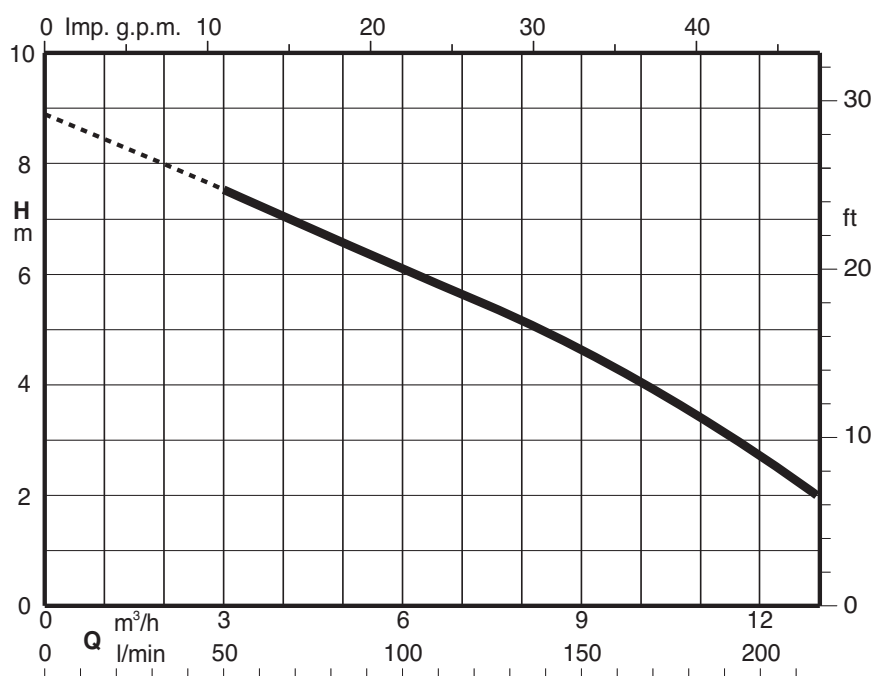


GM 5-9

Coverage chart $n \approx 2800$ rpm

Submersible drainage pump

GM 5-9



Construction

Submersible drainage pump constructed with composite polymers developed especially for this product.
Double shaft seal with oil chamber.
Compact in size yet delivering excellent performance, this pump is suitable for a wide range of applications, with flow rates of up to 217 liters per minute. It is equipped with a float switch for automatic start and stop.
With float switch for automatic start and stop.

Applications

For clean water with suspended solids up to a diameter of 5 mm.
For draining flooded rooms or tanks.
Water extraction from ponds, flowing streams, or pits for rainwater collection.
For irrigation.

Operating conditions

Maximum liquid temperature for prolonged use: 35 °C (with immersed motor).
Immersion depth: 5 m max.

Motor

2-pole induction motor, 50 Hz ($n \approx 2800$ 1/min).
Single-phase 230 V $\pm$ 10%, with thermal protector.
Incorporated capacitor
Cable H05RN-F, 3G0,75 mm²: with plug, length 10 m, 245IEC57, according to EN 60335-2-41 for pumps up to 10 kg.
Insulation class F.
Protection IP 68.

Materials

Components	Materials
Pump casing	PP+GF30
Impeller	PA66+GF30
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Pump jacket	PP+GF30
Filter	PP+GF30
Handle	PP+GF30
Shaft	Steel C45E EN 10083-2
Mechanical seal	Graphite/Ceramic/NBR

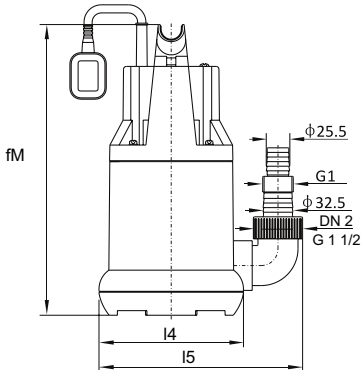
Performance $n \approx 2800$ rpm

Single-phase

					Q = Flow							
					m³/h	0	1,2	3	6	9	12	13
Model	230V	P2		P1	l/min		20	50	100	150	200	217
	A	kW	HP	kW	H (m) = Total head							
GM 5-9	2,4	0,33	0,45	0,55		8,9	8,2	7,6	6,1	4,7	2,8	2

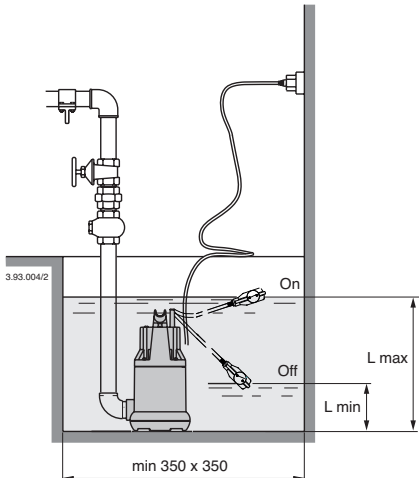
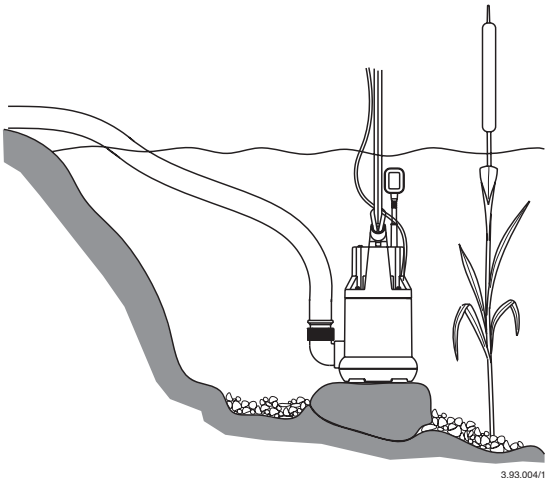
P1: Maximum power input.
P2: Rated motor power output.
H: Total head in m

Dimensions and weights



TYPE	DN2	mm					kg
		fM	I4	I5	Lmax	Lmin	Weight
GM 5-9	G 1 1/2	316	157	222	340	120	4.7

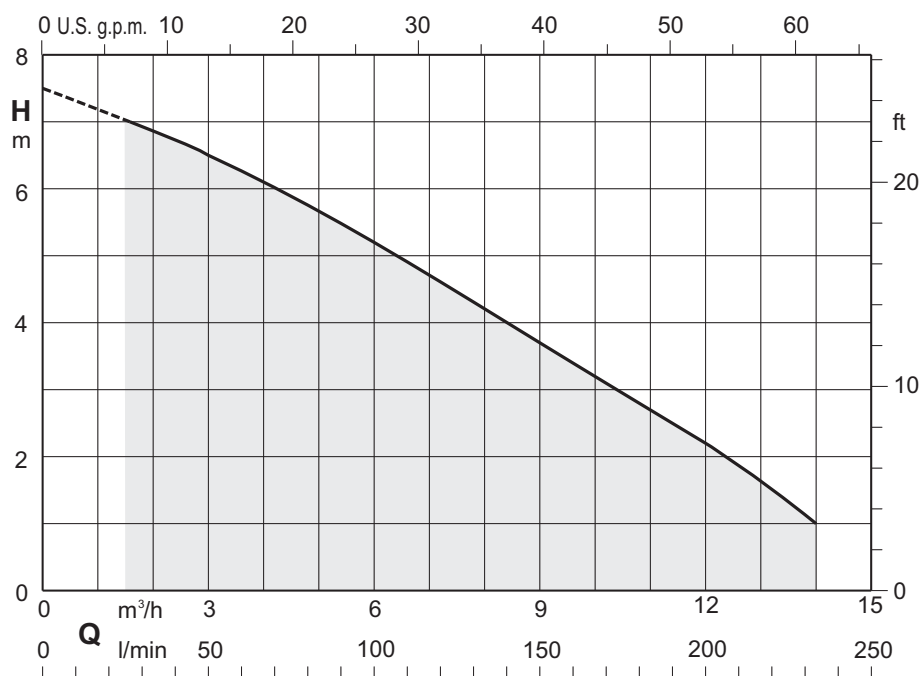
Examples of installations



GM 10-8



Coverage chart n $\approx$ 2900 rpm



Submersible drainage pump

GM 10-8



Construction

Submersible drainage pump constructed with composite polymers developed especially for this product.
Double shaft seal with oil chamber.
Small dimensions and great performance, for use in a wide variety of applications, for flow rates up to 233 litres per minute.
With float switch for automatic start and stop.

Applications

For clean or slightly dirty water.
For draining flooded rooms or tanks.
Extraction of water from ponds, flowing water or pits for collection of rain water.
For irrigation.
For use outdoor, the power supply cable shall have a length not less than 10 m.

Operating conditions

Maximum liquid temperature for prolonged use: 35 °C (with immersed motor).
Immersion depth: 5 m max (with suitable cable length).
Continuous duty.

Motor

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).
Single-phase 230 V $\pm 10\%$, with thermal protector.
Incorporated capacitor
H05RN-F cable, 3G0.75 mm², length 5 m, with CEI-UNEL 47166 plug.
Insulation class F.
Protection IP X8.
Double impregnation humidity-proof dry winding.

Materials

Components	Materials
Pump casing	PP+30FV Polypropylene
Cover	PP+30FV Polypropylene
Impeller	PPO-GF20 (Noryl)
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Jacket cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene (with frame made of AISI 304)
Shaft	Steel 1.4104 EN 10088 (AISI 430)
Mechanical seal	Alumina/Carbon/NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Special features on request

Other voltages.
Frequency 60 Hz (as per 60 Hz data sheet).
Other mechanical seal.
- Vertical magnetic float switch.
Without float switch.
With elbow on discharge port.

Designation

Example: GM 10-8
GM = Series
M = Single-phase
10 = Solids passage diameter
8 = Total head in m indoors

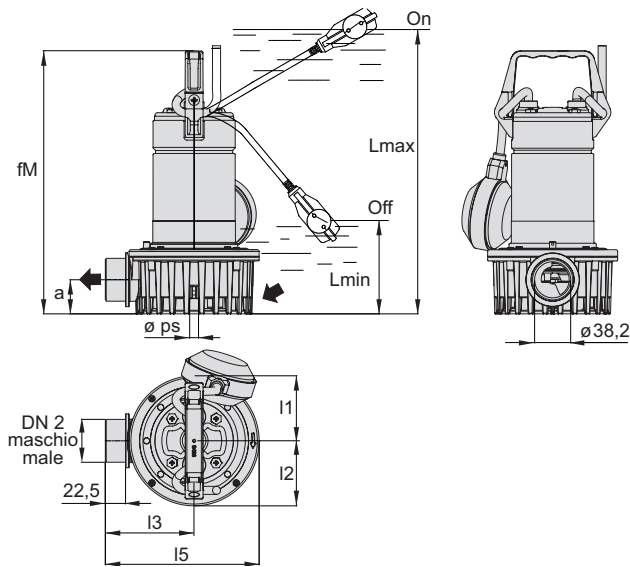
Coverage chart $n \approx 2900$ rpm

Single-phase

					Q = Flow							
					m³/h	0	1,2	3	6	9	12	14
Model	230V	P2		P1	l/min		20	50	100	150	200	233
	A	kW	HP	kW	H (m) = Total head							
GM 10-8	2	0,25	0,34	0,4		7,5	7	6,4	5,2	3,8	2,2	1

P1: Maximum power input.
P2: Rated motor power output.
H: Total head in m

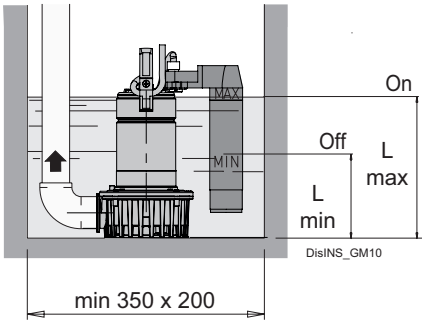
Dimensions and weights



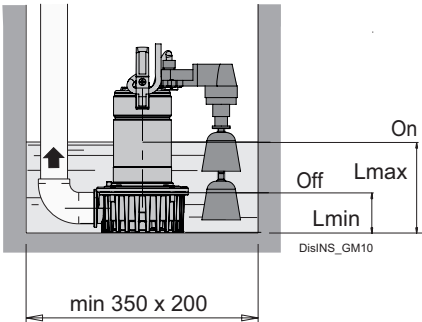
TYPE	ISO 228	mm								
	DN2	a	fM	I1	I2	I5	I5	Lmax	Lmin	ps
GM 10-8	G1 1/2	38	293.4	72.5	72.5	99	171,5	370	110	10

Installation examples with vertical magnetic float switch

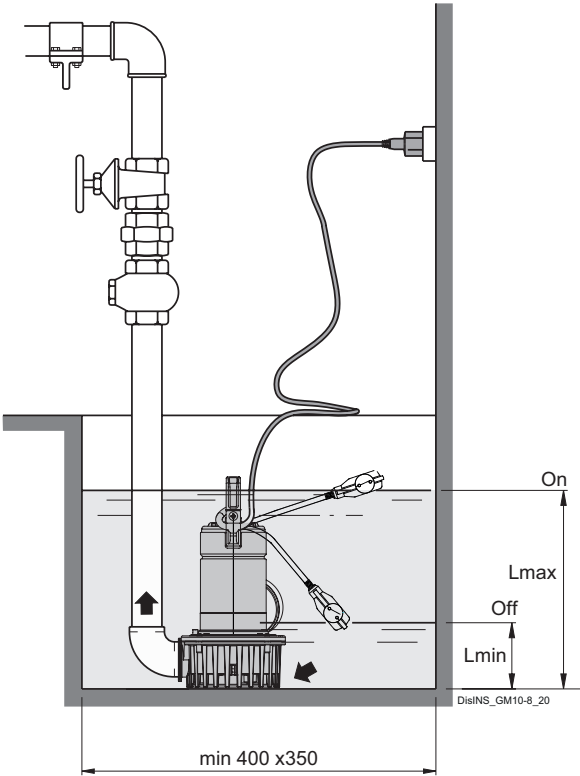
Examples of installations



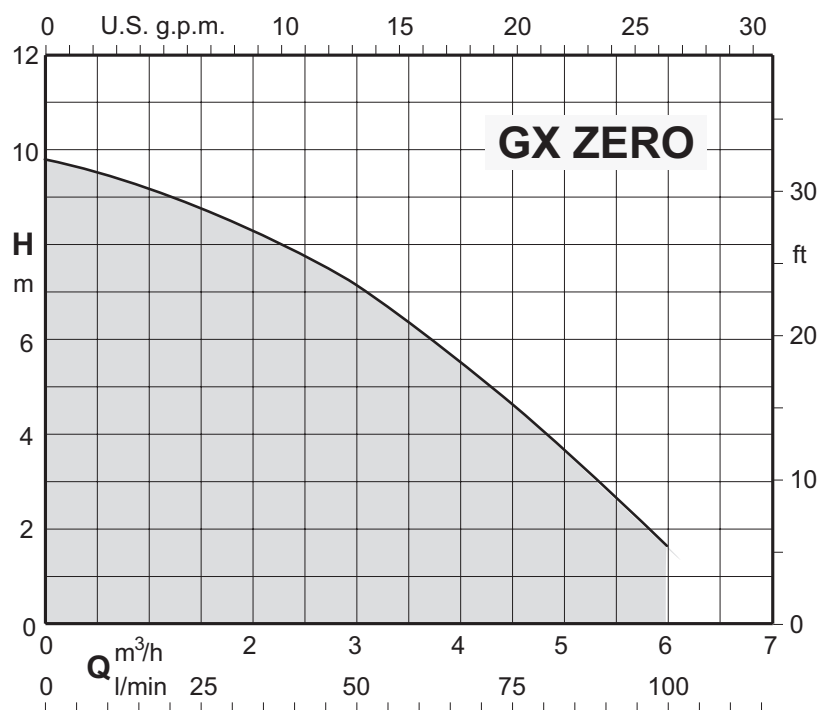
TYPE	ISO 228	mm								
	DN2	a	fM	I1	I2	I5	I5	Lmax	Lmin	ps
GM 10-8 GF	G1 1/2	38	293.4	72.5	72.5	99	171,5	218	128	10



TYPE	ISO 228	mm								
	DN2	a	fM	I1	I2	I5	I5	Lmax	Lmin	ps
GM 10-8 GFA	G1 1/2	38	293.4	72.5	72.5	99	171,5	142	62	10



GX ZERO

Coverage chart $n \approx 2900$ rpm

Submersible clean water pumps



Construction

Single-impeller submersible pumps in chrome-nickel stainless steel, with vertical delivery port and suction non-return valve.
Suction capability up to 1 mm from the bottom.
Motor cooled by the pumped water passing between the motor jacket and the external jacket.
Double shaft seal with oil chamber.
The pump is equipped with a suction non-return valve, which allows for manual relocation of the pump to various points within the room during operation. This feature ensures the pump can draw water down to 1 mm without losing its prime.

Applications

For clean water containing solids up to 3 mm grain size.
Draining flooded rooms or tanks.
Water extraction from ponds, flowing streams, or pits for rainwater collection.

Operating conditions

Liquid temperature up to 35° C.
Maximum immersion depth: 5 m.
Minimum manual emptying level 1 mm.
Continuous duty.

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).
GX ZERO: three-phase 230 V ± 10%;
400V ± 10%;
H05RN-F cable, 4G0.75 mm2, length 10 m, without plug.
GXM ZERO: single-phase 230 V ± 10%,
with thermal protector.
Incorporated capacitor.
H05RN-F cable, 3G0.75 mm2, length 10 m, with CEI-UNEL 47166 plug.
Insulation class F.
Protection IP X8 (for continuous immersion)
Double impregnation humidity-proof dry winding.
Constructed in accordance with EN 60034-1.

Special features on request

Other voltages.
Frequency 60 Hz (as per 60 Hz data sheet).
Other mechanical seal.
Motor suitable for operation with frequency converter.

Designation

Example: GXM ZERO
GX = Series
M = Single-phase (without three-phase indication)
ZERO = Pump type

Materials

Components	Materials
Pump casing	PA66-50FV (Noryl)
Filter	Polypropylene
Impeller	PPO-GF20 (Noryl)
valve	NBR / Chrome-nickel steel AISI 304
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Pump jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene
Shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Mechanical seal	Alumina-Carbon-NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Coverage chart n ≈ 2900 rpm

Three-phase

				Q = Flow						
				m³/h	0	1,2	2,25	3	4,5	6
Model	400V	P2		l/min		20	37,5	50	75	100
	A	kW	HP	H (m) = Total head						
GX ZERO	0,9	0,25	0,34		9,8	9	8,1	7,1	4,5	1,6

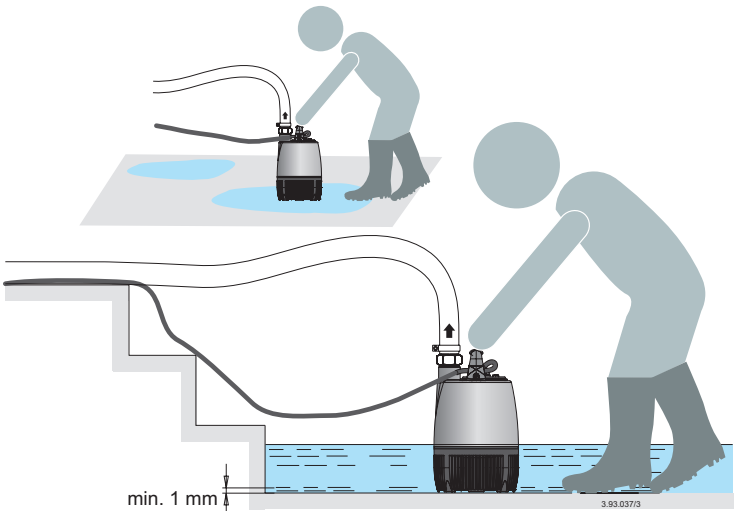
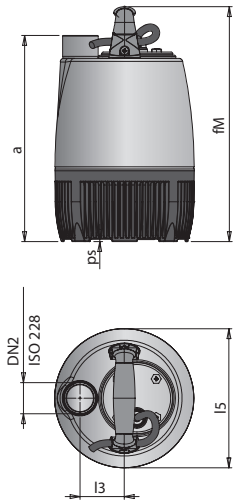
Single-phase

							Q = Flow						
							m³/h	0	1,2	2,25	3	4,5	6
Model	230V	Capacitor		P2		P1	l/min		20	37,5	50	75	100
	A	Vc	uf	kW	HP	kW	H (m) = Total head						
GXM ZERO	2,5	450	8	0,25	0,34	0,5		9,8	9	8,1	7,1	4,5	1,6

P1: Maximum power input.
P2: Rated motor power output.
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$. Total head in m

Dimensions and weights

Examples of installations



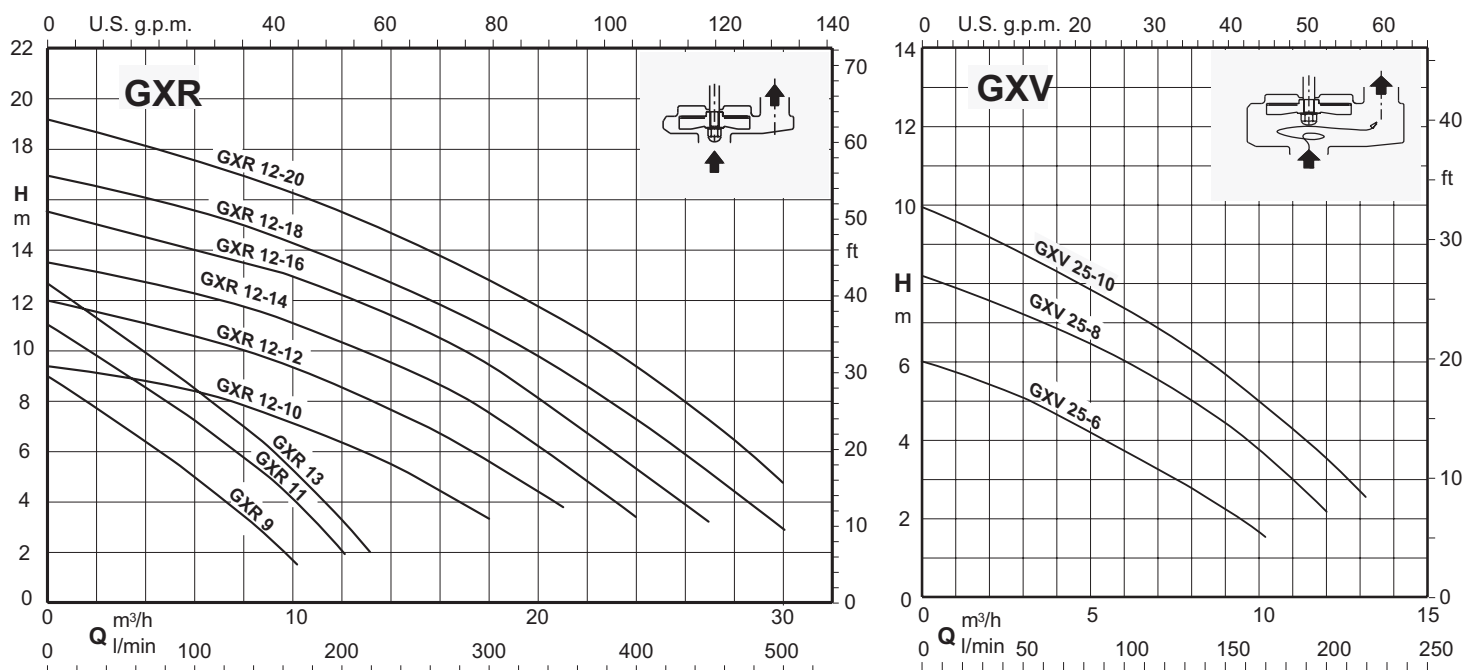
TYPE	ISO 228	mm					kg
	DN2	a	fM	l5	l5	ps	Weight
GXM ZERO	G 1 1/4	261	297	56	176	3	5.4

weights With cable length: 10 m

GXR, GXV



(patented system)

Coverage chart $n \approx 2900$ rpm

Stainless steel submersible pumps

GXR, GXV



Construction

Single-impeller submersible pumps in chrome-nickel stainless steel, with vertical delivery port.

GXR: with open impeller.

GXV: with free-flow (vortex) impeller.

Motor cooled by the pumped water passing between the motor jacket and the external jacket.

Double shaft seal with oil chamber.

Applications

GXR:

Clean water with suspended solids up to a diameter of 10 mm (12 mm for GXR 12..).

draining flooded rooms or tanks.

Extraction of water from ponds, streams or pits and for rainwater collection.

GXV:

For clean or slightly dirty water, containing solids up to 25 mm grain size.

Particularly suitable for liquids with a high solid content.

For outdoor use a power supply cable of not less than 10 m should be used in accordance EN 60 335-2-41.

Operating conditions

Liquid temperature up to 50°C (40°C for GXR 12..).

Maximum immersion depth: 5 m.

Minimum water level with float: GXR = 70 mm, GXV = 130 mm.

Minimum water level manual operation: GXR = 15 mm, GXV = 30 mm.

Continuous duty.

Motor

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).

GXR, GXV: three-phase 230 V $\pm$ 10%;
400V $\pm$ 10%;

GXRM, GXVM: single-phase 230 V $\pm$ 10%,
with float switch and thermal protector.
Incorporated capacitor.

Insulation class F.

Protection IP X8 (for continuous immersion)

Double impregnation humidity-proof dry winding.

Constructed in accordance with EN 60034-1.

Special features on request

Other voltages.

Frequency 60 Hz (as per 60 Hz data sheet).

Other mechanical seal.

Cable length 10 m (20 m for GXR 12..).

Vertical magnetic float switch.

Motor suitable for operation with frequency converter.

Three-phase pumps with built-in switch and float.

Designation

Example: GXVLM 25-10

GX = Series

V = Vortex impeller R with open impeller.

L = AISI 316L version (no code = AISI 304 version)

M = Single-phase (no indication: three-phase)

25 = Solids passage diameter

10 = Total head in m indoors

Materials

Components	GX materials... AISI 304	Materials GXVL 25-10 AISI 316
Pump casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Filter	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Impeller	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Pump jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Handle	Polypropylene	Polypropylene
Shaft	1.4305 EN 10088 steel (AISI 303) 1.4301 EN 10088 steel (AISI 304) for GRR 12	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Mechanical seal	Alumina-Carbon-NBR	Alumina-Carbon-NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery	Oil for food/pharmaceutical machinery

Pump type	Power supply cable				Float switch	
	Cable material	Section	length	plug CEI-UNEL 47166	Cable material	Section
GXRM 9	H05RN-F	3G0,75 mm ²	5 m	YES	H07RN-F	3G1 mm ²
GXVM 25-6	H05RN-F	3G0,75 mm ²	5 m	YES	H07RN-F	3G1 mm ²
GXRM 11, 13	H07RN-F	3G1 mm ²	5 m	YES	H07RN-F	3G1 mm ²
GXVM 25-8, 25-10	H07RN-F	3G1 mm ²	5 m	YES	H07RN-F	3G1 mm ²
GXRM 12-10,12,14,16	H07RN-F	3G1 mm ²	10 m	YES	H07RN-F	3G1 mm ²
GXRM 12-18	H07RN-F	3G1,5 mm ²	10 m	YES	H07RN-F	3G1 mm ²
GXRM 12-20	H07RN-F	3G2,5 mm ²	10 m	YES	H07RN-F	3G1 mm ²
GXR 9	H05RN-F	4G0,75 mm ²	5 m	NO	NO	-
GXV 25-6	H05RN-F	4G0,75 mm ²	5 m	NO	NO	-
GXR 11, 13	H07RN-F	4G1 mm ²	5 m	NO	NO	-
GXV 25-8, 25-10	H07RN-F	4G1 mm ²	5 m	NO	NO	-
GXR 12	H07RN-F	4G1 mm ²	10 m	NO	NO	-

GXR, GXV



Coverage chart n ≈ 2900 rpm

Three-phase

				Q = Flow										
				m³/h	0	1,2	3	4,5	6	7,5	9	10,2	12	13,2
Model	400V	P2		l/min		20	50	75	100	125	150	170	200	220
	A	kW	HP	H (m) = Total head										
GXR 9	0,9	0,25	0,34		9	8,3	7	6	4,8	3,6	2,5	1,7	-	-
GXR 11	1,3	0,37	0,5		11	10,4	9,5	8,5	7,5	6,5	5,3	4,2	2,2	-
GXR 13	1,6	0,45	0,6		12,7	11,7	10,7	9,7	8,5	7,3	6,3	5,2	3,2	2

Single-phase

							Q = Flow											
							m³/h	0	1,2	3	4,5	6	7,5	9	10,2	12	13,2	
Model	230V	Capacitor		P2		P1	l/min		20	50	75	100	125	150	170	200	220	
	A	Vc	uf	kW	HP	kW	H (m) = Total head											
GXR 9	2,5	450	8	0,25	0,34	0,5			9	8,3	7	6	4,8	3,6	2,5	1,7	-	-
GXR 11	3,5	450	12,5	0,37	0,5	0,7			11	10,4	9,5	8,5	7,5	6,5	5,3	4,2	2,2	-
GXR 13	4,5	450	16	0,45	0,6	0,95		12,7	11,7	10,7	9,7	8,5	7,3	6,3	5,2	3,2	2	

Three-phase

Model				Q = Flow										
				m³/h	0	1,2	3	4,5	6	7,5	9	10,2	12	13,2
				l/min		20	50	75	100	125	150	170	200	220
				H (m) = Total head										
	400V	P2			6	5,7	5,2	4,5	3,8	3	2,2	1,5	-	-
	A	kW	HP		8,2	7,8	7,2	6,7	6,1	5,4	4,5	3,6	2,2	-

Single-phase

							Q = Flow											
							m³/h	0	1,2	3	4,5	6	7,5	9	10,2	12	13,2	
Model	230V	Capacitor		P2		P1	l/min		20	50	75	100	125	150	170	200	220	
	A	Vc	uf	kW	HP	kW	H (m) = Total head											
GXVM 25-6	2,5	450	8	0,25	0,34	0,5			6	5,7	5,2	4,5	3,8	3	2,2	1,5	-	-
GXVM 25-8	3,5	450	12,5	0,37	0,5	0,7			8,2	7,8	7,2	6,7	6,1	5,4	4,5	3,6	2,2	-
GXVM 25-10	4,5	450	16	0,45	0,6	0,95		10	9,5	8,7	8	7,3	6,5	5,7	4,9	3,7	2,6	

Three-phase

				Q = Flow										
				m³/h	0	1,2	3	4,5	6	7,5	9	10,2	12	13,2
Model	400V	P2		l/min		20	50	75	100	125	150	170	200	220
	A	kW	HP	H (m) = Total head										
GXVL 25-10	1,6	0,45	0,6		10	9,5	8,7	8	7,3	6,5	5,7	4,9	3,7	2,6

Single-phase

							Q = Flow											
							m³/h	0	1,2	3	4,5	6	7,5	9	10,2	12	13,2	
Model	230V	Capacitor		P2		P1	l/min		20	50	75	100	125	150	170	200	220	
	A	Vc	uf	kW	HP	kW	H (m) = Total head											
GXLVLM 25-10	4,5	450	16	0,45	0,6	0,95			10	9,5	8,7	8	7,3	6,5	5,7	4,9	3,7	2,6

P1: Maximum power input.**P2:** Rated motor power output.Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$. Total head in m

GXR, GXV



Coverage chart n ≈ 2900 rpm

Three-phase

				Q = Flow												
				m³/h	0	3	6	9	12	15	18	21	24	27	30	
Model	400V	P2		l/min		50	100	150	200	250	300	350	400	450	500	
	A	kW	HP	H (m) = Total head												
GXR 12-10	1,5	0,45	0,6			9,3	9	8,3	7,5	6,3	5	3,3	-	-	-	-
GXR 12-12	1,9	0,55	0,75			12	11,3	10,6	9,6	8,5	7,2	5,6	3,7	-	-	-
GXR 12-14	2,2	0,75	1		13,5	13	12,2	11,4	10,4	9	7,5	5,6	3,3	-	-	
GXR 12-16	2,8	0,9	1,2		15,5	14,7	14	13,2	12,2	11	9,4	7,5	5,4	3,2	-	
GXR 12-18	3,3	1,1	1,5		17	16,3	15,5	14,6	13,5	12,3	10,8	9,2	7,3	5,2	3	
GXR 12-20	4	1,5	2		19,2	18,4	17,5	16,5	15,5	14,2	12,8	11,2	9,3	7,2	4,7	

Single-phase

							Q = Flow											
							m³/h	0	3	6	9	12	15	18	21	24	27	30
Model	230V	Capacitor		P2		P1	l/min		50	100	150	200	250	300	350	400	450	500
	A	Vc	uf	kW	HP	kW	H (m) = Total head											
GXRM 12-10	4	450	12,5	0,45	0,6	0,85		9,3	9	8,3	7,5	6,3	5	3,3	-	-	-	-
GXRM 12-12	5,2	450	16	0,55	0,75	1,1		12	11,3	10,6	9,6	8,5	7,2	5,6	3,7	-	-	-
GXRM 12-14	6	450	20	0,75	1	1,3		13,5	13	12,2	11,4	10,4	9	7,5	5,6	3,3	-	-
GXRM 12-16	7,4	450	25	0,9	1,2	1,6		15,5	14,7	14	13,2	12,2	11	9,4	7,5	5,4	3,2	-
GXRM 12-18	9,5	450	30	1,1	1,5	2		17	16,3	15,5	14,6	13,5	12,3	10,8	9,2	7,3	5,2	3
GXRM 12-20	13	450	35	1,5	2	2,2		19,2	18,4	17,5	16,5	15,5	14,2	12,8	11,2	9,3	7,2	4,7

P1: Maximum power input.

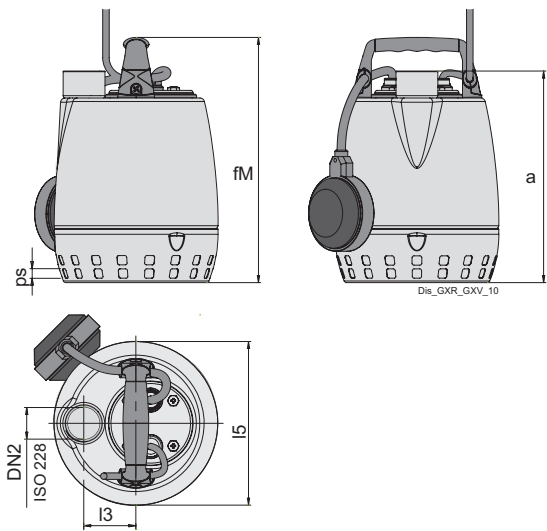
P2: Rated motor power output.

Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$. Total head in m

GXR, GXV



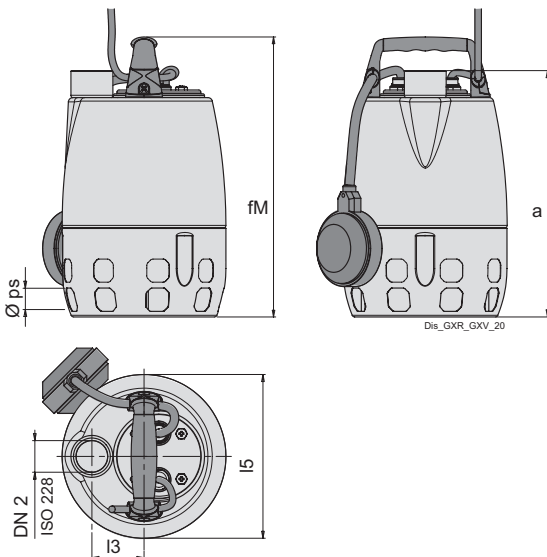
Dimensions and weights



TYPE	ISO 228	mm					kg
	DN2	a	fM	l5	l5	ps	Weight
GXR 9	G 1 1/4	230	265	56	176	10	5.2
GXR 11	G 1 1/4	265	300	56	176	10	6.5
GXR 13	G 1 1/4	265	300	56	176	10	7.2

TYPE	ISO 228	mm					kg
	DN2	a	fM	l5	l5	ps	Weight
GXR 9	G 1 1/4	230	265	56	176	10	5.3
GXR 11	G 1 1/4	265	300	56	176	10	6.5
GXR 13	G 1 1/4	265	300	56	176	10	7.2

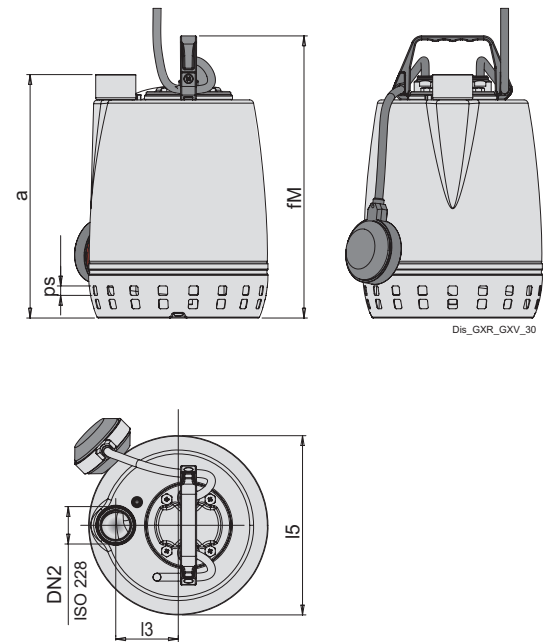
weights with cable length: 5 m



TYPE	ISO 228	mm					kg
	DN2	a	fM	l5	l5	ps	Weight
GXR 25-6	G1 1/4	267	302	56	176	25	5.3
GXR 25-8	G1 1/4	302	337	56	176	25	6.6
GXR 25-10	G1 1/4	302	337	56	176	25	7.3
GXR 25-10	G1 1/4	302	337	56	176	25	7

TYPE	ISO 228	mm					kg
	DN2	a	fM	l5	l5	ps	Weight
GXR 25-6	G1 1/4	267	302	56	176	25	5.3
GXR 25-8	G1 1/4	302	337	56	176	25	6.8
GXR 25-10	G1 1/4	302	337	56	176	25	7.3
GXR 25-10	G1 1/4	302	337	56	176	25	7

weights with cable length: 5 m

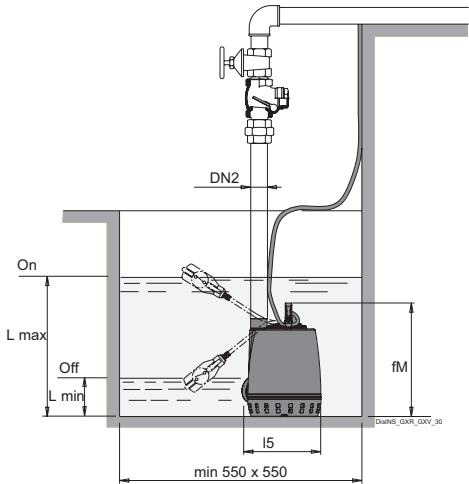
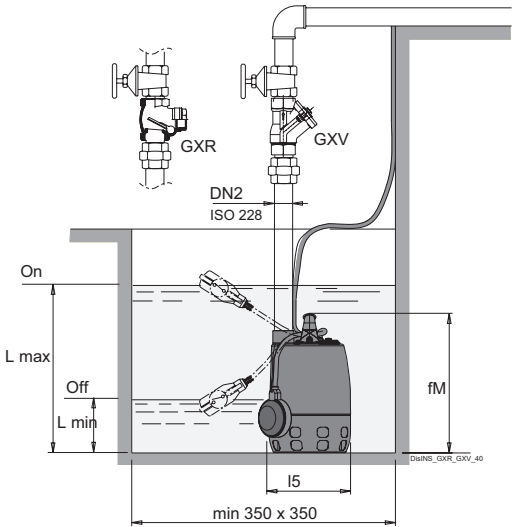


TYPE	ISO 228	mm					kg
	DN2	a	fM	l5	l5	ps	Weight
GXR 12-10	G 1 1/2	310	360	80	228	12	10.3
GXR 12-12	G 1 1/2	325	375	80	228	12	11.4
GXR 12-14	G 1 1/2	350	400	80	228	12	12.5
GXR 12-16	G 1 1/2	350	400	80	228	12	12.6
GXR 12-18	G 1 1/2	370	420	80	228	12	14.3
GXR 12-20	G 1 1/2	400	450	80	228	12	15.5

TYPE	ISO 228	mm					kg
	DN2	a	fM	l5	l5	ps	Weight
GXR 12-10	G 1 1/2	310	360	80	228	12	11.3
GXR 12-12	G 1 1/2	325	375	80	228	12	12.5
GXR 12-14	G 1 1/2	350	400	80	228	12	13.7
GXR 12-16	G 1 1/2	350	400	80	228	12	14.5
GXR 12-18	G 1 1/2	370	420	80	228	12	16.4
GXR 12-20	G 1 1/2	400	450	80	228	12	19

weights With cable length: 10 m

Examples of installations

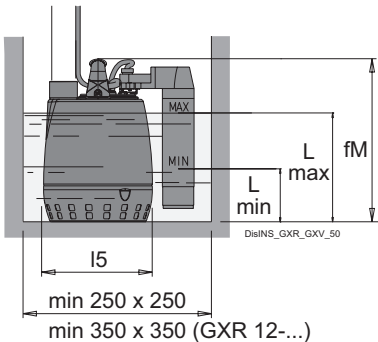
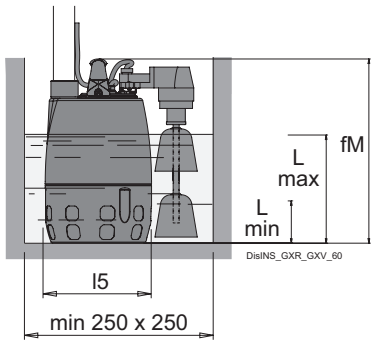


TYPE	ISO 228	mm				kg
	DN2	fM	I5	Lmax	Lmin	Weight
GXRM 9	G 1 1/4	265	176	340	70	5.3
GXRM 11	G 1 1/4	300	176	340	70	6.5
GXRM 13	G 1 1/4	300	176	340	70	7.2

TYPE	ISO 228	mm				kg
	DN2	fM	I5	Lmax	Lmin	Weight
GXVM 25-6	G1 1/4	302	176	375	130	5.3
GXVM 25-8	G1 1/4	337	176	375	130	6.8
GXVM 25-10	G1 1/4	337	176	375	130	7.3
GXVLM 25-10	G1 1/4	337	176	375	130	7

TYPE	ISO 228	mm				kg
	DN2	fM	I5	Lmin	ps	Weight
GXRM 12-10	G 1 1/2	360	228	175	12	11.3
GXRM 12-12	G 1 1/2	375	228	190	12	12.5
GXRM 12-14	G 1 1/2	400	228	215	12	13.7
GXRM 12-16	G 1 1/2	400	228	215	12	14.5
GXRM 12-18	G 1 1/2	420	228	235	12	16.4
GXRM 12-20	G 1 1/2	450	228	265	12	19

Installation examples with vertical magnetic float switch



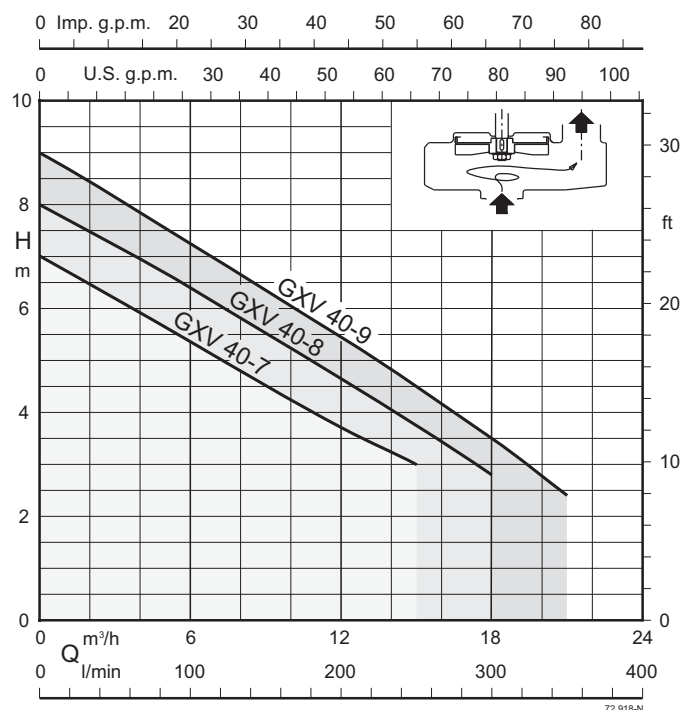
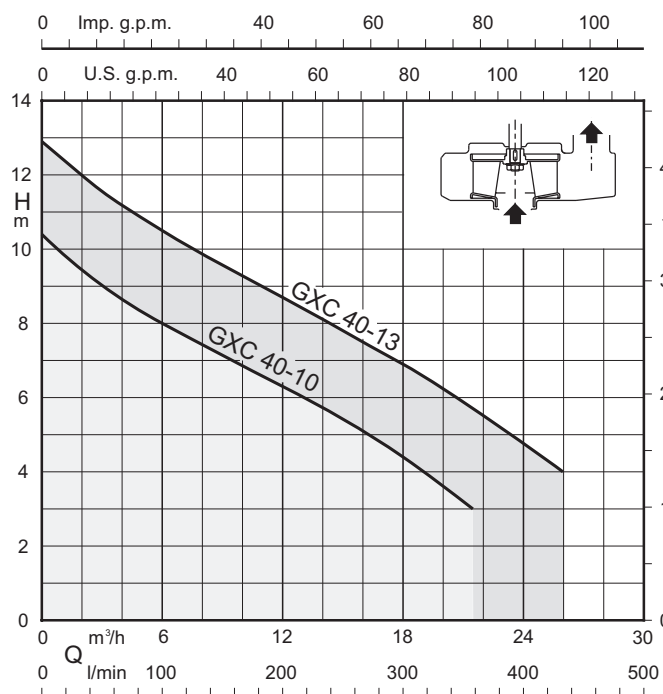
TYPE	DN2	mm				kg
	DN2	fM	I5	Lmax	Lmin	Weight
GXVM 25-6 GFA	G1 1/4	302	176	150	70	5.3
GXVM 25-8 GFA	G1 1/4	337	176	185	70	6.6
GXVM 25-10 GFA	G1 1/4	337	176	185	70	7.3

TYPE	DN2	mm				kg
	DN2	fM	I5	Lmax	Lmin	Weight
GXRM 9 GF	G 1 1/4	265	176	190	100	5.5
GXRM 11 GF	G 1 1/4	300	176	225	135	6.9
GXRM 13 GF	G 1 1/4	300	176	225	135	7.4
GXRM 12-10 GF	G 1 1/2	360	228	180	270	11.5
GXRM 12-12 GF	G 1 1/2	375	228	195	285	12.6
GXRM 12-14 GF	G 1 1/2	400	228	220	310	13.9
GXRM 12-16 GF	G 1 1/2	400	228	220	310	15.3

GX 40



(patented system)

Coverage chart $n \approx 2900$ rpm

Stainless steel submersible pumps
sewage and drainage

GX 40



Construction

Single-impeller submersible pumps in chrome-nickel stainless steel, with vertical delivery port.

GXC: with two-passage impeller.

GXV: with free-flow (vortex) impeller

Double shaft seal with interposed oil chamber.

Applications

Clean and dirty water, also containing solids up to 35 mm grain size.

The GXV free-flow impeller construction is particularly suitable for liquids with a high solid content or with filamentous particles.

This construction (with smooth surfaces in rolled-stainless steel and easy access for cleaning) is also suitable for certain uses in the food industry.

Operating conditions

Liquid temperature up to 35° C.

Maximum immersion depth: 5 m.

Maximum immersion depth: 5 m.

Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).

GXC, GXV: three-phase 230 V $\pm$ 10%;

400V $\pm$ 10%;

H07RN-F cable, 3G1 mm², length 10 m, with CEI-UNEL 74166 plug.

GXRM, GXVM: single-phase 230 V $\pm$ 10%,

with float switch and thermal protector.

Incorporated capacitor.

Cable: H07RN-F, 3G1 mm², length 10 m, with plug CEI-

UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion)

Triple impregnation humidity-proof dry winding.

Constructed in accordance with EN 60034-1, EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.

Frequency 60 Hz (as per 60 Hz data sheet).

Other mechanical seal.

Cable length 20 m.

Motor suitable for operation with frequency converter.

Three-phase pumps with incorporated float switch.

Designation

Example: GXCM 40-7

GX = Series

C = Two-passage impeller

V = Free-flow impeller (vortex impeller)

M = Single-phase (without three-phase indication)

40 = Delivery port diameter in mm

7 = Total head in m indoors

Materials

Components	Materials
Pump casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Impeller	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Jacket cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene (with frame 1.4301 EN 10088 (AISI 304))
Shaft	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Upper mechanical seal	Ceramic / Carbon / NBR
Lower mechanical seal	Ceramic / Carbon / NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Coverage chart n ≈ 2900 rpm

Three-phase

				Q = Flow										
				m³/h	0	3	6	9	12	15	18	21	24	26
Model	400V	P2		l/min		50	100	150	200	250	300	350	400	433
	A	kW	HP	H (m) = Total head										
GXC 40-10	1,6	0,55	0,75		10,4	9	8	7,1	6,3	5,4	4,4	3,2	-	-
GXC 40-13	2,3	0,9	1,2		12,9	11,6	10,5	9,5	8,7	7,8	6,9	5,9	4,7	4

Three-phase

Model				Q = Flow											
				m³/h	0	3	6	9	12	15	18	21			
				l/min		50	100	150	200	250	300	350			
				H (m) = Total head											
				A	kW	HP									
GXV 40-7				1,6	0,55	0,75		7	6,2	5,4	4,6	3,7	3	-	-
GXV 40-8				2,2	0,75	1		8	7,2	6,4	5,5	4,6	3,7	2,8	-
GXV 40-9				2,3	0,9	1,2		9	8,1	7,2	6,3	5,4	4,5	3,5	2,4

Single-phase

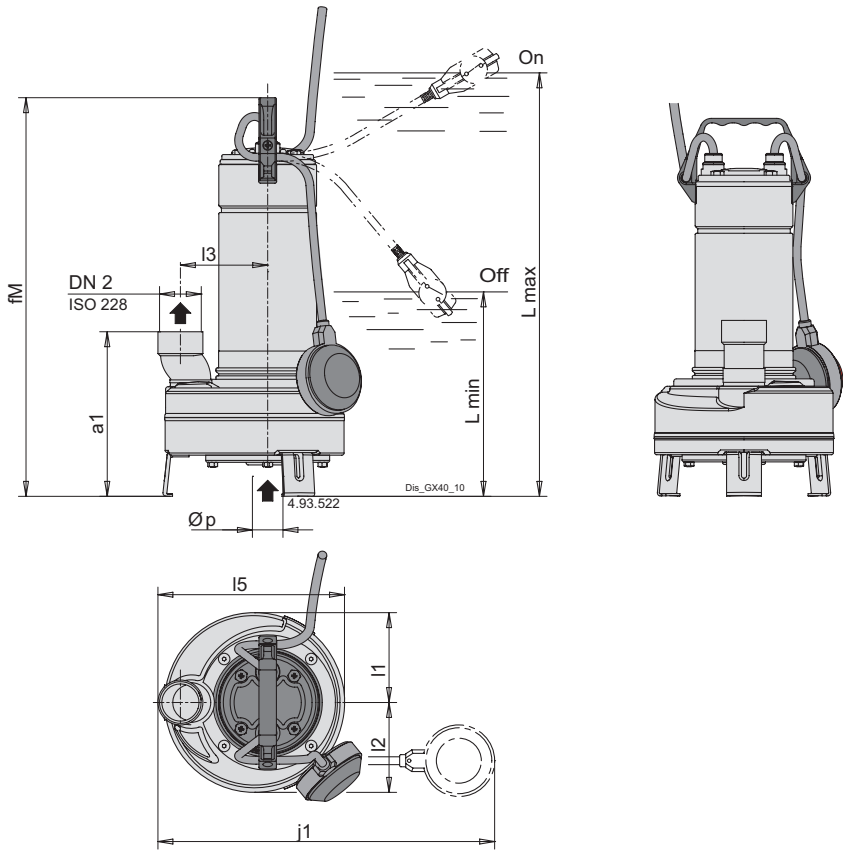
							Q = Flow										
							m³/h	0	3	6	9	12	15	18	21	24	26
Model	230V	Capacitor		P2		P1	l/min		50	100	150	200	250	300	350	400	433
	A	Vc	uf	kW	HP	kW	H (m) = Total head										
GXCM 40-10	4,6	450	16	0,55	0,75	1		10,4	9	8	7,1	6,3	5,4	4,4	3,2	-	-
GXCM 40-13	6,6	450	25	0,9	1,2	1,45		12,9	11,6	10,5	9,5	8,7	7,8	6,9	5,9	4,7	4

Single-phase

Model							Q = Flow								
							m³/h	0	3	6	9	12	15	18	21
									l/min	50	100	150	200	250	300
230V	Capacitor		P2		P1	H (m) = Total head									
A	Vc	uf	kW	HP	kW										
GXVM 40-7	4,6	450	16	0,55	0,75	1		7	6,2	5,4	4,6	3,7	3	-	-
GXVM 40-8	5,4	450	25	0,75	1	1,1		8	7,2	6,4	5,5	4,6	3,7	2,8	-
GXVM 40-9	6	450	25	0,9	1,2	1,3		9	8,1	7,2	6,3	5,4	4,5	3,5	2,4

P1: Maximum power input.
P2: Rated motor power output.
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$. Total head in m

Dimensions and weights



TYPE	ISO 228	mm							kg
	DN2	a1	fM	l1	l2	l5	l5	p	Weight
GXV 40-7	G1 1/2	190	433	103	103	100	215	35	10
GXV 40-8	G1 1/2	190	458	103	103	100	215	35	11
GXV 40-9	G1 1/2	190	458	103	103	100	215	35	11.1

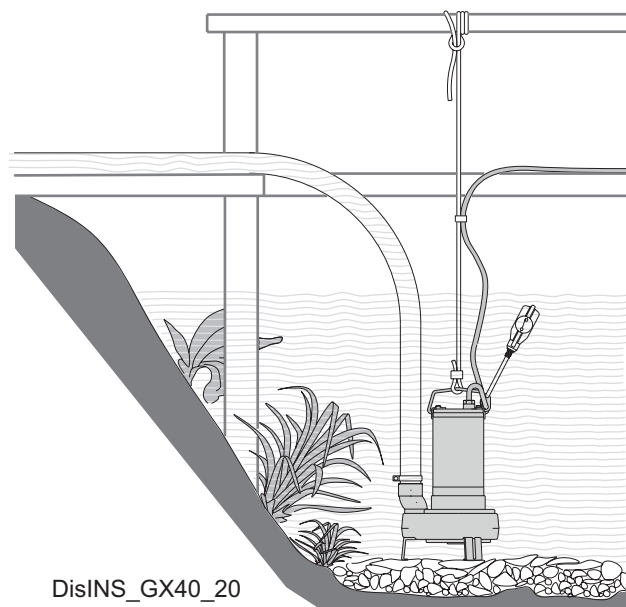
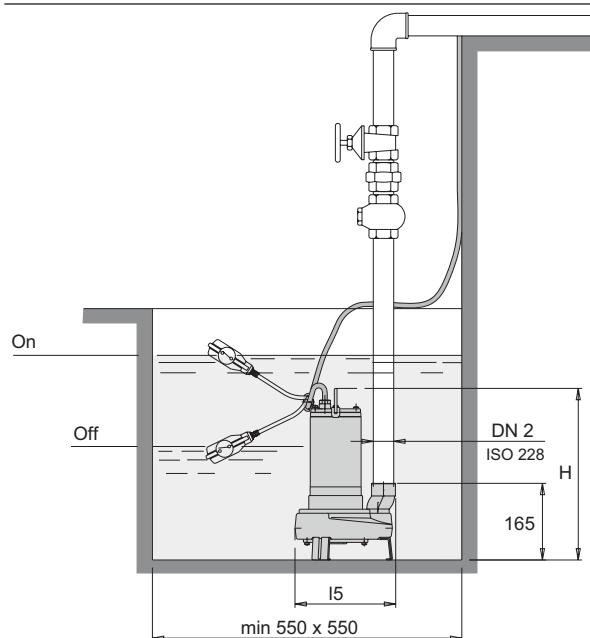
TYPE	ISO 228	mm										kg
	DN2	a1	fM	j1	l1	l2	l5	l5	Lmax	Lmin	p	Weight
GXVM 40-7	G1 1/2	190	433	405	103	103	100	215	508	248	35	11.2
GXVM 40-8	G1 1/2	190	458	405	103	103	100	215	533	273	35	13
GXVM 40-9	G1 1/2	190	458	405	103	103	100	215	533	273	35	13

TYPE	ISO 228	mm							kg
	DN2	a1	fM	l1	l2	l5	l5	p	Weight
GXC 40-10	G1 1/2	190	433	103	103	100	215	35	11
GXC 40-13	G1 1/2	190	458	103	103	100	215	35	11.3

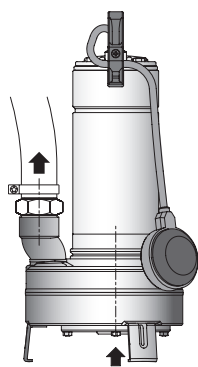
TYPE	ISO 228	mm										kg
	DN2	a1	fM	j1	l1	l2	l5	l5	Lmax	Lmin	p	Weight
GXCM 40-10	G1 1/2	190	433	405	103	103	100	215	508	248	35	11.5
GXCM 40-13	G1 1/2	190	458	405	103	103	100	215	533	273	35	13.3

weights With cable length: 10 m

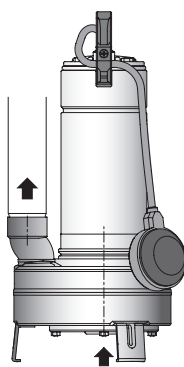
Examples of installations



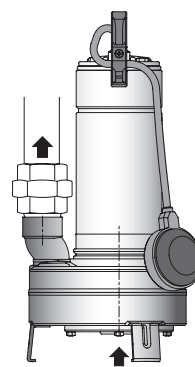
Example of connection



Pump with hoesetail seat and clamp (locally available)



Pump with pipe screwed into the delivery port



Pump with pipe and union (locally available)

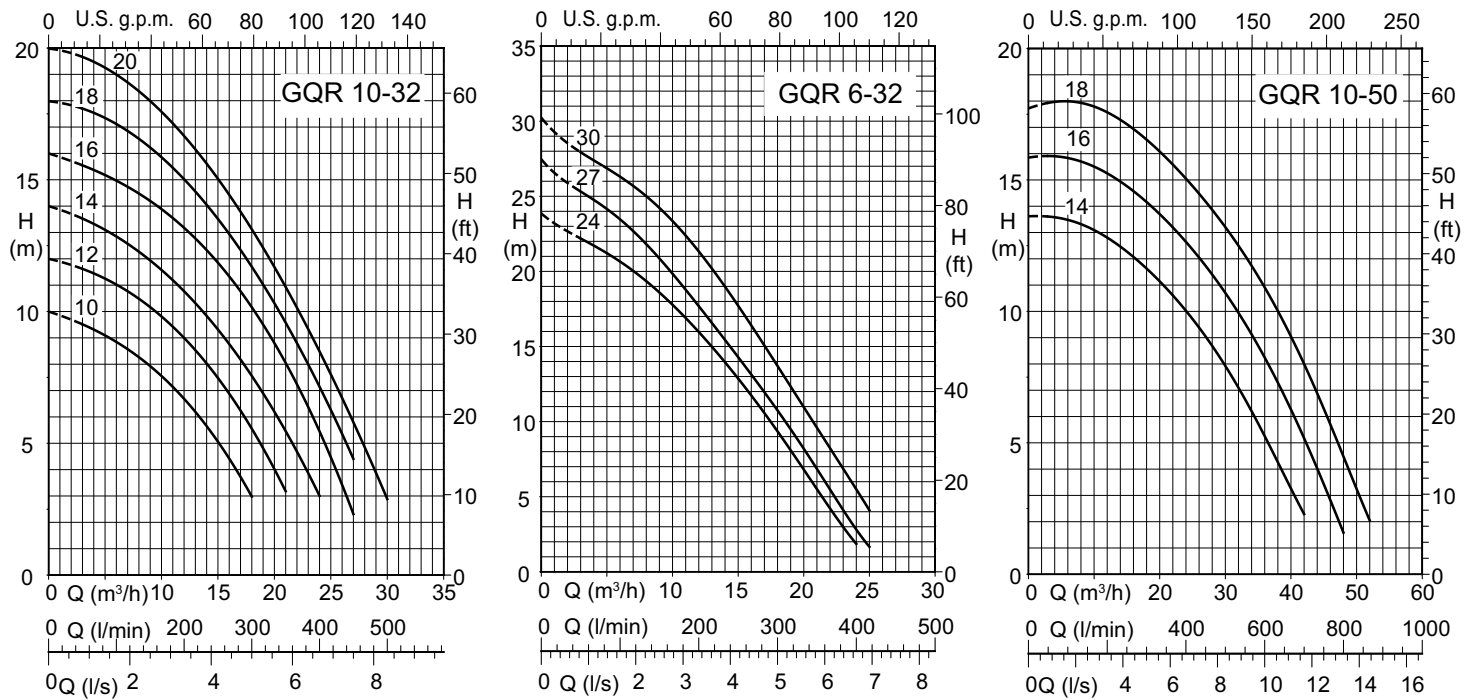
GQR



(patented system)



Coverage chart $n \approx 2900$ rpm



Submersible drainage pumps

Construction

Single-impeller submersible drainage pump, with open impeller.

GQR: with threaded vertical delivery port (G1 1/2).

GQR 10 32: with horizontal flanged and threaded delivery port (DN 32, PN 6 - G 1 1/2).

GQR 10 50: with horizontal flanged and threaded delivery port (DN 50, PN 10 - G 2).

Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

For clean water with suspended solids up to a diameter of 6, 10 mm.

Emptying of flooded rooms or tanks.

Extraction of water from ponds, flowing water or pits for collection of rain water.

For irrigation purposes.

Operating conditions

Liquid temperature up to 35° C.

Maximum immersion depth: 5 m.

Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50Hz (n ≈ 2900 1/min).

GQR: three-phase 230V ± 10%

400V ± 10%

Cable: H07RN-F, 4G1 mm², length 10 m, without plug.

GQRM: single-phase 230V ± 10%

with float switch and thermal protector.

Incorporated capacitor

Cable: H07RN-F, 3G1 mm² (3G1x1,5 mm² for 1.5 kW), length

10 m, with plug CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion).

Triple impregnation humidity-proof dry winding

- Constructed in accordance with EN 60034-1

EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.

Frequency 60 Hz (as per 60 Hz data sheet).

Other mechanical seal.

Cable length 20 m.

With switch and fixed float (magnetic).

Motor set up for operation with inverter.

Three-phase pumps with built-in switch and float.

Designation

GQRM 10 32-12

GQ = Series

R = with open impeller.

M = Single-phase (no indication: three-phase)

10 = Free passage

32 = Delivery port diameter in mm (value for flanged pumps only)

12 = Max. head

Materials

Components	Materials
Pump casing	Cast iron GJL 200 EN 1561
Impeller	Cast iron GJL 200 EN 1561
Filter	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Jacket cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene (with frame made of 1.4301 EN 10088 (AISI 304)
Shaft	Chrome-nickel steel 1.4301 EN 10088 (AISI 304) for GQR 6-32.. (AISI 303)
Upper mechanical seal	Ceramic / Carbon / NBR
Lower mechanical seal	Ceramic / Carbon / NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Coverage chart n ≈ 2900 rpm
Three-phase

				Q = Flow											
				m³/h	0	3	6	9	12	15	18	21	24	27	30
Model	400V	P2		l/min		50	100	150	200	250	300	350	400	450	500
	A	kW	HP	H (m) = Total head											
GQR 10-10	1,2	0,45	0,6		10	9,5	8,8	8	6,7	5	3	-	-	-	-
GQR 10-12	1,4	0,55	0,75		12	11,6	11	10,2	9	7,5	5,5	3,2	-	-	-
GQR 10-14	1,6	0,75	1		14	13,5	12,8	12	10,8	9,3	7,5	5,5	3	-	-
GQR 10-16	2,3	0,9	1,2		16	15,5	15	14,2	13,2	11,8	10,2	8	5,5	2,3	-
GQR 10-18	2,8	1,1	1,5		18	17,5	17	16,2	15	13,7	11,8	9,4	7	4,3	-
GQR 10-20	3,8	1,5	2		20	19,5	18,8	18	16,8	15,2	13,2	10,8	8,4	5,7	3

Single-phase

							Q = Flow												
							m³/h	0	3	6	9	12	15	18	21	24	27	30	
Model	230V	Capacitor		P2		P1	l/min		50	100	150	200	250	300	350	400	450	500	
	A	Vc	uf	kW	HP	kW	H (m) = Total head												
GQRM 10-10	3,1	450	12,5	0,45	0,6	0,7			10	9,5	8,8	8	6,7	5	3	-	-	-	-
GQRM 10-12	3,6	450	16	0,55	0,75	1			12	11,6	11	10,2	9	7,5	5,5	3,2	-	-	-
GQRM 10-14	4,5	450	16	0,75	1	1		14	13,5	12,8	12	10,8	9,3	7,5	5,5	3	-	-	
GQRM 10-16	6	450	25	0,9	1,2	1,3		16	15,5	15	14,2	13,2	11,8	10,2	8	5,5	2,3	-	
GQRM 10-18	8	450	30	1,1	1,5	1,7		18	17,5	17	16,2	15	13,7	11,8	9,4	7	4,3	-	
GQRM 10-20	13	450	35	1,5	2	2,2		20	19,5	18,8	18	16,8	15,2	13,2	10,8	8,4	5,7	3	

Three-phase

				Q = Flow																
				m³/h	0	3	6	9	12	15	18	21	24	25	27	30	36	42	48	52
Model	400V	P2		l/min			50	100	150	200	250	300	350	400	416	450	500	600	700	800
	A	kW	HP	H (m) = Total head																
GQR 10-32-10	1,2	0,45	0,6		10	9,5	8,8	8	6,7	5	3	-	-	-	-	-	-	-	-	-
GQR 10-32-12	1,4	0,55	0,75		12	11,6	11	10,2	9	7,5	5,5	3,2	-	-	-	-	-	-	-	-
GQR 10-32-14	1,6	0,75	1		14	13,5	12,8	12	10,8	9,3	7,5	5,5	3	-	-	-	-	-	-	-
GQR 10-32-16	2,3	0,9	1,2		16	15,5	15	14,2	13,2	11,8	10,2	8	5,5	4,5	2,3	-	-	-	-	-
GQR 10-32-18	2,8	1,1	1,5		18	17,5	17	16,2	15	13,7	11,8	9,4	7	6,1	4,3	-	-	-	-	-
GQR 10-32-20	3,8	1,5	2		20	19,5	18,8	18	16,8	15,2	13,2	10,8	8,4	7,5	5,7	3	-	-	-	-
GQR 6-32-24	3.8	1,1	1,5		23,9	22,2	20,7	18,6	16	12,9	9,4	5,5	1,9	-	-	-	-	-	-	-
GQR 6-32-27	4.5	1.5	2		27,1	25,3	23,5	20,9	17,7	14,3	10,7	6,9	2,8	1,7	-	-	-	-	-	-
GQR 6-32-30	5,6	1.8	2.5		30,2	27,9	26,3	24,2	21,3	17,7	13,7	9,6	5,5	4,1	-	-	-	-	-	-
GQR 10-50-14	3	1,1	1,5		13,7	13,6	13,5	13,2	12,8	12,3	11,6	10,9	10	9,7	9	7,9	5,3	2,3	-	-
GQR 10-50-16	4.5	1,5	2		15,8	15,9	15,8	15,6	15,3	14,8	14,2	13,5	12,6	12,4	11,7	10,7	8,2	5,2	1,6	-
GQR 10-50-18	5	2	2,7		17,7	17,9	18	17,9	17,6	17,1	16,5	15,8	15,1	14,8	14,2	13,2	10,9	8	4,5	2

Single-phase

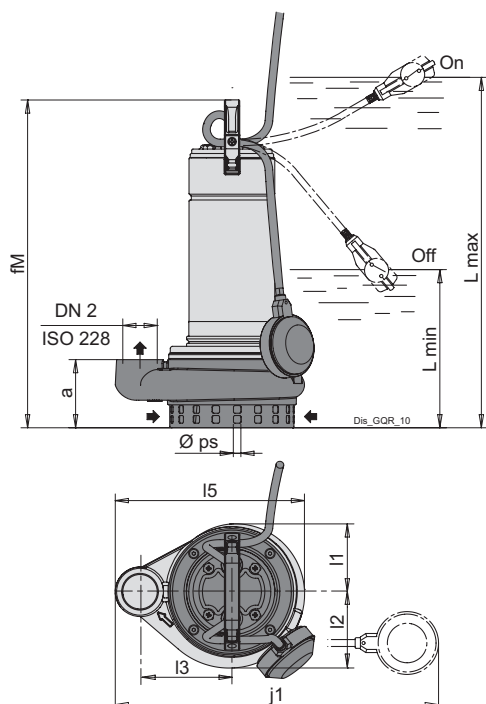
							Q = Flow															
							m³/h	0	3	6	9	12	15	18	21	24	25	27	30	36	42	48
									l/min	50	100	150	200	250	300	350	400	417	450	500	600	700
Model	230V	Capacitor		P2		P1	H (m) = Total head															
	A	Vc	uf	kW	HP	kW																
GQRM 10-32-10	3,1	450	12,5	0,45	0,6	0,7		10	9,5	8,8	8	6,7	5	3	-	-	-	-	-	-	-	-
GQRM 10-32-12	3,6	450	16	0,55	0,75	1		12	11,6	11	10,2	9	7,5	5,5	3,2	-	-	-	-	-	-	-
GQRM 10-32-14	4,5	450	16	0,75	1	1		14	13,5	12,8	12	10,8	9,3	7,5	5,5	3	-	-	-	-	-	-
GQRM 10-32-16	6	450	25	0,9	1,2	1,3		16	15,5	15	14,2	13,2	11,8	10,2	8	5,5	4,5	2,3	-	-	-	-
GQRM 10-32-18	8	450	30	1,1	1,5	1,7		18	17,5	17	16,2	15	13,7	11,8	9,4	7	6,1	4,3	-	-	-	-
GQRM 10-32-20	12	450	35	1,5	2	2,2		20	19,5	18,8	18	16,8	15,2	13,2	10,8	8,4	7,5	5,7	3	-	-	-
GQRM 6-32-24	9.5	450	30	1,1	1,5	1,84		23,9	22,2	20,7	18,6	16	12,9	9,4	5,5	1,9	-	-	-	-	-	-
GQRM 6-32-27	12	450	35	1.5	2	2,3		27,1	25,3	23,5	20,9	17,7	14,3	10,7	6,9	2,8	1,7	-	-	-	-	-
GQRM 10-50-14	8	450	30	1,1	1,5	2		13,7	13,6	13,5	13,2	12,8	12,3	11,6	10,9	10	9,7	9	7,9	5,3	2,3	-
GQRM 10-50-16	13	450	35	1,5	2	2,4		15,8	15,9	15,8	15,6	15,3	14,8	14,2	13,5	12,6	12,4	11,7	10,7	8,2	5,2	1,6

P1: Maximum power input.

P2: Rated motor power output.

Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$. Total head in m

Dimensions and weights

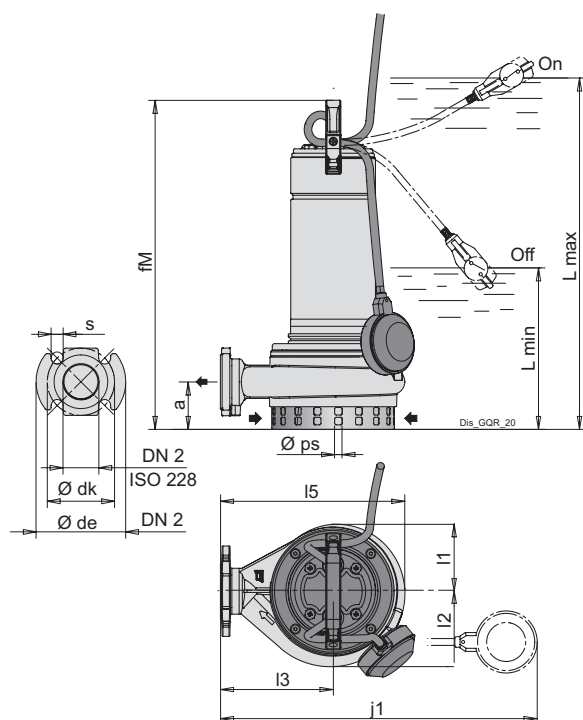


TYPE	ISO 228	mm								kg
	DN2	a	fM	l1	l2	l5	l5	Lmin	ps	Weight
GQR 10-10	G1 1/2	90	390	89	100	120	247	205	10	12.8
GQR 10-12	G1 1/2	90	405	89	100	120	247	220	10	14.3
GQR 10-14	G1 1/2	90	405	89	100	120	247	220	10	14.3
GQR 10-16	G1 1/2	90	430	89	100	120	247	245	10	16
GQR 10-18	G1 1/2	90	450	89	100	120	247	265	10	17.5
GQR 10-20	G1 1/2	90	450	89	100	120	247	265	10	18.3

L min: = Minimum immersion depth

TYPE	ISO 228	mm										kg
	DN2	a	fM	j1	l1	l2	l5	l5	Lmax	Lmin	ps	Weight
GQRM 10-10	G1 1/2	90	390	430	89	100	120	247	410	205	10	13.8
GQRM 10-12	G1 1/2	90	405	430	89	100	120	247	425	220	10	15.5
GQRM 10-14	G1 1/2	90	430	430	89	100	120	247	425	220	10	15.5
GQRM 10-16	G1 1/2	90	430	430	89	100	120	247	450	245	10	17
GQRM 10-18	G1 1/2	90	450	430	89	100	120	247	470	265	10	19
GQRM 10-20	G1 1/2	90	480	430	89	100	120	247	500	295	10	20.3

weights With cable length: 10 m



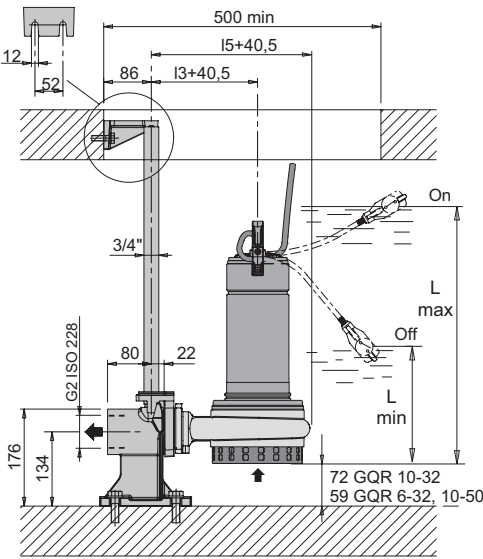
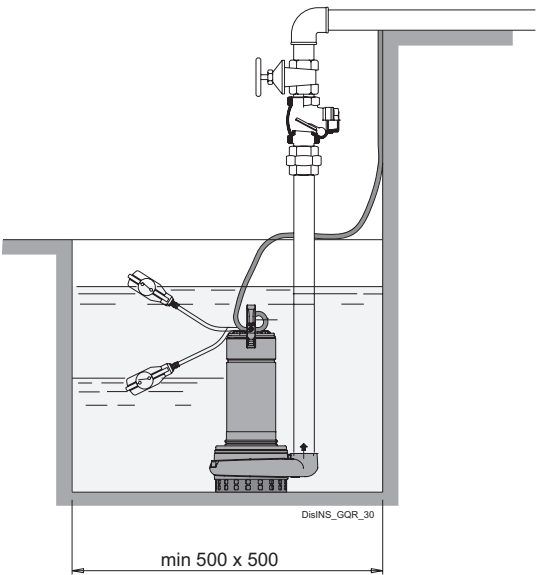
TYPE	DN2	mm											kg
		a	de	dk	fM	l1	l2	l5	l5	Lmin	ps	s	Weight
GQR 10-32-10	G1 1/2 (DN32 PN6)	62	120	90	395	89	100	150	245	210	10	16	13.4
GQR 10-32-12	G1 1/2 (DN32 PN6)	62	120	90	410	89	100	150	245	225	10	16	14.5
GQR 10-32-14	G1 1/2 (DN32 PN6)	62	120	90	410	89	100	150	245	225	10	16	14.5
GQR 10-32-16	G1 1/2 (DN32 PN6)	62	120	90	435	89	100	150	245	250	10	16	15.5
GQR 10-32-18	G1 1/2 (DN32 PN6)	62	120	90	455	89	100	150	245	270	10	16	17.2
GQR 10-32-20	G1 1/2 (DN32 PN6)	62	120	90	485	89	100	150	245	300	10	16	18.7
GQR 6-32-24	G1 1/2 (DN32 PN6)	75	120	90	498.5	91	99	160	254	305	6	16	-
GQR 6-32-27	G1 1/2 (DN32 PN6)	75	120	90	498.5	91	99	160	254	305	6	16	-
GQR 6-32-30	G1 1/2 (DN32 PN6)	75	120	90	518.5	91	99	160	254	335	6	16	-
GQR 10-50-14	G2 (DN50 PN10)	62	165	125	457	90	108	150	248	272	10	19	-
GQR 10-50-16	G2 (DN50 PN10)	62	165	125	457	90	108	150	248	272	10	19	-
GQR 10-50-18	G2 (DN50 PN10)	62	165	125	487	90	108	150	248	302	10	19	-

L min: = Minimum immersion depth

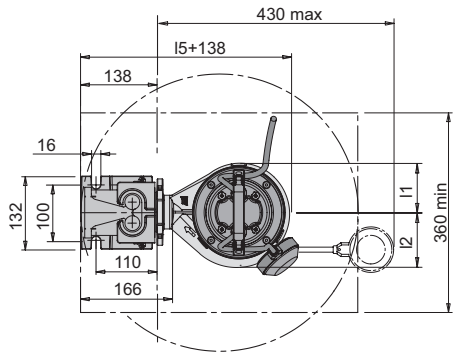
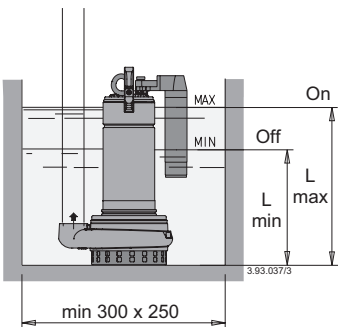
TYPE	DN2	mm													kg
		a	de	dk	fM	j1	l1	l2	l5	l5	Lmax	Lmin	ps	s	Weight
GQRM 10-32-10	G1 1/2 (DN32 PN6)	62	120	90	395	430	89	100	150	245	415	210	10	16	14.5
GQRM 10-32-12	G1 1/2 (DN32 PN6)	62	120	90	410	430	89	100	150	245	430	225	10	16	15.6
GQRM 10-32-14	G1 1/2 (DN32 PN6)	62	120	90	410	430	89	100	150	245	430	225	10	16	15.5
GQRM 10-32-16	G1 1/2 (DN32 PN6)	62	120	90	435	430	89	100	150	245	455	250	10	16	17.7
GQRM 10-32-18	G1 1/2 (DN32 PN6)	62	120	90	455	430	89	100	150	245	475	270	10	16	19.2
GQRM 10-32-20	G1 1/2 (DN32 PN6)	62	120	90	485	430	89	100	150	245	505	300	10	16	21.3
GQRM 6-32-24	G1 1/2 (DN32 PN6)	75	120	90	498.5	430	91	99	160	254	574	314	6	16	-
GQRM 6-32-27	G1 1/2 (DN32 PN6)	75	120	90	518.5	430	91	99	160	254	594	334	6	16	-
GQRM 10-50-14	G2 (DN50 PN10)	62	165	125	457	430	90	108	150	248	532	272	10	19	-
GQRM 10-50-16	G2 (DN50 PN10)	62	165	125	487	430	90	108	150	248	562	302	10	19	-

weights With cable length: 10 m

Installation examples

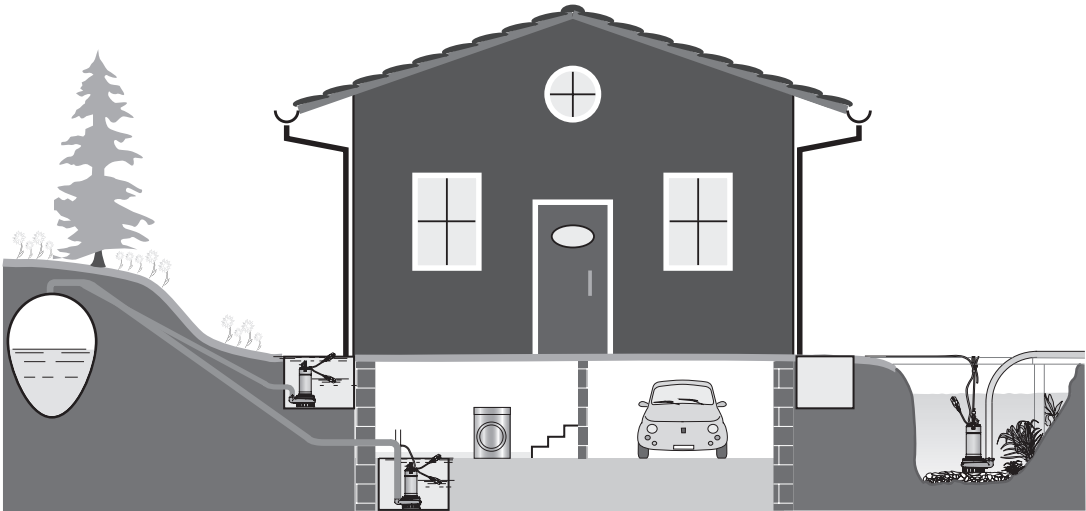


Installation examples with vertical magnetic float switch



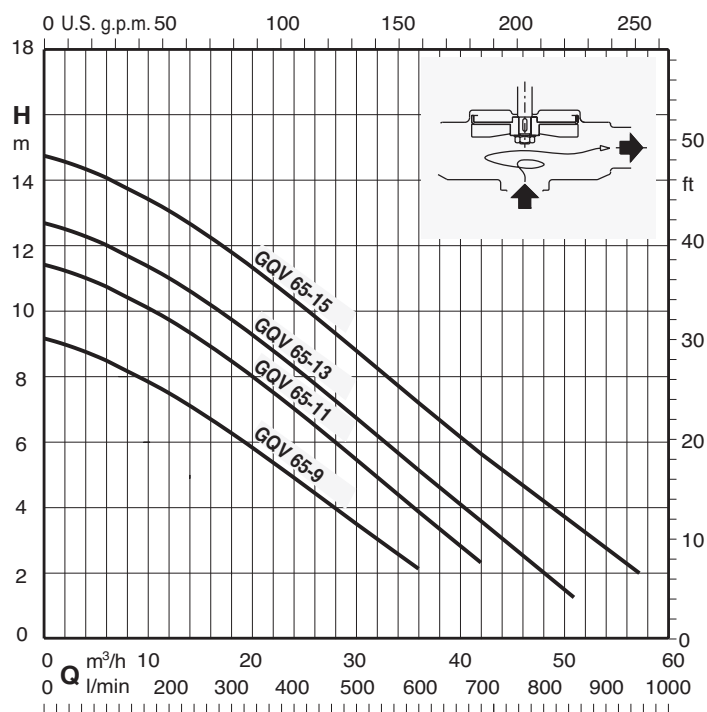
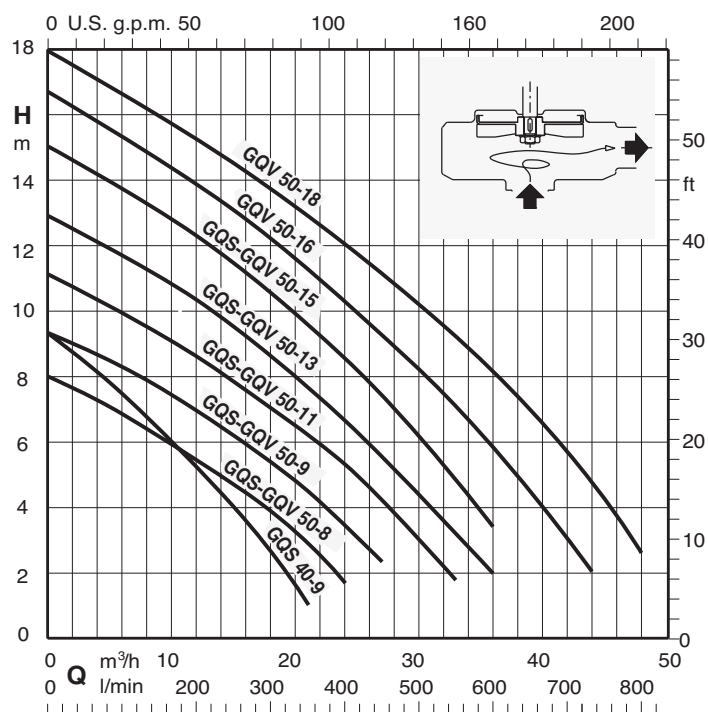
TYPE	DN2	mm		kg
		Lmax	Lmin	
GQRM 10-10 GF	G1 1/2	410	205	14.1
GQRM 10-12 GF	G1 1/2	425	220	15
GQRM 10-14 GF	G1 1/2	425	220	15.5
GQRM 10-16 GF	G1 1/2	450	245	17.4
GQRM 10-18 GF	G1 1/2	470	265	19

Examples of installations



GQV, GQS

(patented system)

Coverage chart $n \approx 2900$ rpm

Submersible sewage and drainage pumps

GQV, GQS



Construction

Single-impeller submersible pumps, with free-flow (vortex) impeller.

GQS: with threaded vertical delivery port G 1 1/2" or G 2".

GQV: with threaded horizontal delivery port G 2" or G 2 1/2" and flanged DN 50 or DN 65.

Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

For civil and industrial wastewater that is not aggressive to the pump materials, for dirty water even with solids with a diameter of 40, 50, 65 mm.

Emptying of flooded rooms or tanks.

Water extraction from ponds, flowing streams, or pits for rainwater collection.

Operating conditions

Liquid temperature up to 35° C.

Steam pH: 6-11.

Maximum immersion depth: 5 m.

Minimum immersion depth:

- 200 mm for GQS 40
- 275 mm for GQS, GQV 50.
- 355 mm for GQV 65.

Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50Hz (n ≈ 2900 1/min).

GQS, GQV: three-phase 230V ± 10%
400V ± 10%

Cable: H07RN-F, 4G1 mm2, length 10 m, without plug.

GQSM, GQVM: single-phase 230V ± 10%

with float switch and thermal protector.

Incorporated capacitor

Cable: H07RN-F, 3G1 mm2, length 10 m, with plug CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion).

Dry winding with triple moisture-resistant impregnation (double for GQS 40).

Constructed in accordance with EN 60034-1, EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.

Frequency 60 Hz (as per 60 Hz data sheet).

Other mechanical seal.

Cable length 20 m.

Motor set up for operation with inverter.

Three-phase pumps with built-in switch and float.

Designation

Example: GQSM 40-9

GQ = Series

S = Vertical Vortex impeller V = Horizontal Vortex impeller

M = Single-phase (no indication: three-phase)

40 = Free passage diameter in mm

9 = Total head in m indoors

Materials

Components	Materials
Pump casing	Cast iron GJL 200 EN 1561
Impeller	Cast iron GJL 200 EN 1561, Steel 1.4301 EN 10088 (AISI 304) for GQS 40
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Jacket cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene (with frame made of 1.4301 EN 10088 (AISI 304))
Shaft	Steel 1.4301 EN 10088 (AISI 304), Steel 1.4305 EN 10088 (AISI 303) for GQS 40
Upper mechanical seal	Ceramic / Carbon / NBR
Lower mechanical seal	Ceramic / Carbon / NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Coverage chart n ≈ 2900 rpm

Three-phase

				Q = Flow									
				m³/h	0	1,5	3	6	9	12	15	18	21
Model	400V	P2		l/min		25	50	100	150	200	250	300	350
	A	kW	HP	H (m) = Total head									
GQS 40-9	1,6	0,45	0,6		9,3	8,8	8,3	7,3	6,3	5,2	3,8	2,3	0,9

				Q = Flow																	
				m³/h	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	44	48
Model	400V	P2		l/min		50	100	150	200	250	300	350	400	450	500	550	600	650	700	733	800
	A	kW	HP	H (m) = Total head																	
GQS 50-8	1,5	0,55	0,75		8	7,4	6,9	6,3	5,6	4,8	4	3	1,8	-	-	-	-	-	-	-	
GQV 50-8	1,5	0,55	0,75		8	7,4	6,9	6,3	5,6	4,8	4	3	1,8	-	-	-	-	-	-	-	
GQS 50-9	1,8	0,75	1		9,3	8,8	8,3	7,7	7	6,2	5,3	4,3	3,2	2,2	-	-	-	-	-	-	
GQV 50-9	1,8	0,75	1		9,3	8,8	8,3	7,7	7	6,2	5,3	4,3	3,2	2,2	-	-	-	-	-	-	
GQS 50-11	2,3	0,9	1,2		11	10,5	10	9,3	8,6	7,8	7	6,2	5,2	4,2	3	1,8	-	-	-	-	
GQV 50-11	2,3	0,9	1,2		11	10,5	10	9,3	8,6	7,8	7	6,2	5,2	4,2	3	1,8	-	-	-	-	
GQS 50-13	3	1,1	1,5		12,8	12,2	11,6	11	10,3	9,5	8,6	7,7	6,7	5,7	4,5	3,3	2	-	-	-	
GQV 50-13	3	1,1	1,5		12,8	12,2	11,6	11	10,3	9,5	8,6	7,7	6,7	5,7	4,5	3,3	2	-	-	-	
GQS 50-15	4	1,5	2		15	14,4	13,7	13	12,2	11,3	10,4	9,5	8,5	7,4	6,2	4,8	3,5	-	-	-	
GQV 50-15	4	1,5	2		15	14,4	13,7	13	12,2	11,3	10,4	9,5	8,5	7,4	6,2	4,8	3,5	-	-	-	
GQV 50-16	5	2	2,7		16	16	15,3	14,5	13,7	12,9	12	11,1	10,2	9,2	8,2	7,1	5,9	4,6	3,1	2	
GQV 50-18	7,5	2,6	3,5		18	17,4	16,7	16	15,3	14,5	13,8	12,9	12,1	11,2	10,3	9,3	8,2	7,1	5,8	4,8	

				Q = Flow												
				m³/h	0	6	12	18	24	30	36	42	48	51	54	57
Model	400V	P2		l/min		100	200	300	400	500	600	700	800	850	900	950
	A	kW	HP	H (m) = Total head												
GQV 65-9	3	1,1	1,5		9,1	8,5	7,5	6,3	4,9	3,5	2,1	-	-	-	-	-
GQV 65-11	4	1,5	2		11,4	10,7	9,7	8,5	7	5,5	3,9	2,3	-	-	-	-
GQV 65-13	5	2	2,7		13	11,9	11	10	8,8	7,6	6,1	4,3	2,3	1,2	-	-
GQV 65-15	7,5	2,6	3,5		15	13,9	13	12	10,9	9,8	8,5	7	5	3,9	2,8	2

Single-phase

							Q = Flow									
							m³/h	0	1,5	3	6	9	12	15	18	21
							l/min		25	50	100	150	200	250	300	350
Model	230V	Capacitor		P2		P1	H (m) = Total head									
	A	Vc	uf	kW	HP	kW										
GQSM 40-9	4,5	450	20	0,45	0,6	0,95		9,3	8,8	8,3	7,3	6,3	5,2	3,8	2,3	0,9

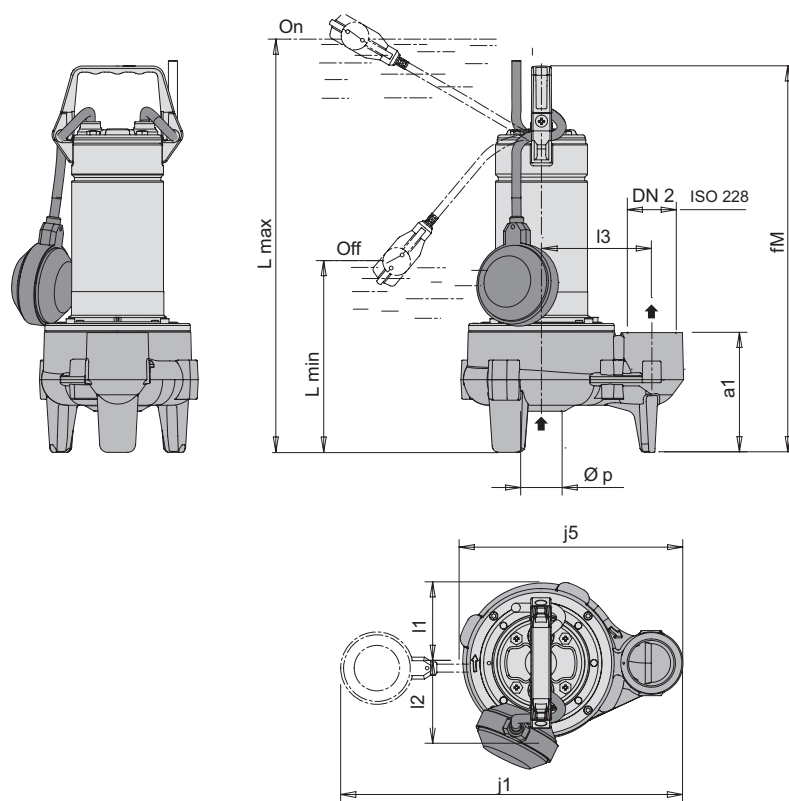
							Q = Flow												
							m³/h	0	3	6	9	12	15	18	21	24	27	30	33
Model	230V	Capacitor		P2		P1	l/min		50	100	150	200	250	300	350	400	450	500	550
	A	Vc	uf	kW	HP	kW	H (m) = Total head												
GQSM 50-8	4,3	450	16	0,55	0,75	0,95	8	7,4	6,9	6,3	5,6	4,8	4	3	1,8	-	-	-	-
GQVM 50-8	4,3	450	16	0,55	0,75	0,95	8	7,4	6,9	6,3	5,6	4,8	4	3	1,8	-	-	-	-
GQSM 50-9	4,8	450	16	0,75	1	1,1	9,3	8,8	8,3	7,7	7	6,2	5,3	4,3	3,2	2,2	-	-	-
GQVM 50-9	4,8	450	16	0,75	1	1,1	9,3	8,8	8,3	7,7	7	6,2	5,3	4,3	3,2	2,2	-	-	-
GQSM 50-11	6,6	450	25	0,9	1,2	1,45	11	10,5	10	9,3	8,6	7,8	7	6,2	5,2	4,2	3	1,8	-
GQVM 50-11	6,6	450	25	0,9	1,2	1,45	11	10,5	10	9,3	8,6	7,8	7	6,2	5,2	4,2	3	1,8	-
GQSM 50-13	8,4	450	30	1,1	1,5	1,8	12,8	12,2	11,6	11	10,3	9,5	8,6	7,7	6,7	5,7	4,5	3,3	2
GQVM 50-13	8,4	450	30	1,1	1,5	1,8	12,8	12,2	11,6	11	10,3	9,5	8,6	7,7	6,7	5,7	4,5	3,3	2
GQSM 50-15	13	450	35	1,5	2	2,2	15	14,4	13,7	13	12,2	11,3	10,4	9,5	8,5	7,4	6,2	4,8	3,5
GQVM 50-15	13	450	35	1,5	2	2,2	15	14,4	13,7	13	12,2	11,3	10,4	9,5	8,5	7,4	6,2	4,8	3,5

							Q = Flow								
							m³/h	0	6	12	18	24	30	36	42
							l/min		100	200	300	400	500	600	700
Model	230V	Capacitor		P2		P1									
	A	Vc	uf	kW	HP	kW	H (m) = Total head								
GQVM 65-9	8,4	450	30	1,1	1,5	1,8		9,1	8,5	7,5	6,3	4,9	3,5	2,1	-
GQVM 65-11	12	450	35	1,5	2	2,2		11,4	10,7	9,7	8,5	7	5,5	3,9	2,3

P1: Maximum power input. **P2:** Rated motor power output.

Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \max 20 \text{ mm}^2/\text{sec}$. Total head in m

Dimensions and weights



TYPE	ISO 228	mm							kg
	DN2	a1	fM	j5	l1	l2	l5	p	Weight
GQS 40-9	G1 1/2	120	385	222	78	81	110	40	10

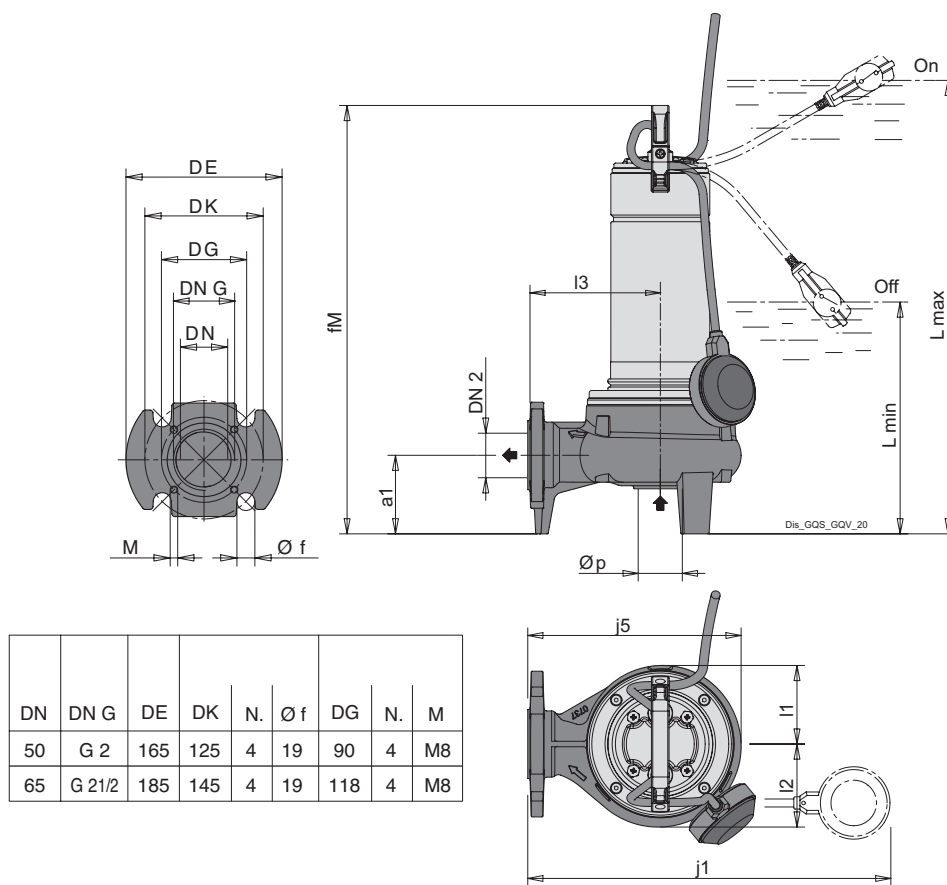
TYPE	ISO 228	mm										kg
	DN2	a1	fM	j1	j5	l1	l2	l5	Lmax	Lmin	p	Weight
GQSM 40-9	G1 1/2	120	385	410	222	78	81	110	460	200	40	10.9

TYPE	ISO 228	mm							kg
	DN2	a1	fM	j5	l1	l2	l5	p	Weight
GQS 50-8	G 2	145	460	264	89	94	130	50	14.8
GQS 50-9	G 2	145	460	264	89	94	130	50	15
GQS 50-11	G 2	145	485	264	89	94	130	50	15.8
GQS 50-13	G 2	145	505	264	89	94	130	50	17.8
GQS 50-15	G 2	145	505	264	89	94	130	50	19.3

TYPE	ISO 228	mm										kg
	DN2	a1	fM	j1	j5	l1	l2	l5	Lmax	Lmin	p	Weight
GQSM 50-8	G 2	145	460	452	264	89	94	130	535	275	50	15.8
GQSM 50-9	G 2	145	460	452	264	89	94	130	535	275	50	16
GQSM 50-11	G 2	145	485	452	264	89	94	130	560	300	50	18.1
GQSM 50-13	G 2	145	505	452	264	89	94	130	580	320	50	19.2
GQSM 50-15	G 2	145	535	452	264	89	94	130	610	350	50	21.3

weights With cable length: 10 m

Dimensions and weights



DN	DN G	DE	DK	N.	Ø f	DG	N.	M
50	G 2	165	125	4	19	90	4	M8
65	G 2 1/2	185	145	4	19	118	4	M8

TYPE	DN2	mm								kg
		a1	fM	l1	l2	l5	l5	p	s	Weight
GQV 50-8	G 2 (DN50)	90	460	89	94	150	242	50	19 (M8)	15
GQV 50-9	G 2 (DN50)	90	460	89	94	150	242	50	19 (M8)	15.2
GQV 50-11	G 2 (DN50)	90	485	89	94	150	242	50	19 (M8)	16
GQV 50-13	G 2 (DN50)	90	505	89	94	150	242	50	19 (M8)	18
GQV 50-15	G 2 (DN50)	90	505	89	94	150	242	50	19 (M8)	19.8
GQV 50-16	G 2 (DN50)	90	592	89	94	150	242	50	19 (M8)	-
GQV 50-18	G 2 (DN50)	90	642	89	94	150	242	50	19 (M8)	-
GQV 65-9	G 2 1/2 (DN65)	110	540	100	105	150	253	65	19 (M8)	20.2
GQV 65-11	G 2 1/2 (DN65)	110	540	100	105	150	253	65	19 (M8)	21.6
GQV 65-13	G 2 1/2 (DN65)	110	621	99.4	104.6	150	253	65	19 (M8)	-
GQV 65-15	G 2 1/2 (DN65)	110	671	99.4	104.4	150	253	65	19 (M8)	-

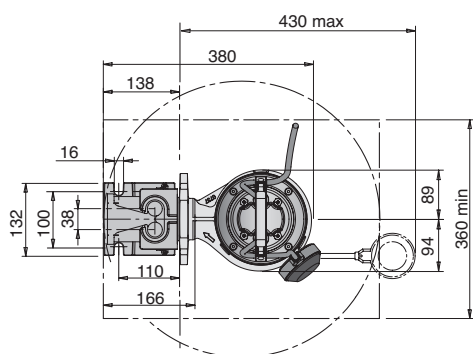
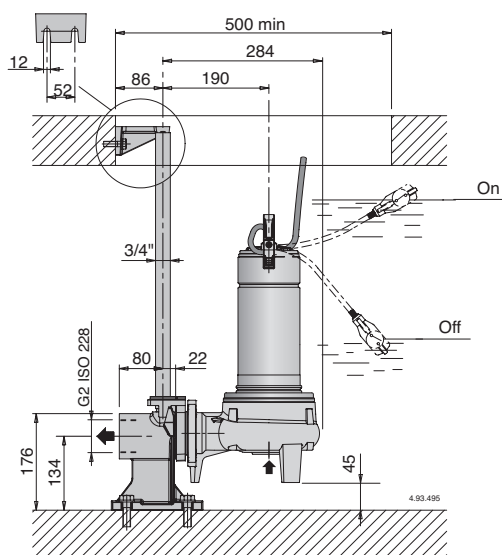
TYPE		mm											kg
	DN2	a1	fM	j1	l1	l2	l5	l5	Lmax	Lmin	p	s	Weight
GQVM 50-8	G 2 (DN50)	90	460	430	89	94	150	242	535	275	50	19 (M8)	16
GQVM 50-9	G 2 (DN50)	90	460	430	89	94	150	242	535	275	50	19 (M8)	16.2
GQVM 50-11	G 2 (DN50)	90	485	430	89	94	150	242	560	300	50	19 (M8)	17.4
GQVM 50-13	G 2 (DN50)	90	505	430	89	94	150	242	580	320	50	19 (M8)	19.4
GQVM 50-15	G 2 (DN50)	90	535	430	89	94	150	242	610	350	50	19 (M8)	21.5
GQVM 65-9	G 2 1/2 (DN65)	110	540	430	100	105	150	253	615	355	65	19 (M8)	21.7
GQVM 65-11	G 2 1/2 (DN65)	110	570	430	100	105	150	253	645	385	65	19 (M8)	24.2

weights With cable length: 10 m

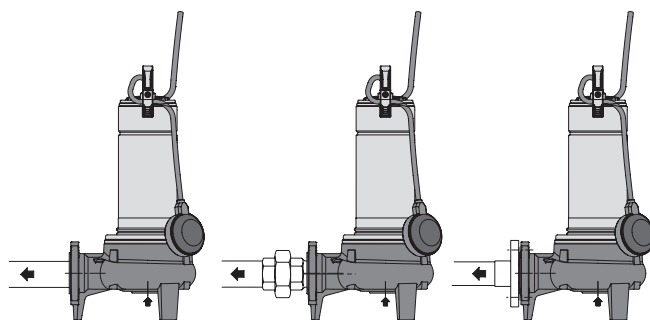
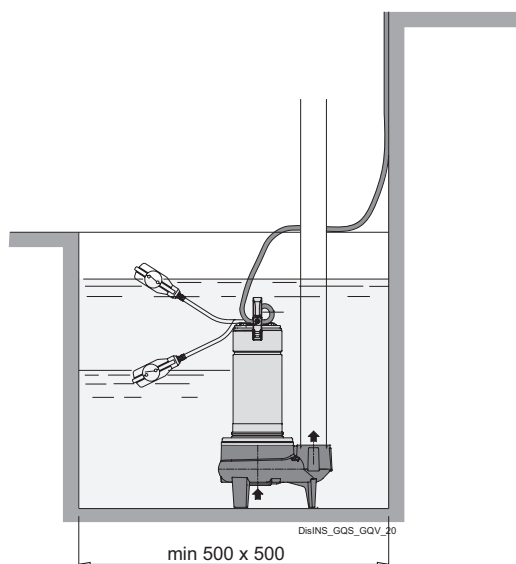
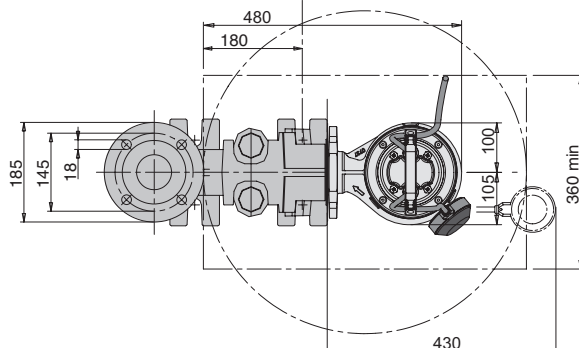
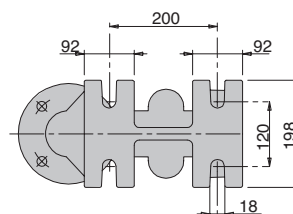
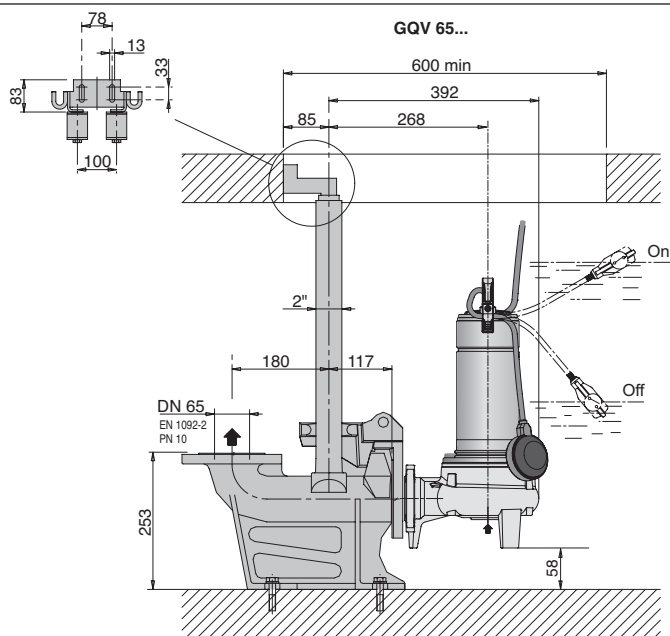
GQV, GQS

Examples of installations

GQV 50...



GQV 65...



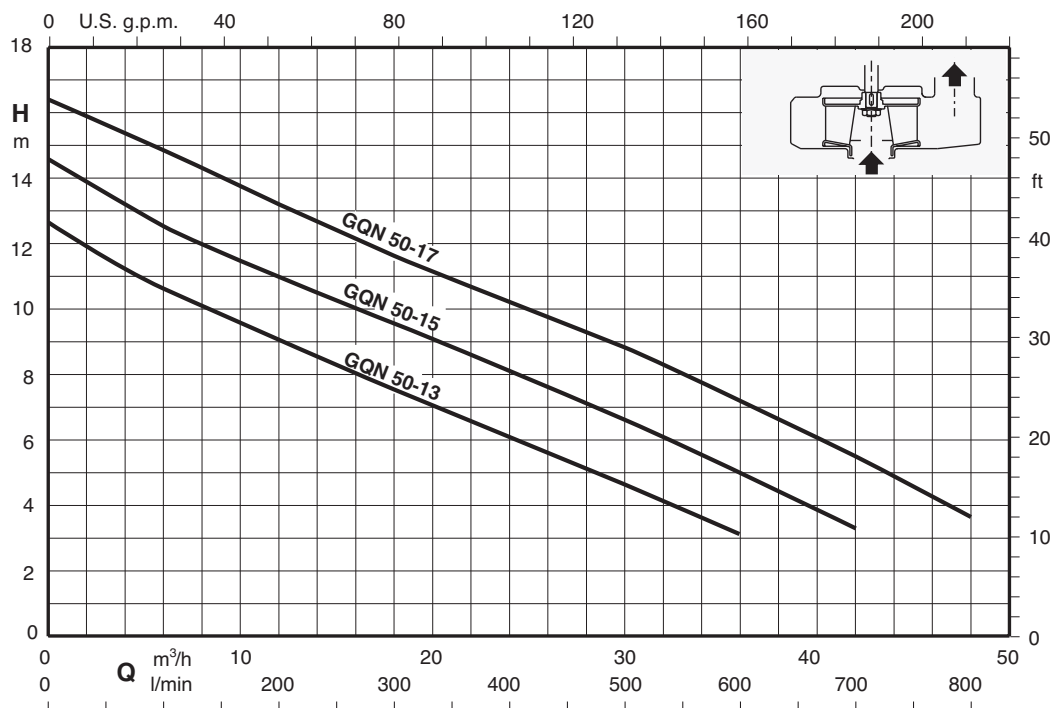
Pump with threaded ports: pipes screwed into the ports

Pump with threaded ports: pipes with union couplings (locally available)

Pump with flanged port: pipe with counterflange

GQN

(patented system)

Coverage chart $n \approx 2900$ rpm

Submersible sewage and drainage pumps

Construction

Single-impeller submersible pumps, (with two-passage) with channels impeller and vertical threaded delivery port (G 2").

Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

For civil and industrial wastewater that is not aggressive to the pump materials, for dirty water even with solids with a diameter of 50 mm.

Emptying of flooded rooms or tanks.

Water extraction from ponds, flowing streams, or pits for rainwater collection.

Operating conditions

Maximum liquid temperature: 35 °C

pH value: 6-11.

Immersion depth: 5 m max

Minimum immersion depth: 275 mm.

Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50Hz (n ≈ 2900 1/min).

GQN: three-phase 230V ± 10%

400V ± 10%

Cable: H07RN-F, 4G1 mm², length 10 m, without plug.

GQNM: single-phase 230V ± 10%

with float switch and thermal protector.

Incorporated capacitor

Cable: H07RN-F, 3G1 mm², length 10 m, with plug CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion).

Triple impregnation humidity-proof dry winding

Constructed in accordance with EN 60034-1, EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.

Frequency 60 Hz (as per 60 Hz data sheet).

Cable length 20 m.

Motor suitable for operation with frequency converter.

Three-phase pumps with incorporated float switch.

Designation

Example: GQNM 50-15

GQ = Series

N = channels impeller

M = Single-phase (without three-phase indication)

50 = Free passage diameter in mm

15 = Total head in m indoors

Materials

Components	Materials
Pump casing	Cast iron GJL 200 EN 1561
Impeller	Cast iron GJL 200 EN 1561
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Jacket cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene (with frame made of 1.4301 EN 10088 (AISI 304))
Shaft	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Upper mechanical seal	Ceramic / Carbon / NBR
Lower mechanical seal	Ceramic / Carbon / NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery



Coverage chart n ≈ 2900 rpm

Three-phase

				Q = Flow										
				m³/h	0	3	6	12	18	24	30	36	42	48
Model	400V	P2		l/min		50	100	200	300	400	500	600	700	800
	A	kW	HP	H (m) = Total head										
GQN 50-13	2,3	0,9	1,2		12,7	11,6	10,6	8,9	7,7	6,3	4,7	3,1	-	-
GQN 50-15	3,3	1,1	1,5		14,7	13,5	12,6	10,9	9,6	8,3	6,7	5	3,2	-
GQN 50-17	4,5	1,5	2		16,4	15,7	14,9	13,2	11,7	10,3	8,9	7,3	5,5	3,6

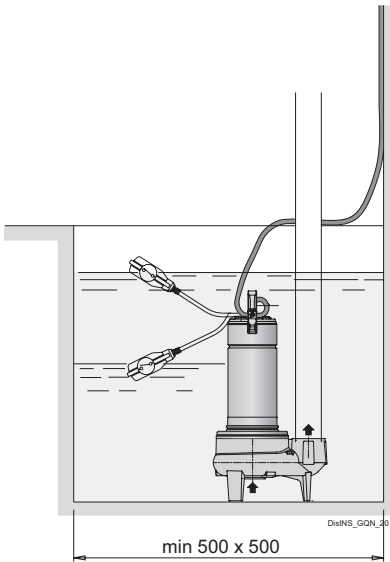
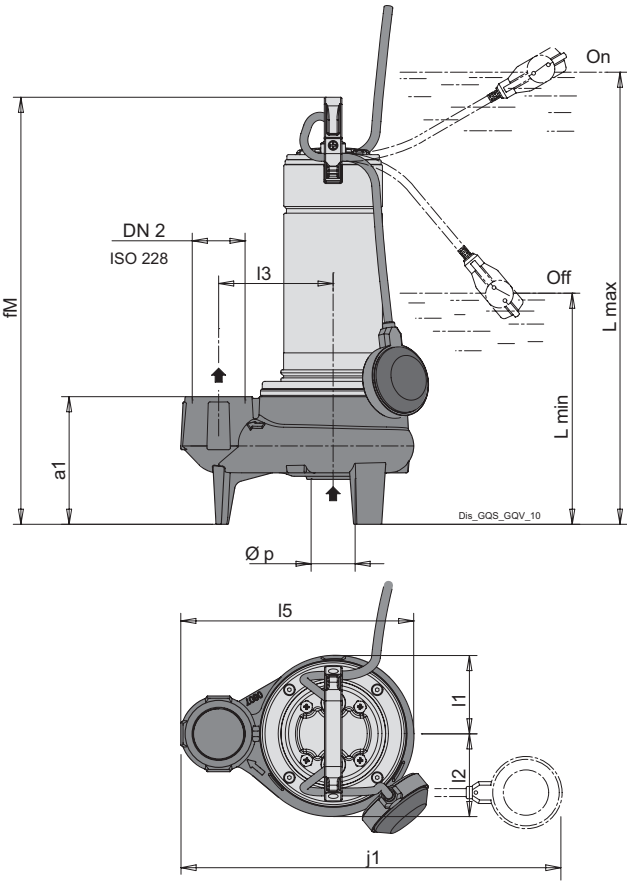
Single-phase

							Q = Flow										
							m³/h	0	3	6	12	18	24	30	36	42	48
Model	230V	Capacitor		P2		P1	l/min		50	100	200	300	400	500	600	700	800
	A	Vc	uf	kW	HP	kW	H (m) = Total head										
GQNM 50-13	6,6	450	25	0,9	1,2	1,45		12,7	11,6	10,6	8,9	7,7	6,3	4,7	3,1	-	-
GQNM 50-15	8,4	450	30	1,1	1,5	1,8		14,7	13,5	12,6	10,9	9,6	8,3	6,7	5	3,2	-
GQNM 50-17	12	450	35	1,5	2	2,2		16,4	15,7	14,9	13,2	11,7	10,3	8,9	7,3	5,5	3,6

P2: Rated motor power output.
P1: Maximum power input.
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$. Total head in m

Dimensions and weights

Installation examples

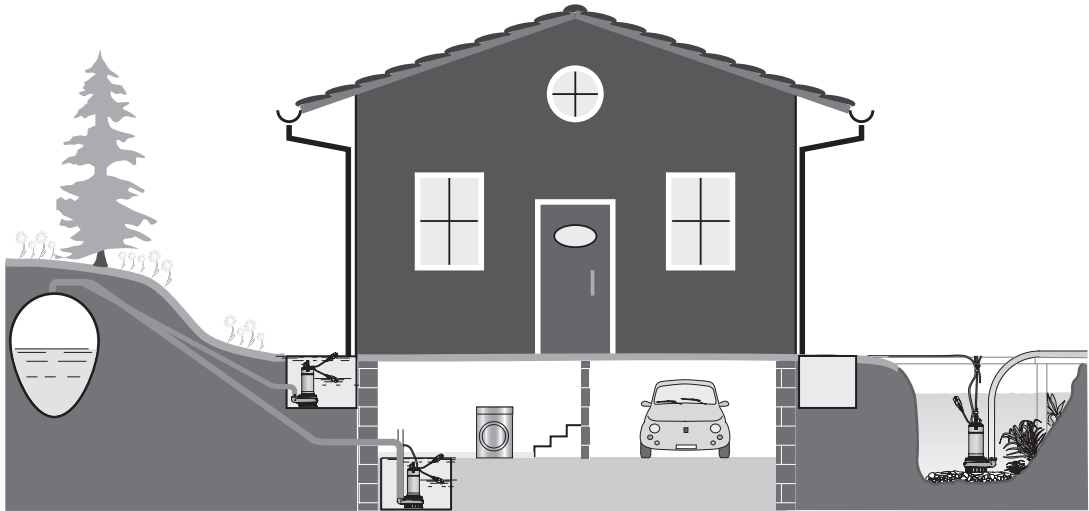


TYPE	DN2	mm								kg
		a1	fM	j1	l1	l2	l5	l5	p	Weight
GQN 50-13	G 2 (DN50)	152.5	493	452	92	104	130	272	50	16.4
GQN 50-15	G 2 (DN50)	152.5	513	452	92	104	130	272	50	18.2
GQN 50-17	G 2 (DN50)	152.5	513	452	92	104	130	272	50	19

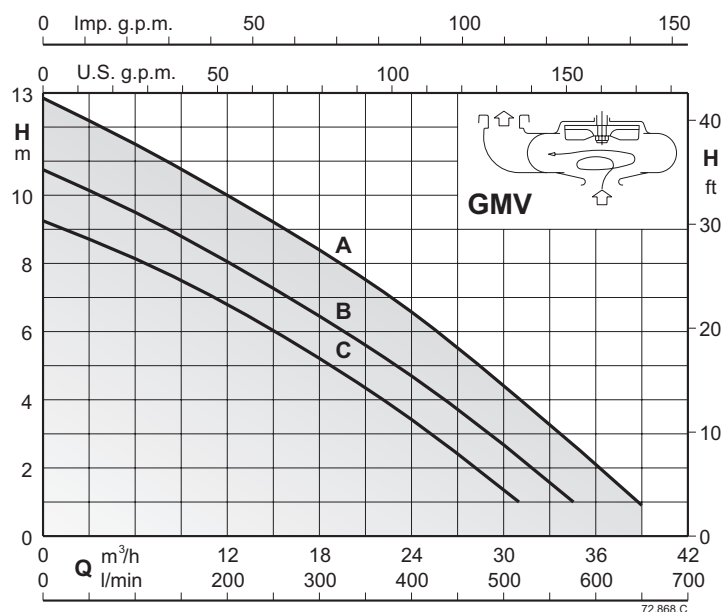
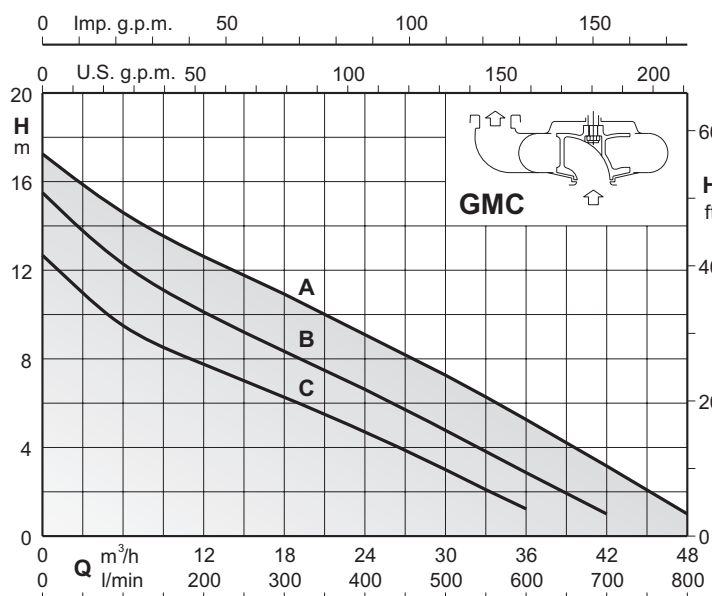
TYPE	DN2	a1	fM	j1	l1	l2	l5	l5	Lmax	Lmin	p	kg
												Weight
GQNM 50-13	G 2 (DN50)	152.5	493	452	92	104	130	272	568	308	50	18.5
GQNM 50-15	G 2 (DN50)	152.5	513	452	92	104	130	272	588	328	50	19.6
GQNM 50-17	G 2 (DN50)	152.5	543	452	92	104	130	272	618	358	50	22.3

weights With cable length: 10 m

Examples of installations



GM 50

Coverage chart $n \approx 2900$ rpm

Submersible sewage and drainage pumps

GM 50



Construction

Close coupled electric submersible pumps.
GMC:with single-channel impeller.
GMV:with free-flow (vortex) impeller
Double seal on the shaft, with interposed oil chamber, protected against dry running.

Applications

For civil and industrial wastewater that is not aggressive to the pump materials, for dirty water even with solids with a diameter of 45 mm for GMC and 50 mm for GMV.

Operating conditions

Maximum liquid temperature: 35 °C
pH value: 6-11.
Maximum immersion depth: 10 m (with suitable cable length).
Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50Hz (n ≈ 2900 1/min).
GMC, GMV: three-phase 230V ± 10%
400V ± 10%
2 built-in thermal protectors to be connected to a control box.
H07RN-F cable, 4G1.5 mm²+2x0.5 mm², length 10 m, without plug.
GMCM, GMVM: single-phase 230V ± 10%
with float switch and thermal protector.
Incorporated capacitor
H07RN-F cable, 3G1.5 mm², length 10 m, with CEI-UNEL 47166 plug.
Insulation class F.
Protection IP X8 (for continuous immersion).
Triple impregnation humidity-proof dry winding
Constructed in accordance with EN 60034-1, EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.
Frequency 60 Hz (as per 60 Hz data sheet).
Motor suitable for operation with frequency converter.

Designation

Example: GMCM 50-65C
GM = Series
C = with single-channel impeller. V Free-flow impeller (wortex impeller)
M = Single-phase (no indication: three-phase indication)
50 = Delivery port diameter in mm
65 = Delivery port diameter in mm (value for flanged pumps only)
C = Impeller diameter

Materials

Components	Materials
Pump casing	Cast iron GJL 200 EN 1561
Casing cover	Cast iron GJL 200 EN 1561
Impeller	Cast iron GJL 200 EN 1561
Motor housing	Cast iron GJL 200 EN 1561
Motor cover	Cast iron GJL 200 EN 1561
Shaft	Steel 1.4104 EN 10088 (AISI 430F)
Upper mechanical seal	Ceramic / Carbon / NBR
Lower mechanical seal	Silicon carbide / Silicon carbide / NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Coverage chart n ≈ 2900 rpm

Three-phase

				Q = Flow									
				m³/h	0	6	12	18	24	30	36	42	48
Model	400V	P2		l/min		100	200	300	400	500	600	700	800
	A	kW	HP	H (m) = Total head									
GMC 50/CE	1,9	0,75	1		12,8	9,5	8	6,5	5	3	1	-	-
GMC 50-65C	1,9	0,75	1		12,8	9,5	8	6,5	5	3	1	-	-
GMC 50/BE	2,7	1,1	1,5		15,5	12,5	10	8,5	6,5	5	3	1	-
GMC 50-65B	2,7	1,1	1,5		15,5	12,5	10	8,5	6,5	5	3	1	-
GMC 50/AE	3,8	1,5	2		17,3	14,5	12,5	11	9	7,5	5,5	3	1
GMC 50-65A	3,8	1,5	2		17,3	14,5	12,5	11	9	7,5	5,5	3	1

Single-phase

Single phase							Q = Flow								
							m³/h	0	6	12	18	24	30	36	42
							l/min		100	200	300	400	500	600	700
Model	230V	Capacitor		P2		P1									
	A	Vc	uf	kW	HP	kW	H (m) = Total head								
GMCM 50/CE	4,5	450	16	0,75	1	1,1		12,8	9,5	8	6,5	5	3	1	-
GMCM 50-65C	4,5	450	16	0,75	1	1,1		12,8	9,5	8	6,5	5	3	1	-
GMCM 50/BE	6,5	450	25	1,1	1,5	1,5		15,5	12,5	10	8,5	6,5	5	3	1
GMCM 50-65B	6,5	450	25	1,1	1,5	1,5		15,5	12,5	10	8,5	6,5	5	3	1

Three-phase

				Q = Flow								
				m³/h	0	6	12	18	24	30	35	39
Model	400V	P2		l/min		100	200	300	400	500	583	650
	A	kW	HP	H (m) = Total head								
GMV 50/CE	1,9	0,75	1		9,2	8	7	5	3,5	1,5	-	-
GMV 50-65C	1,9	0,75	1		9,2	8	7	5	3,5	1,5	-	-
GMV 50/BE	2,7	1,1	1,5		10,7	9,5	8	6,5	4,5	2,5	1	-
GMV 50-65B	2,7	1,1	1,5		10,7	9,5	8	6,5	4,5	2,5	1	-
GMV 50/AE	3,8	1,5	2		12,9	11,5	10	8,5	6,5	4,3	2,5	1
GMV 50-65A	3,8	1,5	2		12,9	11,5	10	8,5	6,5	4,3	2,5	1

Single-phase

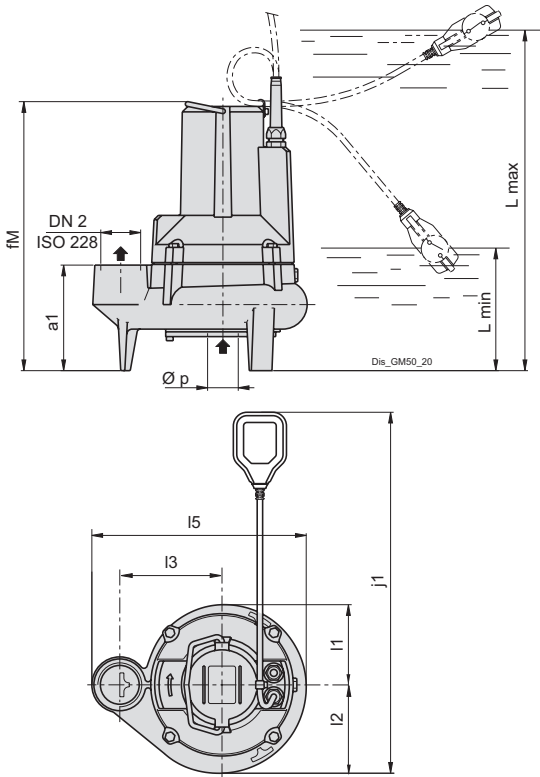
Single phase							Q = Flow							
							m³/h	0	6	12	18	24	30	35
							l/min		100	200	300	400	500	583
Model	230V	Capacitor		P2		P1	H (m) = Total head							
	A	Vc	uf	kW	HP	kW								
GMVM 50/CE	4,5	450	16	0,75	1	1,1		9,2	8	7	5	3,5	1,5	-
GMVM 50-65C	4,5	450	16	0,75	1	1,1		9,2	8	7	5	3,5	1,5	-
GMVM 50/BE	6,5	450	25	1,1	1,5	1,5		10,7	9,5	8	6,5	4,5	2,5	1
GMVM 50-65B	6,5	450	25	1,1	1,5	1,5		10,7	9,5	8	6,5	4,5	2,5	1

P1: Maximum power input.

P2: Rated motor power output.

Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$. Total head in m

Dimensions and weights



TYPE	ISO 228	mm							kg	
		a1	fM	l1	l2	l5	l5	p	Weight	
GMV 50/CE	G 2	155	395	118	130	150	315	45	26.5	
GMV 50/BE	G 2	155	395	118	130	150	315	45	27.5	
GMV 50/AE	G 2	155	395	118	130	150	315	45	29.1	

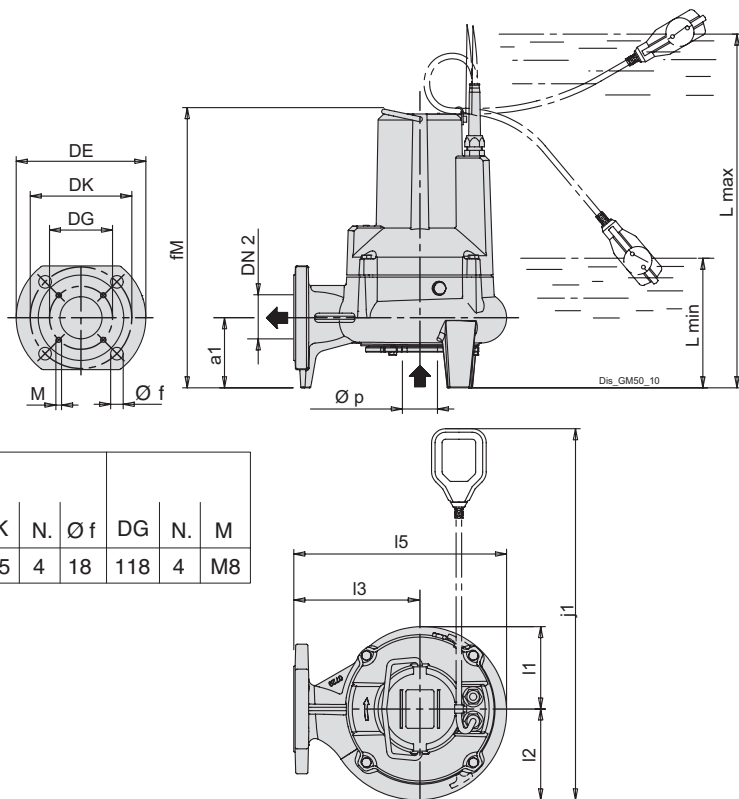
TYPE	ISO 228	mm										kg	
		a1	fM	j1	l1	l2	l5	l5	Lmax	Lmin	p	Weight	
GMVM 50/CE	G 2	155	395	530	118	130	150	315	500	180	45	27.2	
GMVM 50/BE	G 2	155	395	530	118	130	150	315	500	180	45	29	

TYPE	ISO 228	mm							kg	
		a1	fM	l1	l2	l5	l5	p	Weight	
GMC 50/CE	G 2	155	395	118	130	150	315	45	27.3	
GMC 50/BE	G 2	155	395	118	130	150	315	45	28.6	
GMC 50/AE	G 2	155	395	118	130	150	315	45	30.2	

TYPE	ISO 228	mm										kg	
		a1	fM	j1	l1	l2	l5	l5	Lmax	Lmin	p	Weight	
GMCM 50/CE	G 2	155	395	530	118	130	150	315	500	180	45	28	
GMCM 50/BE	G 2	155	395	530	118	130	150	315	500	180	45	31	

weights With cable length: 10 m

Dimensions and weights



DN	DE	DK	N.	Ø f	DG	N.	M
65	185	145	4	18	118	4	M8

TYPE		mm								kg
	DN2	a1	fM	h2	l1	l2	l5	l5	p	Weight
GMV 50-65C	65	100	400	-	118	130	180	304	50	27.2
GMV 50-65B	65	100	400	180	118	130	180	304	50	28.1
GMV 50-65A	65	100	400	180	118	130	180	304	50	29.8

TYPE		mm											kg
	DN2	a1	fM	h2	j1	l1	l2	l5	l5	Lmax	Lmin	p	Weight
GMVM 50-65C	65	100	400	180	530	118	130	180	304	505	85	50	29.4
GMVM 50-65B	65	100	400	180	530	118	130	180	304	505	85	50	29.7

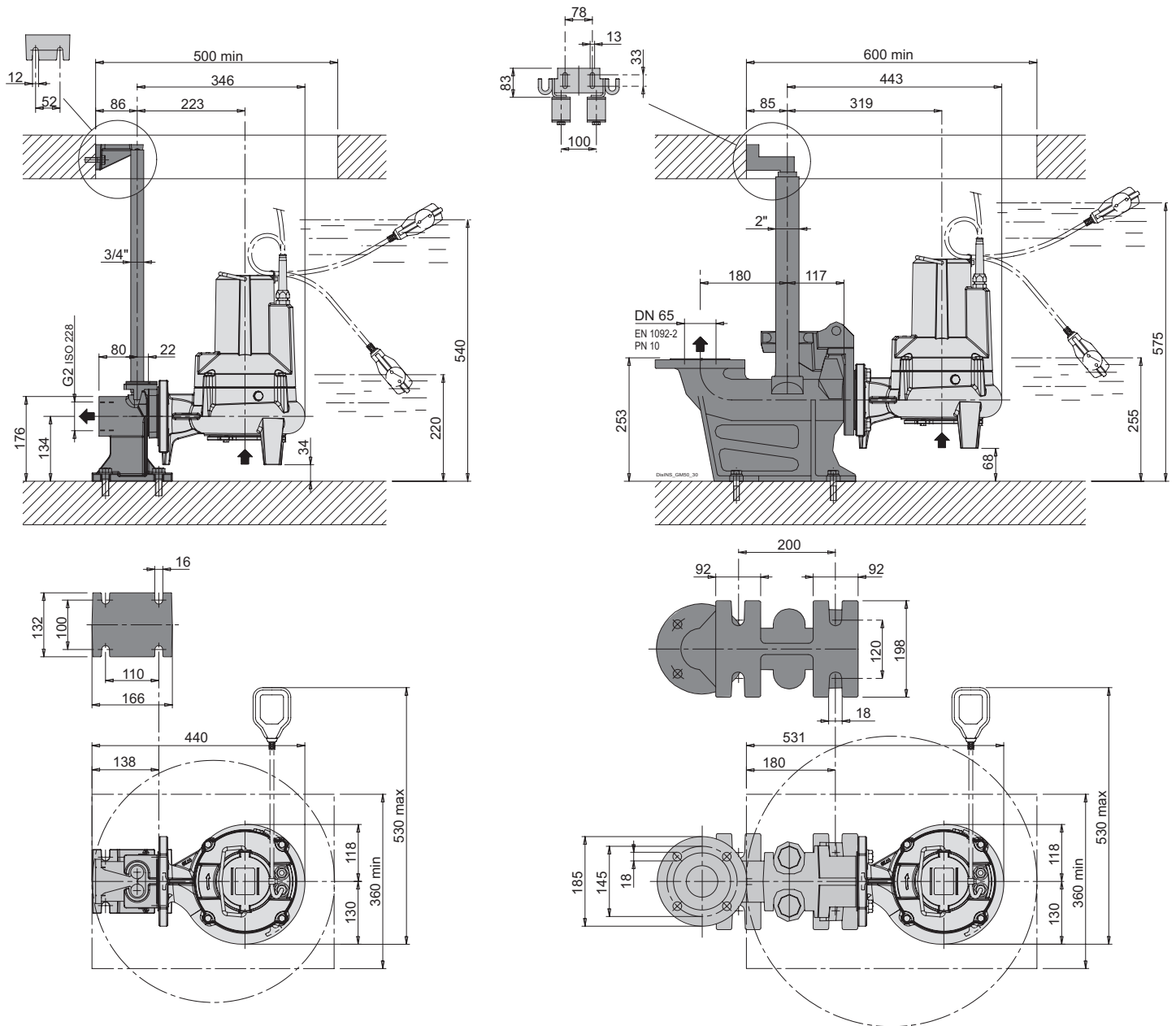
TYPE		mm								kg
	DN2	a1	fM	h2	l1	l2	l5	l5	p	Weight
GMC 50-65C	65	100	400	180	118	130	180	304	45	28
GMC 50-65B	65	100	400	180	118	130	180	304	45	29.1
GMC 50-65A	65	100	400	180	118	130	180	304	45	30.7

TYPE		mm											kg
	DN2	a1	fM	h2	j1	l1	l2	l5	l5	Lmax	Lmin	p	Weight
GMCM 50-65C	65	100	400	180	530	118	130	180	304	505	85	45	28.7
GMCM 50-65B	65	100	400	180	530	118	130	180	304	505	85	45	30.6

weights With cable length: 10 m

GM 50

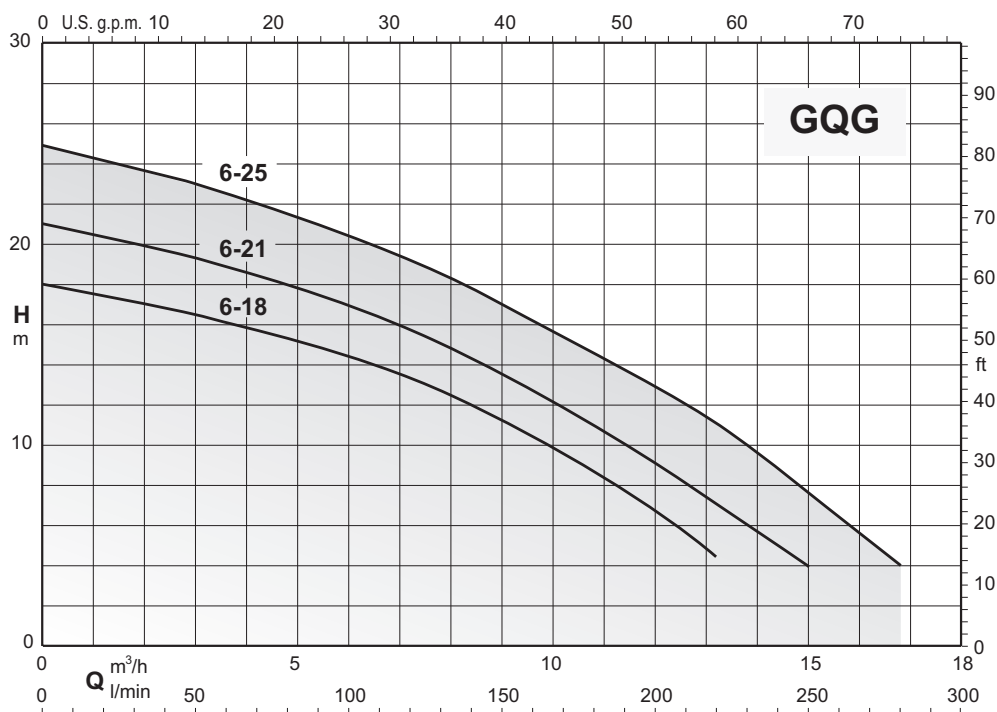
Dimensions with duck foot coupling



GQG

 calpeda®

(patented system)

Coverage chart $n \approx 2900$ rpm

Submersible pumps with high power grinder



Construction

Submersible pumps with high-power grinding system, with threaded horizontal delivery port G 1 1/2 and flanged DN 32 PN 6.
Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

To move water containing long filamentary materials, paper or textile material. They are particularly suitable for use in domestic, residential and industrial installations
Solid passage Ø 6 mm

Operating conditions

Maximum liquid temperature: 35 °C
Immersion depth: 5 m max
Minimum immersion depth: 300 mm.
Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50Hz (n ≈ 2900 1/min).
GQG: three-phase 230V ± 10%
400V ± 10%
GQGM: single-phase 230V ± 10%
With switch and float, thermal protector and control panel with starting capacitors.
H07RN-F cable, 4G1 mm², (4G1.5 mm² for GQGM 6-25), length 10 m.
Insulation class F.
Protection IP X8 (for continuous immersion).
Triple impregnation humidity-proof dry winding
Constructed in accordance with EN 60034-1, EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.
Frequency 60 Hz (as per 60 Hz data sheet).
Other mechanical seal.
Cable length 20 m.
Vertical magnetic float switch.
Three-phase pumps with incorporated float switch.

Designation

Example: GQGM 6-21
GQ = Series
G = Submersible pumps with high power grinder
M = Single-phase (no indication: three-phase)
6 = Passage of solids Ø mm
21 = Total head in m indoors

Materials

Components	Materials
Pump casing	Cast iron GJL 200 EN 1561
Impeller	Cast iron GJL 200 EN 1561
Casing cover	Cast iron GJL 200 EN 1561
Rotating blade	Steel 1.4125 EN 10088 (AISI 440C)
Fixed cutting blade	Steel 1.4125 EN 10088 (AISI 440C)
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Jacket cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene (with frame made of 1.4301 EN 10088 (AISI 304))
Shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Upper mechanical seal	Ceramic / Carbon / NBR
Lower mechanical seal	Ceramic / Carbon / NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Coverage chart n ≈ 2900 rpm

Three-phase

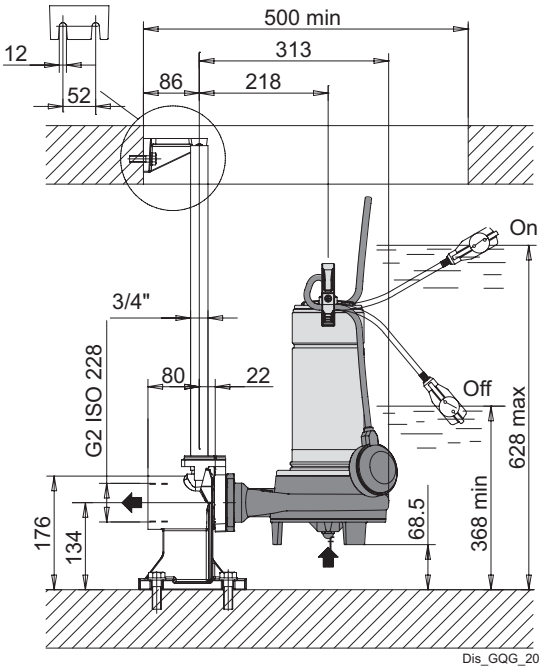
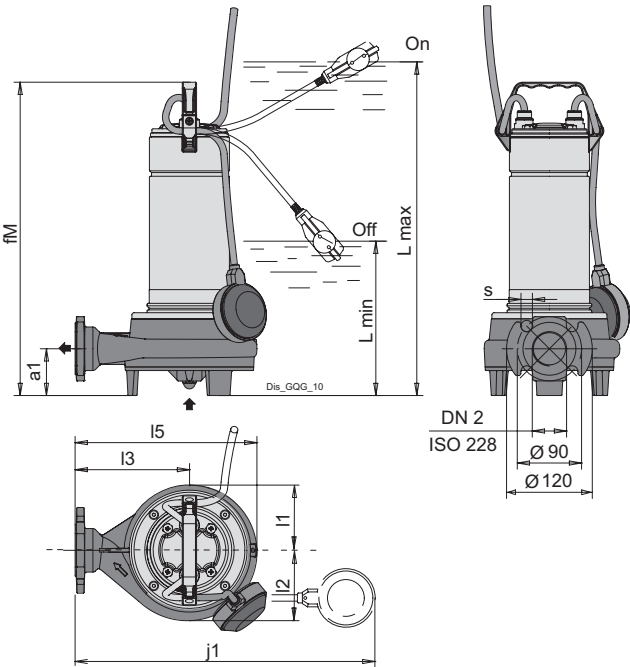
Model				Q = Flow											
				m³/h	0	3	6	9	12	13,2	15	16,8			
				l/min		50	100	150	200	220	250	280			
				H (m) = Total head											
				A	kW	HP									
GQG 6-18				2,3	0,9	1,2		18	16,5	14,5	11,2	6,5	4,5	-	-
GQG 6-21				2,8	1,1	1,5		21	19,2	17	13,5	9	7	4	-
GQG 6-25				3,8	1,5	2		25	23	20,5	17	13	11	7,8	4

Single-phase

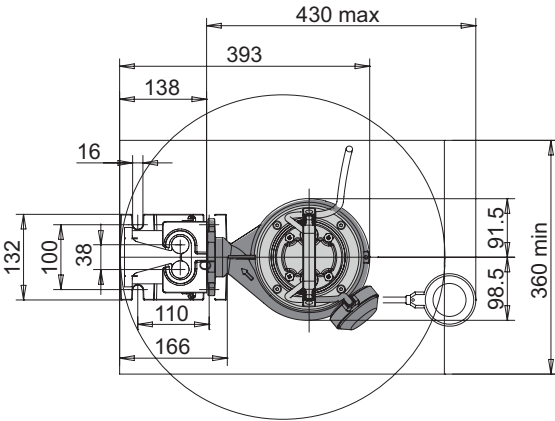
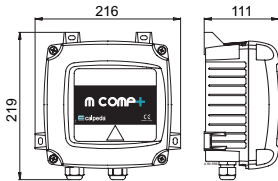
							Q = Flow								
							m³/h	0	3	6	9	12	13,2	15	16,8
Model	230V	Capacitor		P2		P1	l/min		50	100	150	200	220	250	280
	A	Vc	uf	kW	HP	kW	H (m) = Total head								
GQGM 6-18	7	450	30+80	0,9	1,2	1,3		18	16,5	14,5	11,2	6,5	4,5	-	-
GQGM 6-21	7,5	450	30+80	1,1	1,5	1,5		21	19,2	17	13,5	9	7	4	-
GQGM 6-25	9,5	450	30+80	1,5	2	2		25	23	20,5	17	13	11	7,8	4

P1: Maximum power input.
P2: Rated motor power output.
p: Density 1000kg/m³
u: Kinematic viscosity max 20 mm²/sec.

Dimensions and weights



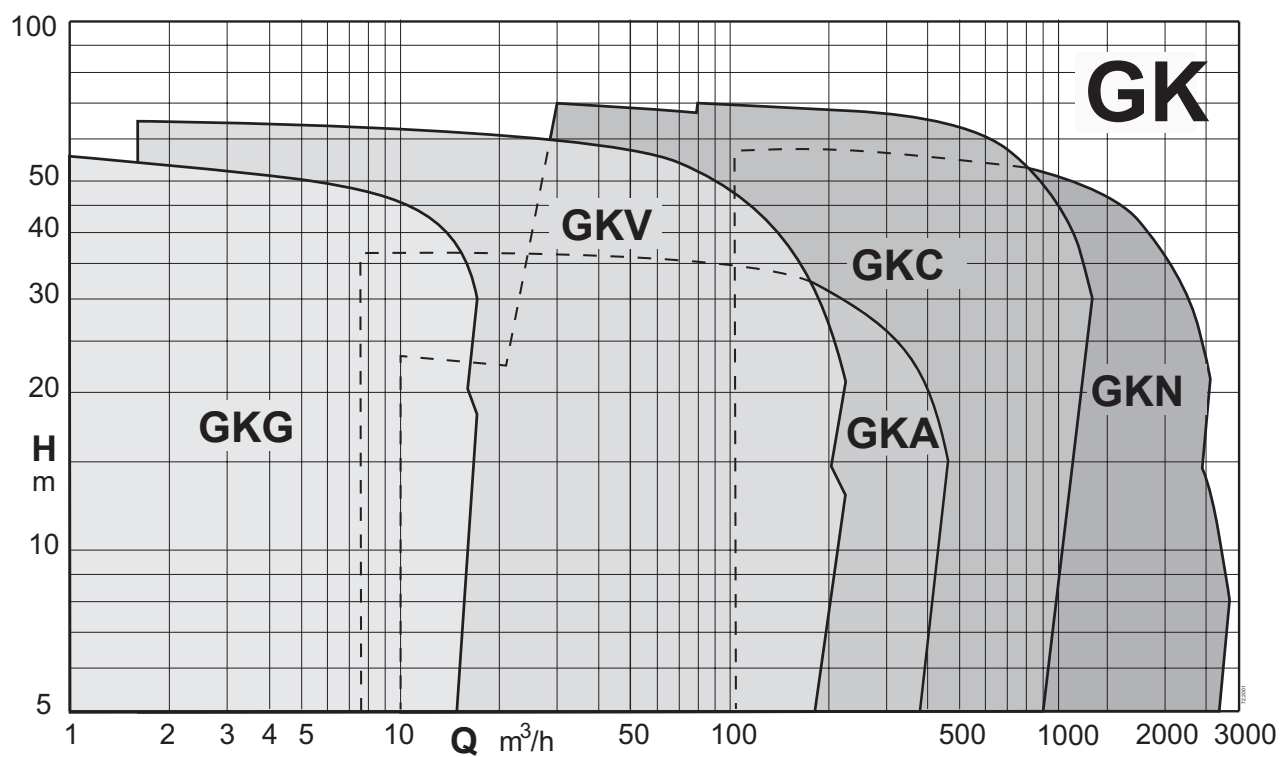
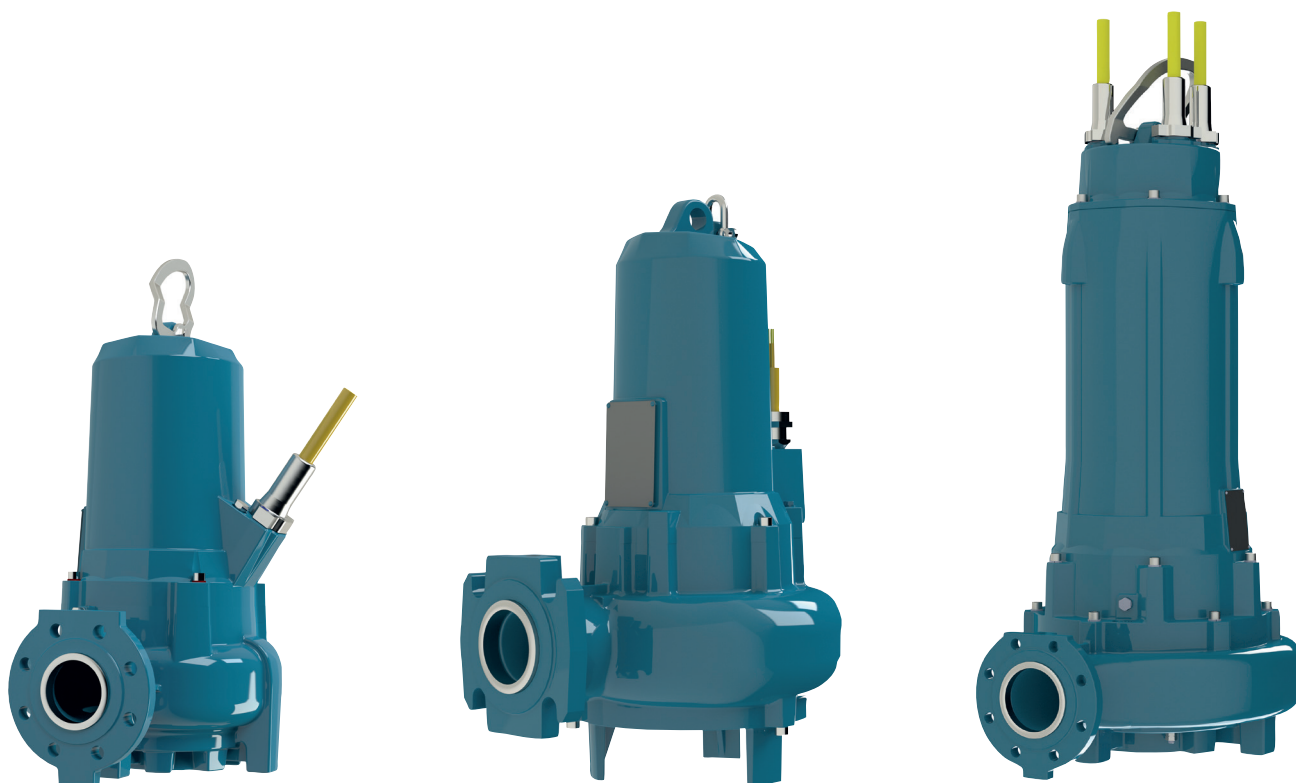
GQGM
Control with box starting capacitors



TYPE	ISO 228 DN2	mm							kg Weight
		a1	fM	h2	l1	l2	l5	s	
GQG 6-18	G1 1/2 (DN32)	65	485	160	91	99	255	16	18.4
GQG 6-21	G1 1/2 (DN32)	65	485	160	91	99	255	16	18.6
GQG 6-25	G1 1/2 (DN32)	65	485	160	91	99	255	16	18.7

TYPE	ISO 228 DN2	mm									kg Weight
		a1	fM	h2	l1	l2	l5	Lmax	Lmin	s	
GQGM 6-18	G1 1/2 (DN32)	65	485	160	91	99	255	560	300	16	21.8
GQGM 6-21	G1 1/2 (DN32)	65	485	160	91	99	255	560	300	16	21.8
GQGM 6-25	G1 1/2 (DN32)	65	485	160	91	99	255	560	300	16	22

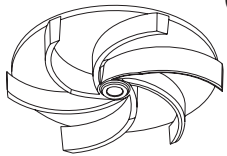
weights With cable length: 10 m



Submersible pumps

Electric pumps of the GK series feature three different hydraulics with the following characteristics.

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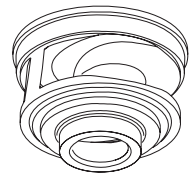


GKV

RETRACTED VORTEX IMPELLER

The impeller offers reliability against clogging due to the feature of wide through passages, and a good resistance to wear thanks to the absence of shimming. The versatility of use compensates for this impellers somewhat lower efficiency. The impeller can be reduced in dimension to offer different characteristics. For water containing a large amount of solids and long fibre, sewage with a high gas and sludge content.

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GKC

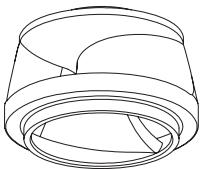
SINGLE-CHANNEL IMPELLER

It offers reliability against clogging and features wide through sections and a good resistance to wear, low mechanical action on the fluid, high hydraulic efficiency.

Particularly suitable for clean water, water containing solid and fibrous solids, cloacal water, sewage and sludge.

Low vibrations thanks to the dynamically balanced impeller.

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GKN

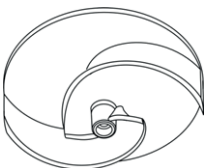
DOUBLE CHANNEL IMPELLER

It offers reliability against clogging and features wide through sections and a good resistance to wear, low mechanical action on the fluid, high hydraulic efficiency.

Particularly suitable for clean water, water containing solid and fibrous solids, cloacal water, sewage and sludge.

Low vibrations thanks to the dynamically balanced impeller.

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GKA

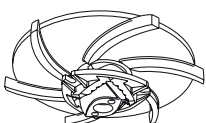
OPEN TWIN BLADE IMPELLER

It offers reliability against clogging and features and a good resistance to wear, low mechanical action on the fluid, high hydraulic efficiency.

Particularly suitable for clean water, water containing solid and fibrous solids, cloacal water, sewage and sludge.

Low vibrations thanks to the dynamically balanced impeller.

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GKG

SHREDDER

Made of very hard stainless steel, the shape of the shredder ensures long-life and fade-free shredding capacity.

Waste water disposal from gas stations, community housing and neighbourhoods.

No particular tools are required to replace this part.



The electric submersible sewage pumps have been specially designed to operate submerged in the pumped fluid. The hydraulic section is close coupled to the electric motor making the pumping unit compact, easy to install and reliable in operation. The pumps are essential in depuration systems and are widely used in the sewage handling facilities of industry and local communities. The GK series electric pumps are designed to pump sewage containing gas, compacted solids and long fibrous material. The pumps can be supplied for fixed or submersible installation with base frame. The design has paid particular attention to achieving a good overall efficiency to ensure that the pumps are as cheap as possible to run.

MOTOR

Asynchronous, three-phase with squirrel-cage rotor.

The motor is cooled by the fluid in which it is submerged or by a forced cooling system.

The motor is separated from the pump by a large chamber partially filled with oil that acts as a lubricant for the mechanical seals and as a heat exchanger.

Ensure compliance with the minimum head value given with the dimensions of each individual electric pump in order to ensure that the motor is correctly cooled, the exception being made for motors with forced cooling.

SUPPORTS

The shaft of the motor, on the extension of which the impeller is mounted, is guided by two bearings prelubricated with grease; the lower one supports the axial thrust.

The rotating assembly is very compact, with a short overhung pump shaft which reduces bearing loads and ensures reliability and long life.

MECHANICAL SEALS

The double mechanical seal (mounted in series) is a dual protection safeguarding the electric motor.

If the seal on the pump side becomes faulty, the motor will not be damaged thanks to the second seal on the motor side.

These seals are made of particularly suitable materials able to withstand heavy-duty conditions; the pump side seal is made with abrasionproof materials.

SAFE OPERATION

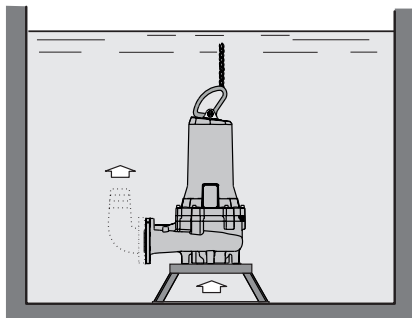
- The conductivity sensor in the oil chamber warns if there is water and transmits the relative signal to the appropriately preset electric panel.

This checks that the mechanical seals on the pump side operate correctly.

- The motor is equipped with thermal probes connected in series in the stator winding.

Should over-temperature conditions occur, the probes automatically cut off the power.

STANDARD INSTALLATIONS

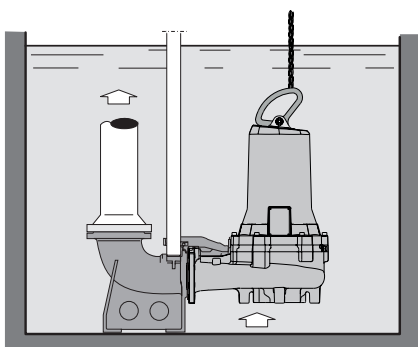


Mobile and emergency immersed installation with support foot

Version only recommended with electric pump installed on a solid and flat support surface and with flexible delivery pipe, particularly suitable for

- all occasional or exceptional uses
- use on site or where mobility is required
- renovation of existing stations with architectural constraints.

The support frame, flexible delivery pipe bend, chain, etc. are available.



Fixed installation with guide chute and automatic coupling base.

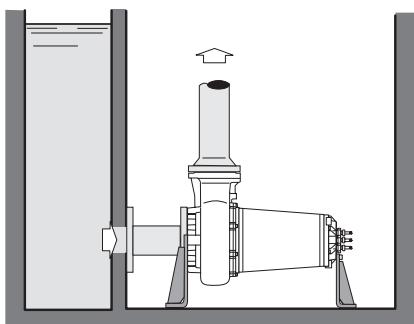
It is the most suitable installation for fixed lifting stations. No special building infrastructures are required and the system is easy to build. The quick coupling allows quick and easy extraction and subsequent repositioning

of the electric pump in the tank, allowing ordinary maintenance or exceptional interventions to be performed in complete safety without having to enter the collection tank. The coupling foot, guide pipes, chain, etc. are available for this installation.

IN A DRY CHAMBER

It is the horizontal or vertical installation that requires a dry chamber, adjacent to the liquid collection tank, to house the electric pump unit.

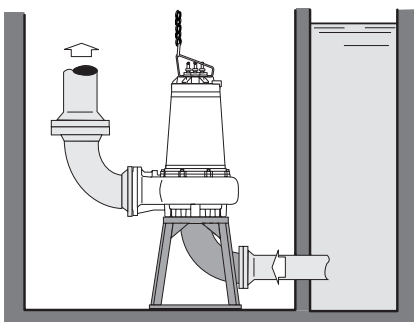
Compared to traditional non-submersible machines, it has maximum operating safety and absence of risks even in the event that the dry chamber is submerged in liquid. Support stands are available.



HORIZONTAL

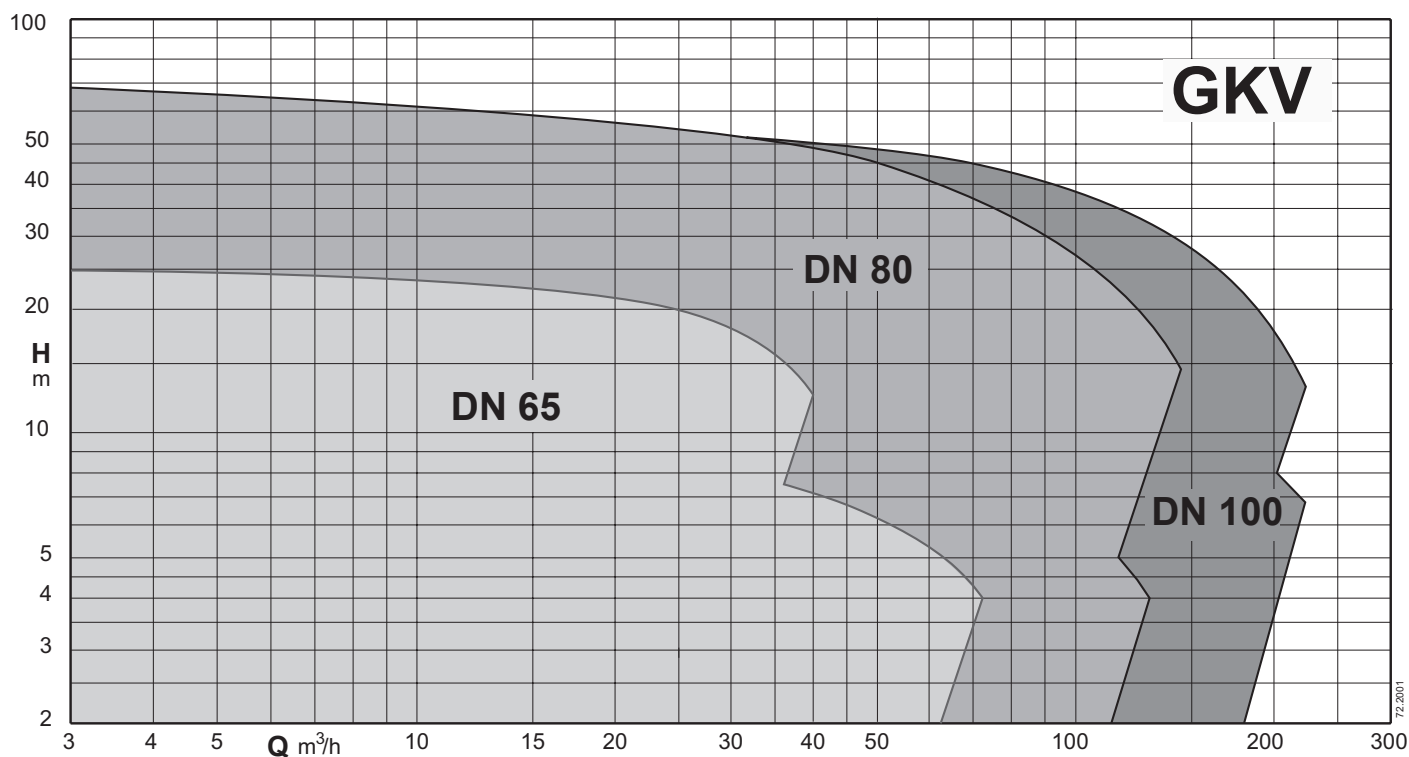
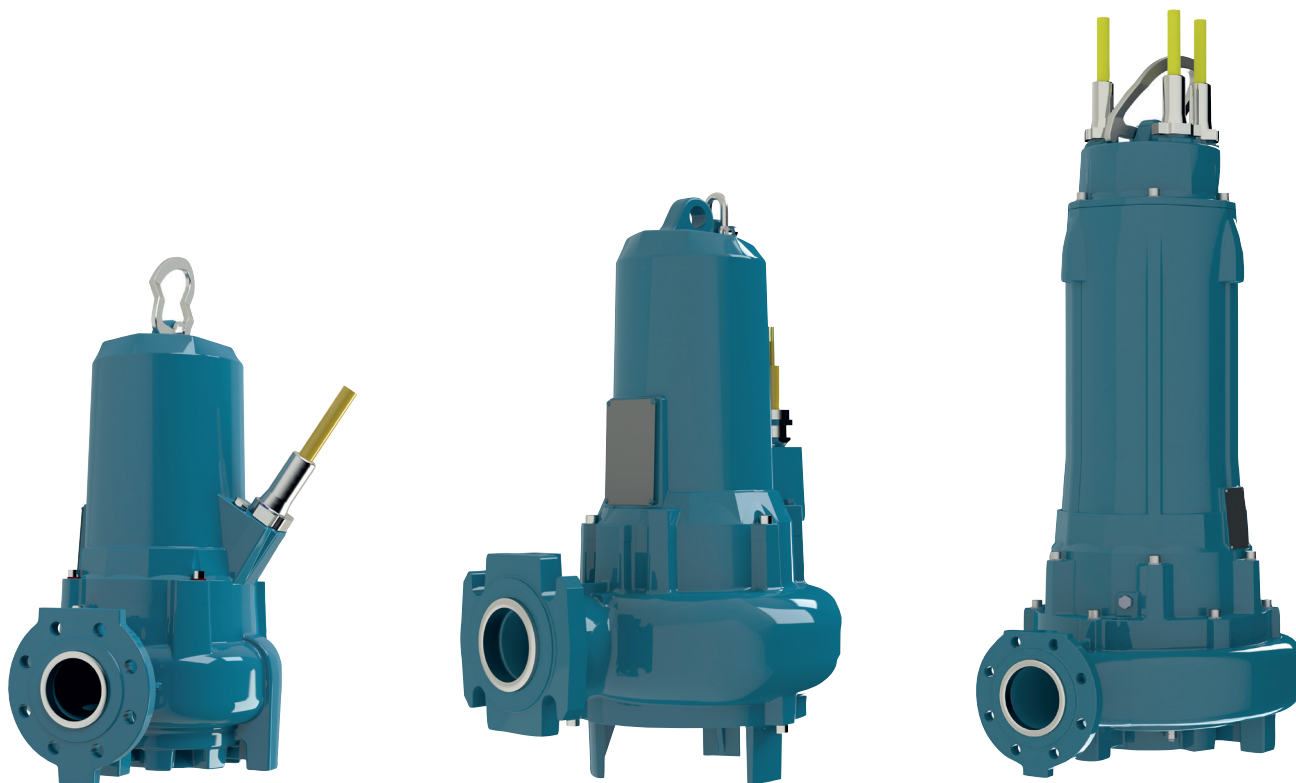
With outlet vent pointing upwards. The electric pump is attached with support brackets.

This arrangement requires a limited number of special pieces. The suction is horizontal and the delivery is vertical with a limited overall height.



VERTICAL

This arrangement allows for maximum ease of inspection and maintenance, the suction and delivery are horizontal and it ensures minimum overall dimensions in plan configuration



Submersible pumps with vortex impeller



Construction

Submersible pumps with vortex impeller.

The impeller offers reliability against clogging due to the feature of wide through passages, and a good resistance to wear thanks to the absence of shimming.

The versatility of use compensates for this impellers somewhat lower efficiency. The impeller can be reduced in dimension to offer different characteristics.

Delivery port DN 65-80-100.

Applications

For waste water and sewage with suspended bodies and with the presence of filamentous bodies, they are particularly suitable for the emptying of wells or primary collection tanks and septic tanks in domestic, residential and industrial installations.

Solid passage from 40 to 100mm

Operating conditions

Liquid temperature: from 0°C to +40°C.

Maximum immersion depth: 20m (with cable of suitable length).

Maximum working pressure: 80 m.w.c.

pH of the liquid to be lifted: 4 ÷ 10

Continuous service (with water at minimum immersion level).

Materials

Pump casing: cast iron EN-GJL250 UNI-EN 1561-11

Impeller: cast iron EN-GJL250 UNI-EN 1561-11

Motor casing: cast iron EN-GJL250 UNI-EN 1561-11

Shaft: stainless steel X20Cr13 (AISI420)

Motor side mechanical seal: graphite/ceramic

Pump side mechanical seal: silicon carbide/ceramic

Motor

Induction motor with 2, 4 or 6 poles, 50Hz.

Three-phase version: 400V ± 10% up to 4.8 kW
400/690V ± 10% from 5.8 kW

Isolation class: H

Degree of protection: IP 68

Max number of starts per hour:

- 20 up to 5 kW
- 15 up to 10 kW
- 10 for higher powers

Cable: length 10m

Direction of rotation: clockwise top view

Motor suitable for operation with frequency converter.

Special features on request

(Check feasibility according to the model with our Technical Sales Office)

Impeller in stainless steel AISI 316 or bronze.

Bronze impeller seat ring.

Cable length up to 40 m

Other mechanical seal.

Higher or lower liquid or ambient temperatures.

Ceramic coating.

Internal anti-erosion coating, external anti-corrosion.

Designation

GKV4 65-55D-0021F

GK = Series

V = Vortex impeller

4 = Number of poles

65 = Delivery port diameter in mm

55 = Free passage in mm

D = Impeller trim

0021 = Motor size kW x 10

F = Size of electric motor flange

Technical data

TYPE	Dry chamber version		Probes		Cable		Class	Duck foot coupling	Submersible pump rest	Dry chamber pump rest	Dry chamber pump support
	Vertical	Horizontal	thermal	conductivity	NSSHOU-J	H07RN-F	Isolation /Efficiency				
GKV4 65-55G-0016F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	-	-	-
GKV4 65-55D-0021F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	-	-	-
GKV4 65-55A-0026F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	-	-	-
GKV2 65-40L-0020F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	-	-	-
GKV2 65-40G-0025F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	-	-	-
GKV2 65-40A-0031F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	-	-	-
GKV2 65-40D-0031F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	-	-	-
GKV6 80-80P-0015H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 80-80M-0015H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 80-80I-0015H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 80-80E-0015H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 80-80A-0015H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80P-0016H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80M-0016H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80I-0021H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80H-0029H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80E-0037H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80C-0046H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80A-0058H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80V-0048H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80X-0048H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80Z-0048H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80N-0065H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80P-0065H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80Q-0065H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80R-0065H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80T-0065H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80W-0048H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80W-0065H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3

• = Standard
- = Not present

o = Optional

= Version with oil chamber

= In case of operation in a dry chamber or with a low level of the pumped liquid, it is necessary to introduce the cooling oil according to the quantities indicated in the use and maintenance manual

Technical data

TYPE	Dry chamber version		Probes		Cable		Class	Duck foot coupling	Submersible pump rest	Dry chamber pump rest	Dry chamber pump support
	Vertical	Horizontal	thermal	conductivity	NSSHOU-J	H07RN-F	Isolation				
GKV2 80-80W-0090H	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80T-0090H	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80R-0090H	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80Q-0090H	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80P-0090H	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80N-0090H	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80R-0125L	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80P-0165L	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80L-0165L	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80G-0165L	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80D-0165L	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80A-0165L	#	#	•	•	•	–	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 100-100E-0040L	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV6 100-100C-0040L	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV6 100-100A-0040L	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100R-0021H	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100N-0029H	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100L-0037H	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100F-0046H	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100A-0058H	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100E-0075L	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100C-0105L	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100A-0125L	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV2 100-80L-0260N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKV2 100-80I-0260N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKV2 100-80H-0350N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKV2 100-80G-0350N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKV2 100-80F-0350N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKV2 100-80E-0350N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKV2 100-80D-0350N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–

• = Standard
– = Not present

o = Optional

= Version with oil chamber

= In case of operation in a dry chamber or with a low level of the pumped liquid, it is necessary to introduce the cooling oil according to the quantities indicated in the use and maintenance manual

Performance

n ≈ 1450 1/min

			Q = Flow														
			m³/h	0	2,9	3,6	7,2	10,8	14,4	18	21,5	25,2	28,8	32,4	36	54	72
Model	400V	P2	l/min	0	48,33	60	120	180	240	300	358	420	480	540	600	900	1200
	A	kW	H (m) = Total head														
GKV4 65-55G-0016F	3,7	1,6		7,8	7,7	7,7	7,5	7,3	7,1	6,9	6,6	6,3	5,9	5,5	5,1	2,7	-
GKV4 65-55D-0021F	5,1	2,1		9,3	9,1	9,1	8,9	8,6	8,4	8,1	7,9	7,6	7,4	7,1	6,8	4,8	-
GKV4 65-55A-0026F	5,8	2,6		10,6	10,5	10,4	10,2	10	9,9	9,7	9,4	9,2	8,9	8,7	8,4	6,5	4,1

n ≈ 2850 1/min

			Q = Flow																
			m³/h	0	2,2	2,5	2,9	3,2	3,6	7,2	10,8	14,4	18	21,5	25,2	28,8	32,4	36	39,6
Model	400V	P2	l/min		36,66	41,66	48,33	53,33	60	120	180	240	300	358	420	480	540	600	660
	A	kW	H (m) = Total head																
GKV2 65-40L-0020F	4,1	2		15,8	15	14,9	14,7	14,6	14,5	13,3	12,4	11,6	10,8	10,1	9,3	8,6	7,8	7	6,2
GKV2 65-40G-0025F	5,5	2,5		17,4	16,9	16,8	16,7	16,6	16,6	15,7	14,9	14,2	13,5	12,8	12,1	11,3	10,4	9,5	8,5
GKV2 65-40A-0031F	5,6	3,1		26,8	-	-	-	-	-	24,5	23,4	22,3	21,2	20,1	18,9	-	-	-	-
GKV2 65-40D-0031F	5,6	3,1		22,7	22	21,9	21,8	21,7	21,6	20,6	19,6	18,6	17,7	16,8	15,9	14,8	13,8	12,7	11,6

n ≈ 950 1/min

			Q = Flow															
			m³/h	0	2,2	2,9	3,6	7,2	10,8	14,4	18	21,5	25,2	28,8	32,4	36	54	72
Model	400V	P2	l/min		36,66	48,33	60	120	180	240	300	358	420	480	540	600	900	1200
	A	kW	H (m) = Total head															
GKV6 80-80P-0015H	3,4	1,5		3,1	3,1	3,1	3	2,9	2,7	2,5	2,2	2	1,7	1,4	1	0,6	-	-
GKV6 80-80M-0015H	3,4	1,5		4,1	4	4	4	3,8	3,6	3,4	3,2	2,9	2,7	2,4	2,1	1,8	-	-
GKV6 80-80I-0015H	3,4	1,5		4,7	4,6	4,6	4,6	4,4	4,3	4,1	3,9	3,7	3,4	3,2	2,9	2,7	1,4	-
GKV6 80-80E-0015H	3,4	1,5		6,1	6	6	6	5,8	5,6	5,4	5,2	5	4,8	4,6	4,4	4,2	2,9	1,4
GKV6 80-80A-0015H	3,4	1,5		7,6	7,5	7,4	7,4	7,2	7	6,7	6,5	6,3	6,1	5,9	5,7	5,4	4,2	2,7

n ≈ 1450 1/min

						Q = Flow													
						m³/h	0	2,9	3,6	7,2	14,4	21,5	28,8	36	54	72	90	108	126
Model	400V	400V	690V	P2	P2	l/min	0	48,33	60	120	240	358	480	600	900	1200	1500	1800	2100
	A	A	A	kW	HP	H (m) = Total head													
GKV4 80-80P-0016H	3,4	-	-	1,6	-		6,9	6,8	6,8	6,6	6,1	5,4	4,6	3,7	-	-	-	-	-
GKV4 80-80M-0016H	3,4	-	-	1,6	-		9,4	9,2	9,1	8,9	8,3	7,8	7,2	6,4	4,3	-	-	-	-
GKV4 80-80I-0021H	5,0	-	-	2,1	-		10,9	10,8	10,7	10,5	10	9,5	8,8	8,1	6,2	4,1	-	-	-
GKV4 80-80H-0029H	6,1	-	-	2,9	-		12,4	12,2	12,2	11,9	11,4	10,9	10,2	9,6	7,7	5,6	3,3	-	-
GKV4 80-80E-0037H	7,7	-	-	3,7	5		14,1	13,9	13,8	13,5	12,9	12,3	11,7	11,1	9,6	7,7	5,6	3	-
GKV4 80-80C-0046H	9,5	-	-	4,6	-		15,7	15,5	15,5	15,2	14,6	14	13,4	12,7	11,1	9,4	7,6	5,7	-
GKV4 80-80A-0058H	-	11,9	6,9	5,8	-		17,3	17	16,9	16,6	15,8	15	14,3	13,6	12,1	10,5	8,7	6,5	4,2

n ≈ 2850 1/min

					Q = Flow																
					m³/h	0	1,4	2,2	2,9	3,6	7,2	10,8	14,4	18	21,5	25,2	28,8	32,4	36	54	72
Model	400V	690V	P2	l/min	0	23,33	36,66	48,33	60	120	180	240	300	358	420	480	540	600	900	1200	
	A		kW	H (m) = Total head																	
GKV2 80-80V-0048H	8,9	-	-	4,8		19,5	19,5	19,4	19,4	19,4	19,1	18,8	18,3	17,9	17,3	16,8	16,2	15,6	15	-	-
GKV2 80-80X-0048H	8,9	-	-	4,8		17	17	16,9	16,9	16,9	16,6	16,2	15,8	15,4	15	14,5	14,1	13,6	13,1	10,5	-
GKV2 80-80Z-0048H	8,9	-	-	4,8		14	14	13,9	13,9	13,9	13,6	13,3	12,9	12,5	12	11,5	11	10,5	9,9	6,6	-
GKV2 80-80W-0048H	8,9	-	-	4,8		25,1	25	24,9	24,8	24,8	24,4	24	23,5	23,1	22,5	22	21,3	20,6	-	-	-
GKV2 80-80N-0065H	-	11,9	6,9	6,5		34,9	34,8	34,8	34,8	34,8	34,6	34,2	33,5	32,6	31,7	-	-	-	-	-	-
GKV2 80-80P-0065H	-	11,9	6,9	6,5		28,8	28,6	28,5	28,4	28,3	27,9	27,5	27,1	26,6	26,2	25,7	25,1	24,5	23,9	-	-
GKV2 80-80Q-0065H	-	11,9	6,9	6,5		33,1	33,1	33,1	33,1	33	32,7	32,2	31,7	31,1	30,5	29,9	29,4	-	-	-	-
GKV2 80-80R-0065H	-	11,9	6,9	6,5		30,9	30,8	30,7	30,7	30,6	30,3	30	29,5	28,9	28,3	27,6	27	26,3	25,5	-	-
GKV2 80-80T-0065H	-	11,9	6,9	6,5		26,7	26,6	26,6	26,6	26,5	26,2	25,9	25,4	24,9	24,3	23,7	23,1	22,4	21,7	18,2	-
GKV2 80-80W-0065H	-	11,9	6,9	6,5		25,6	25,5	25,5	25,5	25,4	25,1	24,7	24,2	23,6	23	22,4	21,7	21,1	20,4	16,6	12,3

Performance

n ≈ 2850 1/min

Model				Q = Flow																				
				m³/h	0	1,4	2,2	2,9	3,2	3,6	7,2	14,4	21,5	28,8	36	54	72	90	108	126	144			
				l/min		23,33	36,66	48,33	53,33	60	120	240	358	480	600	900	1200	1500	1800	2100	2400			
				A	kW	H (m) = Total head																		
GKV2 80-80W-0090H	16,3	9,4	9		25,5	-	-	-	25,2	25,2	24,9	24	22,9	21,6	20,3	16,9	13,5	10,4	7,6	4,9	-			
GKV2 80-80T-0090H	16,3	9,4	9		26,6	-	-	-	26,3	26,3	25,9	25,1	24	22,9	21,6	18	14,5	11,2	8,3	-	-			
GKV2 80-80R-0090H	16,3	9,4	9		30,7	-	-	-	30,4	30,4	30,1	29,2	28	26,8	25,4	21,6	17,7	13,9	10,3	-	-			
GKV2 80-80Q-0090H	16,3	9,4	9		33	-	-	-	32,7	32,7	32,3	31,4	30,2	28,8	27,2	23,1	19	15	-	-	-			
GKV2 80-80P-0090H	16,3	9,4	9		28,7	-	-	-	28,4	28,4	28,1	27,2	26,2	25	23,6	19,9	16	12,5	9,4	-	-			
GKV2 80-80N-0090H	16,3	9,4	9		34,9	-	-	-	34,8	34,7	34,5	33,5	32	30,4	28,9	25,6	-	-	-	-	-			
GKV2 80-80R-0125L	22,4	12,9	12,5		33,3	33,2	33,1	33,1	-	33	32,7	31,9	31	29,9	28,7	25,3	21,5	17,8	14,3	11,2	8,4			
GKV2 80-80P-0165L	31	17,9	16,5		41,8	41,7	41,7	41,6	-	41,6	41,5	40,7	39,6	38,3	36,9	33,2	29,3	25,5	21,8	18,1	14,1			
GKV2 80-80L-0165L	31	17,9	16,5		47,7	47,6	47,6	47,6	-	47,5	47,3	46,5	45,5	44,3	43	39,7	36,5	33,1	-	-	-			
GKV2 80-80G-0165L	31	17,9	16,5		55,2	55,2	55,1	55,1	-	55,1	54,9	54,2	53,1	51,7	50,3	46,6	-	-	-	-	-			
GKV2 80-80D-0165L	31	17,9	16,5		61,5	61,4	61,4	61,3	-	61,2	60,8	59,8	58,2	56,1	53,7	-	-	-	-	-	-			
GKV2 80-80A-0165L	31	17,9	16,5		67,7	67,6	67,5	67,4	-	67,3	66,7	65,2	-	-	-	-	-	-	-	-	-			

n ≈ 950 1/min

Model			Q = Flow														
			m³/h	0	7,2	14,4	21,5	28,8	36	54	72	90	108	126	144		
			l/min		120	240	358	480	600	900	1200	1500	1800	2100	2400		
			400V	P2	H (m) = Total head												
			A	kW													
GKV6 100-100E-0040L			9	4		7,3	7,1	6,9	6,6	6,3	6	5,2	4,2	3,1	1,7	-	-
GKV6 100-100C-0040L			9	4		8,3	8,1	7,9	7,7	7,4	7,2	6,4	5,5	4,5	3,3	2,1	0,7
GKV6 100-100A-0040L			9	4		10,1	9,8	9,5	9,2	8,9	8,6	7,9	7,2	6,4	5,4	4,3	2,9

n ≈ 1450 1/min

					Q = Flow																
					m³/h	0	7,2	14,4	21,5	28,8	36	45	54	63	72	81	90	99	108	117	126
Model	400V		690V	P2	l/min	0	120	240	358	480	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100
	A			kW	H (m) = Total head																
GKV4 100-100R-0021H	5,0	-	-	2,1		7,4	7,2	7	6,8	6,5	6,1	5,7	5,1	4,5	3,8	3,1	2,4	-	-	-	-
GKV4 100-100N-0029H	6,1	-	-	2,9		8,8	8,6	8,3	8,1	7,8	7,5	7,1	6,6	6	5,3	4,6	3,8	2,9	2	-	-
GKV4 100-100L-0037H	7,7	-	-	3,7		10	9,7	9,4	9,2	8,9	8,5	8,1	7,5	6,9	6,3	5,7	5	4,4	3,8	3,1	2,3
GKV4 100-100F-0046H	9,5	-	-	4,6		11,6	11,5	11,3	11,1	10,7	10,4	9,9	9,3	8,8	8,3	7,7	7,1	6,5	5,9	5,2	-
GKV4 100-100A-0058H	-	11.9	6.9	5.8		15	14.5	14.1	13.8	13.4	13.1	12.6	12.2	11.8	11.3	10.8	10.3	9.7	9.1	-	-

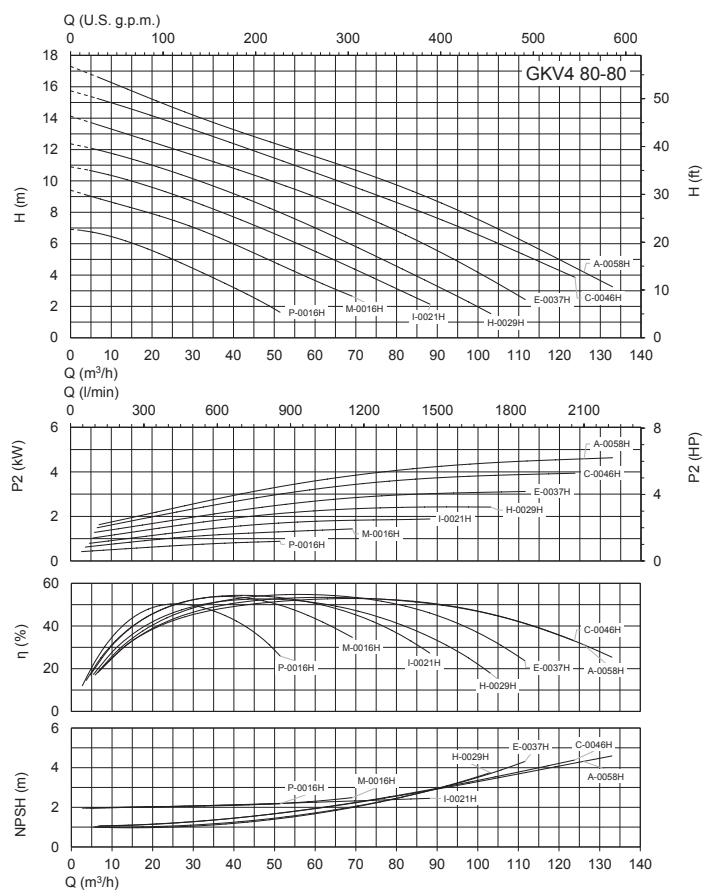
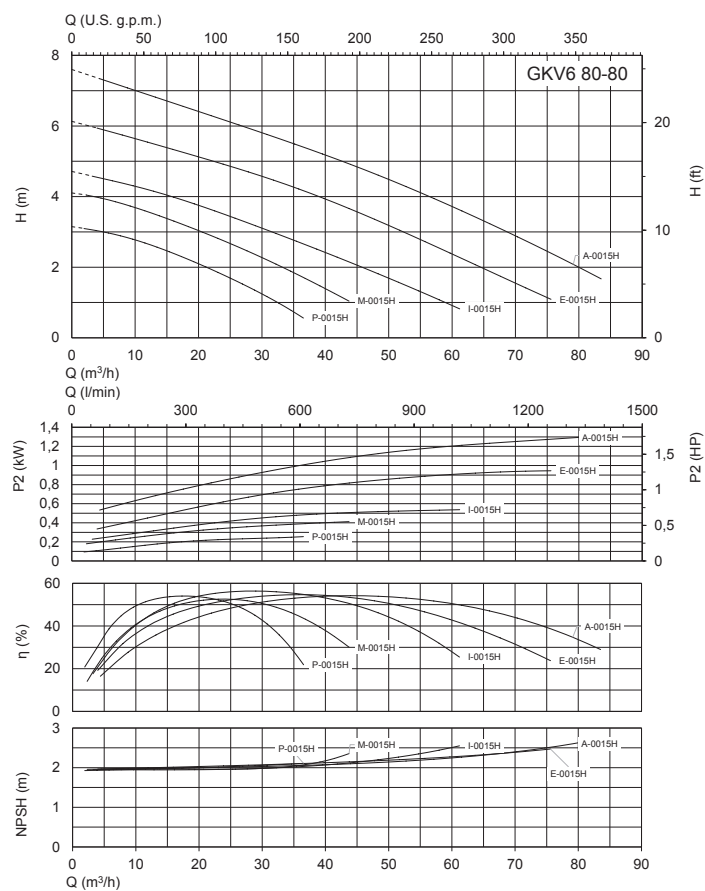
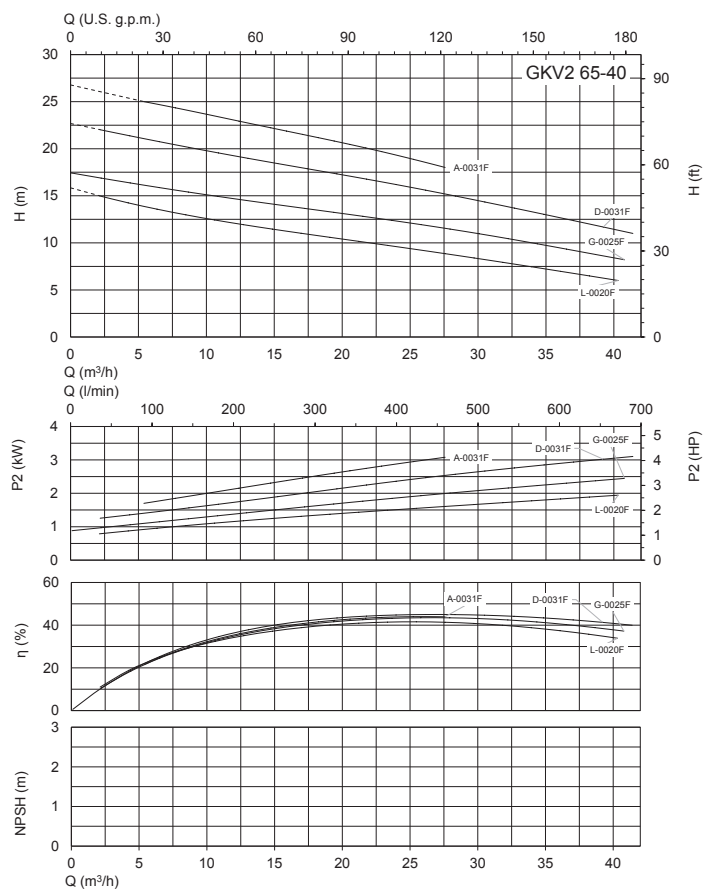
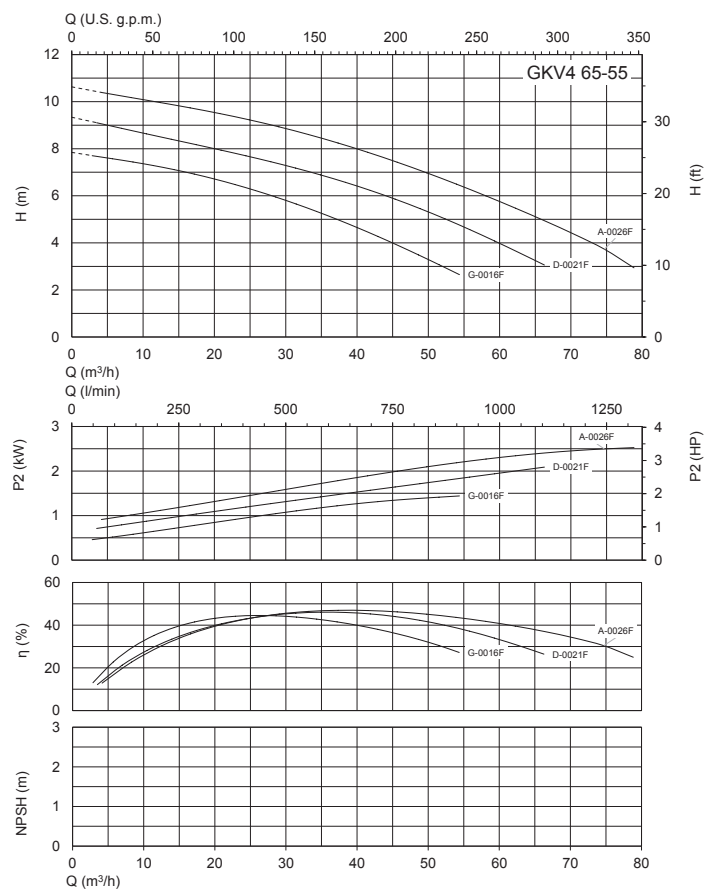
n ≈ 1450 1/min

				Q = Flow														
				m³/h	0	10,8	18	36	54	72	90	108	126	144	162	180	216	
Model	400V	690V	P2	l/min			180	300	600	900	1200	1500	1800	2100	2400	2700	3000	3600
	A		kW	H (m) = Total head														
GKV4 100-100E-0075L	15,3	8,8	7,5		16,6	16,4	16,2	15,2	14	12,7	11,2	9,7	8,2	6,7	5,2	-	-	
GKV4 100-100C-0105L	20	11,5	10,5		18,8	18,5	18,2	17,2	16,1	14,9	13,6	12,2	10,8	9,4	7,8	6,1	-	
GKV4 100-100A-0125L	24	13,9	12,5		23	22,4	22,1	21,1	20	18,9	17,7	16,5	15,3	13,9	12,6	11,1	7,9	

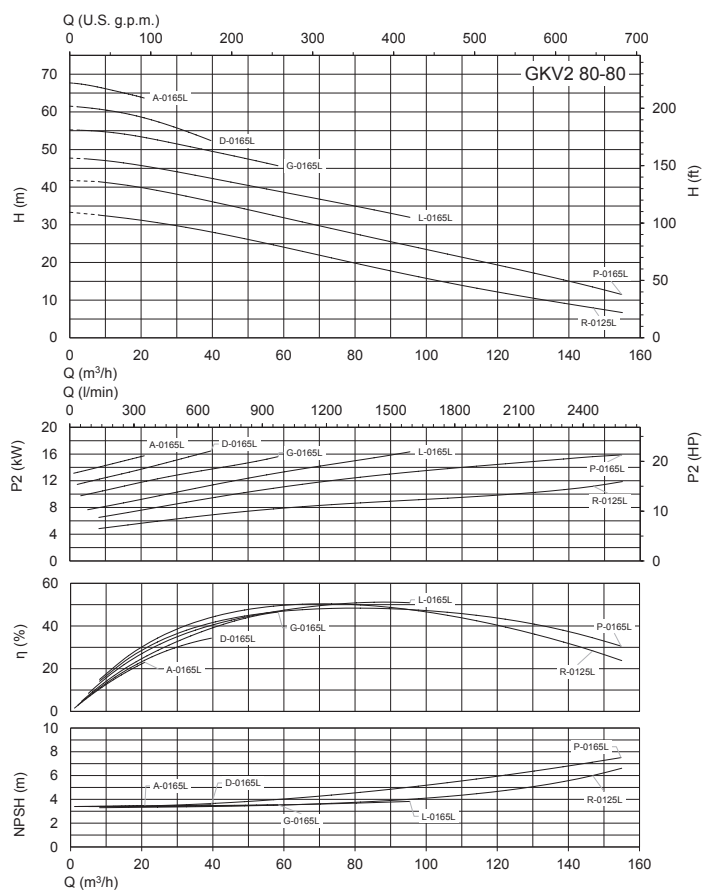
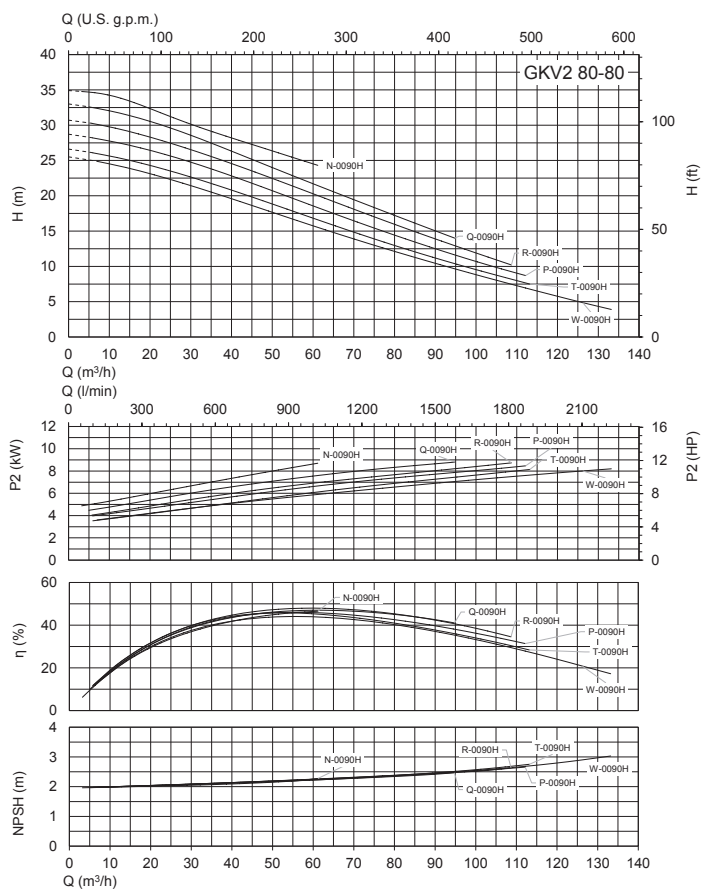
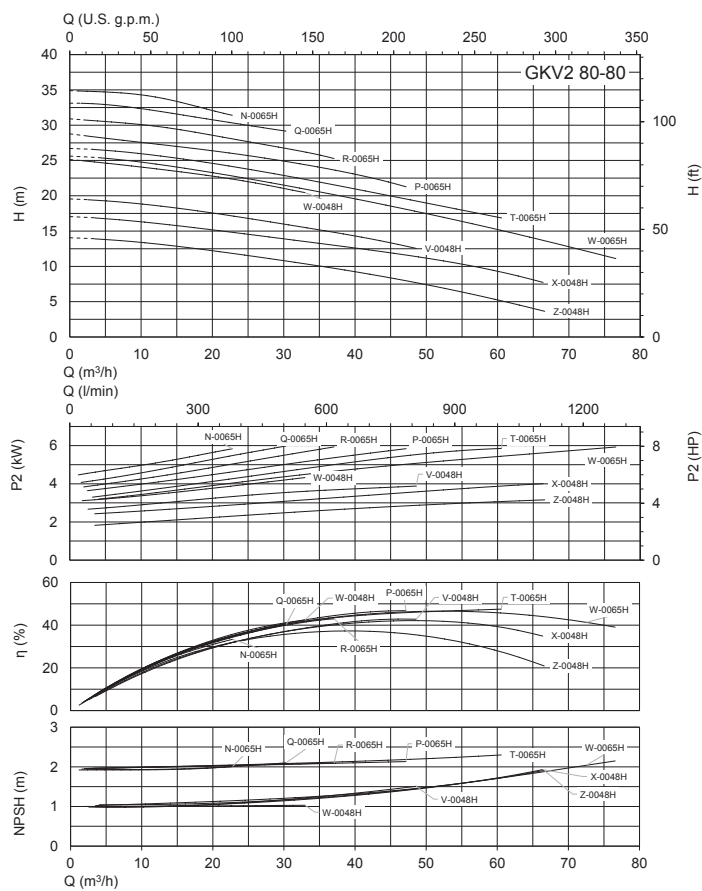
n ≈ 2850 1/min

				Q = Flow																	
				m³/h	0	7,2	14,4	21,5	28,8	36	54	72	90	108	126	144	162	180	198	216	
Model	400V	690V	P2	l/min			120	240	358	480	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
	A		kW	H (m) = Total head																	
GKV2 100-80L-0260N	44,6	25,7	26		29,2	28,8	28,3	27,8	27,3	26,7	25,2	23,5	21,7	19,7	17,6	15,3	12,9	10,4	7,9	-	
GKV2 100-80I-0260N	44,6	25,7	26		35,4	35	34,7	34,2	33,8	33,3	31,8	30,2	28,3	26,2	23,9	21,5	19	16,3	-	-	
GKV2 100-80H-0350N	57,8	33,4	35		40,6	40,1	39,6	39,1	38,6	38,1	36,8	35,4	33,8	32,1	30,1	27,8	25,4	22,7	19,8	16,8	
GKV2 100-80G-0350N	57,8	33,4	35		45,5	45,1	44,6	44,2	43,7	43,2	41,9	40,3	38,5	36,5	34,3	32	29,4	26,7	-	-	
GKV2 100-80F-0350N	57,8	33,4	35		49,7	49,3	48,9	48,5	48,1	47,6	46,1	44,3	42,2	40	37,6	34,9	-	-	-	-	
GKV2 100-80E-0350N	57,8	33,4	35		53,4	53,1	52,7	52,3	51,9	51,4	50	48,3	46,2	43,9	41,5	-	-	-	-	-	
GKV2 100-80D-0350N	57,8	33,4	35		56,3	56	55,7	55,3	54,9	54,4	52,9	51,1	49	46,6	-	-	-	-	-	-	

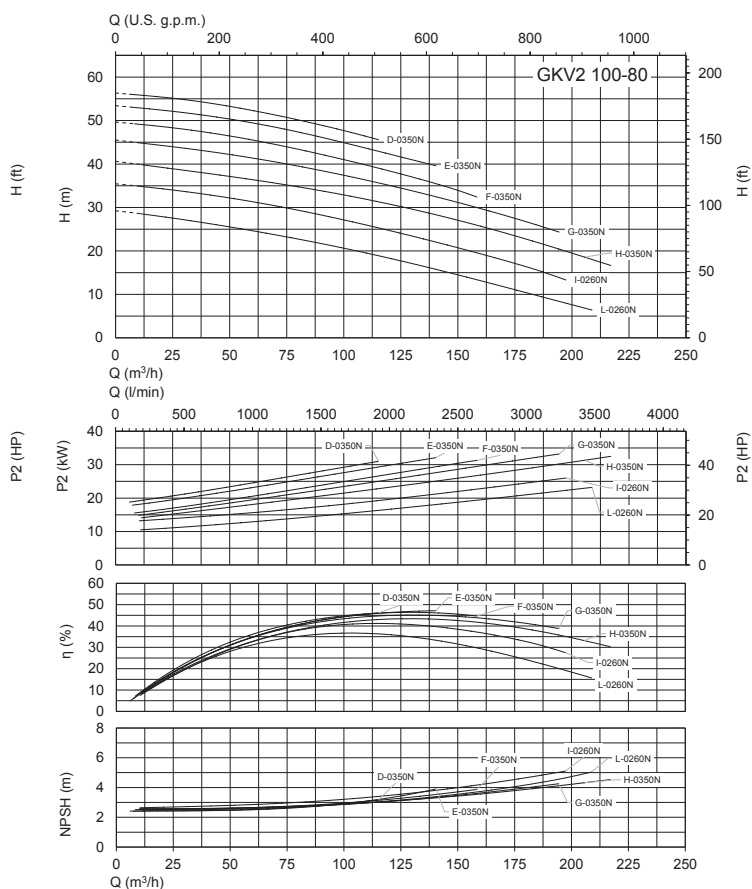
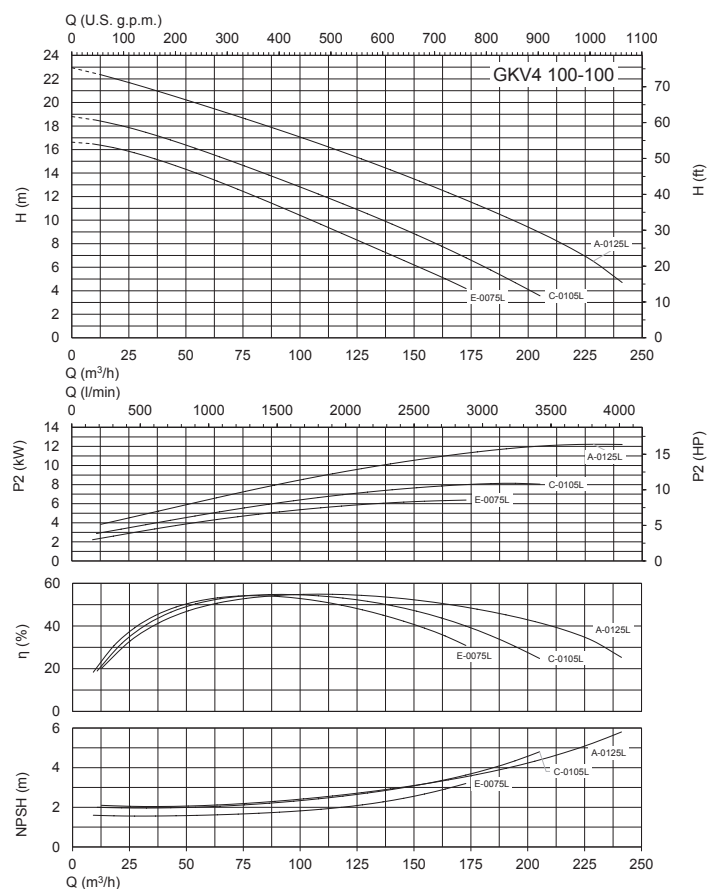
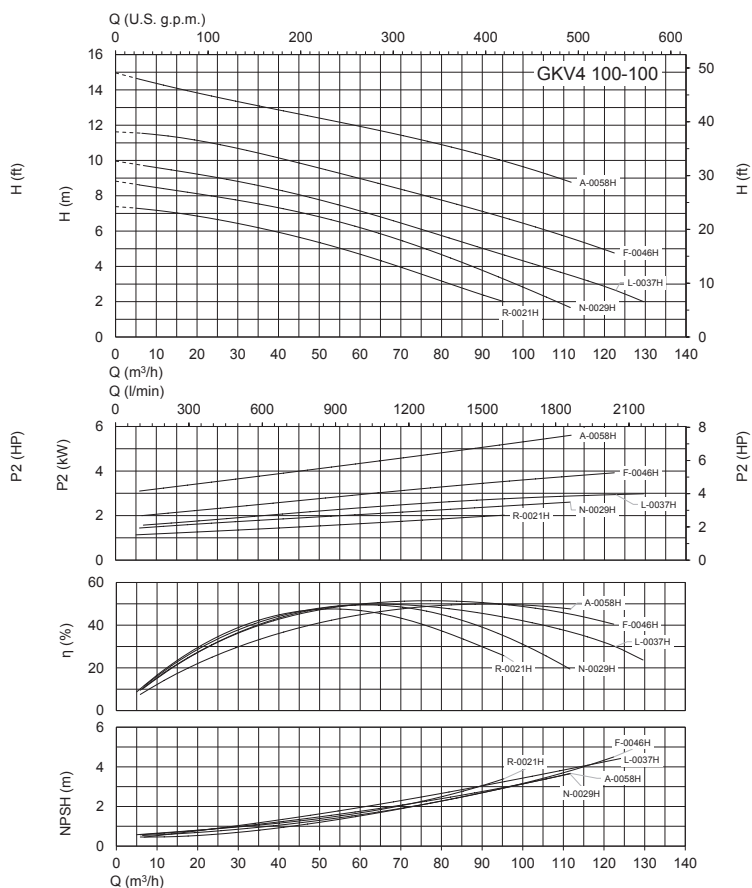
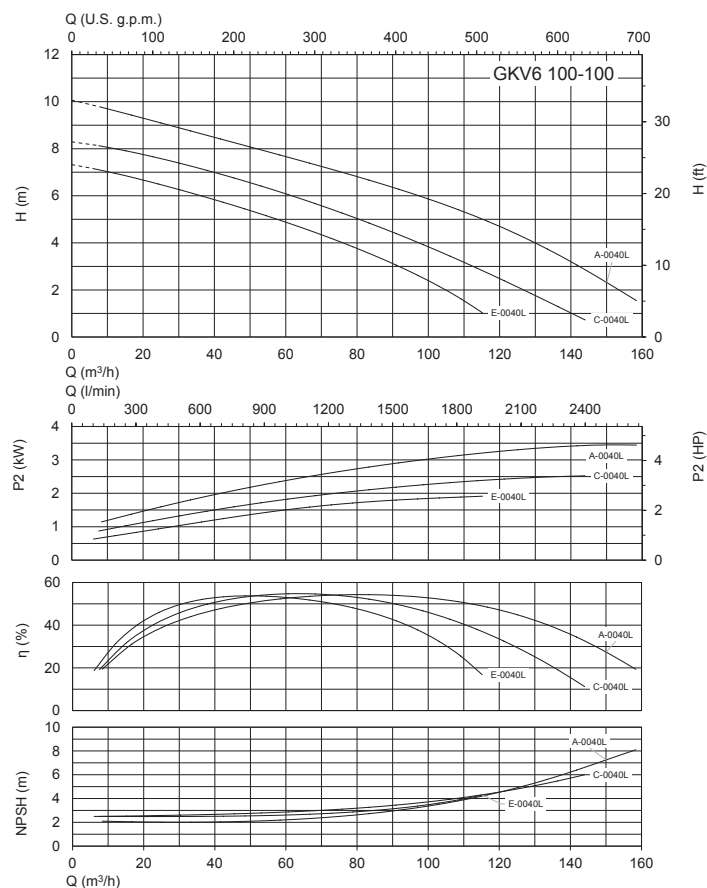
Characteristic curves



Characteristic curves



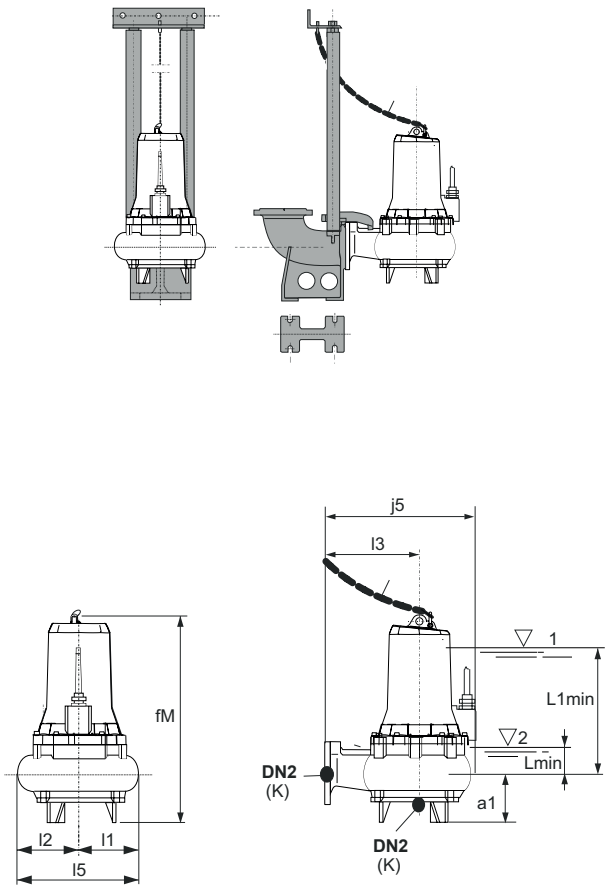
Characteristic curves



Dimensions and weight

Duck foot coupling

SAK



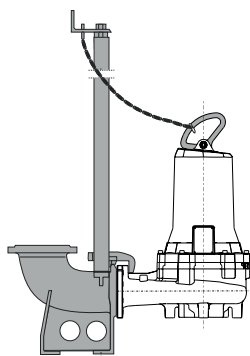
TYPE	DN2	mm										Kg
		a1	fM	j5	K	I1	I2	I5	I5	L1min	Lmin	Weight
GKV4 65-55G-0016F	65	140	565.6	373	16	148	148	225	296	255	90	63
GKV4 65-55D-0021F	65	140	565.6	373	16	148	148	225	296	255	90	63
GKV4 65-55A-0026F	65	140	565.6	373	16	148	148	225	296	255	90	66
GKV2 65-40L-0020F	65	107.5	529.6	363	16	113	113	225	226	282.5	92.5	54
GKV2 65-40G-0025F	65	107.5	529.6	370	16	113	113	225	226	282.5	92.5	56
GKV2 65-40A-0031F	65	107.5	533.6	370	16	113	113	225	226	282.5	92.5	61
GKV2 65-40D-0031F	65	107.5	533.6	370	16	113	113	225	226	282.5	92.5	60

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

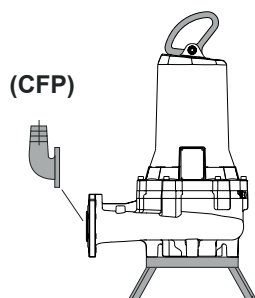
Duck foot coupling

SAK



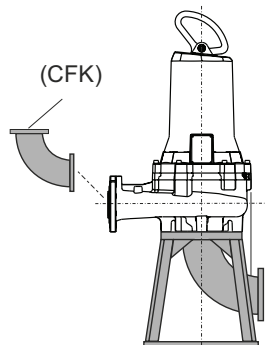
Submersible pump rest

APK



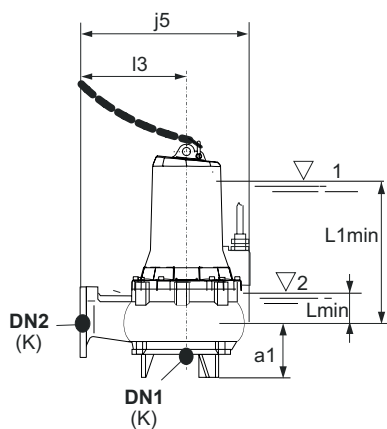
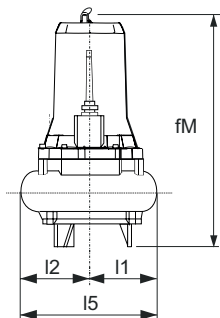
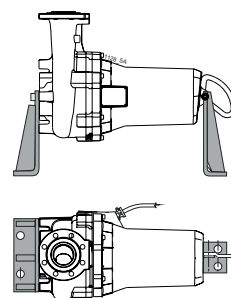
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE			mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	
GKV6 80-80P-0015H	80	80	92	638.3	392	16	204.5	146	245	350.5	315	97	83.6
GKV6 80-80M-0015H	80	80	92	638.3	392	16	204.5	146	245	350.5	315	97	84.5
GKV6 80-80I-0015H	80	80	92	638.3	392	16	204.5	146	245	350.5	315	97	81.6
GKV6 80-80E-0015H	80	80	92	638.3	392	16	204.5	146	245	350.5	315	97	86.6
GKV6 80-80A-0015H	80	80	92	638.3	392	16	204.5	146	245	350.5	315	97	82.7
GKV4 80-80P-0016H	80	80	92	638.3	392	16	204.5	146	245	350.5	315	97	87.8
GKV4 80-80M-0016H	80	80	92	638.3	392	16	204.5	146	245	350.5	315	97	88.7
GKV4 80-80I-0021H	80	80	92	638.3	392	16	204.5	146	245	350.5	315	97	90.2
GKV4 80-80H-0029H	80	80	92	638.3	392	16	204.5	146	245	350.5	315	97	89
GKV4 80-80E-0037H	80	80	92	707.4	392	16	221	146	245	367	349	97	109.5
GKV4 80-80C-0046H	80	80	92	707.4	392	16	221	146	245	367	349	97	109.7
GKV4 80-80A-0058H	80	80	92	707.4	392	16	221	146	245	367	349	97	109

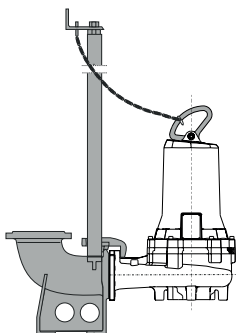
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

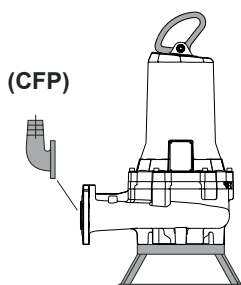
Duck foot coupling

SAK



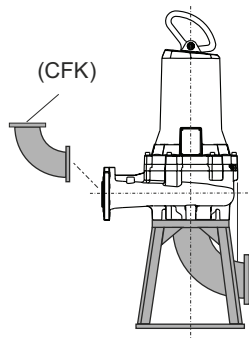
Submersible pump rest

APK



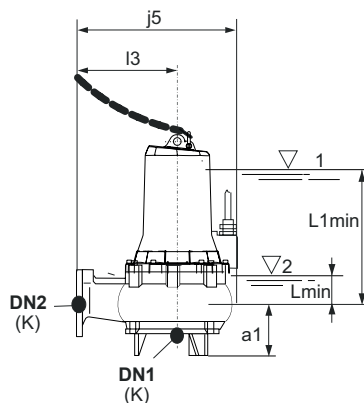
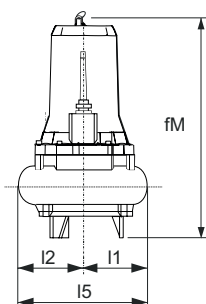
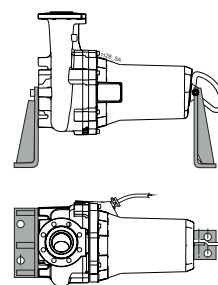
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



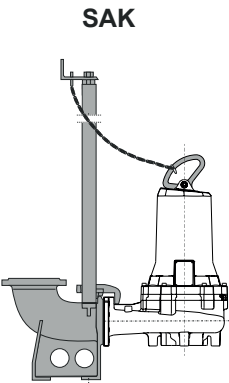
TYPE	mm												Kg
	DN1	DN2	a1	fM	j5	K	I1	I2	I5	I5	L1min	Lmin	Weight
GKV2 80-80V-0048H	80	80	92	638.3	392	16	204.5	146	245	350.5	349	97	92.8
GKV2 80-80X-0048H	80	80	92	638.3	392	16	204.5	146	245	350.5	349	97	92.7
GKV2 80-80Z-0048H	80	80	92	638.3	392	16	204.5	146	245	350.5	349	97	92.5
GKV2 80-80N-0065H	80	80	92	707.4	392	16	221	146	245	367	349	97	112.8
GKV2 80-80P-0065H	80	80	92	707.4	392	16	221	146	245	367	349	97	112.4
GKV2 80-80Q-0065H	80	80	92	707.4	392	16	221	146	245	367	349	97	113
GKV2 80-80R-0065H	80	80	92	707.4	392	16	221	146	245	367	349	97	112.6
GKV2 80-80T-0065H	80	80	92	707.4	392	16	221	146	245	367	349	97	108
GKV2 80-80W-0048H	80	80	92	638.3	392	16	204.5	146	245	350.5	349	97	90
GKV2 80-80W-0065H	80	80	92	707.4	392	16	221	146	245	367	349	97	105
GKV2 80-80W-0090H	80	80	92	707.4	392	16	221	146	245	367	349	97	-
GKV2 80-80T-0090H	80	80	92	707.4	392	16	221	146	245	367	349	97	-
GKV2 80-80R-0090H	80	80	92	707.4	392	16	221	146	245	367	349	97	-
GKV2 80-80Q-0090H	80	80	92	707.4	392	16	221	146	245	367	349	97	-
GKV2 80-80P-0090H	80	80	92	707.4	392	16	221	146	245	367	349	97	-
GKV2 80-80N-0090H	80	80	92	707.4	392	16	221	146	245	367	349	97	108
GKV2 80-80D-0125L	80	80	99	775	543	16	225.5	165	370	390.5	446	98	144.2
GKV2 80-80P-0165L	80	80	99	777.4	543	16	236.5	165	370	401.5	446	98	169
GKV2 80-80L-0165L	80	80	99	777.4	543	16	236.5	165	370	401.5	446	98	169.1
GKV2 80-80G-0165L	80	80	99	777.4	543	16	236.5	165	370	401.5	446	98	169.4
GKV2 80-80D-0165L	80	80	99	777.4	543	16	236.5	165	370	401.5	446	98	169.7
GKV2 80-80A-0165L	80	80	99	777.4	543	16	236.5	165	370	401.5	446	98	163

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

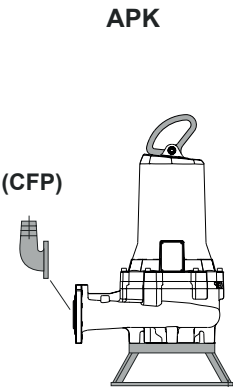
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

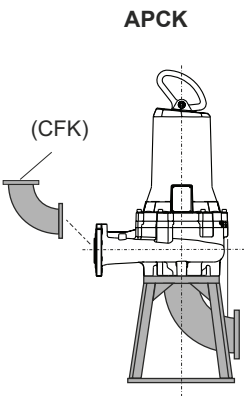
Duck foot coupling



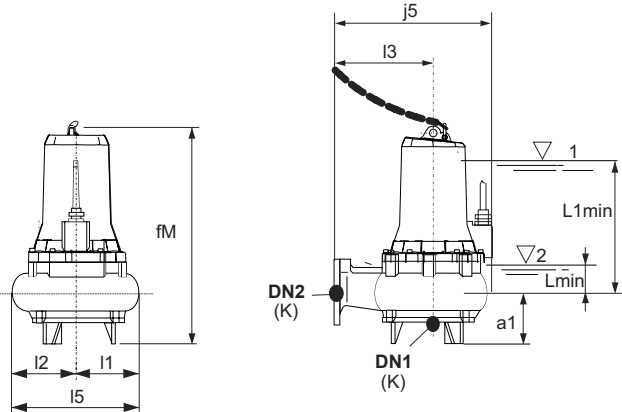
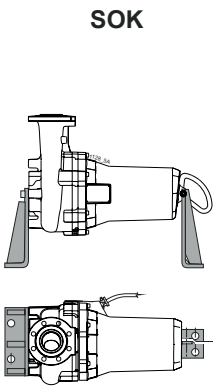
Submersible pump rest



Dry chamber pump rest



Dry chamber pump support



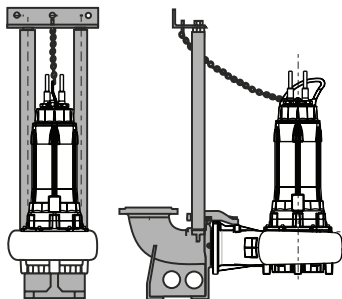
TYPE			mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	I5	L1min	Lmin	
GKV6 100-100E-0040L	100	100	112	798	473	16	225.5	178.5	295	404	468	106	139.9
GKV6 100-100C-0040L	100	100	112	798	473	16	225.5	178.5	295	404	468	106	140.3
GKV6 100-100A-0040L	100	100	112	798	473	16	225.5	178.5	295	404	468	106	140.9
GKV4 100-100R-0021H	100	100	112	668.3	434	16	204.5	171	263	375.5	326	106	96.6
GKV4 100-100N-0029H	100	100	112	668.3	434	16	204.5	171	263	375.5	326	106	96.8
GKV4 100-100L-0037H	100	100	112	737.4	434	16	221	171	263	392	361	106	103
GKV4 100-100F-0046H	100	100	112	737.4	434	16	221	171	263	392	361	106	111.7
GKV4 100-100A-0058H	100	100	112	737.4	434	16	221	171	263	392	361	106	121.2
GKV4 100-100E-0075L	100	100	112	798	473	16	225.5	178.5	295	404	468	106	149
GKV4 100-100C-0105L	100	100	112	800.4	473	16	236	178.5	295	414.5	468	106	172
GKV4 100-100A-0125L	100	100	112	800.4	473	16	236.5	178.5	295	415	468	106	175

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

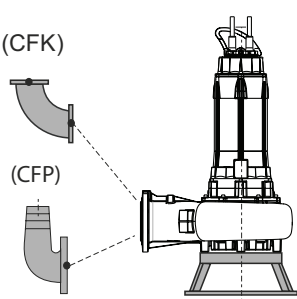
Duck foot coupling

SAK



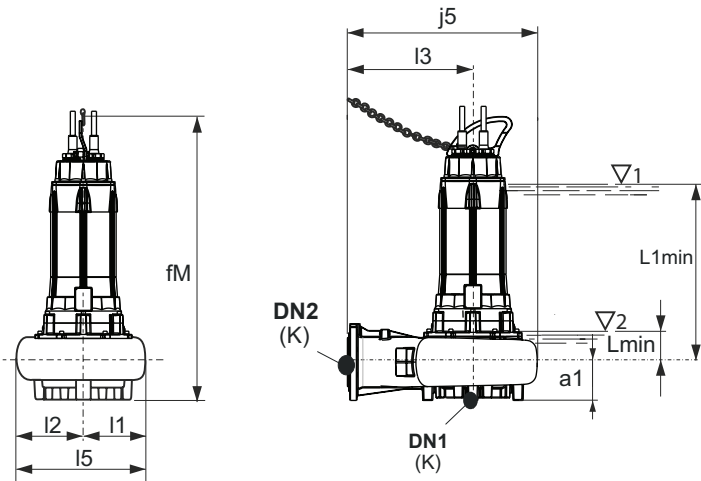
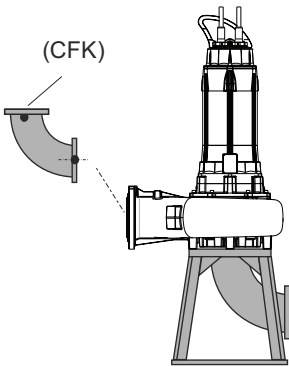
Submersible pump rest

APK



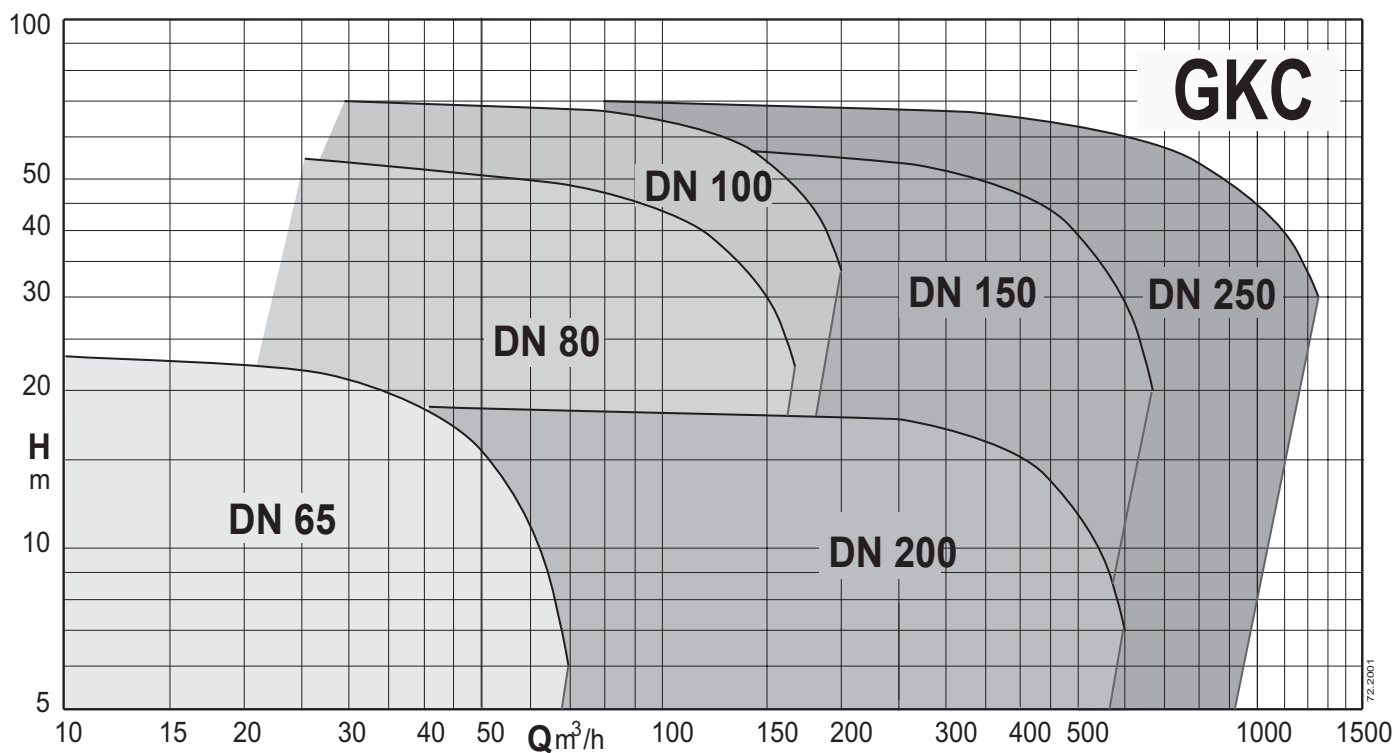
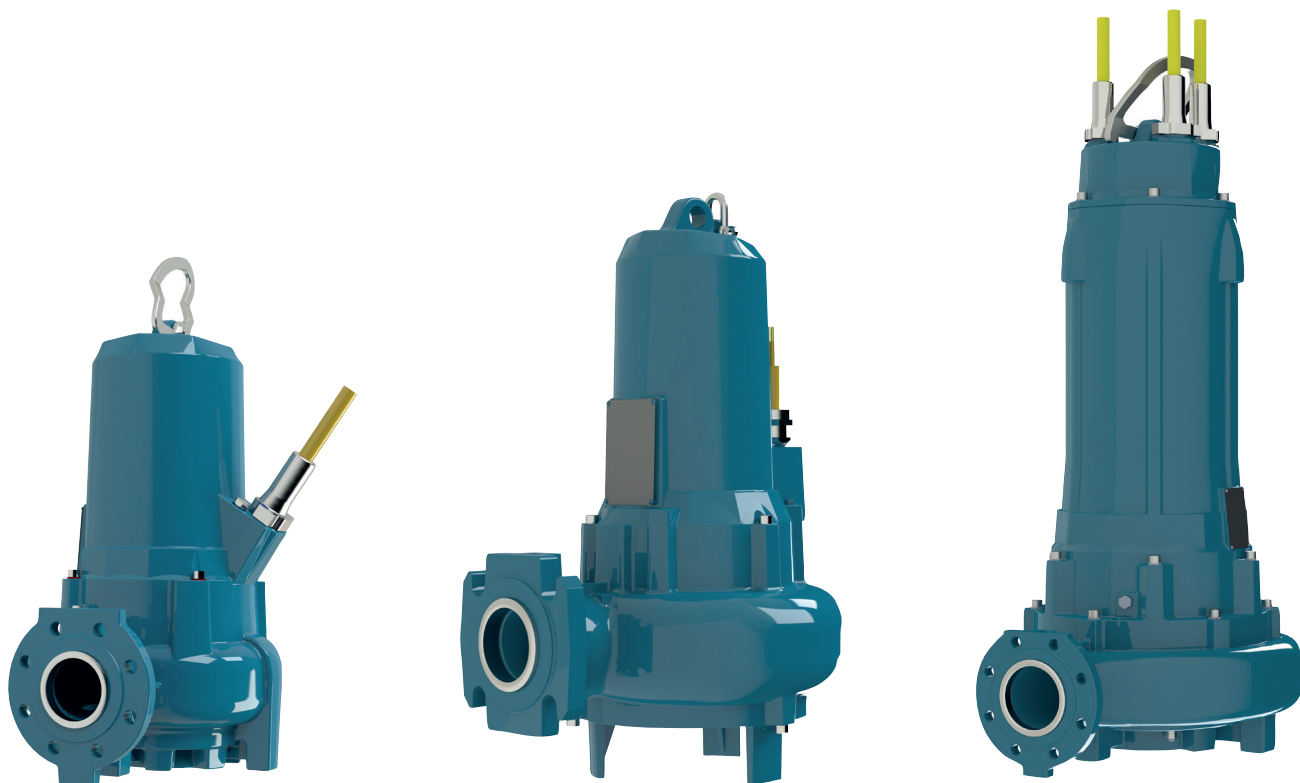
Dry chamber pump rest

APCK



TYPE	mm												Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	
GKV2 100-80L-0260N	100	100	110	1183	553	16	200	200	335	400	788	167	330.7
GKV2 100-80I-0260N	100	100	110	1183	553	16	200	200	335	400	788	167	330.9
GKV2 100-80H-0350N	100	100	110	1183	553	16	200	200	335	400	788	167	354.1
GKV2 100-80G-0350N	100	100	110	1183	553	16	200	200	335	400	788	167	354.2
GKV2 100-80F-0350N	100	100	110	1183	553	16	200	200	335	400	788	167	354.3
GKV2 100-80E-0350N	100	100	110	1183	553	16	200	200	335	400	788	167	349.1
GKV2 100-80D-0350N	100	100	110	1183	553	16	200	200	335	400	788	167	354.6

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)



Submersible pumps with single channel impeller



Construction

Submersible pumps with single-channel impeller.

It offers reliability against clogging and features wide through sections and a good resistance to wear, low mechanical action on the fluid, high hydraulic efficiency.

Low vibrations thanks to the dynamically balanced impeller.

Delivery port DN 65-80-100-150-200-250

Applications

Particularly suitable for clean water, water containing solid and fibrous solids, cloacal water, sewage and sludge.

Particularly suitable for the emptying of sewage from cesspits or primary collection tanks or industrial waste water.

Solid passage from 40 to 163 mm.

Operating conditions

Liquid temperature: from 0°C to +40°C.

Maximum immersion depth: 20m (with cable of suitable length).

Maximum working pressure: 80 m.w.c.

pH of the liquid to be lifted: 4 ÷ 10

Continuous service (with water at minimum immersion level).

Materials

Pump casing: cast iron EN-GJL250 UNI-EN 1561-11

Impeller: cast iron EN-GJL250 UNI-EN 1561-11

Motor casing: cast iron EN-GJL250 UNI-EN 1561-11 / EN-GJL450 UNI-EN 1561-11

Shaft: stainless steel X20Cr13 (AISI420)

Pump mechanical seal with flange size F - H - L - N - P

- motor side: graphite/ceramic

- pump side: silicon/ceramic carbide

Pump mechanical seal with flange size R - Z - T

- motor side: stainless steel/graphite

- pump side: Silicon carbide/silicon carbide

Motor

2,4,6,8 pole, 50Hz induction motor.

Three-phase version: 400V ± 10%, up to 4.8kW
400/690V ± 10% from 5.8kW

Isolation class: F or H

Degree of protection: IP 68

Max number of starts per hour:

- 20 up to 5 kW

- 15 up to 10 kW

- 10 for higher powers

Cable: length 10m

Direction of rotation: clockwise top view

Motor suitable for operation with frequency converter.

Special features on request

(Check feasibility according to the model with our Technical Sales Office)

Impeller in stainless steel AISI 316 or bronze.

Bronze impeller seat ring.

Cable length up to 40 m

Other mechanical seal.

Higher or lower liquid or ambient temperatures.

Ceramic coating.

Internal anti-erosion coating, external anti-corrosion.

Designation

GKC4 100-80A-0058R

GK = Series

C = Single-channel impeller

4 = Number of poles

100 = Delivery port diameter in mm

80 = Free passage in mm

A = Impeller trim

0058 = Motor size kW x 10

R = With cooling jacket / oil chamber

Technical data

TYPE	Dry chamber version		Probes		Cable		Class	Duck foot coupling	Submersible pump rest	Dry chamber pump rest	Dry chamber pump support
	Vertical	Horizontal	thermal	conductivity	NSSHOU-J	H07RN-F	Isolation / Efficiency				
GKC2 65-40G-0020F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	—	—	—
GKC2 65-40D-0020F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	—	—	—
GKC2 65-40A-0025F	—	—	o	o	—	•	H / IE3	SAK 65-65-2	—	—	—
GKC2 65-40A-0048H	#	#	o	o	•	—	H / IE3	SAK 65-65-2	APK 80	APCK 65	SOK80/N3
GKC2 65-40D-0048H	#	#	o	o	•	—	H / IE3	SAK 65-65-2	APK 80	APCK 65	SOK80/N3
GKC2 65-40G-0038H	#	#	o	o	•	—	H / IE3	SAK 65-65-2	APK 80	APCK 65	SOK80/N3
GKC2 65-40L-0038H	#	#	o	o	•	—	H / IE3	SAK 65-65-2	APK 80	APCK 65	SOK80/N3
GKC6 80-75G-0015H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC6 80-75D-0015H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC6 80-75A-0015H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC4 80-75A-0029H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC4 80-76A-0021F	—	—	•	•	•	—	F / IE3	SAK 80-80-2	—	—	—
GKC4 80-76D-0021F	—	—	•	•	•	—	F / IE3	SAK 80-80-2	—	—	—
GKC4 80-76G-0016F	—	—	•	•	•	—	F / IE3	SAK 80-80-2	—	—	—
GKC4 80-76L-0016F	—	—	•	•	•	—	F / IE3	SAK 80-80-2	—	—	—
GKC4 80-80A-0058H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 100	APCK 100	SOK100/N3
GKC4 80-80G-0037H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 100	APCK 100	SOK100/N3
GKC4 80-75G-0016H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC4 80-75D-0021H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC4 80-80L-0029H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 100	APCK 100	SOK100/N3
GKC4 80-80D-0046H	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 100	APCK 100	SOK100/N3
GKC2 80-80P-0165L	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80I-0065L	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80G-0065L	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80E-0090L	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80C-0125L	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80A-0125L	#	#	•	•	•	—	H / IE3	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC6 100-80L-0015H	#	#	•	•	•	—	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC6 100-80G-0015H	#	#	•	•	•	—	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC6 100-80D-0018H	#	#	•	•	•	—	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC6 100-80A-0018H	#	#	•	•	•	—	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3

• = Standard
- = Not present

o = Optional

= Version with oil chamber

= In case of operation in a dry chamber or with a low level of the pumped liquid, it is necessary to introduce the cooling oil according to the quantities indicated in the use and maintenance manual

Technical data

TYPE	Dry chamber version		Probes		Cable		Class Isolation	Duck foot coupling	Submersible pump rest	Dry chamber pump rest	Dry chamber pump support
	Vertical	Horizontal	thermal	conductivity	NSSHOU-J	H07RN-F					
GKC4 100-80D-0046H	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC4 100-80A-0058H	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC4 100-100L-0165N	#	–	•	•	•	–	H / IE3	SAK 100-100-2	APK 150	APCK 150A	–
GKC4 100-100G-0193N	#	–	•	•	•	–	H / IE3	SAK 100-100-2	APK 150	APCK 150A	–
GKC4 100-100D-0193N	#	–	•	•	•	–	H / IE3	SAK 100-100-2	APK 150	APCK 150A	–
GKC4 100-100A-0230N	#	–	•	•	•	–	H / IE3	SAK 100-100-2	APK 150	APCK 150A	–
GKC4 100-80L-0029H	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC4 100-80G-0037H	#	#	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC2 100-80C-0260N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKC2 100-80D-0260N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKC2 100-80G-0260N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKC2 100-80F-0260N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKC2 100-80E-0260N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKC2 100-80C-0350N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKC2 100-80D-0350N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKC2 100-80B-0350N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKC2 100-80A-0350N	#	–	•	•	•	–	H / IE3	SAK 100-100-2A	APK 100A	APCK 100	–
GKC6 150-100G-0040L	#	#	•	•	•	–	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC6 150-100D-0040L	#	#	•	•	•	–	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC6 150-100A-0040L	#	#	•	•	•	–	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC4 150-80D-0046H	#	#	•	•	•	–	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC4 150-80A-0058H	#	#	•	•	•	–	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC4 150-100G-0075L	#	#	•	•	•	–	H / IE3	–	APK 150	APCK 150A	SOK150/N3
GKC4 150-100D-0105L	#	#	•	•	•	–	H / IE3	–	APK 150	APCK 150A	SOK150/N3
GKC4 150-100A-0125L	#	#	•	•	•	–	H / IE3	–	APK 150	APCK 150A	SOK150/N3
GKC4 150-115L-0165N	#	–	•	•	•	–	H / IE3	SAK 150-200-3	APK 150	APCK 150A	–
GKC4 150-115G-0193N	#	–	•	•	•	–	H / IE3	SAK 150-200-3	APK 150	APCK 150A	–
GKC4 150-115D-0210N	#	–	•	•	•	–	H / IE3	SAK 150-200-3	APK 150	APCK 150A	–
GKC4 150-115A-0260N	#	–	•	•	•	–	H / IE3	SAK 150-200-3	APK 150	APCK 150A	–
GKC4 150-102L-0340R	–	–	•	•	•	–	H / IE3	SAK 150-200-3	APK 150A	–	–
GKC4 150-102G-0420R	–	–	•	•	•	–	H / IE3	SAK 150-200-3	APK 150A	–	–
GKC4 150-102D-0510R	–	–	•	•	•	–	H / IE3	SAK 150-200-3	APK 150A	–	–
GKC4 150-102A-0620R	–	–	•	•	•	–	H / IE3	SAK 150-200-3	APK 150A	–	–
GKC4 150-102L-0340R-R	#	–	•	•	•	–	H / IE3	SAK 150-200-3	–	APCK 150	–
GKC4 150-102G-0420R-R	#	–	•	•	•	–	H / IE3	SAK 150-200-3	–	APCK 150	–
GKC4 150-102D-0510R-R	#	–	•	•	•	–	H / IE3	SAK 150-200-3	–	APCK 150	–
GKC4 150-102A-0620R-R	#	–	•	•	•	–	H / IE3	SAK 150-200-3	–	APCK 150	–
GKC6 200-135G-0110P	#	–	•	•	•	–	H / IE3	SAK 200-250-3	APK 150	APCK 200	–
GKC6 200-135D-0150P	#	–	•	•	•	–	H / IE3	SAK 200-250-3	APK 150	APCK 200	–
GKC6 200-135A-0195P	#	–	•	•	•	–	H / IE3	SAK 200-250-3	APK 150	APCK 200	–
GKC8 250-163A-0210Z	–	–	•	•	–	•	F	SAK 250-300-3	APK 350	–	–
GKC6 250-163L-0250R	–	–	•	•	•	–	H / IE3	SAK 250-300-3	APK 350	–	–
GKC6 250-163G-0340R	–	–	•	•	•	–	H / IE3	SAK 250-300-3	APK 350	–	–
GKC6 250-163D-0420R	–	–	•	•	•	–	H / IE3	SAK 250-300-3	APK 350	–	–
GKC6 250-163A-0510R	–	–	•	•	•	–	H / IE3	SAK 250-300-3	APK 350	–	–
GKC8 250-163A-0210Z-R	\$	\$	•	•	•	–	H / IE3	SAK 250-300-3	–	APCK 250A	SOK350-200
GKC6 250-163L-0250R-R	#	–	•	•	•	–	H / IE3	SAK 250-300-3	–	APCK 250A	SOK350-200
GKC6 250-163G-0340R-R	#	–	•	•	•	–	H / IE3	SAK 250-300-3	–	APCK 250A	SOK350-200
GKC6 250-163D-0420R-R	#	–	•	•	•	–	H / IE3	SAK 250-300-3	–	APCK 250A	SOK350-200
GKC6 250-163A-0510R-R	#	–	•	•	•	–	H / IE3	SAK 250-300-3	–	APCK 250A	SOK350-250
GKC4 250-163M-0820R	–	–	•	•	•	–	H / IE3	SAK 250-300-3A	APK 350	–	–
GKC4 250-163L-1000T	–	–	•	•	–	•	F	SAK 250-300-3A	APK 350	–	–
GKC4 250-163H-1000T	–	–	•	•	–	•	F	SAK 250-300-3A	APK 350	–	–
GKC4 250-163G-1200T	–	–	•	•	–	•	F	SAK 250-300-3A	APK 350	–	–
GKC4 250-163E-1450T	–	–	•	•	–	•	F	SAK 250-300-3A	APK 350	–	–
GKC4 250-163T-1450T	–	–	•	•	–	•	F	SAK 250-300-3A	APK 350	–	–
GKC4 250-163B-1450T	–	–	•	•	–	•	F	SAK 250-300-3A	APK 350	–	–
GKC4 250-163A-1800T	–	–	•	•	–	•	F	SAK 250-300-3A	APK 350	–	–
GKC4 250-163M-0820R-R	#	–	•	•	•	–	H / IE3	SAK 250-300-3A	–	APCK 250A	–
GKC4 250-163L-1000T-R	\$	–	•	•	–	•	F	SAK 250-300-3A	–	APCK 250A	SOK350-280
GKC4 250-163H-1000T-R	\$	–	•	•	–	•	F	SAK 250-300-3A	–	APCK 250A	SOK350-280
GKC4 250-163G-1200T-R	\$	–	•	•	–	•	F	SAK 250-300-3A	–	APCK 250A	SOK350-280
GKC4 250-163E-1450T-R	\$	–	•	•	–	•	F	SAK 250-300-3A	–	APCK 250A	SOK350-280
GKC4 250-163T-1450T-R	\$	–	•	•	–	•	F	SAK 250-300-3A	–	APCK 250A	SOK350-280
GKC4 250-163B-1450T-R	\$	–	•	•	–	•	F	SAK 250-300-3A	–	APCK 250A	SOK350-280
GKC4 250-163A-1800T-R	\$	–	•	•	–	•	F	SAK 250-300-3A	–	APCK 250A	SOK350-315

• = Standard
– = Not present

o = Optional

= Version with oil chamber
\$ = Version with cooling jacket

= In case of operation in a dry chamber or with a low level of the pumped liquid, it is necessary to introduce the cooling oil according to the quantities indicated in the use and maintenance manual

Performance

n ≈ 2850 1/min

			Q = Flow																			
			m³/h	0	10,8	14,4	18	21,5	25,2	28,8	32,4	36	43,2	45	50,4	54	57,6	63	64,8	72	81	90
Model	400V	P2	l/min		180	240	300	358	420	480	540	600	720	750	840	900	960	1050	1080	1200	1350	1500
	A	kW	H (m) = Total head																			
GKC2 65-40G-0020F	4,1	2		19,5	16,1	15,2	14,4	13,5	12,7	12	11,2	10,4	8,9	-	7,2	-	-	-	-	-	-	-
GKC2 65-40D-0020F	4,1	2		24,1	18,1	17,2	16,4	15,5	14,7	13,8	13	12,2	10,4	-	8,6	-	6,7	-	-	-	-	-
GKC2 65-40A-0025F	5,5	2,5		27,9	21,8	20,7	19,7	18,8	17,9	17	16,2	15,3	13,6	-	11,8	-	9,8	-	7,7	5,3	-	-
GKC2 65-40L-0038H	7,5	3,8		25	20,8	19,8	18,8	17,8	16,9	16	15,1	14,3	-	12,1	-	9,8	-	7,1	-	-	-	-
GKC2 65-40G-0038H	7,5	3,8		26,2	-	22,6	21,7	20,8	20	19,1	18,2	17,3	-	15	-	12,6	-	10,1	-	7,5	-	-
GKC2 65-40D-0048H	8,9	4,8		31	27,9	26,8	25,8	24,9	24	23,2	22,4	21,5	-	19,4	-	17,2	-	14,9	-	12,5	10,2	7,9
GKC2 65-40A-0048H	8,9	4,8		35	-	29,5	28,3	27,3	26,4	25,7	24,9	24,1	-	22,1	-	19,8	-	-	-	-	-	-

n ≈ 950 1/min

				Q = Flow													
				m³/h	0	18	21,5	25,2	28,8	32,4	36	43,2	50,4	57,6	64,8	72	79,2
Model	400V	P2		l/min		300	358	420	480	540	600	720	840	960	1080	1200	1320
	A	kW	HP	H (m) = Total head													
GKC6 80-75G-0015H	3,4	1,5	2		4,3	3,6	3,4	3,2	3	2,9	2,7	2,3	1,8	1,3	0,7	-	-
GKC6 80-75D-0015H	3,4	1,5	2		5,7	4,3	4,2	4	3,9	3,7	3,5	3,1	2,7	2,2	1,7	-	-
GKC6 80-75A-0015H	3,4	1,5	2		7,2	-	5,5	5,3	5,1	4,9	4,7	4,3	3,9	3,5	3,1	2,5	1,9

n ≈ 1450 1/min

			Q = Flow														
			m³/h	0	21,5	25,2	28,8	32,4	36	45	54	63	72	81	90	99	108
Model	400V	P2	l/min		358	420	480	540	600	750	900	1050	1200	1350	1500	1650	1800
	A	kW	H (m) = Total head														
GKC4 80-76L-0016F	3,7	1,6		9,6	-	-	6,8	6,6	6,4	6	5,4	4,9	4,3	3,7	3,2	-	-
GKC4 80-76G-0016F	3,7	1,6		11	8,2	8	7,8	7,6	7,4	6,8	6,3	5,7	5,1	4,4	3,7	-	-
GKC4 80-76D-0021F	5,1	2,1		12,6	9,3	9,1	9	8,8	8,6	8,1	7,5	6,9	6,3	5,6	4,9	4,2	3,5
GKC4 80-76A-0021F	5.1	2.1		13.9	10.5	10.2	10	9.8	9.7	9.2	8.7	8.1	7.5	6.9	-	-	-

n ≈ 1450 1/min

					Q = Flow															
					m³/h	0	21,5	28,8	36	54	72	90	108	126	144	162	180	198	216	
Model	400V		690V	P2	l/min	0	358	480	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	
	A			kW	H (m) = Total head															
GKC4 80-75G-0016H	3,4	-	-	1,6		10,8	-	8,1	7,5	6,1	4,7	3,2	-	-	-	-	-	-	-	
GKC4 80-75D-0021H	5,0	-	-	2,1		13,2	10,2	9,8	9,4	8,3	6,8	5,1	-	-	-	-	-	-	-	
GKC4 80-75A-0029H	6,1	-	-	2,9		15,9	13,2	12,6	12	10,5	9,1	7,6	5,8	-	-	-	-	-	-	
GKC4 80-80L-0029H	6,1	-	-	2,9		14,9	-	-	10,2	9,1	7,7	6,2	4,7	3	-	-	-	-	-	
GKC4 80-80G-0037H	7,7	-	-	3,7		16,8	12,7	12,3	11,9	10,8	9,6	8,2	6,6	5	3,3	-	-	-	-	
GKC4 80-80D-0046H	9,5	-	-	4,6		19,3	-	14,5	13,9	12,8	11,7	10,5	9,1	7,5	5,9	4,1	-	-	-	
GKC4 80-80A-0058H	-	11.9	6.9	5.8		21.4	-	-	16.7	15.6	14.4	13.2	12	10.5	8.9	7.2	5.3	3.4	1.3	

n ≈ 2850 1/min

				Q = Flow												
				m³/h	0	18	21,5	28,8	36	54	72	90	108	126	144	162
Model	400V	690V	P2	l/min		300	358	480	600	900	1200	1500	1800	2100	2400	2700
	A		kW	H (m) = Total head												
GKC2 80-80I-0065L	11,8	6,8	6,5		28,1	-	22,1	20,3	18,7	15,4	12,7	10,2	7,5	4,6	-	-
GKC2 80-80G-0065L	11,8	6,8	6,5		33,9	-	28,3	26,3	24,7	21,7	18,9	15,8	12,6	9,5	-	-
GKC2 80-80E-0090L	16,1	9,3	9		42,1	36,1	34,8	32,5	30,5	27	24,3	21,3	17,5	13,3	-	-
GKC2 80-80C-0125L	22,4	12,9	12,5		47,9	41,3	40,1	37,7	35,6	31,4	28,2	25	21,3	17,3	13,4	-
GKC2 80-80A-0125L	22,4	12,9	12,5		53,6	-	46,1	43,5	41,2	36,9	33,9	30,9	27	22,4	17,6	-
GKC2 80-80P-0165L	31	17,9	16,5		62,9	-	-	53,6	51	45,9	42	38,8	35,6	32,1	28,1	22,9

n ≈ 950 1/min

			Q = Flow																		
			m³/h	0	21,5	25,2	28,8	32,4	36	45	54	63	72	81	90	99	108	117	126	135	
Model	400V	P2	l/min		358	420	480	540	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	
	A	kW	H (m) = Total head																		
GKC6 100-80L-0015H	3,4	1,5		5,4	4,7	4,6	4,5	4,3	4,2	3,9	3,5	3,2	2,8	2,5	2,1	-	-	-	-	-	
GKC6 100-80G-0015H	3,4	1,5		7,2	5,5	5,4	5,2	5,1	4,9	4,5	4,2	3,8	3,5	3,1	2,6	2,1	1,5	-	-	-	
GKC6 100-80D-0018H	4,1	1,8		8,7	6,8	6,6	6,4	6,3	6,1	5,7	5,4	5	4,6	4,3	3,9	3,5	3,1	2,7	2,2	-	
GKC6 100-80A-0018H	4,1	1,8		9,5	7,5	7,4	7,3	7,2	7	6,7	6,4	6,1	5,7	5,4	5	4,6	4,1	3,7	3,2	2,6	

Performance

n ≈ 1450 1/min

					Q = Flow																
					m³/h	0	28,8	36	54	72	90	108	126	144	162	180	198	216	234	252	270
Model	400V	690V	P2	l/min	0	480	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	
	A			kW	H (m) = Total head																
GKC4 100-80L-0029H	6,1	-	-	2,9		14,3	-	10,1	9,1	8	6,9	5,8	4,6	-	-	-	-	-	-	-	-
GKC4 100-80G-0037H	7,7	-	-	3,7		16,9	12,6	12,2	11,3	10,2	9,2	8	6,8	5,5	-	-	-	-	-	-	-
GKC4 100-80D-0046H	9,5	-	-	4,6		19,3	-	13,9	13	12	11	10	8,9	7,7	6,5	-	-	-	-	-	-
GKC4 100-80A-0058H	-	11,9	6,9	5,8		21,2	17,7	16,9	15,5	14,4	13,4	12,3	11,2	10	8,6	7,1	5,4	3,7	-	-	-
GKC4 100-100L-0165N	-	31,2	18	16,5		27,4	-	-	-	21,4	20,7	20	19,3	18,5	17,7	16,8	15,7	14,6	13,4	12	10,7
GKC4 100-100G-0193N	-	38,8	22,4	19,3		31	-	-	-	24,9	24,1	23,3	22,4	21,5	20,6	19,6	18,6	17,5	16,3	15,1	13,8
GKC4 100-100D-0193N	-	38,8	22,4	19,3		34,3	-	-	-	29	27,6	26,4	25,2	24,1	23	21,9	20,8	19,7	18,5	17,3	16
GKC4 100-100A-0230N	-	42,4	24,5	23		39,6	-	-	-	34	32,7	31,4	30,1	29	27,9	26,8	25,7	24,7	23,5	22,3	-

n ≈ 2850 1/min

				Q = Flow												
				m³/h	0	28,8	36	54	72	90	108	126	144	162	180	198
Model	400V	690V	P2	l/min		480	600	900	1200	1500	1800	2100	2400	2700	3000	3300
	A		kW	H (m) = Total head												
GKC2 100-80C-0260N	44,6	25,7	26		73,7	-	-	56,2	53,1	49,9	46,6	-	-	-	-	-
GKC2 100-80D-0260N	44,6	25,7	26		67,9	-	53,7	50,8	47,9	45	42,2	39,4	36,6	-	-	-
GKC2 100-80G-0260N	44,6	25,7	26		49,4	39	37,6	34,7	31,9	29,2	26,4	23,5	20,7	17,7	14,6	11,4
GKC2 100-80F-0260N	44,6	25,7	26		54,5	44,6	42,6	39,1	36,2	33,4	30,6	27,8	24,8	21,8	18,8	15,7
GKC2 100-80E-0260N	44,6	25,7	26		59,3	-	46,6	43,7	40,9	38,2	35,4	32,5	29,6	26,7	23,6	-
GKC2 100-80C-0350N	57,8	33,4	35		73,9	-	-	56,3	53,3	50,3	47,2	44,1	40,9	37,7	34,6	-
GKC2 100-80D-0350N	57,8	33,4	35		68	-	54,3	51,5	48,6	45,8	42,9	39,9	36,9	33,9	30,8	-
GKC2 100-80B-0350N	57,8	33,4	35		77	-	-	59,3	56,1	53,1	50,2	47,4	44,7	41,9	39	-
GKC2 100-80A-0350N	57,8	33,4	35		80,1	-	-	66,2	61,9	58,4	55,4	52,6	49,9	47	-	-

n ≈ 950 1/min

Model					Q = Flow												
					m³/h	0	10,8	14,4	21,5	28,8	36	54	72	90	108	126	144
					l/min		180	240	358	480	600	900	1200	1500	1800	2100	2400
					400V	P2	H (m) = Total head										
					A	kW											
GKC6 150-100G-0040L					9	4		9,3	-	-	-	-	7,3	6,8	6,2	5,7	5
GKC6 150-100D-0040L					9	4		10,9	10	9,7	9,2	8,8	8,5	7,8	7,3	6,8	6,3
GKC6 150-100A-0040L					9	4		12,4	-	-	-	-	9,8	9,1	8,6	8,1	7,6

n ≈ 1450 1/min

					Q = Flow																			
					m³/h	0	54	72	90	108	126	144	162	180	198	216	234	252	270	288	324	360	450	540
Model	400V	690V	P2	l/min	0	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5400	6000	7500	9000	10500
	A			kW	H (m) = Total head																			
GKC4 150-80D-0046H	9,5	-	-	4,6		12,1	10,4	9,8	9,1	8,3	7,6	6,9	6,2	5,5	4,8	4	-	-	-	-	-	-	-	-
GKC4 150-80A-0058H	-	11,9	6,9	5,8		18,1	13,5	12,8	12,1	11,3	10,5	9,8	9	8,2	7,4	6,6	5,8	4,9	3,9	-	-	-	-	-
GKC4 150-100G-0075L	-	15,3	8,8	7,5		20,2	16	14,9	14,1	13,4	12,6	11,8	10,9	10	-	8,1	-	6,1	-	-	-	-	-	-
GKC4 150-100D-0105L	-	20	11,5	10,5		24,1	19	18,3	17,6	16,8	16	15,1	14,3	13,4	-	11,6	-	9,7	-	7,6	5,1	-	-	-
GKC4 150-100A-0125L	-	24	13,9	12,5		28,9	23	21,6	20,7	19,9	19,1	18,4	17,6	16,8	-	15	-	13	-	10,9	8,5	5,5	-	-
GKC4 150-115L-0165N	-	31,2	18	16,5		27,6	-	21,7	20,8	20,1	19,3	18,6	17,9	17,1	-	15,6	-	14	-	12,2	10,4	8,5	-	-
GKC4 150-115G-0193N	-	38,8	22,4	19,3		32	-	26,1	24,9	23,8	22,9	22	21,2	20,4	-	18,8	-	17,1	-	15,3	13,4	11,3	-	-
GKC4 150-115D-0210N	-	39	22,5	21		34,9	-	28,4	27,3	26,4	25,6	24,8	24	23,2	-	21,5	-	19,7	-	17,8	15,7	13,6	-	-
GKC4 150-115A-0260N	-	47,2	27,3	26		39,9	-	33	31,7	30,6	29,7	28,8	27,9	27,1	-	25,4	-	23,7	-	21,9	20	18	11,9	-
GKC4 150-102L-0340R	-	62,5	36,1	34		45,5	-	-	-	36,7	35,5	34,3	33,2	32,2	-	30,3	-	28,6	-	26,9	25,2	23,5	19,1	14,3
GKC4 150-102G-0420R	-	75,5	43,6	42		51,7	-	-	-	40,8	39,9	39	38,1	37,2	-	35,5	-	33,8	-	32,3	30,8	29,2	25	20
GKC4 150-102D-0510R	-	90,5	52,3	51		58	-	-	-	47,2	46	44,9	43,8	42,7	-	40,7	-	38,9	-	37,1	35,4	33,7	29,2	23,7
GKC4 150-102A-0620R	-	109,5	63,2	62		64,8	-	-	-	52,7	51,3	50,1	48,9	47,9	-	45,9	-	44,2	-	42,6	40,9	39,2	34,5	28,9
GKC4 150-102L-0340R-R	-	65,8	37,6	34		45,5	-	-	-	35,8	34,5	33,4	32,3	31,2	-	29,3	-	27,5	-	25,9	24,2	22,5	17,8	12,5
GKC4 150-102G-0420R-R	-	80,5	46,0	42		51,7	-	-	-	41,3	40,1	39	37,9	36,8	-	34,8	-	32,9	-	31,1	29,3	27,5	22,8	17,2
GKC4 150-102D-0510R-R	-	93,5	53,4	51		58	-	-	-	46,8	45,6	44,5	43,4	42,3	-	40,3	-	38,4	-	36,5	34,7	32,8	28	22,1
GKC4 150-102A-0620R-R	-	117	66,9	62		64,8	-	-	-	52	50,7	49,7	48,7	47,8	-	45,9	-	44,1	-	42,2	40,3	38,4	33,5	27,8

$n \approx 950$ 1/min

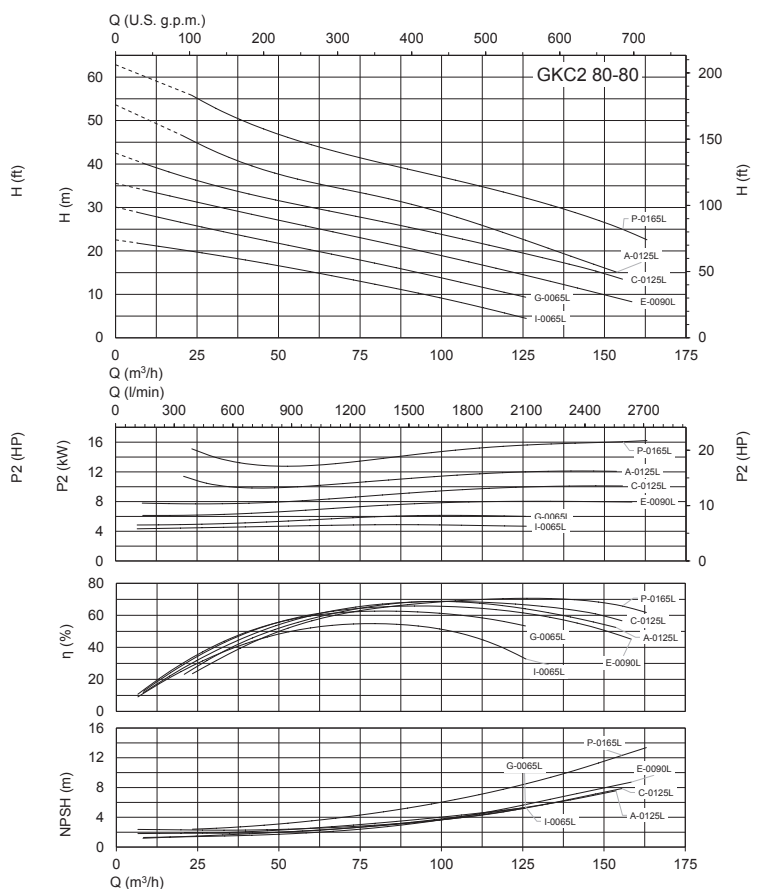
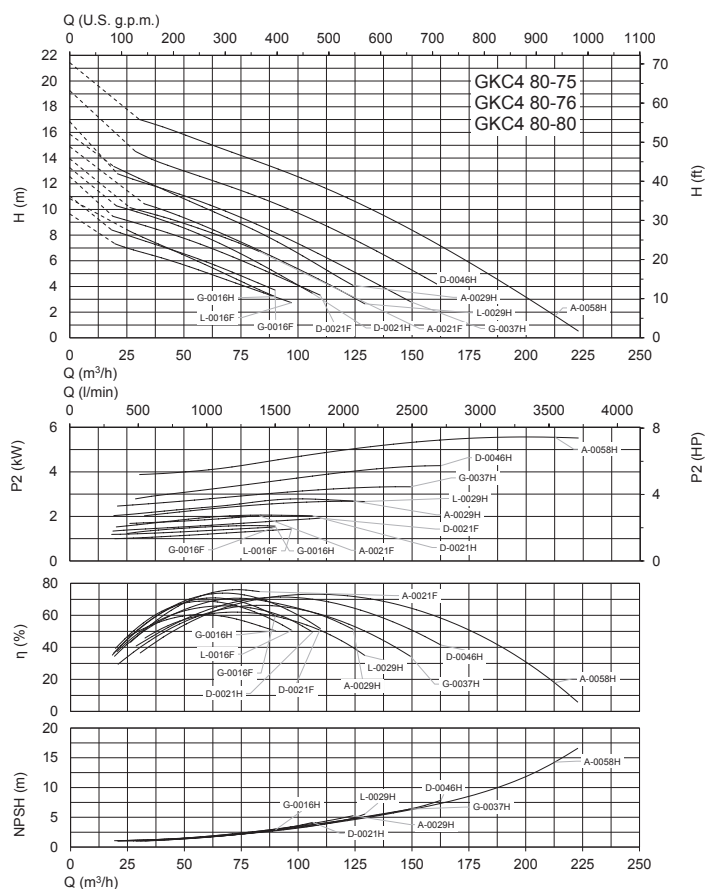
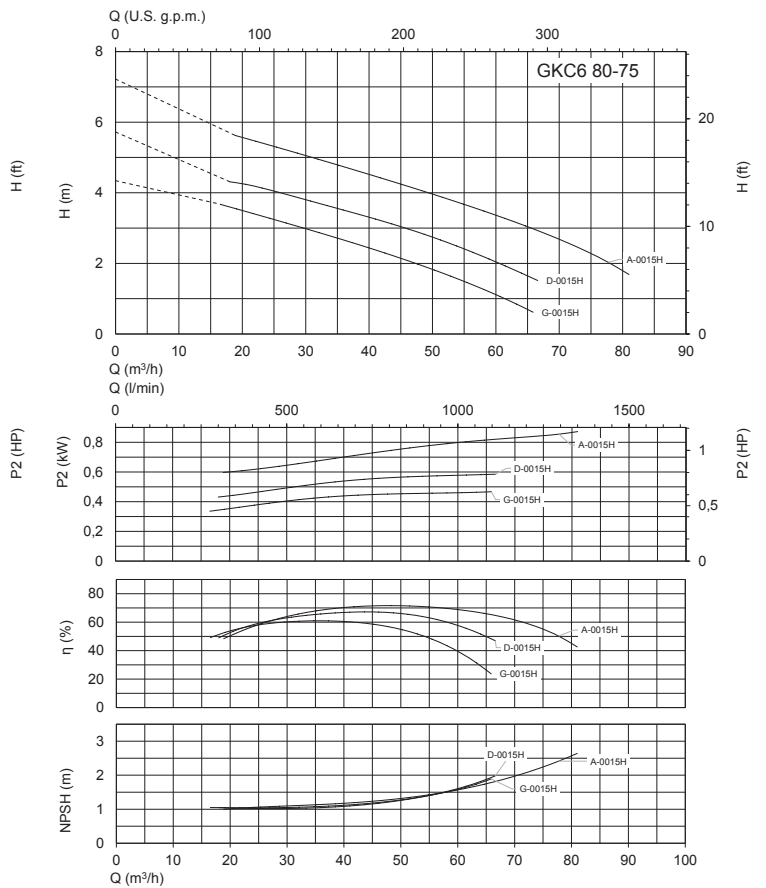
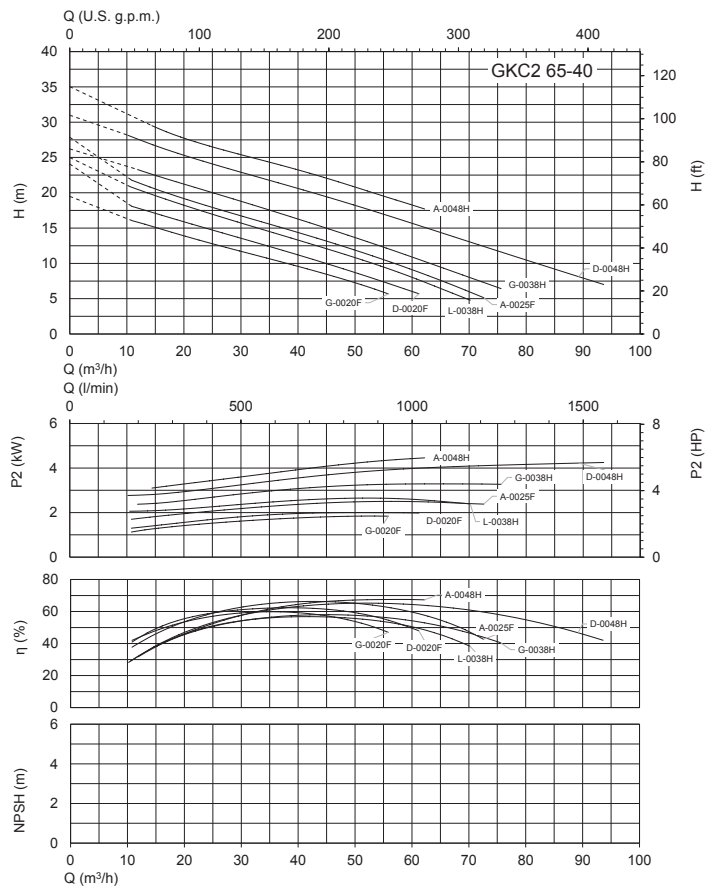
				Q = Flow														
				m³/h	0	90	108	126	144	162	180	216	252	288	324	360	450	540
Model	400V	690V	P2	l/min		1500	1800	2100	2400	2700	3000	3600	4200	4800	5400	6000	7500	9000
	A		kW	H (m) = Total head														
GKC6 200-135G-0110P	23,8	13,7	11		13	-	11,1	10,8	10,5	10,2	9,9	9,3	8,6	7,9	7,1	6,3	4,3	-
GKC6 200-135D-0150P	33	19,1	15		20,3	16,7	16,2	15,8	15,4	15	14,6	13,7	12,9	12,1	11,2	10,4	8,1	5,7
GKC6 200-135A-0195P	40,2	23,2	19,5		23,2	19,6	19,2	18,7	18,3	17,9	17,5	16,7	15,9	15,1	14,3	13,5	11,3	8,9

				Q = Flow																	
				m³/h	0	108	126	144	162	180	216	252	288	324	360	450	540	630	720	810	900
Model	400V	690V	P2	l/min		1800	2100	2400	2700	3000	3600	4200	4800	5400	6000	7500	9000	10500	12000	13500	15000
	A		kW	H (m) = Total head																	
GKC8 250-163A-0210Z	44,1	25,2	21		19,7	16,9	16,6	16,4	16,2	15,9	15,4	14,9	14,4	13,9	13,4	12	10,6	9	7,1	5	2,5

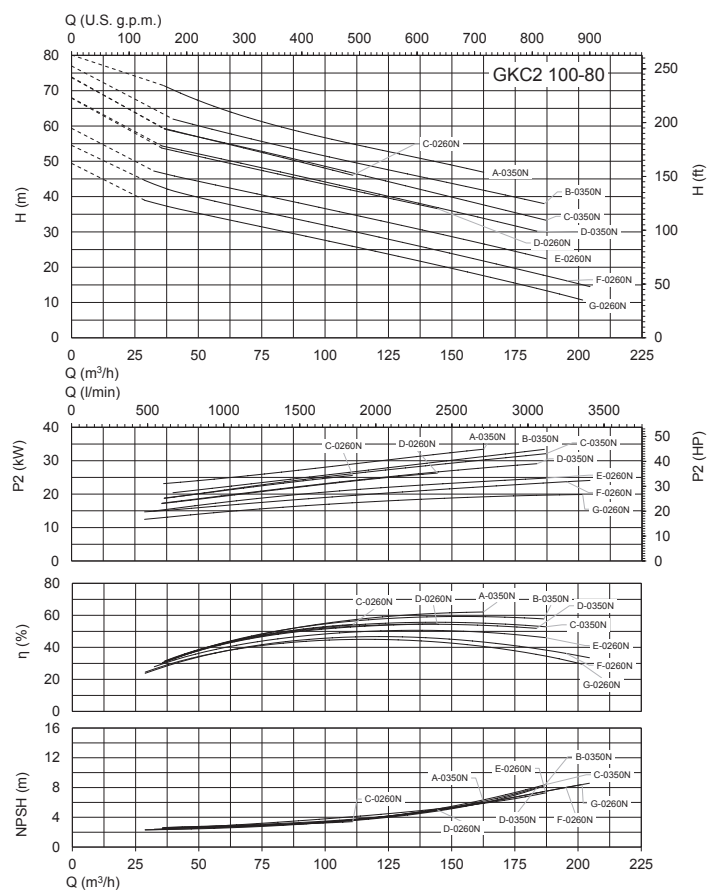
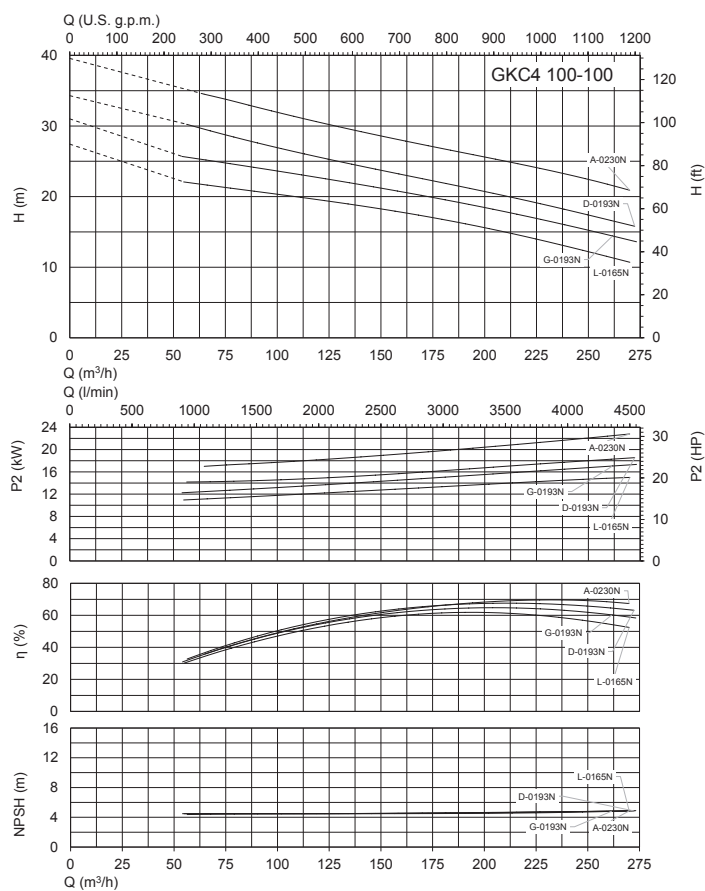
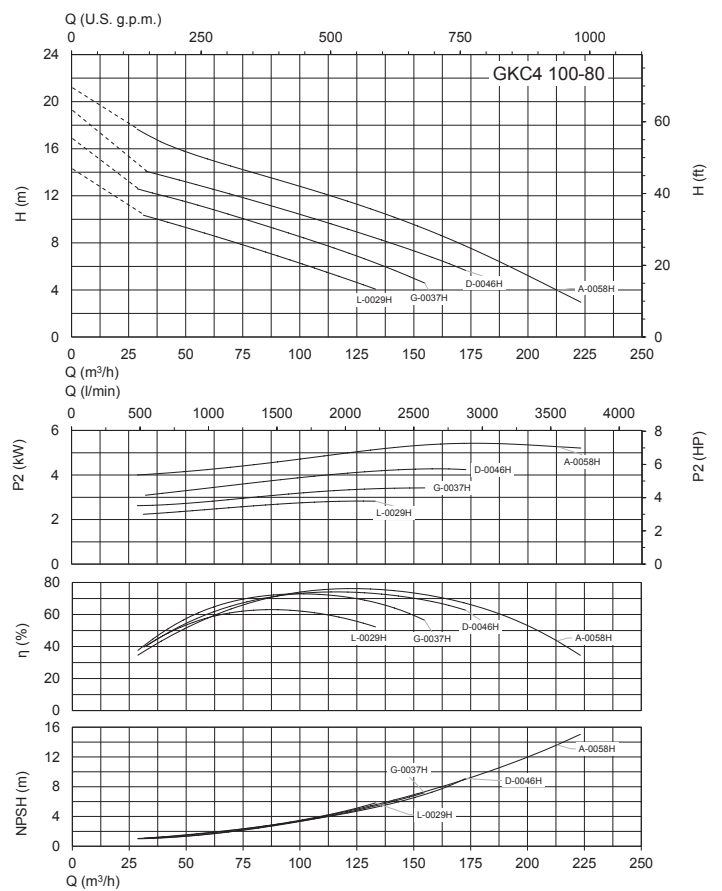
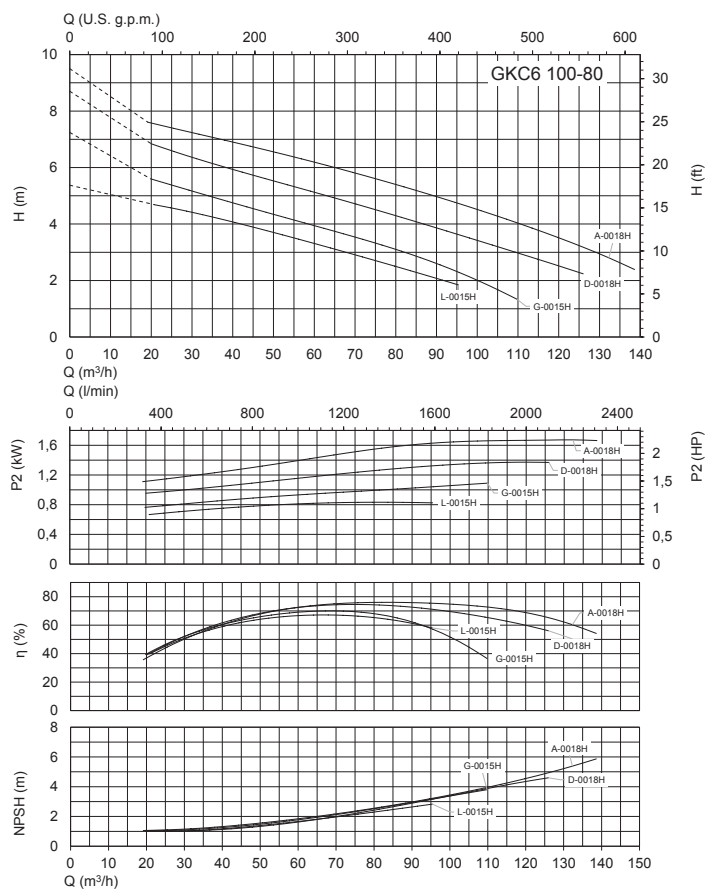
				Q = Flow																	
				m³/h	0	144	162	180	216	252	288	324	360	450	540	630	720	810	900	990	1080
				l/min		2400	2700	3000	3600	4200	4800	5400	6000	7500	9000	10500	12000	13500	15000	16500	18000
Model	400V	690V	P2	H (m) = Total head																	
	A		kW																		
GKC6 250-163L-0250R	49	28,3	25		23,8	-	-	-	17,9	17,3	16,7	16,1	15,6	14	12,4	10,7	8,9	7,1	5,1	-	-
GKC6 250-163G-0340R	64,6	37,3	34		28,3	-	-	-	23,2	22,4	21,7	21	20,3	18,6	16,8	15	13,2	11,3	9,2	7,1	-
GKC6 250-163D-0420R	76,5	44,2	42		32	-	-	-	25,5	24,8	24,2	23,5	22,9	21,3	19,7	17,9	15,9	13,7	11,3	8,8	6,2
GKC6 250-163A-0510R	91	52,5	51		35,4	-	-	-	29	28,3	27,7	27	26,4	24,7	23	21,2	19,2	17,1	14,9	12,5	9,9
GKC6 250-163L-0250R-R	50,0	28,6	25		23,8	-	-	-	17,5	16,7	16,1	15,5	14,9	13,3	11,7	9,9	8,1	6,3	4,5	-	-
GKC6 250-163G-0340R-R	68,5	39,1	34		28,3	23,6	23,3	23	22,4	21,7	21	20,2	19,5	17,8	16	14,2	12,3	10,5	8,6	6,5	4
GKC6 250-163D-0420R-R	84,7	48,4	42		32	-	26,6	26,3	25,6	25	24,3	23,6	22,9	21,2	19,4	17,5	15,6	13,6	11,6	9,6	7,3
GKC6 250-163A-0510R-R	103	58,9	51		35,4	30,2	29,9	29,6	29	28,3	27,7	27	26,3	24,6	22,8	20,9	18,9	16,8	14,6	12,2	8,8

				Q = Flow												
				m³/h	0	324	360	450	540	630	720	810	900	990	1080	1188
Model	400V	690V	P2	l/min		5400	6000	7500	9000	10500	12000	13500	15000	16500	18000	19800
	A		kW	H (m) = Total head												
GKC4 250-163M-0820R	142	82	82		45,8	36,2	35,3	33	30,8	28,5	26,2	24	21,7	19,6	17,5	15
GKC4 250-163L-1000T	184	105	100		55,3	41,1	40	37,4	35	32,5	30,1	27,6	25,1	22,4	19,6	15,9
GKC4 250-163H-1000T	184	105	100		59,3	43,3	42,3	39,8	37,2	34,6	32,1	29,5	26,8	24	21	17,5
GKC4 250-163G-1200T	223	128	120		62,4	50,2	49,2	46,4	43,6	40,7	37,9	35	32,2	29,4	26,5	23,1
GKC4 250-163E-1450T	262	150	145		65,9	56,8	55,4	52,1	49,3	46,8	44,3	41,7	39	36,3	33,4	30,1
GKC4 250-163T-1450T	262	150	145		70,8	57	56	53,5	50,9	48,2	45,4	42,5	39,4	36,2	32,9	28,9
GKC4 250-163B-1450T	262	150	145		74,1	61	59,8	57,1	54,4	51,6	48,8	45,9	42,9	39,8	36,6	32,5
GKC4 250-163A-1800T	321	184	180		78,1	66,8	65,7	62,8	59,9	57,1	54,3	51,6	48,8	46	43	39,2
GKC4 250-163M-0820R-R	142	82	82		45,8	36,2	35,3	33	30,8	28,5	26,2	24	21,7	19,6	17,5	15
GKC4 250-163L-1000T-R	184	105	100		55,3	41,1	40	37,4	35	32,5	30,1	27,6	25,1	22,4	19,6	15,9
GKC4 250-163H-1000T-R	184	105	100		59,3	43,3	42,3	39,8	37,2	34,6	32,1	29,5	26,8	24	21	17,5
GKC4 250-163G-1200T-R	223	128	120		62,4	50,2	49,2	46,4	43,6	40,7	37,9	35	32,2	29,4	26,5	23,1
GKC4 250-163E-1450T-R	262	150	145		65,9	56,8	55,4	52,1	49,3	46,8	44,3	41,7	39	36,3	33,4	30,1
GKC4 250-163T-1450T-R	262	150	145		70,8	57	56	53,5	50,9	48,2	45,4	42,5	39,4	36,2	32,9	28,9
GKC4 250-163B-1450T-R	262	150	145		74,1	61	59,8	57,1	54,4	51,6	48,8	45,9	42,9	39,8	36,6	32,5
GKC4 250-163A-1800T-R	321	184	180		78,1	66,8	65,7	62,8	59,9	57,1	54,3	51,6	48,8	46	43	39,2

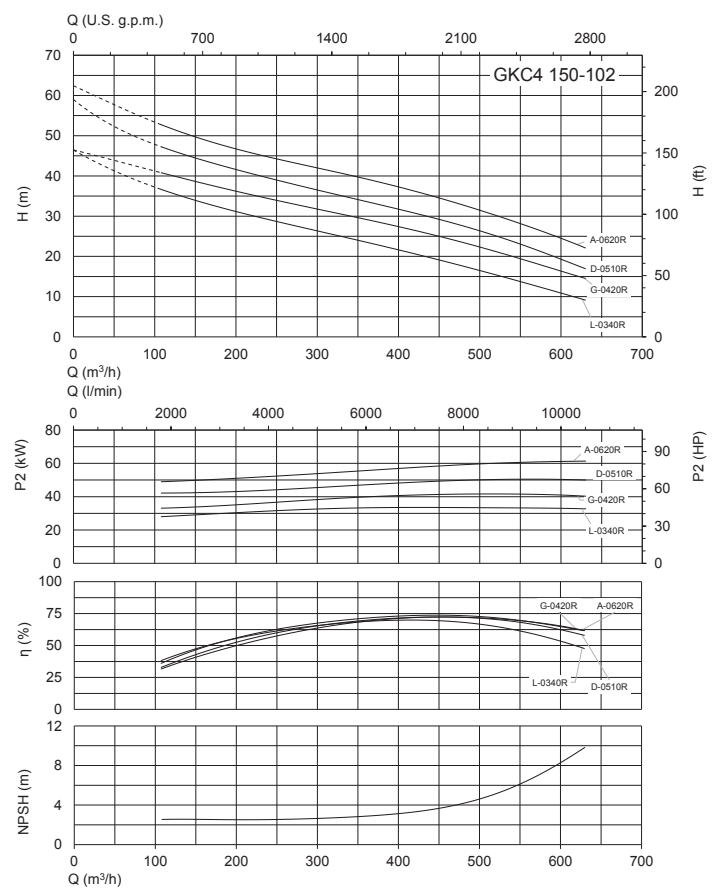
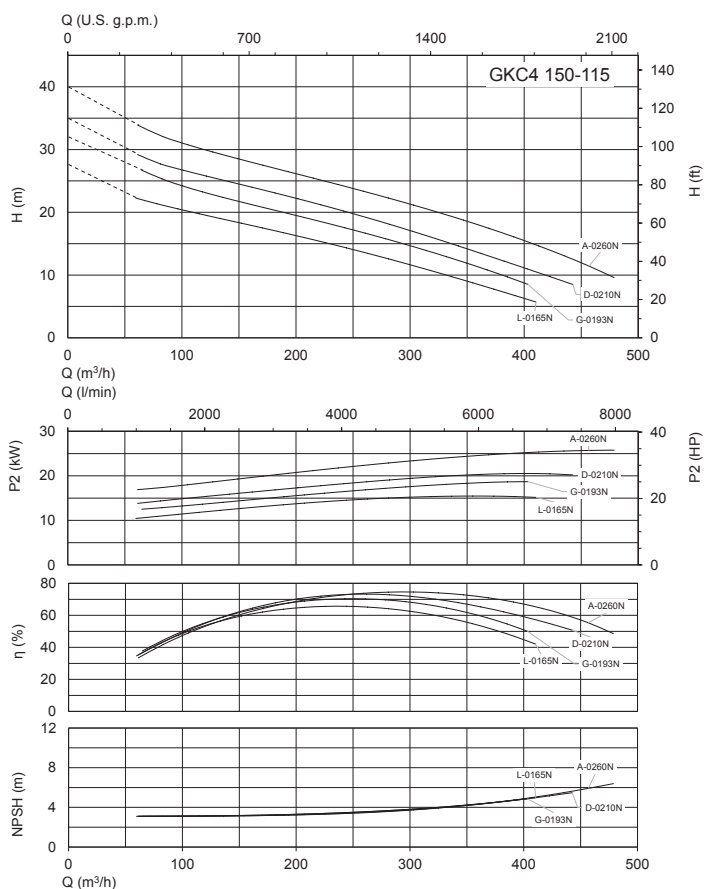
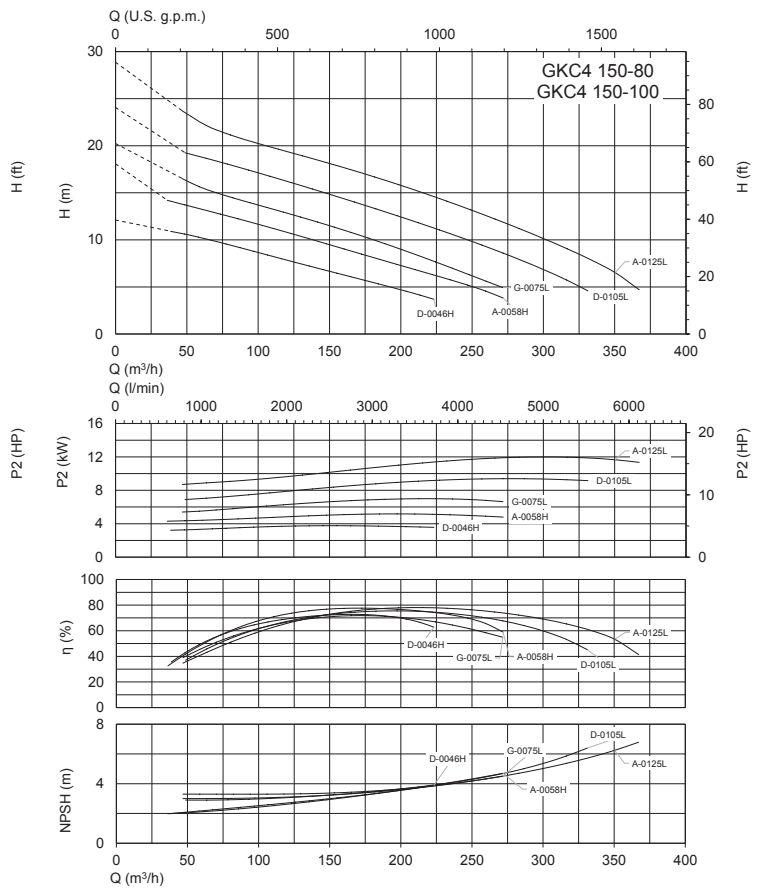
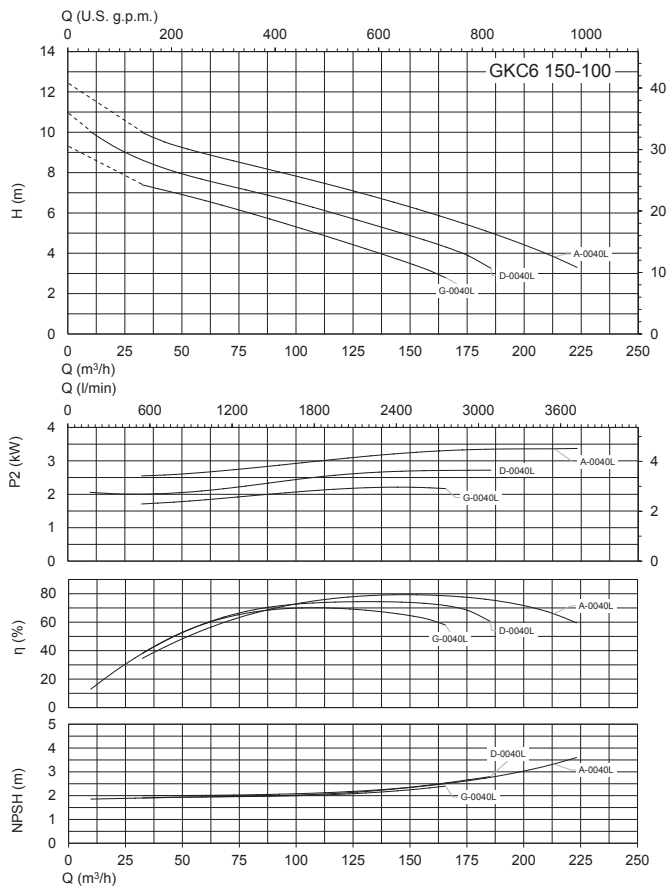
Characteristic curves



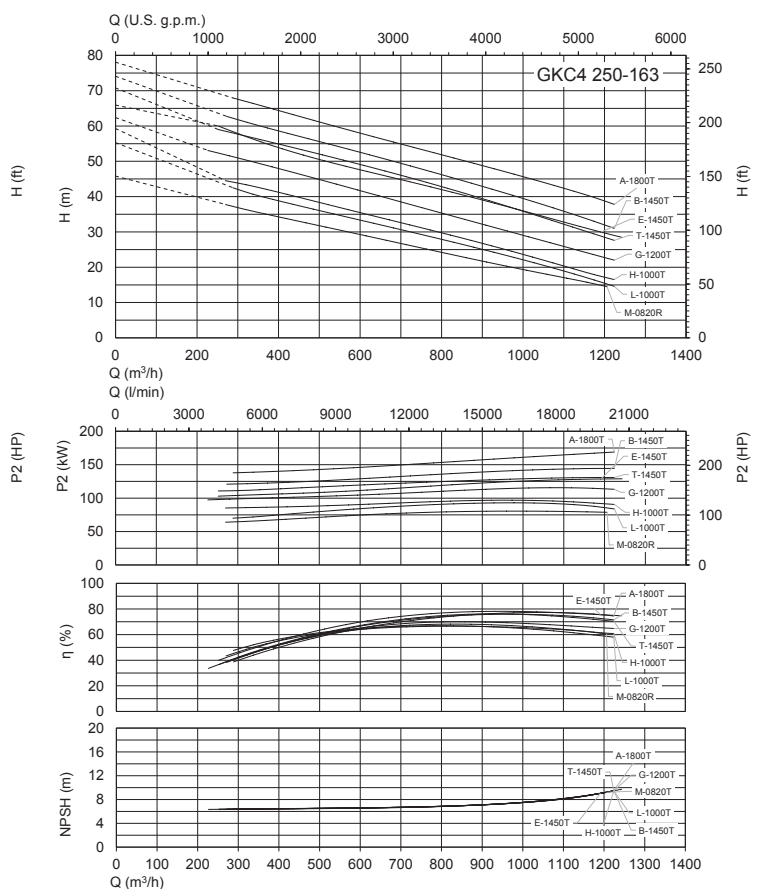
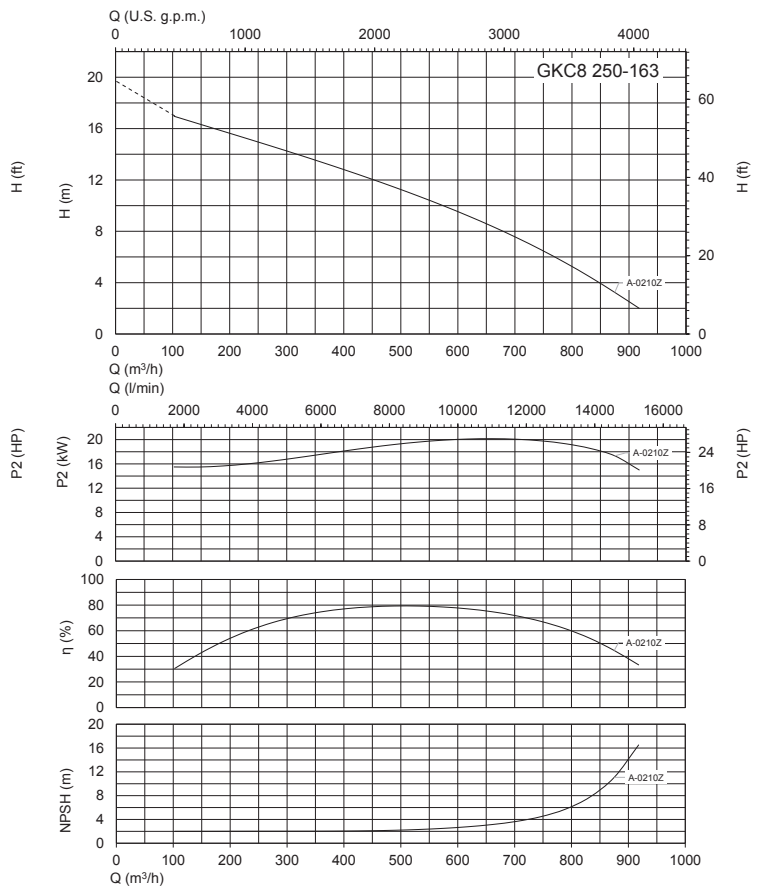
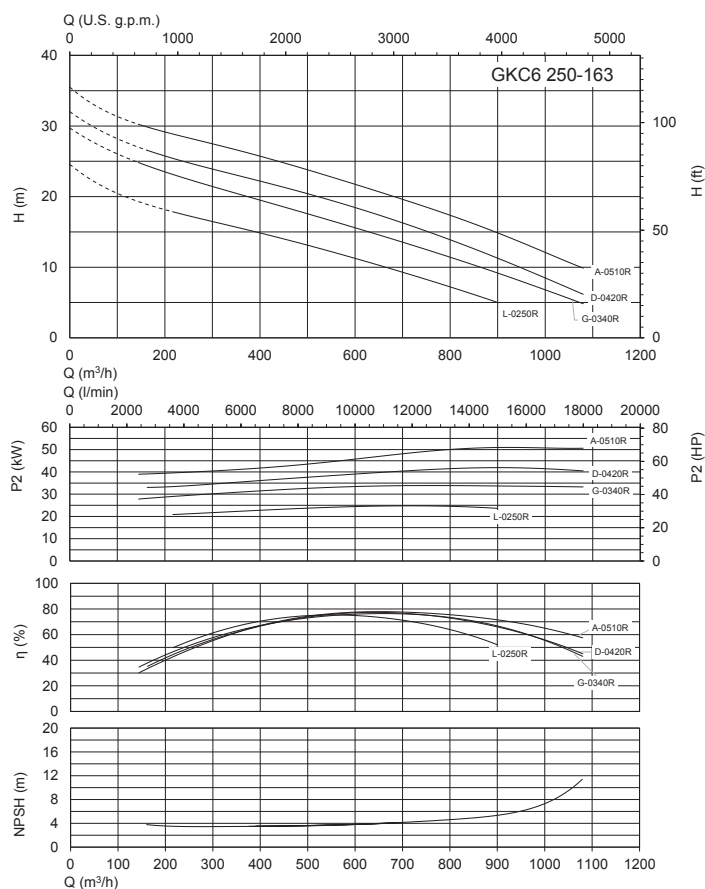
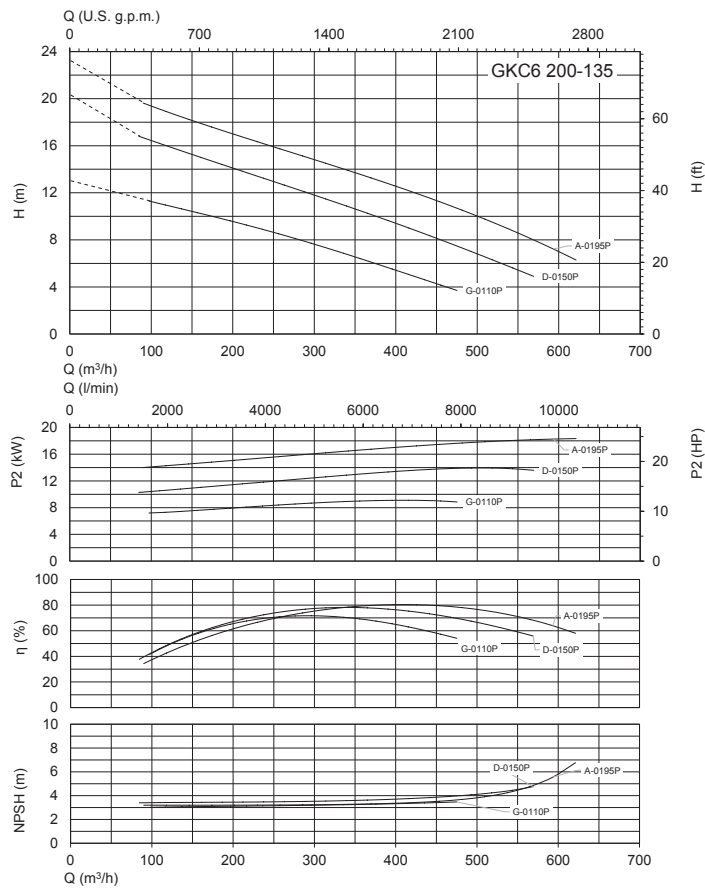
Characteristic curves



Characteristic curves



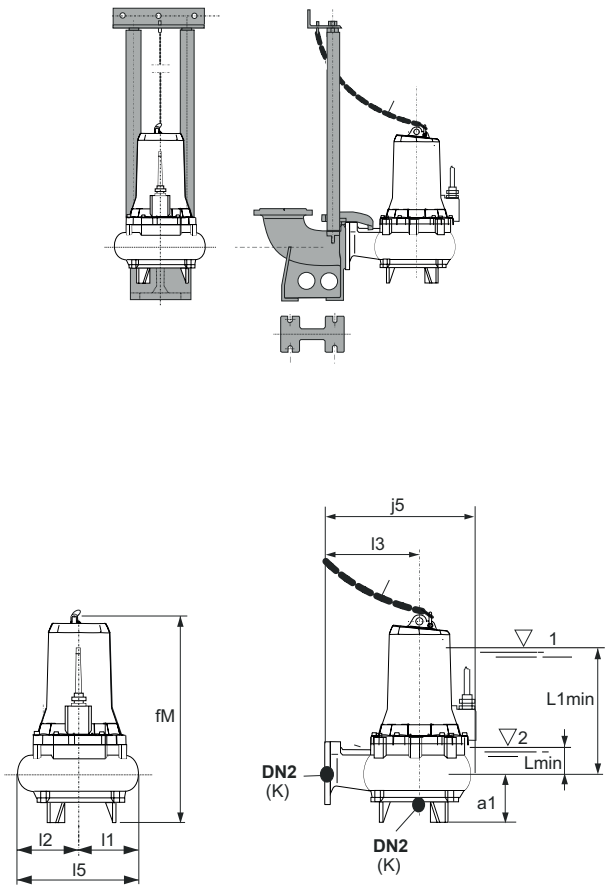
Characteristic curves



Dimensions and weight

Duck foot coupling

SAK



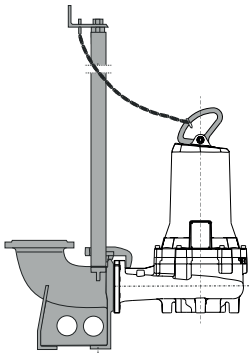
TYPE		mm										Kg
	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	Weight
GKC2 65-40G-0020F	65	140	561.6	373	16	148	148	225	296	255	90	61
GKC2 65-40D-0020F	65	140	561.6	373	16	148	148	225	296	255	90	60
GKC2 65-40A-0025F	65	140	561.6	373	16	148	148	225	296	255	90	58

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

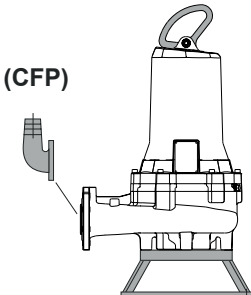
Duck foot coupling

SAK



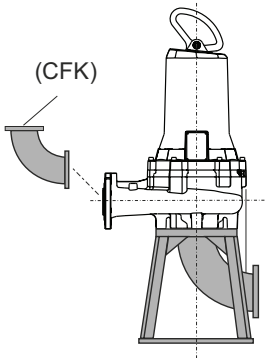
Submersible pump rest

APK



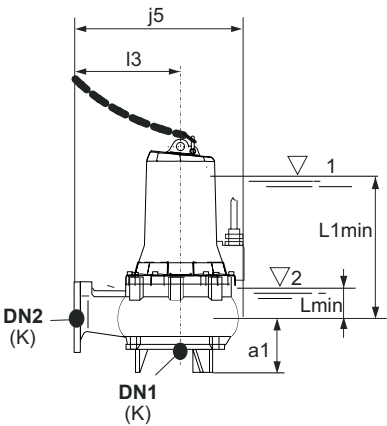
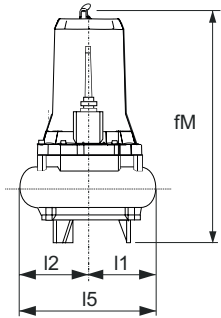
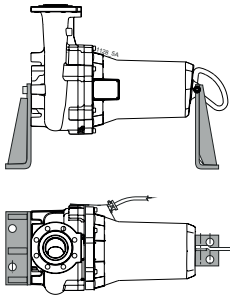
Dry chamber pump rest

APCK



Dry chamber pump support

SOK

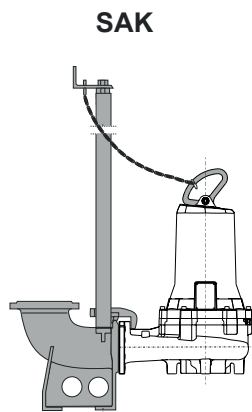


TYPE	mm								Kg Weight
	DN1	DN2	a1	fM	j5	l1	l2	l5	
GKC2 65-40A-0048H	65	65	805	601.7	390	204.5	145	245	98
GKC2 65-40D-0048H	65	65	805	601.7	390	204.5	145	245	-
GKC2 65-40G-0038H	65	65	805	601.7	390	204.5	145	245	-
GKC2 65-40L-0038H	65	65	805	601.7	390	204.5	145	245	-

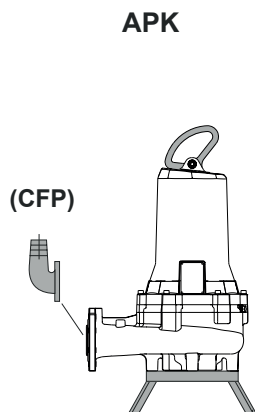
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

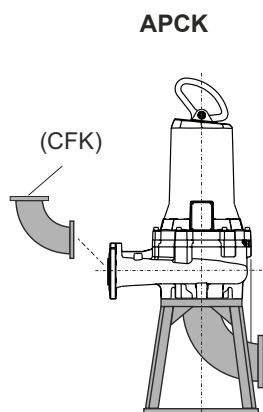
Duck foot coupling



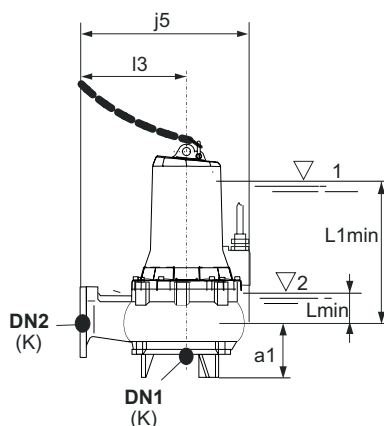
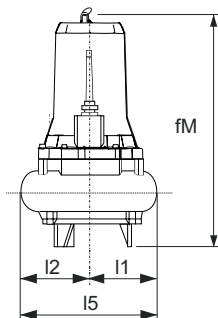
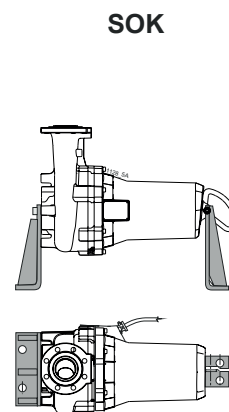
Submersible pump rest



Dry chamber pump rest



Dry chamber pump support



TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	Weight
GKC6 80-75G-0015H	80	80	121	647.3	407	16	204.5	176	245	380.5	297	75	87.2
GKC6 80-75D-0015H	80	80	121	647.3	407	16	204.5	176	245	380.5	297	75	87.1
GKC6 80-75A-0015H	80	80	121	647.3	407	16	204.5	176	245	380.5	297	75	84.9
GKC4 80-75G-0016H	80	80	121	647.3	407	16	204.5	176	245	380.5	297	75	91.3
GKC4 80-75D-0021H	80	80	118	650.3	435	16	204.5	176	255	380.5	370	80	95.6
GKC4 80-75A-0029H	80	80	121	647.3	407	16	204.5	176	245	380.5	297	75	93
GKC4 80-80G-0037H	100	80	120.5	716.4	407	16	221	176	245	397	370	80	117
GKC4 80-80L-0029H	100	80	120.5	647.3	407	16	204.5	176	245	380.5	322	80	95
GKC4 80-80D-0046H	100	80	120.5	716.4	407	16	221	176	245	397	370	80	108
GKC4 80-80A-0058H	100	80	120.5	716.4	407	16	221	176	245	397	370	80	120
GKC2 80-80P-0165L	80	80	95	765.4	498	16	236.5	180	325	416.5	438	87	172.2
GKC2 80-80I-0065L	80	80	95	763	498	16	225.5	180	325	405.5	438	87	134
GKC2 80-80G-0065L	80	80	95	763	498	16	225.5	180	325	405.5	438	87	137
GKC2 80-80E-0090L	80	80	95	763	498	16	225.5	180	325	405.5	438	87	142.5
GKC2 80-80C-0125L	80	80	95	763	498	16	225.5	180	325	405.5	438	87	148.1
GKC2 80-80A-0125L	80	80	95	763	498	16	225.5	180	325	405.5	438	87	148

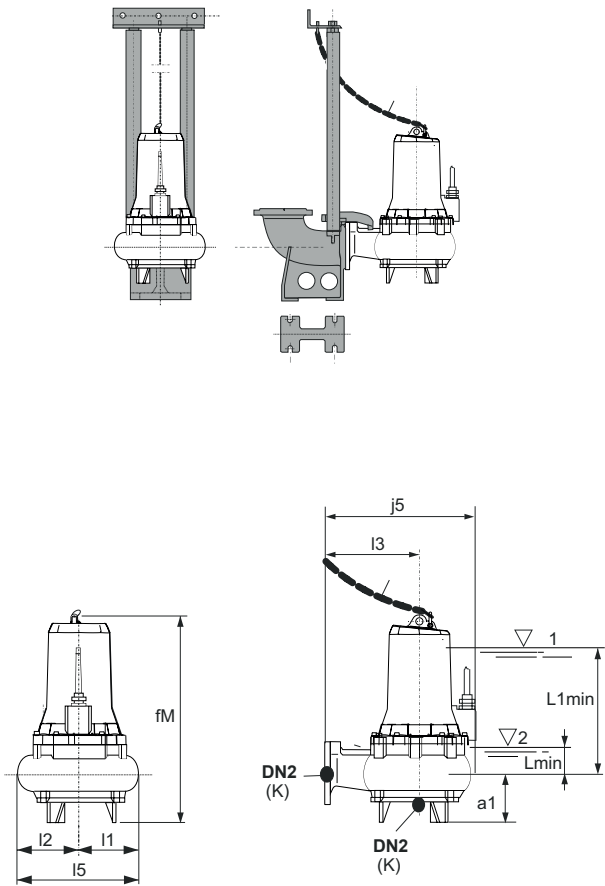
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

Duck foot coupling

SAK



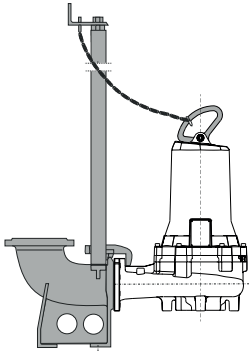
TYPE	mm						
	DN2	a1	fM	j5	l1	l2	l5
GKC4 80-76A-0021F	80	180	622.6	393	144	173	235
GKC4 80-76D-0021F	80	180	622.6	393	144	173	235
GKC4 80-76G-0016F	80	180	622.6	393	144	173	235
GKC4 80-76L-0016F	80	180	622.6	393	144	173	235

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

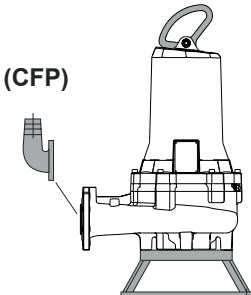
Duck foot coupling

SAK



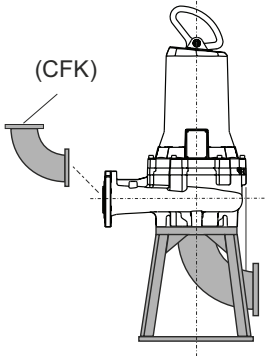
Submersible pump rest

APK



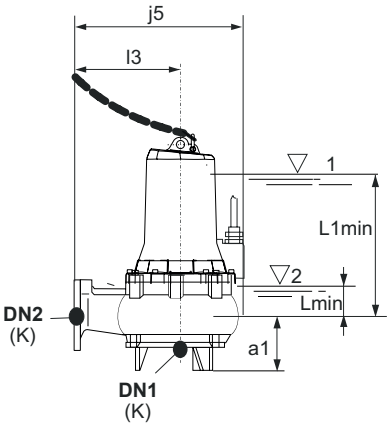
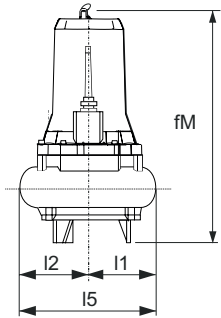
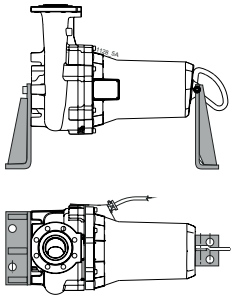
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



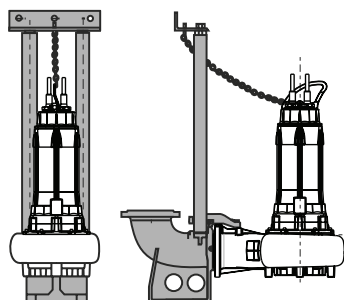
TYPE			mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	
GKC6 100-80L-0015H	100	100	118	650.3	435	16	204.5	198	255	402.5	302	82	94.7
GKC6 100-80G-0015H	100	100	118	650.3	435	16	204.5	198	255	402.5	302	82	94.7
GKC6 100-80D-0018H	100	100	118	719.4	435	16	221	198	255	419	337	82	116
GKC6 100-80A-0018H	100	100	118	719.4	435	16	221	198	255	419	337	82	116
GKC4 100-80L-0029H	100	100	118	650.3	435	16	204.5	198	255	402.5	302	82	103.2
GKC4 100-80G-0037H	100	100	118	719.4	435	16	221	198	255	419	337	82	118
GKC4 100-80D-0046H	100	100	118	719.4	435	16	221	198	255	419	337	82	113
GKC4 100-80A-0058H	100	100	118	719.4	435	16	221	198	255	419	337	82	126.6

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

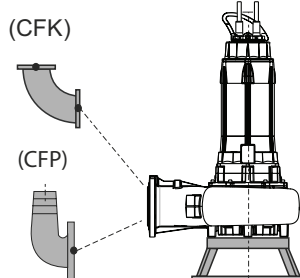
Duck foot coupling

SAK



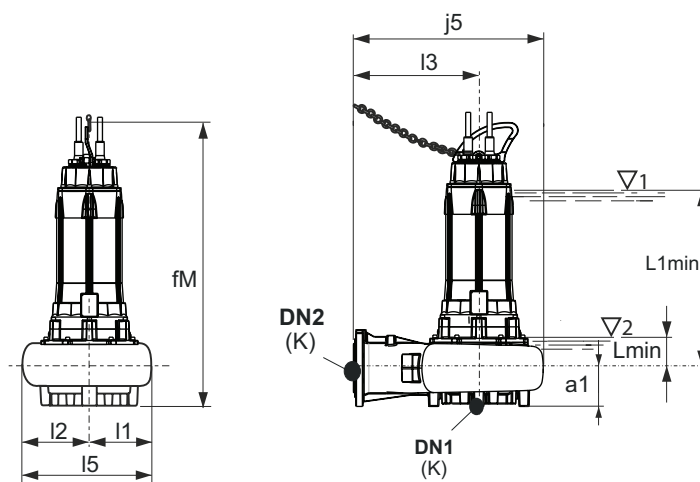
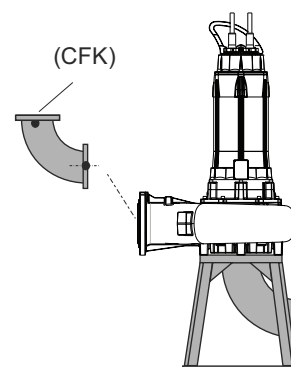
Submersible pump rest

APK



Dry chamber pump rest

APCK



TYPE			mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	I1	I2	I5	I5	L1min	Lmin	
GKC4 100-100L-0165N	150	100	160	1240	551	16	224	262	308	486	795	174	340
GKC4 100-100G-0193N	150	100	160	1240	551	16	224	262	308	486	795	174	371.9
GKC4 100-100D-0193N	150	100	160	1240	551	16	224	262	308	486	795	174	372.8
GKC4 100-100A-0230N	150	100	160	1240	551	16	224	262	308	486	795	174	380.7
GKC2 100-80C-0260N	100	100	110	1183	553	16	200	200	335	400	788	167	343.9
GKC2 100-80D-0260N	100	100	110	1183	553	16	200	200	335	400	788	167	343.7
GKC2 100-80G-0260N	100	100	110	1183	553	16	200	200	335	400	788	167	342.3
GKC2 100-80F-0260N	100	100	110	1183	553	16	200	200	335	400	788	167	342.4
GKC2 100-80E-0260N	100	100	110	1183	553	16	200	200	335	400	788	167	342.9
GKC2 100-80C-0350N	100	100	110	1183	553	16	200	200	335	400	788	167	367.1
GKC2 100-80D-0350N	100	100	110	1183	553	16	200	200	335	400	788	167	366.9
GKC2 100-80B-0350N	100	100	110	1183	553	16	200	200	335	400	788	167	367.4
GKC2 100-80A-0350N	100	100	110	1183	553	16	200	200	335	400	788	167	368.1

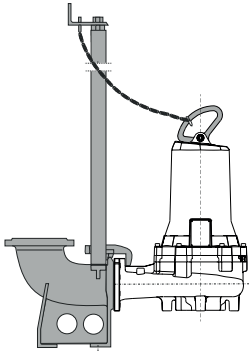
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

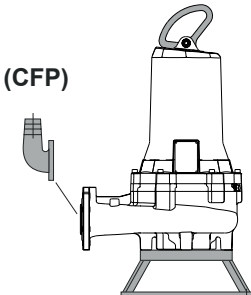
Duck foot coupling

SAK



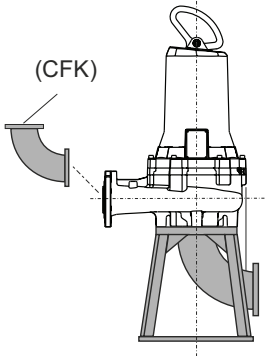
Submersible pump rest

APK



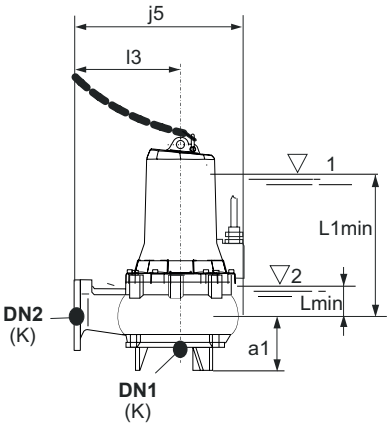
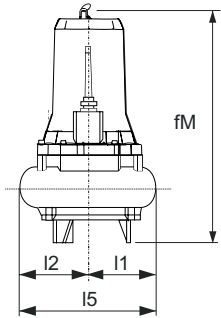
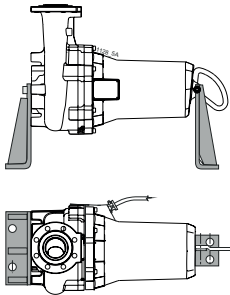
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



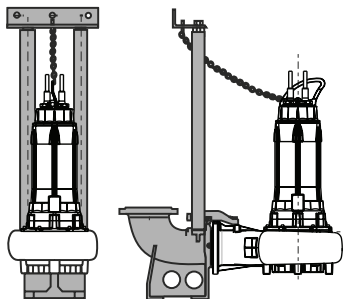
TYPE			mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	
GKC6 150-100G-0040L	150	150	138	808	532	16	227	241	305	468	440	89	168.5
GKC6 150-100D-0040L	150	150	138	808	532	16	227	241	305	468	440	89	168
GKC6 150-100A-0040L	150	150	138	808	532	16	227	241	305	468	440	89	167.8
GKC4 150-80D-0046H	150	150	138	752.9	567	16	227	238.5	340	465.5	350	95	153
GKC4 150-80A-0058H	150	150	138	752.9	567	16	227	238.5	340	465.5	350	95	164.4
GKC4 150-100G-0075L	150	150	138	808	532	16	227	241	305	468	440	89	177
GKC4 150-100D-0105L	150	150	138	810.4	532	16	236	241	305	477	440	89	199.7
GKC4 150-100A-0125L	150	150	138	810.4	532	16	236.5	241	305	477.5	440	89	199.5

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

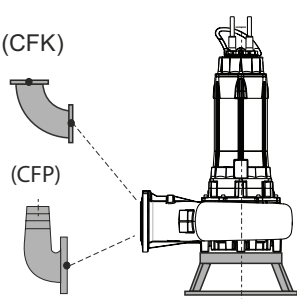
Duck foot coupling

SAK



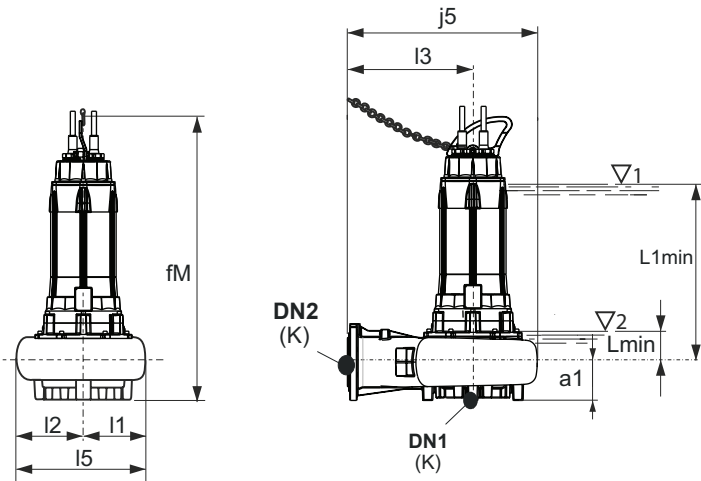
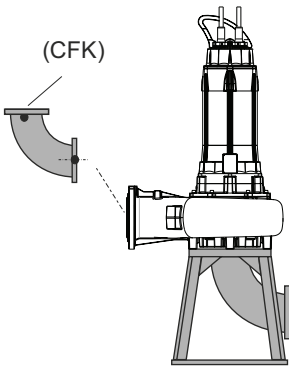
Submersible pump rest

APK



Dry chamber pump rest

APCK



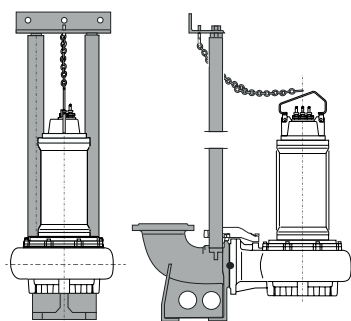
TYPE	mm												Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	
GKC4 150-115L-0165N	150	150	160	1240	658	16	229	278	405	507	795	174	358
GKC4 150-115G-0193N	150	150	160	1240	658	16	229	278	405	507	795	174	379.9
GKC4 150-115D-0210N	150	150	160	1240	658	16	229	278	405	507	795	174	380
GKC4 150-115A-0260N	150	150	160	1240	658	16	229	278	405	507	795	174	388.7

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

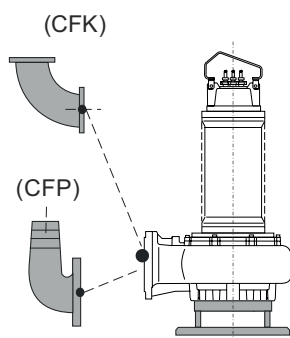
Duck foot coupling

SAK



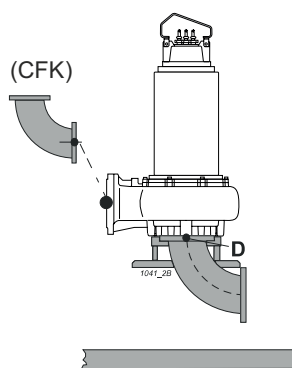
Submersible pump rest

APK



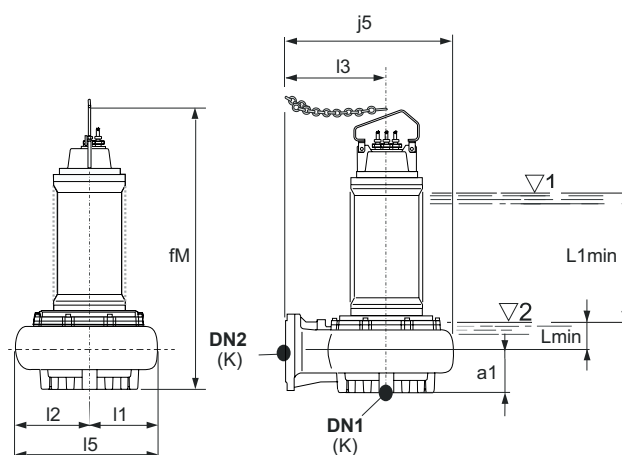
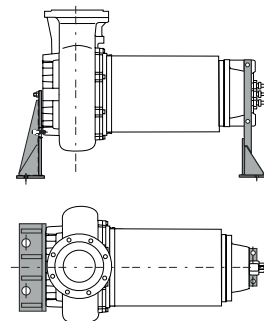
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE			mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	
GKC4 150-102L-0340R	150	150	195	1569	825	16	305	365	500	670	948	182	567
GKC4 150-102G-0420R	150	150	195	1569	825	16	305	365	500	670	948	182	677
GKC4 150-102D-0510R	150	150	195	1569	825	16	305	365	500	670	948	182	607
GKC4 150-102A-0620R	150	150	195	1623	825	16	305	365	500	670	1002	182	812
GKC4 150-102L-0340R-R	150	150	195	1559.5	825	16	305	365	500	670	900	155	582
GKC4 150-102G-0420R-R	150	150	195	1559.5	825	16	305	365	500	670	900	155	692
GKC4 150-102D-0510R-R	150	150	195	1559.5	825	16	305	365	500	670	900	155	622
GKC4 150-102A-0620R-R	150	150	195	1581.5	825	16	305	365	500	670	900	155	832

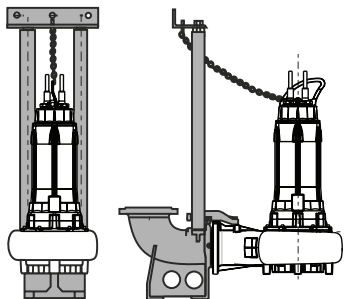
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

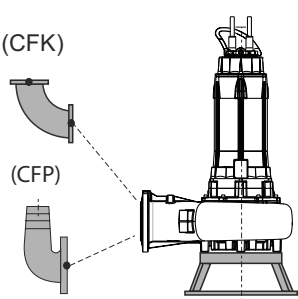
Duck foot coupling

SAK



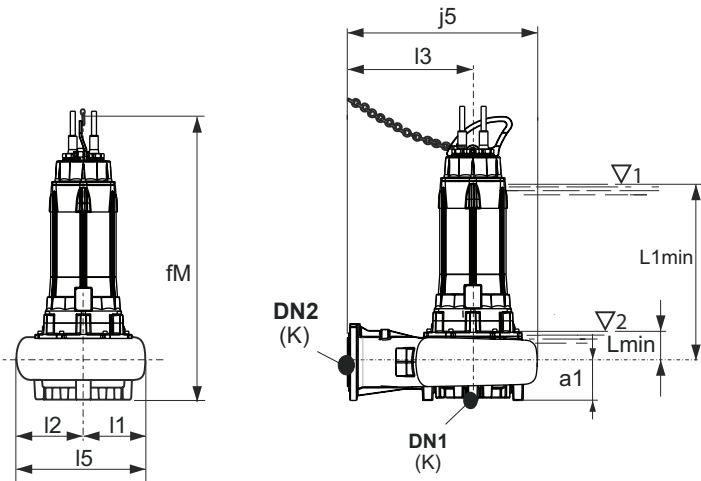
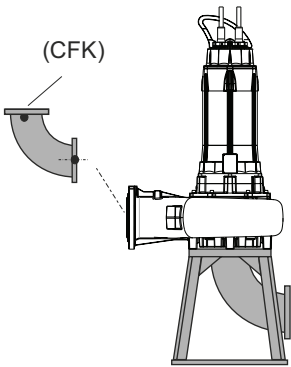
Submersible pump rest

APK



Dry chamber pump rest

APCK



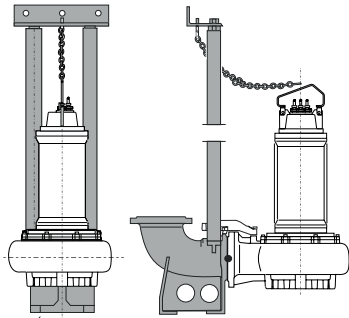
TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	I1	I2	I5	I5	L1min	Lmin	Weight
GKC6 200-135G-0110P	200	200	185	1280	765	10	277	345	455	622	810	189	423.3
GKC6 200-135D-0150P	200	200	185	1280	765	10	277	345	455	622	810	189	450.2
GKC6 200-135A-0195P	200	200	185	1280	765	10	277	345	455	622	810	189	497.5

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

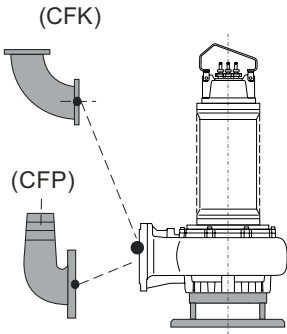
Duck foot coupling

SAK



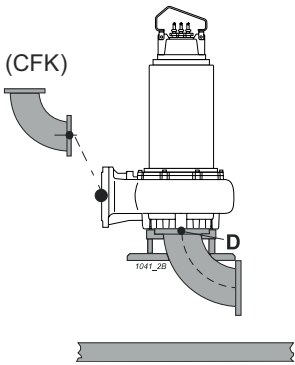
Submersible pump rest

APK



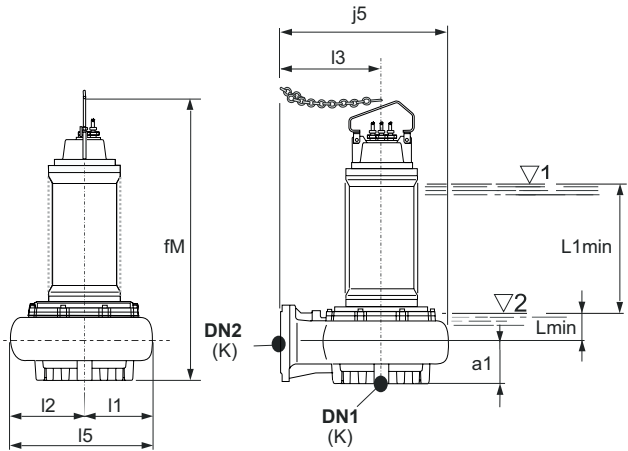
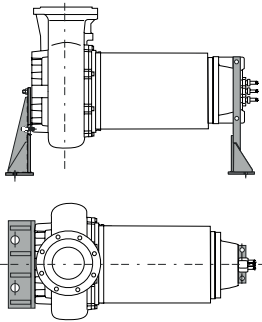
Dry chamber pump rest

APCK



Dry chamber pump support

SOK

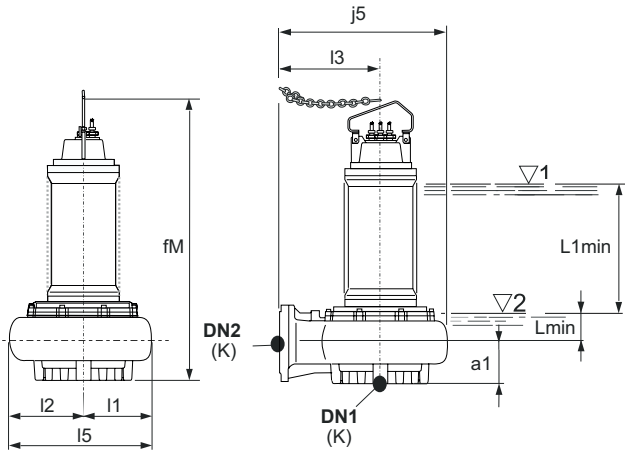
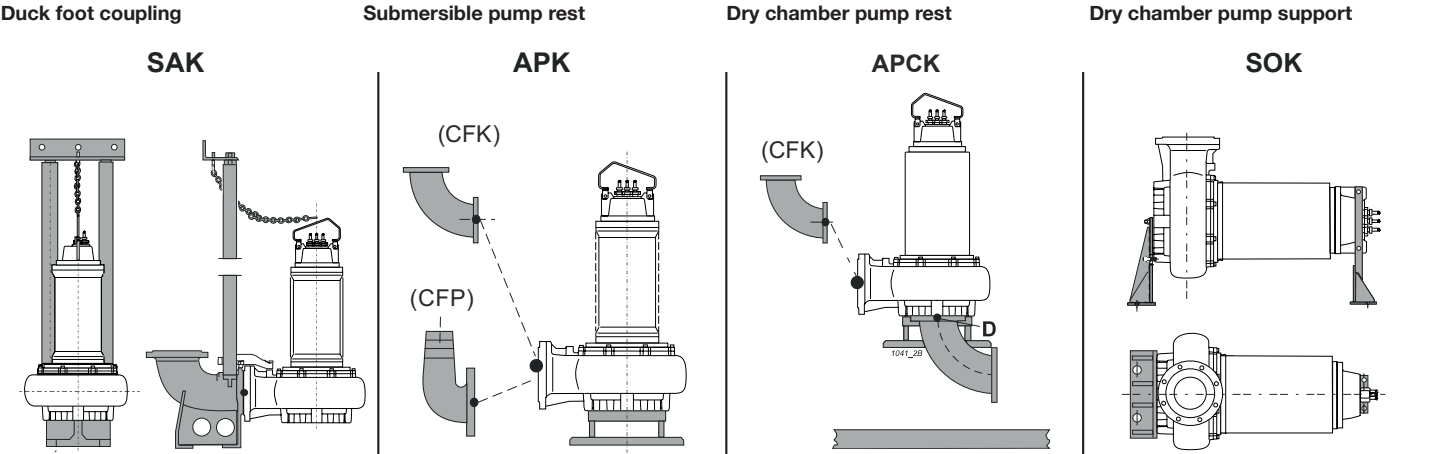


HL minimum level of submersibility

TYPE			mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	
GKC8 250-163A-0210Z	250	250	220	1612.5	935	10	330	405	570	735	930	185	653
GKC8 250-163A-0210Z-R	250	250	220	1612.5	935	10	330	405	570	735	930	185	668

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight



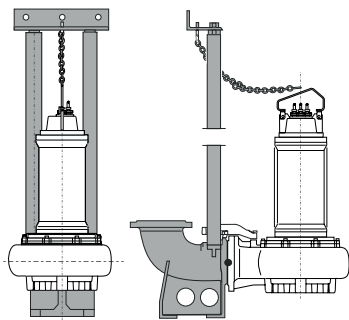
TYPE			mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	
GKC6 250-163L-0250R	250	250	220	1622	935	10	329	407	570	735	976	210	717
GKC6 250-163G-0340R	250	250	220	1622	935	10	329	407	570	735	976	210	653
GKC6 250-163D-0420R	250	250	220	1676	935	10	329	407	570	735	1030	210	744
GKC6 250-163A-0510R	250	250	220	1709	935	10	329	407	570	735	1063	210	885
GKC6 250-163L-0250R-R	250	250	220	1612.5	935	10	330	405	570	735	930	185	732
GKC6 250-163G-0340R-R	250	250	220	1612.5	935	10	330	405	570	735	930	185	668
GKC6 250-163D-0420R-R	250	250	220	1612.5	935	10	330	405	570	735	930	185	688
GKC6 250-163A-0510R-R	250	250	220	1644.5	935	10	330	405	570	735	930	185	1023

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

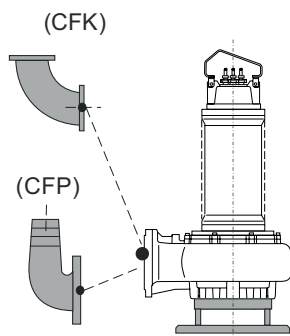
Duck foot coupling

SAK



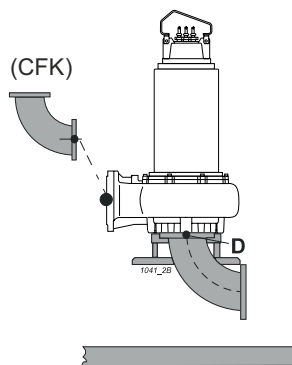
Submersible pump rest

APK



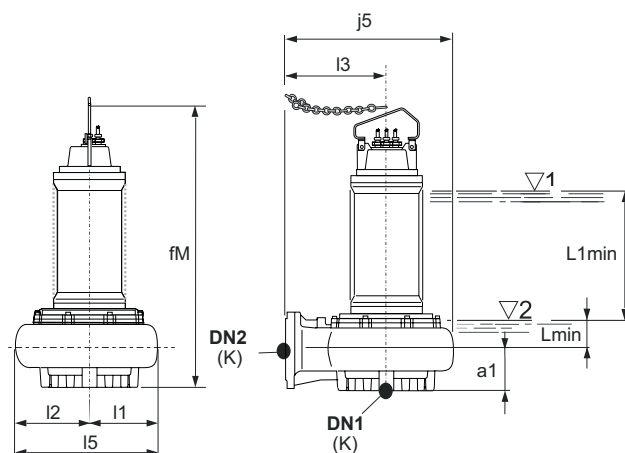
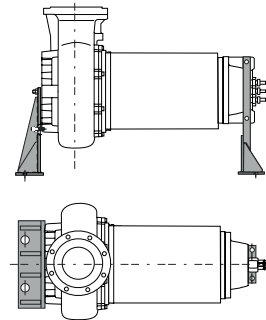
Dry chamber pump rest

APCK



Dry chamber pump support

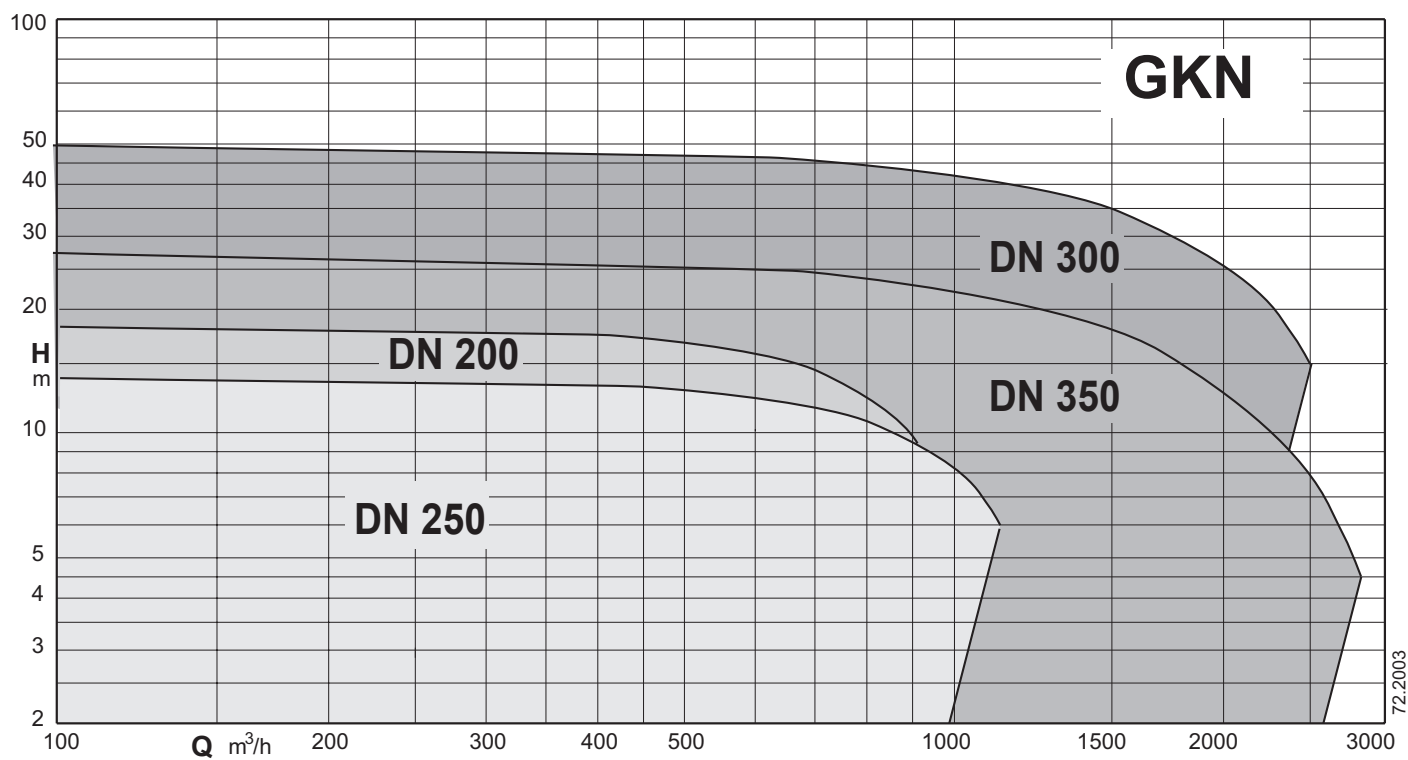
SOK



TYPE	DN1	DN2	mm										Kg
			a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	Weight
GKC4 250-163M-0820R	250	250	220	1666.5	935	10	330	405	570	735	1023	185	-
GKC4 250-163L-1000T	250	250	220	1880	935	10	330	405	570	735	1140	185	1078
GKC4 250-163H-1000T	250	250	220	1880	935	10	330	405	570	735	1140	185	1355
GKC4 250-163G-1200T	250	250	220	1880	935	10	330	405	570	735	1140	185	1416
GKC4 250-163E-1450T	250	250	220	1880	935	10	330	405	570	735	1140	185	1468
GKC4 250-163T-1450T	250	250	220	1880	935	10	330	405	570	735	1140	185	1469
GKC4 250-163B-1450T	250	250	220	1880	935	10	330	405	570	735	1140	185	1880
GKC4 250-163A-1800T	250	250	220	2116	935	10	330	405	570	735	1350	185	1872
GKC4 250-163M-0820R-R	250	250	220	1666.5	935	10	330	405	570	735	1023	185	-
GKC4 250-163L-1000T-R	250	250	220	1880	935	10	330	405	570	735	1140	185	1311
GKC4 250-163H-1000T-R	250	250	220	1880	935	10	330	405	570	735	1140	185	1588
GKC4 250-163G-1200T-R	250	250	220	1880	935	10	330	405	570	735	1140	185	1650
GKC4 250-163E-1450T-R	250	250	220	1880	935	10	330	405	570	735	1140	185	1702
GKC4 250-163T-1450T-R	250	250	220	1880	935	10	330	405	570	735	1140	185	1703
GKC4 250-163B-1450T-R	250	250	220	1880	935	10	330	405	570	735	1140	185	1705
GKC4 250-163A-1800T-R	250	250	220	2116	935	10	330	405	570	735	1350	185	2200

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)



submersible pumps with channels impeller



Construction

Submersible pumps with multi-channel impeller.
Characterised by good protection against clogging, large spherical passages, good wear resistance, low mechanical action on the fluid and high hydraulic efficiency at high flow rate.
Low vibrations thanks to the dynamically balanced impeller.
Delivery port DN 200-250-300-350.

Applications

For the movement of sewage and sewage grates.
Particularly suitable for the emptying of sewage from cesspits or primary collection tanks or industrial waste water.
They replace single-channel pumps when a high solids passage diameter is not required.
Solid passage from 100 to 164 mm.

Operating conditions

Liquid temperature: from 0°C to +40°C.
Maximum immersion depth: 20m (with cable of suitable length).
Maximum working pressure: 80 m.w.c.
pH of the liquid to be lifted: 4 ÷ 10
Continuous service (with water at minimum immersion level).

Materials

Pump casing: cast iron EN-GJL250 UNI-EN 1561-11
Impeller: cast iron EN-GJL250 UNI-EN 1561-11
Motor casing: cast iron EN-GJL250 UNI-EN 1561-11 / EN-GJL450 UNI-EN 1561-11
Shaft: stainless steel X20Cr13 (AISI420)
Pump mechanical seal with flange size F - H - L - N - P
- motor side: graphite/ceramic
- pump side: silicon/ceramic carbide
Pump mechanical seal with flange size R - Z - T
- motor side: stainless steel/graphite
- pump side: Silicon carbide/silicon carbide

Motor

Induction motor 4-6 or 8 poles, 50Hz
400/690V ± 10%
Isolation class: F or H
Degree of protection: IP 68
Max number of starts per hour:
- 20 up to 5 kW
- 15 up to 10 kW
- 10 for higher powers

Cable: length 10m
Direction of rotation: clockwise top view
Motor suitable for operation with frequency converter.

Special features on request

(Check feasibility according to the model with our Technical Sales Office)
Impeller in stainless steel AISI 316 or bronze.
Bronze impeller seat ring.
Cable length up to 40 m
Other mechanical seal.
Higher or lower liquid or ambient temperatures.
Ceramic coating.
Internal anti-erosion coating, external anti-corrosion.

Designation

GKN4 200-100A-0260R
GK = Series
N = Multi-channel impeller
4 = Number of poles
200 = Delivery port diameter in mm
100 = Free passage in mm
A = Impeller trim
0260 = Motor size kW x 10
F = Size of electric motor flange
R = With cooling jacket / oil chamber

Technical data

TYPE	Dry chamber version		Probes		Cable		Class	Duck foot coupling	Submersible pump rest	Dry chamber pump rest	Dry chamber pump support
	Vertical	Horizontal	thermal	conductivity	NSSHOU-J	H07RN-F	Isolation				
GKN6 200-100A-0075N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	SOK150/N3
GKN6 200-100G-0075N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	SOK150/N3
GKN6 200-100L-0075N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	SOK150/N3
GKN6 200-100A-0110N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	—
GKN6 200-100G-0110N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	—
GKN6 200-100L-0110N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	—
GKN4 200-100A-0260N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	—
GKN4 200-100D-0210N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	—
GKN4 200-100G-0193N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	—
GKN4 200-100L-0165N	#	—	•	•	•	—	H / IE3	SAK 200-250-3	APK 150	APCK 200	—
GKN6 250-115A-0195P	#	—	•	•	•	—	H / IE3	SAK 250-300-3	APK 250	APCK 250	—
GKN6 250-115D-0150P	#	—	•	•	•	—	H / IE3	SAK 250-300-3	APK 250	APCK 250	—
GKN6 250-115I-0110P	#	—	•	•	•	—	H / IE3	SAK 250-300-3	APK 250	APCK 250	—
GKN8 300-143A-0210Z	—	—	•	•	—	•	F	SAK 300-350-3	APK 350	—	—
GKN8 300-143B-0210Z-R	\$	\$	•	•	—	•	F	SAK 300-350-3	—	APCK 300	—
GKN8 300-143D-0170Z	—	—	•	•	—	•	F	SAK 300-350-3	APK 350	—	—
GKN8 300-143E-0170Z-R	\$	\$	•	•	—	•	F	SAK 300-350-3	—	APCK 300	—
GKN6 300-143A-0510R	—	—	•	•	•	—	H / IE3	SAK 300-350-3	APK 350	—	—
GKN6 300-143B-0510R-R	#	—	•	•	•	—	H / IE3	—	—	APCK 300	—
GKN6 300-143D-0420R	—	—	•	•	•	—	H / IE3	SAK 300-350-3	APK 350	—	—
GKN6 300-143E-0420R-R	#	—	•	•	•	—	H / IE3	—	—	APCK 300	—
GKN6 300-143G-0340R	—	—	•	•	•	—	H / IE3	SAK 300-350-3	APK 350	—	—
GKN6 300-143H-0340R-R	#	—	•	•	•	—	H / IE3	—	—	APCK 300	—
GKN6 300-143M-0250R	—	—	•	•	•	—	H / IE3	SAK 300-350-3	APK 350	—	—
GKN6 300-143N-0250R-R	#	—	•	•	•	—	H / IE3	—	—	APCK 300	—

• = Standard
- = Not present

o = Optional

= Version with oil chamber
\$ = Version with cooling jacket

= In case of operation in a dry chamber or with a low level of the pumped liquid, it is necessary to introduce the cooling oil according to the quantities indicated in the use and maintenance manual

Technical data

TYPE	Dry chamber version		Probes		Cable		Class Isolation	Duck foot coupling	Submersible pump rest	Dry chamber pump rest	Dry chamber pump support
	Vertical	Horizontal	thermal	conductivity	NSSHOU-J	H07RN-F					
GKN8 350-143A-0420R	–	–	•	•	–	•	F	SAK 350-400-3	APK 350	–	–
GKN8 350-143B-0420R-R	\$	\$	•	•	–	•	F	SAK 350-400-3	–	APCK 350	SOK350-250
GKN8 350-143G-0340R	–	–	•	•	–	•	F	SAK 350-400-3	APK 350	–	–
GKN8 350-143H-0340R-R	\$	\$	•	•	–	•	F	SAK 350-400-3	–	APCK 350	SOK350-225
GKN8 350-143O-0250R	–	–	•	•	–	•	F	SAK 350-400-3	APK 350	–	–
GKN8 350-143P-0250R-R	\$	\$	•	•	–	•	F	SAK 350-400-3	–	APCK 350	SOK350-225
GKN8 350-143S-0210R	–	–	•	•	–	•	F	SAK 350-400-3	APK 350	–	–
GKN8 350-143T-0210R-R	\$	\$	•	•	–	•	F	SAK 350-400-3	–	APCK 350	SOK350-200
GKN6 350-164S-0510R	–	–	•	•	•	–	H / IE3	SAK 350-400-3A	APK 350	–	–
GKN6 350-164T-0510R-R	#	–	•	•	•	–	H / IE3	–	–	APCK 350	–
GKN6 350-164V-0420R	–	–	•	•	•	–	H / IE3	SAK 350-400-3A	APK 350	–	–
GKN6 350-164W-0420R-R	#	–	•	•	•	–	H / IE3	–	–	APCK 350	–
GKN4 300-143A-1800T	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143B-1800T-R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-315
GKN4 300-143D-1450T	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143E-1450T-R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-280
GKN4 300-143G-1200T	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143H-1200T-R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-280
GKN4 300-143I-1000T	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143L-1000T-R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-280
GKN4 300-143M-0900T	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143N-0820R	–	–	•	•	•	–	H / IE3	SAK 300-350-3A	APK 350	–	–
GKN4 300-143P-0900T-R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-250
GKN4 300-143Q-0820R-R	#	–	•	•	•	–	H / IE3	SAK 300-350-3A	–	APCK 300	–
GKN6 350-164A-1000T	–	–	•	•	–	•	F	SAK 350-400-3A	APK 350	–	–
GKN6 350-164B-1000T-R	\$	\$	•	•	–	•	F	SAK 350-400-3A	–	APCK 350	SOK350-280
GKN6 350-164G-0820R	–	–	•	•	•	–	H / IE3	SAK 350-400-3A	APK 350	–	–
GKN6 350-164H-0820R-R	#	\$	•	•	•	–	H / IE3	SAK 350-400-3A	–	APCK 350	–
GKN6 350-164O-0600T	–	–	•	•	–	•	F	SAK 350-400-3A	APK 350	–	–
GKN6 350-164P-0600T-R	\$	\$	•	•	–	•	F	SAK 350-400-3A	–	APCK 350	SOK350-280

• = Standard
– = Not present

o = Optional

= Version with oil chamber
\$ = Version with cooling jacket

= In case of operation in a dry chamber or with a low level of the pumped liquid, it is necessary to introduce the cooling oil according to the quantities indicated in the use and maintenance manual

Performance

n ≈ 950 1/min

Model				Q = Flow													
				m³/h	0	108	126	144	162	180	216	252	288	324	360	450	540
				l/min		1800	2100	2400	2700	3000	3600	4200	4800	5400	6000	7500	9000
				A	P2	H (m) = Total head											
				kW													
GKN6 200-100L-0075N	15,8	9,1	7,5		5,9	-	4,8	4,6	4,5	4,3	3,9	3,5	3,1	2,7	2,3	-	-
GKN6 200-100G-0075N	15,8	9,1	7,5		7,7	-	6,1	5,9	5,7	5,6	5,2	4,8	4,4	3,9	3,4	2,2	-
GKN6 200-100A-0075N	15,8	9,1	7,5		10,4	-	-	-	7,9	7,7	7,3	6,9	6,4	5,9	5,3	3,8	2,1
GKN6 200-100L-0110N	23,8	13,7	11		5,9	5	4,8	4,6	4,4	4,3	4	3,7	3,3	3	2,5	-	-
GKN6 200-100G-0110N	23,8	13,7	11		8,1	-	-	6,4	6,2	6	5,6	5,3	4,9	4,4	4	2,7	-
GKN6 200-100A-0110N	23,8	13,7	11		11,6	-	-	-	8,2	8	7,6	7,2	6,9	6,5	6	4,7	3,1

n ≈ 1450 1/min

				Q = Flow												
				m³/h	0	216	252	288	324	360	450	540	630	720	810	900
Model	400V	690V	P2	l/min		3600	4200	4800	5400	6000	7500	9000	10500	12000	13500	15000
	A		kW	H (m) = Total head												
GKN4 200-100L-0165N	31,2	18	16,5		12,9	10	9,5	9	8,6	8,1	6,9	5,4	3,6	-	-	-
GKN4 200-100G-0193N	38,8	22,4	19,3		18	14,2	13,6	13	12,4	11,9	10,4	8,8	7	4,9	2,9	-
GKN4 200-100D-0210N	39	22,5	21		20,1	-	14,9	14,2	13,6	13	11,6	10	8,1	6	3,8	-
GKN4 200-100A-0260N	47,2	27,3	26		24,9	18,1	17,6	17	16,5	15,9	14,5	12,9	11	8,7	6,1	3,7

n ≈ 950 1/min

Model				Q = Flow													
				m³/h	0	252	288	324	360	450	540	630	720	810	900	990	1080
				l/min		4200	4800	5400	6000	7500	9000	10500	12000	13500	15000	16500	18000
				A	P2	H (m) = Total head											
				kW													
GKN6 250-115I-0110P	23,8	13,7	11		8,4	6,4	6,1	5,8	5,6	4,9	4	3,1	2,1	-	-	-	-
GKN6 250-115D-0150P	33	19,1	15		11,4	9,4	9,1	8,8	8,5	7,7	6,8	5,8	4,7	3,5	2,2	-	-
GKN6 250-115A-0195P	40,2	23,2	19,5		15	13,1	12,7	12,3	11,9	10,8	9,8	8,7	7,6	6,4	5,1	3,8	2,5

n ≈ 725 1/min

Model				Q = Flow													
				m³/h	0	288	360	450	540	630	720	810	900	990	1080	1170	1260
				l/min		4800	6000	7500	9000	10500	12000	13500	15000	16500	18000	19500	21000
				A	P2	H (m) = Total head											
				kW													
GKN8 300-143D-0170Z	36,0	20,6	17		11,1	8,6	8,2	7,7	7,3	6,8	6,3	5,7	5	4,2	3,4	2,6	1,7
GKN8 300-143A-0210Z	44,1	25,2	21		13	10,1	9,8	9,4	8,9	8,3	7,7	6,9	6,2	5,4	4,6	3,8	3
GKN8 300-143E-0170Z-R	36,0	20,6	17		11,1	8,6	8,2	7,7	7,3	6,8	6,3	5,7	5	4,2	3,4	2,6	1,7
GKN8 300-143B-0210Z-R	44,1	25,2	21		13	10,1	9,8	9,4	8,9	8,3	7,7	6,9	6,2	5,4	4,6	3,8	3

n ≈ 950 1/min

Model				Q = Flow													
				m³/h	0	324	360	450	540	630	720	900	1080	1260	1440	1620	1800
				l/min		5400	6000	7500	9000	10500	12000	15000	18000	21000	24000	27000	30000
				A	P2	H (m) = Total head											
				kW													
GKN6 300-143M-0250R	49	28,3	25		11,6	9,6	9,4	9	8,5	8,1	7,6	6,4	5,1	3,5	2	-	-
GKN6 300-143G-0340R	64,6	37,3	34		16,4	-	12,7	12,4	12	11,5	10,9	9,6	8	6,2	4,3	-	-
GKN6 300-143D-0420R	76,5	44,2	42		20,5	-	15,3	14,8	14,3	13,9	13,4	12,2	10,6	8,6	6,4	4,2	-
GKN6 300-143A-0510R	91	52,5	51		23,7	-	18	17,5	17	16,6	16,1	14,8	13,1	11	8,8	6,5	4,1
GKN6 300-143N-0250R-R	49	28,3	25		11,6	-	9,7	9,2	8,8	8,3	7,8	6,7	5,3	3,8	-	-	-
GKN6 300-143H-0340R-R	64,6	37,3	34		16,4	-	13	12,7	12,3	11,8	11,2	9,9	8,3	6,5	4,7	-	-
GKN6 300-143E-0420R-R	76,5	44,2	42		20,5	-	15,6	15,1	14,5	13,9	13,4	12,1	10,5	8,5	6,3	4,1	-
GKN6 300-143B-0510R-R	91	52,5	51		23,7	-	18,9	18,2	17,6	17,1	16,5	15,1	13,3	11,2	8,9	6,5	4,2

Performance

n ≈ 1450 1/min

				Q = Flow																	
				m³/h	0	540	630	720	810	900	990	1080	1170	1260	1440	1620	1800	1980	2160	2340	2520
				l/min		9000	10500	12000	13500	15000	16500	18000	19500	21000	24000	27000	30000	33000	36000	39000	42000
Model	400V	690V	P2	H (m) = Total head																	
	A		kW																		
GKN4 300-143N-0820R	142	82	82		30,8	24	22,9	21,9	20,8	19,8	18,8	17,8	16,8	15,8	13,8	11,7	9,5	7,2	4,5	1,6	-
GKN4 300-143M-0900T	159	90,9	90		32,1	25,2	24,2	23,1	22,1	21	20	18,9	17,9	16,9	14,8	12,7	10,6	8,3	5,8	2,8	-
GKN4 300-143I-1000T	184	105	100		34,4	27,5	26,4	25,4	24,3	23,2	22,1	21	19,9	18,9	16,7	14,5	12,2	9,8	7,4	4,9	2,3
GKN4 300-143G-1200T	223	128	120		37,9	32,9	31,3	29,8	28,5	27,2	25,9	24,8	23,7	22,6	20,5	18,3	16,1	13,6	10,9	8,1	5,2
GKN4 300-143D-1450T	262	150	145		48,3	38,4	37	35,7	34,5	33,3	32,1	30,9	29,7	28,4	25,7	22,8	20	17,2	14,6	12,2	10
GKN4 300-143A-1800T	321	184	180		56,6	46,8	45,4	44,2	43,1	42	40,9	39,7	38,6	37,4	34,8	32	29	25,9	22,6	19,3	15,9
GKN4 300-143Q-0820R-R	142	82	82		30,8	24	22,9	21,9	20,8	19,8	18,8	17,8	16,8	15,8	13,8	11,7	9,5	7,2	4,5	1,6	-
GKN4 300-143P-0900T-R	159	90,9	90		32,1	25,2	24,2	23,1	22,1	21	20	18,9	17,9	16,9	14,8	12,7	10,6	8,3	5,8	2,8	-
GKN4 300-143L-1000T-R	184	105	100		34,4	27,5	26,4	25,4	24,3	23,2	22,1	21	19,9	18,9	16,7	14,5	12,2	9,8	7,4	4,9	2,3
GKN4 300-143H-1200T-R	223	128	120		37,9	32,9	31,3	29,8	28,5	27,2	25,9	24,8	23,7	22,6	20,5	18,3	16,1	13,6	10,9	8,1	5,2
GKN4 300-143E-1450T-R	262	150	145		48,3	38,4	37	35,7	34,5	33,3	32,1	30,9	29,7	28,4	25,7	22,8	20	17,2	14,6	12,2	10
GKN4 300-143B-1800T-R	321	184	180		56,6	46,8	45,4	44,2	43,1	42	40,9	39,7	38,6	37,4	34,8	32	29	25,9	22,6	19,3	15,9

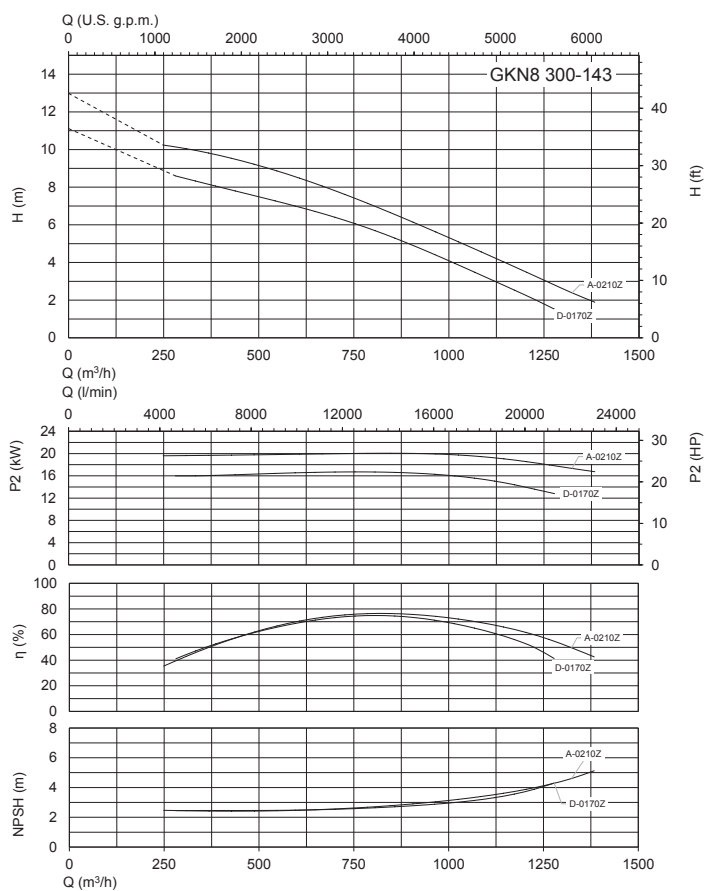
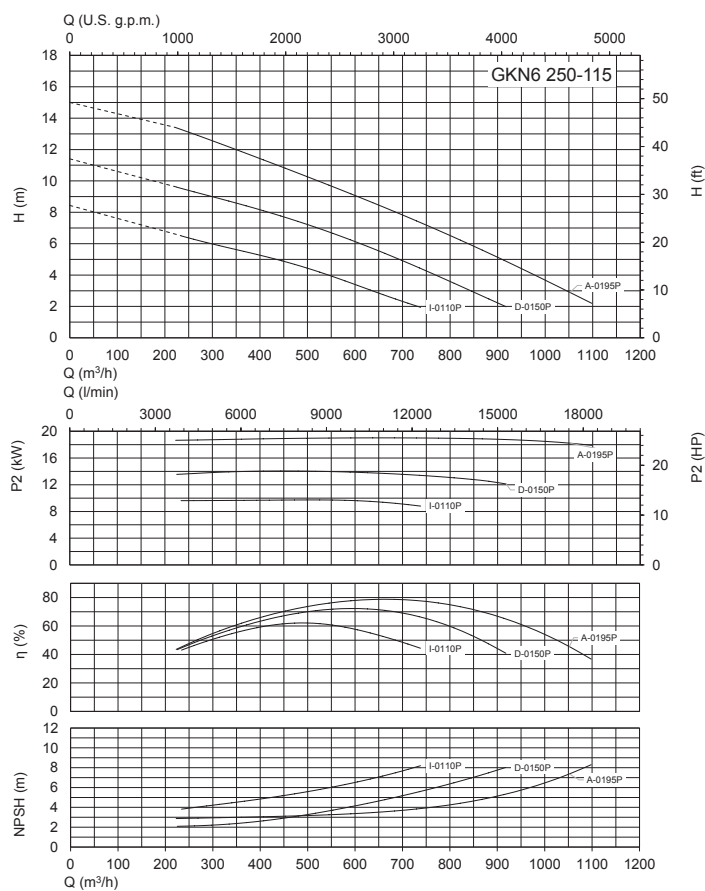
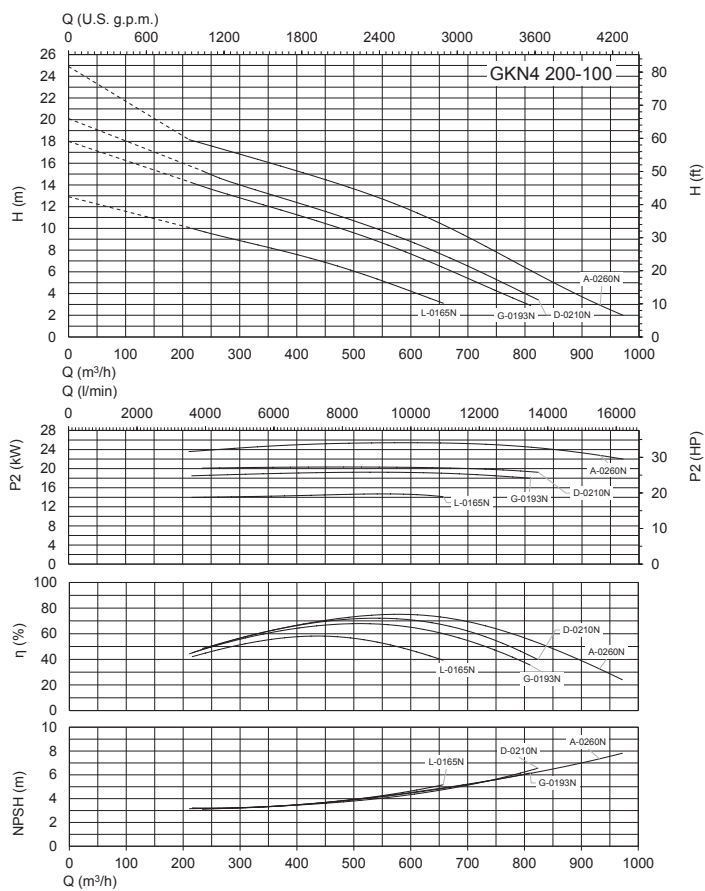
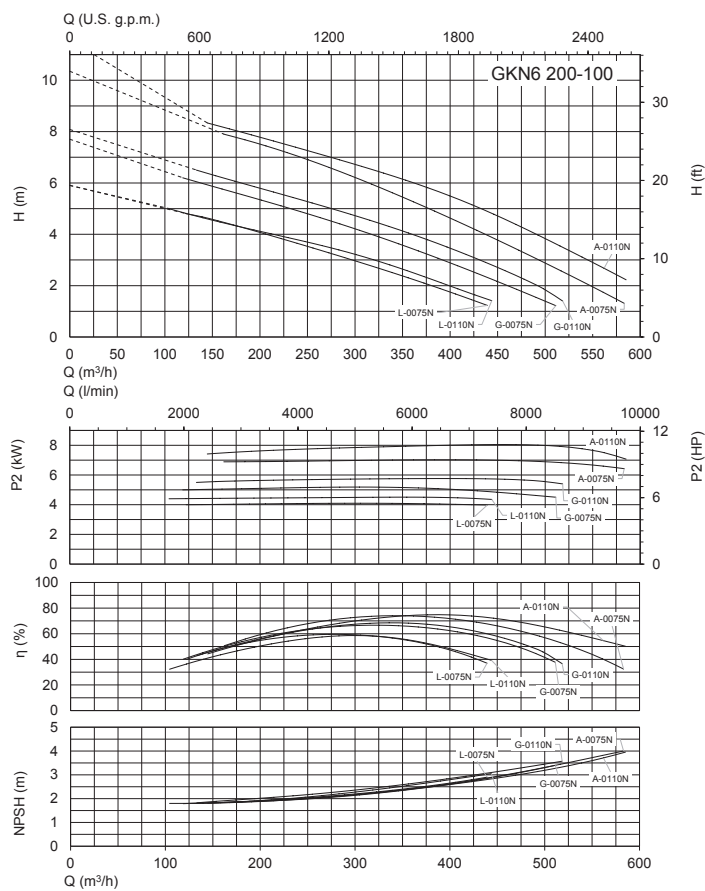
n ≈ 725 1/min

				Q = Flow																
				m³/h	0	252	270	360	450	540	630	720	900	1080	1260	1440	1620	1800	1980	2160
Model	400V	690V	P2	l/min		4200	4500	6000	7500	9000	10500	12000	15000	18000	21000	24000	27000	30000	33000	36000
	A		kW	H (m) = Total head																
GKN8 350-143S-0210R	44,1	25,2	21		8,4	7,2	7,2	7,1	7	6,8	6,5	6,2	5,6	4,8	3,8	2,8	1,8	-	-	-
GKN8 350-143O-0250R	58,5	33,4	25		10,1	-	-	8,7	8,5	8,3	8	7,6	6,8	5,9	4,9	3,8	2,5	-	-	-
GKN8 350-143G-0340R	80,0	45,7	34		13,9	-	-	12	11,5	11,1	10,7	10,3	9,4	8,4	7,3	6,1	4,8	3,4	2	-
GKN8 350-143A-0420R	90,5	51,7	42		16,1	-	-	13,5	13,1	12,8	12,4	12	11,1	10,1	9,1	8	6,7	5,3	3,9	2,4
GKN8 350-143T-0210R-R	44,1	25,2	21		8,4	7,2	7,2	7,1	7	6,8	6,5	6,2	5,6	4,8	3,8	2,8	1,8	-	-	-
GKN8 350-143P-0250R-R	58,5	33,4	25		10,1	-	-	8,7	8,5	8,3	8	7,6	6,8	5,9	4,9	3,8	2,5	-	-	-
GKN8 350-143H-0340R-R	80,0	45,7	34		13,9	-	-	12	11,5	11,1	10,7	10,3	9,4	8,4	7,3	6,1	4,8	3,4	2	-
GKN8 350-143B-0420R-R	90,5	51,7	42		16,1	-	-	13,5	13,1	12,8	12,4	12	11,1	10,1	9,1	8	6,7	5,3	3,9	2,4

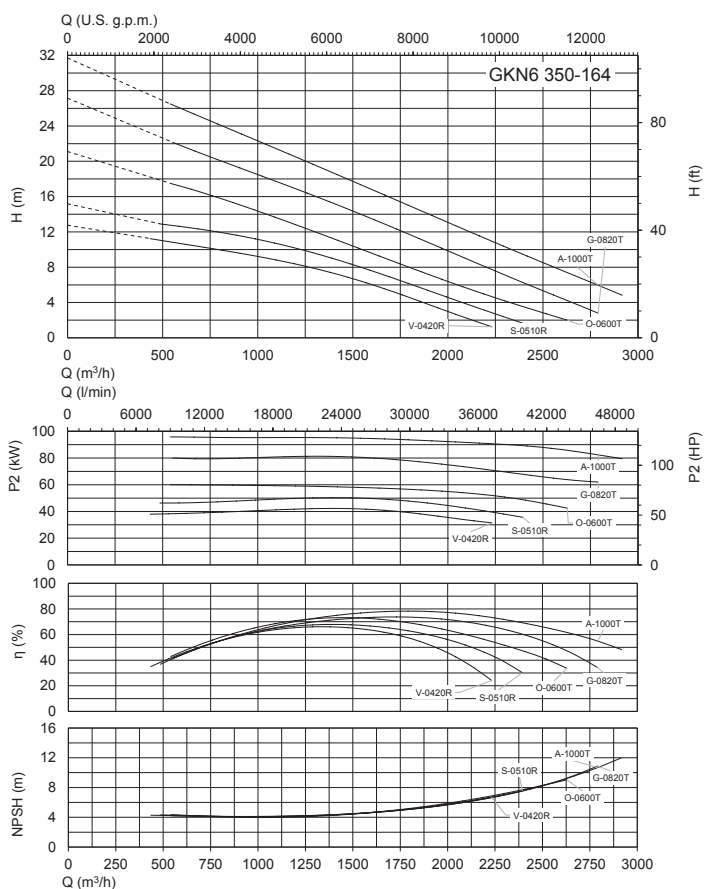
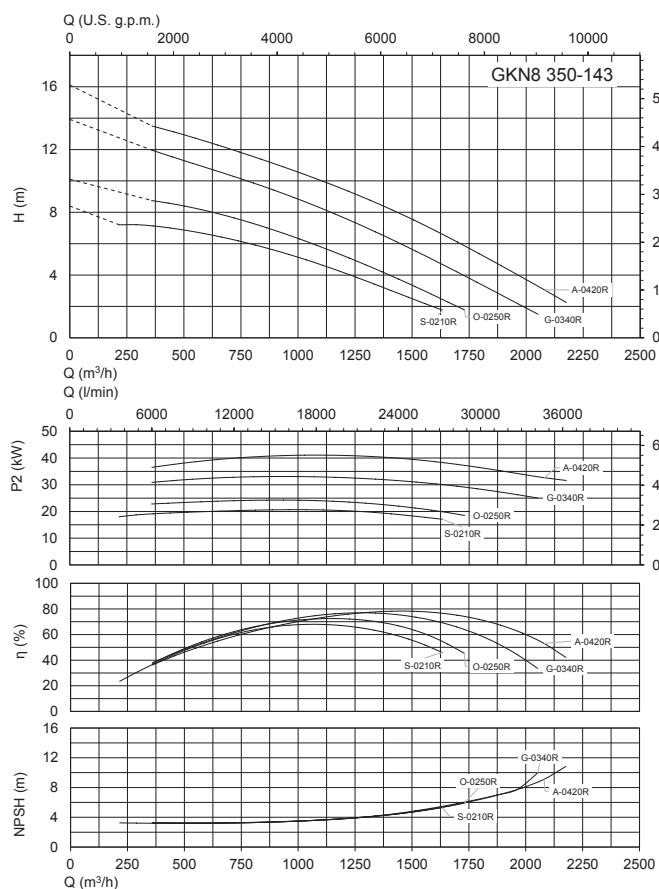
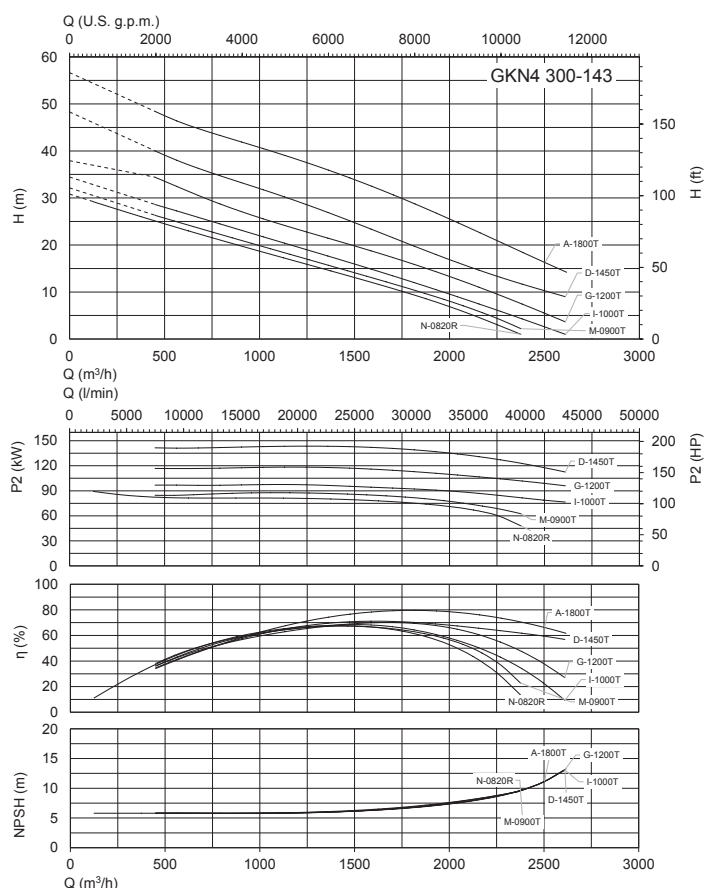
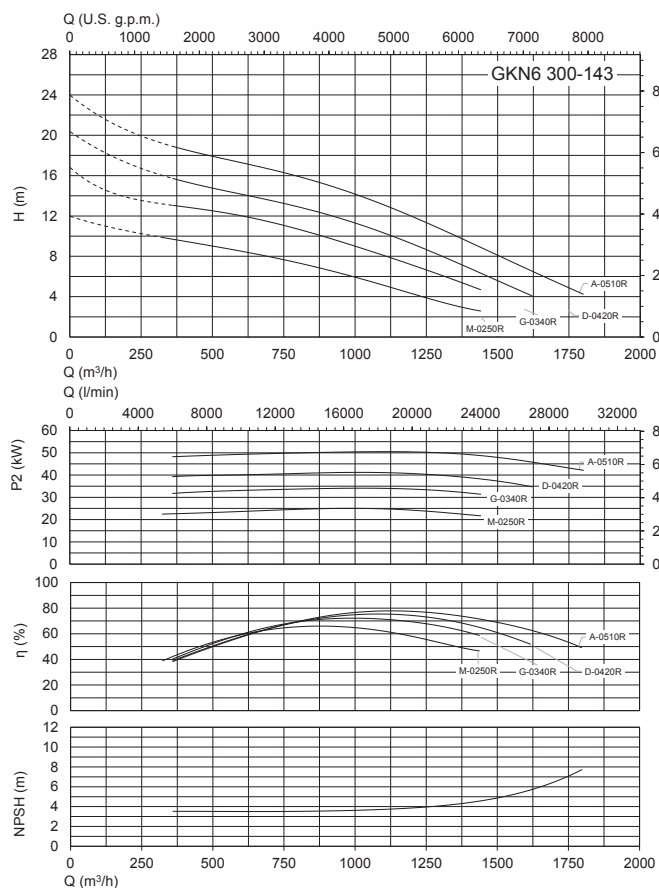
n ≈ 950 1/min

Model				Q = Flow																		
				m³/h	0	720	810	900	990	1080	1170	1260	1440	1620	1800	1980	2160	2340	2520	2700	2880	
				l/min		12000	13500	15000	16500	18000	19500	21000	24000	27000	30000	33000	36000	39000	42000	45000	48000	
400V		690V	P2	H (m) = Total head																		
A		kW																				
GKN6 350-164V-0420R		76,5	44,2	42		12,7	10,2	9,9	9,6	9,3	8,9	8,5	8,1	7,1	5,9	4,6	3,1	1,8	-	-	-	-
GKN6 350-164S-0510R		91	52,5	51		15,2	12,2	11,9	11,6	11,2	10,8	10,3	9,8	8,7	7,4	6,1	4,7	3,4	2	-	-	-
GKN6 350-164W-0420R-R		76,5	44,2	42		12,7	10,2	-	9,5	-	8,8	-	8	7	5,8	4,4	3	1,7	-	-	-	-
GKN6 350-164T-0510R-R		91	52,5	51		15,2	12,3	-	11,6	-	10,8	-	9,9	8,8	7,6	6,3	4,9	3,5	2,2	-	-	-
GKN6 350-164O-0600T		110	62,7	60		21,1	16,4	15,8	15,1	14,4	13,8	13,1	12,3	10,9	9,4	8	6,5	5,2	3,9	2,7	-	-
GKN6 350-164G-0820T		145	82,7	82		27,2	20,7	20	19,3	18,6	17,9	17,1	16,4	14,9	13,3	11,7	10	8,4	6,8	5,2	3,6	-
GKN6 350-164A-1000T		177	101	100		31,7	24,9	24	23,2	22,4	21,6	20,8	19,9	18,3	16,6	14,9	13,3	11,6	10	8,3	6,8	5,2
GKN6 350-164P-0600T-R		110	62,7	60		21,1	16,4	15,8	15,1	14,4	13,8	13,1	12,3	10,9	9,4	8	6,5	5,2	3,9	2,7	-	-
GKN6 350-164H-0820T-R		145	82,7	82		27,2	20,7	20	19,3	18,6	17,9	17,1	16,4	14,9	13,3	11,7	10	8,4	6,8	5,2	3,6	-
GKN6 350-164B-1000T-R		177	101	100		31,7	24,9	24	23,2	22,4	21,6	20,8	19,9	18,3	16,6	14,9	13,3	11,6	10	8,3	6,8	5,2

Characteristic curves



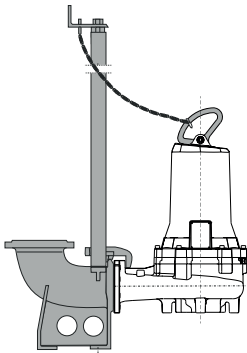
Characteristic curves



Dimensions and weight

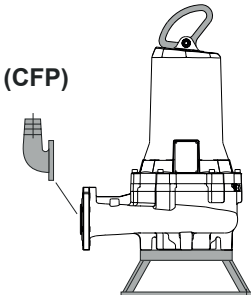
Duck foot coupling

SAK



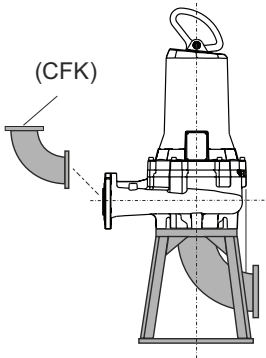
Submersible pump rest

APK



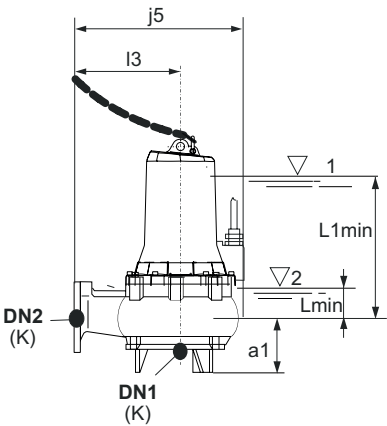
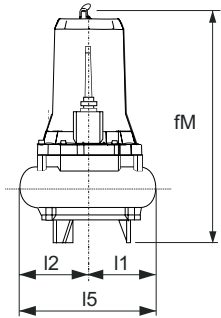
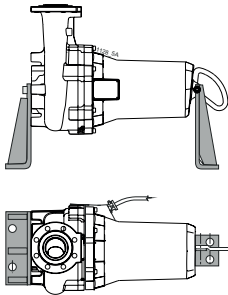
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE			mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	
GKN6 200-100L-0075N	200	200	170	846.9	840	10	240	340	550	580	446	120	235
GKN6 200-100G-0075N	200	200	170	846.9	840	10	240	340	550	580	446	120	235.3
GKN6 200-100A-0075N	200	200	170	846.9	840	10	240	340	550	580	446	120	236.7

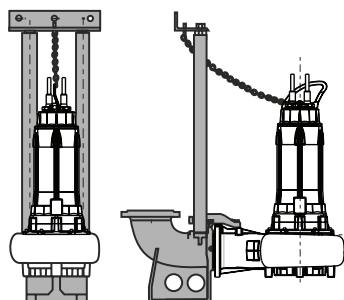
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

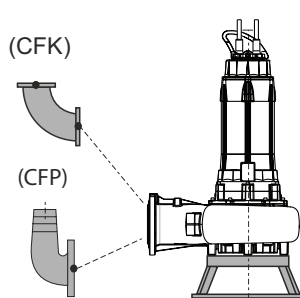
Duck foot coupling

SAK



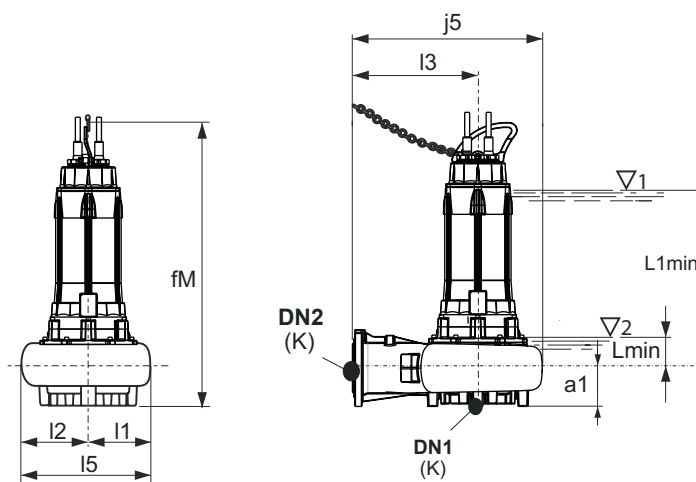
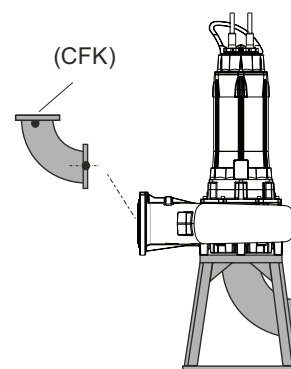
Submersible pump rest

APK



Dry chamber pump rest

APCK



TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	Weight
GKN6 200-100L-0110N	200	200	170	1259	835	16	236	334	550	570	804	183	387.3
GKN6 200-100G-0110N	200	200	170	1259	835	16	236	334	550	570	804	183	388
GKN6 200-100A-0110N	200	200	170	1259	835	16	236	334	550	570	804	183	389.7

TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	Weight
GKN4 200-100L-0165N	200	200	170	1259	835	16	236	334	550	570	804	183	374.1
GKN4 200-100G-0193N	200	200	170	1259	835	16	236	334	550	570	804	183	396.6
GKN4 200-100D-0210N	200	200	170	1259	835	16	236	334	550	570	804	183	421.2
GKN4 200-100A-0260N	200	200	170	1259	835	16	236	334	550	570	804	183	404.9

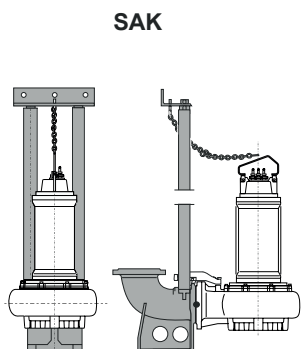
TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	Weight
GKN6 250-115I-0110P	250	250	200	1305	843	10	282	404	500	686	820	199	412.8
GKN6 250-115D-0150P	250	250	200	1305	843	10	282	404	500	686	820	199	477.8
GKN6 250-115A-0195P	250	250	200	1305	843	10	282	404	500	686	820	199	524.3

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

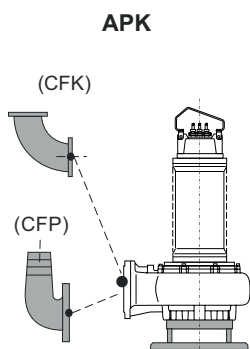
Dimensions and weight

Duck foot coupling



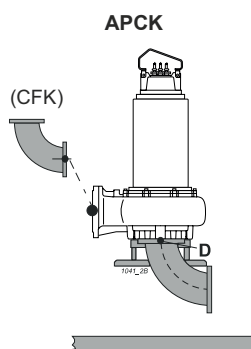
SAK

Submersible pump rest



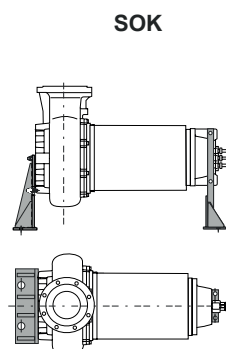
APK

Dry chamber pump rest

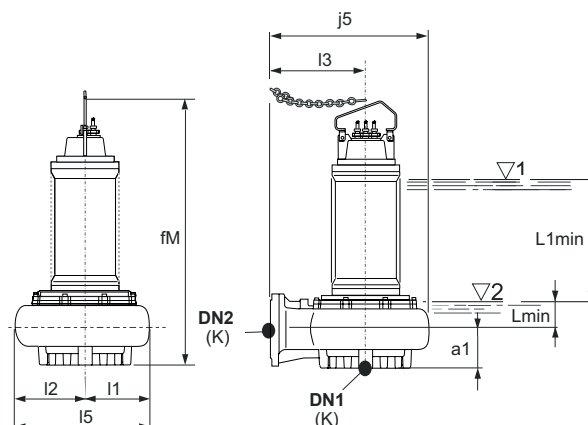


APCK

Dry chamber pump support



SOK



TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	I1	I2	I5	I5	L1min	Lmin	Weight
GKN8 300-143D-0170Z	300	300	230	1599.5	1030	10	340	480	620	820	910	165	656
GKN8 300-143A-0210Z	300	300	230	1599.5	1030	10	340	480	620	820	910	165	676
GKN8 300-143E-0170Z-R	300	300	230	1599.5	1030	10	340	480	620	820	910	165	761
GKN8 300-143B-0210Z-R	300	300	230	1599.5	1030	10	340	480	620	820	910	165	691

TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	I1	I2	I5	I5	L1min	Lmin	Weight
GKN4 300-143N-0820R	300	300	230	1653.5	1030	10	340	480	620	820	1000	155	-
GKN4 300-143M-0900T	300	300	230	1653.5	1030	10	340	480	620	820	1000	155	1121
GKN4 300-143I-1000T	300	300	230	1867	1030	10	340	480	620	820	1140	155	1378
GKN4 300-143G-1200T	300	300	230	1867	1030	10	340	480	620	820	1140	155	1438
GKN4 300-143D-1450T	300	300	230	1867	1030	10	340	480	620	820	1140	155	1490
GKN4 300-143A-1800T	300	300	230	2103	1030	10	340	480	620	820	1315	155	1893
GKN4 300-143Q-0820R-R	300	300	230	1653.5	1030	10	340	480	620	820	1000	155	-
GKN4 300-143P-0900T-R	300	300	230	1653.5	1030	10	340	480	620	820	1000	155	1141
GKN4 300-143L-1000T-R	300	300	230	1867	1030	10	340	480	620	820	1140	155	1611
GKN4 300-143H-1200T-R	300	300	230	1867	1030	10	340	480	620	820	1140	155	1672
GKN4 300-143E-1450T-R	300	300	230	1867	1030	10	340	480	620	820	1140	155	1724
GKN4 300-143B-1800T-R	300	300	230	2103	1030	10	340	480	620	820	1315	155	2220

TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	I1	I2	I5	I5	L1min	Lmin	Weight
GKN6 300-143M-0250R	300	300	230	1609	1030	10	340	480	620	820	953	187	656
GKN6 300-143G-0340R	300	300	230	1609	1030	10	340	480	620	820	953	187	676
GKN6 300-143D-0420R	300	300	230	1663	1030	10	340	480	620	820	1007	187	788
GKN6 300-143A-0510R	300	300	230	1696	1030	10	340	480	620	820	1040	187	1026
GKN6 300-143N-0250R-R	300	300	230	1609	1030	10	340	480	620	820	953	187	671
GKN6 300-143H-0340R-R	300	300	230	1609	1030	10	340	480	620	820	953	187	696
GKN6 300-143E-0420R-R	300	300	230	1663	1030	10	340	480	620	820	1007	187	804
GKN6 300-143B-0510R-R	300	300	230	1696	1030	10	340	480	620	820	1040	187	1046

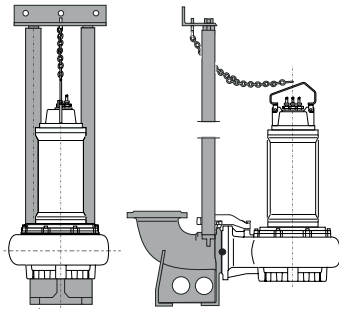
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

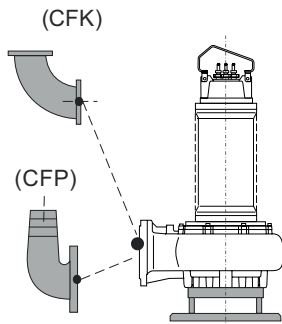
Duck foot coupling

SAK



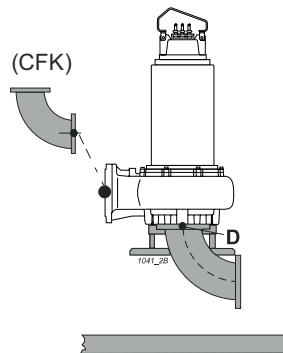
Submersible pump rest

APK



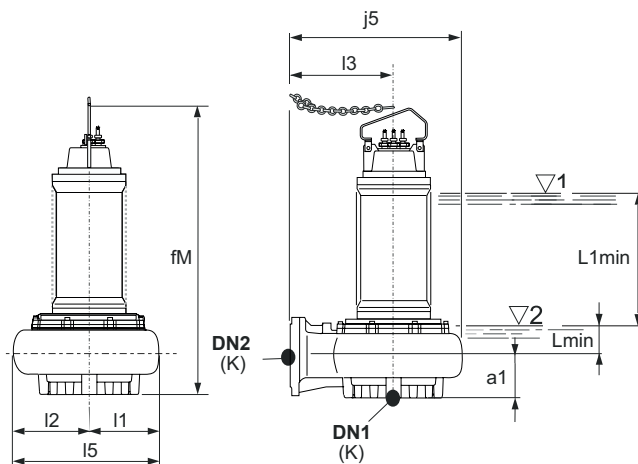
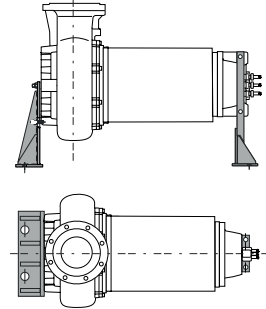
Dry chamber pump rest

APCK



Dry chamber pump support

SOK

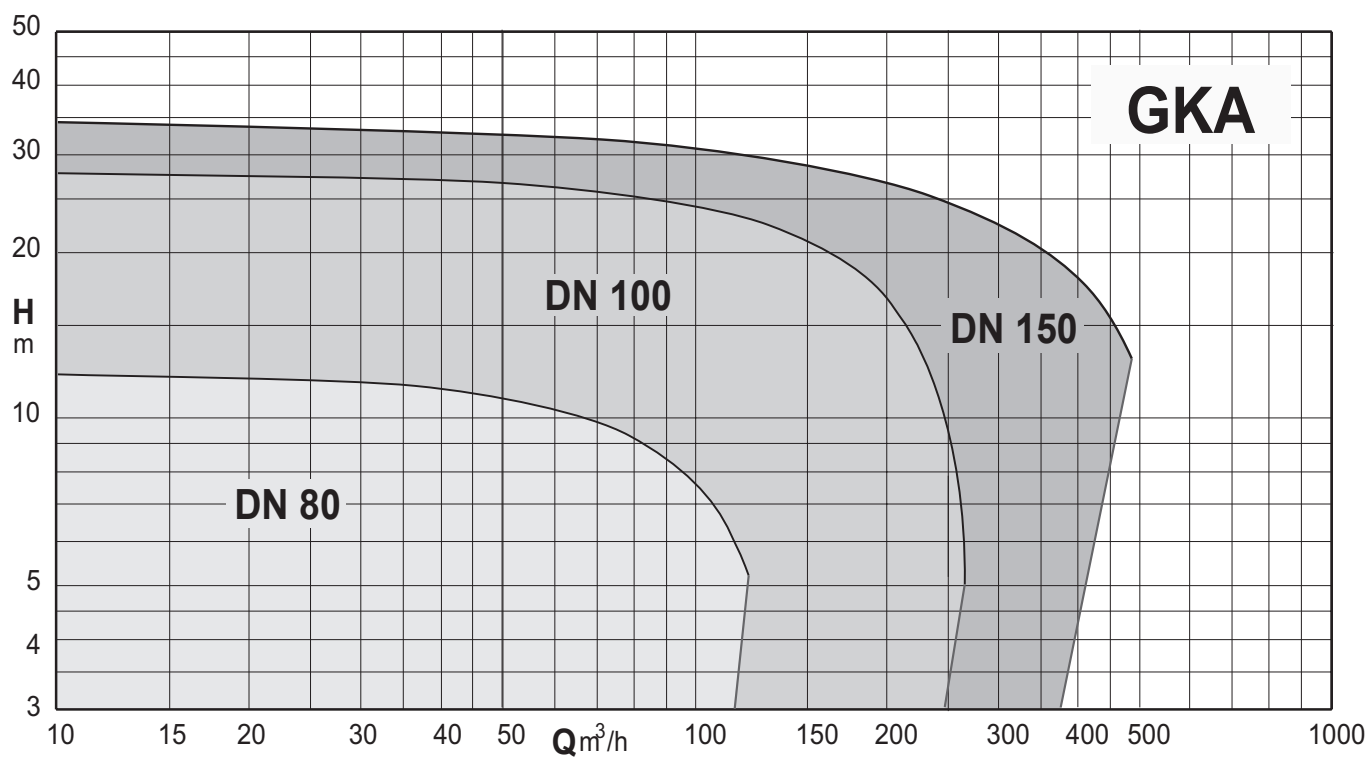
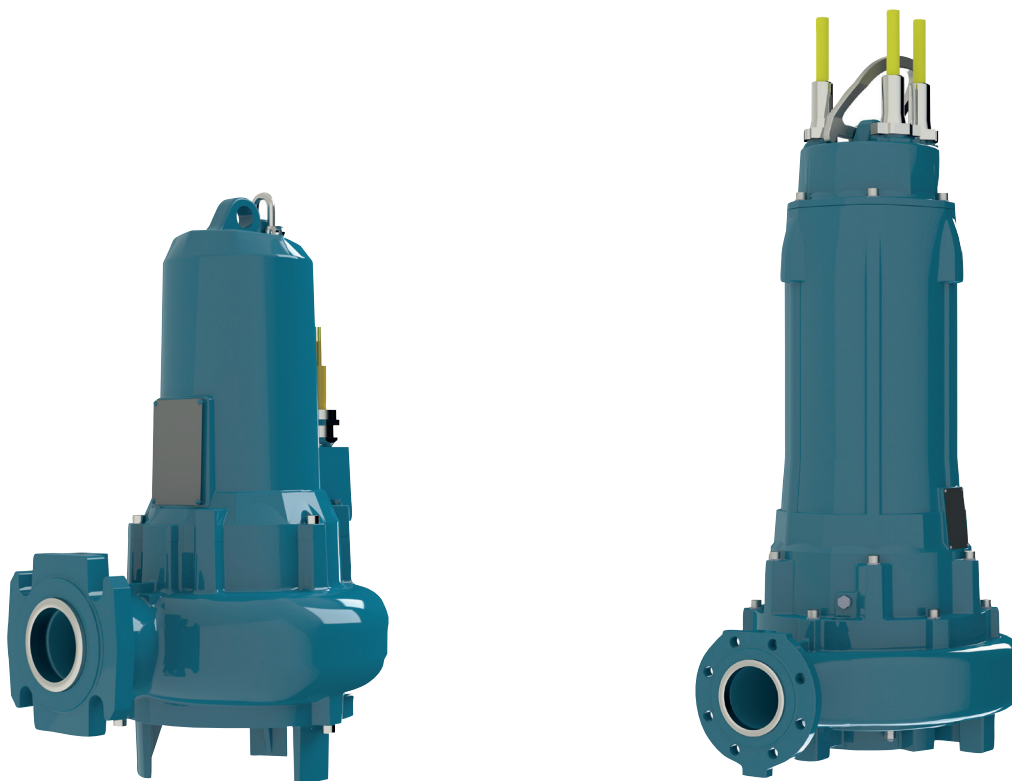


TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	I1	I2	I5	I5	L1min	Lmin	Weight
GKN8 350-143S-0210R	350	350	268	1640.5	1170	10	385	550	700	935	997	192	785
GKN8 350-143O-0250R	350	350	268	1662.5	1170	10	385	550	700	935	912	167	970
GKN8 350-143G-0340R	350	350	268	1662.5	1170	10	385	550	700	935	912	167	1070
GKN8 350-143A-0420R	350	350	268	1672.5	1170	10	385	550	700	935	1002	192	1155
GKN8 350-143T-0210R-R	350	350	268	1640.5	1170	10	385	550	700	935	997	192	805
GKN8 350-143P-0250R-R	350	350	268	1662.5	1170	10	385	550	700	935	912	167	990
GKN8 350-143H-0340R-R	350	350	268	1662.5	1170	10	385	550	700	935	912	167	1025
GKN8 350-143B-0420R-R	350	350	268	1672.5	1170	10	385	550	700	935	1002	192	1175

TYPE			mm										Kg
	DN1	DN2	a1	fM	j5	K	I1	I2	I5	I5	L1min	Lmin	Weight
GKN6 350-164V-0420R	350	350	268	1704	1170	10	385	550	700	935	1010	190	865
GKN6 350-164S-0510R	350	350	268	1737	1170	10	385	550	700	935	1043	190	1198
GKN6 350-164W-0420R-R	350	350	268	1704	1170	10	385	550	700	935	1010	190	880
GKN6 350-164T-0510R-R	350	350	268	1737	1170	10	385	550	700	935	1043	190	1219
GKN6 350-164O-0600T	350	350	268	1908	1170	10	385	550	700	935	1177	192	1409
GKN6 350-164G-0820T	350	350	268	1908	1170	10	385	550	700	935	1177	192	1482
GKN6 350-164A-1000T	350	350	268	1908	1170	10	385	550	700	935	1177	192	1544
GKN6 350-164P-0600T-R	350	350	268	1908	1170	10	385	550	700	935	1177	192	1642
GKN6 350-164H-0820T-R	350	350	268	1908	1170	10	385	550	700	935	1177	192	1715
GKN6 350-164B-1000T-R	350	350	268	1908	1170	10	385	550	700	935	1177	192	1778

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)



Submersible pumps with open twin blade impeller



Construction

Submersible pumps with open twin blade impeller
It offers reliability against clogging and features a good resistance to wear, low mechanical action on the fluid, high hydraulic efficiency.
Low vibrations thanks to the dynamically balanced impeller.
Delivery port DN 80-100-150.

Applications

Particularly suitable for clean water, water containing solid and fibrous solids, cloacal water, sewage and sludge.
Particularly suitable for the emptying of sewage from cesspits or primary collection tanks or industrial waste water.
Solid passage from 34 to 60 mm

Operating conditions

Liquid temperature: from 0°C to +40°C.
Maximum immersion depth: 20m (with cable of suitable length).
Maximum working pressure: 35 m.w.c.
pH of the liquid to be lifted: 4 ÷ 10
Continuous service (with water at minimum immersion level).

Materials

Pump casing: cast iron EN-GJL250 UNI-EN 1561-11
Impeller: cast iron EN-GJL250 UNI-EN 1561-11
Motor casing: cast iron EN-GJL250 UNI-EN 1561-11 / EN-GJL450 UNI-EN 1561-11
Shaft: stainless steel X20Cr13 (AISI420)
Pump mechanical seal with flange size H - L - N
- motor side: graphite/ceramic
- pump side: silicon/ceramic carbide

Motor

4 poles induction, 50Hz
Three-phase version: 400V ± 10%, up to 4.8kW
400/690V ± 10% from 5.8kW

Isolation class: H
Degree of protection: IP 68
Max number of starts per hour:
- 20 up to 5 kW
- 15 up to 10 kW
- 10 for higher powers

Cable: length 10m
Direction of rotation: clockwise top view
Motor suitable for operation with frequency converter.

Special features on request

(Check feasibility according to the model with our Technical Sales Office)
Impeller in stainless steel AISI 316 or bronze.
Cable length up to 40 m
Other mechanical seal.
Higher or lower liquid or ambient temperatures.
Ceramic coating.
Internal anti-erosion coating, external anti-corrosion.

Designation

GKA4 100-38A-0125L
GK = Series
A = open twin blade impeller
4 = Number of poles
100 = Delivery port diameter in mm
80 = Free passage in mm
A = Impeller trim
0125 = Motor size kW x 10
L = Size of electric motor flange

Technical data

TYPE	Dry chamber version		Probes		Cable	Class	Duck foot coupling	Submersible pump rest	Dry chamber pump rest	Dry chamber pump support
	Vertical	Horizontal	thermal	conductivity	NSSHOU-J	Isolation				
GKA4 80-34L-0016H	#	#	•	•	•	H / IE3	SAK 80-80-2A	APK 80	APCK 80	SOK80/N3
GKA4 80-34G-0016H	#	#	•	•	•	H / IE3	SAK 80-80-2A	APK 80	APCK 80	SOK80/N3
GKA4 80-34D-0021H	#	#	•	•	•	H / IE3	SAK 80-80-2A	APK 80	APCK 80	SOK80/N3
GKA4 80-34A-0029H	#	#	•	•	•	H / IE3	SAK 80-80-2A	APK 80	APCK 80	SOK80/N3
GKA4 100-38L-0075L	#	#	•	•	•	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKA4100-38G-0105L	#	#	•	•	•	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKA4 100-38D-0125L	#	#	•	•	•	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKA4 100-38A-0125L	#	#	•	•	•	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKA4 100-41L-0029H	#	#	•	•	•	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKA4 100-41G-0037H	#	#	•	•	•	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKA4 100-41D-0046H	#	#	•	•	•	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKA4 100-41A-0058H	#	#	•	•	•	H / IE3	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKA4 100-45L-0165N	#	-	•	•	•	H / IE3	SAK 100-100-2	APK 150	APCK 150A	-
GKA4 100-45G-0193N	#	-	•	•	•	H / IE3	SAK 100-100-2	APK 150	APCK 150A	-
GKA4 100-45D-0210N	#	-	•	•	•	H / IE3	SAK 100-100-2	APK 150	APCK 150A	-
GKA4 100-45A-0260N	#	-	•	•	•	H / IE3	SAK 100-100-2	APK 150	APCK 150A	-
GKA4 150-51P-0021H	#	#	•	•	•	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKA4 150-51L-0029H	#	#	•	•	•	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKA4 150-51G-0037H	#	#	•	•	•	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKA4 150-51D-0046H	#	#	•	•	•	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKA4 150-51A-0058H	#	#	•	•	•	H / IE3	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKA4 150-60L-0165N	#	-	•	•	•	H / IE3	SAK 150-200-3	APK 150	APCK 150A	-
GKA4 150-60G-0193N	#	-	•	•	•	H / IE3	SAK 150-200-3	APK 150	APCK 150A	-
GKA4 150-60D-0210N	#	-	•	•	•	H / IE3	SAK 150-200-3	APK 150	APCK 150A	-
GKA4 150-60A-0260N	#	-	•	•	•	H / IE3	SAK 150-200-3	APK 150	APCK 150A	-

• = Standard
- = Not present

o = Optional

= Version with oil chamber
\$ = Version with cooling jacket

= In case of operation in a dry chamber or with a low level of the pumped liquid, it is necessary to introduce the cooling oil according to the quantities indicated in the use and maintenance manual

Performance

n ≈ 1450 1/min

			Q = Flow														
			m³/h	0	21,5	25,2	28,8	32,4	36	45	54	63	72	81	90	99	108
Model	400V	P2	l/min	0	358	420	480	540	600	750	900	1050	1200	1350	1500	1650	1800
	A	kW	H (m) = Total head														
GKA4 80-34L-0016H	3,4	1.6		10	8,2	7,8	7,5	7,2	6,9	6,2	5,5	4,8	3,9	-	-	-	-
GKA4 80-34G-0016H	3,4	1.6		11,8	9,9	9,6	9,3	9	8,7	8	7,3	6,6	5,8	5	4,2	-	-
GKA4 80-34D-0021H	5	2.1		13	-	-	10,5	10,2	9,9	9,1	8,3	7,6	6,9	6,1	5,3	4,4	-
GKA4 80-34A-0029H	6,1	2.9		15	-	-	-	-	11,8	11,2	10,5	9,8	9	8,3	7,4	6,5	5,6

					Q = Flow												
					m³/h	0	14,4	18	36	54	72	90	108	126	144	162	180
Model	400V	690V	P2		l/min	0	240	300	600	900	1200	1500	1800	2100	2400	2700	3000
	A		kW	HP	H (m) = Total head												
GKA4 100-38L-0075L	15,3	8,8	7,5	10		21,7	20,9	20,7	19,7	18,7	17,5	16,3	15	13,6	12,1	10,5	8,6
GKA4100-38G-0105L	20	11,5	10,5	-		25	23,9	23,6	22,4	21,3	20,2	19,1	17,9	16,6	15,3	13,7	11,9
GKA4 100-38D-0125L	24	13,9	12,5	17		28,4	27,3	27	25,6	24,3	23,1	21,9	20,7	19,5	18,1	16,6	14,9
GKA4 100-38A-0125L	24	13,9	12,5	17		30,9	29,6	29,3	27,9	26,7	25,4	24,2	22,9	21,6	20,2	18,9	17,4

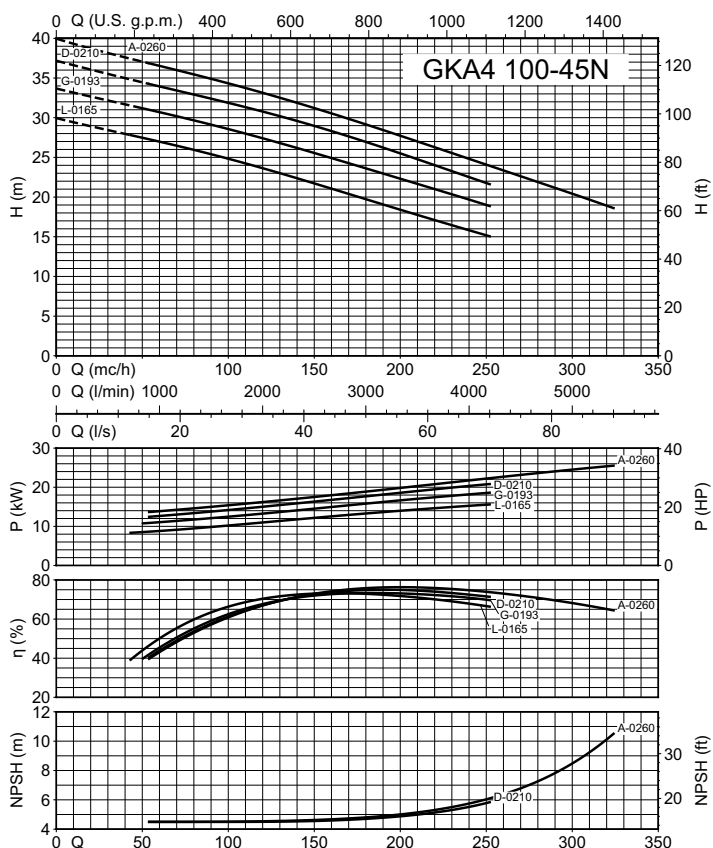
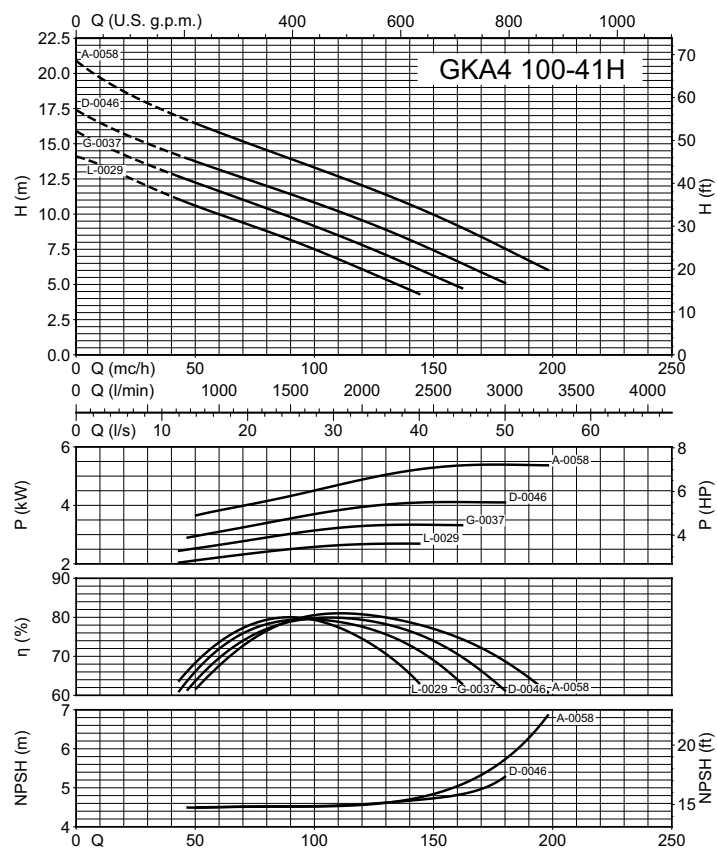
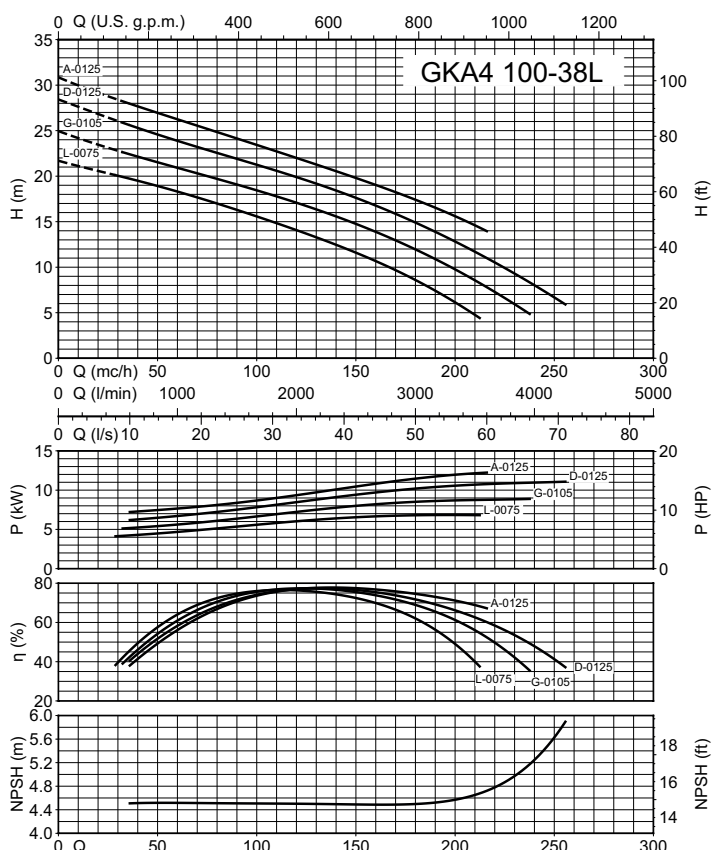
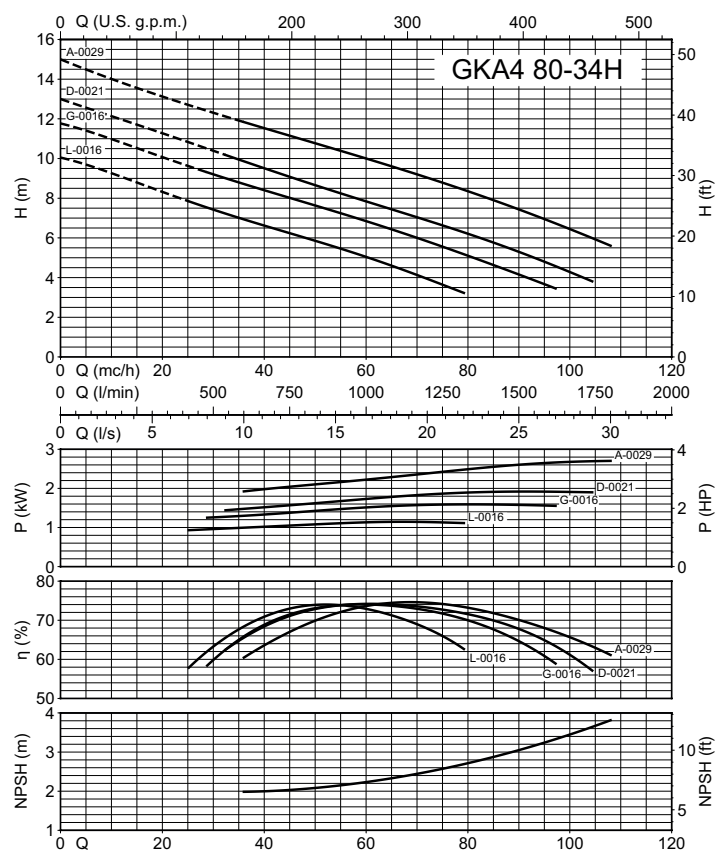
					Q = Flow									
					m³/h	0	54	72	90	108	126	144	162	180
Model	400V	690V	P2		l/min	0	900	1200	1500	1800	2100	2400	2700	3000
	A		kW		H (m) = Total head									
GKA4 100-41L-0029H	6,1	-	-	2.9		14,1	10,4	9,3	8,2	6,9	5,7	4,3	-	-
GKA4 100-41G-0037H	7,7	-	-	3.7		15,9	12	10,9	9,8	8,6	7,4	6,1	4,7	-
GKA4 100-41D-0046H	9,5	-	-	4.6		17,4	13,5	12,5	11,4	10,3	9,2	7,9	6,5	5,1
GKA4 100-41A-0058H	-	11,9	6,9	5.8		20,9	16,2	15,1	13,9	12,8	11,7	10,4	9	7,5

					Q = Flow												
					m³/h	0	18	36	54	72	90	108	126	144	162	180	216
Model	400V	690V	P2		l/min	0	300	600	900	1200	1500	1800	2100	2400	2700	3000	3600
	A		kW		H (m) = Total head												
GKA4 100-45L-0165N	31,2	18	16,5		30	29	28,1	27,3	26,4	25,4	24,4	23,3	22,1	20,9	19,7	17,4	15,1
GKA4 100-45G-0193N	38,8	22,4	19,3		33,7	32,8	31,9	31	30,1	29,1	28,1	27	25,9	24,8	23,6	21,3	18,9
GKA4 100-45D-0210N	39	22,5	21		37,2	36,2	35,2	34,2	33,3	32,4	31,4	30,4	29,3	28,2	26,9	24,3	21,6
GKA4 100-45A-0260N	47,2	27,3	26		40	38,8	37,8	36,8	35,9	34,9	33,9	32,8	31,6	30,4	29,1	26,6	23,9

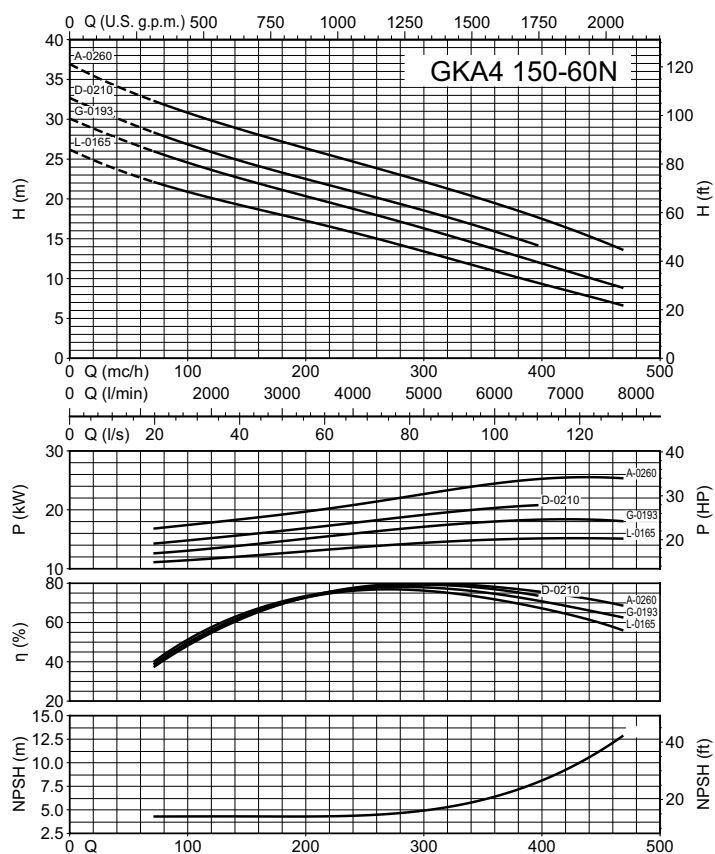
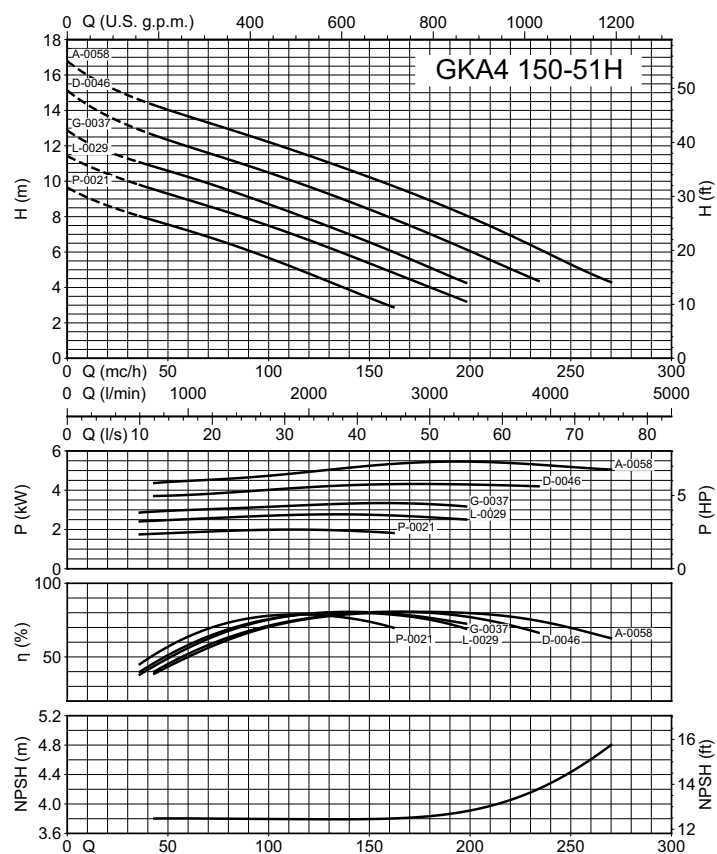
					Q = Flow												
					m³/h	0	28,8	36	54	72	90	108	126	144	162	180	216
Model	400V	690V	P2		l/min	0	480	600	900	1200	1500	1800	2100	2400	2700	3000	3600
	A		kW		H (m) = Total head												
GKA4 150-51P-0021H	5	-	-	2.1		9,6	8,3	8	7,4	6,8	6,1	5,3	4,5	3,7	2,9	-	-
GKA4 150-51L-0029H	6,1	-	-	2.9		11,4	-	9,8	9,2	8,5	7,9	7,2	6,4	5,6	4,8	4	-
GKA4 150-51G-0037H	7,7	-	-	3.7		12,9	-	11,1	10,5	9,8	9,1	8,4	7,6	6,8	6	5,1	-
GKA4 150-51D-0046H	9,5	-	-	4.6		15,1	-	-	12,2	11,5	10,9	10,2	9,4	8,7	7,9	7	5,3
GKA4 150-51A-0058H	-	11,9	6,9	5.8		16,8	-	-	13,9	13,3	12,6	11,9	11,2	10,5	9,7	8,9	7,1

					Q = Flow															
					m³/h	0	25,2	36	54	72	90	108	126	144	162	180	216	252	288	324
Model	400V	690V	P2		l/min	0	420	600	900	1200	1500	1800	2100	2400	2700	3000	3600	4200	4800	5400
	A		kW	HP	H (m) = Total head															
GKA4 150-60L-0165N	31,2	18	16,5	-		26,2	24,6	24	23	22,1	21,3	20,6	19,9	19,2	18,6	18	16,7	15,3	13,9	12,4
GKA4 150-60G-0193N	38,8	22,4	19,3	-		30,1	28,5	27,9	26,9	25,9	25,1	24,2	23,4	22,6	21,9	21,1	19,7	18,3	16,8	15,3
GKA4 150-60D-0210N	39	22,5	21	-		32,7	31	30,4	29,3	28,3	27,4	26,5	25,6	24,8	24	23,3	21,9	20,5	19	17,5
GKA4 150-60A-0260N	47,2	27,3	26	35		36,9	35,1	34,4	33,3	32,3	31,3	30,4	29,6	28,8	28	27,2	25,7	24,2	22,7	21,1

Characteristic curves



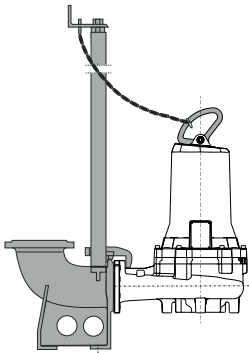
Characteristic curves



Dimensions and weight

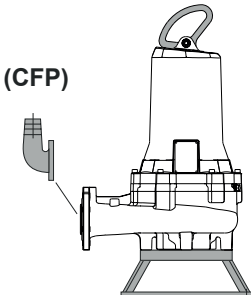
Duck foot coupling

SAK



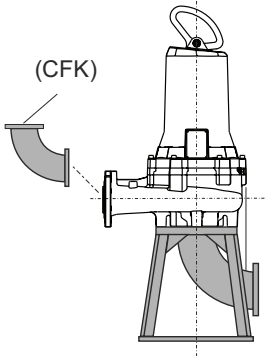
Submersible pump rest

APK



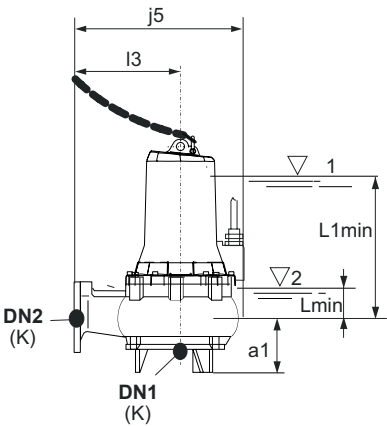
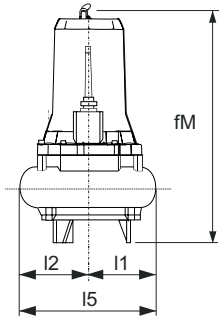
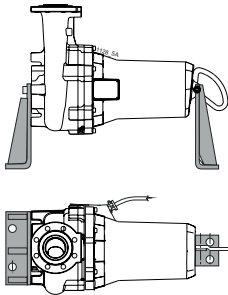
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



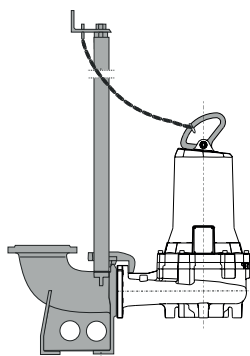
TYPE			mm									
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin
GKA4 80-34L-0016H	80	80	98	619	416	16	204.5	190.5	245	395	288	66
GKA4 80-34G-0016H	80	80	98	619	416	16	204.5	190.5	245	395	288	66
GKA4 80-34D-0021H	80	80	98	619	416	16	204.5	190.5	245	395	355	65
GKA4 80-34A-0029H	80	80	98	619	416	16	204.5	190.5	245	395	288	66

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

Duck foot coupling

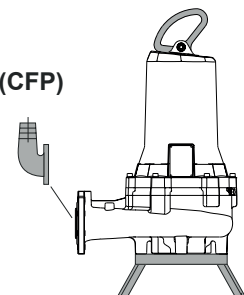
SAK



Submersible pump rest

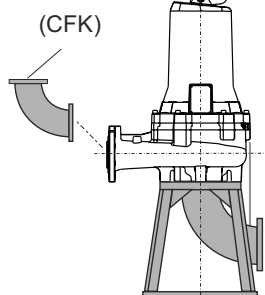
APK

(CFP)



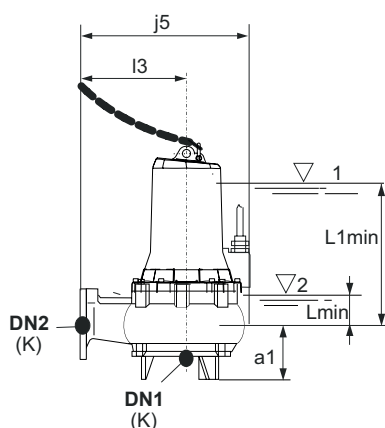
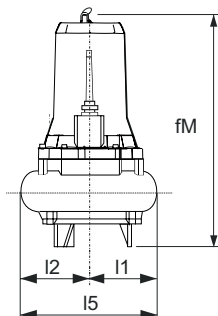
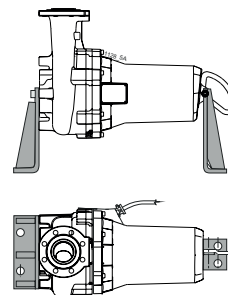
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE			mm									
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin
GKA4 100-38L-0075L	100	100	113.2	743.6	530	16	236.5	228	320	464.5	420.4	69.4
GKA4100-38G-0105L	100	100	113.2	766	530	16	236.5	228	320	464.5	420.4	69.4
GKA4 100-38D-0125L	100	100	113.2	766	530	16	236.5	228	320	464.5	420.4	69.4
GKA4 100-38A-0125L	100	100	113.2	766	530	16	236.5	228	320	464.5	420.4	69.4
GKA4 100-41L-0029H	100	100	116	639	492	16	204.5	213.3	300	402.5	289	69
GKA4 100-41G-0037H	100	100	116	710	492	16	221	213.3	300	419	324	69
GKA4 100-41D-0046H	100	100	116	710	492	16	221	213.3	300	419	324	69
GKA4 100-41A-0058H	100	100	116	710	492	16	221	213.3	300	434.3	324	69
GKA4 150-51P-0021H	150	150	132	663	570	16	224.2	241.2	344	465.4	387.5	167.5
GKA4 150-51L-0029H	150	150	132	663	570	16	224.2	241.2	344	465.4	297.5	77.5
GKA4 150-51G-0037H	150	150	132	734	570	16	224.2	241.2	344	465.4	332.5	77.5
GKA4 150-51D-0046H	150	150	132	734	570	16	224.2	241.2	344	465.4	332.5	77.5
GKA4 150-51A-0058H	150	150	132	734	570	16	224.2	241.2	344	465.4	332.5	77.5

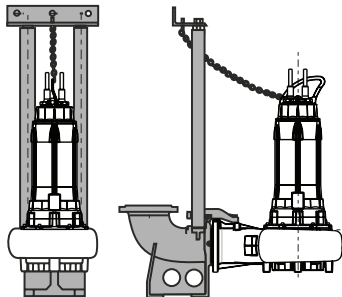
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

Dimensions and weight

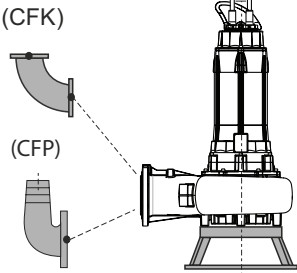
Duck foot coupling

SAK



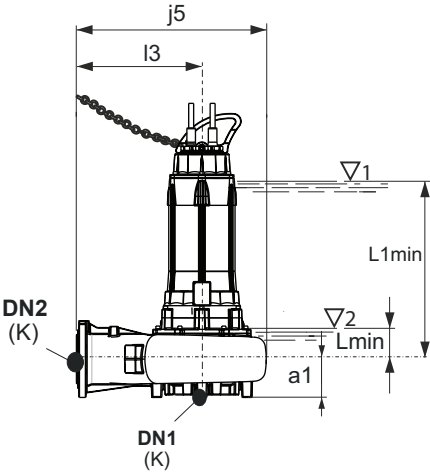
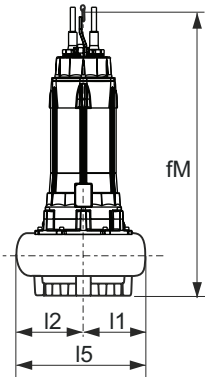
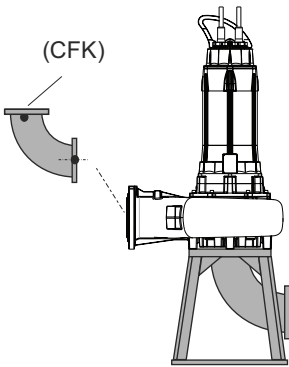
Submersible pump rest

APK



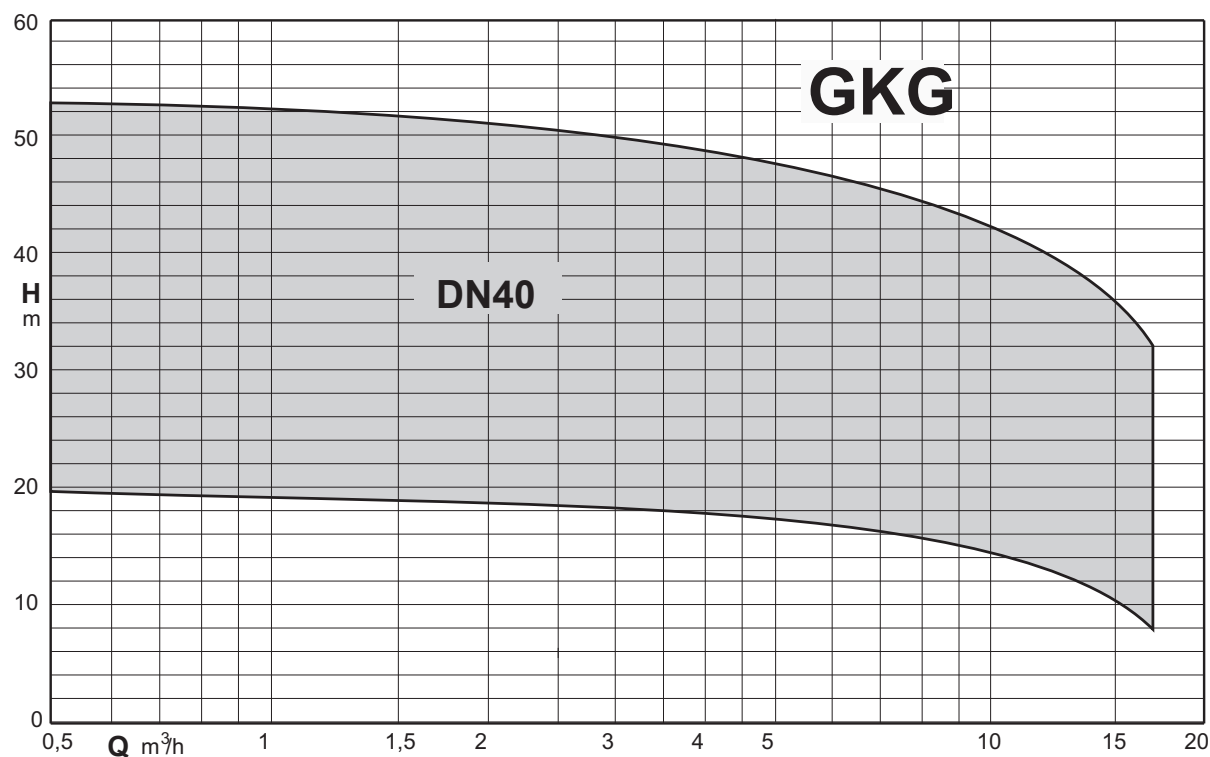
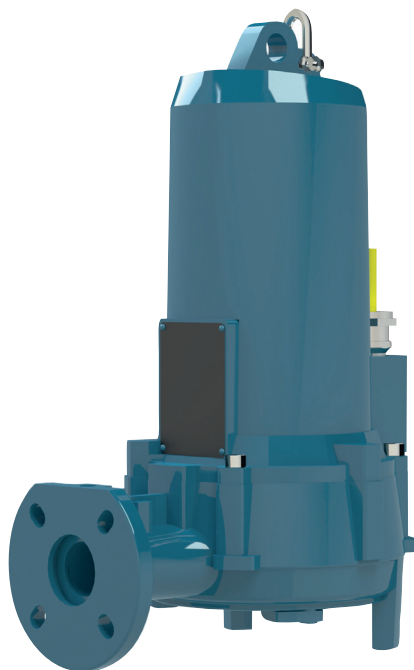
Dry chamber pump rest

APCK



TYPE			mm									
	DN1	DN2	a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin
GKA4 100-45L-0165N	150	100	122.8	1184.2	621.3	16	226.8	259.2	380	486	776.4	155.4
GKA4 100-45G-0193N	150	100	122.8	1184.2	621.3	16	226.8	259.2	380	486	776.4	155.4
GKA4 100-45D-0210N	150	100	122.8	1184.2	621.3	16	226.8	259.2	380	486	776.4	155.4
GKA4 100-45A-0260N	150	100	122.8	1184.2	621.3	16	226.8	259.2	380	486	776.4	155.4
GKA4 150-60L-0165N	150	150	138	1208.5	662.3	16	228.8	286.2	405	515	785.5	164.5
GKA4 150-60G-0193N	150	150	138	1208.5	662.3	16	228.8	286.2	405	515	785.5	164.5
GKA4 150-60D-0210N	150	150	138	1208.5	662.3	16	228.8	286.2	405	515	785.5	164.5
GKA4 150-60A-0260N	150	150	138	1208.5	662.3	16	228.8	286.2	405	515	785.5	164.5

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)



Submersible pumps
with high power grinder

Construction

Submersible pumps with high cutting power shredder system.
Made of very hard stainless steel, the shape of the shredder ensures long-life and fade-free shredding capacity.
No particular tools are required to replace this part.
Delivery port DN 40.

Applications

To move water containing long filamentary materials, paper or te tile material.
They are particularly suitable for the disposal of waste water in domestic, residential and industrial use.
Solid passage 4 mm.

Operating conditions

Liquid temperature up to 40°C.
Maximum immersion depth: 20m (with cable of suitable length).
Maximum working pressure: 80 m.w.c.
pH of the liquid to be lifted: 6 ÷ 10
Continuous service (with water at minimum immersion level).

Materials

Pump casing: cast iron EN-GJL250 UNI-EN 1561-11
Impeller: cast iron EN-GJL250 UNI-EN 1561-11
Motor casing: cast iron EN-GJL250 UNI-EN 1561-11
Shaft: stainless steel X20Cr13 (AISI420)
Motor side mechanical seal: graphite/ceramic
Pump side mechanical seal: silicon carbide/ceramic

Motor

Induction motor 2.4 poles, 50Hz
Three-phase version: 400V ± 10% up to 4.8 kW
400/690V ± 10% from 5.8 kW
Isolation class: H
Degree of protection: IP 68
Max number of starts per hour: 20 at regular intervals
Cable: length 10m
Direction of rotation: clockwise top view
Motor suitable for operation with frequency converter.

Special features on request

(Check feasibility according to the model with our Technical Sales Office)
Impeller in stainless steel AISI 316 or bronze.
Bronze impeller seat ring.
Cable length up to 40 m
Other mechanical seal.
Higher or lower liquid or ambient temperatures.
Ceramic coating.
Internal anti-erosion coating, external anti-corrosion.

Designation

GKG2 40-4T-0020
GK = Series
G = Impeller with shredder system
2 = Number of poles
40 = Delivery port diameter in mm
4 = Free passage in mm
T = Impeller trim
0020 = Motor size kW x 10

Technical data

TYPE	Dry chamber version		Probes		Cable		Class	Duck foot coupling	Duck foot coupling	Threaded bend
	Vertical	Horizontal	thermal	conductivity	NSSHOU-J	H07RN-F	Isolation			
GKG2 40-4T-0020F	–	–	o	o	–	•	H	SAK 40-G11/2A	SAK 40-G11/2-3/4	CFF 1 1/2"
GKG2 40-4R-0020F	–	–	o	o	–	•	H	SAK 40-G11/2A	SAK 40-G11/2-3/4	CFF 1 1/2"
GKG2 40-4D-0020F	–	–	o	o	–	•	H	SAK 40-G11/2A	SAK 40-G11/2-3/4	CFF 1 1/2"
GKG2 40-4G-0020F	–	–	o	o	–	•	H	SAK 40-G11/2A	SAK 40-G11/2-3/4	CFF 1 1/2"
GKG2 40-4P-0025F	–	–	o	o	–	•	H	SAK 40-G11/2A	SAK 40-G11/2-3/4	CFF 1 1/2"
GKG2 40-4A-0025F	–	–	o	o	–	•	H	SAK 40-G11/2A	SAK 40-G11/2-3/4	CFF 1 1/2"
GKG2 40-4G-0038H	•	•	•	•	•	–	H	SAK 40-G11/2A	SAK 40-G11/2-3/4	CFF 1 1/2"
GKG2 40-4D-0048H	•	•	•	•	•	–	H	SAK 40-G11/2A	SAK 40-G11/2-3/4	CFF 1 1/2"
GKG2 40-4A-0065H	•	•	•	•	•	–	H	SAK 40-G11/2A	SAK 40-G11/2-3/4	CFF 1 1/2"

• = Standard - = Not present o = Optional

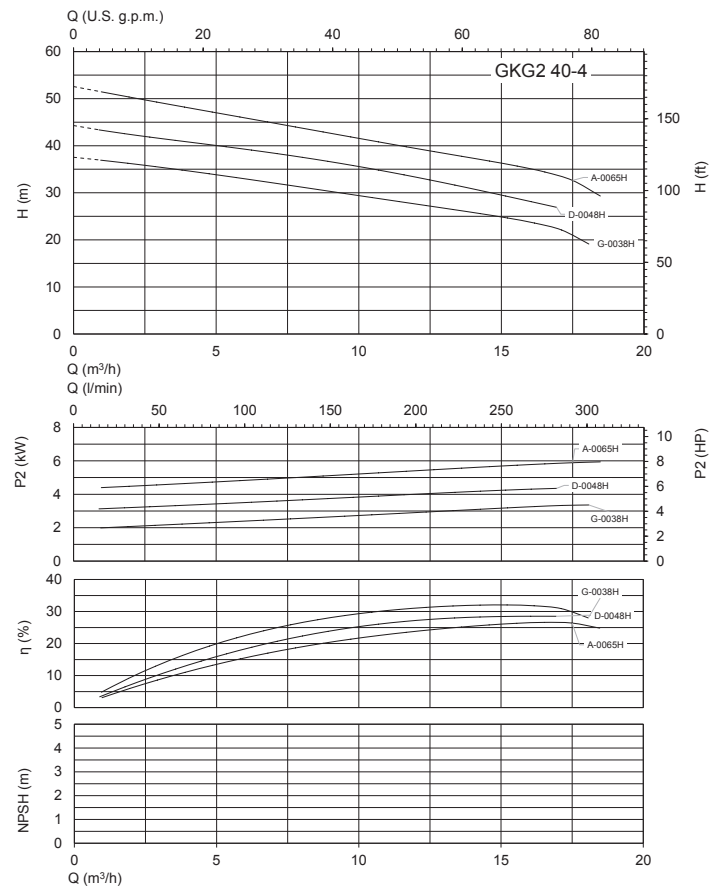
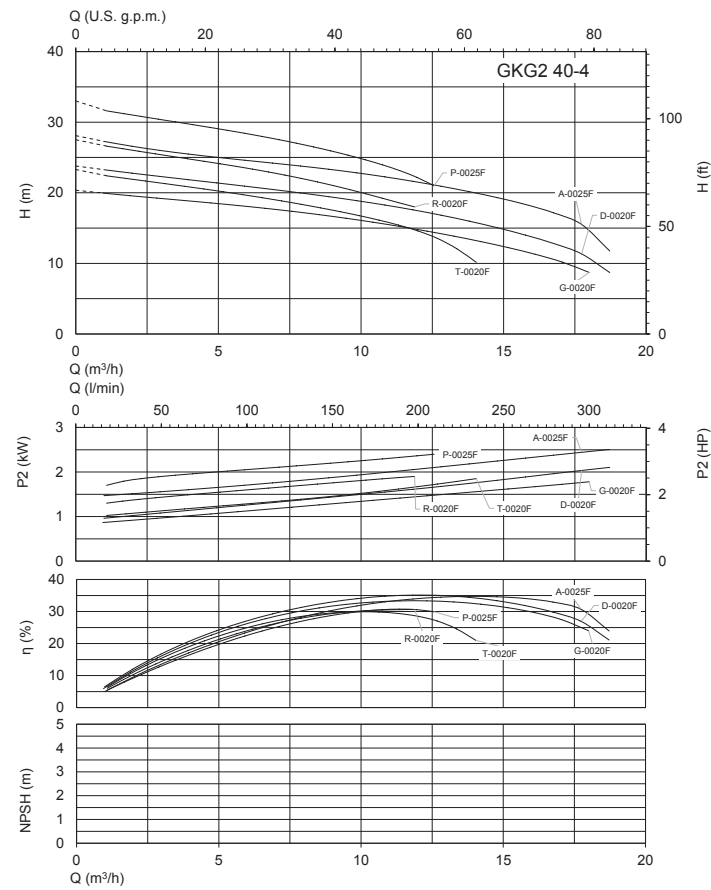


Performance

n ≈ 2850 1/min

					Q = Flow												
					m³/h	0	1,4	1,8	2,2	2,5	2,9	3,2	3,6	7,2	10,8	14,4	18
Model	400V	400V	690V	P2	l/min	0	23,33	30	36,66	41,66	48,33	53,33	60	120	180	240	300
	A	A	A	kW	H (m) = Total head												
GKG2 40-4T-0020F	4,1	-	-	2		23,3	22,2	22	21,8	21,6	21,4	21,2	21	18,9	16	-	-
GKG2 40-4R-0020F	4,1	-	-	2		27,5	26,4	26,1	25,9	25,7	25,5	25,2	25	22,6	19,2	-	-
GKG2 40-4D-0020F	4,1	-	-	2		23,8	23	22,9	22,7	22,5	22,3	22,2	22	20,3	18,3	15,4	10,6
GKG2 40-4G-0020F	4,1	-	-	2		20,3	19,8	19,6	19,5	19,4	19,2	19,1	19	17,5	15,6	12,9	8,7
GKG2 40-4P-0025F	5,5	-	-	2,5		33	31,4	31,1	30,9	30,7	30,4	30,2	30	27,5	23,9	-	-
GKG2 40-4A-0025F	5,5	-	-	2,5		28,1	27	26,7	26,5	26,3	26	25,9	25,7	24,1	22,3	19,6	14,5
GKG2 40-4G-0038H	7,5	-	-	3,8		37,5	36,6	36,3	36,1	35,8	35,5	35,3	35	31,9	28,7	25,4	19,3
GKG2 40-4D-0048H	8,9	-	-	4,8		44,3	42,9	42,5	42,3	42	41,7	41,4	41,1	38,3	34,7	30,3	-
GKG2 40-4A-0065H	-	11,9	6,9	6,5		52,6	50,9	50,5	50,1	49,7	49,3	48,9	48,5	44,6	40,7	36,9	30,9

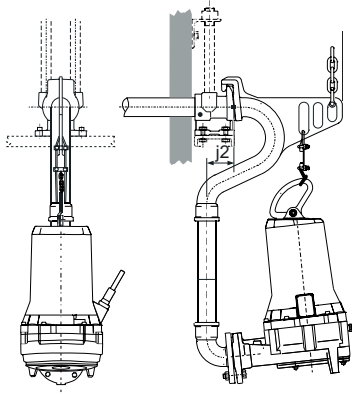
Characteristic curves



Dimensions and weight

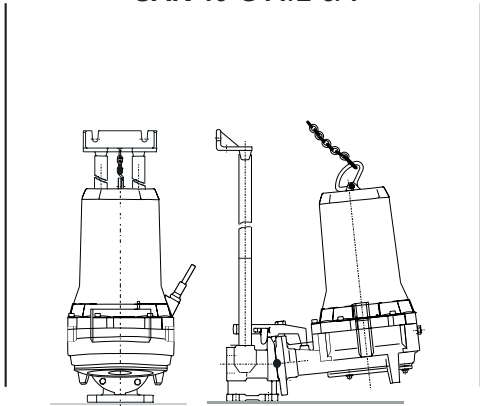
Duck foot coupling

SAK 40-G11/2A



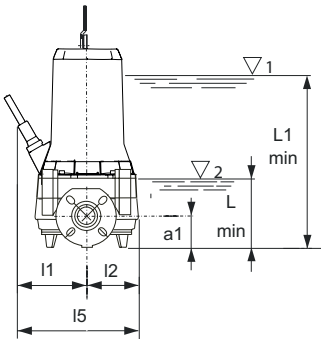
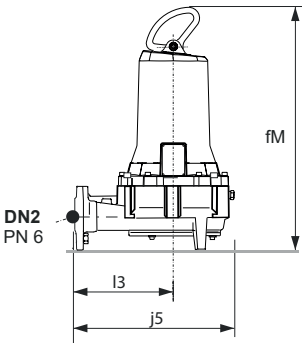
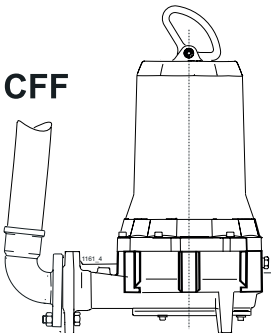
Submersible pump rest

SAK 40-G11/2-3/4



Submersible pump with bend

CFF

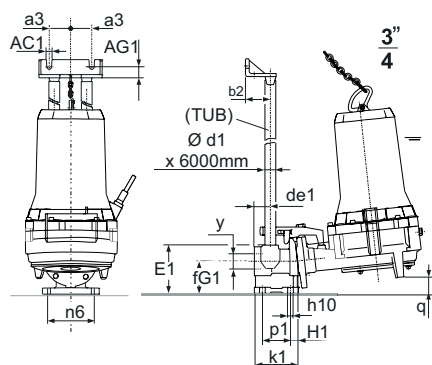


TYPE	DN2	mm										Kg
		a1	fM	j5	K	l1	l2	l5	l5	L1min	Lmin	Weight
GKG2 40-4T-0020F	40	73	476	338	6	112	112	200	224	261	61	52
GKG2 40-4R-0020F	40	73	476	338	6	112	112	200	224	261	61	52
GKG2 40-4D-0020F	40	73	476	338	6	112	112	200	224	261	61	52
GKG2 40-4G-0020F	40	73	476	338	6	112	112	200	224	261	61	52
GKG2 40-4P-0025F	40	73	476	338	6	112	112	200	224	261	61	48
GKG2 40-4A-0025F	40	73	476	338	6	112	112	200	224	261	61	46
GKG2 40-4G-0038H	40	73	571	373	6	204.5	136.5	240	341	317	49	81.8
GKG2 40-4D-0048H	40	73	571	373	6	204.5	136.5	240	341	317	49	76
GKG2 40-4A-0065H	40	73	640	373	6	221	136.5	240	357.5	317	49	97

L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

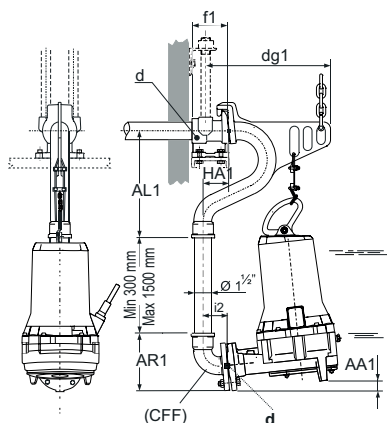
ACCESSORIES

Dimensions and weight



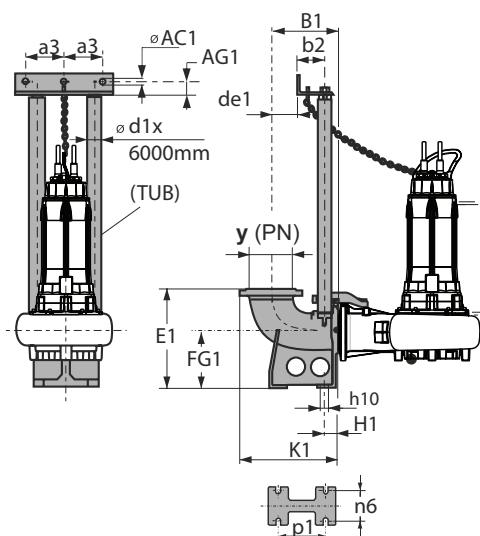
Duck foot coupling

TYPE	mm														
	a3	AC1	AG1	b2	d1	de1	E1	fG1	H1	h10	K1	n6	p1	q	y
SAK 40-G11/2-3/4	52.5	12	27	60	3/4"	40	120	80	21.5	14	113	115	70	37	G1 1/2"



Duck foot coupling

TYPE	mm						g3	HA1
	AA1	AL1	AR1	d	dg1	f1		
SAK 40-G11/2A	29	315	165	G1 1/2"	403	107	76	76

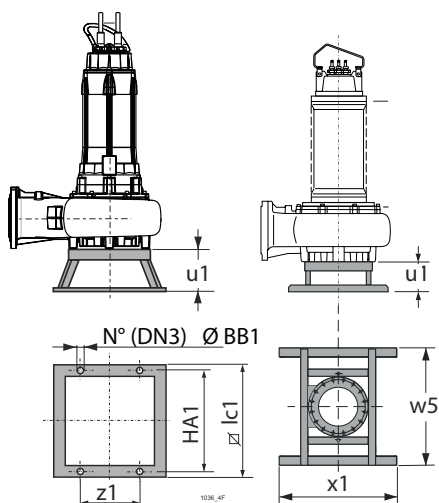


Duck foot coupling

TYPE	mm															
	a3	AC1	AG1	B1	b2	d1	de1	E1	fG1	H1	h10	K1	n6	p1	y	PN
SAK 65-65-2	130	12.5	35	220	102	2"	40	280	160	47	18	312,5	110	156	65	16
SAK 65-80-2	130	12.5	35	220	102	2"	40	280	160	47	18	320	110	156	80	16
SAK 80-100-2	130	12.5	35	228	102	2"	48	320	180	47	18	338	110	156	100	16
SAK 80-80-2	130	12.5	35	220	102	2"	40	320	180	47	18	320	110	156	80	16
SAK 100-100-2	130	12.5	35	228	102	2"	48	430	280	49	18	338	194	186	100	16
SAK 100-100-2A	130	12.5	35	228	102	2"	48	350	200	49	18	338	135	186	100	16
SAK 150-150-2	158	12.5	35	260	102	2"	75	435	235	59	19	403	194	214	150	16
SAK 150-200-3	157.5	12.5	35	385	117	3"	180	540	290	80	24	555	210	280	200	10
SAK 200-250-3	157.5	12.5	35	425	117	3"	220	595	345	80	24	623	250	380	250	10
SAK 200-250-3	157.5	12.5	35	425	117	3"	220	595	345	80	24	623	250	380	250	10
SAK 250-300-3	157.5	12.5	35	450	117	3"	245	700	400	85	24	673	310	425	300	10
SAK 300-350-3	157.5	12.5	35	500	117	3"	295	820	500	90	24	755	360	475	350	10
SAK 350-400-3	157.5	12.5	35	525	117	3"	320	920	575	95	24	810	400	510	400	10
SAK 250-300-3A	157.5	12.5	35	450	117	3"	245	700	400	85	24	673	310	425	300	10
SAK 300-350-3A	157.5	12.5	35	500	117	3"	295	820	500	90	24	755	360	475	350	10
SAK 350-400-3A	157.5	12.5	35	525	117	3"	320	920	575	95	24	810	400	510	400	10

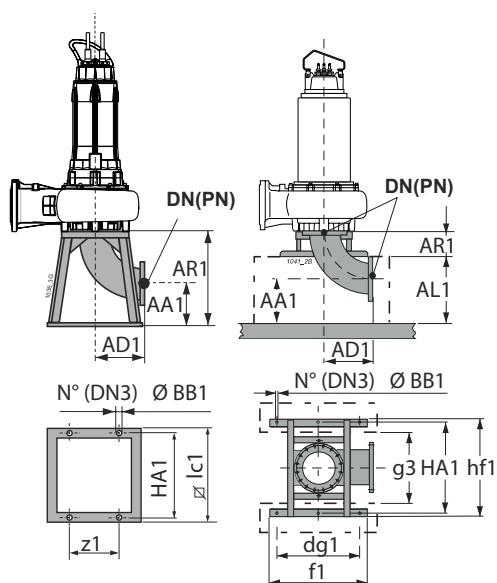
ACCESSORIES

Dimensions and weight



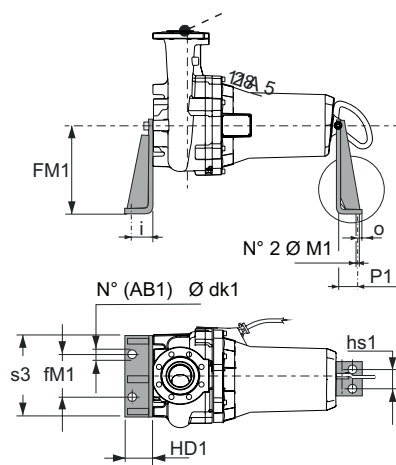
Submersible pump rest

TYPE	mm							
	BB1	DN3	HA1	lc1	u1	w5	x1	z1
APK 80	12	4	400	440	166	-	-	230
APK 100	14	4	600	650	180	-	-	350
APK 100A	14	4	600	650	180	-	-	350
APK 150	14	4	600	650	220	-	-	350
APK 150A	-	-	-	-	280	1000	1000	-
APK 250	14	4	600	650	220	-	-	350
APK 350	-	-	-	-	280	1000	1000	-



Dry chamber pump rest

TYPE	mm														
	DN	PN	AA1	AD1	AL1	AR1	BB1	dg1	DN3	f1	g3	HA1	hf1	lc1	z1
APCK 65	65	16	150	140	-	290	12	-	4	-	-	390	-	440	230
APCK 80	80	16	126	164	-	290	12	-	4	-	-	390	-	440	230
APCK 100	100	16	135	204	-	340	22	-	4	-	-	600	-	650	-
APCK 150	150	16	285	395	400	280	22	850	6	1000	740	935	1000	-	-
APCK 150A	150	16	205	395	-	600	22	-	4	-	-	600	-	650	-
APCK 200	200	10	290	310	-	600	22	-	4	-	-	600	-	650	-
APCK 250	250	10	215	385	-	600	22	-	4	-	-	600	-	650	-
APCK 250A	250	10	295	385	400	280	22	850	6	1000	740	935	1000	-	-
APCK 300	300	10	320	465	500	280	22	850	6	1000	740	935	1000	-	-
APCK 350	350	10	345	540	600	280	22	850	6	1000	740	935	1000	-	-

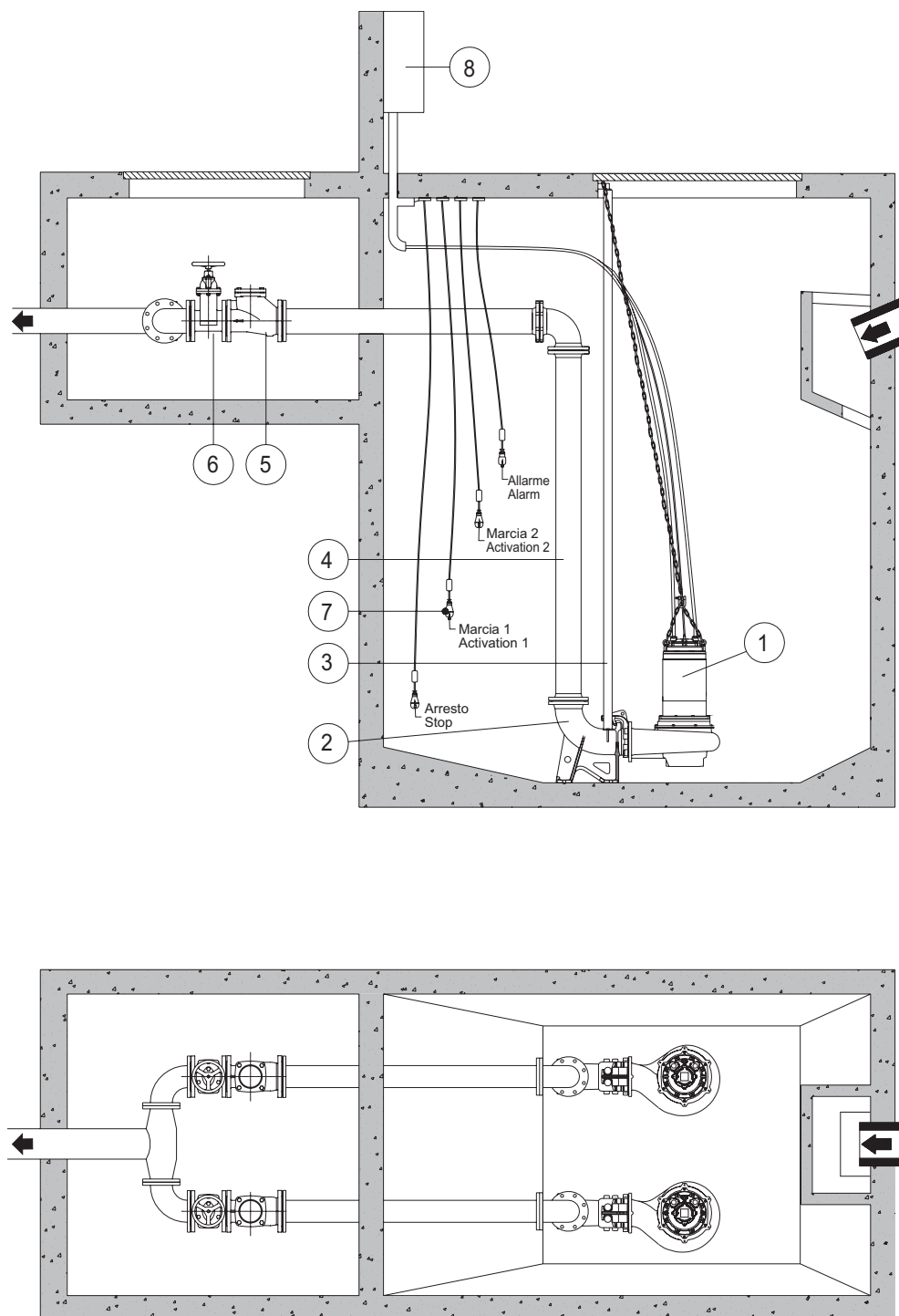


Dry chamber pump support

TYPE	mm										
	AB1	c1	dk1	fM1	HD1	hs1	i	M1	o	P1	s3
SOK80/N3	2	400	22	270	100	100	66	22	34	43	400
SOK100/N3	2	400	22	320	100	100	66	22	34	43	470
SOK150/N3	2	400	22	320	100	100	66	22	34	43	470
SOK150-200	3	530	22	335	160	270	100	22	40	85	-
SOK150-225	3	530	22	335	160	270	100	22	40	85	-
SOK150-250	3	530	22	335	160	270	100	22	40	85	-
SOK350-200	3	530	22	500	160	270	100	22	40	85	-
SOK350-225	3	530	22	500	160	270	100	22	40	85	-
SOK350-250	3	530	22	500	160	270	100	22	40	85	-
SOK 350-280	3	530	22	500	160	270	100	22	100	20	-
SOK 350-315	3	530	22	500	160	270	100	22	100	20	-

ACCESSORIES

Installation with duck foot coupling



- 2 Submersible pump
- 3 Duck foot coupling
- 4 Guide pipes
- 5 Delivery pipe
- 6 Check valve
- 7 Gate valve
- 8 Level float
- 9 Control box