



FGb Series

FGb series pumps are equipped with vortex impeller. The benefit of a vortex impeller over a channel impeller is the minimised risk of clogging. A Vortex impeller is also a better choice when the pumped liquid has a high content of sand. FGb Series pumps have large free passage upto 3½" in diameter suitable for lifting of sewage liquids, civil waste and industrial waste water containing solids and viscous materials, heavy muds or fermented sludge.

Operating parameters

Max Flow	upto 216m³/hr
Max Head	upto 65.5m
Impeller Type	Vortex - Curved vane
Outlet Size	40 - 100mm
Max Solid Size	upto 90mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm²/s
Liquid Density	1kg/dm³
Max. Noise level	≤ 70dB

Specifications

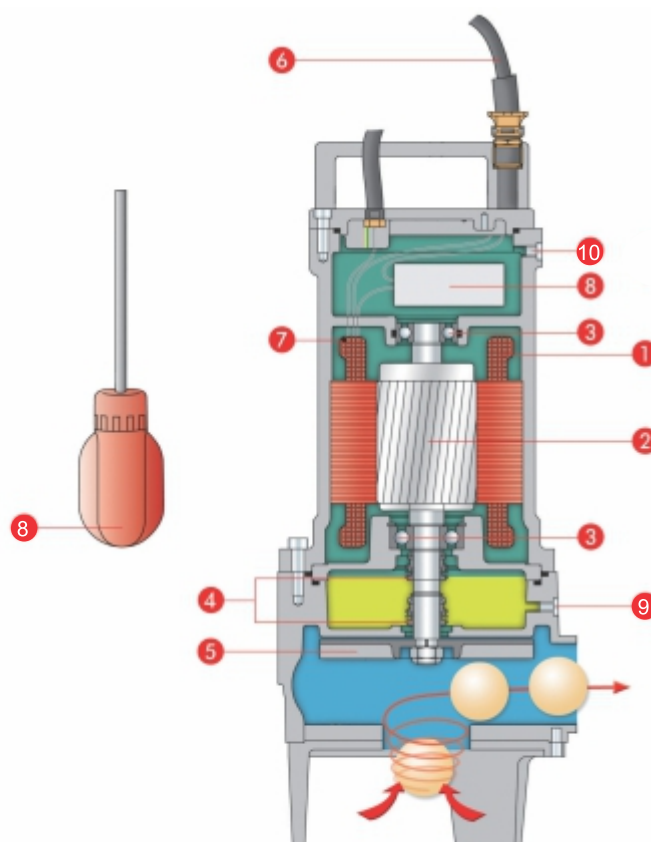
Power Range	0.5 to 50 kW
Power Supply	230V - Single phase & 380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	1450 / 2850 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Inbuilt capacitor	● Available
Starting Method	Single Phase - CSR, Three Phase - DOL & SD
Shaft Seal	Single / Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction

Casing	Cast iron EN-GJL-260
Impeller	Cast iron EN-GJL-260
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)



Cross Section Drawing



- | | |
|--|--|
| 1. Fully submersible pressure tight electric motor | 6. Cable |
| 2. Rotor Shaft | 7. Thermal overload protector |
| 3. Bearing | 8. Float switch |
| 4. Mechanical seal | 9. Oil inspection plug |
| 5. Vortex Impeller | 10. Air plug hole for the motor watertightness control |

PRODUCTS IDENTIFICATION CODE

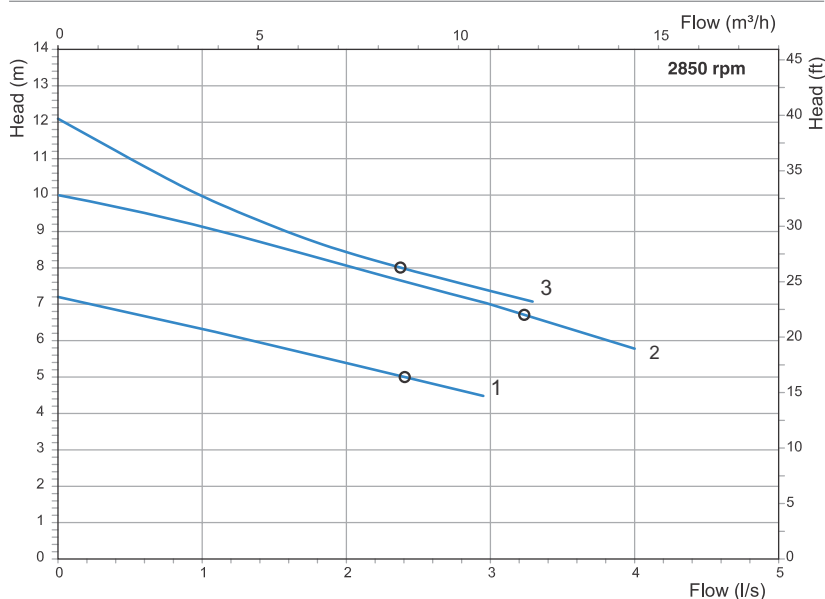
F	XX	250	-	2	(P)	(m)	(s)	/	(A)
• FIPS PRODUCTION	• IMPELLER DESIGN Gb - Vortex curved vane Ga - Vortex straight vane	• SERIES NAME	• NO. OF POLES (MOTOR SPEED)	• OUTLET SUITABLE FOR AUTO COUPLING	• SINGLE-PHASE	• SINGLE PHASE MODEL WITH EXTERNAL CAPACITOR (SUPPLIED WITH CONTROL BOX)	• AUTOMATIC ON / OFF WITH FLOAT		

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



FGb 250-301

PERFORMANCE CURVES



PERFORMANCE TABLE

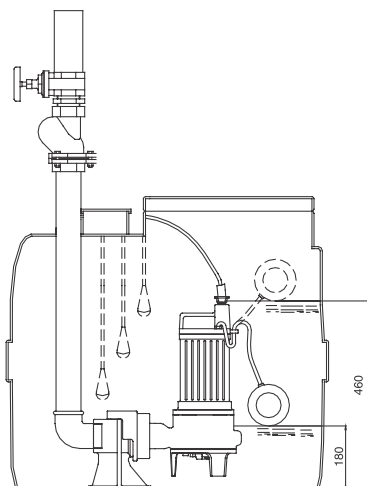
No	Model - Type	P1 kW	P2 kW	Volt	μF	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	Auto coupling V	Weight (kg)	I/sec m³/h	0	1	2	3	4
1	FGb 250-2 m/A	0.65	0.5	230	16	3	2850	40	36	40N	14	7.2	6.3	5.3	4.4		
1	FGb 250-2	0.65	0.5	400		2	2850	40	36	40N	14	7.2	6.3	5.3	4.4		
2	FGb 276-2 m/A	0.8	0.6	230	16	4	4	40	36	40N	14	10	9.2	8.4	7.5	5.8	
2	FGb 276-2	0.8	0.6	400		1.5	1.5	40	36	40N	14	10	9.2	8.4	7.5	5.8	
3	FGb 301-2 m/A	0.9	0.8	230	16	4.8	2850	40	36	40N	14	12.1	9.9	8.4	7.3		
3	FGb 301-2	0.9	0.8	400		1.5	2850	40	36	40N	14	12.1	9.9	8.4	7.3		

● Inbuilt capacitor hence separate control box is not required.

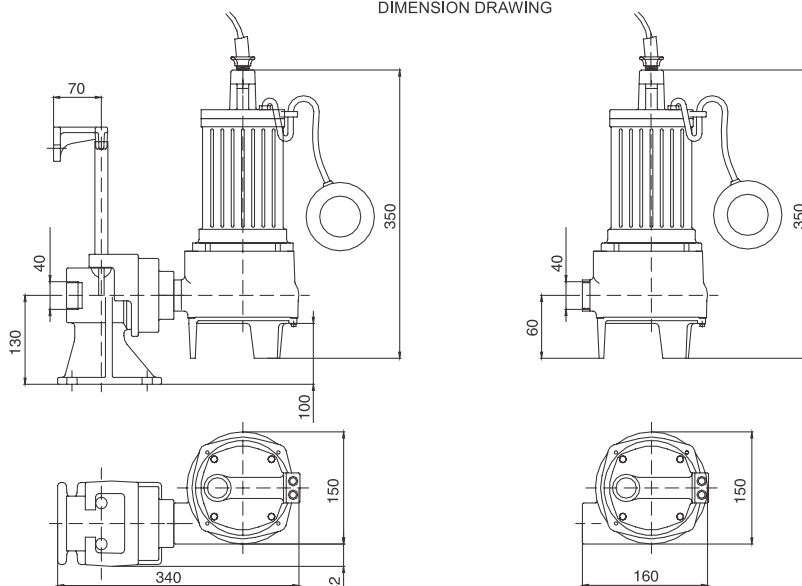
ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	FGb 250-2 m/A	4	1.5	NA	V40N-1F	146294	NA	THREADED G1½"
1	FGb 250-2	4	1.5	NA	V40N-1F	146294	NA	THREADED G1½"
2	FGb 276-2 m/A	4	1.5	NA	V40N-1F	146294	NA	THREADED G1½"
2	FGb 276-2	4	1.5	NA	V40N-1F	146294	NA	THREADED G1½"
3	FGb 301-2 m/A	4	1.5	NA	V40N-1F	146294	NA	THREADED G1½"
3	FGb 301-2	4	1.5	NA	V40N-1F	146294	NA	THREADED G1½"

INSTALLATION DRAWING



DIMENSION DRAWING

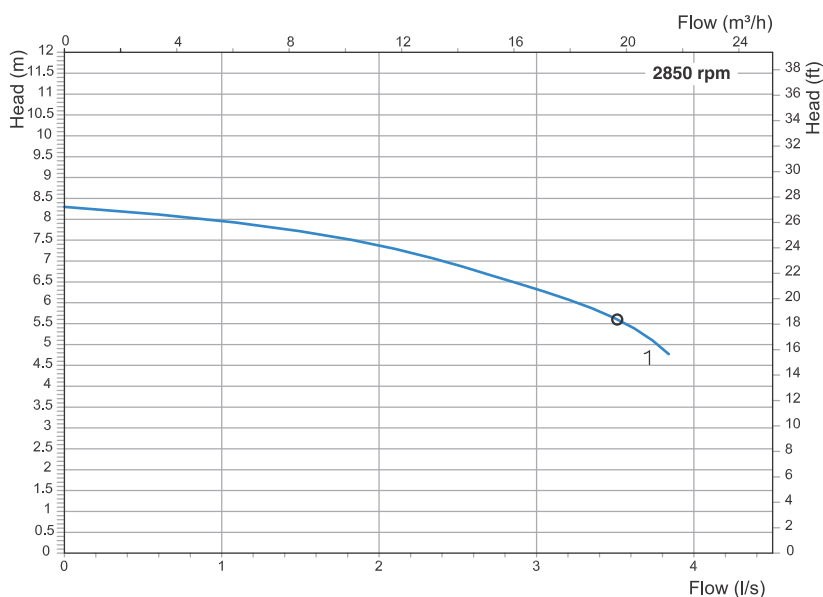


Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGb 311

PERFORMANCE CURVES



PERFORMANCE TABLE

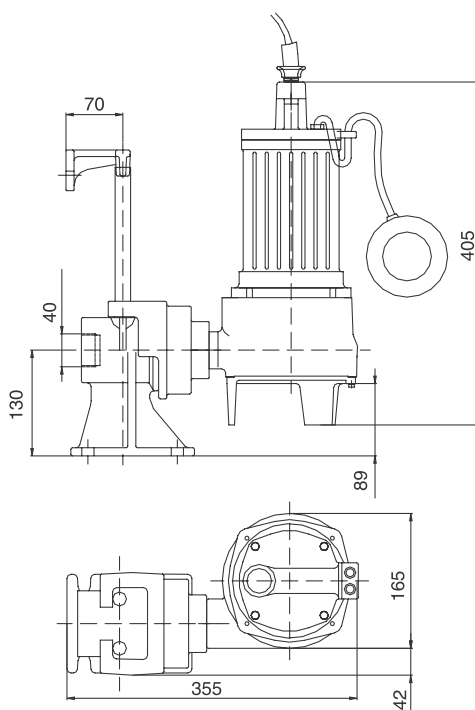
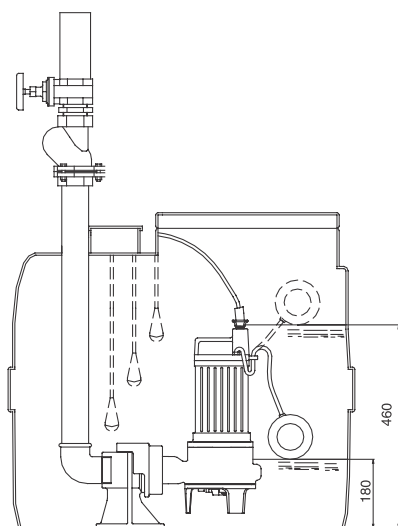
No	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	l/sec m³/h	0	1	2	3	4
1	FGb 311-2 m/A	1.1	0.8	230	22	5	2850	40	36	40N	20	Head in m	8.3	7.8	7.3	6.3	4.4
1	FGb 311-2	1.1	0.8	400		2	2850	40	36	40N	20	Head in m	8.3	7.8	7.3	6.3	4.4

● Inbuilt capacitor hence separate control box is not required.

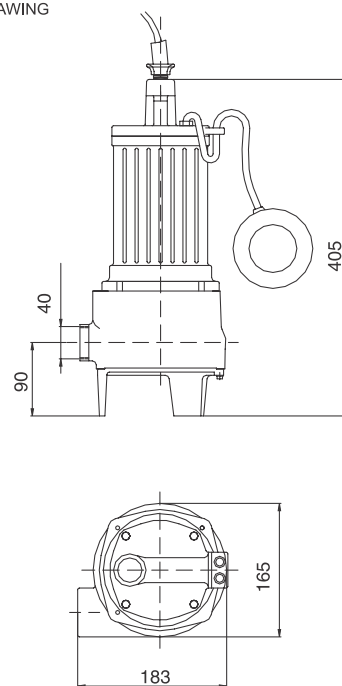
ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	FGb 311-2 m/A	4	1.5	NA		V40N-1F	146294	NA	THREADED G1½"
1	FGb 311-2	4	1.5	NA		V40N-1F	146294	NA	THREADED G1½"

INSTALLATION DRAWING



DIMENSION DRAWING



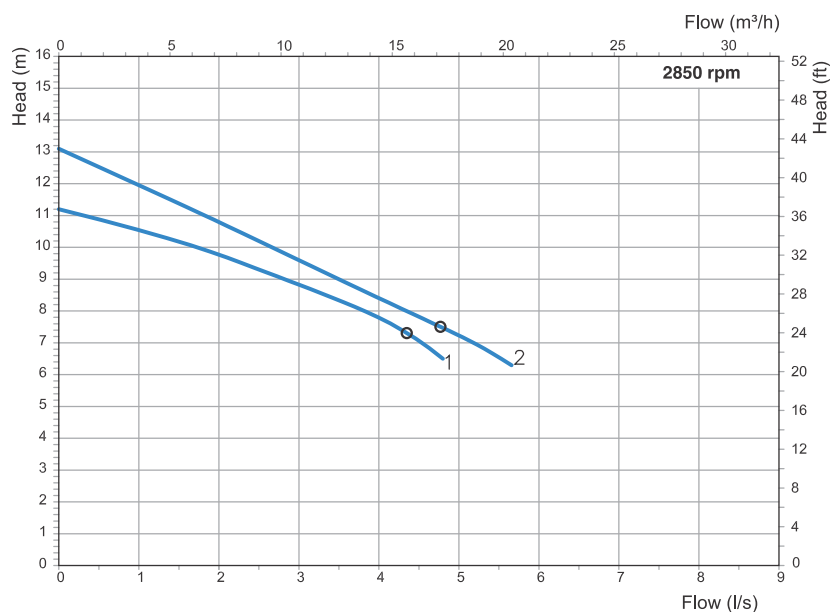
Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.

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FGb 512-518

PERFORMANCE CURVES



PERFORMANCE TABLE

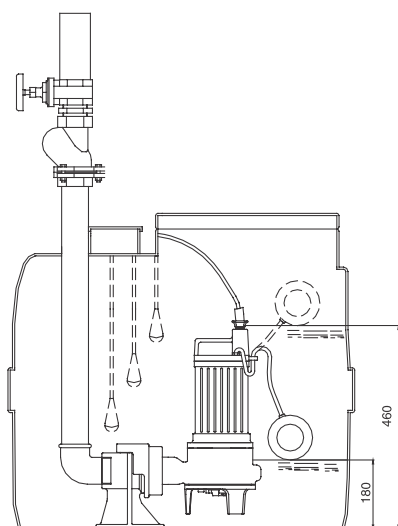
No	Model - Type	P1 kW	P2 kW	Volt	μF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	I/sec m³/h	0	1	2	3	4	5	6
1	FGb 512-2 m/A	1.1	0.8	230	22	5	2850	50	45	50N	24	Head in m	11.2	10.5	9.7	8.8	7.7	6	
1	FGb 512-2	1.1	0.8	400		2	2850	50	45	50N	24		11.2	10.5	9.7	8.8	7.7	6	
2	FGb 518-2 ms/A	1.7	1.2	230	30	7.4	2850	50	45	50N	24		13.1	12	10.7	9.5	8.4	7.1	5.7
2	FGb 518-2	1.7	1.2	400		2.5	2850	50	45	50N	24		13.1	12	10.7	9.5	8.4	7.1	5.7

● Inbuilt capacitor hence separate control box is not required.

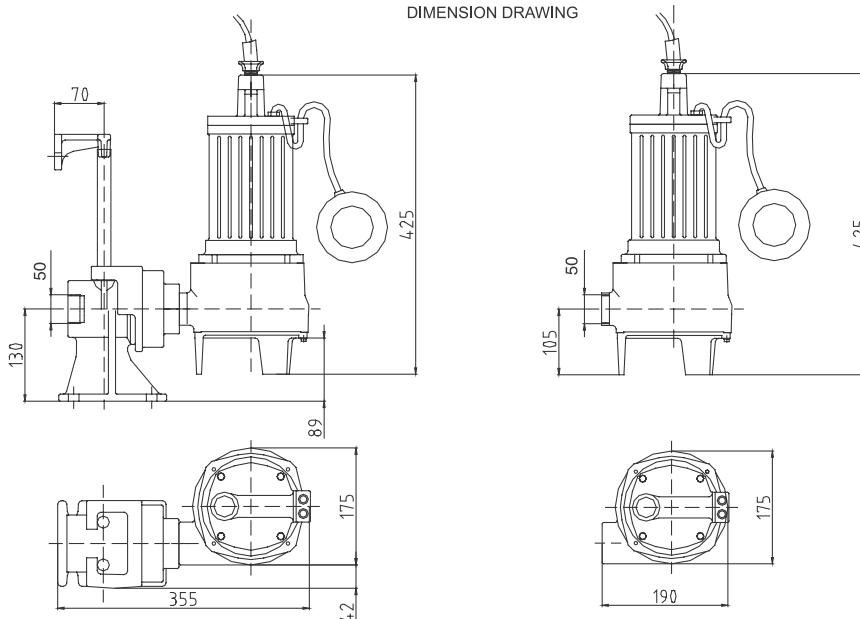
ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	FGb 512-2 m/A	4	1.5		NA	V40N-2F	146295	NA	THREADED 2" BSP
1	FGb 512-2	4	1.5		NA	V40N-2F	146295	NA	THREADED 2" BSP
2	FGb 518-2 ms/A	4	1.5		NA	V40N-2F	146295	NA	THREADED 2" BSP
2	FGb 518-2	4	1.5		NA	V40N-2F	146295	NA	THREADED 2" BSP

INSTALLATION DRAWING



DIMENSION DRAWING

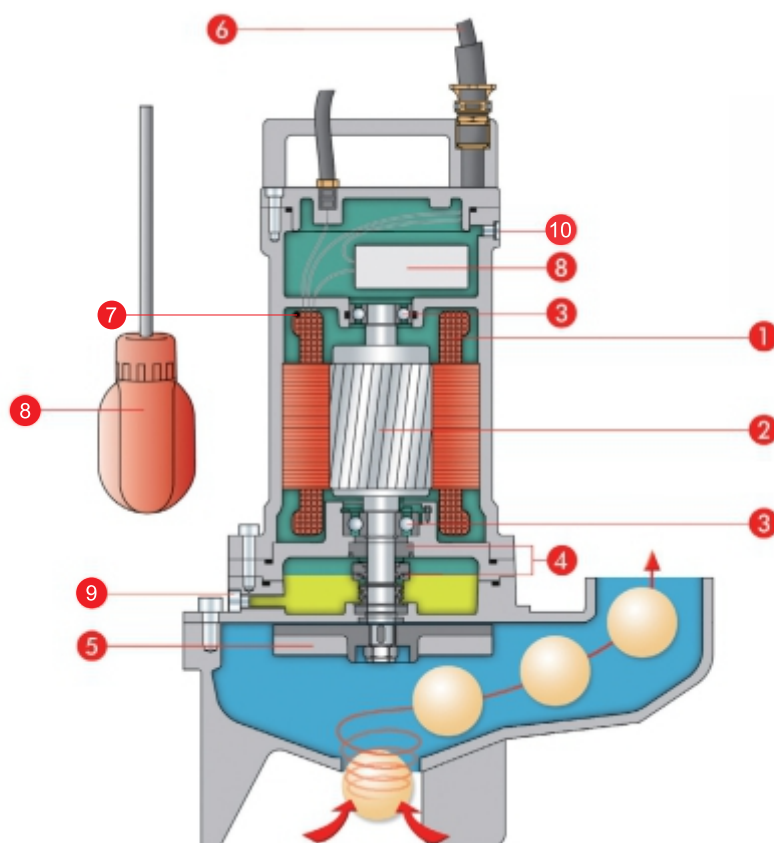


Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



Cross Section Drawing



1. Fully submersible pressure tight electric motor

2. Rotor Shaft

3. Bearing

4. Mechanical seal

5. Vortex Impeller

6. Cable

7. Thermal over load protector

8. Float switch

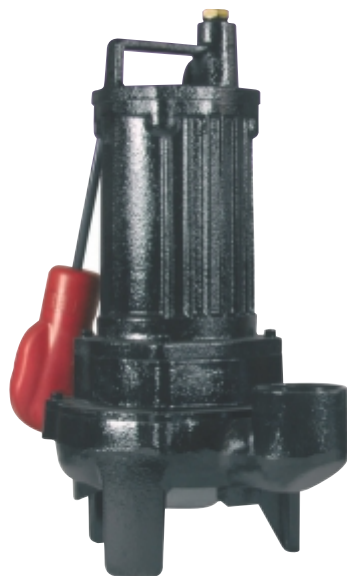
9. Oil inspection plug

10. Air plug hole for the motor water tightness control

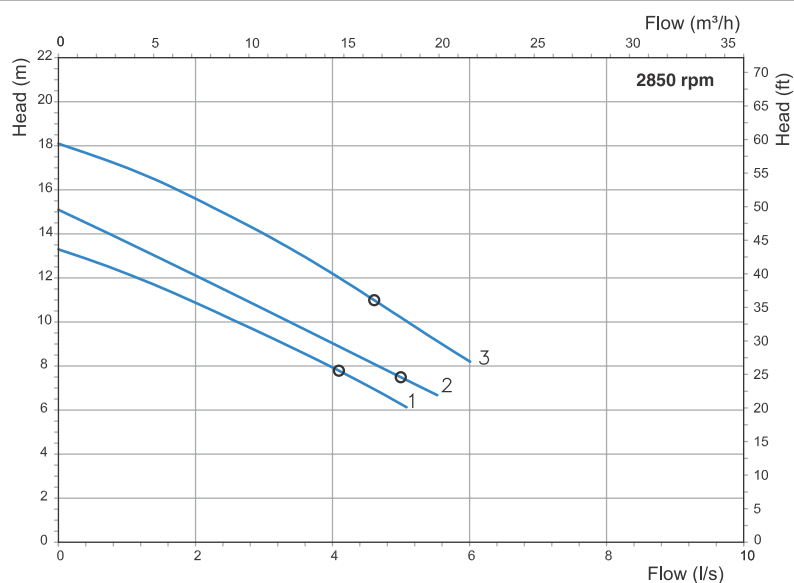
* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



FGb 50



PERFORMANCE CURVES



PERFORMANCE TABLE

No	Model - Type	P1 kW	P2 kW	Vol lt	mF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	I/sec m³/h	0	1	2	3	4	5	6
1	FGb 50.0,8-2 m/A ●	1	0.8	230	22	4.6	2850	50	40	Head in m	13.3	12.2	10.8	9.3	7.9	6.2	
1	FGb 50.0,8-2	1	0.8	400		2.1	2850	50	40		13.3	12.2	10.8	9.3	7.9	6.2	
2	FGb 50.1,2-2 ms/A	1.6	1.2	230	30	7.1	2850	50	40		15.1	13.6	12.1	10.5	9	7.4	6
3	FGb 50.1,2-2	1.6	1.2	400		3.1	2850	50	40		18.1	17	15.6	14	12.2	10.2	8.2

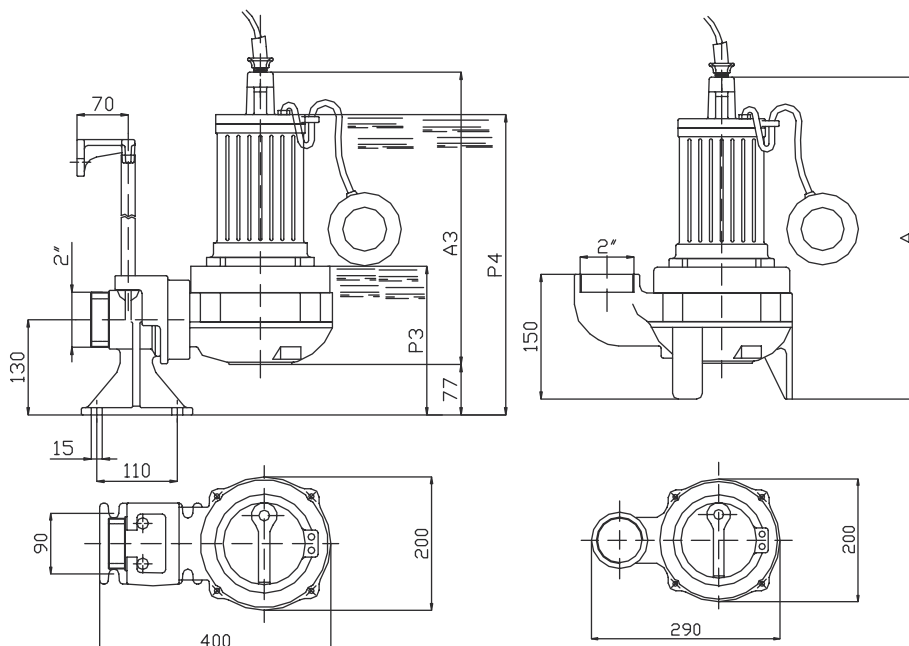
● Inbuilt capacitor hence separate control box is not required.

DIMENSION & WEIGHT DATA

No	Model - Type	A max	A3 max	E	F3	H	DN2	DN4	P3	P4	Auto coupling V	Weight (kg)	Power Cable	
													No. of Core	Size in Sq.mm
1	FGb 50.0,8-2 m/A	410	368	77	150	290	2"	2"	250	445	50	22	4	1-5
1	FGb 50.0,8-2	410	368	77	150	290	2"	2"	250	445	50	22	4	1-5
2	FGb 50.1,2-2 ms/A	430	388	77	150	290	2"	2"	270	465	50	23.5	4	1-5
3	FGb 50.1,2-2	430	388	77	150	290	2"	2"	270	465	50	23.5	4	1-5

* All the above models can be supplied with auto coupling option. Suffix "P" in the respective model to denote the same.

DIMENSION DRAWING

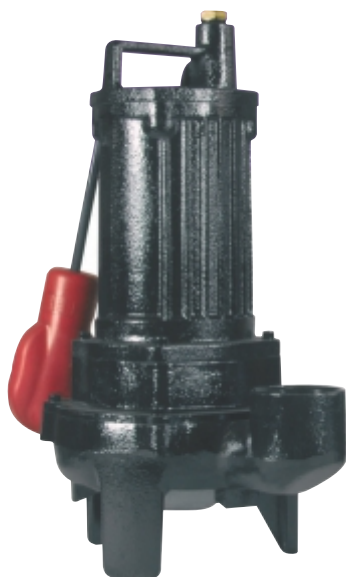


Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.

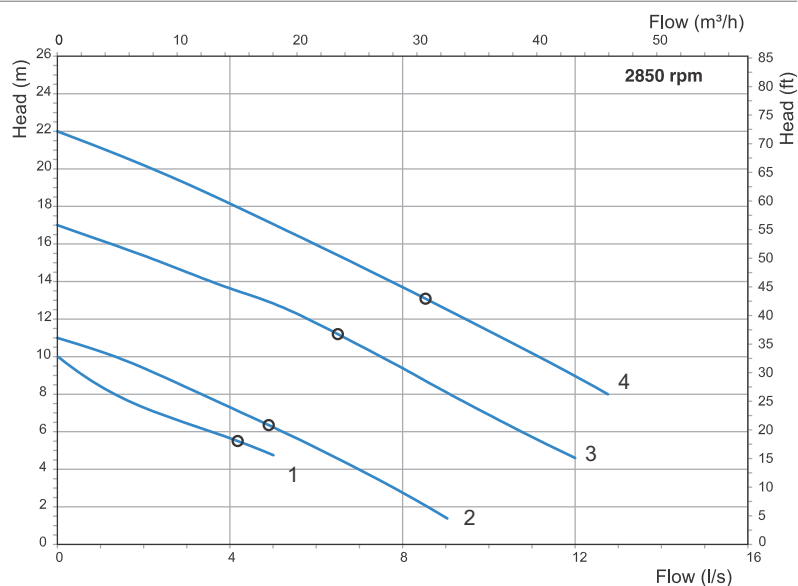
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGb 65



PERFORMANCE CURVES



PERFORMANCE TABLE

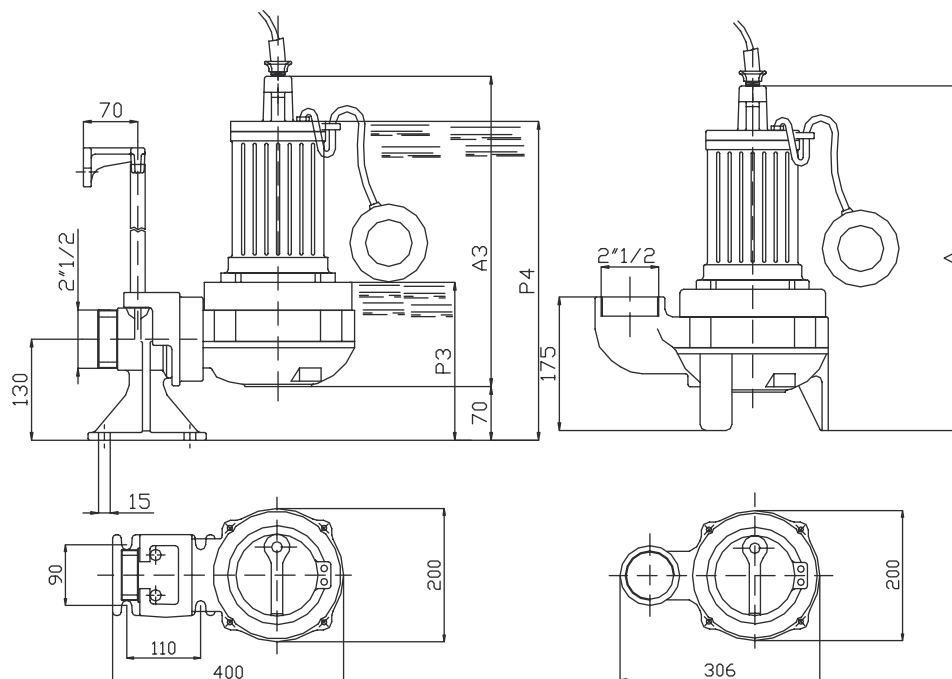
No	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max Solid size (mm)	I/sec m³/h	0	1	2	3	4	5	6	7	8	9	10	11	12
1	FGb 65.0,8-2	1	0.8	400		2.1	2850	65	55	Head in m	10	8.8	7.6	6.5	5.4	4.3	3.1	2.0	0.9				
2	FGb 65.1,2-2 ms/A	1.6	1.2	230	30	7.1	2850	65	55		11	10.2	9.3	8.3	7.3	6.2	5.1	4	2.7	1.4			
2	FGb 65.1,2-2	1.6	1.2	400		3.1	2850	65	55		11	10.2	9.3	8.3	7.3	6.2	5.1	4	2.7	1.4			
3	FGb 65.1,85-2	2.3	1.85	400		4	2850	65	55		17	16.2	15.4	14.5	13.6	12.9	11.8	10.6	9.4	8.1	6.9	5.7	4.6
4	FGb 65.2,6-2	3.3	2.6	400		5.9	2850	65	55		22	21.1	20.4	19.2	18.2	17	15.9	14.9	13.7	12.5	11.4	10.2	9

DIMENSION & WEIGHT DATA

No	Model - Type	A max	A3 max	E	F3	H	DN2	DN4	P3	P4	Auto coupling V	Weight (kg)	Power Cable	
													No. of Core	Size in Sq.mm
1	FGb 65.0,8-2	436	385	70	175	306	2"1/2	2"1/2	282	478	50*	23	4	1.5
2	FGb 65.1,2-2 ms/A	455	405	70	175	306	2"1/2	2"1/2	302	498	50*	24.5	4	1.5
2	FGb 65.1,2-2	455	405	70	175	306	2"1/2	2"1/2	302	498	50*	24.5	4	1.5
3	FGb 65.1,85-2	485	455	70	175	306	2"1/2	2"1/2	303	428	50*	31.5	7	1.5
4	FGb 65.2,6-2	505	455	70	175	306	2"1/2	2"1/2	397	548	50*	38	4	1.5

* All the above models can be supplied with auto coupling option. Suffix "P" in the respective model to denote the same.

DIMENSION DRAWING



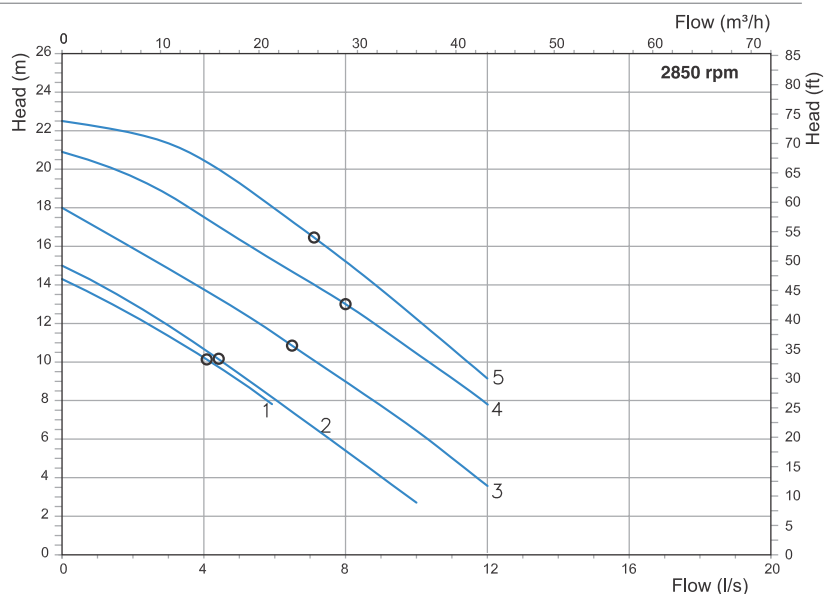
Performance curve tolerances are as per HI : 14,6 / ISO : 9906, Grade - 2B.

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FGb 600-2

PERFORMANCE CURVES



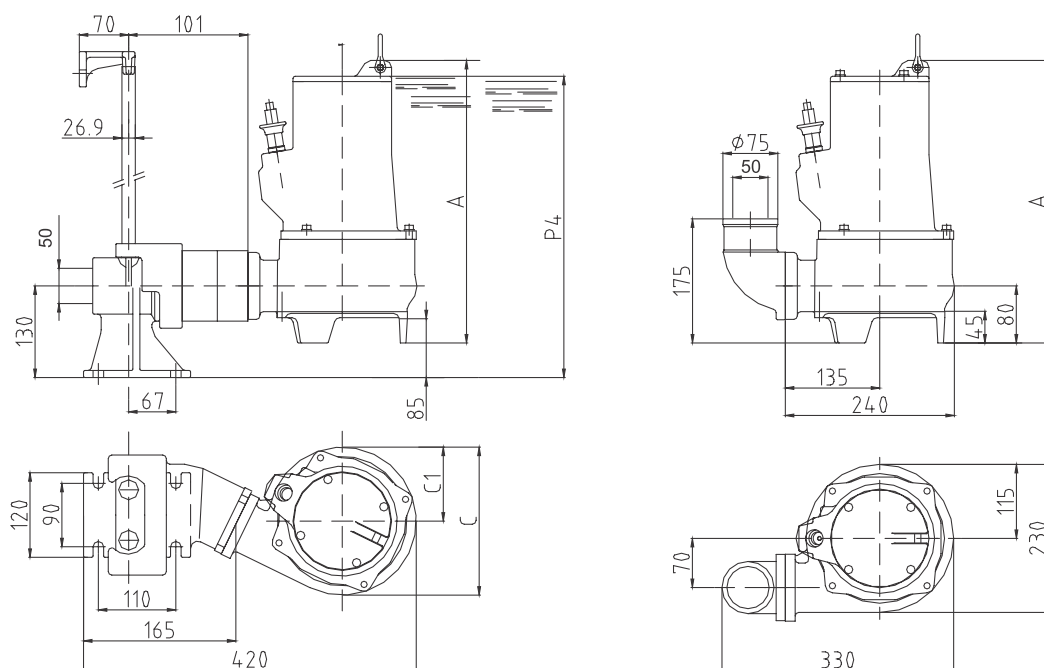
PERFORMANCE TABLE

No	Model - Type	P1 kW	P2 kW	Volt	μF	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	l/sec m³/h	0	2	4	6	8	10	12
1	FGb 615-2 ms	1.55	1.1	230	40	7.5	2850	50	40	Head in m	14.2	13.4	10.2	7.6			
2	FGb 615-2	1.45	1.1	400		3	2850	50	40		14.5	13	10.6	8.1	5.5	3	
3	FGb 625-2	2.1	1.85	400		4.4	2850	50	40		18	16	13.8	11.5	9	6.5	3.5
4	FGb 630-2	3.2	2.6	400		5.9	2850	50	40		20.9	19.6	17.5	15.2	13	10.5	7.8
5	FGb 640-2	4	3	400		7.5	2850	50	40		22	21.8	20.5	18	15.3	12.3	9

DIMENSION & WEIGHT DATA

No	Model - Type	A max	P3	P4	Auto coupling V	Weight (kg)	Power Cable	
							No. of Core	Size in Sq.mm
1	FGb 615-2 ms	400	210	435	50	31	4	1.5
2	FGb 615-2	440	250	475	50	30	4	1.5
3	FGb 625-2	400	210	435	50	32	4	1.5
4	FGb 630-2	440	225	475	50	35	4	1.5
5	FGb 640-2	465	230	500	50	45	4	1.5

DIMENSION DRAWING



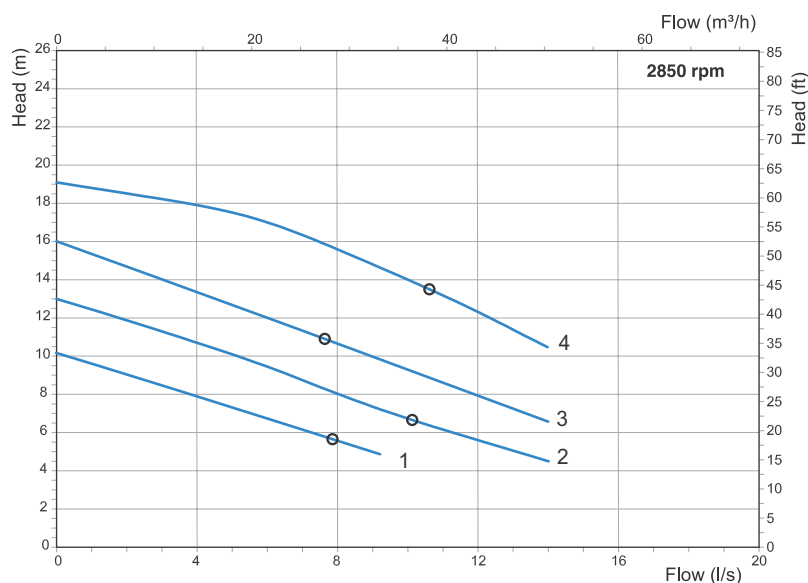
Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGb 1000-2

PERFORMANCE CURVES



PERFORMANCE TABLE

No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	I/sec m³/h	0	2	4	6	8	10	12	14
1	FGb 1016.1,1-2/116.19	1.4	1.1	400	3	2850	65	50	Head in m	10.2	9.1	7.9	6.7	5.6	4.5	43.2	50.4
2	FGb 1026.1,85-2/130.17	2.3	1.85	400	4	2850	65	50	13	11.9	10.7	9.5	8	6.7	5.6	4.5	4.5
3	FGb 1031.2,6-2/140.16	3.2	2.6	400	5.8	2850	65	50	16	14.7	13.4	11.9	10.6	9.3	7.9	6.6	6.6
4	FGb 1056.4-2/160.19	4.9	4	400	9	2850	65	50	19.1	18.5	17.9	17	15.6	14	12.3	10.4	10.4

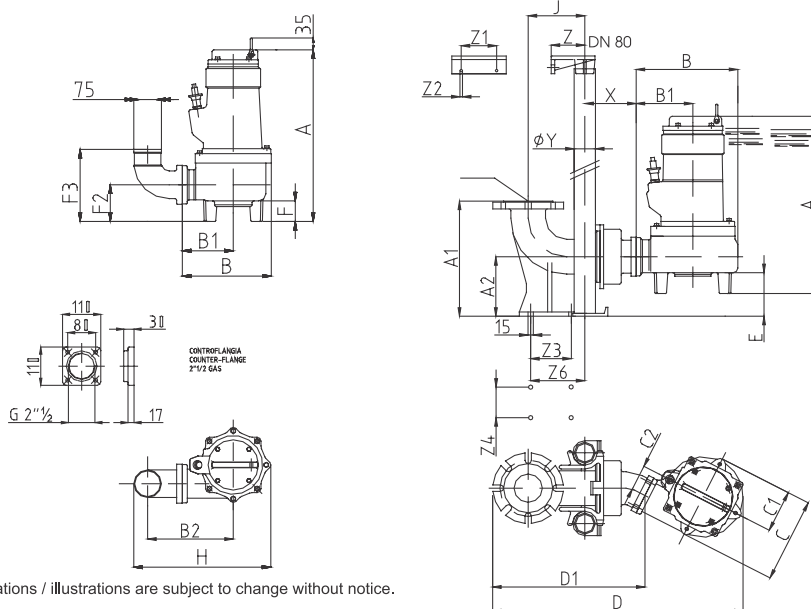
DIMENSION & WEIGHT DATA

No	Model - Type	A max	A1	A2	B	B1	B2	C	C1	C2	D	D1	E	H	J	X	Y	Z	Z1	Z3	Z4	Z6	DN3	P3	P4	Auto coupling V	Weight (kg)
1	FGb 1016.1,1-2/116.19	479	300	160	250	154	255	220	110	55	635	355	56	400	134	130	42.4	84	100	90	100	140	65	320	510	65	31
2	FGb 1026.1,85-2/130.17	479	300	160	250	154	255	220	110	55	635	355	56	400	134	130	42.4	84	100	90	100	140	65	320	510	65	33
3	FGb 1031.2,6-2/140.16	485	300	160	250	154	255	220	110	55	635	355	56	400	134	130	42.4	84	100	90	100	140	65	310	525	65	40
4	FGb 1056.4-2/160.19	505	325	168	270	148	258	240	120	72	707	430	64	425	160	145	60.3	95	150	120	120	175	80	345	555	80	51

ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	FGb 1016.1,1-2/116.19	4	1.5	NA	V65	121058	NA	NA	SQUARE FLANGE 2½"
2	FGb 1026.1,85-2/130.17	4	1.5	NA	V65	121058	NA	NA	SQUARE FLANGE 2½"
3	FGb 1031.2,6-2/140.16	4	1.5	NA	V65	121058	NA	NA	SQUARE FLANGE 2½"
4	FGb 1056.4-2/160.19	4	1.5	NA	V80	121060	NA	NA	SQUARE FLANGE 2½"

DIMENSION DRAWING



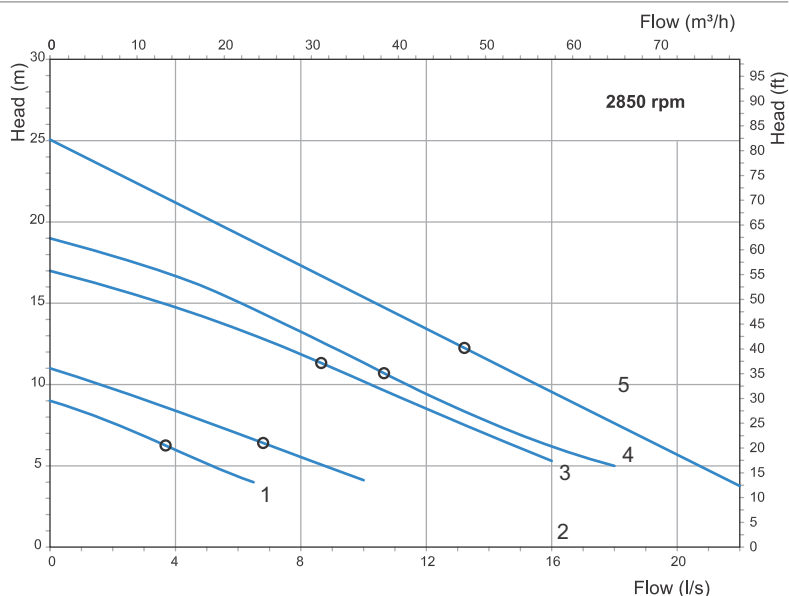
Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.

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FGb 1000-2

PERFORMANCE CURVES



PERFORMANCE TABLE

No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec m³/h	0	2	4	6	8	10	12	14	16	18	20	22
1	FGb 1014.1,1-2/124.22	1.3	1.1	400	3	2850	65	55	Head in mm	9	7.7	6.5	5.2	3.9	2.7	1.4	0.2				
2	FGb 1025.1,85-2/132.22	2.2	1.85	400	4	2850	65	55		11	9.6	8.3	6.9	5.6	4.8	2.9	1.5	0.2			
3	FGb 1030.2,6-2/155.22	3.2	2.6	400	5.8	2850	65	55		17	16	15	13.8	12	10.5	8.4	7	5.3			
4	FGb 1057.4-2/160.22	4.9	4	400	9	2850	65	55		19	18	16.9	15.1	12.8	11.4	9.3	7.6	6	5		
5	FGb 1077.5,5-2/160.24	6.8	5.5	400	12	2850	65	55		27	25.1	23.2	21.2	19.3	17.4	15.5	13.6	11.7	9.7	5.8	3.9

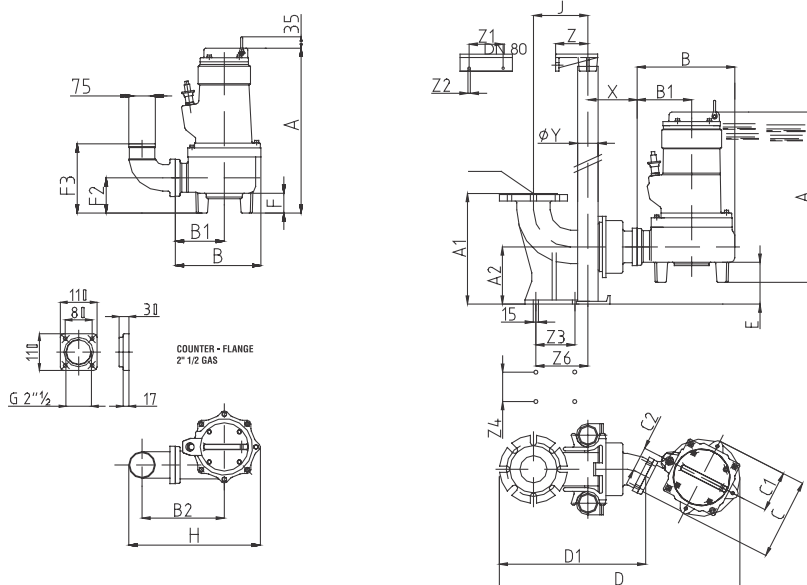
DIMENSION & WEIGHT DATA

No	Model - Type	A max	A1	A2	B	B1	B2	C	C1	C2	D	D1	E	F	F2	F3	H	J	X	Y	Z	Z1	Z2	Z3	Z4	Z6	DN3	P3	P4	Auto coupling V	Weight (kg)
1	FGb 1014.1,1-2/124.22	470	300	160	250	145	242	220	110	55	635	355	56	59	105	205	400	134	130	42.4	84	100	12	90	100	132	65	310	510	65	25
2	FGb 1025.1,85-2/132.22	470	300	160	250	145	242	220	110	55	635	355	56	59	105	205	400	134	130	42.4	84	100	12	90	100	132	65	320	515	65	25
3	FGb 1030.2,6-2/155.22	485	300	160	250	145	242	220	110	55	635	355	56	59	105	205	400	134	130	42.4	84	100	14	90	100	140	65	320	525	65	40
4	FGb 1057.4-2/160.22	505	325	168	270	148	258	240	220	72	707	430	64	59	105	205	425	160	145	60.3	95	150	14	120	120	175	80	345	555	80	51
5	FGb 1077.5,5-2/160.24	590	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	345	620	80	58

ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	FGb 1014.1,1-2/124.22	4	1.5		NA	V65	121058	NA	SQUARE FLANGE 2½"
2	FGb 1025.1,85-2/132.22	4	1.5		NA	V65	121060	NA	SQUARE FLANGE 2½"
3	FGb 1030.2,6-2/155.22	4	1.5		NA	V65	121058	NA	SQUARE FLANGE 2½"
4	FGb 1057.4-2/160.22	4	1.5		NA	V80	121060	NA	SQUARE FLANGE 2½"
5	FGb 1077.5,5-2/160.24	4	1.5		NA	V80	121060	NA	SQUARE FLANGE 2½"

DIMENSION DRAWING

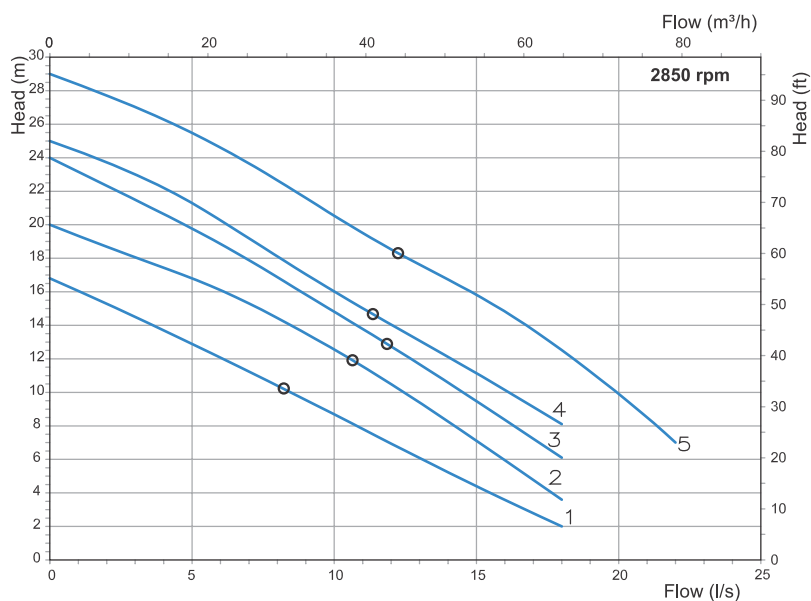


Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGb 75-2

PERFORMANCE CURVES



PERFORMANCE TABLE

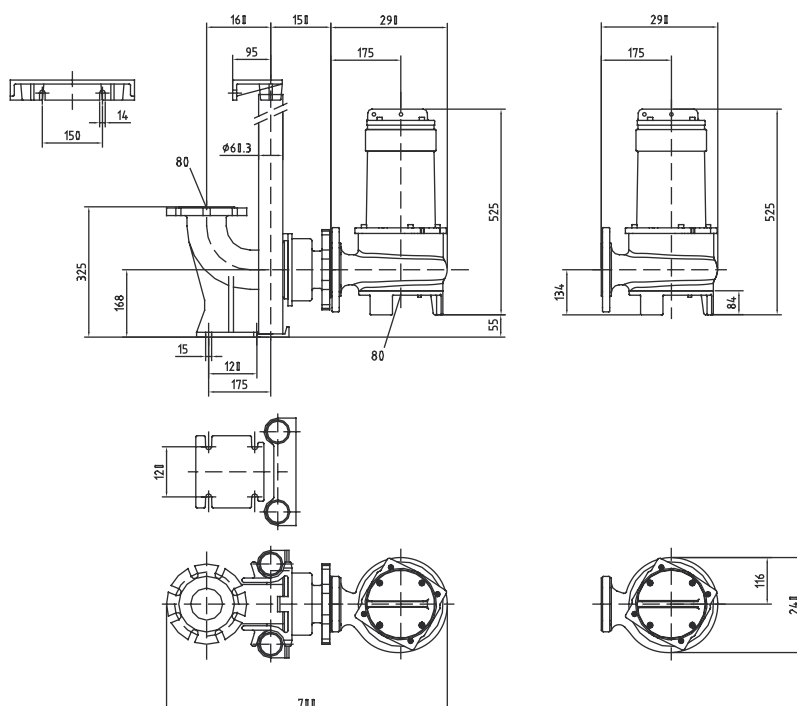
No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec m³/h	0	3	6	9	12	15	18	21	22
1	FGb 75.1,85-2/130.17	2.3	1.85	400	4	2850	80	50	Head in m	16.8	14.5	12	9.5	43.2	54	64.8	75.6	79.2
2	FGb 75.2,6-2/145.21	3.3	2.6	400	5.8	2850	80	50		20	18	16.1	13.5	10.5	6.5	3.5		
3	FGb 75.3-2/160.19	3.7	3	400	6.1	2850	80	50		24	21.5	19	15.8	12.8	9.5	6.1		
4	FGb 75.4-2/148.32	4.9	4	400	9	2850	80	50		25	23	20.3	17	14	11.2	8.1		
5	FGb 75.5,5-2/158.32*	6.8	5.5	400	12	2850	80	50		29	27	24.6	21.6	18.5	15.8	12.5	8.5	7

* Inbuilt with TOP

DIMENSION & WEIGHT DATA

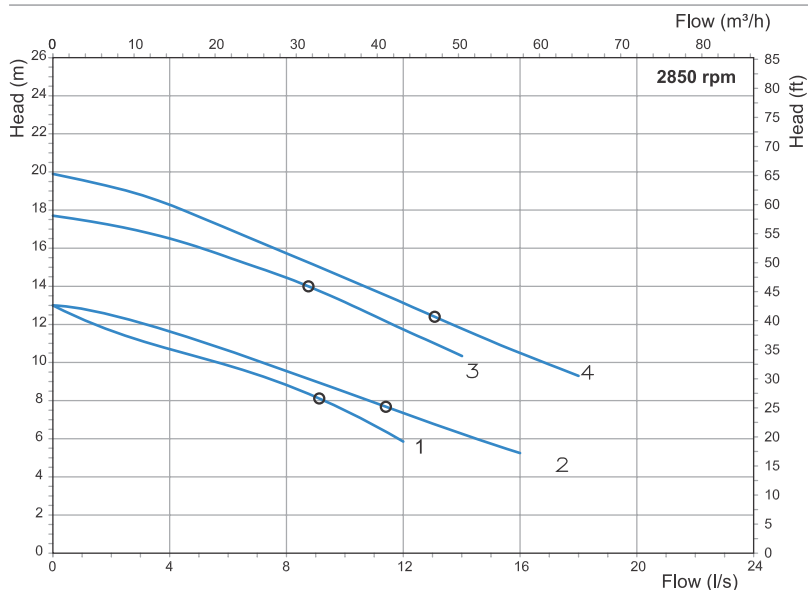
No	Model - Type	A max	Auto coupling V	Weight (kg)	Power Cable	
					No. of Core	Size in Sq.mm
1	FGb 75.1,85-2/130.17	507	80N	42	4	1.5
2	FGb 75.2,6-2/145.21	507	80N	44	4	1.5
3	FGb 75.3-2/160.19	513	80N	45	4	1.5
4	FGb 75.4-2/148.32	513	80N	49	4	1.5
5	FGb 75.5,5-2/158.32*	563	80N	57	12	1.5

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



PERFORMANCE TABLE

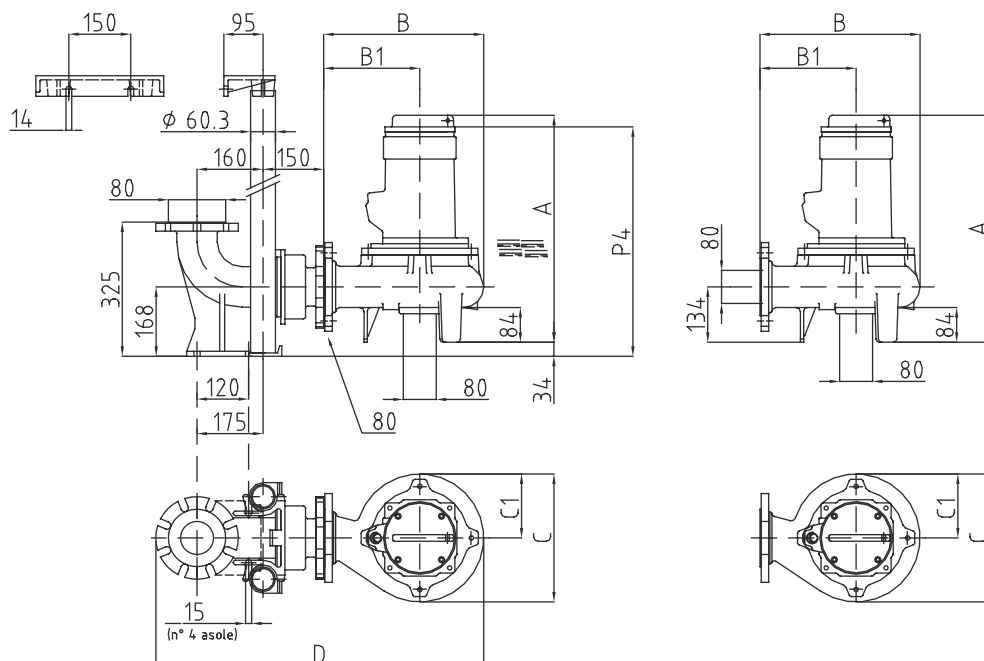
No	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	I/sec	0	2	4	6	8	10	12	14	16	18	
										m³/h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6	64.8	
1	FGb 80.1,85-2/140.16	2.3	1.85	400		4.4	2850	80	70	Head in m	13	11.8	10.7	9.7	8.6	7.4	5.8				
2	FGb 80.2,6-2/140.160	3.2	2.6	400		5.5	2850	80	70		13	12.5	11.8	10.6	9.5	8.3	7.2	6.3	5.3		
3	FGb 80.4-2/160.19	5	4	400		8.9	2850	80	70		17.7	17.2	16.5	15.4	14.5	13.2	11.7	10.4			
4	FGb 80.5,5-2/160.19	7	5.5	400		12	2850	80	70		19	18.2	17.3	16.2	15.2	14.5	13.2	11.7	10.5	9.3	

* Inbuilt with TOP

DIMENSION & WEIGHT DATA

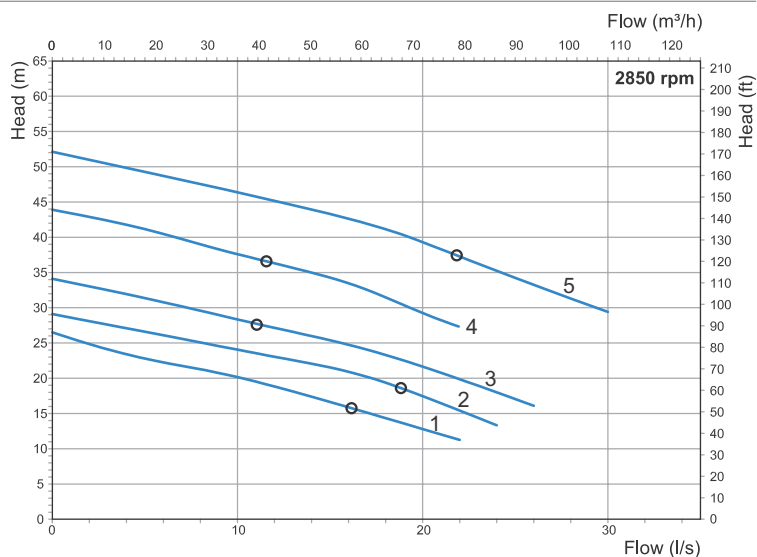
No	Model - Type	A max	B	B1	C	C1	D	P4	Auto coupling V	Weight (kg)	Power Cable	
											No. of Core	Size in Sq.mm
1	FGb 80.1.85-2/140.16	540	380	180	212	106	690	546	80N	62	4	1.5
2	FGb 80.2.6-2/140.160	540	280	180	212	108	690	596	80N	62	4	1.5
3	FGb 80.4-2/160.19	560	385	230	310	155	795	616	80N	68	4	1.5
4	FGb 80.5.5-2/160.19	610	385	230	310	155	795	666	80N	70	12	1.5

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906. Grade - 2B.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



No	Model - Type	P1 kW	P2 kW	VoIt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	I/sec m³/h	0	4	8	12	16	20	24	28
										0	14	29	43.2	57.6	72	86.4	100.8
1	FGb 80.7.5-2/155.40 *	9.3	7.5	400	16	2850	80	70	Head in m	29.1	22	19	16	13	9.8		
2	FGb 80.9.5-2/160.40 *#	10.8	9.5	400	19	2850	80	70		29.1	27.1	25.1	23	20.9	17.5		
3	FGb 80.11-2/180.40 *#	13.5	11	400	22	2850	80	70		34.1	32	29.6	27.1	24.9	21.8	18	
4	FGb 80.19-2/215.35 *#	22	19	400	37	2850	80	70		43.9	41.8	39	36.3	33.5	29.3		
5	FGb 80.24-2/220.40 *#	27.5	24	400	46	2850	80	70		52.1	49.7	47.4	45.1	42.6	39.2	35.1	31.2

DIMENSION & WEIGHT DATA

No	Model - Type	A max	A3 max	B	B1	C	C1	D	E	P2	P4	R max	T max	U max	V1	V2	Auto coupling V	Weight (kg)
1	FGb 80.7,5-2/155.40 *	643	775	365	220	312	147	780	71	420	700	740	738	843	260	320	80N	118
2	FGb 80.9,5-2/160.40 *#	690	775	365	220	312	147	780	71	420	745	740	738	843	260	320	80N	147
3	FGb 80.11-2/180.40 *#	690	775	365	220	312	147	780	71	420	745	740	738	843	260	320	80N	148
4	FGb 80.19-2/215.35 **	945	945	410	252	316	158	820	90	450	960	1050	1075	1180	310	370	80N	176
5	FGb 80.24-2/220.40 **	1035	1035	410	252	316	158	820	90	450	1050	1050	1075	1180	310	370	80N	206

ACCESSORIES DETAILS & IDENTIFICATION CODE

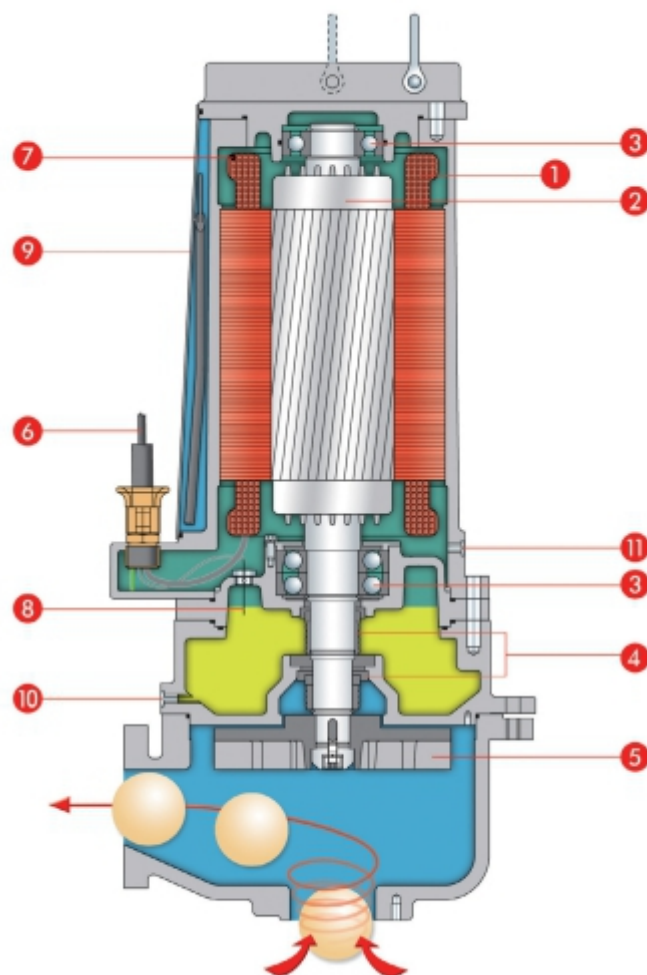
No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	FGb 80.7-5-2/155.40 *	12	1.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
2	FGb 80.9-5-2/160.40 *#	7	2.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
3	FGb 80.11-2/180.40 *#	7	2.5	NA	V80N	121059	NA	NA	ROUND FLANGE 3"
4	FGb 80.19-2/215.35 **	4	4	NA	V80N	121059	BAP80-100	117184	ROUND FLANGE 3"
5	FGb 80.24-2/220.40 *#	4	4	NA	V80N	121059	BAP80-100	117184	ROUND FLANGE 3"

[illegible]

18



Cross Section Drawing



- | | |
|--|---|
| 1. Fully submersible pressure tight electric motor | 7. Thermal over load protector |
| 2. Rotor Shaft | 8. Oil chamber probe (optional) |
| 3. Bearings | 9. Cooling jacket |
| 4. Mechanical seal | 10. Oil inspection plug |
| 5. Vortex Impeller | 11. Air plug hole for the motor water tightness control |
| 6. Cable | |

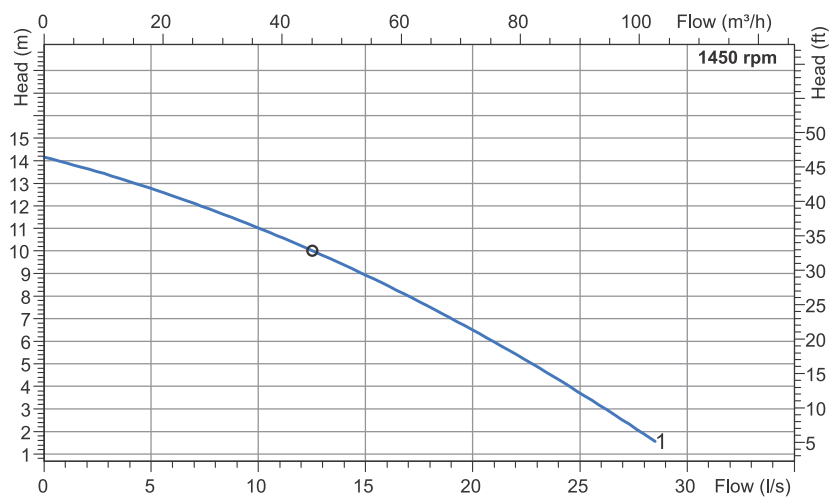
* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



FGb 3000-4



PERFORMANCE CURVES



PERFORMANCE TABLE

No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	I/sec m³/h	0	4	8	12	16	20	24	28
1	FGb 3149.3,5-4/210.45*	4.5	3.5	400	8	1450	67	55	H m	14	12.8	11.6	10.2	8.6	6.6	4.4	1.7

* Inbuilt with TOP

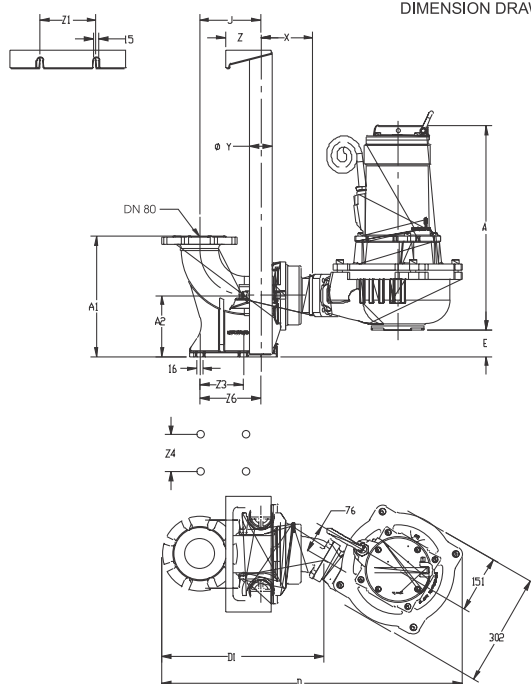
DIMENSION & WEIGHT DATA

No	Model - Type	A max	A1	A2	D	D1	E	j	X	y	Z	Z1	Z3	Z4	Z6	Auto coupling V	Weight (kg)
1	FGb 3149.3,5-4/210.45*	547	300	160	732	361	68	130	139	42.4	84	100	90	100	137	65	78

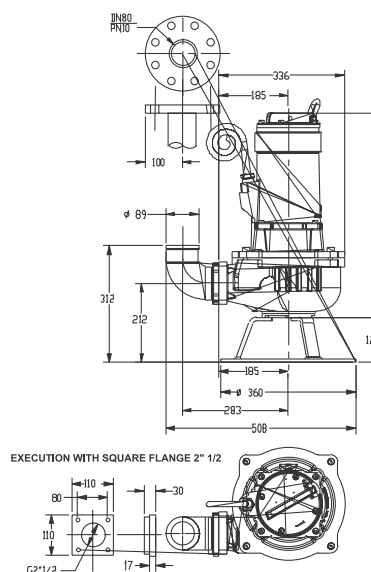
ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm							
1	FGb 3149.3,5-4/210.45*	7	1.5	NA	V80	121060	BAP65	117181	117842	SQUARE FLANGE 2 1/2"

DIMENSION DRAWING



DIMENSION DRAWING



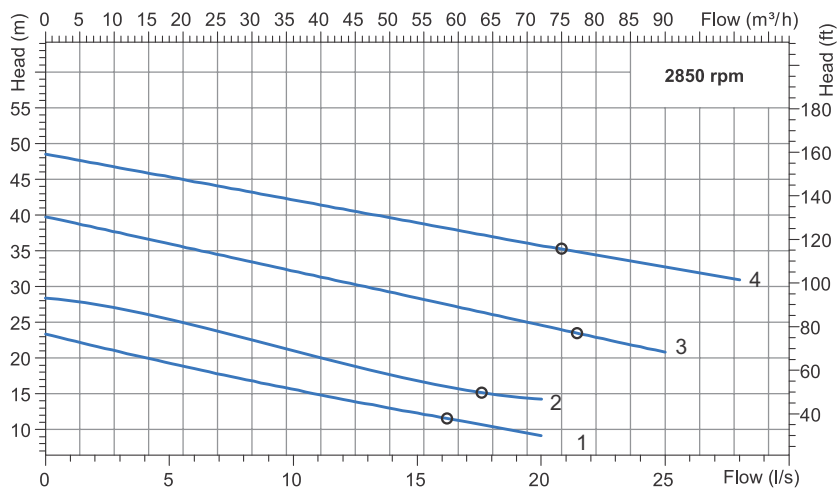
Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGb 3000-2

PERFORMANCE CURVES



PERFORMANCE TABLE

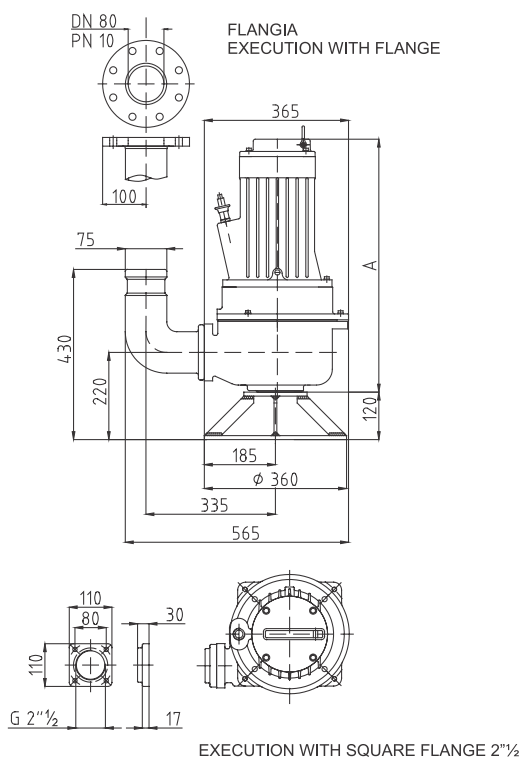
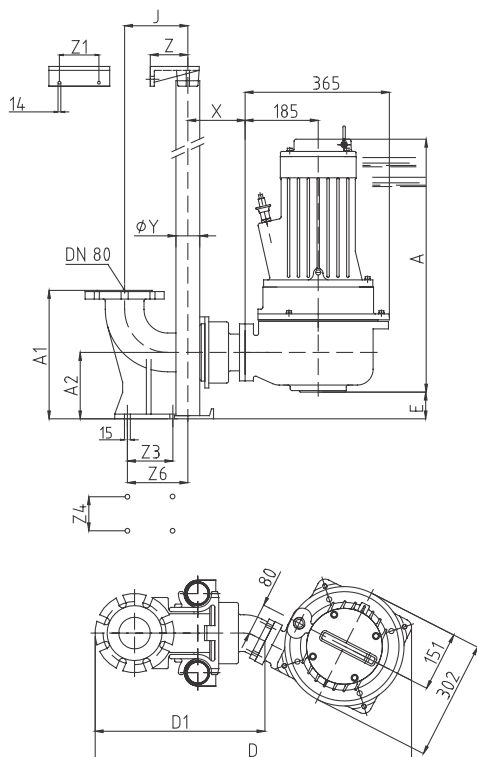
No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec m³/h	0	4	8	12	16	20	24	28
1	FGb 3077.5,5-2/150.35*#	6.8	5.5	400	12	2850	67	57	Head in m	23.3	20	17	14	11.8	9		
2	FGb 3107.7,5-2/155.40*#	9.5	7.5	400	16	2850	67	57		28.6	26.1	23.1	20	17	14		
3	FGb 3151.11-2/180.35*#	12.5	11	400	22	2850	67	57		38.9	36.7	35	32	28.1	24.3	20.6	
4	FGb 3201.15-2/205.35*#	16.5	15	400	30	2850	67	57		48	46	43.1	41	38.1	35.7	33.2	31

* Inbuilt with TOP / # Moisture sensor available

DIMENSION & WEIGHT DATA

No	Model - Type	A max	Auto coupling V	Weight (kg)	Power Cable		Base Frame Model
					No. of Core	Size in Sq.mm	
1	FGb 3077.5,5-2/150.35	596	80	84	12	1.5	BAP65
2	FGb 3107.7,5-2/155.40	640	80	112	12	1.5	BAP65
3	FGb 3151.11-2/180.35	658	80	131	7	2.5	BAP65
4	FGb 3201.15-2/205.35	734	80	157	4	4	BAP65
5	FGb 3251.18,5-2/220.40	734	80	167	4	4	BAP65

DIMENSION DRAWING

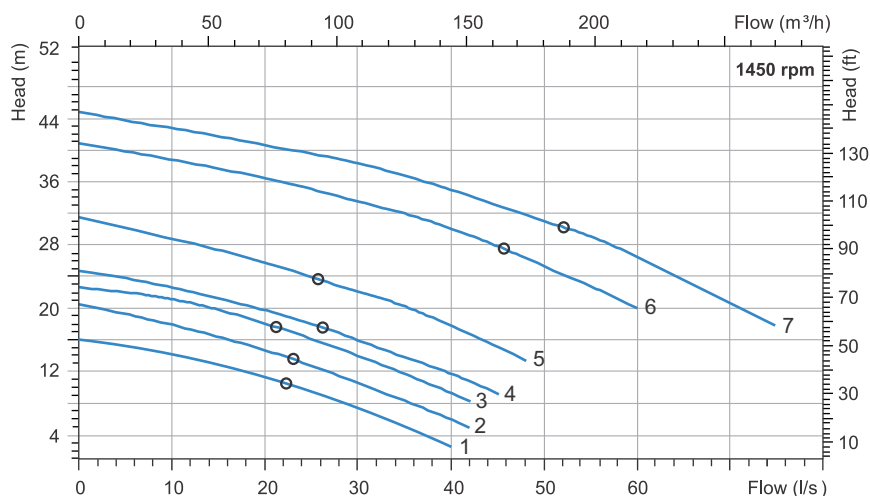


Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGb 4000-4

PERFORMANCE CURVES



PERFORMANCE TABLE

No	Model - Type	P1 kW	P2 kW	Vol	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec	0	5	15	25	30	35	40	45	50	55	60	65	70	75
1	FGb 4082.6-4/235.62	7	6	400	13.8	1450	100	90	Head in m	16	15.2	12.8	9.6	7.6	5.3	2.7							
2	FGb 4107.7,5-4/265.55*#	9	7.5	400	16	1450	100	90		20.5	19.4	16.5	12.6	10.5	8.4	6							
3	FGb 4151.11-4/280.52*#	12.5	11	400	22	1450	100	90		22.5	22	19.6	16	13.7	11.4	9.2							
4	FGb 4190.14-4/290.55*#	17	14	400	30	1450	100	90		24.5	23.5	21.2	18	15.7	13.6	11.5	9.1						
5	FGb 4231.17-4/315.55*#	21.5	17	400	35	1450	100	90		31.5	30.1	27.3	24.1	22.4	20	17.6	15.1						
8	FGb 4350.26-4/325.55*#	30	26	400	50	1450	100	90		38.5	37.7	35	32.1	30.2	28.2	25.8	23.2	20.2	16.5	12.5			
6	FGb 4401.34-4/350.55*#	39	34	400	68	1450	100	90		41.5	39.9	37.9	35.5	33.6	31.9	30	27.7	25.2	23	20			
7	FGb 4651.48-4/363.55*#	54.5	48	400	88	1450	100	90		44.5	43.6	41.8	39.6	38.2	36.7	34.9	33	31	29	26.8	23.6	20.8	18

* Inbuilt with TOP / # Moisture sensor available.

ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm						
1	FGb 4082.6-4/235.62	-	-	-	1.5	V100	121062	BAP80-100	117184	249087	SQUARE FLANGE 4"
2	FGb 4107.7,5-4/265.55	12	1.5	NA	1.5	V100	121062	BAP80-100	117184	249087	SQUARE FLANGE 4"
3	FGb 4151.11-4/280.52	7	2.5	4	1.5	V100	121062	BAP80-100	117184	249087	SQUARE FLANGE 4"
4	FGb 4190.14-4/290.55	7	4	4	1.5	V100	121062	BAP80-100	117184	249087	SQUARE FLANGE 4"
5	FGb 4231.17-4/315.55	4	4	4	1.5	V100	121062	BAP80-100	117184	249087	SQUARE FLANGE 4"
8	FGb 4350.26-4/325.55	4	6	4	1.5	V100	121062	BAP80-100	117184	249087	SQUARE FLANGE 4"
6	FGb 4401.34-4/350.55	4	10	4	1.5	V100	121062	BAP80-100	117184	249087	SQUARE FLANGE 4"
7	FGb 4651.48-4/363.55	4	10	4	1.5	V100	121062	BAP80-100	117184	249087	SQUARE FLANGE 4"

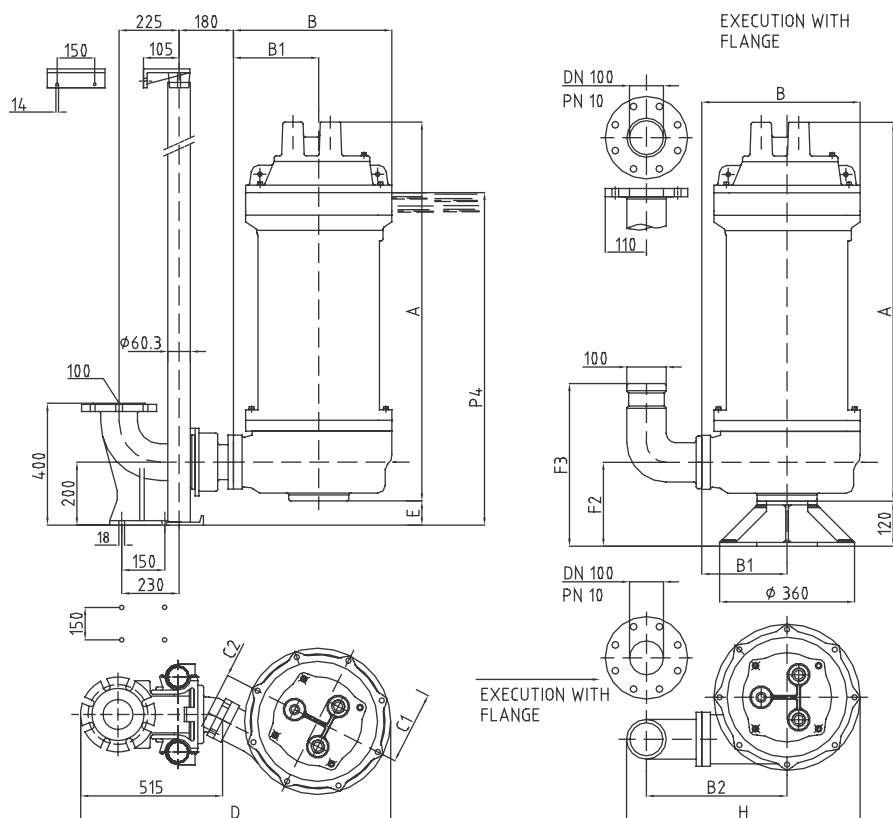
Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGb 4000-4

DIMENSION DRAWINGS



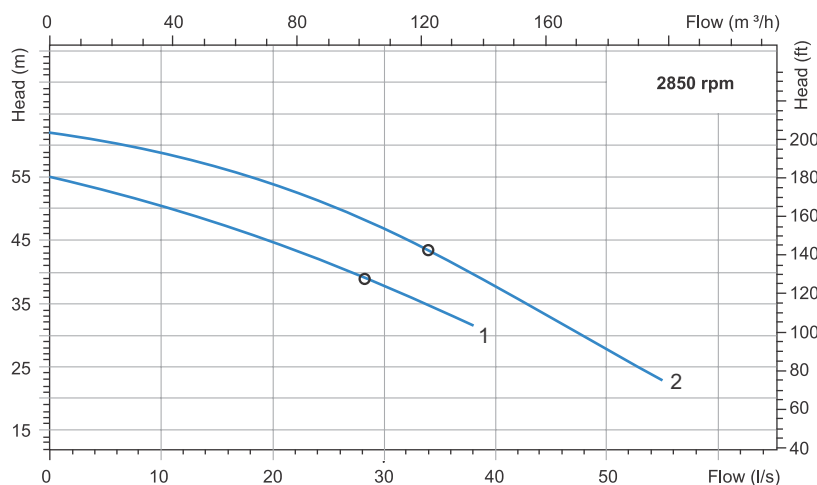
DIMENSION & WEIGHT DATA																
No	Model - Type	A max	B	B1	B2	C	C1	C2	D	E	F3	F2	H	P4	Auto coupling V	Weight (kg)
1	FGb 4082.6-4/235.62	643	412	225	375	374	196	135	951	96	434	224	605	695	100	118
2	FGb 4107.7,5-4/265.55	643	412	225	375	374	196	135	951	96	434	224	605	695	100	126
3	FGb 4151.11-4/280.52	689	412	225	375	374	196	135	951	96	434	218	605	735	100	144
4	FGb 4190.14-4/290.55	795	541	290	440	502	251	191	1103	92	425	230	750	837	100	184
5	FGb 4231.17-4/315.55	795	541	290	440	502	251	191	1103	92	425	230	750	837	100	200
8	FGb 4350.26-4/325.55	828	541	290	440	502	251	191	1103	92	425	215	750	864	100	251
6	FGb 4401.34-4/350.55	1172	541	290	440	502	251	191	1103	92	425	230	750	1078	100	442
7	FGb 4651.48-4/363.55	1201	598	290	440	502	251	191	1111	92	425	230	750	1176	100	490

Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGb 4000-2

PERFORMANCE CURVES



PERFORMANCE TABLE

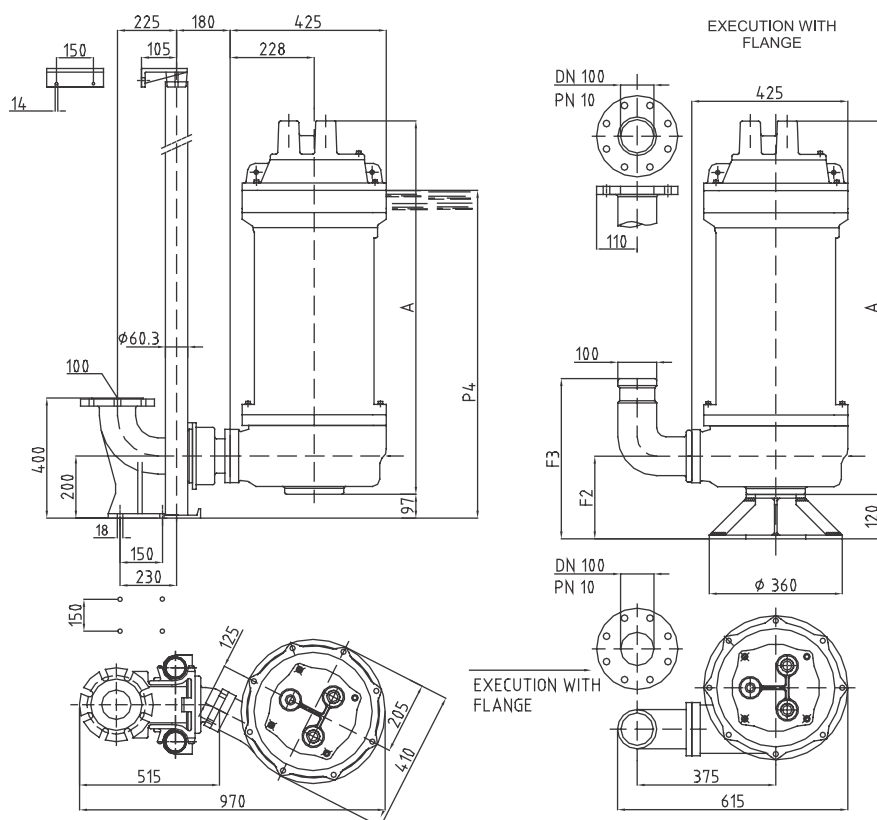
No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	l/sec m³/h	0	5	15	25	30	35	40	45	50	55
1	FGb 4501.37-2/220.55	40	37	400	67	2850	100	90	Head in m	55	54.5	51.5	45.5	40.5	34.5	28			
2	FGb 4651.48-2/240.5	52	48	400	80	2850	100	90		62	61	57.5	51.5	47	42.5	38	33.5	28	23

* Inbuilt with TOP / # Moisture sensor available.

ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm						
1	FGb 4501.37-2/220.55	4	6	4	1.5	V100	121062	BAP100	117183	249087	SQUARE FLANGE 4"
2	FGb 4651.48-2/240.5	4	10	4	1.5	V100	121062	BAP100	117183	249087	SQUARE FLANGE 4"

DIMENSION DRAWING



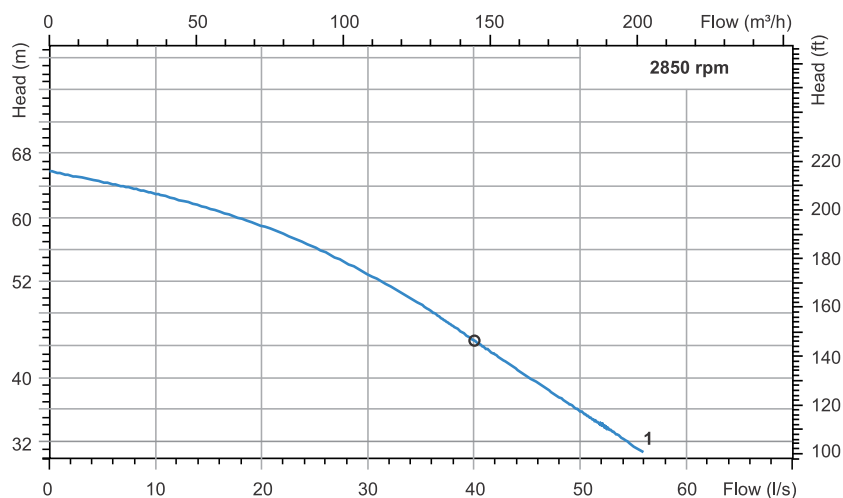
Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGb 4000-2

PERFORMANCE CURVES



PERFORMANCE TABLE

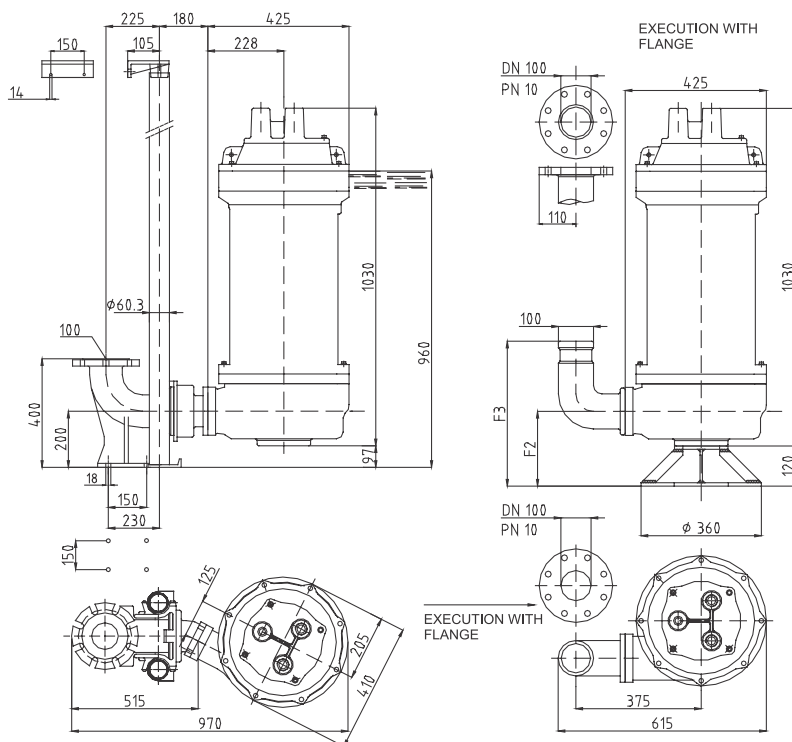
No	Model - Type	P1 kW	P2 kW	VoIt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec m³/h	0	5	15	25	30	35	40	45	50	55	60
1	FGb 4668.50-2/240.62*#	55	50	400	89	2850	100	80	H m	65.5	64.5	61.1	56.3	52.9	49	44.7	40.5	36	31.4	30.9

* Inbuilt with TOP / # Moisture sensor available

ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm						
1	FGb 4668.50-2/240.62	4	10	4	1.5	V100	121062	BAP100	117183	249087	SQUARE FLANGE 4"

DIMENSION DRAWING



Performance curve tolerances are as per HI : 14.6 / ISO : 9906, Grade - 2B.
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FGa Series

FGa series pumps are equipped with vortex impeller. The benefit of a vortex impeller over a channel impeller is the minimised risk of clogging. A Vortex impeller is also a better choice when the pumped liquid has a high content of sand. FGa Series pumps have large free passage upto 3" in diameter suitable for lifting of sewage liquids, civil waste and industrial waste water containing solids and viscous materials, heavy muds or fermented sludge.

Operating parameters

Max Flow	upto 115.2 m ³ /hr
Max Head	upto 13.4 m
Impeller Type	Vortex - Staright Vane
Outlet Size	50 - 100 mm
Max Solid Size	upto 80 mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm ² /s
Liquid Density	1kg/dm ³
Max. Noise level	≤ 70dB

Specifications

Power Range	1.3 to 5.5kW
Power Supply	380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	1450 rpm
Class of Insulation	H
Moisture sensor	# Available
Thermal Overload Protector	* Available
Starting Method	Three Phase - DOL & SD
Shaft Seal	Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

Material of Construction

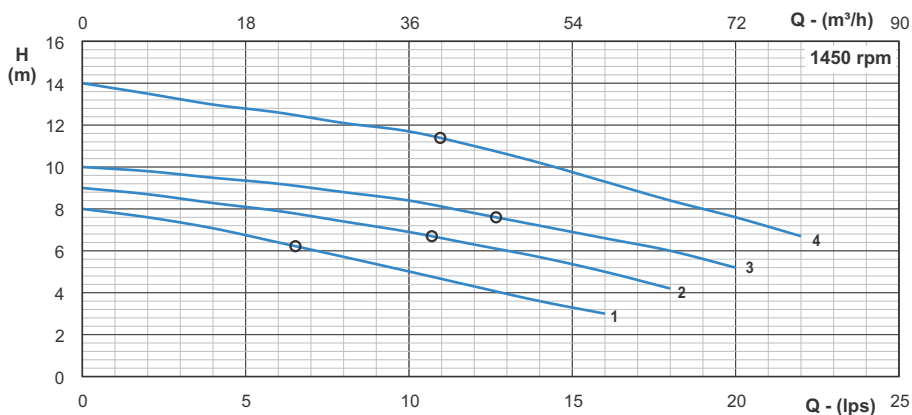
Casing	Cast iron EN-GJL-260
Impeller	Cast iron EN-GJL-260
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)



FGa 1000-4



PERFORMANCE CURVES



PERFORMANCE TABLE

No	Model - Type	P1 kW	P2 kW	Vol	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	I/sec m³/h	0	2	4	6	8	10	12	14	16	18	20	22
1	FGa 1020.1,5-4/160.16*	1.9	1.5	400	4	1450	65	55	Head	8	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	4.4	4.0	3.6
2	FGa 1032.2,2-4/163.21	2.9	2.2	400	4.8	1450	65	55	in m	9	8.7	8.3	7.9	7.4	6.9	6.3	5.7	5	4.2	-	-
3	FGa 1041.3,5-4/175.21	4	3.5	400	8	1450	65	55		10	9.8	9.5	9.2	8.8	8.4	7.8	7.2	6.6	6	5.2	-
4	FGa 1078.5-4/208.21	6.8	5.5	400	12	1450	65	55		14	13.5	13	12.6	12.1	11.7	11	10.2	9.3	8.4	7.6	6.7

* Inbuilt with TOP

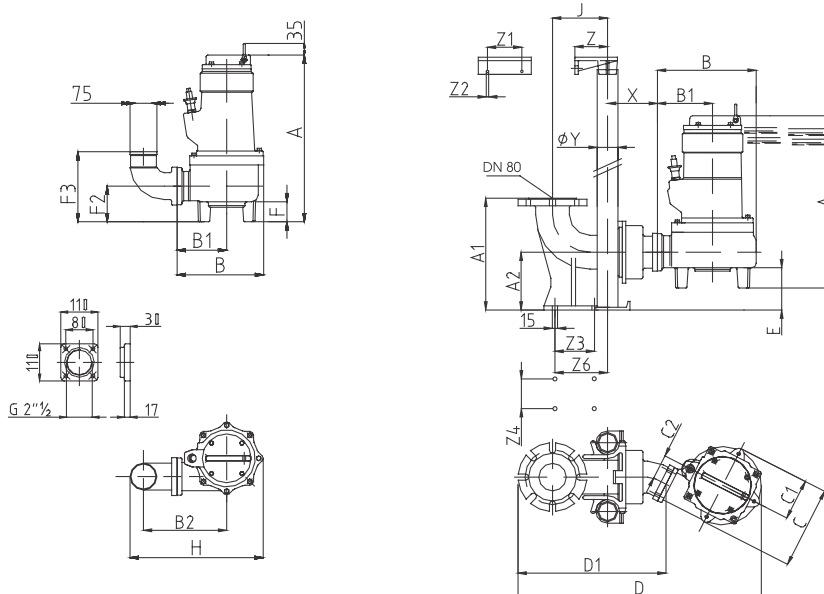
DIMENSION & WEIGHT DATA

No	Model - Type	A _{max}	A1	A2	B	B1	B2	C	C1	C2	D	D1	E	F	F2	F3	H	J	X	Y	Z	Z1	Z2	Z3	Z4	Z6	DN3	P3	P4	Auto coupling V	Weight (kg)
1	FGa 1020.1,5-4/160.16*	475	300	160	250	154	255	220	110	55	635	356	56	59	105	205	400	134	130	42.4	84	100	12	50	96	132	65	330	515	65	39
2	FGa 1032.2,2-4/163.21	540	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	300	570	80	52
3	FGa 1041.3,5-4/175.21	540	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	300	570	80	53
4	FGa 1078.5-4/208.21	590	325	168	320	165	265	300	150	106	780	430	45	80	125	225	460	160	145	60.3	95	150	14	120	120	175	80	350	620	80	58

ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump outlet flange code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm						
1	FGa 1020.1,5-4/160.16*	7	1.5	NA	V65	121058	NA	117842	SQUARE FLANGE 2½"
2	FGa 1032.2,2-4/163.21	7	1.5	NA	V80	121060	NA	117842	SQUARE FLANGE 2½"
3	FGa 1041.3,5-4/175.21	7	1.5	NA	V80	121060	NA	117842	SQUARE FLANGE 2½"
4	FGa 1078.5-4/208.21	7	1.5	NA	V80	121060	NA	117842	SQUARE FLANGE 2½"

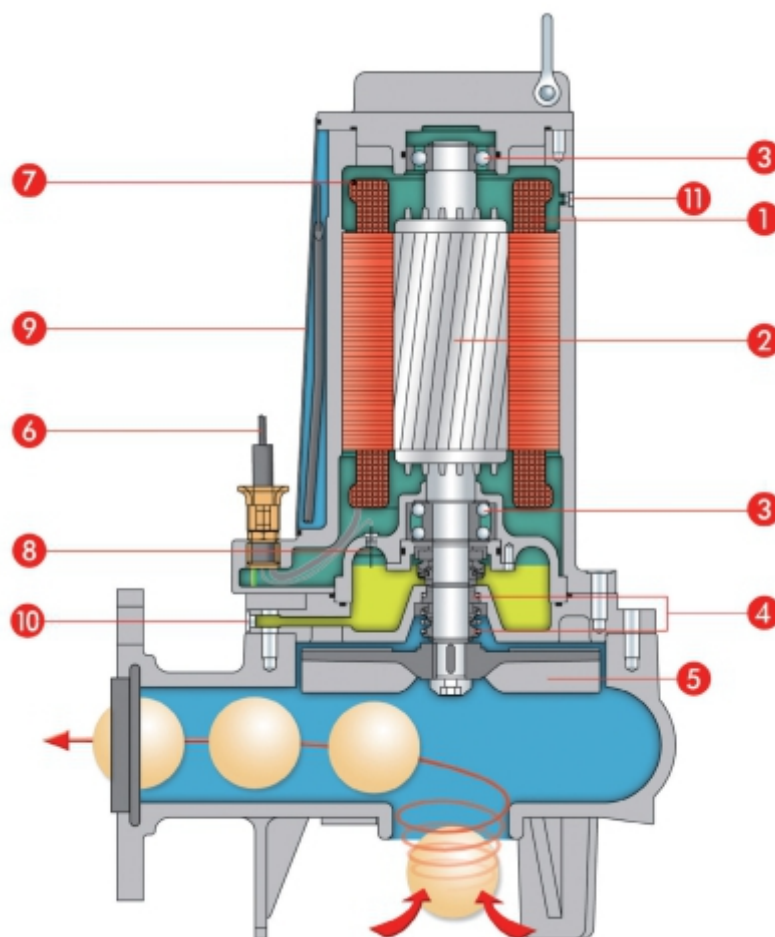
DIMENSION DRAWING



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Cross Section Drawing



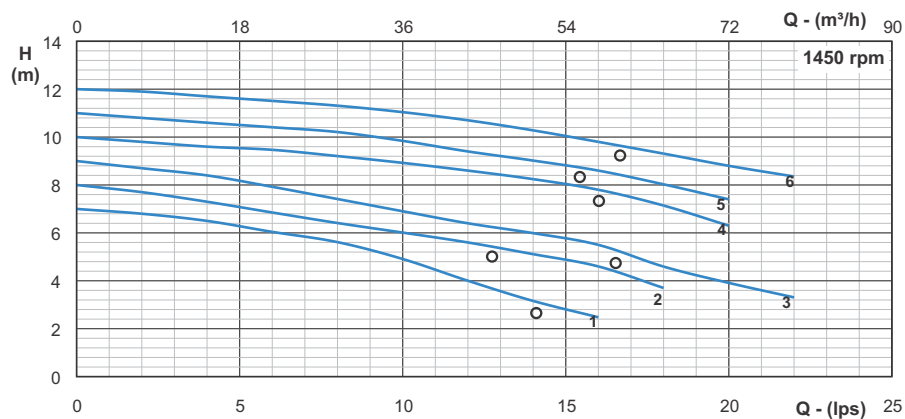
- | | |
|---|---|
| 1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68 | 6. Cable |
| 2. Rotor Shaft | 7. Thermal over load protection |
| 3. Bearings | 8. Oil chamber probe (optional) |
| 4. Mechanical seal | 9. Cooling jacket |
| 5. Vortex Impeller | 10. Oil inspection plug |
| | 11. Air Plug Hole for the motor water tightness control |

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



FGa 80-4

PERFORMANCE CURVES



PERFORMANCE TABLE

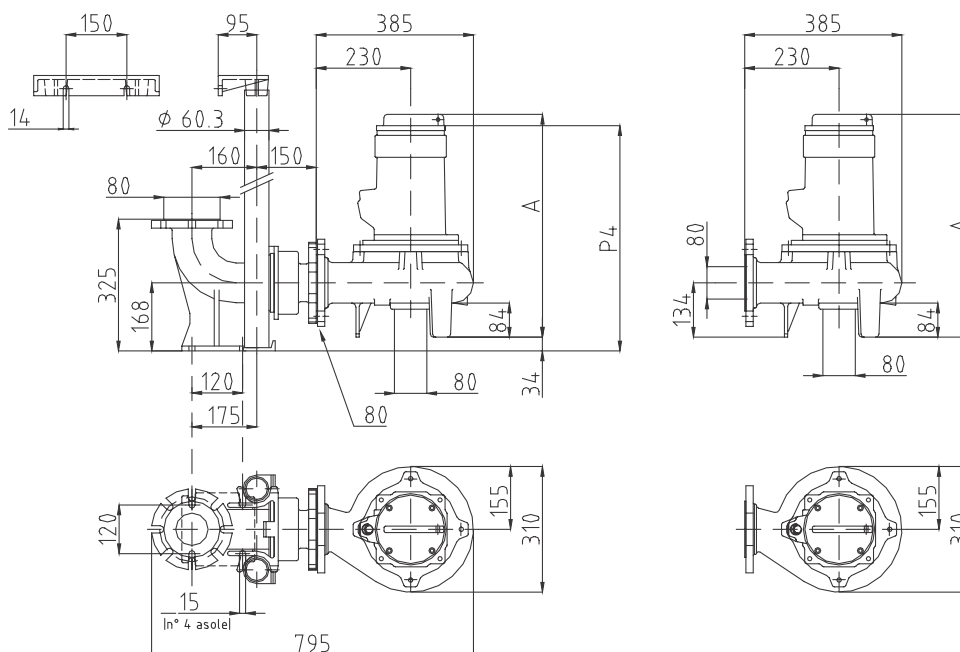
No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	l/sec m³/h	0	2	4	6	8	10	12	14	16	18	20	22
1	FGa 80.1,3-4/131.35*	1.5	1.3	400	4.2	1450	80	68	Head in m	7	6.8	6.5	6	5.6	4.9	4	3.2	2.5	-	-	-
2	FGa 80.1,7-4/144.35	1.9	1.7	400	4.5	1450	80	68		8	7.7	7.3	6.8	6.4	6	5.6	5.1	4.6	3.7	-	-
3	FGa 80.2,2-4/154.35*	2.9	2.2	400	5	1450	80	68		9	8.7	8.4	7.9	7.4	7	6.4	6	5.5	4.6	4	3.3
4	FGa 80.3-4/160.35*	3.8	3	400	7	1450	80	68		10	9.8	9.6	9.4	9.2	9	8.6	8.2	7.8	7.1	6.3	-
5	FGa 80.3,5-4/170.35*	4	3.5	400	8	1450	80	68		11	10.8	10.6	10.4	10.2	9.8	9.4	9	8.6	8	7.4	-
6	FGa 80.4,2-4/180.35*	5	4.2	400	9.2	1450	80	68		12	11.9	11.7	11.5	11.3	11	10.7	10.3	9.8	9.3	8.8	8.4

* Inbuilt with TOP

DIMENSION & WEIGHT DATA

No	Model - Type	A max	P4	Auto coupling V	Weight (kg)	Power Cable	
						No. of Core	Size in Sq.mm
1	FGa 80.1,3-4/131.35	540	560	80N	62	7	1.5
2	FGa 80.1,7-4/144.35	540	560	80N	62	7	1.5
3	FGa 80.2,2-4/154.35	540	560	80N	62	7	1.5
4	FGa 80.3-4/160.35	560	580	80N	68	7	1.5
5	FGa 80.3,5-4/170.35	540	560	80N	62	7	1.5
6	FGa 80.4,2-4/180.35	560	580	80N	68	7	1.5

DIMENSION DRAWING



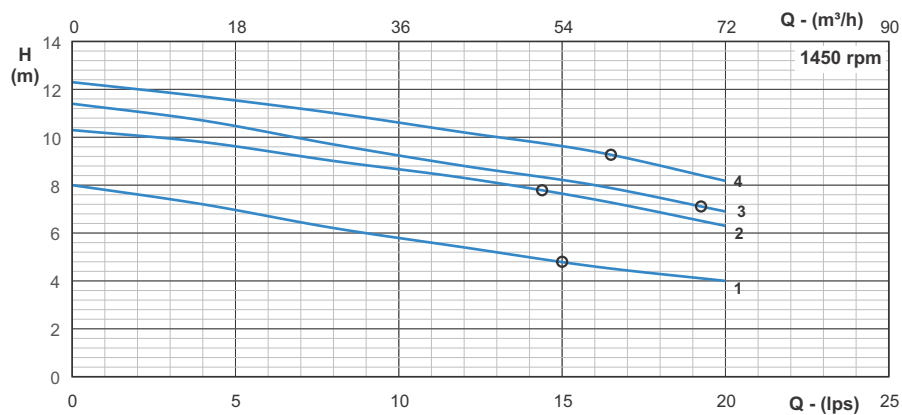
* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.



FGa 2000-4



PERFORMANCE CURVES



PERFORMANCE TABLE

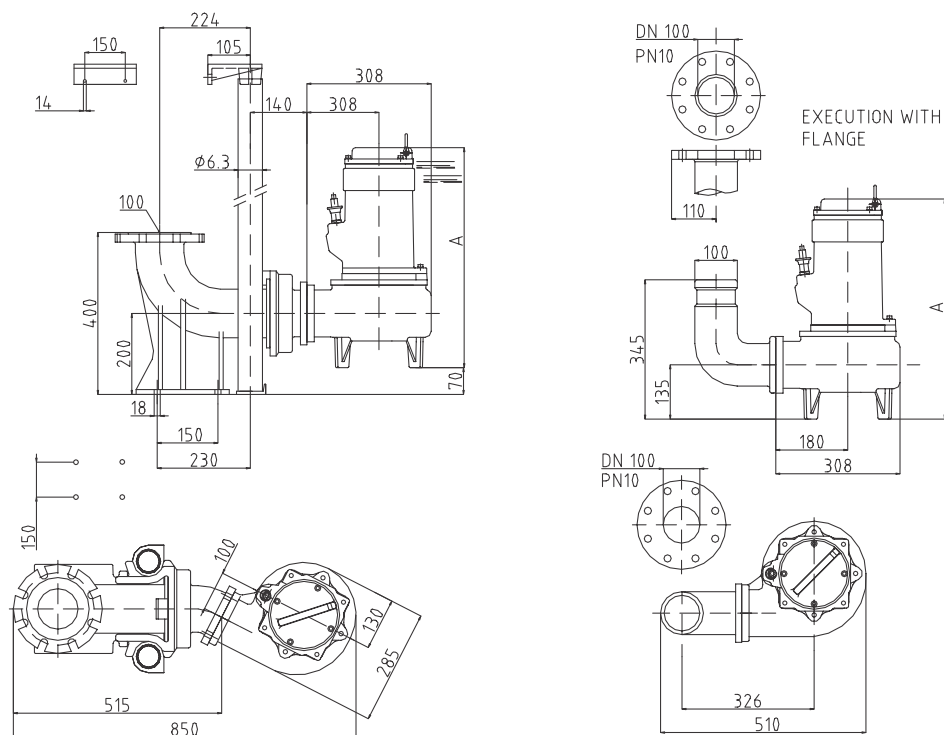
No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	l/sec m³/h	0	4	8	12	16	20
										0	14.4	28.8	43.2	57.6	72
1	FGa 2130.2,2-4/150.35	3	2.2	400	5.5	1450	100	80	Head in m	8	7.2	6.2	5.4	4.6	4
2	FGa 2141.3,5-4/170.35	4	3.5	400	8	1450	100	80		10.3	9.8	9	8.3	7.4	6.3
3	FGa 2156.4,2-4/175.35	4.4	4.2	400	9.2	1450	100	80		11.4	10.7	9.7	8.8	8	6.9
4	FGa 2176.5,5-4/180.35	6	5.5	400	11	1450	100	80		12.3	11.7	11	10.2	9.4	8.2

* Inbuilt with TOP

DIMENSION & WEIGHT DATA

No	Model - Type	A max	Auto coupling V	Weight (kg)	Power Cable	
					No. of Core	Size in Sq.mm
1	FGa 2130.2,2-4/150.35	610	100	52	7	1.5
2	FGa 2141.3,5-4/170.35	610	100	55	7	1.5
3	FGa 2156.4,2-4/175.35	610	100	55	7	1.5
4	FGa 2176.5,5-4/180.35	580	100	59	12	1.5

DIMENSION DRAWING



* In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.