

Submersible pumps

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.

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

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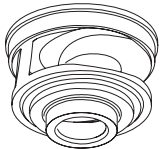
**GKV**

#### 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**

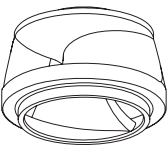
#### SINGLE-CHANNEL IMPELLER

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**

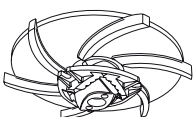
#### DOUBLE CHANNEL IMPELLER

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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**GKG**

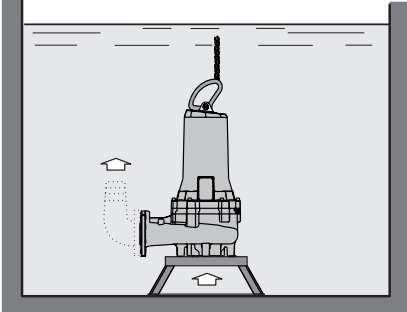
#### SHREDDER

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.

## STANDARD INSTALLATIONS

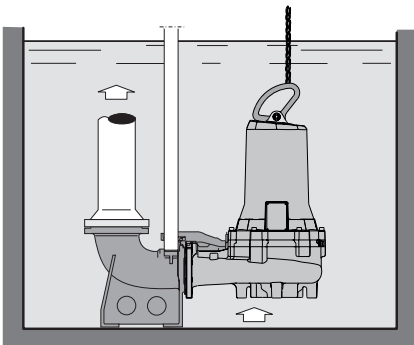


### Mobile and emergency immersed installation with support foot

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.

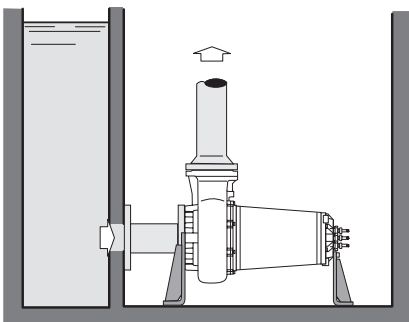
It is the most suitable installation for fixed lifting stations. No special building infrastructures are required and the system is easy to build. The quick coupling allows quick and easy extraction and subsequent repositioning

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.

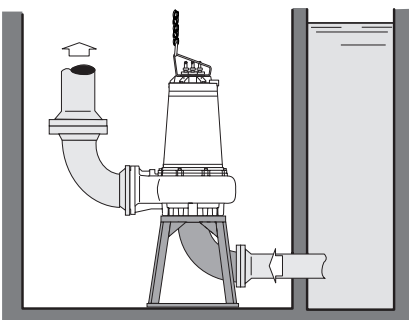
Compared to traditional non-submersible machines, it has maximum operating safety and absence of risks even in the event that the dry chamber is submerged in liquid. Support stands are available.



### HORIZONTAL

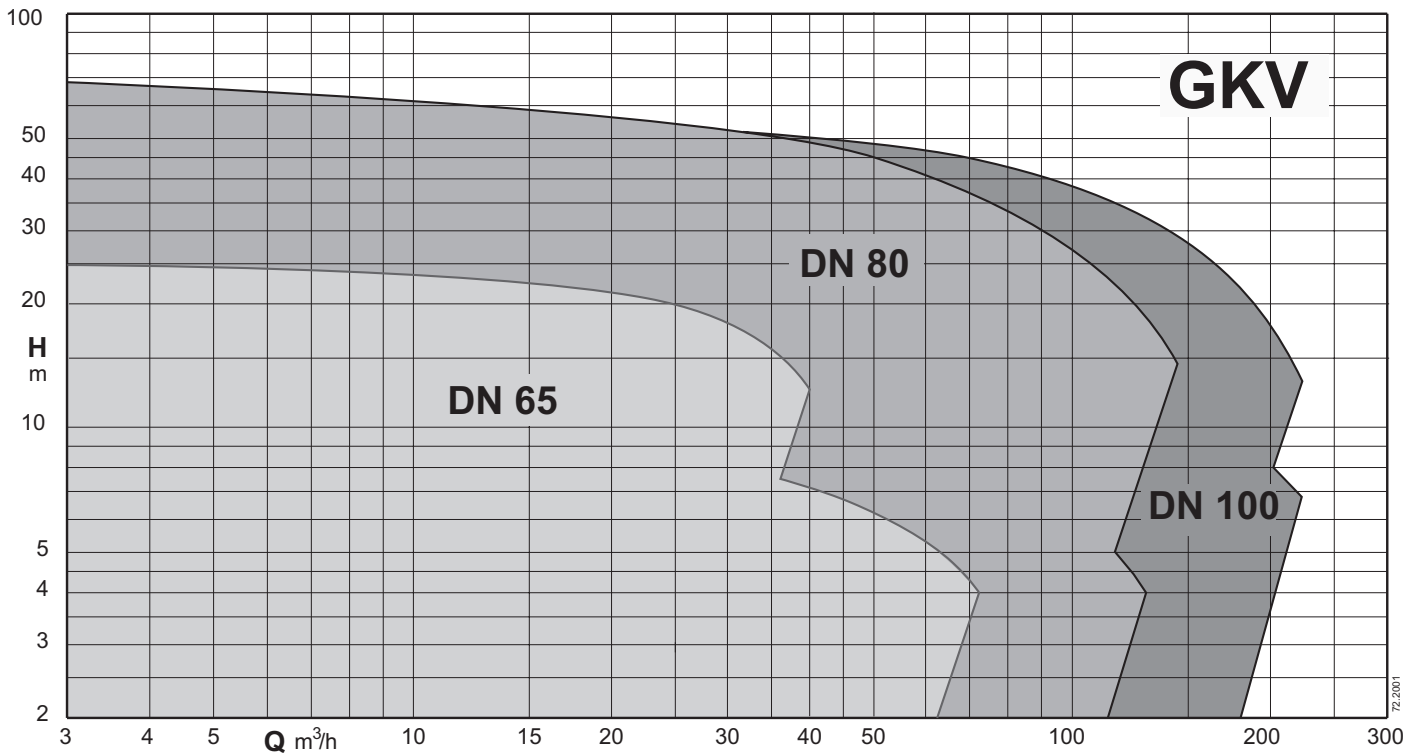
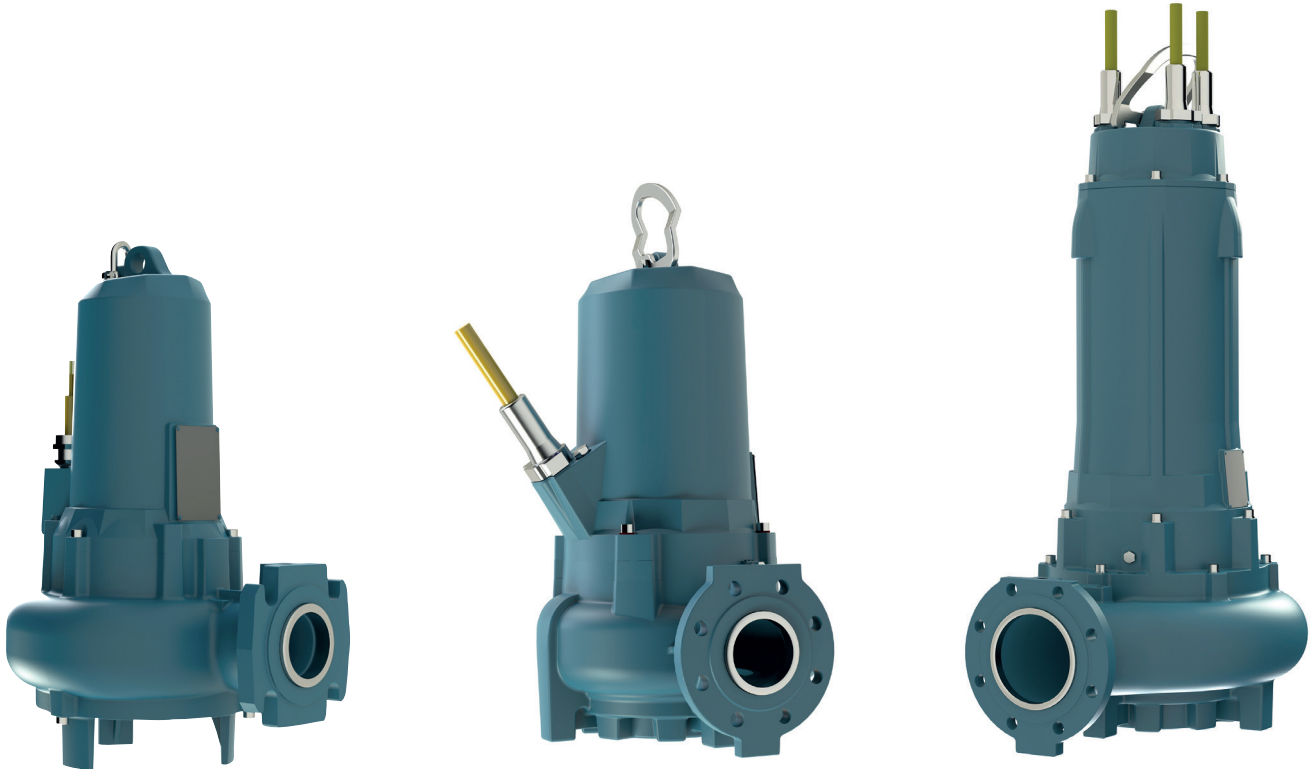
With outlet vent pointing upwards. The electric pump is attached with support brackets.

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 55 to 100 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  
Impeller: cast iron  
Motor casing: cast iron  
Shaft: stainless steel  
Motor side mechanical seal: graphite/ceramic  
Pump side mechanical seal: silicon carbide/ceramic

### 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					
GKV4 65-55G-0016	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKV4 65-55D-0024	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKV4 65-55A-0026	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKV2 65-40L-0020	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKV2 65-40G-0025	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKV2 65-40A-0031	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKV2 65-40D-0031	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKV6 80-80P-0015	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 80-80M-0015	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 80-80I-0015	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 80-80E-0015	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 80-80A-0015	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80P-0016	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80M-0016	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80I-0021	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80H-0029	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80E-0037	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80C-0046	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV4 80-80A-0058	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80V-0048	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80X-0048	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80Z-0048	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80N-0065	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80P-0065	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80Q-0065	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80R-0065	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80T-0065	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80W-0048	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80W-0065	#	#	•	•	•	-	H	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

### 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

### Designation

GKV4 65-55D-0024  
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

**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-0090	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80T-0090	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80R-0090	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80Q-0090	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80P-0090	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80N-0090	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80R-0125	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80P-0165	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80L-0165	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80G-0165	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80D-0165	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV2 80-80A-0165	#	#	•	•	•	–	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKV6 100-100E-0040	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV6 100-100C-0040	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV6 100-100A-0040	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100R-0021	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100N-0029	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100L-0037	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100F-0046	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100A-0058	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100E-0075	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100C-0105	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV4 100-100A-0125	#	#	•	•	•	–	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKV2 100-80L-0260	#	–	•	•	•	–	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKV2 100-80I-0260	#	–	•	•	•	–	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKV2 100-80H-0350	#	–	•	•	•	–	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKV2 100-80G-0350	#	–	•	•	•	–	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKV2 100-80F-0350	#	–	•	•	•	–	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKV2 100-80E-0350	#	–	•	•	•	–	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKV2 100-80D-0350	#	–	•	•	•	–	H	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**

Model	400V A	P2 kW	Q = Flow															
			m³/h	0														
			l/min	2,9	3,6	7,2	10,8	14,4	18	21,5	25,2	28,8	32,4	36	54	72		
			48,33	60	120	180	240	300	358	420	480	540	600	900	1200			
			H (m) = Total head															
GKV4 65-55G-0016	3,7	1,6	7,8	7,8	7,7	7,7	7,5	7,3	7,1	6,9	6,6	6,3	5,9	5,5	5,1	-		
GKV4 65-55D-0024	5,1	2,1	9,3	9,3	9,1	9,1	8,9	8,6	8,4	8,1	7,9	7,6	7,4	7,1	6,8	-		
GKV4 65-55A-0026	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**

Model	400V A	P2 kW	Q = Flow																	
			m³/h	0																
			l/min	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		
			36,66	41,66	48,33	53,33	60	120	180	240	300	358	420	480	540	600	660			
			H (m) = Total head																	
GKV2 65-40L-0020	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-0025	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-0031	5,6	3,1	26,8	-	-	-	-	-	24,5	23,4	22,3	21,2	20,1	18,9	-	-	-	-		
GKV2 65-40D-0031	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**

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

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

Model	400V A	400V A	690V A	P2 kW	Q = Flow																	
					m³/h	0																
					l/min	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		
					23,33	36,66	48,33	60	120	180	240	300	358	420	480	540	600	900	1200			
					H (m) = Total head																	
GKV2 80-80V-0048	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-0048	-	-	-	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-0048	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-0048	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-0065	-	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-0065	-	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-0065	-	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-0065	-	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-0065	-	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-0065	-	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	400V	690V	P2	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-0090	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-0090	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-0090	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-0090	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-0090	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-0090	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-0125	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-0165	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-0165	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-0165	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-0165	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-0165	31	17,9	16,5	67,7	67,6	67,5	67,4	-	67,3	66,7	65,2	-	-	-	-	-	-	-	-	-	-

**n ≈ 950 1/min**

Model	400V	P2	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
A		kW	H (m) = Total head												
GKV6 100-100E-0040	9	4	7,3	7,1	6,9	6,6	6,3	6	5,2	4,2	3,1	1,7	-	-	
GKV6 100-100C-0040	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-0040	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**

Model	400V	400V	690V	P2	Q = Flow																
					m³/h	0	7,2	14,4	21,5	28,8	36	45	54	63	72	81	90	99	108	117	126
					l/min		120	240	358	480	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100
A		A	kW	H (m) = Total head																	
GKV4 100-100R-0021	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-0029	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-0037	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-0046	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-0058	-	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**

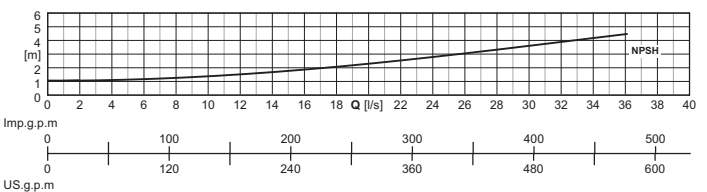
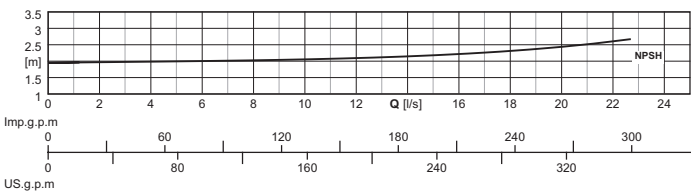
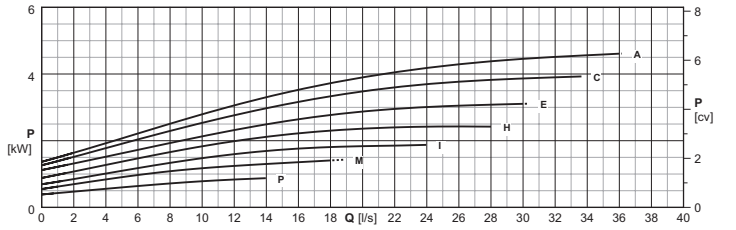
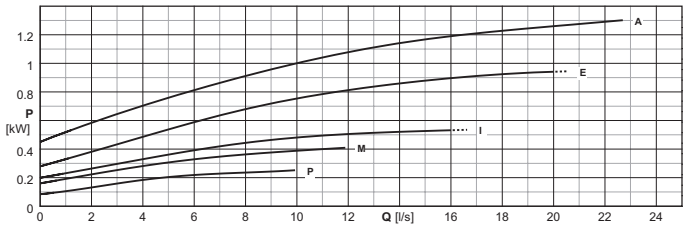
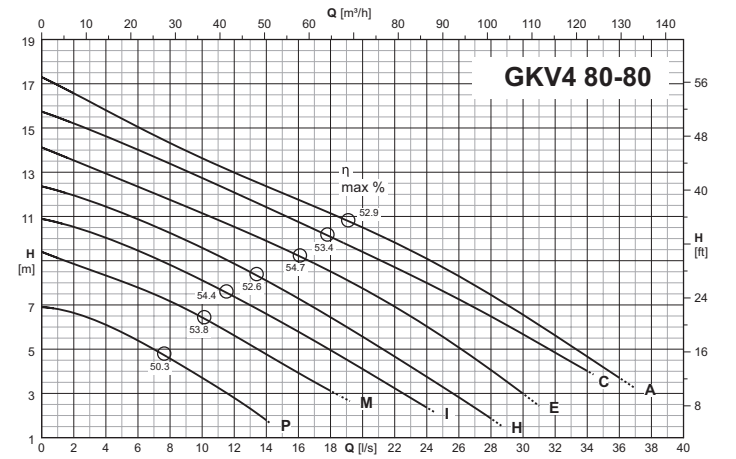
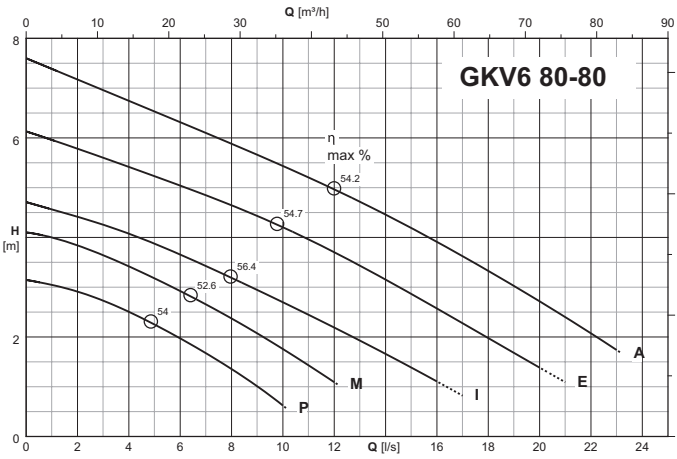
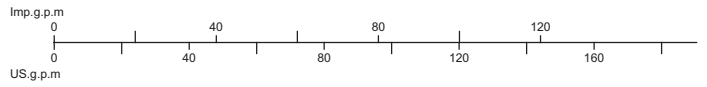
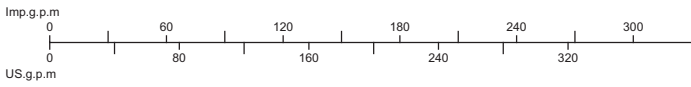
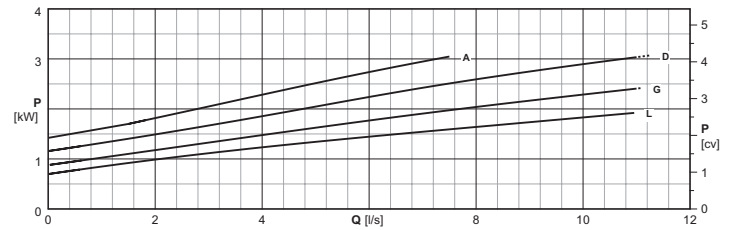
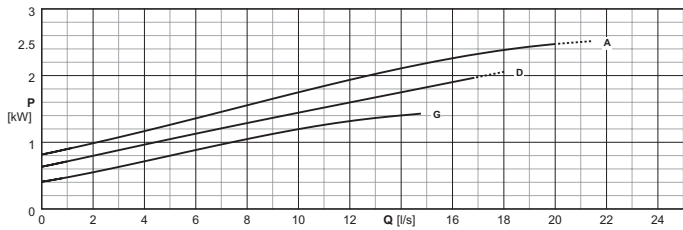
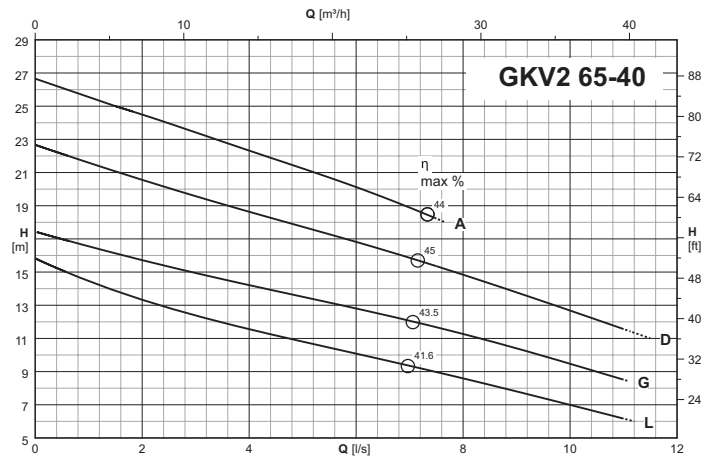
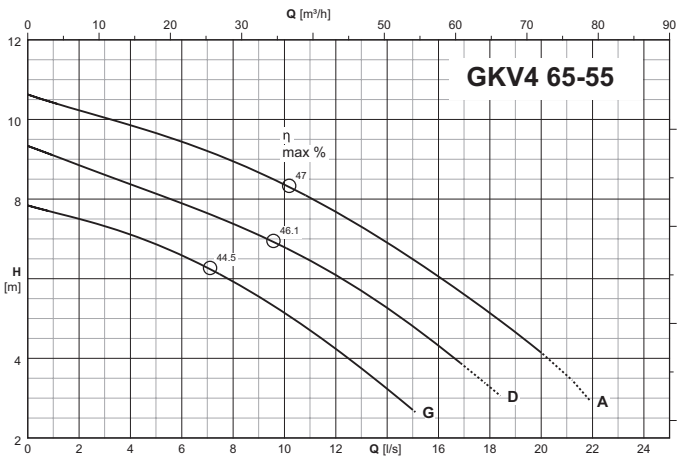
Model	400V	690V	P2	Q = Flow														
				m³/h	0	10,8	18	36	54	72	90	108	126	144	162	180	216	
				l/min		180	300	600	900	1200	1500	1800	2100	2400	2700	3000	3600	
A		kW	H (m) = Total head															
GKV4 100-100E-0075	15,3	8,8	7,5	16,6	16,4	16,2	15,2	14	12,7	11,2	9,7	8,2	6,7	5,2	-	-		
GKV4 100-100C-0105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

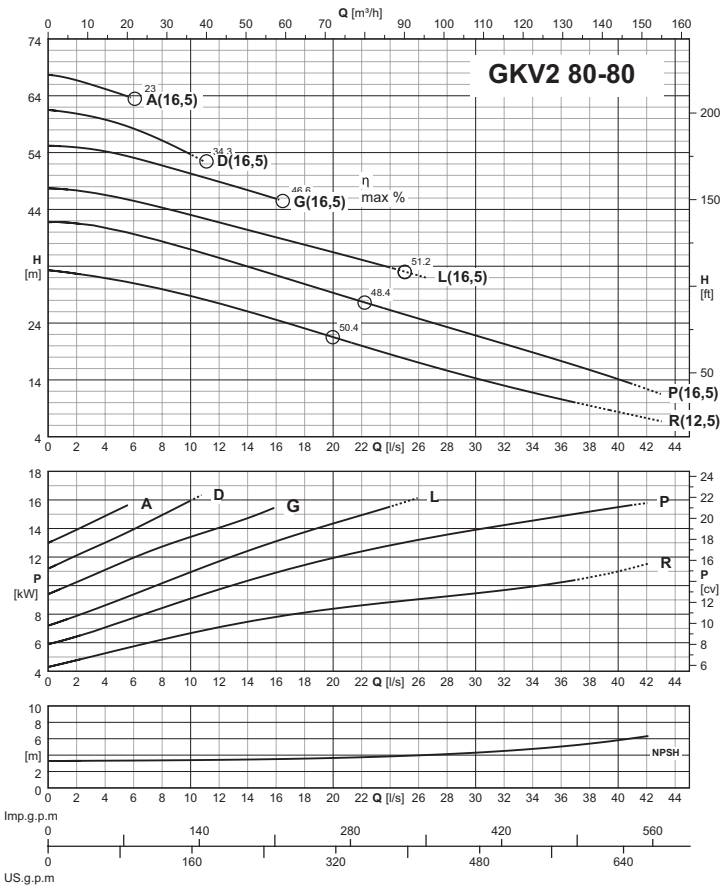
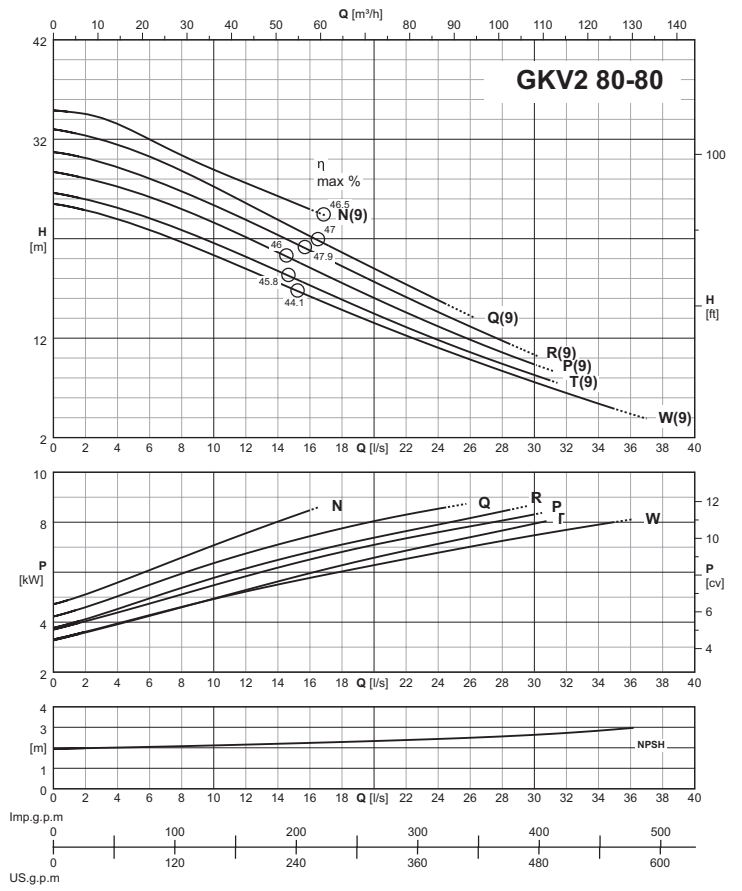
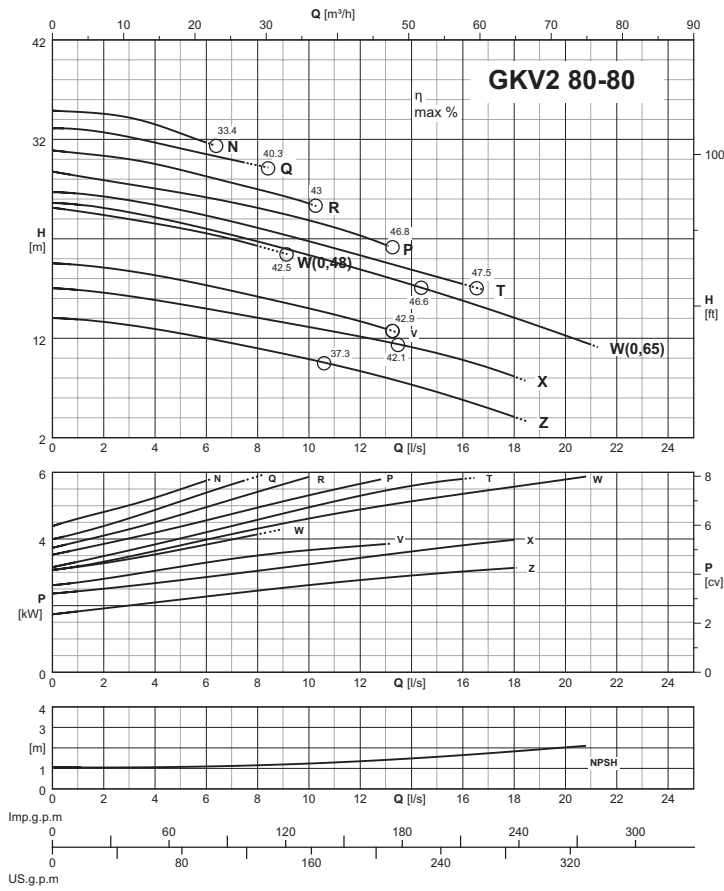
Model	400V	690V	P2	Q = Flow																
				m³/h	0	7,2	14,4	21,5	28,8	36	54	72	90	108	126	144	162	180	198	216
				l/min		120	240	358	480	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
A		kW	H (m) = Total head																	
GKV2 100-80L-0260	44,6	25,7	26	29,2	28,8	28,3	27,8	27,3	26,7	25,2	23,5	21,7	19,7	17,6	15,3	12,9	10,4	7,9	-	-
GKV2 100-80I-0260	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-0350	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-0350	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-0350	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-0350	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-0350	57,8	33,4	35	56,3	56	55,7	55,3	54,9	54,4	52,9	51,1	49	46,6	-	-	-	-	-	-	-



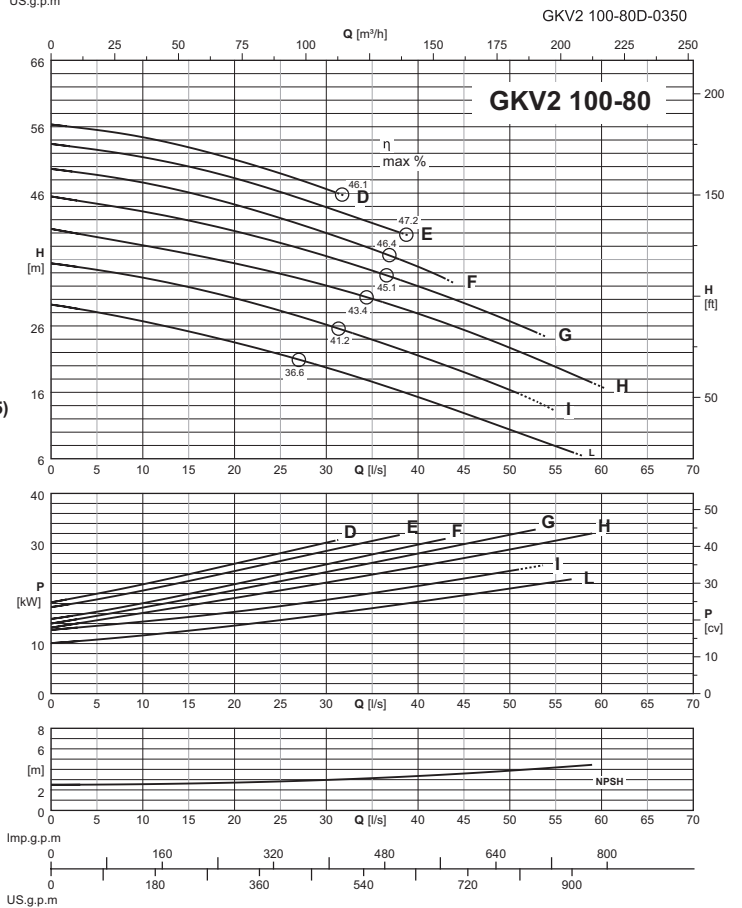
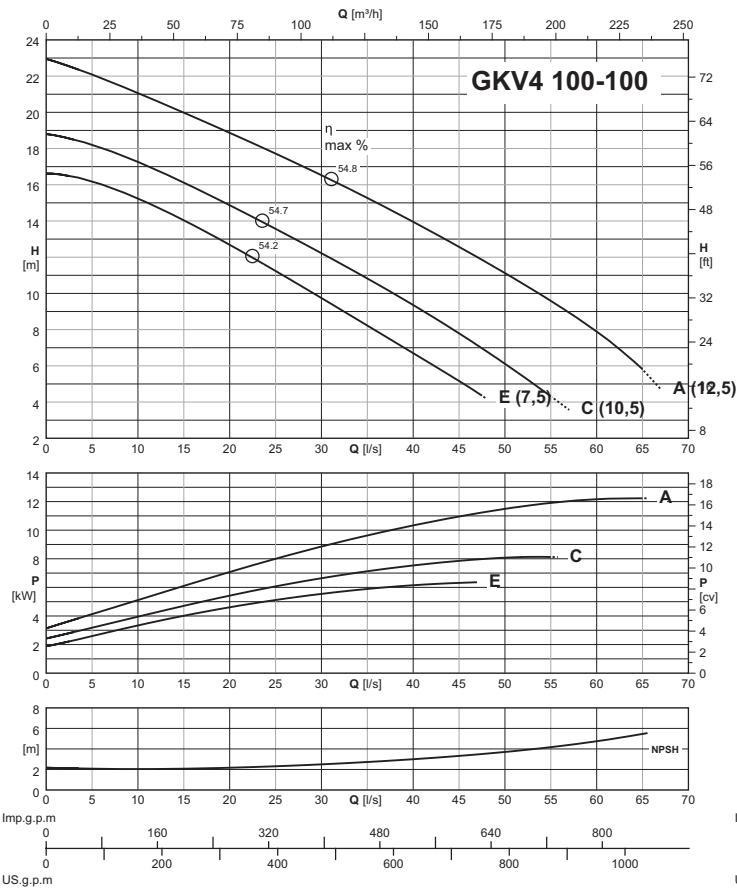
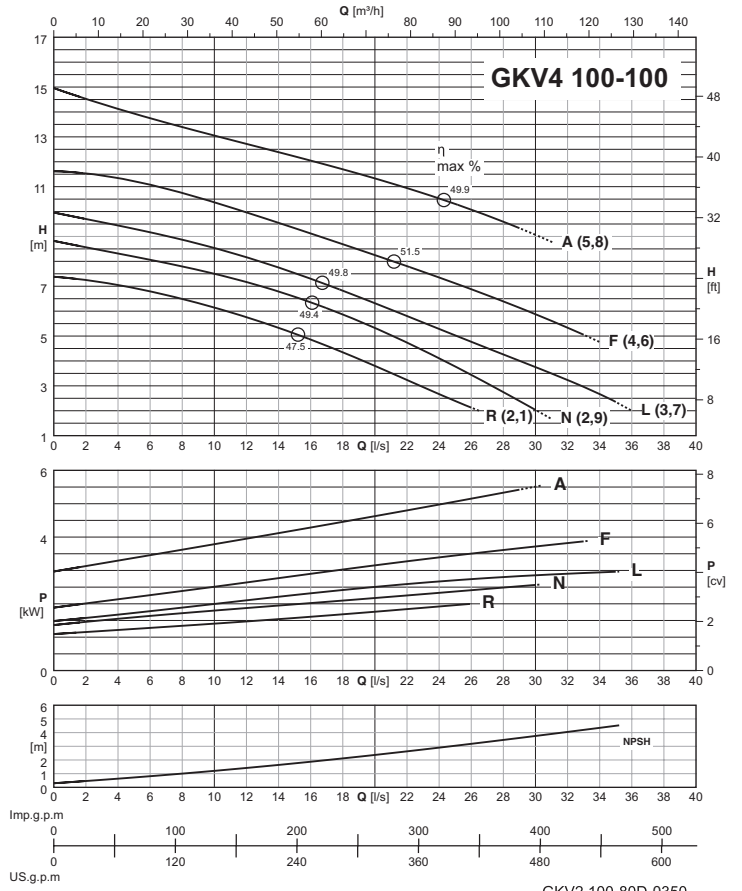
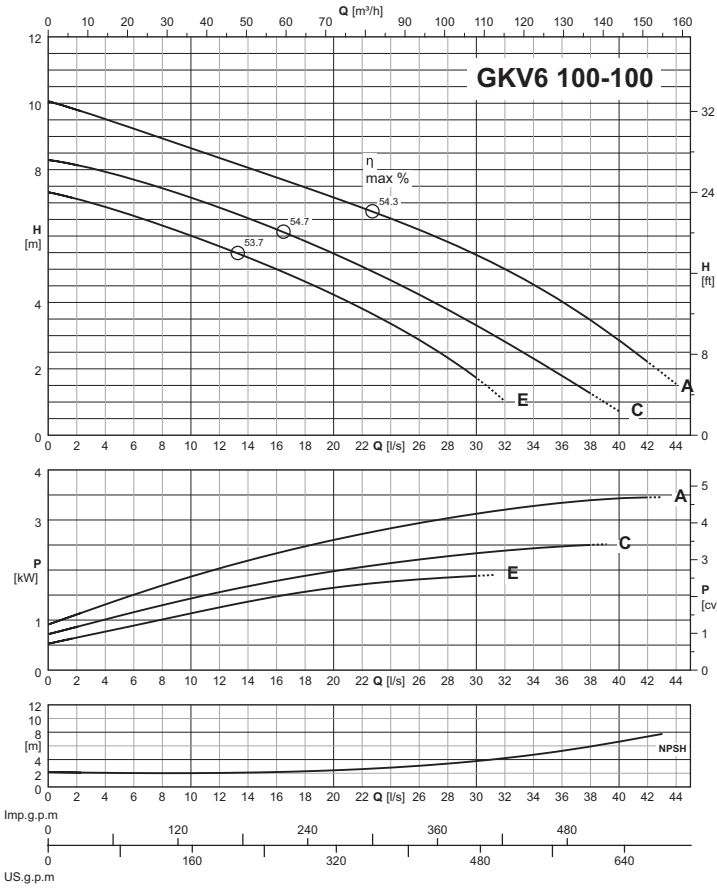
## Characteristic curves



Characteristic curves



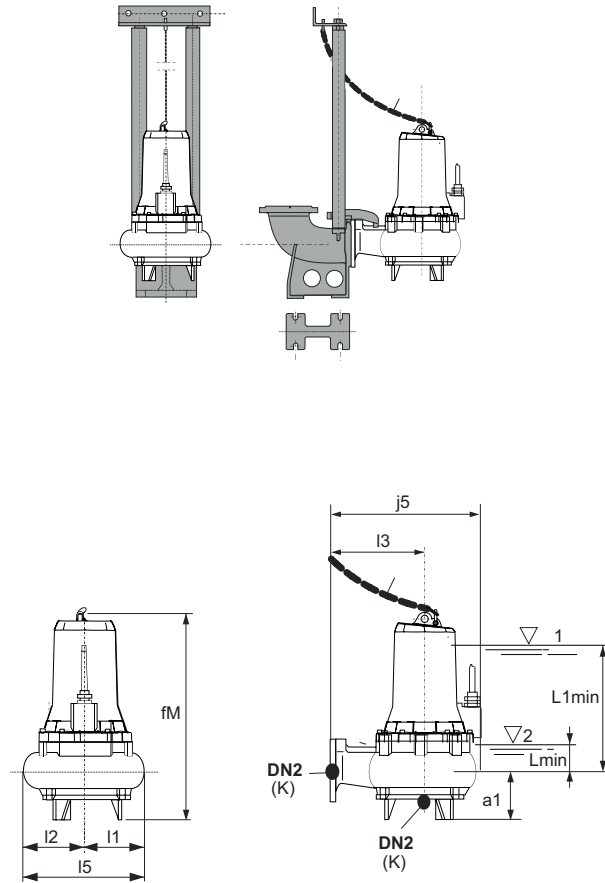
## Characteristic curves



Dimensions and weights

Duck foot coupling

SAK



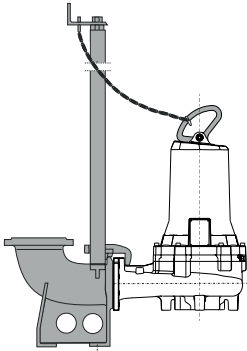
TYPE	ISO 228 DN2	mm										Kg Weight
		a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKV4 65-55G-0016	65	140	565.6	373	16	148	255	148	225	296	90	63
GKV4 65-55D-0024	65	140	565.6	373	16	148	255	148	225	296	90	68
GKV4 65-55A-0026	65	140	565.6	373	16	148	255	148	225	296	90	66
GKV2 65-40L-0020	65	107.5	529.6	363	16	113	282.5	113	225	226	92.5	54
GKV2 65-40G-0025	65	107.5	529.6	370	16	113	282.5	113	225	226	92.5	56
GKV2 65-40A-0031	65	107.5	533.6	370	16	113	282.5	113	225	226	92.5	61
GKV2 65-40D-0031	65	107.5	533.6	370	16	113	282.5	113	225	226	92.5	62

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 weights

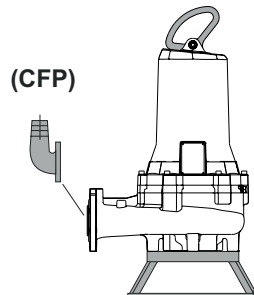
Duck foot coupling

SAK



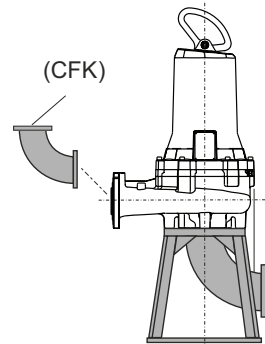
Submersible pump rest

APK



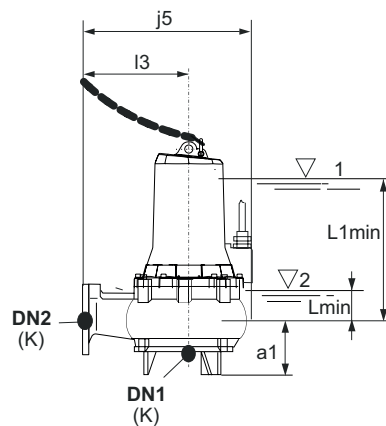
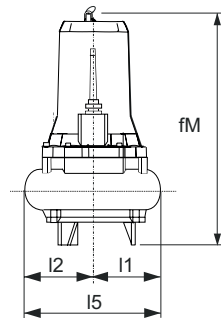
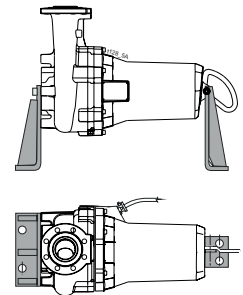
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



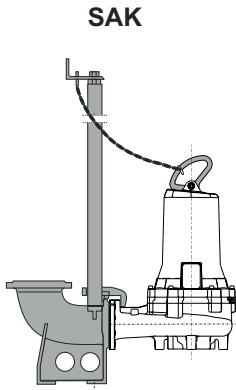
TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	I1	L1min	I2	I5	I5	Lmin	
GKV6 80-80P-0015	80	80	92	638.3	392	16	204.5	315	146	245	350.5	97	83.6
GKV6 80-80M-0015	80	80	92	638.3	392	16	204.5	315	146	245	350.5	97	84.5
GKV6 80-80I-0015	80	80	92	638.3	392	16	204.5	315	146	245	350.5	97	81.6
GKV6 80-80E-0015	80	80	92	638.3	392	16	204.5	315	146	245	350.5	97	86.6
GKV6 80-80A-0015	80	80	92	638.3	392	16	204.5	315	146	245	350.5	97	82.7
GKV4 80-80P-0016	80	80	92	638.3	392	16	204.5	315	146	245	350.5	97	87.8
GKV4 80-80M-0016	80	80	92	638.3	392	16	204.5	315	146	245	350.5	97	88.7
GKV4 80-80I-0021	80	80	92	638.3	392	16	204.5	315	146	245	350.5	97	90.2
GKV4 80-80H-0029	80	80	92	638.3	392	16	204.5	315	146	245	350.5	97	94.5
GKV4 80-80E-0037	80	80	92	707.4	392	16	221	349	146	245	367	97	109.5
GKV4 80-80C-0046	80	80	92	707.4	392	16	221	349	146	245	367	97	109.7
GKV4 80-80A-0058	80	80	92	707.4	392	16	221	349	146	245	367	97	114.7

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

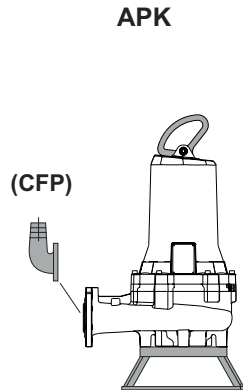
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

## Dimensions and weights

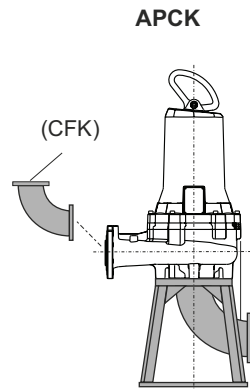
Duck foot coupling



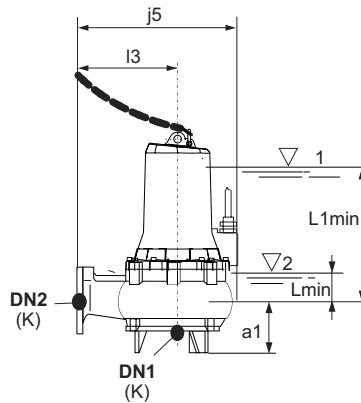
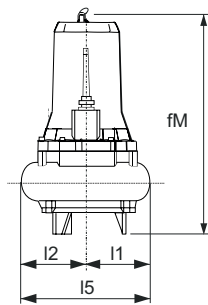
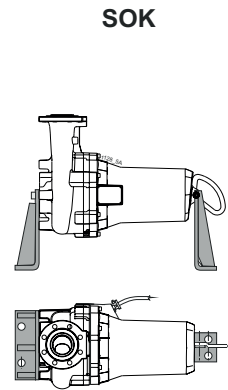
Submersible pump rest



Dry chamber pump rest



Dry chamber pump support



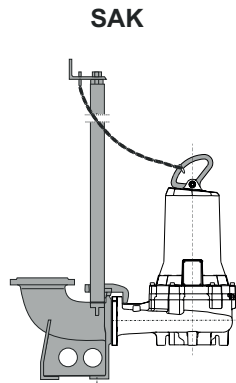
TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKV2 80-80V-0048	80	80	92	638.3	392	16	204.5	349	146	245	350.5	97	92.8
GKV2 80-80X-0048	80	80	92	638.3	392	16	204.5	349	146	245	350.5	97	92.7
GKV2 80-80Z-0048	80	80	92	638.3	392	16	204.5	349	146	245	350.5	97	92.5
GKV2 80-80N-0065	80	80	92	707.4	392	16	221	349	146	245	367	97	112.8
GKV2 80-80P-0065	80	80	92	707.4	392	16	221	349	146	245	367	97	112.4
GKV2 80-80Q-0065	80	80	92	707.4	392	16	221	349	146	245	367	97	113
GKV2 80-80R-0065	80	80	92	707.4	392	16	221	349	146	245	367	97	112.6
GKV2 80-80T-0065	80	80	92	707.4	392	16	221	349	146	245	367	97	112.6
GKV2 80-80W-0048	80	80	92	638.3	392	16	204.5	349	146	245	350.5	97	92.4
GKV2 80-80W-0065	80	80	92	707.4	392	16	221	349	146	245	367	97	112.4
GKV2 80-80W-0090	80	80	92	707.4	392	16	221	349	146	245	367	97	-
GKV2 80-80T-0090	80	80	92	707.4	392	16	221	349	146	245	367	97	-
GKV2 80-80R-0090	80	80	92	707.4	392	16	221	349	146	245	367	97	-
GKV2 80-80Q-0090	80	80	92	707.4	392	16	221	349	146	245	367	97	-
GKV2 80-80P-0090	80	80	92	707.4	392	16	221	349	146	245	367	97	-
GKV2 80-80N-0090	80	80	92	707.4	392	16	221	349	146	245	367	97	116.4
GKV2 80-80D-0125	80	80	99	775	543	16	225.5	446	165	370	401.5	98	144.2
GKV2 80-80P-0165	80	80	99	777.4	543	16	236.5	446	165	370	401.5	98	168.5
GKV2 80-80L-0165	80	80	99	777.4	543	16	236.5	446	165	370	401.5	98	169.1
GKV2 80-80G-0165	80	80	99	777.4	543	16	236.5	446	165	370	401.5	98	169.4
GKV2 80-80D-0165	80	80	99	777.4	543	16	236.5	446	165	370	401.5	98	169.7
GKV2 80-80A-0165	80	80	99	777.4	543	16	236.5	446	165	370	401.5	98	170.3

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

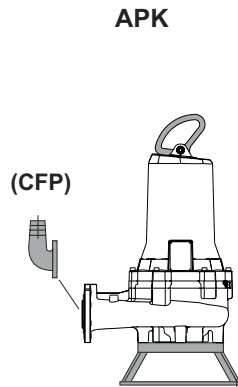
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

## Dimensions and weights

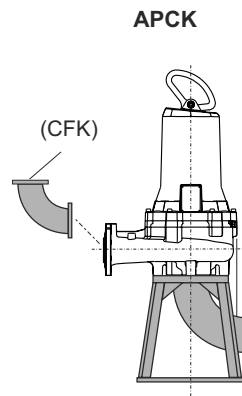
Duck foot coupling



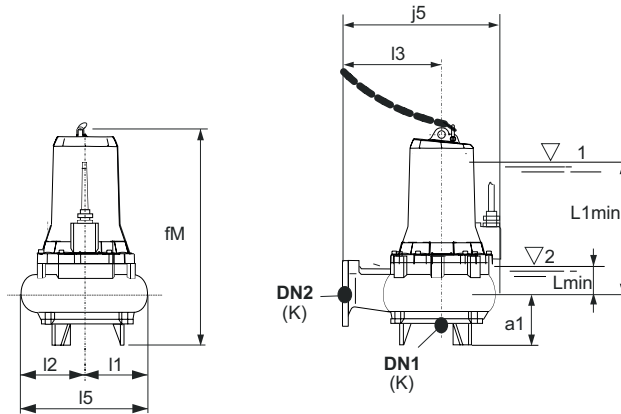
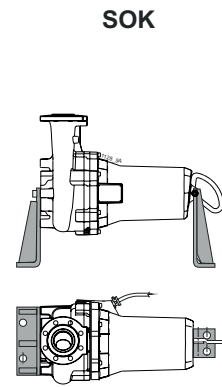
Submersible pump rest



Dry chamber pump rest



Dry chamber pump support



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKV6 100-100E-0040	100	100	112	798	473	16	225.5	468	178.5	295	404	106	139.9
GKV6 100-100C-0040	100	100	112	798	473	16	225.5	468	178.5	295	404	106	140.3
GKV6 100-100A-0040	100	100	112	798	473	16	225.5	468	178.5	295	404	106	140.9
GKV4 100-100R-0021	100	100	112	668.3	434	16	204.5	326	171	263	375.5	106	96.6
GKV4 100-100N-0029	100	100	112	668.3	434	16	204.5	326	171	263	375.5	106	96.8
GKV4 100-100L-0037	100	100	112	737.4	434	16	221	361	171	263	392	106	111.3
GKV4 100-100F-0046	100	100	112	737.4	434	16	221	361	171	263	392	106	111.7
GKV4 100-100A-0058	100	100	112	737.4	434	16	221	361	171	263	392	106	121.2
GKV4 100-100E-0075	100	100	112	798	473	16	225.5	468	178.5	295	404	106	148.4
GKV4 100-100C-0105	100	100	112	800.4	473	16	236	468	178.5	295	414.5	106	172
GKV4 100-100A-0125	100	100	112	800.4	473	16	236.5	468	178.5	295	415	106	172.6

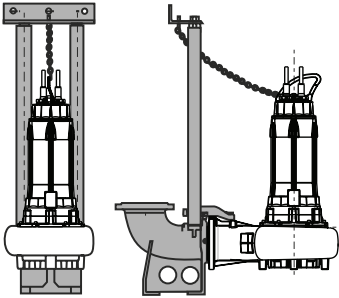
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

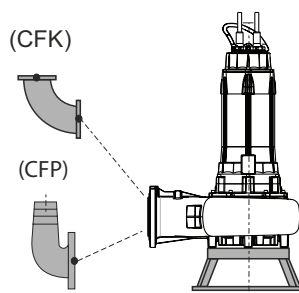
### Duck foot coupling

#### SAK



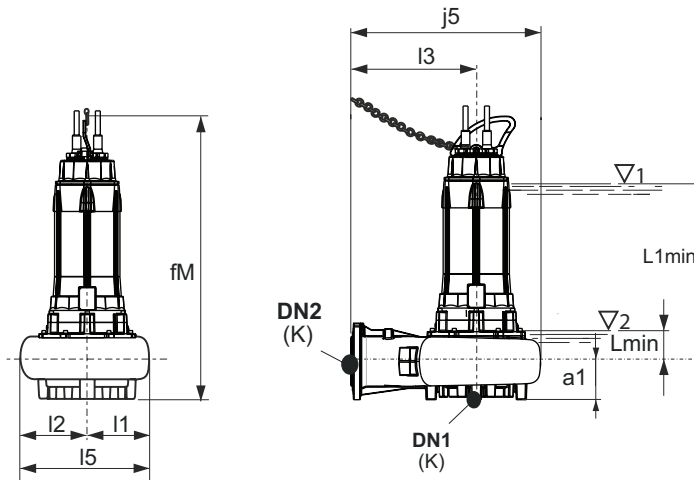
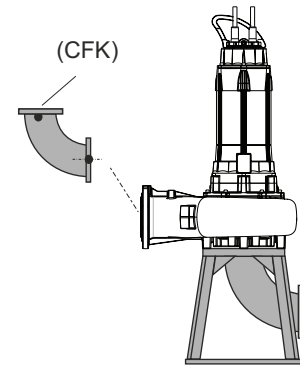
### Submersible pump rest

#### APK



### Dry chamber pump rest

#### APCK

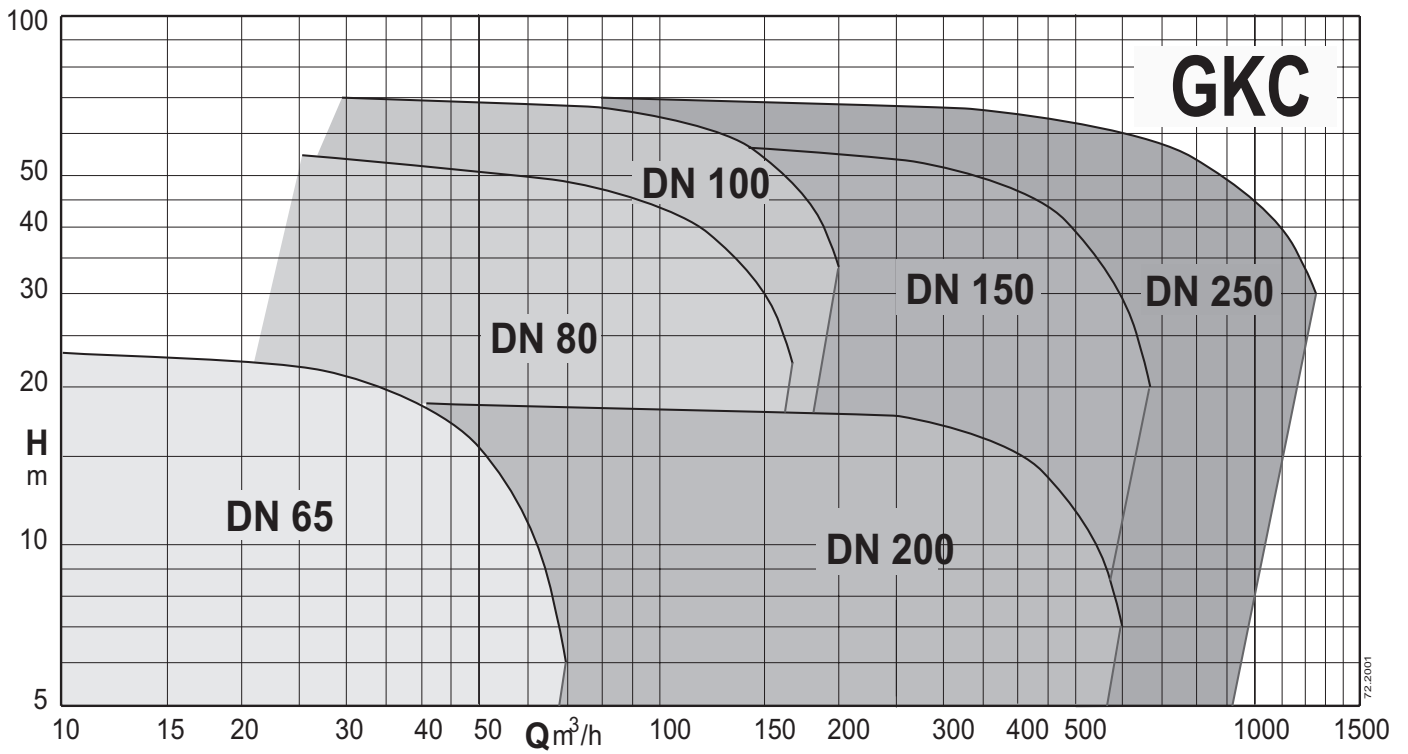
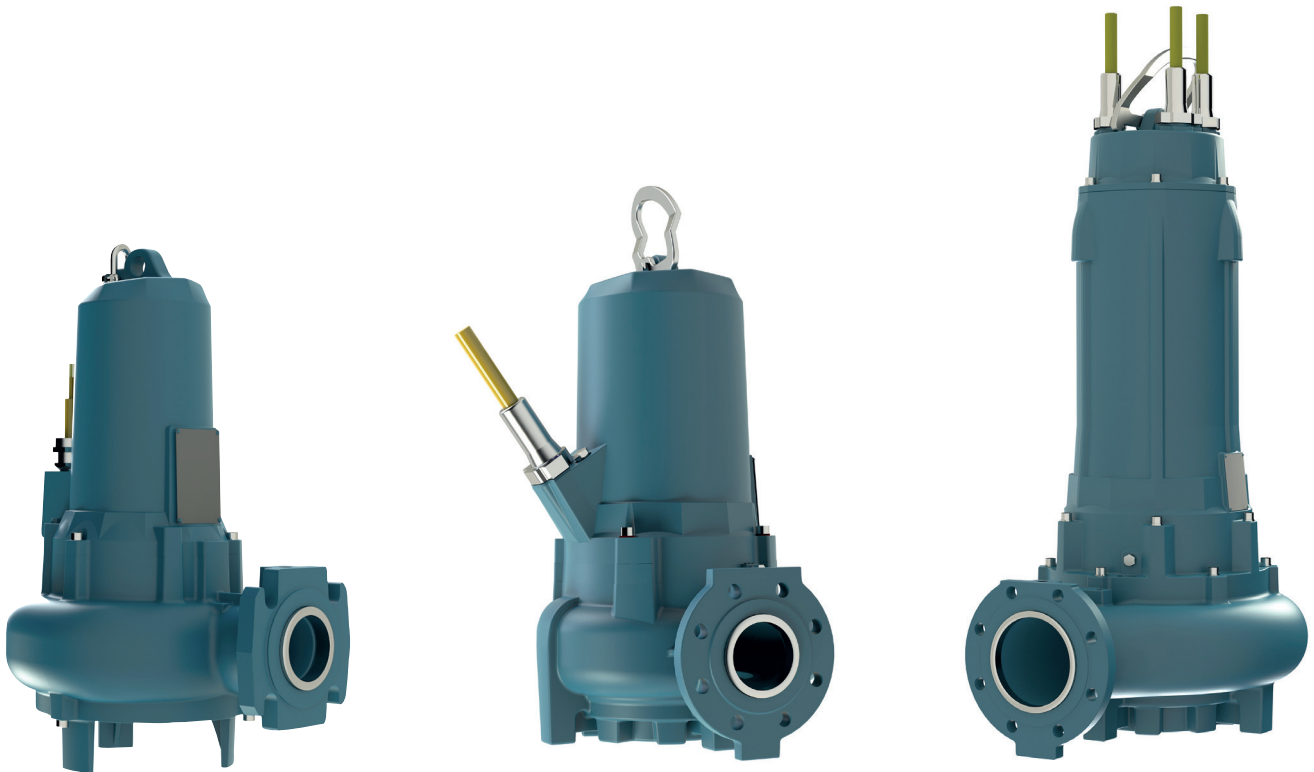


TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKV2 100-80L-0260	100	100	110	1183	553	16	200	788	200	335	400	167	330.7
GKV2 100-80I-0260	100	100	110	1183	553	16	200	788	200	335	400	167	330.9
GKV2 100-80H-0350	100	100	110	1183	553	16	200	788	200	335	400	167	354.1
GKV2 100-80G-0350	100	100	110	1183	553	16	200	788	200	335	400	167	354.2
GKV2 100-80F-0350	100	100	110	1183	553	16	200	788	200	335	400	167	354.3
GKV2 100-80E-0350	100	100	110	1183	553	16	200	788	200	335	400	167	349.1
GKV2 100-80D-0350	100	100	110	1183	553	16	200	788	200	335	400	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  
Impeller: cast iron  
Motor casing: cast iron  
Shaft: stainless steel  
Mechanical seal pumps with insulation class H  
- motor side: graphite/ceramic  
- pump side: silicon/ceramic carbide  
Mechanical seal pumps with insulation class F  
- motor side: stainless steel/graphite  
- pump side: Silicon carbide/silicon carbide

## 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					
GKC2 65-40G-0020	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKC2 65-40D-0020	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKC2 65-40A-0025	-	-	o	o	-	•	H	SAK 65-65-2	-	-	-
GKC6 80-75G-0015	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC6 80-75D-0015	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC6 80-75A-0015	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC4 80-75A-0029	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC4 80-80A-0058	#	#	•	•	•	-	H	SAK 80-80-2	APK 100	APCK 100	SOK100/N3
GKC4 80-80G-0037	#	#	•	•	•	-	H	SAK 80-80-2	APK 100	APCK 100	SOK100/N3
GKC4 80-75G-0016	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC4 80-75D-0021	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC4 80-80L-0029	#	#	•	•	•	-	H	SAK 80-80-2	APK 100	APCK 100	SOK100/N3
GKC4 80-80D-0046	#	#	•	•	•	-	H	SAK 80-80-2	APK 100	APCK 100	SOK100/N3
GKC2 80-80P-0165	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80L-0065	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80G-0065	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80E-0090	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80C-0125	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC2 80-80A-0125	#	#	•	•	•	-	H	SAK 80-80-2	APK 80	APCK 80	SOK80/N3
GKC6 100-80L-0015	#	#	•	•	•	-	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC6 100-80G-0015	#	#	•	•	•	-	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC6 100-80D-0018	#	#	•	•	•	-	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC6 100-80A-0018	#	#	•	•	•	-	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC4 100-80L-0029	#	#	•	•	•	-	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC4 100-80G-0037	#	#	•	•	•	-	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC4 100-80D-0046	#	#	•	•	•	-	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC4 100-80A-0058	#	#	•	•	•	-	H	SAK 100-100-2A	APK 100	APCK 100	SOK100/N3
GKC4 100-100L-0165	#	-	•	•	•	-	H	SAK 100-100-2	APK 150	APCK 150A	-
GKC4 100-100G-0193	#	-	•	•	•	-	H	SAK 100-100-2	APK 150	APCK 150A	-
GKC4 100-100D-0193	#	-	•	•	•	-	H	SAK 100-100-2	APK 150	APCK 150A	-
GKC4 100-100A-0230	#	-	•	•	•	-	H	SAK 100-100-2	APK 150	APCK 150A	-

\* = Standard      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  
- = Not present

## 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

## 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

**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				
GKC2 100-80C-0260	#	-	•	•	•	-	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKC2 100-80D-0260	#	-	•	•	•	-	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKC2 100-80G-0260	#	-	•	•	•	-	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKC2 100-80F-0260	#	-	•	•	•	-	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKC2 100-80E-0260	#	-	•	•	•	-	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKC2 100-80C-0350	#	-	•	•	•	-	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKC2 100-80D-0350	#	-	•	•	•	-	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKC2 100-80B-0350	#	-	•	•	•	-	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKC2 100-80A-0350	#	-	•	•	•	-	H	SAK 100-100-2A	APK 100A	APCK 100	-
GKC6 150-100G-0040	#	#	•	•	•	-	H	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC6 150-100D-0040	#	#	•	•	•	-	H	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC6 150-100A-0040	#	#	•	•	•	-	H	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC4 150-80D-0046	#	#	•	•	•	-	H	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC4 150-80A-0058	#	#	•	•	•	-	H	SAK 150-150-2	APK 150	APCK 150A	SOK150/N3
GKC4 150-100G-0075	#	#	•	•	•	-	H	SAK 150-150-3	APK 150	APCK 150A	SOK150/N3
GKC4 150-100D-0105	#	#	•	•	•	-	H	SAK 150-150-4	APK 150	APCK 150A	SOK150/N3
GKC4 150-100A-0125	#	#	•	•	•	-	H	SAK 150-150-5	APK 150	APCK 150A	SOK150/N3
GKC4 150-115L-0165	#	-	•	•	•	-	H	SAK 150-200-3	APK 150	APCK 150A	-
GKC4 150-115G-0193	#	-	•	•	•	-	H	SAK 150-200-3	APK 150	APCK 150A	-
GKC4 150-115D-0210	#	-	•	•	•	-	H	SAK 150-200-3	APK 150	APCK 150A	-
GKC4 150-115A-0260	#	-	•	•	•	-	H	SAK 150-200-3	APK 150	APCK 150A	-
GKC4 150-102L-0340	-	-	•	•	-	•	F	SAK 150-200-3	APK 150A	-	-
GKC4 150-102G-0420	-	-	•	•	-	•	F	SAK 150-200-3	APK 150A	-	-
GKC4 150-102D-0510	-	-	•	•	-	•	F	SAK 150-200-3	APK 150A	-	-
GKC4 150-102A-0620	-	-	•	•	-	•	F	SAK 150-200-3	APK 150A	-	-
GKC4 150-102L-0340R	\$	\$	•	•	-	•	F	SAK 150-200-3	-	APCK 150	SOK150-200
GKC4 150-102G-0420R	\$	\$	•	•	-	•	F	SAK 150-200-3	-	APCK 150	SOK150-200
GKC4 150-102D-0510R	\$	\$	•	•	-	•	F	SAK 150-200-3	-	APCK 150	SOK150-200
GKC4 150-102A-0620R	\$	\$	•	•	-	•	F	SAK 150-200-3	-	APCK 150	SOK150-225
GKC6 200-135G-0110	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKC6 200-135D-0150	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKC6 200-135A-0195	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKC8 250-163A-0210	-	-	•	•	-	•	F	SAK 250-300-3	APK 350	-	-
GKC6 250-163L-0250	-	-	•	•	-	•	F	SAK 250-300-3	APK 350	-	-
GKC6 250-163G-0340	-	-	•	•	-	•	F	SAK 250-300-3	APK 350	-	-
GKC6 250-163D-0420	-	-	•	•	-	•	F	SAK 250-300-3	APK 350	-	-
GKC6 250-163A-0510	-	-	•	•	-	•	F	SAK 250-300-3	APK 350	-	-
GKC8 250-163A-0210R	\$	\$	•	•	-	•	F	SAK 250-300-3	-	APCK 250A	SOK350-200
GKC6 250-163L-0250R	\$	\$	•	•	-	•	F	SAK 250-300-3	-	APCK 250A	SOK350-200
GKC6 250-163G-0340R	\$	\$	•	•	-	•	F	SAK 250-300-3	-	APCK 250A	SOK350-200
GKC6 250-163D-0420R	\$	\$	•	•	-	•	F	SAK 250-300-3	-	APCK 250A	SOK350-200
GKC6 250-163A-0510R	\$	\$	•	•	-	•	F	SAK 250-300-3	-	APCK 250A	SOK350-250
GKC4 250-163M-0820	-	-	•	•	-	•	F	SAK 250-300-3A	APK 350	-	-
GKC4 250-163L-01000	-	-	•	•	-	•	F	SAK 250-300-3A	APK 350	-	-
GKC4 250-163H-01000	-	-	•	•	-	•	F	SAK 250-300-3A	APK 350	-	-
GKC4 250-163G-01200	-	-	•	•	-	•	F	SAK 250-300-3A	APK 350	-	-
GKC4 250-163E-01450	-	-	•	•	-	•	F	SAK 250-300-3A	APK 350	-	-
GKC4 250-163T-01450	-	-	•	•	-	•	F	SAK 250-300-3A	APK 350	-	-
GKC4 250-163B-01450	-	-	•	•	-	•	F	SAK 250-300-3A	APK 350	-	-
GKC4 250-163A-01800	-	-	•	•	-	•	F	SAK 250-300-3A	APK 350	-	-
GKC4 250-163M-0820R	\$	-	•	•	-	•	F	SAK 250-300-3A	-	APCK 250A	SOK350-250
GKC4 250-163L-01000R	\$	-	•	•	-	•	F	SAK 250-300-3A	-	APCK 250A	SOK350-280
GKC4 250-163H-01000R	\$	-	•	•	-	•	F	SAK 250-300-3A	-	APCK 250A	SOK350-280
GKC4 250-163G-01200R	\$	-	•	•	-	•	F	SAK 250-300-3A	-	APCK 250A	SOK350-280
GKC4 250-163E-01450R	\$	-	•	•	-	•	F	SAK 250-300-3A	-	APCK 250A	SOK350-280
GKC4 250-163T-01450R	\$	-	•	•	-	•	F	SAK 250-300-3A	-	APCK 250A	SOK350-280
GKC4 250-163B-01450R	\$	-	•	•	-	•	F	SAK 250-300-3A	-	APCK 250A	SOK350-280
GKC4 250-163A-01800R	\$	-	•	•	-	•	F	SAK 250-300-3A	-	APCK 250A	SOK350-315

• = Standard      ○ = 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  
 - = Not present      \$ = Version with cooling jacket

**Performance**

**n ≈ 2850 1/min**

Model	400V A	P2 kW	Q = Flow														
			m³/h l/min	0	10,8	14,4	18	21,5	25,2	28,8	32,4	36	43,2	50,4	57,6	64,8	72
					180	240	300	358	420	480	540	600	720	840	960	1080	1200
H (m) = Total head																	
GKC2 65-40G-0020	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-0020	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-0025	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	

**n ≈ 950 1/min**

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

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

Model	400V A	690V A	P2 kW	Q = Flow												
				m³/h l/min	0	18	21,5	28,8	36	54	72	90	108	126	144	162
						300	358	480	600	900	1200	1500	1800	2100	2400	2700
H (m) = Total head																
GKC2 80-80P-0165	31	17,9	16,5	62,9	-	-	53,6	51	45,9	42	38,8	35,6	32,1	28,1	22,9	
GKC2 80-80I-0065	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-0065	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-0090	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-0125	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-0125	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	-	

**n ≈ 950 1/min**

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

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

Model	400V A	690V A	P2 kW	Q = Flow													
				m³/h l/min	0	28,8	36	54	72	90	108	126	144	162	180	198	
						480	600	900	1200	1500	1800	2100	2400	2700	3000	3300	
H (m) = Total head																	
GKC2 100-80C-0260	44,6	25,7	26	73,7	-	-	56,2	53,1	49,9	46,6	-	-	-	-	-	-	-
GKC2 100-80D-0260	44,6	25,7	26	67,9	-	53,7	50,8	47,9	45	42,2	39,4	36,6	-	-	-	-	-
GKC2 100-80G-0260	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-0260	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-0260	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-0350	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-0350	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-0350	57,8	33,4	35	77	-	-	59,3	56,1	53,1	50,2	47,4	44,7	41,9	39	-	-	-
GKC2 100-80A-0350	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	400V A	P2 kW	Q = Flow																
			m³/h l/min	0	10,8	14,4	21,5	28,8	36	54	72	90	108	126	144	162	180	198	216
					180	240	358	480	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
H (m) = Total head																			
GKC6 150-100G-0040	9	4	9,3	-	-	-	-	7,3	6,8	6,2	5,7	5	4,4	3,7	3	-	-	-	-
GKC6 150-100D-0040	9	4	10,9	10	9,7	9,2	8,8	8,5	7,8	7,3	6,8	6,3	5,7	5,1	4,4	3,6	-	-	-
GKC6 150-100A-0040	9	4	12,4	-	-	-	-	9,8	9,1	8,6	8,1	7,6	7,1	6,5	5,9	5,2	4,5	3,7	-

**n ≈ 1450 1/min**

Model	400V A	400V A	690V A	P2 kW	Q = Flow																				
					m³/h l/min	0	54	72	90	108	126	144	162	180	198	216	234	252	270	288	324	360	450	540	630
							900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5400	6000	7500	9000	10500
H (m) = Total head																									
GKC4 150-80D-0046	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-0058	-	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-0075	-	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-0105	-	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-0125	-	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-0165	-	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-0193	-	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-0210	-	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-0260	-	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	-	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			
GKC4 150-102G-0420R	-	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			
GKC4 150-102D-0510R	-	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			
GKC4 150-102A-0620R	-	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			

**Performance**

**n ≈ 950 1/min**

Model	400V		690V		P2		Q = Flow															
	A	kW	HP	m³/h	l/min	0	90	108	126	144	162	180	216	252	288	324	360	450	540			
							1500	1800	2100	2400	2700	3000	3600	4200	4800	5400	6000	6000	7500	9000		
GKC6 200-135G-0110	23,8	13,7	11	15		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-0150	33	19,1	15	20		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-0195	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			

**n ≈ 750 1/min**

Model	400V		690V		P2		Q = Flow															
	A	kW	HP	m³/h	l/min	0	108	126	144	162	180	216	252	288	324	360	450	540	630	720	810	900
							1800	2100	2400	2700	3000	3600	4200	4800	5400	6000	7500	9000	10500	12000	13500	15000
GKC8 250-163A-0210	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	

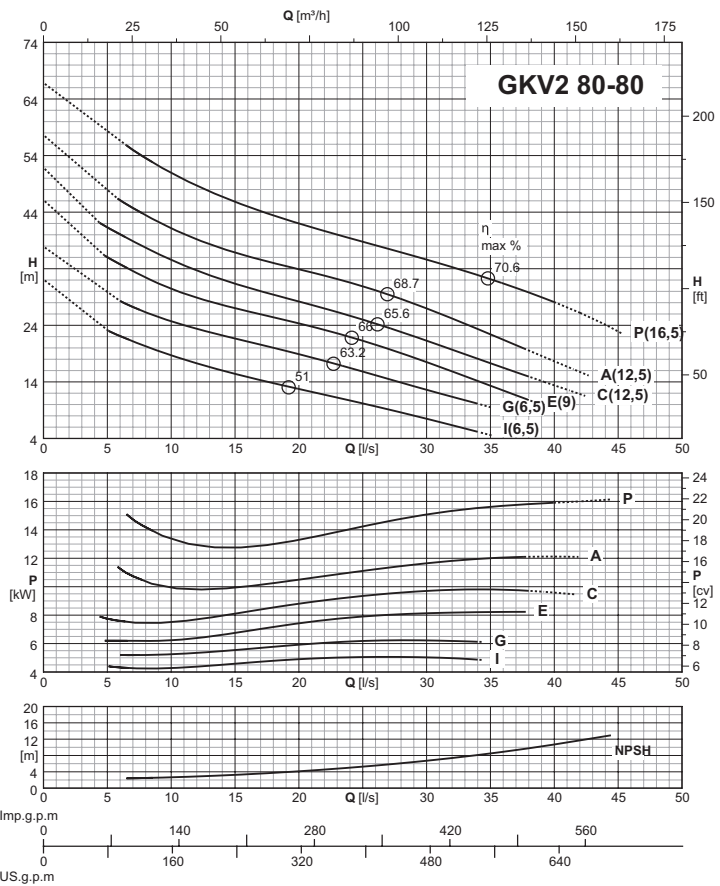
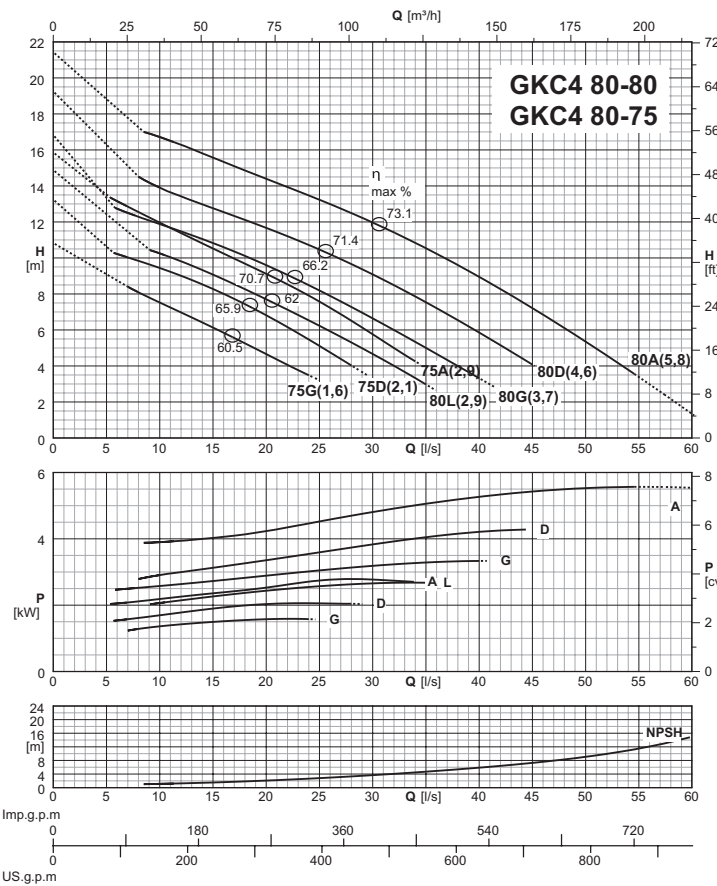
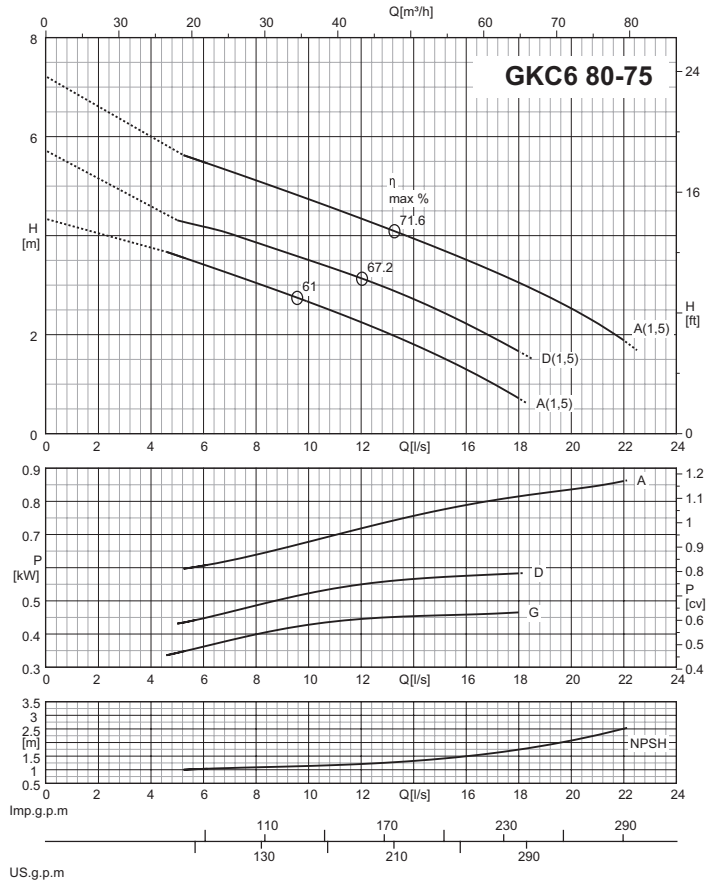
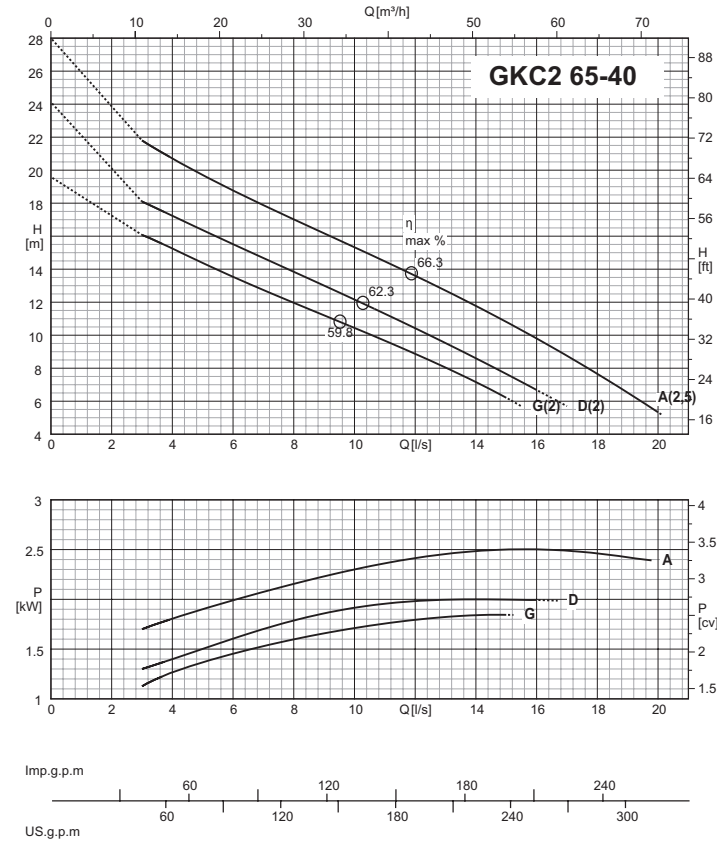
**n ≈ 950 1/min**

Model	400V		690V		P2		Q = Flow															
	A	kW	HP	m³/h	l/min	0	144	162	180	216	252	288	324	360	450	540	630	720	810	900	990	1080
							2400	2700	3000	3600	4200	4800	5400	6000	7500	9000	10500	12000	13500	15000	16500	18000
GKC6 250-163L-0250	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-0340	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-0420	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-0510	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	
GKC6 250-163L-0250R	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	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	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	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	

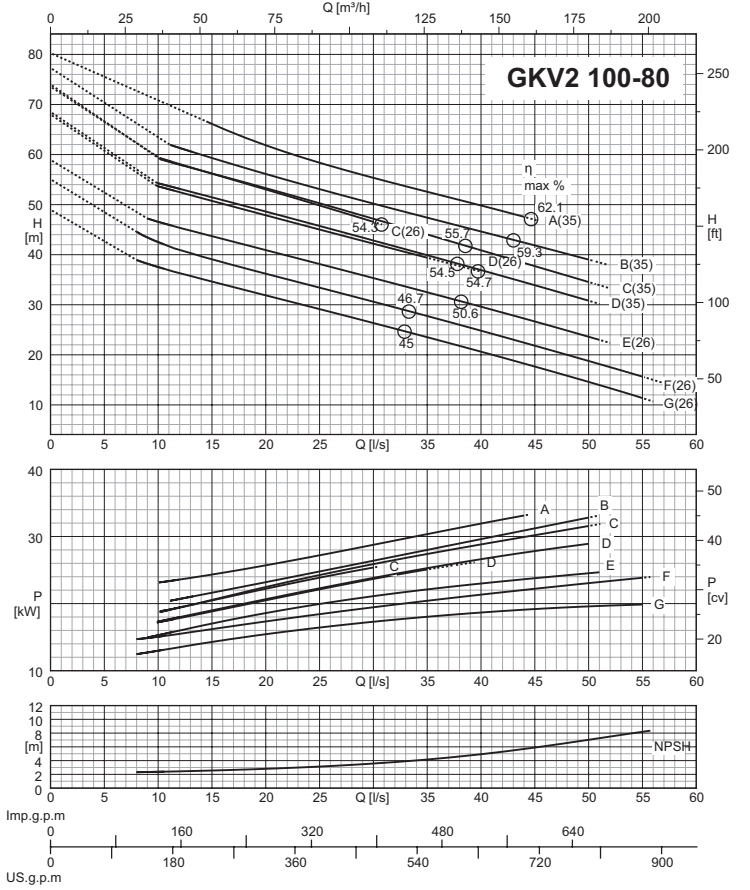
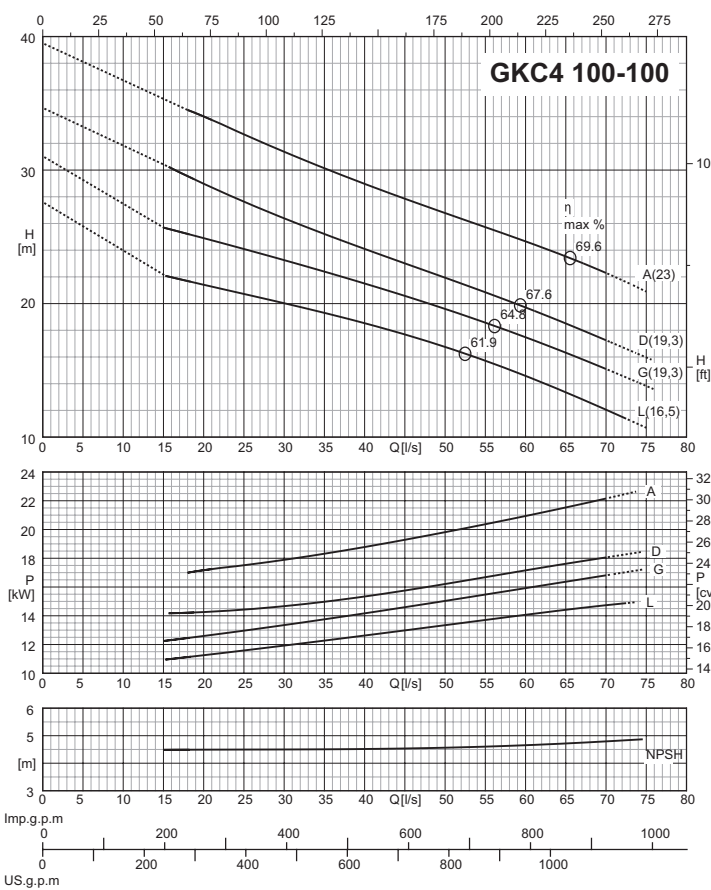
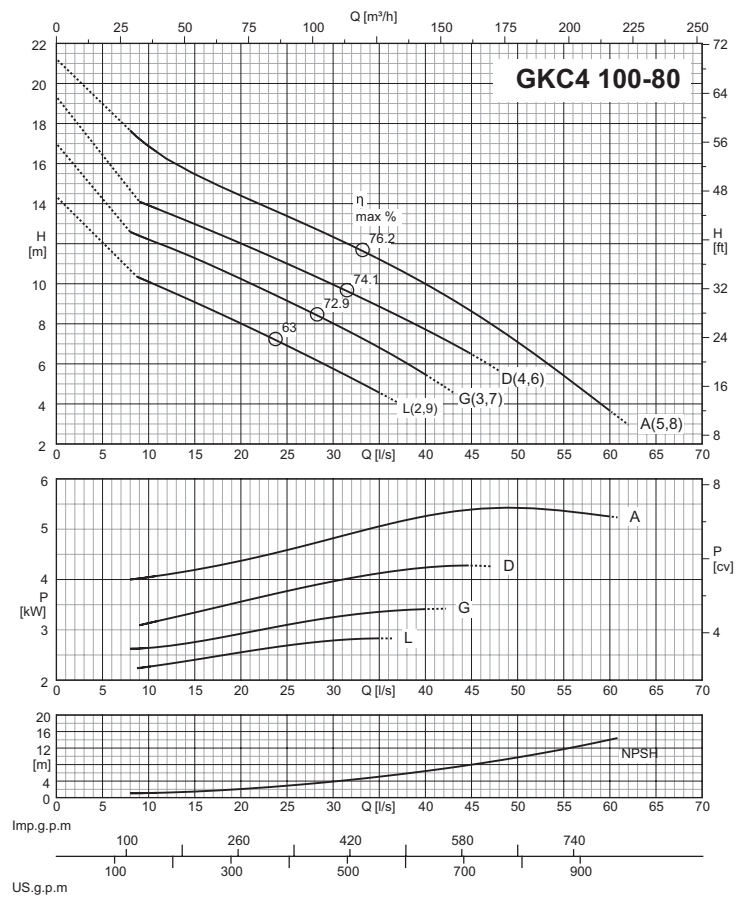
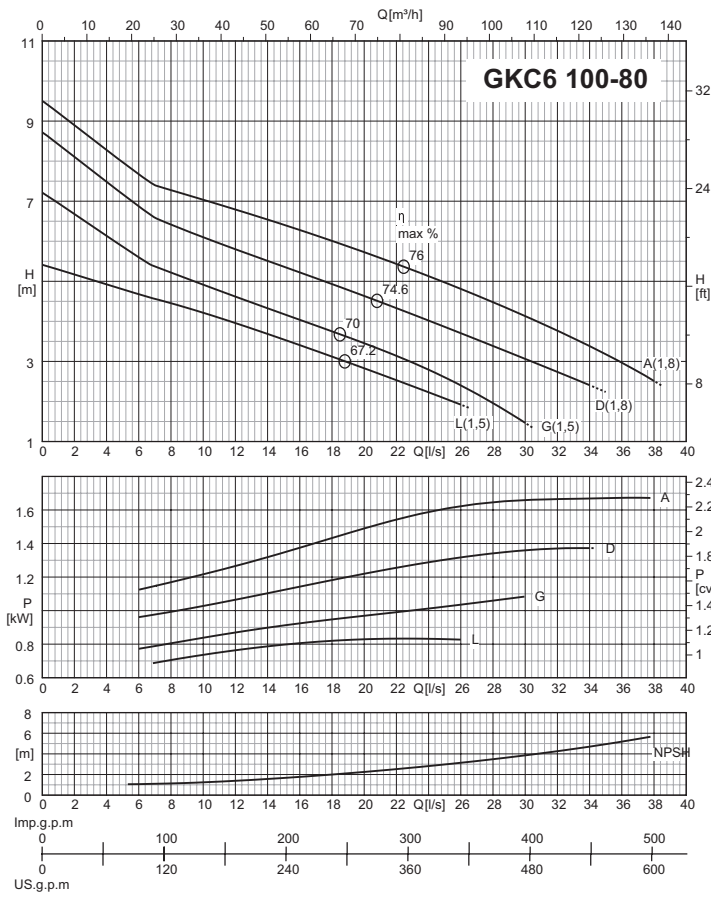
**n ≈ 1450 1/min**

Model	400V		690V		P2		Q = Flow											
	A	kW	HP	m³/h	l/min	0	324	360	450	540	630	720	810	900	990	1080	1188	
							5400	6000	7500	9000	10500	12000	13500	15000	16500	18000	19800	
GKC4 250-163M-0820	148	84,5	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-1000	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-1000	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-1200	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-1450	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-1450	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-1450	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-1800	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	148	84,5	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-1000R	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-1000R	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-1200R	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-1450R	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-1450R	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-1450R	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-1800R	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

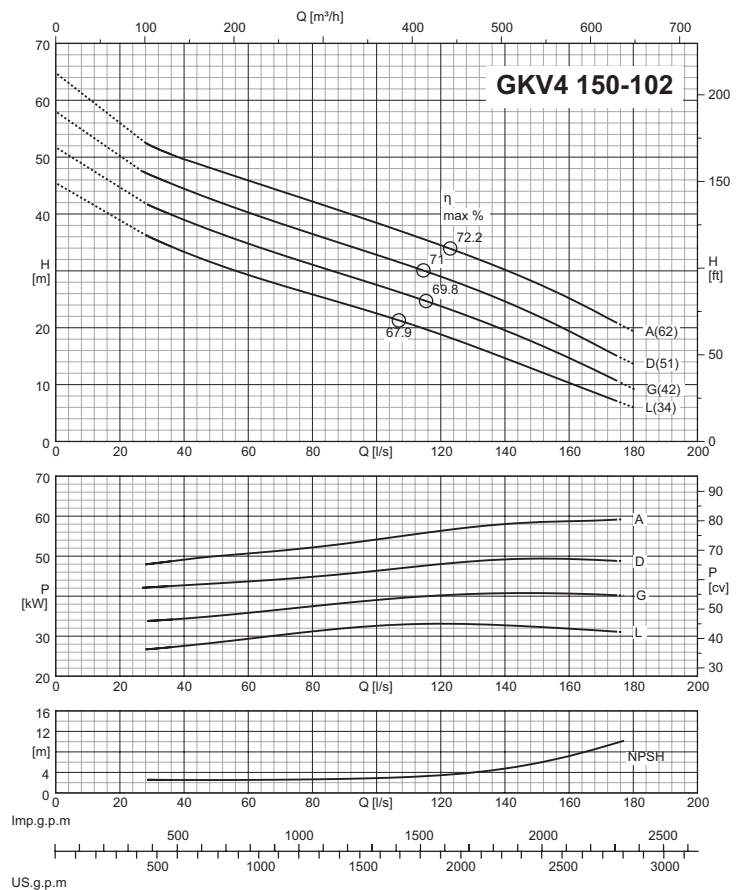
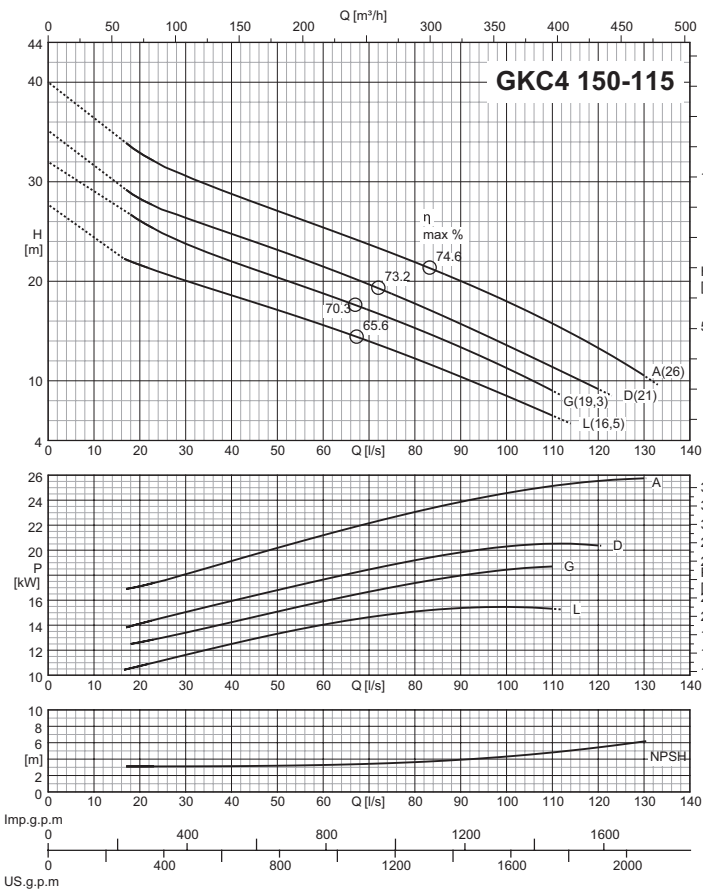
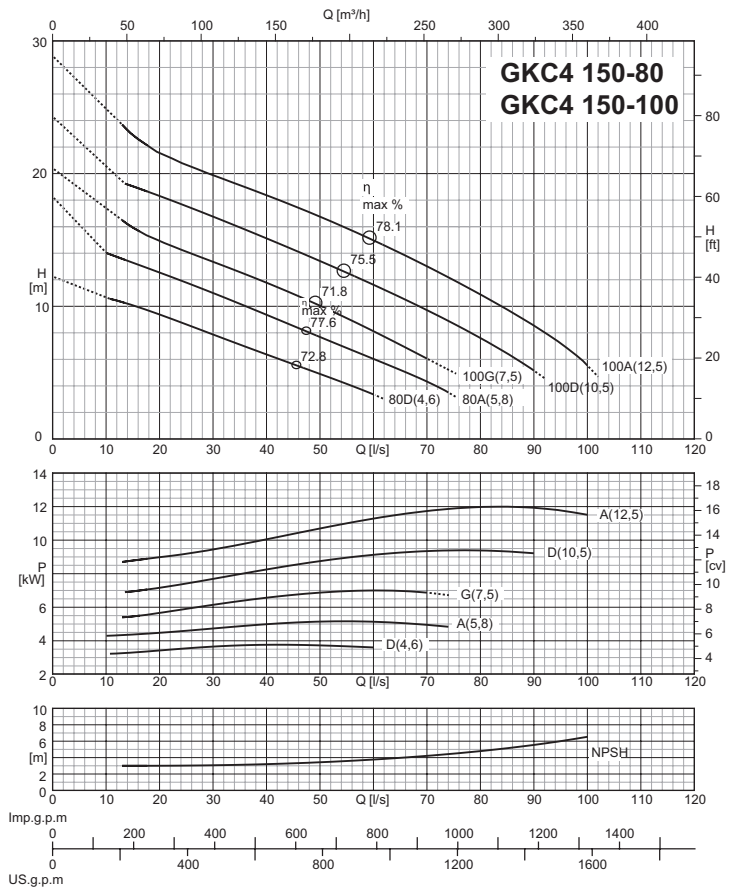
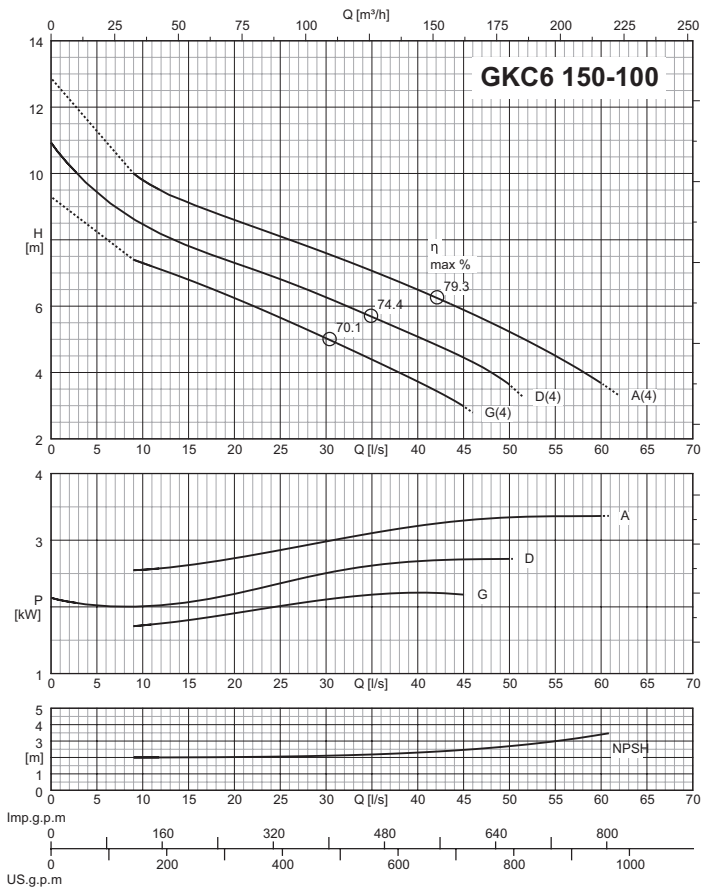


## Characteristic curves

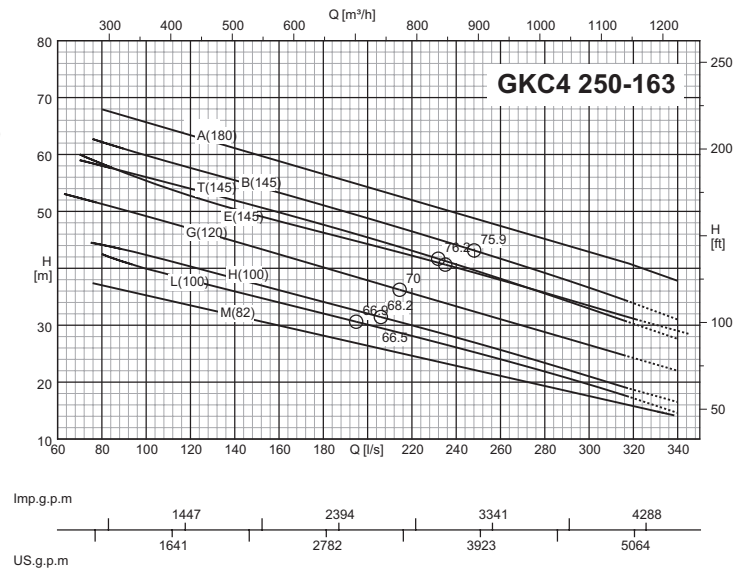
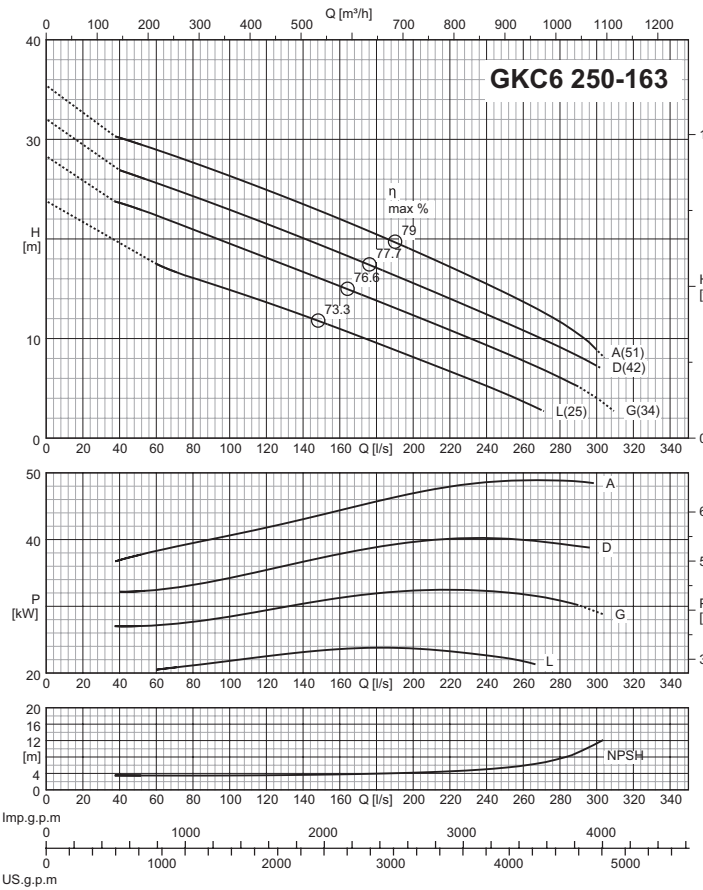
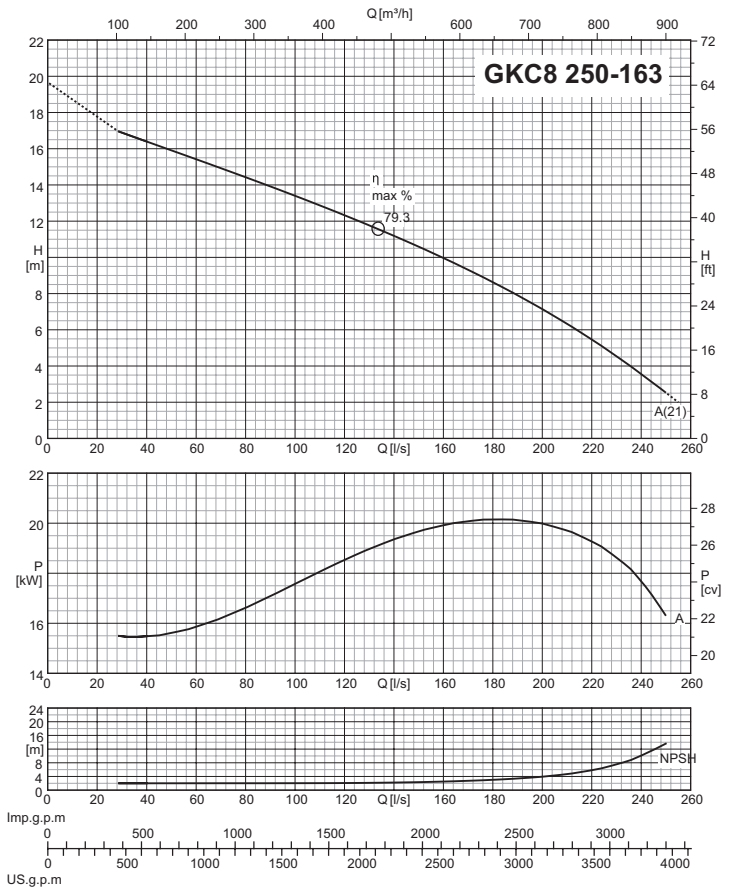
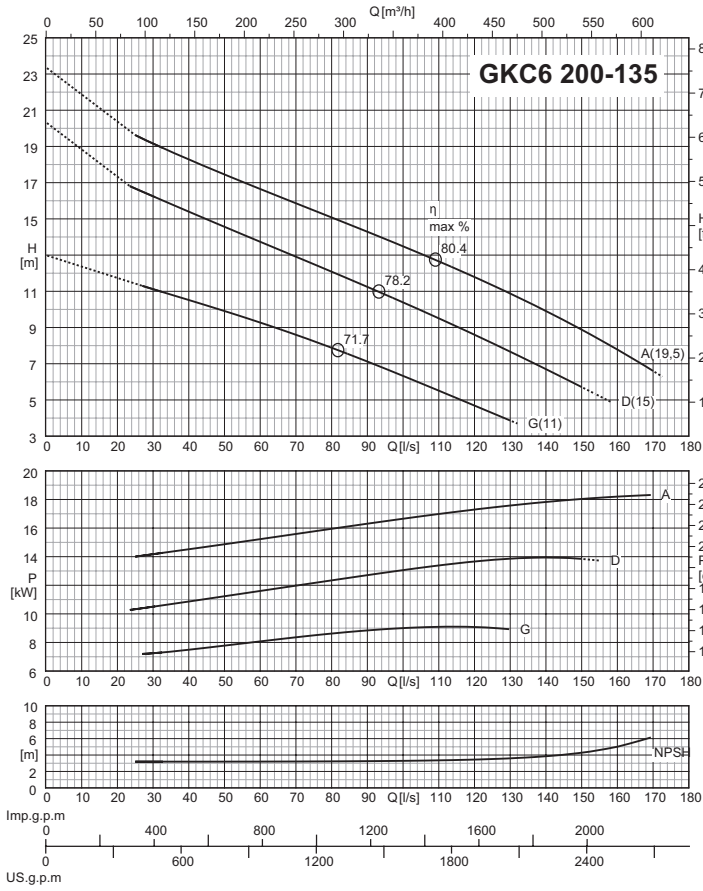




## Characteristic curves



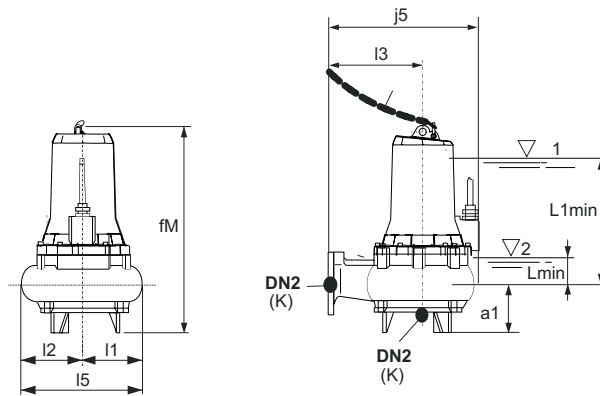
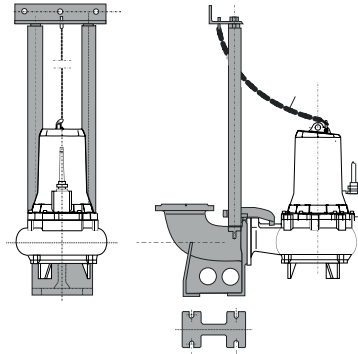
## Characteristic curves



Dimensions and weights

Duck foot coupling

SAK



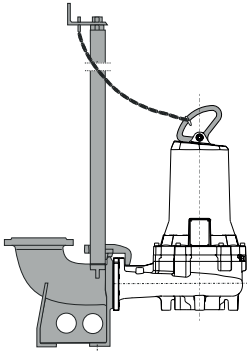
TYPE	ISO 228		mm									Kg Weight
	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC2 65-40G-0020	65	140	561.6	373	16	148	255	148	225	296	90	61
GKC2 65-40D-0020	65	140	561.6	373	16	148	255	148	225	296	90	60
GKC2 65-40A-0025	65	140	561.6	373	16	148	255	148	225	296	90	62

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 weights

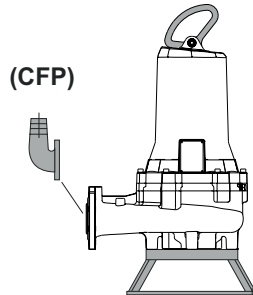
Duck foot coupling

SAK



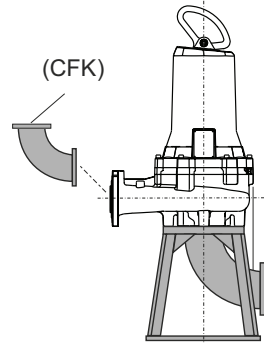
Submersible pump rest

APK



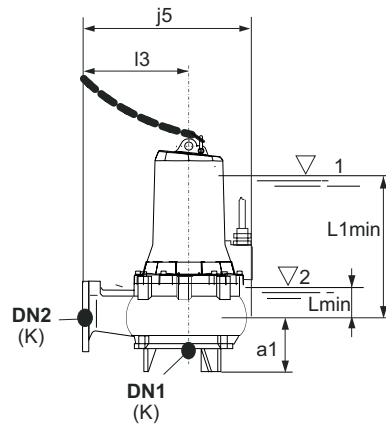
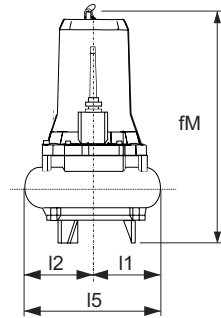
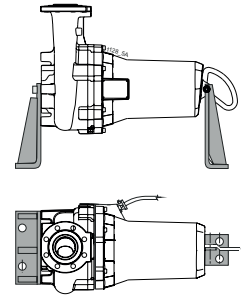
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC6 80-75G-0015	80	80	121	647.3	407	16	204.5	297	176	245	380.5	75	87.2
GKC6 80-75D-0015	80	80	121	647.3	407	16	204.5	297	176	245	380.5	75	87.1
GKC6 80-75A-0015	80	80	121	647.3	407	16	204.5	297	176	245	380.5	75	84.9
GKC4 80-75G-0016	80	80	121	647.3	407	16	204.5	297	176	245	380.5	75	91.3
GKC4 80-75D-0021	80	80	118	650.3	435	16	204.5	370	176	255	380.5	80	95.6
GKC4 80-75A-0029	80	80	121	647.3	407	16	204.5	297	176	245	380.5	75	93.4
GKC4 80-80G-0037	100	80	120.5	716.4	407	16	221	370	176	245	397	80	117.6
GKC4 80-80L-0029	100	80	120.5	647.3	407	16	204.5	322	176	245	380.5	80	103.2
GKC4 80-80D-0046	100	80	120.5	716.4	407	16	221	370	176	245	397	80	117.5
GKC4 80-80A-0058	100	80	120.5	716.4	407	16	221	370	176	245	397	80	126.6
GKC2 80-80P-0165	80	80	95	765.4	498	16	236.5	438	180	325	416.5	87	172.2
GKC2 80-80I-0065	80	80	95	763	498	16	225.5	438	180	325	405.5	87	137.9
GKC2 80-80G-0065	80	80	95	763	498	16	225.5	438	180	325	405.5	87	137
GKC2 80-80E-0090	80	80	95	763	498	16	225.5	438	180	325	405.5	87	142.5
GKC2 80-80C-0125	80	80	95	763	498	16	225.5	438	180	325	405.5	87	148.1
GKC2 80-80A-0125	80	80	95	763	498	16	225.5	438	180	325	405.5	87	148.2

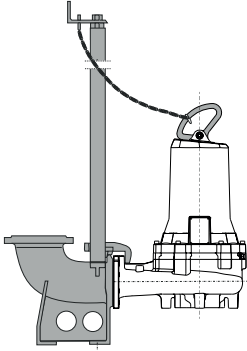
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

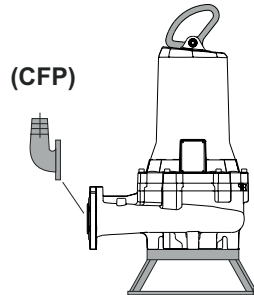
Duck foot coupling

SAK



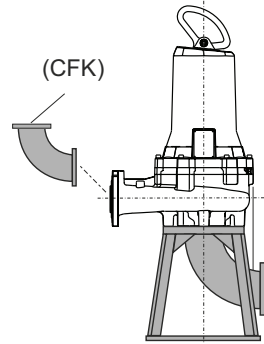
Submersible pump rest

APK



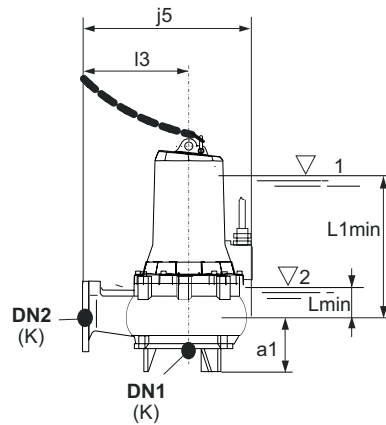
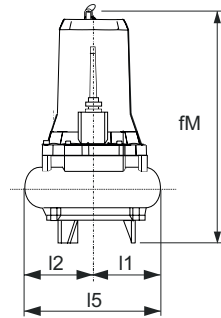
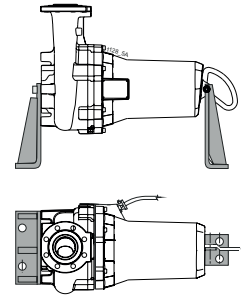
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC6 100-80L-0015	100	100	118	650.3	435	16	204.5	302	198	255	402.5	82	94.7
GKC6 100-80G-0015	100	100	118	650.3	435	16	204.5	302	198	255	402.5	82	94.7
GKC6 100-80D-0018	100	100	118	719.4	435	16	221	337	198	255	419	82	116
GKC6 100-80A-0018	100	100	118	719.4	435	16	221	337	198	255	419	82	116
GKC4 100-80L-0029	100	100	118	650.3	435	16	204.5	302	198	255	402.5	82	103.2
GKC4 100-80G-0037	100	100	118	719.4	435	16	221	337	198	255	419	82	117.6
GKC4 100-80D-0046	100	100	118	719.4	435	16	221	337	198	255	419	82	117.6
GKC4 100-80A-0058	100	100	118	719.4	435	16	221	337	198	255	419	82	126.6

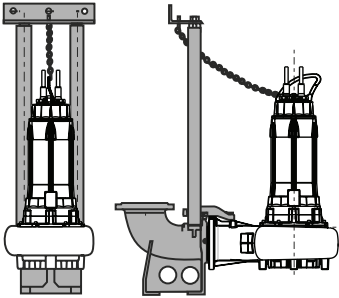
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

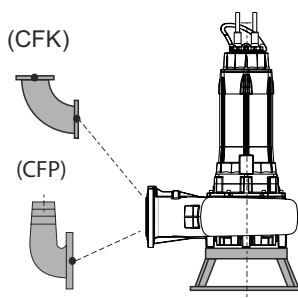
### Duck foot coupling

#### SAK



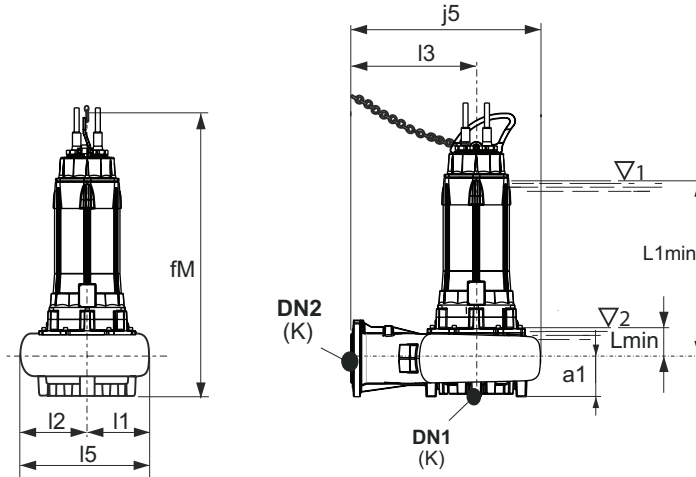
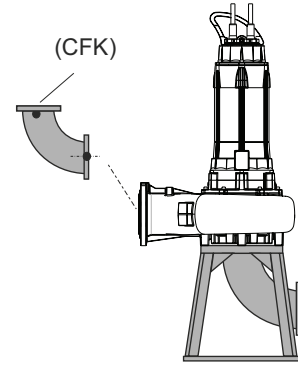
### Submersible pump rest

#### APK



### Dry chamber pump rest

#### APCK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC4 100-100L-0165	150	100	160	1240	551	16	224	795	262	308	486	174	350.1
GKC4 100-100G-0193	150	100	160	1240	551	16	224	795	262	308	486	174	371.9
GKC4 100-100D-0193	150	100	160	1240	551	16	224	795	262	308	486	174	372.8
GKC4 100-100A-0230	150	100	160	1240	551	16	224	795	262	308	486	174	380.7
GKC2 100-80C-0260	100	100	110	1183	553	16	200	788	200	335	400	167	343.9
GKC2 100-80D-0260	100	100	110	1183	553	16	200	788	200	335	400	167	343.7
GKC2 100-80G-0260	100	100	110	1183	553	16	200	788	200	335	400	167	342.3
GKC2 100-80F-0260	100	100	110	1183	553	16	200	788	200	335	400	167	342.4
GKC2 100-80E-0260	100	100	110	1183	553	16	200	788	200	335	400	167	342.9
GKC2 100-80C-0350	100	100	110	1183	553	16	200	788	200	335	400	167	367.1
GKC2 100-80D-0350	100	100	110	1183	553	16	200	788	200	335	400	167	366.9
GKC2 100-80B-0350	100	100	110	1183	553	16	200	788	200	335	400	167	367.4
GKC2 100-80A-0350	100	100	110	1183	553	16	200	788	200	335	400	167	368.1

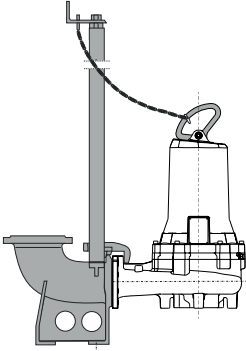
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

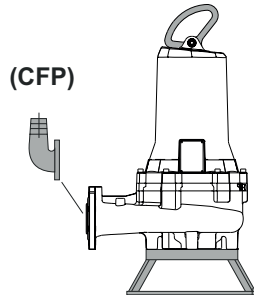
Duck foot coupling

SAK



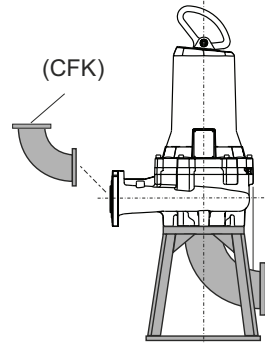
Submersible pump rest

APK



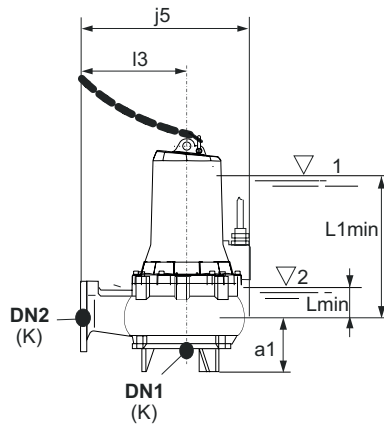
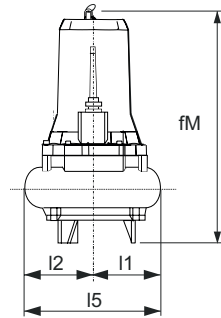
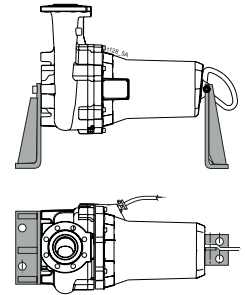
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC6 150-100G-0040	150	150	138	808	532	16	227	440	241	305	468	89	168.5
GKC6 150-100D-0040	150	150	138	808	532	16	227	440	241	305	468	89	168
GKC6 150-100A-0040	150	150	138	808	532	16	227	440	241	305	468	89	167.8
GKC4 150-80D-0046	150	150	138	752.9	567	16	227	350	238.5	340	465.5	95	155
GKC4 150-80A-0058	150	150	138	752.9	567	16	227	350	238.5	340	465.5	95	164.4
GKC4 150-100G-0075	150	150	138	808	532	16	227	440	241	305	468	89	177
GKC4 150-100D-0105	150	150	138	810.4	532	16	236	440	241	305	477	89	199.7
GKC4 150-100A-0125	150	150	138	810.4	532	16	236.5	440	241	305	477.5	89	199.5

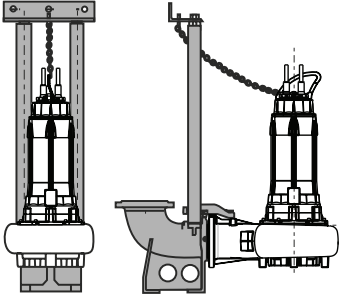
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

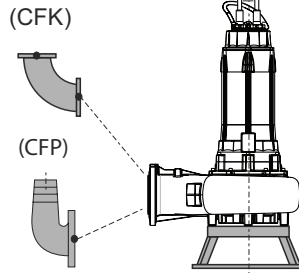
### Duck foot coupling

#### SAK



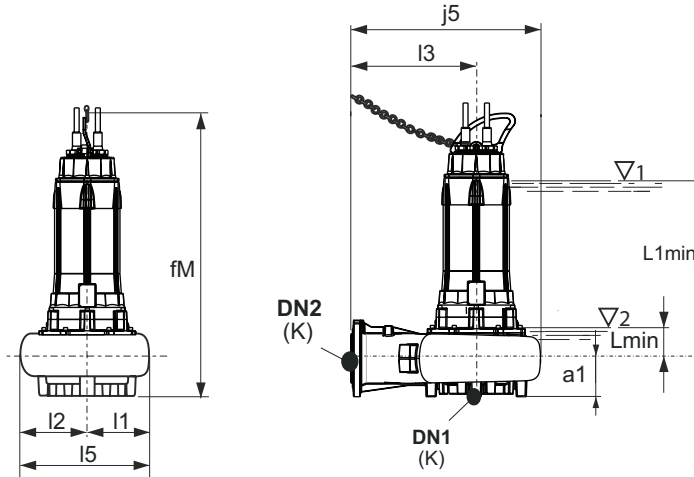
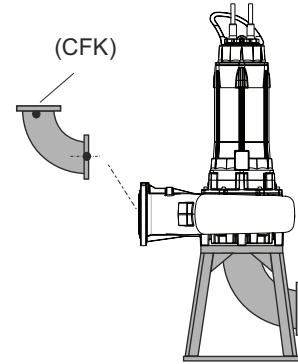
### Submersible pump rest

#### APK



### Dry chamber pump rest

#### APCK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC4 150-115L-0165	150	150	160	1240	658	16	229	795	278	405	507	174	358
GKC4 150-115G-0193	150	150	160	1240	658	16	229	795	278	405	507	174	379.9
GKC4 150-115D-0210	150	150	160	1240	658	16	229	795	278	405	507	174	404.6
GKC4 150-115A-0260	150	150	160	1240	658	16	229	795	278	405	507	174	388.7

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

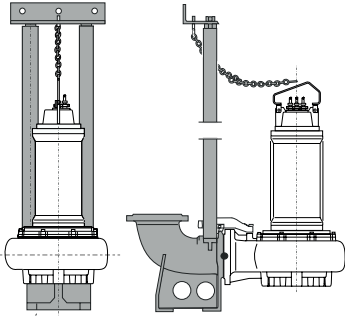
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)



## Dimensions and weights

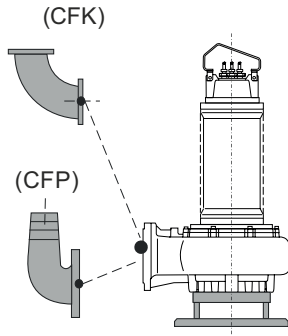
Duck foot coupling

SAK



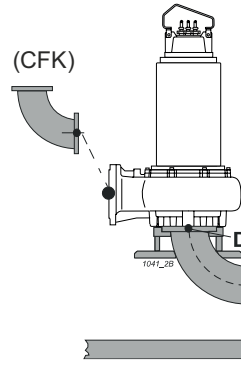
Submersible pump rest

APK



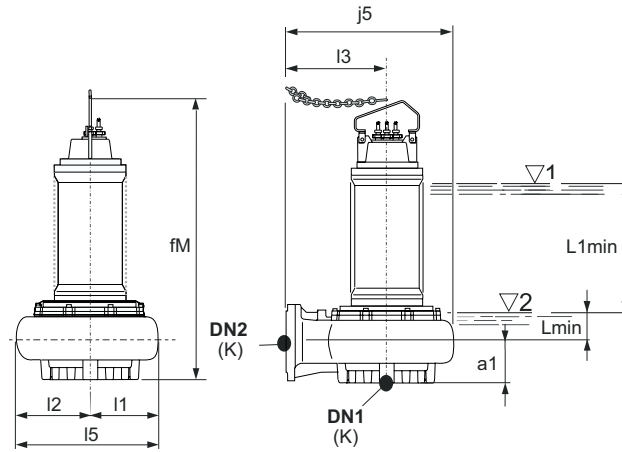
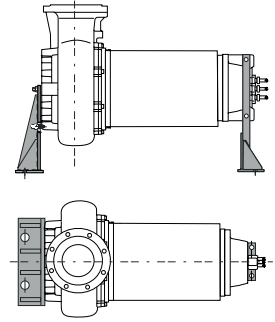
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC4 150-102L-0340	150	150	195	1559.5	825	16	305	900	365	500	670	155	567
GKC4 150-102G-0420	150	150	195	1559.5	825	16	305	900	365	500	670	155	677
GKC4 150-102D-0510	150	150	195	1559.5	825	16	305	900	365	500	670	155	607
GKC4 150-102A-0620	150	150	195	1581.5	825	16	305	900	365	500	670	155	812
GKC4 150-102L-0340R	150	150	195	1559.5	825	-	305	900	365	500	670	155	582
GKC4 150-102G-0420R	150	150	195	1559.5	825	-	305	900	365	500	670	155	692
GKC4 150-102D-0510R	150	150	195	1559.5	825	-	305	900	365	500	670	155	622
GKC4 150-102A-0620R	150	150	195	1581.5	825	-	305	900	365	500	670	155	832

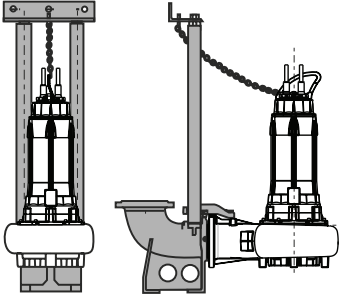
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

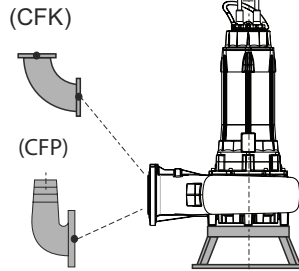
### Duck foot coupling

#### SAK



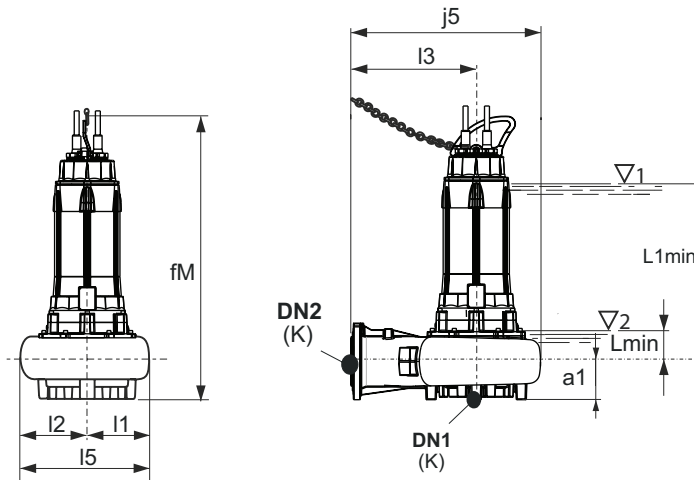
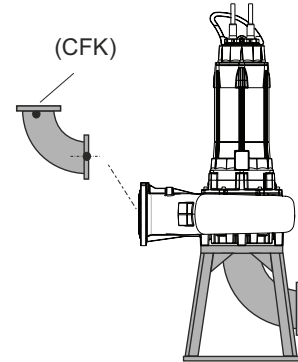
### Submersible pump rest

#### APK



### Dry chamber pump rest

#### APCK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	I1	L1min	I2	I5	I5	Lmin	
GKC6 200-135G-0110	200	200	185	1280	765	10	277	810	345	455	622	189	423.3
GKC6 200-135D-0150	200	200	185	1280	765	10	277	810	345	455	622	189	450.2
GKC6 200-135A-0195	200	200	185	1280	765	10	277	810	345	455	622	189	497.5

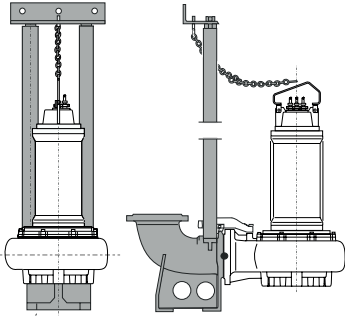
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

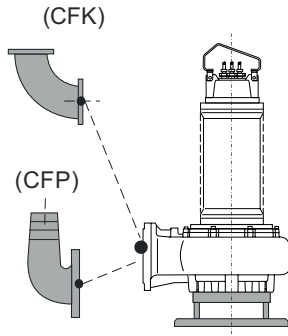
Duck foot coupling

SAK



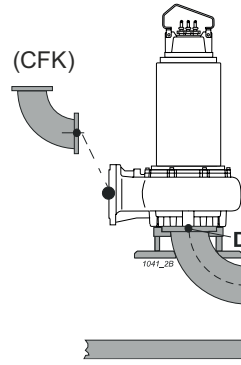
Submersible pump rest

APK



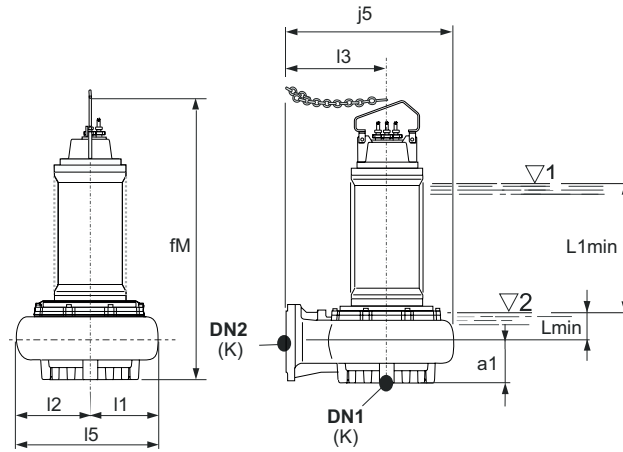
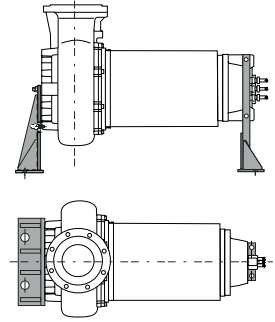
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



HL minimum level of submersibility

TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC8 250-163A-0210	250	250	220	1612.5	935	10	330	930	405	570	735	185	653
GKC8 250-163A-0210R	250	250	220	1612.5	935	-	330	930	405	570	735	185	668

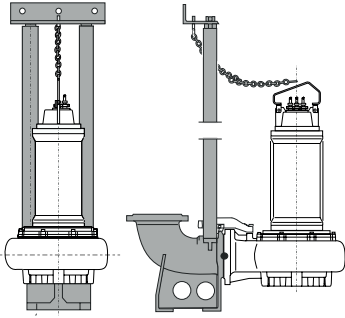
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

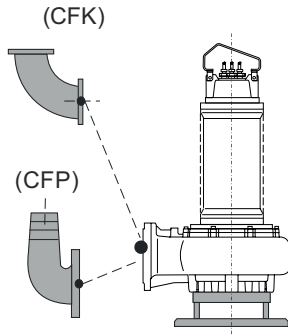
Duck foot coupling

SAK



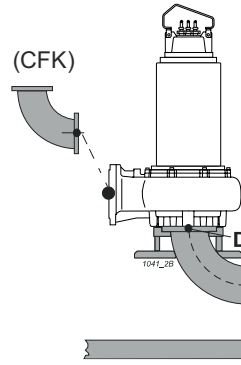
Submersible pump rest

APK



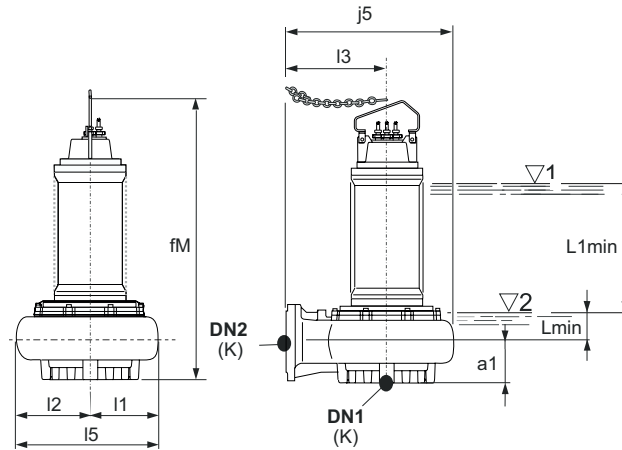
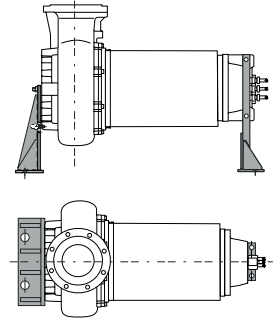
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC6 250-163L-0250	250	250	220	1612.5	935	10	330	930	405	570	735	185	717
GKC6 250-163G-0340	250	250	220	1612.5	935	10	330	930	405	570	735	185	653
GKC6 250-163D-0420	250	250	220	1612.5	935	10	330	930	405	570	735	185	744
GKC6 250-163A-0510	250	250	220	1644.5	935	10	330	930	405	570	735	185	885
GKC6 250-163L-0250R	250	250	220	1612.5	935	-	330	930	405	570	735	185	732
GKC6 250-163G-0340R	250	250	220	1612.5	935	-	330	930	405	570	735	185	668
GKC6 250-163D-0420R	250	250	220	1612.5	935	-	330	930	405	570	735	185	688
GKC6 250-163A-0510R	250	250	220	1644.5	935	-	330	930	405	570	735	185	1023

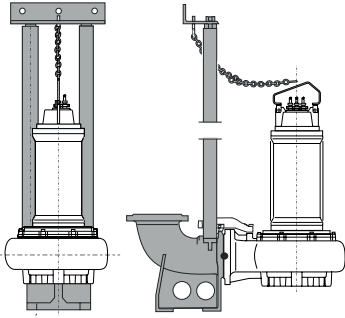
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

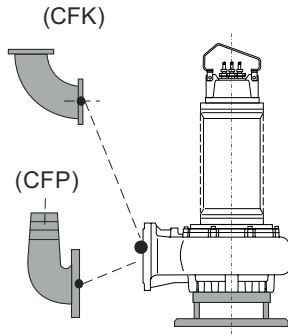
Duck foot coupling

SAK



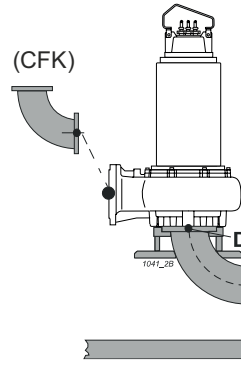
Submersible pump rest

APK



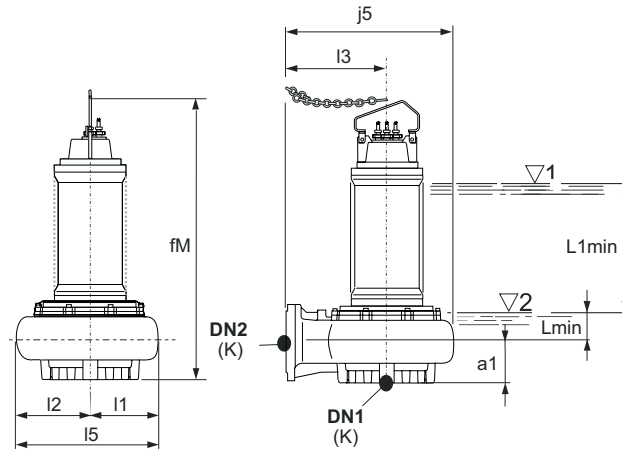
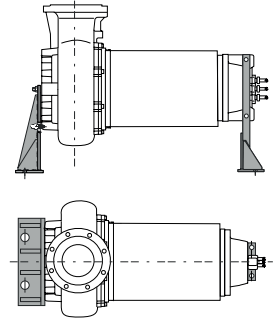
Dry chamber pump rest

APCK



Dry chamber pump support

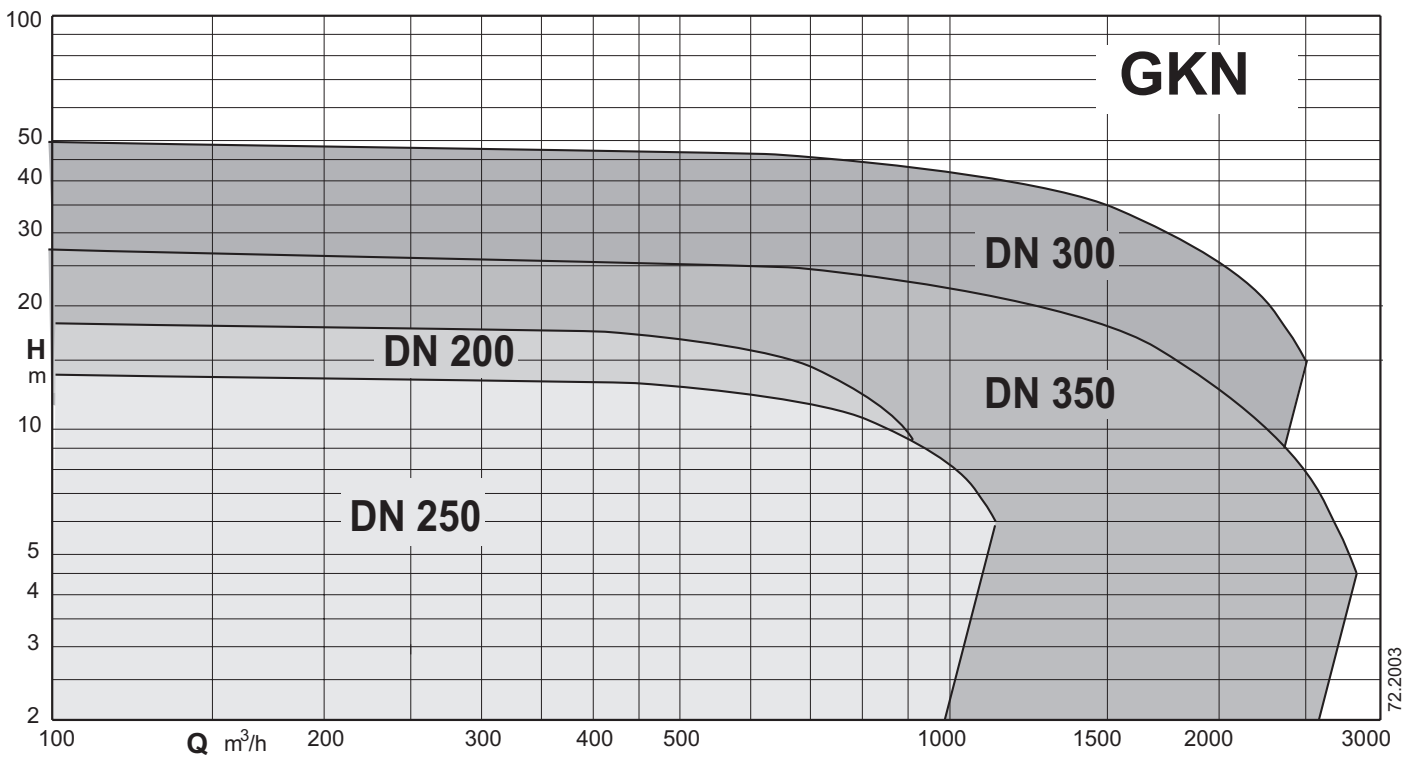
SOK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKC4 250-163M-0820	250	250	220	1666.5	935	10	330	1023	405	570	735	185	1077
GKC4 250-163L-1000	250	250	220	1880	935	10	330	1140	405	570	735	185	1078
GKC4 250-163H-1000	250	250	220	1880	935	10	330	1140	405	570	735	185	1355
GKC4 250-163G-1200	250	250	220	1880	935	10	330	1140	405	570	735	185	1416
GKC4 250-163E-1450	250	250	220	1880	935	10	330	1140	405	570	735	185	1468
GKC4 250-163T-1450	250	250	220	1880	935	10	330	1140	405	570	735	185	1469
GKC4 250-163B-1450	250	250	220	1880	935	10	330	1140	405	570	735	185	1880
GKC4 250-163A-1800	250	250	220	2116	935	10	330	1350	405	570	735	185	1872
GKC4 250-163M-0820R	250	250	220	1666.5	935	10	330	1023	405	570	735	185	1098
GKC4 250-163L-1000R	250	250	220	1880	935	10	330	1140	405	570	735	185	1311
GKC4 250-163H-1000R	250	250	220	1880	935	10	330	1140	405	570	735	185	1588
GKC4 250-163G-1200R	250	250	220	1880	935	10	330	1140	405	570	735	185	1650
GKC4 250-163E-1450R	250	250	220	1880	935	10	330	1140	405	570	735	185	1702
GKC4 250-163T-1450R	250	250	220	1880	935	10	330	1140	405	570	735	185	1703
GKC4 250-163B-1450R	250	250	220	1880	935	10	330	1140	405	570	735	185	1705
GKC4 250-163A-1800R	250	250	220	2116	935	10	330	1350	405	570	735	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 rates.  
 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  
 Impeller: cast iron  
 Motor casing: cast iron  
 Shaft: stainless steel  
 Mechanical seal pumps with insulation class H  
 - motor side: graphite/ceramic  
 - pump side: silicon/ceramic carbide  
 Mechanical seal pumps with insulation class F  
 - 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

## 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  
 R = With cooling jacket

## 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					
GKN6 200-100A-0075	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	SOK150/N3
GKN6 200-100G-0075	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	SOK150/N3
GKN6 200-100L-0075	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	SOK150/N3
GKN6 200-100A-0110	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKN6 200-100G-0110	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKN6 200-100L-0110	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKN4 200-100A-0260	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKN4 200-100D-0210	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKN4 200-100G-0193	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKN4 200-100L-0165	#	-	•	•	•	-	H	SAK 200-250-3	APK 150	APCK 200	-
GKN6 250-115A-0195	#	-	•	•	•	-	H	SAK 250-300-3	APK 250	APCK 250	-
GKN6 250-115D-0150	#	-	•	•	•	-	H	SAK 250-300-3	APK 250	APCK 250	-
GKN6 250-115I-0110	#	-	•	•	•	-	H	SAK 250-300-3	APK 250	APCK 250	-
GKN8 300-143A-0210	-	-	•	•	-	•	F	SAK 300-350-3	APK 350	-	-
GKN8 300-143B-0210R	\$	\$	•	•	-	•	F	SAK 300-350-3	-	APCK 300	SOK350-200
GKN8 300-143D-0170	-	-	•	•	-	•	F	SAK 300-350-3	APK 350	-	-
GKN8 300-143E-0170R	\$	\$	•	•	-	•	F	SAK 300-350-3	-	APCK 300	SOK350-200
GKN6 300-143A-0510	-	-	•	•	-	•	F	SAK 300-350-3	APK 350	-	-
GKN6 300-143B-0510R	\$	\$	•	•	-	•	F	SAK 300-350-3	-	APCK 300	SOK350-250
GKN6 300-143D-0420	-	-	•	•	-	•	F	SAK 300-350-3	APK 350	-	-
GKN6 300-143E-0420R	\$	\$	•	•	-	•	F	SAK 300-350-3	-	APCK 300	SOK350-200
GKN6 300-143G-0340	-	-	•	•	-	•	F	SAK 300-350-3	APK 350	-	-
GKN6 300-143H-0340R	\$	\$	•	•	-	•	F	SAK 300-350-3	-	APCK 300	SOK350-200
GKN6 300-143M-0250	-	-	•	•	-	•	F	SAK 300-350-3	APK 350	-	-
GKN6 300-143N-0250R	\$	\$	•	•	-	•	F	SAK 300-350-3	-	APCK 300	SOK350-200

• = 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	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-0420	–	–	•	•	–	•	F	SAK 350-400-3	APK 350	–	–
GKN8 350-143B-0420R	\$	\$	•	•	–	•	F	SAK 350-400-3	–	APCK 350	SOK350-250
GKN8 350-143G-0340	–	–	•	•	–	•	F	SAK 350-400-3	APK 350	–	–
GKN8 350-143H-0340R	\$	\$	•	•	–	•	F	SAK 350-400-3	–	APCK 350	SOK350-225
GKN8 350-143O-0250	–	–	•	•	–	•	F	SAK 350-400-3	APK 350	–	–
GKN8 350-143P-0250R	\$	\$	•	•	–	•	F	SAK 350-400-3	–	APCK 350	SOK350-225
GKN8 350-143S-0210	–	–	•	•	–	•	F	SAK 350-400-3	APK 350	–	–
GKN8 350-143T-0210R	\$	\$	•	•	–	•	F	SAK 350-400-3	–	APCK 350	SOK350-200
GKN6 350-164S-0510	–	–	•	•	–	•	F	SAK 350-400-3A	APK 350	–	–
GKN6 350-164T-0510R	\$	\$	•	•	–	•	F	SAK 350-400-3A	–	APCK 350	SOK350-250
GKN6 350-164V-0420	–	–	•	•	–	•	F	SAK 350-400-3A	APK 350	–	–
GKN6 350-164W-0420R	\$	\$	•	•	–	•	F	SAK 350-400-3A	–	APCK 350	SOK350-200
GKN4 300-143A-01800	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143B-01800R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-315
GKN4 300-143D-01450	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143E-01450R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-280
GKN4 300-143G-01200	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143H-01200R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-280
GKN4 300-143I-01000	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143L-01000R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-280
GKN4 300-143M-0900	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143N-0820	–	–	•	•	–	•	F	SAK 300-350-3A	APK 350	–	–
GKN4 300-143P-0900R	•	–	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-250
GKN4 300-143Q-0820R	\$	\$	•	•	–	•	F	SAK 300-350-3A	–	APCK 300	SOK350-250
GKN6 350-164A-01000	–	–	•	•	–	•	F	SAK 350-400-3A	APK 350	–	–
GKN6 350-164B-01000R	\$	\$	•	•	–	•	F	SAK 350-400-3A	–	APCK 350	SOK350-280
GKN6 350-164G-0820	–	–	•	•	–	•	F	SAK 350-400-3A	APK 350	–	–
GKN6 350-164H-0820R	\$	\$	•	•	–	•	F	SAK 350-400-3A	–	APCK 350	SOK350-280
GKN6 350-164O-0600	–	–	•	•	–	•	F	SAK 350-400-3A	APK 350	–	–
GKN6 350-164P-0600R	\$	\$	•	•	–	•	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	400V	690V	P2	Q = Flow															
				m³/h	0														
				l/min	108	126	144	162	180	216	252	288	324	360	450	540			
					1800	2100	2400	2700	3000	3600	4200	4800	5400	6000	7500	9000			
	A		kW		H (m) = Total head														
GKN6 200-100L-0075	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-0075	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-0075	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-0110	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-0110	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-0110	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

Model	400V	690V	P2	Q = Flow													
				m³/h	0												
				l/min	216	252	288	324	360	450	540	630	720	810	900		
					3600	4200	4800	5400	6000	7500	9000	10500	12000	13500	15000		
	A		kW		H (m) = Total head												
GKN4 200-100L-0165	31,2	18	16,5		12,9	10	9,5	9	8,6	8,1	6,9	5,4	3,6	-	-	-	
GKN4 200-100G-0193	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-0210	39	22,5	21		20,1	-	14,9	14,2	13,6	13	11,6	10	8,1	6	3,8	-	
GKN4 200-100A-0260	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	400V	690V	P2	Q = Flow															
				m³/h	0														
				l/min	252	288	324	360	450	540	630	720	810	900	990	1080			
					4200	4800	5400	6000	7500	9000	10500	12000	13500	15000	16500	18000			
	A		kW		H (m) = Total head														
GKN6 250-115I-0110	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-0150	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-0195	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 ≈ 750 1/min

Model	400V	690V	P2	Q = Flow																	
				m³/h	0																
				l/min	288	360	450	540	630	720	810	900	990	1080	1170	1260	1350				
					4800	6000	7500	9000	10500	12000	13500	15000	16500	18000	19500	21000	22500				
	A		kW		H (m) = Total head																
GKN8 300-143D-0170	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-0210	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	2,2			
GKN8 300-143E-0170R	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-0210R	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	2,2			

### n ≈ 950 1/min

Model	400V	690V	P2	Q = Flow															
				m³/h	0														
				l/min	324	360	450	540	630	720	900	1080	1260	1440	1620	1800			
					5400	6000	7500	9000	10500	12000	15000	18000	21000	24000	27000	30000			
	A		kW		H (m) = Total head														
GKN6 300-143M-0250	50,0	28,6	25		11,6	9,6	9,4	9	8,5	8,1	7,6	6,4	5,1	3,5	2	-	-		
GKN6 300-143G-0340	68,5	39,1	34		16,4	-	12,7	12,4	12	11,5	10,9	9,6	8	6,2	4,3	-	-		
GKN6 300-143D-0420	84,7	48,4	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-0510	103	58,9	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	50,0	28,6	25		11,6	9,6	9,4	9	8,5	8,1	7,6	6,4	5,1	3,5	2	-	-		
GKN6 300-143H-0340R	68,5	39,1	34		16,4	-	12,7	12,4	12	11,5	10,9	9,6	8	6,2	4,3	-	-		
GKN6 300-143E-0420R	84,7	48,4	42		20,5	-	15,3	14,8	14,3	13,9	13,4	12,2	10,6	8,6	6,4	4,2	-		
GKN6 300-143B-0510R	103	58,9	51		23,7	-	18	17,5	17	16,6	16,1	14,8	13,1	11	8,8	6,5	4,1		

## Performance

### n ≈ 1450 1/min

Model	400V	690V	P2	Q = Flow																
				m³/h	0															
				l/min	540	630	720	810	900	990	1080	1170	1260	1440	1620	1800	1980	2160	2340	2520
A			H (m) = Total head																	
GKN4 300-143N-0820	148	84,5	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-0900	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-1000	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-1200	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-1450	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-1800	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	148	84,5	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-0900R	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-1000R	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-1200R	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-1450R	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-1800R	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

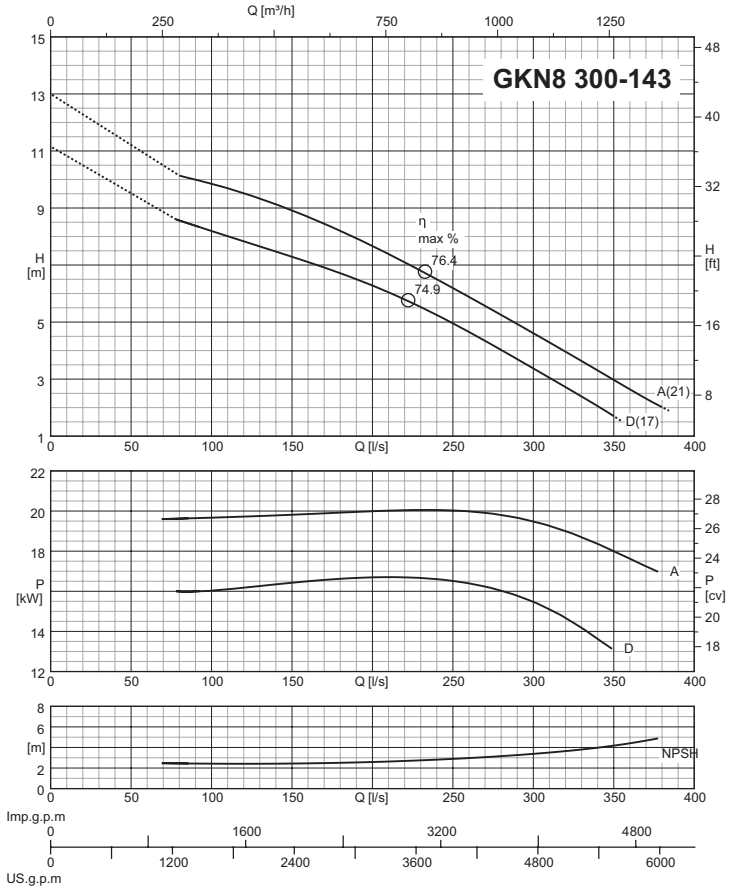
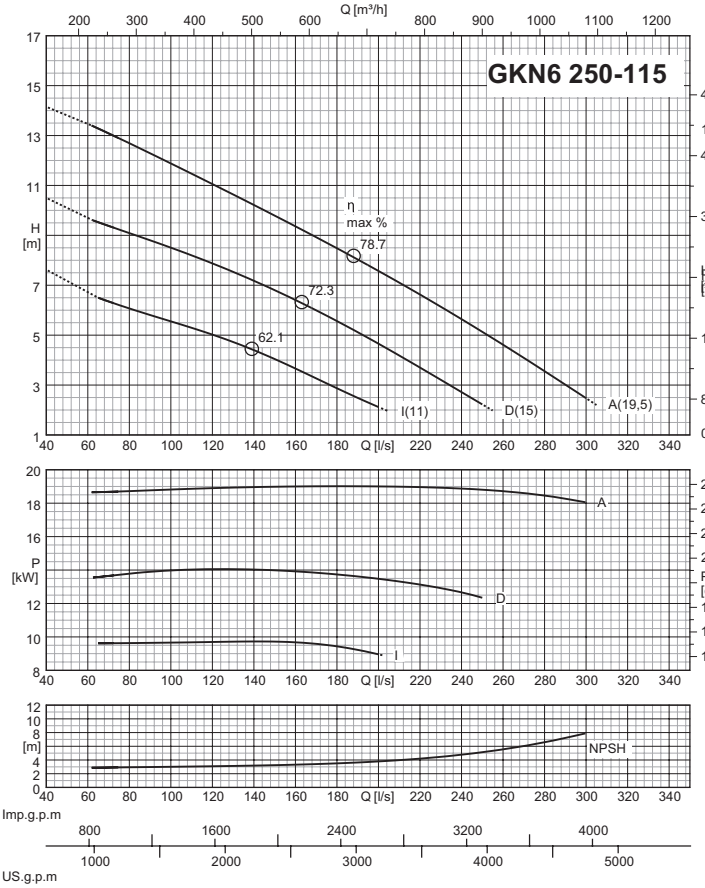
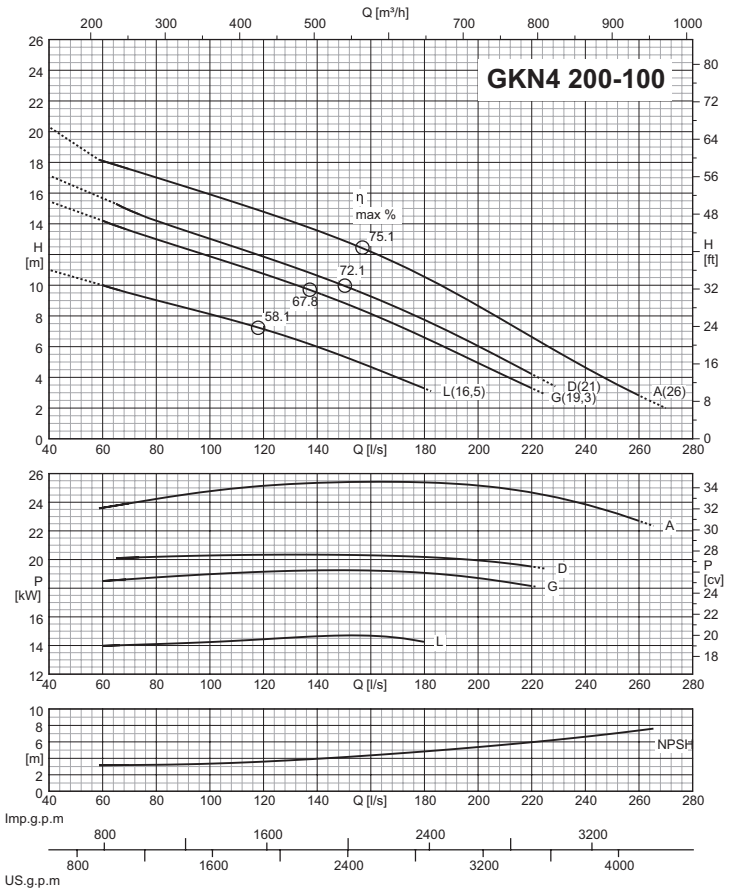
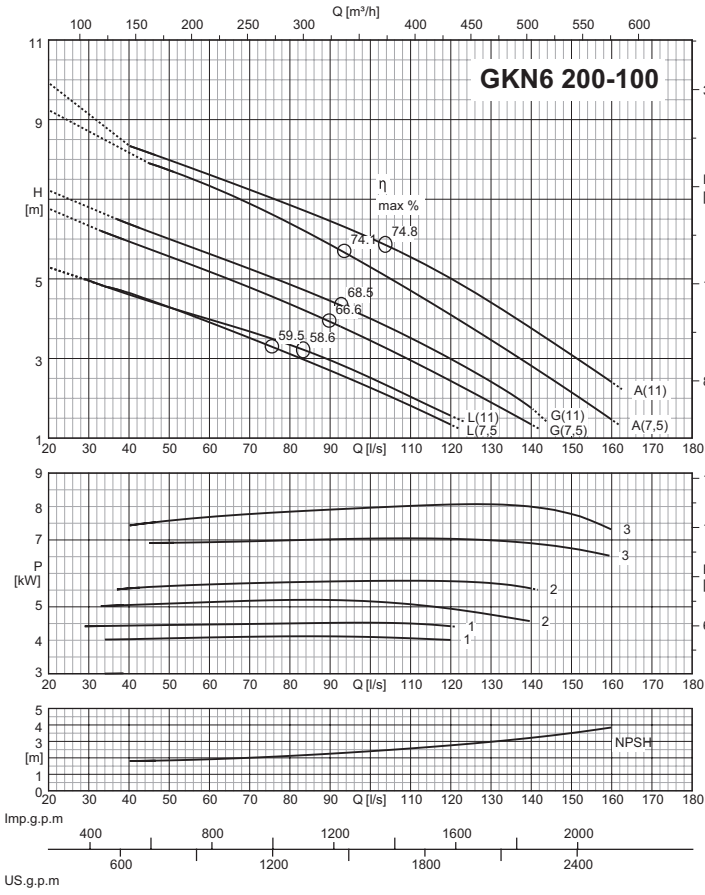
### n ≈ 750 1/min

Model	400V	690V	P2	Q = Flow																
				m³/h	0															
				l/min	252	270	360	450	540	630	720	900	1080	1260	1440	1620	1800	1980	2160	
A			H (m) = Total head																	
GKN8 350-143S-0210	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-0250	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-0340	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-0420	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	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	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	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	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	-

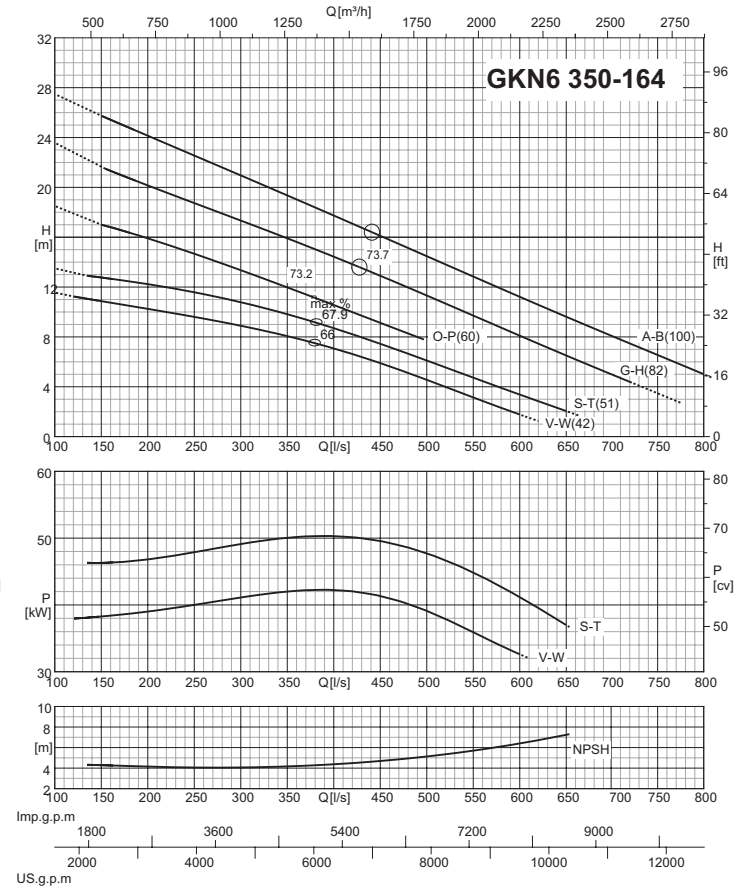
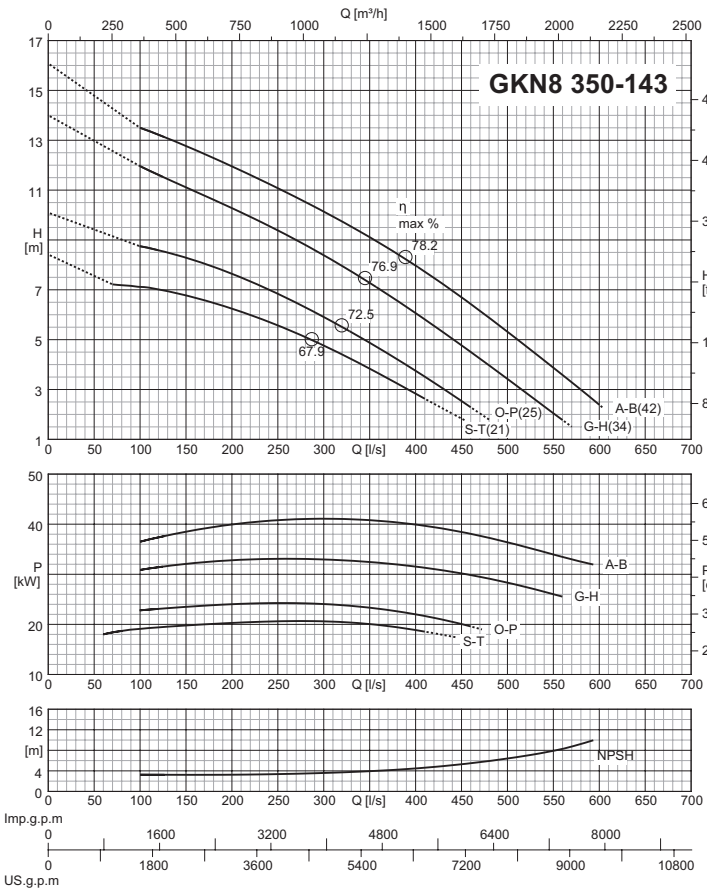
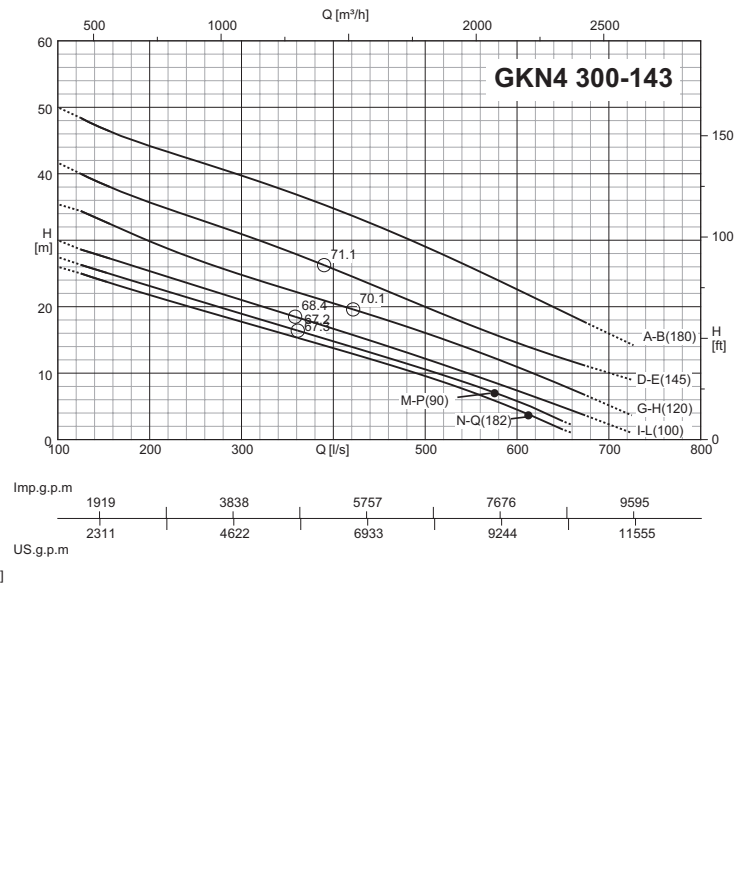
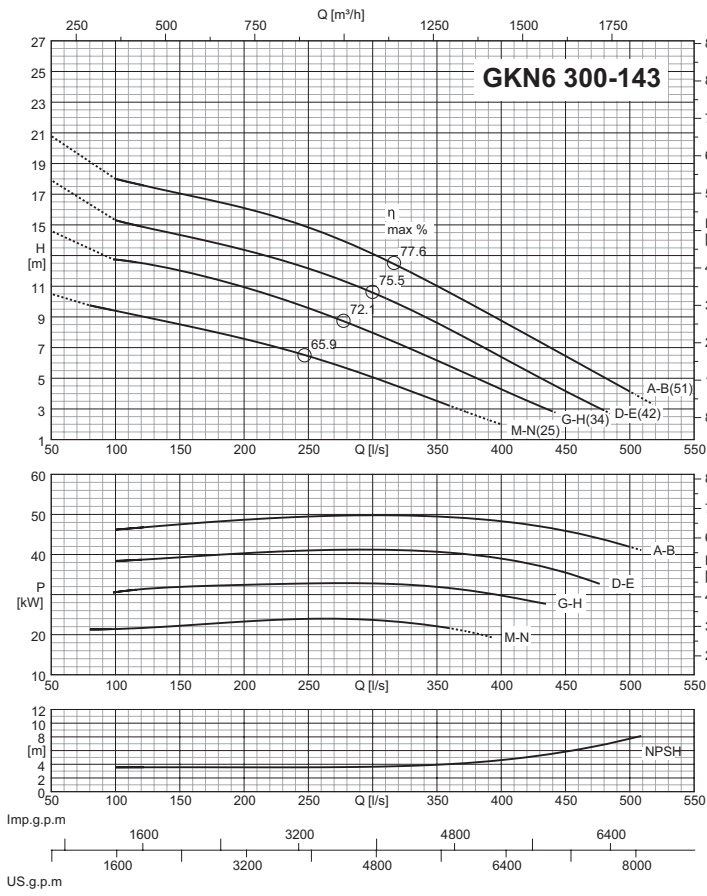
### n ≈ 950 1/min

Model	400V	690V	P2	Q = Flow																	
				m³/h	0																
				l/min	720	810	900	990	1080	1170	1260	1440	1620	1800	1980	2160	2340	2520	2700	2880	
A			H (m) = Total head																		
GKN6 350-164V-0420	84,7	48,4	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-0510	103	58,9	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	84,7	48,4	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 350-164T-0510R	103	58,9	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 350-164O-0600	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-0820	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-1000	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-0600R	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-0820R	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-1000R	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



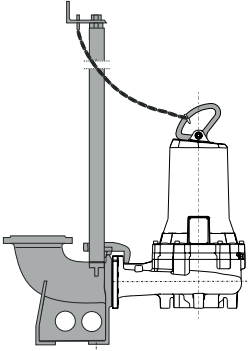
## Characteristic curves



## Dimensions and weights

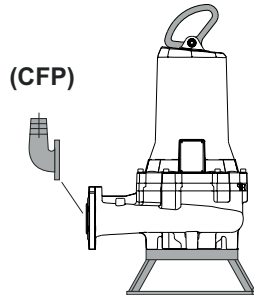
Duck foot coupling

SAK



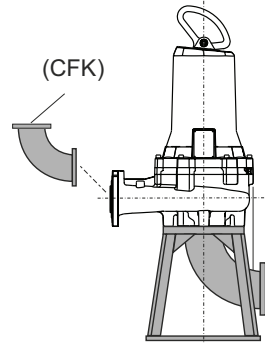
Submersible pump rest

APK



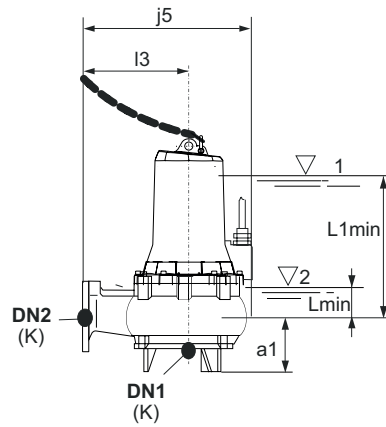
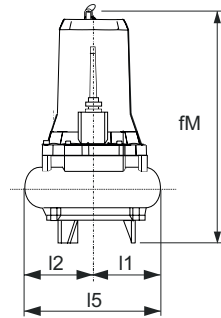
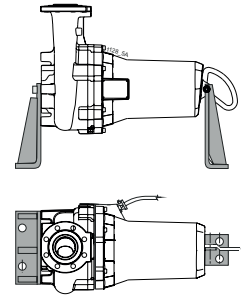
Dry chamber pump rest

APCK



Dry chamber pump support

SOK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKN6 200-100L-0075	200	200	170	846.9	840	10	240	446	340	550	580	120	235
GKN6 200-100G-0075	200	200	170	846.9	840	10	240	446	340	550	580	120	235.3
GKN6 200-100A-0075	200	200	170	846.9	840	10	240	446	340	550	580	120	236.7

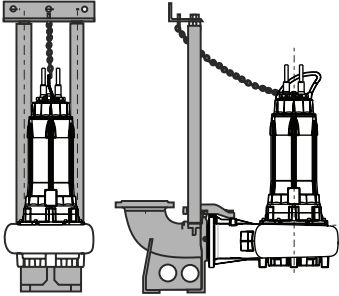
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

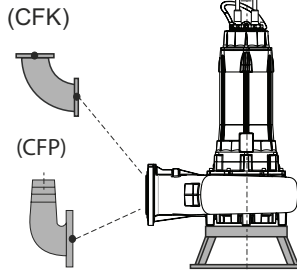
### Duck foot coupling

#### SAK



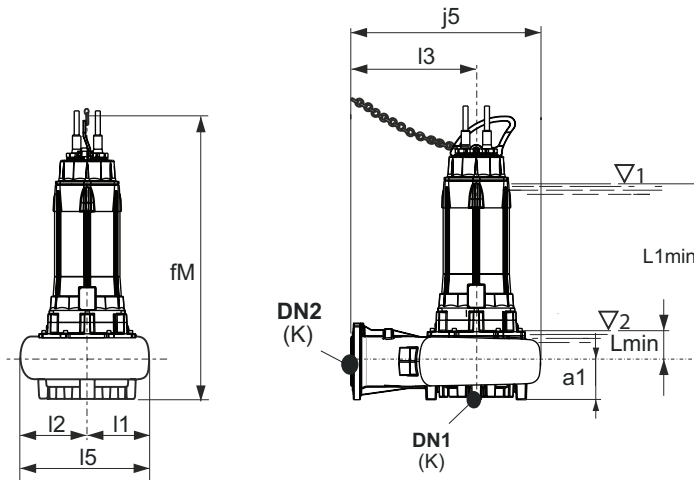
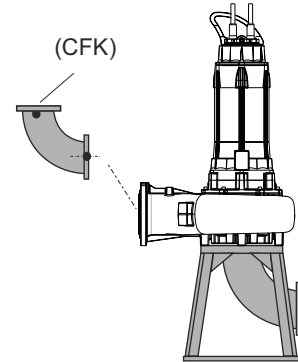
### Submersible pump rest

#### APK



### Dry chamber pump rest

#### APCK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	I1	L1min	I2	I5	I5	Lmin	
GKN6 200-100L-0110	200	200	170	1259	835	16	236	804	334	550	570	183	387.3
GKN6 200-100G-0110	200	200	170	1259	835	16	236	804	334	550	570	183	388
GKN6 200-100A-0110	200	200	170	1259	835	16	236	804	334	550	570	183	389.7

TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	I1	L1min	I2	I5	I5	Lmin	
GKN4 200-100L-0165	200	200	170	1259	835	16	236	804	334	550	570	183	374.1
GKN4 200-100G-0193	200	200	170	1259	835	16	236	804	334	550	570	183	396.6
GKN4 200-100D-0210	200	200	170	1259	835	16	236	804	334	550	570	183	421.2
GKN4 200-100A-0260	200	200	170	1259	835	16	236	804	334	550	570	183	404.9

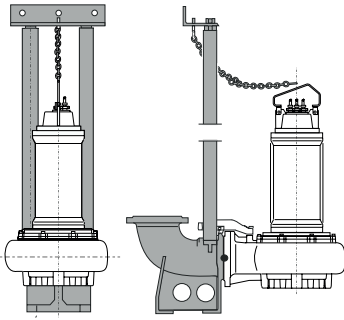
TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	I1	L1min	I2	I5	I5	Lmin	
GKN6 250-115I-0110	250	250	200	1305	843	10	282	820	404	500	686	199	412.8
GKN6 250-115D-0150	250	250	200	1305	843	10	282	820	404	500	686	199	477.8
GKN6 250-115A-0195	250	250	200	1305	843	10	282	820	404	500	686	199	524.3

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 weights

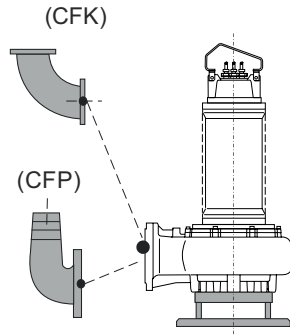
### Duck foot coupling

#### SAK



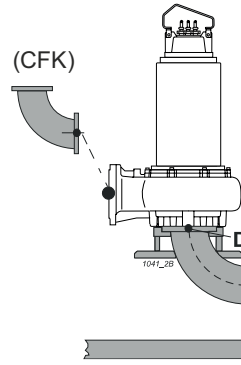
### Submersible pump rest

#### APK



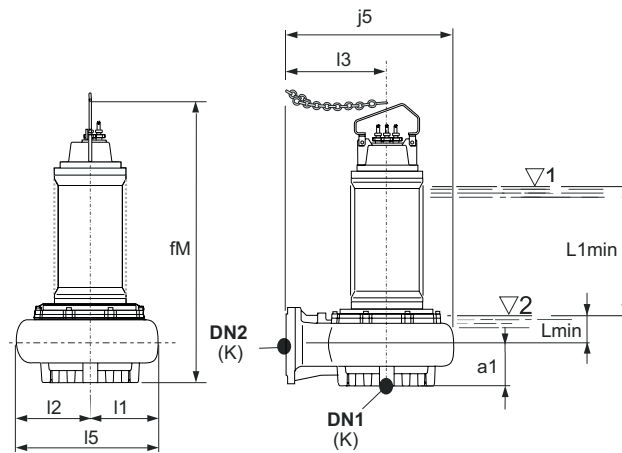
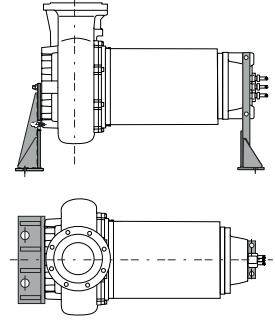
### Dry chamber pump rest

#### APCK



### Dry chamber pump support

#### SOK



TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKN8 300-143D-0170	300	300	230	1599.5	1030	10	340	910	480	620	820	165	656
GKN8 300-143A-0210	300	300	230	1599.5	1030	10	340	910	480	620	820	165	676
GKN8 300-143E-0170R	300	300	230	1599.5	1030	-	340	910	480	620	820	165	761
GKN8 300-143B-0210R	300	300	230	1599.5	1030	-	340	910	480	620	820	165	691

TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKN6 300-143M-0250	300	300	230	1599.5	1030	10	340	910	480	620	820	165	656
GKN6 300-143G-0340	300	300	230	1599.5	1030	10	340	910	480	620	820	165	676
GKN6 300-143D-0420	300	300	230	1599.5	1030	10	340	910	480	620	820	165	788
GKN6 300-143A-0510	300	300	230	1631.5	1030	10	340	910	480	620	820	165	1026
GKN6 300-143N-0250R	300	300	230	1599.5	1030	-	340	910	480	620	820	165	671
GKN6 300-143H-0340R	300	300	230	1599.5	1030	-	340	910	480	620	820	165	696
GKN6 300-143E-0420R	300	300	230	1599.5	1030	-	340	910	480	620	820	165	804
GKN6 300-143B-0510R	300	300	230	1631.5	1030	-	340	910	480	620	820	165	1046

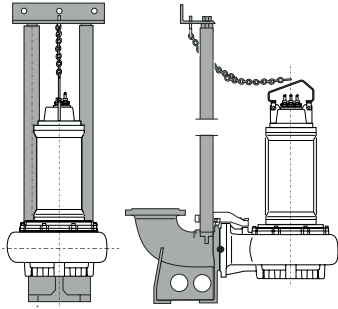
L1min = Minimum submergence depth for motor without casing with continuous duty S1 (NPSHR permitting)

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

## Dimensions and weights

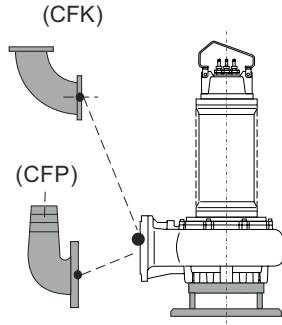
Duck foot coupling

SAK



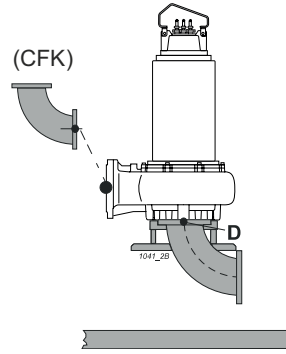
Submersible pump rest

APK



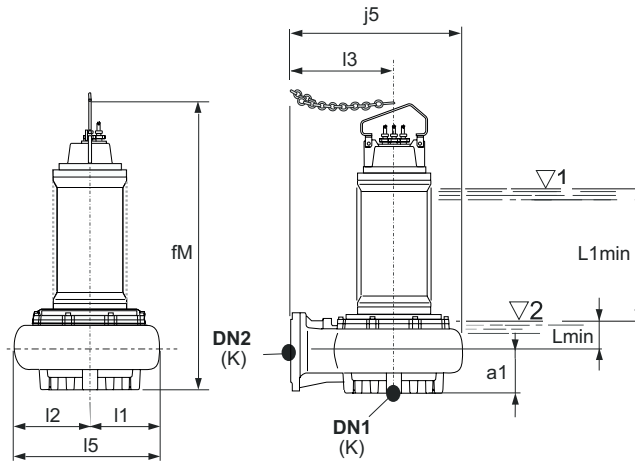
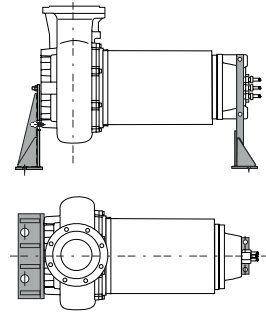
Dry chamber pump rest

APCK



Dry chamber pump support

SOK

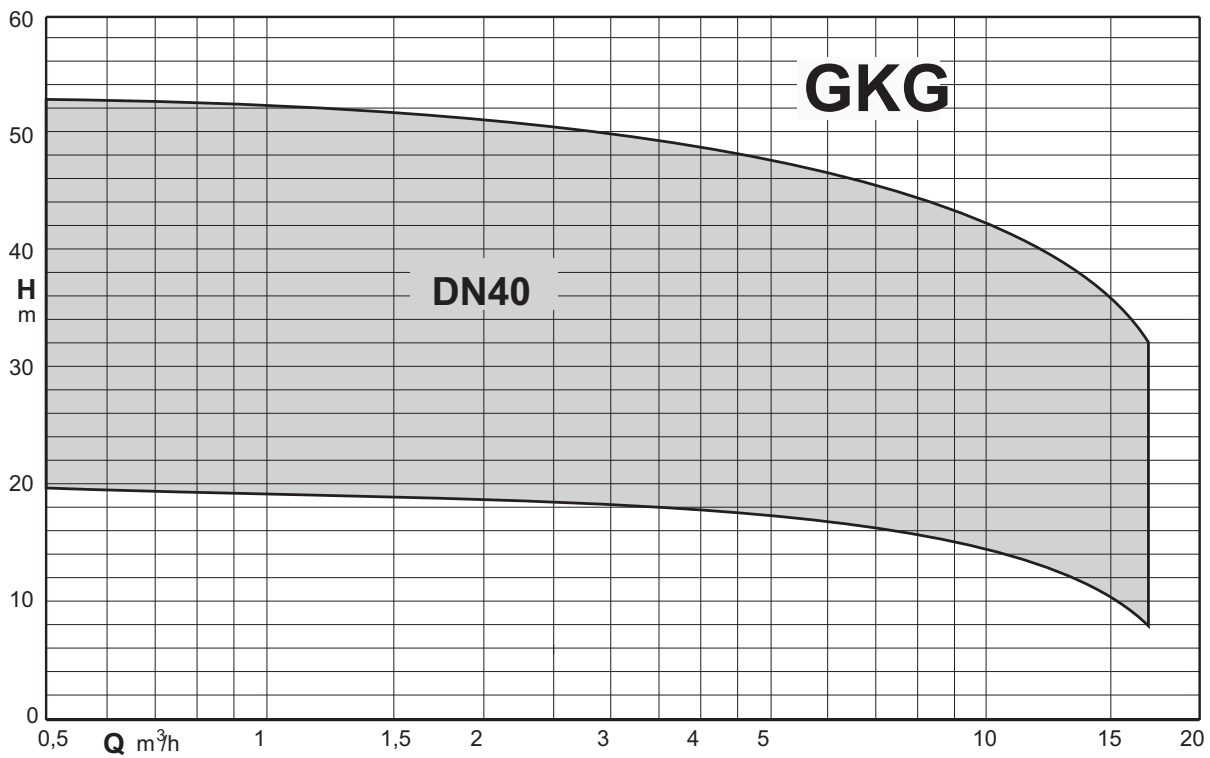
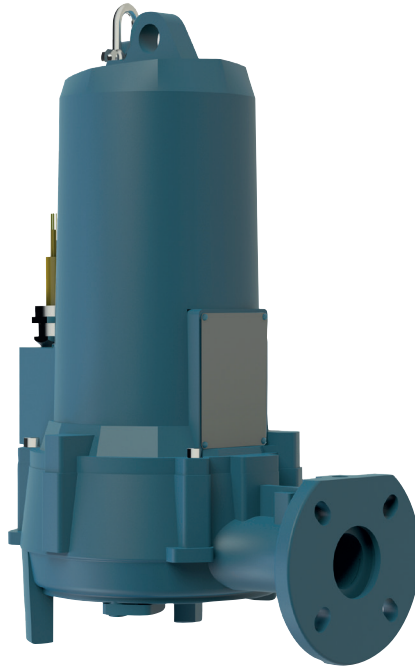


TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKN8 350-143S-0210	350	350	268	1640.5	1170	10	385	997	550	700	935	192	785
GKN8 350-143O-0250	350	350	268	1662.5	1170	10	385	912	550	700	935	167	970
GKN8 350-143G-0340	350	350	268	1662.5	1170	10	385	912	550	700	935	167	1070
GKN8 350-143A-0420	350	350	268	1672.5	1170	10	385	1002	550	700	935	192	1155
GKN8 350-143T-0210R	350	350	268	1640.5	1170	-	385	997	550	700	935	192	805
GKN8 350-143P-0250R	350	350	268	1662.5	1170	-	385	912	550	700	935	167	990
GKN8 350-143H-0340R	350	350	268	1662.5	1170	-	385	912	550	700	935	167	1025
GKN8 350-143B-0420R	350	350	268	1672.5	1170	-	385	1002	550	700	935	192	1175

TYPE	ISO 228		mm										Kg Weight
	DN1	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKN6 350-164V-0420	350	350	268	1640.5	1170	10	385	997	550	700	935	192	865
GKN6 350-164S-0510	350	350	268	1672.5	1170	10	385	1002	550	700	935	192	1198
GKN6 350-164W-0420R	350	350	268	1640.5	1170	10	385	997	550	700	935	192	880
GKN6 350-164T-0510R	350	350	268	1672.5	1170	10	385	1002	550	700	935	192	1219
GKN6 350-164O-0600	350	350	268	1908	1170	10	385	1177	550	700	935	192	1409
GKN6 350-164G-0820	350	350	268	1908	1170	10	385	1177	550	700	935	192	1482
GKN6 350-164A-1000	350	350	268	1908	1170	10	385	1177	550	700	935	192	1544
GKN6 350-164P-0600R	350	350	268	1908	1170	10	385	1177	550	700	935	192	1642
GKN6 350-164H-0820R	350	350	268	1908	1170	10	385	1177	550	700	935	192	1715
GKN6 350-164B-1000R	350	350	268	1908	1170	10	385	1177	550	700	935	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 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 textile 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  
 Impeller: cast iron  
 Motor casing: cast iron  
 Shaft: stainless steel  
 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  
 For other models: contact our sales office

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

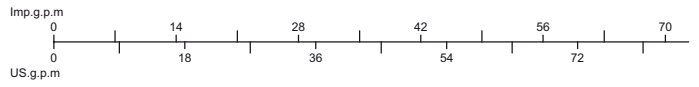
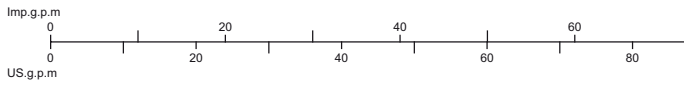
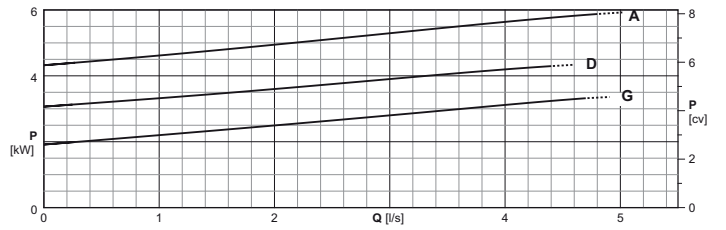
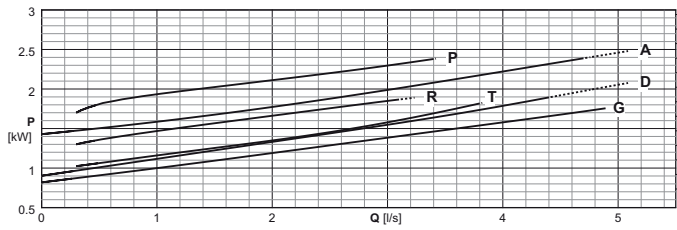
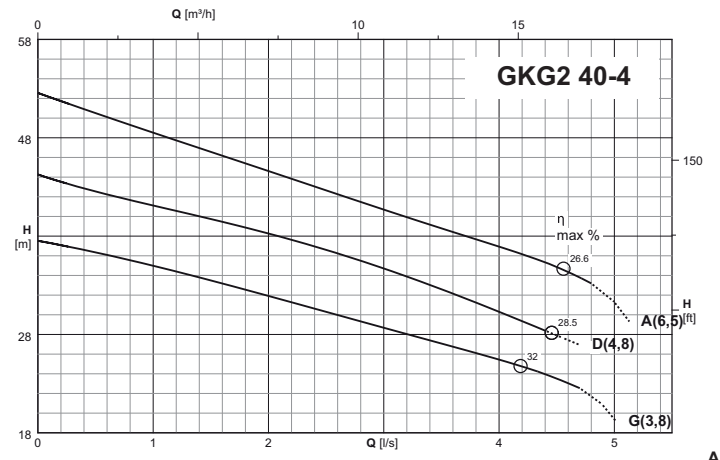
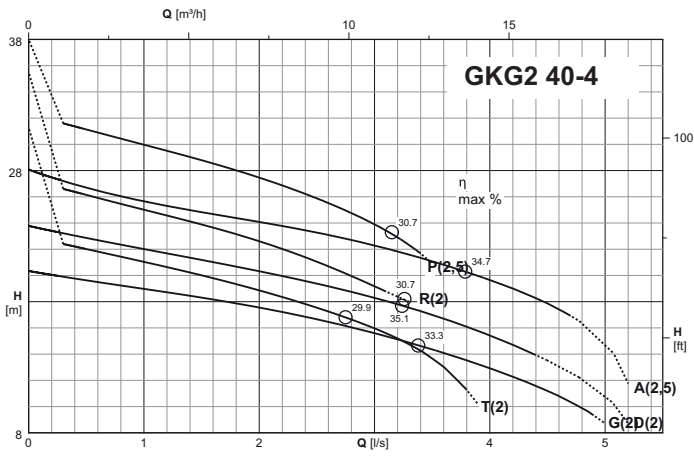
• = Standard      - = Not present      o = Optional

## Performance

n ≈ 2850 1/min

Model	400V A	400V A	690V A	P2 kW	Q = Flow												
					m³/h l/min	0	1,4	1,8	2,2	2,5	2,9	3,2	3,6	7,2	10,8	14,4	18
							23,33	30	36,66	41,66	48,33	53,33	60	120	180	240	300
H (m) = Total head																	
GKG2 40-4T-0020	4,1	-	-	2	23,3	22,2	22	21,8	21,6	21,4	21,2	21	18,9	16	-	-	
GKG2 40-4R-0020	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-0020	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-0020	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-0025	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-0025	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-0038	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-0048	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-0065	-	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	

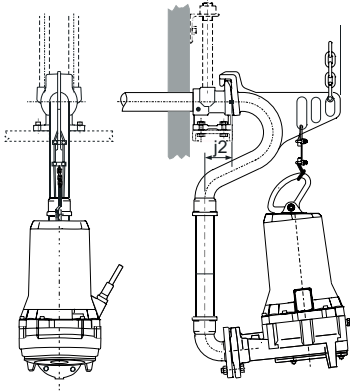
## Characteristic curves



## Dimensions and weights

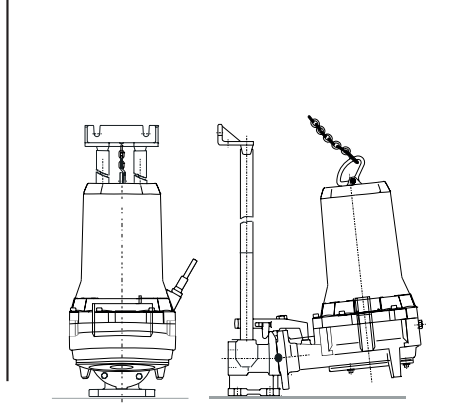
### Duck foot coupling

#### SAK 40-G11/2A



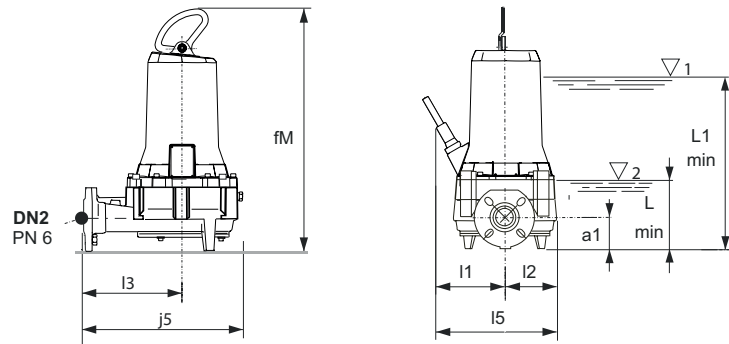
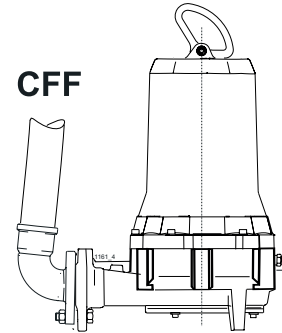
### Submersible pump rest

#### SAK 40-G11/2-3/4



### Submersible pump with bend

#### CFF

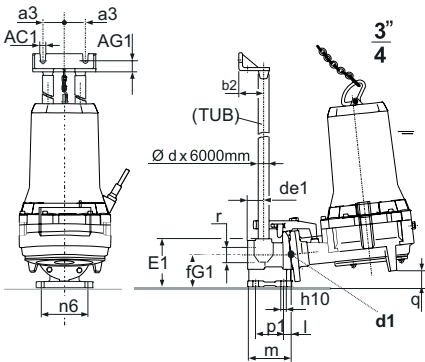


TYPE	ISO 228		mm									Kg Weight
	DN2	a1	fM	j5	K	l1	L1min	l2	l5	l5	Lmin	
GKG2 40-4T-0020	40	73	476	338	6	112	261	112	200	224	61	52
GKG2 40-4R-0020	40	73	476	338	6	112	261	112	200	224	61	52
GKG2 40-4D-0020	40	73	476	338	6	112	261	112	200	224	61	52
GKG2 40-4G-0020	40	73	476	338	6	112	261	112	200	224	61	52
GKG2 40-4P-0025	40	73	476	338	6	112	261	112	200	224	61	53
GKG2 40-4A-0025	40	73	476	338	6	112	261	112	200	224	61	54
GKG2 40-4G-0038	40	73	571	373	6	204.5	317	136.5	240	341	49	81.8
GKG2 40-4D-0048	40	73	571	373	6	204.5	317	136.5	240	341	49	81.7
GKG2 40-4A-0065	40	73	640	373	6	221	317	136.5	240	357.5	49	100

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

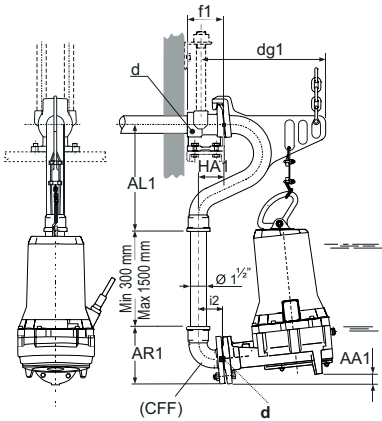
Lmin = Minimum submergence depth for motor without casing with intermittent duty S3 (NPSHR permitting)

## Dimensions and weights



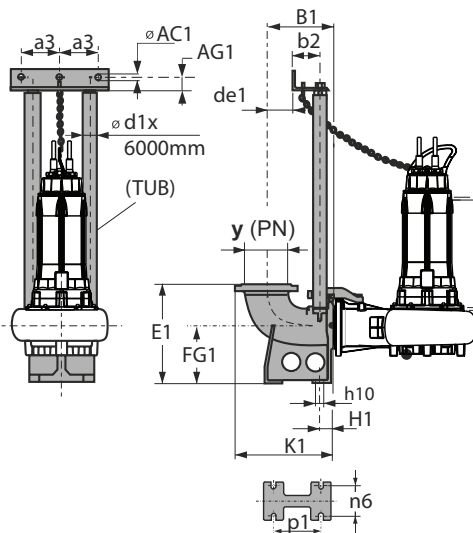
Duck foot coupling

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

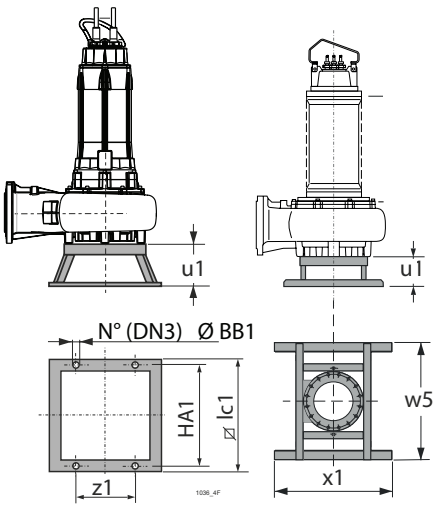
TYPE	mm						f1	g3	HA1
	AA1	AL1	AR1	d	dg1				
SAK 40-G11/2A	29	315	165	G1 1/2"	403	107	76	76	



Duck foot coupling

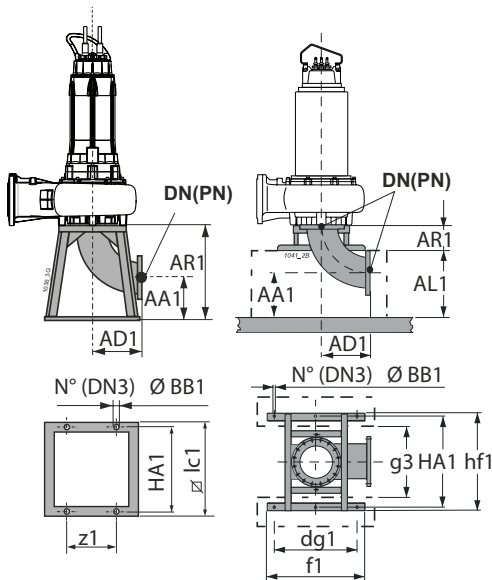
TYPE	mm																
	a3	AC1	AG1	B1	b2	d1	de1	E1	fG1	H1	h10	K1	n6	p1	y	PN	
SAK 65-65-2	130	12.5	35	220	102	2"	40	280	160	47	18	312,5	110	156	65	16	
SAK 65-80-2	130	12.5	35	220	102	2"	40	280	160	47	18	320	110	156	80	16	
SAK 80-100-2	130	12.5	35	228	102	2"	48	320	180	47	18	338	110	156	100	16	
SAK 80-80-2	130	12.5	35	228	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	

## Dimensions and weights



### Submersible pump rest

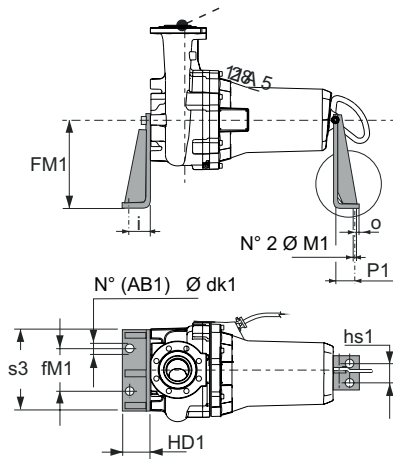
TYPE	mm							
	BB1	DN3	HA1	lc1	u1	w5	x1	z1
APK 80	12	4	400	440	166	-	-	230
APK 100	14	4	600	650	180	-	-	350
APK 100A	14	4	600	650	180	-	-	350
APK 150	14	4	600	650	220	-	-	350
APK 150A	-	-	-	-	280	1000	1000	-
APK 250	14	4	600	650	220	-	-	350
APK 350	-	-	-	-	280	1000	1000	-



### 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

### Non-return ball valves

#### Construction

Non-return self-cleaning ball valves, suitable for dirty and viscous liquids, sewage water.

#### Operating conditions

Working temperature from -10°C up to +80°C

Rated pressure: 10 bar

Vertical or horizontal installation

#### Materials

Valve body: Cast iron EN-GJL-250

Cover: Cast iron EN-GJL-250

Ball: Resin for threaded VNRP

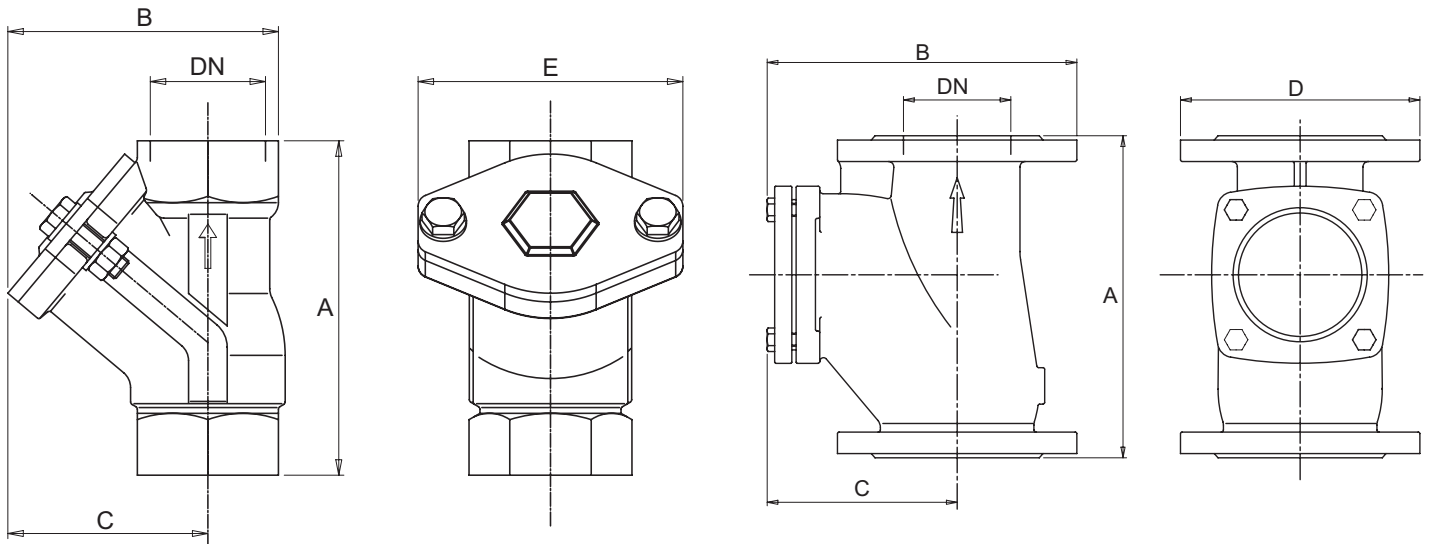
Resin + NBR for VNRP DN 50-100

Cast iron + NBR for VNRP DN 125-250

Screws: SS AISI 304

Joint: nitril

#### Dimensions and weights

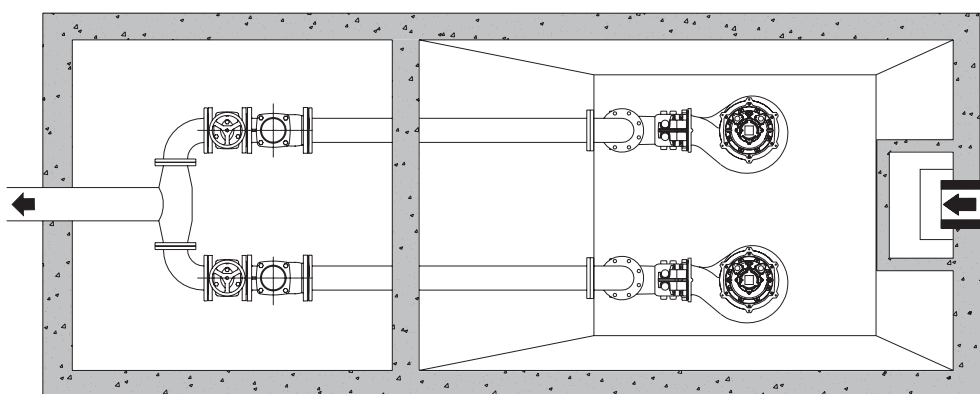
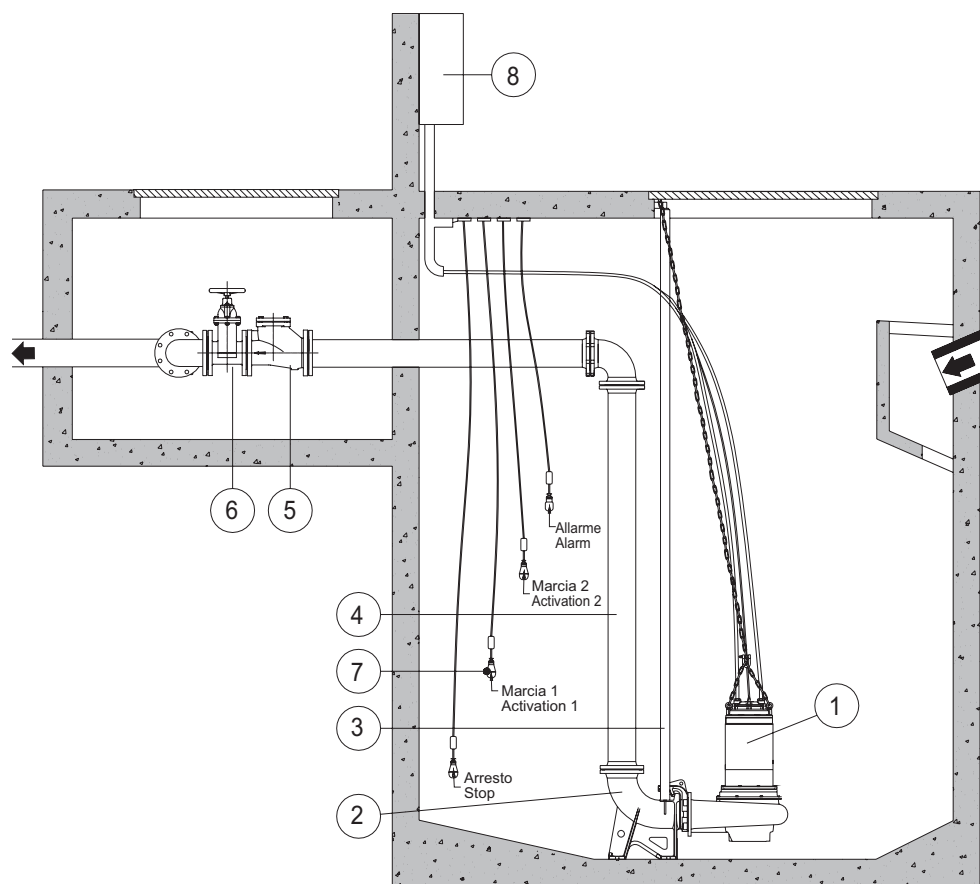


Pump type	DN	mm				Weight
	mm	A	B	C	D	kg
VNRP 1 1/4	1" 1/4	132	111	83	108	1,9
VNRP 1 1/2	1" 1/2	145	122	90	120	2,4
VNRP 2	2"	173	145	110	135	3,6
VNRP 2 1/2	2" 1/2	200	175	130	155	6,5

Pump type	DN	mm				Weight
	mm	A	B	C	D	kg
VNRP 50	50	182	192	120	165	9,5
VNRP 65	65	204	215	124	185	14
VNRP 80	80	260	250	150	200	19,5
VNRP 100	100	300	290	180	220	23,5
VNRP 125	125	350	340	215	250	36
VNRP 150	150	400	388	245	285	38,5
VNRP 200	200	500	480	310	340	69



## 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 floats
- 9 Control box