

Technical Data

Electric Pumps > Vertical Axis, Submersible

> 4 Series



Ø coupling
1" 1/4 - 4A/B/D/E
2" - 4F/H/L

4"

DESCRIPTION:

Application

- Domestic and industrial field
- Water supply, pressurization and irrigation

- Construction features and use of specific materials make 4HS pumps suitable for drinkable water as well

Features

- Asynchronous, three-phase motor with water bath rotor, jacketed and resin coated stator, wholly in AISI 304 stainless steel
- Multi-stage pump wholly in AISI 304 stainless steel

Specifics

- Flow-rates up to 21 m³/h
- Head up to up to 360 m
- Power up to 7,5 Kw
- Pumped fluid maximum temperature: 30°C
- Maximum sand quantity: 185 g/m³
- Maximum starts per hour: 15
- Apiration recommended minimum lever: 1 m
- On request assembled pumps with water bath motors are supplied
- Single-phase motor capacitors not included

Materials

- Polycarbonate impellers and diffusers
- Atoxic rubber thrust bearing
- Ceramic sleeves
- AISI 304 heads
- External hose, shaft and other details in AISI 304

Motor

- See features on page 185

4A SERIES

10 ÷ 40 L/M - 336 ÷ 15 MH2O

Code	Type	HP	Kw	
PSSM050	4A 005 N09	0,50	0,37	230V - µF 16
PSSM051	4A 007 N14	0,75	0,55	230V - µF 20
PSSM052	4A 010 N18	1,00	0,75	230V - µF 25
PSSM053	4A 015 N28	1,50	1,10	230V - µF 35
PSSM054	4A 020 N38	2,00	1,50	230V - µF 40
PSSM055	4A 030 N57	3,00	2,20	230V - µF 50

4B SERIES

15 ÷ 50 L/M - 346 ÷ 18 MH2O

Code	Type	HP	Kw	
PSSM060	4B 005 N07	0,50	0,37	230V - µF 16
PSSM061	4B 007 N11	0,75	0,55	230V - µF 20
PSSM062	4B 010 N15	1,00	0,75	230V - µF 25
PSSM063	4B 015 N22	1,50	1,10	230V - µF 35
PSSM064	4B 020 N30	2,00	1,50	230V - µF 40
PSSM065	4B 030 N44	3,00	2,20	230V - µF 50

PSST050	4A 005 N09	0,50	0,37	400V
PSST051	4A 007 N14	0,75	0,55	400V
PSST052	4A 010 N18	1,00	0,75	400V
PSST053	4A 015 N28	1,50	1,10	400V
PSST054	4A 020 N38	2,00	1,50	400V
PSST055	4A 030 N57	3,00	2,20	400V

PSST060	4B 005 N07	0,50	0,37	400V
PSST061	4B 007 N11	0,75	0,55	400V
PSST062	4B 010 N15	1,00	0,75	400V
PSST063	4B 015 N22	1,50	1,10	400V
PSST064	4B 020 N30	2,00	1,50	400V
PSST065	4B 030 N44	3,00	2,20	400V
PSST066	4B 040 N60	4,00	3,00	400V

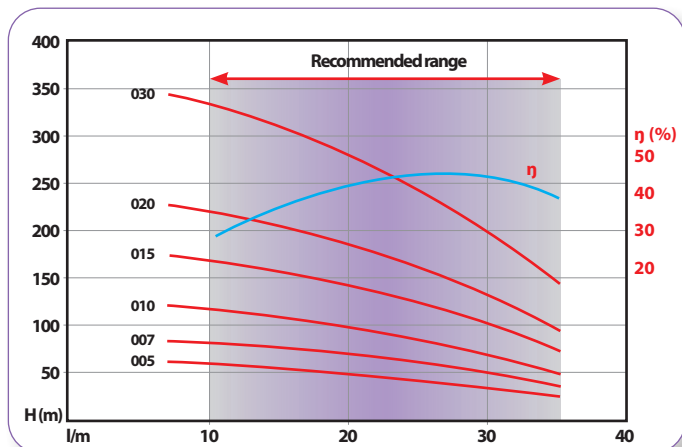
PCPS061	4A 005 N09			Pump only
PCPS019	4A 007 N14			Pump only
PCPS018	4A 010 N18			Pump only
PCPS060	4A 015 N28			Pump only
PCPS009	4A 020 N38			Pump only
PCPS008	4A 030 N57			Pump only

PCPS001	4B 005 N07			Pump only
PCPS002	4B 007 N11			Pump only
PCPS003	4B 010 N15			Pump only
PCPS004	4B 015 N22			Pump only
PCPS005	4B 020 N30			Pump only
PCPS006	4B 030 N44			Pump only
PCPS007	4B 040 N60			Pump only

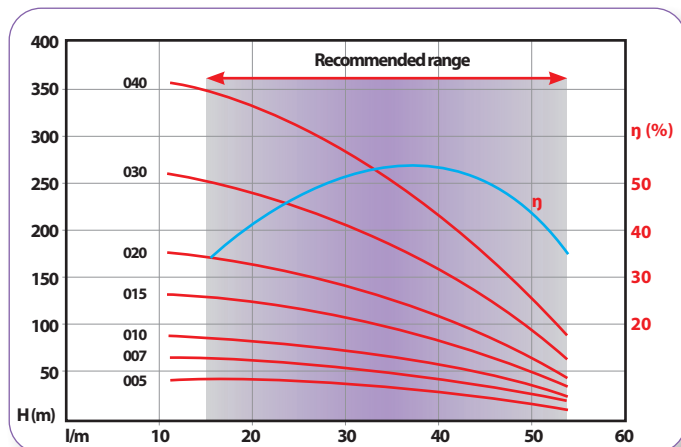


Technical Data

Electric Pumps > Vertical Axis, Submersible



4A series



4B series

4" SUBMERSIBLE ELECTRIC PUMPS - (50 HZ - 2 POLES) - TOTAL MANOMETRIC HEADS IN METERS

Type	m ³ /h	Total Manometric Heads (m)										
		0	0,6	0,9	1,2	1,5	1,8	2,1	2,4	2,7	3	
		l/min	10	15	20	25	30	35	40	45	50	
	l/sec	0	0,17	0,25	0,33	0,42	0,50	0,58	0,67	0,75	0,83	
4A 005 N11	mH ₂ O	63	59	55	50	43	35	26	15			
4A 007 N16		90	85	80	72	62	51	37	20			
4A 010 N22		124	117	109	99	86	70	50	28			
4A 015 N32		181	171	159	144	125	101	73	41			
4A 020 N42		237	224	209	189	163	133	96	54			
4A 030 N63		356	336	313	283	245	199	144	81			
4B 005 N07	mH ₂ O	47		44	42	39	36	33	28	23	18	
4B 007 N11		70		65	63	59	54	49	43	35	27	
4B 010 N15		96		89	85	80	74	67	58	48	37	
4B 015 N22		140		129	124	117	107	96	83	68	50	
4B 020 N30		187		174	166	155	142	126	109	87	64	
4B 030 N44		274		254	243	227	208	185	159	128	94	
4B 040 N60		373		346	331	310	284	253	217	175	128	

Tolerances according to ISO 9906 ann. A gr.2

Pumps



Technical Data

Electric Pumps > Vertical Axis, Submersible

4D SERIES

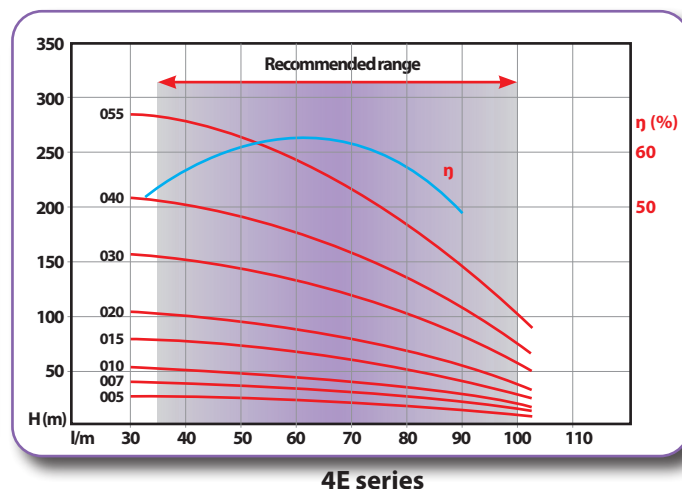
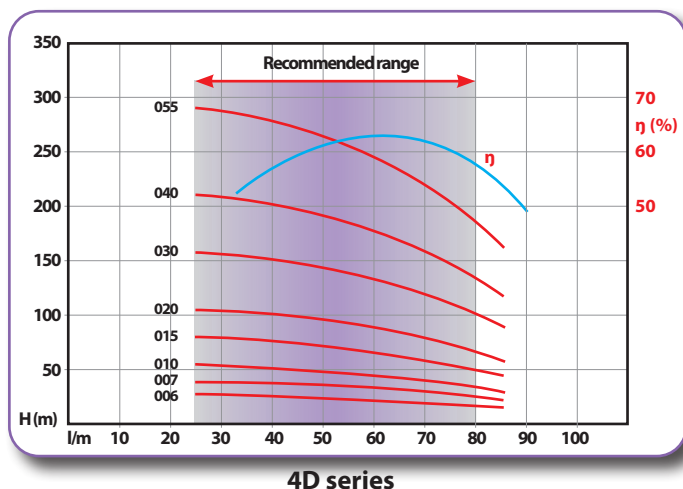
25 ÷ 80 L/M - 325 ÷ 13 MH2O

4E SERIES

35 ÷ 100 L/M - 282 ÷ 9 MH2O

Code	Type	HP	Kw		Code	Type	HP	Kw	
PSSM010	4D 005 N05	0,50	0,37	230V - μF 16	PSSM030	4E 005 N04	0,50	0,37	230V - μF 16
PSSM011	4D 007 N07	0,75	0,55	230V - μF 20	PSSM031	4E 007 N06	0,75	0,55	230V - μF 20
PSSM012	4D 010 N10	1,00	0,75	230V - μF 25	PSSM032	4E 010 N08	1,00	0,75	230V - μF 25
PSSM013	4D 015 N15	1,50	1,10	230V - μF 35	PSSM033	4E 015 N12	1,50	1,10	230V - μF 35
PSSM014	4D 020 N20	2,00	1,50	230V - μF 40	PSSM034	4E 020 N16	2,00	1,50	230V - μF 40
PSSM015	4D 030 N30	3,00	2,20	230V - μF 50	PSSN035	4E 030 N24	3,00	2,20	230V - μF 50
PSST010	4D 005 N05	0,50	0,37	400V	PSST040	4E 005 N04	0,50	0,37	400V
PSST011	4D 007 N07	0,75	0,55	400V	PSST041	4E 007 N06	0,75	0,55	400V
PSST012	4D 010 N10	1,00	0,75	400V	PSST042	4E 010 N08	1,00	0,75	400V
PSST013	4D 015 N15	1,50	1,10	400V	PSST043	4E 015 N12	1,50	1,10	400V
PSST014	4D 020 N20	2,00	1,50	400V	PSST044	4E 020 N16	2,00	1,50	400V
PSST015	4D 030 N30	3,00	2,20	400V	PSST045	4E 030 N24	3,00	2,20	400V
PSST016	4D 040 N40	4,00	3,00	400V	PSST046	4E 040 N32	4,00	3,00	400V
PSST017	4D 055 N54	5,50	4,00	400V	PSST047	4E 055 N44	5,50	4,00	400V
PCPS010	4D 005 N05			Pump only	PCPS053	4E 005 N04			Pump only
PCPS011	4D 007 N07			Pump only	PCPS062	4E 007 N06			Pump only
PCPS012	4D 010 N10			Pump only	PCPS054	4E 010 N08			Pump only
PCPS013	4D 015 N15			Pump only	PCPS055	4E 015 N12			Pump only
PCPS014	4D 020 N20			Pump only	PCPS056	4E 020 N16			Pump only
PCPS015	4D 030 N30			Pump only	PCPS057	4E 030 N24			Pump only
PCPS016	4D 040 N40			Pump only	PCPS063	4E 040 N32			Pump only
PCPS017	4D 055 N54			Pump only	PCPS064	4E 055 N44			Pump only

Pumps





Technical Data

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4" SUBMERSIBLE ELECTRIC PUMPS - (50 HZ - 2 POLES) - TOTAL MANOMETRIC HEADS IN METERS

Type	m ³ /h	0	1,5	1,8	2,1	2,4	2,7	3	3,6	4,2	4,8	5,4	6	6,6	7,2		
	l/min	0	25	30	35	40	45	50	60	70	80	90	100	110	120		
	l/sec	0	0,42	0,50	0,58	0,67	0,75	0,83	1,00	1,17	1,33	1,50	1,67	1,83	2,00		
4D 005 N05	mH ₂ O	33	31	30	30	29	27	26	23	18	13						
4D 007 N07		46	44	43	42	40	38	36	32	25	18						
4D 010 N10		65	62	61	59	57	55	52	45	36	25						
4D 015 N15		97	91	89	87	83	80	76	65	52	36						
4D 020 N20		129	121	119	116	111	106	101	87	69	48						
4D 030 N30		193	182	178	173	167	160	151	130	103	71						
4D 040 N40		257	241	235	228	220	209	198	170	134	90						
4D 055 N54		346	325	318	307	296	282	267	229	181	122						
4E 005 N04	mH ₂ O				27	26	25	25	24	22	20	17	13	9	5	1	
4E 007 N06					41	38	38	37	36	33	30	25	20	14	8	2	
4E 010 N08					54	51	50	49	48	44	40	33	26	19	11	2	
4E 015 N12					82	77	75	74	72	67	60	50	39	28	16	4	
4E 020 N16					109	102	101	98	96	89	79	67	53	38	22	5	
4E 030 N24					163	154	151	148	144	133	119	100	79	56	32	7	
4E 040 N32					218	205	201	197	191	178	159	134	105	75	43	10	
4E 055 N44					299	282	277	271	263	245	218	184	145	103	59	13	

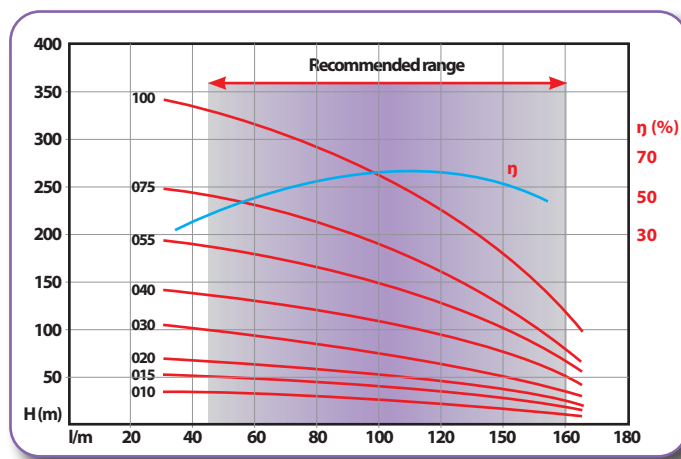
Tolerances according to ISO 9906 ann.A gr.2



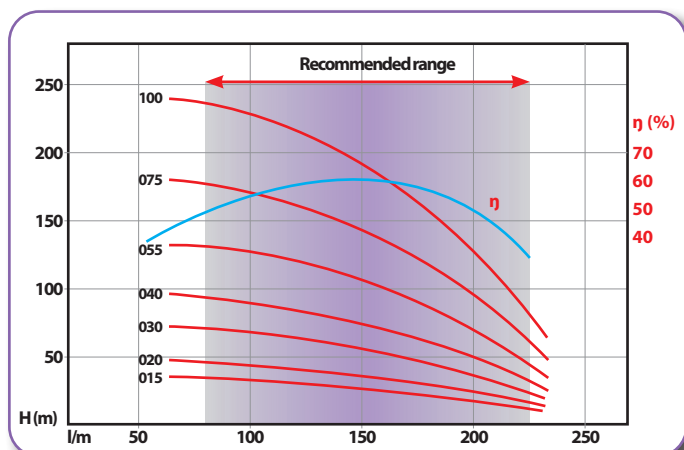
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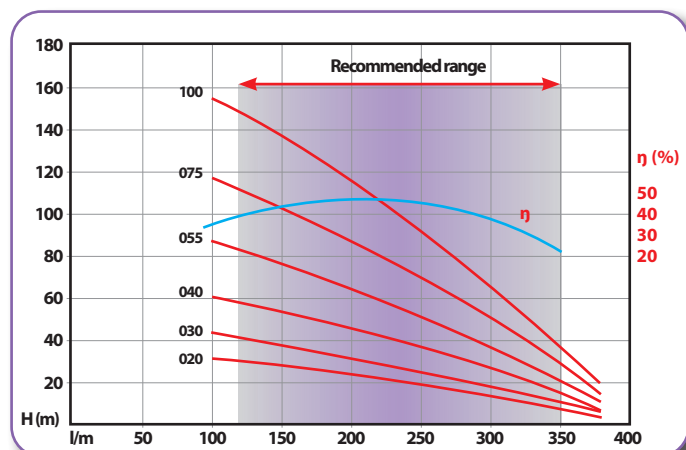
4F SERIES 45 ÷ 160 L/M - 330 ÷ 12 MH2O					4H SERIES 80 ÷ 225 L/M - 235 ÷ 12 MH2O					4L SERIES 120 ÷ 350 L/M - 148 ÷ 8 MH2O				
Code	Type	HP	Kw		Code	Type	HP	Kw		Code	Type	HP	Kw	
PSSM020	4F 010 N06	1,00	0,75	230V - µF 25	PSSM070	4H 015 N06	1,50	1,10	230V - µF 35	PSSM080	4L 020 N05	2,00	1,50	230V - µF 40
PSSM021	4F 015 N09	1,50	1,10	230V - µF 35	PSSM071	4H 020 N08	2,00	1,50	230V - µF 40	PSSM081	4L 030 N07	3,00	2,20	230V - µF 50
PSSM022	4F 020 N12	2,00	1,50	230V - µF 40	PSSM072	4H 030 N12	3,00	2,20	230V - µF 50					
PSSM023	4F 030 N18	3,00	2,20	230V - µF 50										
PSST020	4F 010 N06	1,00	0,75	400V	PSST030	4H 015 N06	1,50	1,10	400V	PSST080	4L 020 N05	2,00	1,50	400v
PSST021	4F 015 N09	1,50	1,10	400V	PSST031	4H 020 N08	2,00	1,50	400V	PSST081	4L 030 N07	3,00	2,20	400v
PSST022	4F 020 N12	2,00	1,50	400V	PSST032	4H 030 N12	3,00	2,20	400V	PSST082	4L 040 N10	4,00	3,00	400v
PSST023	4F 030 N18	3,00	2,20	400V	PSST033	4H 040 N16	4,00	3,00	400V	PSST083	4L 055 N14	5,50	4,00	400v
PSST024	4F 040 N24	4,00	3,00	400V	PSST034	4H 055 N22	5,50	4,00	400V	PSST084	4L 075 N19	7,50	5,50	400v
PSST025	4F 055 N34	5,50	4,00	400V	PSST035	4H 075 N30	7,50	5,50	400V	PSST085	4L 100 N25	10,00	7,50	400v
PSST026	4F 075 N45	7,50	5,50	400V	PSST036	4H 100 N39	10,00	7,50	400V					
PSST027	4F 100 N60	10,00	7,50	400V										
PCPS020	4F 010 N06			Pump only	PCPS030	4H 015 N06			Pump only	PCPS040	4L 020 N05			Pump only
PCPS021	4F 015 N09			Pump only	PCPS031	4H 020 N08			Pump only	PCPS041	4L 030 N07			Pump only
PCPS022	4F 020 N12			Pump only	PCPS032	4H 030 N12			Pump only	PCPS042	4L 040 N10			Pump only
PCPS023	4F 030 N18			Pump only	PCPS033	4H 040 N16			Pump only	PCPS043	4L 055 N14			Pump only
PCPS024	4F 040 N24			Pump only	PCPS034	4H 055 N22			Pump only	PCPS044	4L 075 N19			Pump only
PCPS025	4F 055 N34			Pump only	PCPS035	4H 075 N30			Pump only	PCPS045	4L 100 N25			Pump only
PCPS026	4F 075 N45			Pump only	PCPS036	4H 100 N39			Pump only					
PCPS027	4F 100 N60			Pump only										



4F series



4H series



4L series



Technical Data

Electric Pumps > Vertical Axis, Submersible

4" SUBMERSIBLE ELECTRIC PUMPS - (50 HZ - 2 POLES) - TOTAL MANOMETRIC HEADS IN METERS

Type	m ³ /h	0	2,7	3	3,6	4,2	4,8	5,4	6	6,6	7,2	8,4	9,6	10,8	12	13,5	15	16,5	18	19,5	21	22,5	24	
	l/min	0	45	50	60	70	80	90	100	110	120	140	160	180	200	225	250	275	300	325	350	375	400	
	l/sec	0	0,75	0,83	1,00	1,17	1,33	1,50	1,67	1,83	2,00	2,33	2,67	3,00	3,33	3,75	4,17	4,58	5,00	5,42	5,83	6,25	6,67	
4F 010 N06	mH2O	40	34	34	33	32	30	29	28	26	24	18	12	6										
4F 015 N09		60	51	51	49	47	46	44	41	39	35	28	19	9										
4F 020 N12		77	67	66	64	63	60	58	55	52	47	37	25	12										
4F 030 N18		116	101	100	97	94	91	87	83	77	71	55	37	18										
4F 040 N24		154	135	133	129	125	121	115	110	103	95	74	50	24										
4F 055 N34		210	187	184	178	173	166	159	150	140	129	101	67	27										
4F 075 N45		266	241	238	232	224	215	203	190	176	160	124	79	31										
4F 100 N60		370	330	325	315	305	294	280	265	248	227	179	118	47										
4H 015 N06	mH2O	39					35	35	34	33	32	30	27	23	18	12	5							
4H 020 N08		52					47	46	45	44	43	40	36	30	24	16	7							
4H 030 N12		78					71	69	68	67	64	60	53	46	37	23	11							
4H 040 N16		104					94	93	91	89	86	80	71	61	49	31	14							
4H 055 N22		144					129	127	125	123	121	113	102	88	69	44	16							
4H 075 N30		197					176	174	171	168	164	154	139	120	94	60	22							
4H 100 N39		262					235	231	228	224	219	206	185	159	126	80	30							
4L 020 N05		mH2O	36									30	28	27	25	23	21	18	16	13	11	8	4	1
4L 030 N07	50										42	40	37	35	33	29	25	22	19	15	11	6	1	
4L 040 N10	72										59	57	53	50	47	42	35	32	27	21	15	9	2	
4L 055 N14	101										83	79	75	70	65	59	49	45	37	29	21	12	3	
4L 075 N19	137										112	107	101	95	88	80	67	61	50	40	29	17	4	
4L 100 N25	180										148	142	133	125	116	105	88	80	66	53	38	22	5	

Tolerances according to ISO 9906 ann.A gr.2