ELETTROPOMPE SOMMERGIBILI
GIRANTE VORTEX

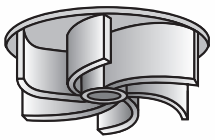


VORTEX IMPELLER
SUBMERSIBLE PUMPS

Serie FG

1,2 - 48 kW

Mandata - *Discharge*
DN 80-100

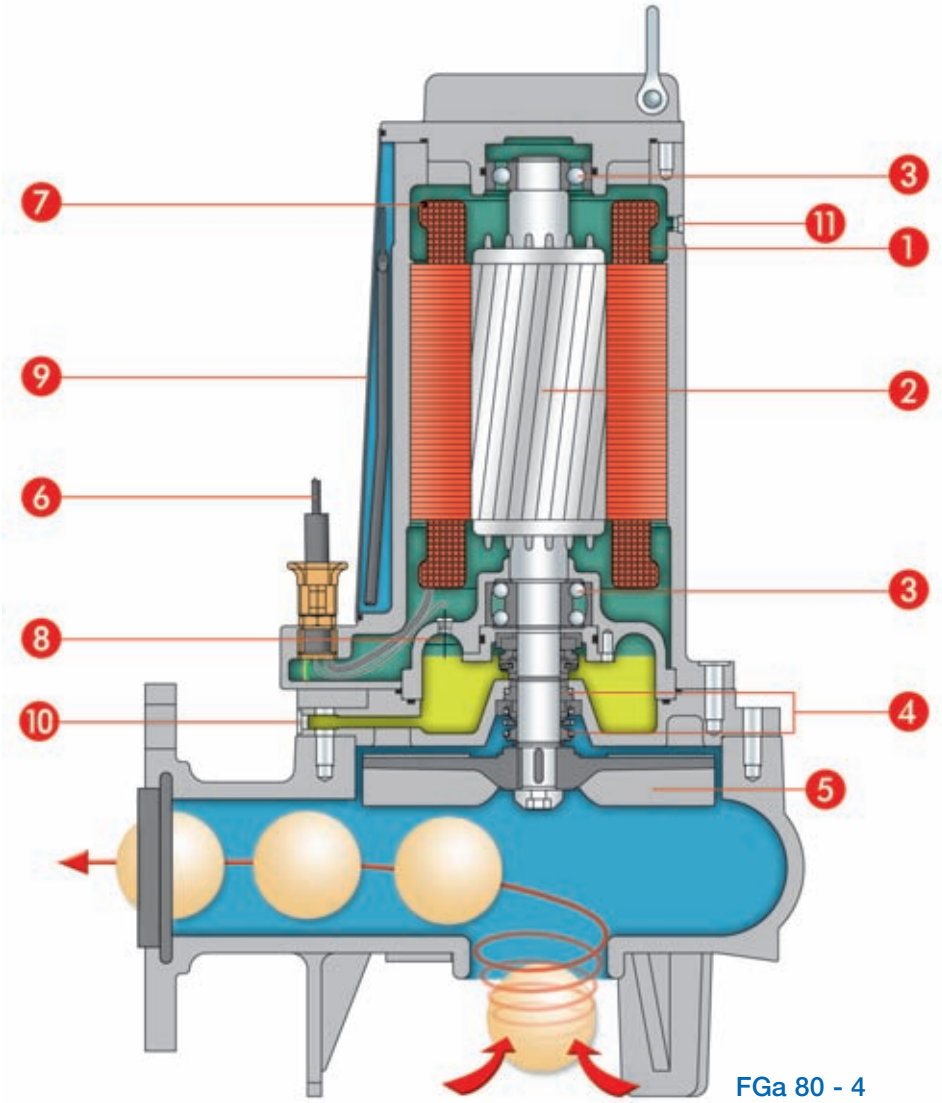


FABBRICA ITALIANA POMPE SOMMERGIBILI S.r.l

www.fips-pumps.it

CARATTERISTICHE **COSTRUTTIVE**

TECHNICAL ***FEATURES***



FGa 80 - 4

1. Motore completamente sommerso a tenuta stagna
   Classe di isolamento H. Grado di protezione IP68
   Giri: 1450-2850 al min^{-1}
   Voltaggio: trifase 3x380/415V-50 Hz
   Altri voltaggi e frequenze a richiesta
2. Albero in acciaio AISI 420
3. Cuscinetti prelubrificati lunga vita
4. Doppia tenuta meccanica in camera d'olio
   Lato acqua: carburo di silicio/carburo di silicio
   Lato motore: carburo di silicio/carburo di silicio
5. Girante Vortex in ghisa ad alto rendimento
6. Cavo H07RNF
7. Protezione termica incorporata nell'avvolgimento (optional)
8. Sonda camera olio (optional)
9. Camicia di raffreddamento (optional)
10. Ispezione olio
11. Controllo tenuta stagna motore

1. *Fully submersible pressure tight electric motor*
   Insulation class H. Protection degree IP68
   Speed: 1450-2850 rpm.
   Voltage: three-phase 3x380/415V-50 Hz
   Different voltage and frequency on request
2. *Shaft in stainless steel AISI 420*
3. *Pre-lubricated long-life bearings*
4. *Double mechanical seal in oil chamber*
   Water side: silicon carbide/silicon carbide
   Motor side: silicon carbide/silicon carbide
5. *Impeller high efficiency cast iron Vortex*
6. *Cable H07RNF*
7. *Thermal protection embedded in winding (optional)*
8. *Oil chamber probe (optional)*
9. *Cooling jacket (optional)*
10. *Oil inspection*
11. *Hole for the motor watertightness control*

Alta prevalenza. Alti rendimenti. Ampi passaggi liberi.

High head. High efficiency. Wide spherical clearance.


FG 80


FGa 2000


FGb 3000


FGb 4000

APPLICAZIONI

Le elettropompe con girante arretrata anti-intasamento, sono state progettate per il pompaggio di una grande varietà di liquidi con solidi in sospensione fino a 100 mm.
I modelli standard, in ghisa, sono utilizzati nelle varie applicazioni nel campo trattamento acqua per il pompaggio di liquami, acque sporche e di rifiuto con solidi in sospensione di grosse dimensioni, fanghi pesanti grezzi o fermentati, fanghi attivi.
Per gli impieghi industriali, i componenti idraulici, o la pompa completa, potranno essere realizzati con materiali speciali.

INSTALLAZIONE

Fissa con piede di accoppiamento e mobile con tubo flessibile.

FUNZIONAMENTO

Continuo con motore immerso (vedere disegno di ingombro quota P4).

OPTIONAL

Disponibili a richiesta versioni con motore antideflagrante.
Protezione termica negli avvolgimenti.
Sonda di rilevamento di eventuale acqua nella camera olio.
Camicia di raffreddamento.

APPLICATIONS

The pumps with no-clogging vortex impeller have been designed to pump a wide variety of contaminated liquids with solids in subspension up to 100 mm.
The standard models in cast iron execution are employed to fit many applications in the waste water treatment to pump dirty and waste liquids with big dimension solids into, heavy rough and fermented slimes.
The hydraulic components or the complete pump unit could be executed in special materials for industrial applications.

INSTALLATION

Fixed with low level coupling and movable with flexible pipe.

OPERATION

Continuous duty with submerged motor (ref. P4 of dimension size drawing).

OPTIONAL

Available on request explosion-proof executions.
Thermal protection device in the motor winding.
Catching probe for the eventual presence of water in the oil chamber.
Cooling jacket.

MATERIALI COSTRUTTIVI	
Corpo Pompa	Ghisa EN-GJL-250
Corpo Motore	Ghisa EN-GJL-250
Girante	Ghisa EN-GJL-250
Coperchio	Ghisa EN-GJL-250
Albero	X30 Cr13 (AISI 420)
Guarnizioni, Or	NBR
Cavo	H07 RNF
Viteria	Inox A2 AISI 304
LIMITI D'IMPIEGO	
Max. temperatura impiego	40 °C
Servizio	S1 sommerso
Max. avviamenti ora	15 (fino a 15 Kw) - 7 (oltre 15 Kw)
Max. profondità immersione	20 m
Ph liquido	Da 6 a 12
Viscosità liquido	1 mm^2/s
Densità liquido	1 Kg/dm^3
Max. pressione acustica	< 70 dB

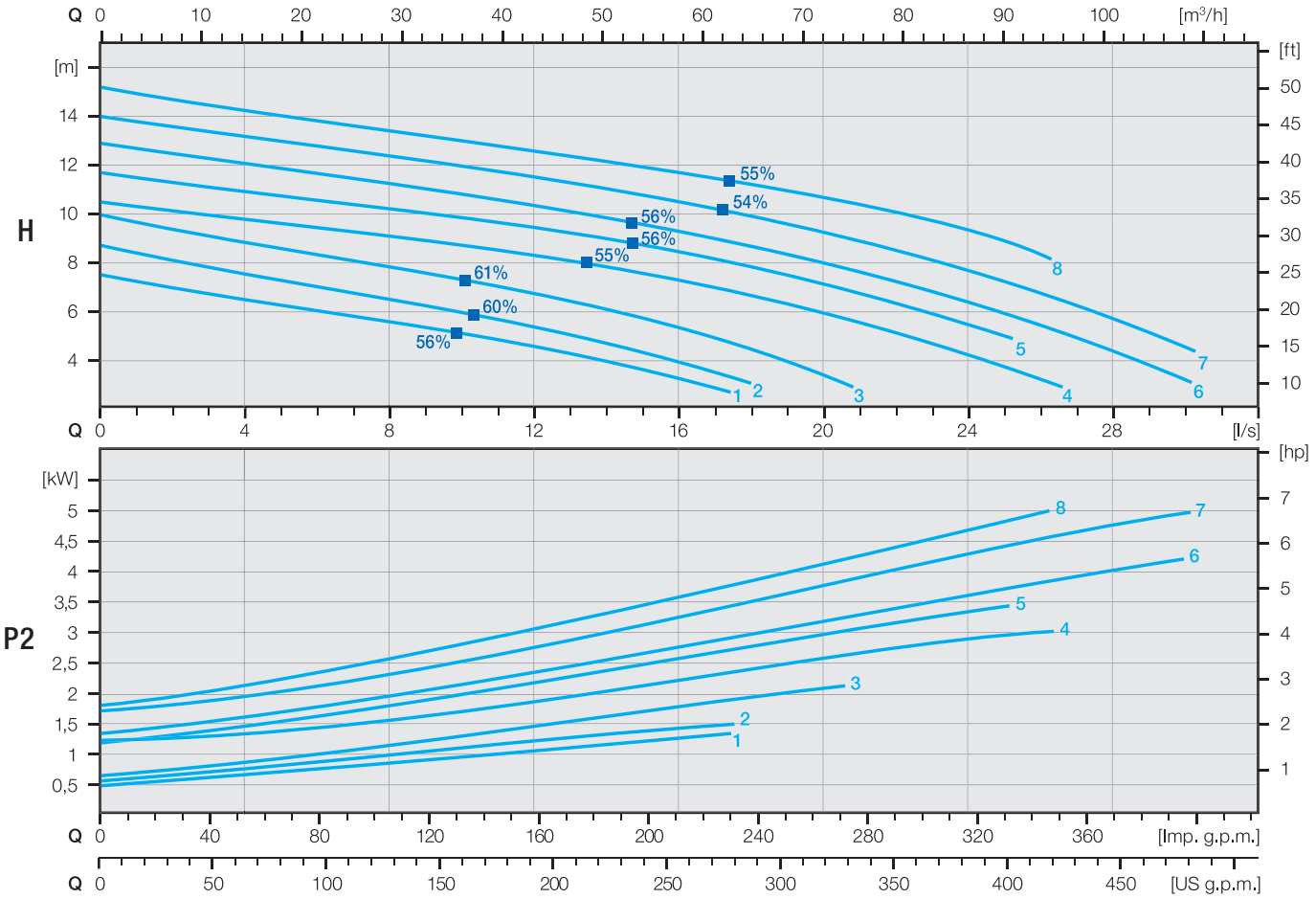
CONSTRUCTION MATERIALS	
Pump housing	*Cast iron EN-GJL-250*
Motor housing	*Cast iron EN-GJL-250*
Impeller	*Cast iron EN-GJL-250*
Cover	*Cast iron EN-GJL-250*
Shaft	*X30 Cr13 (AISI 420)*
O-rings garnitures	*NBR*
Cable	*H07 RNF*
Screws	*Inox A2 AISI 304*
APPLICATION LIMITS	
Max. application temperature	*40 °C*
Operation	*S1 submersible*
Max. startings per hour	*15 (up to 15 Kw) - 7 (over 15 Kw)*
Max. immersion depth	*20 m*
Ph liquid	*From 6 up to 12*
Liquid viscosity	*1 mm^2/s*
Liquid density	*1 Kg/dm^3*
Max. acustic pression	*< 70 dB*

CODICE IDENTIFICAZIONE PRODOTTO - *PRODUCT IDENTIFICATION CODE*

F Ga 80. 1,3 - 4 131.34

F	Ga	80.	1,3	- 4	131.34
Produzione F.I.P.S. *F.I.P.S. production*	Girante Vortex *Vortex impeller*	Nome serie *Series name*	P2 Potenza nom. motore *Motor nominal power*	Giri motore *Motor speed*	Diametro girante *Impeller diameter*

FGa 80 - 4

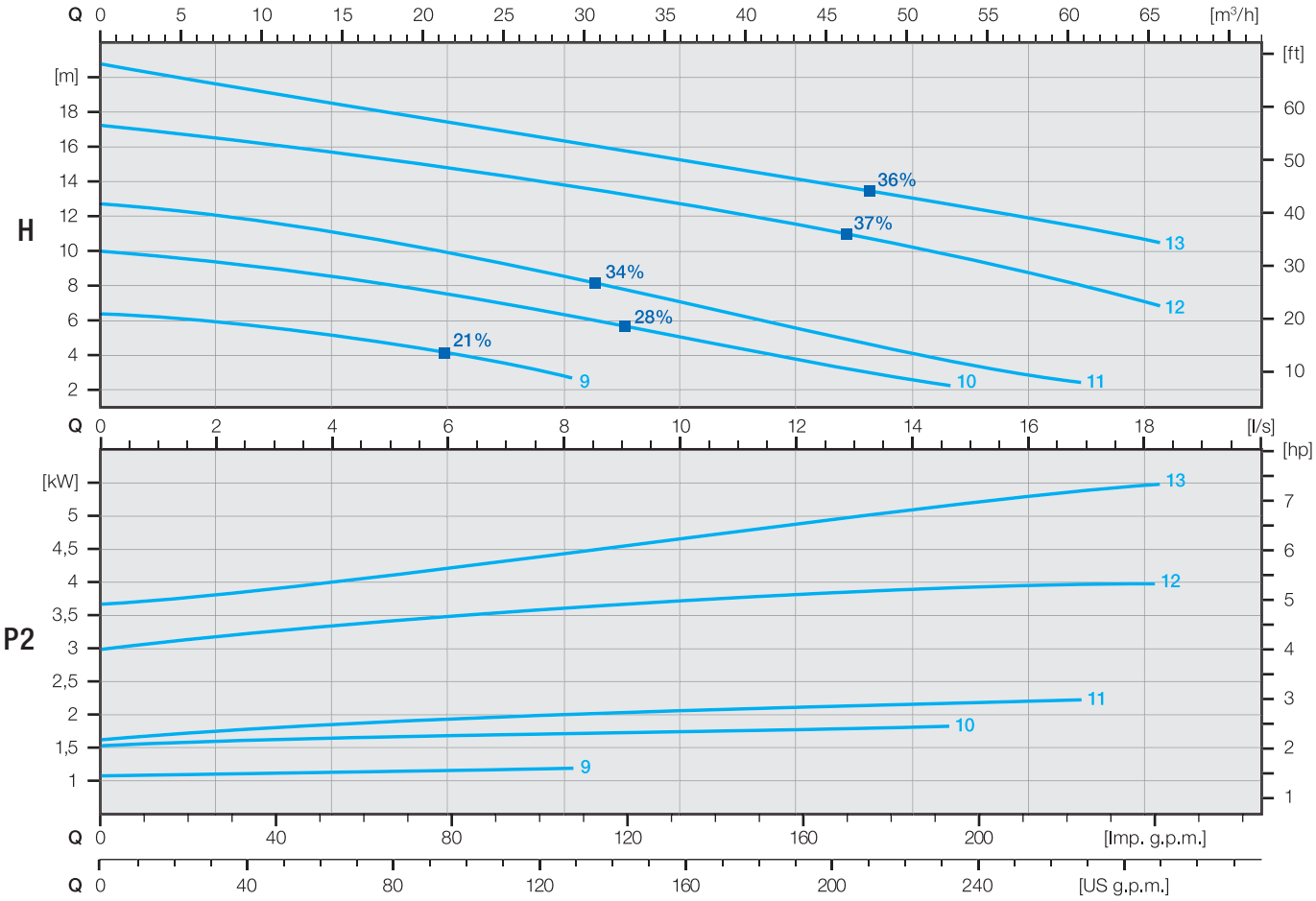


P1 = Max. potenza assorbita *Max. motor input* — P2 = Potenza nominale motore *Motor nominal power* — ■ Max. rendimento idraulico *Max. hydraulic efficiency* — H = Prevalenza *Head* — Q = Portata *Flow* — Ø = Passaggio libero *Free passage*

Caratteristiche generali - *General features*									Prestazioni - *Performances*								
	Nr	Modello - *Type*	P1 Kw	P2 Kw	Volt	Amp	Giri' rpm	DN	Ø mm	l/sec	0	4	8	12	16	20	24	28
										m³/h	0	14,4	28,8	43,2	57,6	72	86,4	100,8
4 poli - *poles*	1	FGa 80.1,3-4 / 131.34	1,5	1,3	3 x 400	3,2	1450	80	68		7,5	6,5	5,5	4,6	3,3			
	2	FGa 80.1,7-4 / 144.34	1,9	1,7	3 x 400	4	1450	80	68		8,7	7,5	6,5	5,4	3,9			
	3	FGa 80.2,2-4 / 154.34	2,9	2,2	3 x 400	4,8	1450	80	68		10	8,9	7,8	6,7	5,3	3,4		
	4	FGa 80.3-4 / 160.34	3,8	3	3 x 400	6,8	1450	80	68	H mt	10,5	9,8	9,1	8,4	7,3	5,8	4,2	
	5	FGa 80.3,5-4 / 170.34	4	3,5	3 x 400	7	1450	80	68		11,7	10,9	10,2	9,4	8,5	7,1	5,4	
	6	FGa 80.4,2-4 / 180.34	5	4,2	3 x 400	9,2	1450	80	68		12,9	12,1	11,2	10,3	9,2	8	6,4	4,4
	7	FGa 80.5-4 / 190.30	6	5	3 x 400	9,2	1450	80	72		14	13,1	12,3	11,5	10,6	9,3	7,7	5,7
	8	FGa 80.5,5-4 / 196.30	6,8	5,5	3 x 400 Δ	12	1450	80	72		15,2	14,3	13,4	12,6	11,7	10,7	9,3	

Tolleranze secondo ISO 9906 allegato A.
Tolerances according to ISO 9906 attachment A.

FGb 80 - 2
(fino a 5,5 kW)



P1 = Max. potenza assorbita *Max. motor input*
P2 = Potenza nominale motore *Motor nominal power*
■ Max. rendimento idraulico *Max. hydraulic efficiency*
H = Prevalenza *Head*
Q = Portata *Flow*
Ø = Passaggio libero *Free passage*

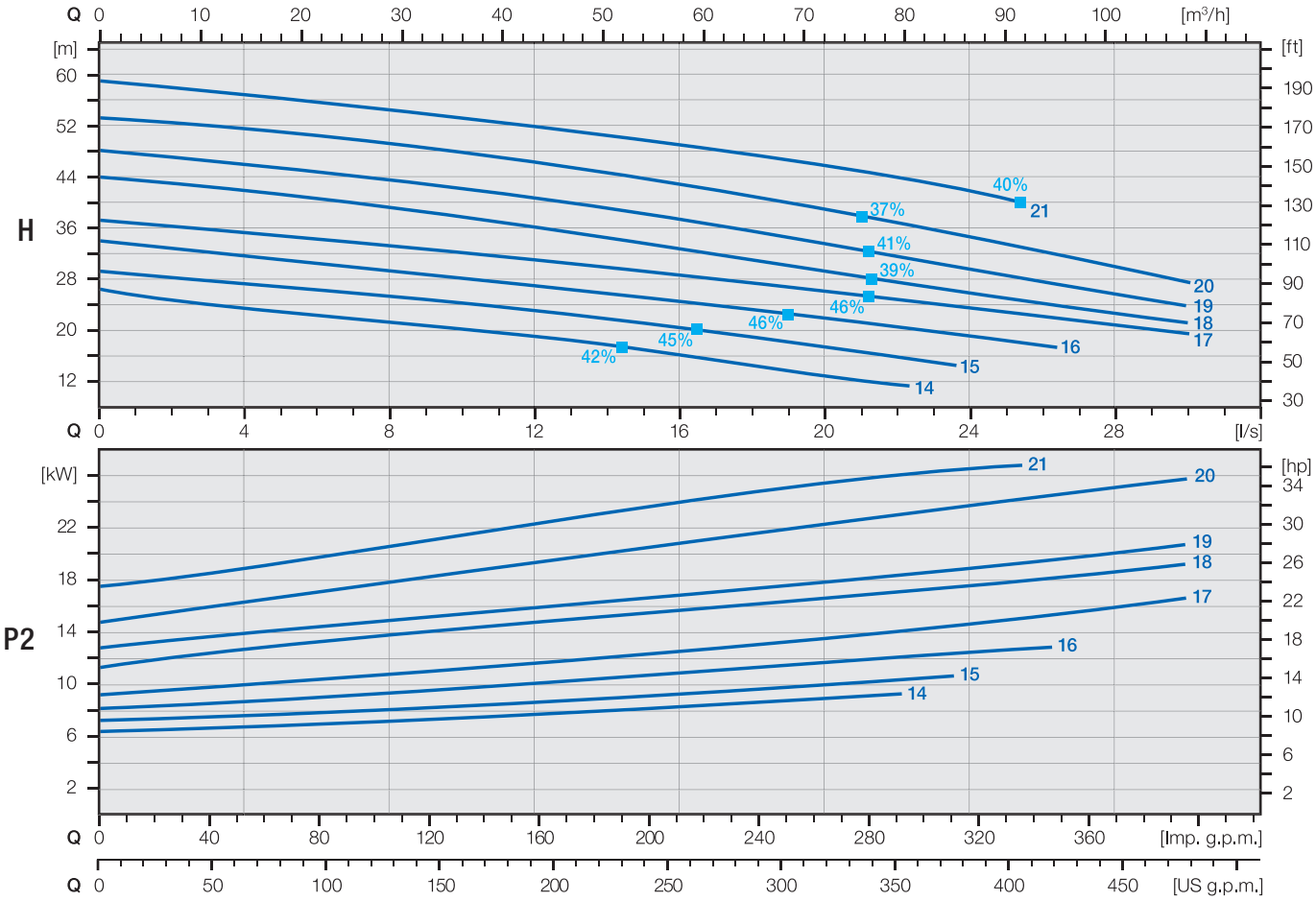
Caratteristiche generali - *General features*

	Nr	Modello - *Type*	P1 Kw	P2 Kw	Volt	Amp	Giri¹ rpm	DN	Ø mm
2 poli - *poles*	9	FGb 80.1,2-2/122.22 ms (A)	1,5	1,2	1 x 230	7	2850	80	80
	9	FGb 80.1,2-2/122.22	1,5	1,2	3 x 400	3,1	2850	80	80
	10	FGb 80.1,85-2/125.16	2,3	1,85	3 x 400	4,4	2850	80	80
	11	FGb 80.2,4-2/136.16	3	2,4	3 x 400	5,5	2850	80	80
	12	FGb 80.4-2/160.10	5	4	3 x 400	8,9	2850	80	80
	13	FGb 80.5,5-2/158.22	7	5,5	3 x 400 Δ	12,5	2850	80	80

Prestazioni - *Performances*

	l/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
H mt		6,3	5,8	5,2	4,2	2,8					
		6,3	5,8	5,2	4,2	2,8					
		9,9	9,4	8,5	7,5	6,3	5,1	3,8	2,6		
		12,6	12,1	11,2	9,8	8,5	7,1	5,6	4,2	2,8	
		17,1	16,4	15,6	14,7	13,8	12,7	11,5	10,2	8,7	7
		20,7	19,6	18,5	17,4	16,3	15,2	14,2	13,1	11,9	10,7

FGb 80 - 2
(da 7,5 a 25 kW)

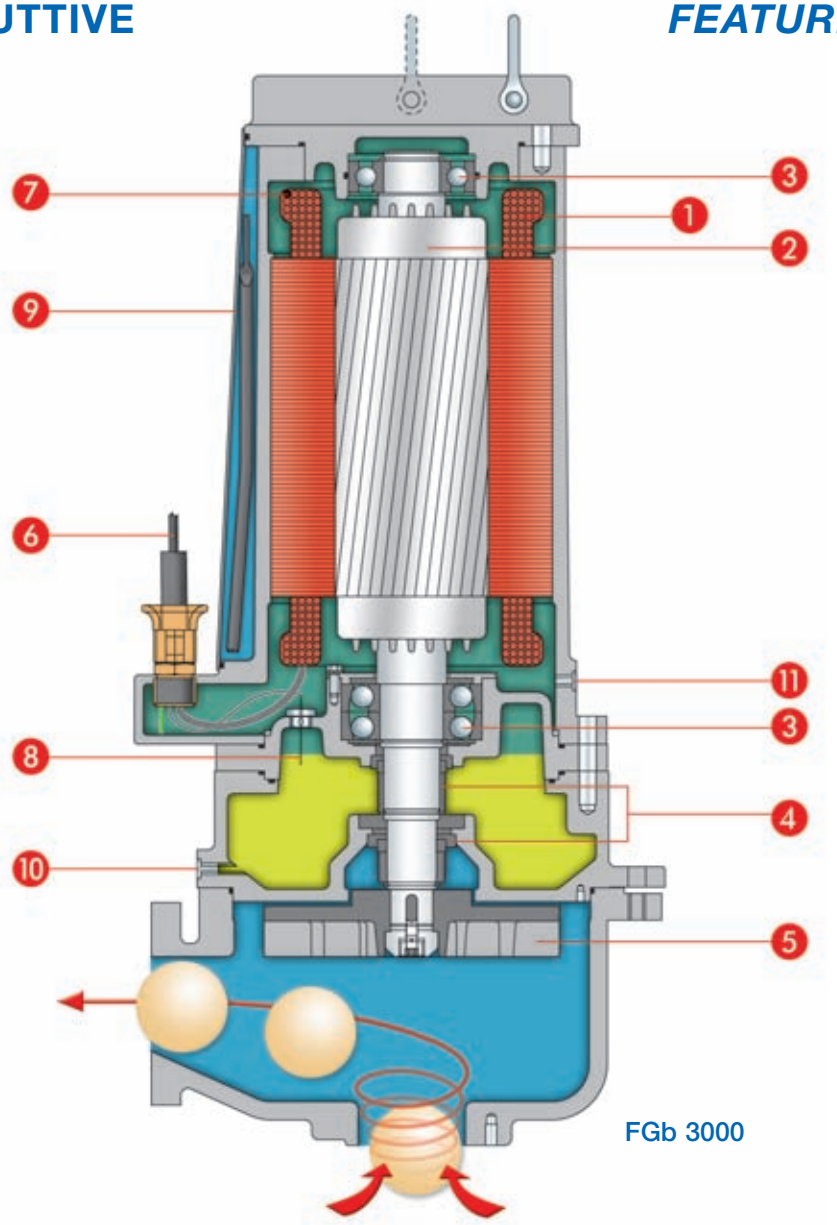


P1 = Max. potenza assorbita *Max. motor input* — P2 = Potenza nominale motore *Motor nominal power* — ■ Max. rendimento idraulico *Max. hydraulic efficiency* — H = Prevalenza *Head* — Q = Portata *Flow* — Ø = Passaggio libero *Free passage*

Caratteristiche generali - *General features*									Prestazioni - *Performances*								
	Nr	Modello - *Type*	P1 Kw	P2 Kw	Volt	Amp	Giri' rpm	DN	Ø mm	l/sec	0	4	8	12	16	20	24	28
										m³/h	0	14,4	28,8	43,2	57,6	72	86,4	100,8
2 poli - *poles*	14	FGb 80.7,5-2 / 155.40	9,3	7,5	3 x 400 Δ	16	2850	80	80		26,5	23	21,5	19	16	13		
	15	FGb 80.9,5-2 / 160.40	10,8	9,5	3 x 400 Δ	19	2850	80	80		29,2	27	25,5	22,8	20,6	17,5		
	16	FGb 80.11-2 / 170.40	13,5	11	3 x 400 Δ	22	2850	80	80		34,1	31	29,8	26,7	25	22	18,5	
	17	FGb 80.18-2 / 180.40	21,8	18	3 x 400 Δ	36	2850	80	80	H mt	37,2	35	33,5	31	28,5	26	23,5	21
	18	FGb 80.19-2 / 215	22	19	3 x 400 Δ	37	2850	80	80		43,9	41,8	39	36,3	33,5	29,3	25,5	22,2
	19	FGb 80.22-2 / 220	25	22	3 x 400 Δ	40	2850	80	80		48	46	43	41,5	37	33,5	29,5	25,5
	20	FGb 80.24-2 / 225	27,5	24	3 x 400 Δ	46	2850	80	80		53,5	51	49,5	46,5	43	39	34,5	30
	21	FGb 80.25-2 / 230	28	25	3 x 400 Δ	46	2850	80	80		59	57	54,5	52	49	46,5	41,5	

CARATTERISTICHE COSTRUTTIVE

TECHNICAL FEATURES



FGb 3000

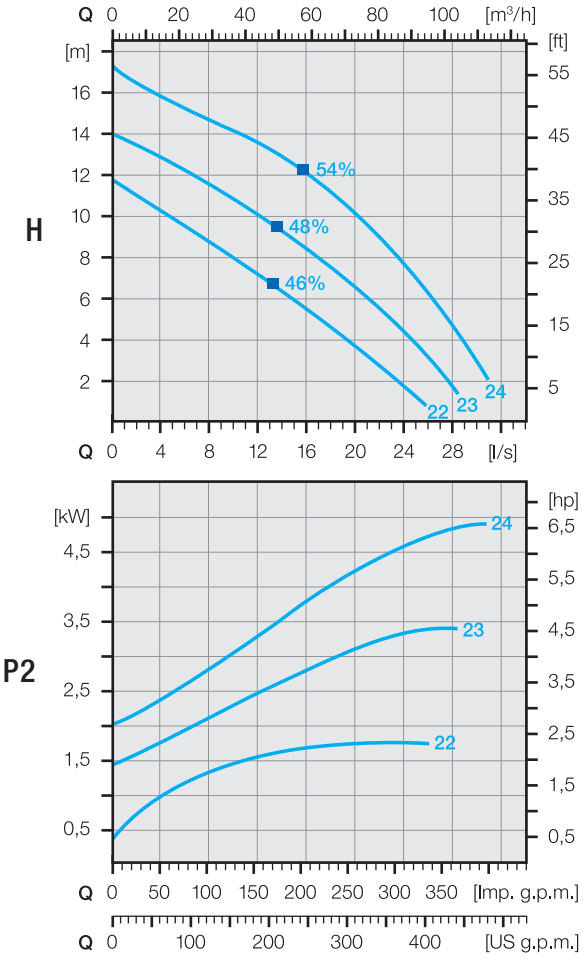
1. Motore completamente sommerso a tenuta stagna
   Classe di isolamento H. Grado di protezione IP 68
   Giri: 1450-2850 al min^{-1}
   Voltaggio: trifase 3x380/415V-50 Hz
   Altri voltaggi e frequenze a richiesta
2. Albero in acciaio AISI 420
3. Cuscinetti sovradimensionati lunga vita (50.000 ore)
4. Doppia tenuta meccanica in camera d'olio
   Lato acqua: carburo di silicio/carburo di silicio
   Lato motore: carburo di silicio/carburo di silicio
5. Girante Vortex in ghisa ad alto rendimento
6. Cavo H07RNF
7. Protezione termica nell'avvolgimento (optional)
8. Sonda camera olio (optional)
9. Camicia di raffreddamento (optional)
10. Ispezione olio
11. Controllo tenuta stagna motore

1. *Motor fully submersible pressure tight electric motor*
   Insulation class H. Protection degree IP68
   Speed: 1450-2850 rpm
   Voltage: three-phase 3x380/415V-50 Hz
   Different voltage and frequency on request
2. *Shaft in stainless steel AISI 420*
3. *Bearings over-dimensioned long-life (50.000 hours)*
4. *Double mechanical seal in oil chamber*
   Water side: silicon carbide/silicon carbide
   Motor side: silicon carbide/silicon carbide
5. *Impeller high efficiency cast iron Vortex*
6. *Cable H07RNF*
7. *Thermal protection embedded in winding (optional)*
8. *Oil chamber probe (optional)*
9. *Cooling jacket (optional)*
10. *Oil inspection plug*
11. *Hole for the motor watertightness control*

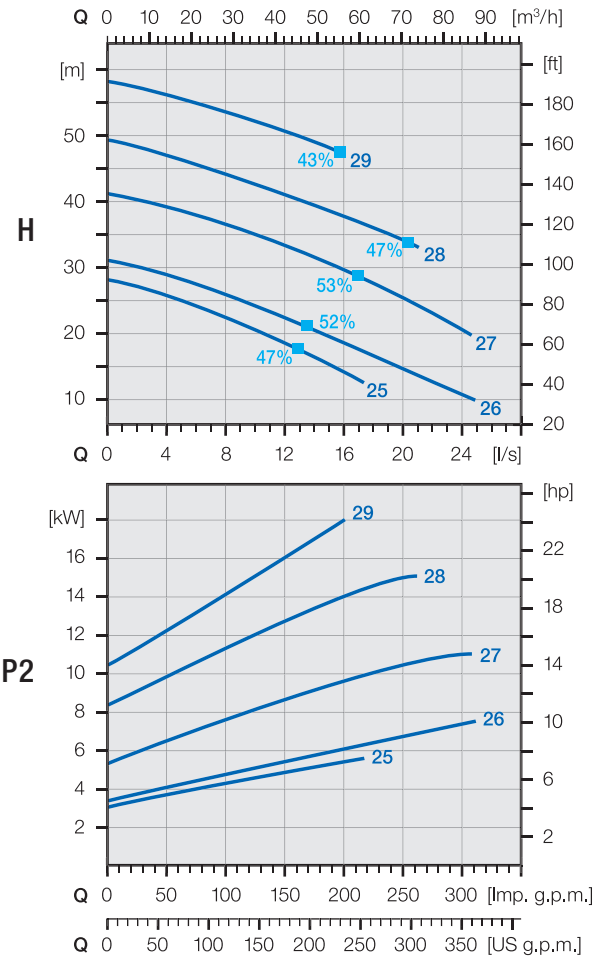
CURVE DI **PRESTAZIONE**

PERFORMANCE ***CURVES***

FGb 3000 - 4



FGb 3000 - 2

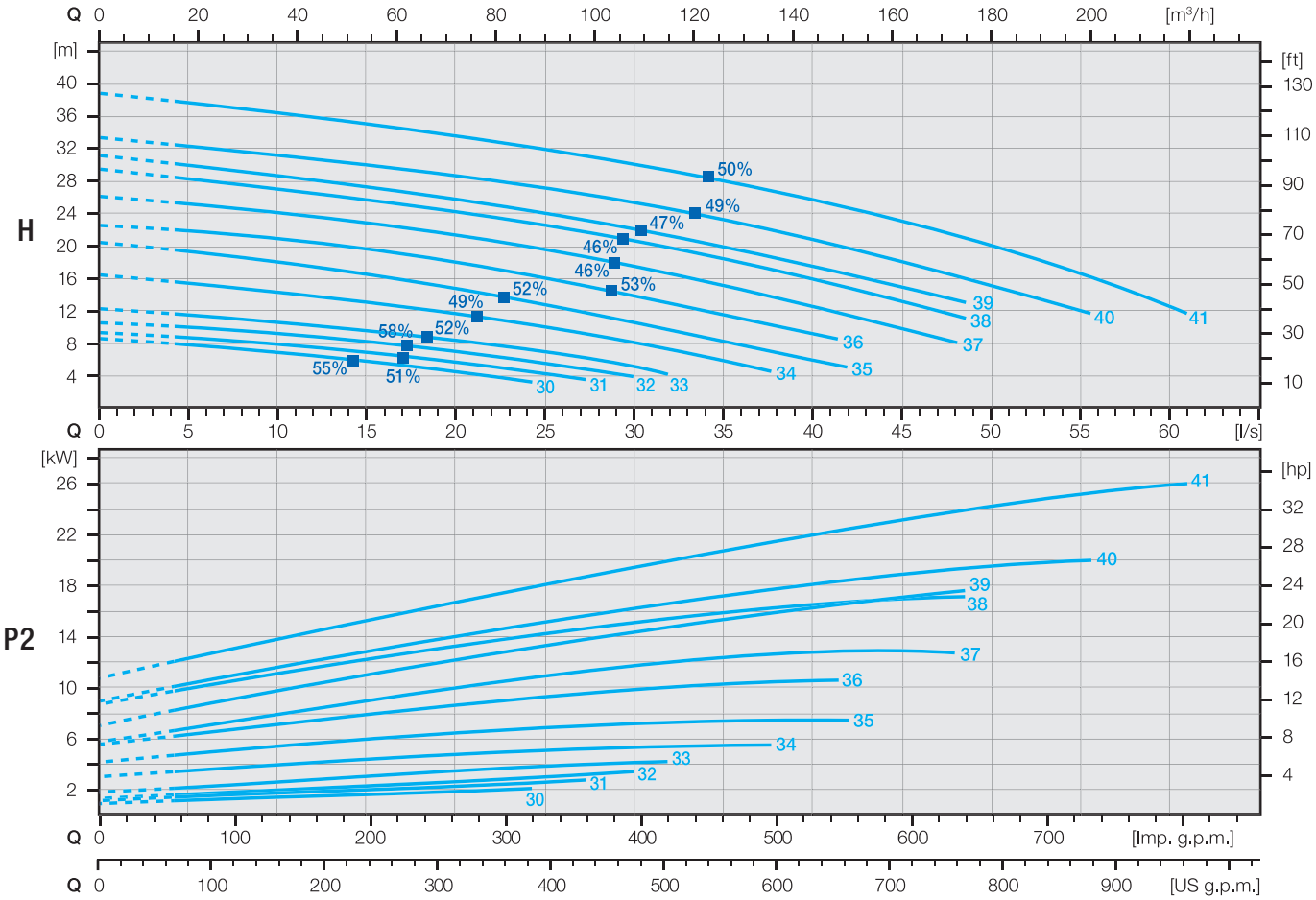


P1 = Max. potenza assorbita *Max. motor input* — P2 = Potenza nominale motore *Motor nominal power* — ■ Max. rendimento idraulico *Max. hydraulic efficiency* — H = Prevalenza *Head* — Q = Portata *Flow* — Ø = Passaggio libero *Free passage*

	Nr	Modello - *Type*	P1 Kw	P2 Kw	Volt	Amp	Giri¹ rpm	DN	Ø mm	l/sec	0	4	8	12	16	20	24	28
										m³/h	0	14,4	28,8	43,2	57,6	72	86,4	100,8
4 poli - *poles*	22	FGb 3031.2,2-4 / 195.45	3	2,2	3 x 400	5,5	1450	67	67		11,9	10,3	8,8	7,4	5,7	3,7	1,7	
	23	FGb 3149.3,5-4 / 210.45	4,5	3,5	3 x 400	8	1450	67	67		14	12,8	11,6	10,2	8,6	6,6	4,4	1,7
	24	FGb 3169.5-4 / 235.45	6,2	5	3 x 400	11	1450	67	67		17,3	16	14,9	13,7	12,2	10,2	7,7	4,6
2 poli - *poles*	25	FGb 3077.5,5-2 / 150.35	8	5,5	3 x 400 Δ	12	2850	67	67	H mt	27,9	25,6	22,4	18,4	14,1			
	26	FGb 3107.7,5-2 / 155.40	9,5	7,5	3 x 400 Δ	16	2850	67	67		31	28,9	26	22,4	18,5	14,5	10,6	
	27	FGb 3151.11-2 / 180.35	12,5	11	3 x 400 Δ	22	2850	67	67		41,2	39,1	36,6	33,6	29,8	25,3	20,4	
	28	FGb 3201.15-2 / 205.35	16,5	15	3 x 400 Δ	30	2850	67	67		49,3	47,2	44,4	41,3	37,8	34,1		
	29	FGb 3251.18,5-2 / 220.40	20,8	18	3 x 400 Δ	32	2850	67	67		58,2	56,3	53,8	50,7	47,2			

Caratteristiche generali - *General features* | Prestazioni - *Performances*

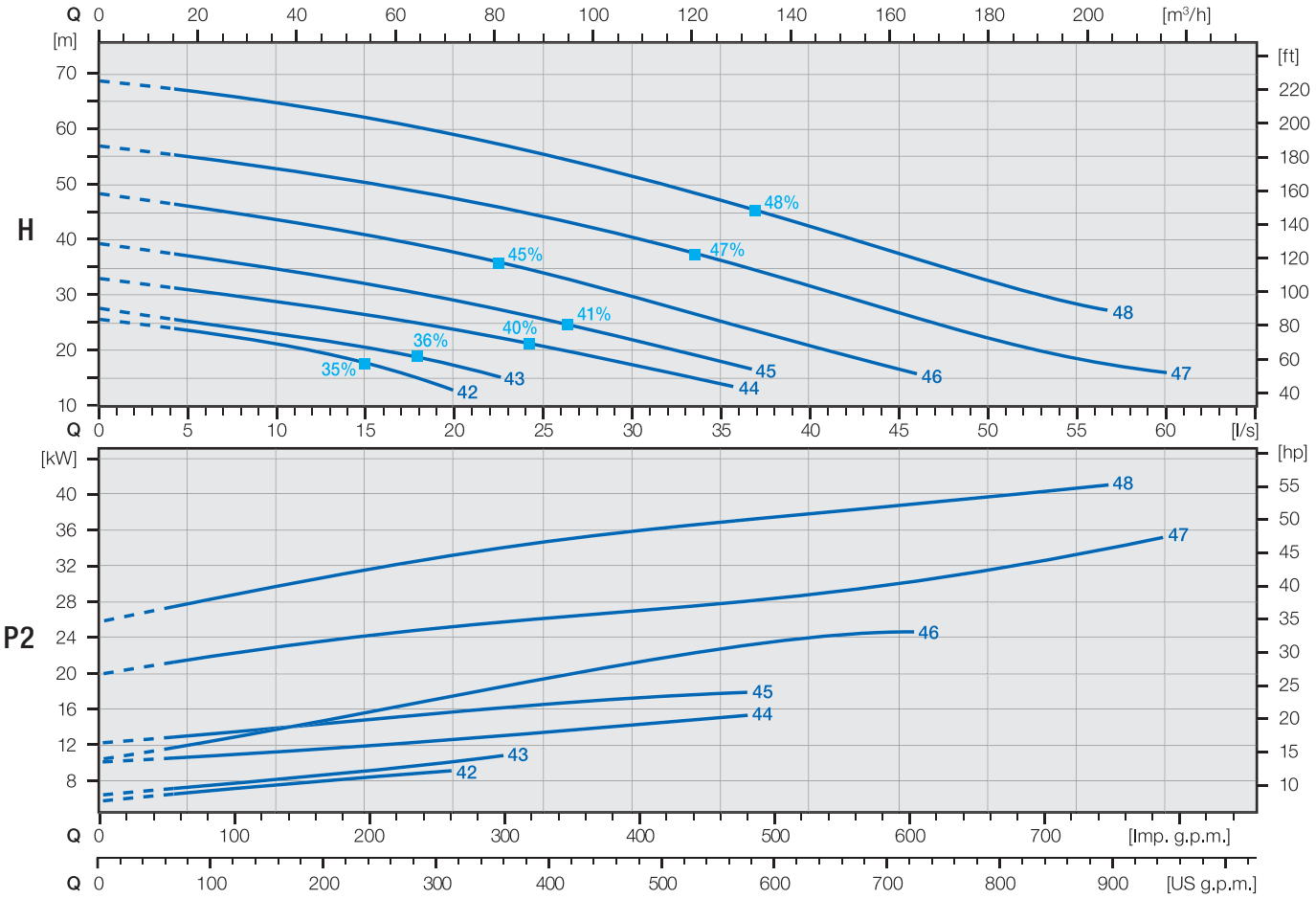
FGb 2000 - 4
FGb 4000 - 4



P1 = Max. potenza assorbita *Max. motor input*
P2 = Potenza nominale motore *Motor nominal power*
■ Max. rendimento idraulico *Max. hydraulic efficiency*
H = Prevalenza *Head*
Q = Portata *Flow*
Ø = Passaggio libero *Free passage*

Caratteristiche generali - *General features*										Prestazioni - *Performances*											
	Nr	Modello - *Type*	P1 Kw	P2 Kw	Volt	Amp	Giri¹ rpm	DN	Ø mm	l/sec	5	15	25	30	35	40	45	50	55	60
										m³/h	18	54	90	108	126	144	162	180	198	216
4 poli - *poles*	30	FGa 2130.2,2-4 / 150.34	3	2,2	3 x 400	5,5	1450	100	80		7,7	5,7								
	31	FGa 2140.3,5-4 / 155.34	4	3,5	3 x 400	7,5	1450	100	80		8,7	6,8	4,3							
	32	FGa 2156.4-4 / 160.34	4,4	4	3 x 400	8	1450	100	80		9,8	8,3	5,4	3,8						
	33	FGa 2176.5,5-4 / 180.34	6	5,5	3 x 400 Δ	11	1450	100	80		11,5	9,6	6,9	5,1						
	34	FGb 4082.6-4 / 235.62	7	6	3 x 400 Δ	13,8	1450	100	100		15,5	13,2	10,1	8,1	5,9					
	35	FGb 4107.7,5-4 / 265.55	9	7,5	3 x 400 Δ	16	1450	100	100	H mt	19,4	16,5	12,6	10,5	8,4	6				
	36	FGb 4151.11-4 / 280.55	12,5	11	3 x 400 Δ	22	1450	100	100		22	19,6	16	13,7	11,4	9,2				
	37	FGb 4190.14-4 / 290.55	17	14	3 x 400 Δ	30	1450	100	100		25,5	22,9	19,6	17,5	15	12,6	10			
	38	FGb 4230.17-4 / 308.55	20,8	17	3 x 400 Δ	35	1450	100	100		28,3	25,7	22,5	20,6	18,5	16,2	13,4			
	39	FGb 4231.17-4 / 315.55	21,5	17	3 x 400 Δ	38	1450	100	100		30,1	27,3	24,1	22,4	20	17,6	15,1			
	40	FGb 4301.22-4 / 315.55	24,5	22	3 x 400 Δ	45	1450	100	100		32,2	30	27,4	25,5	23,2	20,7	18	15	12	
	41	FGb 4350.26-4 / 333.55	30	26	3 x 400 Δ	50	1450	100	100		37,7	35	32,1	30,2	28,2	25,8	23,2	20,2	16,5	12,5

FGb 4000 - 2



P1 = Max. potenza assorbita *Max. motor input*
P2 = Potenza nominale motore *Motor nominal power*
■ Max. rendimento idraulico *Max. hydraulic efficiency*
H = Prevalenza *Head*
Q = Portata *Flow*
Ø = Passaggio libero *Free passage*

Caratteristiche generali - *General features*										Prestazioni - *Performances*											
	Nr	Modello - *Type*	P1 Kw	P2 Kw	Volt	Amp	Giri¹ rpm	DN	Ø mm	l/sec	5	15	25	30	35	40	45	50	55	60
										m³/h	18	54	90	108	126	144	162	180	198	216
2 poli - *poles*	42	FGb 4212.9-2 / 155.60	10,5	9	3 x 400 Δ	18	2850	100	85		23,5	17,7								
	43	FGb 4151.11-2 / 160.60	13	11	3 x 400 Δ	22	2850	100	85		25	20,8								
	44	FGb 4201.15-2 / 180.40	18,5	15	3 x 400 Δ	30	2850	100	100		31	26,6	20,8	17,6	14					
	45	FGb 4251.18-2 / 190.40	21	18	3 x 400 Δ	38	2850	100	100	H mt	37,2	32,2	25,9	22	18,2					
	46	FGb 4340.25-2 / 200.55	29	25	3 x 400 Δ	44	2850	100	90		46,7	41	33,7	29,9	25,6	21	16,7			
	47	FGb 4501.37-2 / 220.55	40	37	3 x 400 Δ	67	2850	100	90		54,6	50	44,2	40,3	36	31,2	26,6	22	18,6	16,5
	48	FGb 4651.48-2 / 240.55	52	48	3 x 400 Δ	80	2850	100	90		66,8	62,3	55,7	51,5	47	42,5	37,5	33	28,8	

Dimensioni di installazione mm - *Installation sizes mm*

Nr	Modello - *Type*	A max	A1	A2	A3 max	B	B1	B2	C	C1	C2	D	D1	E*	F	F1	F2	F3	Ø G	H	J	K1	K2	K3	L	M
1	FGa 80.1,3-4 / 131.34	540	325	168		385	230		310	155		795		34	84		134				160					
2	FGa 80.1,7-4 / 144.34	540	325	168		385	230		310	155		795		34	84		134				160					
3	FGa 80.2,2-4 / 154.34	540	325	168		385	230		310	155		795		34	84		134				160					
4	FGa 80.3-4 / 160.34	560	325	168		385	230		310	155		795		34	84		134				160					
5	FGa 80.3,5-4 / 170.34	560	325	168		385	230		310	155		795		34	84		134				160					
6	FGa 80.4,2-4 / 180.34	560	325	168		385	230		310	155		795		34	84		134				160					
7	FGa 80.5-4 / 190.30	610	325	168		385	230		310	155		795		34	84		134				160					
8	FGa 80.5,5-4 / 196.30	610	325	168		385	230		310	155		795		34	84		134				160					
9	FGb 80.1,2-2/122.22 ms (A)	490	325	168		280	180		212	106		690		34	84		134				160					
9	FGb 80.1,2-2/122.22	490	325	168		280	180		212	106		690		34	84		134				160					
10	FGb 80.1,85-2/125.16	540	325	168		280	180		212	108		690		34	84		134				160					
11	FGb 80.2,4-2/136.16	540	325	168		280	180		212	108		690		34	84		134				160					
12	FGb 80.4-2/160.10	560	325	168		385	230		310	155		795		34	84		134				160					
13	FGb 80.5,5-2/158.22	610	325	168		385	230		310	155		795		34	84		134				160					
14	FGb 80.7,5-2-2 / 155.40	643	325	168	775	365	220		312	147		780		71		125	220		395		160	148	357	435	195	400
15	FGb 80.9,5-2 / 160.40	690	325	168	775	365	220		312	147		780		71		125	220		395		160	148	357	435	195	400
16	FGb 80.11-2 / 170.40	690	325	168	775	365	220		312	147		780		71		125	220		395		160	148	357	435	195	400
17	FGb 80.18-2 / 180.40	765	325	168	945	365	220		312	147		780		71		125	220		395		160	148	357	435	195	400
18	FGb 80.19-2 / 215	945	325	168	945	410	252		316	158		820		90		125	220		395		160	148	357	435	195	400
19	FGb 80.22-2 / 220	945	325	168	945	410	252		316	158		820		90		125	220		395		160	148	357	435	195	400
20	FGb 80.24-2 / 225	1035	325	168	1035	410	252		316	158		820		90		125	220		395		160	148	357	435	195	400
21	FGb 80.25-2 / 230	1035	325	168	1035	410	252		316	158		820		90		125	220		395		160	148	357	435	195	400
22	FGb 3031.2,2-4 / 195.45	555	300	160		365	185	335	302	151	80	735	355	60		120	220	430		565	134					
23	FGb 3149.3,5-4 / 210.45	580	300	160		365	185	335	302	151	80	735	355	60		120	220	430		565	134					
24	FGb 3169.5-4 / 235.45	640	325	168		365	185	335	302	151	80	800	430	68		120	220	430		565	160					
25	FGb 3077.5,5-2 / 150.35	640	325	168		365	185	335	302	151	80	800	430	68		120	220	430		565	160					
26	FGb 3107.7,5-2 / 155.40	640	325	168		365	185	335	302	151	80	800	430	68		120	220	430		565	160					
27	FGb 3151.11-2 / 180.35	680	325	168		365	185	335	302	151	80	800	430	68		120	220	430		565	160					
28	FGb 3201.15-2 / 205.35	750	325	168		365	185	335	302	151	80	800	430	68		120	220	430		565	160					
29	FGb 3251.18,5-2 / 220.40	750	325	168		365	185	335	302	151	80	800	430	68		120	220	430		565	160					
30	FGa 2130.2,2-4 150/34	545	400	200		308	180	326	285	130	100	850	515	70	75		135	345		510	224					
31	FGa 2140.3,5-4 155/34	545	400	200		308	180	326	285	130	100	850	515	70	75		135	345		510	224					
32	FGa 2141.3,5-4 160/34	545	400	200		308	180	326	285	130	100	850	515	70	75		135	345		510	224					
33	FGa 2156.5,5-4 180/34	545	400	200		308	180	326	285	130	100	850	515	70	75		135	345		510	224					
34	FGb 4082.6-4 / 235.62	645	400	200		405	228	375	385	178	135	955	515	97			224	434		605	224					
35	FGb 4107.7,5-4 / 265.55	645	400	200		405	228	375	385	178	135	955	515	97			224	434		605	224					
36	FGb 4151.11-4 / 280.55	720	400	200		405	228	375	385	178	135	955	515	97			224	434		605	224					
37	FGb 4190.14-4 / 290.55	810	400	200		550	290	440	502	251	190	1120	515	105			215	425		750	224					
38	FGb 4230.17-4 / 308.55	810	400	200		550	290	440	502	251	190	1120	515	105			215	425		750	224					
39	FGb 4231.17-4 / 315.55	810	400	200		550	290	440	502	251	190	1120	515	105			215	425		750	224					
40	FGb 4301.22-4 / 315.55	875	400	200		550	290	440	502	251	190	1120	515	105			215	425		750	224					
41	FGb 4350.26-4 / 333.55	875	400	200		550	290	440	502	251	190	1120	515	105			215	425		750	224					
42	FGb 4212.9-2 / 155.60	710	400	200		405	228	375	385	178	135	955	515	97			224	434		605	224					
43	FGb 4151.11-2 / 160.60	710	400	200		405	228	375	385	178	135	955	515	97			224	434		605	224					
44	FGb 4201.15-2 / 180.40	780	400	200		405	228	375	385	178	135	955	515	97			224	434		605	224					
45	FGb 4251.18-2 / 190.40	780	400	200		405	228	375	385	178	135	955	515	97			224	434		605	224					
46	FGb 4340.25-2 / 200.55	840	400	200		425	228	375	410	205	125	970	515	97			224	424		615	224					
47	FGb 4501.37-2 / 220.55	970	400	200		425	228	375	410	205	125	970	515	97			224	424		615	224					
48	FGb 4651.48-2 / 240.55	1030	400	200		425	228	375	410	205	125	970	515	97			224	424		615	224					

V = Piede di accoppiamento - *Low level coupling*

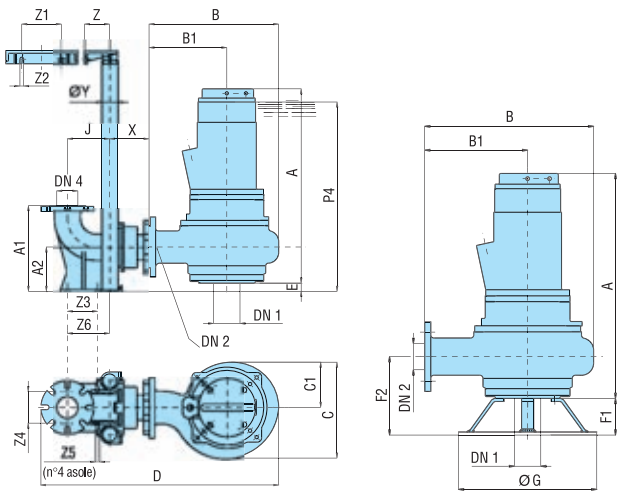
* In tutti i casi in cui la quota E è inferiore alla bocca di mandata relativa, è necessario alzare il piede.
When the value E is lower than the value DN3, it is necessary to lift the low level coupling.

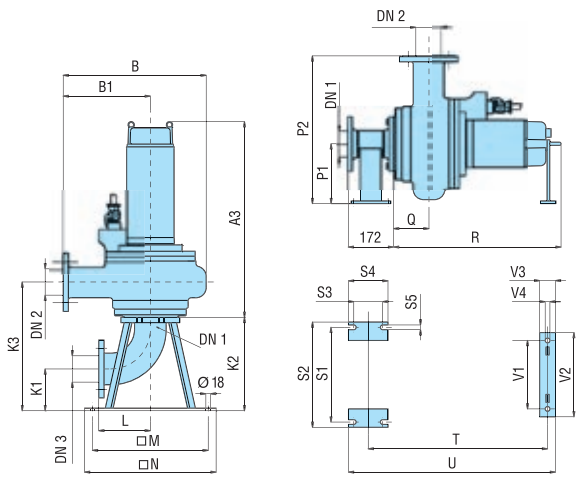
N	P1	P2	P4	Q	R max	S1	S2	S3	S4	S5	T max	U max	V1	V2	V3	V4	X	Ø Y	Z	Z1	Z2	Z3	Z4	Z5	Z6	DN1	DN2	DN3	DN4	V	KG
			560														150	60,3	95	150	14	120	120	15	175	80	80		80	80N	62
			560														150	60,3	95	150	14	120	120	15	175	80	80		80	80N	62
			560														150	60,3	95	150	14	120	120	15	175	80	80		80	80N	62
			580														150	60,3	95	150	14	120	120	15	175	80	80		80	80N	68
			580														150	60,3	95	150	14	120	120	15	175	80	80		80	80N	68
			580														150	60,3	95	150	14	120	120	15	175	80	80		80	80N	68
			630														150	60,3	95	150	14	120	120	15	175	80	80		80	80N	70
			630														150	60,3	95	150	14	120	120	15	175	80	80		80	80N	70
			510														150	60,3	95	150	14	120	120	15	175	80	80		80	80	25
			510														150	60,3	95	150	14	120	120	15	175	80	80		80	80	25
			560														150	60,3	95	150	14	120	120	15	175	80	80		80	80	62
			560														150	60,3	95	150	14	120	120	15	175	80	80		80	80	62
			580														150	60,3	95	150	14	120	120	15	175	80	80		80	80	68
			630														150	60,3	95	150	14	120	120	15	175	80	80		80	80	70
440	200	420	700	78	740	360	400	110	150	18	738	843	260	320	60	18	150	60,3	95	150	14	120	120	15	175	100	80	100	80	80N	118
440	200	420	745	78	740	360	400	110	150	18	738	843	260	320	60	18	150	60,3	95	150	14	120	120	15	175	100	80	100	80	80N	147
440	200	420	745	78	740	360	400	110	150	18	738	843	260	320	60	18	150	60,3	95	150	14	120	120	15	175	100	80	100	80	80N	148
440	200	450	820	78	1050	360	400	110	150	18	1075	1180	310	370	60	18	150	60,3	95	150	14	120	120	15	175	100	80	100	80	80N	170
440	200	450	960	78	1050	360	400	110	150	18	1075	1180	310	370	60	18	150	60,3	95	150	14	120	120	15	175	100	80	100	80	80N	176
440	200	450	960	78	1050	360	400	110	150	18	1075	1180	310	370	60	18	150	60,3	95	150	14	120	120	15	175	100	80	100	80	80N	180
440	200	450	1050	78	1050	360	400	110	150	18	1075	1180	310	370	60	18	150	60,3	95	150	14	120	120	15	175	100	80	100	80	80N	206
440	200	450	1050	78	1050	360	400	110	150	18	1075	1180	310	370	60	18	150	60,3	95	150	14	120	120	15	175	100	80	100	80	80N	208
			540														130	42,4	84	100	14	90	100	15	140			65	75	65	73
			565														130	42,4	84	100	14	90	100	15	140			65	75	65	77
			625														176	60,5	95	150	14	120	120	15	175			80	75	80	105
			625														176	60,5	95	150	14	120	120	15	175			80	75	80	99
			625														176	60,5	95	150	14	120	120	15	175			80	75	80	112
			665														176	60,5	95	150	14	120	120	15	175			80	75	80	130
			735														176	60,5	95	150	14	120	120	15	175			80	75	80	158
			735														176	60,5	95	150	14	120	120	15	175			80	75	80	162
			605														140	60,3	105	150	14	150	150	18	230			100	100	100	52
			605														140	60,3	105	150	14	150	150	18	230			100	100	100	52
			605														140	60,3	105	150	14	150	150	18	230			100	100	100	55
			605														140	60,3	105	150	14	150	150	18	230			100	100	100	59
			725														180	60,3	105	150	14	150	150	18	230			100	100	100	118
			725														180	60,3	105	150	14	150	150	18	230			100	100	100	126
			800														180	60,3	105	150	14	150	150	18	230			100	100	100	145
			900														180	60,3	105	150	14	150	150	18	230			100	100	100	186
			900														180	60,3	105	150	14	150	150	18	230			100	100	100	190
			900														180	60,3	105	150	14	150	150	18	230			100	100	100	194
			965														180	60,3	105	150	14	150	150	18	230			100	100	100	230
			965														180	60,3	105	150	14	150	150	18	230			100	100	100	251
			790														180	60,3	105	150	14	150	150	18	230			100	100	100	132
			790														180	60,3	105	150	14	150	150	18	230			100	100	100	135
			860														180	60,3	105	150	14	150	150	18	230			100	100	100	165
			860														180	60,3	105	150	14	150	150	18	230			100	100	100	215
			922														180	60,3	105	150	14	150	150	18	230			100	100	100	240
			900														180	60,3	105	150	14	150	150	18	230			100	100	100	330
			960														180	60,3	105	150	14	150	150	18	230			100	100	100	368

DISEGNI DI **INGOMBRO**

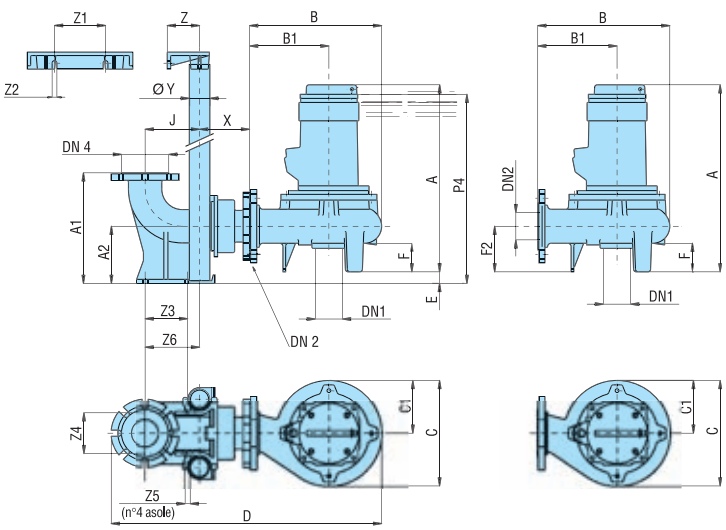
DIMENSION ***DRAWINGS***

FGb 80 - 2
(da 7,5 a 25 kW)

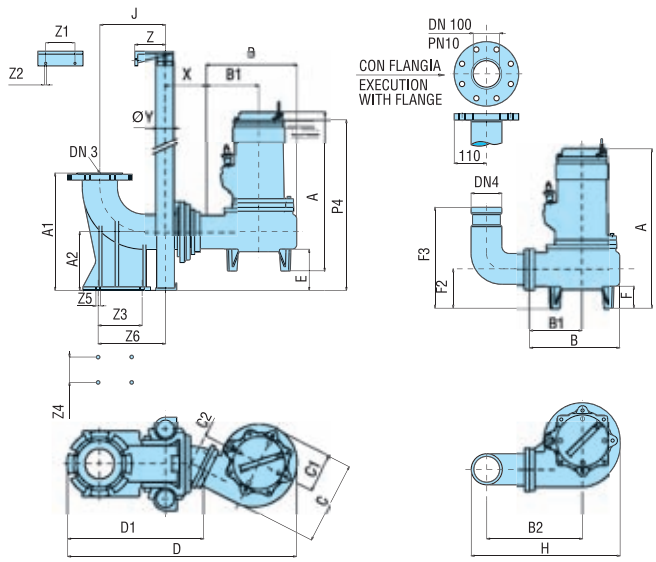




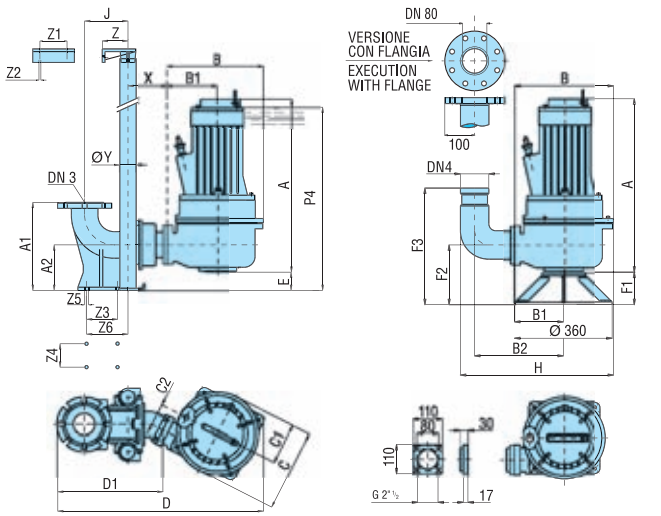
FGa 80 - 4
FGa 80 - 2 (fino a 5,5 kW)



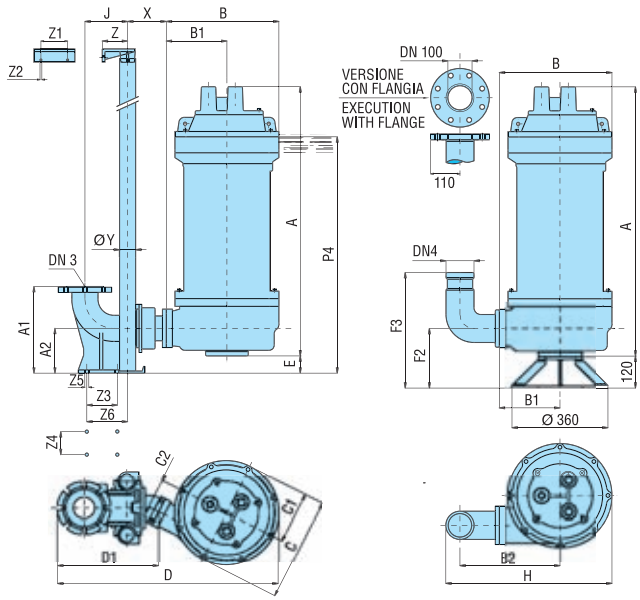
FGa 2000



FGb 3000



FGb 4000





Riserva di modifiche senza preavviso - *Subject to change without notice*

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