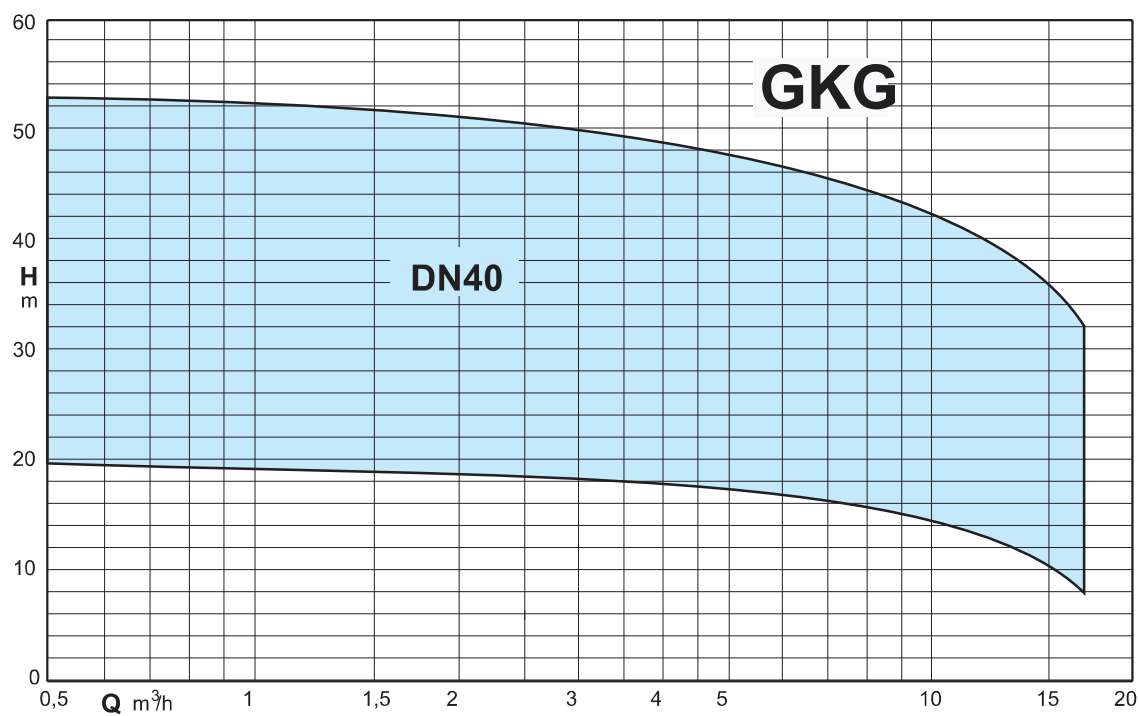
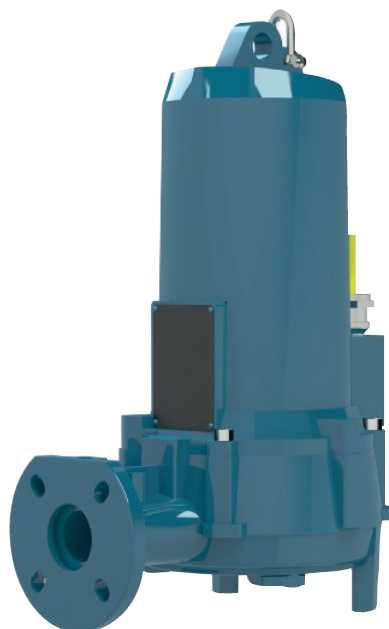




Submersible pumps with high power grinder



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

Motor

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

Special features on request

(Check feasibility according to the model with our Technical Sales Office).
ATEX versions complying with EN60079-0 - EN60079-1 type I M2 Ex db h I Mb, II 2G Ex db h IIB T4 Gb.
Impeller in stainless steel AISI 316 or bronze.
Bronze impeller seat ring.
Cable length up to 40 m
Other mechanical seal.
Higher or lower liquid or ambient temperatures.
Ceramic coating.
Internal anti-erosion coating, external anti-corrosion.

Designation

GKG2 40-4T-0020F-X
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 (P2 = 2 kW)
F = Size of electric motor flanging
X = Versione ATEX

Technical data

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

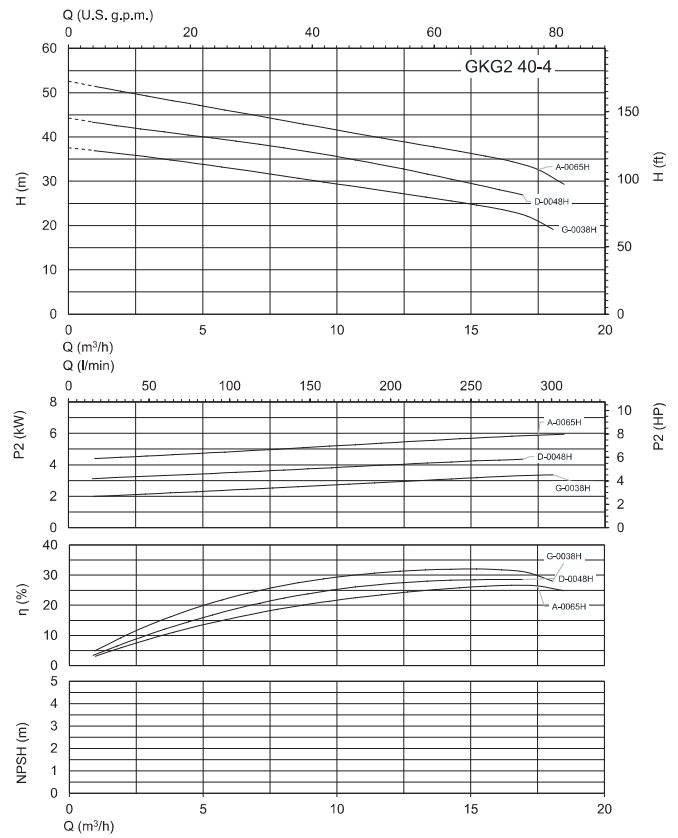
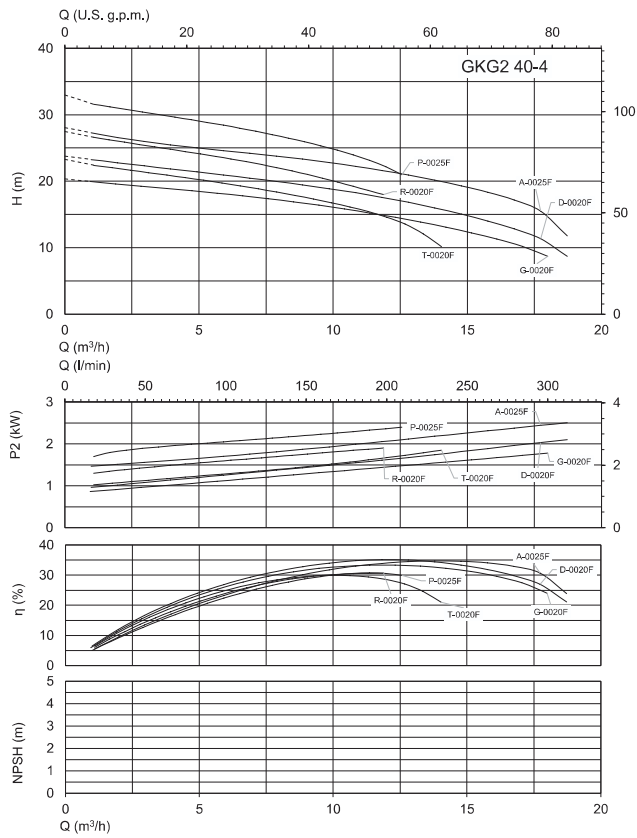
• = Standard - = Not present o = Optional

Performance

n ≈ 2850 1/min

					Q = Flow													
					m³/h	0	1,1	1,4	1,8	2,2	2,5	2,9	3,2	3,6	7,2	10,8	14,4	18
					l/min	0	18,33	23,33	30	36,66	41,66	48,33	53,33	60	120	180	240	300
Model	400V	400V	690V	P2	H (m) = Total head													
	A	A	A	kW														
GKG2 40-4T-0020F	4,1	-	-	2		23,3	22,4	22,2	22	21,8	21,6	21,4	21,2	21	18,9	16	-	-
GKG2 40-4R-0020F	4,1	-	-	2		27,5	26,6	26,4	26,1	25,9	25,7	25,5	25,2	25	22,6	19,2	-	-
GKG2 40-4D-0020F	4,1	-	-	2		23,8	23,2	23	22,9	22,7	22,5	22,3	22,2	22	20,3	18,3	15,4	10,6
GKG2 40-4G-0020F	4,1	-	-	2		20,3	19,9	19,8	19,6	19,5	19,4	19,2	19,1	19	17,5	15,6	12,9	8,7
GKG2 40-4P-0025F	5,5	-	-	2,5		33	31,6	31,4	31,1	30,9	30,7	30,4	30,2	30	27,5	23,9	-	-
GKG2 40-4A-0025F	5,5	-	-	2,5		28,1	27,2	27	26,7	26,5	26,3	26	25,9	25,7	24,1	22,3	19,6	14,5
GKG2 40-4G-0038H	7,5	-	-	3,8		37,5	36,8	36,6	36,3	36,1	35,8	35,5	35,3	35	31,9	28,7	25,4	19,3
GKG2 40-4D-0048H	8,9	-	-	4,8		44,3	43,2	42,9	42,5	42,3	42	41,7	41,4	41,1	38,3	34,7	30,3	-
GKG2 40-4A-0065H	-	11,9	6,9	6,5		52,6	51,3	50,9	50,5	50,1	49,7	49,3	48,9	48,5	44,6	40,7	36,9	30,9

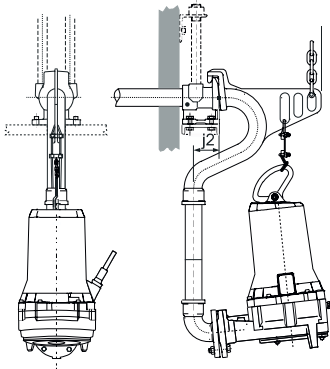
Characteristic curves



Dimensions and weight

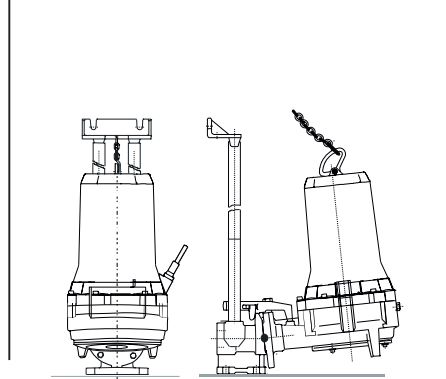
Duck foot coupling

SAK 40-G11/2A



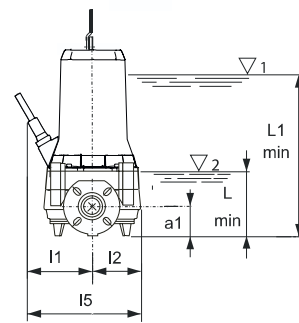
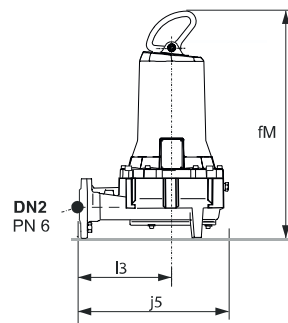
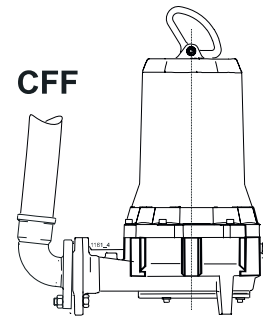
Submersible pump rest

SAK 40-G11/2-3/4



Submersible pump with bend

CFF



TYPE		mm										Kg
	DN2	a1	fM	j5	K	l1	l2	l3	l5	L1min	Lmin	Weight
GKG2 40-4T-0020F	40	73	476.6	338	6	112	112	200	224	261	61	52
GKG2 40-4R-0020F	40	73	476.6	338	6	112	112	200	224	261	61	52
GKG2 40-4D-0020F	40	73	476.6	338	6	112	112	200	224	261	61	52
GKG2 40-4G-0020F	40	73	476.6	338	6	112	112	200	224	261	61	52
GKG2 40-4P-0025F	40	73	476.6	338	6	112	112	200	224	261	61	48
GKG2 40-4A-0025F	40	73	476.6	338	6	112	112	200	224	261	61	46
GKG2 40-4G-0038H	40	73	571.3	373	6	204.5	136.5	240	341	317	49	81.8
GKG2 40-4D-0048H	40	73	571.3	373	6	204.5	136.5	240	341	317	49	76
GKG2 40-4A-0065H	40	73	640.4	373	6	221	136.5	240	357.5	317	49	97

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

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