



EBARA

4BHS

4" SUBMERSED CENTRIFUGAL PUMP

60 Hz

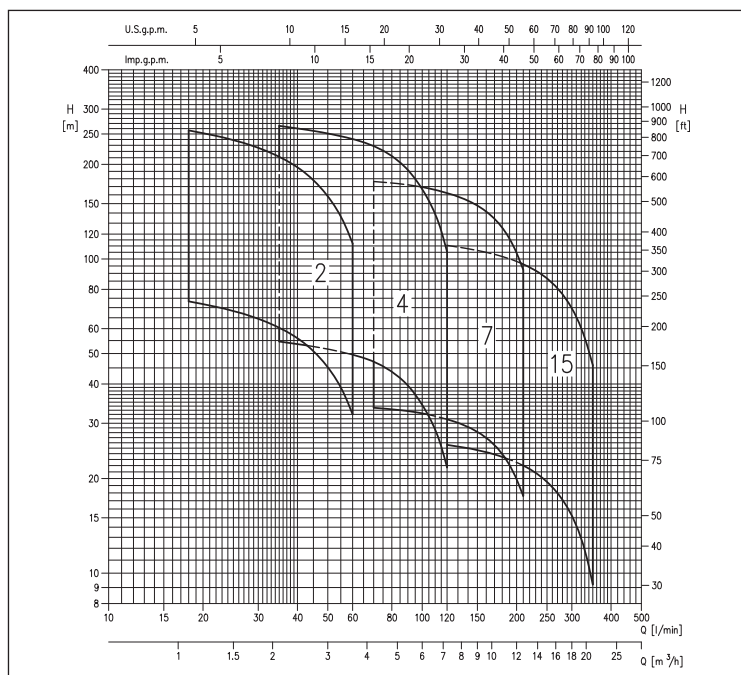


4" SUBMERSED CENTRIFUGAL PUMPS

in AISI 304



PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE

OY	4	BHS	4	34	/	22	M	6	60Hz
									SINGLE PHASE
									POWER OUTPUT IN kW x10
									N° OF IMPELLERS
									m³/h AT MAX. EFFICIENCY
									MODEL
									4" DIMENSION OF DEEP WELLS
									TYPE OF MOTOR
									OY OIL FILLED MOTOR
									WY WATER FILLED MOTOR

4" submersed centrifugal pumps built entirely in AISI 304 stainless steel. Suitable for coupling to 4" motors in compliance with NEMA Standards.

APPLICATIONS

- Domestic, agricultural and industrial water supply systems
- Pressure boosting, fire-fighting plants
- Irrigation
- Washing
- Moving clear water in general

TECHNICAL DETAILS

- Reliable and strong
- Corrosion-proof
- Exceptional efficiency due to the smooth surfaces of the impellers and nozzles

TECHNICAL DATA

- Maximum immersion: 150 m
- Maximum temperature of the liquid:
 - 40°C (oil filled motor)
 - 30°C (water filled motor)
- Maximum sand content: 50 ppm
- Maximum chlorine ion density: 500 ppm
- The pumps can be supplied as follows:
 - 4BHS pump with oil filled motor (OY)
 - 4BHS pump with water filled motor (WY)

The pump and the motor are supplied separately.

Both motors have the following features:

- 2 pole oil filled motor (OY) or water filled motor (WY)
- Max start-ups per hour: 30
- Quick coupling for power supply cable
- Class of insulation: F (OY version) or B (WY version)
- IP58 Protection rating
- 220-230V $\pm 10\%$, 60 Hz single phase voltage (OYM version), 380V $\pm 10\%$, 60 Hz three phase voltage (OY version)
- 460V $\pm 10\%$, 60 Hz three phase voltage (OY version)
- 230V $+6\%-10\%$, 60 Hz single phase voltage (WYM version), 380V -10% , 60 Hz three phase voltage (WY version)
- 460V $+6\%$, 60 Hz three phase voltage (WY version)
- Discharge connection: G1¼ (4BHS 2), G1½ (4BHS 4), G2 (4BHS 7 - 4BHS 15)
- For cable dimensioning (see page 8)

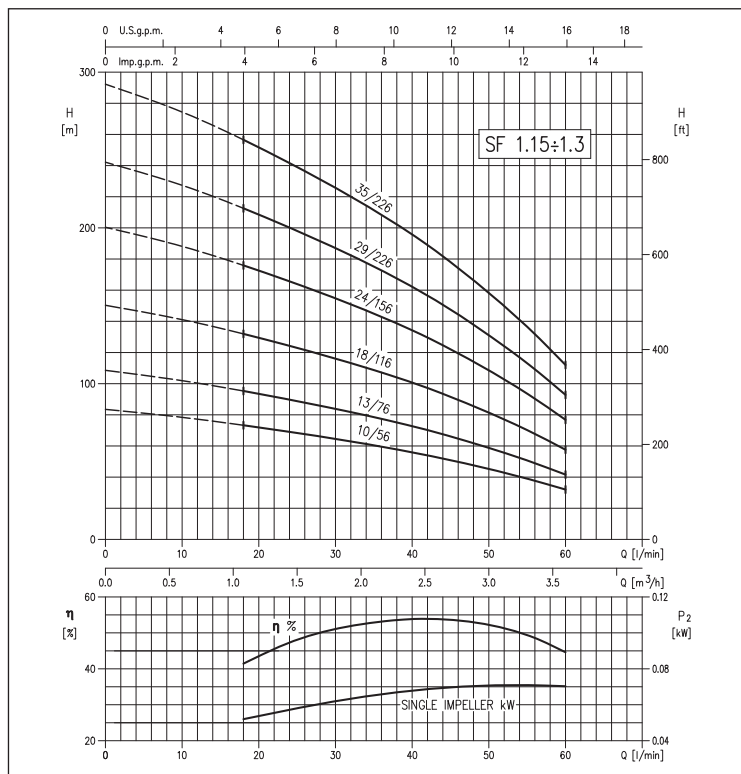
MATERIALS

- Suction casing, discharge casing, intermediate casing, impeller and valve in AISI 304
- Liner ring in EPDM/EN 1.4301 (AISI 304)
- Shaft in AISI 316

4" SUBMERSED CENTRIFUGAL PUMPS in AISI 304

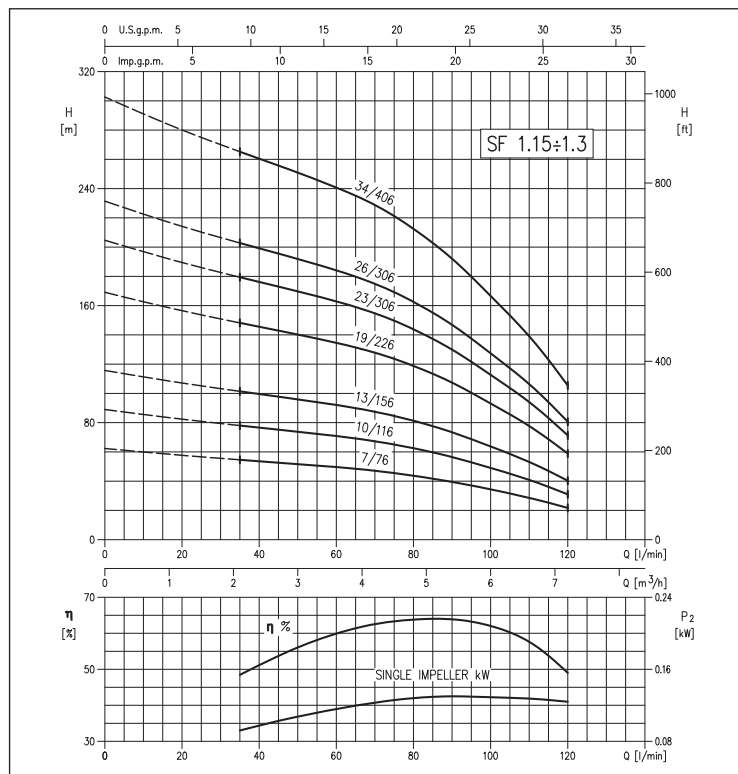
4BHS 2 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A) IMPELLER DIAMETER: 70.5 mm



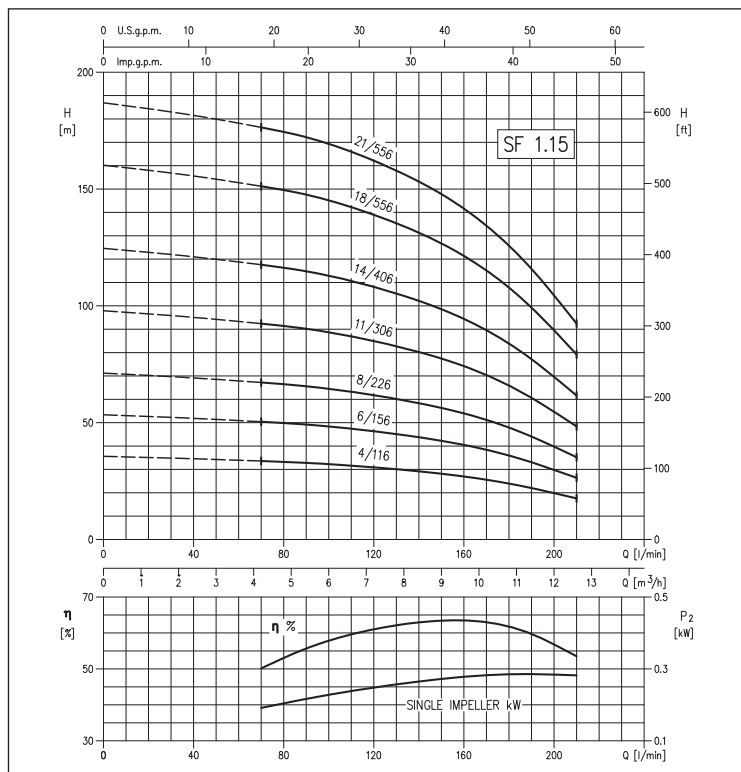
4BHS 4 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A) IMPELLER DIAMETER: 72 mm



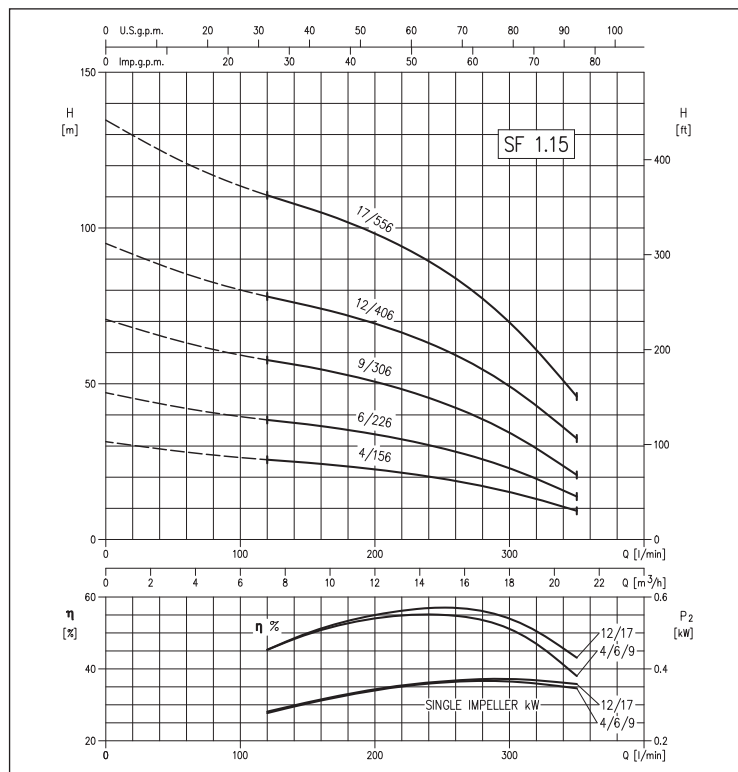
4BHS 7 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A) IMPELLER DIAMETER: 74 mm



4BHS 15 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A) IMPELLER DIAMETER: 72 mm



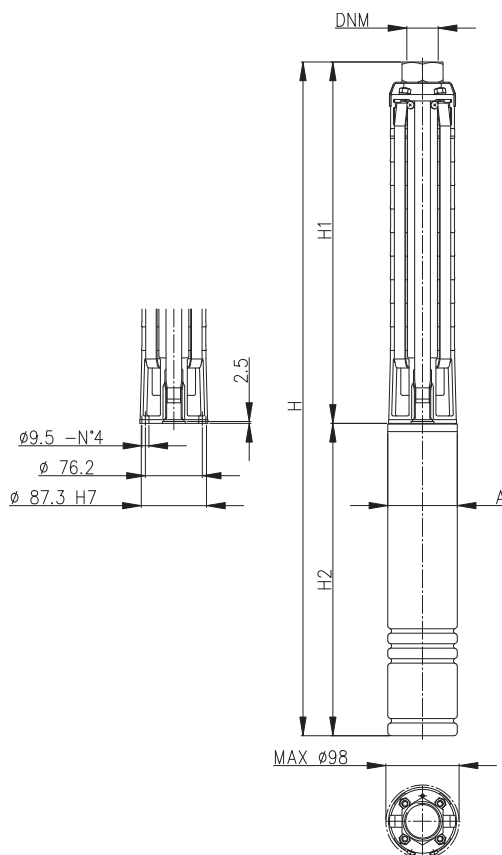
4" SUBMERSED CENTRIFUGAL PUMPS

in AISI 304

PERFORMANCE TABLE

Model		P ₂		Q=Flow rate													
Single phase	Three phase	[HP]	[kW]	l/min 18	25	35	50	60	70	90	120	150	180	210	250	300	350
				m ³ /h 1,1	1,5	2,1	3	3,6	4,2	5,4	7	9	11	12,6	15	18	21
				H=Head [m]													
4BHS/A2 10/56M	4BHS/A2 10/56	0,75	0,55	73,5	68,5	60,5	45,0	32,0	-	-	-	-	-	-	-	-	-
4BHS/A2 13/76M	4BHS/A2 13/76	1	0,75	95,5	89,0	78,5	59,0	41,5	-	-	-	-	-	-	-	-	-
4BHS/A2 18/116M	4BHS/A2 18/116	1,5	1,1	132,0	123,0	109,0	81,5	57,5	-	-	-	-	-	-	-	-	-
4BHS/A2 24/156M	4BHS/A2 24/156	2	1,5	176,0	164,0	145,0	109,0	77,0	-	-	-	-	-	-	-	-	-
4BHS/A2 29/226M	4BHS/A2 29/226	3	2,2	213,0	198,0	175,0	131,0	93,0	-	-	-	-	-	-	-	-	-
4BHS/A2 35/226M	4BHS/A2 35/226	3	2,2	257,0	239,0	211,0	158,0	112,0	-	-	-	-	-	-	-	-	-
4BHS/A4 7/76M	4BHS/A4 7/76	1	0,75	-	-	54,5	51,5	49,5	47,0	39,6	21,7	-	-	-	-	-	-
4BHS/A4 10/116M	4BHS/A4 10/116	1,5	1,1	-	-	78,0	74,0	71,0	67,5	56,5	31,0	-	-	-	-	-	-
4BHS/A4 13/156M	4BHS/A4 13/156	2	1,5	-	-	101,0	96,0	92,0	87,5	73,5	40,5	-	-	-	-	-	-
4BHS/A4 19/226M	4BHS/A4 19/226	3	2,2	-	-	148,0	140,0	135,0	128,0	107,0	59,0	-	-	-	-	-	-
-	4BHS/A4 23/306	4	3	-	-	179,0	170,0	163,0	155,0	130,0	71,5	-	-	-	-	-	-
-	4BHS/A4 26/306	4	3	-	-	203,0	192,0	184,0	175,0	147,0	80,5	-	-	-	-	-	-
-	4BHS/A4 34/406	5,5	4	-	-	265,0	251,0	241,0	229,0	192,0	105,0	-	-	-	-	-	-
4BHS/A7 4/116M	4BHS/A7 4/116	1,5	1,1	-	-	-	-	-	33,6	32,8	30,9	28,2	24,0	17,6	-	-	-
4BHS/A7 6/156M	4BHS/A7 6/156	2	1,5	-	-	-	-	-	50,5	49,0	46,5	42,0	35,9	26,4	-	-	-
4BHS/A7 8/226M	4BHS/A7 8/226	3	2,2	-	-	-	-	-	67,0	65,5	62,0	56,5	48,0	35,2	-	-	-
-	4BHS/A7 11/306	4	3	-	-	-	-	-	92,5	90,0	85,0	77,5	66,0	48,5	-	-	-
-	4BHS/A7 14/406	5,5	4	-	-	-	-	-	118,0	115,0	108,0	98,5	84,0	61,5	-	-	-
-	4BHS/A7 18/556	7,5	5,5	-	-	-	-	-	151,0	148,0	139,0	127,0	108,0	79,0	-	-	-
-	4BHS/A7 21/556	7,5	5,5	-	-	-	-	-	176,0	172,0	162,0	148,0	126,0	92,5	-	-	-
4BHS/A15 4/156M	4BHS/A15 4/156	2	1,5	-	-	-	-	-	-	-	25,6	24,6	23,4	22,0	19,5	15,2	9,2
4BHS/A15 6/226M	4BHS/A15 6/226	3	2,2	-	-	-	-	-	-	-	38,4	37,0	35,2	33,0	29,3	22,9	13,8
-	4BHS/A15 9/306	4	3	-	-	-	-	-	-	-	57,5	55,5	52,5	49,5	44,0	34,3	20,7
-	4BHS/A15 12/406	5,5	4	-	-	-	-	-	-	-	78,0	75,0	72,0	68,0	61,0	49,0	32,4
-	4BHS/A15 17/556	7,5	5,5	-	-	-	-	-	-	-	111,0	106,0	102,0	96,0	86,5	69,5	46,0

DIMENSIONS



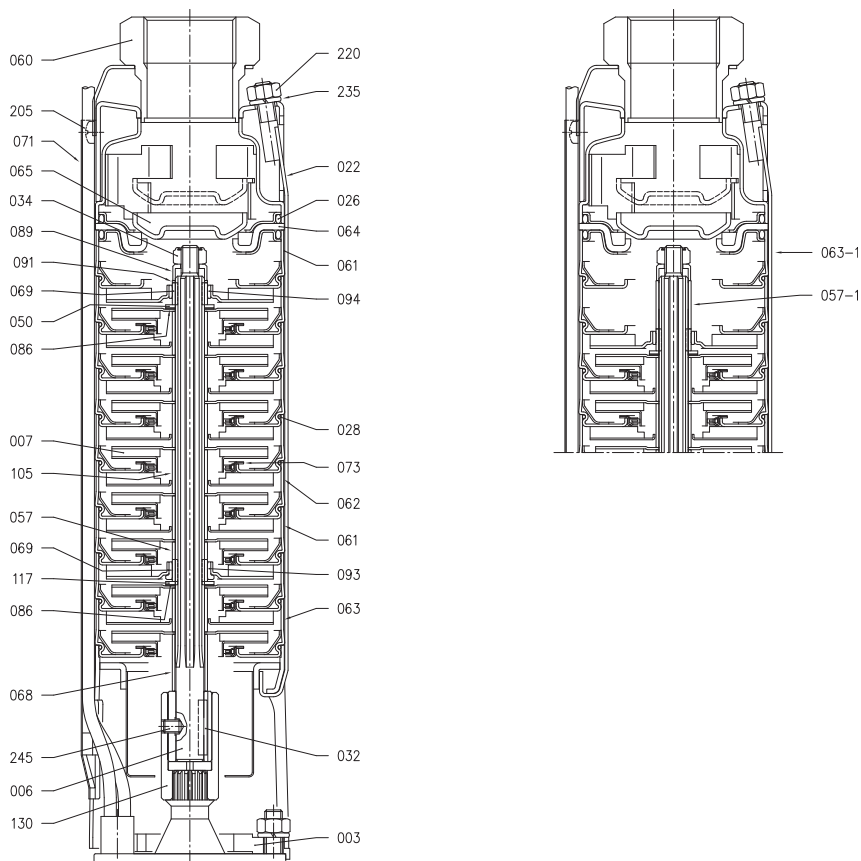
4" SUBMERSED CENTRIFUGAL PUMPS

in AISI 304

DIMENSIONAL TABLE

Model	P ₂		Pump without motor		Pump with oil filled motor						Pump with water filled motor					
	[HP]	[kW]	H1 [mm]	DNM	Single phase			Three phase			Single phase			Three phase		
					A [mm]	H2 [mm]	H [mm]	A [mm]	H2 [mm]	H [mm]	A [mm]	H2 [mm]	H [mm]	A [mm]	H2 [mm]	H [mm]
4BHS/A2 10/56	0,75	0,55	426	G1¼	97	325	748	97	325	748	91	296	719	91	276	699
4BHS/A2 13/76	1	0,75	489	G1¼	97	350	836	97	325	811	91	326	812	91	296	782
4BHS/A2 18/116	1,5	1,1	594	G1¼	97	385	976	97	350	941	91	360	951	91	326	917
4BHS/A2 24/156	2	1,5	720	G1¼	97	420	1137	97	385	1102	91	411	1128	91	360	1077
4BHS/A2 29/226	3	2,2	825	G1¼	97	520	1342	97	466	1288	91	486	1308	91	411	1233
4BHS/A2 35/226	3	2,2	972	G1¼	97	520	1489	97	466	1435	91	486	1455	91	411	1380
4BHS/A4 7/76	1	0,75	368	G1½	97	350	715	97	325	690	91	326	691	91	296	661
4BHS/A4 10/116	1,5	1,1	431	G1½	97	385	813	97	350	778	91	360	788	91	326	754
4BHS/A4 13/156	2	1,5	494	G1½	97	420	911	97	385	876	91	411	902	91	360	851
4BHS/A4 19/226	3	2,2	641	G1½	97	520	1158	97	466	1104	91	486	1124	91	411	1049
4BHS/A4 23/306	4	3	725	G1½	97	-	-	97	544	1266	91	-	-	91	516	1238
4BHS/A4 26/306	4	3	788	G1½	97	-	-	97	544	1329	91	-	-	91	516	1301
4BHS/A4 34/406	5,5	4	977	G1½	97	-	-	97	574	1548	91	-	-	91	556	1530
4BHS/A7 4/116	1,5	1,1	373	G2	97	385	755,5	97	350	720,5	91	360	730,5	91	326	696,5
4BHS/A7 6/156	2	1,5	468	G2	97	420	885	97	385	850	91	411	876	91	360	825
4BHS/A7 8/226	3	2,2	562	G2	97	520	1079,5	97	466	1025,5	91	486	1045,5	91	411	970,5
4BHS/A7 11/306	4	3	625	G2	97	-	-	97	544	1166,5	91	-	-	91	516	1138,5
4BHS/A7 14/406	5,5	4	688	G2	97	-	-	97	574	1259,5	91	-	-	91	556	1241,5
4BHS/A7 18/556	7,5	5,5	814	G2	97	-	-	97	644	1455,5	91	-	-	91	676	1487,5
4BHS/A7 21/556	7,5	5,5	972	G2	97	-	-	97	644	1613	91	-	-	91	676	1645
4BHS/A15 4/156	2	1,5	426	G2	97	420	843	97	385	808	91	411	834	91	360	783
4BHS/A15 6/226	3	2,2	552	G2	97	520	1069	97	466	1015	91	486	1035	91	411	960
4BHS/A15 9/306	4	3	678	G2	97	-	-	97	544	1219	91	-	-	91	516	1191
4BHS/A15 12/406	5,5	4	804	G2	97	-	-	97	574	1375	91	-	-	91	556	1357
4BHS/A15 17/556	7,5	5,5	972	G2	97	-	-	97	644	1613	91	-	-	91	676	1645

SECTIONAL VIEW



4" SUBMERSED CENTRIFUGAL PUMPS

in AISI 304

MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
003	Bracket	EN 1.4301 (AISI 304)	068	Spacer	EN 1.4301 (AISI 304)
006	Pump shaft	EN 1.4401 (AISI 316)	069	Shaft sleeve	Tungsten Carbide
007	Impeller	EN 1.4301 (AISI 304)	071	Cable cover	EN 1.4301 (AISI 304)
022	Tie-rod	EN 1.4301 (AISI 304)	073	Liner ring	EN 1.4301 (AISI 304) + EPDM
026	O-Ring	NBR	086	Spacer	EN 1.4301 (AISI 304)
028	O-Ring	NBR	089	Washer	EN 1.4301 (AISI 304)
032	Key	EN 1.4401 (AISI 316)	091	Spacer	EN 1.4301 (AISI 304)
034	Impeller nut self locking	A2-70 UNI EN ISO 3506-1 with EN 1.4301 (AISI 304) insert	093	Axial bearing	Tungsten Carbide
050	Washer	EN 1.4301 (AISI 304)	094	Radial bearing	Tungsten Carbide
057	Bearing spacer	EN 1.4301 (AISI 304)	105	Spacer	EN 1.4301 (AISI 304)
057-1	Spacer	EN 1.4301 (AISI 304)	117	Friction ring	Tungsten Carbide
060	Discharge casing	EN 1.4301 (AISI 304)	130	Coupling	EN 1.4301 (AISI 304)
061	Intermediate casing bearing	EN 1.4301 (AISI 304)	205	Screw	EN 1.4301 (AISI 304)
062	Intermediate casing	EN 1.4301 (AISI 304)	220	Nut	EN 1.4301 (AISI 304)
063	Suction casing	EN 1.4301 (AISI 304)	235	Washer	EN 1.4301 (AISI 304)
064	Valve seat	EN 1.4301 (AISI 304) + NBR	245	Set of screws	EN 1.4301 (AISI 304)
065	Valve	EN 1.4301 (AISI 304)			

ELECTRIC DATA TABLE 4BHS WITH OIL FILLED MOTOR

P ₂		S.F.	Single phase - 220V						Single phase - 230V					
[HP]	[kW]		P ₁ [kW]	I _N [A]	I _A [A]	I _{max} [A]	Power factor		P ₁ [kW]	I _N [A]	I _A [A]	I _{max} [A]	Power factor	
0,75	0,55	1,5	0,97	4,6	13,6	6,6	0,96		1,06	4,8	13,6	6,6	0,96	
1	0,75	1,4	1,20	5,8	18,5	7,6	0,94		1,34	6,2	18,5	7,6	0,94	
1,5	1,1	1,3	1,49	7,2	26	9,6	0,94		1,66	7,7	26	9,6	0,94	
2	1,5	1,25	2,29	10,6	34	12,4	0,98		2,43	10,8	34	12,4	0,98	
3	2,2	1,15	3,26	15,6	48	16,8	0,95		3,54	16,2	48	16,8	0,95	

P ₂		S.F.	Three phase - 380V						Three phase - 460V					
[HP]	[kW]		P ₁ [kW]	I _N [A]	I _A [A]	I _{max} [A]	Power factor		P ₁ [kW]	I _N [A]	I _A [A]	I _{max} [A]	Power factor	
0,75	0,55	1,5	0,90	1,9	7	2,4	0,72		1,03	1,8	8	2,1	0,72	
1	0,75	1,4	1,28	2,7	10	3,1	0,72		1,32	2,3	10	2,6	0,72	
1,5	1,1	1,3	1,68	3,6	14	4,0	0,71		1,89	3,3	15	3,4	0,72	
2	1,5	1,25	2,14	4,4	17	5,1	0,74		2,41	4,2	22	4,6	0,72	
3	2,2	1,15	3,02	6,2	24	6,8	0,74		3,42	5,8	25	6,5	0,74	
4	3	1,15	4,20	8,5	34	9,4	0,75		4,30	7,2	39	8,2	0,75	
5,5	4	1,15	5,13	10,4	47	11,6	0,75		6,10	10,2	48	11,4	0,75	
7,5	5,5	1,15	6,95	13,9	58	15,4	0,76		7,64	13,5	64	14,6	0,71	
10	7,5	1,15	10	19,5	72	20,5	0,78		11,35	18,5	76	20,6	0,77	

ELECTRIC DATA TABLE 4BHS WITH WATER FILLED MOTOR

P ₂		S.F.	Single phase - 230V			
[HP]	[kW]		P ₁ [kW]	I _N [A]	I _A [A]	Power factor
0,75	0,55	1,5	1,36	8	34,2	0,74
1	0,75	1,4	1,67	9,8	41,8	0,74
1,5	1,1	1,3	2,17	11,5	52	0,82
2	1,5	1,25	2,88	13,2	51	0,95
3	2,2	1,15	3,79	17	82	0,97

P ₂		S.F.	Three phase - 380V				Three phase - 460V			
[HP]	[kW]		P ₁ [kW]	I _N [A]	I _A [A]	Power factor	P ₁ [kW]	I _N [A]	I _A [A]	Power factor
0,75	0,55	1,5	1,20	2,3	11,9	0,79	1,20	1,9	9,8	0,79
1	0,75	1,4	1,46	2,7	13,3	0,82	1,50	2,3	11	0,82
1,5	1,1	1,3	1,94	3,6	19,5	0,82	1,96	3	16,1	0,82
2	1,5	1,25	2,47	4,7	24,7	0,80	2,49	3,9	20,4	0,80
3	2,2	1,15	3,34	6,5	34,7	0,78	3,36	5,4	28,7	0,78
4	3	1,15	4,58	8,8	48,1	0,79	4,53	7,2	39,7	0,79
5,5	4	1,15	6,08	11,7	68,8	0,79	6,11	9,7	56,8	0,79
7,5	5,5	1,15	8,19	15	85,9	0,83	8,20	12,4	71	0,83
10	7,5	1,15	11	20,3	121	0,83	11,1	16,8	100	0,83

4" SUBMERSED CENTRIFUGAL PUMPS

in AISI 304

OIL FILLED MOTORS CABLE SELECTION

CABLE SELECTION

example: 0,75 kW motor - 220-230V - cable lenght 75 m → 4x2,5 mm²

Single phase (220-230V)

HP	P ₂	kW	Cable type and maximum lenght (*)							
			4x1	4x1,5	4x2	4x2,5	4x4	4x6	4x10	4x16
0,75		0,55	38	57	76	95	152	-	-	-
1		0,75	30	45	60	75	120	174	-	-
1,5		1,1	22	33	43	53	85	127	210	-
2		1,5	-	23	31	38	63	92	154	246
3		2,2	-	-	22	28	45	67	112	180

Three phase (380-460V)

HP	P ₂	kW	Cable type and maximum lenght (*)							
			4x1	4x1,5	4x2	4x2,5	4x4	4x6	4x10	4x16
0,75		0,55	164	246	328	-	-	-	-	-
1		0,75	133	200	266	333	-	-	-	-
1,5		1,1	97	146	195	244	390	-	-	-
2		1,5	72	109	145	180	290	435	-	-
3		2,2	51	78	103	130	207	310	516	-
4		3	41	62	83	104	167	250	416	-
5,5		4	31	46	62	77	124	186	310	496
7,5		5,5	-	33	45	56	90	135	225	360

WATER FILLED MOTORS CABLE SELECTION

CABLE SELECTION

example: 0,75 kW motor - 230V - cable lenght 73 m → 4x2,5 mm²

Single phase (230V)

HP	P ₂	kW	Cable type and maximum lenght (*)							
			4x1	4x1,5	4x2	4x2,5	4x4	4x6	4x10	4x16
0,75		0,55	39	58	77	97	155	-	-	-
1		0,75	29	44	58	73	117	175	-	-
1,5		1,1	20	30	40	50	79	119	198	-
2		1,5	-	23	31	39	62	93	156	249
3		2,2	-	-	23	28	45	68	113	181

Three phase (380-460V)

HP	P ₂	kW	Cable type and maximum lenght (*)							
			4x1	4x1,5	4x2	4x2,5	4x4	4x6	4x10	4x16
0,75		0,55	223	335	446	-	-	-	-	-
1		0,75	167	251	335	418	-	-	-	-
1,5		1,1	120	179	239	299	478	-	-	-
2		1,5	86	129	172	215	343	515	-	-
3		2,2	61	91	122	152	243	365	609	-
4		3	45	67	89	112	179	268	446	-
5,5		4	34	51	68	85	135	203	338	541
7,5		5,5	-	40	53	66	106	159	266	425

(*) Maximum cable lenght with a voltage drop of 3% at 30°C ambient temperature.

If the operating voltage U_i in the installation is different from the nominal voltage U_n, it is possible to calculate the permissible maximum length L_{max}, with the given table lenght L_{tab}, with the following formula:

$$L_{max} = L_{tab} (U_i / U_n)^2$$

SPECIFIC PERFORMANCE

The specifications given refer to the curves illustrated in our catalogues and Data Book (see www.ebara.eu). All of the performance curves are calculated according to ISO 9906 Attachment A.

Tolerance according to ISO 9906 Annex A.

The curves refer to an effective speed of the 60 Hz asynchronous motors.

The measurements are made with water temperature of 20°C and cinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt).

In order to prevent the risk of overheating, the pumps must not be used at a flow rate below 10% of the maximum efficiency flow rate.

During selection of the pumps, there is a safety margin of at least 1 m.

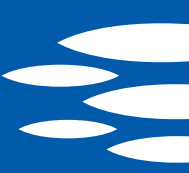
Symbols: Q = Flow rate [m^3/h]

H = Head [m]

P₁ = Power absorbed by the electric line

P₂ = Power yielded to the motor axis (power absorbed by the pump)





This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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