

# DGX

## Special alloy pumps



All product images are indicative only

### General characteristics

Special alloy pump	
motor power	0,37 ÷ 1,5 kW
poles	2 / 4
discharge	GAS 2" vertical DN65 - DN80 horizontal
free passage	max 60 mm
max flow rate	18.4 l/s
max head	14.9 m

### Electromechanical assembly

Electromechanical assembly in CF-8M (AISI 316) stainless steel, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals assembled opposing and with oil lubrication. Oil bath motor.

### Applications

Ideal for lifting strongly corrosive or aggressive strained liquids, especially in the chemical industry. Intended for specific industrial applications.

### Construction materials

Case	Cast stainless steel - CF-8M (AISI 316)
Impeller	Stainless steel
Nuts and bolts	Stainless steel - Class A4-70
Standard gasket	Rubber - VITON
Shaft	Stainless steel - AISI 316
Set of standard mechanical seals	Two silicon carbide mechanical seals (2SiC)

### Operating limits

Maximum operating temperature	40 °C
PH of treated fluid	5 ÷ 10
Viscosity of treated fluid	1 mm <sup>2</sup> /s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm <sup>3</sup>
Maximum acoustic pressure	70 dB
max starts per hour	30



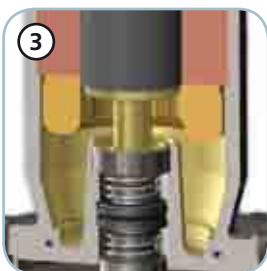
**Handle and cable gland**

AISI 316 stainless steel lifting and carrying handle. A rigid or flexible duct can be fixed to the cable gland to protect the power supply cable.



**Structure**

CF-8M steel construction which makes the pump suitable for use in saline environments.



**Motor**

Oil-bath motor with thermal protections.



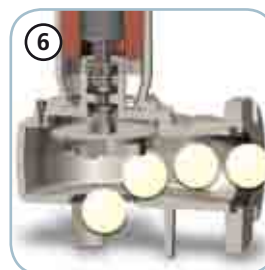
**Mechanical seals**

Two mechanical seals in silicon carbide (2SiC).



**Impeller**

Vortex impeller in CF-8M steel.



**Free passage**

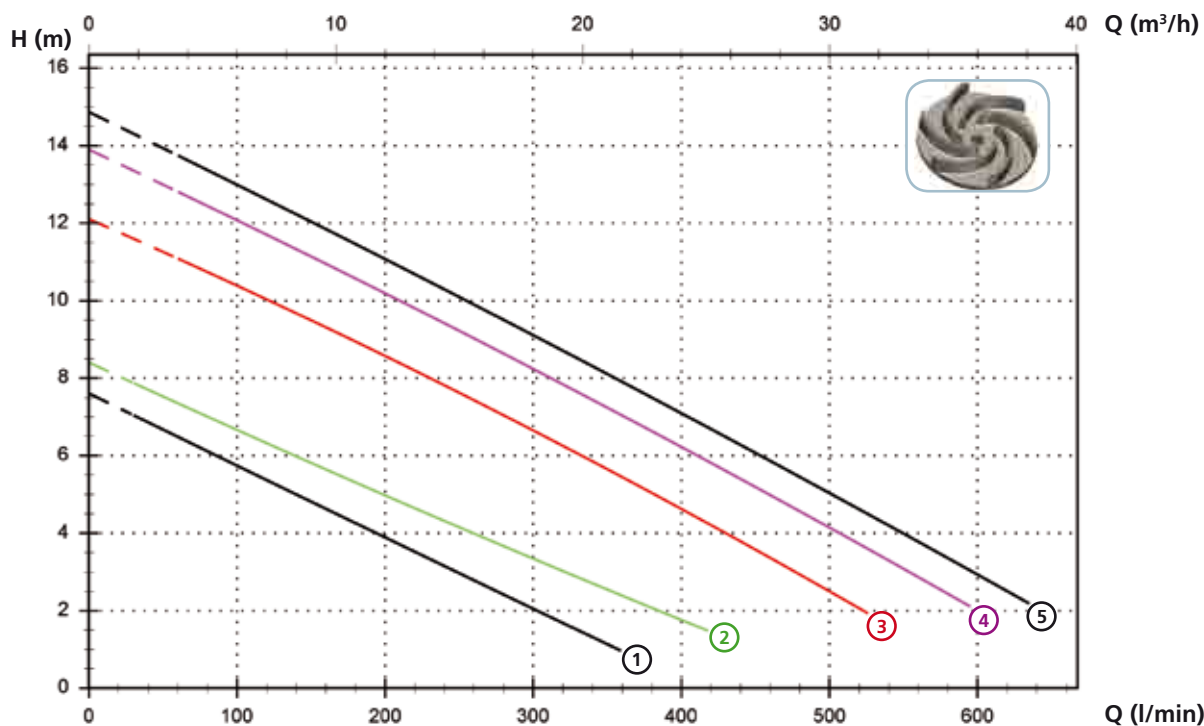
Wide free passage allowing the expulsion of solids and preventing fouling of the impeller.

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## Models with vertical GAS 2" threaded discharge - 2 poles

### 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
	m <sup>3</sup> /h	0	3.6	7.2	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0
① DGX 50/2/G50V A0CM(T)/50		7.6	6.5	5.4	4.3	3.2	2.1					
② DGX 75/2/G50V A0CM(T)/50		8.4	7.4	6.3	5.3	4.3	3.3	2.4				
③ DGX 100/2/G50V A0CM(T)/50		12.1	11.1	10.0	8.9	7.8	6.7	5.4	4.2	2.9		
④ DGX 150/2/G50V A0CM(T)/50		13.9	12.8	11.7	10.6	9.4	8.2	7.0	5.8	4.6	3.3	
⑤ DGX 200/2/G50V A0CM(T)/50		14.9	13.7	12.6	11.5	10.3	9.1	7.9	6.7	5.5	4.2	2.9



### Technical data

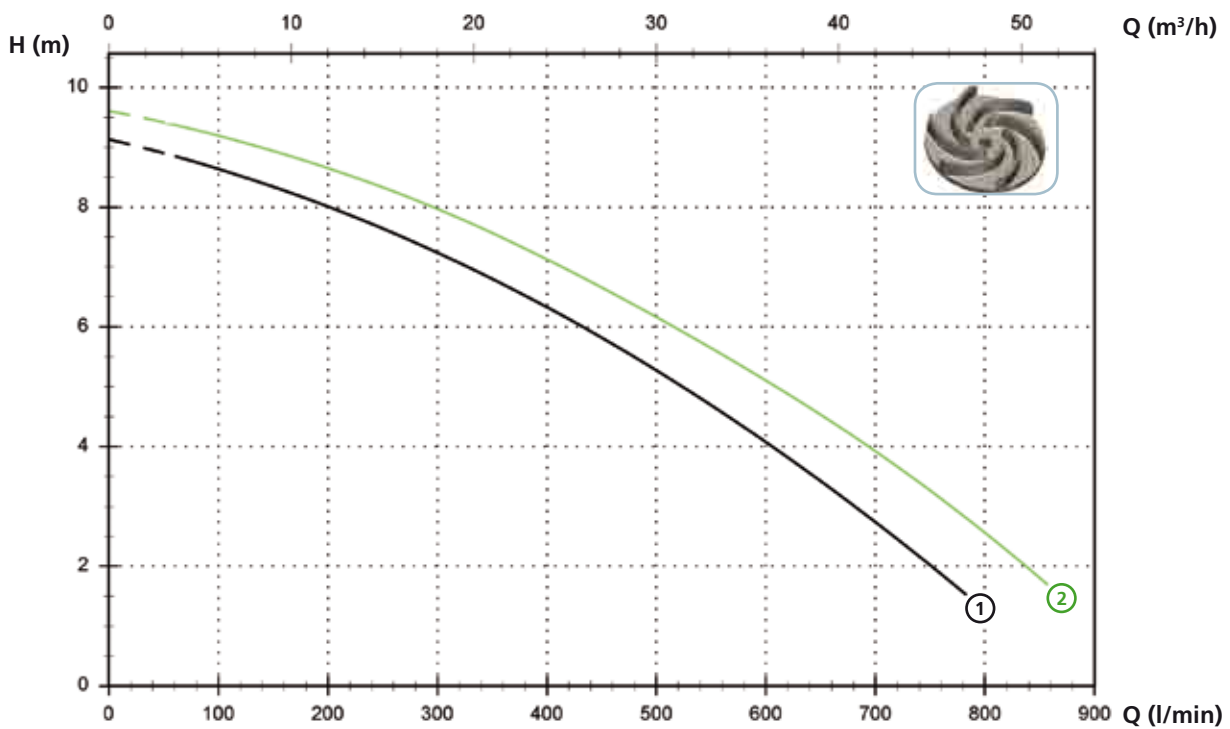
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 50/2/G50V A0CM/50	230	1	-	0.37	2.9	2900	Dir	G 2"	38 mm
② DGX 75/2/G50V A0CM/50	230	1	-	0.55	3.9	2900	Dir	G 2"	38 mm
③ DGX 100/2/G50V A0CM/50	230	1	-	0.88	6.5	2900	Dir	G 2"	38 mm
④ DGX 150/2/G50V A0CM/50	230	1	-	1.1	8.2	2900	Dir	G 2"	38 mm
⑤ DGX 200/2/G50V A0CM/50	230	1	-	1.5	9.3	2900	Dir	G 2"	38 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 50/2/G50V A0CT/50	400	3	-	0.37	1.1	2900	Dir	G 2"	38 mm
② DGX 75/2/G50V A0CT/50	400	3	-	0.55	1.42	2900	Dir	G 2"	38 mm
③ DGX 100/2/G50V A0CT/50	400	3	-	0.88	2.3	2900	Dir	G 2"	38 mm
④ DGX 150/2/G50V A0CT/50	400	3	-	1.1	2.7	2900	Dir	G 2"	38 mm
⑤ DGX 200/2/G50V A0CT/50	400	3	-	1.5	3.5	2900	Dir	G 2"	38 mm

**Models with horizontal DN65 PN10-16 flanged discharge - 2 poles**

**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 DGX 150/2/65 A0CM(T)50		9.1	8.5	7.7	6.7	5.5	4.1	2.5	
② DGX 200/2/65 A0CM(T)50		9.6	9.1	8.4	7.5	6.4	5.1	3.7	2.0



**Technical data**

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 150/2/65 A0CM/50	230	1	-	1.1	8.2	2900	Dir	DN65 PN10-16	50 mm
② DGX 200/2/65 A0CM/50	230	1	-	1.5	9.3	2900	Dir	DN65 PN10-16	50 mm

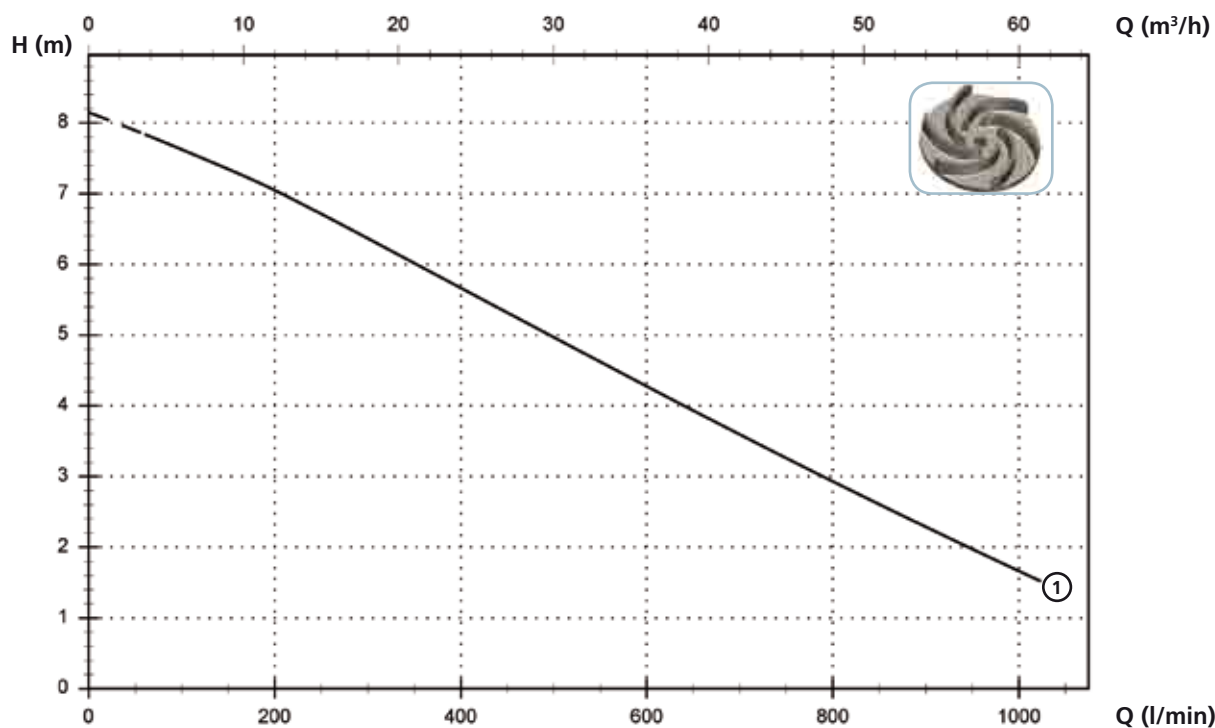
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 150/2/65 A0CT/50	400	3	-	1.1	2.7	2900	Dir	DN65 PN10-16	50 mm
② DGX 200/2/65 A0CT/50	400	3	-	1.5	3.5	2900	Dir	DN65 PN10-16	50 mm

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## Models with horizontal DN80 PN10 flanged discharge - 2 poles

### Performances

	l/s	0	2	4	6	8	10	12	14	16
	l/min	0	120	240	360	480	600	720	840	960
	m <sup>3</sup> /h	0	7.2	14.4	21.6	28.8	36.0	43.2	50.4	57.6
① DGX 200/2/80A A0CM(T)/50		8.1	7.5	6.8	5.9	5.1	4.3	3.5	2.7	1.9



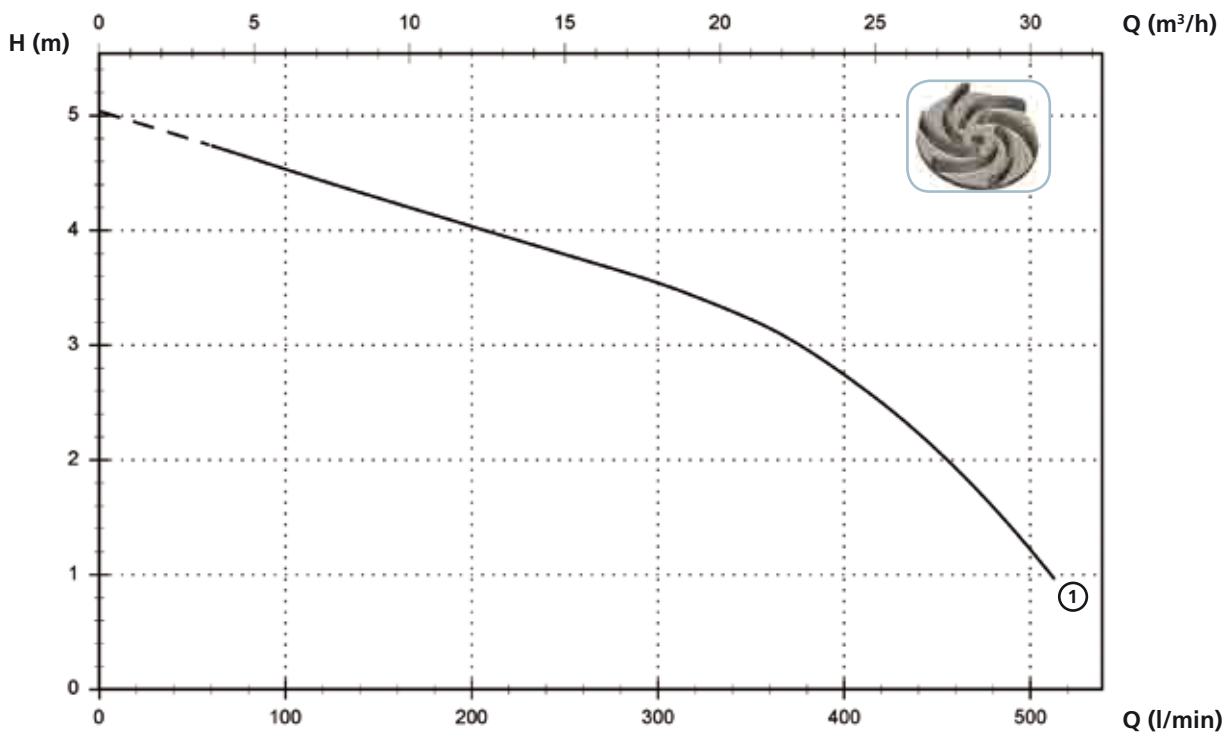
### Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 200/2/80 A0CM/50	230	1	-	1.5	9.3	2900	Dir	DN80 PN10	60 mm
① DGX 200/2/80 A0CT/50	400	3	-	1.5	3.5	2900	Dir	DN80 PN10	60 mm

**Models with vertical GAS 2" threaded discharge - 4 poles**

**Performances**

	l/s	0	1	2	3	4	5	6	7	8
	l/min	0	60	120	180	240	300	360	420	480
	m <sup>3</sup> /h	0	3.6	7.2	10.8	14.4	18.0	21.6	25.2	28.8
① DGX 100/4/G50V A0CM(T)/50		5.0	4.7	4.4	4.1	3.8	3.5	3.1	2.5	1.6



**Technical data**

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 100/4/G50V A0CM/50	230	1	-	0.63	4.5	1450	Dir	G 2"	20 mm

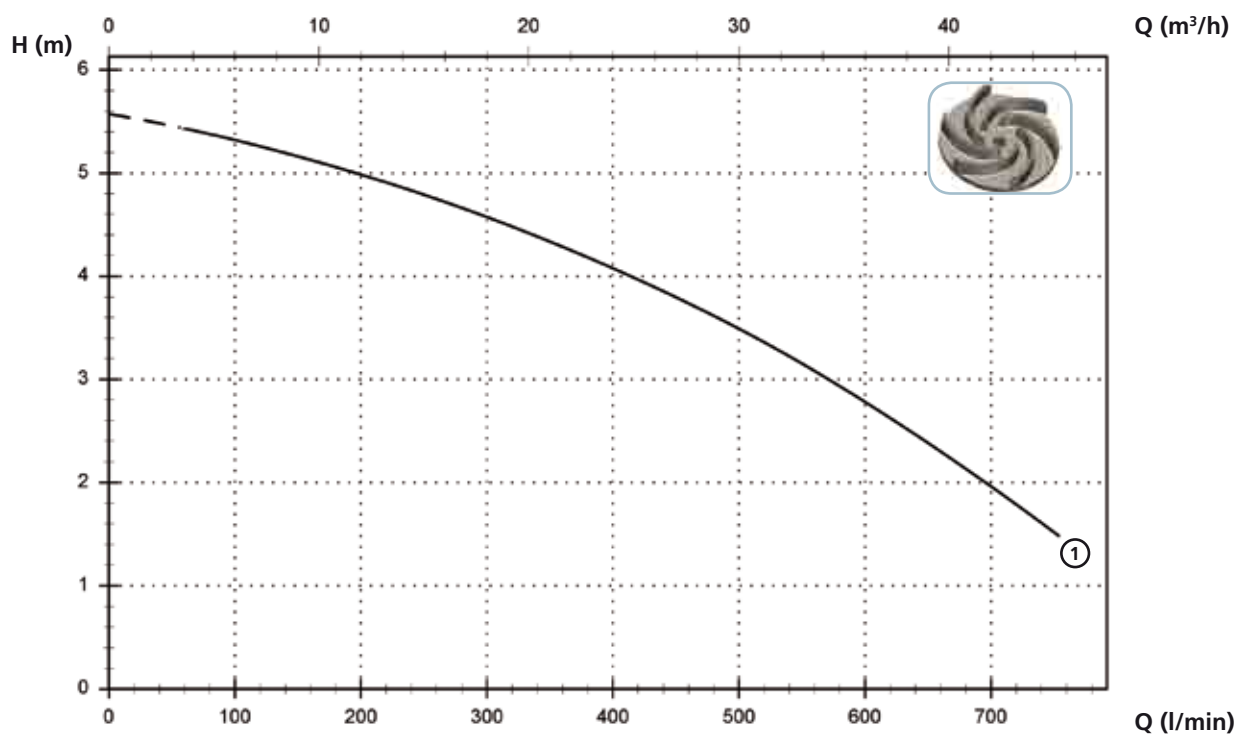
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 100/4/G50V A0CT/50	400	3	-	0.63	1.85	1450	Dir	G 2"	20 mm

# DGX

## Models with horizontal DN65 PN10-16 flanged discharge - 4 poles

### Performances

	l/s	0	2	4	6	8	10	12
	l/min	0	120	240	360	480	600	720
	m <sup>3</sup> /h	0	7.2	14.4	21.6	28.8	36.0	43.2
① DGX 150/4/65 A0CM(T)/50		5.6	5.3	4.8	4.3	3.6	2.8	1.8



### Technical data

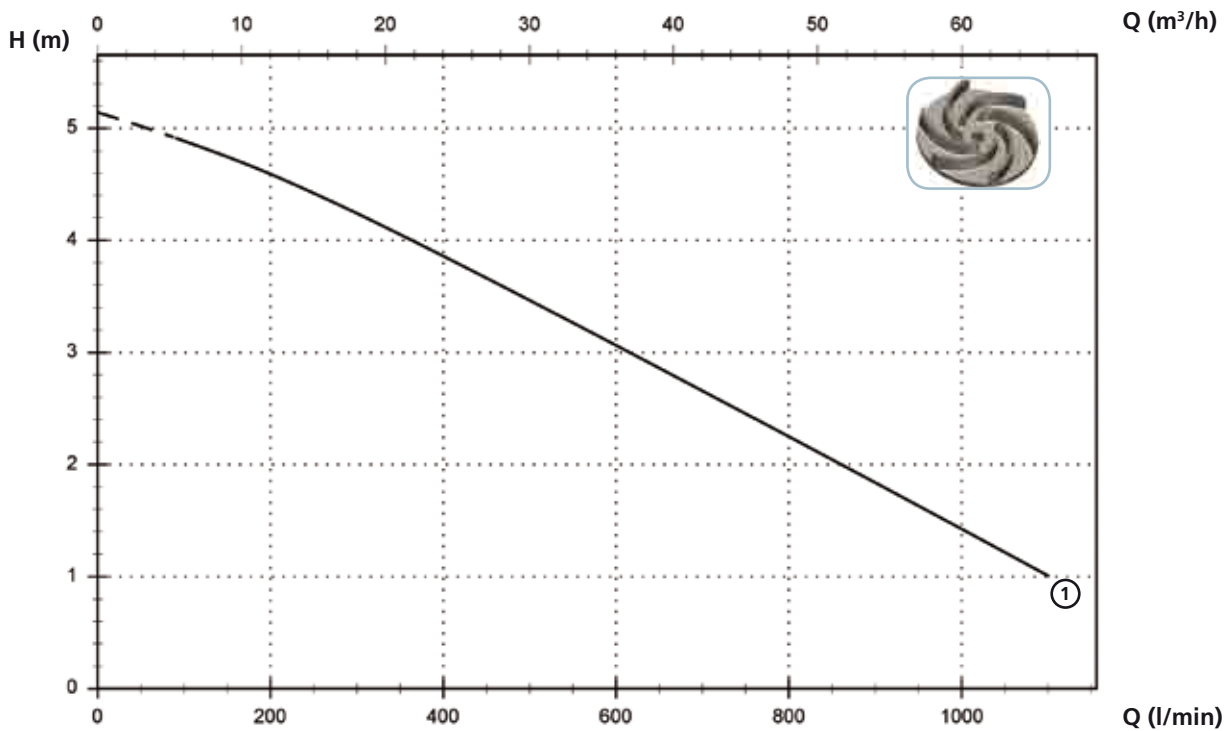
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 150/4/65 A0CM/50	230	1	-	0.9	6.3	1450	Dir	DN65 PN10-16	45 mm
① DGX 150/4/65 A0CT/50	400	3	-	0.9	2.2	1450	Dir	DN65 PN10-16	45 mm

**Models with horizontal DN80 PN10 flanged discharge - 4 poles**

**Performances**

<i>l/s</i>	0	2	4	6	8	10	12	14	16	18
<i>l/min</i>	0	120	240	360	480	600	720	840	960	1080
<i>m³/h</i>	0	7.2	14.4	21.6	28.8	36.0	43.2	50.4	57.6	64.8

① DGX 150/4/80 A0CM(T)/50	5.1	4.8	4.5	4.0	3.5	3.1	2.6	2.1	1.6	1.1
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**Technical data**

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 150/4/80 A0CM/50	230	1	-	0.9	6.3	1450	Dir	DN80 PN10	60 mm
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① DGX 150/4/80 A0CT/50	400	3	-	0.9	2.23	1450	Dir	DN80 PN10	60 mm



# DGX

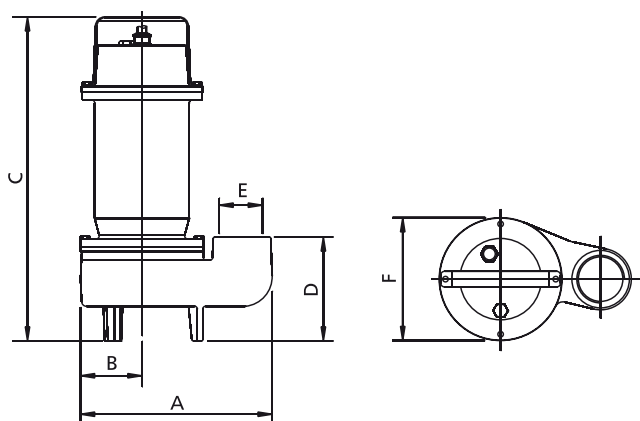
## Versions available

(Key to versions on page 16)

	Electrical variants											Cooling				Mechanical seals				
	N A E	T	T C	T C D	T C D T	T C D G T	T C G	T C S T	T C S G T	T S	T R	T R G	N	CC CCE	FT	C G F T	2SIC	SICM	SICAL	2SICAL
DGX 50/2/G50V A0CM/50		●						●	●			●					●			
DGX 75/2/G50V A0CM/50		●						●	●			●					●			
DGX 100/2/G50V A0CM/50		●						●	●			●					●			
DGX 150/2/G50V A0CM/50		●						●	●			●					●			
DGX 200/2/G50V A0CM/50		●						●	●			●					●			
DGX 50/2/G50V A0CT/50	●											●					●			
DGX 75/2/G50V A0CT/50	●											●					●			
DGX 100/2/G50V A0CT/50	●											●					●			
DGX 150/2/G50V A0CT/50	●											●					●			
DGX 200/2/G50V A0CT/50	●											●					●			
DGX 150/2/65 A0CM/50		●						●	●			●					●			
DGX 200/2/65 A0CM/50		●						●	●			●					●			
DGX 150/2/65 A0CT/50	●											●					●			
DGX 200/2/65 A0CT/50	●											●					●			
DGX 200/2/80 A0CM/50		●						●	●			●					●			
DGX 200/2/80 A0CT/50	●											●					●			
DGX 100/4/G50V A0CM/50		●						●	●			●					●			
DGX 100/4/G50V A0CT/50	●											●					●			
DGX 150/4/65 A0CM/50		●						●	●			●					●			
DGX 150/4/65 A0CT/50	●											●					●			
DGX 150/4/80 A0CM/50		●						●	●			●					●			
DGX 150/4/80 A0CT/50	●											●					●			

## Overall dimensions and weights

### Models with vertical discharge



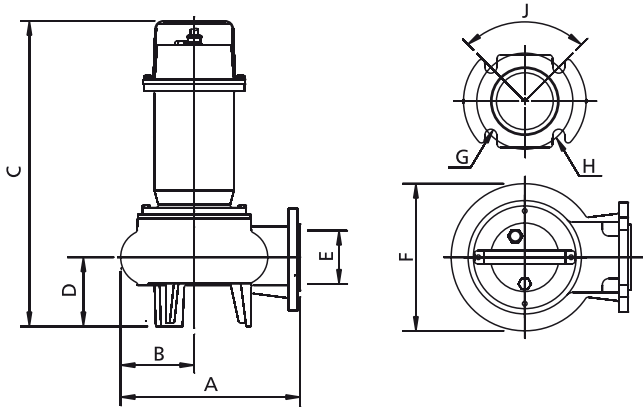
	A	B	C	D	E	F	kg
DGX 50/2/G50V A0CM(T)/50	225	75	360	120	G 2"	155	18
DGX 75/2/G50V A0CM(T)/50	225	75	360	120	G 2"	155	18
DGX 100/2/G50V A0CM (T)/50	245	80	410	130	G 2"	155	22
DGX 150/2/G50V A0CM (T)/50	245	80	410	130	G 2"	155	23
DGX 200/2/G50V A0CM (T)/50	245	80	410	130	G 2"	155	22
DGX 100/4/G50V A0CM (T)/50	245	80	410	130	G 2"	155	22

Dimensions in mm

All weights and dimensions are indicative only

## Overall dimensions and weights

### Models with horizontal discharge



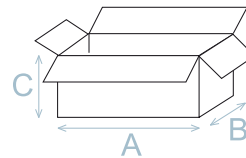
	A	B	C	D	E	F	G	H	J	kg
DGX 150/2/65 A0CM(T)/50	270	110	460	105	65	220	18	145	90°	28
DGX 200/2/65 A0CM(T)/50	270	110	460	105	65	220	18	145	90°	29
DGX 200/2/80 A0CM(T)/50	270	110	460	105	80	220	18	160	90°	33.5
DGX 150/4/65 A0CM(T)/50	270	110	460	105	65	220	18	145	90°	29
DGX 150/4/80 A0CM(T)/50	295	120	470	115	80	220	18	160	90°	33.5

Dimensions in mm

All weights and dimensions are indicative only

### Packaging dimension

	A	B	C
DGX 50/2/G50V A0CM(T)/50	385	225	245
DGX 75/2/G50V A0CM(T)/50	385	225	245
DGX 100/2/G50V A0CM(T)/50	475	285	235
DGX 150/2/G50V A0CM(T)/50	475	285	235
DGX 200/2/G50V A0CM(T)/50	475	285	235
DGX 100/4/G50V A0CM(T)/50	580	310	310
DGX 150/2/65 A0CM(T)/50	580	310	310
DGX 200/2/65 A0CM(T)/50	580	310	310
DGX 200/2/80 A0CM(T)/50	580	310	310
DGX 150/4/65 A0CM(T)/50	580	310	310
DGX 150/4/80 A0CM(T)/50	580	310	310



Dimension in mm

All weights and dimensions are indicative only

### Installations available

