



10" Product data

Stainless steel submersible bore well pumps

Construction

- Submersible motor & pumps for deep wells of 10" (DN 250mm)
- Sized for connection to the motor according to NEMA standards up to 8" motor joining.
- Delivery casing with built-in non-return valve.
- All standard pumps are completely manufactured out of stainless steel AISI 304 sheet metal.
- Impellers:
 - Mixed flow impellers
 - MSP125, MSP160, MSP215
- Connection: Screwed pipe connection with BSP thread as standard.

Applications

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

Performance range

- Flow range: Max. 280m³/h
- Head range: Max 505m

Operating conditions

- Liquid temperature: 0°C to +45°C
- Max. sand content into the water: 50 g/m³
- Max. starts per hour: 20 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.
- Also available with NPT thread pipe connection.

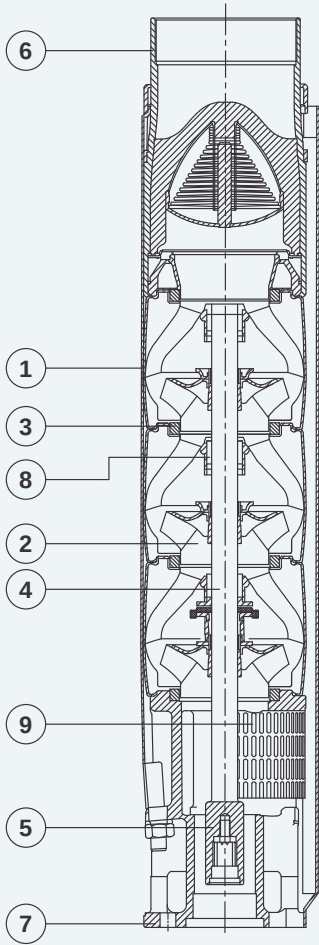




10" Construction

Stainless steel submersible bore well pumps

Sectional Drawing



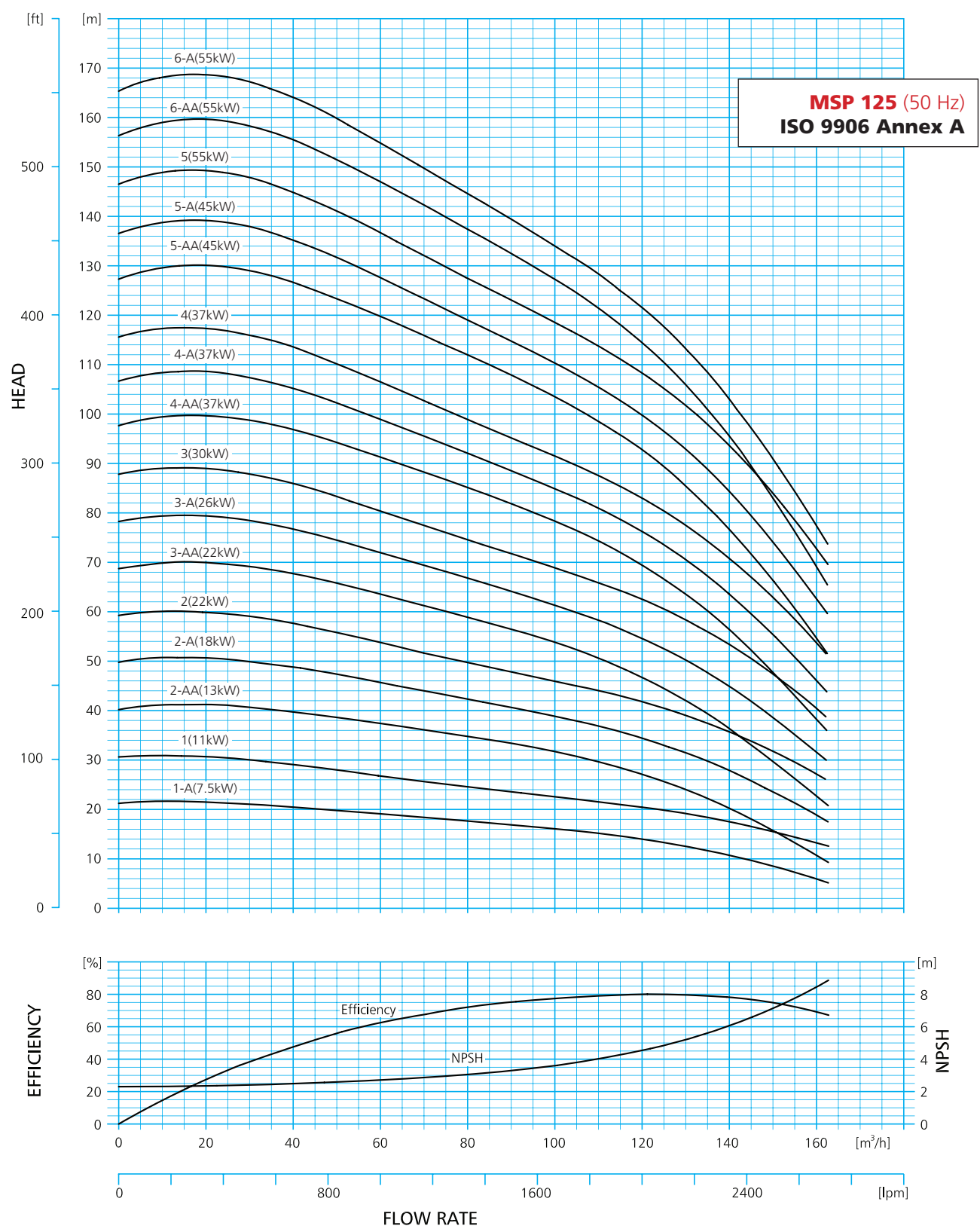
MSP Type Pump
MSP125, MSP160, MSP215

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 431
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



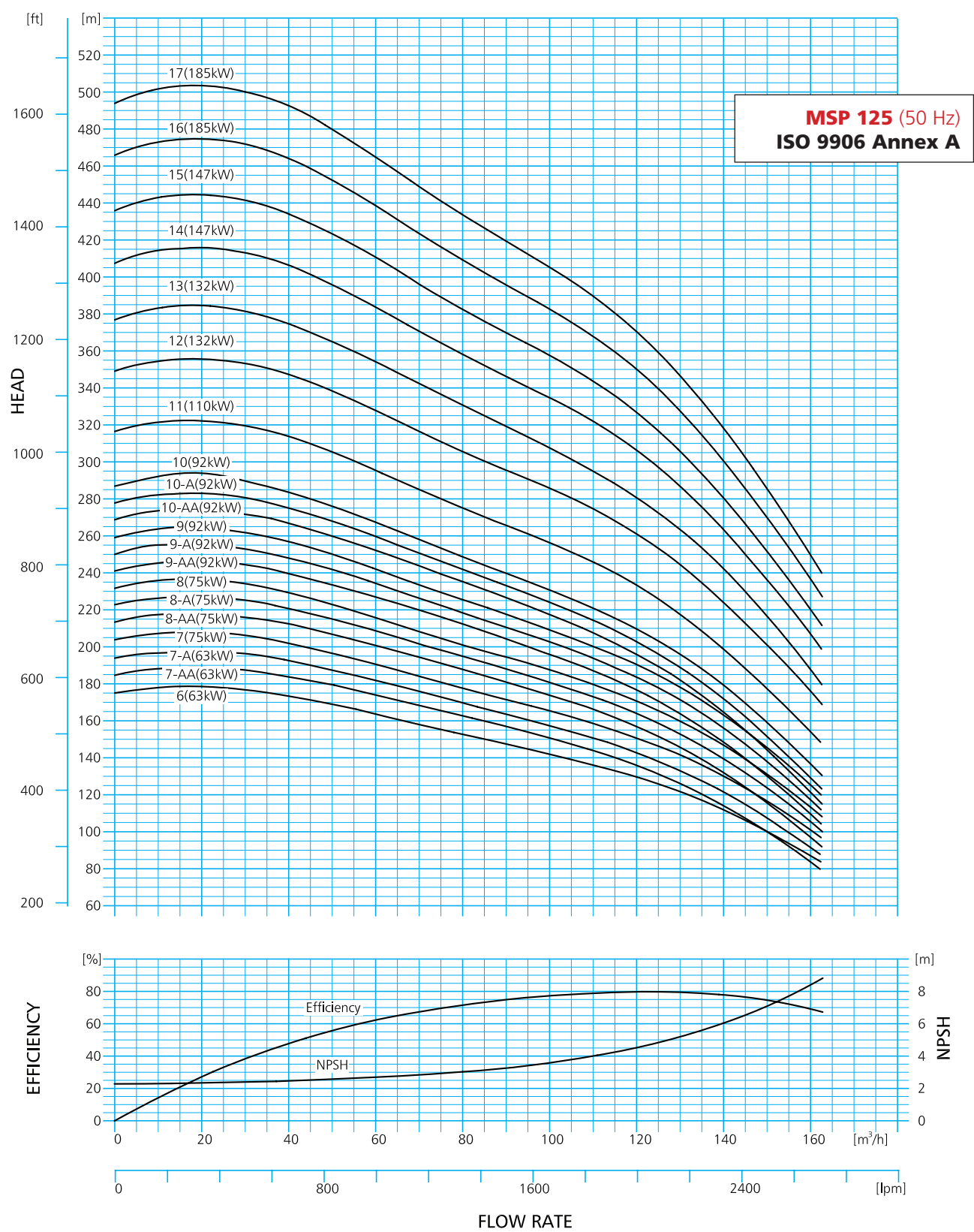


Performance Table

Mixed Flow 10" Electric Submersible Pump															
MSP-125		Q	n = 2900 rpm												
		m³/h	0	60	70	80	90	100	110	120	130	140	150	160	162
		l/min.	0	1000	1167	1333	1500	1667	1833	2000	2167	2333	2500	2667	2700
Model	Motor Rating		Total Head In Meters												
	[kW]	[HP]													
MSP125-1-A	7.5	10	21	19	18	17	17	16	15	14	12	10	8	6	5
MSP125-1	11	15	30	27	25	24	23	22	21	20	19	17	15	13	12
MSP125-2-AA	13	17.5	40	37	36	35	33	31	29	27	24	20	16	11	10
MSP125-2-A	18.5	25	50	45	44	42	40	39	37	34	31	28	23	19	18
MSP-125-2	22	30	59	54	52	50	48	46	44	42	39	35	32	27	26
MSP125-3-AA	22	30	69	63	61	59	56	54	50	47	42	36	30	22	21
MSP125-3-A	26	35	78	72	69	67	64	61	58	54	50	45	38	31	30
MSP125-3	30	40	88	80	77	74	72	69	66	62	58	53	47	40	39
MSP125-4-AA	37	50	98	91	88	85	82	78	74	69	63	56	48	38	36
MSP125-4-A	37	50	107	99	95	92	88	85	81	76	70	63	55	46	44
MSP125-4	37	50	116	106	102	99	95	91	87	83	77	71	63	54	52
MSP125-5-AA	45	60	127	120	116	112	108	103	98	93	85	77	66	54	52
MSP125-5-A	45	60	136	127	123	119	115	110	105	100	93	84	74	63	60
MSP125-5	55	75	146	137	132	127	123	118	114	108	102	93	84	72	70
MSP125-6-AA	55	75	156	147	142	137	132	127	121	114	106	95	83	69	66
MSP125-6-A	55	75	165	155	150	144	139	134	128	121	113	103	91	77	74



Performance Curve



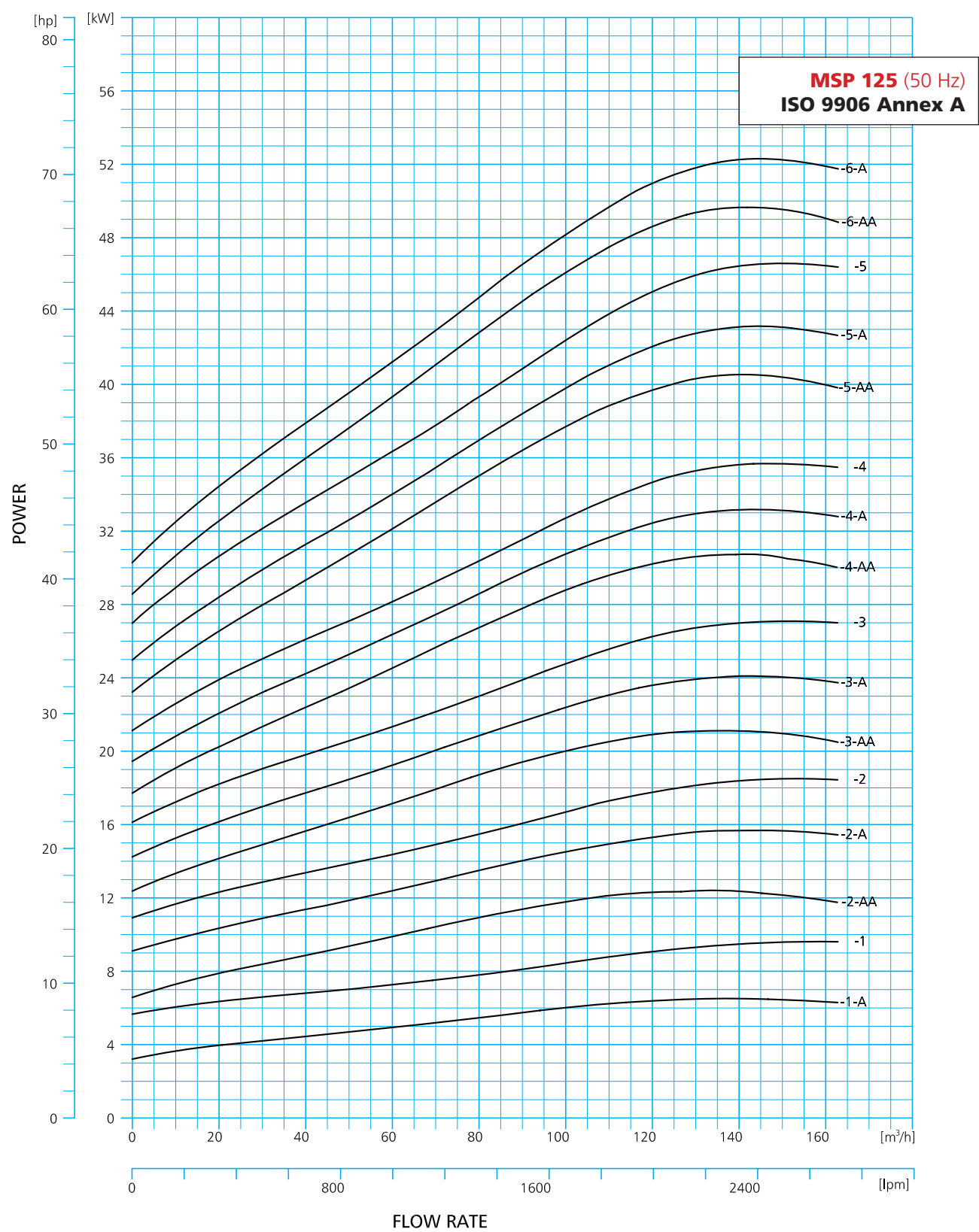


Performance Table

Mixed Flow 10" Electric Submersible Pump															
MSP-125		Q	n = 2900 rpm												
		m³/h	0	60	70	80	90	100	110	120	130	140	150	160	162
		l/ min.	0	1000	1167	1333	1500	1667	1833	2000	2167	2333	2500	2667	2700
Model	Motor Rating		Total Head In Meters												
	[kW]	[HP]													
MSP125-6	63	85	175	164	158	153	147	142	136	130	122	112	100	87	84
MSP125-7-AA	63	85	185	174	168	163	157	151	144	136	126	114	100	83	80
MSP125-7-A	63	85	194	182	176	170	164	158	151	143	133	122	107	92	88
MSP125-7	75	100	204	191	184	178	172	165	159	151	142	130	117	101	97
MSP125-8-AA	75	100	214	201	194	188	181	174	166	157	146	132	116	97	93
MSP125-8-A	75	100	223	209	202	195	188	181	173	164	153	139	123	105	101
MSP125-8	75	100	232	216	209	202	195	188	180	171	160	147	131	113	109
MSP125-9-AA	93	125	241	227	219	212	204	196	187	177	164	149	130	110	105
MSP125-9-A	93	125	250	234	226	219	211	203	194	184	171	156	138	117	113
MSP125-9	93	125	260	242	234	226	218	209	201	191	178	163	146	125	121
MSP125-10-AA	93	125	269	252	244	235	227	218	208	196	182	165	144	121	117
MSP125-10-A	93	125	278	260	251	242	233	224	214	203	189	172	152	129	124
MSP125-10	93	125	287	267	258	249	240	231	221	210	196	179	159	137	132

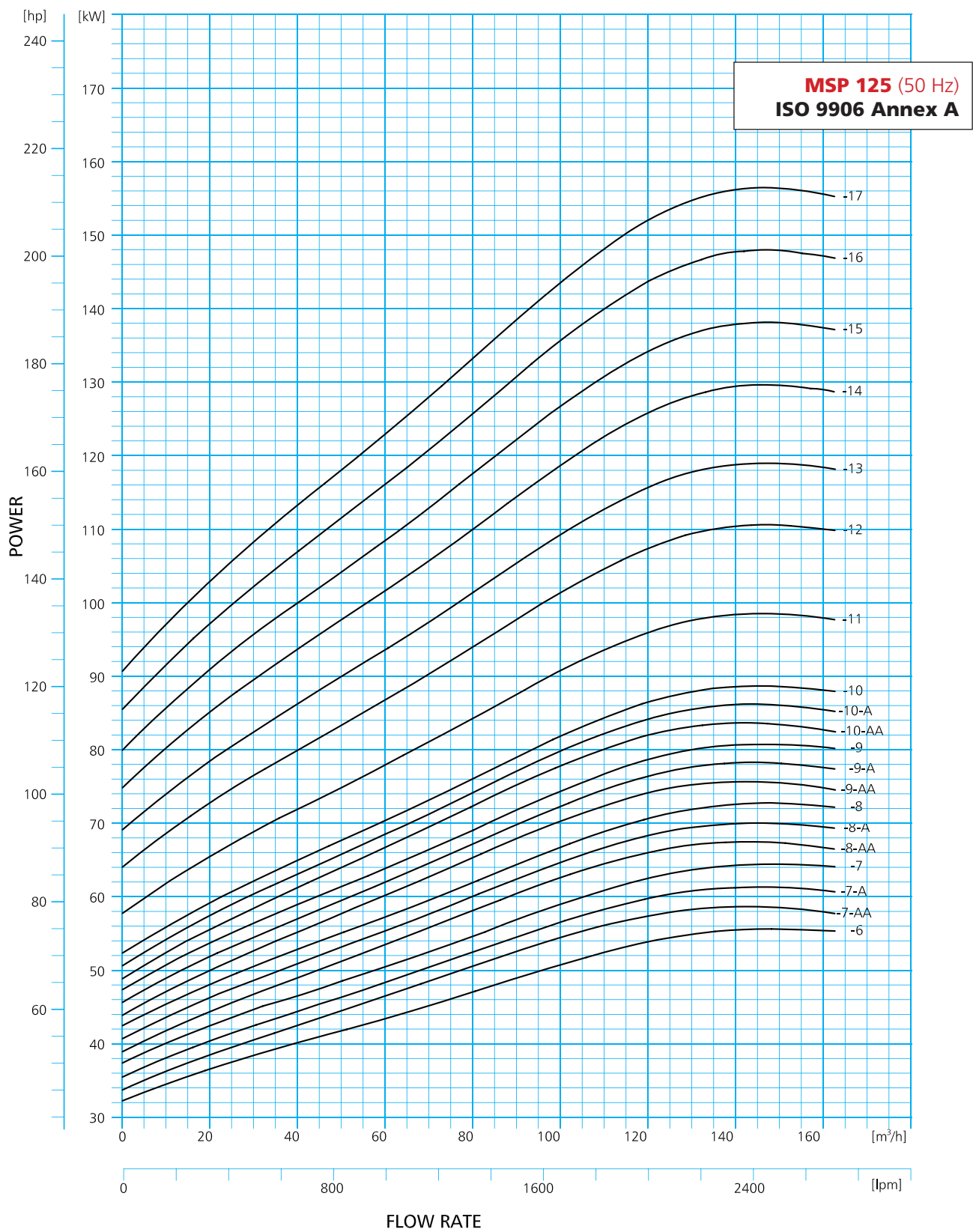


Performance Curve



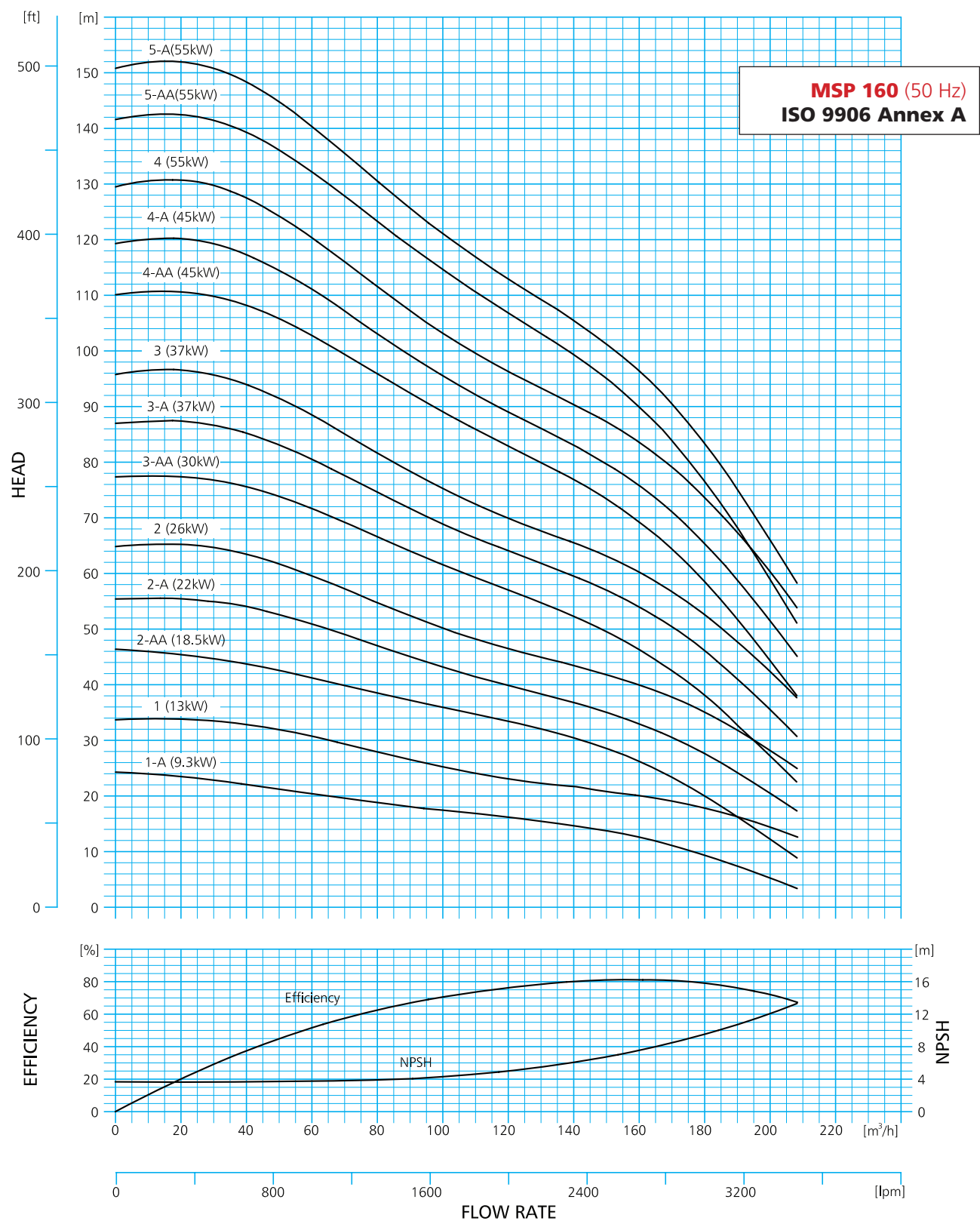


Performance Curve





Performance Curve



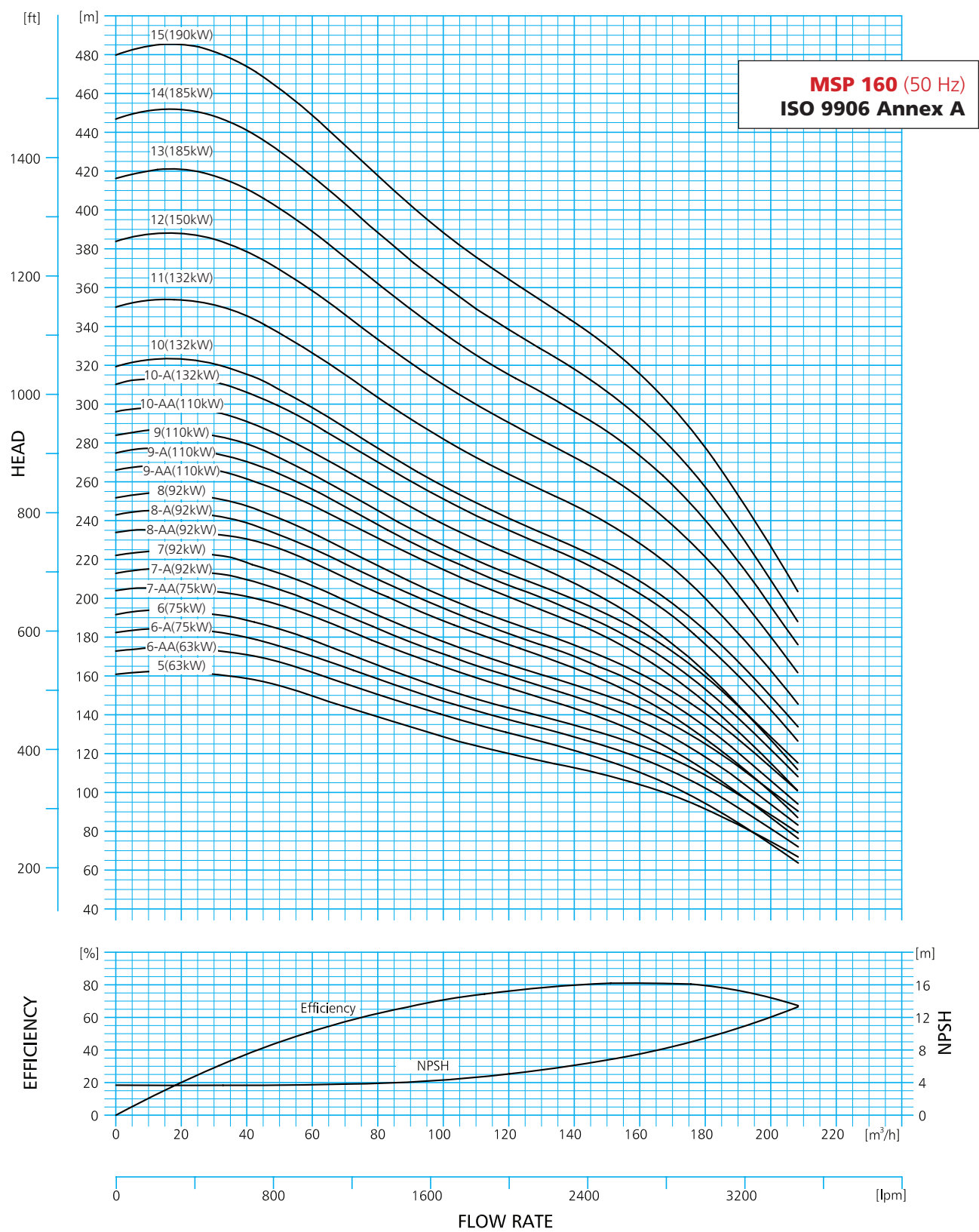


Performance Table

Mixed Flow 10" Electric Submersible Pump																	
MSP-160	Q		n = 2900 rpm														
	m³/h		0	80	90	100	110	120	130	140	150	160	170	180	190	200	208
	l/min.		0	1333	1500	1667	1833	2000	2167	2333	2500	2667	2833	3000	3167	3333	3467
Model	Motor Rating		Total Head In Meters														
	[kW]	[HP]															
MSP160-1-A	9.3	12.5	24	19	18	17	17	16	15	15	14	13	11	9	7	5	3
MSP160-1	13	17.5	34	28	26	25	24	23	22	22	21	20	19	18	16	14	13
MSP160-2-AA	18.5	25	46	38	37	36	35	33	32	30	29	26	23	20	16	12	9
MSP160-2-A	22	30	55	47	45	43	41	40	38	37	35	33	31	28	24	20	17
MSP160-2	26	35	65	55	52	50	48	46	45	43	42	40	38	35	32	28	25
MSP160-3-AA	30	40	77	67	64	62	59	57	55	52	49	46	42	38	33	27	23
MSP160-3-A	37	50	87	75	72	69	66	64	62	59	57	54	50	46	41	35	31
MSP160-3	37	50	96	82	78	75	72	70	68	65	63	60	57	53	48	42	38
MSP160-4-AA	45	60	110	96	92	89	86	83	80	77	73	69	64	58	52	44	38
MSP160-4-A	45	60	119	103	99	95	92	89	86	83	80	76	71	65	59	51	45
MSP160-4	55	75	129	111	107	103	100	96	93	90	87	83	79	74	67	60	54
MSP160-5-AA	55	75	142	123	119	114	111	107	103	99	95	90	84	76	68	59	51
MSP160-5-A	55	75	151	130	126	121	117	113	109	105	101	96	90	83	75	66	58



Performance Curve



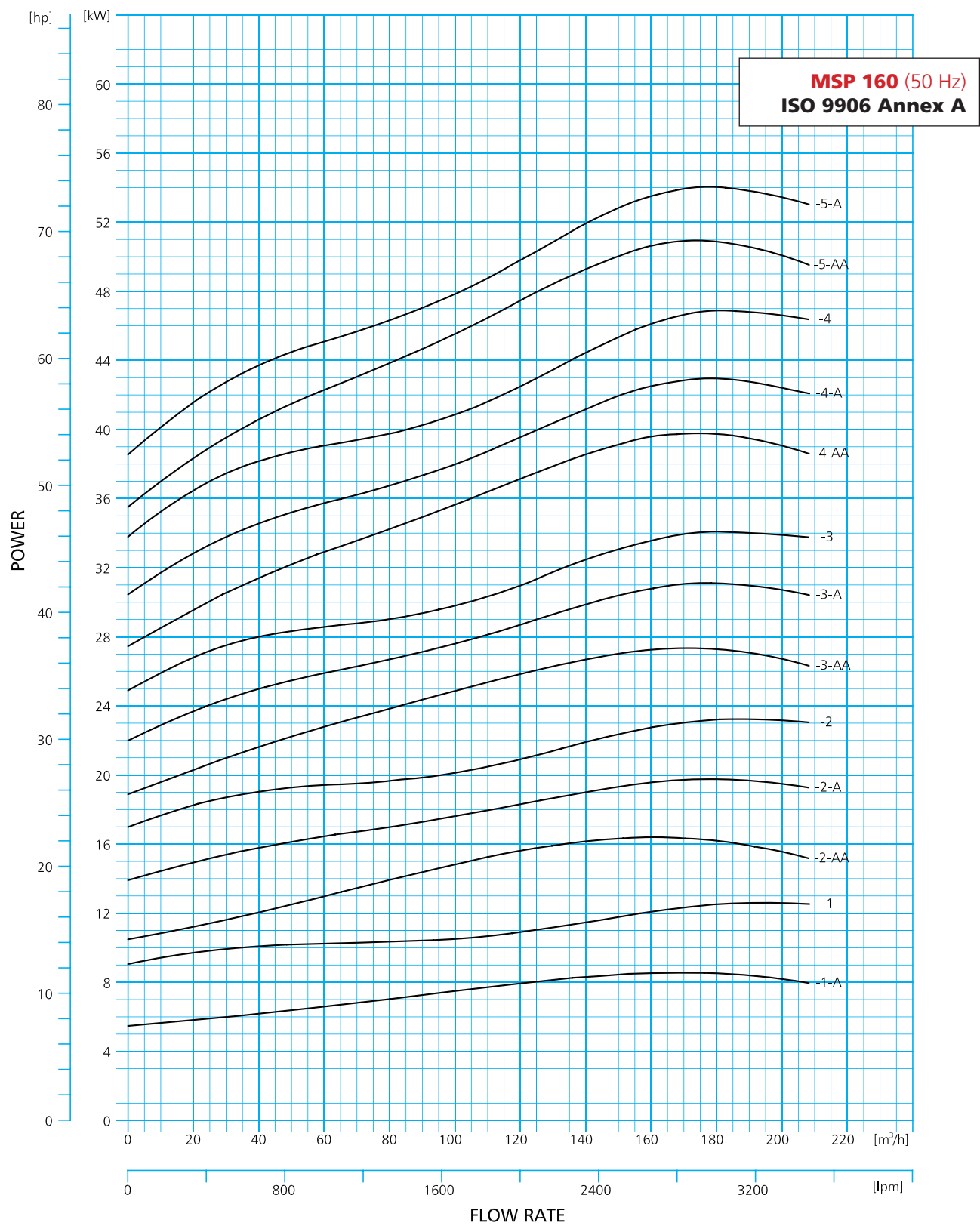


Performance Table

Mixed Flow 10" Electric Submersible Pump																	
MSP-160		Q	n = 2900 rpm														
		m³/h	0	80	90	100	110	120	130	140	150	160	170	180	190	200	208
		l/ min.	0	1333	1500	1667	1833	2000	2167	2333	2500	2667	2833	3000	3167	3333	3467
Model	Motor Rating		Total Head In Meters														
	[kW]	[HP]															
MSP160-5	63	85	161	139	133	129	124	120	116	113	109	104	98	91	83	74	67
MSP160-6-AA	63	85	173	150	145	140	135	131	126	121	116	110	103	94	84	73	64
MSP160-6-A	75	100	183	158	153	147	142	137	133	128	123	118	111	102	92	81	72
MSP160-6	75	100	192	166	159	154	148	144	139	135	130	124	117	109	99	88	79
MSP160-7-AA	75	100	204	177	171	165	159	154	149	143	137	130	122	112	100	87	76
MSP160-7-A	92	125	213	184	177	171	165	160	155	149	144	137	128	118	107	94	84
MSP160-7	92	125	222	191	184	177	171	166	161	155	150	143	135	125	113	101	91
MSP160-8-AA	92	125	234	203	195	188	182	176	170	164	157	149	139	127	114	99	87
MSP160-8-A	92	125	243	210	202	195	188	182	176	170	163	155	145	134	121	106	94
MSP160-8	92	125	252	217	208	201	194	188	182	176	169	161	152	140	127	113	101
MSP160-9-AA	110	150	266	231	223	215	207	201	194	187	179	170	159	146	131	115	102
MSP160-9-A	110	150	275	238	229	221	214	207	200	193	186	177	166	153	138	122	109
MSP160-9	110	150	284	245	236	227	220	213	206	199	192	183	172	160	145	129	116



Performance Curve





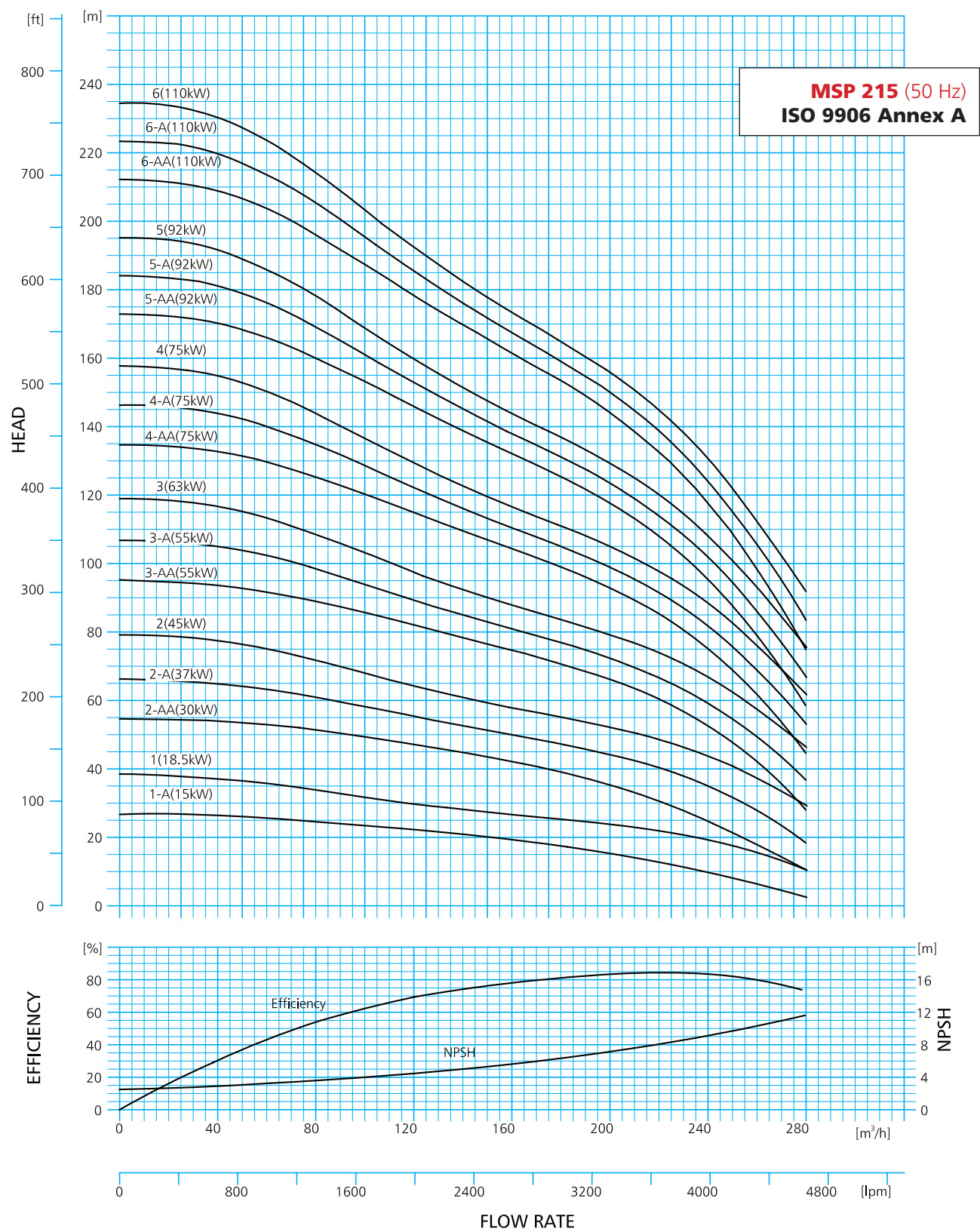
MSP 160 (50 Hz)
ISO 9906 Annex A

The graph displays the power consumption of the MSP 160 pump at 50 Hz for different pressure drops. The y-axis represents Power in kW (left) and hp (right). The x-axis represents Flow Rate in lpm (bottom) and m³/h (top). The curves are labeled with pressure drop values from -5 to -15. The power consumption increases with both flow rate and pressure drop, reaching a peak around 180-200 lpm.

Pressure Drop	Flow Rate (lpm)	Power (kW)	Power (hp)
-5	0	44	60
-5	100	52	70
-5	200	58	79
-6	0	48	65
-6	100	56	76
-6	200	62	84
-7	0	52	70
-7	100	60	81
-7	200	66	90
-8	0	56	76
-8	100	64	87
-8	200	70	95
-9	0	60	81
-9	100	68	92
-9	200	74	101
-10	0	64	87
-10	100	72	98
-10	200	78	106
-11	0	68	92
-11	100	76	104
-11	200	82	111
-12	0	72	98
-12	100	80	109
-12	200	86	117
-13	0	76	104
-13	100	84	114
-13	200	90	123
-14	0	80	109
-14	100	88	120
-14	200	94	128
-15	0	84	114
-15	100	92	125
-15	200	98	133



Performance Curve



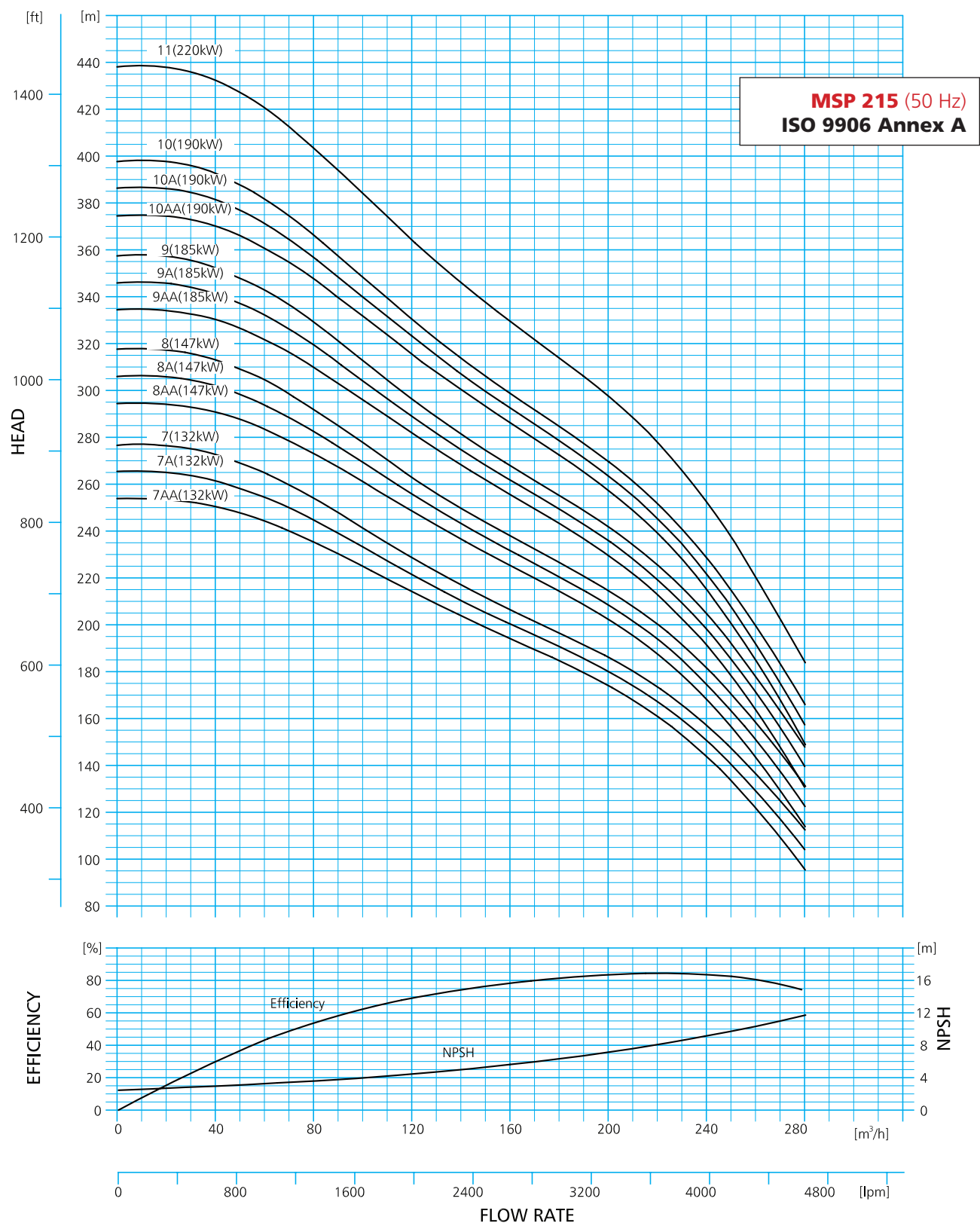


Performance Table

Mixed Flow 10” Electric Submersible Pump																			
MSP-215		Q	n = 2900 rpm																
		m³/h	0	90	110	130	150	170	180	190	200	210	220	230	240	250	260	270	280
		l/min.	0	1500	1833	2167	2500	2834	3000	3168	3334	3500	3667	3834	4000	4167	4334	4500	4666
Model	Motor Rating		Total Head In Meters																
	[kW]	[HP]																	
MSP215-1-A	15	20	27	24	23	22	20	18	17	16	15	14	13	11	10	8	6	4	3
MSP215-1	18.5	25	38	33	31	29	27	26	25	24	24	23	22	21	19	18	16	13	11
MSP215-2-AA	30	40	55	50	48	46	43	41	39	37	35	33	31	28	25	21	18	14	11
MSP215-2-A	37	50	66	59	57	54	51	49	47	46	44	42	40	38	35	32	28	23	18
MSP215-2	45	60	79	70	66	62	59	56	55	54	52	50	49	46	44	41	37	34	19
MSP215-3-AA	55	75	95	87	84	80	76	73	71	69	66	63	60	57	53	48	42	36	28
MSP215-3-A	55	75	107	96	92	87	83	79	77	75	72	70	67	63	59	55	49	43	37
MSP215-3	63	85	119	106	100	95	90	86	84	81	79	77	74	71	67	62	58	52	46
MSP215-4-AA	75	100	135	123	117	112	107	102	99	96	93	89	85	80	75	69	62	54	45
MSP215-4-A	75	100	146	132	125	119	113	108	105	102	99	95	91	87	82	76	69	61	53
MSP215-4	75	100	158	140	133	126	119	114	111	108	105	102	98	93	88	82	76	69	62
MSP215-5-AA	92	125	173	157	149	142	135	129	125	122	118	113	108	102	95	88	79	69	59
MSP215-5-A	92	125	184	165	157	149	141	135	131	127	123	119	114	108	102	94	86	77	67
MSP215-5	92	125	195	173	164	155	148	140	137	133	129	125	120	114	108	101	93	84	76
MSP215-6-AA	110	150	212	192	183	174	166	157	153	149	144	139	133	126	118	109	98	87	75
MSP215-6-A	110	150	223	200	190	181	172	163	159	155	150	145	139	132	124	115	105	95	83
MSP215-6	110	150	234	209	198	187	178	169	165	160	156	151	145	138	130	122	112	102	92



Performance Curve



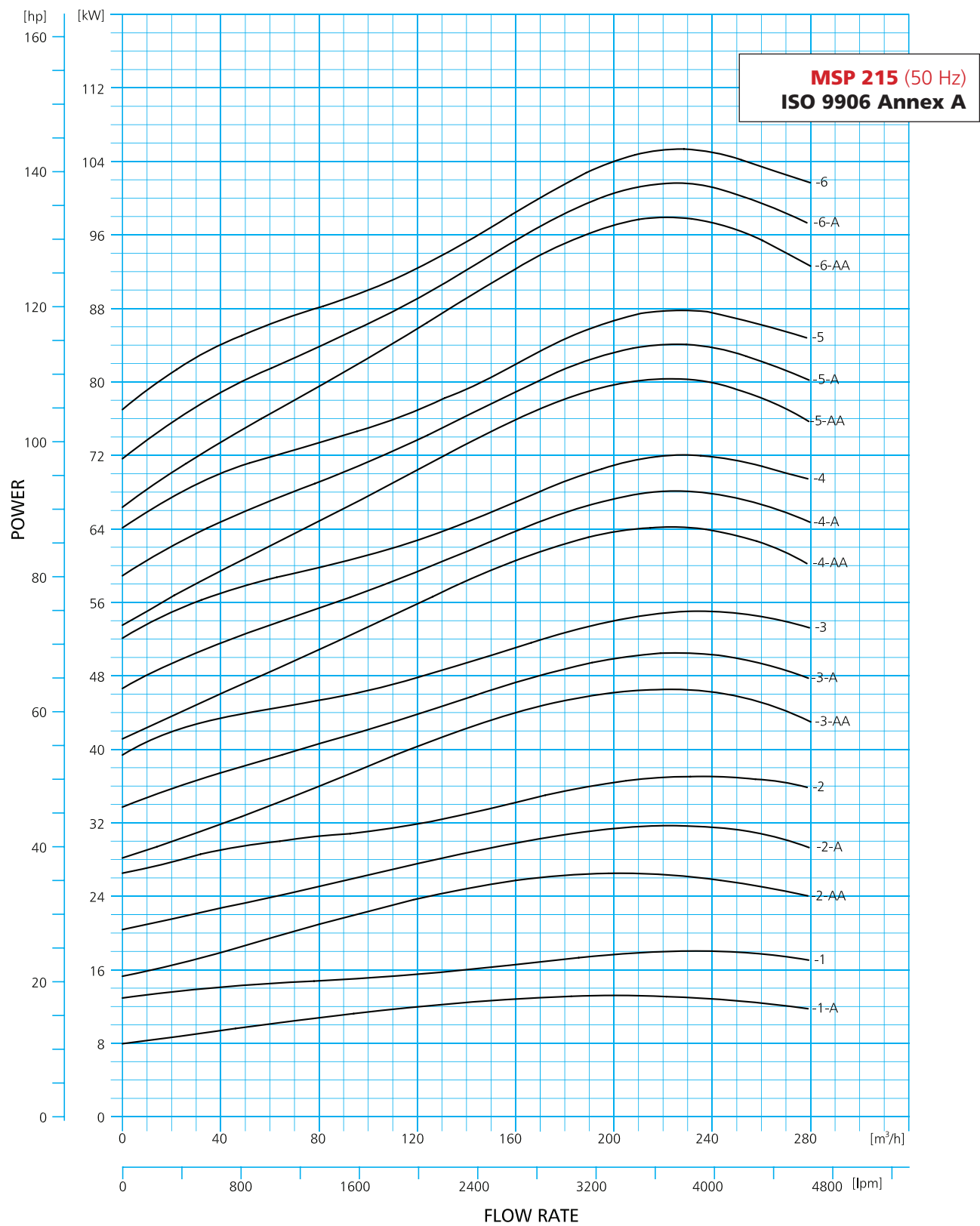


Performance Table

Mixed Flow 10" Electric Submersible Pump																		
MSP-215		Q		n = 2900 rpm														
		m³/h		0	90	110	130	150	170	180	190	200	210	220	230	240	250	260
		l/min.		0	1500	1833	2167	2500	2834	3000	3168	3334	3500	3667	3834	4000	4167	4334
Model	Motor Rating		Total Head In Meters															
	[kW]	[HP]																
MSP215-7-AA	132	177	254	230	220	209	199	190	185	180	174	168	161	153	144	134	122	109
MSP215-7-A	132	177	265	239	227	216	205	196	191	186	180	174	167	159	151	141	129	117
MSP215-7	132	177	277	248	235	223	212	202	197	192	186	180	174	166	157	147	137	125
MSP215-8-AA	147	204	295	267	255	242	231	220	214	209	202	195	188	179	168	157	144	129
MSP215-8-A	147	204	306	276	263	249	237	226	221	215	209	202	194	185	175	164	151	137
MSP215-8	147	204	318	285	270	256	244	232	227	221	215	208	200	192	182	171	158	145
MSP215-9-AA	185	252	334	303	289	275	262	249	243	237	230	222	213	203	191	178	164	148
MSP215-9-A	185	252	346	312	297	282	268	256	249	243	236	228	219	209	198	185	171	156
MSP215-9	185	252	358	321	305	289	275	262	255	249	242	234	226	216	205	192	179	164
MSP215-10-AA	190	260	375	340	324	308	293	279	272	265	257	249	239	228	215	201	185	168
MSP215-10-A	190	260	386	349	331	315	300	286	279	271	264	255	245	234	222	208	192	175
MSP215-10	190	260	398	357	339	322	306	292	285	277	270	261	252	241	229	215	200	183



Performance Curve





Performance Curve

