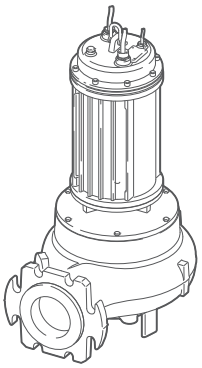
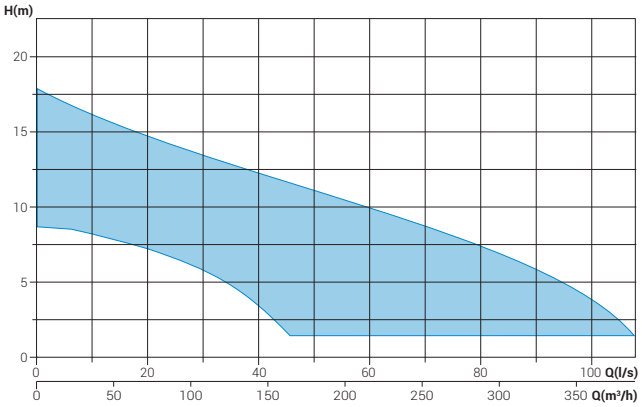
DGP

Pumps with vortex impeller



Operating ranges



Range characteristics

Motor power	4.6 ÷ 16.4 kW
Poles	2 / 4
Insulation class	H
Degree of protection	IP68
Discharge	DN80 ÷ DN125 horizontal
Free passage	max 102 mm
Max flow rate	101.4 l/s
Max head	17.9 m

Motor

Oil-bath motor with thermal protections.

Cable

S1RN8-F type electrical cable. 10 m standard cable length

Mechanical seals

Two mechanical seals in silicon carbide (2SiC) and one mechanical seal in alumina graphite (AL)

Applications

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

Versions

Electrical variants	T,TS
Cooling system	N
Mechanical seals	2SICAL

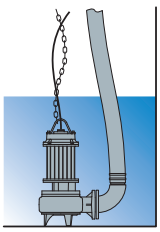
Operating specifications

Max 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
Acoustic pressure max	<70dB
Max starts per hour	20

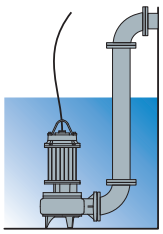
Construction materials

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 420
Cooling jacket (optional)	Stainless steel - AISI 304
Paint type	Ecological bicomponent epoxy (~ 150 µm)

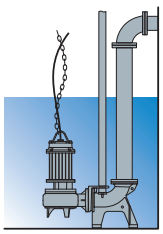
Installations

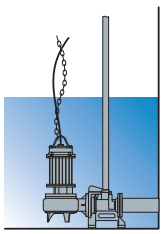


Free



Fixed





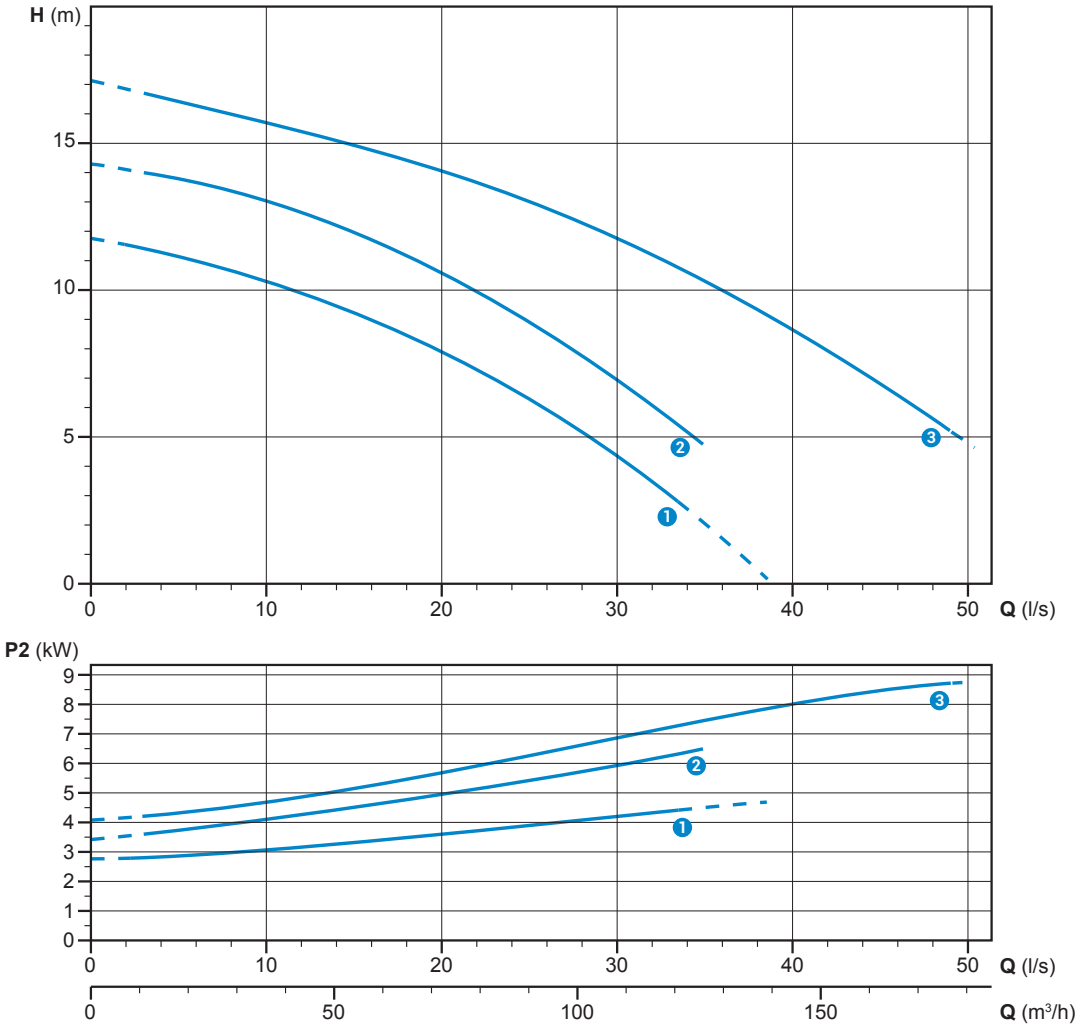
with base coupling foot

DGP 4/80

Performances

	l/s	0	4	8	12	16	20	24	28	32	36	40	44	48
	l/min	0	240	480	720	960	1200	1440	1680	1920	2160	2400	2640	2880
	m³/h	0	14.4	28.8	43.2	57.6	72	86.4	100.8	115.2	129.6	144	158.4	172.8
1	DGP 550/4/80 A0GT5	*11.8*	11.2	10.6	10.0	9.0	8.0	6.6	5.0	3.3				
2	DGP 750/4/80 A0HT5	*14.2*	13.9	13.5	12.5	11.8	10.6	9.2	7.6	6.0				
3	DGP 1000/4/80 A0HT5	*17.1*	16.5	16.0	15.4	14.8	14.0	13.5	12.4	11.1	9.8	8.6	7.2	5.5

Characteristic curves according to UNI EN ISO 9906



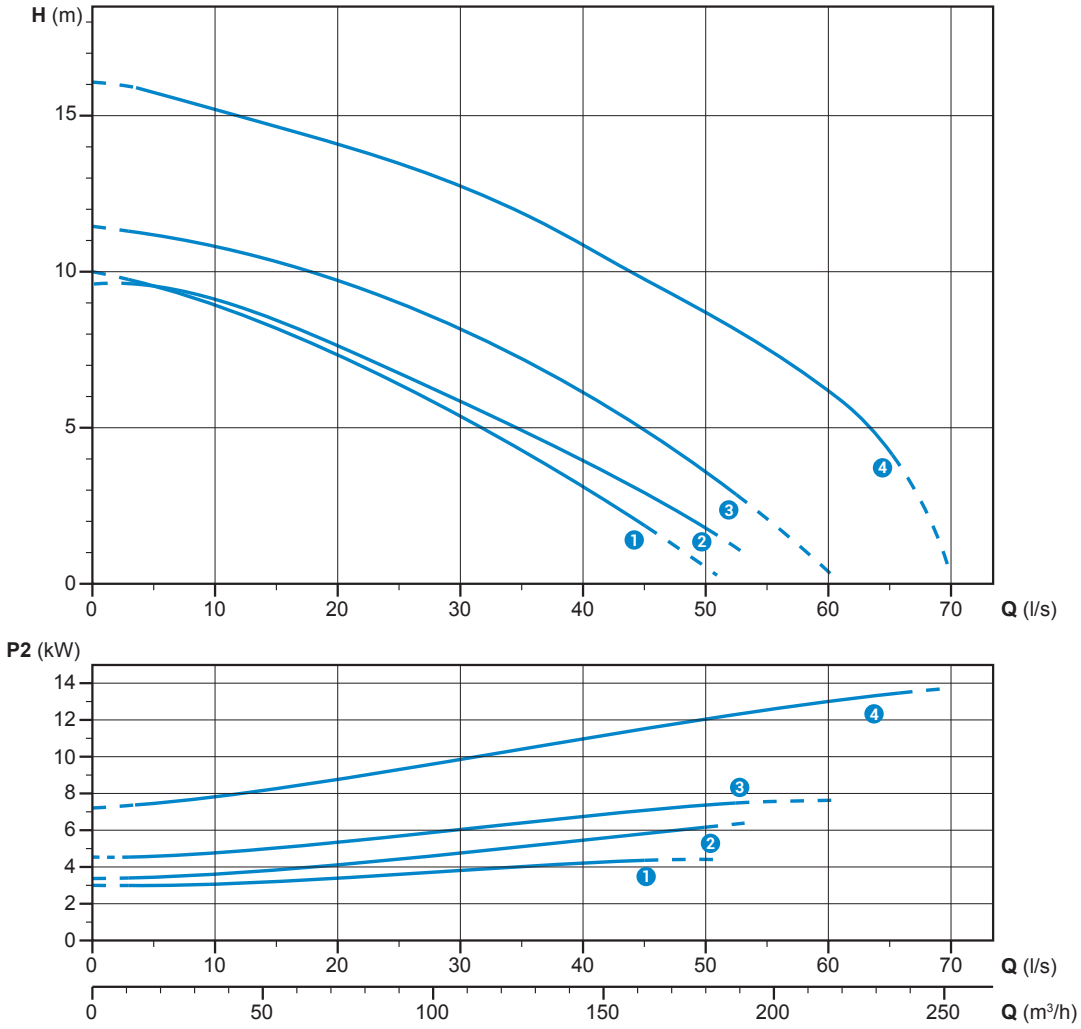
Technical data

		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
1	DGP 550/4/80 A0GT5	400	3	6.0	4.6	10.30	1450	Dir	4G2.5 + 3x1	DN80	60 mm
2	DGP 750/4/80 A0HT5	400	3	9.1	7.4	15.82	1450	Y Δ	7G1.5 + 3x0.75	DN80	60 mm
3	DGP 1000/4/80 A0HT5	400	3	12.8	10.45	21.74	1450	Y Δ	7G1.5 + 3x0.75	DN80	60 mm

DGP 4/100

Performances

	l/s	0	5	10	15	20	25	30	35	40	45	50	55	60	65
	l/min	0	300	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900
	m³/h	0	18	36	54	72	90	108	126	144	162	180	198	216	234
1 DGP 550/4/100 A0GT5		*10.0*	9.5	9.0	8.1	7.2	6.4	5.4	4.2	3.1	1.9				
2 DGP 750/4/100 A0HT5		*9.6*	9.5	9.1	8.5	7.6	6.8	5.9	5.0	4.0	2.8	1.9			
3 DGP 1000/4/100 A0HT5		*11.4*	11.2	10.9	10.4	9.8	9.0	8.1	7.2	6.1	4.9	3.6			
4 DGP 1500/4/100 A0IT5		*16.1*	15.8	15.2	14.8	14.1	13.6	12.8	12.0	10.9	9.8	8.8	7.5	6.1	4.1



Characteristic curves according to UNI EN ISO 9906

Technical data

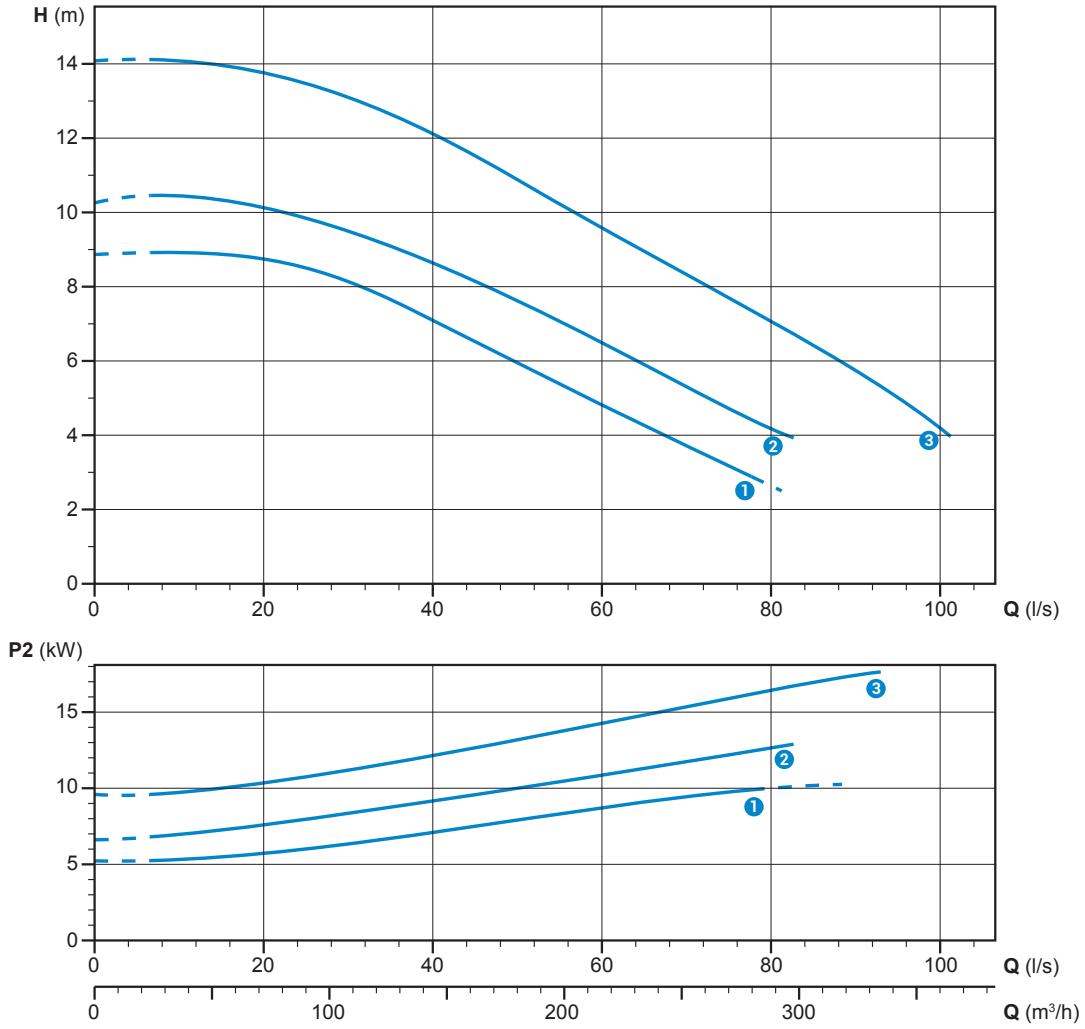
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
1 DGP 550/4/100 A0GT5	400	3	6.0	4.6	10.30	1450	Dir	4G2.5 + 3x1	DN100	80 mm
2 DGP 750/4/100 A0HT5	400	3	9.1	7.4	15.82	1450	Y Δ	7G1.5 + 3x0.75	DN100	80 mm
3 DGP 1000/4/100 A0HT5	400	3	12.8	10.45	21.74	1450	Y Δ	7G1.5 + 3x0.75	DN100	85 mm
4 DGP 1500/4/100 A0IT5	400	3	17.5	14.7	31.18	1450	Y Δ	2x 4G6 + 2G1	DN100	80 mm

DGP 4/125

Performances

	l/s	0	8	16	24	32	40	48	56	64	72	80	88	96
	l/min	0	480	960	1440	1920	2400	2880	3360	3840	4320	4800	5280	5760
	m³/h	0	28.8	57.6	86.4	115.2	144	172.8	201.6	230.4	259.2	288	316.8	345.6
1	DGP 1000/4/125 A0HT5	*8.8*	8.9	8.8	8.6	8.0	7.0	6.2	5.4	4.2	3.4			
2	DGP 1500/4/125 A0IT5	*10.2*	10.4	10.2	9.9	9.4	8.6	7.8	6.9	6.0	5.0	4.1		
3	DGP 2000/4/125 A0IT5	*14.1*	14.1	13.9	13.5	13.0	12.1	11.1	10.1	9.0	8.0	7.1	6.0	4.7

Characteristic curves according to UNI EN ISO 9906

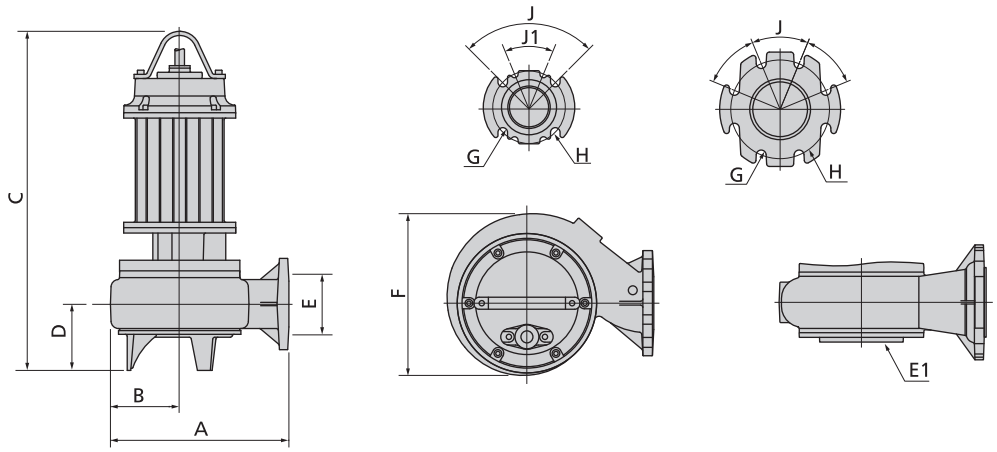


Technical data

		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
1	DGP 1000/4/125 A0HT5	400	3	12.8	10.45	21.74	1450	Y Δ	7G1.5 + 3x0.75	DN125	98 mm
2	DGP 1500/4/125 A0IT5	400	3	17.5	14.7	31.18	1450	Y Δ	2x 4G6 + 2G1	DN125	102 mm
3	DGP 2000/4/125 A0IT5	400	3	22.5	18.8	39.60	1450	Y Δ	2x 4G6 + 2G1	DN125	102 mm

DGP

Overall dimensions and weights

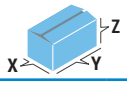


	A	B	C	D	E	E1 (*)	F	G	H	J	J1	kg
DGP 550/4/80 A0GT5	390	150	725	150	80	-	290	18	160	90°	45°	81
DGP 750/4/80 A0HT5	445	175	810	155	80	DN80 PN6	340	18	160	90°	45°	122
DGP 1000/4/80 A0HT5	445	175	810	155	80	DN80 PN6	340	18	160	90°	45°	130
DGP 550/4/100 A0GT5	415	160	740	155	100	-	310	18	180	45°	-	84
DGP 750/4/100 A0HT5	430	165	820	160	100	DN100 PN6	335	18	180	45°	-	115
DGP 1000/4/100 A0HT5	430	165	820	160	100	DN100 PN6	335	18	180	45°	-	125
DGP 1500/4/100 A0IT5	430	165	970	160	100	DN100 PN6	335	18	180	45°	-	165
DGP 1000/4/125 A0HT5	580	280	890	200	125	DN150 PN10	555	18	210	90°	-	180
DGP 1500/4/125 A0IT5	580	280	1010	200	125	DN150 PN10	555	18	210	90°	-	199
DGP 2000/4/125 A0IT5	580	280	1010	200	125	DN150 PN10	555	18	210	90°	-	216

(*) Suction flange available upon request

Dimensions in mm

Packaging dimension



	X	Y	Z
DGP 550/4/80 A0GT5	725	445	415
DGP 750/4/80 A0HT5	915	515	555
DGP 1000/4/80 A0HT5	915	515	555
DGP 550/4/100 A0GT5	725	445	415
DGP 750/4/100 A0HT5	915	515	555
DGP 1000/4/100 A0HT5	915	515	555
DGP 1500/4/100 A0IT5	915	515	555
DGP 1000/4/125 A0HT5	915	515	555
DGP 1500/4/125 A0IT5	1165	720	685
DGP 2000/4/125 A0IT5	1165	720	685

Dimensions in mm