

ELECTROPOMPE SUBMERSIBILE DS – DSF DIN FONTA CU ROTOR SEMI-DESCHIS PENTRU APE CURATE SI APA DE PLOAIE



APLICATII

- Evacuarea apelor din bazine
- Pomparea apei de ploaie
- Pomparea apelor curate si a apelor cu particule mici in suspensie
- Evacuarea din rezervoare

CARACTERISTICI TEHNICE

- Rotor semi-deschis cu eficienta ridicata
- Filtru fara infundare
- Inel de etansare la partea de sus si de jos (DS)

DATE TEHNICE

- Temperatura maxima a lichidului: 40 °C
- Dimensiunea maxima a solidelor: 5 mm (50DS)
 - 6 mm (65DS) (40DSF 1.1, 1.8 kW)
 - 7 mm (80DS) (40DSF 6 kW)
 - 8 mm (100DS)
 - 10 mm (65DSF)
- Lungimea maxima a fibrelor: 50 mm (toate modelele DS)
- Motor submersibil etans
- Clasa de izolatie F (DS)
- Clasa de izolatie H (DSF)
- Grad de protectie IP68
- Curent: trifazat 380-415 $\pm$ 10%, 50 Hz (DS)
 - monofazat 230 $\pm$ 10%, 50 Hz (DSF)
 - trifazat 400/690 $\pm$ 10%, 50 Hz (DSF)
- Flanse: DN50, DN65, DN80, DN100 (DS)
- Flanse: DN40, DN65 (DSF)
- Putere pana la 7.5 kW

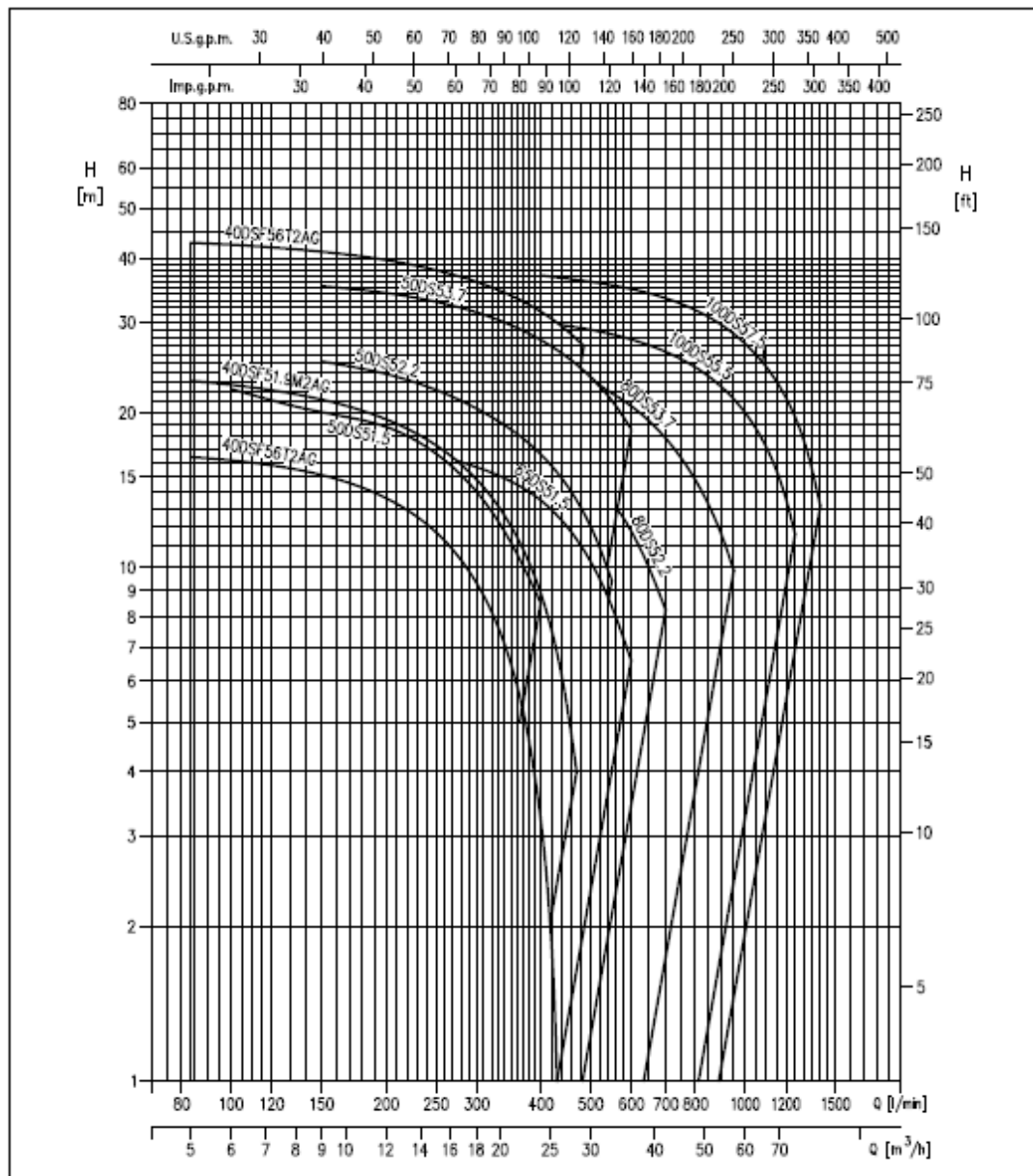
MATERIALE

- Corp pompa, rotor semi-deschis, cot (curbat) din fonta
- Ax din AISI 403 (DS) si AISI 420B (DSF)
- Etansare mecanica: SiC/SiC/NBR (partea rotorului)
Carbon/Ceramica/NBR (partea motorului)
(6 kW si peste pentru DSF)

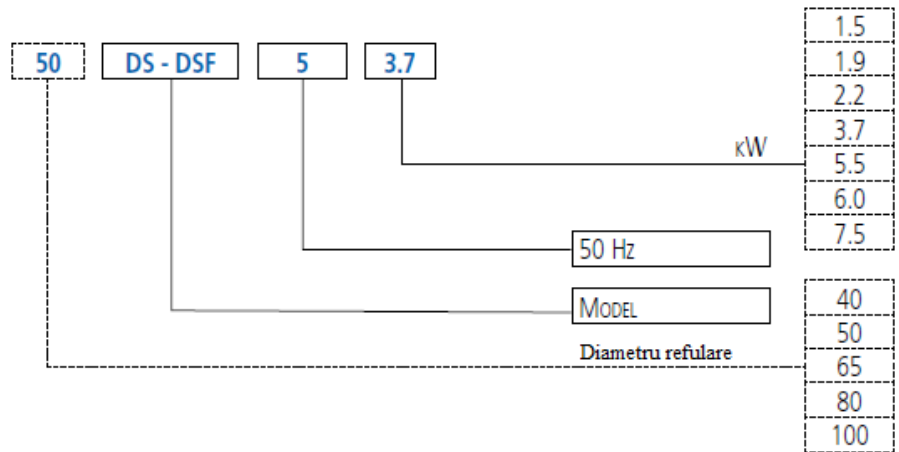
ACCESORII (la cerere)

Pentru accesorii, vezi pagina 151.

CURBE DE PERFORMANTA (per. ISO 9906 Anexa A)



COD DE IDENTIFICARE POMPA

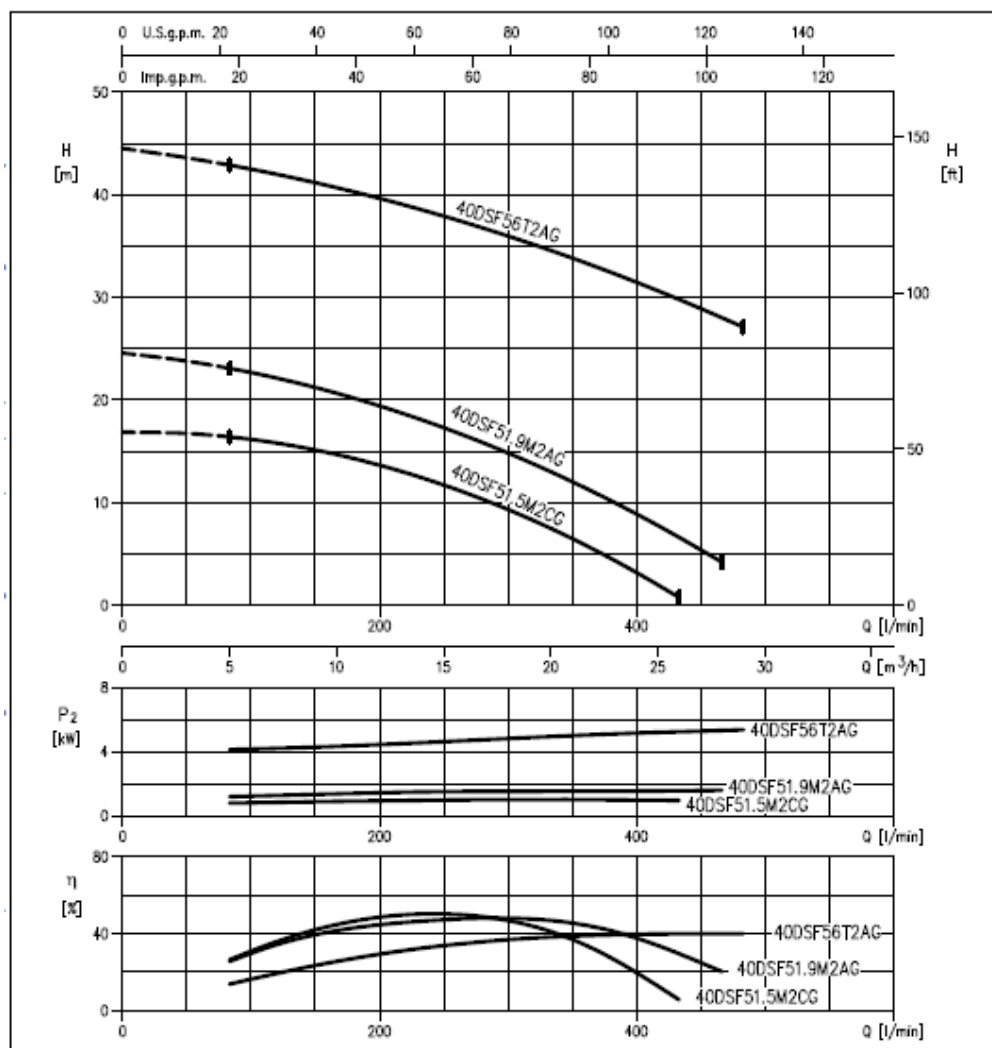


TABEL PERFORMANTA

Model	P ₂		Q= Debit																									
	[HP]	[kW]	l/min 83	100	150	200	250	300	400	433	450	467	473	483	500	550	580	600	700	800	950	1000	1170	1200	1250	1400		
			m ³ /h 5	6	9	12	15	18	24	26	27	28	28.4	29	30	33	34.8	36	42	48	57	60	70.2	72	75	84		
40DSF51.5M2CG	2	1.5	16.4	16.2	15.1	13.6	11.7	9.3	3.2	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
40DSF51.9M2AG	2.5	1.9	23.1	22.7	21.2	19.4	17.3	14.8	8.9	6.6	5.4	4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
40DSF56T2AG	8	6.0	43	42.5	41	39.6	37.9	36	31.5	30	28.9	28	27.7	27.1	-	-	-	-	-	-	-	-	-	-	-	-		
50DS51.5	2	1.5	-	22.3	20.7	18.8	16.5	14	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
50DS52.2	3	2.2	-	-	25.2	23.7	22.1	20.4	16.6	15.2	14.4	13.6	13.3	12.9	12	9.4	-	-	-	-	-	-	-	-	-	-		
50DS53.7	5	3.7	-	-	35.3	34.2	32.9	31.4	27.7	26.4	25.7	25.0	24.6	24.2	23.5	21.1	19.5	18.6	-	-	-	-	-	-	-	-		
65DS51.5	2	1.5	-	-	17.5	17.1	16.5	15.7	13.5	12.5	12	11	11.2	10.9	10.3	8.5	7.3	6.6	-	-	-	-	-	-	-	-		
80DS52.2	3	2.2	-	-	-	20.8	20.2	19.4	17.6	16.8	16.4	15.9	15.8	15.5	15	13.4	12.5	11.8	8.3	-	-	-	-	-	-	-		
80DS53.7	5	3.7	-	-	-	-	26.3	25.8	24.6	24.0	23.7	23.5	23.3	23.1	22.8	21.8	21.2	20.6	17.8	14.8	9.9	-	-	-	-	-		
100DS55.5	7.5	5.5	-	-	-	-	-	30.7	30	30	29.5	29.4	29.3	29.2	29	28.4	28	27.8	26.3	24.5	21.3	20.0	14.8	13.6	11.6	-		
100DS57.5	10	7.5	-	-	-	-	-	-	37	37	36.6	36.4	36.3	36.2	36	35.5	35.1	34.8	33.4	31.7	28.5	27.3	22.5	21.4	19.7	13.2		

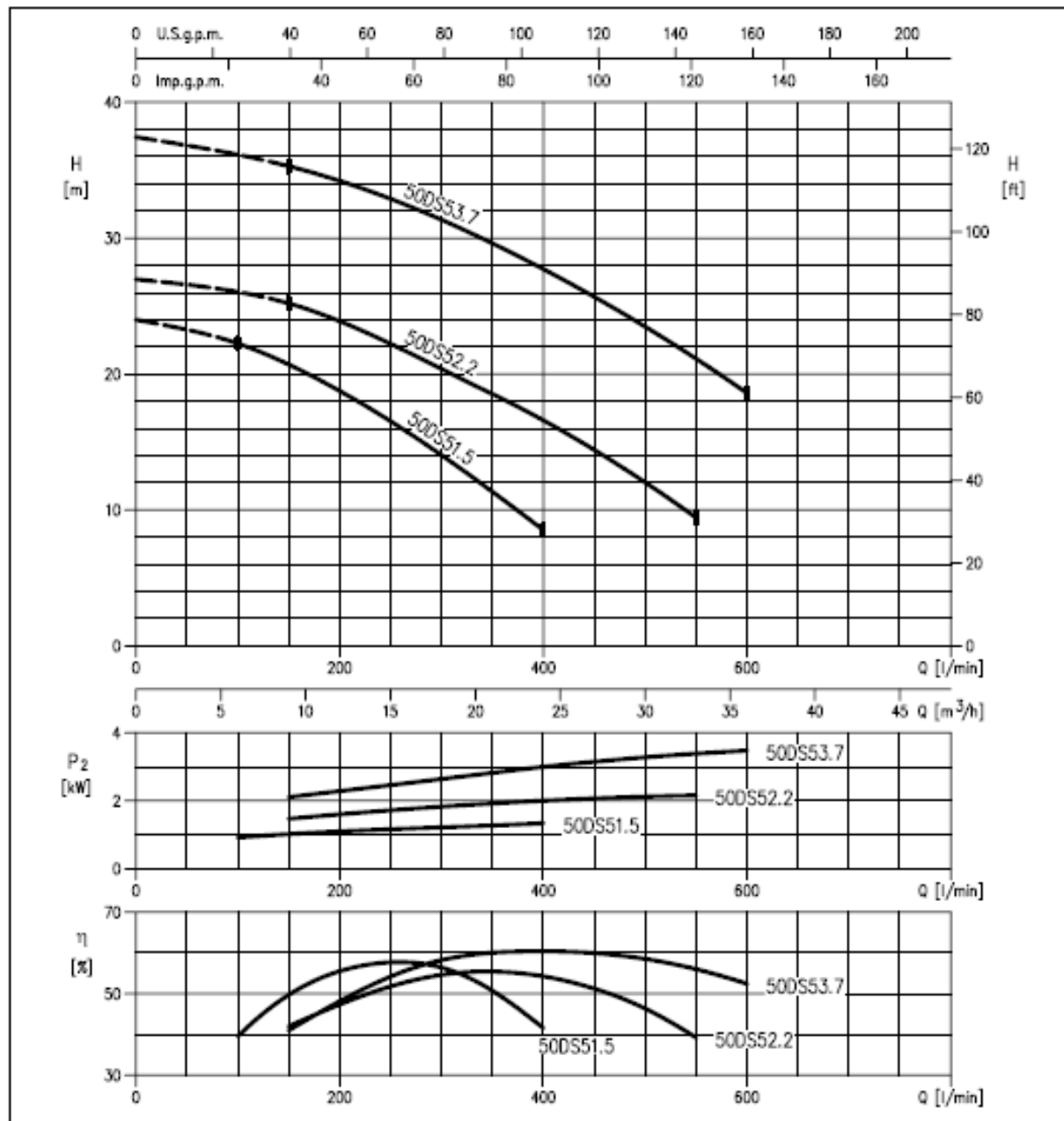
CURBE DE PERFORMANTA (per. ISO 9906 Anexa A)

- seria 40DSF51.5M2CG (1.5 kW)
- seria 40DSF51.9M2AG (1.9 kW)
- seria 40DSF56T2AG (6.0 kW)



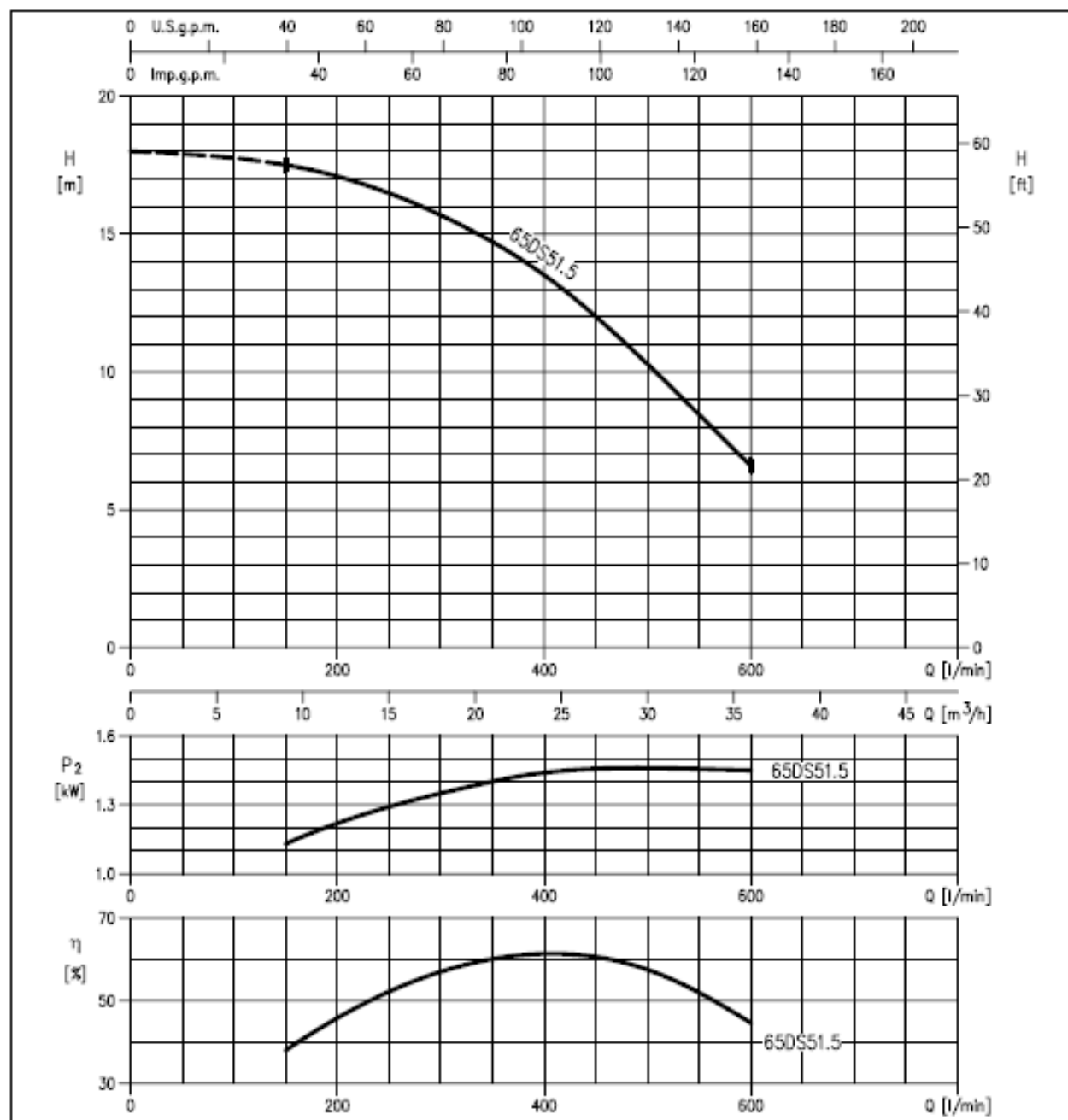
CURBE DE PERFORMANTA (per. ISO 9906 Anexa A)

- seria 50DS51.5 (1.5 kW)
- seria 50DS52.2 (2.2 kW)
- seria 50DS53.7 (3.7 kW)



CURBE DE PERFORMANTA (per. ISO 9906 Anexa A)

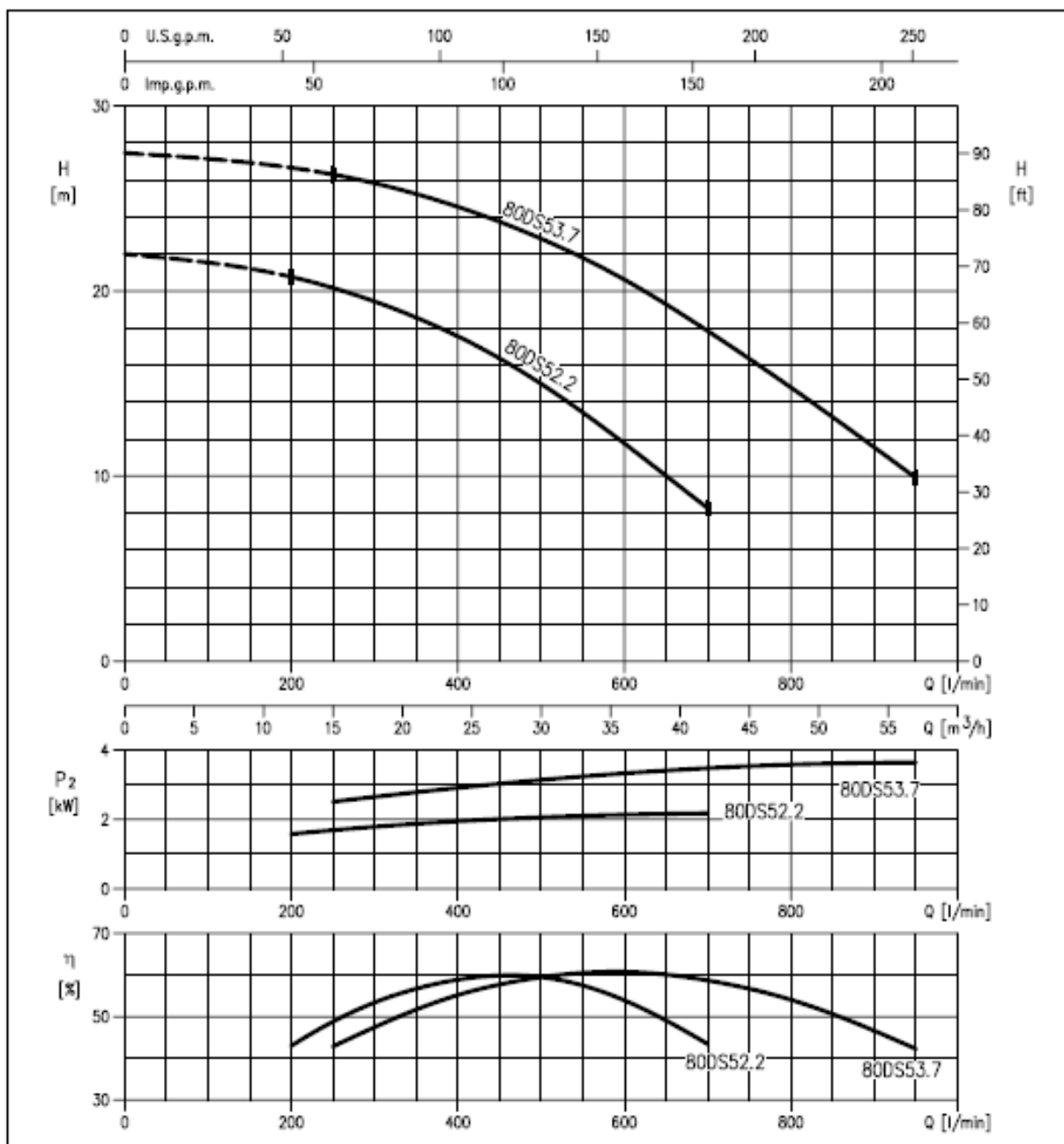
- seria 65DS51.5 (1.5 kW)



CURBE DE PERFORMANTA (per. ISO 9906 Anexa A)

- seria 80DS52.2 (2.2 kW)

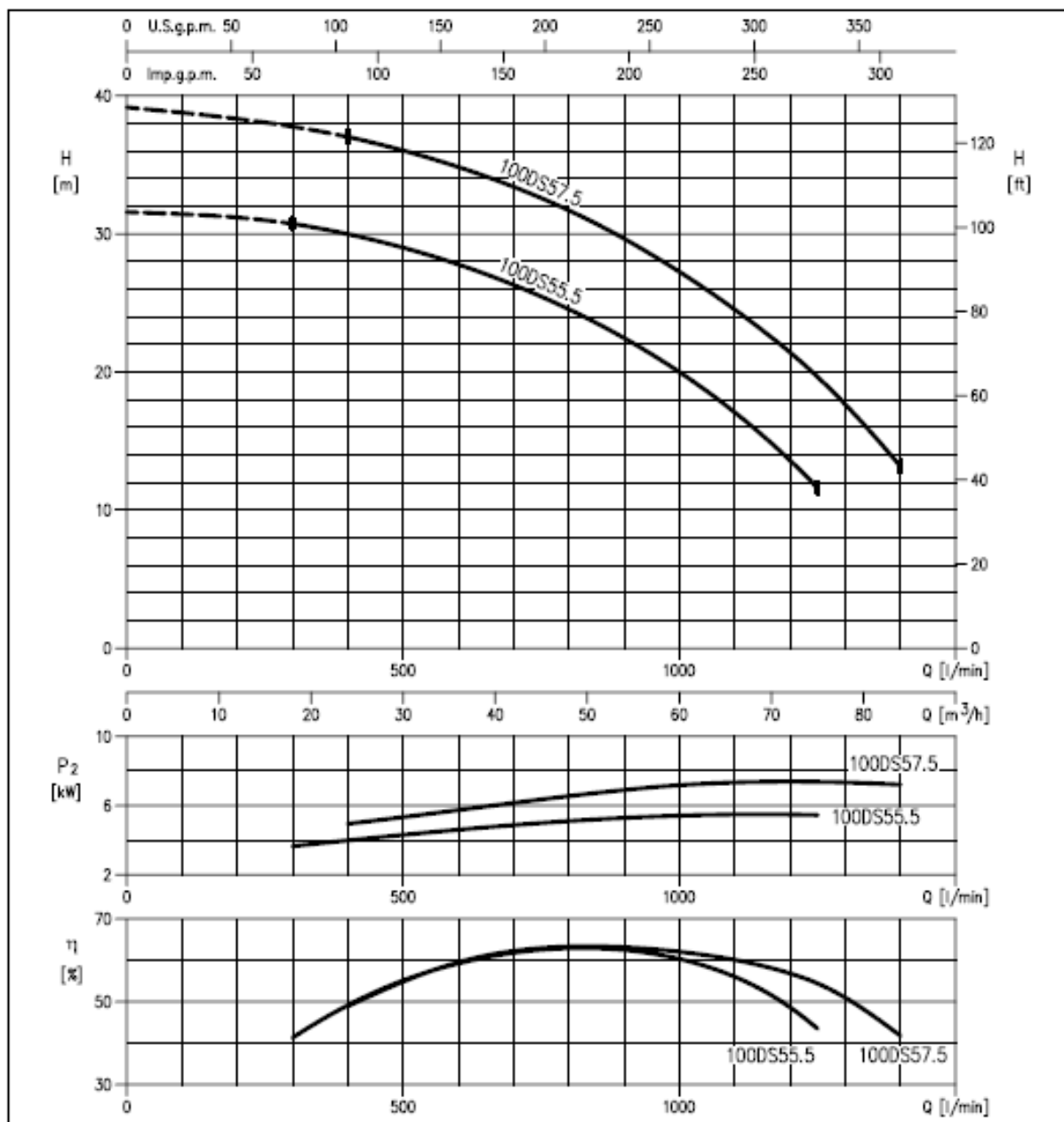
- seria 80DS53.7 (3.7 kW)



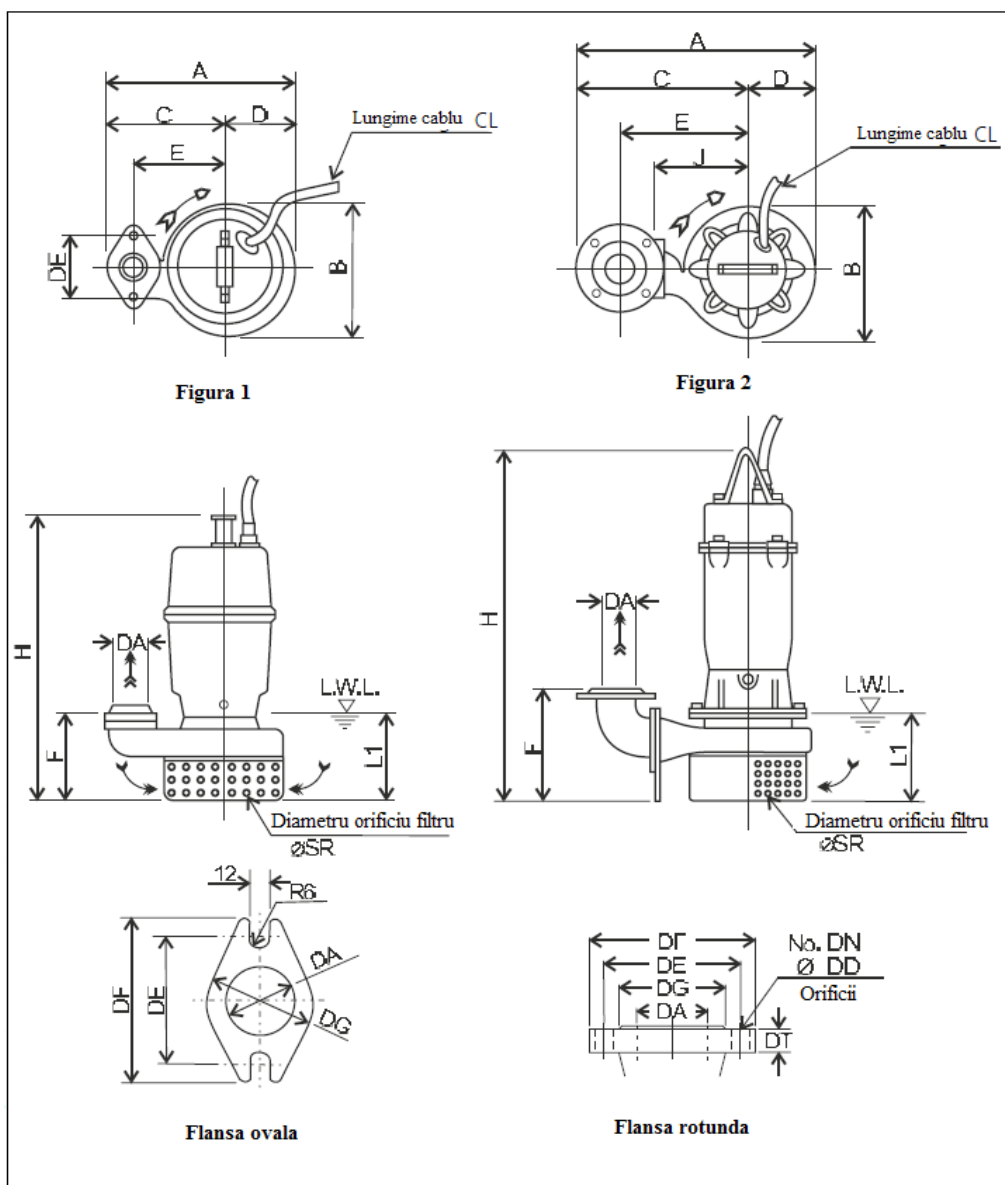
CURBE DE PERFORMANTA (per. ISO 9906 Anexa A)

- seria 100DS55.5. (5.5 kW)

- seria 100DS57.5 (7.5 kW)



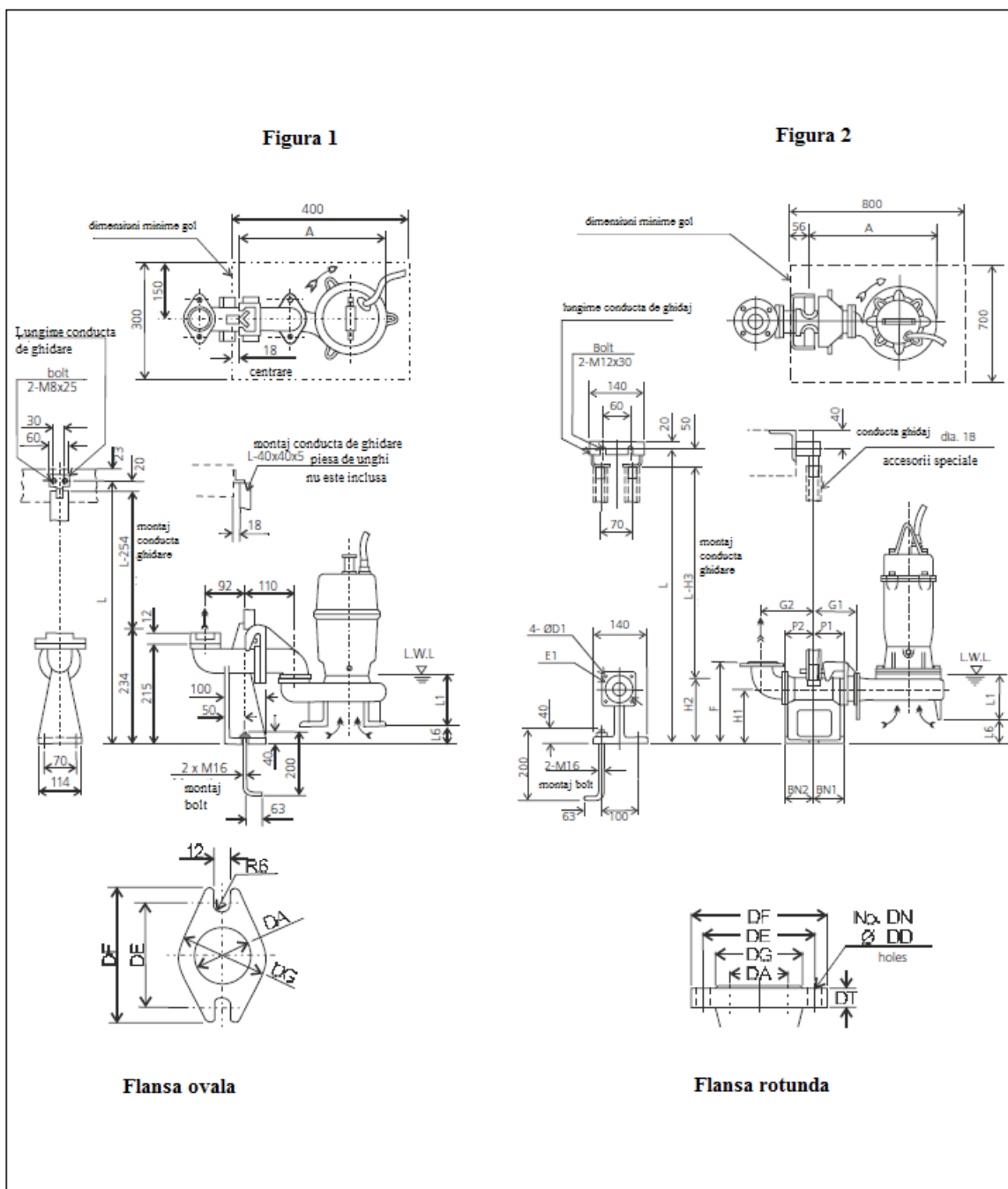
DIMENSIUNI DS



Tabel dimensiuni flansa[mm] - EN 1092-2							
Tip	DA	DE	DF	DG	DT	DN	DD
Oval	50	96	114	76	-	-	-
Rotund		125	165	99	17	4	19
	65	145	185	118			
	80	160	220	132	19	8	
	100	180	220	156	21		

TABEL DIMENSIUNI DS

DA	Model	Fig.	Tip flansa	[kW]	DA	A	B	C	D	E	F	H	DE	J	L1 (*)	ØSR	CL [m]	Greutate [kg]
50	50DS51.5	1	Oval	1.5	G2	266	200	168	98	130	115	450	96	-	120	10	6	25
	50DS52.2			2.2	50	433	245	313	120	235	198	619	-	180	160		10	55
	50DS53.7			3.7													61	
65	65DS51.5	2	Rotund	1.5	65	407	210	303	104	215	197	503	-	150	120	10	6	35
80	80DS52.2			2.2	80	503	268	368	135	275	215	625	-	200	160			59
	80DS3.7			3.7													64	
	100DS55.5			5.5	100	615	309	460	155	355	257	730	-	250	200		92	
100	100DS57.5			7.5													104	

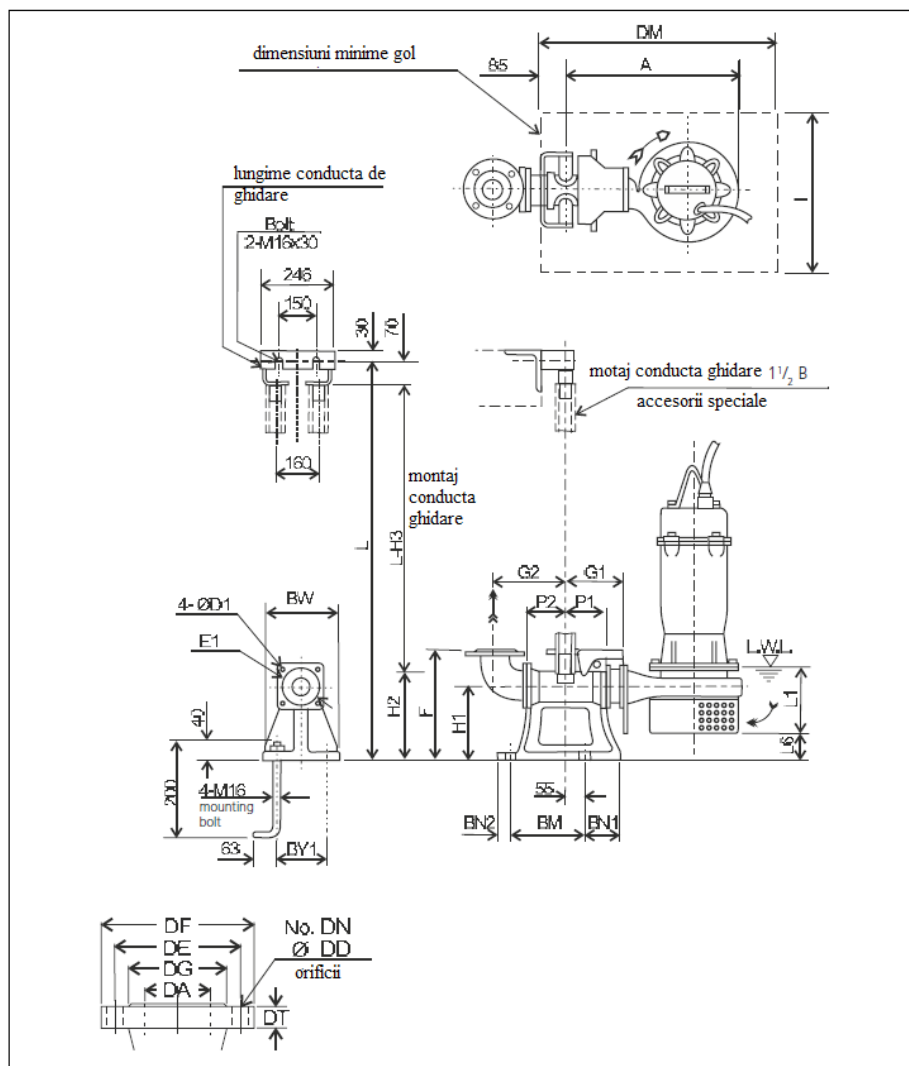
DIMENSIUNI DS CU QDC (dispozitiv de coborare) (1.5 – 3.7 kW)


Tabel dimensiuni flansa[mm] - EN 1092-2							
Tip	DA	DE	DF	DG	DT	DN	DD
Oval	50	96	114	76	-	-	-
Rotund	50	125	165	99	17	4	19
	65	145	185	118			
	80	160	220	132	19	8	

TABEL DIMENSIUNI DS CU QDC (kit dispozitiv coborare) (1.5 – 3.7 kW)

DA	Model	Fig.	Tip flansa	[kW]	DA	A	P1	P2	G1	G2	F	H1	H2	H3	L ₁ ^(*)	L6	BN1	BN2	D1	E1	QDC (kit dispozitiv coborare) Model	Greutate [kg]
50	50DS51.5	1	Oval	1.5	G2	-	-	-	-	-	-	-	-	-	120	25	-	-	-	-	LS50	9
	50DS52.2			2.2	50	415	75	80	115	135	230	135	165	215	160	32	-	80	12	120	LM50	11
	50DS53.7			3.7	50	415	75	80	115	135	230	135	165	215	160	32	-	80	12	120	LM50	11
65	65DS51.5	2	Rotund	1.5	65	374	75	95	120	160	250	145	190	240	120	53	75	95	12	140	LM65	14
	80DS52.2			2.2	80	460	75	90	125	165	285	175	230	280	160	70	-	90	15	155	LM80	17
	80DS3.7			3.7	80	460	75	90	125	165	285	175	230	280	160	70	-	90	15	155	LM80	17

DIMENSIONS DS CU QDC (dispozitiv de coborare) (5.5 – 7.5 kW)

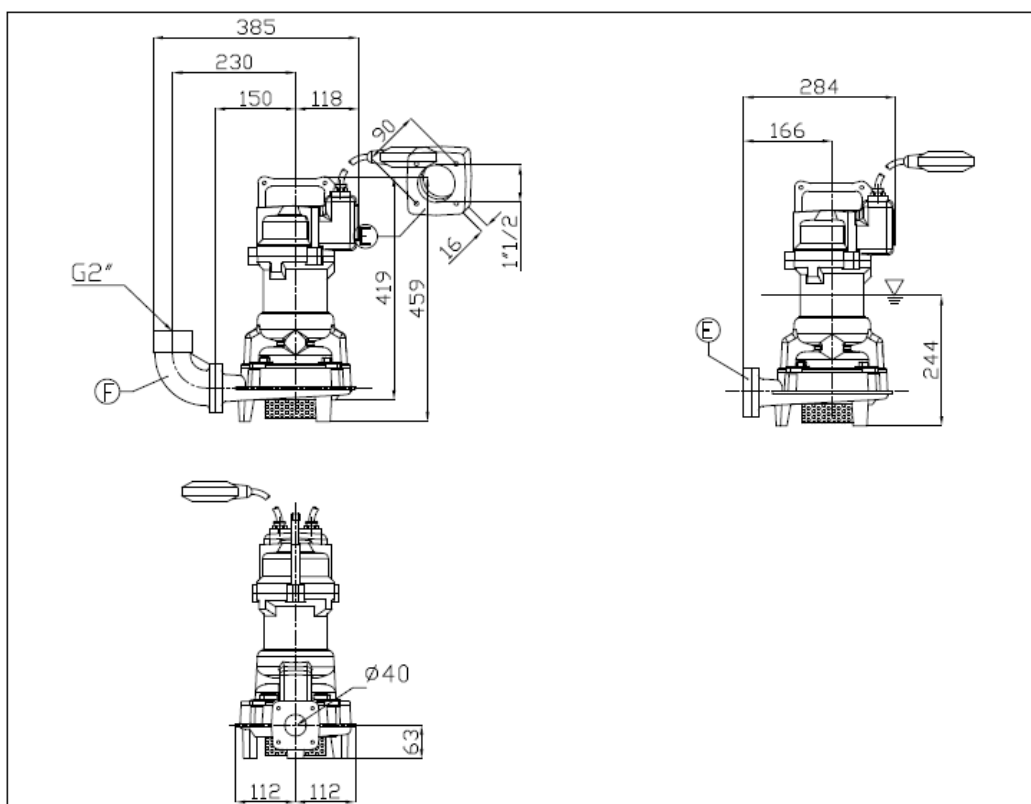


Tabel dimensiuni flansa [mm] - EN 1092-2							
Tip	DA	DE	DF	DG	DT	DN	DD
Rotund	100	180	220	156	21	8	19

TABEL DIMENSIUNI DS CU QDC (kit dispozitiv coborare) (5.5 -7.5 kW)

DA	Model	[kW]	A	P1	P2	G1	G2	F	H1	H2	H3	L1 (*)	L6	BN1	BN2	BM	BY1	BW	DM	I	D1	E1	QDC (kit dispozitiv coborare)	
																							Model	Greutate [kg]
100	100DS55.5	5.5	590	105	105	185	210	365	240	265	335	200	108	100	40	220	180	230	800	700	19	175	LL100	46
	100DS57.5	7.5																						

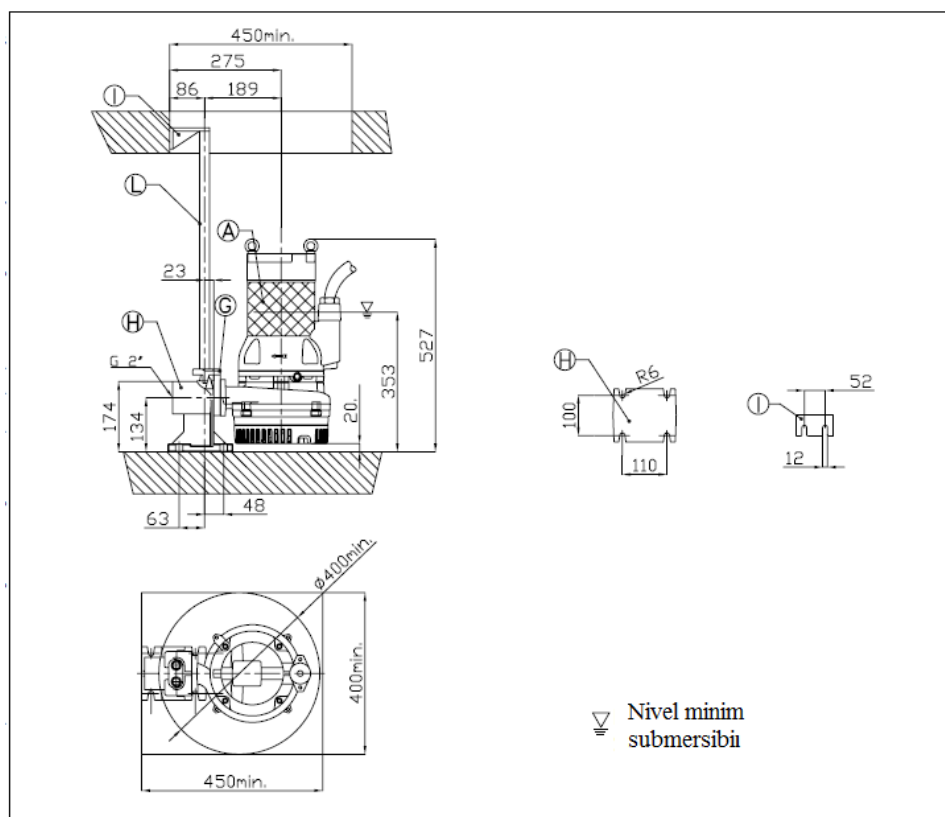
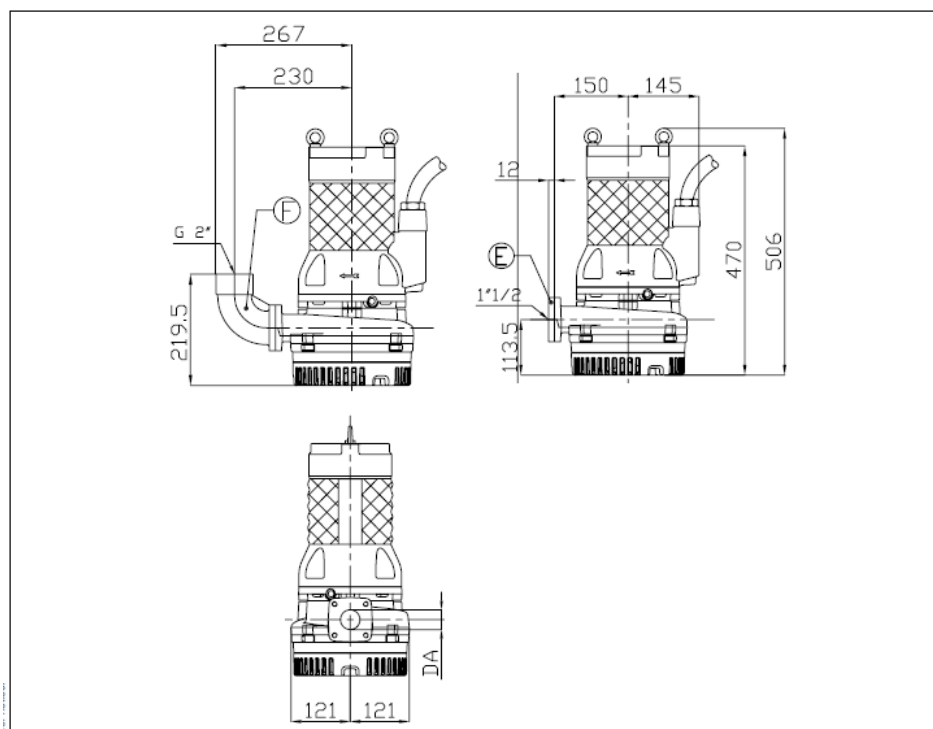
DIMENSIUNI 40DSF/40DSF cu QDC (1.5 – 1.9 kW)



TABEL DIMENSIUNI 40DSF/40DSF cu QDC (1.5 – 1.9 kW)

DA	Model	[kW]	Greutate [kg]
40	40DSF51.5M2CG	1.5	38
	40DSF51.9M2AG	1.9	38

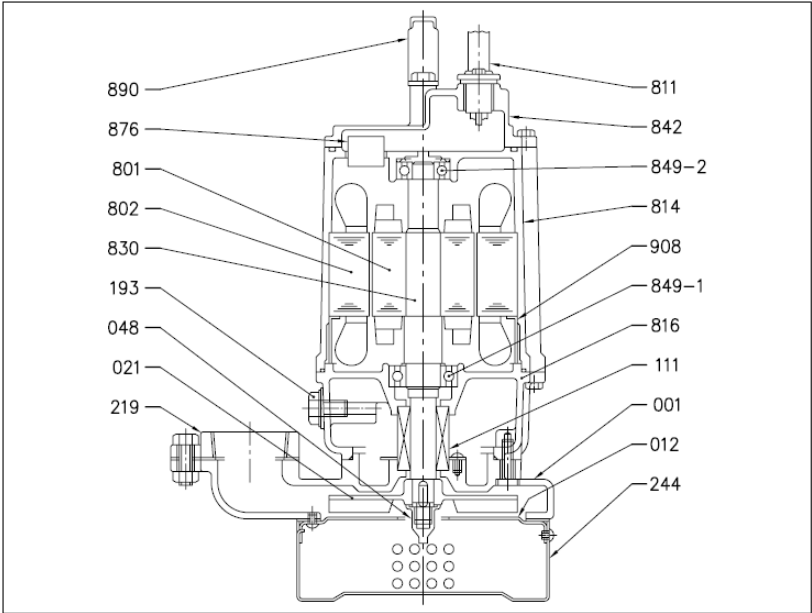
DIMENSIUNI 40DSF/40DSF cu QDC (6.0 kW)



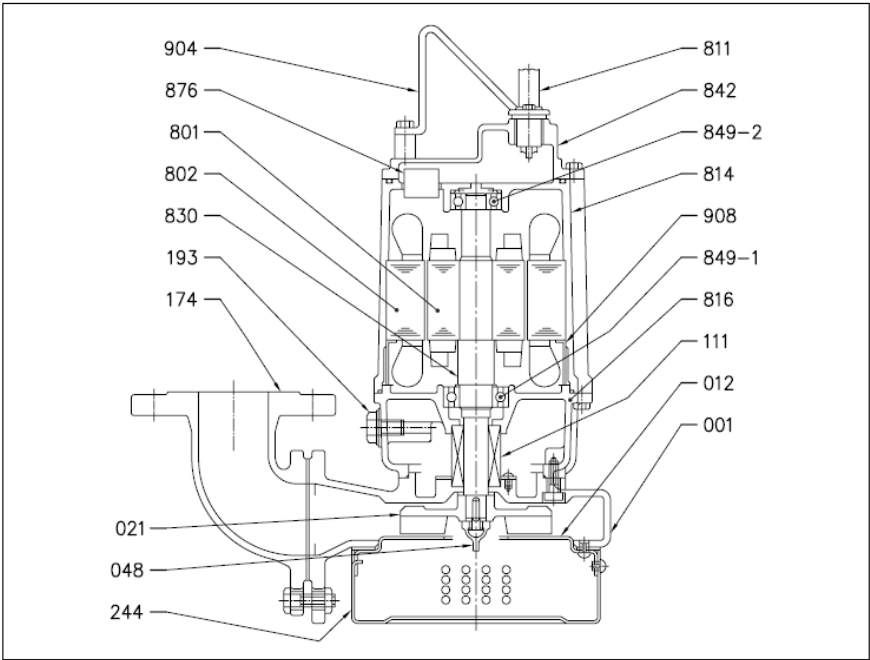
TABEL DIMENSIUNI 40DSF (6.0 kW)

DA	Model	[kW]	Greutate [kg]
40	40DSF56T2AG	6	68

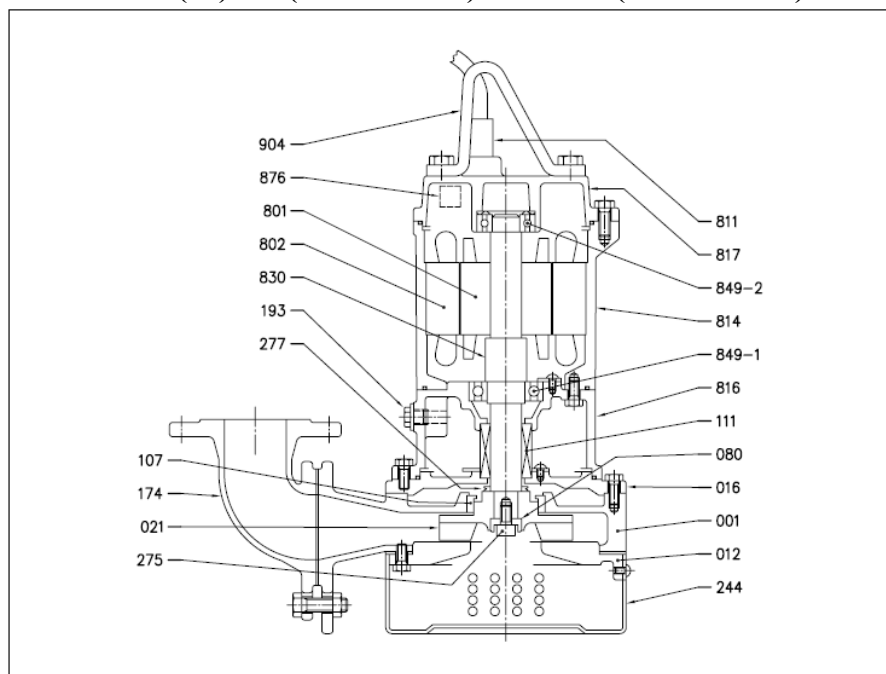
VEDERE IN SECTIUNE 50 DS (1.5 kW)



VEDERE IN SECTIUNE 65 DS (1.5 kW)



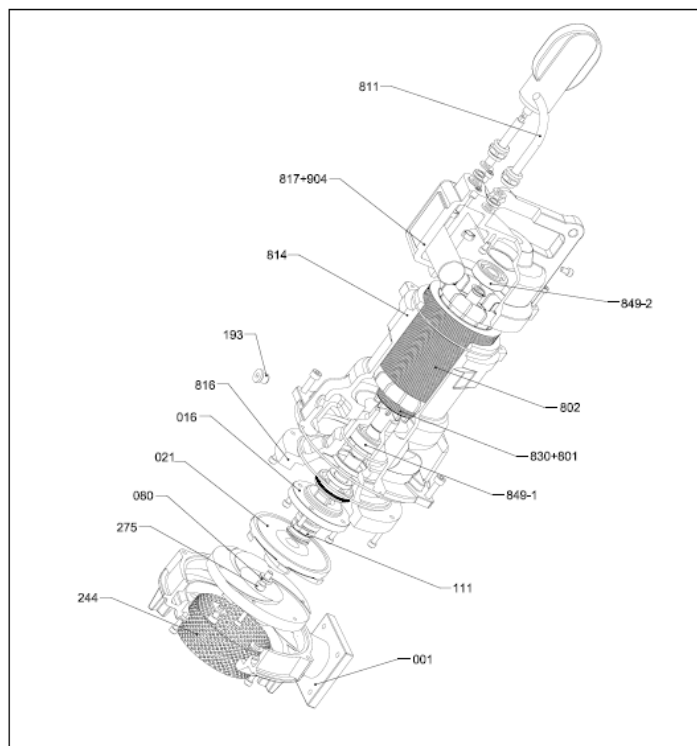
VEDERE IN SECTIUNE 50(80) DS (2.2 – 3.7 kW) – 100 DS (5.5 – 7.5 kW)



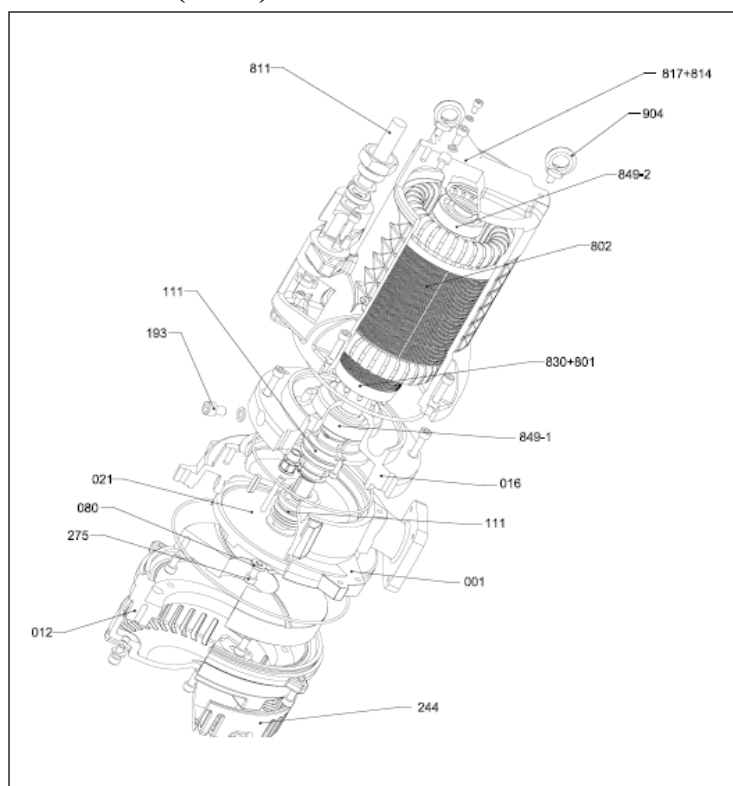
TABEL MATERIALE DS

Ref.	Nume	Material	Ref.	Nume	Material
001	Corp pompa	Fonta EN-GHJL-200-EN 1561	811	Cablu	-
012	Capac parte aspirare	EN 1.4301 (AISI 304 otel inoxidabil)	814	Capac motor	Fonta EN-GHJL-200-EN 1561
021	Rotor	Fonta EN-GHJL-200-EN 1561	816	Montura motor	Fonta EN-GHJL-200-EN 1561
048	Piulita rotor	Alama	830	Ax	EN 1.4006 (AISI403)
111	Etansare mecanica	-	842	Capac motor	Fonta EN-GHJL-200-EN 1561
174	Curba drenaj	Fonta EN-GHJL-200-EN 1561	849-1	Rulment cu bile	-
193	Cap ulei	NBR/EN 1.4301 (AISI 304 otel inoxidabil)	849-1	Rulment cu bile	-
275	Piulita rotor	Clasa A2 AISI 304 otel inoxidabil	849-2	Rulment cu bile	-
244	Filtru	EN 1.4301 (AISI 304 otel inoxidabil)	876	Decuplare motor	-
801	Rotor	-	904	Maner ridicare [2]	Otel inoxidabil
802	Stator	-	908	Distantier	Otel

VEDERE IN SECTIUNE 40 DSF (1.5 – 1.9 kW)



VEDERE IN SECTIUNE 40 DSF (6 kW)



TABEL MATERIALE DSF

Ref.	Nume	Material	Ref.	Nume	Material
001	Corp pompa	Fonta EN-GJL-250	811	Cablu	-
012	Capac parte aspirare	Fonta EN-GJL-250	814	Capac motor	Fonta EN-GJL-250
016	Capac etansare mecanica	Fonta EN-GJL-250	816	Montura superioara	Fonta EN-GJL-250
021	Rotor	Fonta ductila GS400 UNI EN 1563	817	Rulment inferior	Fonta EN-GJL-250
080	Bucsa	Otel	830	Ax	AISI 4208
111	Etansare mecanica	-	842-1	Capac motor	Fonta EN-GJL-250
193	Capac ulei	NBR/Otel inoxidabil	842-2	Capac motor	Fonta EN-GJL-250
244	Filtru	AISI 316L	849-1	Rulment cu bile	-
275	Piulita rotor	Clasa A2 AISI 304 otel inoxidabil	849-2	Rulment cu bile	-
801	Rotor	-	904	Maner ridicare [1]	Fonta EN-GJL-250
802	Stator	-	904	Maner ridicare [2]	Otel

[1] – pentru modelele 40 DSF (1.5 – 1.9 kW)

[2] – pentru modelele 40 DSF (6 kW) si 40 DSF (15.9 kW)

TABEL DATE ELECTRICE DS (1.5 – 3.7 kW)

[P ₂]			[kW]	1.5			2.2			3.7		
Rezistența la 20°C			[Ω]	11.973			4.942			2.647		
GD ²			[kg/m ²]	0.0057			0.0082			0.011		
Voltaj			[V]	380	400	415	380	400	415	380	400	415
Încercare completă	0%	Curent	[A]	1.25	1.32	1.30	1.95	2.15	2.33	3.20	3.30	3.90
		Putere	[W]	430	405	400	500	500	252	800	500	600
	75%	Curent	[A]	2.92	2.62	2.61	4.07	4.06	3.82	7.07	6.32	6.45
		Eficiența	[%]	63.59	69.18	70.11	71.23	69.69	77.58	68.00	75.54	74.26
		Factor putere	[%]	91.93	89.54	85.68	86.44	84.27	77.40	87.75	83.92	80.61
		rpm	[min ⁻¹]	2872	2887	2898	2895	2901	2927	2890	2917	2922
	100%	Curent	[A]	3.70	3.30	3.30	5.10	5.00	4.60	8.80	7.80	7.80
		Eficiența	[%]	65.61	71.25	70.89	73.05	72.28	79.33	70.79	77.64	76.74
		Factor putere	[%]	93.88	92.08	89.21	89.71	87.87	83.88	90.24	88.18	86.00
		rpm	[min ⁻¹]	2821	2847	2854	2851	2864	2900	2847	2886	2890
Cuplu cu rotor blocat			[%]	243	295	303	161	186	184	175	216	233
Curent pornire			[A]	20.5	21.1	22.5	28.7	30.0	31.5	51.2	51.0	53.0
Porniri pe ora				10								
Model				ZDSEU								

TABEL DATE ELECTRICE DS (5.5 – 7.5 kW)

[P ₂]			[kW]	5.5			7.5		
Rezistența la 20°C			[Ω]	2.001			1.345		
GD ²			[kg/m ²]	0.03			0.037		
Voltaj			[V]	380	400	415	380	400	415
Încarcare completă	0%	Curent	[A]	3.00	2.70	2.70	3.65	3.20	3.27
		Putere	[W]	340	800	340	400	800	400
	75%	Curent	[A]	8.37	8.36	7.59	11.43	11.02	10.17
		Eficiența	[%]	82.89	77.34	83.68	83.36	79.51	84.44
		Factor putere	[%]	90.37	92.05	90.40	89.70	92.68	91.14
		rpm	[min ⁻¹]	2944	2932	2945	2941	2928	2942
	100%	Curent	[A]	10.80	10.80	9.80	14.80	14.30	13.20
		Eficiența	[%]	83.87	79.10	84.51	84.26	80.96	85.13
		Factor putere	[%]	92.25	92.92	92.39	91.34	93.50	92.85
		rpm	[min ⁻¹]	2922	2905	2923	2917	2900	2918
Cuplu cu rotor blocat			[%]	168	155	168	159	154	159
Curent de pornire			[A]	77.0	70.0	70.0	105.0	93.5	94.0
Pompiți pe ora				10					
Model				ZDSEU					

TABEL DATE ELECTRICE DSF (1.5 – 6 kW)

[P ₂]			[kW]	1.5	1.9	6
Rezistența la 20°C			[Ω]	-	-	-
GD ²			[kg/m ²]	0.0021	0.0025	0.015
Voltaj			[V]	230	230	400/690
Încarcare completă	0%	Curent	[A]	-	-	-
		Putere	[W]	-	-	-
	75%	Curent	[A]	-	-	-
		Eficiența	[%]	72	80	73
		Factor putere	[%]	0.97	0.97	0.84
		rpm	[min ⁻¹]	-	-	-
	100%	Curent	[A]	-	-	-
		Eficiența	[%]	73	73	90
		Factor putere	[%]	0.99	0.99	0.88
	rpm	[min ⁻¹]	-	-	-	
Cuplu cu rotor blocat			[%]	-	-	-
Curent de pornire			[A]	33.3	35	64.3
Faze			1		3	
Porniri pe ora			15			
Model			M271M-1.5-230/50NY-IE	M271M-1.9-230/50NY-IE	M210T-6-400/50YY-IE3	
Tip pompa			40DSF51.5M2CG	40DSF51.9M2AG	40DSF56T2AG	