DGI

All product images are indicative only

Set-back vortex impeller

General characteristics

set-back vortex impeller	
motor power	0,74 ÷ 1,5 kW
poles	2 / 4
discharge	DN80 horizontal
free passage	max 80 mm
max flow rate	15.2 l/s
max head	8.4 m

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals, installed in series in inspectable oil sump. Ecological dry motor.

Applications

Suitable for heavy-duty applications with soiled biological wastewaters, sewage, rainwater and seepage.

Construction materials

Case	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL-250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless steel - AISI 420
Paint type	Ecological bicomponent epoxy (medium thickness 150 µm)
Set of standard mechanical seals	Two silicon carbide mechanical seals (2SiC)

Operating limits

Maximum operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm^2/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm^3
Maximum acoustic pressure	70 dB
max starts per hour	30

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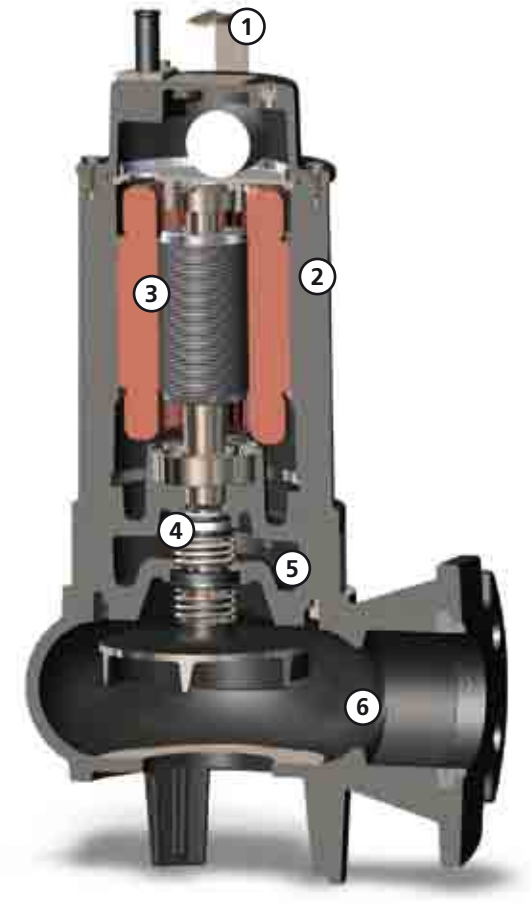
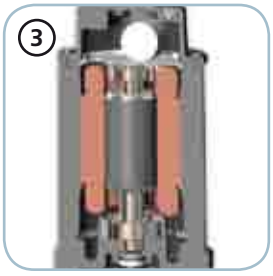


Handle

AISI 304 stainless steel lifting and carrying handle.

Structure

Constructed in GJL-250 cast iron.



Motor

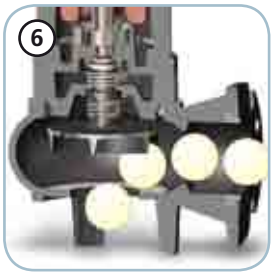
Ecological dry motor with thermal protections. Single-phase models with internal capacitor. Three-phase models with motor protection relay.

Mechanical seals

Two mechanical seals in silicon carbide (2SiC).

Oil sump

Large oil sump to guarantee longer mechanical seal lifetime.



Free passage

Wide free passage allowing the expulsion of solids and preventing fouling of the impeller.

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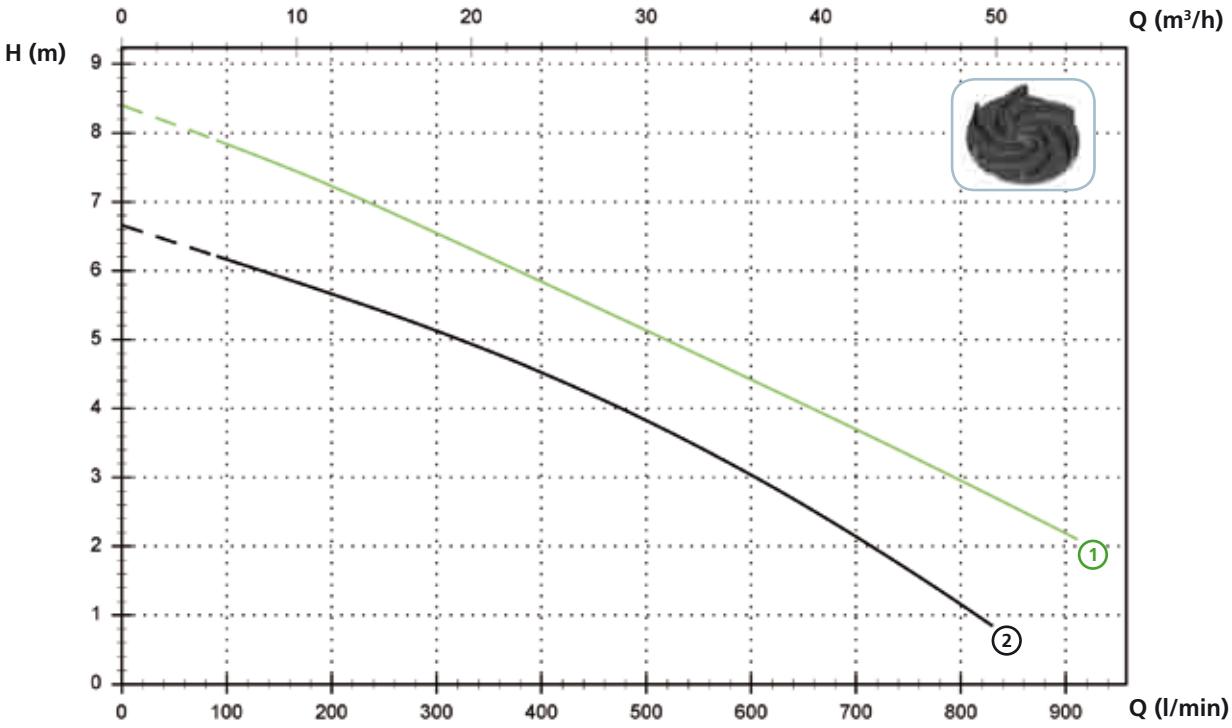
Models with horizontal DN80 PN10 flanged discharge - 2 poles
DN80 PN10-16 flanged discharge - 4 poles

Performances

	l/s	0	2	4	6	8	10	12	14
	l/min	0	120	240	360	480	600	720	840
	m³/h	0	7.2	14.4	21.6	28.8	36.0	43.2	50.4
① DGI 200/2/80 A0CM(T)/50		8.4	7.7	7.0	6.1	5.3	4.4	3.6	2.6
② DGI 100/4/80 A0CM(T)/50		6.7	6.1	5.5	4.8	4.0	3.0	2.0	



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGI 200/2/80 A0CM/50	230	1	-	1.5	9.3	2900	Dir	DN80 PN10	50 mm
② DGI 100/4/80 A0CM/50	230	1	-	0.74	5.5	1450	Dir	DN80 PN10-16	80 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGI 200/2/80 A0CT/50	400	3	-	1.5	3.5	2900	Dir	DN80 PN10	50 mm
② DGI 100/4/80 A0CT/50	400	3	-	0.74	2.3	1450	Dir	DN80 PN10-16	80 mm

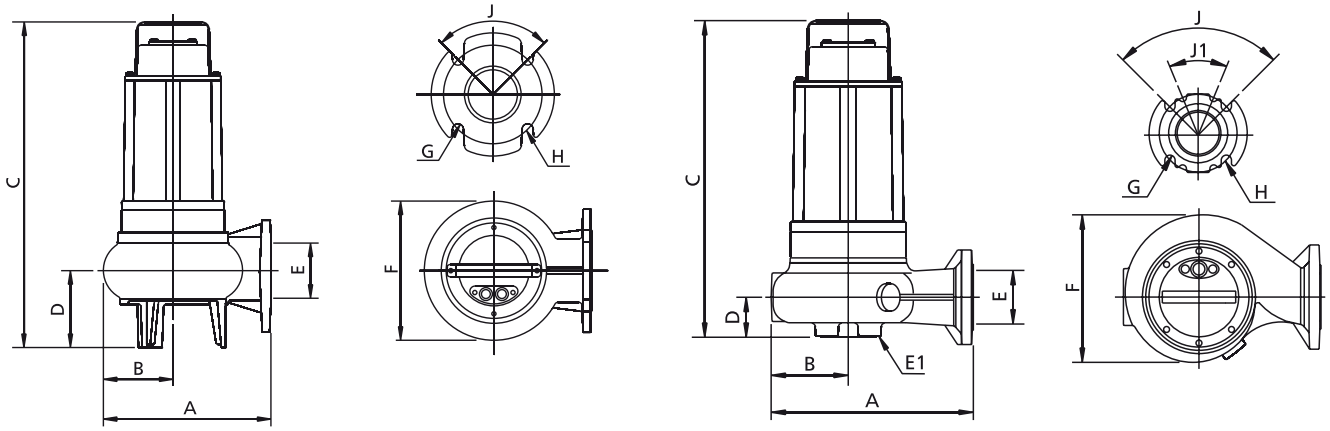
DGI

Versions available

(Key to versions on page 16)

	Electrical variants												Cooling				Mechanical seals			
	NAE	T	TC	TCD	TCDT	TCDGT	TCG	TCST	TCSGT	TS	TR	TRG	N	CC CCE	FT	CGFT	2SIC	SICM	SICAL	2SICAL
DGI 200/2/80 A0CM/50			●				●						●				●			
DGI 200/2/80 A0CT/50											●	●	●				●			
DGI 100/4/80 A0CM/50			●				●						●				●			
DGI 100/4/80 A0CT/50											●	●	●				●			

Overall dimensions and weights



	A	B	C	D	E	E1(*)	F	G	H	J	J1	kg
DGI 200/2/80 A0CM(T)/50	270	115	530	125	80	-	225	18	160	90°	-	34
DGI 100/4/80 A0CM(T)/50	315	125	525	80	80	80	245	18	160	90°	45°	40

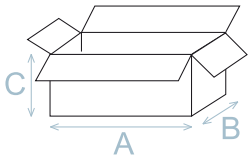
Dimensions in mm

All weights and dimensions are indicative only

(*) DN of the suction flange - PN6

Packaging dimension

	A	B	C
DGI 200/2/80 A0CM(T)/50	725	445	415
DGI 100/4/80 A0CM(T)/50	725	445	415

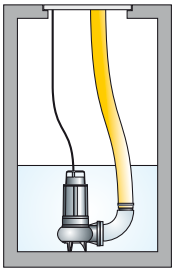


Dimensions in mm

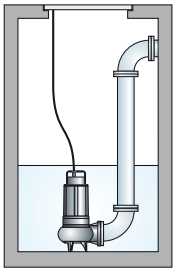
All weights and dimensions are indicative only

Installations available

A



B



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