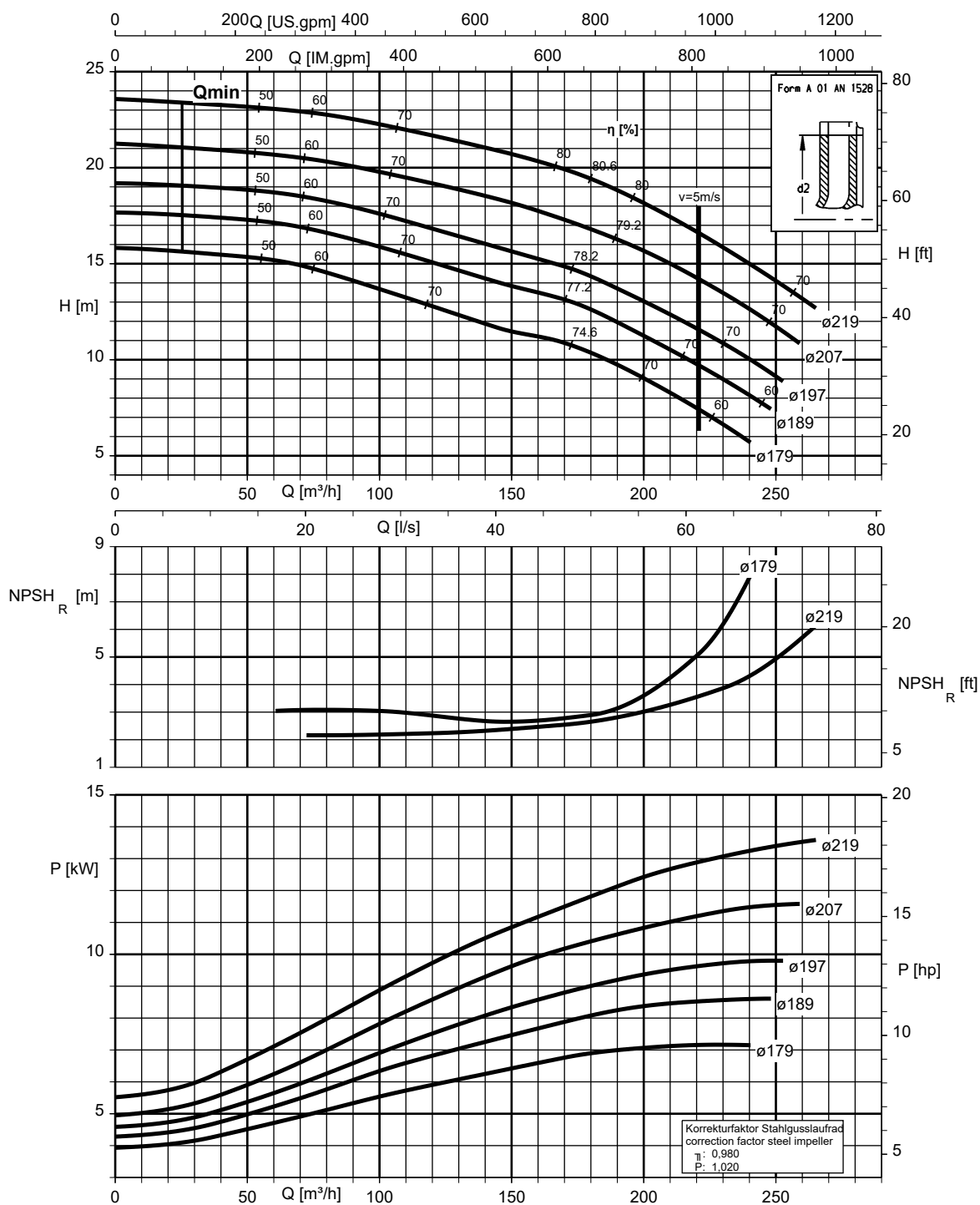
Etaline 100-100-250, n = 1750 rpm



Etaline 125-125-160, n = 1750 rpm

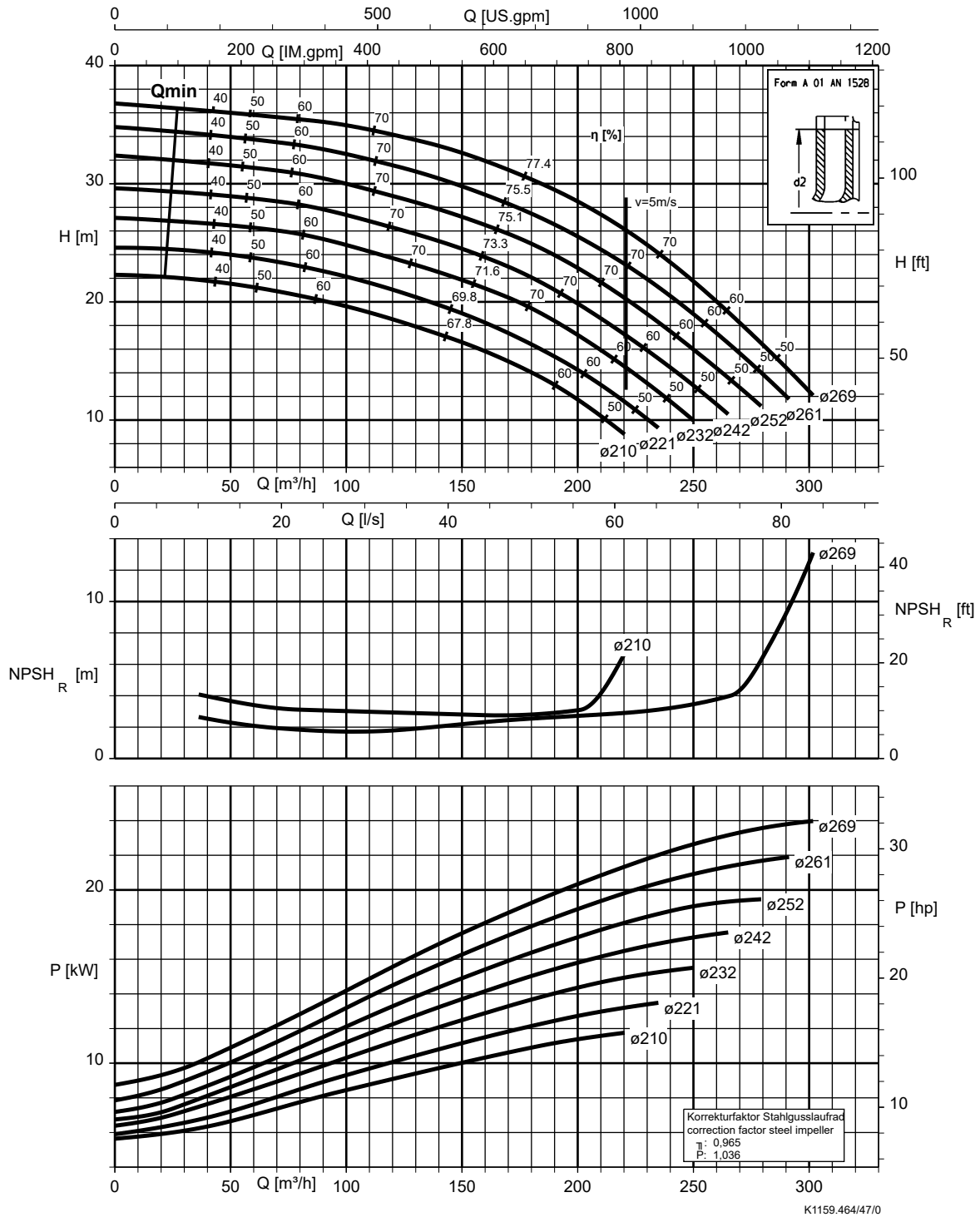


Etaline 125-125-200, n = 1750 rpm



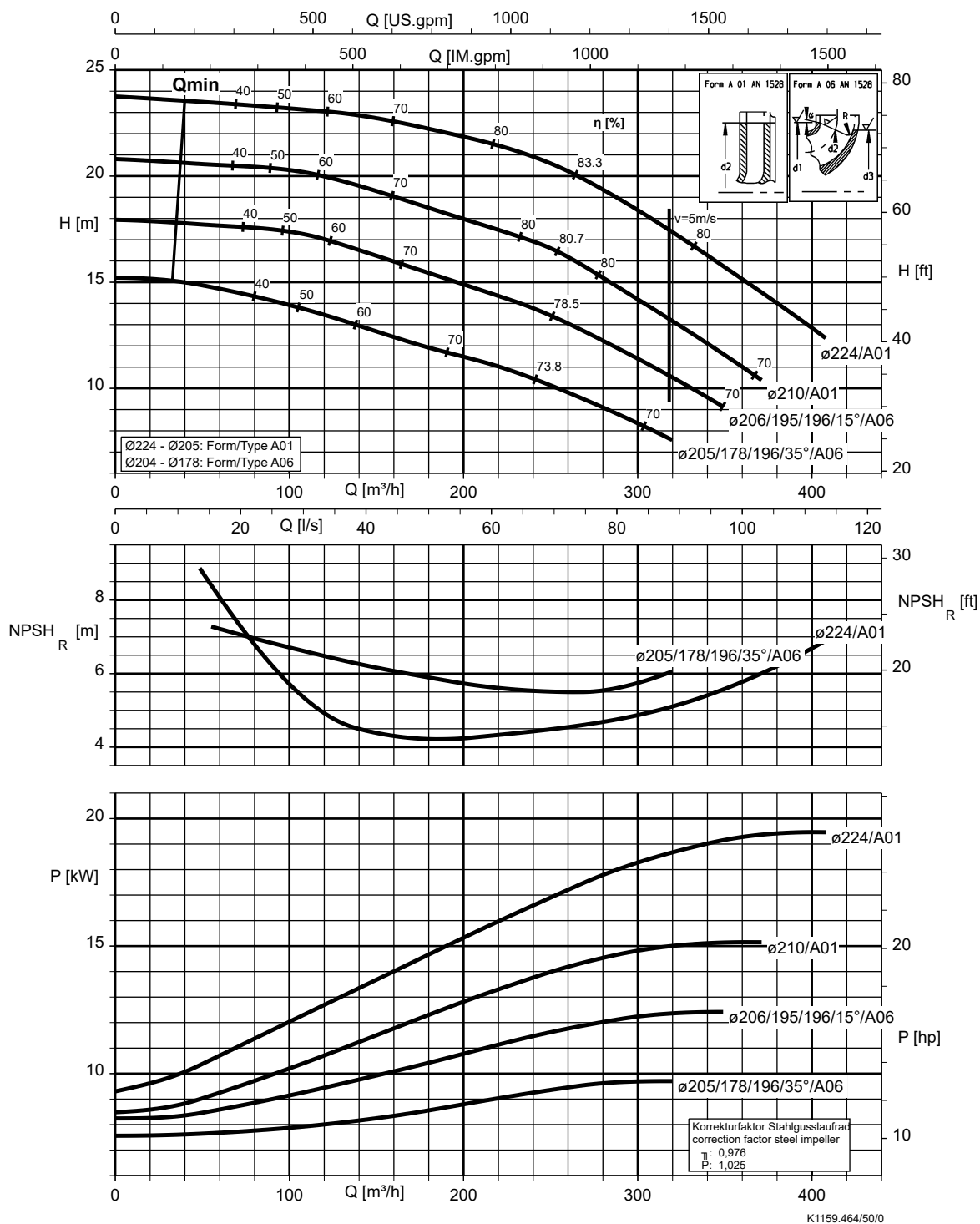
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Etaline 125-125-250, n = 1750 rpm

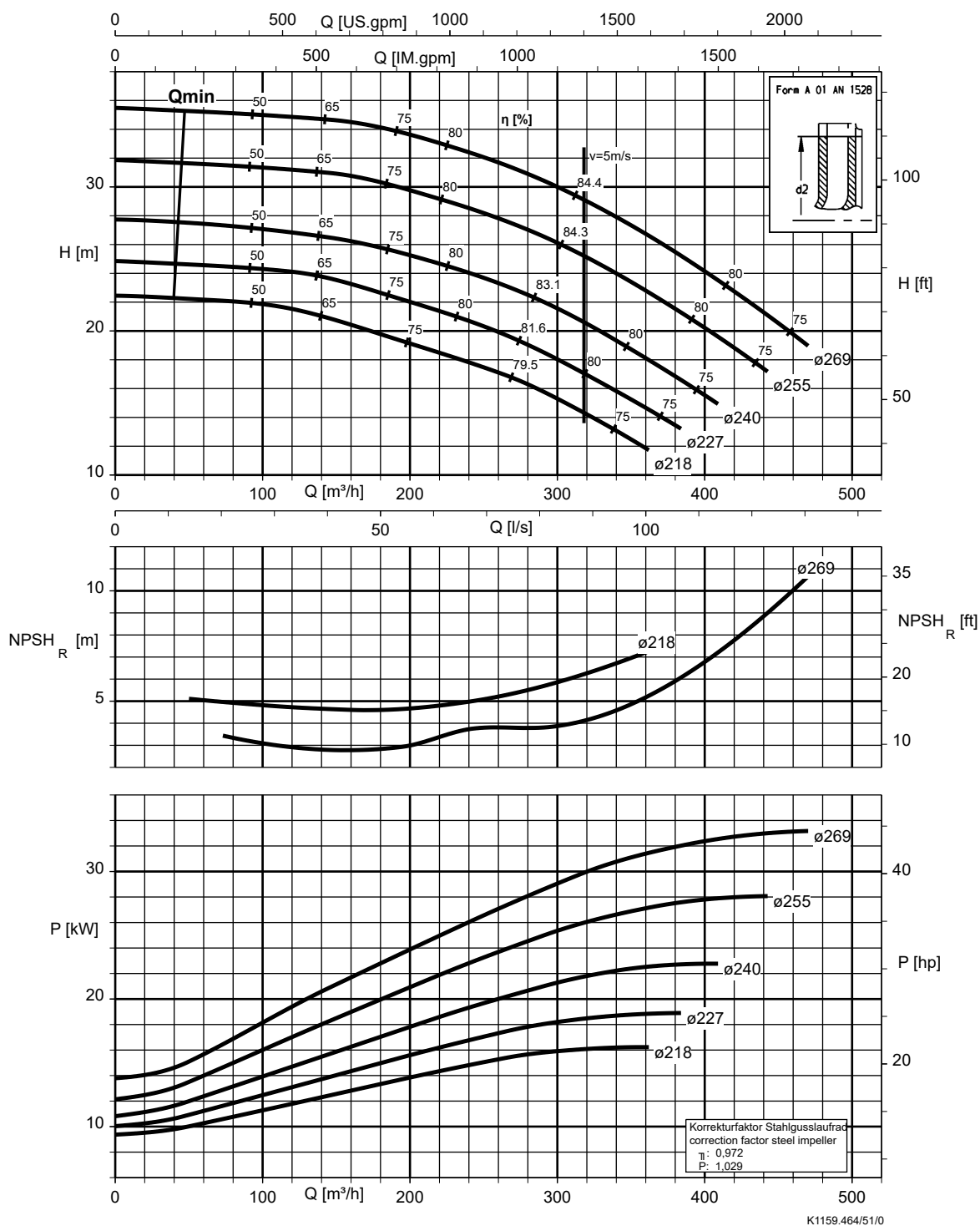


This size is not available for the US market.

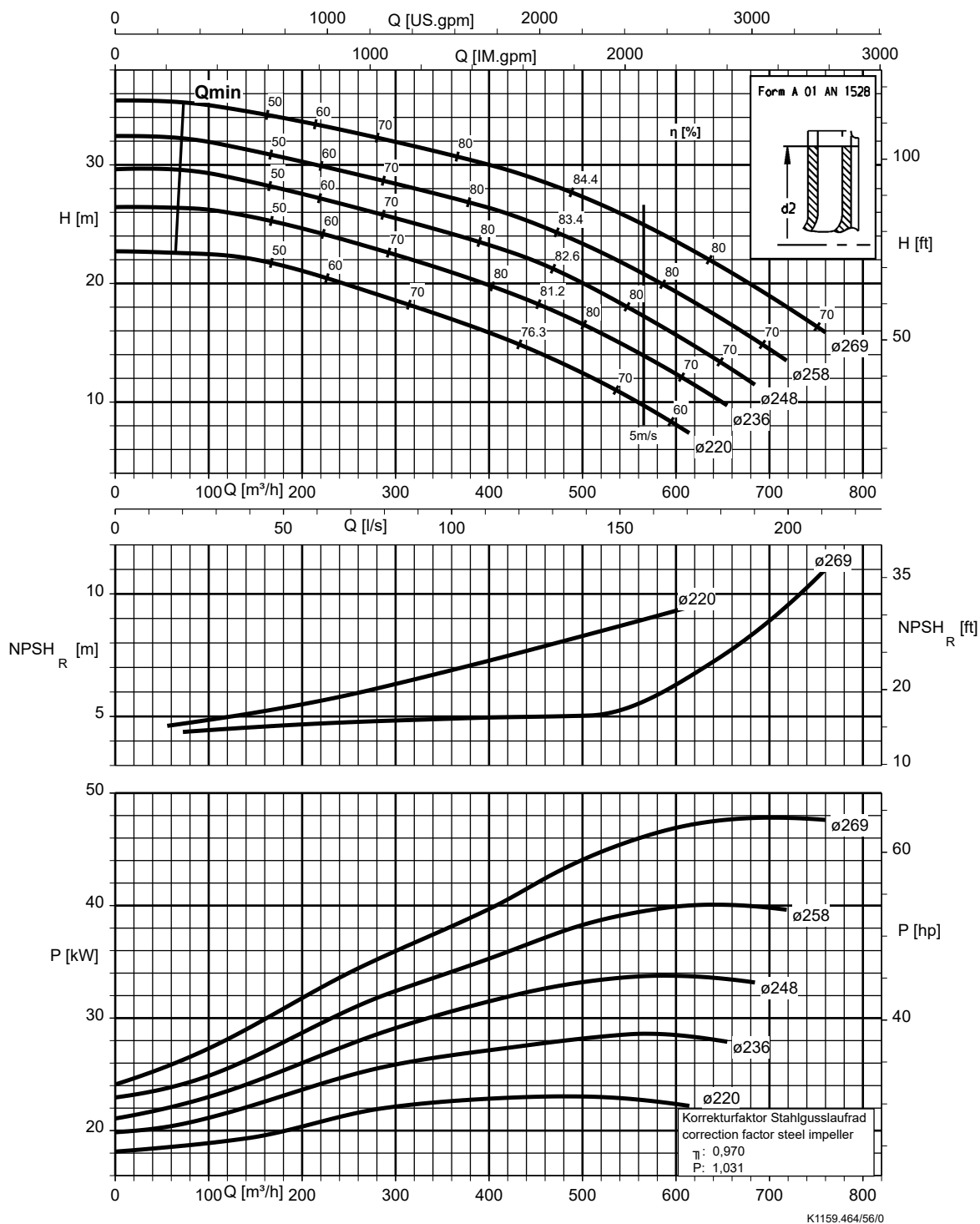
Etaline 150-150-200, n = 1750 rpm



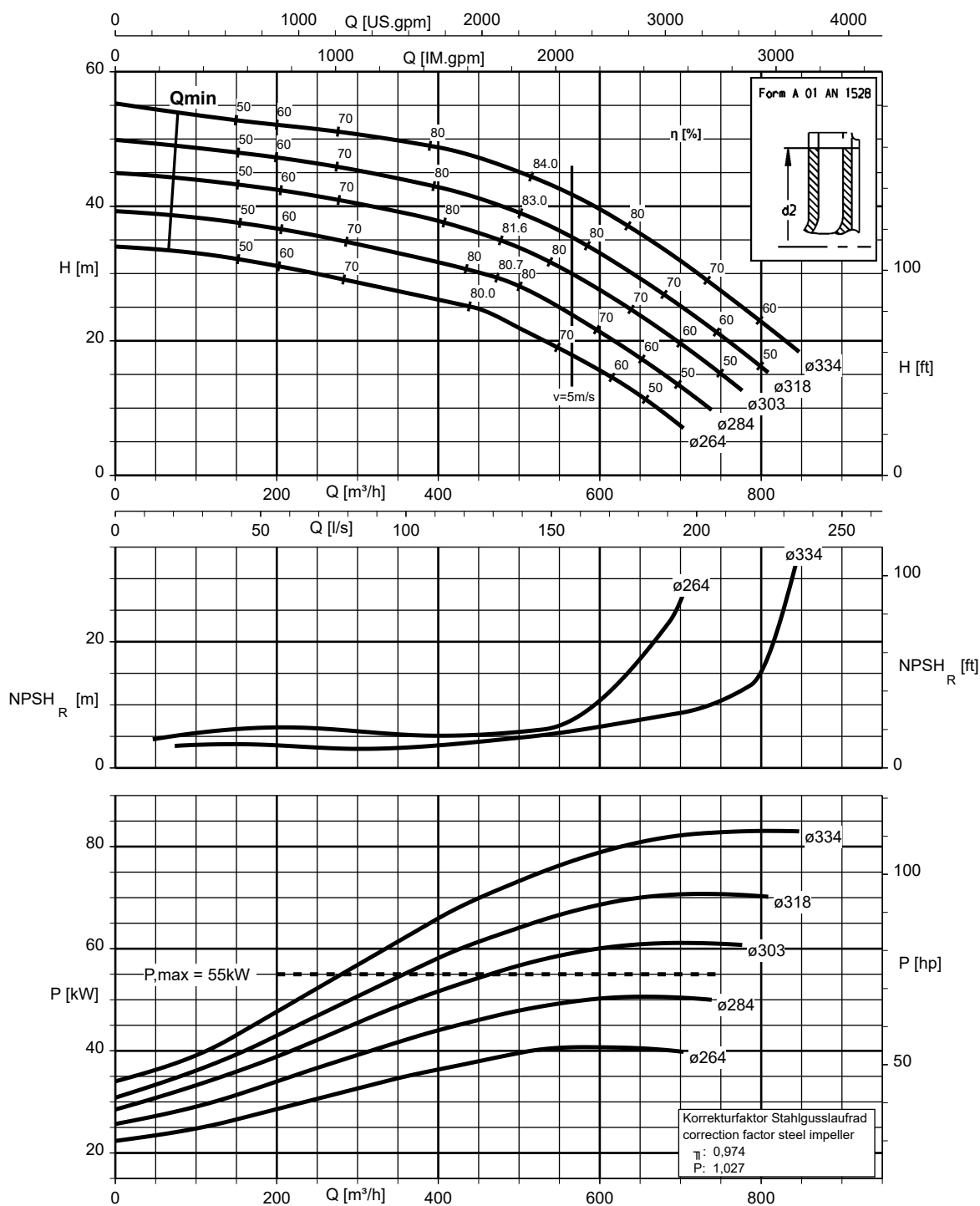
Etaline 150-150-250, n = 1750 rpm



Etaline 200-200-250, n = 1750 rpm



Etaline 200-200-315, n = 1750 rpm



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Dimensions

Pump set (fixed speed version), $n = 2900 \text{ rpm} / n = 3500 \text{ rpm}$

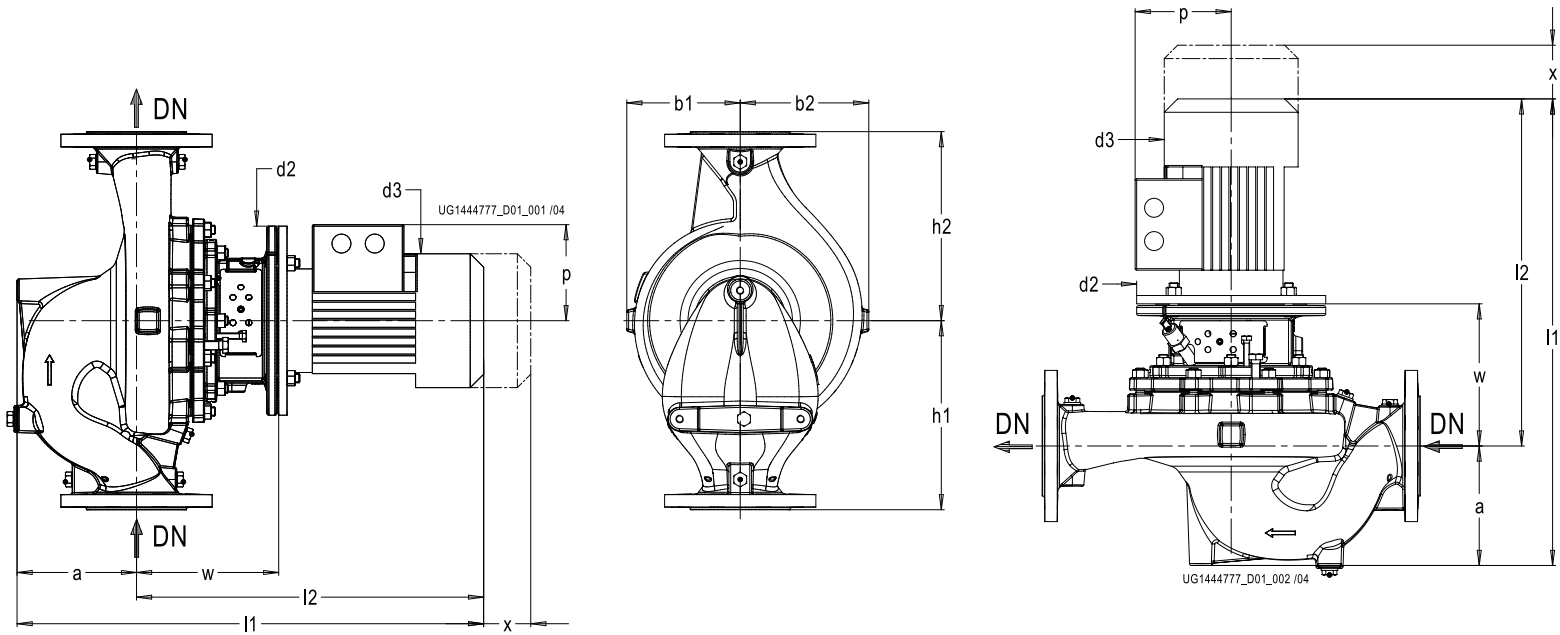


Fig. 2: Dimensions

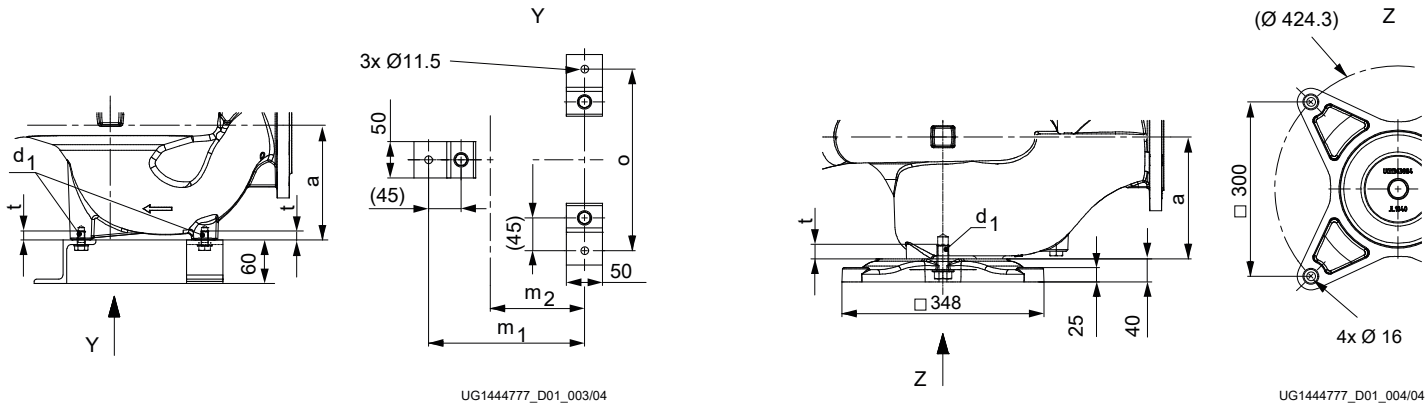


Fig. 3: Foundation fastening dimensions [mm]

Table 23: Pump set dimensions (fixed speed version), n = 2900 rpm / n = 3500 rpm (SI units)

Size	P _N ²⁵⁾	Motor (IEC)	n		DN ²⁶⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ²⁷⁾	p ²⁷⁾	h ₁	h ₂	≈l ₁ ²⁸⁾	≈l ₂ ²⁸⁾	t	≈x ²⁹⁾	w	m ₁	m ₂	o
			2900	3500																		
	[kW]		rpm		[mm]																	
32-32-160	0.75	80M	✗	-	32	87	119	131	M10	200	162	163	180	160	512	425	12.5	100	156	175	100	190
32-32-160	1.1	80M	✗	-	32	87	119	131	M10	200	162	163	180	160	544	457	12.5	100	156	175	100	190
32-32-160	1.5	90S	✗	✗	32	87	119	131	M10	200	190	170	180	160	597	510	12.5	100	156	175	100	190
32-32-160	2.2	90L	✗	✗	32	87	119	131	M10	200	190	170	180	160	597	510	12.5	100	156	175	100	190
32-32-160	3	100L	✗	✗	32	87	119	131	M10	250	213	216	180	160	647	560	12.5	100	170	175	100	190
32-32-160	4	112M	✗	✗	32	87	119	131	M10	250	235	230	180	160	629	542	12.5	100	170	175	100	190
32-32-160	5.5	132S	✗	✗	32	87	119	131	M10	300	274	222	180	160	693	606	12.5	100	193	175	100	190
32-32-160	7.5	132S	-	✗	32	87	119	131	M10	300	274	222	180	160	737	650	12.5	100	193	175	100	190
32-32-160	11	160M	-	-	32	87	119	131	M10	350	325	261	180	160	859	772	12.5	100	226	175	100	190
32-32-160	15	160L	-	-	32	87	119	131	M10	350	325	261	180	160	859	772	12.5	100	226	175	100	190
32-32-200	2.2	90L	-	-	32	100	134	146	M10	200	190	170	250	190	610	510	12.5	100	156	175	100	190
32-32-200	3	100L	✗	-	32	100	134	146	M10	250	213	216	250	190	660	560	12.5	100	170	175	100	190
32-32-200	4	112M	✗	✗	32	100	134	146	M10	250	235	230	250	190	642	542	12.5	100	170	175	100	190
32-32-200	5.5	132S	✗	✗	32	100	134	146	M10	300	274	222	250	190	706	606	12.5	100	193	175	100	190
32-32-200	7.5	132S	✗	✗	32	100	134	146	M10	300	274	222	250	190	750	650	12.5	100	193	175	100	190
32-32-200	11	160M	✗	✗	32	100	134	146	M10	350	325	261	250	190	872	772	12.5	100	226	175	100	190
32-32-200	15	160M	-	✗	32	100	134	146	M10	350	325	261	250	190	872	772	12.5	100	226	175	100	190
40-40-160	1.5	90S	-	-	40	114	118	132	M10	200	190	170	180	160	624	510	12.5	100	156	165	90	190
40-40-160	2.2	90L	✗	-	40	114	118	132	M10	200	190	170	180	160	624	510	12.5	100	156	165	90	190
40-40-160	3	100L	✗	✗	40	114	118	132	M10	250	213	216	180	160	674	560	12.5	100	170	165	90	190
40-40-160	4	112M	✗	✗	40	114	118	132	M10	250	235	230	180	160	656	542	12.5	100	170	165	90	190
40-40-160	5.5	132S	✗	✗	40	114	118	132	M10	300	274	222	180	160	720	606	12.5	100	193	165	90	190
40-40-160	7.5	132S	✗	✗	40	114	118	132	M10	300	274	222	180	160	764	650	12.5	100	193	165	90	190
40-40-160	11	160M	-	✗	40	114	118	132	M10	350	325	261	180	160	886	772	12.5	100	226	165	90	190
40-40-250	5.5	132S	✗	-	40	104	163	173	M10	300	274	222	220	220	714	610	12.5	100	197	175	100	190
40-40-250	7.5	132S	✗	-	40	104	163	173	M10	300	274	222	220	220	758	654	12.5	100	197	175	100	190
40-40-250	11	160M	✗	✗	40	104	163	173	M10	350	325	261	220	220	880	776	12.5	100	230	175	100	190
40-40-250	15	160M	✗	✗	40	104	163	173	M10	350	325	261	220	220	880	776	12.5	100	230	175	100	190
40-40-250	18.5	160L	✗	✗	40	104	163	173	M10	350	325	261	220	220	916	812	12.5	100	230	175	100	190
40-40-250	22	180M	✗	✗	40	104	163	173	M10	350	370	285	220	220	951	847	12.5	100	230	175	100	190
40-40-250	30	200L	✗	✗	40	104	163	173	M10	400	422	326	220	220	1003	899	12.5	100	230	175	100	190
40-40-250	37	200L	-	✗	40	104	163	173	M10	400	422	326	220	220	1003	899	12.5	100	230	175	100	190

25 Motor rating at 50 Hz**26** DN = EN 1092-2, PN 16**27** Standard IEC motor**28** For the exact motor-related dimensions refer to the general arrangement drawing in the pump data sheet.**29** The dimensions of IE3, IE4, and IE5 drives may differ slightly.

Size	P _N ⁽²⁵⁾	Motor (IEC)	n		DN ⁽²⁶⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ⁽²⁷⁾	p ⁽²⁷⁾	h ₁	h ₂	≈l ₁ ⁽²⁸⁾	≈l ₂ ⁽²⁸⁾	t	≈x ⁽²⁹⁾	w	m ₁	m ₂	o
	2900		3500																			
	[kW]		rpm	[mm]																		
50-50-160	2.2	90L	✗	-	50	134	116	135	M10	200	190	170	250	190	644	510	12.5	100	156	175	100	190
50-50-160	3	100L	✗	✗	50	134	116	135	M10	250	213	216	250	190	694	560	12.5	100	170	175	100	190
50-50-160	4	112M	✗	✗	50	134	116	135	M10	250	235	230	250	190	676	542	12.5	100	170	175	100	190
50-50-160	5.5	132S	✗	✗	50	134	116	135	M10	300	274	222	250	190	740	606	12.5	100	193	175	100	190
50-50-160	7.5	132S	✗	✗	50	134	116	135	M10	300	274	222	250	190	784	650	12.5	100	193	175	100	190
50-50-160	11	160M	✗	✗	50	134	116	135	M10	350	325	261	250	190	906	772	12.5	100	226	175	100	190
50-50-160	15	160M	-	✗	50	134	116	135	M10	350	325	261	250	190	906	772	12.5	100	226	175	100	190
50-50-160	18.5	160L	-	-	50	134	116	135	M10	350	325	261	250	190	942	808	12.5	100	226	175	100	190
50-50-160	22	180M	-	-	50	134	116	135	M10	350	370	285	250	190	977	843	12.5	100	226	175	100	190
50-50-160	30	200L	-	-	50	134	116	135	M10	400	422	326	250	190	1029	895	12.5	100	226	175	100	190
50-50-250	7.5	132S	✗	-	50	129	167	182	M10	300	274	222	220	220	789	660	12.5	100	203	175	100	190
50-50-250	11	160M	✗	✗	50	129	167	182	M10	350	325	261	220	220	911	782	12.5	100	236	175	100	190
50-50-250	15	160M	✗	✗	50	129	167	182	M10	350	325	261	220	220	911	782	12.5	100	236	175	100	190
50-50-250	18.5	160L	✗	✗	50	129	167	182	M10	350	325	261	220	220	947	818	12.5	100	236	175	100	190
50-50-250	22	180M	✗	✗	50	129	167	182	M10	350	370	285	220	220	982	853	12.5	100	236	175	100	190
50-50-250	30	200L	✗	✗	50	129	167	182	M10	400	422	326	220	220	1034	905	12.5	100	236	175	100	190
50-50-250	37	200L	✗	✗	50	129	167	182	M10	400	422	326	220	220	1034	905	12.5	100	236	175	100	190
65-65-160	3	100L	✗	-	65	150	114	135	M10	250	213	216	270	170	710	560	12.5	100	170	175	110	210
65-65-160	4	112M	✗	✗	65	150	114	135	M10	250	235	230	270	170	692	542	12.5	100	170	175	110	210
65-65-160	5.5	132S	✗	✗	65	150	114	135	M10	300	274	222	270	170	756	606	12.5	100	193	175	110	210
65-65-160	7.5	132S	✗	✗	65	150	114	135	M10	300	274	222	270	170	800	650	12.5	100	193	175	110	210
65-65-160	11	160M	✗	✗	65	150	114	135	M10	350	325	261	270	170	922	772	12.5	100	226	175	110	210
65-65-160	15	160M	✗	✗	65	150	114	135	M10	350	325	261	270	170	922	772	12.5	100	226	175	110	210
65-65-160	18.5	160L	✗	✗	65	150	114	135	M10	350	325	261	270	170	958	808	12.5	100	226	175	110	210
65-65-160	22	180M	-	✗	65	150	114	135	M10	350	370	285	270	170	993	843	12.5	100	226	175	110	210
65-65-160	30	200L	-	-	65	150	114	135	M10	400	422	326	270	170	1045	895	12.5	100	226	175	110	210
65-65-160	37	200L	-	-	65	150	114	135	M10	400	422	326	270	170	1045	895	12.5	100	226	175	110	210
65-65-250	11	160M	✗	-	65	134	174	196	M10	350	325	261	225	250	936	802	12.5	100	256	175	100	220
65-65-250	15	160M	✗	✗	65	134	174	196	M10	350	325	261	225	250	936	802	12.5	100	256	175	100	220
65-65-250	18.5	160L	✗	✗	65	134	174	196	M10	350	325	261	225	250	972	838	12.5	100	256	175	100	220
65-65-250	22	180M	✗	✗	65	134	174	196	M10	350	370	285	225	250	1007	873	12.5	100	256	175	100	220
65-65-250	30	200L	✗	✗	65	134	174	196	M10	400	422	326	225	250	1059	925	12.5	100	256	175	100	220
65-65-250	37	200L	✗	✗	65	134	174	196	M10	400	422	326	225	250	1059	925	12.5	100	256	175	100	220
80-80-160	4	112M	-	-	80	176	119	147	M10	250	235	230	260	180	718	542	12.5	100	170	175	100	230
80-80-160	5.5	132S	✗	-	80	176	119	147	M10	300	274	222	260	180	782	606	12.5	100	193	175	100	230
80-80-160	7.5	132S	✗	✗	80	176	119	147	M10	300	274	222	260	180	826	650	12.5	100	193	175	100	230
80-80-160	11	160M	✗	✗	80	176	119	147	M10	350	325	261	260	180	948	772	12.5	100	226	175	100	230
80-80-160	15	160M	✗	✗	80	176	119	147	M10	350	325	261	260	180	948	772	12.5	100	226	175	100	230
80-80-160	18.5	160L	✗	✗	80	176	119	147	M10	350	325	261	260	180	984	808	12.5	100	226	175	100	230
80-80-160	22	180M	-	✗	80	176	119	147	M10	350	370	285	260	180	1019	843	12.5	100	226	175	100	230
80-80-160	30	200L	-	✗	80	176	119	147	M10	400	422	326	260	180	1071	895	12.5	100	226	175	100	230

Size	P _N ²⁵⁾	Motor (IEC)	n		DN ²⁶⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ²⁷⁾	p ²⁷⁾	h ₁	h ₂	≈l ₁ ²⁸⁾	≈l ₂ ²⁸⁾	t	≈x ²⁹⁾	w	m ₁	m ₂	o
	2900		3500																			
	[kW]		rpm	[mm]																		
80-80-160	37	200L	-	-	80	176	119	147	M10	400	422	326	260	180	1071	895	12.5	100	226	175	100	230
80-80-200	7.5	132S	-	-	80	158	150	170	M10	300	274	222	250	250	826	668	12.5	140	211	215	130	250
80-80-200	11	160M	✗	-	80	158	150	170	M10	350	325	261	250	250	948	790	12.5	140	244	215	130	250
80-80-200	15	160M	✗	✗	80	158	150	170	M10	350	325	261	250	250	948	790	12.5	140	244	215	130	250
80-80-200	18.5	160L	✗	✗	80	158	150	170	M10	350	325	261	250	250	984	826	12.5	140	244	215	130	250
80-80-200	22	180M	✗	✗	80	158	150	170	M10	350	370	285	250	250	1019	861	12.5	140	244	215	130	250
80-80-200	30	200L	✗	✗	80	158	150	170	M10	400	422	326	250	250	1071	913	12.5	140	244	215	130	250
80-80-200	37	200L	✗	✗	80	158	150	170	M10	400	422	326	250	250	1071	913	12.5	140	244	215	130	250
100-100-125	3	100L	-	-	100	129	112	160	M10	250	213	216	230	220	698	569	12.5	100	179	195	100	230
100-100-125	4	112M	-	-	100	129	112	160	M10	250	235	230	230	220	680	551	12.5	100	179	195	100	230
100-100-125	5.5	132S	✗	-	100	129	112	160	M10	300	274	222	230	220	744	615	12.5	100	202	195	100	230
100-100-125	7.5	132S	✗	-	100	129	112	160	M10	300	274	222	230	220	788	659	12.5	100	202	195	100	230
100-100-125	11	160M	✗	✗	100	129	112	160	M10	350	325	261	230	220	910	781	12.5	100	235	195	100	230
100-100-125	15	160M	-	✗	100	129	112	160	M10	350	325	261	230	220	910	781	12.5	100	235	195	100	230
100-100-125	18.5	160L	-	-	100	129	112	160	M10	350	325	261	230	220	946	817	12.5	100	235	195	100	230
100-100-125	22	180M	-	-	100	129	112	160	M10	350	370	285	230	220	981	852	12.5	100	235	195	100	230
100-100-125	30	200L	-	-	100	129	112	160	M10	400	422	326	230	220	1033	904	12.5	100	235	195	100	230
100-100-160	7.5	132S	-	-	100	156	128	163	M20	300	274	222	245	205	832	676	25	140	219	---	---	---
100-100-160	11	160M	✗	-	100	156	128	163	M20	350	325	261	245	205	954	798	25	140	252	---	---	---
100-100-160	15	160M	✗	✗	100	156	128	163	M20	350	325	261	245	205	954	798	25	140	252	---	---	---
100-100-160	18.5	160L	✗	✗	100	156	128	163	M20	350	325	261	245	205	990	834	25	140	252	---	---	---
100-100-160	22	180M	✗	✗	100	156	128	163	M20	350	370	285	245	205	1025	869	25	140	252	---	---	---
100-100-160	30	200L	✗	✗	100	156	128	163	M20	400	422	326	245	205	1077	921	25	140	252	---	---	---
100-100-160	37	200L	-	✗	100	156	128	163	M20	400	422	326	245	205	1077	921	25	140	252	---	---	---
125-125-160	11	160M	-	-	125	203	182	226	M20	350	325	261	420	280	995	792	25	140	246	---	---	---
125-125-160	15	160M	-	-	125	203	182	226	M20	350	325	261	420	280	995	792	25	140	246	---	---	---
125-125-160	18.5	160L	✗	-	125	203	182	226	M20	350	325	261	420	280	1031	828	25	140	246	---	---	---
125-125-160	22	180M	✗	-	125	203	182	226	M20	350	370	285	420	280	1066	863	25	140	246	---	---	---
125-125-160	30	200L	✗	✗	125	203	182	226	M20	400	422	326	420	280	1118	915	25	140	246	---	---	---
125-125-160	37	200L	✗	✗	125	203	182	226	M20	400	422	326	420	280	1118	915	25	140	246	---	---	---
125-125-160	45	225M	-	✗	125	203	182	226	M20	450	468	372	420	280	1235	1032	25	140	277	---	---	---
125-125-160	55	250M	-	-	125	203	182	226	M20	550	520	451	420	280	1309	1106	25	140	289	---	---	---
125-125-200	22	180M	✗	-	125	205.5	175	214	M20	350	370	285	380	320	1068.5	863	25	140	246	---	---	---
125-125-200	30	200L	✗	-	125	205.5	175	214	M20	400	422	326	380	320	1120.5	915	25	140	246	---	---	---
125-125-200	37	200L	✗	-	125	205.5	175	214	M20	400	422	326	380	320	1120.5	915	25	140	246	---	---	---
125-125-200	45	225M	✗	-	125	205.5	175	214	M20	450	468	372	380	320	1237.5	1032	25	140	277	---	---	---
125-125-200	55	250M	-	-	125	205.5	175	214	M20	550	520	451	380	320	1311.5	1106	25	140	289	---	---	---

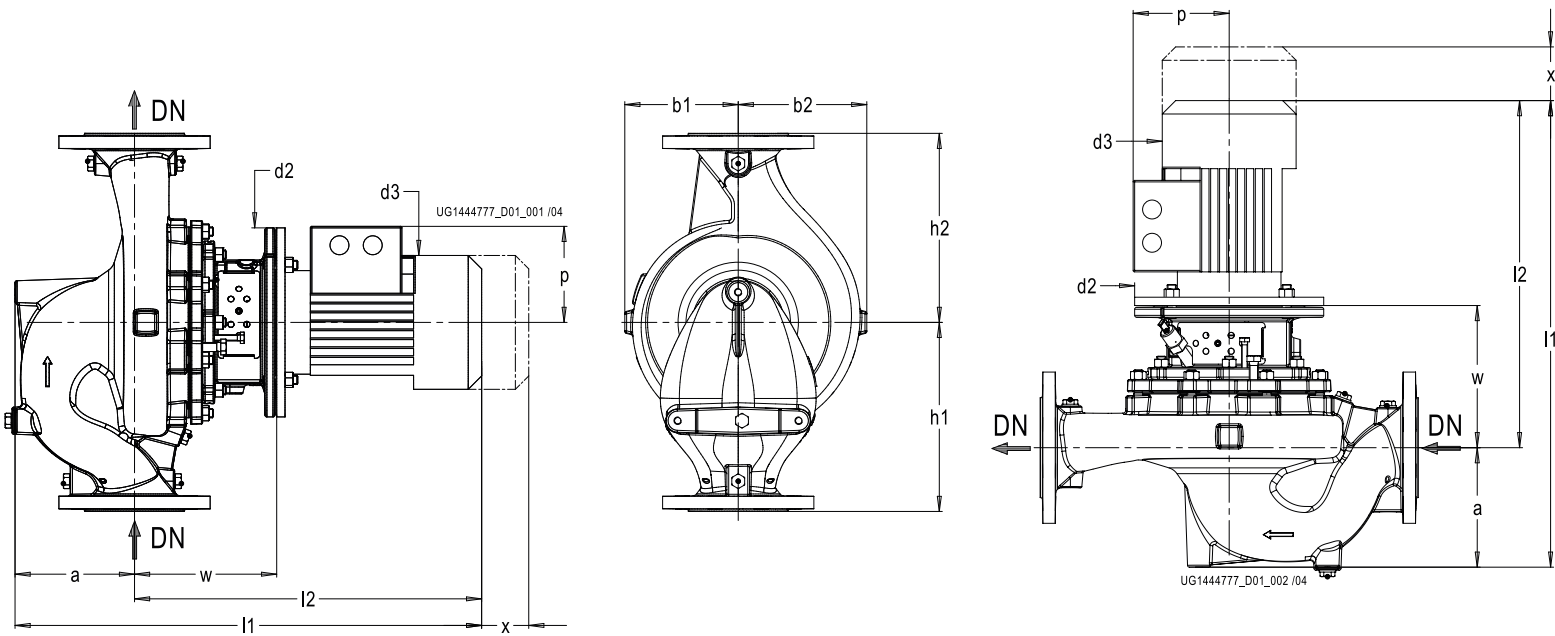


Fig. 4: Dimensions

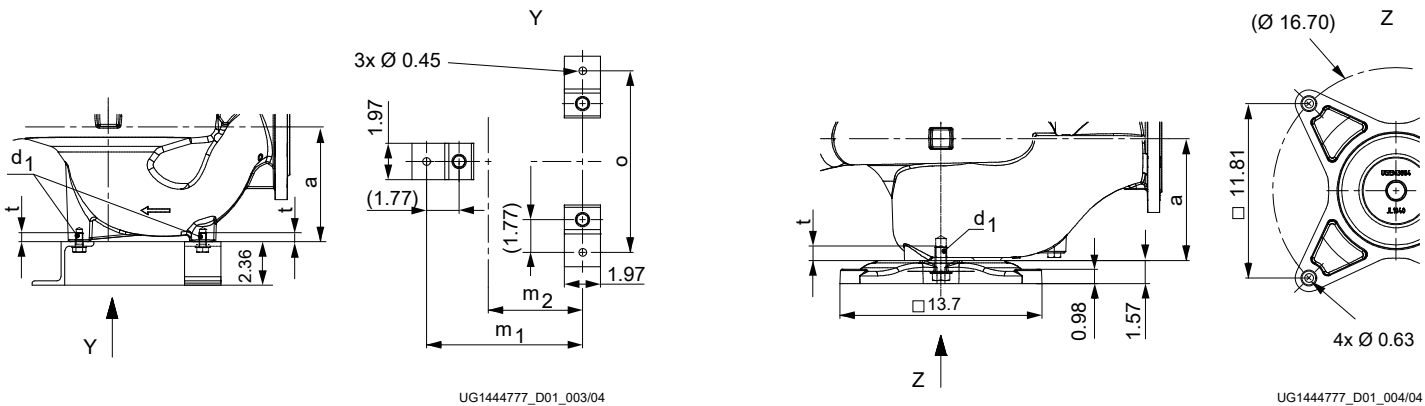


Fig. 5: Foundation fastening [inch]

Table 24: Pump set dimensions (fixed speed version), n = 2900 rpm / n = 3500 rpm (imperial units)

Size	P _N ²⁵⁾	Motor (IEC)	n		DN ²⁶⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ²⁷⁾	p ²⁷⁾	h ₁	h ₂	≈l ₁ ²⁸⁾	≈l ₂ ²⁸⁾	t	≈x ²⁹⁾	w	m ₁	m ₂	o
	2900		3500																			
	[hp]		rpm	[inch]																		
32-32-160	1.01	80M	✕	-	NPS 11/4	3.43	4.69	5.16	M10	7.87	6.38	6.42	7.09	6.30	20.16	16.73	0.49	3.94	6.14	6.89	3.94	7.48
32-32-160	1.48	80M	✕	-	NPS 11/4	3.43	4.69	5.16	M10	7.87	6.38	6.42	7.09	6.30	21.42	17.99	0.49	3.94	6.14	6.89	3.94	7.48
32-32-160	2.01	90S	✕	✕	NPS 11/4	3.43	4.69	5.16	M10	7.87	7.48	6.69	7.09	6.30	23.50	20.08	0.49	3.94	6.14	6.89	3.94	7.48
32-32-160	2.95	90L	✕	✕	NPS 11/4	3.43	4.69	5.16	M10	7.87	7.48	6.69	7.09	6.30	23.50	20.08	0.49	3.94	6.14	6.89	3.94	7.48
32-32-160	4.02	100L	✕	✕	NPS 11/4	3.43	4.69	5.16	M10	9.84	8.39	8.50	7.09	6.30	25.47	22.05	0.49	3.94	6.69	6.89	3.94	7.48
32-32-160	5.36	112M	✕	✕	NPS 11/4	3.43	4.69	5.16	M10	9.84	9.25	9.06	7.09	6.30	24.76	21.34	0.49	3.94	6.69	6.89	3.94	7.48
32-32-160	7.38	132S	✕	✕	NPS 11/4	3.43	4.69	5.16	M10	11.81	10.79	8.74	7.09	6.30	27.28	23.86	0.49	3.94	7.60	6.89	3.94	7.48
32-32-160	10.06	132S	-	✕	NPS 11/4	3.43	4.69	5.16	M10	11.81	10.79	8.74	7.09	6.30	29.02	25.59	0.49	3.94	7.60	6.89	3.94	7.48
32-32-160	14.75	160M	-	-	NPS 11/4	3.43	4.69	5.16	M10	13.78	12.80	10.28	7.09	6.30	33.82	30.39	0.49	3.94	8.90	6.89	3.94	7.48
32-32-160	20.12	160L	-	-	NPS 11/4	3.43	4.69	5.16	M10	13.78	12.80	10.28	7.09	6.30	33.82	30.39	0.49	3.94	8.90	6.89	3.94	7.48
32-32-200	2.95	90L	-	-	NPS 11/4	3.94	5.28	5.75	M10	7.87	7.48	6.69	9.84	7.48	24.02	20.08	0.49	3.94	6.14	6.89	3.94	7.48
32-32-200	4.02	100L	✕	-	NPS 11/4	3.94	5.28	5.75	M10	9.84	8.39	8.50	9.84	7.48	25.98	22.05	0.49	3.94	6.69	6.89	3.94	7.48
32-32-200	5.36	112M	✕	✕	NPS 11/4	3.94	5.28	5.75	M10	9.84	9.25	9.06	9.84	7.48	25.28	21.34	0.49	3.94	6.69	6.89	3.94	7.48
32-32-200	7.38	132S	✕	✕	NPS 11/4	3.94	5.28	5.75	M10	11.81	10.79	8.74	9.84	7.48	27.80	23.86	0.49	3.94	7.60	6.89	3.94	7.48
32-32-200	10.06	132S	✕	✕	NPS 11/4	3.94	5.28	5.75	M10	11.81	10.79	8.74	9.84	7.48	29.53	25.59	0.49	3.94	7.60	6.89	3.94	7.48
32-32-200	14.75	160M	✕	✕	NPS 11/4	3.94	5.28	5.75	M10	13.78	12.80	10.28	9.84	7.48	34.33	30.39	0.49	3.94	8.90	6.89	3.94	7.48
32-32-200	20.12	160M	-	✕	NPS 11/4	3.94	5.28	5.75	M10	13.78	12.80	10.28	9.84	7.48	34.33	30.39	0.49	3.94	8.90	6.89	3.94	7.48
40-40-160	2.01	90S	-	-	NPS 11/2	4.49	4.65	5.20	M10	7.87	7.48	6.69	7.09	6.30	24.57	20.08	0.49	3.94	6.14	6.50	3.54	7.48
40-40-160	2.95	90L	✕	-	NPS 11/2	4.49	4.65	5.20	M10	7.87	7.48	6.69	7.09	6.30	24.57	20.08	0.49	3.94	6.14	6.50	3.54	7.48
40-40-160	4.02	100L	✕	✕	NPS 11/2	4.49	4.65	5.20	M10	9.84	8.39	8.50	7.09	6.30	26.54	22.05	0.49	3.94	6.69	6.50	3.54	7.48
40-40-160	5.36	112M	✕	✕	NPS 11/2	4.49	4.65	5.20	M10	9.84	9.25	9.06	7.09	6.30	25.83	21.34	0.49	3.94	6.69	6.50	3.54	7.48
40-40-160	7.38	132S	✕	✕	NPS 11/2	4.49	4.65	5.20	M10	11.81	10.79	8.74	7.09	6.30	28.35	23.86	0.49	3.94	7.60	6.50	3.54	7.48
40-40-160	10.06	132S	✕	✕	NPS 11/2	4.49	4.65	5.20	M10	11.81	10.79	8.74	7.09	6.30	30.08	25.59	0.49	3.94	7.60	6.50	3.54	7.48
40-40-160	14.75	160M	-	✕	NPS 11/2	4.49	4.65	5.20	M10	13.78	12.80	10.28	7.09	6.30	34.88	30.39	0.49	3.94	8.90	6.50	3.54	7.48
40-40-250	7.38	132S	✕	-	NPS 11/2	4.09	6.42	6.81	M10	11.81	10.79	8.74	8.66	8.66	28.11	24.02	0.49	3.94	7.76	6.89	3.94	7.48
40-40-250	10.06	132S	✕	-	NPS 11/2	4.09	6.42	6.81	M10	11.81	10.79	8.74	8.66	8.66	29.84	25.75	0.49	3.94	7.76	6.89	3.94	7.48
40-40-250	14.75	160M	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	13.78	12.80	10.28	8.66	8.66	34.65	30.55	0.49	3.94	9.06	6.89	3.94	7.48
40-40-250	20.12	160M	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	13.78	12.80	10.28	8.66	8.66	34.65	30.55	0.49	3.94	9.06	6.89	3.94	7.48
40-40-250	24.81	160L	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	13.78	12.80	10.28	8.66	8.66	36.06	31.97	0.49	3.94	9.06	6.89	3.94	7.48
40-40-250	29.50	180M	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	13.78	14.57	11.22	8.66	8.66	37.44	33.35	0.49	3.94	9.06	6.89	3.94	7.48
40-40-250	40.23	200L	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	15.75	16.61	12.83	8.66	8.66	39.49	35.39	0.49	3.94	9.06	6.89	3.94	7.48
40-40-250	49.62	200L	-	✕	NPS 11/2	4.09	6.42	6.81	M10	15.75	16.61	12.83	8.66	8.66	39.49	35.39	0.49	3.94	9.06	6.89	3.94	7.48
50-50-160	2.95	90L	✕	-	NPS 2	5.28	4.57	5.31	M10	7.87	7.48	6.69	9.84	7.48	25.35	20.08	0.49	3.94	6.14	6.89	3.94	7.48
50-50-160	4.02	100L	✕	✕	NPS 2	5.28	4.57	5.31	M10	9.84	8.39	8.50	9.84	7.48	27.32	22.05	0.49	3.94	6.69	6.89	3.94	7.48
50-50-160	5.36	112M	✕	✕	NPS 2	5.28	4.57	5.31	M10	9.84	9.25	9.06	9.84	7.48	26.61	21.34	0.49	3.94	6.69	6.89	3.94	7.48
50-50-160	7.38	132S	✕	✕	NPS 2	5.28	4.57	5.31	M10	11.81	10.79	8.74	9.84	7.48	29.13	23.86	0.49	3.94	7.60	6.89	3.94	7.48
50-50-160	10.06	132S	✕	✕	NPS 2	5.28	4.57	5.31	M10	11.81	10.79	8.74	9.84	7.48	30.87	25.59	0.49	3.94	7.60	6.89	3.94	7.48
50-50-160	14.75	160M	✕	✕	NPS 2	5.28	4.57	5.31	M10	13.78	12.80	10.28	9.84	7.48	35.67	30.39	0.49	3.94	8.90	6.89	3.94	7.48
50-50-160	20.12	160M	-	✕	NPS 2	5.28	4.57	5.31	M10	13.78	12.80	10.28	9.84	7.48	35.67	30.39	0.49	3.94	8.90	6.89	3.94	7.48

Size	P _N ⁽²⁵⁾	Motor (IEC)	n		DN ⁽²⁶⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ⁽²⁷⁾	p ⁽²⁷⁾	h ₁	h ₂	≈l ₁ ⁽²⁸⁾	≈l ₂ ⁽²⁸⁾	t	≈x ⁽²⁹⁾	w	m ₁	m ₂	o
	2900		3500																			
			[hp]		rpm		[inch]															
50-50-160	24.81	160L	-	-	NPS 2	5.28	4.57	5.31	M10	13.78	12.80	10.28	9.84	7.48	37.09	31.81	0.49	3.94	8.90	6.89	3.94	7.48
50-50-160	29.50	180M	-	-	NPS 2	5.28	4.57	5.31	M10	13.78	14.57	11.22	9.84	7.48	38.46	33.19	0.49	3.94	8.90	6.89	3.94	7.48
50-50-160	40.23	200L	-	-	NPS 2	5.28	4.57	5.31	M10	15.75	16.61	12.83	9.84	7.48	40.51	35.24	0.49	3.94	8.90	6.89	3.94	7.48
50-50-250	10.06	132S	✗	-	NPS 2	5.08	6.57	7.17	M10	11.81	10.79	8.74	8.66	8.66	31.06	25.98	0.49	3.94	7.99	6.89	3.94	7.48
50-50-250	14.75	160M	✗	✗	NPS 2	5.08	6.57	7.17	M10	13.78	12.80	10.28	8.66	8.66	35.87	30.79	0.49	3.94	9.29	6.89	3.94	7.48
50-50-250	20.12	160M	✗	✗	NPS 2	5.08	6.57	7.17	M10	13.78	12.80	10.28	8.66	8.66	35.87	30.79	0.49	3.94	9.29	6.89	3.94	7.48
50-50-250	24.81	160L	✗	✗	NPS 2	5.08	6.57	7.17	M10	13.78	12.80	10.28	8.66	8.66	37.28	32.20	0.49	3.94	9.29	6.89	3.94	7.48
50-50-250	29.50	180M	✗	✗	NPS 2	5.08	6.57	7.17	M10	13.78	14.57	11.22	8.66	8.66	38.66	33.58	0.49	3.94	9.29	6.89	3.94	7.48
50-50-250	40.23	200L	✗	✗	NPS 2	5.08	6.57	7.17	M10	15.75	16.61	12.83	8.66	8.66	40.71	35.63	0.49	3.94	9.29	6.89	3.94	7.48
50-50-250	49.62	200L	✗	✗	NPS 2	5.08	6.57	7.17	M10	15.75	16.61	12.83	8.66	8.66	40.71	35.63	0.49	3.94	9.29	6.89	3.94	7.48
65-65-160	4.02	100L	✗	-	NPS 2 1/2	5.91	4.49	5.31	M10	9.84	8.39	8.50	10.63	6.69	27.95	22.05	0.49	3.94	6.69	6.89	4.33	8.27
65-65-160	5.36	112M	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	9.84	9.25	9.06	10.63	6.69	27.24	21.34	0.49	3.94	6.69	6.89	4.33	8.27
65-65-160	7.38	132S	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	11.81	10.79	8.74	10.63	6.69	29.76	23.86	0.49	3.94	7.60	6.89	4.33	8.27
65-65-160	10.06	132S	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	11.81	10.79	8.74	10.63	6.69	31.50	25.59	0.49	3.94	7.60	6.89	4.33	8.27
65-65-160	14.75	160M	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	13.78	12.80	10.28	10.63	6.69	36.30	30.39	0.49	3.94	8.90	6.89	4.33	8.27
65-65-160	20.12	160M	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	13.78	12.80	10.28	10.63	6.69	36.30	30.39	0.49	3.94	8.90	6.89	4.33	8.27
65-65-160	24.81	160L	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	13.78	12.80	10.28	10.63	6.69	37.72	31.81	0.49	3.94	8.90	6.89	4.33	8.27
65-65-160	29.50	180M	-	✗	NPS 2 1/2	5.91	4.49	5.31	M10	13.78	14.57	11.22	10.63	6.69	39.09	33.19	0.49	3.94	8.90	6.89	4.33	8.27
65-65-160	40.23	200L	-	-	NPS 2 1/2	5.91	4.49	5.31	M10	15.75	16.61	12.83	10.63	6.69	41.14	35.24	0.49	3.94	8.90	6.89	4.33	8.27
65-65-160	49.62	200L	-	-	NPS 2 1/2	5.91	4.49	5.31	M10	15.75	16.61	12.83	10.63	6.69	41.14	35.24	0.49	3.94	8.90	6.89	4.33	8.27
65-65-250	14.75	160M	✗	-	NPS 2 1/2	5.28	6.85	7.72	M10	13.78	12.80	10.28	8.86	9.84	36.85	31.57	0.49	3.94	10.08	6.89	3.94	8.66
65-65-250	20.12	160M	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	13.78	12.80	10.28	8.86	9.84	36.85	31.57	0.49	3.94	10.08	6.89	3.94	8.66
65-65-250	24.81	160L	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	13.78	12.80	10.28	8.86	9.84	38.27	32.99	0.49	3.94	10.08	6.89	3.94	8.66
65-65-250	29.50	180M	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	13.78	14.57	11.22	8.86	9.84	39.65	34.37	0.49	3.94	10.08	6.89	3.94	8.66
65-65-250	40.23	200L	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	15.75	16.61	12.83	8.86	9.84	41.69	36.42	0.49	3.94	10.08	6.89	3.94	8.66
65-65-250	49.62	200L	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	15.75	16.61	12.83	8.86	9.84	41.69	36.42	0.49	3.94	10.08	6.89	3.94	8.66
80-80-160	5.36	112M	-	-	NPS 3	6.93	4.69	5.79	M10	9.84	9.25	9.06	10.24	7.09	28.27	21.34	0.49	3.94	6.69	6.89	3.94	9.06
80-80-160	7.38	132S	✗	-	NPS 3	6.93	4.69	5.79	M10	11.81	10.79	8.74	10.24	7.09	30.79	23.86	0.49	3.94	7.60	6.89	3.94	9.06
80-80-160	10.06	132S	✗	✗	NPS 3	6.93	4.69	5.79	M10	11.81	10.79	8.74	10.24	7.09	32.52	25.59	0.49	3.94	7.60	6.89	3.94	9.06
80-80-160	14.75	160M	✗	✗	NPS 3	6.93	4.69	5.79	M10	13.78	12.80	10.28	10.24	7.09	37.32	30.39	0.49	3.94	8.90	6.89	3.94	9.06
80-80-160	20.12	160M	✗	✗	NPS 3	6.93	4.69	5.79	M10	13.78	12.80	10.28	10.24	7.09	37.32	30.39	0.49	3.94	8.90	6.89	3.94	9.06
80-80-160	24.81	160L	✗	✗	NPS 3	6.93	4.69	5.79	M10	13.78	12.80	10.28	10.24	7.09	38.74	31.81	0.49	3.94	8.90	6.89	3.94	9.06
80-80-160	29.50	180M	-	✗	NPS 3	6.93	4.69	5.79	M10	13.78	14.57	11.22	10.24	7.09	40.12	33.19	0.49	3.94	8.90	6.89	3.94	9.06
80-80-160	40.23	200L	-	✗	NPS 3	6.93	4.69	5.79	M10	15.75	16.61	12.83	10.24	7.09	42.17	35.24	0.49	3.94	8.90	6.89	3.94	9.06
80-80-160	49.62	200L	-	-	NPS 3	6.93	4.69	5.79	M10	15.75	16.61	12.83	10.24	7.09	42.17	35.24	0.49	3.94	8.90	6.89	3.94	9.06
80-80-200	10.06	132S	-	-	NPS 3	6.22	5.91	6.69	M10	11.81	10.79	8.74	9.84	9.84	32.52	26.30	0.49	5.51	8.31	8.46	5.12	9.84
80-80-200	14.75	160M	✗	-	NPS 3	6.22	5.91	6.69	M10	13.78	12.80	10.28	9.84	9.84	37.32	31.10	0.49	5.51	9.61	8.46	5.12	9.84
80-80-200	20.12	160M	✗	✗	NPS 3	6.22	5.91	6.69	M10	13.78	12.80	10.28	9.84	9.84	37.32	31.10	0.49	5.51	9.61	8.46	5.12	9.84
80-80-200	24.81	160L	✗	✗	NPS 3	6.22	5.91	6.69	M10	13.78	12.80	10.28	9.84	9.84	38.74	32.52	0.49	5.51	9.61	8.46	5.12	9.84
80-80-200	29.50	180M	✗	✗	NPS 3	6.22	5.91	6.69	M10	13.78	14.57	11.22	9.84	9.84	40.12	33.90	0.49	5.51	9.61	8.46	5.12	9.84
80-80-200	40.23	200L	✗	✗	NPS 3	6.22	5.91	6.69	M10	15.75	16.61	12.83	9.84	9.84	42.17	35.94	0.49	5.51	9.61	8.46	5.12	9.84

Size	P _N ⁽²⁵⁾	Motor (IEC)	n		DN ⁽²⁶⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ⁽²⁷⁾	p ⁽²⁷⁾	h ₁	h ₂	≈l ₁ ⁽²⁸⁾	≈l ₂ ⁽²⁸⁾	t	≈x ⁽²⁹⁾	w	m ₁	m ₂	o
	2900		3500																			
	[hp]		rpm	[inch]																		
80-80-200	49.62	200L	✗	✗	NPS 3	6.22	5.91	6.69	M10	15.75	16.61	12.83	9.84	9.84	42.17	35.94	0.49	5.51	9.61	8.46	5.12	9.84
100-100-125	4.02	100L	-	-	NPS 4	5.08	4.41	6.30	M10	9.84	8.39	8.50	9.06	8.66	27.48	22.40	0.49	3.94	7.05	7.68	3.94	9.06
100-100-125	5.36	112M	-	-	NPS 4	5.08	4.41	6.30	M10	9.84	9.25	9.06	9.06	8.66	26.77	21.69	0.49	3.94	7.05	7.68	3.94	9.06
100-100-125	7.38	132S	✗	-	NPS 4	5.08	4.41	6.30	M10	11.81	10.79	8.74	9.06	8.66	29.29	24.21	0.49	3.94	7.95	7.68	3.94	9.06
100-100-125	10.06	132S	✗	-	NPS 4	5.08	4.41	6.30	M10	11.81	10.79	8.74	9.06	8.66	31.02	25.94	0.49	3.94	7.95	7.68	3.94	9.06
100-100-125	14.75	160M	✗	✗	NPS 4	5.08	4.41	6.30	M10	13.78	12.80	10.28	9.06	8.66	35.83	30.75	0.49	3.94	9.25	7.68	3.94	9.06
100-100-125	20.12	160M	-	✗	NPS 4	5.08	4.41	6.30	M10	13.78	12.80	10.28	9.06	8.66	35.83	30.75	0.49	3.94	9.25	7.68	3.94	9.06
100-100-125	24.81	160L	-	-	NPS 4	5.08	4.41	6.30	M10	13.78	12.80	10.28	9.06	8.66	37.24	32.17	0.49	3.94	9.25	7.68	3.94	9.06
100-100-125	29.50	180M	-	-	NPS 4	5.08	4.41	6.30	M10	13.78	14.57	11.22	9.06	8.66	38.62	33.54	0.49	3.94	9.25	7.68	3.94	9.06
100-100-125	40.23	200L	-	-	NPS 4	5.08	4.41	6.30	M10	15.75	16.61	12.83	9.06	8.66	40.67	35.59	0.49	3.94	9.25	7.68	3.94	9.06
100-100-160	10.06	132S	-	-	NPS 4	6.14	5.04	6.42	M20	11.81	10.79	8.74	9.65	8.07	32.76	26.61	0.98	5.51	8.62	---	---	---
100-100-160	14.75	160M	✗	-	NPS 4	6.14	5.04	6.42	M20	13.78	12.80	10.28	9.65	8.07	37.56	31.42	0.98	5.51	9.92	---	---	---
100-100-160	20.12	160M	✗	✗	NPS 4	6.14	5.04	6.42	M20	13.78	12.80	10.28	9.65	8.07	37.56	31.42	0.98	5.51	9.92	---	---	---
100-100-160	24.81	160L	✗	✗	NPS 4	6.14	5.04	6.42	M20	13.78	12.80	10.28	9.65	8.07	38.98	32.83	0.98	5.51	9.92	---	---	---
100-100-160	29.50	180M	✗	✗	NPS 4	6.14	5.04	6.42	M20	13.78	14.57	11.22	9.65	8.07	40.35	34.21	0.98	5.51	9.92	---	---	---
100-100-160	40.23	200L	✗	✗	NPS 4	6.14	5.04	6.42	M20	15.75	16.61	12.83	9.65	8.07	42.40	36.26	0.98	5.51	9.92	---	---	---
100-100-160	49.62	200L	-	✗	NPS 4	6.14	5.04	6.42	M20	15.75	16.61	12.83	9.65	8.07	42.40	36.26	0.98	5.51	9.92	---	---	---
125-125-160	14.75	160M	-	-	NPS 5	7.99	7.17	8.90	M20	13.78	12.80	10.28	16.54	11.02	39.17	31.18	0.98	5.51	9.69	---	---	---
125-125-160	20.12	160M	-	-	NPS 5	7.99	7.17	8.90	M20	13.78	12.80	10.28	16.54	11.02	39.17	31.18	0.98	5.51	9.69	---	---	---
125-125-160	24.81	160L	✗	-	NPS 5	7.99	7.17	8.90	M20	13.78	12.80	10.28	16.54	11.02	40.59	32.60	0.98	5.51	9.69	---	---	---
125-125-160	29.50	180M	✗	-	NPS 5	7.99	7.17	8.90	M20	13.78	14.57	11.22	16.54	11.02	41.97	33.98	0.98	5.51	9.69	---	---	---
125-125-160	40.23	200L	✗	✗	NPS 5	7.99	7.17	8.90	M20	15.75	16.61	12.83	16.54	11.02	44.02	36.02	0.98	5.51	9.69	---	---	---
125-125-160	49.62	200L	✗	✗	NPS 5	7.99	7.17	8.90	M20	15.75	16.61	12.83	16.54	11.02	44.02	36.02	0.98	5.51	9.69	---	---	---
125-125-160	60.35	225M	-	✗	NPS 5	7.99	7.17	8.90	M20	17.72	18.43	14.65	16.54	11.02	48.62	40.63	0.98	5.51	10.91	---	---	---
125-125-160	73.76	250M	-	-	NPS 5	7.99	7.17	8.90	M20	21.65	20.47	17.76	16.54	11.02	51.54	43.54	0.98	5.51	11.38	---	---	---
125-125-200	29.50	180M	✗	-	NPS 5	8.09	6.89	8.43	M20	13.78	14.57	11.22	14.96	12.60	42.07	33.98	0.98	5.51	9.69	---	---	---
125-125-200	40.23	200L	✗	-	NPS 5	8.09	6.89	8.43	M20	15.75	16.61	12.83	14.96	12.60	44.11	36.02	0.98	5.51	9.69	---	---	---
125-125-200	49.62	200L	✗	-	NPS 5	8.09	6.89	8.43	M20	15.75	16.61	12.83	14.96	12.60	44.11	36.02	0.98	5.51	9.69	---	---	---
125-125-200	60.35	225M	✗	-	NPS 5	8.09	6.89	8.43	M20	17.72	18.43	14.65	14.96	12.60	48.72	40.63	0.98	5.51	10.91	---	---	---
125-125-200	73.76	250M	-	-	NPS 5	8.09	6.89	8.43	M20	21.65	20.47	17.76	14.96	12.60	51.63	43.54	0.98	5.51	11.38	---	---	---

Pump set (fixed speed version), $n = 1450 \text{ rpm} / n = 1750 \text{ rpm}$

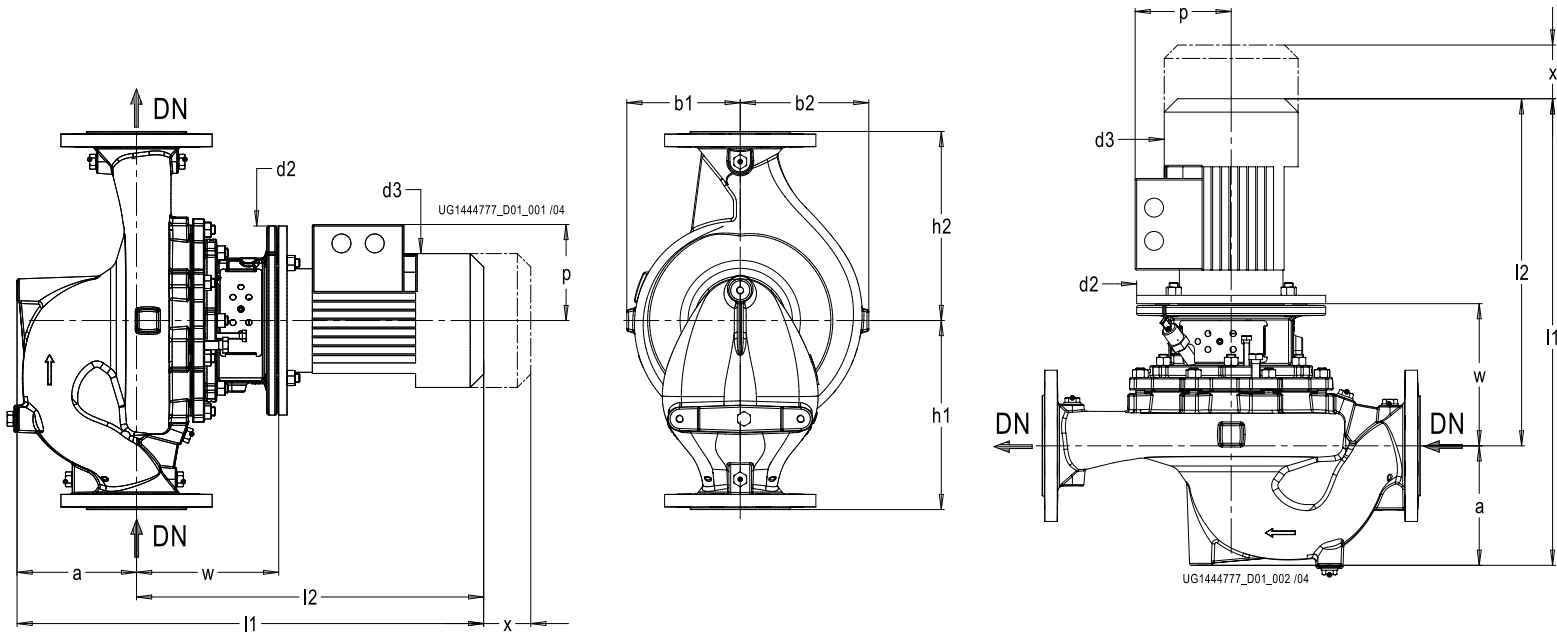


Fig. 6: Dimensions

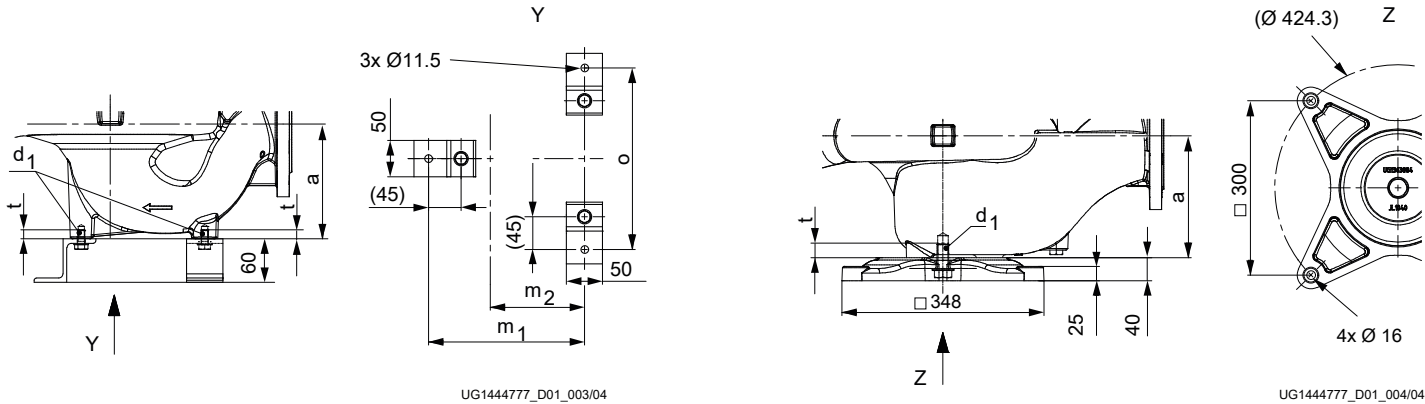


Fig. 7: Foundation fastening dimensions [mm]

Table 25: Pump set dimensions (fixed speed version), n = 1450 rpm / n = 1750 rpm (SI units)

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈l ₁ ³³⁾	≈l ₂ ³³⁾	t	≈x ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[kW]		[rpm]	[mm]																		
32-32-160	0.25	71M	✗	✗	32	87	119	131	M10	160	145	111	180	160	460	373	12.5	100	136	175	100	190
32-32-160	0.37	71M	✗	✗	32	87	119	131	M10	160	145	111	180	160	460	373	12.5	100	136	175	100	190
32-32-160	0.55	80M	✗	✗	32	87	119	131	M10	200	162	163	180	160	512	425	12.5	100	156	175	100	190
32-32-160	0.75	80M	✗	✗	32	87	119	131	M10	200	162	163	180	160	544	457	12.5	100	156	175	100	190
32-32-160	1.1	90S	-	✗	32	87	119	131	M10	200	190	170	180	160	597	510	12.5	100	156	175	100	190
32-32-160	1.5	90L	-	-	32	87	119	131	M10	200	190	170	180	160	597	510	12.5	100	156	175	100	190
32-32-200	0.37	71M	✗	-	32	100	134	146	M10	160	145	111	250	190	473	373	12.5	100	136	175	100	190
32-32-200	0.55	80M	✗	✗	32	100	134	146	M10	200	162	163	250	190	525	425	12.5	100	156	175	100	190
32-32-200	0.75	80M	✗	✗	32	100	134	146	M10	200	162	163	250	190	557	457	12.5	100	156	175	100	190
32-32-200	1.1	90S	✗	✗	32	100	134	146	M10	200	190	170	250	190	610	510	12.5	100	156	175	100	190
32-32-200	1.5	90L	-	✗	32	100	134	146	M10	200	190	170	250	190	610	510	12.5	100	156	175	100	190
32-32-200	2.2	100L	-	✗	32	100	134	146	M10	250	213	216	250	190	660	560	12.5	100	170	175	100	190
40-40-160	0.37	71M	✗	✗	40	114	118	132	M10	160	145	111	180	160	487	373	12.5	100	136	165	90	190
40-40-160	0.55	80M	✗	✗	40	114	118	132	M10	200	162	163	180	160	539	425	12.5	100	156	165	90	190
40-40-160	0.75	80M	✗	✗	40	114	118	132	M10	200	162	163	180	160	571	457	12.5	100	156	165	90	190
40-40-160	1.1	90S	✗	✗	40	114	118	132	M10	200	190	170	180	160	624	510	12.5	100	156	165	90	190
40-40-160	1.5	90L	-	✗	40	114	118	132	M10	200	190	170	180	160	624	510	12.5	100	156	165	90	190
40-40-160	2.2	100L	-	-	40	114	118	132	M10	250	213	216	180	160	674	560	12.5	100	170	165	90	190
40-40-250	0.55	80M	-	-	40	104	163	173	M10	200	162	163	220	220	533	429	12.5	100	160	175	100	190
40-40-250	0.75	80M	✗	-	40	104	163	173	M10	200	162	163	220	220	565	461	12.5	100	160	175	100	190
40-40-250	1.1	90S	✗	✗	40	104	163	173	M10	200	190	170	220	220	618	514	12.5	100	160	175	100	190
40-40-250	1.5	90L	✗	✗	40	104	163	173	M10	200	190	170	220	220	618	514	12.5	100	160	175	100	190
40-40-250	2.2	100L	✗	✗	40	104	163	173	M10	250	213	216	220	220	668	564	12.5	100	174	175	100	190
40-40-250	3	100L	✗	✗	40	104	163	173	M10	250	213	216	220	220	668	564	12.5	100	174	175	100	190
40-40-250	4	112M	✗	✗	40	104	163	173	M10	250	235	230	220	220	650	546	12.5	100	174	175	100	190
40-40-250	5.5	132S	-	✗	40	104	163	173	M10	300	274	222	220	220	758	654	12.5	100	197	175	100	190
40-40-250	7.5	132M	-	-	40	104	163	173	M10	300	298	222	220	220	758	654	12.5	100	197	175	100	190
50-50-160	0.37	71M	✗	-	50	134	116	135	M10	160	145	111	250	190	507	373	12.5	100	136	175	100	190
50-50-160	0.55	80M	✗	✗	50	134	116	135	M10	200	162	163	250	190	559	425	12.5	100	156	175	100	190
50-50-160	0.75	80M	✗	✗	50	134	116	135	M10	200	162	163	250	190	591	457	12.5	100	156	175	100	190
50-50-160	1.1	90S	✗	✗	50	134	116	135	M10	200	190	170	250	190	644	510	12.5	100	156	175	100	190
50-50-160	1.5	90L	✗	✗	50	134	116	135	M10	200	190	170	250	190	644	510	12.5	100	156	175	100	190

30 Motor rating at 50 Hz**31** DN = EN 1092-2, PN 16**32** Standard IEC motor**33** For the exact motor-related dimensions refer to the general arrangement drawing in the pump data sheet.**34** The dimensions of IE3, IE4, and IE5 drives may differ slightly.

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈l ₁ ³³⁾	≈l ₂ ³³⁾	t	≈x ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[kW]		[rpm]	[mm]																		
50-50-160	2.2	100L	-	✗	50	134	116	135	M10	250	213	216	250	190	694	560	12.5	100	170	175	100	190
50-50-160	3	100L	-	-	50	134	116	135	M10	250	213	216	250	190	694	560	12.5	100	170	175	100	190
50-50-160	4	112M	-	-	50	134	116	135	M10	250	235	230	250	190	676	542	12.5	100	170	175	100	190
50-50-250	0.75	80M	-	-	50	129	167	182	M10	200	162	163	220	220	596	467	12.5	100	166	175	100	190
50-50-250	1.1	90S	✗	-	50	129	167	182	M10	200	190	170	220	220	649	520	12.5	100	166	175	100	190
50-50-250	1.5	90L	✗	-	50	129	167	182	M10	200	190	170	220	220	649	520	12.5	100	166	175	100	190
50-50-250	2.2	100L	✗	✗	50	129	167	182	M10	250	213	216	220	220	699	570	12.5	100	180	175	100	190
50-50-250	3	100L	✗	✗	50	129	167	182	M10	250	213	216	220	220	699	570	12.5	100	180	175	100	190
50-50-250	4	112M	✗	✗	50	129	167	182	M10	250	235	230	220	220	681	552	12.5	100	180	175	100	190
50-50-250	5.5	132S	✗	✗	50	129	167	182	M10	300	274	222	220	220	789	660	12.5	100	203	175	100	190
50-50-250	7.5	132M	-	✗	50	129	167	182	M10	300	298	222	220	220	789	660	12.5	100	203	175	100	190
50-50-250	11	160M	-	-	50	129	167	182	M10	350	325	261	220	220	911	782	12.5	100	236	175	100	190
65-65-160	0.37	71M	✗	-	65	150	114	135	M10	160	145	111	270	170	523	373	12.5	100	136	175	110	210
65-65-160	0.55	80M	✗	✗	65	150	114	135	M10	200	162	163	270	170	575	425	12.5	100	156	175	110	210
65-65-160	0.75	80M	✗	✗	65	150	114	135	M10	200	162	163	270	170	607	457	12.5	100	156	175	110	210
65-65-160	1.1	90S	✗	✗	65	150	114	135	M10	200	190	170	270	170	660	510	12.5	100	156	175	110	210
65-65-160	1.5	90L	✗	✗	65	150	114	135	M10	200	190	170	270	170	660	510	12.5	100	156	175	110	210
65-65-160	2.2	100L	✗	✗	65	150	114	135	M10	250	213	216	270	170	710	560	12.5	100	170	175	110	210
65-65-160	3	100L	-	✗	65	150	114	135	M10	250	213	216	270	170	710	560	12.5	100	170	175	110	210
65-65-160	4	112M	-	-	65	150	114	135	M10	250	235	230	270	170	692	542	12.5	100	170	175	110	210
65-65-160	5.5	132S	-	-	65	150	114	135	M10	300	274	222	270	170	800	650	12.5	100	193	175	110	210
65-65-250	1.1	90S	-	-	65	134	174	196	M10	200	190	170	225	250	674	540	12.5	100	186	175	100	220
65-65-250	1.5	90L	✗	-	65	134	174	196	M10	200	190	170	225	250	674	540	12.5	100	186	175	100	220
65-65-250	2.2	100L	✗	✗	65	134	174	196	M10	250	213	216	225	250	724	590	12.5	100	200	175	100	220
65-65-250	3	100L	✗	✗	65	134	174	196	M10	250	213	216	225	250	724	590	12.5	100	200	175	100	220
65-65-250	4	112M	✗	✗	65	134	174	196	M10	250	235	230	225	250	706	572	12.5	100	200	175	100	220
65-65-250	5.5	132S	✗	✗	65	134	174	196	M10	300	274	222	225	250	814	680	12.5	100	223	175	100	220
65-65-250	7.5	132M	✗	✗	65	134	174	196	M10	300	298	222	225	250	814	680	12.5	100	223	175	100	220
65-65-250	11	160M	-	✗	65	134	174	196	M10	350	325	261	225	250	936	802	12.5	100	256	175	100	220
65-65-250	15	160L	-	-	65	134	174	196	M10	350	325	261	225	250	972	838	12.5	100	256	175	100	220
80-80-160	0.55	80M	✗	-	80	176	119	147	M10	200	162	163	260	180	601	425	12.5	100	156	175	100	230
80-80-160	0.75	80M	✗	-	80	176	119	147	M10	200	162	163	260	180	633	457	12.5	100	156	175	100	230
80-80-160	1.1	90S	✗	✗	80	176	119	147	M10	200	190	170	260	180	686	510	12.5	100	156	175	100	230
80-80-160	1.5	90L	✗	✗	80	176	119	147	M10	200	190	170	260	180	686	510	12.5	100	156	175	100	230
80-80-160	2.2	100L	✗	✗	80	176	119	147	M10	250	213	216	260	180	736	560	12.5	100	170	175	100	230
80-80-160	3	100L	✗	✗	80	176	119	147	M10	250	213	216	260	180	736	560	12.5	100	170	175	100	230
80-80-160	4	112M	-	✗	80	176	119	147	M10	250	235	230	260	180	718	542	12.5	100	170	175	100	230
80-80-160	5.5	132S	-	-	80	176	119	147	M10	300	274	222	260	180	826	650	12.5	100	193	175	100	230
80-80-200	1.1	90S	✗	-	80	158	150	170	M10	200	190	170	250	250	686	528	12.5	140	174	215	130	250
80-80-200	1.5	90L	✗	-	80	158	150	170	M10	200	190	170	250	250	686	528	12.5	140	174	215	130	250
80-80-200	2.2	100L	✗	✗	80	158	150	170	M10	250	213	216	250	250	736	578	12.5	140	188	215	130	250

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈l ₁ ³³⁾	≈l ₂ ³³⁾	t	≈x ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[kW]		[rpm]	[mm]																		
80-80-200	3	100L	✕	✕	80	158	150	170	M10	250	213	216	250	250	736	578	12.5	140	188	215	130	250
80-80-200	4	112M	✕	✕	80	158	150	170	M10	250	235	230	250	250	718	560	12.5	140	188	215	130	250
80-80-200	5.5	132S	✕	✕	80	158	150	170	M10	300	274	222	250	250	826	668	12.5	140	211	215	130	250
80-80-200	7.5	132M	-	✕	80	158	150	170	M10	300	298	222	250	250	826	668	12.5	140	211	215	130	250
80-80-200	11	160M	-	-	80	158	150	170	M10	350	325	261	250	250	948	790	12.5	140	244	215	130	250
80-80-250	2.2	100L	✕	-	80	187	173	193	M10	250	213	216	350	270	767	580	12.5	140	190	180	105	230
80-80-250	3	100L	✕	✕	80	187	173	193	M10	250	213	216	350	270	767	580	12.5	140	190	180	105	230
80-80-250	4	112M	✕	✕	80	187	173	193	M10	250	235	230	350	270	749	562	12.5	140	190	180	105	230
80-80-250	5.5	132S	✕	✕	80	187	173	193	M10	300	274	222	350	270	857	670	12.5	140	213	180	105	230
80-80-250	7.5	132M	✕	✕	80	187	173	193	M10	300	298	222	350	270	857	670	12.5	140	213	180	105	230
80-80-250	11	160M	✕	✕	80	187	173	193	M10	350	325	261	350	270	979	792	12.5	140	246	180	105	230
80-80-250	15	160L	-	✕	80	187	173	193	M10	350	325	261	350	270	1015	828	12.5	140	246	180	105	230
80-80-250	18.5	180M	-	-	80	187	173	193	M10	350	370	285	350	270	1050	863	12.5	140	246	180	105	230
100-100-125	0.37	71M	-	-	100	129	112	160	M10	160	145	111	230	220	511	382	12.5	100	145	195	100	230
100-100-125	0.55	80M	-	-	100	129	112	160	M10	200	162	163	230	220	563	434	12.5	100	165	195	100	230
100-100-125	0.75	80M	✕	-	100	129	112	160	M10	200	162	163	230	220	595	466	12.5	100	165	195	100	230
100-100-125	1.1	90S	✕	✕	100	129	112	160	M10	200	190	170	230	220	648	519	12.5	100	165	195	100	230
100-100-125	1.5	90L	✕	✕	100	129	112	160	M10	200	190	170	230	220	648	519	12.5	100	165	195	100	230
100-100-125	2.2	100L	-	✕	100	129	112	160	M10	250	213	216	230	220	698	569	12.5	100	179	195	100	230
100-100-125	3	100L	-	-	100	129	112	160	M10	250	213	216	230	220	698	569	12.5	100	179	195	100	230
100-100-125	4	112M	-	-	100	129	112	160	M10	250	235	230	230	220	680	551	12.5	100	179	195	100	230
100-100-160	0.75	80M	-	-	100	156	128	163	M20	200	162	163	245	205	639	483	25	140	182	---	---	---
100-100-160	1.1	90S	-	-	100	156	128	163	M20	200	190	170	245	205	692	536	25	140	182	---	---	---
100-100-160	1.5	90L	✕	-	100	156	128	163	M20	200	190	170	245	205	692	536	25	140	182	---	---	---
100-100-160	2.2	100L	✕	✕	100	156	128	163	M20	250	213	216	245	205	742	586	25	140	196	---	---	---
100-100-160	3	100L	✕	✕	100	156	128	163	M20	250	213	216	245	205	742	586	25	140	196	---	---	---
100-100-160	4	112M	✕	✕	100	156	128	163	M20	250	235	230	245	205	724	568	25	140	196	---	---	---
100-100-160	5.5	132S	-	✕	100	156	128	163	M20	300	274	222	245	205	832	676	25	140	219	---	---	---
100-100-160	7.5	132M	-	-	100	156	128	163	M20	300	298	222	245	205	832	676	25	140	219	---	---	---
100-100-160	11	160M	-	-	100	156	128	163	M20	350	325	261	245	205	954	798	25	140	252	---	---	---
100-100-200	2.2	100L	✕	-	100	179.5	172	202	M20	250	213	216	305	245	759.5	580	25	140	190	---	---	---
100-100-200	3	100L	✕	✕	100	179.5	172	202	M20	250	213	216	305	245	759.5	580	25	140	190	---	---	---
100-100-200	4	112M	✕	✕	100	179.5	172	202	M20	250	235	230	305	245	741.5	562	25	140	190	---	---	---
100-100-200	5.5	132S	✕	✕	100	179.5	172	202	M20	300	274	222	305	245	849.5	670	25	140	213	---	---	---
100-100-200	7.5	132M	✕	✕	100	179.5	172	202	M20	300	298	222	305	245	849.5	670	25	140	213	---	---	---
100-100-200	11	160M	-	✕	100	179.5	172	202	M20	350	325	261	305	245	971.5	792	25	140	246	---	---	---
100-100-200	15	160L	-	-	100	179.5	172	202	M20	350	325	261	305	245	1007.5	828	25	140	246	---	---	---
100-100-200	18.5	180M	-	-	100	179.5	172	202	M20	350	370	285	305	245	1042.5	863	25	140	246	---	---	---
100-100-250	2.2	100L	-	-	100	158	196	222	M20	250	213	216	290	260	762	604	25	140	214	---	---	---
100-100-250	3	100L	✕	-	100	158	196	222	M20	250	213	216	290	260	762	604	25	140	214	---	---	---
100-100-250	4	112M	✕	-	100	158	196	222	M20	250	235	230	290	260	744	586	25	140	214	---	---	---

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈l ₁ ³³⁾	≈l ₂ ³³⁾	t	≈x ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[kW]		[rpm]	[mm]																		
100-100-250	5.5	132S	✗	✗	100	158	196	222	M20	300	274	222	290	260	852	694	25	140	237	---	---	---
100-100-250	7.5	132M	✗	✗	100	158	196	222	M20	300	298	222	290	260	852	694	25	140	237	---	---	---
100-100-250	11	160M	✗	✗	100	158	196	222	M20	350	325	261	290	260	974	816	25	140	270	---	---	---
100-100-250	15	160L	✗	✗	100	158	196	222	M20	350	325	261	290	260	1010	852	25	140	270	---	---	---
100-100-250	18.5	180M	-	✗	100	158	196	222	M20	350	370	285	290	260	1045	887	25	140	270	---	---	---
100-100-250	22	180L	-	-	100	158	196	222	M20	350	370	285	290	260	1045	887	25	140	270	---	---	---
100-100-250	30	200L	-	-	100	158	196	222	M20	400	422	326	290	260	1097	939	25	140	270	---	---	---
125-125-160	2.2	100L	✗	-	125	203	182	226	M20	250	213	216	420	280	783	580	25	140	190	---	---	---
125-125-160	3	100L	✗	-	125	203	182	226	M20	250	213	216	420	280	783	580	25	140	190	---	---	---
125-125-160	4	112M	✗	✗	125	203	182	226	M20	250	235	230	420	280	765	562	25	140	190	---	---	---
125-125-160	5.5	132S	✗	✗	125	203	182	226	M20	300	274	222	420	280	873	670	25	140	213	---	---	---
125-125-160	7.5	132M	-	✗	125	203	182	226	M20	300	298	222	420	280	873	670	25	140	213	---	---	---
125-125-160	11	160M	-	-	125	203	182	226	M20	350	325	261	420	280	995	792	25	140	246	---	---	---
125-125-160	15	160L	-	-	125	203	182	226	M20	350	325	261	420	280	1031	828	25	140	246	---	---	---
125-125-200	2.2	100L	-	-	125	205.5	175	214	M20	250	213	216	380	320	785.5	580	25	140	190	---	---	---
125-125-200	3	100L	✗	-	125	205.5	175	214	M20	250	213	216	380	320	785.5	580	25	140	190	---	---	---
125-125-200	4	112M	✗	-	125	205.5	175	214	M20	250	235	230	380	320	767.5	562	25	140	190	---	---	---
125-125-200	5.5	132S	✗	✗	125	205.5	175	214	M20	300	274	222	380	320	875.5	670	25	140	213	---	---	---
125-125-200	7.5	132M	✗	✗	125	205.5	175	214	M20	300	298	222	380	320	875.5	670	25	140	213	---	---	---
125-125-200	11	160M	✗	✗	125	205.5	175	214	M20	350	325	261	380	320	997.5	792	25	140	246	---	---	---
125-125-200	15	160L	-	✗	125	205.5	175	214	M20	350	325	261	380	320	1033.5	828	25	140	246	---	---	---
125-125-200	18.5	180M	-	-	125	205.5	175	214	M20	350	370	285	380	320	1068.5	863	25	140	246	---	---	---
125-125-200	22	180L	-	-	125	205.5	175	214	M20	350	370	285	380	320	1068.5	863	25	140	246	---	---	---
125-125-200	30	200L	-	-	125	205.5	175	214	M20	400	422	326	380	320	1120.5	915	25	140	246	---	---	---
125-125-250 ³⁵⁾	4	112M	-	-	125	210	188	219	M20	250	235	230	380	320	772	562	25	140	190	---	---	---
125-125-250 ³⁵⁾	5.5	132S	✗	-	125	210	188	219	M20	300	274	222	380	320	880	670	25	140	213	---	---	---
125-125-250 ³⁵⁾	7.5	132M	✗	✗	125	210	188	219	M20	300	298	222	380	320	880	670	25	140	213	---	---	---
125-125-250 ³⁵⁾	11	160M	✗	✗	125	210	188	219	M20	350	325	261	380	320	1002	792	25	140	246	---	---	---
125-125-250 ³⁵⁾	15	160L	✗	✗	125	210	188	219	M20	350	325	261	380	320	1038	828	25	140	246	---	---	---
125-125-250 ³⁵⁾	18.5	180M	-	✗	125	210	188	219	M20	350	370	285	380	320	1073	863	25	140	246	---	---	---
125-125-250 ³⁵⁾	22	180L	-	✗	125	210	188	219	M20	350	370	285	380	320	1073	863	25	140	246	---	---	---
125-125-250 ³⁵⁾	30	200L	-	-	125	210	188	219	M20	400	422	326	380	320	1125	915	25	140	246	---	---	---
125-125-250 ³⁵⁾	37	225S	-	-	125	210	188	219	M20	450	460	372	380	320	1182	972	25	140	277	---	---	---
125-125-250 ³⁵⁾	45	225M	-	-	125	210	188	219	M20	450	468	372	380	320	1230	1020	25	140	277	---	---	---
150-150-200	3	100L	-	-	150	230	187	240	M20	250	213	216	385	315	810	580	25	140	190	---	---	---
150-150-200	4	112M	-	-	150	230	187	240	M20	250	235	230	385	315	792	562	25	140	190	---	---	---
150-150-200	5.5	132S	✗	-	150	230	187	240	M20	300	274	222	385	315	900	670	25	140	213	---	---	---
150-150-200	7.5	132M	✗	✗	150	230	187	240	M20	300	298	222	385	315	900	670	25	140	213	---	---	---

35 Not available for the US market

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈l ₁ ³³⁾	≈l ₂ ³³⁾	t	≈x ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[rpm]		[mm]																			
150-150-200	11	160M	✗	✗	150	230	187	240	M20	350	325	261	385	315	1022	792	25	140	246	---	---	---
150-150-200	15	160L	✗	✗	150	230	187	240	M20	350	325	261	385	315	1058	828	25	140	246	---	---	---
150-150-200	18.5	180M	-	✗	150	230	187	240	M20	350	370	285	385	315	1093	863	25	140	246	---	---	---
150-150-200	22	180L	-	-	150	230	187	240	M20	350	370	285	385	315	1093	863	25	140	246	---	---	---
150-150-200	30	200L	-	-	150	230	187	240	M20	400	422	326	385	315	1145	915	25	140	246	---	---	---
150-150-200	37	225S	-	-	150	230	187	240	M20	450	460	372	385	315	1202	972	25	140	277	---	---	---
150-150-250	5.5	132S	-	-	150	222	226	275	M20	300	274	222	370	330	907	685	25	140	228	---	---	---
150-150-250	7.5	132M	✗	-	150	222	226	275	M20	300	298	222	370	330	907	685	25	140	228	---	---	---
150-150-250	11	160M	✗	✗	150	222	226	275	M20	350	325	261	370	330	1029	807	25	140	261	---	---	---
150-150-250	15	160L	✗	✗	150	222	226	275	M20	350	325	261	370	330	1065	843	25	140	261	---	---	---
150-150-250	18.5	180M	✗	✗	150	222	226	275	M20	350	370	285	370	330	1100	878	25	140	261	---	---	---
150-150-250	22	180L	✗	✗	150	222	226	275	M20	350	370	285	370	330	1100	878	25	140	261	---	---	---
150-150-250	30	200L	-	✗	150	222	226	275	M20	400	422	326	370	330	1152	930	25	140	261	---	---	---
150-150-250	37	225S	-	✗	150	222	226	275	M20	450	460	372	370	330	1209	987	25	140	292	---	---	---
150-150-250	45	225M	-	-	150	222	226	275	M20	450	468	372	370	330	1257	1035	25	140	292	---	---	---
200-200-250	7.5	132M	-	-	200	222	233	303	M20	300	298	222	400	400	945	723	25	140	266	---	---	---
200-200-250	11	160M	✗	-	200	222	233	303	M20	350	325	261	400	400	1067	845	25	140	299	---	---	---
200-200-250	15	160L	✗	-	200	222	233	303	M20	350	325	261	400	400	1103	881	25	140	299	---	---	---
200-200-250	18.5	180M	✗	✗	200	222	233	303	M20	350	370	285	400	400	1138	916	25	140	299	---	---	---
200-200-250	22	180L	✗	✗	200	222	233	303	M20	350	370	285	400	400	1138	916	25	140	299	---	---	---
200-200-250	30	200L	✗	✗	200	222	233	303	M20	400	422	326	400	400	1190	968	25	140	299	---	---	---
200-200-250	37	225S	✗	✗	200	222	233	303	M20	450	460	372	400	400	1247	1025	25	140	330	---	---	---
200-200-250	45	225M	-	✗	200	222	233	303	M20	450	468	372	400	400	1295	1073	25	140	330	---	---	---
200-200-315	18.5	180M	-	-	200	255	259	318	M20	350	370	285	490	410	1148	893	25	140	276	---	---	---
200-200-315	22	180L	✗	-	200	255	259	318	M20	350	370	285	490	410	1148	893	25	140	276	---	---	---
200-200-315	30	200L	✗	✗	200	255	259	318	M20	400	422	326	490	410	1200	945	25	140	276	---	---	---
200-200-315	37	225S	✗	✗	200	255	259	318	M20	450	460	372	490	410	1257	1002	25	140	307	---	---	---
200-200-315	45	225M	✗	✗	200	255	259	318	M20	450	468	372	490	410	1305	1050	25	140	307	---	---	---
200-200-315	55	250M	✗	✗	200	255	259	318	M20	550	520	451	490	410	1391	1136	25	140	319	---	---	---

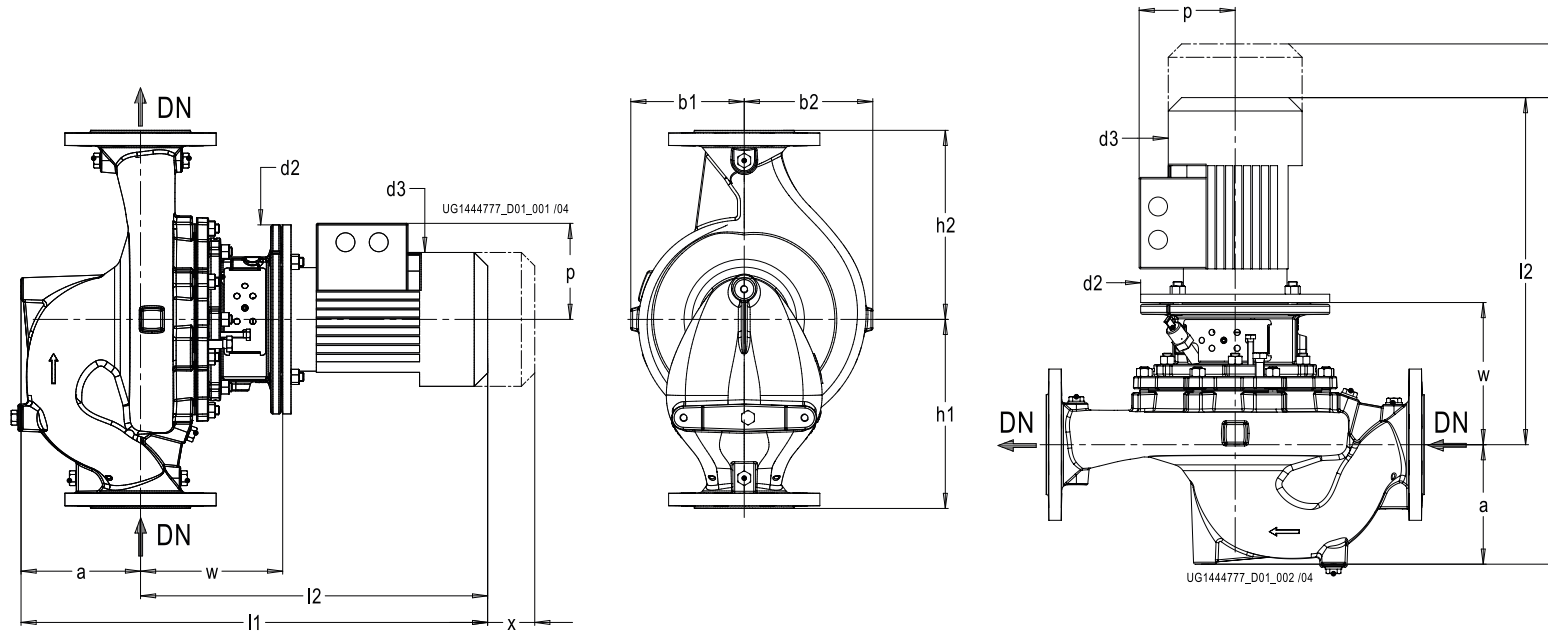


Fig. 8: Dimensions

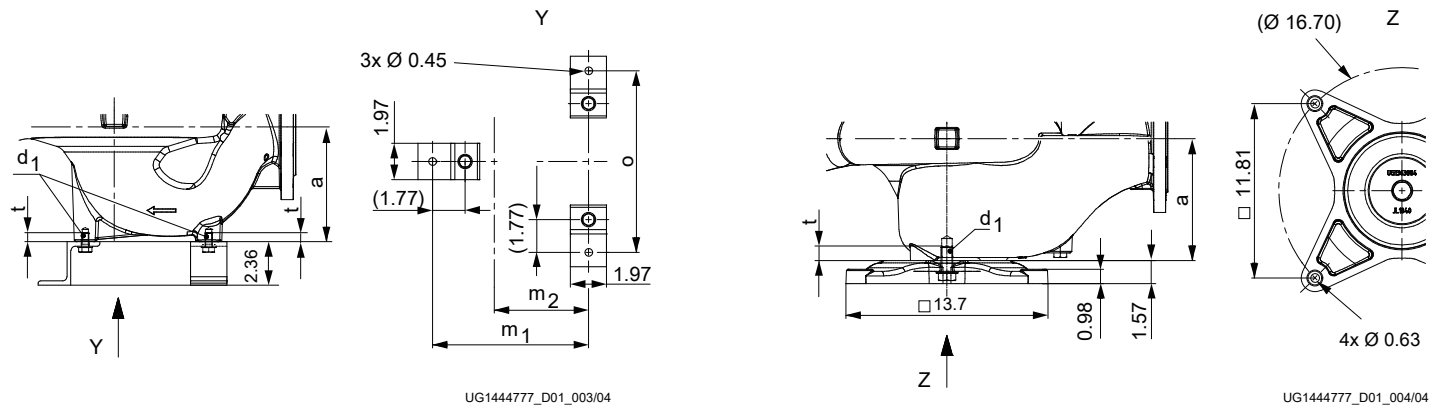


Fig. 9: Foundation fastening dimensions [inch]

Table 26: Pump set dimensions (fixed speed version), n = 1450 rpm / n = 1750 rpm (imperial units)

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈l ₁ ³³⁾	≈l ₂ ³³⁾	t	≈x ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[hp]		[rpm]	[inch]																		
32-32-160	0.34	71M	✕	✕	NPS 11/4	3.43	4.69	5.16	M10	6.30	5.71	4.37	7.09	6.30	18.11	14.69	0.49	3.94	5.35	6.89	3.94	7.48
32-32-160	0.50	71M	✕	✕	NPS 11/4	3.43	4.69	5.16	M10	6.30	5.71	4.37	7.09	6.30	18.11	14.69	0.49	3.94	5.35	6.89	3.94	7.48
32-32-160	0.74	80M	✕	✕	NPS 11/4	3.43	4.69	5.16	M10	7.87	6.38	6.42	7.09	6.30	20.16	16.73	0.49	3.94	6.14	6.89	3.94	7.48
32-32-160	1.01	80M	✕	✕	NPS 11/4	3.43	4.69	5.16	M10	7.87	6.38	6.42	7.09	6.30	21.42	17.99	0.49	3.94	6.14	6.89	3.94	7.48
32-32-160	1.48	90S	-	✕	NPS 11/4	3.43	4.69	5.16	M10	7.87	7.48	6.69	7.09	6.30	23.50	20.08	0.49	3.94	6.14	6.89	3.94	7.48
32-32-160	2.01	90L	-	-	NPS 11/4	3.43	4.69	5.16	M10	7.87	7.48	6.69	7.09	6.30	23.50	20.08	0.49	3.94	6.14	6.89	3.94	7.48
32-32-200	0.50	71M	✕	-	NPS 11/4	3.94	5.28	5.75	M10	6.30	5.71	4.37	9.84	7.48	18.62	14.69	0.49	3.94	5.35	6.89	3.94	7.48
32-32-200	0.74	80M	✕	✕	NPS 11/4	3.94	5.28	5.75	M10	7.87	6.38	6.42	9.84	7.48	20.67	16.73	0.49	3.94	6.14	6.89	3.94	7.48
32-32-200	1.01	80M	✕	✕	NPS 11/4	3.94	5.28	5.75	M10	7.87	6.38	6.42	9.84	7.48	21.93	17.99	0.49	3.94	6.14	6.89	3.94	7.48
32-32-200	1.48	90S	✕	✕	NPS 11/4	3.94	5.28	5.75	M10	7.87	7.48	6.69	9.84	7.48	24.02	20.08	0.49	3.94	6.14	6.89	3.94	7.48
32-32-200	2.01	90L	-	✕	NPS 11/4	3.94	5.28	5.75	M10	7.87	7.48	6.69	9.84	7.48	24.02	20.08	0.49	3.94	6.14	6.89	3.94	7.48
32-32-200	2.95	100L	-	✕	NPS 11/4	3.94	5.28	5.75	M10	9.84	8.39	8.50	9.84	7.48	25.98	22.05	0.49	3.94	6.69	6.89	3.94	7.48
40-40-160	0.50	71M	✕	✕	NPS 11/2	4.49	4.65	5.20	M10	6.30	5.71	4.37	7.09	6.30	19.17	14.69	0.49	3.94	5.35	6.50	3.54	7.48
40-40-160	0.74	80M	✕	✕	NPS 11/2	4.49	4.65	5.20	M10	7.87	6.38	6.42	7.09	6.30	21.22	16.73	0.49	3.94	6.14	6.50	3.54	7.48
40-40-160	1.01	80M	✕	✕	NPS 11/2	4.49	4.65	5.20	M10	7.87	6.38	6.42	7.09	6.30	22.48	17.99	0.49	3.94	6.14	6.50	3.54	7.48
40-40-160	1.48	90S	✕	✕	NPS 11/2	4.49	4.65	5.20	M10	7.87	7.48	6.69	7.09	6.30	24.57	20.08	0.49	3.94	6.14	6.50	3.54	7.48
40-40-160	2.01	90L	-	✕	NPS 11/2	4.49	4.65	5.20	M10	7.87	7.48	6.69	7.09	6.30	24.57	20.08	0.49	3.94	6.14	6.50	3.54	7.48
40-40-160	2.95	100L	-	-	NPS 11/2	4.49	4.65	5.20	M10	9.84	8.39	8.50	7.09	6.30	26.54	22.05	0.49	3.94	6.69	6.50	3.54	7.48
40-40-250	0.74	80M	-	-	NPS 11/2	4.09	6.42	6.81	M10	7.87	6.38	6.42	8.66	8.66	20.98	16.89	0.49	3.94	6.30	6.89	3.94	7.48
40-40-250	1.01	80M	✕	-	NPS 11/2	4.09	6.42	6.81	M10	7.87	6.38	6.42	8.66	8.66	22.24	18.15	0.49	3.94	6.30	6.89	3.94	7.48
40-40-250	1.48	90S	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	7.87	7.48	6.69	8.66	8.66	24.33	20.24	0.49	3.94	6.30	6.89	3.94	7.48
40-40-250	2.01	90L	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	7.87	7.48	6.69	8.66	8.66	24.33	20.24	0.49	3.94	6.30	6.89	3.94	7.48
40-40-250	2.95	100L	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	9.84	8.39	8.50	8.66	8.66	26.30	22.20	0.49	3.94	6.85	6.89	3.94	7.48
40-40-250	4.02	100L	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	9.84	8.39	8.50	8.66	8.66	26.30	22.20	0.49	3.94	6.85	6.89	3.94	7.48
40-40-250	5.36	112M	✕	✕	NPS 11/2	4.09	6.42	6.81	M10	9.84	9.25	9.06	8.66	8.66	25.59	21.50	0.49	3.94	6.85	6.89	3.94	7.48
40-40-250	7.38	132S	-	✕	NPS 11/2	4.09	6.42	6.81	M10	11.81	10.79	8.74	8.66	8.66	29.84	25.75	0.49	3.94	7.76	6.89	3.94	7.48
40-40-250	10.06	132M	-	-	NPS 11/2	4.09	6.42	6.81	M10	11.81	11.73	8.74	8.66	8.66	29.84	25.75	0.49	3.94	7.76	6.89	3.94	7.48
50-50-160	0.50	71M	✕	-	NPS 2	5.28	4.57	5.31	M10	6.30	5.71	4.37	9.84	7.48	19.96	14.69	0.49	3.94	5.35	6.89	3.94	7.48
50-50-160	0.74	80M	✕	✕	NPS 2	5.28	4.57	5.31	M10	7.87	6.38	6.42	9.84	7.48	22.01	16.73	0.49	3.94	6.14	6.89	3.94	7.48
50-50-160	1.01	80M	✕	✕	NPS 2	5.28	4.57	5.31	M10	7.87	6.38	6.42	9.84	7.48	23.27	17.99	0.49	3.94	6.14	6.89	3.94	7.48
50-50-160	1.48	90S	✕	✕	NPS 2	5.28	4.57	5.31	M10	7.87	7.48	6.69	9.84	7.48	25.35	20.08	0.49	3.94	6.14	6.89	3.94	7.48
50-50-160	2.01	90L	✕	✕	NPS 2	5.28	4.57	5.31	M10	7.87	7.48	6.69	9.84	7.48	25.35	20.08	0.49	3.94	6.14	6.89	3.94	7.48
50-50-160	2.95	100L	-	✕	NPS 2	5.28	4.57	5.31	M10	9.84	8.39	8.50	9.84	7.48	27.32	22.05	0.49	3.94	6.69	6.89	3.94	7.48
50-50-160	4.02	100L	-	-	NPS 2	5.28	4.57	5.31	M10	9.84	8.39	8.50	9.84	7.48	27.32	22.05	0.49	3.94	6.69	6.89	3.94	7.48
50-50-160	5.36	112M	-	-	NPS 2	5.28	4.57	5.31	M10	9.84	9.25	9.06	9.84	7.48	26.61	21.34	0.49	3.94	6.69	6.89	3.94	7.48
50-50-250	1.01	80M	-	-	NPS 2	5.08	6.57	7.17	M10	7.87	6.38	6.42	8.66	8.66	23.46	18.39	0.49	3.94	6.54	6.89	3.94	7.48
50-50-250	1.48	90S	✕	-	NPS 2	5.08	6.57	7.17	M10	7.87	7.48	6.69	8.66	8.66	25.55	20.47	0.49	3.94	6.54	6.89	3.94	7.48
50-50-250	2.01	90L	✕	-	NPS 2	5.08	6.57	7.17	M10	7.87	7.48	6.69	8.66	8.66	25.55	20.47	0.49	3.94	6.54	6.89	3.94	7.48
50-50-250	2.95	100L	✕	✕	NPS 2	5.08	6.57	7.17	M10	9.84	8.39	8.50	8.66	8.66	27.52	22.44	0.49	3.94	7.09	6.89	3.94	7.48

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈l ₁ ³³⁾	≈l ₂ ³³⁾	t	≈x ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[rpm]		[inch]																			
50-50-250	4.02	100L	✗	✗	NPS 2	5.08	6.57	7.17	M10	9.84	8.39	8.50	8.66	8.66	27.52	22.44	0.49	3.94	7.09	6.89	3.94	7.48
50-50-250	5.36	112M	✗	✗	NPS 2	5.08	6.57	7.17	M10	9.84	9.25	9.06	8.66	8.66	26.81	21.73	0.49	3.94	7.09	6.89	3.94	7.48
50-50-250	7.38	132S	✗	✗	NPS 2	5.08	6.57	7.17	M10	11.81	10.79	8.74	8.66	8.66	31.06	25.98	0.49	3.94	7.99	6.89	3.94	7.48
50-50-250	10.06	132M	-	✗	NPS 2	5.08	6.57	7.17	M10	11.81	11.73	8.74	8.66	8.66	31.06	25.98	0.49	3.94	7.99	6.89	3.94	7.48
50-50-250	14.75	160M	-	-	NPS 2	5.08	6.57	7.17	M10	13.78	12.80	10.28	8.66	8.66	35.87	30.79	0.49	3.94	9.29	6.89	3.94	7.48
65-65-160	0.50	71M	✗	-	NPS 2 1/2	5.91	4.49	5.31	M10	6.30	5.71	4.37	10.63	6.69	20.59	14.69	0.49	3.94	5.35	6.89	4.33	8.27
65-65-160	0.74	80M	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	7.87	6.38	6.42	10.63	6.69	22.64	16.73	0.49	3.94	6.14	6.89	4.33	8.27
65-65-160	1.01	80M	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	7.87	6.38	6.42	10.63	6.69	23.90	17.99	0.49	3.94	6.14	6.89	4.33	8.27
65-65-160	1.48	90S	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	7.87	7.48	6.69	10.63	6.69	25.98	20.08	0.49	3.94	6.14	6.89	4.33	8.27
65-65-160	2.01	90L	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	7.87	7.48	6.69	10.63	6.69	25.98	20.08	0.49	3.94	6.14	6.89	4.33	8.27
65-65-160	2.95	100L	✗	✗	NPS 2 1/2	5.91	4.49	5.31	M10	9.84	8.39	8.50	10.63	6.69	27.95	22.05	0.49	3.94	6.69	6.89	4.33	8.27
65-65-160	4.02	100L	-	✗	NPS 2 1/2	5.91	4.49	5.31	M10	9.84	8.39	8.50	10.63	6.69	27.95	22.05	0.49	3.94	6.69	6.89	4.33	8.27
65-65-160	5.36	112M	-	-	NPS 2 1/2	5.91	4.49	5.31	M10	9.84	9.25	9.06	10.63	6.69	27.24	21.34	0.49	3.94	6.69	6.89	4.33	8.27
65-65-160	7.38	132S	-	-	NPS 2 1/2	5.91	4.49	5.31	M10	11.81	10.79	8.74	10.63	6.69	31.50	25.59	0.49	3.94	7.60	6.89	4.33	8.27
65-65-250	1.48	90S	-	-	NPS 2 1/2	5.28	6.85	7.72	M10	7.87	7.48	6.69	8.86	9.84	26.54	21.26	0.49	3.94	7.32	6.89	3.94	8.66
65-65-250	2.01	90L	✗	-	NPS 2 1/2	5.28	6.85	7.72	M10	7.87	7.48	6.69	8.86	9.84	26.54	21.26	0.49	3.94	7.32	6.89	3.94	8.66
65-65-250	2.95	100L	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	9.84	8.39	8.50	8.86	9.84	28.50	23.23	0.49	3.94	7.87	6.89	3.94	8.66
65-65-250	4.02	100L	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	9.84	8.39	8.50	8.86	9.84	28.50	23.23	0.49	3.94	7.87	6.89	3.94	8.66
65-65-250	5.36	112M	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	9.84	9.25	9.06	8.86	9.84	27.80	22.52	0.49	3.94	7.87	6.89	3.94	8.66
65-65-250	7.38	132S	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	11.81	10.79	8.74	8.86	9.84	32.05	26.77	0.49	3.94	8.78	6.89	3.94	8.66
65-65-250	10.06	132M	✗	✗	NPS 2 1/2	5.28	6.85	7.72	M10	11.81	11.73	8.74	8.86	9.84	32.05	26.77	0.49	3.94	8.78	6.89	3.94	8.66
65-65-250	14.75	160M	-	✗	NPS 2 1/2	5.28	6.85	7.72	M10	13.78	12.80	10.28	8.86	9.84	36.85	31.57	0.49	3.94	10.08	6.89	3.94	8.66
65-65-250	20.12	160L	-	-	NPS 2 1/2	5.28	6.85	7.72	M10	13.78	12.80	10.28	8.86	9.84	38.27	32.99	0.49	3.94	10.08	6.89	3.94	8.66
80-80-160	0.74	80M	✗	-	NPS 3	6.93	4.69	5.79	M10	7.87	6.38	6.42	10.24	7.09	23.66	16.73	0.49	3.94	6.14	6.89	3.94	9.06
80-80-160	1.01	80M	✗	-	NPS 3	6.93	4.69	5.79	M10	7.87	6.38	6.42	10.24	7.09	24.92	17.99	0.49	3.94	6.14	6.89	3.94	9.06
80-80-160	1.48	90S	✗	✗	NPS 3	6.93	4.69	5.79	M10	7.87	7.48	6.69	10.24	7.09	27.01	20.08	0.49	3.94	6.14	6.89	3.94	9.06
80-80-160	2.01	90L	✗	✗	NPS 3	6.93	4.69	5.79	M10	7.87	7.48	6.69	10.24	7.09	27.01	20.08	0.49	3.94	6.14	6.89	3.94	9.06
80-80-160	2.95	100L	✗	✗	NPS 3	6.93	4.69	5.79	M10	9.84	8.39	8.50	10.24	7.09	28.98	22.05	0.49	3.94	6.69	6.89	3.94	9.06
80-80-160	4.02	100L	✗	✗	NPS 3	6.93	4.69	5.79	M10	9.84	8.39	8.50	10.24	7.09	28.98	22.05	0.49	3.94	6.69	6.89	3.94	9.06
80-80-160	5.36	112M	-	✗	NPS 3	6.93	4.69	5.79	M10	9.84	9.25	9.06	10.24	7.09	28.27	21.34	0.49	3.94	6.69	6.89	3.94	9.06
80-80-160	7.38	132S	-	-	NPS 3	6.93	4.69	5.79	M10	11.81	10.79	8.74	10.24	7.09	32.52	25.59	0.49	3.94	7.60	6.89	3.94	9.06
80-80-200	1.48	90S	✗	-	NPS 3	6.22	5.91	6.69	M10	7.87	7.48	6.69	9.84	9.84	27.01	20.79	0.49	5.51	6.85	8.46	5.12	9.84
80-80-200	2.01	90L	✗	-	NPS 3	6.22	5.91	6.69	M10	7.87	7.48	6.69	9.84	9.84	27.01	20.79	0.49	5.51	6.85	8.46	5.12	9.84
80-80-200	2.95	100L	✗	✗	NPS 3	6.22	5.91	6.69	M10	9.84	8.39	8.50	9.84	9.84	28.98	22.76	0.49	5.51	7.40	8.46	5.12	9.84
80-80-200	4.02	100L	✗	✗	NPS 3	6.22	5.91	6.69	M10	9.84	8.39	8.50	9.84	9.84	28.98	22.76	0.49	5.51	7.40	8.46	5.12	9.84
80-80-200	5.36	112M	✗	✗	NPS 3	6.22	5.91	6.69	M10	9.84	9.25	9.06	9.84	9.84	28.27	22.05	0.49	5.51	7.40	8.46	5.12	9.84
80-80-200	7.38	132S	✗	✗	NPS 3	6.22	5.91	6.69	M10	11.81	10.79	8.74	9.84	9.84	32.52	26.30	0.49	5.51	8.31	8.46	5.12	9.84
80-80-200	10.06	132M	-	✗	NPS 3	6.22	5.91	6.69	M10	11.81	11.73	8.74	9.84	9.84	32.52	26.30	0.49	5.51	8.31	8.46	5.12	9.84
80-80-200	14.75	160M	-	-	NPS 3	6.22	5.91	6.69	M10	13.78	12.80	10.28	9.84	9.84	37.32	31.10	0.49	5.51	9.61	8.46	5.12	9.84
80-80-250	2.95	100L	✗	-	NPS 3	7.36	6.81	7.60	M10	9.84	8.39	8.50	13.78	10.63	30.20	22.83	0.49	5.51	7.48	7.09	4.13	9.06
80-80-250	4.02	100L	✗	✗	NPS 3	7.36	6.81	7.60	M10	9.84	8.39	8.50	13.78	10.63	30.20	22.83	0.49	5.51	7.48	7.09	4.13	9.06

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈l ₁ ³³⁾	≈l ₂ ³³⁾	t	≈x ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[rpm]		[inch]																			
80-80-250	5.36	112M	✕	✕	NPS 3	7.36	6.81	7.60	M10	9.84	9.25	9.06	13.78	10.63	29.49	22.13	0.49	5.51	7.48	7.09	4.13	9.06
80-80-250	7.38	132S	✕	✕	NPS 3	7.36	6.81	7.60	M10	11.81	10.79	8.74	13.78	10.63	33.74	26.38	0.49	5.51	8.39	7.09	4.13	9.06
80-80-250	10.06	132M	✕	✕	NPS 3	7.36	6.81	7.60	M10	11.81	11.73	8.74	13.78	10.63	33.74	26.38	0.49	5.51	8.39	7.09	4.13	9.06
80-80-250	14.75	160M	✕	✕	NPS 3	7.36	6.81	7.60	M10	13.78	12.80	10.28	13.78	10.63	38.54	31.18	0.49	5.51	9.69	7.09	4.13	9.06
80-80-250	20.12	160L	-	✕	NPS 3	7.36	6.81	7.60	M10	13.78	12.80	10.28	13.78	10.63	39.96	32.60	0.49	5.51	9.69	7.09	4.13	9.06
80-80-250	24.81	180M	-	-	NPS 3	7.36	6.81	7.60	M10	13.78	14.57	11.22	13.78	10.63	41.34	33.98	0.49	5.51	9.69	7.09	4.13	9.06
100-100-125	0.50	71M	-	-	NPS 4	5.08	4.41	6.30	M10	6.30	5.71	4.37	9.06	8.66	20.12	15.04	0.49	3.94	5.71	7.68	3.94	9.06
100-100-125	0.74	80M	-	-	NPS 4	5.08	4.41	6.30	M10	7.87	6.38	6.42	9.06	8.66	22.17	17.09	0.49	3.94	6.50	7.68	3.94	9.06
100-100-125	1.01	80M	✕	-	NPS 4	5.08	4.41	6.30	M10	7.87	6.38	6.42	9.06	8.66	23.43	18.35	0.49	3.94	6.50	7.68	3.94	9.06
100-100-125	1.48	90S	✕	✕	NPS 4	5.08	4.41	6.30	M10	7.87	7.48	6.69	9.06	8.66	25.51	20.43	0.49	3.94	6.50	7.68	3.94	9.06
100-100-125	2.01	90L	✕	✕	NPS 4	5.08	4.41	6.30	M10	7.87	7.48	6.69	9.06	8.66	25.51	20.43	0.49	3.94	6.50	7.68	3.94	9.06
100-100-125	2.95	100L	-	✕	NPS 4	5.08	4.41	6.30	M10	9.84	8.39	8.50	9.06	8.66	27.48	22.40	0.49	3.94	7.05	7.68	3.94	9.06
100-100-125	4.02	100L	-	-	NPS 4	5.08	4.41	6.30	M10	9.84	8.39	8.50	9.06	8.66	27.48	22.40	0.49	3.94	7.05	7.68	3.94	9.06
100-100-125	5.36	112M	-	-	NPS 4	5.08	4.41	6.30	M10	9.84	9.25	9.06	9.06	8.66	26.77	21.69	0.49	3.94	7.05	7.68	3.94	9.06
100-100-160	1.01	80M	-	-	NPS 4	6.14	5.04	6.42	M20	7.87	6.38	6.42	9.65	8.07	25.16	19.02	0.98	5.51	7.17	---	---	---
100-100-160	1.48	90S	-	-	NPS 4	6.14	5.04	6.42	M20	7.87	7.48	6.69	9.65	8.07	27.24	21.10	0.98	5.51	7.17	---	---	---
100-100-160	2.01	90L	✕	-	NPS 4	6.14	5.04	6.42	M20	7.87	7.48	6.69	9.65	8.07	27.24	21.10	0.98	5.51	7.17	---	---	---
100-100-160	2.95	100L	✕	✕	NPS 4	6.14	5.04	6.42	M20	9.84	8.39	8.50	9.65	8.07	29.21	23.07	0.98	5.51	7.72	---	---	---
100-100-160	4.02	100L	✕	✕	NPS 4	6.14	5.04	6.42	M20	9.84	8.39	8.50	9.65	8.07	29.21	23.07	0.98	5.51	7.72	---	---	---
100-100-160	5.36	112M	✕	✕	NPS 4	6.14	5.04	6.42	M20	9.84	9.25	9.06	9.65	8.07	28.50	22.36	0.98	5.51	7.72	---	---	---
100-100-160	7.38	132S	-	✕	NPS 4	6.14	5.04	6.42	M20	11.81	10.79	8.74	9.65	8.07	32.76	26.61	0.98	5.51	8.62	---	---	---
100-100-160	10.06	132M	-	-	NPS 4	6.14	5.04	6.42	M20	11.81	11.73	8.74	9.65	8.07	32.76	26.61	0.98	5.51	8.62	---	---	---
100-100-160	14.75	160M	-	-	NPS 4	6.14	5.04	6.42	M20	13.78	12.80	10.28	9.65	8.07	37.56	31.42	0.98	5.51	9.92	---	---	---
100-100-200	2.95	100L	✕	-	NPS 4	7.07	6.77	7.95	M20	9.84	8.39	8.50	12.01	9.65	29.90	22.83	0.98	5.51	7.48	---	---	---
100-100-200	4.02	100L	✕	✕	NPS 4	7.07	6.77	7.95	M20	9.84	8.39	8.50	12.01	9.65	29.90	22.83	0.98	5.51	7.48	---	---	---
100-100-200	5.36	112M	✕	✕	NPS 4	7.07	6.77	7.95	M20	9.84	9.25	9.06	12.01	9.65	29.19	22.13	0.98	5.51	7.48	---	---	---
100-100-200	7.38	132S	✕	✕	NPS 4	7.07	6.77	7.95	M20	11.81	10.79	8.74	12.01	9.65	33.44	26.38	0.98	5.51	8.39	---	---	---
100-100-200	10.06	132M	✕	✕	NPS 4	7.07	6.77	7.95	M20	11.81	11.73	8.74	12.01	9.65	33.44	26.38	0.98	5.51	8.39	---	---	---
100-100-200	14.75	160M	-	✕	NPS 4	7.07	6.77	7.95	M20	13.78	12.80	10.28	12.01	9.65	38.25	31.18	0.98	5.51	9.69	---	---	---
100-100-200	20.12	160L	-	-	NPS 4	7.07	6.77	7.95	M20	13.78	12.80	10.28	12.01	9.65	39.67	32.60	0.98	5.51	9.69	---	---	---
100-100-200	24.81	180M	-	-	NPS 4	7.07	6.77	7.95	M20	13.78	14.57	11.22	12.01	9.65	41.04	33.98	0.98	5.51	9.69	---	---	---
100-100-250	2.95	100L	-	-	NPS 4	6.22	7.72	8.74	M20	9.84	8.39	8.50	11.42	10.24	30.00	23.78	0.98	5.51	8.43	---	---	---
100-100-250	4.02	100L	✕	-	NPS 4	6.22	7.72	8.74	M20	9.84	8.39	8.50	11.42	10.24	30.00	23.78	0.98	5.51	8.43	---	---	---
100-100-250	5.36	112M	✕	-	NPS 4	6.22	7.72	8.74	M20	9.84	9.25	9.06	11.42	10.24	29.29	23.07	0.98	5.51	8.43	---	---	---
100-100-250	7.38	132S	✕	✕	NPS 4	6.22	7.72	8.74	M20	11.81	10.79	8.74	11.42	10.24	33.54	27.32	0.98	5.51	9.33	---	---	---
100-100-250	10.06	132M	✕	✕	NPS 4	6.22	7.72	8.74	M20	11.81	11.73	8.74	11.42	10.24	33.54	27.32	0.98	5.51	9.33	---	---	---
100-100-250	14.75	160M	✕	✕	NPS 4	6.22	7.72	8.74	M20	13.78	12.80	10.28	11.42	10.24	38.35	32.13	0.98	5.51	10.63	---	---	---
100-100-250	20.12	160L	✕	✕	NPS 4	6.22	7.72	8.74	M20	13.78	12.80	10.28	11.42	10.24	39.76	33.54	0.98	5.51	10.63	---	---	---
100-100-250	24.81	180M	-	✕	NPS 4	6.22	7.72	8.74	M20	13.78	14.57	11.22	11.42	10.24	41.14	34.92	0.98	5.51	10.63	---	---	---
100-100-250	29.50	180L	-	-	NPS 4	6.22	7.72	8.74	M20	13.78	14.57	11.22	11.42	10.24	41.14	34.92	0.98	5.51	10.63	---	---	---
100-100-250	40.23	200L	-	-	NPS 4	6.22	7.72	8.74	M20	15.75	16.61	12.83	11.42	10.24	43.19	36.97	0.98	5.51	10.63	---	---	---

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈I ₁ ³³⁾	≈I ₂ ³³⁾	t	≈χ ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[rpm]		[inch]																			
125-125-160	2.95	100L	✗	-	NPS 5	7.99	7.17	8.90	M20	9.84	8.39	8.50	16.54	11.02	30.83	22.83	0.98	5.51	7.48	---	---	---
125-125-160	4.02	100L	✗	-	NPS 5	7.99	7.17	8.90	M20	9.84	8.39	8.50	16.54	11.02	30.83	22.83	0.98	5.51	7.48	---	---	---
125-125-160	5.36	112M	✗	✗	NPS 5	7.99	7.17	8.90	M20	9.84	9.25	9.06	16.54	11.02	30.12	22.13	0.98	5.51	7.48	---	---	---
125-125-160	7.38	132S	✗	✗	NPS 5	7.99	7.17	8.90	M20	11.81	10.79	8.74	16.54	11.02	34.37	26.38	0.98	5.51	8.39	---	---	---
125-125-160	10.06	132M	-	✗	NPS 5	7.99	7.17	8.90	M20	11.81	11.73	8.74	16.54	11.02	34.37	26.38	0.98	5.51	8.39	---	---	---
125-125-160	14.75	160M	-	-	NPS 5	7.99	7.17	8.90	M20	13.78	12.80	10.28	16.54	11.02	39.17	31.18	0.98	5.51	9.69	---	---	---
125-125-160	20.12	160L	-	-	NPS 5	7.99	7.17	8.90	M20	13.78	12.80	10.28	16.54	11.02	40.59	32.60	0.98	5.51	9.69	---	---	---
125-125-200	2.95	100L	-	-	NPS 5	8.09	6.89	8.43	M20	9.84	8.39	8.50	14.96	12.60	30.93	22.83	0.98	5.51	7.48	---	---	---
125-125-200	4.02	100L	✗	-	NPS 5	8.09	6.89	8.43	M20	9.84	8.39	8.50	14.96	12.60	30.93	22.83	0.98	5.51	7.48	---	---	---
125-125-200	5.36	112M	✗	-	NPS 5	8.09	6.89	8.43	M20	9.84	9.25	9.06	14.96	12.60	30.22	22.13	0.98	5.51	7.48	---	---	---
125-125-200	7.38	132S	✗	✗	NPS 5	8.09	6.89	8.43	M20	11.81	10.79	8.74	14.96	12.60	34.47	26.38	0.98	5.51	8.39	---	---	---
125-125-200	10.06	132M	✗	✗	NPS 5	8.09	6.89	8.43	M20	11.81	11.73	8.74	14.96	12.60	34.47	26.38	0.98	5.51	8.39	---	---	---
125-125-200	14.75	160M	✗	✗	NPS 5	8.09	6.89	8.43	M20	13.78	12.80	10.28	14.96	12.60	39.27	31.18	0.98	5.51	9.69	---	---	---
125-125-200	20.12	160L	-	✗	NPS 5	8.09	6.89	8.43	M20	13.78	12.80	10.28	14.96	12.60	40.69	32.60	0.98	5.51	9.69	---	---	---
125-125-200	24.81	180M	-	-	NPS 5	8.09	6.89	8.43	M20	13.78	14.57	11.22	14.96	12.60	42.07	33.98	0.98	5.51	9.69	---	---	---
125-125-200	29.50	180L	-	-	NPS 5	8.09	6.89	8.43	M20	13.78	14.57	11.22	14.96	12.60	42.07	33.98	0.98	5.51	9.69	---	---	---
125-125-200	40.23	200L	-	-	NPS 5	8.09	6.89	8.43	M20	15.75	16.61	12.83	14.96	12.60	44.11	36.02	0.98	5.51	9.69	---	---	---
125-125-250 ³⁵⁾	5.36	112M	-	-	NPS 5	8.27	7.40	8.62	M20	9.84	9.25	9.06	14.96	12.60	30.39	22.13	0.98	5.51	7.48	---	---	---
125-125-250 ³⁵⁾	7.38	132S	✗	-	NPS 5	8.27	7.40	8.62	M20	11.81	10.79	8.74	14.96	12.60	34.65	26.38	0.98	5.51	8.39	---	---	---
125-125-250 ³⁵⁾	10.06	132M	✗	✗	NPS 5	8.27	7.40	8.62	M20	11.81	11.73	8.74	14.96	12.60	34.65	26.38	0.98	5.51	8.39	---	---	---
125-125-250 ³⁵⁾	14.75	160M	✗	✗	NPS 5	8.27	7.40	8.62	M20	13.78	12.80	10.28	14.96	12.60	39.45	31.18	0.98	5.51	9.69	---	---	---
125-125-250 ³⁵⁾	20.12	160L	✗	✗	NPS 5	8.27	7.40	8.62	M20	13.78	12.80	10.28	14.96	12.60	40.87	32.60	0.98	5.51	9.69	---	---	---
125-125-250 ³⁵⁾	24.81	180M	-	✗	NPS 5	8.27	7.40	8.62	M20	13.78	14.57	11.22	14.96	12.60	42.24	33.98	0.98	5.51	9.69	---	---	---
125-125-250 ³⁵⁾	29.50	180L	-	✗	NPS 5	8.27	7.40	8.62	M20	13.78	14.57	11.22	14.96	12.60	42.24	33.98	0.98	5.51	9.69	---	---	---
125-125-250 ³⁵⁾	40.23	200L	-	-	NPS 5	8.27	7.40	8.62	M20	15.75	16.61	12.83	14.96	12.60	44.29	36.02	0.98	5.51	9.69	---	---	---
125-125-250 ³⁵⁾	49.62	225S	-	-	NPS 5	8.27	7.40	8.62	M20	17.72	18.11	14.65	14.96	12.60	46.54	38.27	0.98	5.51	10.91	---	---	---
125-125-250 ³⁵⁾	60.35	225M	-	-	NPS 5	8.27	7.40	8.62	M20	17.72	18.43	14.65	14.96	12.60	48.43	40.16	0.98	5.51	10.91	---	---	---
150-150-200	4.02	100L	-	-	NPS 6	9.06	7.36	9.45	M20	9.84	8.39	8.50	15.16	12.40	31.89	22.83	0.98	5.51	7.48	---	---	---
150-150-200	5.36	112M	-	-	NPS 6	9.06	7.36	9.45	M20	9.84	9.25	9.06	15.16	12.40	31.18	22.13	0.98	5.51	7.48	---	---	---
150-150-200	7.38	132S	✗	-	NPS 6	9.06	7.36	9.45	M20	11.81	10.79	8.74	15.16	12.40	35.43	26.38	0.98	5.51	8.39	---	---	---
150-150-200	10.06	132M	✗	✗	NPS 6	9.06	7.36	9.45	M20	11.81	11.73	8.74	15.16	12.40	35.43	26.38	0.98	5.51	8.39	---	---	---
150-150-200	14.75	160M	✗	✗	NPS 6	9.06	7.36	9.45	M20	13.78	12.80	10.28	15.16	12.40	40.24	31.18	0.98	5.51	9.69	---	---	---
150-150-200	20.12	160L	✗	✗	NPS 6	9.06	7.36	9.45	M20	13.78	12.80	10.28	15.16	12.40	41.65	32.60	0.98	5.51	9.69	---	---	---
150-150-200	24.81	180M	-	✗	NPS 6	9.06	7.36	9.45	M20	13.78	14.57	11.22	15.16	12.40	43.03	33.98	0.98	5.51	9.69	---	---	---
150-150-200	29.50	180L	-	-	NPS 6	9.06	7.36	9.45	M20	13.78	14.57	11.22	15.16	12.40	43.03	33.98	0.98	5.51	9.69	---	---	---
150-150-200	40.23	200L	-	-	NPS 6	9.06	7.36	9.45	M20	15.75	16.61	12.83	15.16	12.40	45.08	36.02	0.98	5.51	9.69	---	---	---
150-150-200	49.62	225S	-	-	NPS 6	9.06	7.36	9.45	M20	17.72	18.11	14.65	15.16	12.40	47.32	38.27	0.98	5.51	10.91	---	---	---
150-150-250	7.38	132S	-	-	NPS 6	8.74	8.90	10.83	M20	11.81	10.79	8.74	14.57	12.99	35.71	26.97	0.98	5.51	8.98	---	---	---
150-150-250	10.06	132M	✗	-	NPS 6	8.74	8.90	10.83	M20	11.81	11.73	8.74	14.57	12.99	35.71	26.97	0.98	5.51	8.98	---	---	---
150-150-250	14.75	160M	✗	✗	NPS 6	8.74	8.90	10.83	M20	13.78	12.80	10.28	14.57	12.99	40.51	31.77	0.98	5.51	10.28	---	---	---
150-150-250	20.12	160L	✗	✗	NPS 6	8.74	8.90	10.83	M20	13.78	12.80	10.28	14.57	12.99	41.93	33.19	0.98	5.51	10.28	---	---	---

Size	P _N ³⁰⁾	Motor (IEC)	n		DN ³¹⁾	a	≈b ₁	≈b ₂	d ₁	d ₂	d ₃ ³²⁾	p ³²⁾	h ₁	h ₂	≈l ₁ ³³⁾	≈l ₂ ³³⁾	t	≈x ³⁴⁾	w	m ₁	m ₂	o
	1450		1750																			
	[hp]		[rpm]	[inch]																		
150-150-250	24.81	180M	✗	✗	NPS 6	8.74	8.90	10.83	M20	13.78	14.57	11.22	14.57	12.99	43.31	34.57	0.98	5.51	10.28	---	---	---
150-150-250	29.50	180L	✗	✗	NPS 6	8.74	8.90	10.83	M20	13.78	14.57	11.22	14.57	12.99	43.31	34.57	0.98	5.51	10.28	---	---	---
150-150-250	40.23	200L	-	✗	NPS 6	8.74	8.90	10.83	M20	15.75	16.61	12.83	14.57	12.99	45.35	36.61	0.98	5.51	10.28	---	---	---
150-150-250	49.62	225S	-	✗	NPS 6	8.74	8.90	10.83	M20	17.72	18.11	14.65	14.57	12.99	47.60	38.86	0.98	5.51	11.50	---	---	---
150-150-250	60.35	225M	-	-	NPS 6	8.74	8.90	10.83	M20	17.72	18.43	14.65	14.57	12.99	49.49	40.75	0.98	5.51	11.50	---	---	---
200-200-250	10.06	132M	-	-	NPS 8	8.74	9.17	11.93	M20	11.81	11.73	8.74	15.75	15.75	37.20	28.46	0.98	5.51	10.47	---	---	---
200-200-250	14.75	160M	✗	-	NPS 8	8.74	9.17	11.93	M20	13.78	12.80	10.28	15.75	15.75	42.01	33.27	0.98	5.51	11.77	---	---	---
200-200-250	20.12	160L	✗	-	NPS 8	8.74	9.17	11.93	M20	13.78	12.80	10.28	15.75	15.75	43.43	34.69	0.98	5.51	11.77	---	---	---
200-200-250	24.81	180M	✗	✗	NPS 8	8.74	9.17	11.93	M20	13.78	14.57	11.22	15.75	15.75	44.80	36.06	0.98	5.51	11.77	---	---	---
200-200-250	29.50	180L	✗	✗	NPS 8	8.74	9.17	11.93	M20	13.78	14.57	11.22	15.75	15.75	44.80	36.06	0.98	5.51	11.77	---	---	---
200-200-250	40.23	200L	✗	✗	NPS 8	8.74	9.17	11.93	M20	15.75	16.61	12.83	15.75	15.75	46.85	38.11	0.98	5.51	11.77	---	---	---
200-200-250	49.62	225S	✗	✗	NPS 8	8.74	9.17	11.93	M20	17.72	18.11	14.65	15.75	15.75	49.09	40.35	0.98	5.51	12.99	---	---	---
200-200-250	60.35	225M	-	✗	NPS 8	8.74	9.17	11.93	M20	17.72	18.43	14.65	15.75	15.75	50.98	42.24	0.98	5.51	12.99	---	---	---
200-200-315	24.81	180M	-	-	NPS 8	10.04	10.20	12.52	M20	13.78	14.57	11.22	19.29	16.14	45.20	35.16	0.98	5.51	10.87	---	---	---
200-200-315	29.50	180L	✗	-	NPS 8	10.04	10.20	12.52	M20	13.78	14.57	11.22	19.29	16.14	45.20	35.16	0.98	5.51	10.87	---	---	---
200-200-315	40.23	200L	✗	✗	NPS 8	10.04	10.20	12.52	M20	15.75	16.61	12.83	19.29	16.14	47.24	37.20	0.98	5.51	10.87	---	---	---
200-200-315	49.62	225S	✗	✗	NPS 8	10.04	10.20	12.52	M20	17.72	18.11	14.65	19.29	16.14	49.49	39.45	0.98	5.51	12.09	---	---	---
200-200-315	60.35	225M	✗	✗	NPS 8	10.04	10.20	12.52	M20	17.72	18.43	14.65	19.29	16.14	51.38	41.34	0.98	5.51	12.09	---	---	---
200-200-315	73.76	250M	✗	✗	NPS 8	10.04	10.20	12.52	M20	21.65	20.47	17.76	19.29	16.14	54.76	44.72	0.98	5.51	12.56	---	---	---

Connections

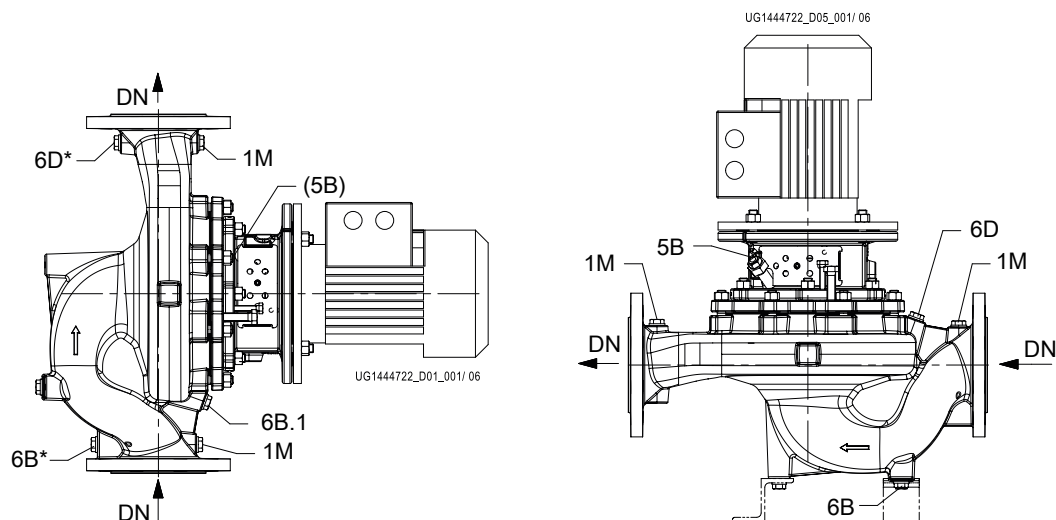


Fig. 10: Connections
 * = optional

Table 27: Connections

Connection	Design	Configuration	Position
1M	Connection for pressure gage	Drilled and closed or pressure sensor	Suction flange and discharge flange
(5B) / 5B	(Vent) / vent	Closed with vent valve	Casing cover
6B / 6B.1	Fluid drain	Drilled and closed	Volute casing
6D	Fluid priming and venting	Drilled and closed	Volute casing

Table 28: Connection

Etaline	1M, 6B / 6B.1, 6D	5B
032-032-160	G 1/4	G 1/4
032-032-200	G 1/4	G 1/4
040-040-160	G 1/4	G 1/4
040-040-250	G 1/4	G 1/4
050-050-160	G 1/4	G 1/4
050-050-250	G 1/4	G 1/4
065-065-160	G 1/4	G 1/4
065-065-250	G 1/4	G 1/4
080-080-160	G 3/8	G 1/4
080-080-200	G 3/8	G 1/4
080-080-250	G 3/8	G 1/4
100-100-125	G 3/8	G 1/4
100-100-160	G 3/8	G 1/4
100-100-200	G 3/8	G 1/4
100-100-250	G 3/8	G 1/4
125-125-160	G 1/2	G 1/4
125-125-200	G 1/2	G 1/4
125-125-250 ³⁶⁾	G 1/2	G 1/4
150-150-200	G 1/2	G 1/4
150-150-250	G 1/2	G 1/4
200-200-250	G 1/2	G 1/4
200-200-315	G 1/2	G 1/4

Flange design

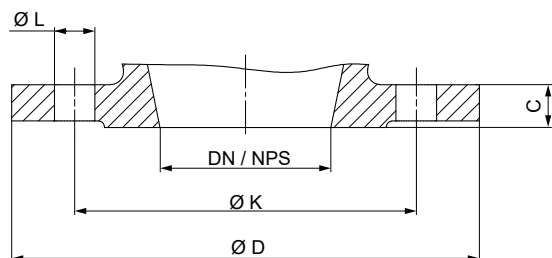


Fig. 11: Flange dimensions

Table 29: Flange dimensions [mm] (SI units)

DN / NPS	Standard					
	EN 1092-2			ASME B 16.1		
	Material					
	G			G		
	PN 16			Class 125		
	Ø K	Ø D	Number of holes L	Ø K	Ø D	Number of holes L
32 / NPS 1 1/4	100	140	4×Ø19	88.9	140	4×Ø15.7
40 / NPS 1 1/2	110	150	4×Ø19	98.6	150	4×Ø15.7
50 / NPS 2	125	165	4×Ø19	120.7	165	4×Ø19.1
65 / NPS 2 1/2	145	185	4×Ø19	139.7	185	4×Ø19.1
80 / NPS 3	160	200	8×Ø19	152.4	200	4×Ø19.1
100 / NPS 4	180	229	8×Ø19	190.5	229	8×Ø19.1
125 / NPS 5 ³⁷⁾	210	254	8×Ø19	215.9	254	8×Ø22.4
150 / NPS 6	240	285	8×Ø23	241.3	285	8×Ø22.4
200 / NPS 8	295	343	12×Ø23	298.5	343	8×Ø22.4

Table 30: Flange dimensions [inch] (imperial units)

DN / NPS	Standard					
	EN 1092-2			ASME B 16.1		
	Material					
	G			G		
	PN 16			Class 125		
	Ø K	Ø D	Number of holes L	Ø K	Ø D	Number of holes L
32 / NPS 1 1/4	3.94	5.51	4×Ø0.75	3.50	5.51	4×Ø 5/8
40 / NPS 1 1/2	4.33	5.91	4×Ø0.75	3.88	5.91	4×Ø 5/8
50 / NPS 2	4.92	6.50	4×Ø0.75	4.75	6.50	4×Ø 3/4
65 / NPS 2 1/2	5.71	7.28	4×Ø0.75	5.50	7.28	4×Ø 3/4
80 / NPS 3	6.30	7.87	8×Ø0.75	6.00	7.87	4×Ø 3/4
100 / NPS 4	7.09	9.02	8×Ø0.75	7.50	9.02	8×Ø 3/4
125 / NPS 5 ³⁷⁾	8.27	10.00	8×Ø0.75	8.50	10.00	8×Ø 7/8
150 / NPS 6	9.45	11.22	8×Ø0.91	9.50	11.22	8×Ø 7/8
200 / NPS 8	11.61	13.50	12×Ø0.91	11.75	13.50	8×Ø 7/8

Table 31: Flange design by materials

Material variant	Standard	Nominal size	Pressure class
GG, GB ³⁷⁾ , GC ³⁷⁾	EN 1092-2	DN 32 - DN 200	PN 16
	Drilled to ASME B16.1	DN 32 - DN 200	Class 125

³⁷⁾ Not available for the US market

Installation types

Horizontal installation

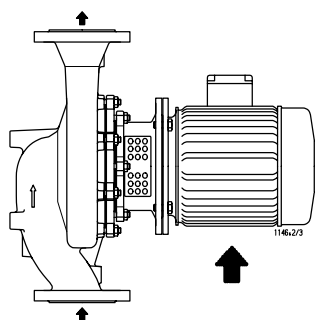


Fig. 12: Horizontal installation, direction of flow from bottom to top

i On pump sets with horizontal motor axis, support motors of size 180 (24.81 hp) and above without transmitting any stresses or strains. Use the foot fastening holes at the motor housing for this purpose.

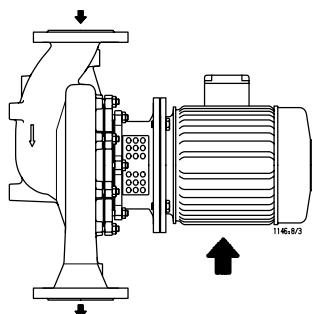


Fig. 13: Horizontal installation, direction of flow from top to bottom

i Turn the volute casing and/or back pull-out unit by 180° so that the terminal box remains in its current position on top. On pump sets with horizontal motor axis, support motors of size 180 (24.81 hp) and above without transmitting any stresses or strains. Use the foot fastening holes at the motor housing for this purpose.

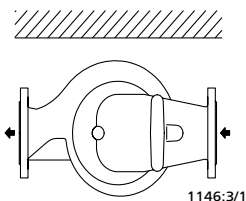


Fig. 14: Horizontal installation (for example under the ceiling)

i Turn the volute casing and/or back pull-out unit by 90° so that the terminal box remains in its current position on top.

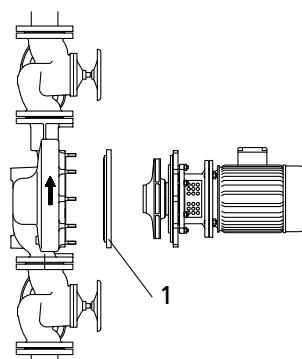


Fig. 15: Horizontal installation with blind flange (1 = blind flange, accessory)

i If the pump needs to be serviced, shut the pump chamber off with a blind flange. The pump installation will remain functional.

Vertical installation

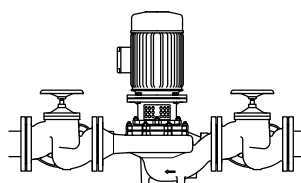


Fig. 16: Vertical installation / mounted without pump foot, sizes 032-032-160 to 100-100-125

i Pumps up to size 100-100-125 can be installed directly in the piping without requiring any additional supports. Always anchor the pipes in close proximity to the pump.

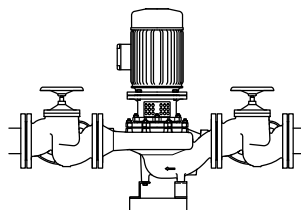


Fig. 17: Vertical installation / mounted on three angle feet (steel 37, accessory), sizes 032-032-160 to 100-100-125

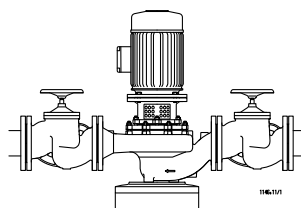


Fig. 18: Vertical installation / mounted on pump foot (gray cast iron, accessory), sizes 100-100-160 to 200-200-315

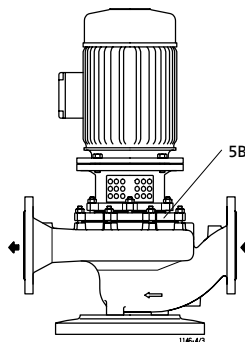


Fig. 19: Vertical installation

i Provide a vent valve to prevent dry running of the mechanical seal. Pumps which have been ordered for vertical installation are supplied with a vent valve. For vertical installation with the motor on top, use connection 5B for venting.

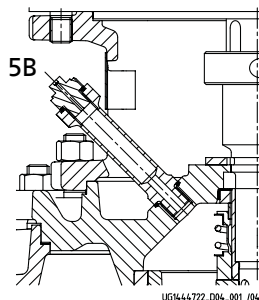


Fig. 20: Vent, mechanical seal chamber

i Use vent valve 5B for venting the mechanical seal chamber.

Accessories

Pump accessories

Table 32: Pump accessories (SI units)

Item	Description	Connection	Mat. No.	[kg]
-	Pump foot	Etaline 032-032-160 to 100-100-125 Three angle feet with bolts	47077960	1.5
-		Etaline 100-100-160 to 200-200-315 One pump foot with bolt	01614068	12.4
-	Vent valve 5B ³⁸⁾ For vertical installation	-	-	-
	Blind flange with sealing element	Etaline 032/040/050/065/080/100-160, 100-125	01621012	6.7
		Etaline 032/080/100/125/150-200, 125-160	01621013	12.4
		Etaline 040/050/065/080/100/125 ³⁹⁾ /150/200-250	01621014	14.7
		Etaline 200-315	01621015	22.2

Table 33: Pump accessories (imperial units)

Item	Description	Connection	Mat. No.	[lb]
-	Pump foot	Etaline 032-032-160 to 100-100-125 Three angle feet with bolts	47077960	3.31
-		Etaline 100-100-160 to 200-200-315 One pump foot with bolt	01614068	27.34
-	Vent valve 5B ³⁸⁾ For vertical installation	-	-	-
	Blind flange with sealing element	Etaline 032/040/050/065/080/100-160, 100-125	01621012	14.77
		Etaline 032/080/100/125/150-200, 125-160	01621013	27.34
		Etaline 040/050/065/080/100/125 ³⁹⁾ /150/200-250	01621014	32.41
		Etaline 200-315	01621015	48.94

38 Can only be processed via KSB EasySelect/KSBase (configurable range)

39 Not available for the US market

General assembly drawings

General assembly drawing with list of components

Table 34: This view applies to the following pump sizes with bolted casing cover:

032-032-200	040-040-250	050-050-250	065-065-250	080-080-200	100-100-250	125-125-250 ⁴⁰⁾	150-150-250	200-200-250
				080-080-250				200-200-315

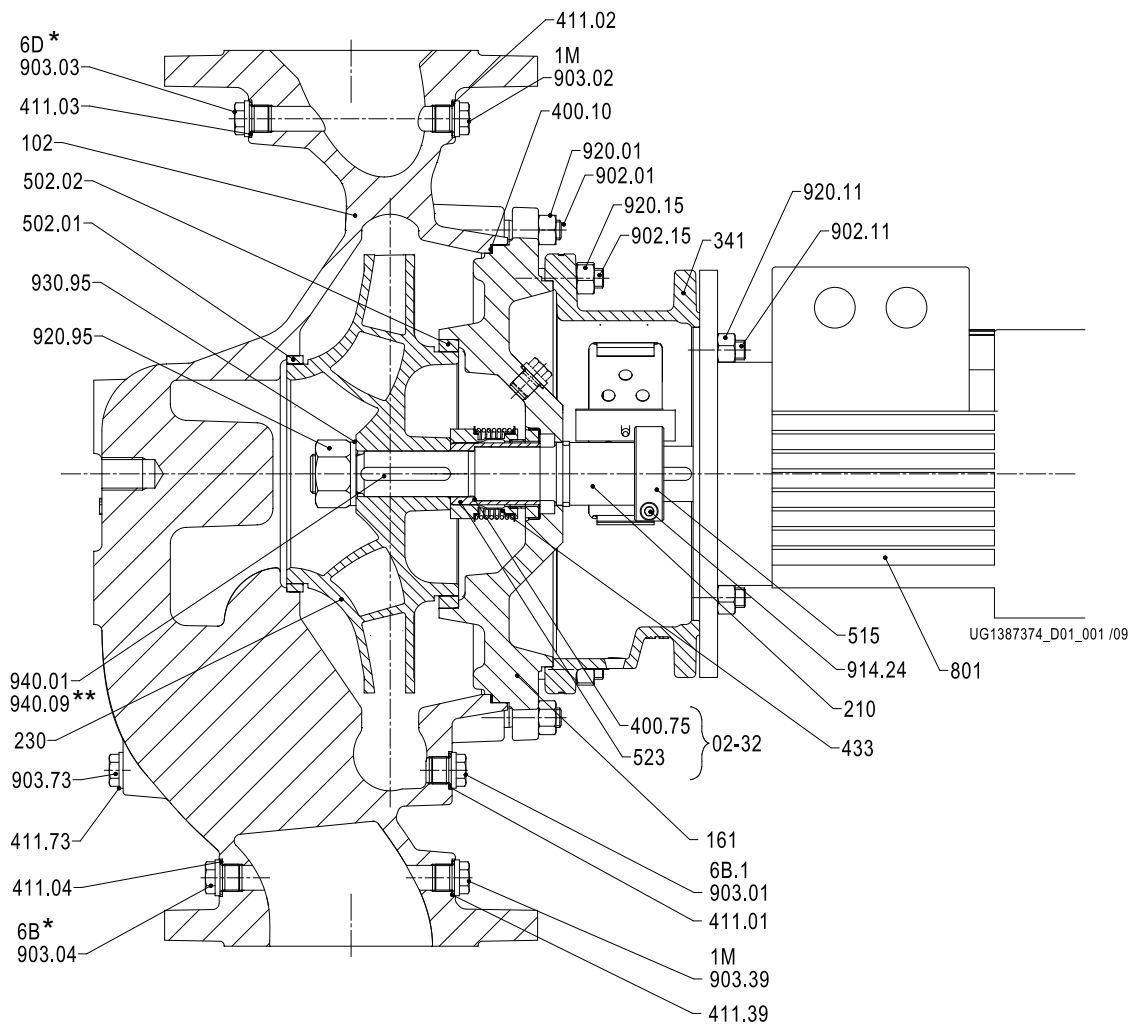


Fig. 21: General assembly drawing

* = optional

** = for WS 55 only

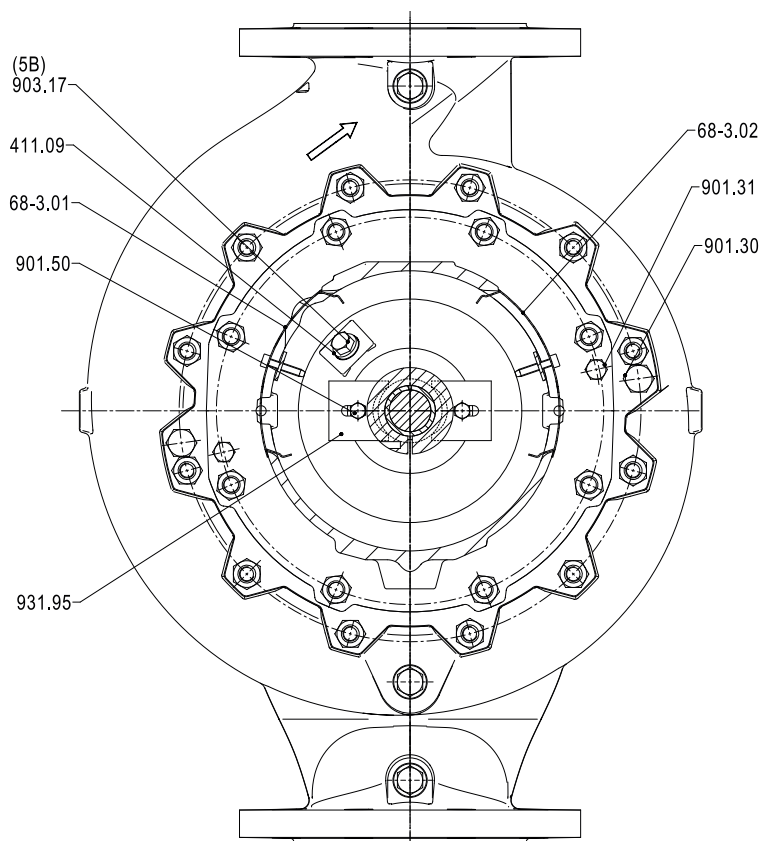


Fig. 22: General assembly drawing: side view (pump in operation)

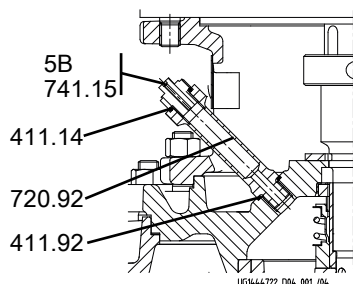


Fig. 23: Vent valve 5B for vertical installation

Table 35: This view applies to the following pump sizes with clamped casing cover:

032-032-160	040-040-160	050-050-160	065-065-160	080-080-160	100-100-125	125-125-160	150-150-200
					100-100-160	125-125-200	
					100-100-200		

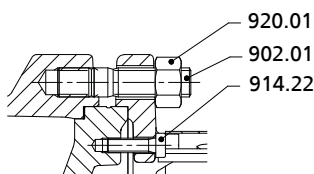


Fig. 24: Fastening elements for the clamped casing cover

Table 36: List of components

Part No.	Description	Part No.	Description
102	Volute casing	720.92	Fitting
161	Casing cover	741.15	Vent valve
210	Shaft	801	Flanged motor
230	Impeller	901.30/.31/.50	Hexagon head bolt
341	Drive lantern	902.01/.11/.15	Stud
400.10/.75	Gasket	903.01/.02/.03/.04/.17/.39/.73	Screw plug

Part No.	Description	Part No.	Description
411.01/.02/.03/.04/.09/.14/.39/.73/.92	Joint ring	914.22/.24	Hexagon socket head cap screw
433	Mechanical seal	920.01/.11/.15/.95	Nut
502.01/.02 ⁴¹⁾	Casing wear ring	930.95	Safety device
515	Locking ring	931.95	Lock washer
523	Shaft sleeve	940.01/.09	Key
68-3.01/.02	Cover plate		

Table 37: Connections

Part No.	Description	Part No.	Description
1M	Connection for pressure gage	6B / 6B.1	Fluid drain
(5B) / 5B ⁴²⁾	(Vent) / vent	6D	Fluid priming and venting

41 Not with size 32-32-160

42 For vertical installation only

Glossary

ACS

French drinking water regulations (ACS = Attestation de Conformité Sanitaire)

Back pull-out design

The complete back pull-out unit can be pulled out without having to remove the pump casing from the piping.

Close-coupled design

Motor directly fitted to the pump via a flange or a drive lantern

IE3

Efficiency class to IEC 60034-30: 3 = Premium Efficiency (IE = International Efficiency)

In-line design

A pump whose suction and discharge nozzle are arranged opposite each other and have the same nominal diameter.

Mat. No.

This identification number is composed of an 8-digit numerical code that uniquely identifies a product entered in SAP.

Mech. seal

Mechanical seal

SU

Shaft unit

UBA

German drinking water regulations to German Environment Agency

WRAS

Approved by all water suppliers in the UK (WRAS = Water regulations advisory scheme)



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