

# FPS-1000FS Submersible Turbine Pump



The FS Series pumps have been engineered in all AISI 316 stainless steel for efficient and reliable pumping of liquids in marine, residential, municipal, industrial and agricultural applications.

- 40 to 1,200 m<sup>3</sup>/h
- 8": 100 and 130 m<sup>3</sup>/h
- 10": 180 and 200 m<sup>3</sup>/h
- 12": 260, 300 and 400 m<sup>3</sup>/h
- 14": 600 m<sup>3</sup>/h
- 16": 1,000 m<sup>3</sup>/h

### Features:

- 100% factory tested
- Stainless Steel AISI 316 discharge and suction bracket
- Stainless Steel AISI 316 bowls
- FS Series feature: 8", 10", 12", 14" and 16" sizes
- Stainless Steel impellers and diffusers
- Impellers locked onto shaft with keys
- Rubber & PTFE bearings
- Integrated Non Return valve on all models
- Stainless Steel 329 duplex pump shaft for increased durability
- All pumps suit Franklin Electric motors
- Flanged discharges
- Maximum running time at zero delivery is 2 minutes
- Maximum water temperature is 30°C
- Maximum solids content is 70 g/m<sup>3</sup>

### Model Number Explanation

Example: 1000 FS 16 - 1 A - 5 12 220

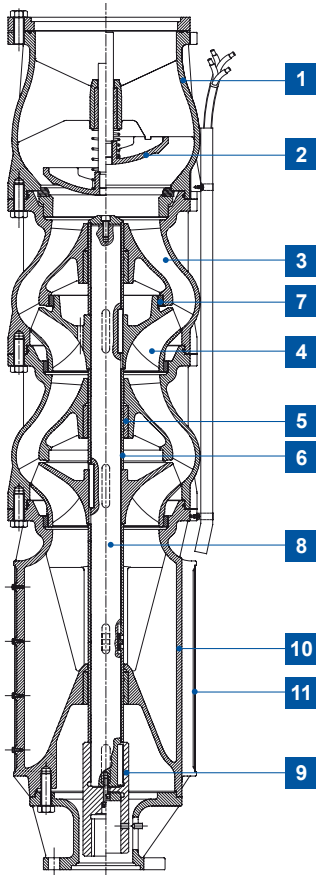
- 1000 = Flow in m<sup>3</sup>/hr
- FS = Series
- 16 = Pump End
- 1 = Stages
- A = Trim
- 5 = 50 Hz
- 12 = Motor size
- 220 = 220 kW

# FPS-1000FS Submersible Turbine Pump

## Part and material specifications

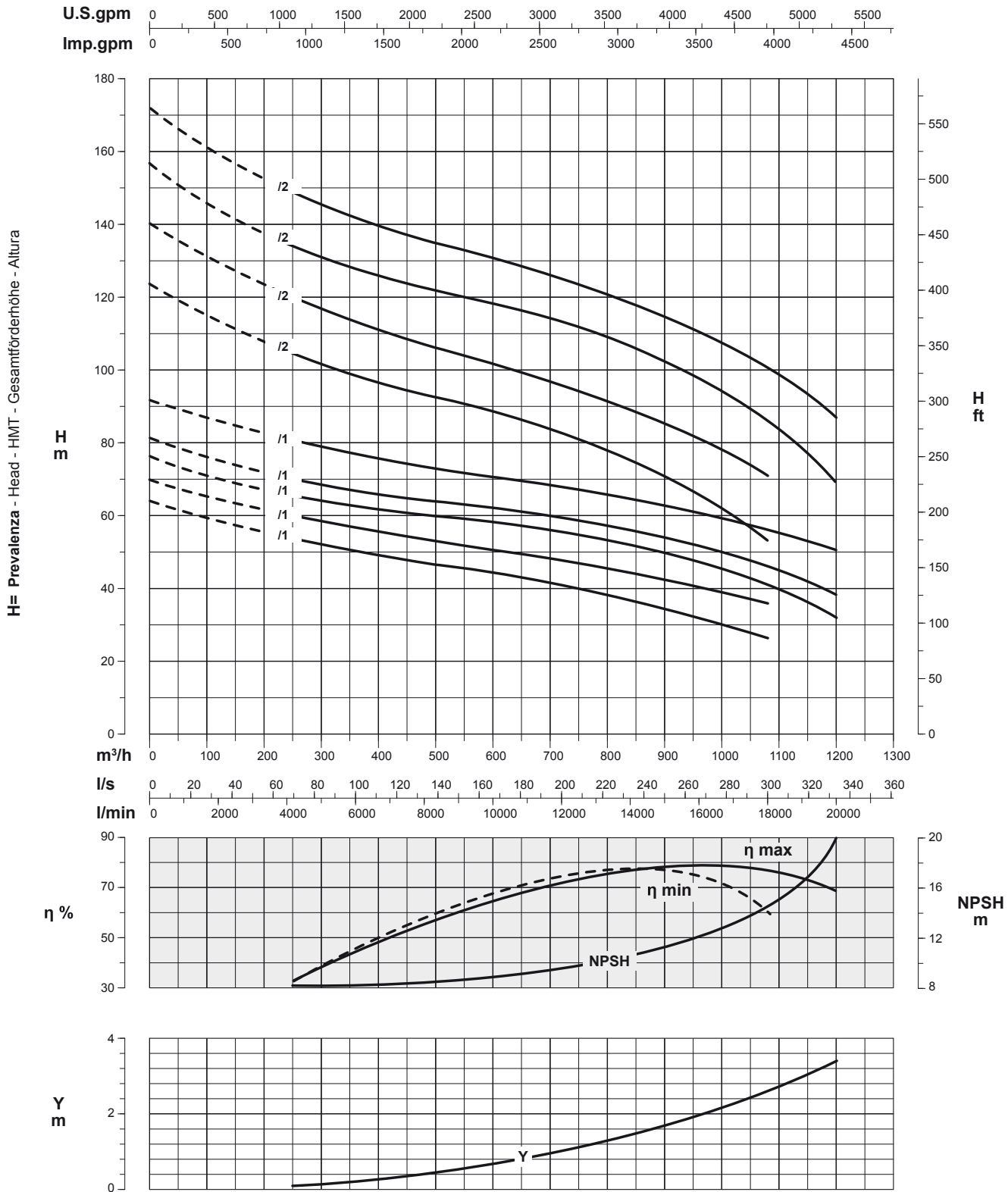
Item	Part name	Material
1	Delivery Bowl	316 Stainless Steel
2	Retaining Valve	316 Stainless Steel
3	Diffuser	316 Stainless Steel
4	Impeller	316 Stainless Steel
5	Journal Bearing	PTFE
6	Spacer Bushing	316 Stainless Steel
7	Wear Ring	POM
8	Shaft	329 Stainless Steel Duplex
9	Coupling	329 Stainless Steel Duplex
10	Suction Bowl	316 Stainless Steel
11	Intake Screen	316 Stainless Steel

FS Series



## FPS-1000FS Submersible Turbine Pump

Performances at 50Hz, 2 pole

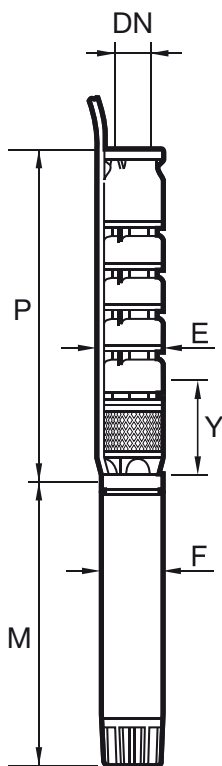


**Notes:**  
 1 = η Pump Efficiency, NPSH (metres), Y = Non return valve loss  
 2 = Curves based on density of 1000 kg/m³, viscosity of 1mm²/s, Temperature at 20°C

## FPS-1000FS Submersible Turbine Pump

### Performance and Dimensional Information

Model/Build No	kW	HP	l/min	0	4000	6000	8000	10000	12000	14000	15000	16000	17000	18000	20000
			m <sup>3</sup> /h	0	240	360	480	600	720	840	900	960	1020	1080	1200
			l/s	0	66.6	100	133.3	166.6	200	233.3	250	266.6	283.3	300	333.3
1000FS16-1E-5010130	130	175	Head (m)	63.5	55.5	50.5	46	43	40.5	38	36	33	29.5	25.5	
1000FS16-1D-5010150	150	200		69.5	61.5	57	53	49.5	47	45	43.5	41.5	38.5	35	
1000FS16-1C-5010170	170	230		75.5	68	63	59.5	56.5	54	52	50.5	48.5	45.5	42	30.5
1000FS16-1B-5010185	185	250		80.5	72.5	67.5	63.5	60.5	58	56	54.5	53	50	47	37
1000FS16-1A-5012220	220	300		91	83	77.5	73	69	66	64	63	62	59.5	57	49
1000FS16-2D-5012250	250	340		122.5	108.5	99.5	91.5	85.5	81	77	73.5	68	60.5	50.5	
1000FS16-2C-5012300	300	400		139.5	123	114	106	99.5	94.5	90.5	87.5	83	76.5	69	
1000FS16-2B-5012350	350	475		155	139	121.5	121.5	114.5	110	105.5	104	100.5	95	87.5	66
1000FS16-2A-5012400	400	540		170	153.5	143.5	134.5	127.5	122	117.5	118.5	113.5	108.5	102.5	84



Model	stages	P	M	DN	E max	F	Y	Weight PEO (kg)	Order No
1000FS16-1E-5010130	1	1260	*	10"	381	237	10000	220	96516 990605
1000FS16-1D-5010150	1	1260	*	10"	381	237	10000	220	96516 990610
1000FS16-1C-5010170	1	1260	*	10"	381	237	10000	220	96516 990615
1000FS16-1B-5010185	1	1260	*	10"	381	237	10000	220	96516 990620
1000FS16-1A-5012220	1	1260	*	10"	381	286	10000	300	96516 990625
1000FS16-2D-5012250	2	1545	*	10"	381	286	10000	300	96516 990630
1000FS16-2C-5012300	2	1545	*	10"	381	286	10000	300	96516 990635
1000FS16-2B-5012350	2	1545	*	10"	381	286	10000	300	96516 990640
1000FS16-2A-5012400	2	1545	*	10"	381	286	10000	300	96516 990645

**Notes:**

1. Dimensions in millimetres
2. Refer to Franklin motor brochure for data
3. Minimum Well diameter is 16"
4. Pump supplied with counterflange, bolts, gasket
5. Minimum submergence is 10 metres (Y)

