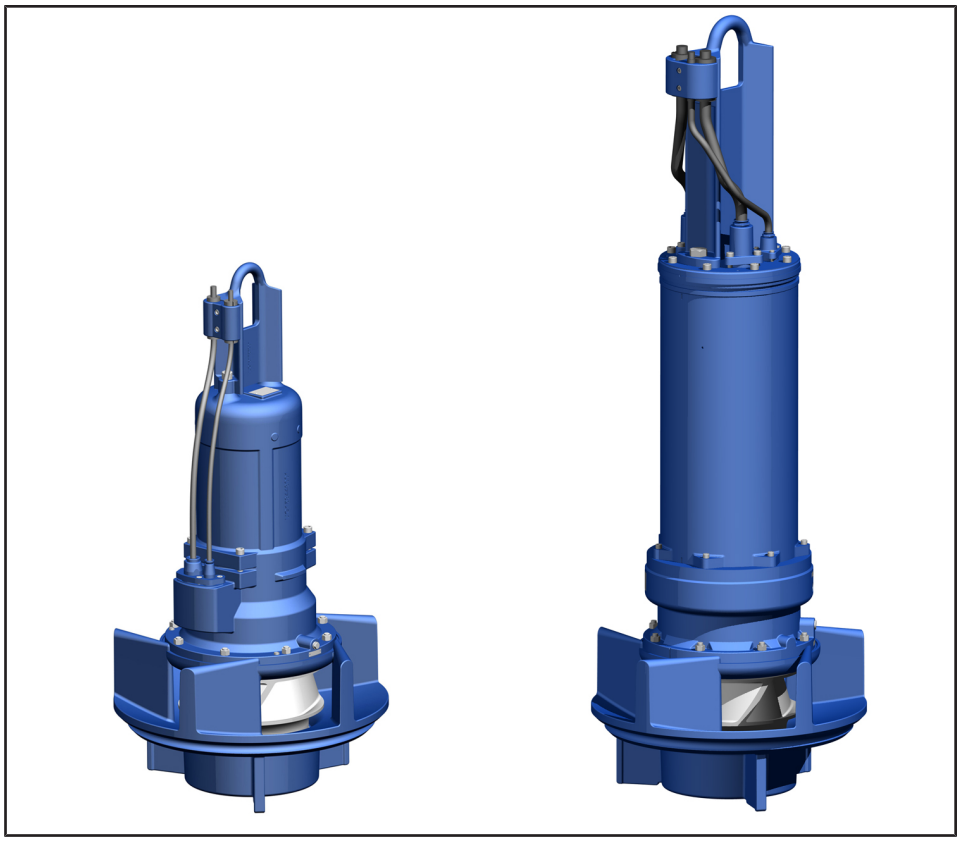
Submersible Pump in Discharge Tube

Amacan K

60 Hz

Type Series Booklet



KSB

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Type Series Booklet Amacan K

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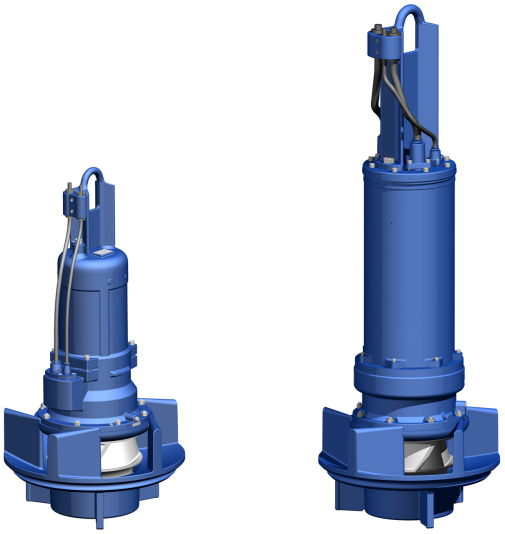
Water Applications: Water Transport

Submersible pumps in discharge tubes

Amacan K



Fluids handled

- Waste water
- Sludge
- Surface water
- Stormwater
- Gray water

Main applications

- Irrigation pumping stations
- Drainage pumping stations
- Stormwater pumping stations
- Water pollution control
- Flood control

Operating data

Operating properties

Characteristic		Value
Flow rate	Q [US.gpm]	≤ 22000
	Q [m³/h]	≤ 5000
Head	H [ft]	≤ 80
	H [m]	≤ 24,4
Motor rating	P_2 [hp]	≤ 350
	P_2 [kW]	≤ 261
Fluid temperature	T [°F]	≤ 104
	T [°C]	≤ +40

Designation

Example: Amacan K 800-400 / 50 8 UN G - IE3

Key to the designation

Code	Description	
Amacan	Type series	
K	Impeller type	
	K	Channel impeller
800	Nominal diameter of the discharge tube [mm]	
400	Nominal impeller diameter [mm]	
50	Motor size	
8	Number of motor poles	
UN	Motor version	
	UE/UN	Without explosion protection
	XE/XN	Explosion-proof to NEC 500
G	Material variant	
	G	Impeller made of gray cast iron, standard design
	G1	Like G, with impeller made of duplex stainless steel
IE3	Motor efficiency classification[1]	
	-[2]	No efficiency classification
	IE3	Premium Efficiency

Design details

Design

- Fully floodable submersible pump in discharge tube (submersible motor pump)
- Not self-priming
- Close-coupled design
- Single-stage
- Vertical installation

Installation types

- Application-oriented installation types (⇨ Page 39)

Drive

- Three-phase asynchronous squirrel-cage motor
- Version with explosion protection to NEC 500: Explosion-proof for Class I, Division 1, Groups C and D, T3, hazardous (classified) locations.

Shaft seal

- Two bi-directional mechanical seals in tandem arrangement, with liquid reservoir

Impeller type

- Application-oriented impeller type

Bearings

Motor version UE, XE:

Drive end:

1579.56/05-EN-US

1) IEC 60034-30 standard not binding for submersible motor pumps. Efficiencies calculated/determined according to the measurement method specified in IEC 60034-2. The marking is used for submersible motors that achieve efficiency levels similar to those of standardized motors acc. to the IEC 60034-30 standard.
2) Blank

- Grease-packed bearings sealed for life
- Maintenance-free

Pump end:

- Grease-packed bearings sealed for life
- Maintenance-free

Motor version UN, XN:

Drive end:

- Grease-packed bearings sealed for life
- Maintenance-free

Pump end:

- Can be re-lubricated

Materials

Other designs on request

Overview of materials depending on material variant

Part No.	Description	Material variant	
		G	G1
101	Pump casing	A 48 Class 35 B	
163	Discharge cover	A 48 Class 35 B	
230	Impeller	A 48 Class 35 B	A 890 CD 4 MCu
350 / 330	Bearing housing / bearing bracket	A 48 Class 35 B	
412	O-ring	NBR[3] (Viton FPM)[4]	
433	Mechanical seal (pump end)	SiC/SiC (bellows NBR[3], Viton - FPM)[4])	
	Mechanical seal (drive end)	Carbon / SiC (bellows NBR[3], Viton - FPM)[4])	
502	Casing wear ring	A 48 Class 35 B / AISI 329[5]	
571	Bail	A536 70-50-05 / A 536: 60-40-18 /A 284 B[6]	
811	Motor housing	A 48 Class 35 B	
812	Motor housing cover	A 48 Class 35 B[7]	
818	Rotor	A 276 Type 420 / A 576 Gr. 1045 (⇨ Page 7)	
834	Cable gland	-	
	Cable gland housing	A 48 Class 35 B	
Various	Screws/bolts	Stainless steel	

Comparison of materials

EN	ASTM
EN-GJL-250 (JL 1040)	A 48 Class 35 B
1.4517	A 890 CD 4 MCu
1.4021	A 276 Type 420
C 45 + N	A 576 Gr. 1045

EN	ASTM
VG 434	AISI 329
NBR	NBR
FPM	FKM
EN-GJS-400-15	A 536: 60-40-18
EN-GJS-500-7	A 536: 70-50-05
S235JR	A 284 B

Gray cast iron EN-GJL-250 (lamellar graphite cast iron):
Lamellar graphite cast iron to EN 1561 is the most widely used cast material for handling municipal sewage, waste water and sludges as well as stormwater and surface water. It is suitable for neutral fluids which are only slightly aggressive and cause little wear. The pH should be ≥ 6.5, the sand content ≤ 0.5 g/l.

Duplex stainless steel (1.4517 or technically equivalent material)

This type of cast steel is resistant to cavitation, has excellent strength values and is used for high circumferential speeds. An excellent resistance to pitting corrosion makes ferritic-austenitic stainless steel a popular choice for pumping acidic waste water with a high chloride content as well as seawater and brackish water. Thanks to its good chemical resistance, e.g. against waste water containing phosphorus and sulphuric acid, this material is used in a wide range of applications in the chemical industry and process engineering. Pumps made of duplex stainless steel have a very long service life, even when handling brines, chemical waste water (pH 1 - 12), gray water and landfill leachate.

Coating and preservation

Paint

- **Surface treatment:** SA 2 1/2 (SIS 055900) AN 1865
- **Primer:** primer coat on unfinished casting
- **Top coat:** environmentally friendly KSB standard coating (RAL 5002)

Special coating

- Available on request (extra charge and a longer delivery period apply).

3) Nitrile rubber (Perbunan)
4) FPM fluorocarbon rubber variant available as an option against a surcharge
5) This option is available against a surcharge.
6) A536 70-50-05 for motors 226, 306,118 to 228; A536 60-40-18 for motors 316 to 806, 308 to 1308, 4010 to 9010; A284B for motors 1508 to 3508, 11010 to 15010
7) Not available for all sizes

Product benefits

- Efficient use of power thanks to three-phase motor and optimum motor cooling by fluid handled.
- The pump's own weight ensures self-centering seating in the discharge tube, and an O-ring seals it; quick to install or remove without additional anchoring or anti-rotation device.
- Slim motor minimizes discharge tube flow losses.
- High reliability thanks to bearing temperature monitoring, vibration sensor, thermal motor protection, leakage sensors in the motor space and connection space as well as leakage monitoring of the mechanical seal system.
- Low-vibration hydraulic system; inlet ribs and optimized bellmouth for vortex-free inflow.
- Absolutely water-tight resin-sealed cable entries prevent any water from entering the motor – even in the event of a damaged connection cable.

Acceptance tests and warranty

Functional test

- Every pump undergoes functional testing to KSB standard ZN 56535.
- Operating data is guaranteed to DIN EN ISO 9906/2/2B or Hydraulic Institute Level B.

Acceptance tests

- Acceptance testing to ISO/DIN or comparable standards is available against a surcharge.

Warranty

- Quality is assured by means of an audited and certified quality assurance system to DIN EN ISO 9001.

Selection information

Information for pump selection

The guaranteed point of submersible pumps in discharge tubes is measured at a head of 1.65 ft [0.5 m] above the motor. The documented characteristic curves refer to this data. This must be taken into account when calculating system losses. The indicated heads and performance data apply to pumped fluids with a density ρ = 7.48 lbs/ft³ [1 kg/dm³] and a kinematic viscosity v of up to 20 mm²/s.

- Adjust the power input to the density of the fluid handled:
  P_2 (required) = ρ [kg/dm³] (fluid handled) × P_2 (documented)
- Select the operating point with the largest power input within an operating range. Select a motor size providing a power reserve to compensate for the tolerances in the system characteristic / pump characteristic.

Recommended motor power reserve[8)]

P_2		Reserve	
[hp]	[kW]	Mains operation	With frequency inverter
≤ 40	≤ 30	10 %	15 %
> 40	> 30	5 %	10 %

Determine the minimum water level t_{1min} (diagram in general arrangement drawing):
The minimum water level t_{1min} is the water level required in the pump's suction chamber to ensure the following:

- The hydraulic system (impeller) is sufficiently submerged (shown in diagram depending on pump size).
- The pump does not draw in air-entraining vortices (shown in diagram depending on flow rate).
- The hydraulic system is free from cavitation (check against the $NPSH_{required}$ value in the technical literature. The following conditions must be met:
  - $NPSH_{available}$ > $NPSH_{required}$ + safety margin
  - $NPSH_{available}$ = 10.0 + (t_1 - t_2)
  - Safety margin:
    up to Q_{opt} ⇒ 1.65 ft [0.5 m]
    larger than Q_{opt} ⇒ 3.3 ft [1.0 m]

Head (H)

The total pump head is composed as follows:
$H = H_{geo} + \Delta H_V$

H_{geo} (static head)

- Without discharge elbow – Difference between suction-side water level and overflow edge
- With discharge elbow – Difference between suction-side and discharge-side water level

ΔH_V (losses in the system)

- Starting 1.65 ft [0.5 m] downstream of the pump: e.g. pipe friction, elbow, swing check valve, etc.

Inlet losses, riser and elbow losses

Losses are caused by the inlet, riser and elbow (and/or free discharge).

- Losses in the riser up to the indicated reference level (1.65 ft [0.5 m] above the motor) are taken into account in the documented characteristic curves.
- Inlet losses and elbow losses are system losses. These losses must be taken into account for selection.
- For information on structural requirements, pump installation and pump sump design please refer to the KSB know-how brochure "Planning Information: Amacan Submersible Pumps in Discharge Tubes" 0118.55.

8) If larger power reserves are stipulated by local regulations, these larger reserves must be provided.

Overview of product features / selection tables

Overview of product features

Overview of product features

Feature	Motor version			
	UE/XE		UN/XN	
Motor size				
6-pole	22 6, 30 6	31 6 to 55 6	60 6	80 6
8-pole	11 8 to 22 8	30 8 to 45 8	50 8	75 8 to 350 8
10-pole	-	-	-	40 10 to 150 10
Material				
Shaft	A 276 Type 420 (1.4021)			
Shaft protecting sleeve	-		A 276 Type 420 (1.4021)	
Storage	Grease-packed rolling element bearings sealed for life		Pump end: re-greasable rolling element bearing Drive end: grease-packed rolling element bearing sealed for life	
Explosion protection				
Motor version UE, UN	Not explosion-proof			
Motor version XE, XN	CSA or FM APPROVED Explosion-proof Class I, Division 1, Groups C & D, T3			
Motor				
Starting method	DOL or star-delta starting			
Electrical voltage	460 V[9)]			
Cooling	Cooled by surrounding fluid			
Maximum immersion depth	100 ft [30 m] max.			
Power cable				
Type	See the "Overview of power cables" table			
Length	33 ft [10 m][10)]			
Cable entry	Absolutely watertight			
Sealing elements				
Elastomer seals	Nitrile butadiene rubber NBR[11)]			
Shaft seal	Bellows-type mechanical seal[12)]			
Monitoring equipment				
Winding temperature, motor version UE, UN	Temperature switch (bimetal) in the winding			
Winding temperature, motor version XE, XN	Temperature switches (bimetal) in the winding, plus PTC thermistors for explosion protection			
Bearing temperature	-	-[13)]	Pt100 resistance thermometer on pump end[14)]	
Motor leakage	Electrode monitoring the winding space for leakage		Electrode monitoring the winding space and connection space for leakage	
Mechanical seal leakage	-		Float switch in leakage area	
Vibration sensor	-		-[15)]	
Coating	Environmentally friendly KSB standard coating, color RAL 5002[16)]			
Installation	(⇨ Page 39)			
Maximum fluid temperature	104 °F [40 °C]			
Tests/inspections				
Hydraulic system	KSB standard (ZN 56525)[17)]			
General	KSB standard (ZN 56525)			

9) Optional: 230 V, 380 V, 575 V
10) Optional: up to 165 ft [50 m]
11) Optional: Viton = fluorocarbon rubber FPM
12) Optional: mechanical seal with covered spring
13) Optional: Pt100 resistance thermometer on pump end
14) Optional: Pt100 resistance thermometer on motor end
15) Optional: internal vibration sensor
16) Optional: 250 µm
17) Optionally to ISO 9906/1/2/A

Overview of power cables

Feature	S1BN8-F rubber-sheathed cable	S07RC4N8-F rubber-sheathed cable
Type	Standard	Optional
Rated voltage	1000 V	750 V
EMC screening	-	✓
Insulation material	EPR[18)]	EPR[18)]
Max. continuous temperature of insulation	194 °F [90 °C]	194 °F [90 °C]
For permanent immersion in waste water to DIN VDE 0282-16/HD22.16	✓	✓

Impeller

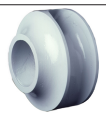
	Closed multi-channel impeller (impeller type K)

Table of fluids handled

The table below for your guidance is based on KSB's long-standing experience. The data are standard values and are not to be considered as generally binding recommendations. More detailed advice is available from KSB. Make use of our laboratory's expertise when selecting materials.

Fluid handled[19)] (fluids not containing stringy substances)	Information, recommendations
Gray water	Free passage > any solids contained, possibly pre-cleaned via a screen or weir
River water	
Stormwater	
Waste water	Pre-cleaned via a screen or weir
Activated sludge	Pumpable up to a dry substance content of: 3 %
Industrial waste water containing	
- Paint suspensions	Solvent-free, observe the operator's instructions.
- Lacquer/paint/varnish suspensions	Solvent-free, contact KSB to handle silicone-free fluids.
- Fibers/pulp	Fluids containing short fibers, no stringy material
- Chips/swarf	Material variant G1, special mechanical seal, solids content < 5 g/l
- Abrasive substances	
Mildly acidic industrial waste water	pH value ≥ 6.0: material variant G1 and special coating pH value < 6.0: contact KSB (for material variant C)
Neutral non-corrosive waste water	
- Ammonium hydroxide	
- Ammonium hydroxide 5 % NH_4OH	
- Urea 25 % NH_2-CO	
- Potassium hydroxide 10 % KOH	
- Calcium hydroxide 5 % $Ca(OH)_2$	
- Sodium hydroxide 5 % NaOH	
- Sodium carbonate 30 % Na_2CO_3	
Neutral, non-corrosive waste water containing	
- Aliphatic hydrocarbons, e.g. oils, petrol, butane, methane	
- Aromatic hydrocarbons, e.g. benzene, styrene	FPM (Viton) O-rings; for high concentrations contact KSB.
- Chlorinated hydrocarbons, e.g. tetrachloroethylene, ethylene chloride, chloroform, methylene chloride	

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18) EPR = ethylene propylene rubber
19) Fluids to be pumped which are not listed in this table require higher-grade materials. Contact KSB.

Motor sizes per pump

Overview of motor sizes per pump

Size	Motor																																											
	6-pole																			8-pole																			10-pole					
	22 6.E	30 6.E	31 6.E	37 6.E	45 6.E	55 6.E	60 6.N	80 6.N	100 6.N	120 6.N	140 6.N	165 6.N	190 6.N	225 6.N	260 6.N	320 6.N	360 6.N	400 6.N	440 6.N	11 8.E	15 8.E	18 8.E	22 8.E	30 8.E	37 8.E	45 8.E	50 8.N	65 8.N	75 8.N	90 8.N	110 8.N	130 8.N	150 8.N	185 8.N	220 8.N	260 8.N	300 8.N	350 8.N	40 10.N	60 10.N	75 10.N	90 10.N	110 10.N	150 10.N
700-324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
700-330	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
700-371	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800-324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800-330	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800-370	1	1	-	1	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800-371	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800-400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800-401	-	-	-	1	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000-420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1000-500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	-	-	-	-	2	2	2	-	-	-
1200-630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	-	2	2	2	2	2

1	General assembly drawing Amacan K, motor version UE, XE
2	General assembly drawing Amacan K, motor version UN, XN

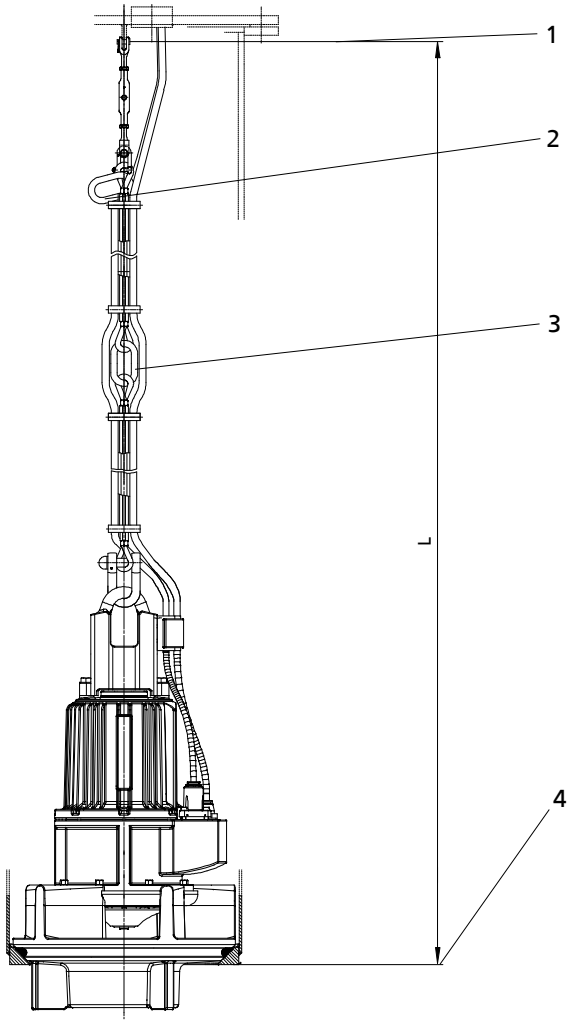
Related documents

- General Arrangement Drawings 1579.396
- Motor Data Booklet 1579.536
- Planning Information 0118.55

Specifications required for inquiries/orders

- Designation of the pump (⇨ Page 4)
- Flow rate Q, head H_{total}
- Type of fluid handled and fluid temperature
- Voltage, frequency, starting method, cable length
- Quantity and language of operating manuals
- Required accessories
  - For discharge tubes indicate all required elevations and the type of installation.
  - For flow-straightening vanes indicate the type of installation and design (with or without suction umbrella).
  - For a support rope indicate dimension "L", the number of additional lifting rings (depending on the lifting height of the lifting equipment) as well as the elevations and type of installation.

Always define dimension "L" when ordering a support rope to allow the correct length to be determined. The lifting height of the crane must be taken into account when ordering a support rope. This determines the number of lifting rings required for installing the pump set in or removing it from the discharge tube.



1	Suspension arrangement attached to cover (or cross beam for installation type BU)
2	Lifting ring (standard, included in the scope of supply)
3	Optional (intermediate) lifting ring
4	Lower edge of discharge tube

The support rope is an accessory and can be supplied with additional lifting rings and a support spacer as an option. The standard design is supplied without intermediate lifting ring. (⇨ Page 40)

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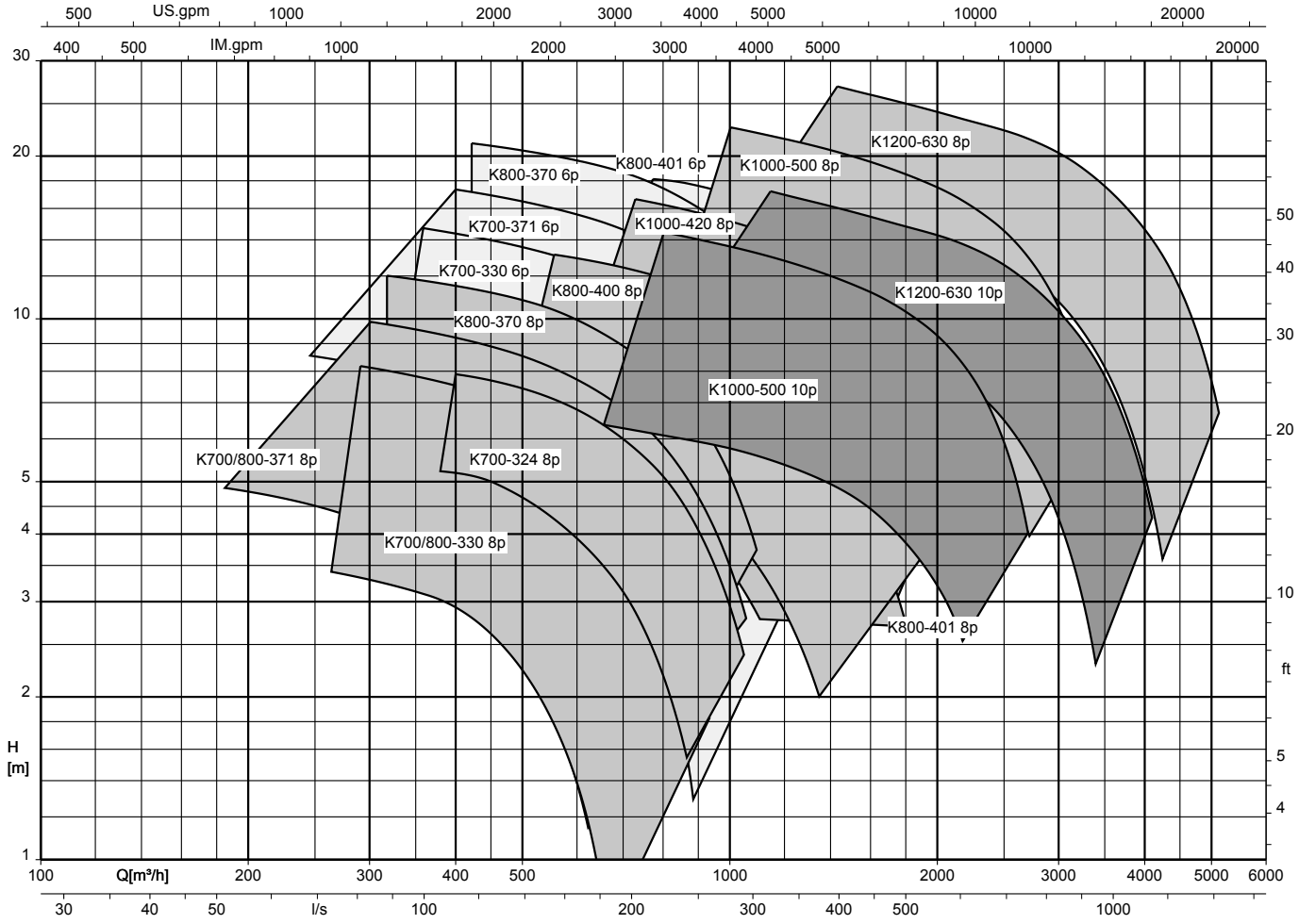
Selection chart

Amacan K, n = 1160 / 875 / 700 rpm

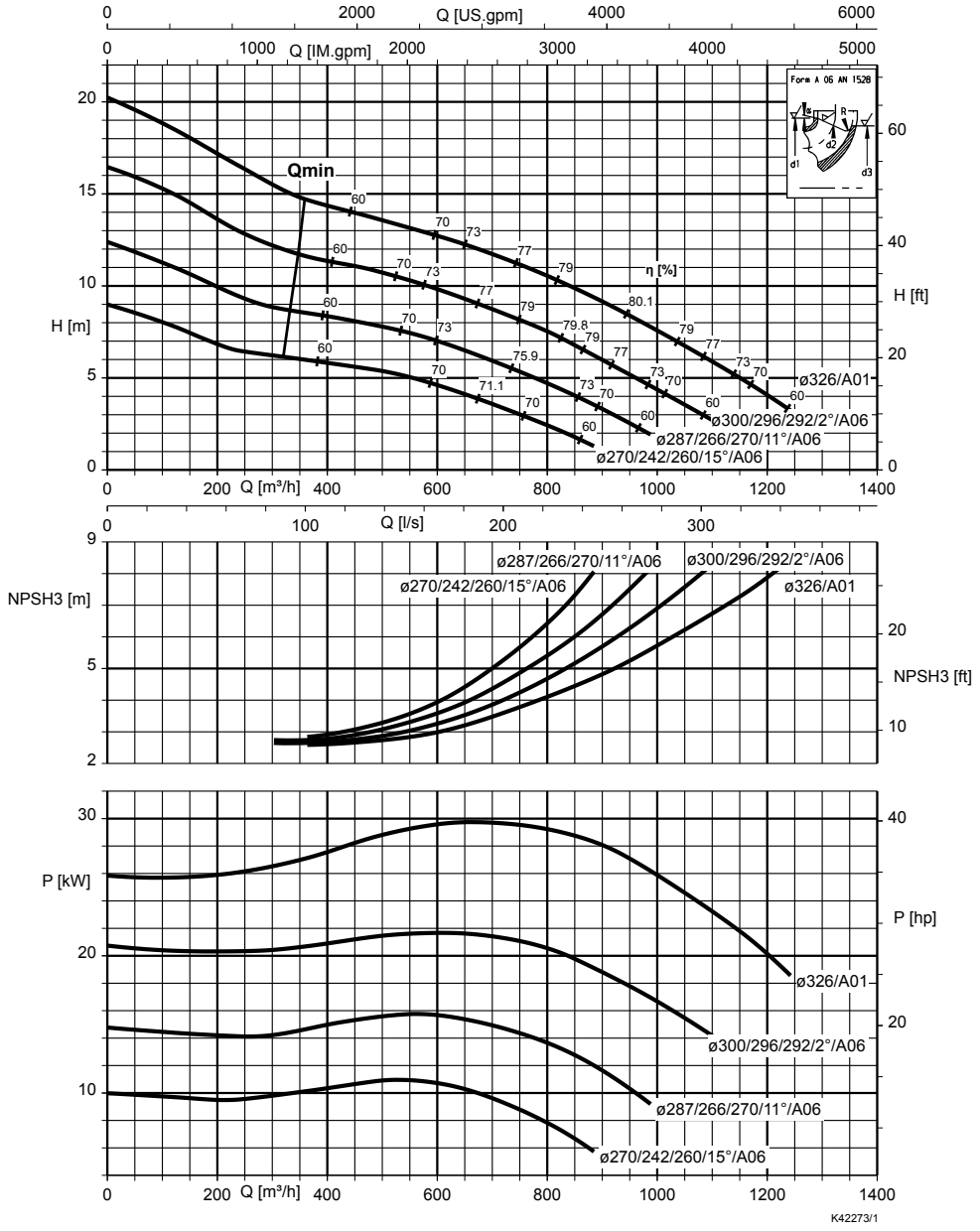


Characteristic curves

n = 1160 rpm

Amacan K 700-330/800-330, n = 1160 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 2 $^{3}/_{4}$″ [70 mm]

Rated power P_2 and mass moment of inertia J[20)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
700-330	22 6 UE/XE	30,0	22,0	0,54
700-330	30 6 UE/XE	40,0	30,0	0,57
800-330	31 6 UE/XE - IE3	25,0	18,5	0,82

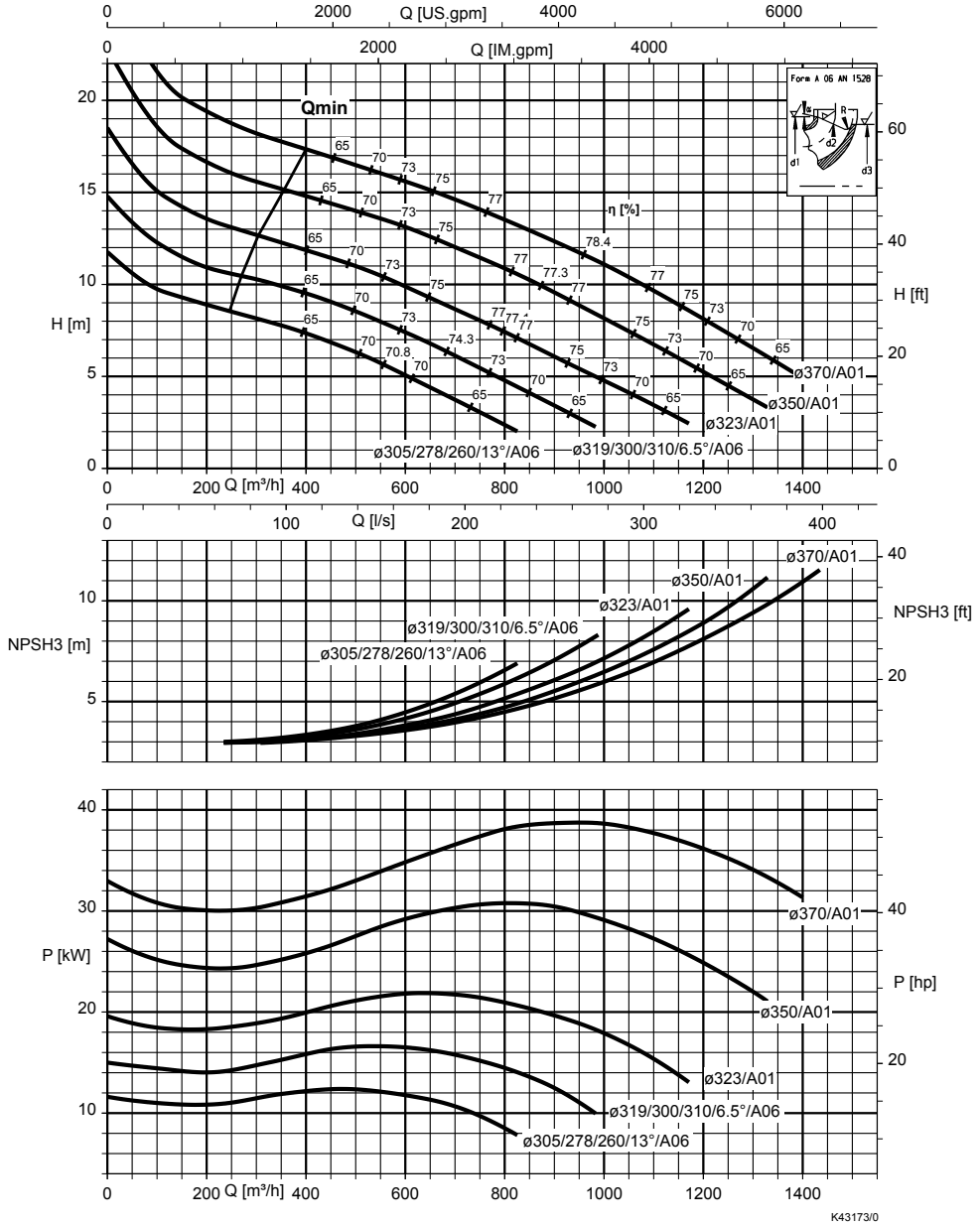
Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
800-330	37 6 UE/XE	50,0	37,0	0,82
800-330	45 6 UE/XE - IE3	40,0	30,0	0,90
800-330	55 6 UE/XE - IE3	50,0	37,0	1,00

20) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

1579.56/05-EN-US

Amacan K 700-371/800-371, n = 1160 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 4 $^{1}/_{8}$″ [105 mm]

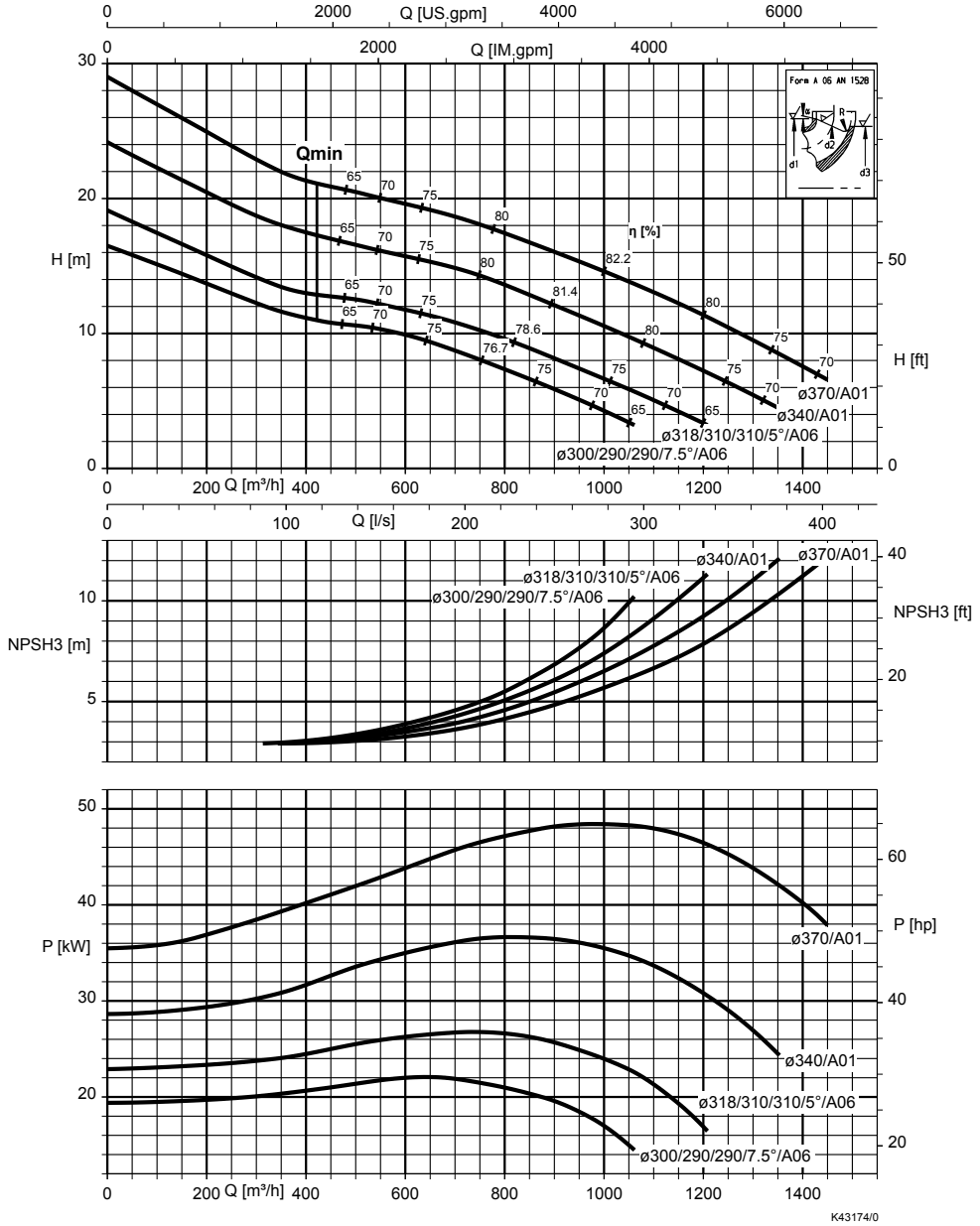
Rated power P_2 and mass moment of inertia J[21)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
700-371	22 6 UE/XE	30,0	22,0	0,74
700-371	30 6 UE/XE	40,0	30,0	0,77
800-371	31 6 UE/XE - IE3	25,0	18,5	1,02
800-371	37 6 UE/XE	50,0	37,0	1,02
800-371	37 6 UE/XE - IE3	30,0	22,0	1,02
800-371	45 6 UE/XE	60,0	45,0	1,10
800-371	45 6 UE/XE - IE3	40,0	30,0	1,10
800-371	55 6 UE/XE - IE3	50,0	37,0	1,20

21) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

Amacan K 800-370, n = 1160 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 3 $^{3}/_{8}$" [85 mm]

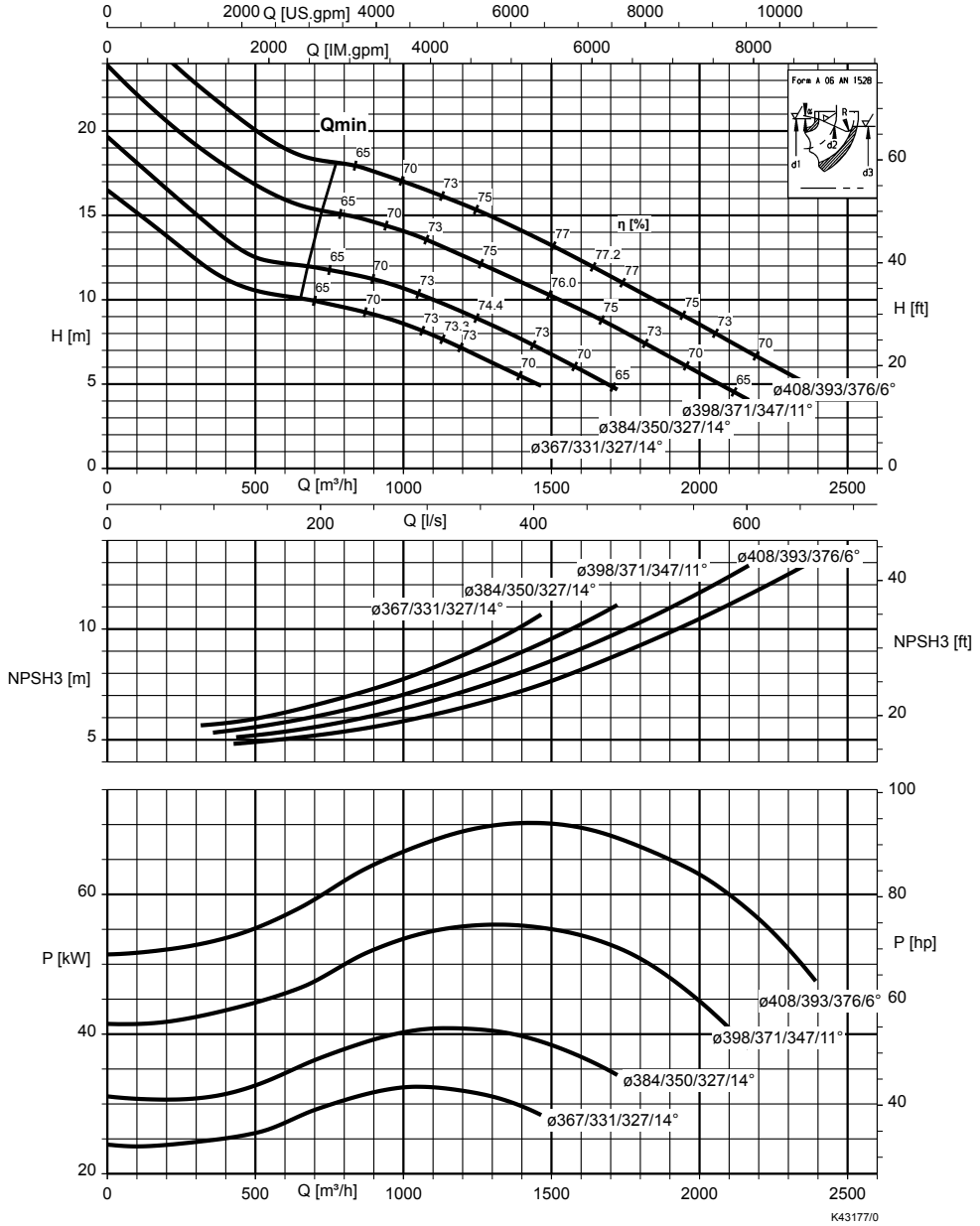
Rated power P_2 and mass moment of inertia J[22)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
800-370	22 6 UE/XE	30,0	22,0	0,69
800-370	30 6 UE/XE	40,0	30,0	0,72
800-370	37 6 UE/XE	50,0	37,0	0,97
800-370	37 6 UE/XE - IE3	30,0	22,0	0,97
800-370	45 6 UE/XE	60,0	45,0	1,05
800-370	45 6 UE/XE - IE3	40,0	30,0	1,05
800-370	55 6 UE/XE	74,0	55,0	1,15
800-370	55 6 UE/XE - IE3	50,0	37,0	1,15
800-370	80 6 UN/XN - IE3	60,0	45,0	1,30

22) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

Amacan K 800-401, n = 1160 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 5 $^{5}/_{16}$" [135 mm]

Rated power P_2 and mass moment of inertia J[23)]

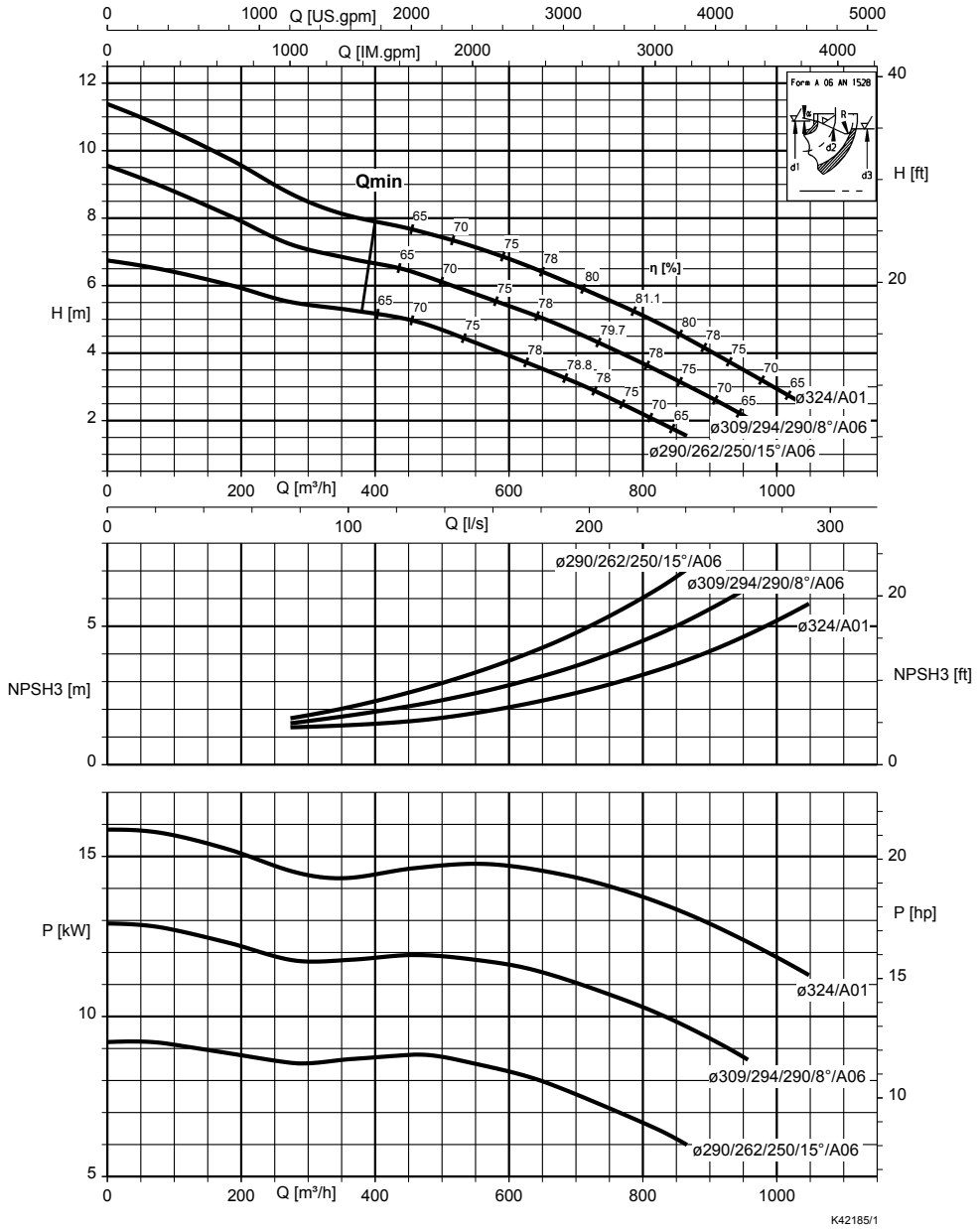
Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
800-401	37 6 UE/XE	50,0	37,0	1,22
800-401	45 6 UE/XE	60,0	45,0	1,30
800-401	55 6 UE/XE	74,0	55,0	1,40
800-401	60 6 UN/XN	80,0	60,0	1,41
800-401	60 6 UN/XN - IE3	50,0	37,0	1,41
800-401	80 6 UN/XN	107,0	80,0	1,55
800-401	80 6 UN/XN - IE3	60,0	45,0	1,55

23) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

n = 875 rpm

Amacan K 700-324/800-324, n = 875 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 2 $^{3}/_{4}$" [70 mm]

Rated power P_2 and mass moment of inertia J[24)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
700-324	11 8 UE/XE	15,0	11,0	0,64
700-324	15 8 UE/XE	20,0	15,0	0,64
700-324	18 8 UE/XE	25,0	18,5	0,68
700-324	18 8 UE/XE - IE3	15,0	11,0	0,68
700-324	22 8 UE/XE - IE3	20,0	15,0	0,73
800-324	30 8 UE/XE - IE3	25,0	18,5	0,92

24) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

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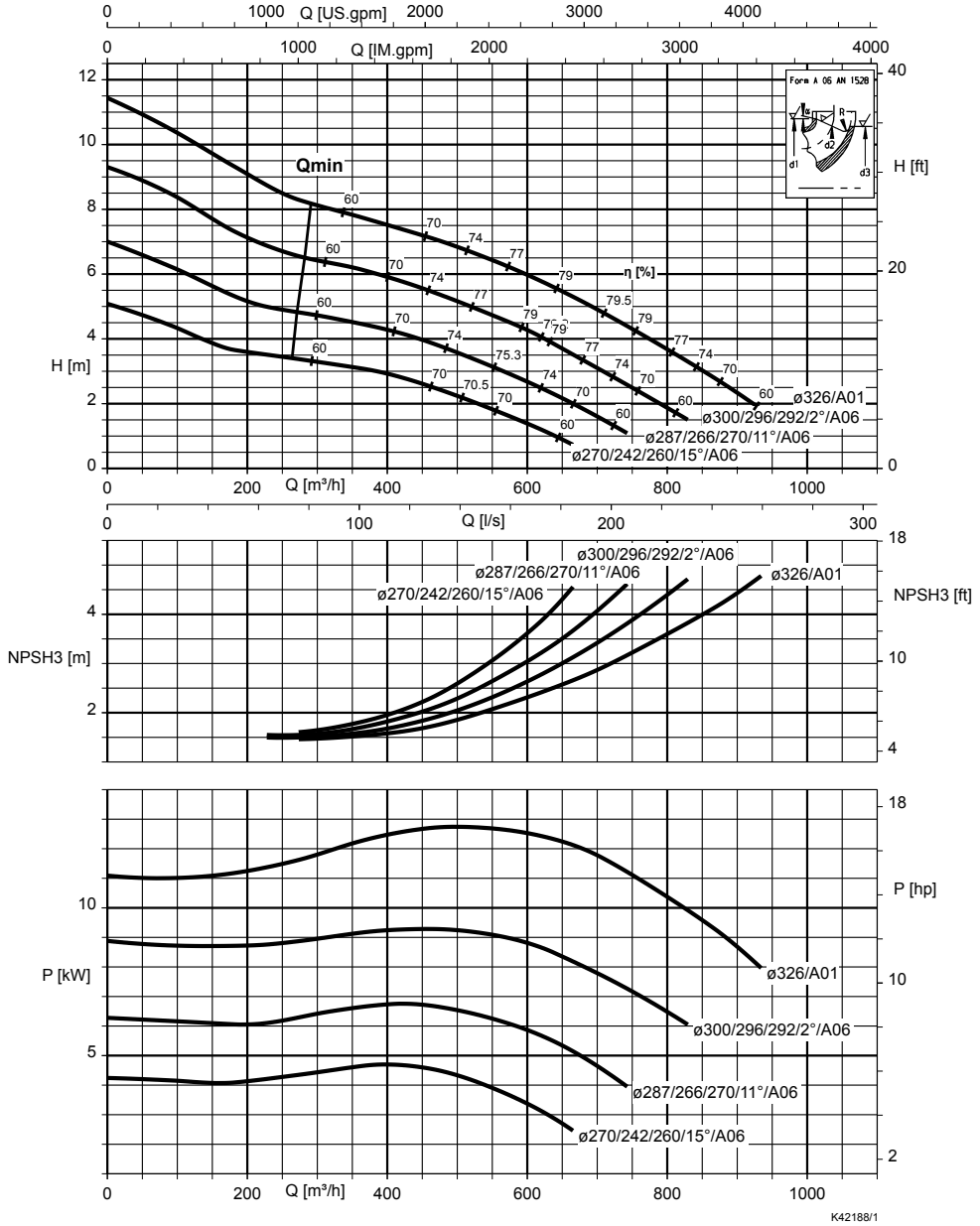
Amacan K 700-330, n = 875 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 2 $^{3}/_{4}$″ [70 mm]

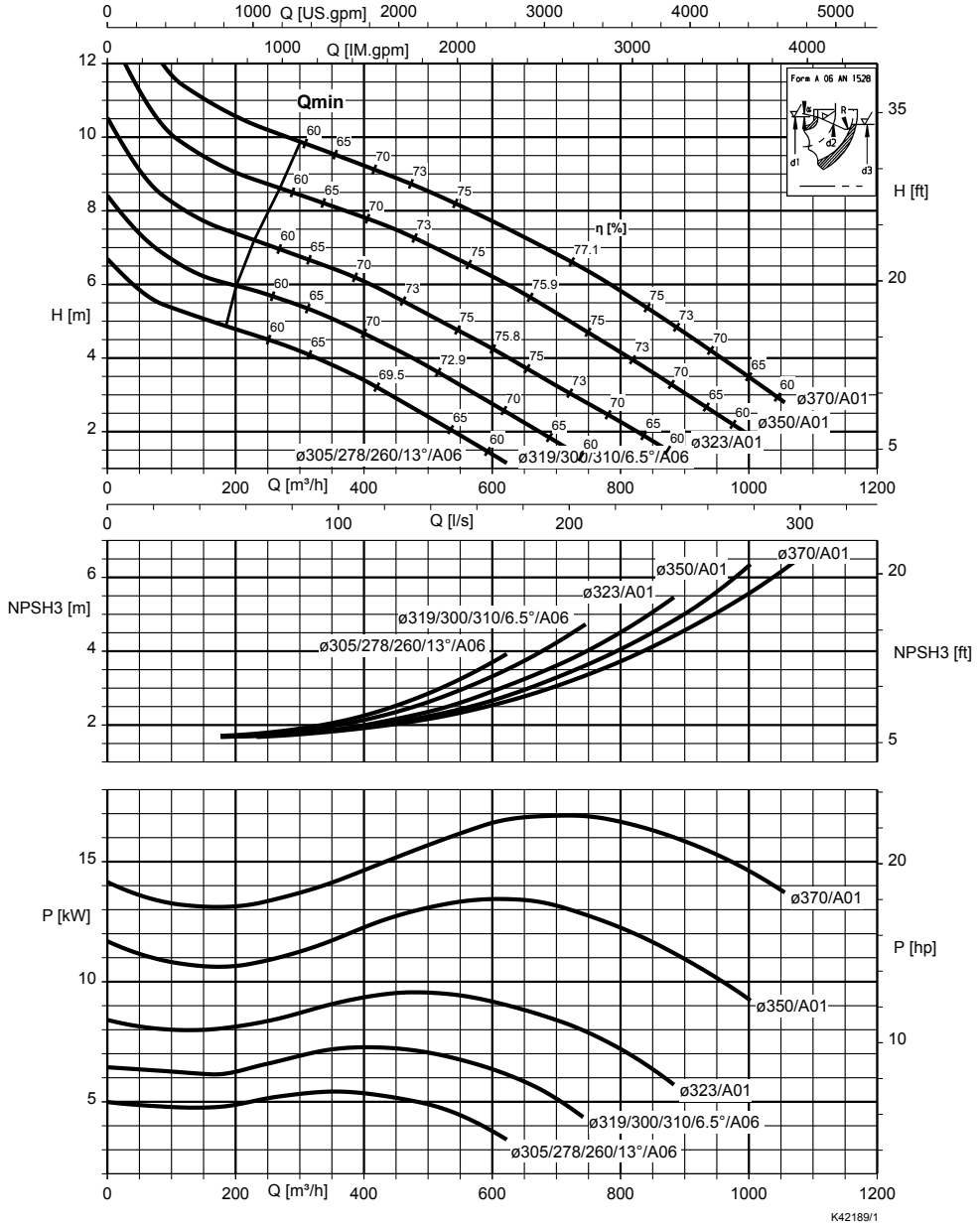
Rated power P_2 and mass moment of inertia J[25)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
700-330	11 8 UE/XE	15,0	11,0	0,54
700-330	15 8 UE/XE	20,0	15,0	0,54
700-330	15 8 UE/XE - IE3	10,0	7,5	0,54
700-330	18 8 UE/XE - IE3	15,0	11,0	0,58
700-330	22 8 UE/XE - IE3	20,0	15,0	0,63

25) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

Amacan K 700-371/800-371, n = 875 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 4 $^{1}/_{8}$″ [105 mm]

Rated power P_2 and mass moment of inertia J[26)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
700-371	11 8 UE/XE	15,0	11,0	0,74
700-371	15 8 UE/XE	20,0	15,0	0,74
700-371	15 8 UE/XE - IE3	10,0	7,5	0,74
700-371	18 8 UE/XE	25,0	18,5	0,78
700-371	18 8 UE/XE - IE3	15,0	11,0	0,78
700-371	22 8 UE/XE - IE3	20,0	15,0	0,83
800-371	30 8 UE/XE - IE3	25,0	18,5	1,02

26) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

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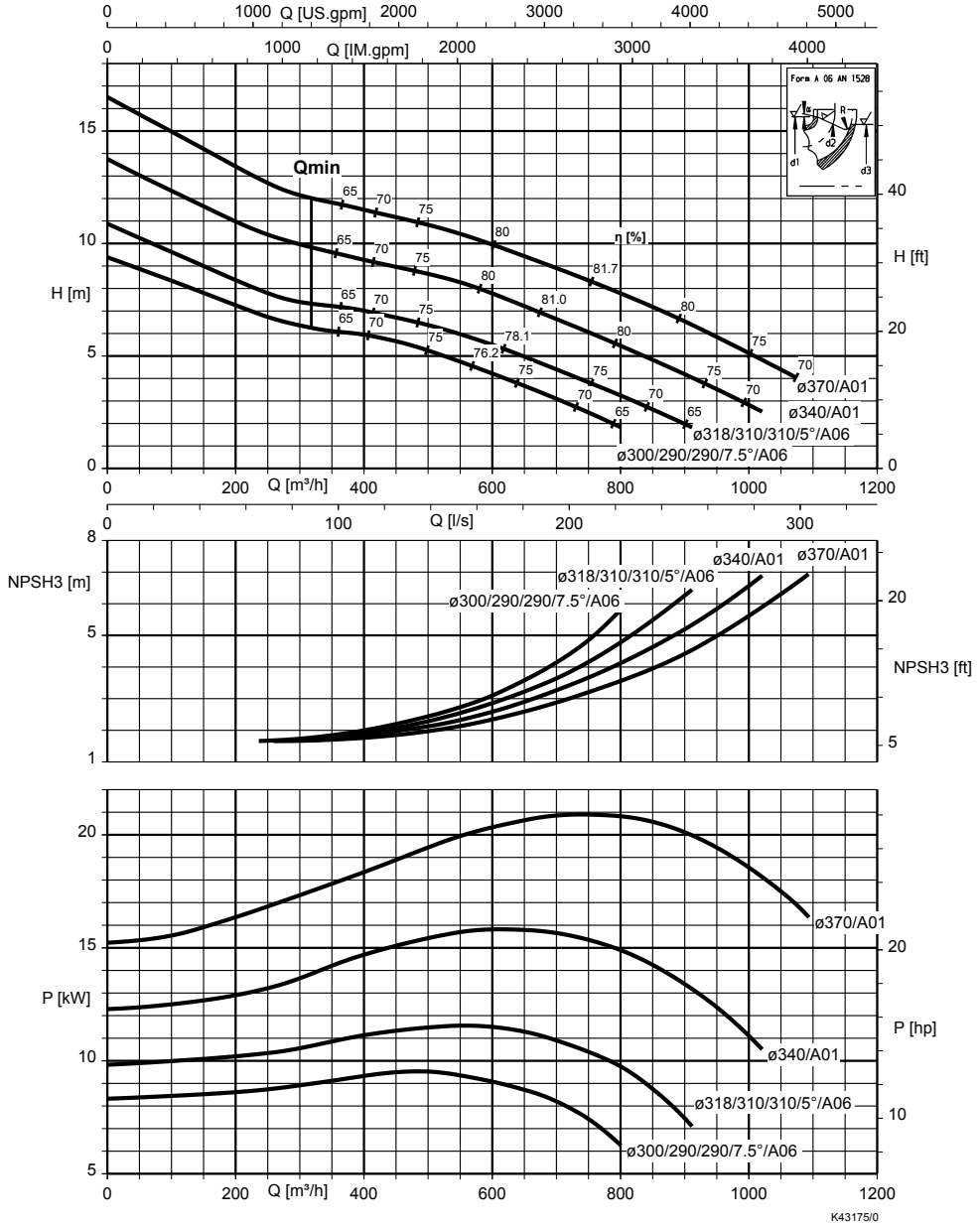
Amacan K 800-370, n = 875 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 3 $^{3}/_{8}$″ [85 mm]

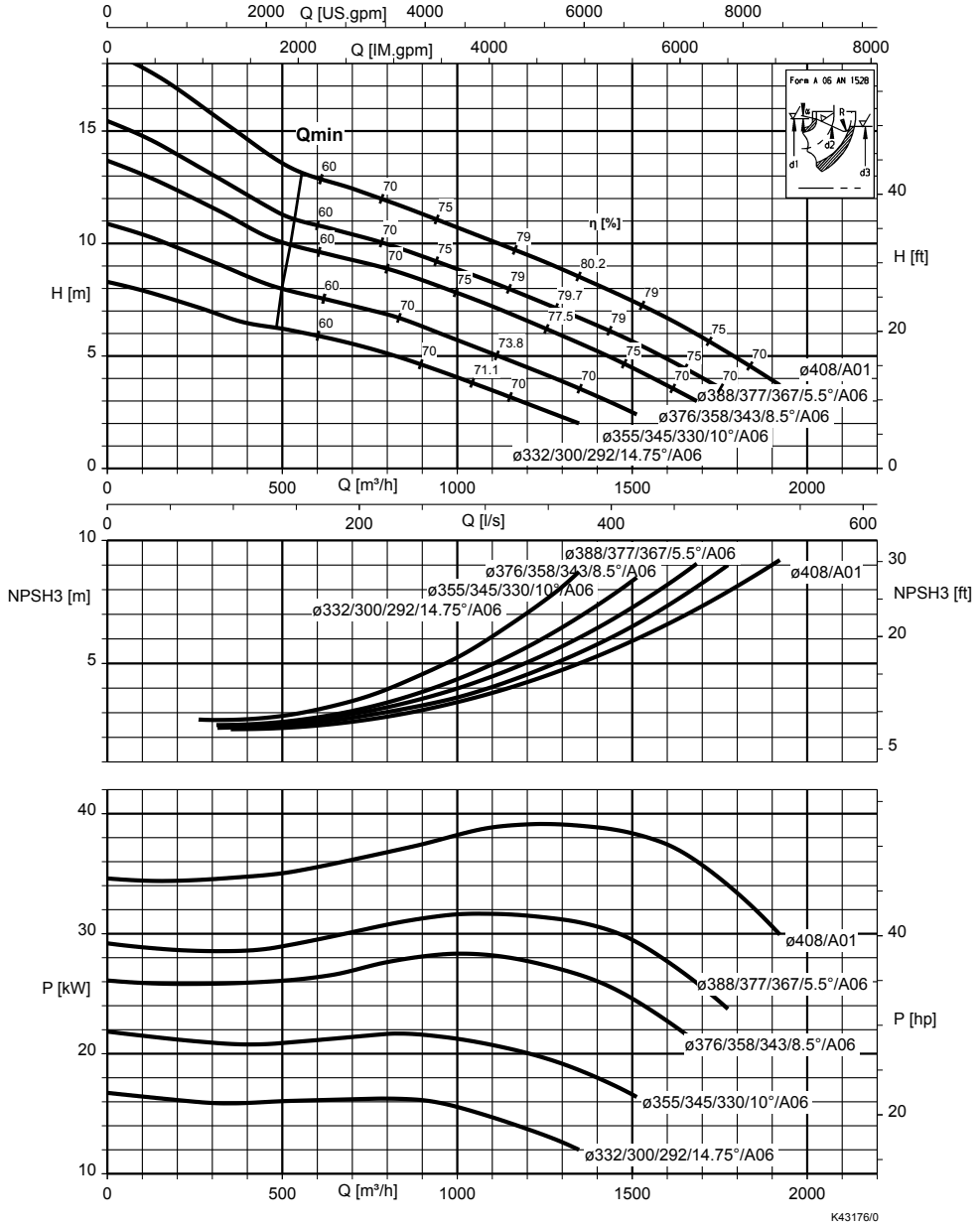
Rated power P_2 and mass moment of inertia J[27)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
800-370	11 8 UE/XE	15,0	11,0	0,69
800-370	15 8 UE/XE	20,0	15,0	0,69
800-370	18 8 UE/XE	25,0	18,5	0,73
800-370	18 8 UE/XE - IE3	15,0	11,0	0,73
800-370	22 8 UE/XE	30,0	22,0	0,78
800-370	22 8 UE/XE - IE3	20,0	15,0	0,78
800-370	30 8 UE/XE - IE3	25,0	18,5	0,97
800-370	37 8 UE/XE - IE3	30,0	22,0	1,05

27) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

Amacan K 800-400, n = 875 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 3 $^{15}/_{16}$" [100 mm]

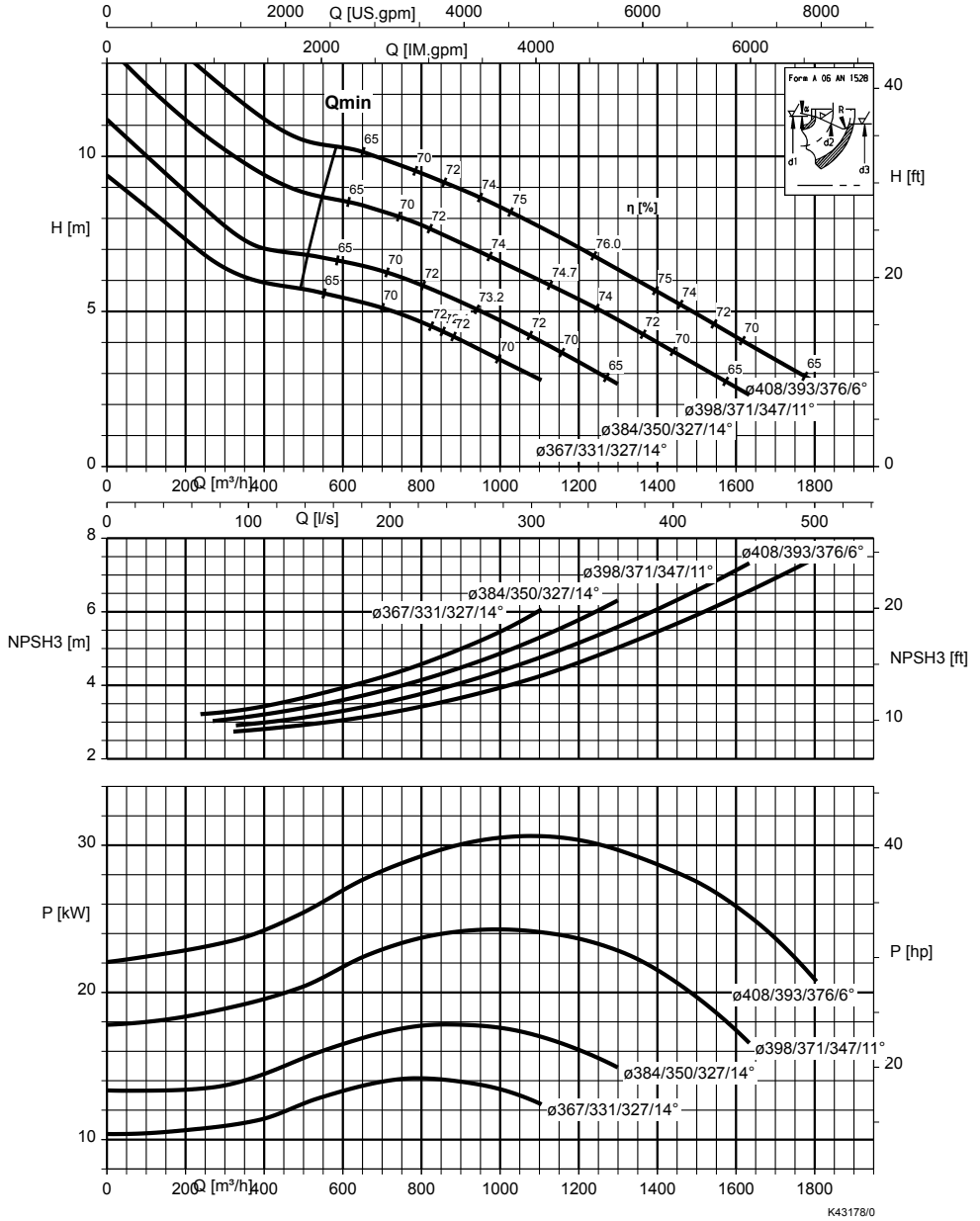
Rated power P_2 and mass moment of inertia J[28)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
800-400	18 8 UE/XE	25,0	18,5	0,98
800-400	22 8 UE/XE	30,0	22,0	1,03
800-400	30 8 UE/XE	40,0	30,0	1,22
800-400	30 8 UE/XE - IE3	25,0	18,5	1,22
800-400	37 8 UE/XE	50,0	37,0	1,30
800-400	37 8 UE/XE - IE3	30,0	22,0	1,30
800-400	45 8 UE/XE	60,0	45,0	1,40
800-400	45 8 UE/XE - IE3	40,0	30,0	1,40
800-400	65 8 UN/XN - IE3	50,0	37,0	1,55

28) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

Amacan K 800-401, n = 875 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 5 $^{5}/_{16}$" [135 mm]

Rated power P_2 and mass moment of inertia J[29)]

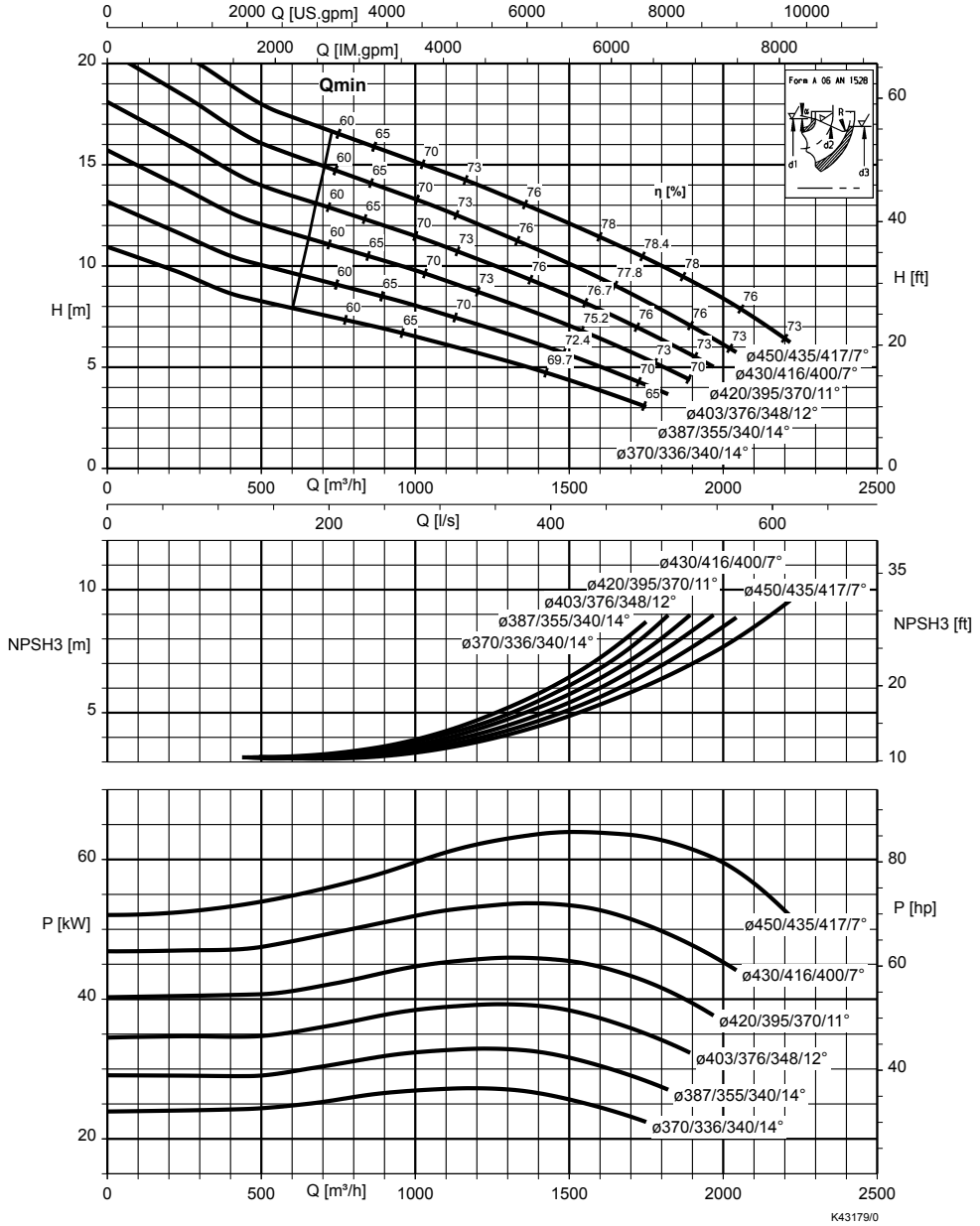
Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
800-401	15 8 UE/XE	20,0	15,0	0,94
800-401	18 8 UE/XE	25,0	18,5	0,98
800-401	22 8 UE/XE	30,0	22,0	1,03
800-401	22 8 UE/XE - IE3	20,0	15,0	1,03
800-401	30 8 UE/XE	40,0	30,0	1,22
800-401	30 8 UE/XE - IE3	25,0	18,5	1,22
800-401	37 8 UE/XE	50,0	37,0	1,30

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
800-401	37 8 UE/XE - IE3	30,0	22,0	1,30
800-401	45 8 UE/XE - IE3	40,0	30,0	1,40
800-401	65 8 UN/XN - IE3	50,0	37,0	1,55

29) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

Amacan K 1000-420, n = 875 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 3 $^{15}/_{16}$″ [100 mm]

Rated power P_2 and mass moment of inertia J[30)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
1000-420	50 8 UN/XN	67,0	50,0	1,88
1000-420	75 8 UN/XN	100,0	75,0	2,16
1000-420	90 8 UN/XN - IE3	75,0	56,0	3,20
1000-420	110 8 UN/XN - IE3	100,0	75,0	3,47

30) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

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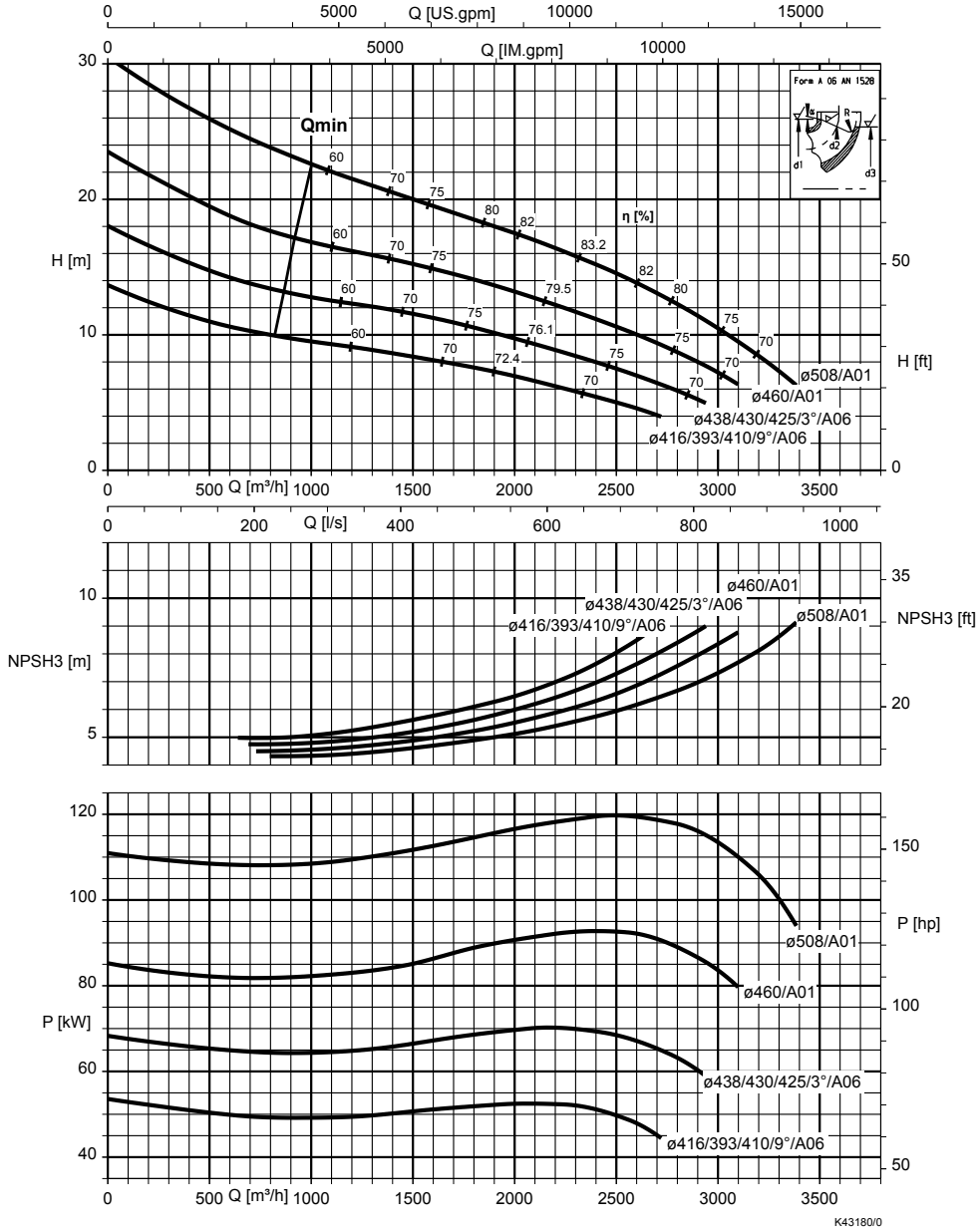
Amacan K 1000-500, n = 875 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 4 $^{5}/_{16}$" [110 mm]

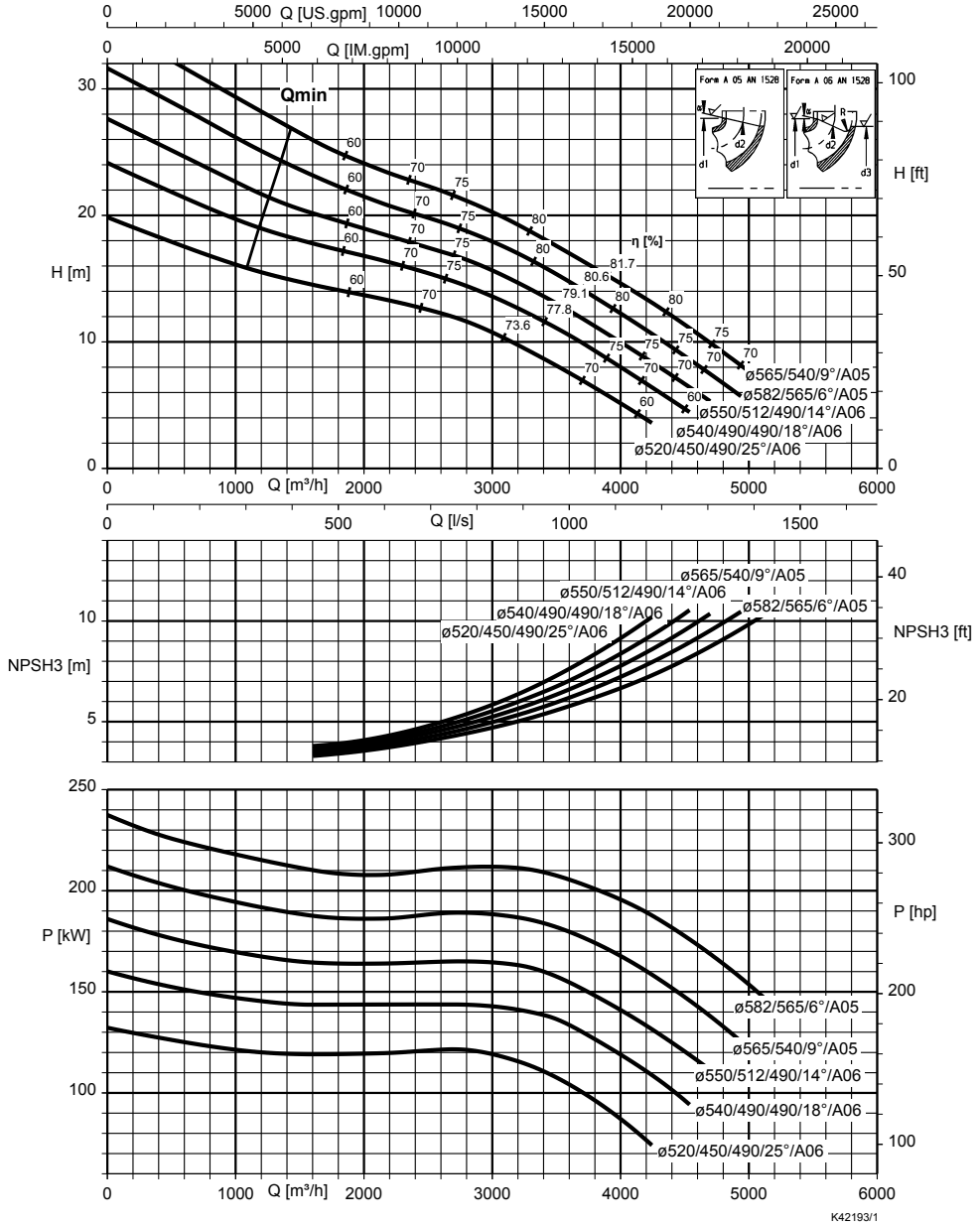
Rated power P_2 and mass moment of inertia J[31)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
1000-500	75 8 UN/XN	100,0	75,0	4,06
1000-500	90 8 UN/XN	121,0	90,0	5,10
1000-500	110 8 UN/XN	148,0	110,0	5,37
1000-500	110 8 UN/XN - IE3	100,0	75,0	5,37
1000-500	130 8 UN/XN	174,0	130,0	5,67
1000-500	150 8 UN/XN - IE3	120,0	90,0	10,42
1000-500	185 8 UN/XN - IE3	150,0	110,0	11,69

31) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

Amacan K 1200-630, n = 875 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 5 $^{1}/_{4}$" [133 mm]

Rated power P_2 and mass moment of inertia J[32)]

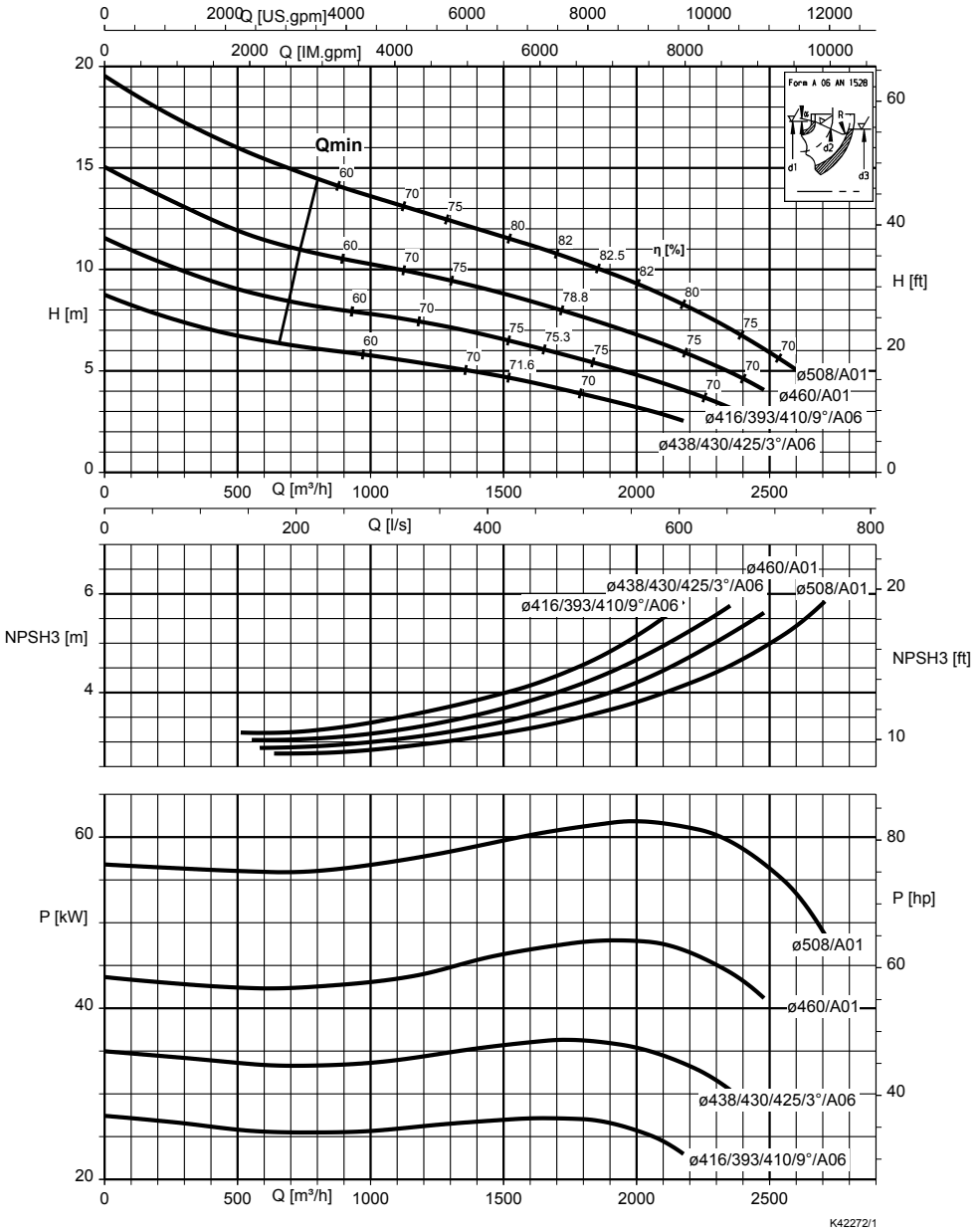
Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
1200-630	130 8 UN/XN	174,0	130,0	7,77
1200-630	150 8 UN/XN	200,0	150,0	12,52
1200-630	185 8 UN/XN	250,0	185,0	13,79
1200-630	220 8 UN/XN	295,0	220,0	15,06
1200-630	260 8 UN/XN	350,0	260,0	18,49
1200-630	260 8 UN/XN - IE3	240,0	180,0	18,49
1200-630	300 8 UN/XN - IE3	280,0	210,0	21,10
1200-630	350 8 UN/XN - IE3	335,0	250,0	24,35

32) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

n = 700 rpm

Amacan K 1000-500, n = 700 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 4 $^{5}/_{16}$" [110 mm]

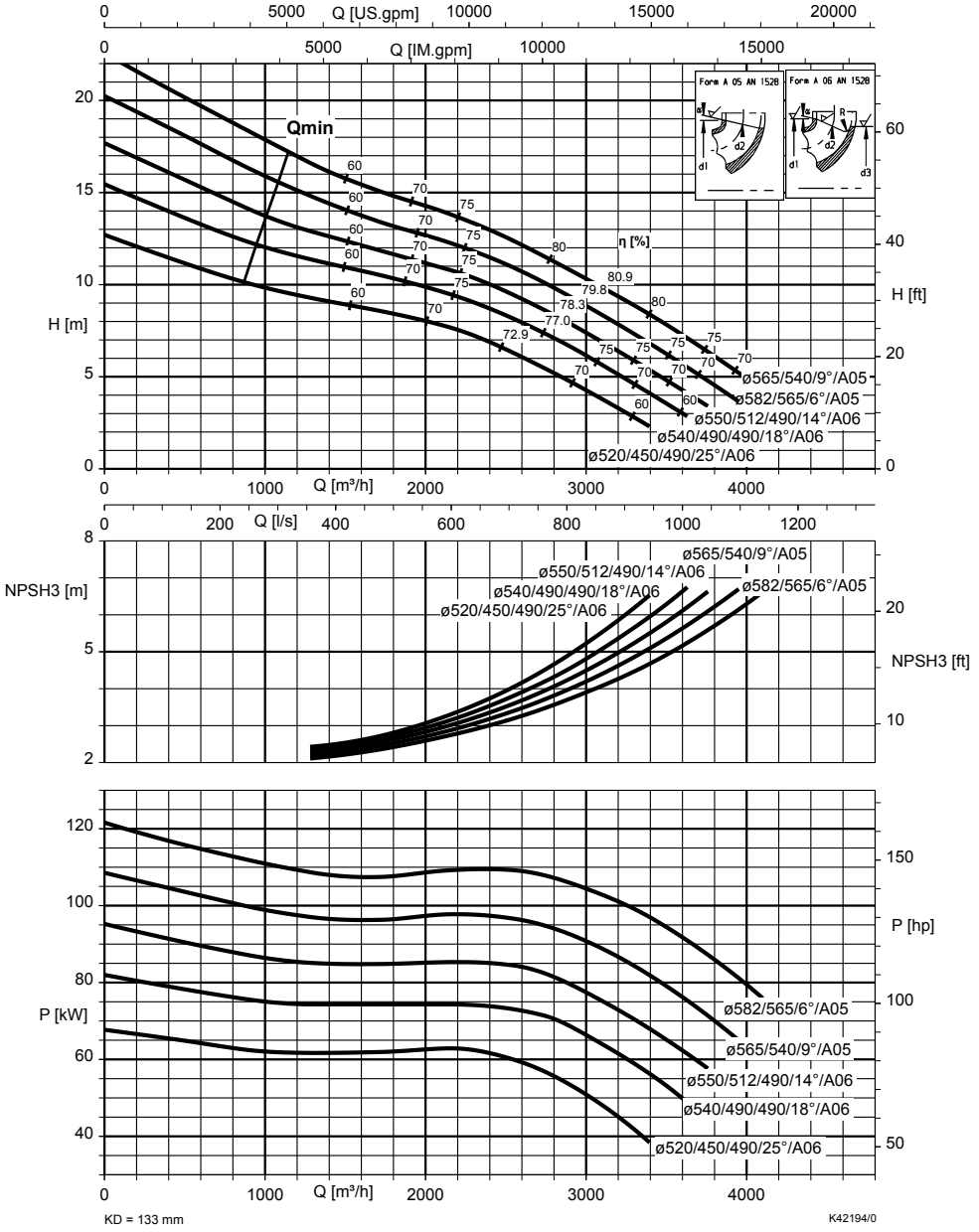
Rated power P_2 and mass moment of inertia J[33)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
1000-500	40 10 UN/XN	50,0	37,0	4,87
1000-500	60 10 UN/XN	80,0	60,0	5,05
1000-500	75 10 UN/XN	100,0	75,0	5,32

33) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

Amacan K 1200-630, n = 700 rpm

Characteristic curves to ISO 9906 / 2 / 2B. The characteristic curves correspond to the effective motor speed.



Free passage = 5 $^{1}/_{4}$″ [133 mm]

Rated power P_2 and mass moment of inertia J[34)]

Size	Motor	P_2		J
		[hp]	[kW]	[kgm²]
1200-630	60 10 UN/XN	80,0	60,0	7,15
1200-630	75 10 UN/XN	100,0	75,0	7,42
1200-630	90 10 UN/XN	121,0	90,0	7,71
1200-630	110 10 UN/XN	148,0	110,0	13,18
1200-630	150 10 UN/XN	200,0	150,0	14,88

34) These values are valid for a density = 1 kg/dm³ and a kinematic viscosity of up to 20 mm²/s.

Dimensions

Motor version UE, XE [inch]

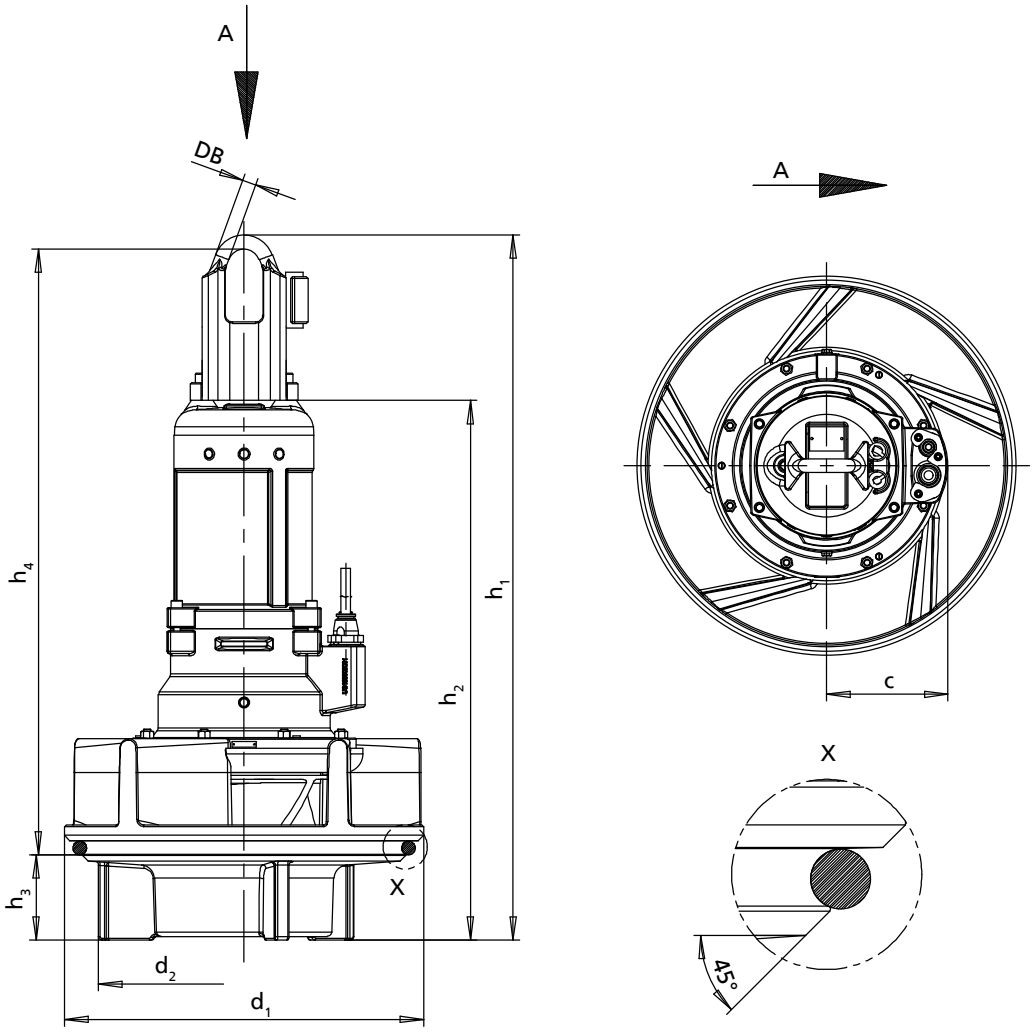


Fig. 1: Pump set dimensions

Pump set dimensions [inch]

Size	Motor	c	d_1	d_2	DB	h_1	h_2	h_3	h_4	[lbs][35)]
700-324	11 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1058
700-324	15 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1058
700-324	18 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1102
700-324	22 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1168
700-330	22 6.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1080
700-330	30 6.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1168
700-330	11 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1036
700-330	15 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1036
700-330	18 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1102
700-330	22 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1168
700-371	22 6.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1146
700-371	30 6.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1213
700-371	11 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1080
700-371	15 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1080
700-371	18 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1146
700-371	22 8.E	$10^1/_4$	$26^3/_8$	$21^7/_8$	$1^3/_{16}$	$57^1/_2$	$43^1/_2$	$5^{15}/_{16}$	$50^3/_8$	1213

35) Pump set with 10 m power cable (460 V)

Size	Motor	c	d_1	d_2	DB	h_1	h_2	h_3	h_4	[lbs][35]
800-324	30 8.E	14	26 3/8	21 7/8	1 9/16	56 1/2	41 3/4	5 15/16	49	1433
800-330	31 6.E	14	26 3/8	21 7/8	1 9/16	56 1/2	41 3/4	5 15/16	49	1433
800-330	37 6.E	14	26 3/8	21 7/8	1 9/16	56 1/2	41 3/4	5 15/16	49	1433
800-330	45 6.E	14	26 3/8	21 7/8	1 9/16	62 3/16	47 7/16	5 15/16	54 3/4	1455
800-330	55 6.E	14	26 3/8	21 7/8	1 9/16	62 3/16	47 7/16	5 15/16	54 3/4	1587
800-370	22 6.E	10 1/4	29 15/16	25 3/16	1 3/16	55 1/2	41 9/16	5 13/16	48 7/16	1235
800-370	30 6.E	10 1/4	29 15/16	25 3/16	1 3/16	55 1/2	41 9/16	5 13/16	48 7/16	1301
800-370	37 6.E	14	29 15/16	25 3/16	1 9/16	54 1/2	39 3/4	5 13/16	47 1/4	1565
800-370	45 6.E	14	29 15/16	25 3/16	1 9/16	60 1/4	45 1/2	5 13/16	52 15/16	1587
800-370	55 6.E	14	29 15/16	25 3/16	1 9/16	60 1/4	45 1/2	5 13/16	52 15/16	1720
800-370	11 8.E	10 1/4	29 15/16	25 3/16	1 3/16	55 1/2	41 9/16	5 13/16	48 7/16	1168
800-370	15 8.E	10 1/4	29 15/16	25 3/16	1 3/16	55 1/2	41 9/16	5 13/16	48 7/16	1168
800-370	18 8.E	10 1/4	29 15/16	25 3/16	1 3/16	55 1/2	41 9/16	5 13/16	48 7/16	1235
800-370	22 8.E	10 1/4	29 15/16	25 3/16	1 3/16	55 1/2	41 9/16	5 13/16	48 7/16	1301
800-370	30 8.E	14	29 15/16	25 3/16	1 9/16	54 1/2	39 3/4	5 13/16	47 1/4	1565
800-370	37 8.E	14	29 15/16	25 3/16	1 9/16	60 1/4	45 1/2	5 13/16	52 15/16	1587
800-371	31 6.E	14	26 3/8	21 7/8	1 9/16	56 1/2	41 3/4	5 15/16	49	1477
800-371	37 6.E	14	26 3/8	21 7/8	1 9/16	56 1/2	41 3/4	5 15/16	49	1477
800-371	45 6.E	14	26 3/8	21 7/8	1 9/16	62 3/16	47 7/16	5 15/16	54 3/4	1521
800-371	55 6.E	14	26 3/8	21 7/8	1 9/16	62 3/16	47 7/16	5 15/16	54 3/4	1631
800-371	30 8.E	14	26 3/8	21 7/8	1 9/16	56 1/2	41 3/4	5 15/16	49	1477
800-400	18 8.E	10 1/4	30 5/16	25 3/16	1 3/16	59 5/8	45 1/16	7 3/16	51 3/16	1367
800-400	22 8.E	10 1/4	30 5/16	25 3/16	1 3/16	59 5/8	45 11/16	7 3/16	51 3/16	1433
800-400	30 8.E	14	30 5/16	25 3/16	1 9/16	58 11/16	43 7/8	7 3/16	50	1698
800-400	37 8.E	14	30 5/16	25 3/16	1 9/16	64 3/8	49 5/8	7 3/16	55 11/16	1742
800-400	45 8.E	14	30 5/16	25 3/16	1 9/16	64 3/8	49 5/8	7 3/16	55 11/16	1874
800-401	37 6.E	14	30 5/16	25 3/16	1 9/16	58 11/16	43 7/8	7 3/16	50	1720
800-401	45 6.E	14	30 5/16	25 3/16	1 9/16	64 3/8	49 5/8	7 3/16	55 11/16	1764
800-401	55 6.E	14	30 5/16	25 3/16	1 9/16	64 3/8	49 5/8	7 3/16	55 11/16	1874
800-401	15 8.E	10 1/4	30 5/16	25 3/16	1 3/16	59 5/8	45 11/16	7 3/16	51 3/16	1345
800-401	18 8.E	10 1/4	30 5/16	25 3/16	1 3/16	59 5/8	45 11/16	7 3/16	51 3/16	1389
800-401	22 8.E	10 1/4	30 5/16	25 3/16	1 3/16	59 5/8	45 11/16	7 3/16	51 3/16	1455
800-401	30 8.E	14	30 5/16	25 3/16	1 9/16	58 11/16	43 7/8	7 3/16	50	1720
800-401	37 8.E	14	30 5/16	25 3/16	1 9/16	64	49 3/16	7 3/16	55 5/16	1764
800-401	45 8.E	14	30 5/16	25 3/16	1 9/16	64 3/8	49 5/8	7 3/16	55 11/16	1896

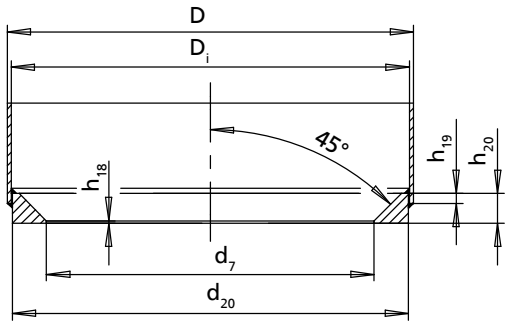


Fig. 2: Seating ring dimensions

Seating ring dimensions [inch]

Size	Motor	D[36]	D_i	d_7	d_{20}	h_{18}	h_{19}	h_{20}
700-324	11 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-324	15 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-324	18 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-324	22 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8

36) D for recommended wall thickness of the discharge tube (see dimension s1 in the general arrangement drawings or in General Arrangement Drawings booklet 1579.396)

Size	Motor	D[36)]	D_i	d_7	d_{20}	h_{18}	h_{19}	h_{20}
700-330	22 6.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-330	30 6.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-330	11 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-330	15 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-330	18 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-330	22 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-371	22 6.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-371	30 6.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-371	11 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-371	15 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-371	18 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
700-371	22 8.E	28	27 3/8	22 7/16	27 3/16	3/16	13/16	2 3/8
800-324	30 8.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-330	31 6.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-330	37 6.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-330	45 6.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-330	55 6.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-370	22 6.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	30 6.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	37 6.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	45 6.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	55 6.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	11 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	15 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	18 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	22 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	30 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-370	37 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-371	31 6.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-371	37 6.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-371	45 6.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-371	55 6.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-371	30 8.E	32	31 3/8	22 7/16	31 1/4	3/16	13/16	2 3/8
800-400	18 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-400	22 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-400	30 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-400	37 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-400	45 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	37 6.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	45 6.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	55 6.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	15 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	18 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	22 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	30 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	37 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	45 8.E	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8

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Motor version UE, XE [mm]

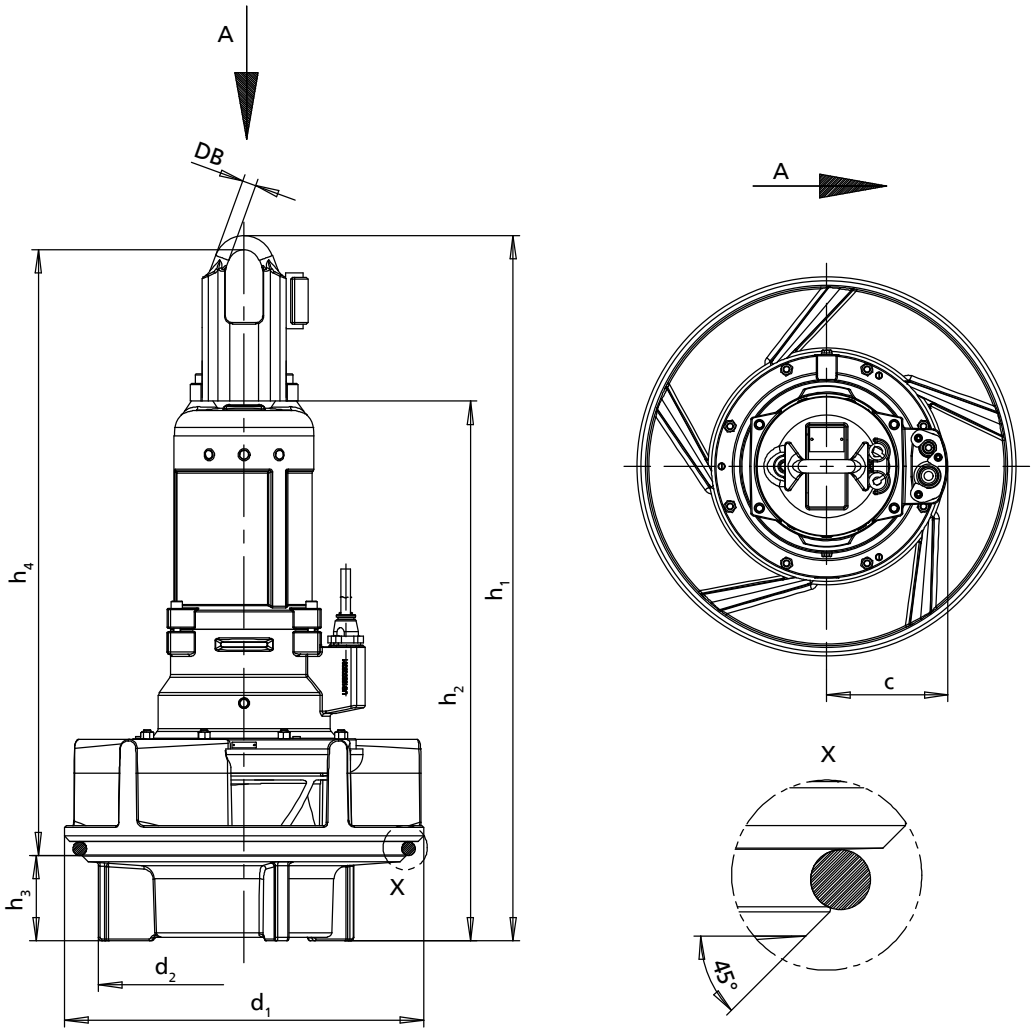

Fig. 3: Pump set dimensions

Pump set dimensions [mm]

Size	Motor	c	d_1	d_2	DB	h_1	h_2	h_3	h_4	[kg][37]
700-324	11 8.E	260	670	556	30	1460	1105	151	1280	480
700-324	15 8.E	260	670	556	30	1460	1105	151	1280	480
700-324	18 8.E	260	670	556	30	1460	1105	151	1280	500
700-324	22 8.E	260	670	556	30	1460	1105	151	1280	530
700-330	22 6.E	260	670	556	30	1460	1105	151	1280	490
700-330	30 6.E	260	670	556	30	1460	1105	151	1280	530
700-330	11 8.E	260	670	556	30	1460	1105	151	1280	470
700-330	15 8.E	260	670	556	30	1460	1105	151	1280	470
700-330	18 8.E	260	670	556	30	1460	1105	151	1280	500
700-330	22 8.E	260	670	556	30	1460	1105	151	1280	530
700-371	22 6.E	260	670	556	30	1460	1105	151	1280	520
700-371	30 6.E	260	670	556	30	1460	1105	151	1280	550
700-371	11 8.E	260	670	556	30	1460	1105	151	1280	490
700-371	15 8.E	260	670	556	30	1460	1105	151	1280	490
700-371	18 8.E	260	670	556	30	1460	1105	151	1280	520
700-371	22 8.E	260	670	556	30	1460	1105	151	1280	550
800-324	30 8.E	355	670	556	40	1435	1060	151	1245	650
800-330	31 6.E	355	670	556	40	1435	1060	151	1245	650

37) Pump set with 10 m power cable (460 V)

Size	Motor	c	d_1	d_2	DB	h_1	h_2	h_3	h_4	[kg][37)]
800-330	37 6.E	355	670	556	40	1435	1060	151	1245	650
800-330	45 6.E	355	670	556	40	1580	1205	151	1390	660
800-330	55 6.E	355	670	556	40	1580	1205	151	1390	720
800-370	22 6.E	260	760	640	30	1410	1055	148	1230	560
800-370	30 6.E	260	760	640	30	1410	1055	148	1230	590
800-370	37 6.E	355	760	640	40	1385	1010	148	1200	710
800-370	45 6.E	355	760	640	40	1530	1155	148	1345	720
800-370	55 6.E	355	760	640	40	1530	1155	148	1345	780
800-370	11 8.E	260	760	640	30	1410	1055	148	1230	530
800-370	15 8.E	260	760	640	30	1410	1055	148	1230	530
800-370	18 8.E	260	760	640	30	1410	1055	148	1230	560
800-370	22 8.E	260	760	640	30	1410	1055	148	1230	590
800-370	30 8.E	355	760	640	40	1385	1010	148	1200	710
800-370	37 8.E	355	760	640	40	1530	1155	148	1345	720
800-371	31 6.E	355	670	556	40	1435	1060	151	1245	670
800-371	37 6.E	355	670	556	40	1435	1060	151	1245	670
800-371	45 6.E	355	670	556	40	1580	1205	151	1390	690
800-371	55 6.E	355	670	556	40	1580	1205	151	1390	740
800-371	30 8.E	355	670	556	40	1435	1060	151	1245	670
800-400	18 8.E	260	770	640	30	1515	1160	183	1300	620
800-400	22 8.E	260	770	640	30	1515	1160	183	1300	650
800-400	30 8.E	355	770	640	40	1490	1115	183	1270	770
800-400	37 8.E	355	770	640	40	1635	1260	183	1415	790
800-400	45 8.E	355	770	640	40	1635	1260	183	1415	850
800-401	37 6.E	355	770	640	40	1490	1115	183	1270	780
800-401	45 6.E	355	770	640	40	1635	1260	183	1415	800
800-401	55 6.E	355	770	640	40	1635	1260	183	1415	850
800-401	15 8.E	260	770	640	30	1515	1160	183	1300	610
800-401	18 8.E	260	770	640	30	1515	1160	183	1300	630
800-401	22 8.E	260	770	640	30	1515	1160	183	1300	660
800-401	30 8.E	355	770	640	40	1490	1115	183	1270	780
800-401	37 8.E	355	770	640	40	1625	1250	183	1405	800
800-401	45 8.E	355	770	640	40	1635	1260	183	1415	860

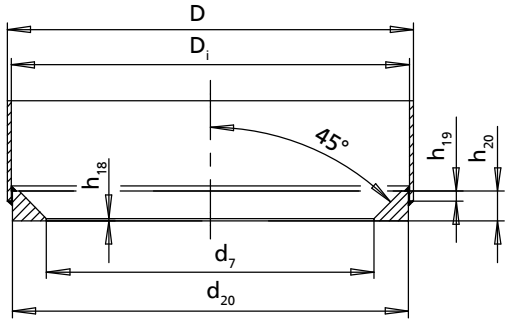

Fig. 4: Seating ring dimensions

Seating ring dimensions [mm]

Size	Motor	D[38)]	D_i	d_7	d_{20}	h_{18}	h_{19}	h_{20}
700-324	11 8.E	711	695	570	691	5	20	60
700-324	15 8.E	711	695	570	691	5	20	60
700-324	18 8.E	711	695	570	691	5	20	60
700-324	22 8.E	711	695	570	691	5	20	60
700-330	22 6.E	711	695	570	691	5	20	60
700-330	30 6.E	711	695	570	691	5	20	60
700-330	11 8.E	711	695	570	691	5	20	60
700-330	15 8.E	711	695	570	691	5	20	60
700-330	18 8.E	711	695	570	691	5	20	60
700-330	22 8.E	711	695	570	691	5	20	60
700-371	22 6.E	711	695	570	691	5	20	60
700-371	30 6.E	711	695	570	691	5	20	60
700-371	11 8.E	711	695	570	691	5	20	60
700-371	15 8.E	711	695	570	691	5	20	60
700-371	18 8.E	711	695	570	691	5	20	60
700-371	22 8.E	711	695	570	691	5	20	60
800-324	30 8.E	813	797	570	793	5	20	60
800-330	31 6.E	813	797	570	793	5	20	60
800-330	37 6.E	813	797	570	793	5	20	60
800-330	45 6.E	813	797	570	793	5	20	60
800-330	55 6.E	813	797	570	793	5	20	60
800-370	22 6.E	813	797	656	793	5	20	60
800-370	30 6.E	813	797	656	793	5	20	60
800-370	37 6.E	813	797	656	793	5	20	60
800-370	45 6.E	813	797	656	793	5	20	60
800-370	55 6.E	813	797	656	793	5	20	60
800-370	11 8.E	813	797	656	793	5	20	60
800-370	15 8.E	813	797	656	793	5	20	60
800-370	18 8.E	813	797	656	793	5	20	60
800-370	22 8.E	813	797	656	793	5	20	60
800-370	30 8.E	813	797	656	793	5	20	60
800-370	37 8.E	813	797	656	793	5	20	60
800-371	31 6.E	813	797	570	793	5	20	60
800-371	37 6.E	813	797	570	793	5	20	60
800-371	45 6.E	813	797	570	793	5	20	60
800-371	55 6.E	813	797	570	793	5	20	60
800-371	30 8.E	813	797	570	793	5	20	60
800-400	18 8.E	813	797	656	793	5	20	60
800-400	22 8.E	813	797	656	793	5	20	60
800-400	30 8.E	813	797	656	793	5	20	60
800-400	37 8.E	813	797	656	793	5	20	60

38) D for recommended wall thickness of the discharge tube (see dimension s1 in the general arrangement drawings or in General Arrangement Drawings booklet 1579.396)

Size	Motor	D[38)]	D_i	d_7	d_{20}	h_{18}	h_{19}	h_{20}
800-400	45 8.E	813	797	656	793	5	20	60
800-401	37 6.E	813	797	656	793	5	20	60
800-401	45 6.E	813	797	656	793	5	20	60
800-401	55 6.E	813	797	656	793	5	20	60
800-401	15 8.E	813	797	656	793	5	20	60
800-401	18 8.E	813	797	656	793	5	20	60
800-401	22 8.E	813	797	656	793	5	20	60
800-401	30 8.E	813	797	656	793	5	20	60
800-401	37 8.E	813	797	656	793	5	20	60
800-401	45 8.E	813	797	656	793	5	20	60

Motor version UN, XN [inch]

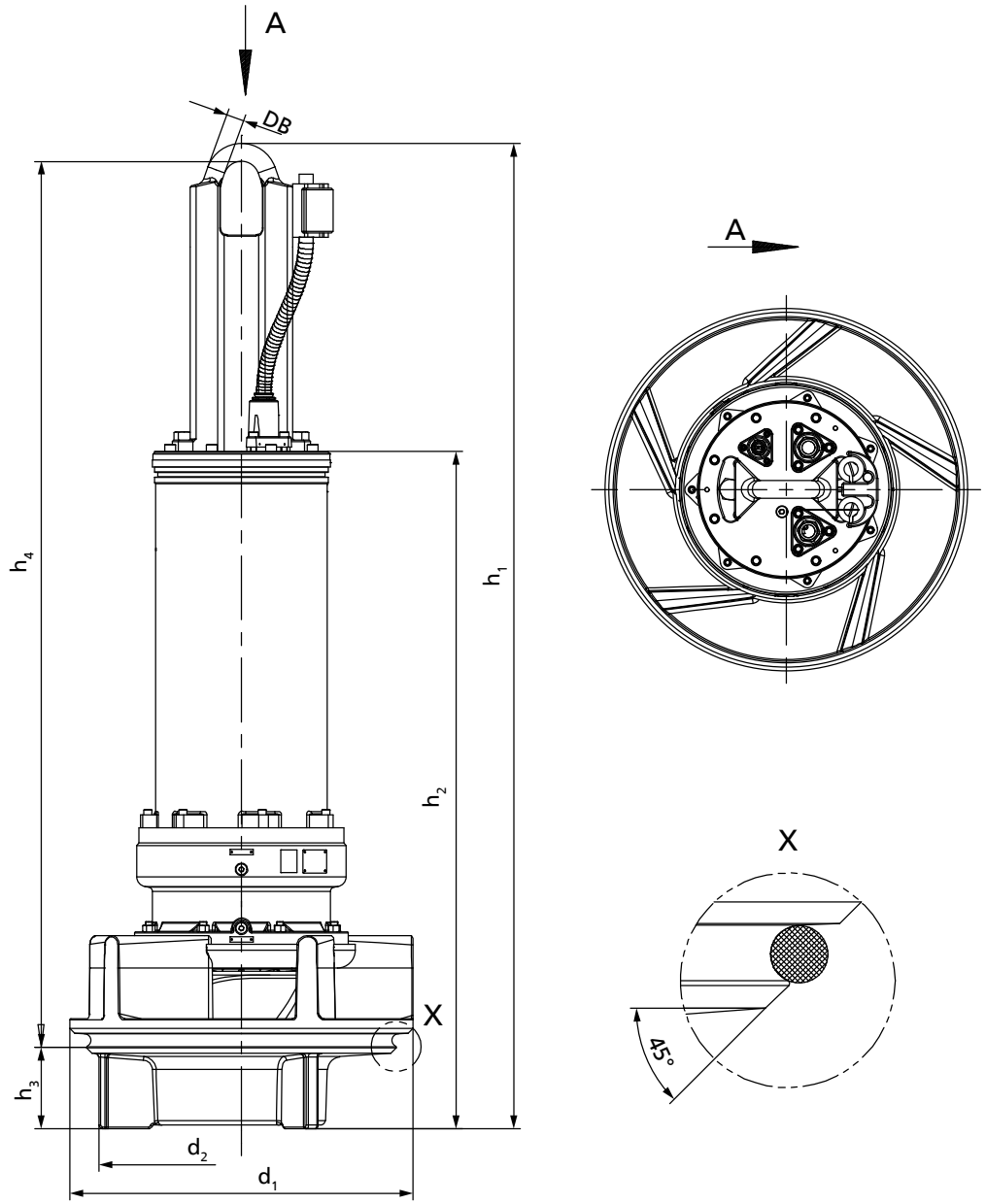

Fig. 5: Pump set dimensions

39) Pump set with 10 m power cable (460 V)

Pump set dimensions [inch]

Size	Motor	d_1	d_2	DB	h_1	h_2	h_3	h_4	[lbs][39]
800-370	80 6.N	29 15/16	25 3/16	1 9/16	90 3/4	63 9/16	5 13/16	83 7/16	2293
800-400	65 8.N	30 5/16	25 3/16	1 9/16	94 7/8	67 11/16	7 3/16	86	2447
800-401	60 6.N	30 5/16	25 3/16	1 9/16	87	59 13/16	7 3/16	78 1/8	2249
800-401	80 6.N	30 5/16	25 3/16	1 9/16	94 7/8	67 11/16	7 3/16	86	2469
800-401	65 8.N	30 5/16	25 3/16	1 9/16	94 7/8	67 11/16	7 3/16	86	2469
1000-420	50 8.N	38 3/16	33 1/16	1 9/16	90 15/16	63 3/4	8 1/4	81 1/8	2800
1000-420	75 8.N	38 3/16	33 1/16	1 9/16	98 13/16	71 5/8	8 1/4	89	3197
1000-420	90 8.N	38 3/16	33 1/16	1 9/16	103 3/8	76 3/16	8 1/4	93 1/2	3219
1000-420	110 8.N	38 3/16	33 1/16	1 9/16	103 3/8	76 3/16	8 1/4	93 1/2	3836
1000-500	75 8.N	38 3/16	32 5/16	1 9/16	99	71 7/8	8 1/16	89 3/8	3219
1000-500	90 8.N	38 3/16	32 5/16	1 9/16	103 9/16	76 3/8	8 1/16	93 7/8	3748
1000-500	110 8.N	38 3/16	32 5/16	1 9/16	103 9/16	76 3/8	8 1/16	93 7/8	3880
1000-500	130 8.N	38 3/16	32 5/16	1 9/16	103 9/16	76 3/8	8 1/16	93 7/8	4012
1000-500	150 8.N	38 3/16	32 5/16	1 15/16	113 9/16	89 15/16	8 1/16	103 9/16	5512
1000-500	185 8.N	38 3/16	32 5/16	1 15/16	113 9/16	89 15/16	8 1/16	103 9/16	5864
1000-500	40 10.N	38 3/16	32 5/16	1 9/16	103 9/16	76 3/8	8 1/16	93 7/8	3593
1000-500	60 10.N	38 3/16	32 5/16	1 9/16	103 9/16	76 3/8	8 1/16	93 7/8	3682
1000-500	75 10.N	38 3/16	32 5/16	1 9/16	103 9/16	76 3/8	8 1/16	93 7/8	3814
1200-630	130 8.N	44 7/8	37 13/16	1 9/16	105 11/16	78 9/16	10 9/16	93 11/16	4608
1200-630	150 8.N	44 7/8	37 13/16	1 15/16	115 3/4	92 1/8	10 9/16	103 1/8	5997
1200-630	185 8.N	44 7/8	37 13/16	1 15/16	115 3/4	92 1/8	10 9/16	103 1/8	6349
1200-630	220 8.N	44 7/8	37 13/16	1 15/16	115 3/4	92 1/8	10 9/16	103 1/8	6856
1200-630	260 8.N	44 7/8	37 13/16	2 3/8	126 3/16	98 5/8	10 9/16	113 3/16	7915
1200-630	300 8.N	44 7/8	37 13/16	2 3/8	135 1/16	107 1/2	10 9/16	132 5/16	8532
1200-630	350 8.N	44 7/8	37 13/16	2 3/8	135 1/16	107 1/2	10 9/16	132 5/16	9502
1200-630	60 10.N	44 7/8	37 13/16	1 9/16	105 11/16	78 9/16	10 9/16	93 11/16	4255
1200-630	75 10.N	44 7/8	37 13/16	1 9/16	105 11/16	78 9/16	10 9/16	93 11/16	4387
1200-630	90 10.N	44 7/8	37 13/16	1 9/16	105 11/16	78 9/16	10 9/16	93 11/16	4541
1200-630	110 10.N	44 7/8	37 13/16	1 15/16	115 3/4	92 1/8	10 9/16	103 1/8	5842
1200-630	150 10.N	44 7/8	37 13/16	1 15/16	115 3/4	92 1/8	10 9/16	103 1/8	6173

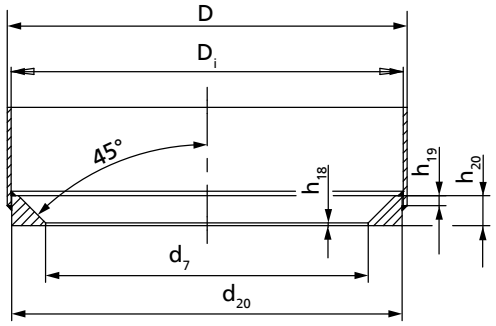

Fig. 6: Seating ring dimensions

Seating ring dimensions [inch]

Size	Motor	D[40]	D_i	d_7	d_{20}	h_{18}	h_{19}	h_{20}
800-370	80 6.N	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-400	65 8.N	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	60 6.N	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	80 6.N	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8
800-401	65 8.N	32	31 3/8	25 13/16	31 1/4	3/16	13/16	2 3/8

40) D for recommended wall thickness of the discharge tube (see dimension s1 in the general arrangement drawings or in General Arrangement Drawings booklet 1579.396)

Size	Motor	D[40)]	D_i	d_7	d_{20}	h_{18}	h_{19}	h_{20}
1000-420	50 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-420	75 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-420	90 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-420	110 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-500	75 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-500	90 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-500	110 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-500	130 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-500	150 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-500	185 8.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-500	40 10.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-500	60 10.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1000-500	75 10.N	40	$39^{3}/_{16}$	$33^{11}/_{16}$	$39^{1}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	130 8.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	150 8.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	185 8.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	220 8.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	260 8.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	300 8.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	350 8.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	60 10.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	75 10.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	90 10.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	110 10.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$
1200-630	150 10.N	$48^{1}/_{16}$	$47^{1}/_{16}$	$39^{15}/_{16}$	$46^{15}/_{16}$	$^{3}/_{16}$	$^{13}/_{16}$	$2^{3}/_{8}$

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Motor version UN, XN [mm]

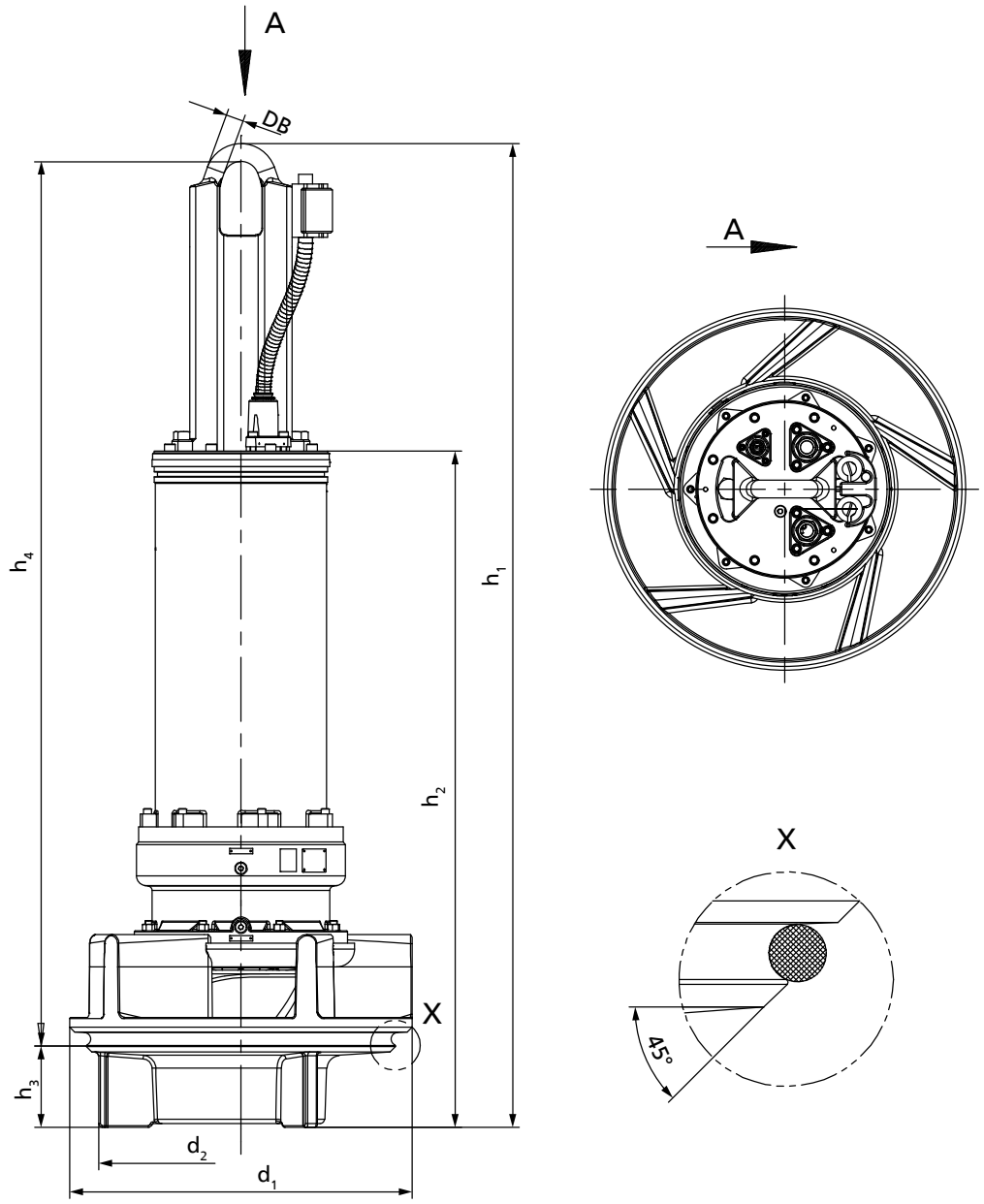

Fig. 7: Pump set dimensions

Pump set dimensions [mm]

Size	Motor	d_1	d_2	DB	h_1	h_2	h_3	h_4	[kg][41)]
800-370	80 6.N	760	640	40	2305	1615	148	2120	1040
800-400	65 8.N	770	640	40	2410	1720	183	2185	1110
800-401	60 6.N	770	640	40	2210	1520	183	1985	1020
800-401	80 6.N	770	640	40	2410	1720	183	2185	1120
800-401	65 8.N	770	640	40	2410	1720	183	2185	1120
1000-420	50 8.N	970	840	40	2310	1620	209	2060	1270
1000-420	75 8.N	970	840	40	2510	1820	209	2260	1450
1000-420	90 8.N	970	840	40	2625	1935	209	2375	1460
1000-420	110 8.N	970	840	40	2625	1935	209	2375	1740
1000-500	75 8.N	970	820	40	2515	1825	205	2270	1460
1000-500	90 8.N	970	820	40	2630	1940	205	2385	1700

41) Pump set with 10 m power cable (460 V)

Size	Motor	d_1	d_2	DB	h_1	h_2	h_3	h_4	[kg][41]
1000-500	110 8.N	970	820	40	2630	1940	205	2385	1760
1000-500	130 8.N	970	820	40	2630	1940	205	2385	1820
1000-500	150 8.N	970	820	50	2885	2285	205	2630	2500
1000-500	185 8.N	970	820	50	2885	2285	205	2630	2660
1000-500	40 10.N	970	820	40	2630	1940	205	2385	1630
1000-500	60 10.N	970	820	40	2630	1940	205	2385	1670
1000-500	75 10.N	970	820	40	2630	1940	205	2385	1730
1200-630	130 8.N	1140	960	40	2685	1995	268	2380	2090
1200-630	150 8.N	1140	960	50	2940	2340	268	2620	2720
1200-630	185 8.N	1140	960	50	2940	2340	268	2620	2880
1200-630	220 8.N	1140	960	50	2940	2340	268	2620	3110
1200-630	260 8.N	1140	960	60	3205	2505	268	2875	3590
1200-630	300 8.N	1140	960	60	3430	2730	268	3360	3870
1200-630	350 8.N	1140	960	60	3430	2730	268	3360	4310
1200-630	60 10.N	1140	960	40	2685	1995	268	2380	1930
1200-630	75 10.N	1140	960	40	2685	1995	268	2380	1990
1200-630	90 10.N	1140	960	40	2685	1995	268	2380	2060
1200-630	110 10.N	1140	960	50	2940	2340	268	2620	2650
1200-630	150 10.N	1140	960	50	2940	2340	268	2620	2800

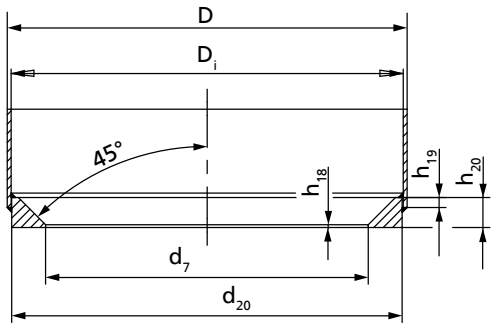

Fig. 8: Seating ring dimensions

Seating ring dimensions [mm]

Size	Motor	D[42]	D_i	d_7	d_{20}	h_{18}	h_{19}	h_{20}
800-370	80 6.N	813	797	656	793	5	20	60
800-400	65 8.N	813	797	656	793	5	20	60
800-401	60 6.N	813	797	656	793	5	20	60
800-401	80 6.N	813	797	656	793	5	20	60
800-401	65 8.N	813	797	656	793	5	20	60
1000-420	50 8.N	1016	996	856	992	5	20	60
1000-420	75 8.N	1016	996	856	992	5	20	60
1000-420	90 8.N	1016	996	856	992	5	20	60
1000-420	110 8.N	1016	996	856	992	5	20	60
1000-500	75 8.N	1016	996	856	992	5	20	60
1000-500	90 8.N	1016	996	856	992	5	20	60
1000-500	110 8.N	1016	996	856	992	5	20	60
1000-500	130 8.N	1016	996	856	992	5	20	60
1000-500	150 8.N	1016	996	856	992	5	20	60
1000-500	185 8.N	1016	996	856	992	5	20	60
1000-500	40 10.N	1016	996	856	992	5	20	60
1000-500	60 10.N	1016	996	856	992	5	20	60
1000-500	75 10.N	1016	996	856	992	5	20	60
1200-630	130 8.N	1220	1196	1015	1192	5	20	60
1200-630	150 8.N	1220	1196	1015	1192	5	20	60

42) D for recommended wall thickness of the discharge tube (see dimension s1 in the general arrangement drawings or in General Arrangement Drawings booklet 1579.396)

Size	Motor	D[42)]	D_i	d_7	d_{20}	h_{18}	h_{19}	h_{20}
1200-630	185 8.N	1220	1196	1015	1192	5	20	60
1200-630	220 8.N	1220	1196	1015	1192	5	20	60
1200-630	260 8.N	1220	1196	1015	1192	5	20	60
1200-630	300 8.N	1220	1196	1015	1192	5	20	60
1200-630	350 8.N	1220	1196	1015	1192	5	20	60
1200-630	60 10.N	1220	1196	1015	1192	5	20	60
1200-630	75 10.N	1220	1196	1015	1192	5	20	60
1200-630	90 10.N	1220	1196	1015	1192	5	20	60
1200-630	110 10.N	1220	1196	1015	1192	5	20	60
1200-630	150 10.N	1220	1196	1015	1192	5	20	60

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Types of installation

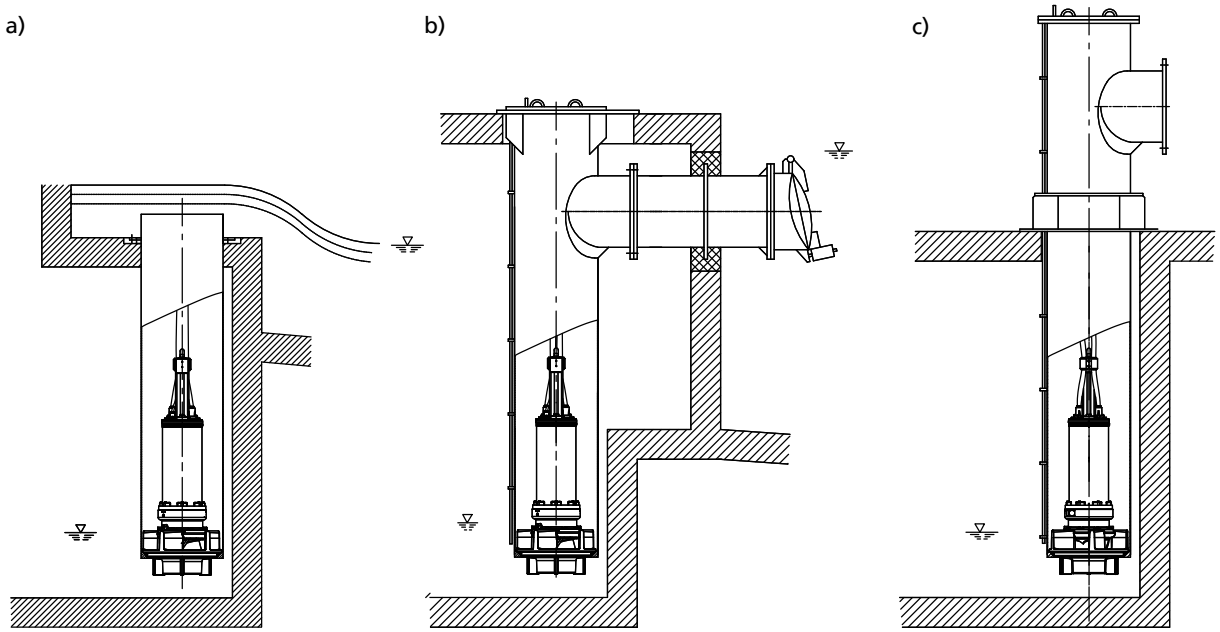

Fig. 9: Overview of installation types a) BU installation (overflow design) b) CU installation (design with underfloor discharge) c) DU installation (design with above-floor discharge nozzle)

Scope of supply

Depending on the model, the following items are included in the scope of supply:

- Pump set complete with power cables
- O-ring
- Back-up name plate

Optional accessories:

- Support rope
- Accessories for installing the cable guide:
  - Spacer
  - Turnbuckle
  - Support
  - Shackle
  - Cable clamps
- Cable support sleeves
- Discharge tube

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Accessories

Pump set with support rope and turnbuckle in the discharge tube

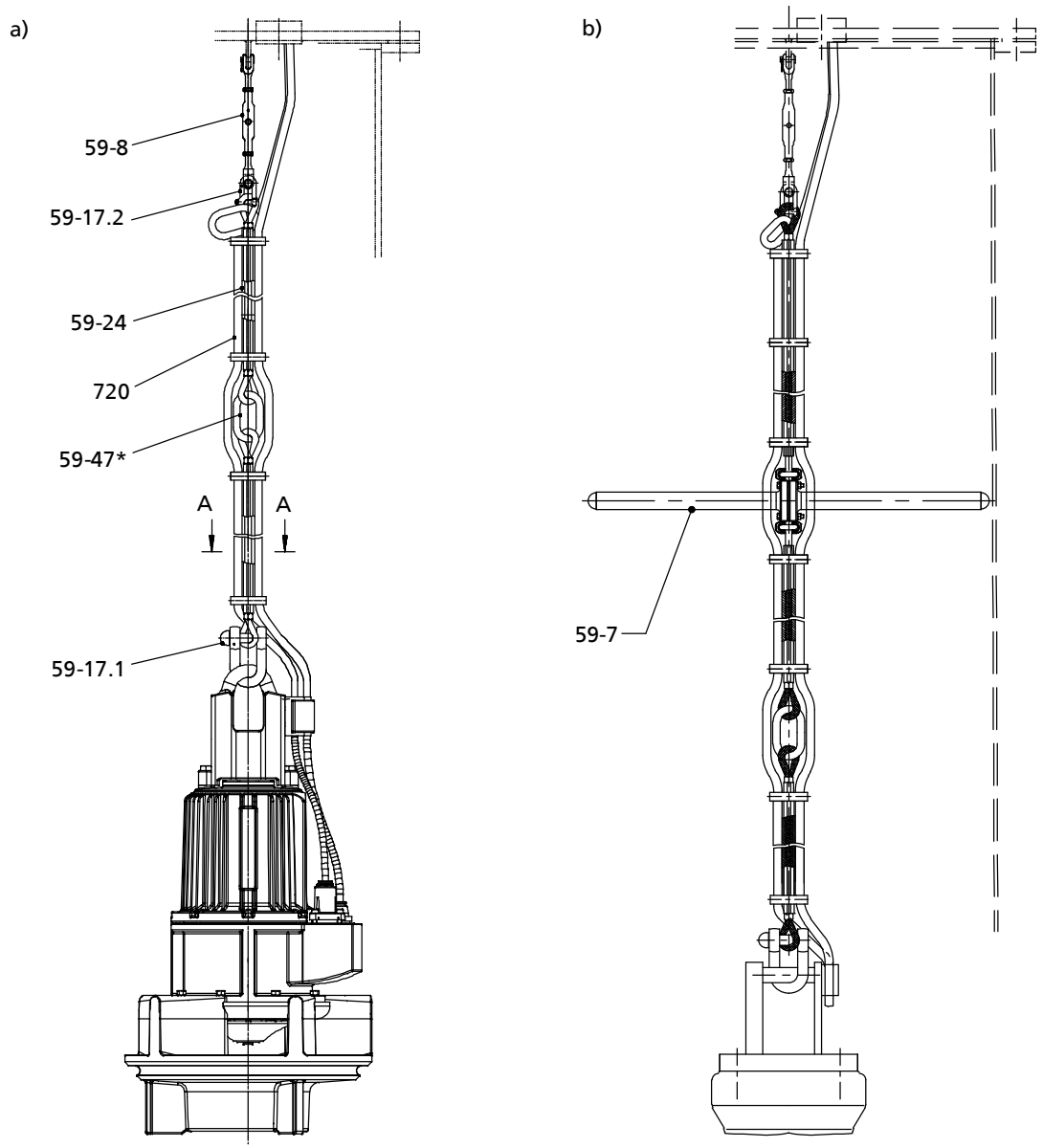

Fig. 10: a) Pump set with support rope and turnbuckle in the discharge tube b) Pump set with support rope and turnbuckle in the discharge tube, with support spacer for large installation depths

*	Optionally available. The number depends on the lifting height of the lifting equipment and on the building structure.

List of components

Part No.	Description	Material
59-17.1	Shackle	Galvanized steel (optional: stainless steel)
59-17.2	Shackle	Stainless steel
59-24	Guide cable	Stainless steel
59-47	Lifting ring (intermediate lifting ring)	Stainless steel
59-7	Support	GFRP
59-8	Turnbuckle	Stainless steel
720	Spacer	EPDM

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Cross-section of cable support

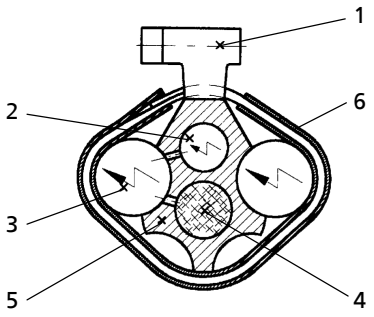

Fig. 11: Cross-section of cable support

List of components

Part No.	Description	Part No.	Description
1	Cable clamp (approximately every 400 mm)	4	Support rope 59-24
2	Control cable	5	Spacer
3	Power cable	6	Clamp cover

Discharge tube cover with cable gland

Design: with welding sleeve

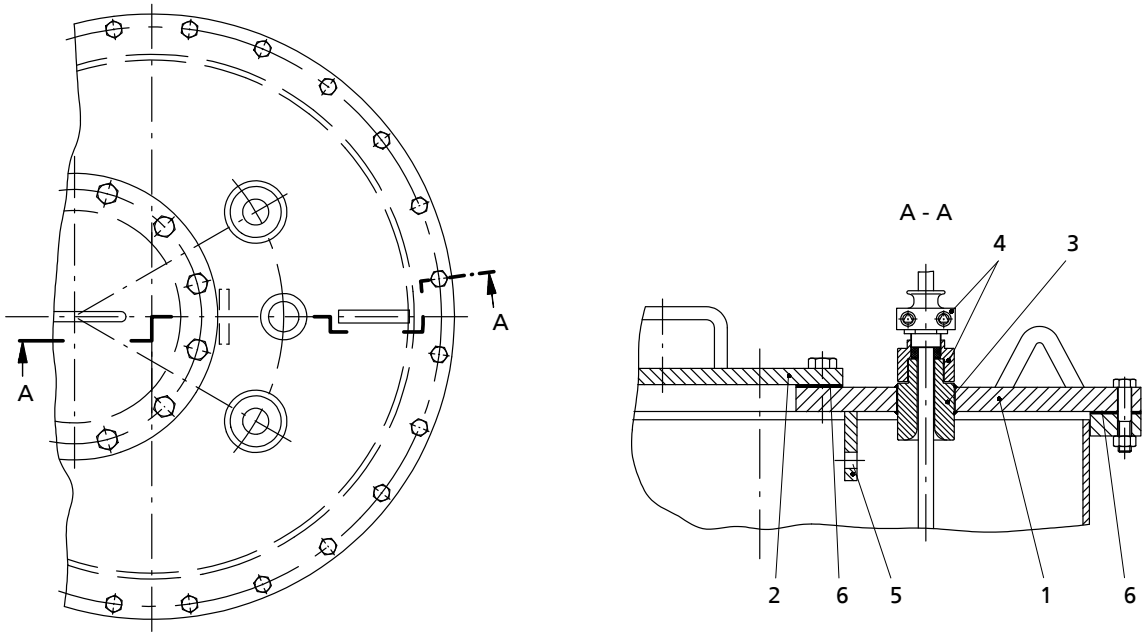

Fig. 12: Design variant with welding sleeve

List of components

Part No.	Description	Part No.	Description
1	Discharge tube cover[43)]	4	Threaded bush with cable entry to DIN 22419 with strain relief and protection against kinking and twisting
2	Cover	5	Eyeplate for fastening the cable support (support rope)
3	Welding sleeve	6	Gasket, e.g. fabric-reinforced rubber

43) Discharge tube cover also available in split design

Design variant with transit frame (up to 1 bar)

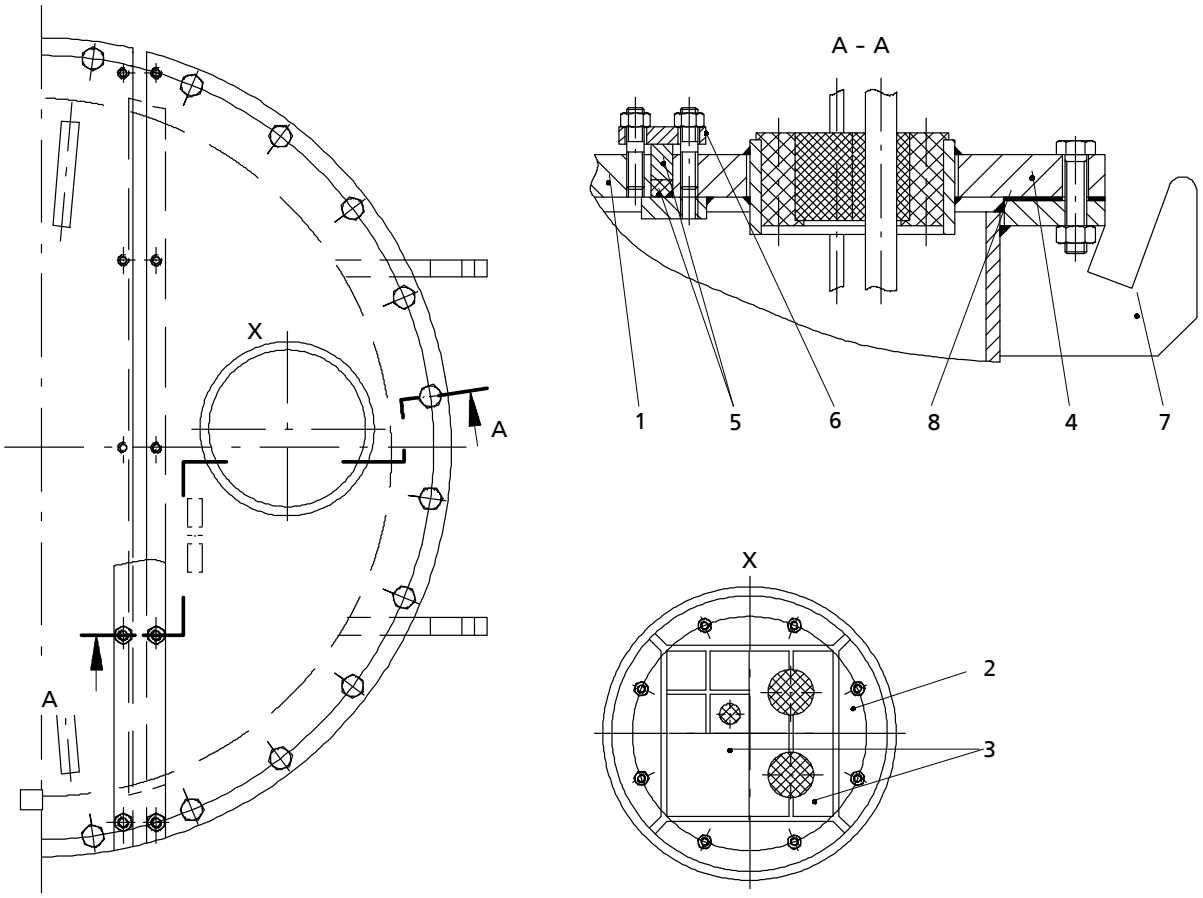

Fig. 13: Design variant with transit frame (up to 1 bar)

List of components

Part No.	Description
1	Discharge tube cover[44)]
2	Transit frame (cable gland)
3	Packing blocks and insert blocks
4	Cover segment with cable gland
5	Sealing of split cover with closed cell profile gasket
6	Gap cover
7	Support brackets for cover segment with cable glands
8	Gasket (e.g. rubber with fabric reinforcement)

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44) Discharge tube cover also available in single-piece design

General assembly drawings with list of components

Motor version UE, XE

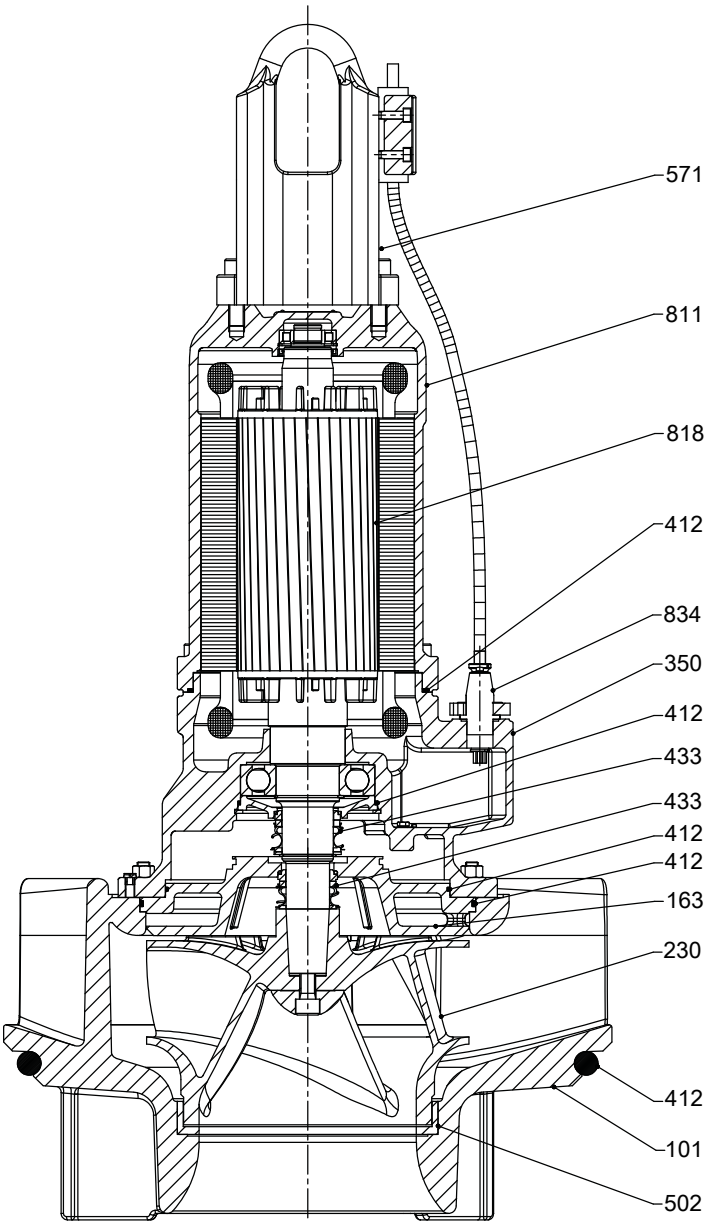

Fig. 14: General assembly drawing, motor version UE, XE

List of components

Part No.	Description	Part No.	Description
101	Pump casing	502	Casing wear ring
163	Discharge cover	571	Bail
230	Impeller	811	Motor housing
350	Bearing housing	818	Rotor
412	O-ring	834	Cable gland
433	Mechanical seal		

Motor version UN, XN

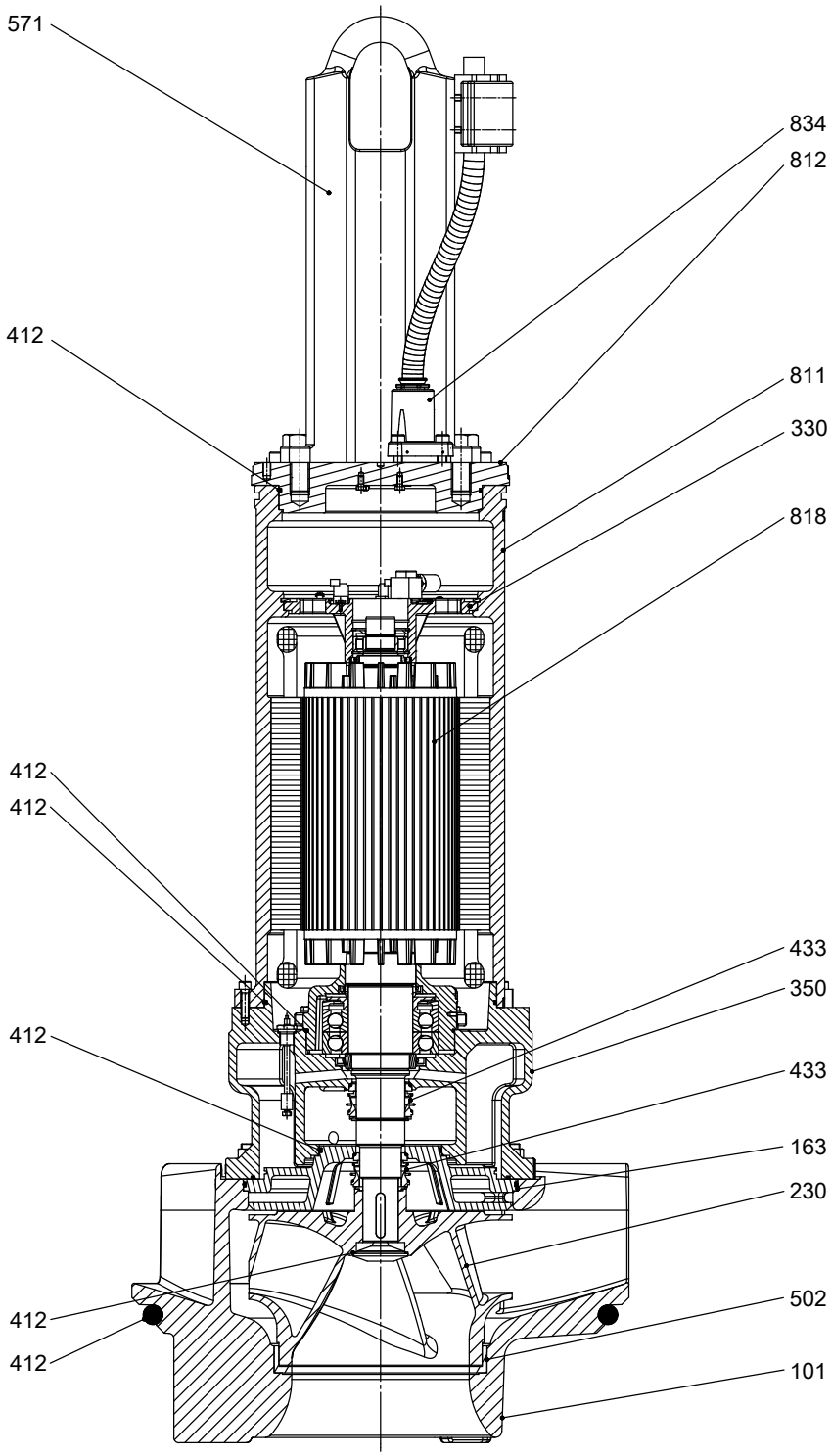

Fig. 15: General assembly drawing, motor version UN, XN

List of components

Part No.	Description	Part No.	Description
101	Pump casing	502	Casing wear ring
163	Discharge cover	571	Bail
230	Impeller	811	Motor housing
330	Bearing bracket	812	Motor housing cover
350	Bearing housing	818	Rotor
412	O-ring	834	Cable gland
433	Mechanical seal		

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