

Impeller with grinder system



General characteristics

Impeller with grinder system								
motor power	1,1 ÷ 1,5 kW							
poles	2							
delivery port	GAS 11/2"-DN32 horizontal							
free passage	-							
max flow rate	6.4 l/s							
max head	23 m							

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals assembled opposing in inspectable oil sump. Ecological dry motor. Series with explosion-proof ATEX certification.

Applications

Designed specifically for use where there are traces of flammable liquids or in potentially explosive atmospheres, the GRF is especially recommended for wastewaters containing filaments or fibres, and unstrained civil and industrial wastewaters in general.

Cast iron EN-GJL 250

Construction materials

Case Impeller Nuts and bolts Standard gasket Cutter material Cutting disk material Shaft Paint type Set of standard mechanical seals

Cast iron EN-GJL-250 Stainless steel - Class A2-70 Rubber - NBR - VITON Chromium steel - X102 CrMo17 KU Chromium steel - X102 CrMo17 KU Stainless steel - AISI 420 Ecological bicomponent epoxy (medium thickness 150 µm) Two silicon carbide mechanical seals (2SiC)

Operating limits

Maximum operating temperature	
PH of treated fluid	
Viscosity of treated fluid	
Maximum immersion depth	
Density of treated fluid	
Maximum acoustic pressure	
max starts per hour	

40 °C 6 ÷ 11 1 mm²/s 20 m 1 Kg/dm³ 70 dB 20







(€0496 **(£x)** II 2 GD Ex d kc IIB T4 tD A21 T135°C IP68 X

Models with ATEX certification, suitable for installation in the presence of potentially explosive gases, powders and liquids





Handle/Cable gland

Cast iron lifting and carrying handle. The GAS thread ring-nut can be removed to fix a rigid or flexible duct to the cable gland to protect the power supply cable



Motor

Ecological dry motor with thermal protections



Mechanical seals

Two silicon carbide (SiC) mechanical seals in oil sump



Oil sump

Large oil sump to guarantee longer mechanical seal lifetime



Grinder system

Grinder system comprising a revolving cutter and a plate with holes with sharpened edges that fine-chops filaments, preventing fouling of the impeller

Up to 69.000 cuts per minute



Delivery port

Threaded, flanged delivery port for the maximum ease of installation.



Models with horizontal GAS 11/2" threaded - DN32 PN6 flanged delivery port - 2 poles

Performances





Versions available

(Key to versions on page 16)

	Electrical variants												Cooling				Mechanical seals			
	N A E	Т	T C	T C D	T C D T	T C D G T	T C G	T C S T	T C S G T	T S	T R	T R G	Ν	СС	FT	C G F T	2SIC	SICM	SICAL	2SICAL
GRF 150/2/G40H A1CM/50				•									٠				•			
GRF 200/2/G40H A1CM/50				•									•				•			
GRF 150/2/G40H A1CT/50		•											٠				•			
GRF 200/2/G40H A1CT/50		•											٠				•			

NOTE FOR SINGLE PHASE PUMPS: thermal protections into the winding have to be connected to the electrical panel.

Capacitor supplied but not connected to the pump cable. The use of an electrical panel as circuit breaker housing is mandatory.

For installation please see use and maintenance instructions booklet.

Overall dimensions and weights





	Α	В	C	D	E	F	G	Н	J	J1	kg
GRF 150/2/G40H A1CM(T)/50	265	105	405	45	G 11/2″	215	14	90	90°	180°	32
GRF 200/2/G40H A1CM(T)/50	265	105	405	45	G 11/2″	215	14	90	90°	180°	34
Measurements in mm											

Packaging dimension

Installations available









