



4" Product data

Stainless steel submersible bore well pumps



Construction

- Submersible motor & pumps for deep wells of 4" (DN 100 mm).
- Size for connection to the motor according to NEMA standards.
- Delivery casing with built-in non-return valve.
- All standard pumps are completely manufactured out of stainless steel AISI 304 sheet metal.
- Impeller:
 - Radial flow impellers
MSP2, MSP3, MSP5
 - Mixed flow impellers
MSP8, MSP14
- Connection : Screwed pipe connection with BSP thread as standard.

Application

- Water supply
- Irrigation
- Civil
- Industrial
- Fire fighting

Performance range

- Flow range: Max. 18.8m³/h
- Head range: Max. 547m

Operating conditions

- Liquid temperature: 0°C to +45°C
- Max. sand content into the water: 50 g/m³
- Max. starts per hour: 30 at regular intervals
- Direction of rotation: Clockwise as seen from the pump coupling side

Special construction on request

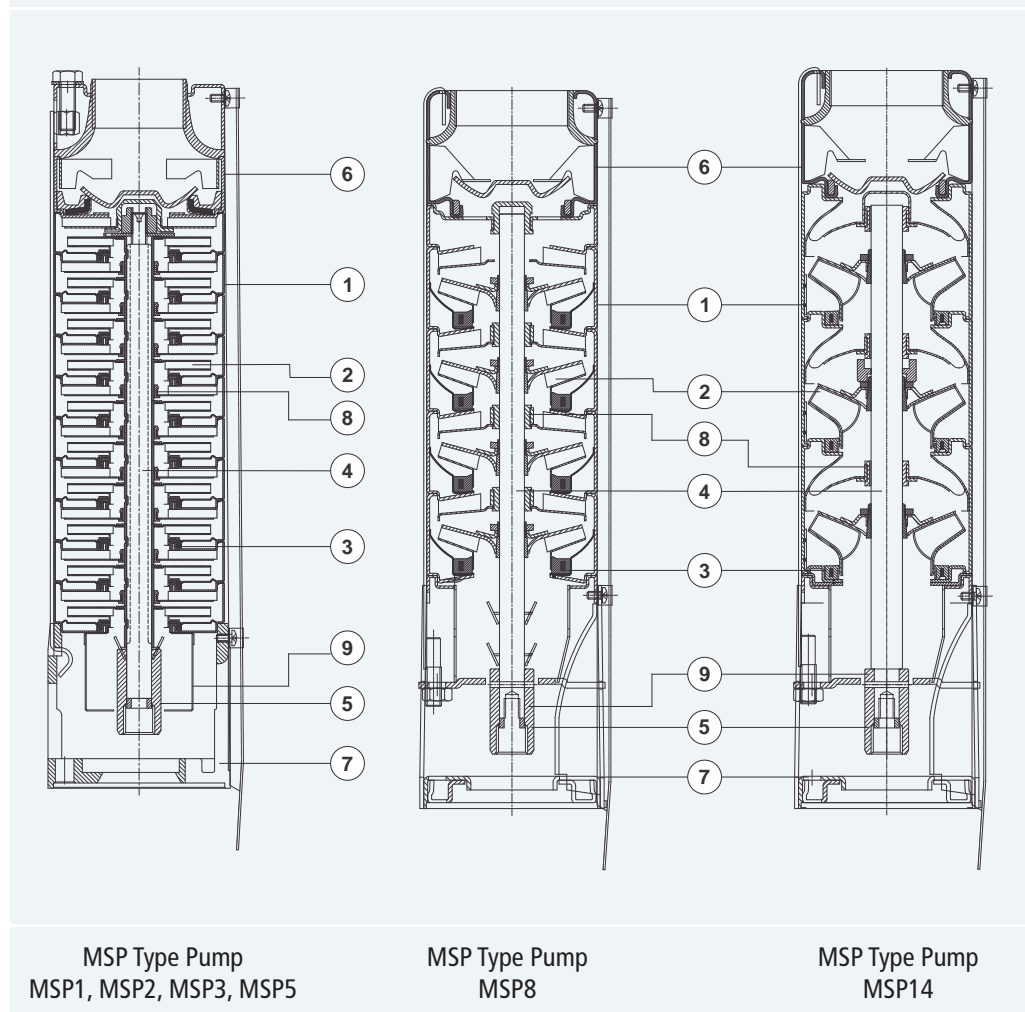
- Also available in stainless steel AISI 316 material (for sea water application).
- Also available with NPT thread pipe connection.



4" Construction

Stainless steel submersible bore well pumps

Sectional Drawing



MSP Type Pump
 MSP1, MSP2, MSP3, MSP5

MSP Type Pump
 MSP8

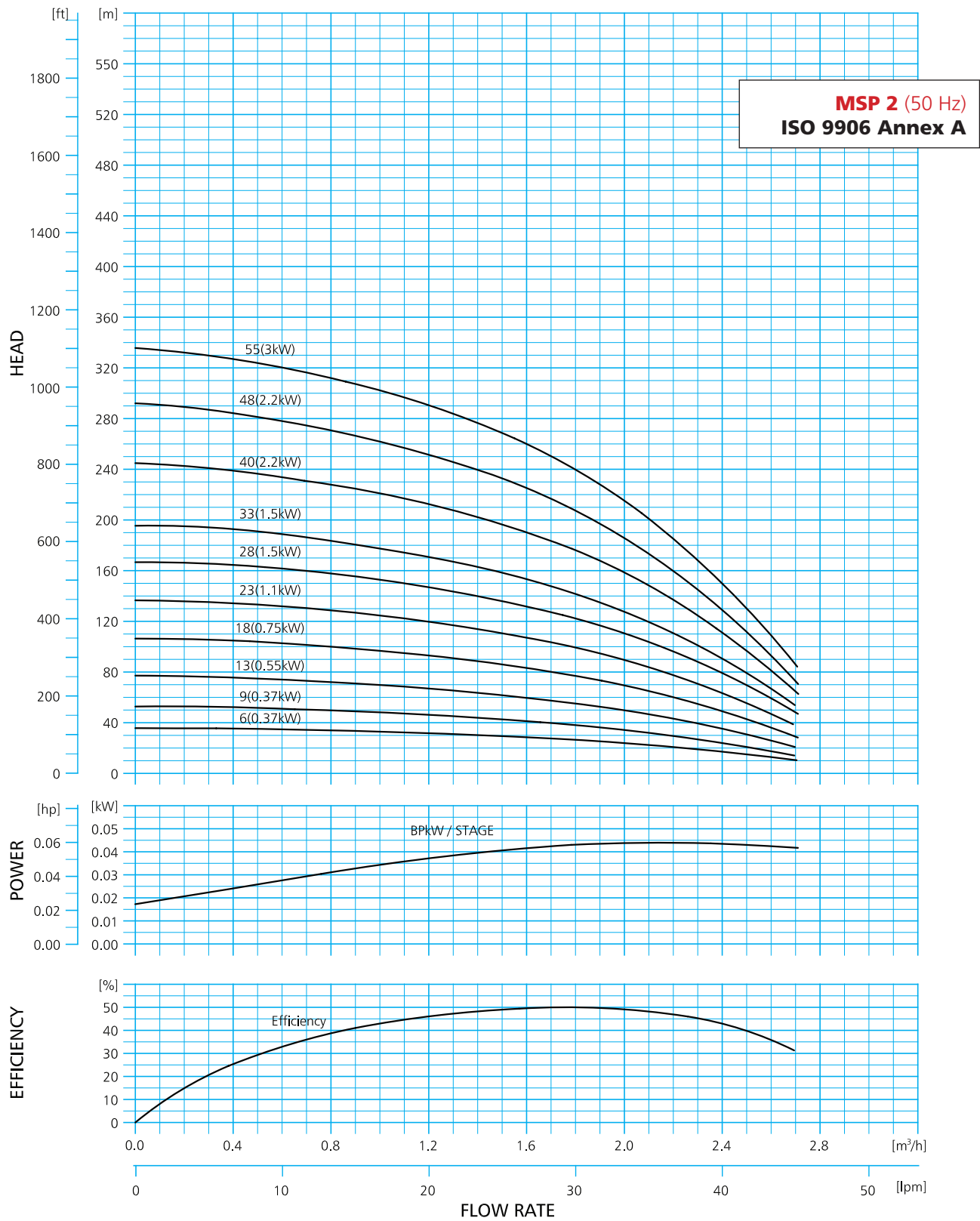
MSP Type Pump
 MSP14

Materials

Pos.	Component	Material
1	Bowl/Diffuser	Stainless steel AISI 304
2	Impeller	Stainless steel AISI 304
3	Neck ring	NBR
4	Shaft	Stainless steel AISI 316
5	Couple	Stainless steel AISI 316
6	Delivery casing	Stainless steel AISI 304
7	Suction case	Stainless steel AISI 304
8	Bearing bush	NBR
9	Strainer	Stainless steel AISI 304



Performance Curve





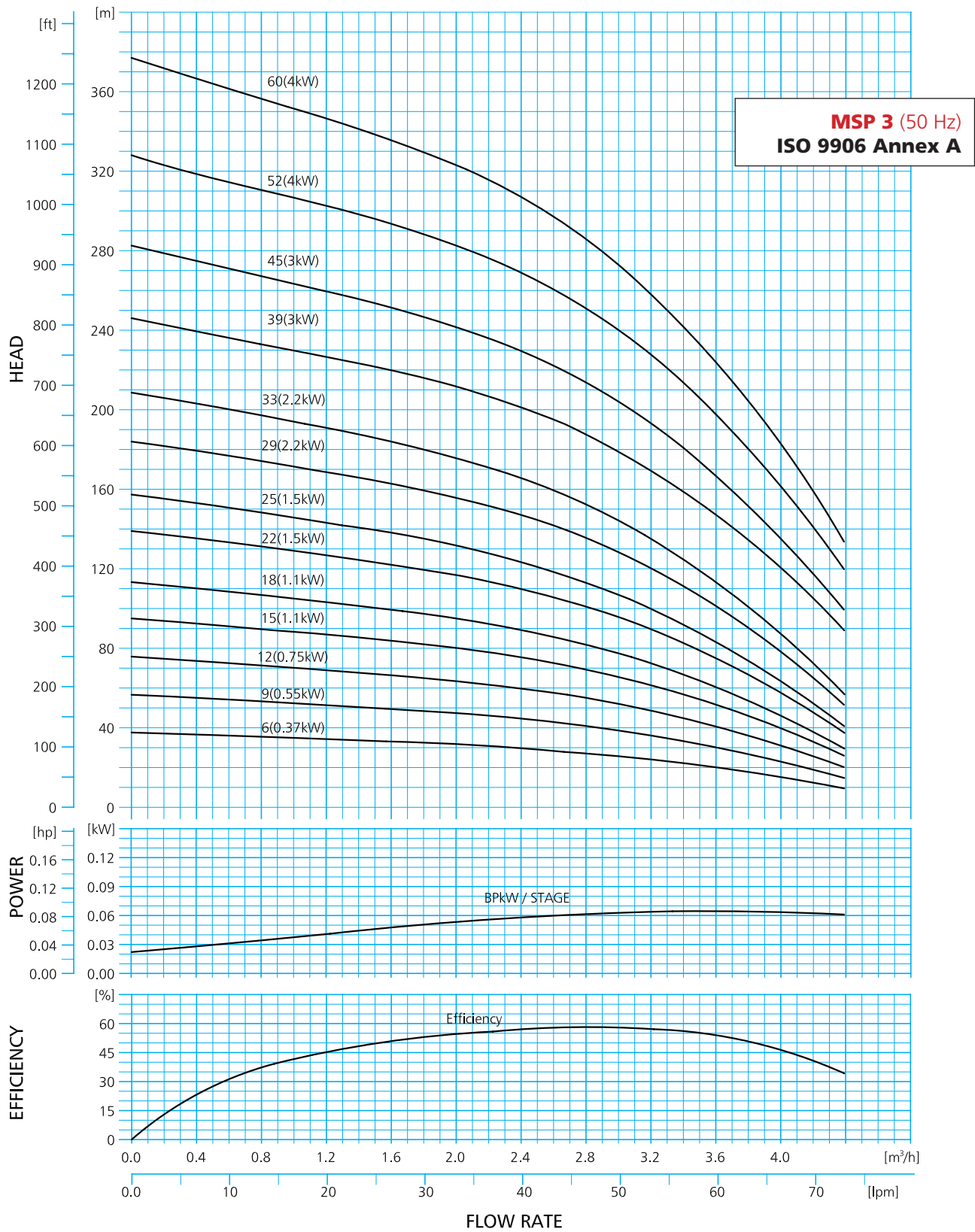
Performance Table

Radial Flow 4" Electric Submersible Pump

MSP-2		Q		n = 2900 rpm						
		m ³ /h		0	1	1.4	1.8	2	2.4	2.8
		l/min.		0	16.7	23.4	30.1	33.4	40.1	46.8
Model	Motor Rating		Total Head In Meters							
	[kW]	[HP]								
MSP2-6	0.37	0.5	36	33	30	26	24	17	13	
MSP2-9	0.37	0.5	53	48	44	38	34	24	17	
MSP2-13	0.55	0.75	77	70	64	55	50	35	26	
MSP2-18	0.75	1.0	107	97	89	77	69	49	36	
MSP2-23	1.1	1.5	137	124	114	99	90	64	47	
MSP2-28	1.5	2.0	167	152	140	122	110	79	59	
MSP2-33	1.5	2.0	196	178	163	142	128	90	66	
MSP2-40	2.2	3.0	245	221	203	176	158	111	81	
MSP2-48	2.2	3.0	292	262	240	207	186	129	93	
MSP2-55	3.0	4.0	336	302	277	240	215	150	109	



Performance Curve





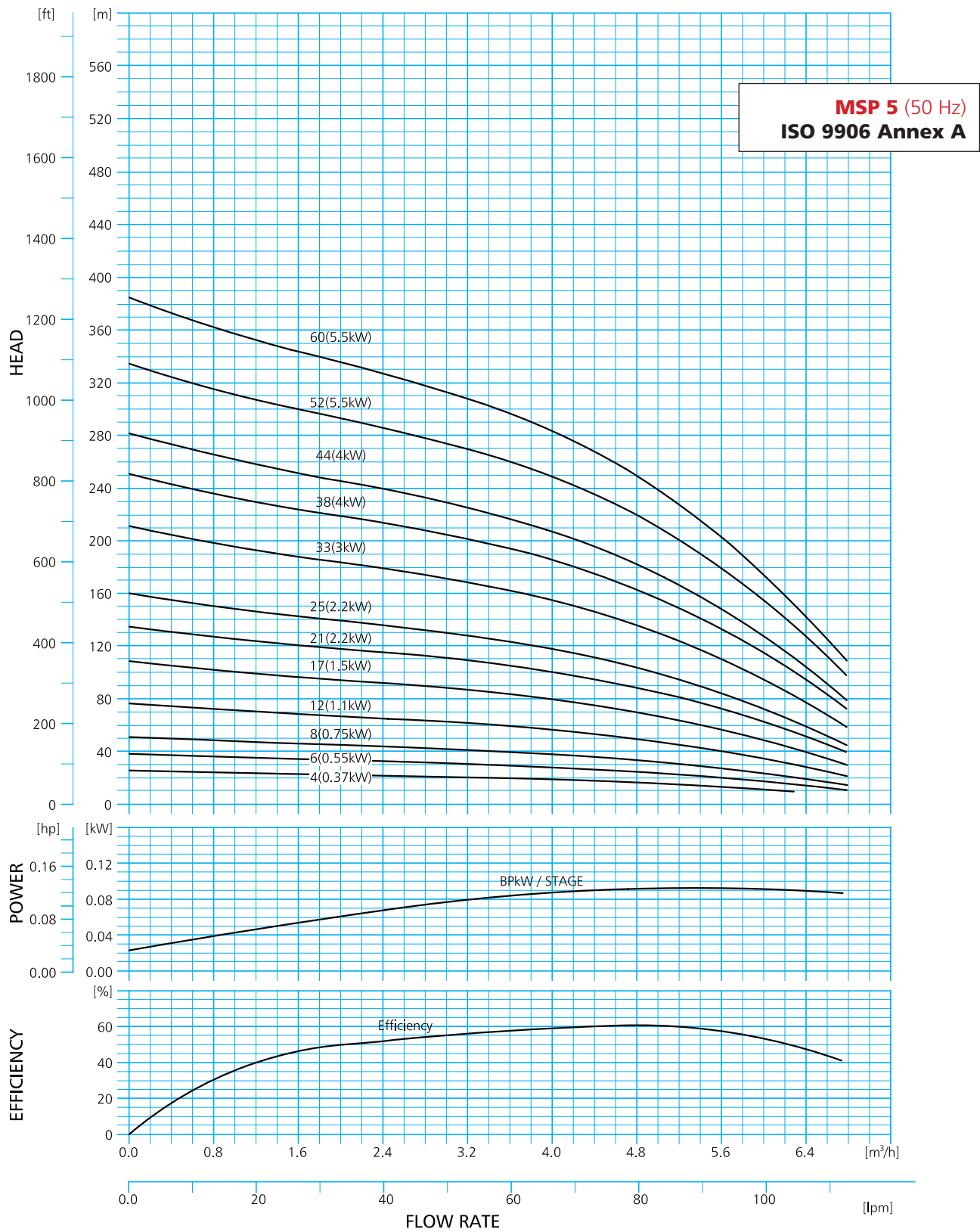
Performance Table

Radial Flow 4" Electric Submersible Pump

MSP-3		Q		n = 2900 rpm									
		m ³ /h		0	1	1.4	1.8	2	2.4	2.8	3.4	4	4.4
		l/min.		0	16.7	23.4	30.1	33.4	40.1	46.8	56.8	66.8	73.5
Model	Motor Rating		Total Head In Meters										
	[kW]	[HP]											
MSP3-6	0.37	0.5	38	35	34	32	31	30	27	22	15	12	
MSP3-9	0.55	0.75	57	54	51	49	47	45	41	33	23	19	
MSP3-12	0.75	1	76	70	68	65	64	60	55	45	31	26	
MSP3-15	1.1	1.5	95	87	85	82	80	76	70	57	40	33	
MSP3-18	1.1	1.5	113	105	101	97	95	89	82	67	46	38	
MSP3-22	1.5	2.0	139	129	125	120	117	110	101	83	57	47	
MSP3-25	1.5	2.0	157	145	140	135	131	124	113	92	63	52	
MSP3-29	2.2	3.0	184	171	166	159	156	147	136	111	78	65	
MSP3-33	2.2	3.0	209	194	187	180	176	166	152	125	87	72	
MSP3-39	3.0	4.0	246	230	223	216	212	201	188	160	120	105	
MSP3-45	3.0	4.0	283	264	255	247	242	229	214	181	135	118	
MSP3-52	4.0	5.5	328	308	298	289	283	269	251	214	161	141	
MSP3-60	4.0	5.5	377	350	341	330	323	307	286	242	182	158	



Performance Curve





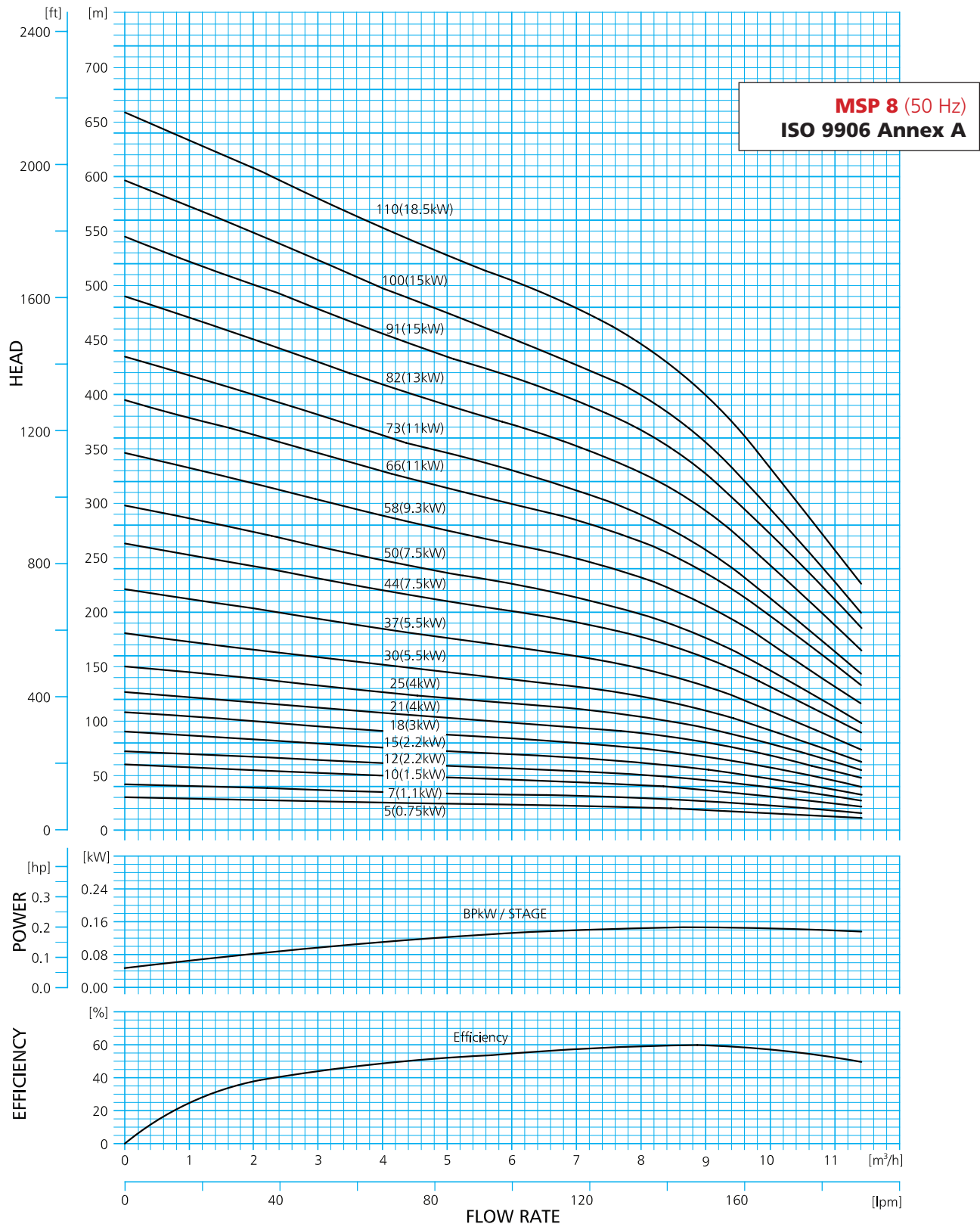
Performance Table

Radial Flow 4" Electric Submersible Pump

MSP-5	Q		n = 2900 rpm												
	m ³ /h		0	1	1.4	1.8	2	2.4	2.8	3.4	4	4.4	5	6	6.7
	l/min.		0	16.7	23.4	30.1	33.4	40.1	46.8	56.8	66.8	73.5	83.5	100.2	111.6
Model	Motor Rating		Total Head In Meters												
	[kW]	[HP]													
MSP5-4	0.37	0.5	26	24	23	23	22	22	21	20	19	18	16	11	9
MSP5-6	0.55	0.75	38	36	35	34	33	33	32	30	28	26	24	17	11
MSP5-8	0.75	1	51	48	47	46	45	44	43	40	38	36	32	23	15
MSP5-12	1.1	1.5	77	72	70	68	67	65	63	60	56	54	47	35	23
MSP5-17	1.5	2	109	100	97	96	94	92	90	85	80	75	67	49	32
MSP5-21	2.2	3	135	126	122	120	118	115	112	106	100	95	85	63	42
MSP5-25	2.2	3	160	150	145	141	139	135	131	125	118	112	99	72	48
MSP5-33	3	4	211	195	190	186	183	179	173	166	155	148	130	95	62
MSP5-38	4	5.5	250	233	229	221	219	215	209	199	186	177	157	115	76
MSP5-44	4	5.5	281	260	257	250	245	240	232	220	207	195	174	127	84
MSP5-52	5.5	7.5	334	310	302	296	293	285	280	267	249	238	210	155	110
MSP5-60	5.5	7.5	384	360	345	339	335	325	319	303	283	269	238	175	130



Performance Curve





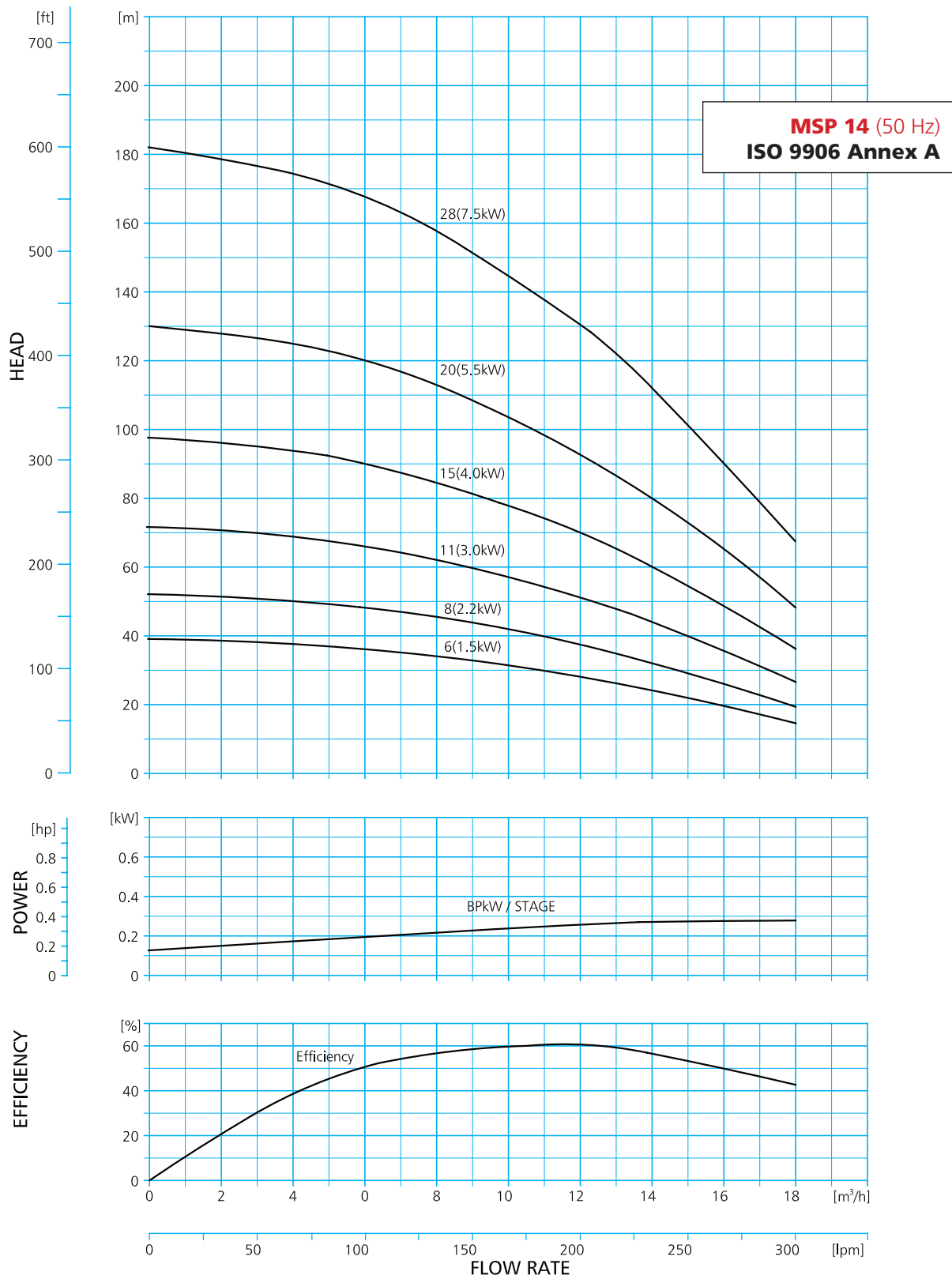
Performance Table

Mixed Flow 4" Electric Submersible Pump

MSP-8		Q		n = 2900 rpm								
		m ³ /h		0	1.4	2	4	6	8	9	10	11
		l/min.		0	23.4	33.4	66.8	100.2	133.3	150	167	183.7
Model	Motor Rating		Total Head In Meters									
	[kW]	[HP]										
MSP8-5	0.75	1.0	30	29	27	25	23	21	19	16	12	
MSP8-7	1.1	1.5	42	40	38	35	32	29	26	22	17	
MSP8-10	1.5	2.0	60	57	55	50	46	41	37	32	24	
MSP8-12	2.2	3.0	72	68	66	61	57	51	46	39	31	
MSP8-15	2.2	3.0	90	85	82	76	70	62	56	47	37	
MSP8-18	3.0	4.0	108	102	99	91	84	75	67	57	45	
MSP8-21	4.0	5.5	127	120	117	107	99	89	80	68	53	
MSP8-25	4.0	5.54	150	142	139	126	116	104	94	79	62	
MSP8-30	5.5	7.5	180	170	165	151	138	123	110	92	71	
MSP8-37	5.5	7.5	221	210	202	184	168	148	132	110	84	



Performance Curve





Performance Table

Mixed Flow 4" Electric Submersible Pump

MSP-14		Q		n = 2900 rpm						
		m ³ /h		0	6	9	11	12	14	18
		l/min.		0	100.2	150	183.7	200.4	233.8	300.6
Model	Motor Rating		Total Head In Meters							
	[kW]	[HP]								
MSP14-6	1.5	2	39	36	32	29	28	24	14	
MSP14-8	2.2	3	52	48	42	39	37	32	19	
MSP14-11	3	4	72	66	58	54	51	44	26	
MSP14-15	4	5.5	98	90	80	74	70	60	36	
MSP14-20	5.5	7.5	130	120	106	98	93	80	48	
MSP14-28	7.5	10	182	168	148	137	131	112	67	