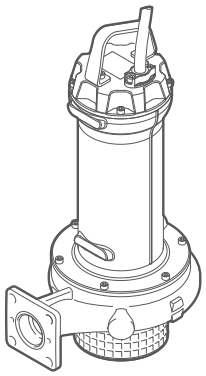
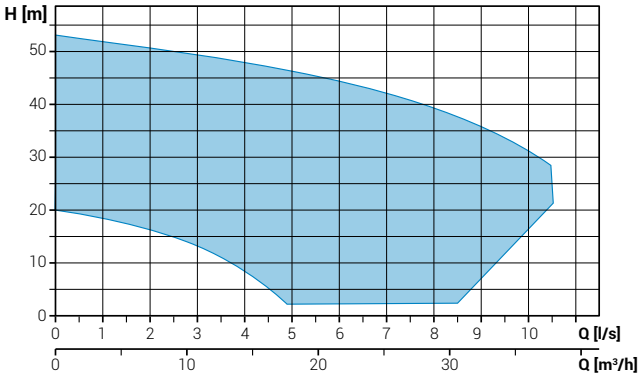
High head impeller



Operating ranges



Range characteristics

Motor power	1.8 ÷ 7.5 kW
Poles	2
Insulation class	H
Degree of protection	IP68
Discharge	GAS 1½ - 2" DN32 horizontal
Free passage	max 10 mm
Max flow rate	10.5 l/s
Max head	53.0 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

The considerable manometric head guarantees excellent results for the creation of water features and decorative fountains; suitable for use in agriculture, irrigation and the fish processing sector.

Versions

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

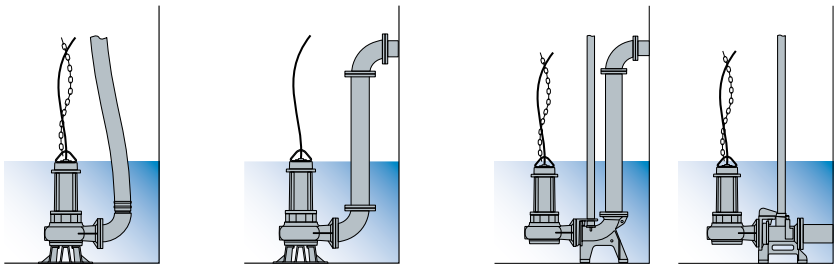
Operating specifications

Max operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm^2/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm^3
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
Strainer	Stainless steel - AISI 304
Paint type	Ecological bicomponent epoxy (~ 200 µm)

Installations

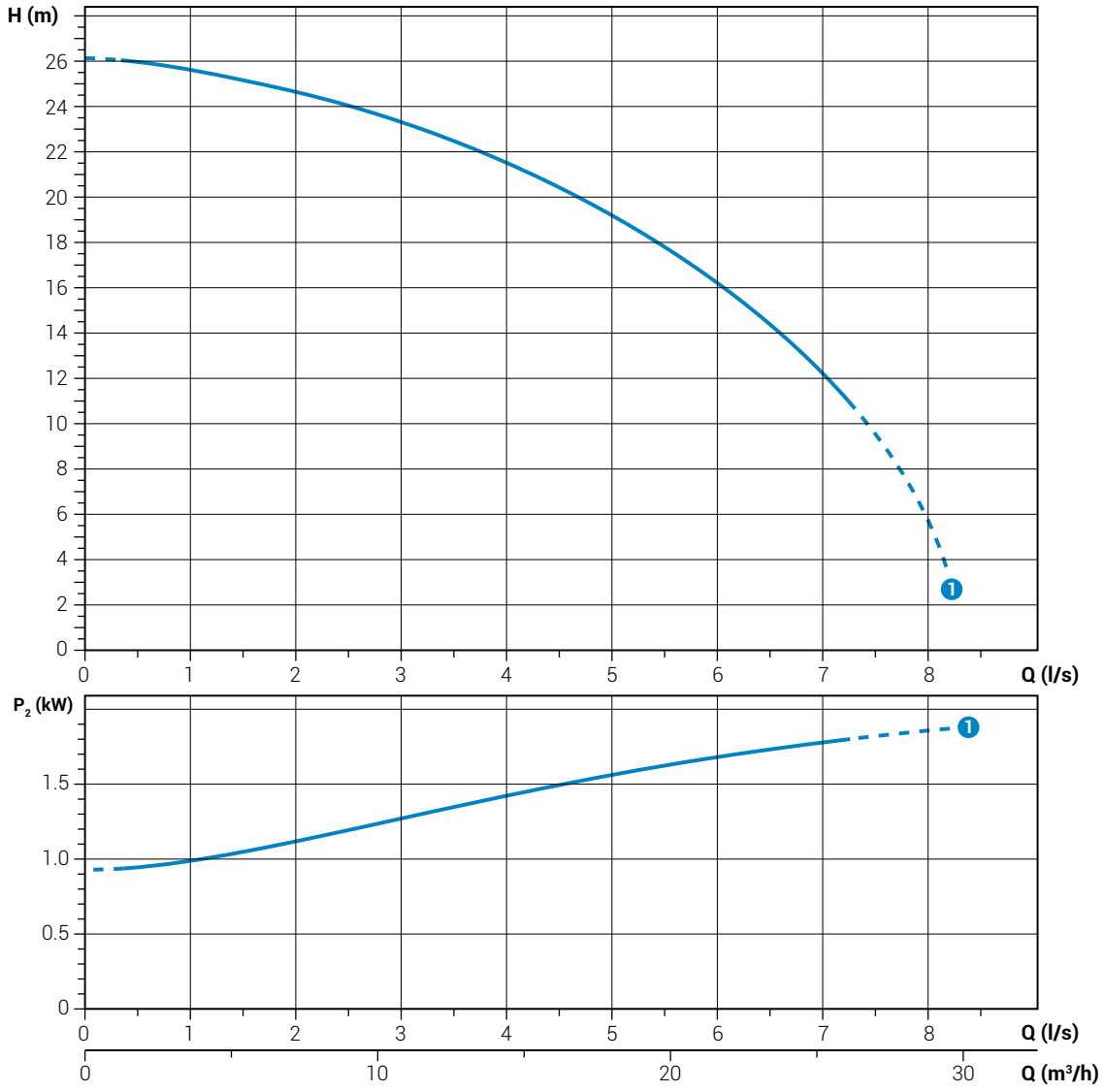


Free Fixed with base coupling foot

APG 250/2/G40H

Performances

	l/s	0	1	2	3	4	5	6	7
	l/min	0	60	120	180	240	300	360	420
	m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2
1	APG 250/2/G40H A0AT5	*26.0*	25.7	24.6	23.3	21.6	19.2	16.2	12.3



Characteristic curves according to UNI EN ISO 9906

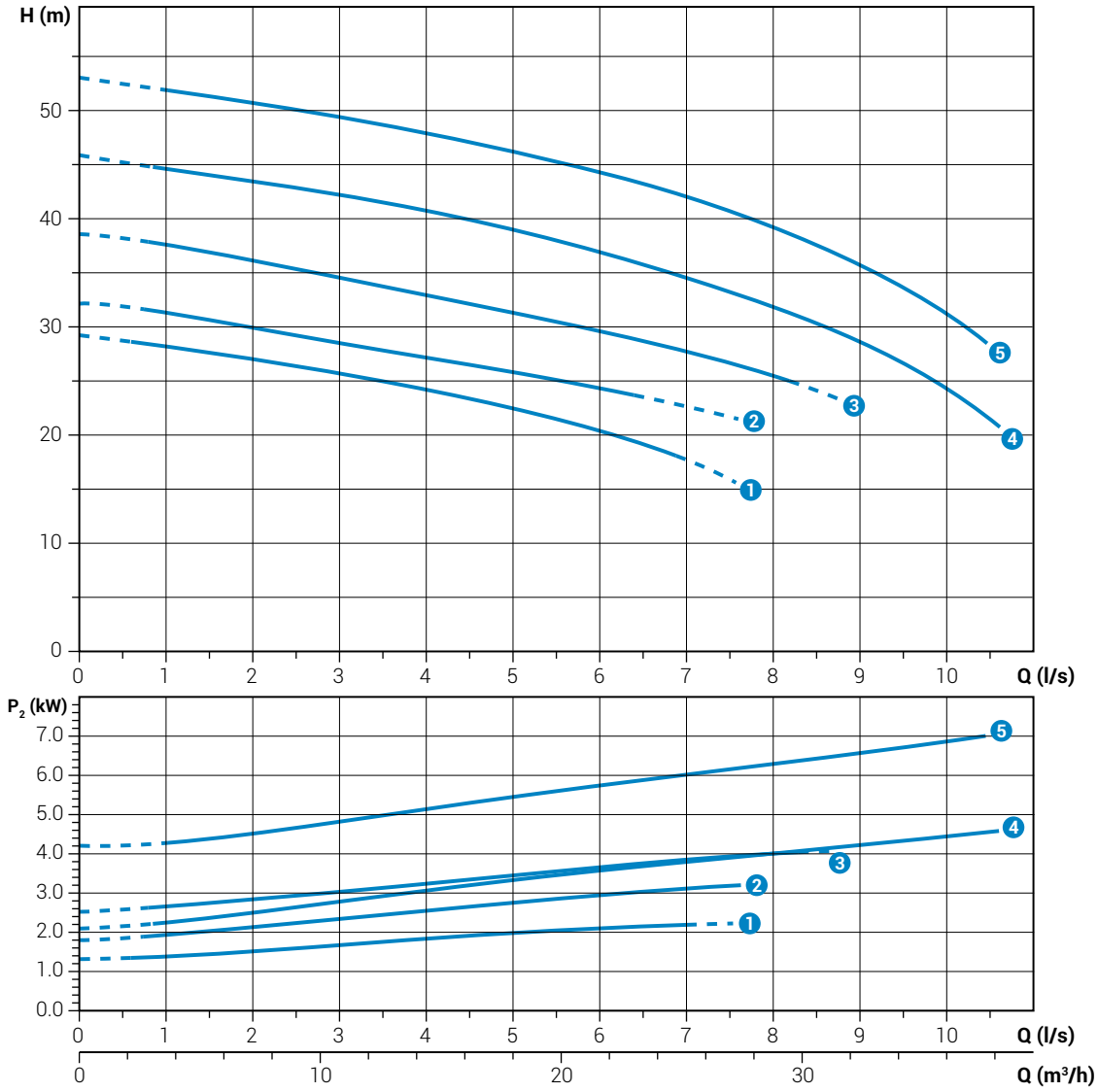
Technical data

		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
1	APG 250/2/G40H A0AT5	400	3	2.19	1.8	3.7	2900	Dir	4G1	DN32-G 1½"	10 mm

APG 300 ÷ 1000/2/G50H

Performances

		l/s	0	1	2	3	4	5	6	7	8	9	10
		l/min	0	60	120	180	240	300	360	420	480	540	600
		m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4	36
1	APG 300/2/G50H C0ET5		*29.2*	28.2	27.0	25.6	24.1	22.5	20.4	17.6			
2	APG 400/2/G50H D0ET5		*32.2*	31.4	29.9	28.5	27.2	25.9	24.4				
3	APG 550/2/G50H D0FT5		*38.6*	37.6	36.1	34.5	32.9	31.3	29.6	27.7	25.4		
4	APG 750/2/G50H A0FT5		*45.8*	44.5	43.5	42.2	40.7	38.9	36.8	34.5	31.8	28.6	24.2
5	APG 1000/2/G50H A0FT5		*53.0*	*51.8*	50.7	49.4	48.0	46.3	44.3	42.0	39.2	35.8	31.2



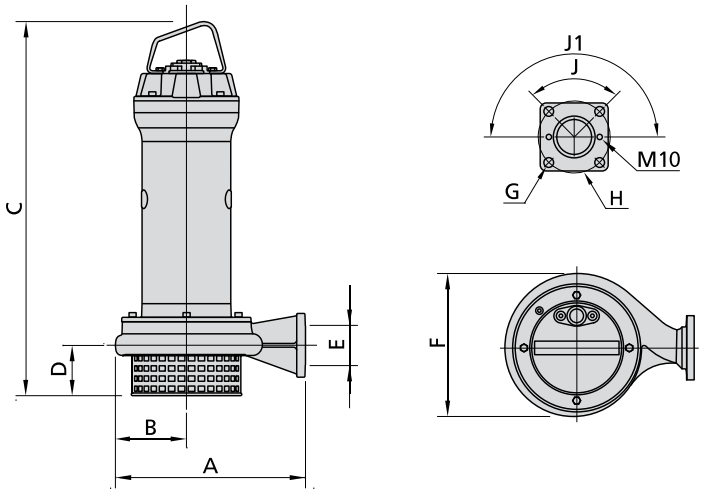
Characteristic curves according to UNI EN ISO 9906

Technical data

		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
1	APG 300/2/G50H C0ET5	400	3	2.76	2.2	4.62	2900	Dir	4G1.5+3x1	DN32 - G2"	8 mm
2	APG 400/2/G50H D0ET5	400	3	3.68	3.0	6.36	2900	Dir	4G1.5+3x1	DN32 - G2"	8 mm
3	APG 550/2/G50H D0FT5	400	3	4.66	4.0	7.73	2900	Dir	4G1.5+3x1	DN32 - G2"	8 mm
4	APG 750/2/G50H A0FT5	400	3	6.32	5.5	10.8	2900	Dir	4G1.5+3x1	DN32 - G2"	10 mm
5	APG 1000/2/G50H A0FT5	400	3	8.51	7.5	13.7	2900	Dir	4G1.5+3x1	DN32 - G2"	10 mm

APG

Overall dimensions and weights



	A	B	C	D	E	F	G	H	J°	J1°	kg
APG 250/2/G40H A0AT5	267	107	523	78	GAS1½"- DN32	215	14	90	90	-	32
APG 300/2/G50H C0ET5	305	110	550	79	GAS 2"- DN32	225	18	125	45	90	58.6
APG 400/2/G50H D0ET5	352	132	613	76	GAS 2"- DN32	263	18	125	45	90	60.6
APG 550/2/G50H D0FT5	352	132	670	76	GAS 2"- DN32	263	18	125	45	90	57.0
APG 750/2/G50H A0FT5	352	128	669	76	GAS 2"- DN32	263	18	125	45	90	59.7
APG 1000/2/G50H A0FT5	352	128	744	76	GAS 2"- DN32	263	18	125	45	90	68.7

Dimensions in mm

Packaging dimension

	X	Y	Z
APG 250/2/G40H A0AT5	310	580	310
APG 300/2/G50H C0ET5	445	725	425
APG 400/2/G50H D0ET5	445	725	425
APG 550/2/G50H D0FT5	445	725	425
APG 750/2/G50H A0FT5	445	725	425
APG 1000/2/G50H A0FT5	535	915	560

Dimensions in mm