

# SUBMERSIBLE PUMPS FOR 4" DEEP WELLS OR LARGER

## APPLICATIONS

- 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 m<sup>3</sup>/h at 50 Hz
- Head: up to 278 m at 50 Hz
- Pumped liquid: chemically and mechanically non aggressive
- Water temperature range: from 0 °C to 40 °C
- Maximum allowable amount of sand: 100 g/m<sup>3</sup> / 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

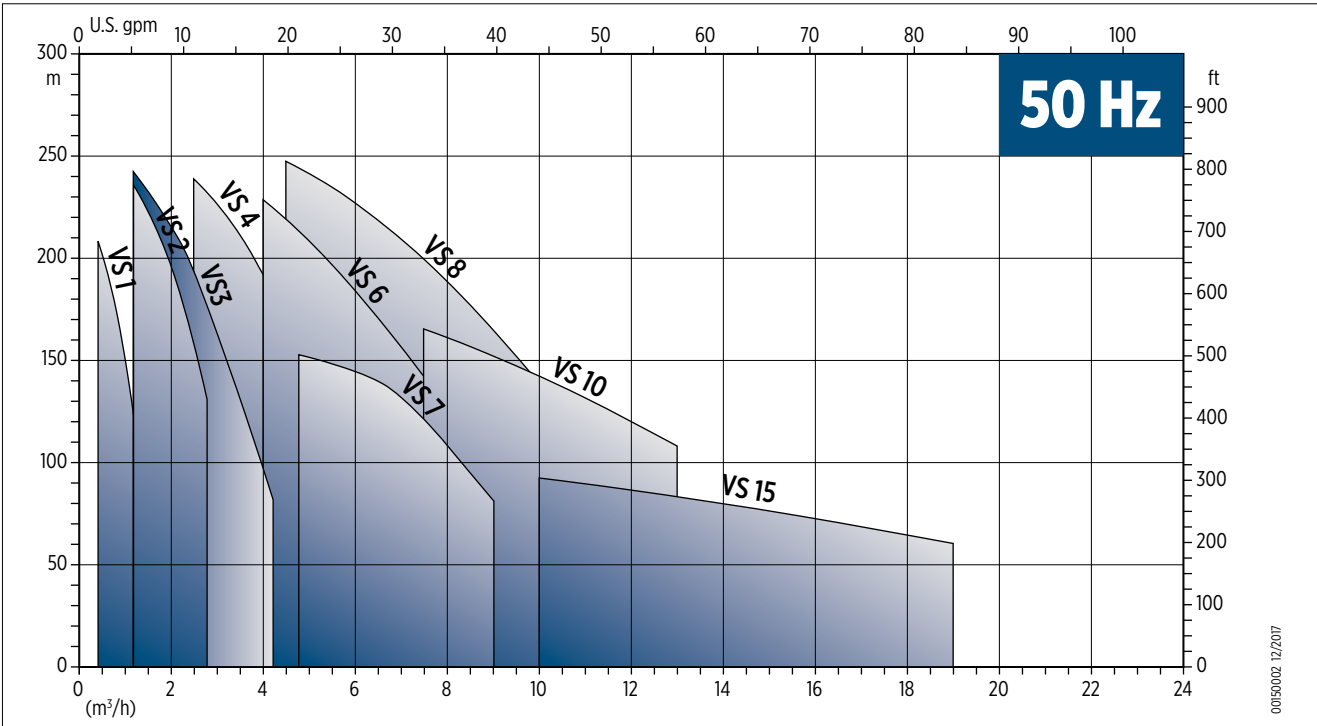
## MOTOR SPECIFICATION

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

## AVAILABLE ON REQUEST

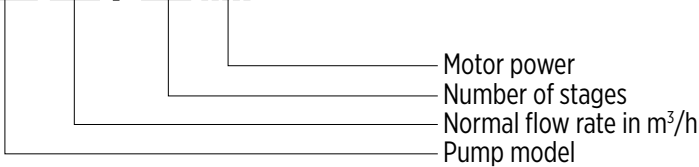
- Cooling shroud

### FAMILY CURVES



### PUMP IDENTIFICATION CODE

VS 10 / 14



00140002EN/08/2017

### PUMP RATING PLATE

**Franklin Electric**

Imported by  
Franklin Electric S.r.l  
Via Asolo, 7  
36031 Dueville (VI) - ITALY  
P-IVA IT00558130241

Type ① Serial No ② Year ③

min <sup>-1</sup>	Q(m <sup>3</sup> /h)	H(m)	Hmax(m)	kW	S.F.	MEI ≥	Hyd.Eff
④	⑤	⑥	⑦	⑧	⑨	⑩	⑪

Part No : ⑫

- 1) Model
- 2) Serial number
- 3) Year of production
- 4) Nominal Rpm
- 5) Delivery range
- 6) Head range
- 7) Maximum head
- 8) Motor power
- 9) Service factor
- 10) MEI index
- 11) Hydraulic efficiency
- 12) Code

00140064/05/2019

# TABLES OF HYDRAULIC PERFORMANCE AT 50 HZ

## VS 1-2-3

Pump model	RATED POWER		Q = DELIVERY													
			m <sup>3</sup> /h 0	0.4	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.8	3	3.3	3.6	4.2
	[kW]	[HP]	l/min 0	6.7	10	15	20	25	30	35	40	47	50	55	60	70
			H = TOTAL M.HEAD OF WATER COLUMN [m]													
VS 1/10	0.37	0.5	68	56	53	45	35	18								
VS 1/13	0.37	0.5	83	68	64	54	39	20								
VS 1/19	0.55	0.75	118	100	94	80	57	30								
VS 1/26	0.75	1	156	136	126	105	75	41								
VS 1/38	1.1	1.5	241	209	193	162	117	63								
VS 2/5	0.37	0.5	34				30	29	27	25	22	17	14	10		
VS 2/7	0.37	0.5	47				43	40	37	35	30	24	20	14		
VS 2/10	0.55	0.75	67				60	57	54	49	43	34	28	20		
VS 2/14	0.75	1	94				85	80	75	68	60	46	39	27		
VS 2/20	1.1	1.5	133				120	114	107	97	86	66	56	40		
VS 2/27	1.5	2	189				164	154	145	132	115	90	75	53		
VS 2/39	2.2	3	259				235	222	209	190	167	130	110	75		
VS 3/4	0.37	0.5	28					25	24	23	22	20	19	17	15	10
VS 3/7	0.55	0.75	48					42	40	39	36	33	30	28	24	16
VS 3/10	0.75	1	70					62	59	56	52	48	44	39	34	23
VS 3/15	1.1	2	104					92	88	83	78	72	65	58	51	34
VS 3/20	1.5	2	140					124	119	112	105	97	87	77	66	43
VS 3/30	2.2	3	205					183	175	164	154	142	128	113	98	65
VS 3/37	3	4	257					232	222	210	194	179	161	143	123	82

## VS 4-6

Pump model	RATED POWER		Q = DELIVERY													
			m <sup>3</sup> /h 0	2.5	2.7	3	3.3	3.6	4.2	4.8	5.5	6	7	7.2	8	9
	[kW]	[HP]	l/min 0	42	45	50	55	60	70	80	92	100	117	120	133	150
			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 7-8-10-15**

Pump model	RATED POWER		Q = DELIVERY																					
			m <sup>3</sup> /h 0	4.5	5.4	6	7	7.5	8	8.4	9	9.6	10	11	12	13	14.5	15	16	17	18	19	24	
	l/min 0	75	90	100	117	125	133	140	150	160	167	183	200	217	242	250	267	283	300	317	400			
[kW]	[HP]	H = TOTAL M.HEAD OF WATER COLUMN [m]																						
VS 7/8	0.75	1	36	29	28	26	25	24	21	17	16													
VS 7/11	1.1	1.5	50	40	39	38	35	32	29	25	21													
VS 7/16	1.5	2	72	60	55	53	49	45	41	36	30													
VS 7/24	2.2	3	105	87	83	79	72	68	59	53	43													
VS 7/32	3	4	140	114	110	105	97	90	80	72	58													
VS 7/40	3.7	5	176	145	137	135	124	107	103	88	77													
VS 7/44	4	5.5	189	159	151	144	132	124	109	96	82													
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