



Cast Iron Submersible Pumps

10"

12"

14"



Franklin Electric

Cast Iron Submersible Pumps

50-540 m³/h



The FT Series pumps have been engineered in a Cast Iron construction for efficient and reliable pumping of water for agricultural, industrial and municipal applications.

- 10": 180, 200 and 260 m³/h
- 12": 300 and 400 m³/h
- 14": 440 m³/h

Features:

- 100% factory tested
- Cast Iron discharge and suction bracket
- Cast iron bowls
- 10", 12" and 14" sizes
- Cast iron impellers and diffusers
- Impellers locked onto shaft with keys
- Rubber bearings
- Integrated Non Return valve on all models
- Stainless Steel pump shaft for increased durability
- All pumps suit Franklin Electric motors
- Flanged discharge
- Maximum running time at zero delivery is 2 minutes
- Optional cataphoresis coatings
- Optional 316 stainless steel impellers



Model Number Explanation

Example: 260 FT 10 - 5A - 5 10 150

260 = Flow in m³/hr

FT = Series

10 = Pump End

5 = Stages

A = Trim

5 = 50 Hz

10 = Motor Size

150 = 150 kW

10" FPS-FT 50 Hz Submersible Turbine Pump

Ordering Information

M ³ /H	Model	kW	HP	Stages	Trim	Motor	Discharge	ORDER No.	Build No
180	FPS-180FT-1B	18.5	25	1	B	6"	150	96510180105	180FT10-1B-506018
	FPS-180FT-2I	22	30	2	I	6"	150	96510180110	180FT10-2I-506022
	FPS-180FT-2F	30	40	2	F	6"	150	96510180115	180FT10-2F-506030
	FPS-180FT-2C	37	50	2	C	8"	150	96510180120	180FT10-2C-508037
	FPS-180FT-3G	45	60	3	G	8"	150	96510180125	180FT10-3G-508045
	FPS-180FT-3C	55	75	3	C	8"	150	96510180130	180FT10-3C-508055
	FPS-180FT-4B	75	100	4	B	8"	150	96510180135	180FT10-4B-508075
	FPS-180FT-5B	93	125	5	B	8"	150	96510180140	180FT10-5B-508093
	FPS-180FT-6B	110	150	6	B	10"	150	96510180145	180FT10-6B-510110
	FPS-180FT-7B	130	175	7	B	10"	150	96510180150	180FT10-7B-510130
	FPS-180FT-8B	150	200	8	B	10"	150	96510180155	180FT10-8B-510150
	FPS-180FT-10B	185	250	10	B	10"	150	96510180160	180FT10-10B-510185
200	FPS-200FT-1A	22	30	1	A	6"	150	96510200105	200FT10-1A-506022
	FPS-200FT-2G	30	40	2	G	6"	150	96510200110	200FT10-2G-506030
	FPS-200FT-2D	37	50	2	D	8"	150	96510200115	200FT10-2D-508037
	FPS-200FT-3H	45	60	3	H	8"	150	96510200120	200FT10-3H-508045
	FPS-200FT-3D	55	75	3	D	8"	150	96510200125	200FT10-3D-508055
	FPS-200FT-4D	75	100	4	D	8"	150	96510200130	200FT10-4D-508075
	FPS-200FT-5D	93	125	5	D	8"	150	96510200135	200FT10-5D-508093
	FPS-200FT-6D	110	150	6	D	10"	150	96510200140	200FT10-6D-510110
	FPS-200FT-7D	130	175	7	D	10"	150	96510200145	200FT10-7D-510130
	FPS-200FT-8D	150	200	8	D	10"	150	96510200150	200FT10-8D-510150
	FPS-200FT-10D	185	250	10	D	10"	150	96510200155	200FT10-10D-510185
260	FPS-260FT-1C	30	40	1	C	6"	150	96510260105	260FT10-1C-506030
	FPS-260FT-2P	37	50	2	P	8"	150	96510260110	260FT10-2P-508037
	FPS-260FT-2M	45	60	2	M	8"	150	96510260115	260FT10-2M-508045
	FPS-260FT-2D	55	75	2	D	8"	150	96510260120	260FT10-2D-508055
	FPS-260FT-3G	75	100	3	G	8"	150	96510260125	260FT10-3G-508075
	FPS-260FT-3B	93	125	3	B	8"	150	96510260130	260FT10-3B-508093
	FPS-260FT-4D	110	150	4	D	10"	150	96510260135	260FT10-4D-510110
	FPS-260FT-5F	130	175	5	F	10"	150	96510260140	260FT10-5F-510130
	FPS-260FT-5A	150	200	5	A	10"	150	96510260145	260FT10-5A-510150
	FPS-260FT-6D	185	250	6	D	10"	150	96510260150	260FT10-6D-510185

12" FPS-FT 50 Hz Submersible Turbine Pump

Ordering Information

M ³ /H	Model	kW	HP	Stages	Trim	Motor	Discharge	ORDER No.	Build No
300	FPS-300FT-1B	45	60	1	B	8"	175	96512300105	300FT12-1B-508045
	FPS-300FT-1A	55	75	1	A	8"	175	96512300110	300FT12-1A-508055
	FPS-300FT-2C	75	100	2	C	8"	175	96512300115	300FT12-2C-508075
	FPS-300FT-2B	93	125	2	B	8"	175	96512300120	300FT12-2B-508093
	FPS-300FT-2A	110	150	2	A	10"	175	96512300125	300FT12-2A-510110
	FPS-300FT-3B	130	175	3	B	10"	175	96512300130	300FT12-3B-510130
	FPS-300FT-3A	150	200	3	A	10"	175	96512300135	300FT12-3A-510150
	FPS-300FT-4A	185	250	4	A	10"	175	96512300140	300FT12-4A-510185
	FPS-300FT-6A	220	300	6	A	12"	175	96512300145	300FT12-6A-512220
	FPS-300FT-5A	250	340	5	A	12"	175	96512300150	300FT12-5A-512250
400	FPS-400FT-1A	45	60	1	A	8"	175	96512400105	400FT12-1A-508045
	FPS-400FT-1A	55	75	1	A	8"	175	96512400110	400FT12-1A-508055
	FPS-400FT-2B	93	125	2	B	8"	175	96512400115	400FT12-2B-508093
	FPS-400FT-2A	110	150	2	A	10"	175	96512400120	400FT12-2A-510110
	FPS-400FT-3B	130	175	3	B	10"	175	96512400125	400FT12-3B-510130
	FPS-400FT-3A	150	200	3	A	10"	175	96512400130	400FT12-3A-510150
	FPS-400FT-4B	185	250	4	B	10"	175	96512400135	400FT12-4B-510185
	FPS-400FT-4A	220	300	4	A	12"	175	96512400140	400FT12-4A-512220
	FPS-400FT-5A	250	340	5	A	12"	175	96512400145	400FT12-5A-512335

14" FPS-FT 50 Hz Submersible Turbine Pump

Ordering Information

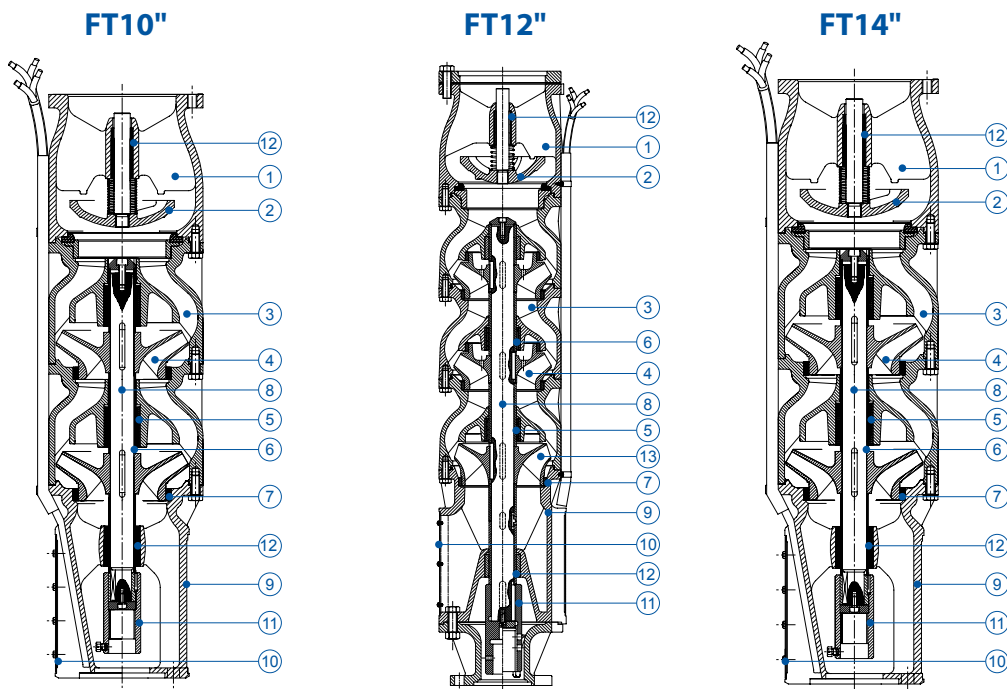
440	FPS-440FT-1E	55	75	1	E	8"	200	96514440105	440FT14-1E-508055
	FPS-440FT-1A	75	100	1	A	8"	200	96514440110	440FT14-1A-508075
	FPS-440FT-2G	93	125	2	G	10"	200	96514440115	440FT14-2G-510093
	FPS-440FT-2D	110	150	2	D	10"	200	96514440120	440FT14-2D-510110

FPS-FT 50 Hz Submersible Turbine Pump

Part and material specifications

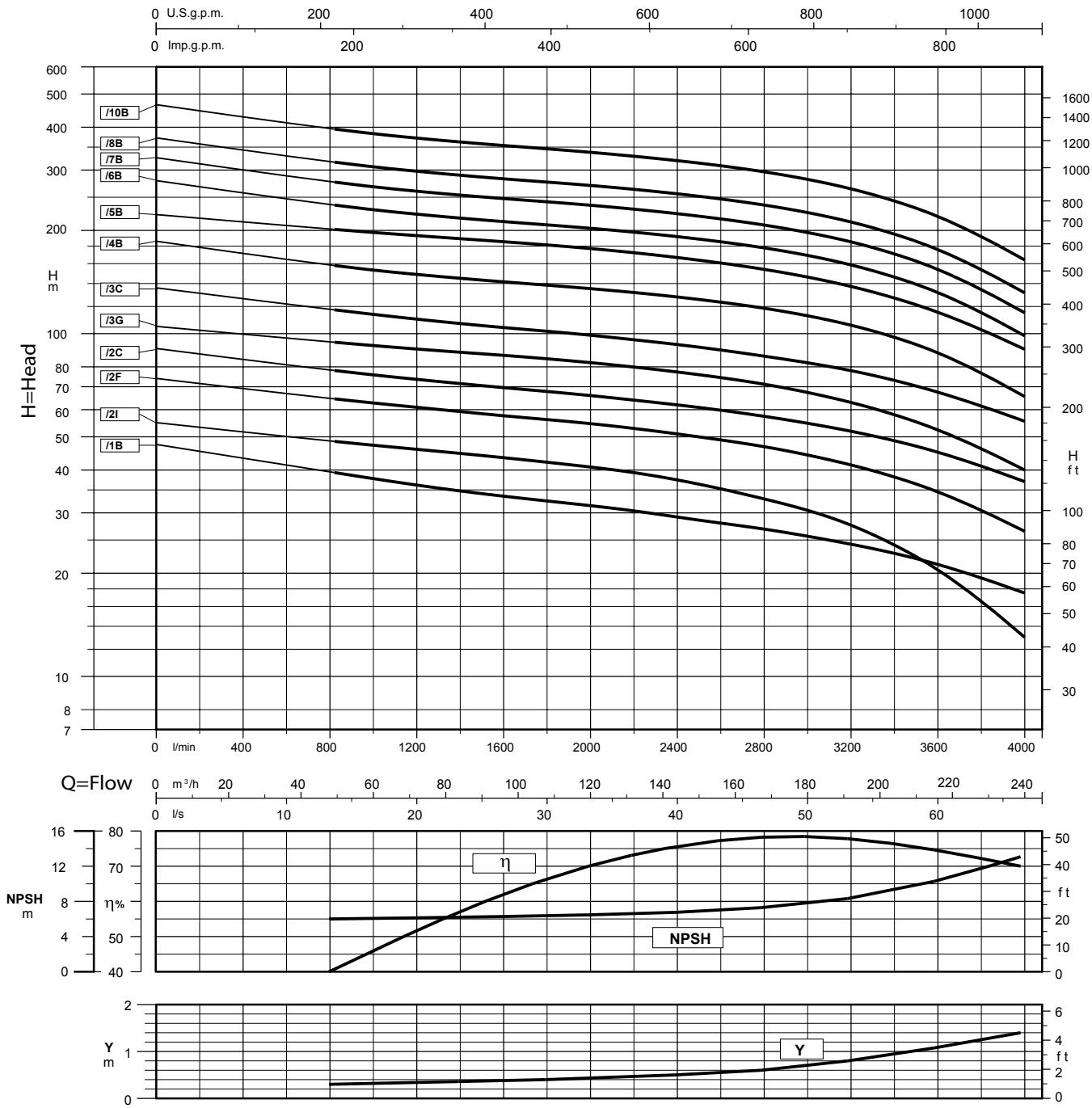
Item	Part name	Material	FT10	FT12	FT14
1	Delivery Bowl	Cast Iron	•	•	•
2	Retaining Valve	Cast Iron	•	•	•
3	Diffuser	Cast Iron	•	•	•
4	Impeller	Cast Iron	•	•	•
5	Journal Bearing	Rubber	•	•	•
6	Spacer Bushing	Bronze	•	•	•
7	Wear Ring	Stainless Steel	•		
7	Wear Ring	Bronze		•	•
8	Shaft	Stainless Steel	•	•	•
9	Suction Bowl	Cast Iron	•	•	•
10	Intake Screen	Stainless Steel	•	•	•
11	Coupling	Stainless Steel	•	•	•
12	Journal Bearing	Rubber	•	•	•
13	Suction Impeller	Cast Iron	O	•	O

- Standard materials
- O Optional material



10" Cast Iron

FPS-180FT Performance Curve – 50Hz

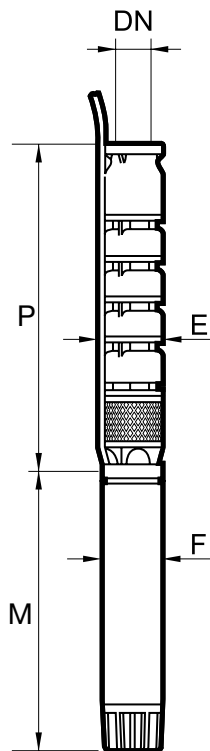


Notes:
1 = η Pump Efficiency, NPSH (metres), Y = Non return valve loss
2 = Curves based on density of 1000 kg/m³, viscosity of 1mm²/s, Temperature at 20°C

FPS-180FT

Performance and Dimensional Information

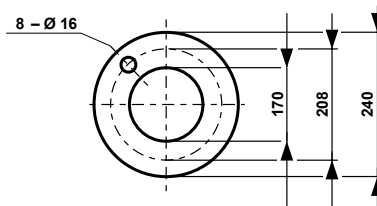
Build No.	kW	HP	Head (m)	l/min	0	800	1200	1600	1900	2200	2500	2800	3000	3200	3400	3700	4000
				m ³ /h	0	48	72	96	114	132	150	168	180	192	204	222	240
				l/s	0	13	20	27	32	37	42	47	50	53	57	62	67
FPS-180FT10-1B-506018	18.5	25	Head (m)	48	40	36	34	32	31	29	27	26	25	23	21	18	
FPS-180FT10-2I-506022	22	30		55	49	46	44	42	40	37	33	31	28	25	20	13	
FPS-180FT10-2F-506030	30	40		74	65	61	58	56	53	50	47	45	42	39	33	27	
FPS-180FT10-2C-508037	37	50		91	78	74	70	67	64	61	58	55	52	49	44	37	
FPS-180FT10-3G-508045	45	60		105	95	90	87	84	80	76	72	68	64	59	50	40	
FPS-180FT10-3C-508055	55	75		136	118	110	104	101	96	92	86	83	78	74	65	56	
FPS-180FT10-4B-508075	75	100		186	158	149	142	137	132	126	119	113	107	99	84	66	
FPS-180FT10-5B-508093	93	125		233	197	186	177	172	165	158	149	142	133	123	105	82	
FPS-180FT10-6B-510110	110	150		280	237	223	212	206	198	189	179	170	160	148	126	99	
FPS-180FT10-7B-510130	130	175		326	276	260	248	240	231	221	208	198	187	173	147	115	
FPS-180FT10-8B-510150	150	200		373	316	297	283	274	264	252	238	227	213	197	168	132	
FPS-180FT10-10B-510185	185	250		466	394	371	354	343	330	315	298	283	266	246	210	164	



Model	P	M	DN	E max	F	Weight (kg)	Order No.
FPS-180FT10-1B	667	*	170	247	142	62	96510180105
FPS-180FT10-2I	847	*	170	247	142	82	96510180110
FPS-180FT10-2F	847	*	170	247	142	82	96510180115
FPS-180FT10-2C	867	*	170	249	190	87	96510180120
FPS-180FT10-3G	1047	*	170	249	190	108	96510180125
FPS-180FT10-3C	1047	*	170	249	190	109	96510180130
FPS-180FT10-4B	1227	*	170	249	190	130	96510180135
FPS-180FT10-5B	1407	*	170	249	190	151	96510180140
FPS-180FT10-6B	1671	*	170	249	237	184	96510180145
FPS-180FT10-7B	1851	*	170	249	237	208	96510180150
FPS-180FT10-8B	2031	*	170	249	237	229	96510180155
FPS-180FT10-10B	2390	*	170	249	237	271	96510180160

Notes:

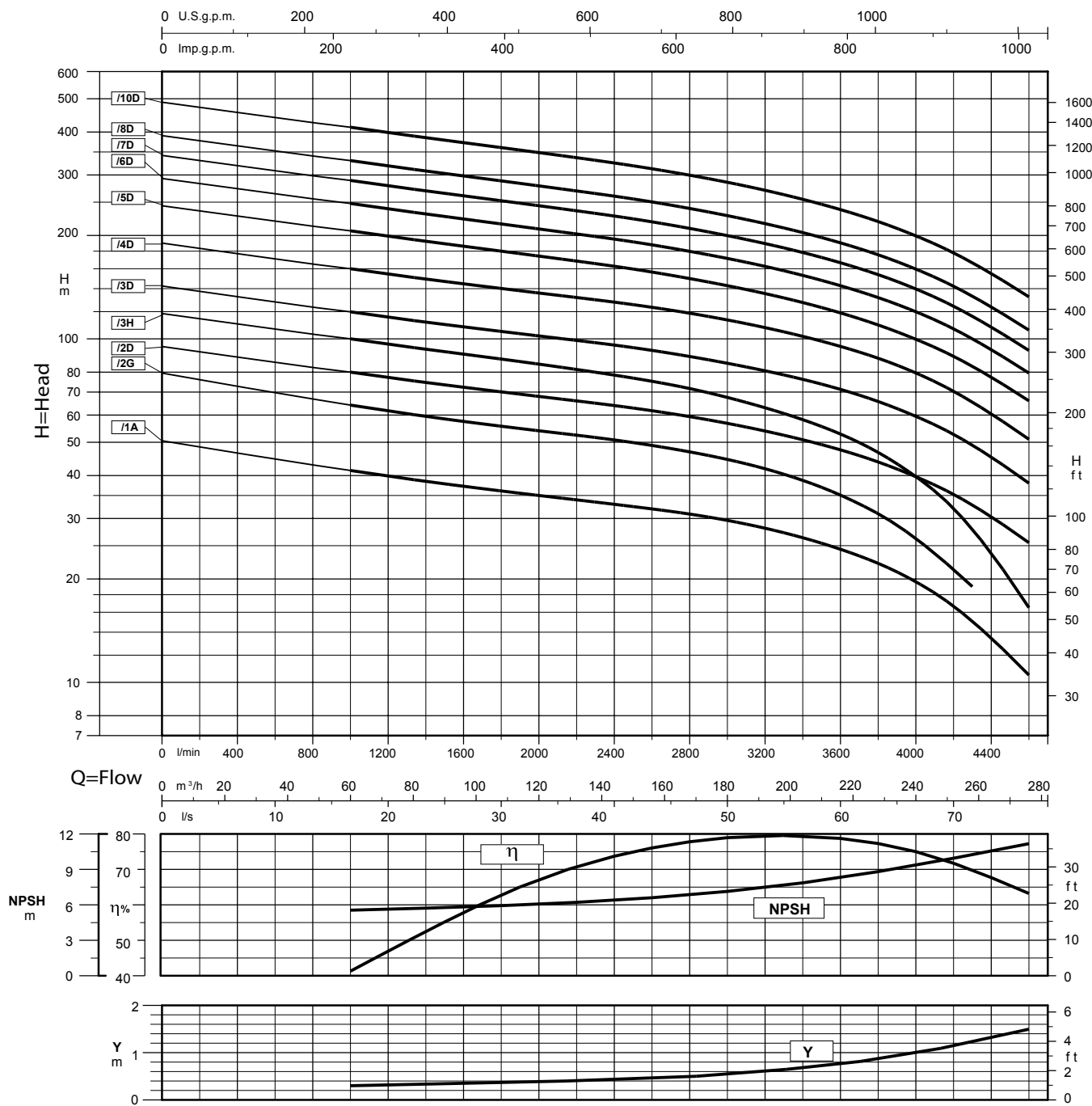
1. Dimensions in millimetres
2. Refer to Franklin motor brochure for data



Outlet flange
Dimensions

10" Cast Iron

FPS-200FT Performance Curve – 50Hz



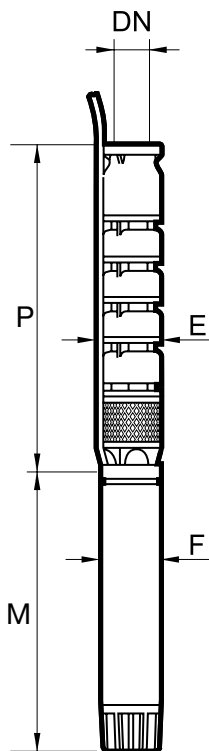
Notes:

- 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-200FT

Performance and Dimensional Information

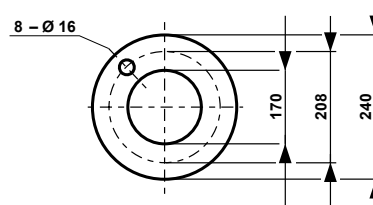
Build No.	kW	HP	l/min	0	1000	1800	2200	2500	2800	3100	3300	3500	3700	4000	4300	4600
				0	60	108	132	150	168	186	198	210	222	240	258	276
				0	17	30	37	42	47	52	55	58	62	67	72	77
FPS-200FT10-1A-506022	22	30	Head (m)	51	41	36	34	33	31	29	28	26	24	20	16	11
FPS-200FT10-2G-506030	30	40		80	64	56	53	50	47	44	41	38	34	27	19	
FPS-200FT10-2D-508037	37	50		95	80	70	66	63	60	56	53	50	46	40	34	26
FPS-200FT10-3H-508045	45	60		119	100	88	82	77	72	66	61	56	51	41	30	17
FPS-200FT10-3D-508055	55	75		143	119	105	99	95	89	83	79	74	69	60	50	38
FPS-200FT10-4D-508075	75	100		190	159	140	132	126	119	111	105	99	92	81	67	51
FPS-200FT10-5D-508093	93	125		244	206	180	169	160	150	140	132	124	115	101	85	66
FPS-200FT10-6D-510110	110	150		293	247	216	202	192	180	168	159	149	138	121	102	80
FPS-200FT10-7D-510130	130	175		342	288	253	236	224	210	195	185	174	161	141	118	93
FPS-200FT10-8D-510150	150	200		391	329	289	270	256	240	223	211	198	184	161	135	106
FPS-200FT10-10D-510185	185	250		489	412	361	337	320	300	279	264	248	230	201	169	133



Model	P	M	DN	E _{max}	F	Weight (kg)	Order No.
FPS-200FT10-1A	667	*	170	247	142	62	96510200105
FPS-200FT10-2G	847	*	170	247	142	82	96510200110
FPS-200FT10-2D	867	*	170	249	190	87	96510200115
FPS-200FT10-3H	1047	*	170	247	190	108	96510200120
FPS-200FT10-3D	1047	*	170	249	190	108	96510200125
FPS-200FT10-4D	1227	*	170	249	190	130	96510200130
FPS-200FT10-5D	1407	*	170	249	190	151	96510200135
FPS-200FT10-6D	1671	*	170	249	237	185	96510200140
FPS-200FT10-7D	1851	*	170	249	237	208	96510200145
FPS-200FT10-8D	2031	*	170	249	237	229	96510200150
FPS-200FT10-10D	2391	*	170	249	237	271	96510200155

Notes:

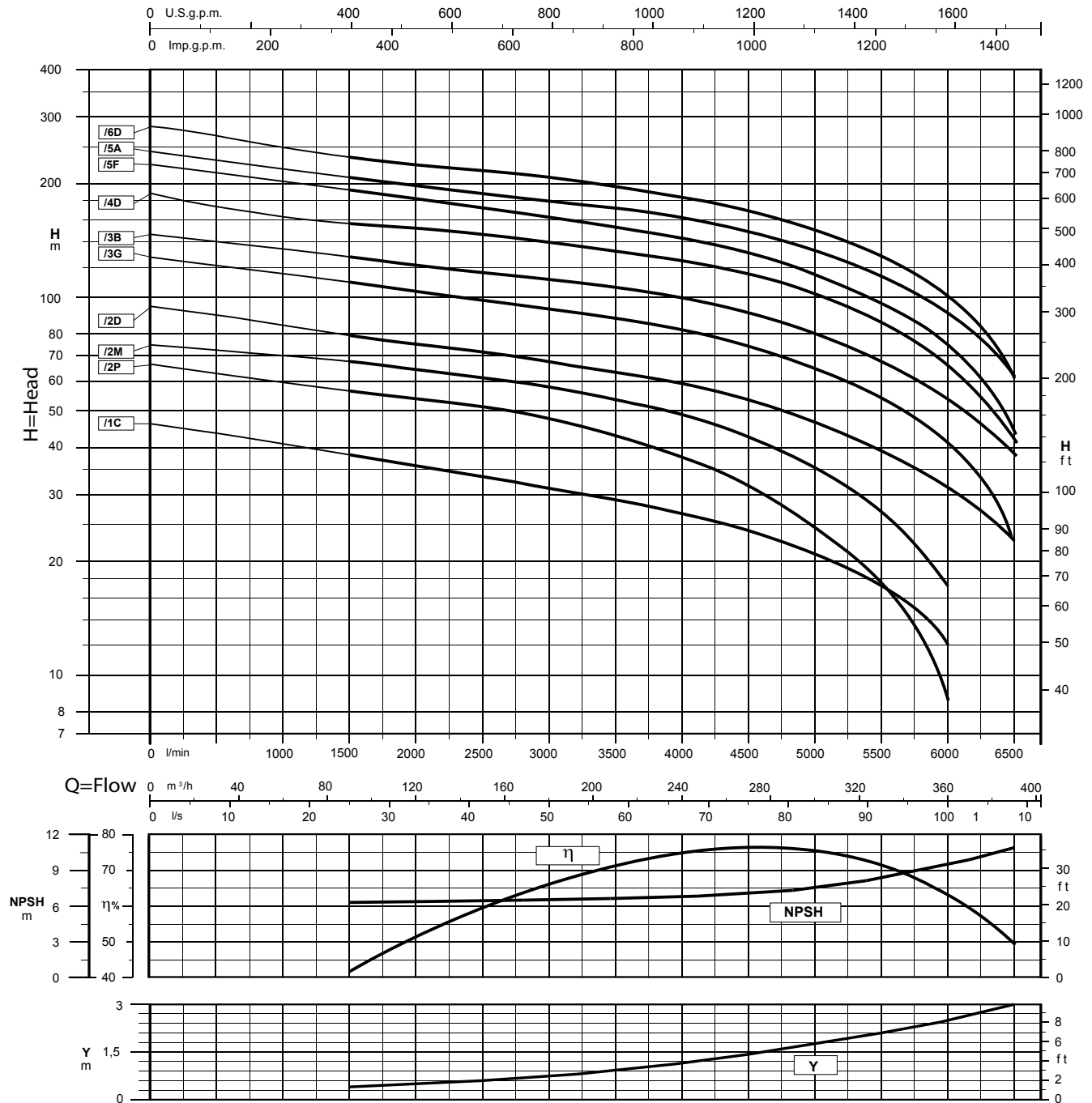
1. Dimensions in millimetres
2. Refer to Franklin motor brochure for data



Outlet flange
Dimensions

10" Cast Iron

FPS-260FT Performance Curve – 50Hz



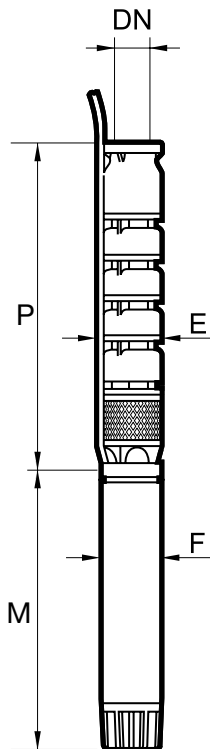
Notes:

- 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-260FT

Performance and Dimensional Information

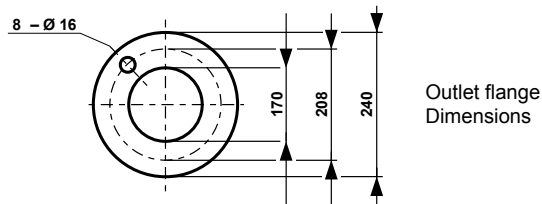
Build No.	kW	HP	Head (m)	l/min	0	1500	2000	2500	3000	3500	4000	4500	4750	5000	5500	6000	6500
				m³/h	0	90	120	135	180	210	240	270	285	300	330	360	390
				l/s	0	25	33	42	50	58	67	75	79	83	92	100	108
FPS-260FT10-1C-506030	30	40	Head (m)	47	38	36	34	31	30	27	25	23	21	17	12		
FPS-260FT10-2P-508037	37	50		67	57	54	51	47	43	38	32	29	25	18	9		
FPS-260FT10-2M-508045	45	60		75	68	65	61	57	54	49	43	39	35	27	18		
FPS-260FT10-2D-508055	55	75		94	80	75	71	68	64	59	54	50	47	40	32	23	
FPS-260FT10-3G-508075	75	100		128	110	104	99	94	89	82	74	70	65	54	41	24	
FPS-260FT10-3B-508093	93	125		145	130	124	118	112	106	99	92	86	81	68	56	39	
FPS-260FT10-4D-510110	110	150		188	159	151	145	139	132	124	115	109	102	86	68	42	
FPS-260FT10-5F-510130	130	175		221	191	181	173	164	154	145	132	124	116	96	71	43	
FPS-260FT10-5A-510150	150	200		245	207	198	189	182	173	164	152	145	137	117	93	62	
FPS-260FT10-6D-510185	185	250		282	238	227	217	208	198	187	172	163	153	129	102	61	



Model	P	M	DN	E _{max}	F	Weight (kg)	Order No.
FPS-260FT10-1C	667	*	170	247	142	61	96510260105
FPS-260FT10-2P	867	*	170	249	190	86	96510260110
FPS-260FT10-2M	867	*	170	247	190	86	96510260115
FPS-260FT10-2D	867	*	170	247	190	87	96510260120
FPS-260FT10-3G	1047	*	170	247	190	108	96510260125
FPS-260FT10-3B	1047	*	170	249	190	109	96510260130
FPS-260FT10-4D	1311	*	170	249	237	130	96510260135
FPS-260FT10-5F	1491	*	170	249	237	151	96510260140
FPS-260FT10-5A	1491	*	170	249	237	151	96510260145
FPS-260FT10-6D	1671	*	170	249	237	185	96510260150

Notes:

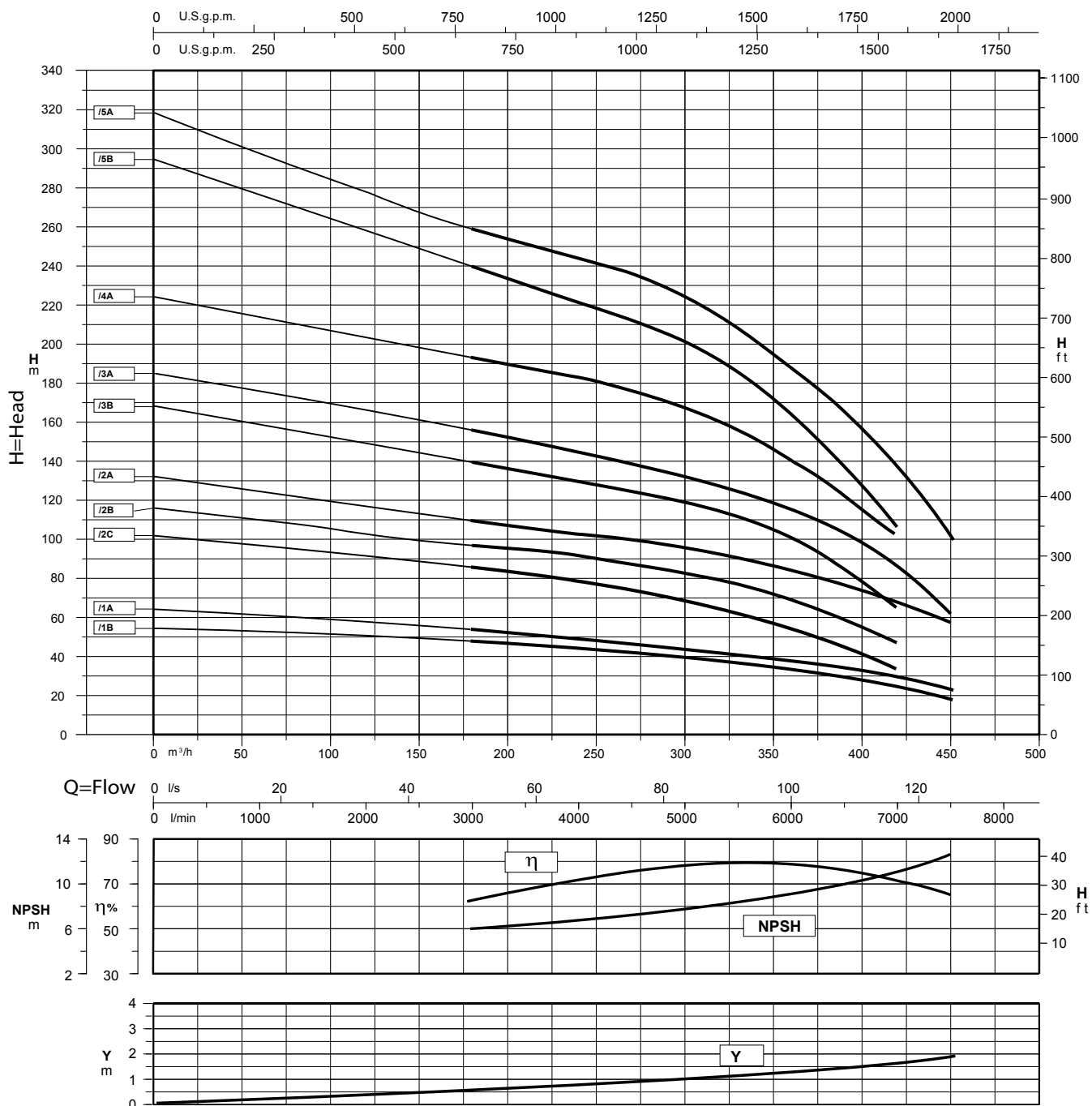
1. Dimensions in millimetres
2. Refer to Franklin motor brochure for data



Outlet flange
Dimensions

12" Cast Iron

FPS-300FT Performance Curve – 50Hz



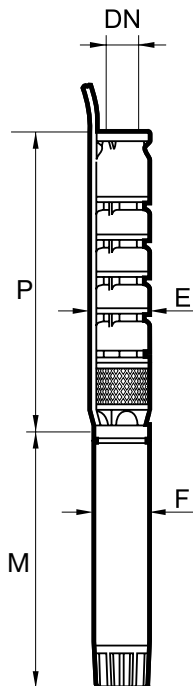
Notes:

- 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-300FT

Performance and Dimensional Information

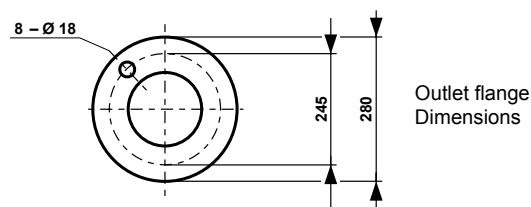
Build No.	kW	HP		l/min	0	3000	3500	4000	4500	4750	5000	5250	5500	6000	6500	7000	7500
				m³/h	0	180	210	240	270	285	300	315	330	360	390	420	450
				l/s	0	50	58	67	75	79	83	88	92	100	108	117	125
FPS-300FT12-1B-508045	45	60	Head (m)	56	46	45	43	42	41	40	38	37	34	30	25	20	
FPS-300FT12-1A-508055	55	75		63	51	50	48	47	46	45	44	43	39	36	31	26	
FPS-300FT12-2C-508075	75	100		101	85	83	79	75	73	70	67	63	54	44	33		
FPS-300FT12-2B-508093	93	125		118	98	95	92	89	87	84	81	78	69	59	47		
FPS-300FT12-2A-510110	110	150		131	108	105	103	100	98	97	95	92	86	78	69	58	
FPS-300FT12-3B-510130	130	175		169	139	134	130	125	122	120	117	112	102	87	65		
FPS-300FT12-3A-510150	150	200		185	154	149	144	140	137	134	131	127	118	105	87	62	
FPS-300FT12-4A-510185	185	250		225	193	188	183	176	172	167	162	156	140	123	102		
FPS-300FT12-5B-512220	220	300		296	238	230	222	214	208	202	193	184	164	138	105		
FPS-300FT12-5A-512250	250	340		320	259	252	245	236	231	225	218	208	188	167	138	100	



Model	P	M	DN	E _{max}	F	Weight (kg)	Order No.
FPS-300FT12-1B	899	*	175	298	190	136	96512300105
FPS-300FT12-1A	899	*	175	298	190	136	96512300110
FPS-300FT12-2C	1099	*	175	298	190	174	96512300115
FPS-300FT12-2B	1099	*	175	298	190	174	96512300120
FPS-300FT12-2A	1124	*	175	298	237	178	96512300125
FPS-300FT12-3B	1324	*	175	298	237	217	96512300130
FPS-300FT12-3A	1324	*	175	298	237	217	96512300135
FPS-300FT12-4A	1524	*	175	298	237	255	96512300140
FPS-300FT12-5B	1724	*	175	298	286	294	96512300145
FPS-300FT12-5A	1724	*	175	298	286	294	96512300150

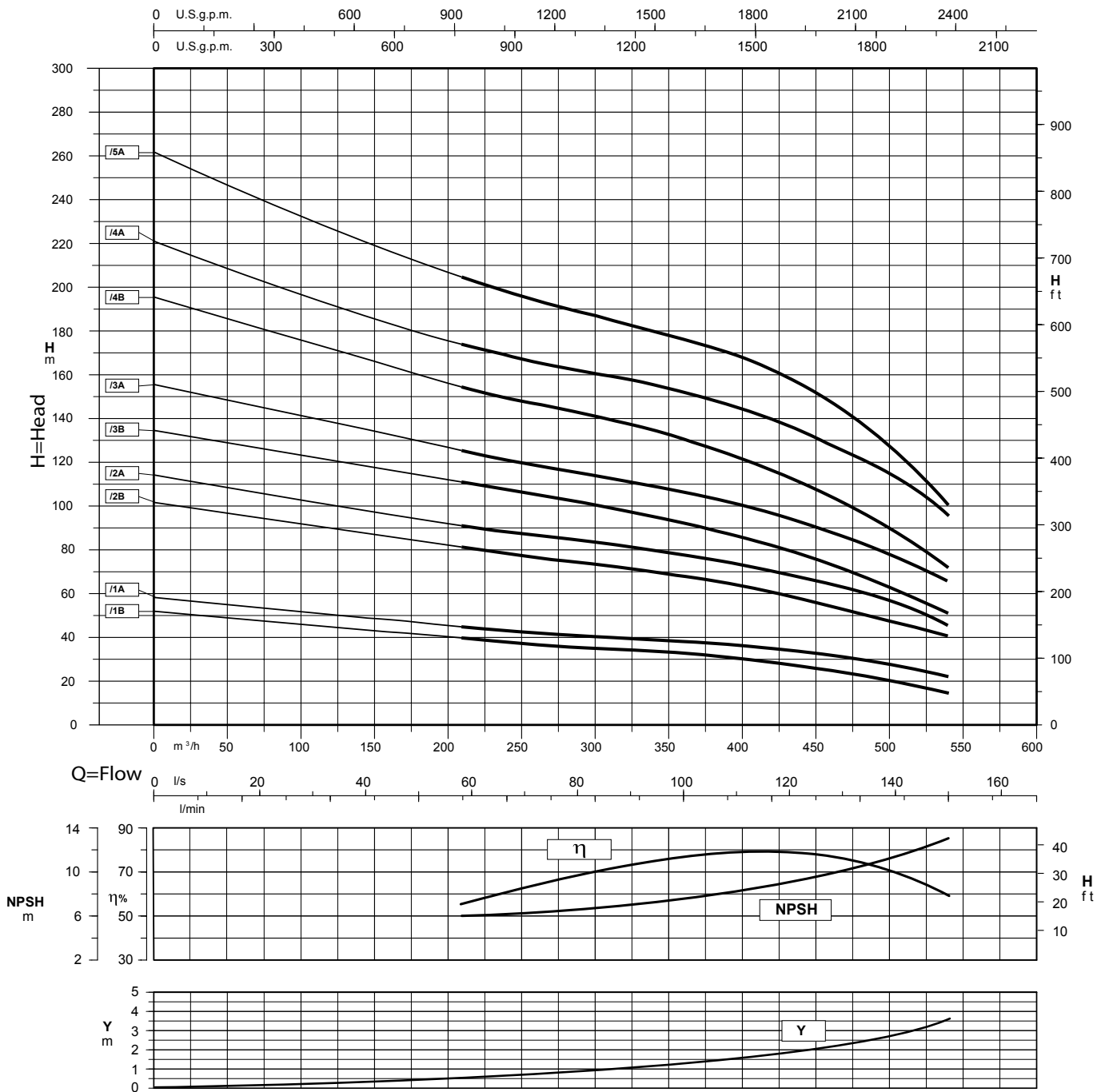
Notes:

1. Dimensions in millimetres
2. Refer to Franklin motor brochure for data



12" Cast Iron

FPS-400FT Performance Curve – 50Hz



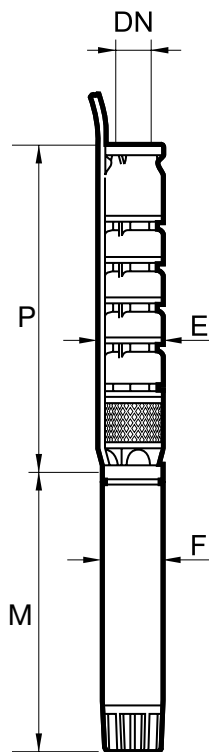
Notes:

- 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-400FT

Performance and Dimensional Information

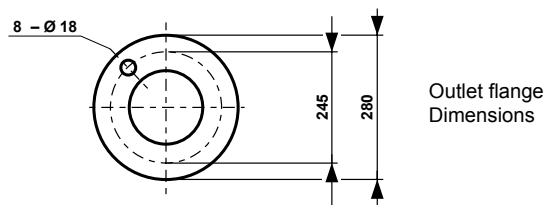
Build No.	kW	HP	l/min m³/h l/s	0	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000
				0	210	240	270	300	330	360	390	420	450	480	510	540
				0	58	67	75	83	92	100	108	117	125	133	142	150
FPS-400FT12-1B-508045	45	60	Head (m)	52	40	38	37	35	34	33	31	29	26	23	19	14
FPS-400FT12-1A-508055	55	75		59	45	43	42	40	39	38	37	35	33	30	27	22
FPS-400FT12-2B-508093	93	125		102	81	78	76	73	71	68	65	61	56	52	46	41
FPS-400FT12-2A-510110	110	150		115	91	88	86	83	81	78	75	71	66	61	54	46
FPS-400FT12-3B-510130	130	175		134	111	108	104	101	97	93	88	82	76	68	60	51
FPS-400FT12-3A-510150	150	200		157	124	121	117	114	110	107	103	97	91	84	76	67
FPS-400FT12-4B-510185	185	250		196	154	150	145	141	136	130	124	117	108	97	86	72
FPS-400FT12-4A-512220	220	300		221	174	169	165	161	157	152	147	140	131	122	111	96
FPS-400FT12-5A-512250	250	340		261	204	198	193	187	182	177	171	162	152	139	122	100



Model	P	M	DN	E max	F	Weight (kg)	Order No.
FPS-400FT12-1B	899	*	175	298	190	134	96512400105
FPS-400FT12-1A	899	*	175	298	190	134	96512400110
FPS-400FT12-2B	1099	*	175	298	190	170	96512400115
FPS-400FT12-2A	1124	*	175	298	237	174	96512400120
FPS-400FT12-3B	1324	*	175	298	237	211	96512400125
FPS-400FT12-3A	1324	*	175	298	237	211	96512400130
FPS-400FT12-4B	1524	*	175	298	237	247	96512400135
FPS-400FT12-4A	1524	*	175	298	286	247	96512400140
FPS-400FT12-5A	1724	*	175	298	286	284	96512400145

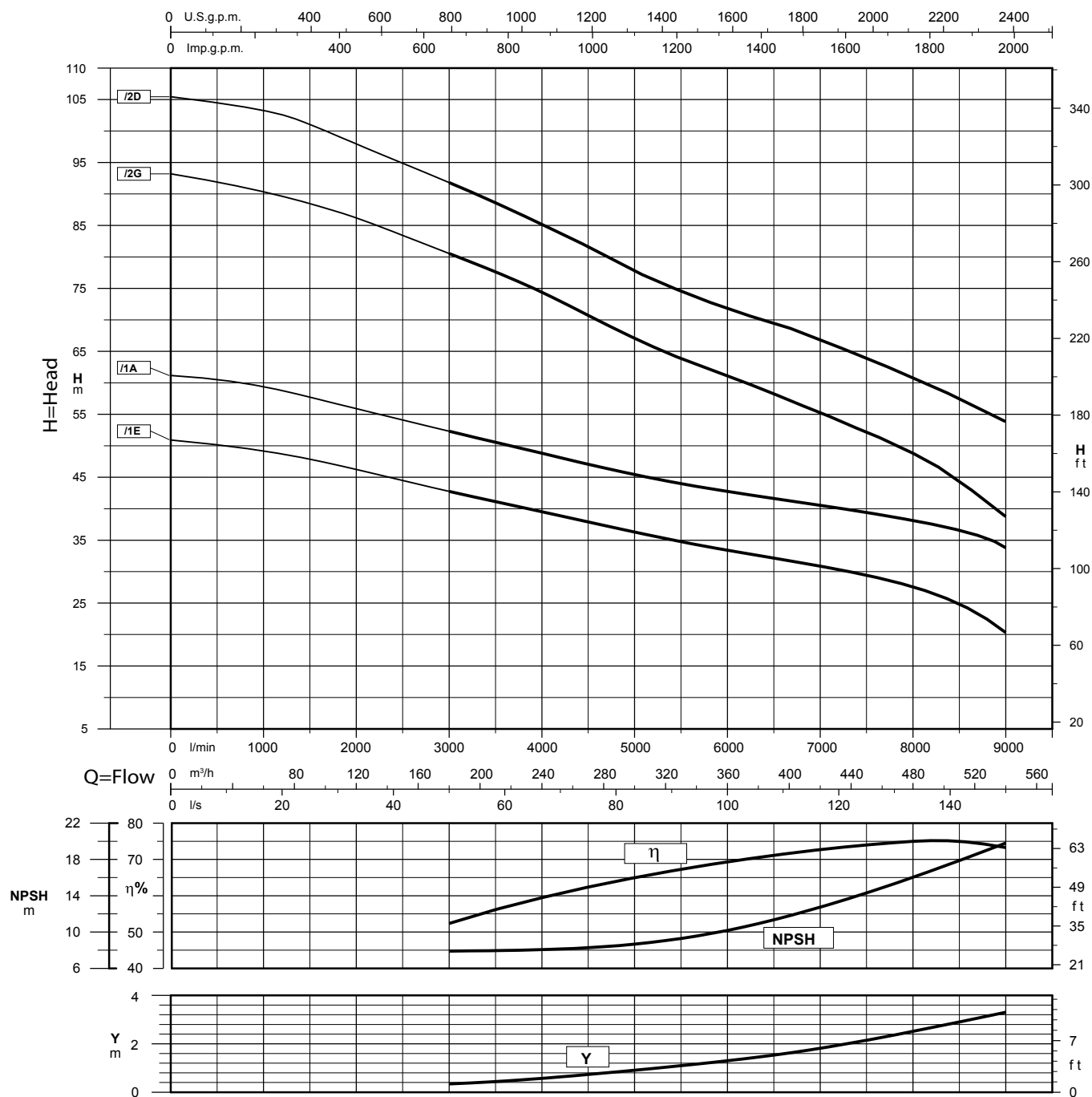
Notes:

1. Dimensions in millimetres
2. Refer to Franklin motor brochure for data



14" Cast Iron

FPS-440FT Performance Curve – 50Hz



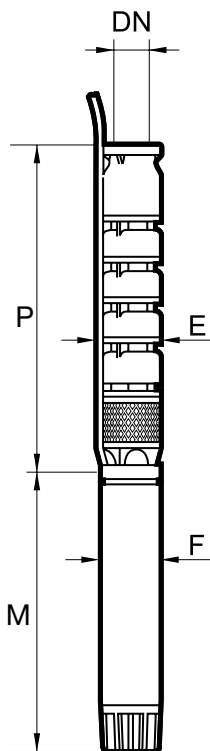
Notes:

- 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-440FT

Performance and Dimensional Information

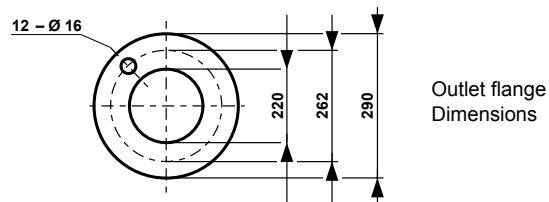
Build No.	kW	HP		l/min	0	3000	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000
				m³/h	0	180	240	270	300	330	360	390	420	450	480	510	540
				l/s	0	50	67	75	83	92	100	108	117	125	133	142	150
FPS-440FT14-1E-508055	55	75	Head (m)	51	43	40	38	36	35	33	32	31	29	28	25	20	
FPS-440FT14-1A-508075	75	100		61	52	49	47	45	44	43	42	41	40	39	37	34	
FPS-440FT14-2G-510093	93	125		93	81	75	71	67	64	61	58	55	53	50	45	39	
FPS-440FT14-2D-510110	110	150		106	92	85	82	78	75	72	69	67	64	61	58	54	



Model	P	M	DN	E max	F	Weight (kg)	Order No.
FPS-440FT14-1E	893	*	220	310	190	97	96514440105
FPS-440FT14-1A	893	*	220	310	190	97	96514440110
FPS-440FT14-2G	1118	*	220	310	237	128	96514440115
FPS-440FT14-2D	1118	*	220	310	237	132	96514440120

Notes:

- Dimensions in millimetres
- Refer to Franklin motor brochure for data



Outlet flange
Dimensions

Notes

Notes



Franklin Electric

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