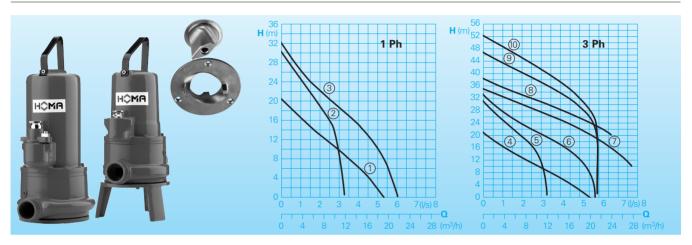


Electric submersible pumps with cutter system for sewage and effluent.

Barracuda GRP 16-50

Performance



Application

The installation of conventional sewer systems in areas of low population like small villages, farms or under difficult topographic conditions is often extremely expensive, mainly because of the high cost for large diameter pipework installation. HOMA provides the perfect, economical alternative with Barracuda grinder pump pressure sewage systems. The Barracuda pumps cut all solids present in the sewage into small particles. This allows the use of pipes from 1 1/2" diameter, which can be easily laid at low cost with a minimum of construction work.

DIN EN 12050-1: Conformity and design approved and controlled by LGA. Installation: Transportable or permanent. Models with float switch control for automatic pump operation, depending on liquid level in the sump. Pumped liquid: Waste water or sewage containing soft solids. Max. liquid temperature: 40°C, short term up to 60°C. Operation: Permanent (S1).

Design

Fully submersible, compact integrated motor-pump consisting of: Pump: Single stage centrifugal pump with horizontal discharge BSP

2"M.Impeller/Cutter: Open multi-channel impeller. Cutter system at pump inlet consisting of stationary cutter ring and blade rotor.

Motor: Fully submersible, pressuretight electric motor, single or three phase. Thermal sensors embedded in stator winding. Insulation class H, degree of protection IP 68. Motor start: GRP 16 - 36: direct-online GRP 44 - 50: start-delta-start Cable:GRP16W: H07RN-F4G1,5 |

Technical Data

Curve	Pump type	Motor		Operation-/Start-	Speed	Nominal	Weigth
No.		P_1	P_2	Capacitor*	(rpm)	current	(kg)
		(kW)	(kW)	(μF)		(A)	
1	GRP 16 (B) W (A) (Ex)	1,5	1,1	30/60	2900	7,5	27
2	GRP 20 W (A) (Ex)	2,1	1,5	50/100	2900	9,5	33
3	GRP 26 W (A) (Ex)	2,5	1,8	50/100	2900	11,5	33
4	GRP 16 (B) D (A) (Ex)	1,3	0,9		2900	2,5	27
(5)	GRP 20 D (A) (Ex)	2,1	1,6		2900	3,5	33
6	GRP 26 D (A) (Ex)	2,5	1,9		2900	4,4	33
7	GRP36 D (A) (Ex)	3,7	3,1		2900	6,4	44
8	GRP36 HD (A) (Ex)	3,7	3,1		2900	6,4	44
9	GRP 44 D (Ex)	4,4	3,7		2840	7,5	56
10	GRP 50 D (Ex)	5,2	4,4		2840	8,7	56

Model W: 230-240V/1Ph 50Hz Model D: 400-415V/3Ph 50Hz

* Capacitor: For the operation it is necessary to install a capacitor in the control box.

GRP16D: H07RN-F7G1,5 | GRP20-36: H07RN-F7G1,5 | GRP16-36EX: H07RN-F PLUS 6G1,5 | GRP44-50(EX): H07RN-F(-PLUS)10G1,5 Shaft/Bearing: Large diameter stainless steel rotor shaft, heavy duty pre-lubricated bearings. Seals: GRP 16 with combination of mechanical seal (silicon-carbide/ silicon-carbide) and lip seal in oil chamber. Models from GRP 20 with two mechanical seals (silicon-carbide/ silicon-carbide) in oil chamber, oil inspection from outside. Seal condition monitoring probe on request. Explosion protection: All Models available with explosion proof motors according to @ II 2 G Ex c d II B T4(T3)

Materials

Motor housing, Pump housing, impeller	Gast iron EN-GJL-250
Rotor shaft, screws	Stainless steel
Cutter System	Stainless steel 1.4122 - 55HRC
Mechanical seal	Silicon-carbide
O-rings	Perbonane

Model GRP 16 B: with base stand Model A: with automatic level control HOMA-Nivomatik Model Ex: explosion proof

Equipment supplied

Model W (230-240 V/1 Ph):

10 m of cable. Control box W19 (GR-P16W); WT19 (GRP26-36W) available as accessories.

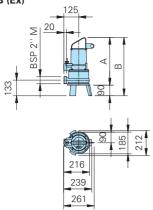
Model D (400-415 V/3 Ph):

10 m of cable. Control box DT32 available as accessories.

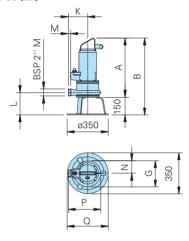
Model A: With additional automatic level control, with AS float switch, control box WA10/19; DA10/32; DA10/12 with overload protection, manual-auto-switch, and 10 m of cable. The single phase (1Ph) pumps are furthermore provided with integrated condensers and connector. The three phase (3Ph) pumps are equipped with a CEE reversing plug for rotational direction.

Model GRP 16 B: With mounted

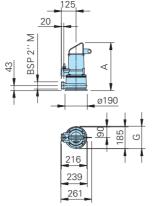
base stand.



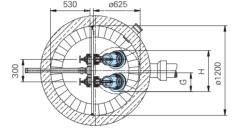
GRP 20-50 (Ex)



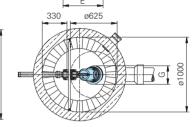
GRP 16 (Ex) BSP 239



Permanent sump installation a625 Pipe 1/2" ISO Pipe 2" ISO Permanent sump installation with auto-coupling system. Permanent installation utilising a submerged auto- coupling guide rail system for automatic connection and disconnection of the pump from the pipework from outside the sump. Applicable for single and multi pump stations. Advantages: Little space requirement, easy pump

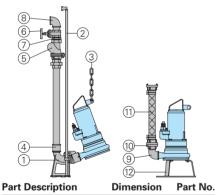


service and maintenance.



Pump type	Α	В	С	D	E	F	G	Н	K	L	M	N	Р	Q
GRP 16 (B)(Ex)	406	496	212	578	461	364	190	490						
GRP 20 (Ex), 26 (Ex)	468	618	228	651	501	403	223	523	165	191	20	107	277	350
GRP 36 (HD) (Ex)	505	655	228	686	501	403	223	523	165	191	20	107	277	350
GRP 44 (Ex), 50 (Ex)	545	695	238	728	533	436	250	550	180	193	25	119	304	355

Accessories



① Auto-coupling system with flanged pump coupling, auto-coupling with flange

- for Cast iron upper slide rail bracket BSP1/2", GG KK50S/BSP2" BSP2"/BSP2" 8604008
- for Cast iron upper slide rail bracket BSP1/2", stainless steel KKR50S/BSP2" BSP2"/BSP2" 8604009.01
- for Cast iron upper slide rail bracket R1", stainless steel

KKR50S-1/BSP2 BSP2"/BSP2" 8604018

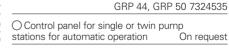
complete or partial in stainless steel all types

OAuto-coupling system on reques

Part Description	Dimension	Part No.					
Screw-kits for installation of							
coupling system	(on request					
O Inter. upper slide rail bracket	Ø ½" for KK50S						
	and KKR50S Ø 1"	7320271					
	für KKR50S-1	7323714					
② Guide rails, pair, per m							
steel galvanized	Ø 1/2"	2190085					
	Ø 1"	2190135					
stainless steel	Ø 1/2"	2190250					
	Ø 1"	2190252					
3 Lifting chain, proved capacity up 200 kg division 984 mm, 4x12	with evelet						
2m long	With Gyolot	2800371					
special lengths	(on request					

Shackle stainless steel	load capacity 400 kg	2801360
(4) Galvanized socket	BSP 2"F BSP 2"F x BSP 1½"F	2109102 2109210
⑤ Cast iron swing check valve	BSP 1½"F BSP 2"F	2212902 2212903
6 Bronze gate valve	BSP 1½"F BSP 2"F	2216015 2216020
(7) Galvanized double nipple	BSP 1½"M BSP 2"M	2009020 2009018

Dimension	Part No.		
BSP 1½"F	2113605		
BSP 2"F	2213606		
BSP 1½"F	2114302		
BSP 2"F	211430		
BSP2"F x BSP1½"F BSP2"F/M	2112605 2111506		
C-BSP1 ¹ / ₂ "M	2010003		
C-BSP2"F	201020		
38 mm dia.	2632042		
50 mm dia.	2632050		
C-38 dia.	2013002		
C-52 dia.	2013003		
BSP 11/2" M	2001513		
1 1/2"	2304854		
2"	2306009		
length 10 m length 15 m length 20 m length 30 m			
	BSP 1 1/2 "F BSP 2"F BSP 2"F BSP 2"F BSP 2"F X BSP 1 1/2 "F BSP 2 "F/M C-BSP 2"F/M C-BSP 2"F/M 38 mm dia. 50 mm dia. C-38 dia. C-52 dia. BSP 1 1/2 " M 1 1/2 " 2" elength 10 m length 15 m length 20 m		



and GRP 36

7321445



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