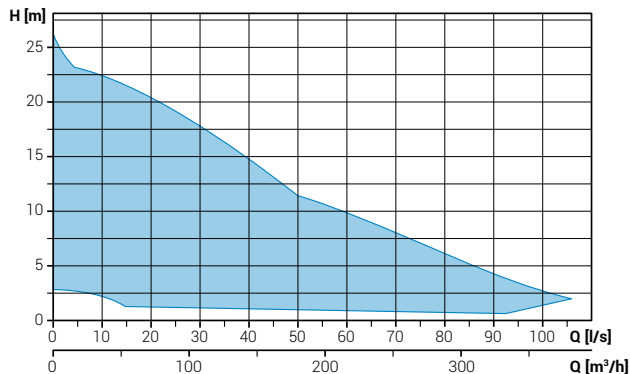


## Pumps with vortex impeller

### Operating ranges



### Range characteristics

Motor power	1.8 ÷ 15.0 kW
Poles	2 / 4
Insulation class	H
Degree of protection	IP68
Discharge	GAS 2½" vertical DN65 ÷ DN150 horizontal
Free passage	max 125 mm
Max flow rate	106 l/s
Max head	26.1 m

### Motor

Ecological dry motor with thermal protections

### Cable

S1RN8-F electric cable. Standard version 10 m cable length

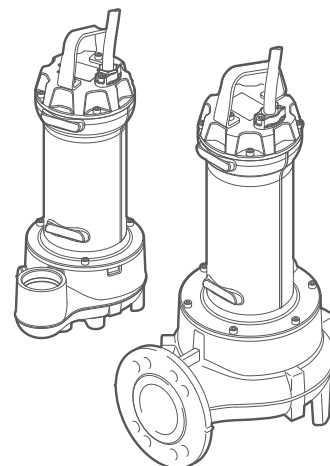
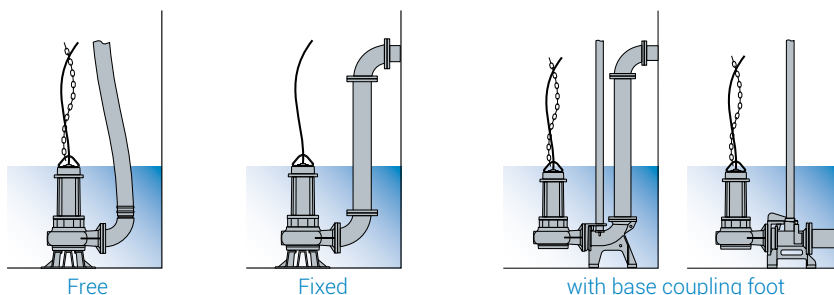
### Mechanical seals

Two silicon carbide (SiC) mechanical seals in oil sump.

### Applications

Used with unstrained soiled biological wastewaters and sewage and for civil lifting applications. It is thus ideal for wastewater treatment plants, sewer systems, livestock farms, industry and agriculture

### Installations



### Versions

Electrical variants	NAE, TS
Cooling system	N
Mechanical seals	2SIC

### Operating specifications

Max operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm²/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm³
Acoustic pressure max	<70dB
Max starts per hour	30

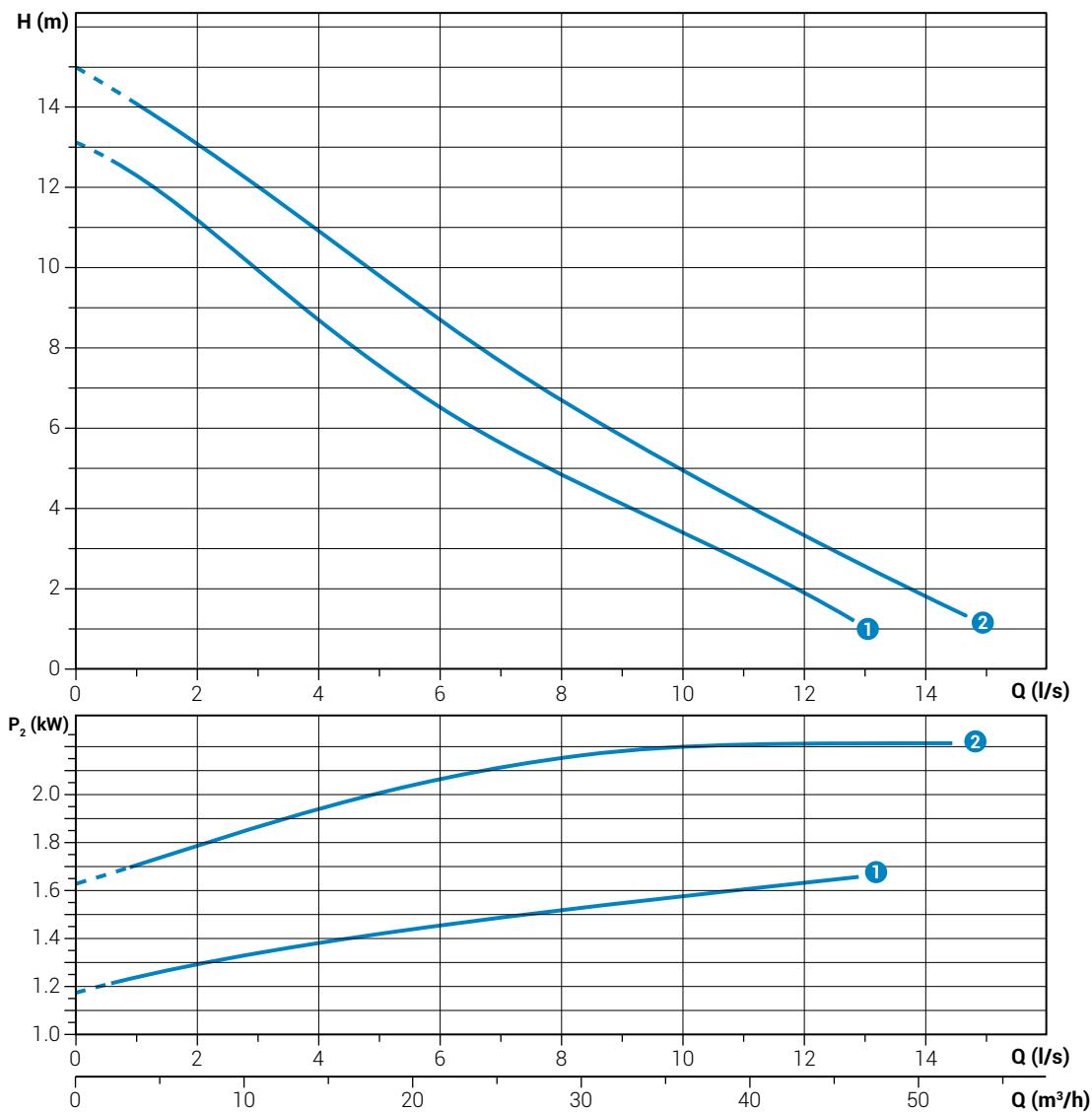
### Construction materials

Case	Cast iron EN-GJL 250
Hydraulic parts	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 431
Paint type	Ecological bicomponent epoxy (~ 200 µm)

# DGG 250-300/2/G65V

## Performances

	l/s	0	2	4	6	8	10	12	14
	l/min	0	120	240	360	480	600	720	840
	m <sup>3</sup> /h	0	7.2	14.4	21.6	28.8	36.0	43.2	50.4
①	DGG 250/2/G65V B0AT5	13.0	11.2	8.7	6.5	4.8	3.4	2.0	
②	DGG 300/2/G65V A0ET5	15.0	13.1	10.9	8.7	6.7	4.9	3.4	1.9



Characteristic curves according to UNI EN ISO 9906

## Technical data

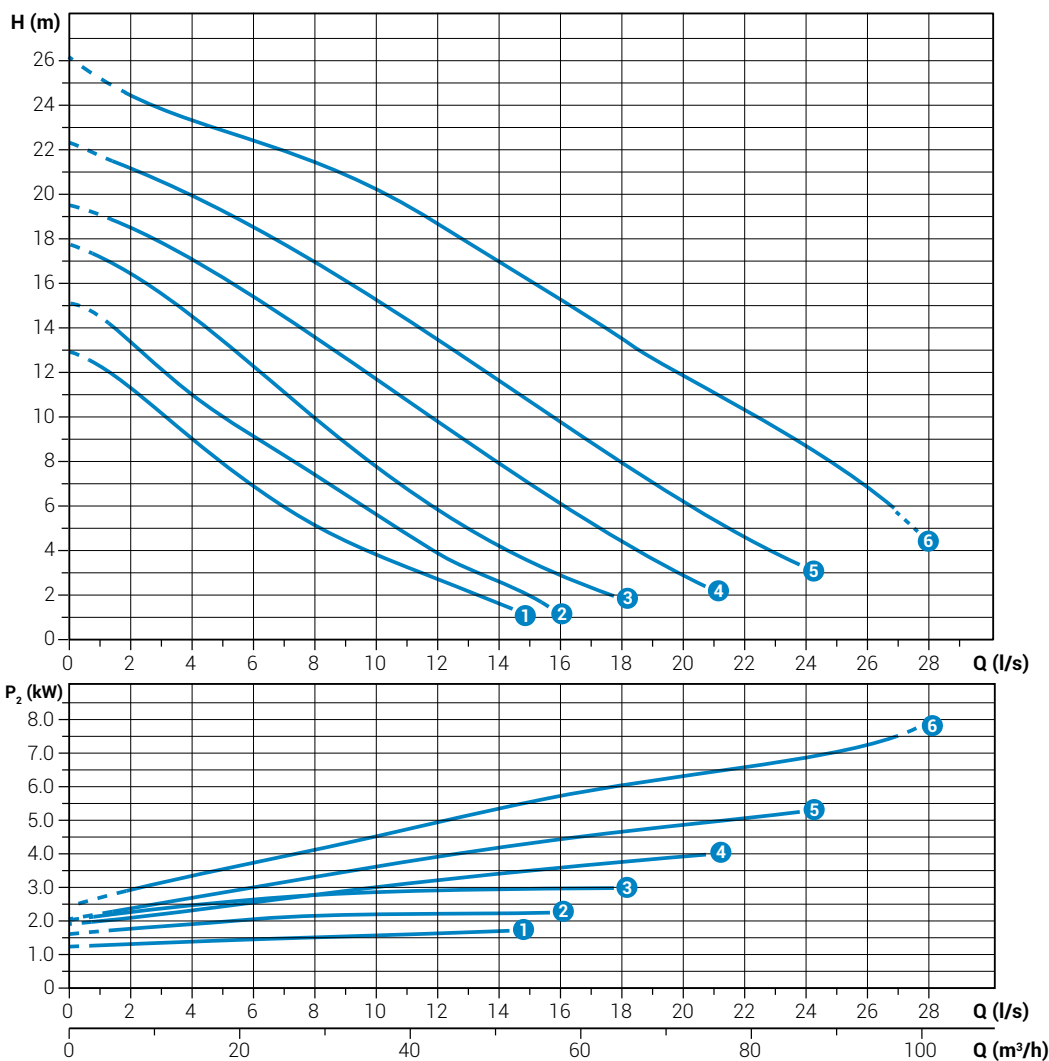
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DGG 250/2/G65V B0AT5	400	3	2.19	1.8	3.7	2900	Dir	4G1	G 2½"	65 mm
②	DGG 300/2/G65V A0ET5	400	3	2.76	2.2	4.62	2900	Dir	4G1.5+3x1	G 2½"	65 mm

# DGG 250÷1000/2/65

## Performances

	l/s	0	2	4	6	8	10	12	14	16	18	20	22	24	26
	l/min	0	120	240	360	480	600	720	840	960	1080	1200	1320	1440	1560
	m³/h	0	7.2	14.4	21.6	28.8	36.0	43.2	50.4	57.6	64.8	72.0	79.2	86.4	93.6
1	DGG 250/2/65 B0AT5	13.0	11.3	9.0	6.9	5.2	3.8	2.7	16						
2	DGG 300/2/65 C0ET5	15.1	13.4	11.0	9.1	7.4	5.6	3.9	2.6						
3	DGG 400/2/65 D0ET5	17.7	16.4	14.5	12.2	9.9	7.7	5.8	4.2	2.9					
4	DGG 550/2/65 A0FT5	19.5	18.4	17.0	15.4	13.6	11.7	9.8	7.9	6.1	4.4	2.9			
5	DGG 750/2/65 A0FT5	22.3	21.2	19.9	18.6	17.0	15.3	13.5	11.6	9.8	7.9	6.2	4.7		
6	DGG 1000/2/65 A0FT5	26.1	24.4	23.3	22.4	21.4	20.2	18.7	17.0	15.3	13.5	11.8	10.3	8.7	6.8

Characteristic curves according to UNI EN ISO 9906



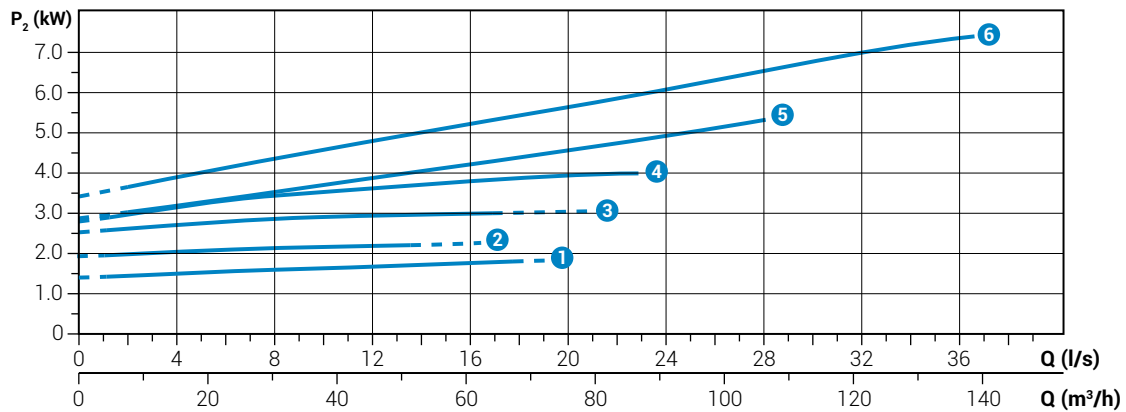
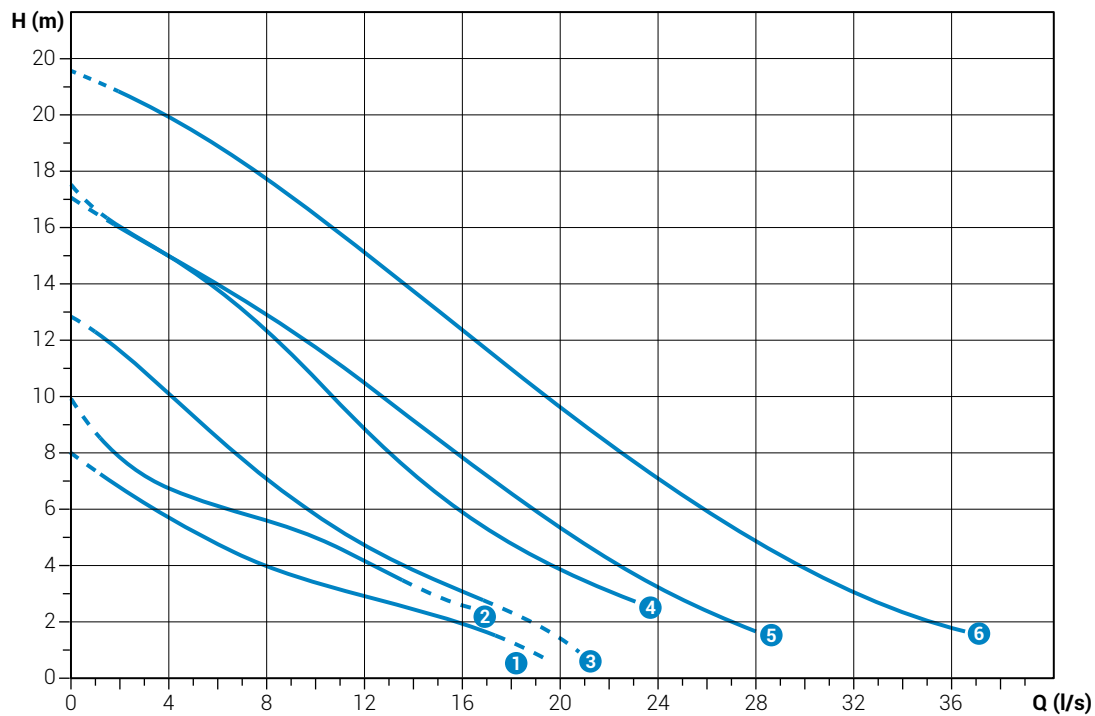
## Technical data

	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Start	Cable	Ø	Free passage	
1	DGG 250/2/65 B0AT5	400	3	2.19	1.8	3.7	2900	Dir	4G1	DN65	65 mm
2	DGG 300/2/65 C0ET5	400	3	2.76	2.2	4.62	2900	Dir	4G1.5+3x1	DN65	65 mm
3	DGG 400/2/65 D0ET5	400	3	3.68	3.0	3.36	2900	Dir	4G1.5+3x1	DN65	65 mm
4	DGG 550/2/65 A0FT5	400	3	4.66	4.0	7.73	2900	Dir	4G1.5+3x1	DN65	65 mm
5	DGG 750/2/65 A0FT5	400	3	6.32	5.5	10.8	2900	Dir	4G1.5+3x1	DN65	65 mm
6	DGG 1000/2/65 A0FT5	400	3	8.51	7.5	13.7	2900	Dir	4G1.5+3x1	DN65	65 mm

# DGG 250 ÷ 1000/2/80

## Performances

	l/s	0	4	8	12	16	20	24	28	32	36
	l/min	0	240	480	720	960	1200	1440	1680	1920	2160
	m <sup>3</sup> /h	0	14.4	28.8	43.2	57.6	72.0	86.4	100.8	115.2	129.6
1	DGG 250/2/80 FOAT5	7.9	5.7	4.0	2.9	1.9					
2	DGG 300/2/80 GOET5	9.7	6.7	5.6	4.2	2.6					
3	DGG 400/2/80 HOET5	12.8	10.1	7.1	4.7	3.1	1.4				
4	DGG 550/2/80 NOFT5	17.5	15.0	12.4	8.9	5.9	3.9				
5	DGG 750/2/80 AOFT5	17.1	15.1	12.9	10.5	7.8	5.3	3.2	1.7		
6	DGG 1000/2/80 AOFT5	21.6	20.0	17.7	15.1	12.4	9.6	7.1	4.8	3.0	1.8



## Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
1	DGG 250/2/80 FOAT5	400	3	2.19	1.8	3.7	2900	Dir	4G1	DN80	80 mm
2	DGG 300/2/80 GOET5	400	3	2.76	2.2	4.62	2900	Dir	4G1.5+3x1	DN80	80 mm
3	DGG 400/2/80 HOET5	400	3	3.68	3.0	6.36	2900	Dir	4G1.5+3x1	DN80	80 mm
4	DGG 550/2/80 NOFT5	400	3	4.66	4.0	7.73	2900	Dir	4G1.5+3x1	DN80	80 mm
5	DGG 750/2/80 AOFT5	400	3	6.32	5.5	10.8	2900	Dir	4G1.5+3x1	DN80	80 mm
6	DGG 1000/2/80 AOFT5	400	3	8.51	7.5	13.7	2900	Dir	4G1.5+3x1	DN80	80 mm

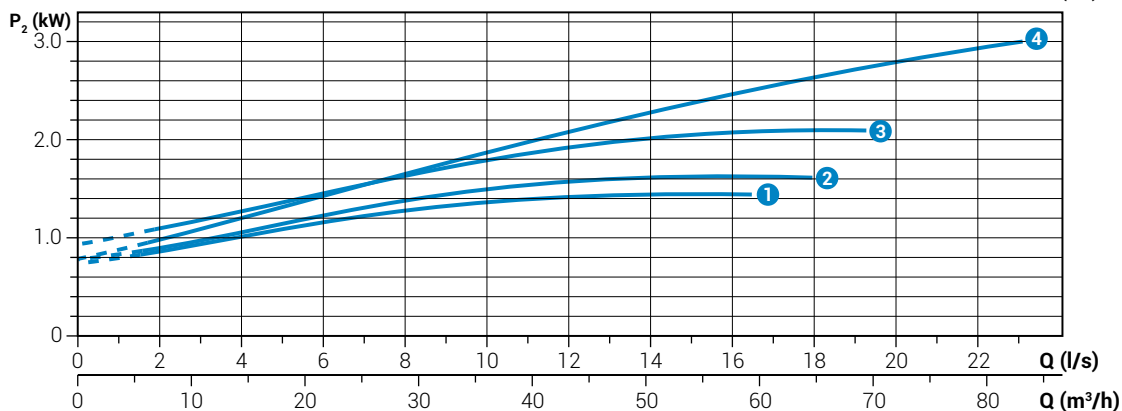
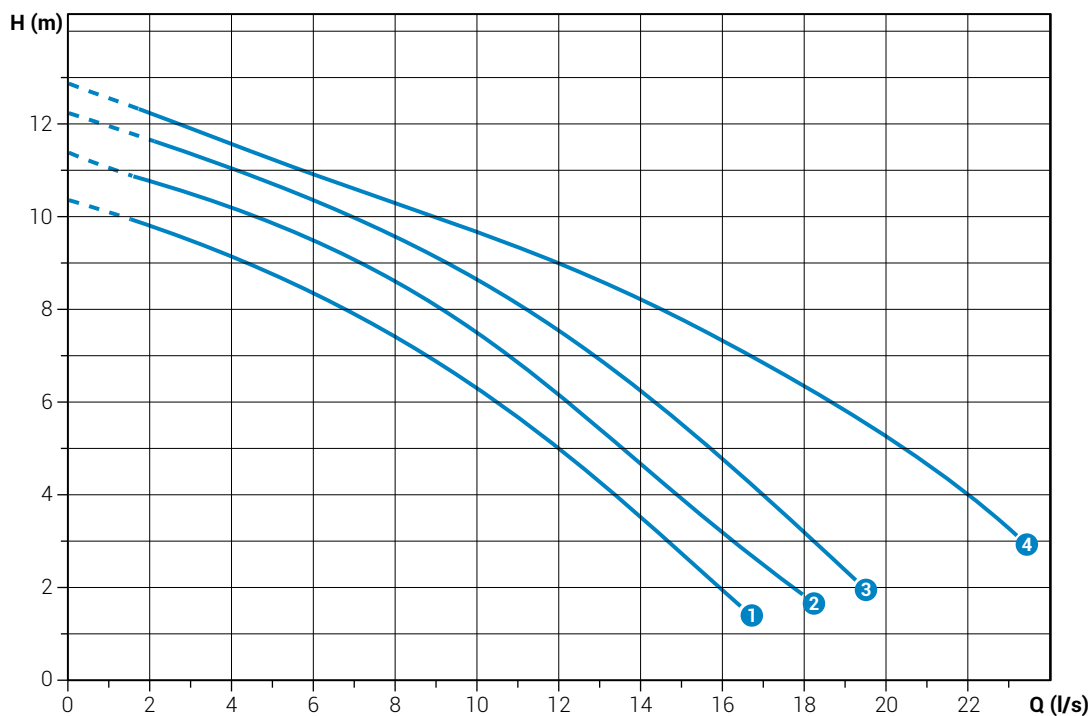
Characteristic curves according to UNI EN ISO 9906

# DGG 200 ÷ 400/4/65

## Performances

	l/s	0	2	4	6	8	10	12	14	16	18	20	22
	l/min	0	120	240	360	480	600	720	840	960	1080	1200	1320
	m <sup>3</sup> /h	0	7.2	14.4	21.6	28.8	36.0	43.2	50.4	57.6	64.8	72.0	79.2
① DGG 200/4/65 FOET5		10.4	9.8	9.2	8.4	7.4	6.3	5.0	3.6	2.0			
② DGG 250/4/65 FOET5		11.3	10.8	10.2	9.5	8.6	7.5	6.2	4.7	3.2			
③ DGG 300/4/65 FOET5		12.2	11.6	11.0	10.4	9.6	8.7	7.6	6.3	4.8	3.2		
④ DGG 400/4/65 GOET5		12.8	12.2	11.5	10.9	10.3	9.7	9.0	8.2	7.3	6.3	5.3	4.0

Characteristic curves according to UNI EN ISO 9906



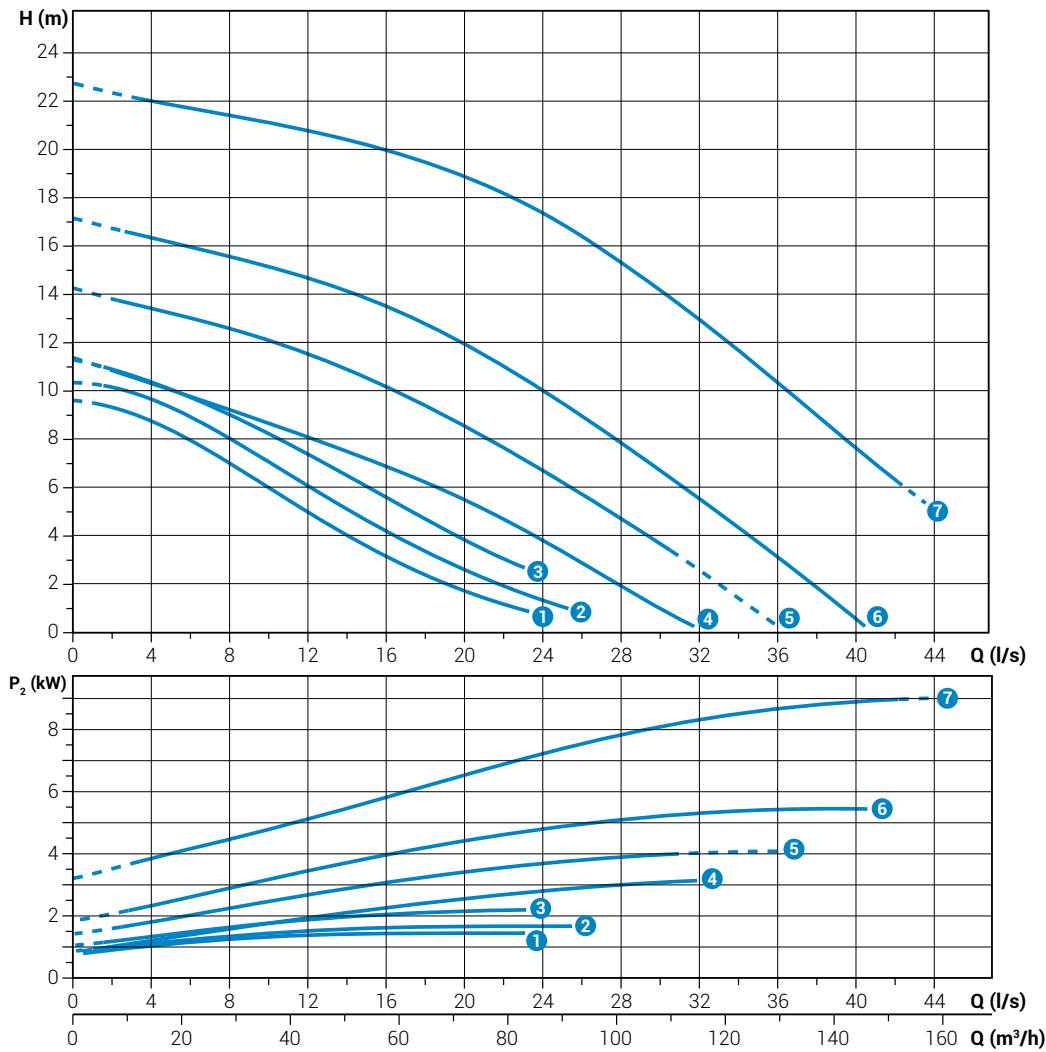
## Technical data

	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Start	Cable	Ø	Free passage
① DGG 200/4/65 FOET5	400	3	1.84	1.5	3.4	1450	Dir	4G1.5+3x1	DN65	65 mm
② DGG 250/4/65 FOET5	400	3	2.22	1.8	4.3	1450	Dir	4G1.5+3x1	DN65	65 mm
③ DGG 300/4/65 FOET5	400	3	2.7	2.2	5.15	1450	Dir	4G1.5+3x1	DN65	65 mm
④ DGG 400/4/65 GOET5	400	3	3.68	3.0	6.72	1450	Dir	4G1.5+3x1	DN65	65 mm

# DGG 200 ÷ 1200/4/80

## Performances

	l/s	0	4	8	12	16	20	24	28	32	36	40
	l/min	0	240	480	720	960	1200	1440	1680	1920	2160	2400
	m <sup>3</sup> /h	0	14.4	28.8	43.2	57.6	72.0	86.4	100.8	115.2	129.6	144
1	DGG 200/4/80 E0ET5	9.6	8.8	7.0	5.0	3.2	1.7					
2	DGG 250/4/80 E0ET5	10.4	9.7	8.1	6.1	4.2	2.6	1.3				
3	DGG 300/4/80 E0ET5	11.3	10.4	9.0	7.4	5.6	3.8					
4	DGG 400/4/80 M0ET5	11.4	10.3	9.2	8.1	6.9	5.5	3.8	1.9			
5	DGG 550/4/80 D0FT5	14.4	13.5	12.7	11.6	10.2	8.6	6.7	4.7			
6	DGG 750/4/80 D0FT5	17.2	16.4	15.6	14.7	13.5	12.0	10.0	7.8	5.5	3.1	0.6
7	DGG 1200/4/80 D0HT5	22.8	22.0	21.4	20.8	20.0	18.9	17.3	15.4	13.0	10.4	7.7



Characteristic curves according to UNI EN ISO 9906

## Technical data

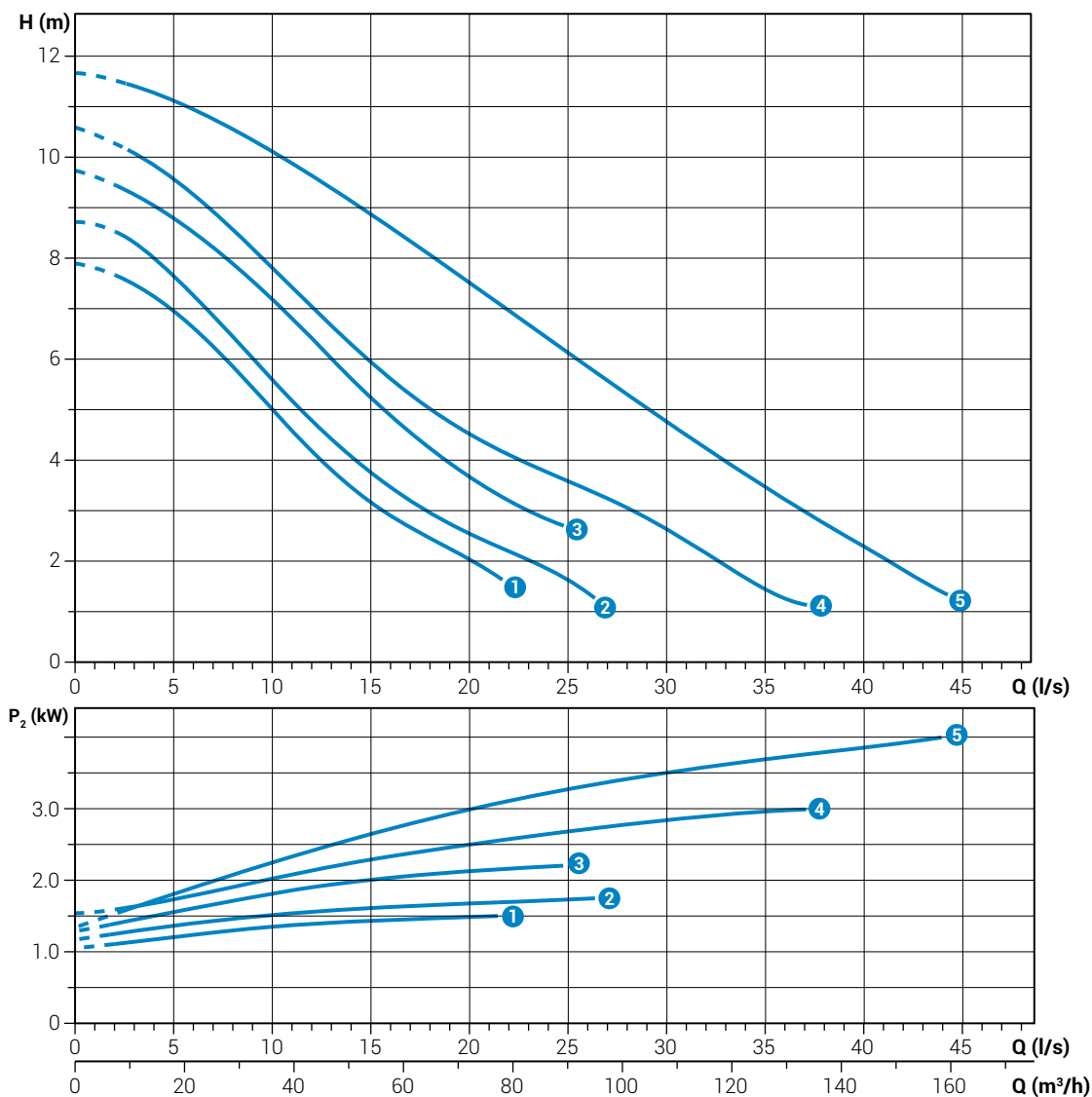
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
1	DGG 200/4/80 E0ET5	400	3	1.84	1.5	3.4	1450	Dir	4G1.5+3x1	DN80	80 mm
2	DGG 250/4/80 E0ET5	400	3	2.22	1.8	4.3	1450	Dir	4G1.5+3x1	DN80	80 mm
3	DGG 300/4/80 E0ET5	400	3	2.7	2.2	5.15	1450	Dir	4G1.5+3x1	DN80	80 mm
4	DGG 400/4/80 M0ET5	400	3	3.68	3.0	6.72	1450	Dir	4G1.5+3x1	DN80	80 mm
5	DGG 550/4/80 D0FT5	400	3	4.62	4.0	8.4	1450	Dir	4G1.5+3x1	DN80	60 mm
6	DGG 750/4/80 D0FT5	400	3	6.38	5.5	11.8	1450	Dir	4G1.5+3x1	DN80	60 mm
7	DGG 1200/4/80 D0HT5	400/700	3	10.2	9.0	17.0	1450	Y Δ	7G1.5+3x1	DN80	60 mm

# DGG 200 ÷ 550/4/100

## Performances

	l/s	0	4	8	12	16	20	24	28	32	36	40	44
	l/min	0	240	480	720	960	1200	1440	1680	1920	2160	2400	2640
	m <sup>3</sup> /h	0	14.4	28.8	43.2	57.6	72	86.4	100.8	115.2	129.6	144	158.4
1	DGG 200/4/100 E0ET5	7.9	7.2	5.8	4.2	2.9	2.1						
2	DGG 250/4/100 E0ET5	8.7	8.0	6.4	4.8	3.5	2.6	1.8					
3	DGG 300/4/100 E0ET5	9.7	9.1	7.9	6.4	4.9	3.7	2.9					
4	DGG 400/4/100 D0ET5	10.6	9.8	8.6	7.0	5.6	4.5	3.8	3.1	2.2	1.3		
4	DGG 550/4/100 G0FT5	11.7	11.3	10.6	9.7	8.6	7.6	6.4	5.3	4.2	3.2	2.3	1.4

Characteristic curves according to UNI EN ISO 9906



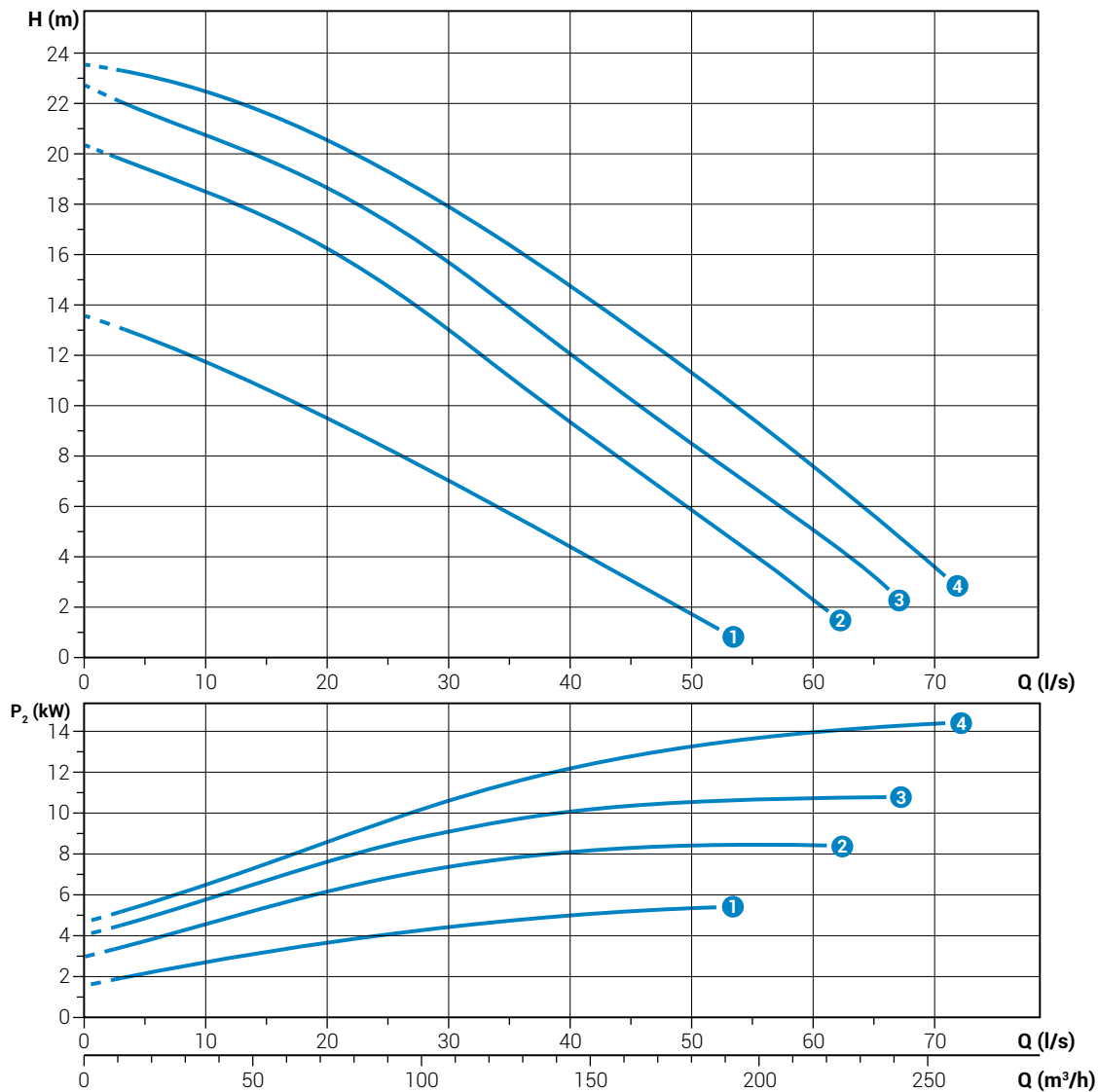
## Technical data

	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Start	Cable	Ø	Free passage	
1	DGG 200/4/100 E0ET5	400	3	1.84	1.5	3.4	1450	Dir	4G1.5+3x1	DN100	100 mm
2	DGG 250/4/100 E0ET5	400	3	2.22	1.8	4.3	1450	Dir	4G1.5+3x1	DN100	100 mm
3	DGG 300/4/100 E0ET5	400	3	2.7	2.2	5.15	1450	Dir	4G1.5+3x1	DN100	100 mm
4	DGG 400/4/100 D0ET5	400	3	3.68	3.0	6.72	1450	Dir	4G1.5+3x1	DN100	100 mm
5	DGG 550/4/100 G0FT5	400	3	4.62	4.0	8.4	1450	Dir	4G1.5+3x1	DN100	80 mm

# DGG 750 ÷ 2000/4/100

## Performances

	l/s	0	8	16	24	32	40	48	56	64
	l/min	0	480	960	1440	1920	2400	2880	3360	3840
	m <sup>3</sup> /h	0	28.8	57.6	86.4	115.2	144	172.8	201.6	230.4
①	DGG 750/4/100 G0FT5	13.5	12.1	10.4	8.5	6.6	4.4	2.3		
②	DGG 1200/4/100 B0HT5	20.3	18.8	17.2	15.0	12.3	9.3	6.5	3.8	
③	DGG 1500/4/100 B0HT5	22.7	21.1	19.6	17.6	15.0	12.1	9.2	6.4	3.6
④	DGG 2000/4/100 B0HT5	23.5	22.8	21.4	19.5	17.3	14.8	12.1	9.1	6.0



Characteristic curves according to UNI EN ISO 9906

## Technical data

	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Start	Cable	Ø	Free passage	
①	DGG 750/4/100 G0FT5	400	3	6.38	5.5	11.8	1450	Dir	4G1.5+3x1	DN100	80 mm
②	DGG 1200/4/100 B0HT5	400/700	3	10.2	9.0	17.0	1450	Y Δ	7G1.5+3x1	DN100	100 mm
③	DGG 1500/4/100 B0HT5	400/700	3	12.6	11.0	20.5	1450	Y Δ	7G1.5+3x1	DN100	100 mm
④	DGG 2000/4/100 B0HT5	400/700	3	16.7	15.0	30.8	1450	Y Δ	7G1.5+3x1	DN100	100 mm

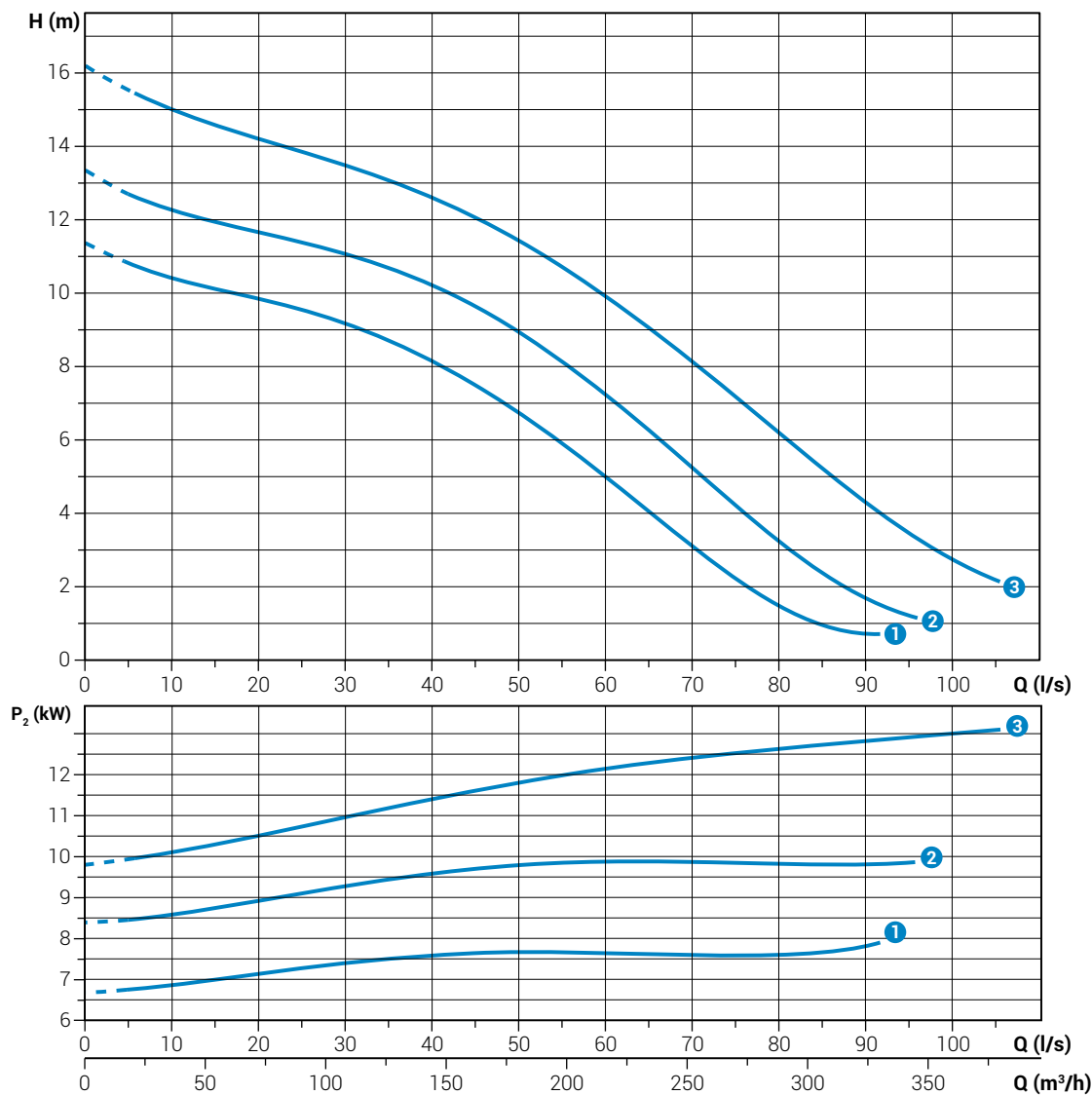


# DGG 1200-1500-2000/4/150

## Performances

	l/s	0	8	16	24	32	40	48	56	64	72	80	88	96	104
	l/min	0	480	960	1440	1920	2400	2880	3360	3840	4320	4800	5280	5760	6240
	m <sup>3</sup> /h	0	28,8	57,6	86,4	115,2	144	172,8	201,6	230,4	259,2	288	316,8	345,6	374,4
① DGG 1200/4/150 A0HT5		11.3	10.6	10.1	9.6	9.0	8.2	7.1	5.7	4.2	2.7	1.5	0.8		
② DGG 1500/4/150 A0HT5		13.3	12.4	11.8	11.4	10.9	10.2	9.2	8.0	6.5	4.8	3.3	1.9		
③ DGG 2000/4/150 A0HT5		16.2	15.2	14.5	13.9	13.3	12.6	11.7	10.6	9.2	7.7	6.2	4.6	3.3	2.3

Characteristic curves according to UNI EN ISO 9906

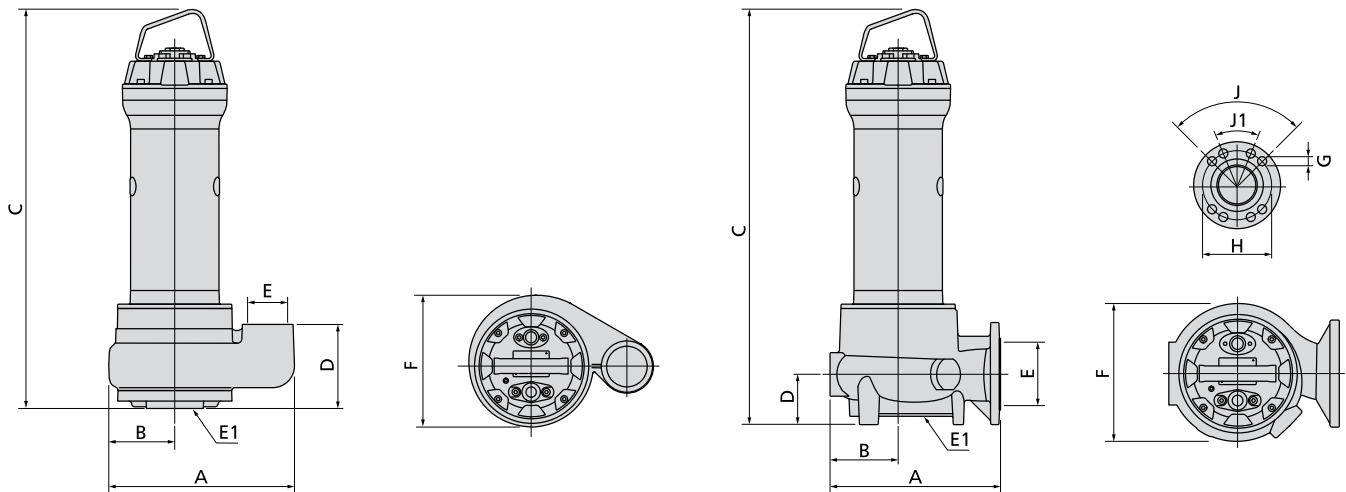


## Technical data

	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Start	Cable	Ø	Free passage
① DGG 1200/4/150 A0HT5	400/700	3	10.2	9.0	17.0	1450	Y Δ	7G1.5+3x1	DN150	125 mm
② DGG 1500/4/150 A0HT5	400/700	3	12.6	11.0	20.5	1450	Y Δ	7G1.5+3x1	DN150	125 mm
③ DGG 2000/4/150 A0HT5	400/700	3	16.7	15.0	30.8	1450	Y Δ	7G2.5+3x1	DN150	125 mm

# DGG

## Overall dimensions and weights



	A	B	C	D	E	E1	F	kg
DGG 250/2/G65V B0AT5	311	109	553	133	2½"	65	219	35.0
DGG 300/2/G65V A0ET5	311	109	576	133	2½"	65	219	59.6

Dimensions in mm

	A	B	C	D	E	E1	F	G	H	J°	J1°	kg
DGG 250/2/65 B0AT5	301	119	553	70	65	65	218	18	145	90	-	37.0
DGG 300/2/65 C0ET5	301	119	576	70	65	65	218	18	145	90	-	61.6
DGG 400/2/65 D0ET5	301	119	626	70	65	65	218	18	145	90	-	64.6
DGG 550/2/65 A0FT5	301	119	733	90	65	65	222	18	145	90	-	70.6
DGG 750/2/65 A0FT5	301	119	733	90	65	65	222	18	145	90	-	73.3
DGG 1000/2/65 A0FT5	301	119	808	90	65	65	222	18	145	90	-	82.3
DGG 250/2/80 F0AT5	312	120	580	80	80	80	236	18	160	90	45	35.0
DGG 300/2/80 G0ET5	312	120	602	80	80	80	236	18	160	90	45	59.6
DGG 400/2/80 H0ET5	312	120	652	80	80	80	236	18	160	90	45	61.6
DGG 550/2/80 N0FT5	313	125	762	92	80	80	251	18	160	90	45	71.0
DGG 750/2/80 A0FT5	313	125	762	92	80	80	251	18	160	90	45	73.7
DGG 1000/2/80 A0FT5	313	125	837	92	80	80	251	18	160	90	45	82.7
DGG 200/4/65 F0ET5	395	158	606	70	65	65	308	18	145	90	-	66
DGG 250/4/65 F0ET5	395	158	656	70	65	65	308	18	145	90	-	68.0
DGG 300/4/65 F0ET5	395	158	656	70	65	65	308	18	145	90	-	70.6
DGG 400/4/65 G0ET5	395	158	656	70	65	65	308	18	145	90	-	75.0
DGG 200/4/80 E0ET5	389	156	624	80	80	80	306	18	160	90	45	66
DGG 250/4/80 E0ET5	389	156	674	80	80	80	306	18	160	90	45	68.0
DGG 300/4/80 E0ET5	389	156	674	80	80	80	306	18	160	90	45	70.6
DGG 400/4/80 M0ET5	389	156	674	80	80	80	306	18	160	90	45	75.0
DGG 550/4/80 D0FT5	484	194	820	80	80	80	374	18	160	90	45	95.8
DGG 750/4/80 D0FT5	484	194	820	80	80	80	374	18	160	90	45	96.8
DGG 1200/4/80 D0HT5	484	194	968	80	80	80	374	18	160	90	45	186.0
DGG 200/4/100 E0ET5	410	158	645	91	100	100	305	18	180	45	-	69
DGG 250/4/100 E0ET5	410	158	695	91	100	100	305	18	180	45	-	71.0
DGG 300/4/100 E0ET5	410	158	695	91	100	100	305	18	180	45	-	73.6
DGG 400/4/100 D0ET5	410	158	695	91	100	100	305	18	180	45	-	78.0
DGG 550/4/100 G0FT5	408	158	826	91	100	100	305	18	180	45	-	81.8
DGG 750/4/100 G0FT5	408	158	826	91	100	100	305	18	180	45	-	82.8
DGG 1200/4/100 B0HT5	496	190	1032	110	100	100	373	18	180	45	-	193.2
DGG 1500/4/100 B0HT5	496	190	1032	110	100	100	373	18	180	45	-	199.2
DGG 2000/4/100 B0HT5	496	190	1122	110	100	100	373	18	180	45	-	205.2
DGG 1200/4/150 A0HT5	612	222	985	130	150	150	447	24	240	45	-	228.0
DGG 1500/4/150 A0HT5	612	222	985	130	150	150	447	24	240	45	-	234.0
DGG 2000/4/150 A0HT5	612	222	1075	130	150	150	447	24	240	45	-	240.0

## Packaging dimension



	<b>X</b>	<b>Y</b>	<b>Z</b>
DGG 250/2/G65V B0AT5	445	725	425
DGG 300/2/G65V C0ET5	445	725	425
DGG 250/2/65 B0AT5	445	725	425
DGG 300/2/65 C0ET5	445	725	425
DGG 400/2/65 D0ET5	445	725	425
DGG 550/2/65 A0FT5	535	915	560
DGG 750/2/65 A0FT5	535	915	560
DGG 1000/2/65 A0FT5	535	915	560
DGG 250/2/80 F0AT5	445	725	425
DGG 300/2/80 G0ET5	445	725	425
DGG 400/2/80 H0ET5	445	725	425
DGG 550/2/80 N0FT5	535	915	560
DGG 750/2/80 A0FT5	535	915	560
DGG 1000/2/80 A0FT5	535	915	560
DGG 200/4/65 F0ET5	445	725	425
DGG 250/4/65 F0ET5	445	725	425
DGG 300/4/65 F0ET5	445	725	425
DGG 400/4/65 G0ET5	445	725	425
DGG 250/4/80 E0ET5	445	725	425
DGG 250/4/80 E0ET5	445	725	425
DGG 300/4/80 E0ET5	445	725	425
DGG 400/4/80 M0ET5	445	725	425
DGG 550/4/80 D0FT5	535	915	560
DGG 750/4/80 D0FT5	535	915	560
DGG 1200/4/80 D0HT5	535	1000	560
DGG 200/4/100 E0ET5	445	725	425
DGG 250/4/100 E0ET5	445	725	425
DGG 300/4/100 E0ET5	445	725	425
DGG 400/4/100 D0ET5	445	725	425
DGG 550/4/100 G0FT5	535	915	560
DGG 750/4/100 G0FT5	535	915	560
DGG 1200/4/100 B0HT5	725	1270	675
DGG 1500/4/100 B0HT5	725	1270	675
DGG 2000/4/100 B0HT5	725	1270	675
DGG 1200/4/150 A0HT5	725	1270	675
DGG 1500/4/150 A0HT5	725	1270	675
DGG 2000/4/150 A0HT5	725	1270	675

Dimensions in mm