



VS 4" SERIES 50Hz

SUBMERSIBLE PUMPS FOR 4" DEEP WELLS OR LARGER



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NOTE: Franklin Electric S.r.l. reserves the right to amend specification without prior notice

For the most up-to-date product information, visit franklinwater.eu.



SUBMERSIBLE PUMPS FOR 4" DEEP WELLS OR LARGER

APPLICATION

- Municipal water works, fountains and waste water
- Water distribution and pressure boosting
- Irrigation and sprinkler systems, water treatment plants, filtration and reverse osmosis
- Industrial cooling and processing
- Mining industry, drainage and dewatering
- Fire-fighting equipment
- Water supply to and from tanks, reservoir and wells
- Lifting and distribution of a wide range of liquids
- Autoclave and cistern charge and discharge
- Turf and landscape
- Greenhouses and nurseries
- Residential and farm wells and drainage
- Food industry
- General industry

FEATURES

- Compact, reliable and suited to operate in horizontal position
- Built-in check valve to protect the pump against water hammer risk
- Floating impellers to grant a better performance and longer life for the pump against abrasion
- The hydraulic design is such to enhance the overall efficiency thus reducing energy consumption and making the pumping systems more cost effective

PUMP SPECIFICATION

- Flow: up to 24 m³/h at 50 Hz
- Head: up to 278 m at 50Hz
- Pumped liquid: chemically and mechanically non aggressive
- Water temperature range: from 0°C to 40°C
- Maximum allowable amount of sand 100 gr/m³, solid dimension max 2 mm
- Maximum pump diameter (including cable guard): 95 mm
- Outlet diameter: 1" ¼ for VS 1-2-3-4, 2" for VS 6-7-8-10-15
- Rotation: counter clockwise when looking into the discharge
- Pump can work continuously in vertical or horizontal position

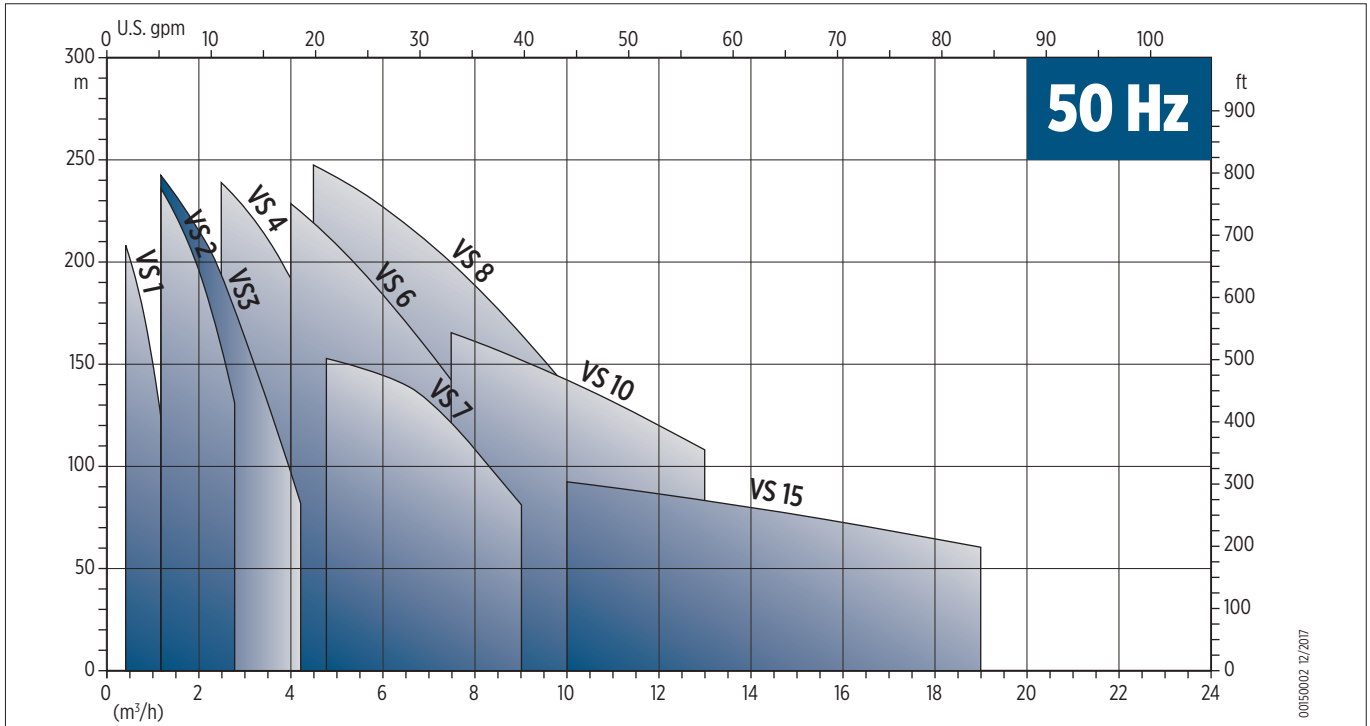
MOTOR SPECIFICATION

- Motor adapter in compliance with NEMA standard
- For more information consult the product catalog of Submersible motors

AVAILABLE ON REQUEST

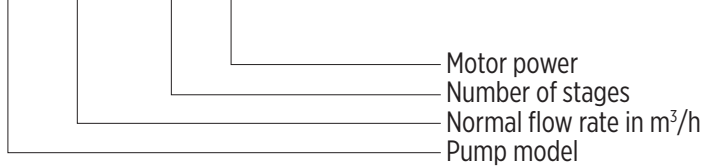
- Cooling shroud

FAMILY CURVES



PUMP IDENTIFICATION CODE

VS 10 / 14



00140002ER 06/2017

TABLES OF HYDRAULIC PERFORMANCE AT 50 Hz

VS1-2-3

Pump model	RATED POWER		Q = DELIVERY													
			m ³ /h 0	0.4	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.8	3.0	3.3	3.6	4.2
	[kW]	[HP]	l/sec 0	0.11	0.17	0.25	0.33	0.42	0.50	0.58	0.67	0.78	0.83	0.92	1.0	1.17
H = TOTAL M.HEAD OF WATER COLUMN [m]																
VS1/10	0.37	0.5	68	56	53	45	35	18								
VS1/13	0.37	0.5	83	68	64	54	39	20								
VS1/19	0.55	0.75	118	100	94	80	57	30								
VS1/26	0.75	1	156	136	126	105	75	41								
VS1/38	1.1	1.5	241	209	193	162	117	63								
VS2/5	0.37	0.5	34				30	29	27	25	22	17	14	10		
VS2/7	0.37	0.5	47				43	40	37	35	30	24	20	14		
VS2/10	0.55	0.75	67				60	57	54	49	43	34	28	20		
VS2/14	0.75	1	94				85	80	75	68	60	46	39	27		
VS2/20	1.1	1.5	133				120	114	107	97	86	66	56	40		
VS2/27	1.5	2	189				164	154	145	132	115	90	75	53		
VS2/39	2.2	3	259				235	222	209	190	167	130	110	75		
VS3/4	0.37	0.5	28					25	24	23	22	20	19	17	15	10
VS3/7	0.55	0.75	48					42	40	39	36	33	30	28	24	16
VS3/10	0.75	1	70					62	59	56	52	48	44	39	34	23
VS3/15	1.1	2	104					92	88	83	78	72	65	58	51	34
VS3/20	1.5	2	140					124	119	112	105	97	87	77	66	43
VS3/30	2.2	3	205					183	175	164	154	142	128	113	98	65
VS3/37	3	4	257					232	222	210	194	179	161	143	123	82



VS 4-6-7

Pump model	RATED POWER		Q = DELIVERY														
			m ³ /h 0	2.5	2.7	3.0	3.3	3.6	4.2	4.8	5.5	6.0	7.0	7.2	8.0	9.0	
	[kW]	[HP]	l/sec 0	0.7	0.75	0.83	0.92	1.00	1.17	1.33	1.53	1.67	1.94	2.00	2.22	2.5	
			H = TOTAL M.HEAD OF WATER COLUMN [m]														
VS 4/4	0.37	0.5	25	22	21	20	20	19	17	14	11	8					
VS 4/7	0.55	0.75	45	39	27	36	35	34	29	25	19	14					
VS 4/10	0.75	1	64	55	54	52	49	47	42	35	26	19					
VS 4/14	1.1	1.5	89	77	75	72	68	65	59	50	37	26					
VS 4/18	1.5	2	114	98	95	93	88	85	80	64	49	34					
VS 4/27	2.2	3	170	146	145	139	133	127	114	95	73	50					
VS 4/32	3	4	222	174	170	165	157	150	135	113	86	60					
VS 4/40	3.7	5	252	216	223	212	196	189	166	141	107	75					
VS 4/44	4	5.5	278	240	235	226	217	207	185	155	116	83					
VS 6/6	0.75	1	36						32	30	28	26	23	22	18	14	
VS 6/9	1.1	1.5	53						47	44	41	39	33	32	25	17	
VS 6/13	1.5	2	77						70	66	63	60	52	50	43	32	
VS 6/19	2.2	3	110						100	95	90	85	74	72	60	41	
VS 6/26	3	4	150						134	126	120	110	94	90	73	49	
VS 6/31	3.7	5	185						165	155	146	136	115	110	90	59	
VS 6/34	4	5.5	200						178	165	155	145	123	118	95	64	
VS 6/45	5.5	7.5	269						239	223	208	191	160	155	128	94	
VS 7/8	0.75	1	36							30	28	26	25	24	21	16	
VS 7/11	1.1	1.5	50							41	39	38	35	34	29	21	
VS 7/16	1.5	2	72							57	55	53	49	48	41	30	
VS 7/24	2.2	3	105							83	82	79	72	70	59	43	
VS 7/32	3	4	140							111	110	105	97	93	80	58	
VS 7/40	3.7	5	176							142	137	135	124	120	103	77	
VS 7/44	4	5.5	189							153	151	144	132	128	109	82	

VS 8-10-15

Pump model	RATED POWER		Q = DELIVERY																					
			m ³ /h 0	4.5	5.4	6.0	7.0	7.5	8.0	8.4	9.0	9.6	10	11.0	12.0	13.0	14.5	15	16	17	18	19	24	
	[kW]	[HP]	l/sec 0	1.25	1.50	1.67	1.94	2.09	2.22	2.33	2.50	2.67	2.78	3.05	3.33	3.61	4.03	4.2	4.4	4.7	5.0	5.3	6.66	
			H = TOTAL M.HEAD OF WATER COLUMN [m]																					
VS 8/4	0.75	1	25	29	23	22	20	19	18	17	15	14	12	10										
VS 8/6	1.1	1.5	38	36	35	33	31	30	27	26	24	21	19	15										
VS 8/9	1.5	2	57	54	50	49	46	45	40	39	35	32	28	23										
VS 8/14	2.2	3	88	84	78	75	70	68	62	60	54	48	43	34										
VS 8/18	3	4	113	107	101	92	90	87	80	75	70	61	55	45										
VS 8/23	4	5.5	153	140	131	126	117	114	105	100	91	82	75	60										
VS 8/32	5.5	7.5	250	190	179	173	160	155	145	140	127	117	106	88										
VS 8/42	7.5	10	277	251	237	227	210	203	189	181	165	150	135	114										
VS 10/5	1.1	1.5	30					24	24	23	22	21	20	18	16	14	10							
VS 10/7	1.5	2	42					34	33	33	31	30	28	27	23	20	16							
VS 10/11	2.2	3	64					52	51	50	47	45	43	39	35	30	23							
VS 10/14	3	4	82					67	66	65	61	58	56	52	45	40	30							
VS 10/18	4	5.5	107					92	89	87	83	80	77	70	63	55	45							
VS 10/25	5.5	7.5	150					126	124	121	117	112	108	100	91	82	66							
VS 10/32	7.5	10	194					165	160	157	152	145	140	139	120	108	89							
VS 15/8	2.2	3	46										35	33	32	30	27	26	26	25	23	21	10	
VS 15/10	3	4	58										43	41	40	38	30	34	33	30	29	27	13	
VS 15/12	4	5.5	69										52	50	48	45	42	41	39	37	35	32	15	
VS 15/16	5.5	7.5	92										69	66	63	60	56	55	52	49	46	43	20	
VS 15/21	7.5	10	121										91	87	84	80	74	72	68	64	60	56	27	

Technical Data and Performance Curves 50 Hz

According to COMMISSION REGULATION (EU) No 547/2012

MEI - Minimum Efficiency Index

In order to achieve a comparable efficiency threshold-value across all legally covered water pumps, an index of pump size, specific speed and rotational speed has been created: the MEI (Minimum Efficiency Index).

MEI covers best point (BEP), part load (PL) and overload (OL) efficiencies as water pumps may be chosen with safety margins and hence do not run at best efficiency point.

This ensures high and flat efficiency curves and consequently an efficient operation in real life.

MEI means the dimensionless scale unit for hydraulic pump efficiency at BEP, PL and OL.

MEI is a measure for the quality of a pump size in respect to the efficiency.

The higher the value of the MEI is, the better is the pump size in respect to efficiency and the lower is the yearly energy consumption if pumps of this size are installed.

The upper limit of values of the MEI is principally open and depends only on physical and technological constraints. MEI is based on the full impeller diameter.

The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system Benchmark $MEI \geq 0.70$.

For benchmark efficiency graphs, go to www.europump.org/efficiencycharts.

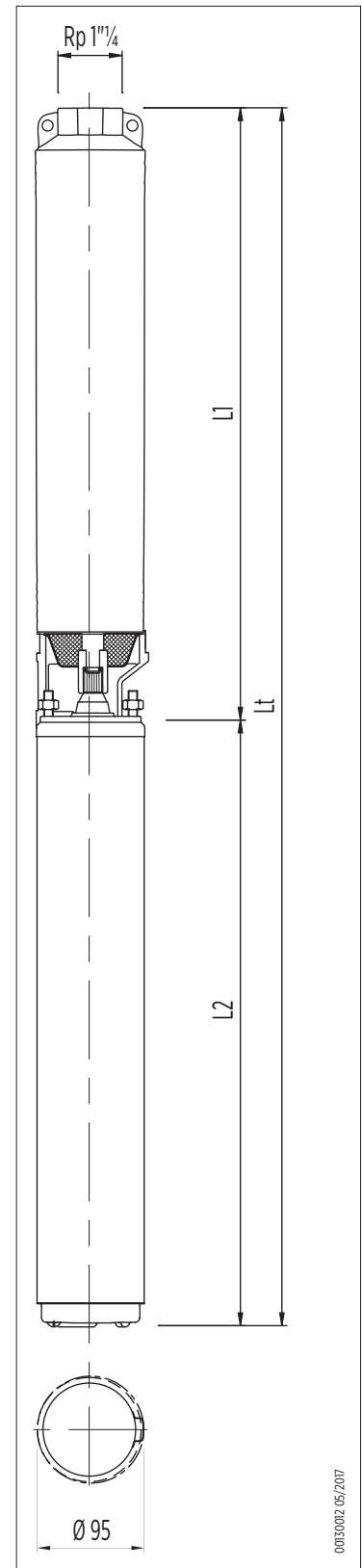
Information on benchmark efficiency is available at franklinwater.eu



VS 150Hz

TECHNICAL DATA - PUMPS WITH ENCAPSULATED MOTOR

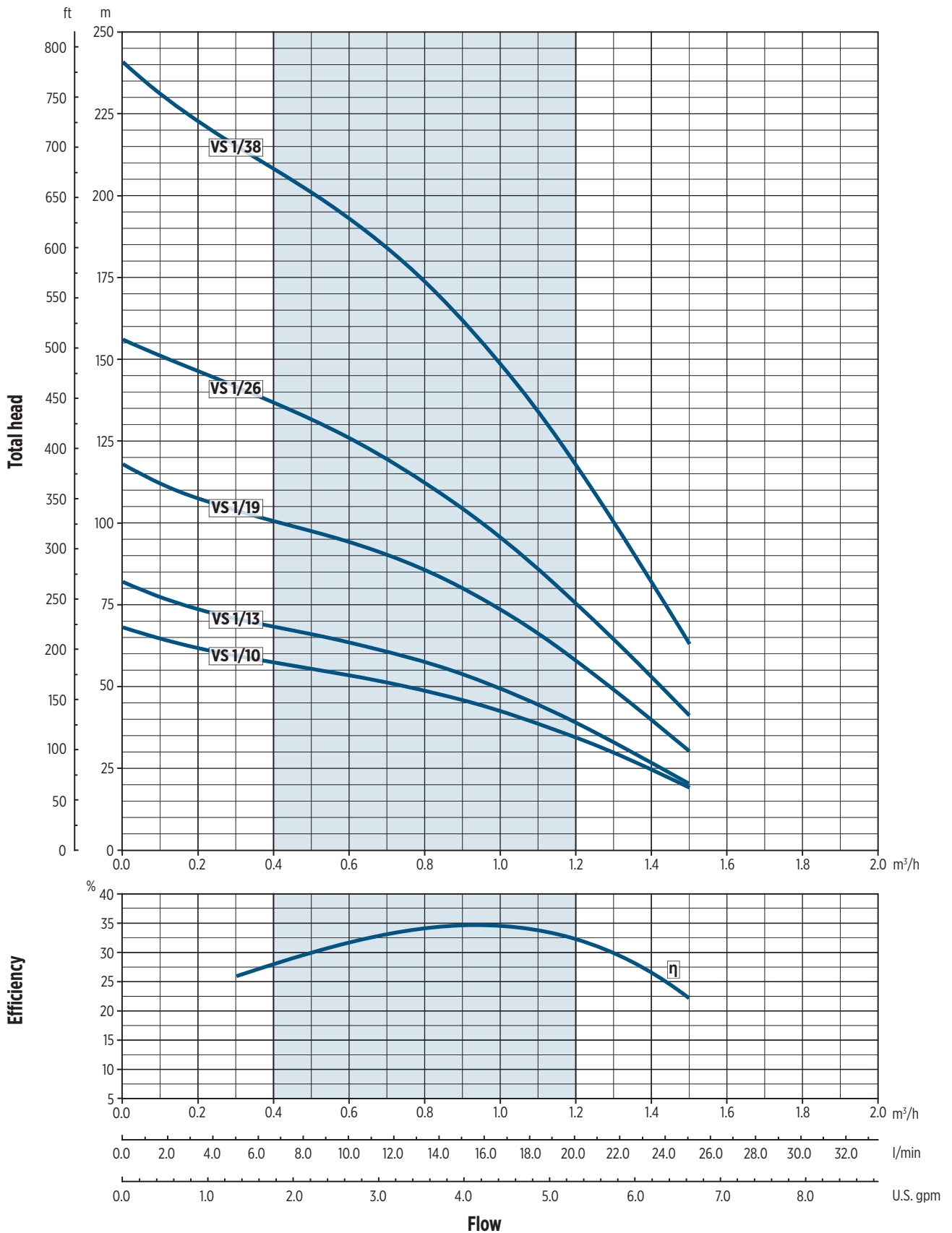
Pump model	Motor			Dimensions [mm]				Weight [Kg]					
	Type	[kW]	[HP]	L1	L2		Lt		Pump	Motor		Total	
					1-	3-	1-	3-		1-	3-	1-	3-
VS1/10	E4	0.37	0.5	368	228	214	596	582	4.0	7.8	7.2	11.8	11.2
VS1/13	E4	0.37	0.5	420	228	214	648	634	4.5	7.8	7.2	12.3	11.7
VS1/19	E4	0.55	0.75	528	248	228	776	756	5.6	8.7	7.7	16.4	13.3
VS1/26	E4	0.75	1.0	680	282	248	962	928	7.4	10.0	8.7	17.4	16.1
VS1/38	E4	1.1	1.5	921	338.5	282.5	1259.5	1203.5	10.0	12.6	10.2	22.6	20.2



0033007.05/2017

PERFORMANCE CURVES AT 50 Hz

MEI $\geq 0,40$



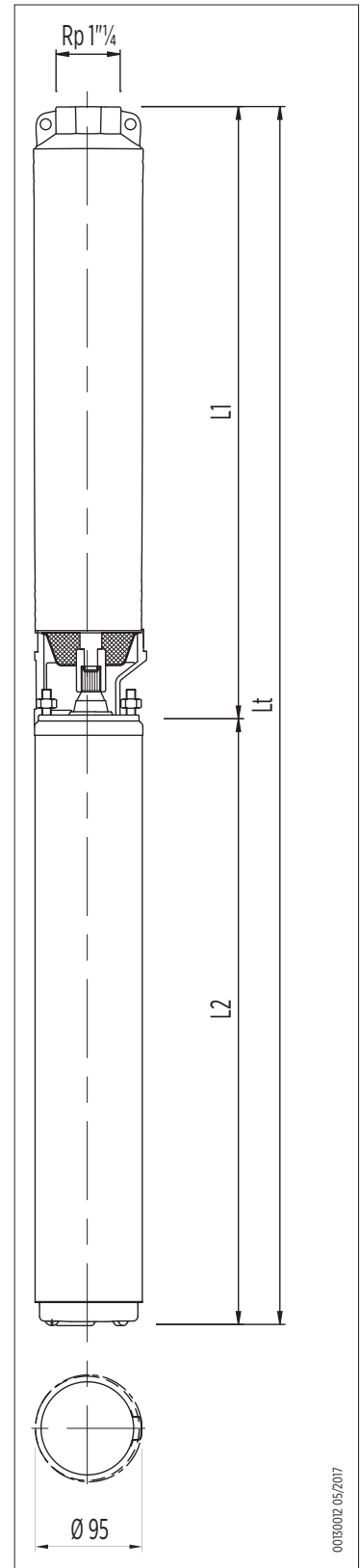
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VS 2 50Hz

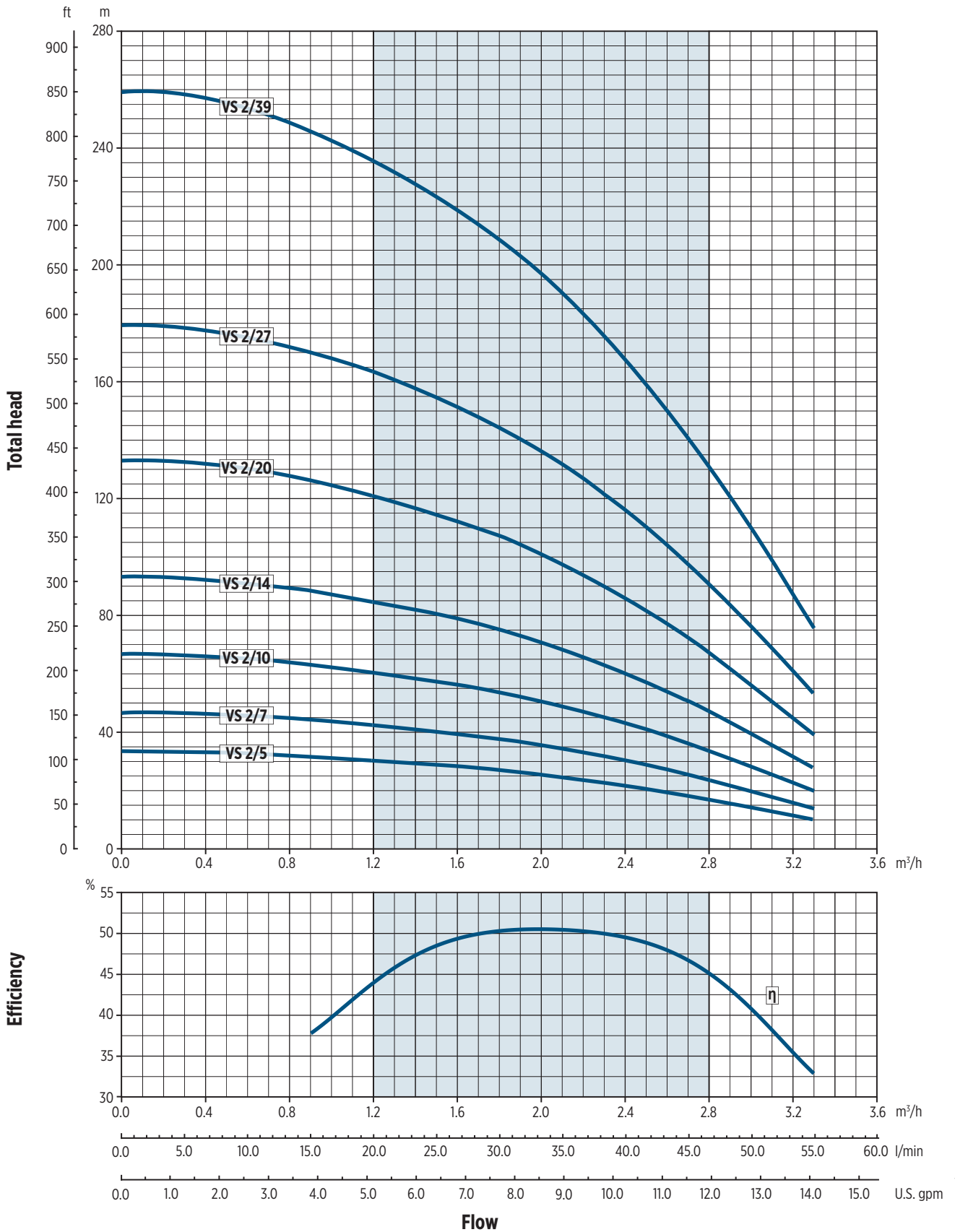
TECHNICAL DATA - PUMPS WITH ENCAPSULATED MOTOR

Pump model	Motor			Dimensions [mm]					Weight [Kg]				
	Type	[kW]	[HP]	L1	L2		Lt		Pump	Motor		Total	
					1-	3-	1-	3-		1-	3-	1-	3-
VS 2/5	E4	0.37	0.5	278	228	214	506	492	3.0	7.8	7.2	10.8	10.2
VS 2/7	E4	0.37	0.5	314	228	214	542	528	3.4	7.8	7.2	11.2	10.6
VS 2/10	E4	0.55	0.75	367	248	228	615	595	4.0	8.7	7.7	12.7	11.7
VS 2/14	E4	0.75	1	438	282.5	248	720.5	686	4.6	10.0	8.7	14.6	13.3
VS 2/20	E4	1.1	1.5	542	338.5	282.5	880.5	824.5	5.6	12.6	10.2	18.2	15.8
VS 2/27	E4	1.5	2	695	349.5	306.5	1044.5	1001.5	7.1	13.0	11.2	20.1	18.3
VS 2/39	E4	2.2	3	934	436.5	338.5	1370.5	1272.5	9.4	16.9	12.6	26.3	22.0



PERFORMANCE CURVES AT 50 Hz

MEI ≥ 0,40



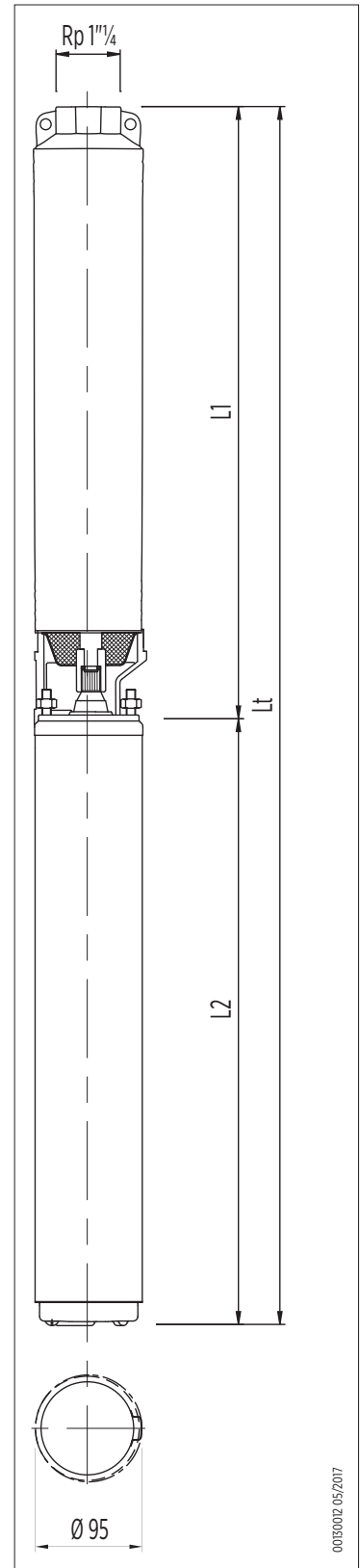
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



VS 3 50Hz

TECHNICAL DATA - PUMPS WITH ENCAPSULATED MOTOR

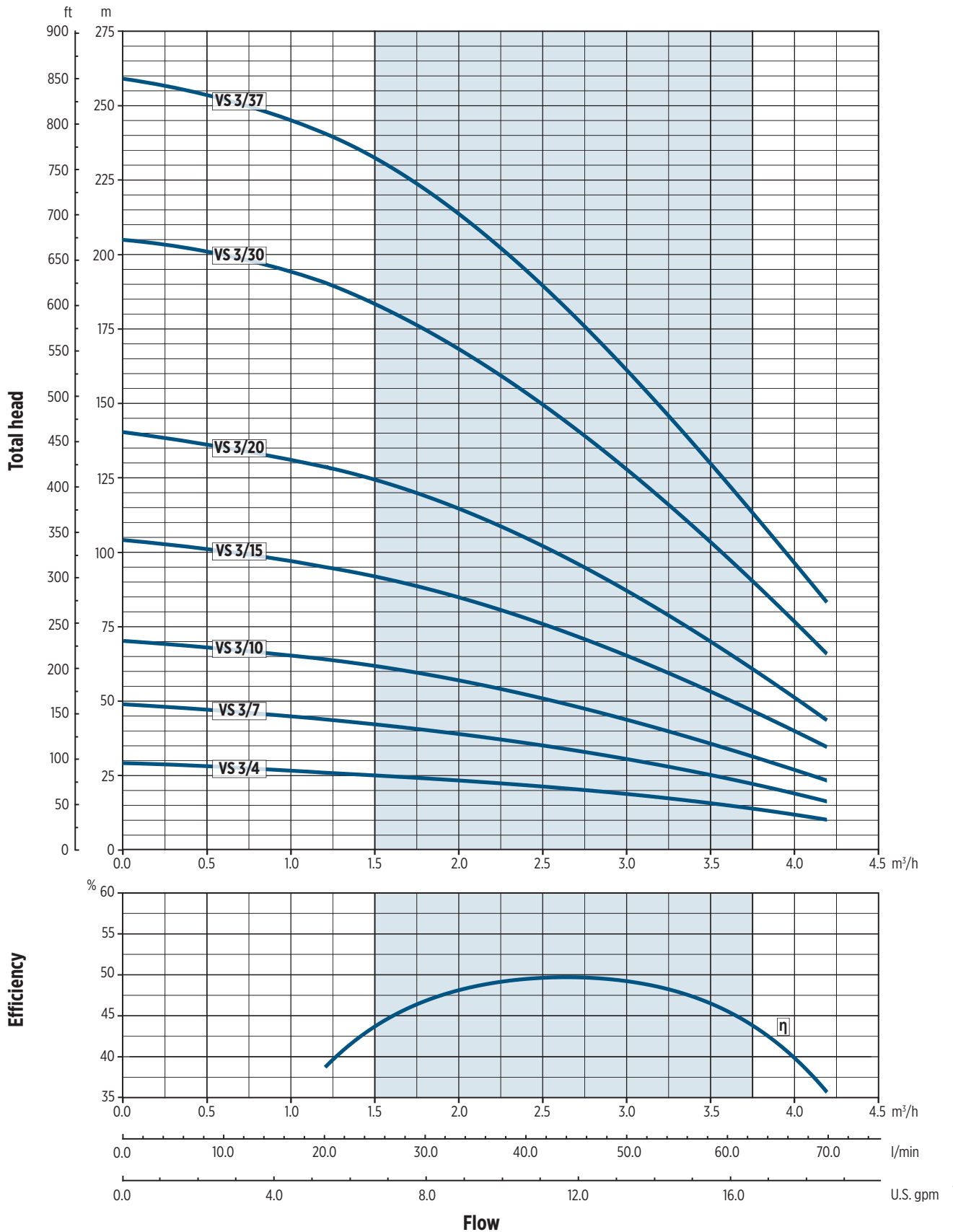
Pump model	Motor			Dimensions [mm]					Weight [Kg]				
	Type	[kW]	[HP]	L1	L2		Lt		Pump	Motor		Total	
					1-	3-	1-	3-		1-	3-	1-	3-
VS 3/4	E4	0.37	0.5	275	228	214	503	489	2.6	7.8	7.2	10.4	9.8
VS 3/7	E4	0.55	0.75	345	248	228	593	573	3.2	8.7	7.7	11.9	10.9
VS 3/10	E4	0.75	1	410	282.5	248	692.5	658	3.8	10.0	8.7	13.8	12.5
VS 3/15	E4	1.1	2	525	338.5	282.5	863.5	807.5	4.5	12.6	10.2	17.1	14.7
VS 3/20	E4	1.5	2	630	349.5	306.5	979.5	936.5	5.5	13.0	11.2	18.5	16.7
VS 3/30	E4	2.2	3	875	436.5	338.5	1311.5	1213.5	7.8	16.9	12.6	24.7	20.4
VS 3/37	E4	3	4	1065	-	393.5	-	1458.5	9.3	-	15.0	-	24.3



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PERFORMANCE CURVES AT 50 Hz

MEI ≥ 0,40



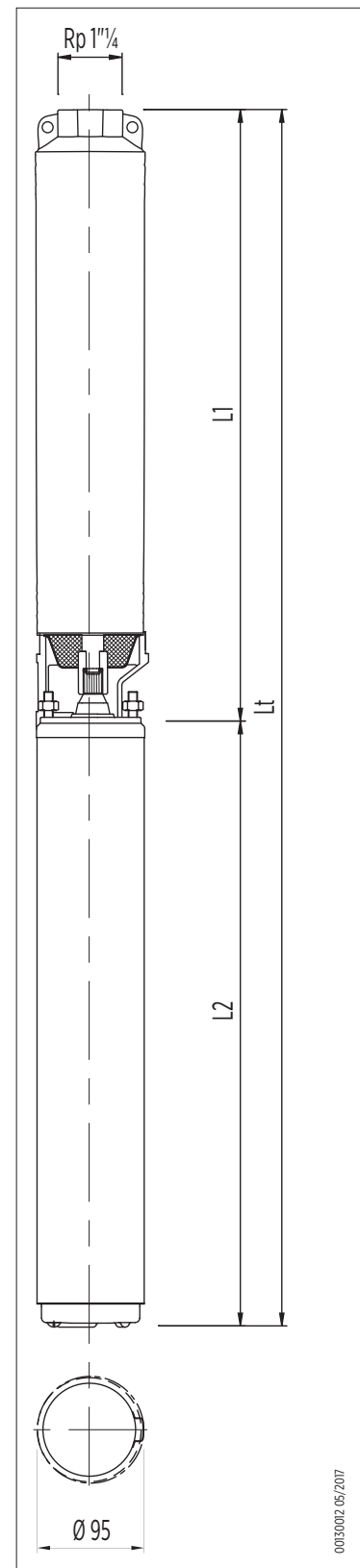
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



VS 4 50Hz

TECHNICAL DATA - PUMPS WITH ENCAPSULATED MOTOR

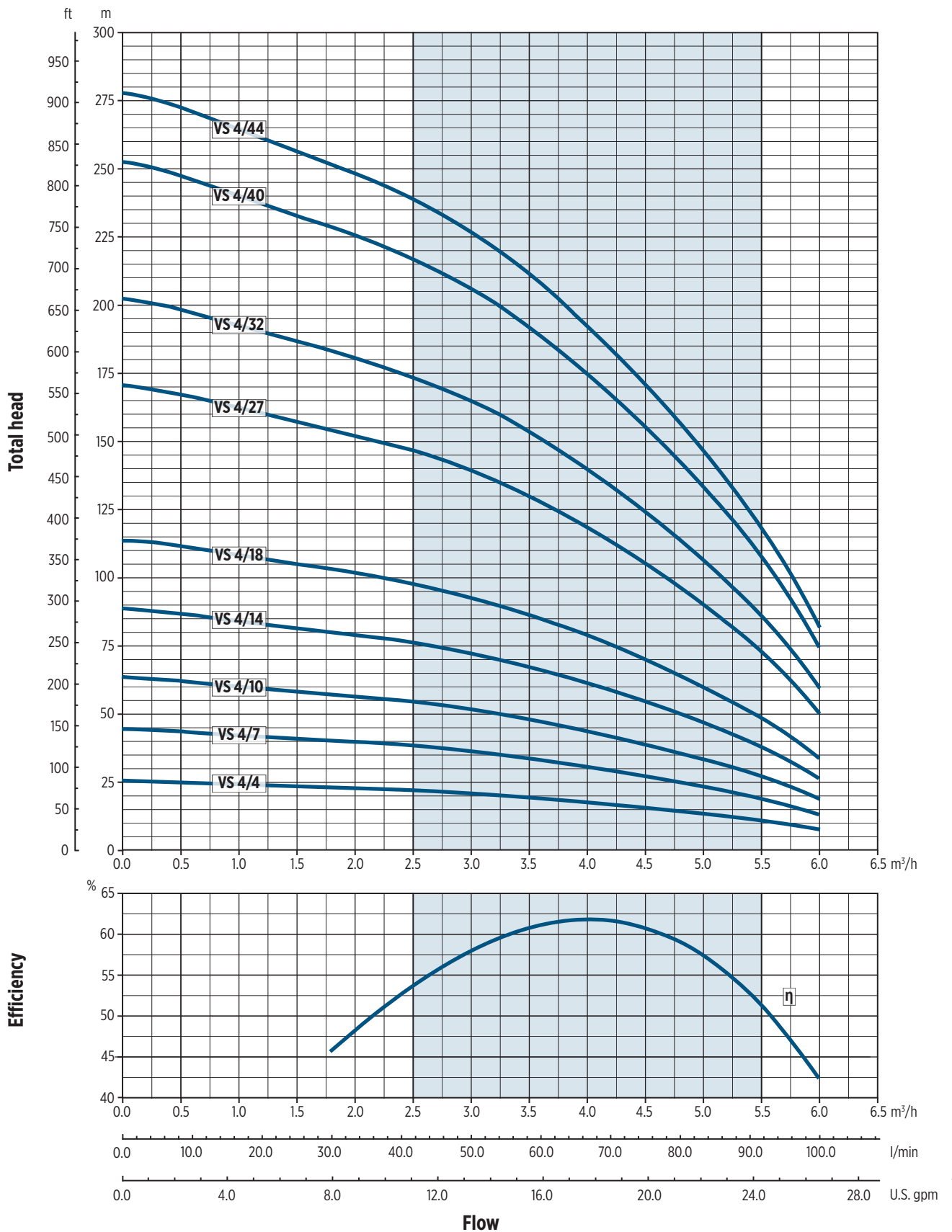
Pump model	Motor			Dimensions [mm]					Weight [Kg]				
	Type	[kW]	[HP]	L1	L2		Lt		Pump	Motor		Total	
					1-	3-	1-	3-		1-	3-	1-	3-
VS 4/4	E4	0.37	0.5	278	228	214	506	492	2.9	7.8	7.2	10.7	10.1
VS 4/7	E4	0.55	0.75	343	248	228	591	571	3.5	8.7	7.7	12.2	11.2
VS 4/10	E4	0.75	1	411	282.5	248	693.5	659	4.2	10.0	8.7	14.2	12.9
VS 4/14	E4	1.1	1.5	498	338.5	282.5	836.5	780.5	5.1	12.6	10.2	17.7	15.3
VS 4/18	E4	1.5	2	588	349.5	306.5	937.5	894.5	5.9	13.0	11.2	18.9	17.1
VS 4/27	E4	2.2	3	784	436.5	338.5	1220.5	1122.5	7.2	16.9	12.6	24.1	19.8
VS 4/32	E4	3	4	953	-	393.5	-	1346.5	9.2	-	15.0	-	24.2
VS 4/40	E4	3.7	5	1128	-	520	-	1648	10.5	-	19.1	-	29.6
VS 4/44	E4	4	5.5	1219	-	543	-	1762	11.8	-	20.0	-	31.8



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PERFORMANCE CURVES AT 50 Hz

MEI ≥ 0,40



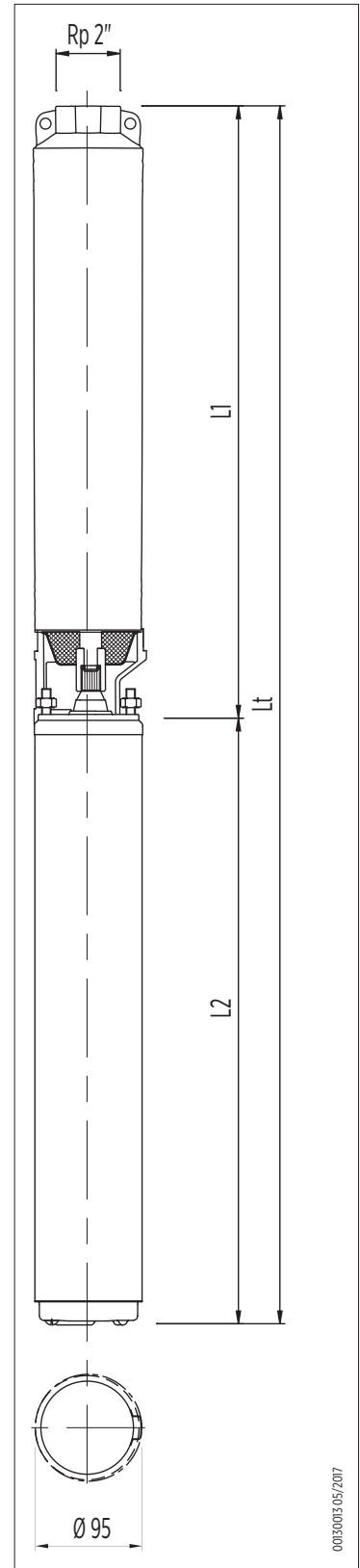
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VS 6 50Hz

TECHNICAL DATA - PUMPS WITH ENCAPSULATED MOTOR

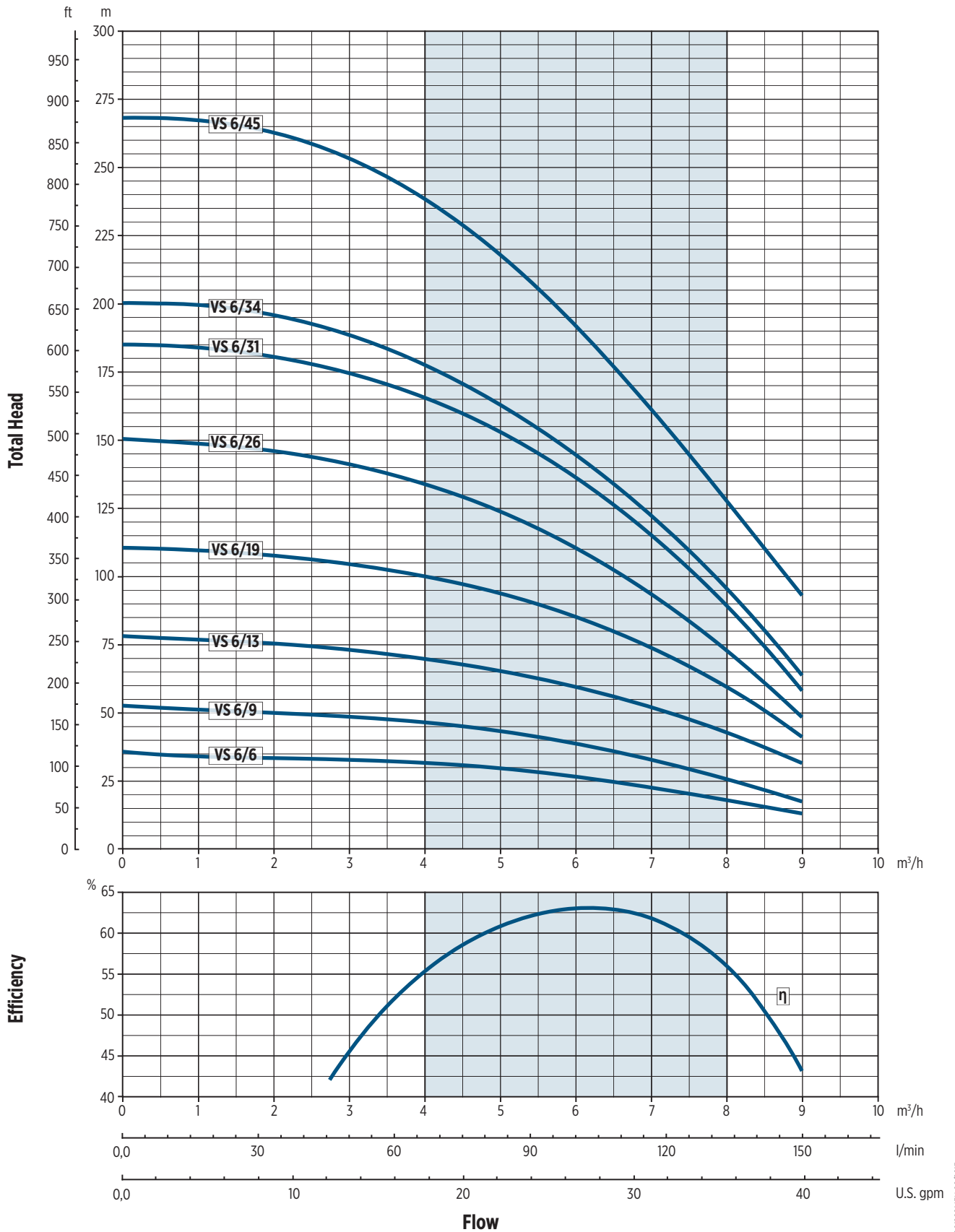
Pump model	Motor			Dimensions [mm]				Weight [Kg]					
	Type	[kW]	[HP]	L1	L2		Lt		Pump	Motor		Total	
					1-	3-	1-	3-		1-	3-	1-	3-
VS 6/6	E4	0.75	1	371	282.5	248	653.5	619	3.2	10.0	8.7	13.2	11.9
VS 6/9	E4	1.1	1.5	461	338.5	282.5	799.5	743.5	4.0	12.6	10.2	16.6	14.2
VS 6/13	E4	1.5	2	612	349.5	306.5	961.5	918.5	5.3	13.0	11.2	18.3	16.5
VS 6/19	E4	2.2	3	821	436.5	338.5	1257.5	1159.5	7.3	16.9	12.6	24.2	19.9
VS 6/26	E4	3	4	1031	-	393.5	-	1424.5	8.7	-	15.0	-	23.7
VS 6/31	E4	3.7	5	1212	-	520	-	1732	10.2	-	19.1	-	29.3
VS 6/34	E4	4	5.5	1303	-	543	-	1846	10.9	-	20.0	-	30.9
VS 6/45	E4	5.5	7.5	1631	-	652.5	-	2283.5	14.1	-	26.6	-	40.7



0033003.05/2017

PERFORMANCE CURVES AT 50 Hz

MEI ≥ 0,40



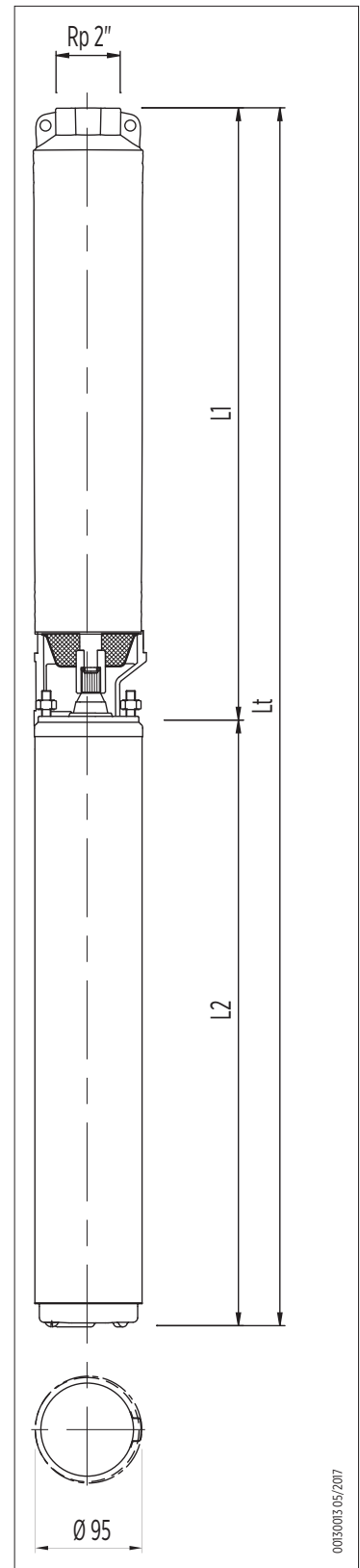
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VS 7 50Hz

TECHNICAL DATA - PUMPS WITH ENCAPSULATED MOTOR

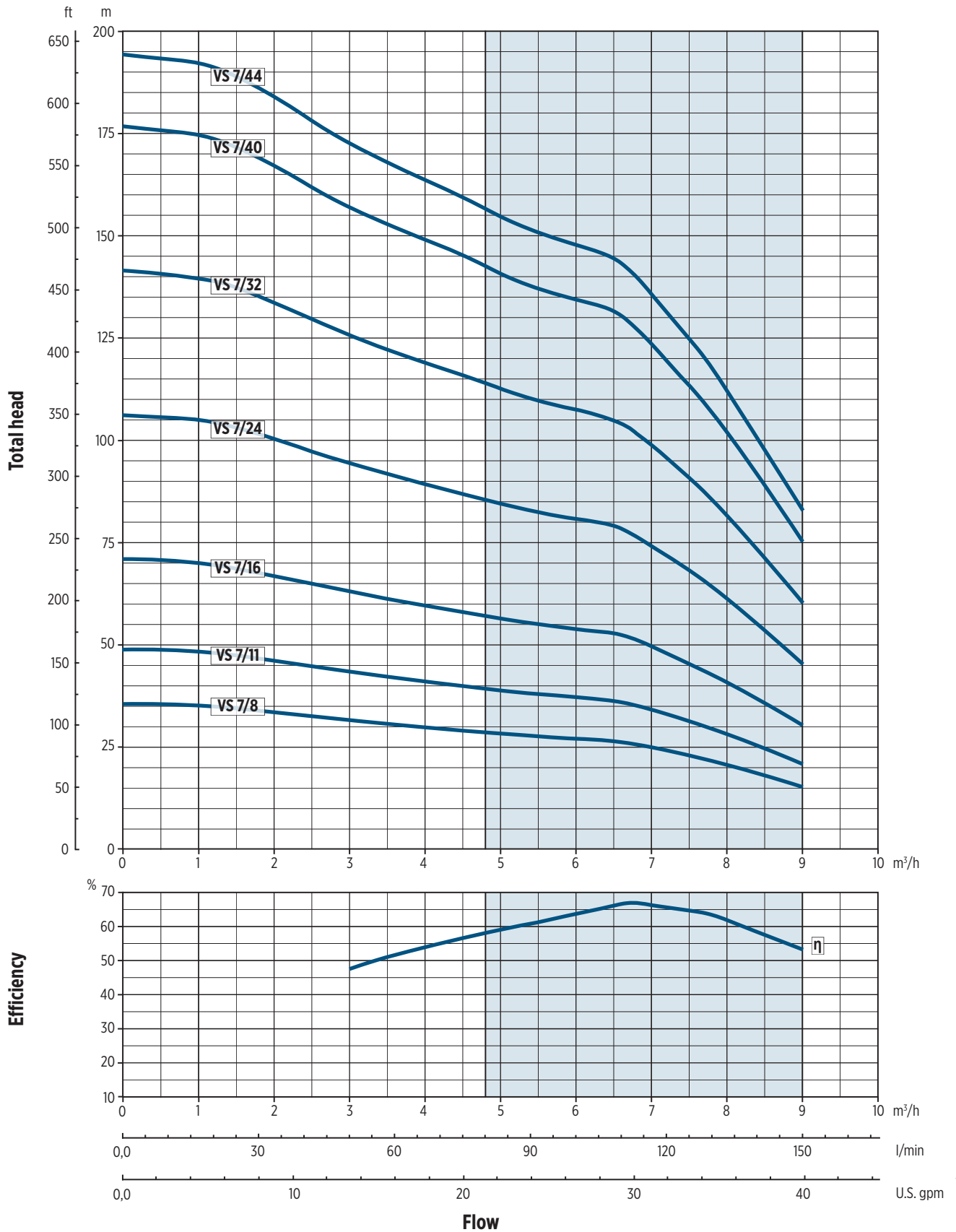
Pump model	Motor			Dimensions [mm]					Weight [Kg]				
	Type	[kW]	[HP]	L1	L2		Lt		Pump	Motor		Total	
					1-	3-	1-	3-		1-	3-	1-	3-
VS 7/8	E4	0.75	1	440	298	272	738	712	3.5	9.3	7.25	12.8	10.75
VS 7/11	E4	1.1	1.5	542	322	298	864	840	4.5	10.45	8.55	14.95	13.05
VS 7/16	E4	1.5	2	713	354	322	1067	1035	6.8	11.9	9.55	19.9	17.55
VS 7/24	E4	2.2	3	1014	452	354	1466	1368	8	16.65	11.05	24.65	19.05
VS 7/32	E4	3	4	1318	-	409	-	1727	10	-	13.55	-	23.55
VS 7/40	E4	3.7	5	1618	-	520	-	2138	12	-	26.6	-	38.6
VS 7/44	E4	4	5.5	1755	-	543	-	2298	13.5	-	30.6	-	44.1



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PERFORMANCE CURVES AT 50 Hz

MEI ≥ 0,40



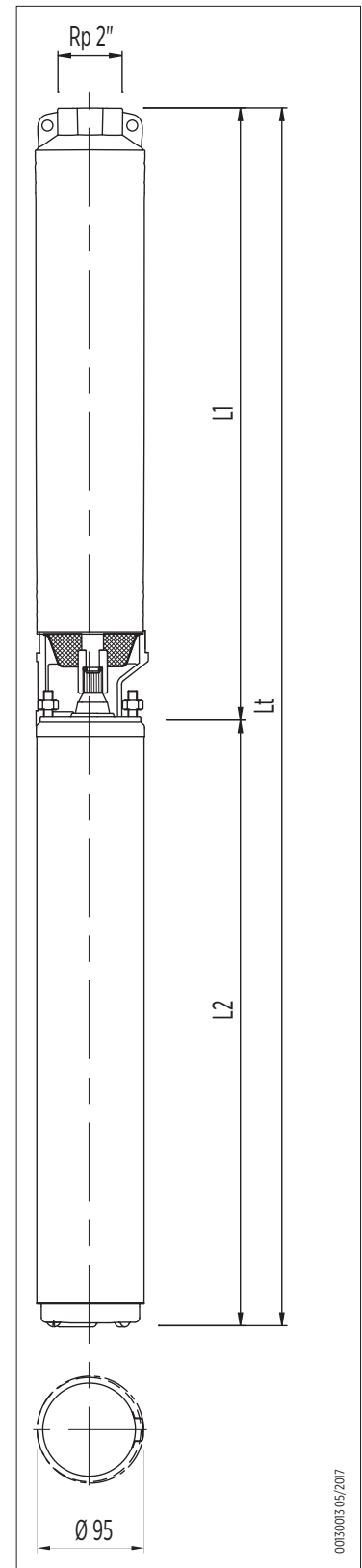
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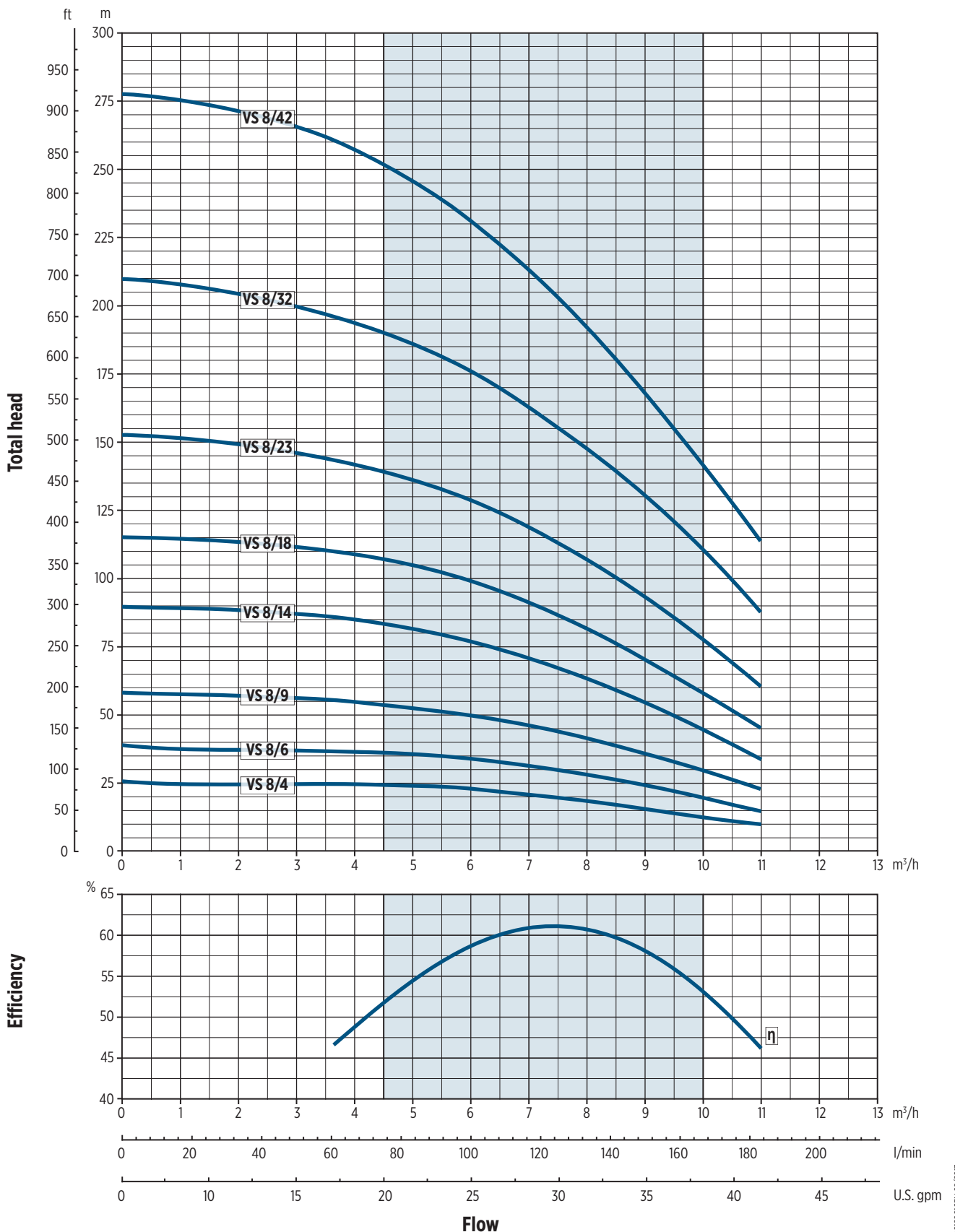
VS 8 50Hz

TECHNICAL DATA - PUMPS WITH ENCAPSULATED MOTOR

Pump model	Motor			Dimensions [mm]				Weight [Kg]					
	Type	[kW]	[HP]	L1	L2		Lt		Pump	Motor		Total	
					1-	3-	1-	3-		1-	3-	1-	3-
VS 8/4	E4	0.75	1	311	282.5	248	593.5	559	2.9	10.0	8.7	12.9	11.6
VS 8/6	E4	1.1	1.5	371	338.5	282.5	709.5	653.5	3.2	12.6	10.2	15.8	13.4
VS 8/9	E4	1.5	2	461	349.5	306.5	810.5	767.5	4.0	13.0	11.2	17.0	15.2
VS 8/14	E4	2.2	3	643	436.5	338.5	1079.5	981.5	5.4	16.9	12.6	22.3	18.0
VS 8/18	E4	3	4	793	-	393.5	-	1186.5	6.6	-	15.0	-	21.6
VS 8/23	E4	4	5.5	943	-	543	-	1486	7.7	-	20.0	-	27.7
VS 8/32	E4	5.5	7.5	1245	-	652.5	-	1897.5	10.1	-	26.6	-	36.7
VS 8/42	E4	7.5	10	1576	-	730.5	-	2306.5	12.8	-	30.6	-	42.4



PERFORMANCE CURVES AT 50 Hz



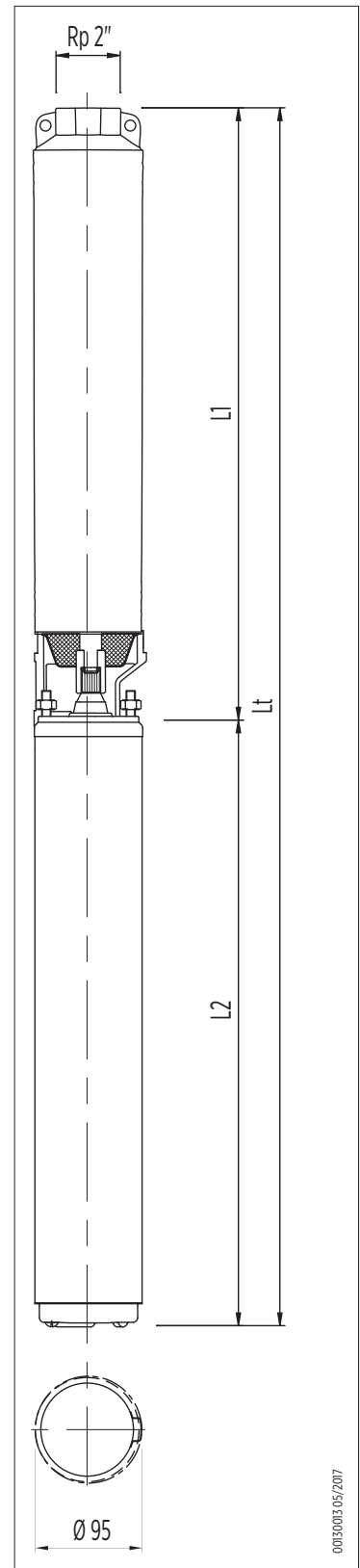
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VS 10 50Hz

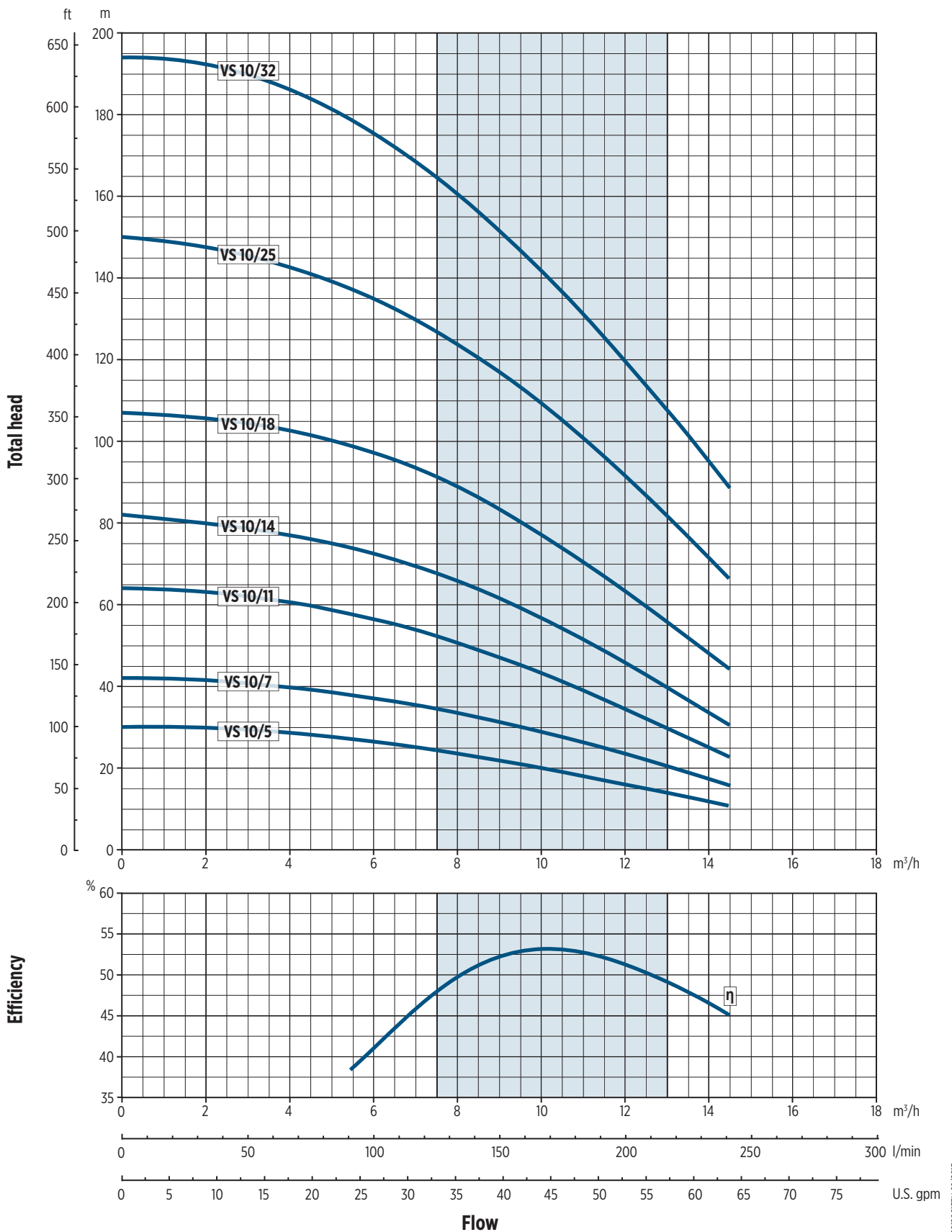
TECHNICAL DATA - PUMPS WITH ENCAPSULATED MOTOR

Pump model	Motor			Dimensions [mm]				Weight [Kg]					
	Type	[kW]	[HP]	L1	L2		Lt		Pump	Motor		Total	
					1-	3-	1-	3-		1-	3-	1-	3-
VS 10/5	E4	1.1	1.5	440	338.5	282.5	778.5	722.5	3.7	12.6	10.2	16.3	13.9
VS 10/7	E4	1.5	2	541	349.5	306.5	890.5	847.5	4.4	13.0	11.2	17.4	15.6
VS 10/11	E4	2.2	3	773	436.5	338.5	1209.5	111.5	6.3	16.9	12.6	23.2	18.9
VS 10/14	E4	3	4	923	-	393.5	-	1316.5	7.6	-	15.0	-	22.6
VS 10/18	E4	4	5.5	1153	-	543	-	1696	9.4	-	20.0	-	29.4
VS 10/25	E4	5.5	7.5	1536	-	652.5	-	2188.5	12.4	-	26.6	-	39.0
VS 10/32	E4	7.5	10	1918	-	730.5	-	2648.5	15.8	-	30.6	-	46.4



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PERFORMANCE CURVES AT 50 Hz



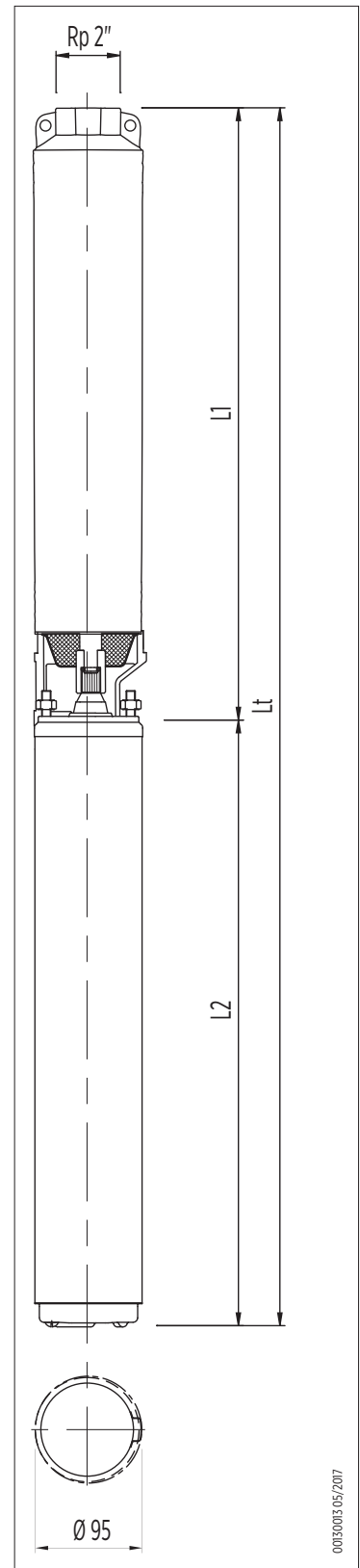
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VS 15 50Hz

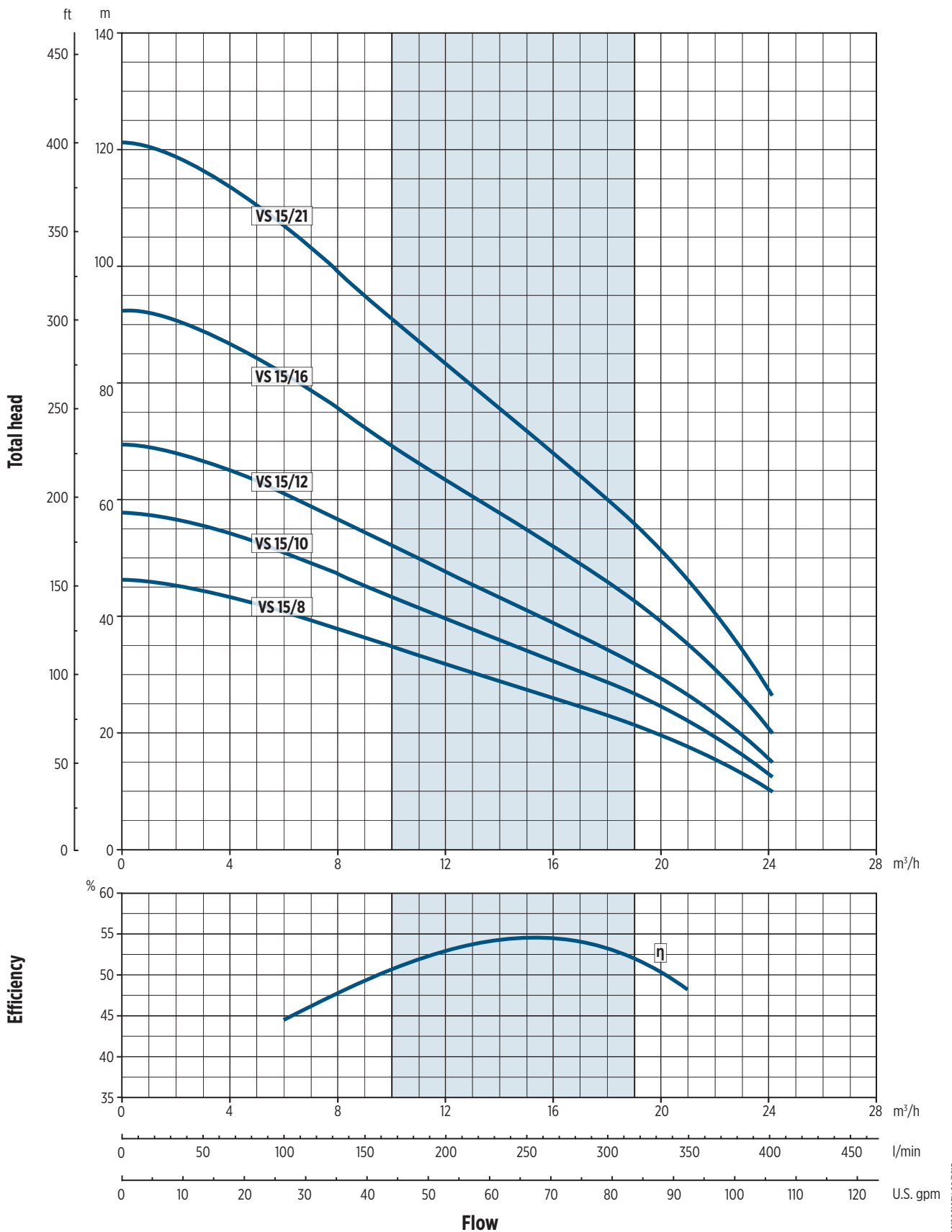
TECHNICAL DATA - PUMPS WITH ENCAPSULATED MOTOR

Pump model	Motor			Dimensions [mm]				Weight [Kg]					
	Type	[kW]	[HP]	L1	L2		Lt		Pump	Motor		Total	
					1-	3-	1-	3-		1-	3-	1-	3-
VS 15/8	E4	2.2	3	686	436.5	338.5	1122.5	1024.5	5.4	16.9	12.6	22.3	18.0
VS 15/10	E4	3	4	833	-	393.5	-	1226.5	6.4	-	15.0	-	21.4
VS 15/12	E4	4	5.5	981	-	543	-	1515	7.4	-	20.0	-	27.4
VS 15/16	E4	5.5	7.5	1275	-	652.5	-	1927.5	9.5	-	26.6	-	36.1
VS 15/21	E4	7.5	10	1643	-	730.5	-	2373.5	12.1	-	30.6	-	42.7



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PERFORMANCE CURVES AT 50 Hz



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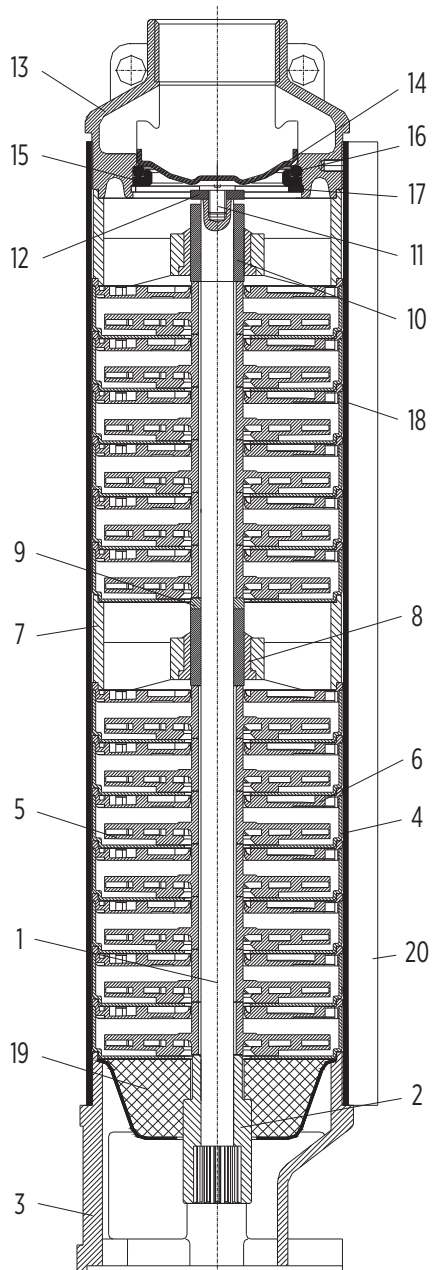


Pump section and List of main components



VS 1-2-3-4-6-7-8

PUMP SECTION AND LIST OF MAIN COMPONENTS



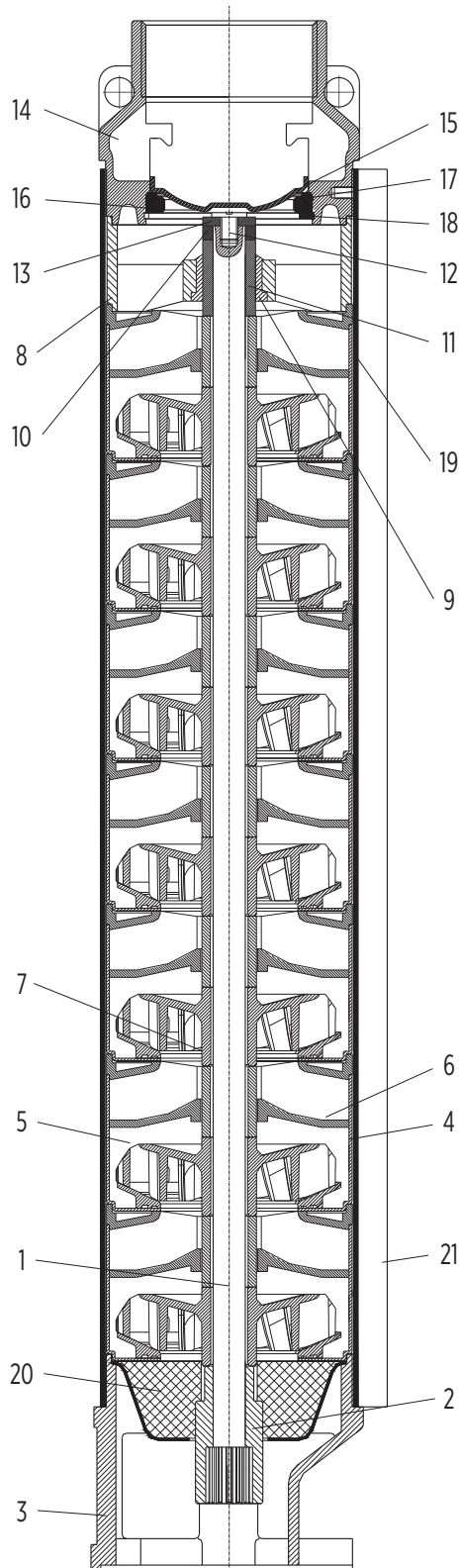
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Ref. N.	Description	Material
1	Shaft	Stainless Steel (AISI 304)
2	Coupling	Stainless Steel (AISI 304)
3	Motor support	Stainless Steel (AISI 304)
4	Body	Stainless Steel (AISI 304) for VS 1-2-3-4-6-8, Noryl®* for VS 7
5	Impeller	Polycarbonate
6	Diffuser	Noryl®*
7	Bearing housing	Resin
8	Bearing bushing	Resin
9	Upper spacer	Polycarbonate
10	Upper journal sleeve	Stainless Steel (AISI 316)
11	Screw	Stainless Steel (AISI 304)
12	Washer	Stainless Steel (AISI 316)
13	Discharge	Stainless Steel (AISI 304)
14	Check valve disc	Stainless Steel (AISI 304)
15	Check valve ring	Stainless Steel (AISI 420)
16	Check valve O-ring	Rubber
17	Check valve snap ring	Stainless Steel (AISI 304)
18	Outer case	Stainless Steel (AISI 304)
19	Strainer	Stainless Steel (AISI 304)
20	Cable guard	Stainless Steel (AISI 304)

* Noryl® is a Registered Trademark of G.E.

VS 10-15

PUMP SECTION AND LIST OF MAIN COMPONENTS



Ref. N.	Description	Material
1	Shaft	Stainless Steel (AISI 304)
2	Coupling	Stainless Steel (AISI 304)
3	Motor support	Stainless Steel (AISI 304)
4	Body	Stainless Steel (AISI 304)
5	Impeller	Polycarbonate
6	Diffuser	Noryl®*
7	Spacer	Resin
8	Bearing housing	Resin
9	Bearing bushing	Resin
10	Upper spacer	Polycarbonate
11	Bushing	Stainless Steel (AISI 316)
12	Screw	Stainless Steel (AISI 304)
13	Washer	Stainless Steel (AISI 316)
14	Discharge	Stainless Steel (AISI 304)
15	Check valve disc	Stainless Steel (AISI 304)
16	Check valve ring	Stainless Steel (AISI 420)
17	Check valve O-ring	Rubber
18	Check valve snap ring	Stainless Steel (AISI 304)
19	Outer case	Stainless Steel (AISI 304)
20	Strainer	Stainless Steel (AISI 304)
21	Cable guard	Stainless Steel (AISI 304)

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00330015_06/2017



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Single member - Company subject to the control and coordination of Franklin Electric Co., Inc.

Franklin Electric S.r.l. reserves the right to amend specification without prior notice

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