



VSF SERIES 50 HZ

4"/6" SUBMERSIBLE PUMPS



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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.

4"/6" SUBMERSIBLE PUMPS

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
- Residential and farm wells and drainage
- General industry

FEATURES

- Compact, reliable and suited to operate in horizontal position
- 4": Built-in check valve to protect the pump against water hammer risk (for model 4VVSF15 please contact Franklin Electric)
- 6": Built-in check valve, spring loaded for models with more than 19 stages, to protect the pump against water hammer risk
- Floating impellers to grant a better performance and longer life for the pump against abrasion (4" pumps)

GENERAL PUMP SPECIFICATION

- Pumped liquid: chemically and mechanically non aggressive
- Rotation: counter clockwise when looking into the discharge
- Pump can work continuously in vertical or horizontal position

PUMP SPECIFICATION

- Flow:
 - 4" pumps: up to 27 m³/h at 50 Hz
 - 6" pumps: up to 60 m³/h at 50 Hz
- Head:
 - 4" pumps: up to 641 m at 50 Hz
 - 6" pumps: up to 788 m at 50 Hz
- Pumped liquid: chemically and mechanically non aggressive
- Max water temperature: 4" pumps: 45 °C; 6" pumps: 30 °C
- Maximum allowable amount of sand:
 - 4" pumps: 250 g/m³; 6" pumps: 60 g/m³
- Maximum pump diameter (including cable guard):
 - 4" pumps: 98 mm; 6" pumps: 140 mm
- Outlet diameter:
 - 4" pumps: 1" ¼ for VSF 1-2-3-4, 2" for VSF 6-8-12-15
 - 6" pumps: 3"
- Motor support:
 - 4" pumps: supplied for connection to 4" motor
 - 6" pumps: supplied for connection to 4" motor up to 5.5 kW; from 7.5 kW to 6" motor
- Rotation: counter clockwise when looking into the discharge
- Pump can work continuously in vertical or horizontal position

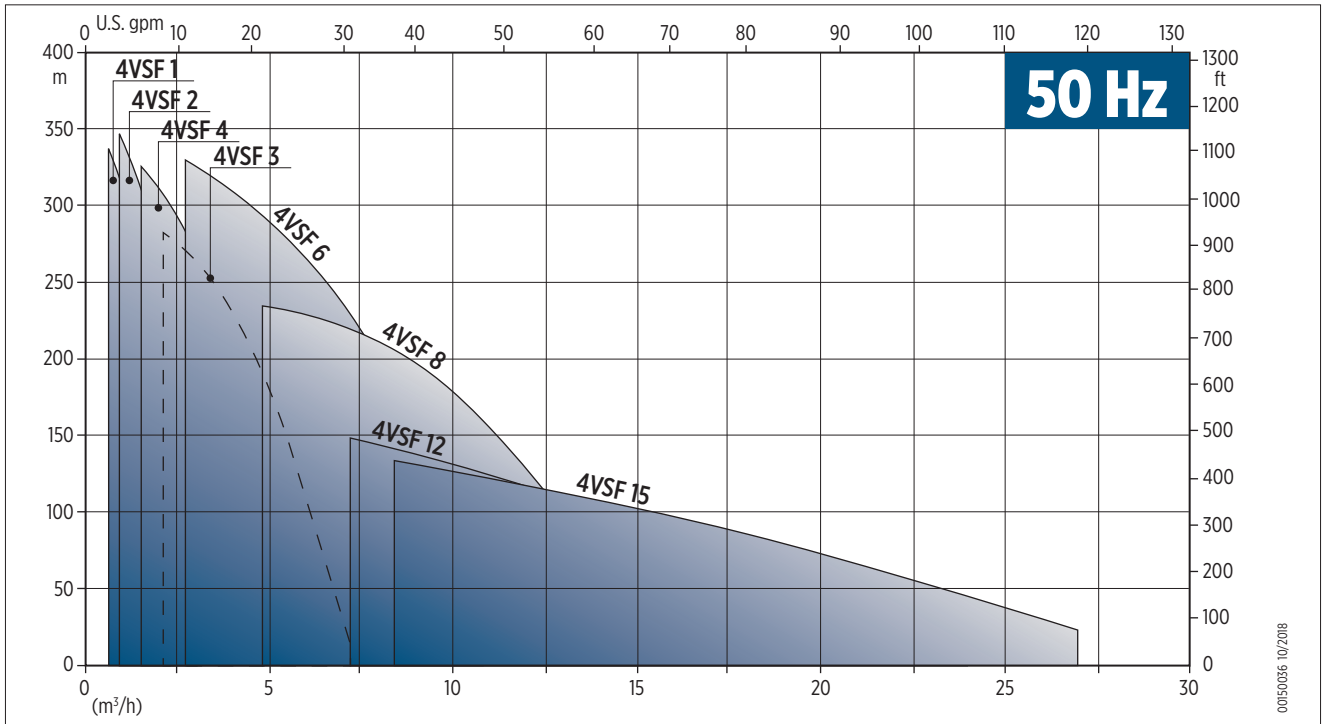
MOTOR SPECIFICATION

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

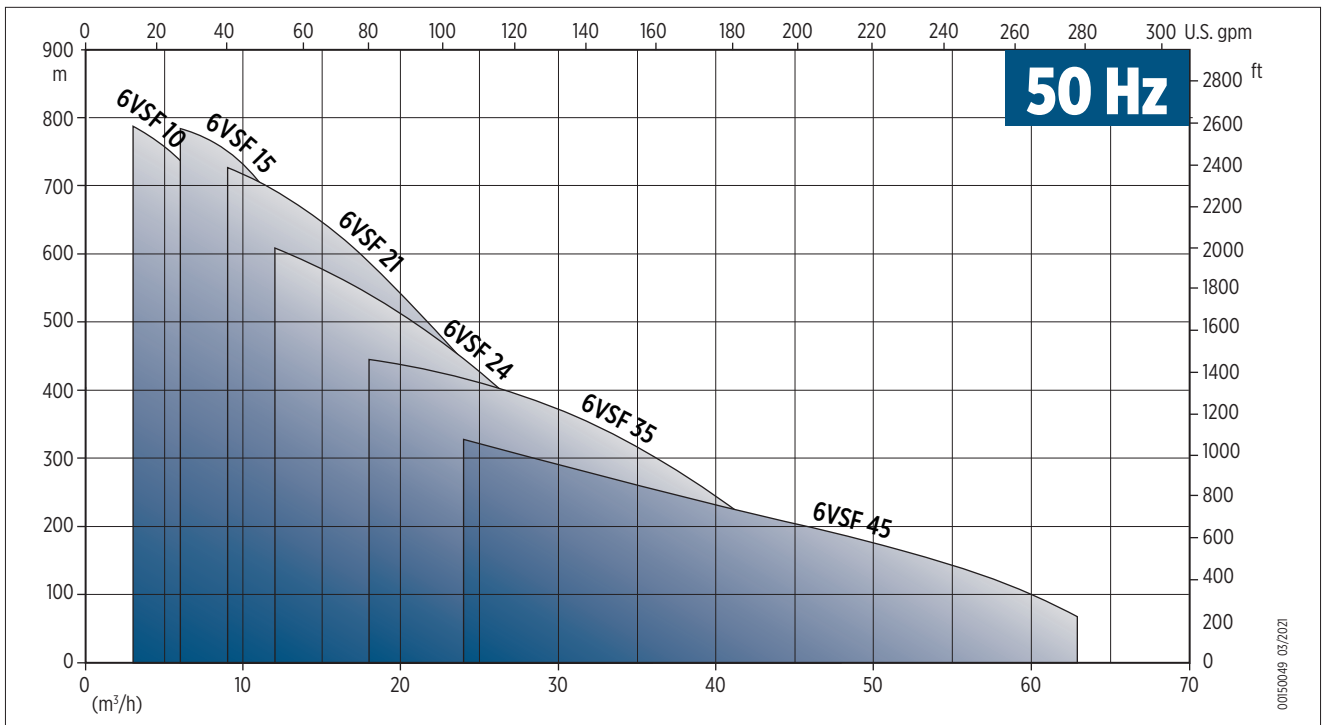
AVAILABLE ON REQUEST

- Spring loaded check valve for 6" pumps with less than 19 stages
- 6" motor support for 6VVSF up to 5.5 kW
- Cooling shroud
- Discharge head 2" ½
- Double cable guard

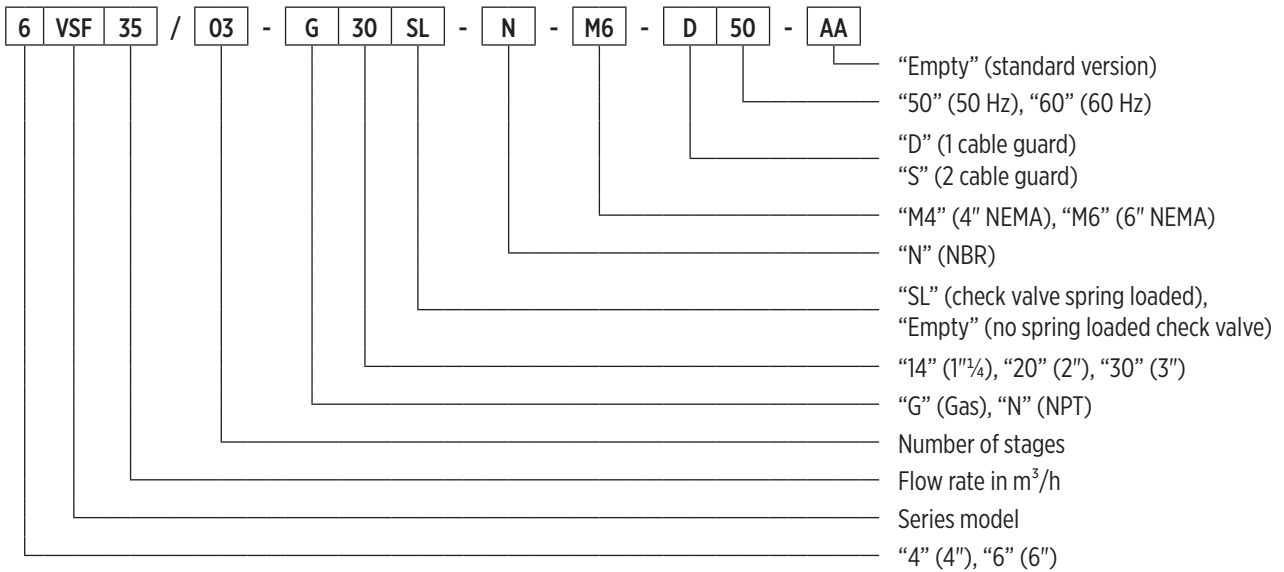
4VSF FAMILY CURVES



6VSF FAMILY CURVES

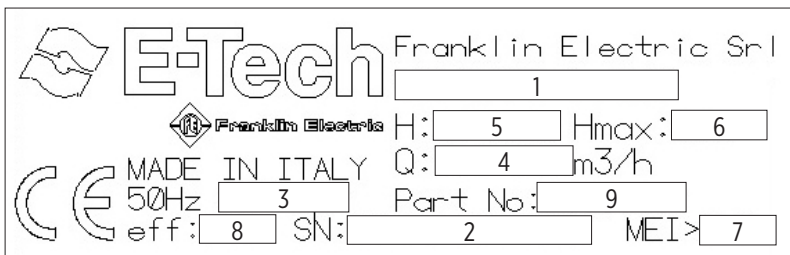


PUMP IDENTIFICATION CODE



00140047 03/2021

PUMP RATING PLATE



- 1) Model
- 2) Serial number
- 3) Nominal Rpm
- 4) Delivery range
- 5) Head range
- 6) Maximum head
- 7) MEI index
- 8) Hydraulic efficiency
- 9) Code

4" HYDRAULIC PERFORMANCE AT 50 HZ - 2850rpm

4VSF 1-2

Pump model	No. stages	RATED POWER		Q = DELIVERY													
				m³/h 0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3	6		
				l/min 0	5	10	15	20	25	30	35	40	45	50			
[kW]		[HP]		H = TOTAL M.HEAD OF WATER COLUMN [m]													
4VSF 1	11	0.37	0.5	63.5			59.0	55.0	50.5	43.0	35.0	26.0	15.0				
	16	0.55	0.75	90.5			85.5	80.0	72.0	62.5	51.0	37.0	20.5				
	22	0.75	1	124.5			117.5	109.5	99.0	86.0	70.0	50.5	26.0				
	32	1.1	1.5	181.0			171.0	159.5	144.0	124.5	101.5	73.5	41.0				
	42	1.5	2	237.5			224.5	209.0	189.0	163.5	133.0	96.0	54.0				
	63	2.2	3	356.0			336.5	313.5	293.0	245.5	199.5	144.5	81.0				
	Efficiency				-			27%	36%	42%	46%	45%	39%	27%			
4VSF 2	07	0.37	0.5	47.0				44.0	42.0	39.5	36.5	33.0	28.5	23.5	18.0		
	11	0.55	0.75	70.0				65.5	62.5	59.0	54.5	49.0	43.0	35.0	27.0		
	15	0.75	1	96.0				89.0	85.5	80.5	74.5	67.0	58.0	48.0	36.5		
	22	1.1	1.5	140.0				129.5	124.0	117.0	107.0	96.0	83.0	68.0	50.0		
	30	1.5	2	187.0				174.0	165.5	155.0	142.0	126.5	108.5	87.5	64.0		
	44	2.2	3	274.0				253.5	243.0	227.0	208.0	185.5	159.5	128.5	94.0		
	60	3	4	374.0				346.0	331.0	310.0	284.0	253.0	217.0	175.0	128.0		
Efficiency				-				32%	40%	47%	51%	53%	52%	49%	41%		

Best efficiency point

4VSF 3-4

Pump model	No. stages	RATED POWER		Q = DELIVERY																	
				m³/h 0	1.2	1.5	1.8	2.1	2.4	2.7	3	3.6	4.2	4.8	5.4	6	6.6	7.2	8.4		
				l/min 0	20	25	30	35	40	45	50	60	70	80	90	100	110	120	140		
[kW]		[HP]		H = TOTAL M.HEAD OF WATER COLUMN [m]																	
4VSF 3	05	0.37	0.5	32.5				31.0	30.5	30.0	29.0	27.5	26.0	22.5	18.0	12.5					
	07	0.55	0.75	45.5				43.5	43.0	41.5	40.0	38.5	36.5	31.5	25.5	17.5					
	10	0.75	1	65.0				62.5	61.0	59.5	57.5	55.0	52.0	45.0	36.0	25.0					
	15	1.1	1.5	96.5				91.0	89.0	87.0	83.5	80.0	76.0	65.5	52.5	36.0					
	20	1.5	2	129.0				121.5	119.0	115.5	111.0	106.5	101.0	87.0	69.0	47.5					
	30	2.2	3	193.0				182.5	178.5	173.5	167.0	160.0	151.5	130.5	103.0	71.5					
	40	3	4	257.0				241.0	235.5	228.0	219.5	209.5	198.0	170.0	134.0	90.0					
	54	4	5.5	346.5				325.5	317.5	307.5	296.5	282.5	267.0	229.0	181.0	121.5					
Efficiency				-				45%	49%	54%	57%	60%	62%	61%	56%	42%					
4VSF 4	04	0.37	0.5	27.5						26.0	25.0	24.5	24.0	22.5	20.0	17.0	13.0	9.5	5.5	1.5	
	06	0.55	0.75	41.0						38.5	38.0	37.0	36.0	33.5	30.0	25.0	20.0	14.0	8.0	2.0	
	08	0.75	1	55.0						51.5	50.5	49.5	48.0	44.5	40.0	33.5	26.5	19.0	11.0	2.5	
	12	1.1	1.5	82.0						77.0	75.5	74.0	72.0	67.0	59.5	50.0	39.5	28.5	16.5	4.0	
	16	1.5	2	109.0						102.5	101.0	98.5	96.0	89.0	79.5	67.0	53.0	38.0	22.0	5.0	
	24	2.2	3	163.5						154.0	151.0	148.0	143.5	134.5	119.0	100.5	79.0	56.5	32.5	7.5	
	32	3	4	218.0						205.0	201.5	197.0	191.5	118.0	159.0	134.0	105.5	75.5	43.5	10.0	
	44	4	5.5	299.5						282.0	277.0	271.0	263.0	245.0	218.5	184.0	145.0	103.5	59.5	13.5	
	60	5.5	7.5	408						384.0	377.0	369.0	359.0	334.0	298.0	251.0	197.0	141.0	81.0	18.0	
	80	7.5	10	544						512.0	503.0	492.0	478.0	445.0	397.0	334.0	263.0	188.0	108.0	24.0	
	100	9.2	12.5	680						641.0	629.0	615.0	598.0	556.0	496.0	418.0	329.0	235.0	135.0	30.0	
Efficiency										52%	56%	58%	61%	62%	62%	57%	48%	32%	-	-	

Best efficiency point

4VSF 6-8

Pump model	No. stages	RATED POWER		Q = DELIVERY																	
				m³/h 0	2.4	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
				l/min 0	40	45	50	60	70	80	90	100	110	120	140	160	180	200	225	250	275
		[kW]	[HP]	H = TOTAL M.HEAD OF WATER COLUMN [m]																	
4VSF 6	04	0.55	0.75	26.5		23.0	22.5	22.0	21.0	20.5	19.5	18.5	17.5	16.0	12.5	8.5	4.0				
	06	0.75	1	40.0		34.5	34.0	33.0	32.0	30.5	29.0	28.0	26.0	24.0	18.5	12.5	6.0				
	09	1.1	1.5	60.0		51.5	50.5	49.0	47.5	46.0	44.0	41.5	39.0	35.5	28.0	19.0	9.0				
	12	1.5	2	77.0		67.5	66.5	64.5	62.5	60.5	58.0	55.5	52.0	47.5	37.0	25.0	12.0				
	18	2.2	3	116.0		101.0	100.0	96.5	94.0	90.5	87.0	83.0	77.5	71.0	55.5	37.5	18.0				
	24	3	4	154.5		135.0	133.0	129.0	125.0	121.0	115.5	110.5	103.5	94.5	74.0	50.0	23.5				
	34	4	5.5	210.0		187.0	184.0	178.5	173.0	166.5	159.0	150.0	140.5	129.0	101.5	67.0	27.0				
	45	5.5	7.5	265.5		241.0	238.5	232.0	224.0	215.0	203.5	190.5	176.0	160.5	124.5	79.0	31.0				
	60	7.5	10	370.0		329.5	325.0	315.0	305.0	293.5	280.0	265.0	248.0	227.0	179.0	118.0	47.0				
Efficiency						36%	40%	46%	52%	57%	60%	61%	62%	61%	53%	36%	-				
4VSF 8	04	0.75	1	26.0						23.5	23.0	22.5	22.0	21.5	20.0	18.0	15.0	12.0	8.0	4.0	
	06	1.1	1.5	39.0						35.5	35.0	34.0	33.5	32.0	30.0	28.0	23.0	18.5	12.0	5.5	
	08	1.5	2	52.5						47.0	46.5	45.5	44.5	43.0	40.0	36.0	30.5	24.5	16.0	7.5	
	12	2.2	3	78.5						71.0	69.5	68.0	66.5	64.5	60.0	53.5	45.5	36.5	23.5	11.0	
	16	3	4	104.5						94.5	93.0	91.0	88.7	86.0	80.0	71.5	61.0	49.0	31.5	14.5	
	22	4	5.5	144.5						129.0	127.5	125.5	123.5	120.5	113.0	101.5	88.0	69.5	44.0	16.5	
	30	5.5	7.5	196.8						176.0	173.5	171.0	168.0	164.5	154.0	138.5	119.5	94.5	60.0	22.0	
	39	7.5	10	262.5						234.5	231.5	228.0	224.0	219.5	205.5	185.0	159.5	126.0	80.0	29.5	
	Efficiency										47%	51%	54%	57%	59%	60%	59%	54%	47%	34%	-

Best efficiency point

4VSF 12*-15

Pump model	No. stages	RATED POWER		Q = DELIVERY																	
				m³/h 0	6.6	7.2	8.4	9.6	10.8	12	13.5	15	16.5	18	19.5	21	22.5	24	25.5	27	30
				l/min 0	110	120	140	160	180	200	225	250	275	300	325	350	375	400	425	450	500
		[kW]	[HP]	H = TOTAL M.HEAD OF WATER COLUMN [m]																	
4VSF 12	05	1.5	2	36.0		30.0	28.0	27.0	25.0	23.5	21.0	17.5	16.0	13.5	10.5	7.5	4.5	1.0			
	07	2.2	3	50.5		42.0	40.0	37.0	35.0	32.5	29.5	24.5	22.5	18.5	15.0	10.5	6.0	1.5			
	10	3	4	72.0		59.0	57.0	53.0	50.0	46.5	42.0	35.0	32.0	26.5	21.0	15.0	9.0	2.0			
	14	4	5.5	101.0		83.0	79.0	75.0	70.0	65.0	59.0	49.0	45.0	37.0	29.5	21.0	12.5	3.0			
	19	5.5	7.5	137.0		112.0	107.0	101.0	95.0	88.5	80.0	66.5	61.0	50.5	40.0	28.5	17.0	4.0			
	25	7.5	10	180.0		148.0	142.0	133.0	125.0	116.5	105.0	87.5	80.0	66.5	52.5	37.5	22.0	5.0			
Efficiency						38%	42%	44%	46%	46%	47%	45%	42%	37%	30%	22%	-	-			
4VSF 15	04	1.1	1.5	24.0		20.0	19.0	18.0	17.5	16.5	15.0	14.0	13.0	11.5	10.0	8.5	7.0	5.0	3.5		
	06	1.5	2	30.0		25.0	24.0	23.0	22.0	20.5	19.0	17.5	16.0	14.0	12.0	10.5	8.5	6.5	4.5		
	09	2.2	3	48.0		39.5	38.0	36.5	35.0	33.0	30.5	28.0	25.5	22.5	19.5	16.5	13.5	10.0	7.0		
	12	3	4	65.5		54.0	52.0	50.0	48.0	45.0	42.0	38.5	35.0	31.0	27.0	22.5	18.5	14.0	9.5		
	16	4	5.5	89.5		74.0	71.0	68.0	65.0	61.0	57.0	52.5	47.5	42.0	36.5	31.0	25.0	19.0	13.0		
	22	5.5	7.5	119.0		98.5	95.0	91.0	87.0	82.0	76.0	70.0	63.0	56.0	49.0	41.0	33.5	23.0	17.0		
	30	7.5	10	161.0		133.0	128.0	122.5	117.0	110.0	102.5	94.0	85.0	76.0	66.0	55.5	45.0	34.0	23.0		
Efficiency						46%	50%	55%	58%	61%	63%	64%	63%	62%	59%	55%	-	-	-		

Best efficiency point

* VSF12: For the European market product suitable only for fire-fighting application

6VSF 24-35-45

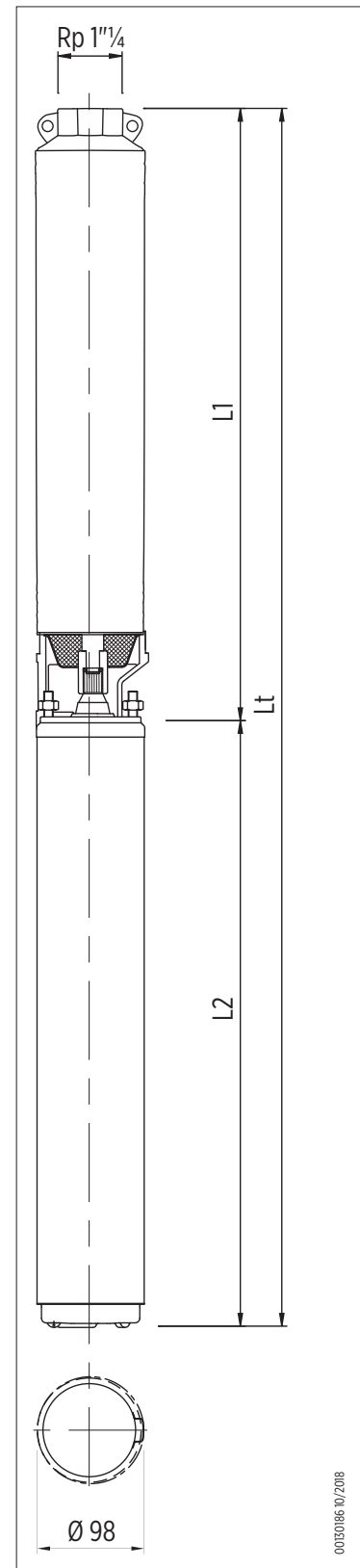
Pump model	No. stages	RATED POWER		Q = DELIVERY																				
				m ³ /h 0	6	12	15	18	24	27	30	33	36	39	42	45	48	51	60	63	66			
		[kW]	[HP]	l/min 0	100	200	250	300	400	450	500	550	600	650	700	750	800	850	1000	1050	1100			
		H = TOTAL M.HEAD OF WATER COLUMN [m]																						
6VSF 24	03	3.0	4	46		40	38	35	29	25	21	16	10											
	04	4.0	5.5	61		56	50	47	39	33	27	21	13											
	06	5.5	7.5	92		79	75	70	58	50	41	31	20											
	08	7.5	10	122		106	100	94	77	67	55	42	27											
	10	9.2	12.5	153		132	125	117	97	84	69	52	34											
	12	11.0	15	184		159	150	141	116	100	82	63	40											
	14	13.0	17.5	214		185	175	164	135	114	96	73	47											
	16	15.0	20	245		212	200	187	154	134	110	83	54											
	20	18.5	25	306		264	251	234	193	167	137	104	67											
	24	22.0	30	267		317	301	281	232	200	164	125	81											
	28	26.0	35	428		370	351	328	270	234	192	146	94											
	32	30.0	40	490		423	401	375	309	267	219	167	108											
	40	37.0	50	612		529	501	468	386	334	274	208	134											
46	45.0	60	704		608	576	539	444	384	315	240	155												
	Efficiency					50%	56%	63%	67%	65%	59%	48%	-											
6VSF 35	02	3.0	4					28	26	25	23	21	19	16	13	10	7							
	03	4.0	5.5					42	39	37	35	32	28	24	20	15	10							
	04	5.5	7.5					55	52	49	46	42	38	32	26	20	13							
	05	7.5	10					69	65	62	58	53	47	40	33	25	17							
	06	9.2	12.5					83	78	74	70	64	57	48	39	30	20							
	08	11.0	15					111	104	99	93	85	76	65	53	40	26							
	09	13.0	17.5					125	117	111	104	96	85	73	59	45	30							
	10	15.0	20					139	130	124	116	106	95	81	66	50	33							
	13	18.5	25					180	169	161	151	138	123	105	86	64	43							
	16	22.0	30					222	208	198	186	170	151	129	105	79	53							
	19	26.0	35					264	246	235	220	202	180	154	125	94	63							
	22	30.0	40					305	285	272	255	234	208	178	145	109	73							
	27	37.0	50					374	350	334	313	287	255	218	170	134	89							
32	45.0	60					444	415	396	371	340	302	259	211	158	106								
	Efficiency							54%	64%	67%	68%	67%	64%	60%	50%	35%	-							
6VSF 45	04	7.5	10					47	45	42	39	36	33	31	28	26	24	14	9					
	06	9.2	12.5					70	68	63	58	54	50	46	43	39	36	21	14					
	07	11.0	15					82	79	74	68	63	58	54	50	46	42	25	16					
	08	13.0	17.5					93	90	84	78	72	66	61	57	53	48	28	18					
	09	15.0	20					105	101	95	88	81	75	69	64	59	54	32	21					
	12	18.5	25					140	135	126	117	107	99	92	85	79	72	42	28					
	14	22.0	30					163	158	147	136	125	116	108	100	92	84	49	32					
	17	26.0	35					198	191	179	165	152	141	131	121	112	102	60	39					
	19	30.0	40					221	214	200	185	170	157	146	135	125	114	67	44					
	24	37.0	50					280	270	252	234	215	199	184	171	158	144	84	55					
28	45.0	60					326	315	294	272	251	232	215	199	184	168	98	64						
	Efficiency							49%	52%	55%	57%	58%	58%	56%	53%	48%	30%	-						

Best efficiency point

4" TECHNICAL DATA AT 50 HZ

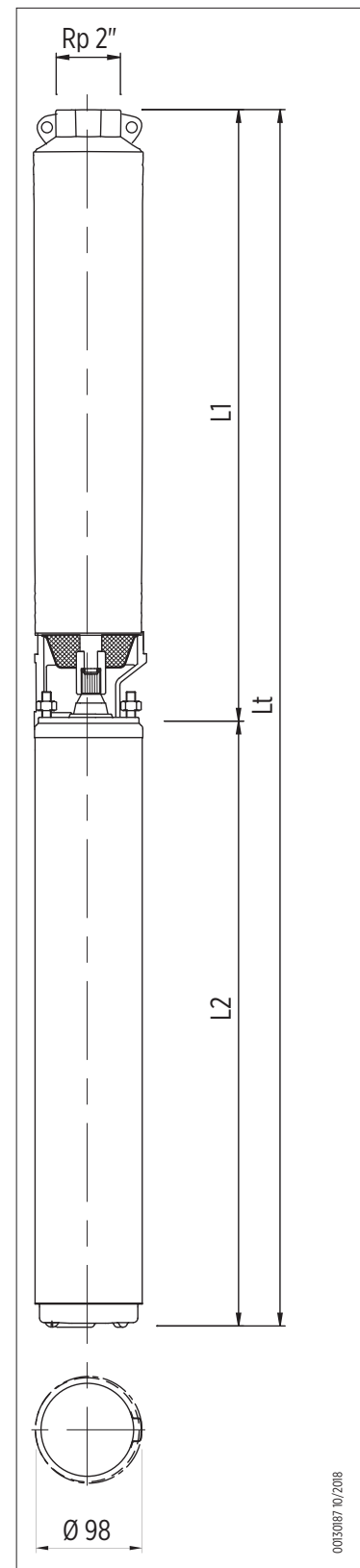
4VSF1-2-3-4

Pump model	No. stages	Motor			Dimensions [mm]					Weight [Kg]				
		Type	[Kw]	[HP]	L1	L2		Lt		Pump	Motor		Total	
						1-	3-	1-	3-		1-	3-		
4VSF 1	11	E4	0.37	0.5	349	252	238	601	587	3.4	7.2	5.6	10.6	9.0
	16	E4	0.55	0.75	449	277	252	726	701	4.4	8.4	9.4	12.8	13.8
	22	E4	0.75	1	569	298	272	867	841	5.5	9.3	7.3	14.8	12.9
	32	E4	1.1	1.5	800	322	298	1122	1098	7.9	10.5	8.6	18.4	16.5
	42	E4	1.5	2	1000	354	322	1354	1322	9.8	11.9	9.6	21.7	19.5
63	E4	2.2	3	1451	452	354	1903	1805	14.3	16.7	11.1	31.1	25.5	
4VSF 2	07	E4	0.37	0.5	270	252	238	522	508	2.7	7.2	5.6	9.9	8.3
	11	E4	0.55	0.75	349	277	252	626	601	3.5	8.4	9.4	11.9	12.9
	15	E4	0.75	1	430	298	272	728	702	4.4	9.3	7.3	13.7	11.7
	22	E4	1.1	1.5	569	322	298	891	867	5.8	10.5	8.6	16.3	14.4
	30	E4	1.5	2	728	354	322	1082	1050	7.4	11.9	9.6	19.3	17.0
	44	E4	2.2	3	1040	452	354	1492	1394	10.7	16.7	11.1	27.4	21.8
60	E4	3	4	1391	-	409	-	1800	14.3	-	13.6	-	27.9	
4VSF 3	05	E4	0.37	0.5	230	252	238	482	468	2.3	7.2	5.6	9.5	7.9
	07	E4	0.55	0.75	270	277	252	547	522	2.7	8.4	9.4	11.1	12.1
	10	E4	0.75	1	330	298	272	628	602	3.3	9.3	7.3	12.6	10.6
	15	E4	1.1	1.5	430	322	298	752	728	4.3	10.5	8.6	14.8	12.9
	20	E4	1.5	2	529	354	322	883	851	5.3	11.9	9.6	17.2	14.9
	30	E4	2.2	3	728	452	354	1180	1082	7.3	16.7	11.1	24.0	18.4
	40	E4	3	4	960	-	409	-	1369	9.8	-	13.6	-	23.4
54	E4	4	5.5	1240	-	544	-	1784	12.6	-	20.0	-	32.6	
4VSF 4	04	E4	0.37	0.5	218	252	238	470	456	2.1	7.2	5.6	9.4	7.8
	06	E4	0.55	0.75	262	277	252	539	514	2.6	8.4	9.4	11.0	12.0
	08	E4	0.75	1	306	298	272	604	578	3.0	9.3	7.3	12.3	11.3
	12	E4	1.1	1.5	393	322	298	715	691	3.8	10.5	8.6	14.3	12.4
	16	E4	1.5	2	481	354	322	835	803	4.7	11.9	9.6	16.6	14.3
	24	E4	2.2	3	657	452	354	1109	1011	6.4	16.7	11.1	23.1	17.5
	32	E4	3	4	864	-	409	-	1273	8.5	-	13.6	-	22.0
	44	E4	4	5.5	1128	-	544	-	1672	11.0	-	20.0	-	31.0
	60	E4	5.5	7.5	1511	-	653	-	2164	15.2	-	26.6	-	41.8
	80	E4	7.5	10	1984	-	731	-	2715	20	-	30.6	-	50.6
100	E4	9.2	12.5	2457	-	856	-	3313	24.8	-	37.9	-	62.7	



4VSF 6-8-12-15

Pump model	No. stages	Motor			Dimensions [mm]					Weight [Kg]				
		Type	[Kw]	[HP]	L1	L2		Lt		Pump	Motor		Total	
						1-	3-	1-	3-		1-	3-	1-	3-
4VSF 6	04	E4	0.55	0.75	278	277	252	555	530	2.7	8.4	9.4	11.1	12.1
	06	E4	0.75	1	352	298	272	650	624	3.3	9.3	7.3	12.6	10.6
	09	E4	1.1	1.5	463	322	298	785	761	4.3	10.5	8.6	14.8	12.9
	12	E4	1.5	2	573	354	322	927	895	5.3	11.9	9.6	17.2	14.9
	18	E4	2.2	3	794	452	354	1246	1148	7.3	16.7	11.1	24.0	18.4
	24	E4	3	4	1048	-	409	-	1457	9.7	-	13.6	-	23.4
	34	E4	4	5.5	1416	-	544	-	1960	13.1	-	20.0	-	33.1
	45	E4	5.5	7.5	1853	-	653	-	2506	17.2	-	26.6	-	43.8
60	E4	7.5	10	2411	-	731	-	3142	22.2	-	30.6	-	52.8	
4VSF 8	04	E4	0.75	1	290	298	272	588	562	2.7	9.3	7.3	12.0	10.0
	06	E4	1.1	1.5	370	322	298	692	668	3.4	10.5	8.6	13.8	12.0
	08	E4	1.5	2	450	354	322	804	772	4.0	11.9	9.6	16.0	13.7
	12	E4	2.2	3	609	452	354	1061	963	5.5	16.7	11.1	22.1	16.6
	16	E4	3	4	769	-	409	-	1178	6.9	-	13.6	-	20.5
	22	E4	4	5.5	1040	-	544	-	1584	9.4	-	20.0	-	29.4
	30	E4	5.5	7.5	1360	-	653	-	2013	12.1	-	26.6	-	38.7
	39	E4	7.5	10	1758	-	731	-	2489	15.4	-	30.6	-	46.2
4VSF 12	05	E4	1.5	2	435	354	322	789	757	3.5	11.9	9.6	15.4	13.1
	07	E4	2.2	3	557	452	354	1009	911	4.4	16.7	11.1	21.1	15.5
	10	E4	3	4	740	-	409	-	1149	5.7	-	13.6	-	19.3
	14	E4	4	5.5	983	-	544	-	1527	7.5	-	20.0	-	27.5
	19	E4	5.5	7.5	1287	-	653	-	1940	9.7	-	26.6	-	36.3
	25	E4	7.5	10	1652	-	731	-	2383	12.4	-	30.6	-	43.0
4VSF 15	04	E4	1.1	1.5	447	322	298	724	700	2.6	10.5	8.6	13.1	11.2
	06	E4	1.5	2	580	354	322	824	792	3.5	11.9	9.6	15.4	13.1
	09	E4	2.2	3	781	452	354	1126	1028	4.9	16.7	11.1	21.6	16.0
	12	E4	3	4	982	-	409	-	1286	6.4	-	13.6	-	20.0
	16	E4	4	5.5	1249	-	544	-	1726	8.2	-	20.0	-	28.2
	22	E4	5.5	7.5	1651	-	653	-	2173	11.0	-	26.6	-	37.6
	30	E4	7.5	10	2188	-	731	-	2659	14.8	-	30.6	-	45.4

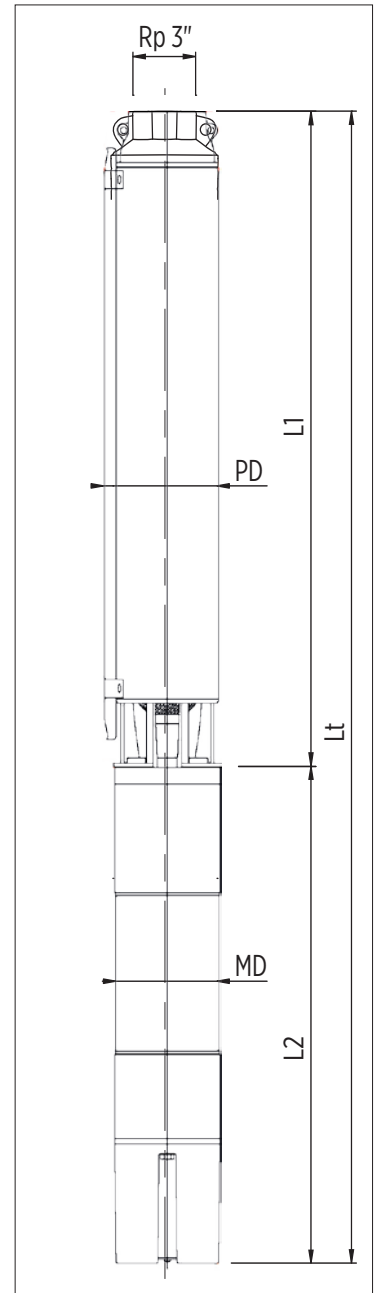


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6" TECHNICAL DATA AT 50 HZ

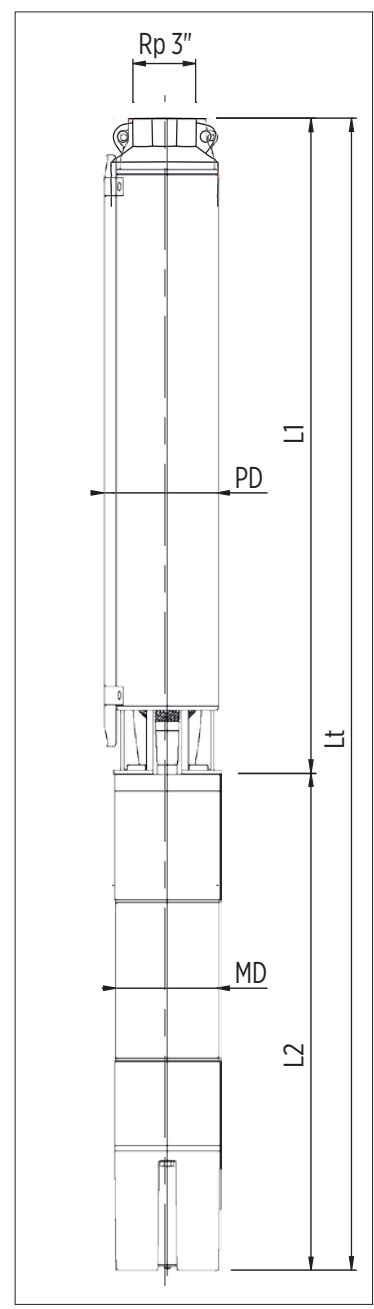
6VSF 10

Pump model	No. stages	Motor			Dimensions [mm]			Diameter [mm]			Weight [Kg]		
					L1	L2	Lt	Pump (PD)		Motor (MD)	Pump	Motor	
		Type	[Kw]	[HP]		3-	3-	1 cable	2 cable			3-	3-
6VSF 10	05	E4 HT	2.2	3	477	422.2	899.2	140	-	95.25	8.9	15	23.9
	06		3	4	515	477.2	992.2	140	-	95.25	9.6	17	26.6
	07		3.7	5	553	520.2	1073.2	140	-	95.25	10.2	19.1	29.3
	08		3.7	5	591	520.2	1111.2	140	-	95.25	10.8	19.1	29.9
	09		4	5.5	629	543.2	1172.2	140	-	95.25	11.4	20	31.4
	12		5.5	7.5	743	625.5	1368.5	140	-	95.25	13.3	26.6	39.9
	05	E6	4	5.5	477	581.2	1058.2	140	143	135.52	8.9	38	46.9
	06		4	5.5	515	581.2	1096.2	140	143	135.52	9.6	38	47.6
	07		4	5.5	553	581.2	1134.2	140	143	135.52	10.2	38	48.2
	08		4	5.5	591	581.2	1172.2	140	143	135.52	10.8	38	48.8
	09		4	5.5	629	581.2	1210.2	140	143	135.52	11.4	38	49.4
	12		5.5	7.5	743	614.4	1357.4	140	143	135.52	13.3	41	54.3
	16		7.5	10	895	646.2	1541.2	140	143	135.52	15.9	44	59.9
	18		9.2	12.5	971	678.7	1649.7	140	143	135.52	17.1	47.5	64.6
	21		9.2	12.5	1100	678.7	1778.7	140	143	135.52	21	47.5	68.5
	24		11	15	1214	711.2	1925.2	140	143	135.52	22.9	50	72.9
	28		15	20	1418	776.2	2194.2	140	143	135.52	26.3	56	82.3
	32		15	20	1718	776.2	2494.2	140	143	135.52	35.9	56	91.9
	40		18.5	25	2022	841.5	2863.5	140	143	135.52	41.7	63	104.7
	48		22	30	2326	906.5	3232.5	140	143	135.52	47.5	68.5	116
	54	30	40	2658	1036.6	3694.6	140	143	135.52	53.6	83	136.6	
	05	RW6	4	5.5	477	679	1156	140	143	142	8.9	43	51.9
	06		4	5.5	515	679	1194	140	143	142	9.6	43	52.6
	07		4	5.5	553	679	1232	140	143	142	10.2	43	53.2
	08		4	5.5	591	679	1270	140	143	142	10.8	43	53.8
	09		4	5.5	629	679	1308	140	143	142	11.4	43	54.4
	12		5.5	7.5	743	679	1422	140	143	142	13.3	43	56.3
	16		7.5	10	895	699	1594	140	143	142	15.9	45	60.9
	18		9.2	12.5	971	729	1700	140	143	142	17.1	49	66.1
	21		9.2	12.5	1100	729	1829	140	143	142	21	49	70
24	11		15	1214	759	1973	140	143	142	22.9	53	75.9	
28	13		17.5	1418	809	2227	140	143	142	26.3	57	83.3	
32	15		20	1718	854	2572	140	143	142	35.9	61	96.9	
40	18.5		25	2022	899	2921	140	143	142	41.7	66	107.7	
48	22		30	2326	989	3315	140	143	142	47.5	77	124.5	
54	26	35	2658	1094	3752	140	143	142	53.6	88	141.6		



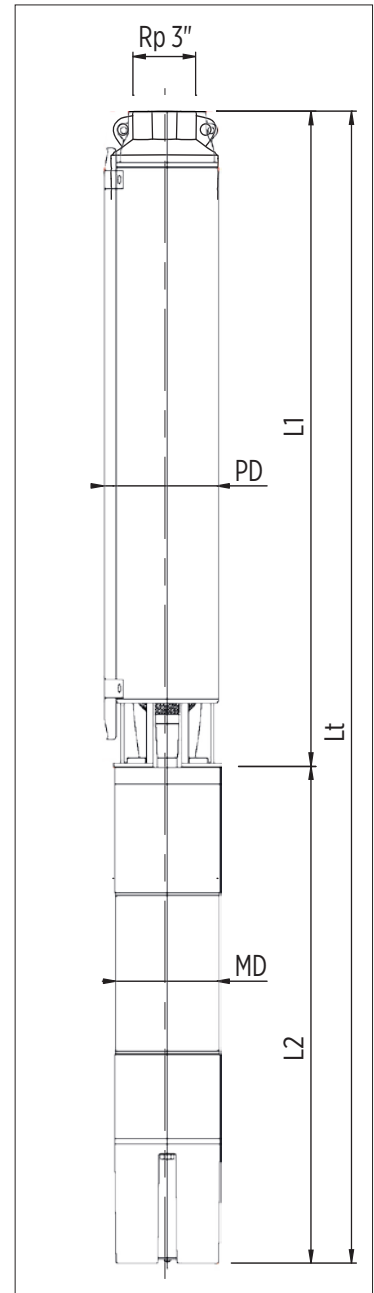
6VSF 15

Pump model	No. stages	Motor			Dimensions [mm]			Diameter [mm]			Weight [Kg]		
					L1	L2	Lt	Pump (PD)		Motor (MD)	Pump	Motor	
		Type	[Kw]	[HP]		3-	3-	1 cable	2 cable			3-	3-
6VSF 15	05	E4 HT	3	4	477	477.2	954.2	140	-	95.25	8.9	17	25.9
	06		4	5.5	515	543.2	1058.2	140	-	95.25	9.5	20	29.5
	07		5.5	7.5	553	625.5	1178.5	140	-	95.25	10.1	26.6	36.7
	08		5.5	7.5	591	625.5	1216.5	140	-	95.25	10.8	26.6	37.4
	09		5.5	7.5	629	625.5	1254.5	140	-	95.25	11.4	26.6	38
	05	E6	4	5.5	477	581.2	1058.2	140	143	135.52	8.9	38	46.9
	06		4	5.5	515	581.2	1096.2	140	143	135.52	9.5	38	47.5
	07		5.5	7.5	553	614.4	1167.4	140	143	135.52	10.1	41	51.1
	08		5.5	7.5	591	614.4	1205.4	140	143	135.52	10.8	41	51.8
	09		5.5	7.5	629	614.4	1243.4	140	143	135.52	11.4	41	52.4
	12		7.5	10	743	646.2	1389.2	140	143	135.52	13.3	44	57.3
	15		9.2	12.5	857	678.7	1535.7	140	143	135.52	15.2	47.5	62.7
	18		11	15	971	711.2	1682.2	140	143	135.52	17	50	67
	21		15	20	1100	776.2	1876.2	140	143	135.52	20.8	56	76.8
	24		15	20	1214	776.2	1990.2	140	143	135.52	22.8	56	78.8
	30		18.5	25	1494	841.5	2335.5	140	143	135.52	27.5	63	90.5
	35		22	30	1832	906.5	2738.5	140	143	135.52	37.9	68.5	106.4
	40		30	40	2022	1036.6	3058.6	140	143	135.52	41.5	83	124.5
	45		30	40	2212	1036.6	3248.6	140	143	135.52	45.1	83	128.1
	52		37	50	2582	1476.7	4058.7	140	143	135.52	51.9	118	169.9
	05	RW6	4	5.5	477	679	1156	140	143	142	8.9	43	51.9
	06		4	5.5	515	679	1194	140	143	142	9.5	43	52.5
	07		5.5	7.5	553	679	1232	140	143	142	10.1	43	53.1
	08		5.5	7.5	591	679	1270	140	143	142	10.8	43	53.8
	09		5.5	7.5	629	679	1308	140	143	142	11.4	43	54.4
	12		7.5	10	743	699	1442	140	143	142	13.3	45	58.3
	15		9.2	12.5	857	729	1586	140	143	142	15.2	49	64.2
	18		11	15	971	759	1730	140	143	142	17	53	70
	21		13	17.5	1100	809	1909	140	143	142	20.8	57	77.8
	24		15	20	1214	854	2068	140	143	142	22.8	61	83.8
30	18.5		25	1494	899	2393	140	143	142	27.5	66	93.5	
35	22		30	1832	989	2821	140	143	142	37.9	77	114.9	
40	26		35	2022	1094	3116	140	143	142	41.5	88	129.5	
45	30		40	2212	1194	3406	140	143	142	45.1	98	143.1	
52	37		50	2582	1274	3856	140	143	142	51.9	105	156.9	



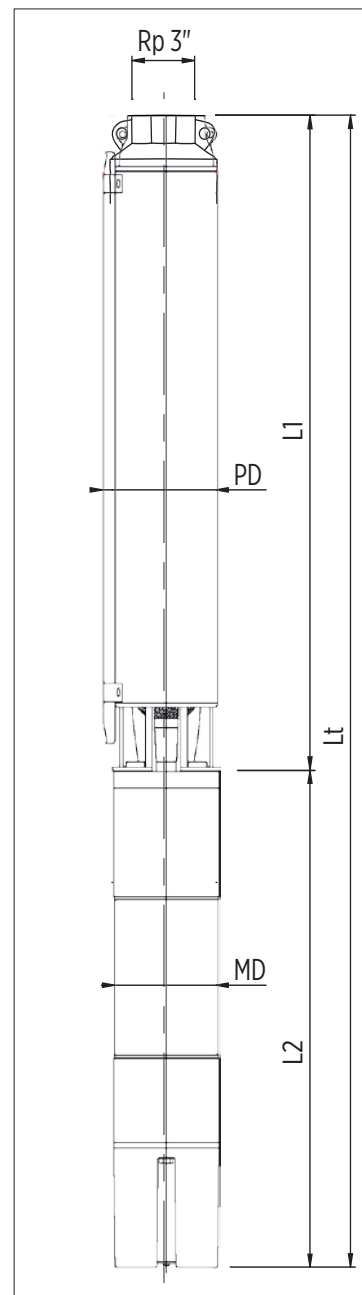
6VSF 21

Pump model	No. stages	Motor			Dimensions [mm]			Diameter [mm]			Weight [Kg]		
					L1	L2	Lt	Pump (PD)		Motor (MD)	Pump	Motor	
		Type	[Kw]	[HP]		3-	3-	1 cable	2 cable			3-	3-
6VSF 21	02	E4	1.5	2	401	321.2	722.2	140	-	95.25	7.5	5.58	13.08
	03		2.2	3	458	422.2	880.2	140	-	95.25	8.3	15	23.3
	04	E4 HT	3	4	515	477.2	992.2	140	-	95.25	9.2	17	26.2
	05		4	5.5	572	543.2	1115.2	140	-	95.25	10.1	20	30.1
	02	E6	4	5.5	401	581.2	982.2	140	143	135.52	7.5	38	45.5
	03		4	5.5	458	581.2	1039.2	140	143	135.52	8.3	38	46.3
	04		4	5.5	515	581.2	1096.2	140	143	135.52	9.2	38	47.2
	05		4	5.5	572	581.2	1153.2	140	143	135.52	10.1	38	48.1
	07		5.5	7.5	686	614.4	1300.4	140	143	135.52	11.8	41	52.8
	10		7.5	10	857	646.2	1503.2	140	143	135.52	14.4	44	58.4
	12		9.2	12.5	971	678.7	1649.7	140	143	135.52	16.1	47.5	63.6
	15		11	15	1142	711.2	1853.2	140	143	135.52	18.7	50	68.7
	17		15	20	1308	776.2	2084.2	140	143	135.52	21.2	56	77.2
	20		15	20	1494	776.2	2270.2	140	143	135.52	25.9	56	81.9
	25		18.5	25	1778	841.5	2619.5	140	143	135.52	30.4	63	93.4
	30		22	30	2212	906.5	3118.5	140	143	135.52	42.7	68.5	111.2
	35		30	40	2497	1036.6	3533.6	140	143	135.52	47.8	83	130.8
	40		30	40	2886	1036.6	3922.6	140	143	135.52	54.5	83	137.5
	50		37	50	3456	1476.7	4932.7	140	143	135.52	64.5	118	182.5
	58		45	60	4164	1629.2	5793.2	140	143	135.52	78.7	130	208.7
	02	RW6	4	5.5	401	679	1080	140	143	142	7.5	43	50.5
	03		4	5.5	458	679	1137	140	143	142	8.3	43	51.3
	04		4	5.5	515	679	1194	140	143	142	9.2	43	52.2
	05		4	5.5	572	679	1251	140	143	142	10.1	43	53.1
	07		5.5	7.5	686	679	1365	140	143	142	11.8	43	54.8
	10		7.5	10	857	699	1556	140	143	142	14.4	45	59.4
	12		9.2	12.5	971	729	1700	140	143	142	16.1	49	65.1
	15		11	15	1142	759	1901	140	143	142	18.7	53	71.7
17	13		17.5	1308	809	2117	140	143	142	21.2	57	78.2	
20	15		20	1494	854	2348	140	143	142	25.9	61	86.9	
25	18.5		25	1778	899	2677	140	143	142	30.4	66	96.4	
30	22		30	2212	989	3201	140	143	142	42.7	77	119.7	
35	26		35	2497	1094	3591	140	143	142	47.8	88	135.8	
40	30		40	2886	1194	4080	140	143	142	54.5	98	152.5	
50	37		50	3456	1274	4730	140	143	142	64.5	105	169.5	



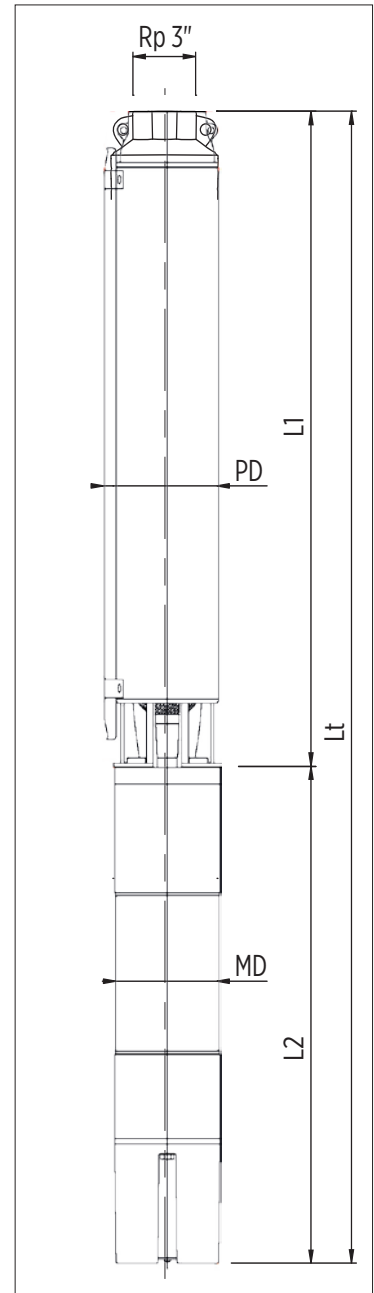
6VSF 24

Pump model	No. stages	Motor			Dimensions [mm]			Diameter [mm]			Weight [Kg]		
					L1	L2	Lt	Pump (PD)		Motor (MD)	Pump	Motor	
		Type	[Kw]	[HP]		3-	3-	1 cable	2 cable			3-	3-
6VSF 24	3	E4 HT	3	4	458	477.2	935.2	140	-	95.25	8.3	17	25.3
	4		4	5.5	515	543.2	1058.2	140	-	95.25	9.2	20	29.2
	6		5.5	7.5	629	625.5	1254.5	140	-	95.25	10.9	26.6	37.5
	3	E6	4	5.5	458	581.2	1039.2	140	143	135.52	8.3	38	46.3
	4		4	5.5	515	581.2	1096.2	140	143	135.52	9.2	38	47.2
	6		5.5	7.5	629	614.4	1243.4	140	143	135.52	10.9	41	51.9
	8		7.5	10	743	646.2	1389.2	140	143	135.52	12.7	44	56.7
	10		9.2	12.5	857	678.7	1535.7	140	143	135.52	14.4	47.5	61.9
	12		11	15	971	711.2	1682.2	140	143	135.52	16.1	50	66.1
	14		15	20	1085	776.2	1861.2	140	143	135.52	17.8	56	73.8
	16		15	20	1199	776.2	1975.2	140	143	135.52	19.6	56	75.6
	20		18.5	25	1494	841.5	2335.5	140	143	135.52	25.9	63	88.9
	24		22	30	1721	906.5	2627.5	140	143	135.52	29.5	68.5	98
	28		30	40	2098	1036.6	3134.6	140	143	135.52	40.7	83	123.7
	32		30	40	2326	1036.6	3362.6	140	143	135.52	44.7	83	127.7
	40		37	50	2886	1476.7	4362.7	140	143	135.52	54.5	118	172.5
	46		45	60	3228	1629.2	4857.2	140	143	135.52	60.5	130	190.5
	3		RW6	4	5.5	458	679	1137	140	143	142	8.3	43
	4	4		5.5	515	679	1194	140	143	142	9.2	43	52.2
	6	5.5		7.5	629	679	1308	140	143	142	10.9	43	53.9
	8	7.5		10	743	699	1442	140	143	142	12.7	45	57.7
	10	9.2		12.5	857	729	1586	140	143	142	14.4	49	63.4
	12	11		15	971	759	1730	140	143	142	16.1	53	69.1
	14	15		20	1085	854	1939	140	143	142	17.8	61	78.8
	16	15		20	1199	854	2053	140	143	142	19.6	61	80.6
	20	18.5		25	1494	899	2393	140	143	142	25.9	66	91.9
	24	22		30	1721	989	2710	140	143	142	29.5	77	106.5
	28	30		40	2098	1194	3292	140	143	142	40.7	98	138.7
32	30	40		2326	1194	3520	140	143	142	44.7	98	142.7	
40	37	50		2886	1274	4160	140	143	142	54.5	105	159.5	



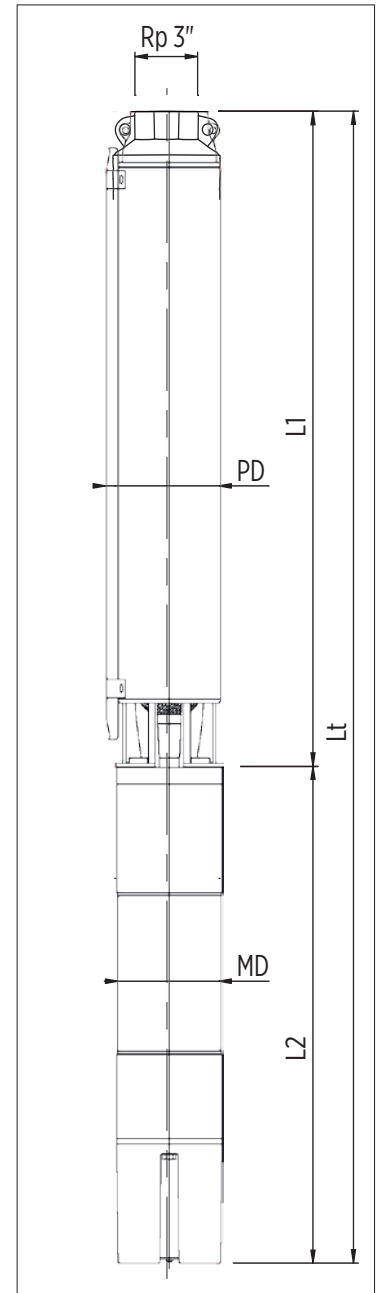
6VSF 35

Pump model	No. stages	Motor			Dimensions [mm]			Diameter [mm]			Weight [Kg]		
					L1	L2	Lt	Pump (PD)		Motor (MD)	Pump	Motor	
		Type	[Kw]	[HP]		3-	3-	1 cable	2 cable			3-	3-
6VSF 35	02	E4 HT	3	4	407	477.2	884.2	140	-	95.25	7.6	17	24.6
	03		4	5.5	467	543.2	1010.2	140	-	95.25	8.5	20	28.5
	04		5.5	7.5	527	625.5	1152.5	140	-	95.25	9.4	26.6	36
	02	E6	4	5.5	407	581.2	988.2	140	143	135.52	7.6	38	45.6
	03		4	5.5	467	581.2	1048.2	140	143	135.52	8.5	38	46.5
	04		5.5	7.5	527	614.4	1141.4	140	143	135.52	9.4	41	50.4
	05		7.5	10	587	646.2	1233.2	140	143	135.52	10.3	44	54.3
	06		9.2	12.5	647	678.7	1325.7	140	143	135.52	11.2	47.5	58.7
	08		11	15	767	711.2	1478.2	140	143	135.52	13	50	63
	09		15	20	827	776.2	1603.2	140	143	135.52	13.9	56	69.9
	10		15	20	887	776.2	1663.2	140	143	135.52	14.8	56	70.8
	13		18.5	25	1067	841.5	1908.5	140	143	135.52	17.5	63	80.5
	16		22	30	1247	906.5	2153.5	140	143	135.52	20.2	68.5	88.7
	19		30	40	1494	1036.6	2530.6	140	143	135.52	25.8	83	108.8
	22		30	40	1674	1036.6	2710.6	140	143	135.52	28.7	83	111.7
	27		37	50	2162	1476.7	3638.7	140	143	135.52	38.7	118	156.7
	32		45	60	2422	1629.2	4051.2	140	143	135.52	46.3	130	176.3
	02	RW6	4	5.5	407	679	1086	140	143	142	7.6	43	50.6
	03		4	5.5	467	679	1146	140	143	142	8.5	43	51.5
	04		5.5	7.5	527	679	1206	140	143	142	9.4	43	52.4
	05		7.5	10	587	699	1286	140	143	142	10.3	45	55.3
	06		9.2	12.5	647	729	1376	140	143	142	11.2	49	60.2
	08		11	15	767	759	1526	140	143	142	13	53	66
	09		13	17.5	827	809	1636	140	143	142	13.9	57	70.9
	10		15	20	887	854	1741	140	143	142	14.8	61	75.8
	13		18.5	25	1067	899	1966	140	143	142	17.5	66	83.5
	16		22	30	1247	989	2236	140	143	142	20.2	77	97.2
19	26		35	1494	1094	2588	140	143	142	25.8	88	113.8	
22	30		40	1674	1194	2868	140	143	142	28.7	98	126.7	
27	37		50	2162	1274	3436	140	143	142	38.7	105	143.7	



6VSF 45

Pump model	No. stages	Motor			Dimensions [mm]			Diameter [mm]			Weight [Kg]		
					L1	L2	Lt	Pump (PD)		Motor (MD)	Pump	Motor	
		Type	[Kw]	[HP]		3-	3-	1 cable	2 cable			3-	3-
6VSF 45	04	E6	7.5	10	527	646.2	1173.2	140	143	135.52	9.3	44	53.3
	06	E6	9.2	12.5	647	678.7	1325.7	140	143	135.52	11.1	47.5	58.6
	07	E6	11	15	707	711.2	1418.2	140	143	135.52	12	50	62
	08	E6	15	20	767	776.2	1543.2	140	143	135.52	12.9	56	68.9
	09	E6	15	20	827	776.2	1603.2	140	143	135.52	13.8	56	69.8
	12	E6	18.5	25	1007	841.5	1848.5	140	143	135.52	16.4	63	79.4
	14	E6	22	30	1127	906.5	2033.5	140	143	135.52	18.2	68.5	86.7
	17	E6	30	40	1359	1036.6	2395.6	140	143	135.52	21.7	83	104.7
	19	E6	30	40	1494	1036.6	2530.6	140	143	135.52	25.6	83	108.6
	24	E6	37	50	1793	1476.7	3269.7	140	143	135.52	33.2	118	151.2
	28	E6	45	60	2237	1629.2	3866.2	140	143	135.52	41.8	130	171.8
	04	RW6	7.5	10	527	699	1226	140	143	142	9.3	45	54.3
	06	RW6	9.2	12.5	647	729	1376	140	143	142	11.1	49	60.1
	07	RW6	11	15	707	759	1466	140	143	142	12	53	65
	08	RW6	13	17.5	767	809	1576	140	143	142	12.9	57	69.9
	09	RW6	15	20	827	854	1681	140	143	142	13.8	61	74.8
	12	RW6	18.5	25	1007	899	1906	140	143	142	16.4	66	82.4
	14	RW6	22	30	1127	989	2116	140	143	142	18.2	77	95.2
	17	RW6	26	35	1359	1094	2453	140	143	142	21.7	88	109.7
	19	RW6	30	40	1494	1194	2688	140	143	142	25.6	98	123.6
24	RW6	37	50	1793	1274	3067	140	143	142	33.2	105	138.2	





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

00105027 EN_REV.01_03/2021

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