

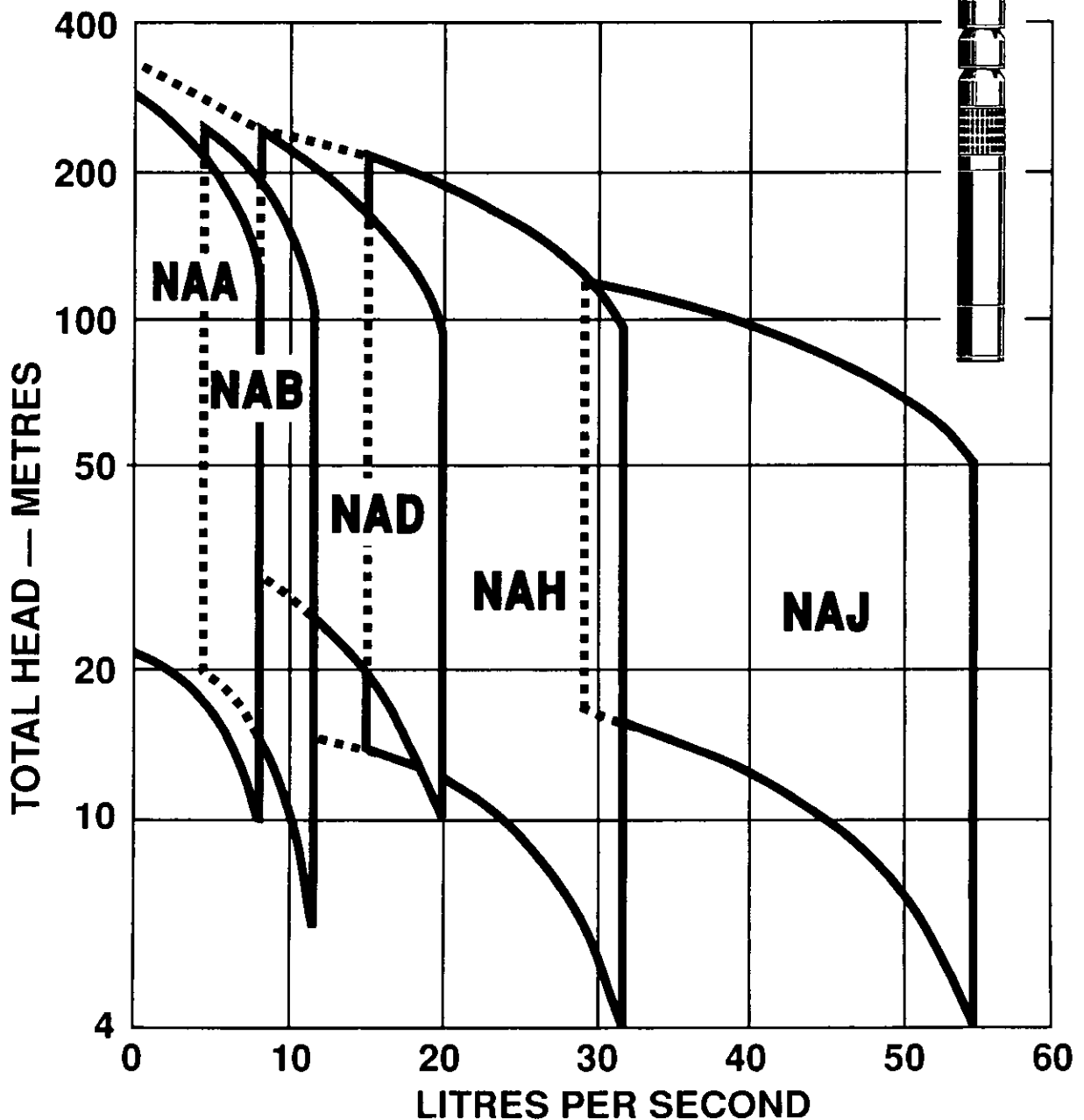


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**SUBMERSIBLE BOREHOLE PUMP
PERFORMANCE DATA**

NA
SERIES



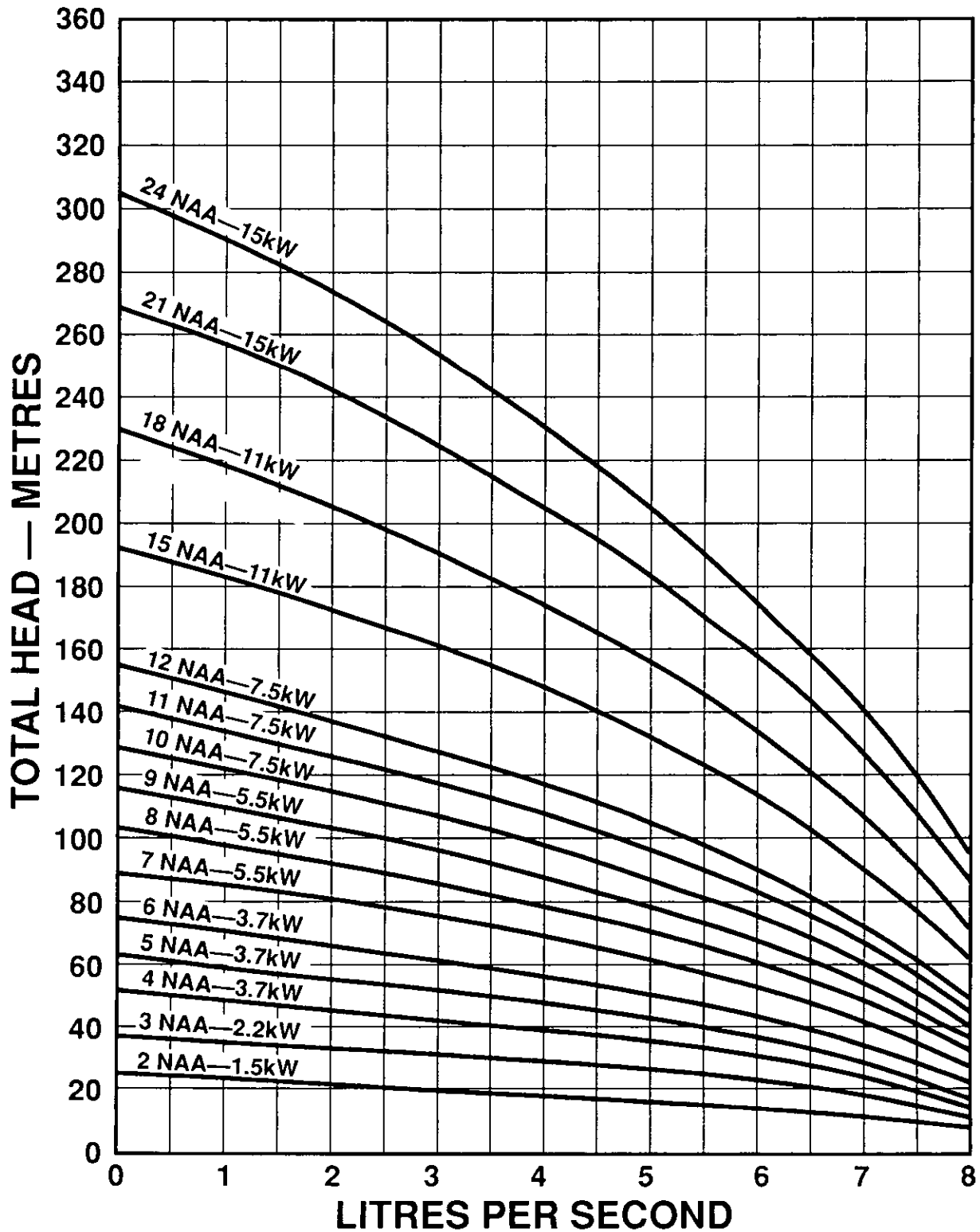


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**SUBMERSIBLE BOREHOLE PUMP
PERFORMANCE DATA**

MODEL NAA



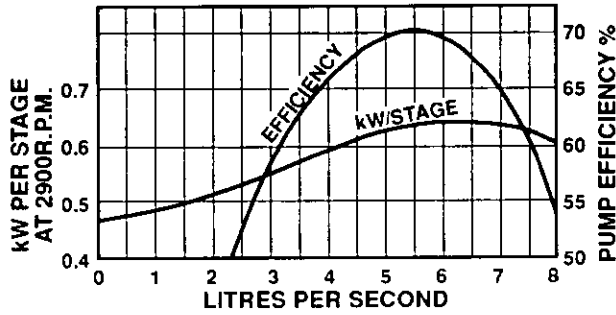


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MODEL NAA

**SUBMERSIBLE BOREHOLE PUMP
TECHNICAL DATA**

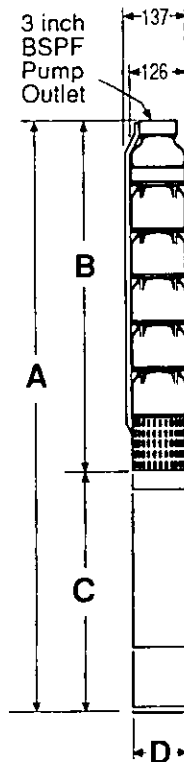
PUMP EFFICIENCY AND KW / STAGE



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AS3901 L.C. 103
Standards Australia

NAA DIMENSIONS & WEIGHTS

STAGES	MOTOR kW	NAA WITH FRANKLIN MOTORS DIMENSIONS IN mm				UNIT MASS kg	STAGES	MOTOR kW	NAA WITH HITACHI MOTORS DIMENSIONS IN mm				UNIT MASS kg
		A	B	C	D				A	B	C	D	
4 INCH MOTORS													
2	1.5	853	508	345	95	34	-	-	-	-	-	-	
3	2.2	1143	619	524	95	48	-	-	-	-	-	-	
4	3.7	1321	721	600	95	54	-	-	-	-	-	-	
5	3.7	1441	841	600	95	59	-	-	-	-	-	-	
6	3.7	1552	952	600	95	65	-	-	-	-	-	-	
6 INCH MOTORS													
7	5.5	1742	1063	679	138	91	7	5.5	1693	1063	630	140	103
8	5.5	1854	1175	679	138	97	8	5.5	1805	1175	630	140	109
9	5.5	1964	1285	679	138	102	9	5.5	1915	1285	630	140	114
10	7.5	2107	1397	710	138	108	10	7.5	2082	1397	685	140	129
11	7.5	2218	1508	710	138	113	11	7.5	2193	1508	685	140	134
12	7.5	2329	1619	710	138	118	12	7.5	2304	1619	685	140	139
15	11	2728	1953	775	138	146	15	11	2713	1953	760	140	165
18	11	3061	2286	775	138	161	18	11	3046	2286	760	140	180
21	15	3459	2619	840	138	178	21	15	3469	2619	850	140	201
24	15	3792	2952	840	138	194	24	15	3802	2952	850	140	217



ELECTRICAL DATA 4 & 6 INCH MOTORS 415V 50 Hz 3 PHASE

kW	FRANKLIN				HITACHI			
	THRUST kg	FLA	RPM	LRA	THRUST kg	FLA	RPM	LRA
4 INCH MOTORS								
1.5	300	3.8	2870	22.6	-	-	-	-
2.2	680	5.6	2855	29.5	-	-	-	-
3.7	680	9.0	2835	50.4	-	-	-	-
6 INCH MOTORS								
5.5	680	12.7	2882	66	1600	11.8	2835	52
7.5	1600	16.3	2880	90.6	1600	15.3	2865	90
11	1600	24.0	2875	137	1600	22.0	2856	123
15	1600	31.0	2867	179	1600	29.4	2847	153

MATERIALS OF CONSTRUCTION

Pump Inlet and Outlet	Phosphor Bronze (ZF)
Inlet Strainer	Stainless Steel (Type 321)
Shaft	Stainless Steel (Type 302)
Impeller, Stage Casing	Phosphor Bronze (ZF)
Impeller Sleeve	Stainless Steel (Type 431)
Shaft Bearing	Water Lubricated, Spiral Cut Rubber.
Non-return Valve	Phosphor Bronze (ZF)
Cable Protector	Stainless Steel (Type 302)

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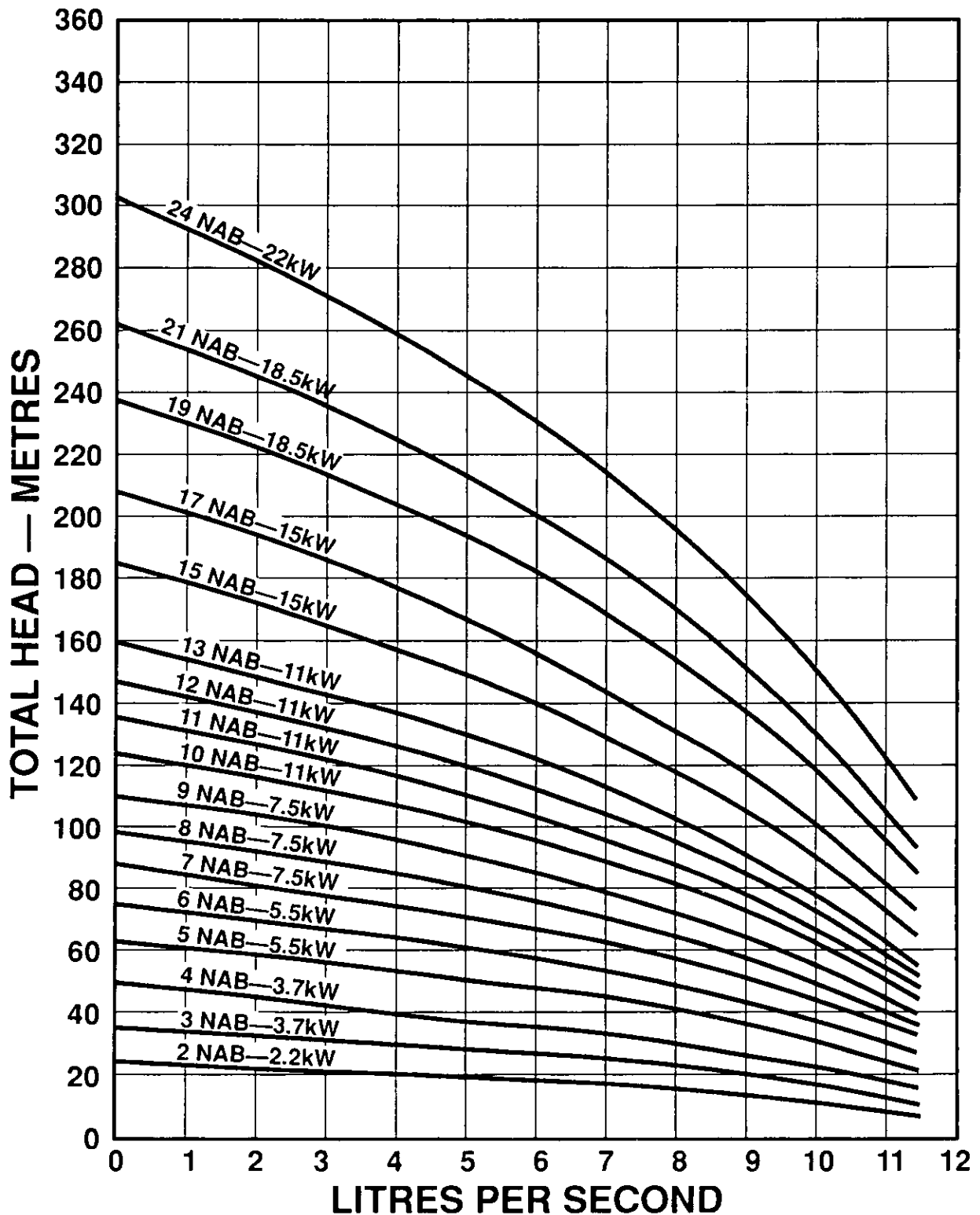


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**SUBMERSIBLE BOREHOLE PUMP
PERFORMANCE DATA**

**MODEL
NAB**



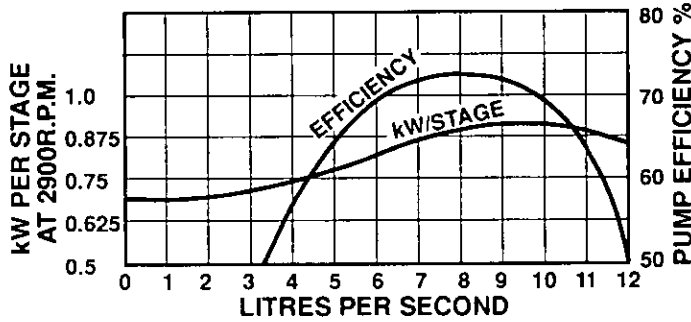


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MODEL NAB

**SUBMERSIBLE BOREHOLE PUMP
TECHNICAL DATA**

PUMP EFFICIENCY AND KW / STAGE

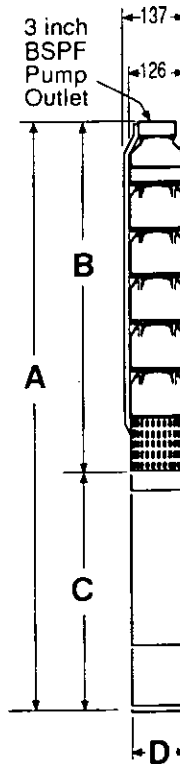


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Quality Endorsed Company
AS3901 Lic. 103
Sydney Australia

NAB DIMENSIONS & WEIGHTS

STAGES	MOTOR kW	NAB WITH FRANKLIN MOTORS DIMENSIONS IN mm				UNIT MASS kg	STAGES	MOTOR kW	NAB WITH HITACHI MOTORS DIMENSIONS IN mm				UNIT MASS kg
		A	B	C	D				A	B	C	D	
4 INCH MOTORS													
2	2.2	1032	508	524	95	39	-	-	-	-	-	-	
3	3.7	1219	619	600	95	48	-	-	-	-	-	-	
4	3.7	1330	730	600	95	54	-	-	-	-	-	-	
6 INCH MOTORS													
5	5.5	1520	841	679	138	80	5	5.5	1471	841	630	140	92.3
6	5.5	1631	952	679	138	86	6	5.5	1582	952	630	140	97.8
7	7.5	1773	1063	710	138	96	7	7.5	1748	1063	685	140	112
8	7.5	1885	1175	710	138	101	8	7.5	1860	1175	685	140	117
9	7.5	1996	1286	710	138	106	9	7.5	1971	1286	685	140	123
10	11	2172	1397	775	138	118	10	11	2157	1397	760	140	137
11	11	2283	1508	775	138	123	11	11	2268	1508	760	140	142
12	11	2394	1619	775	138	128	12	11	2379	1619	760	140	147
13	11	2505	1730	775	138	134	13	11	2490	1730	760	140	153
15	15	2792	1952	840	138	152	15	15	2802	1952	850	140	168
17	15	3015	2175	840	138	163	17	15	3025	2175	850	140	179
19	18.5	3302	2397	905	138	180	19	18.5	3317	2397	920	140	193
21	18.5	3524	2619	905	138	190	21	18.5	3539	2619	920	140	204
24	22	3923	2952	971	138	213	24	22	3922	2952	970	140	230



ELECTRICAL DATA 4 & 6 INCH MOTORS 415V 50 Hz 3 PHASE

kW	THRUST kg	FLA	RPM	LRA	THRUST kg	FLA	RPM	LRA
4 INCH FRANKLIN MOTORS								
2.2	680	5.6	2855	29.5	-	-	-	-
3.7	680	9.0	2835	50.4	-	-	-	-
6 INCH FRANKLIN MOTORS								
5.5	680	12.7	2882	66	1600	11.8	2835	52
7.5	1600	16.3	2880	90.6	1600	15.3	2865	90
11	1600	24.0	2875	137	1600	22.0	2856	123
15	1600	31.0	2867	179	1600	29.4	2847	153
18.5	1600	38.7	2868	240	1600	36.1	2841	186
22	1600	46.0	2877	278	1600	43.7	2850	233
6 INCH HITACHI MOTORS								

MATERIALS OF CONSTRUCTION

Pump Inlet and Outlet	Phosphor Bronze (ZF)
Inlet Strainer	Stainless Steel (Type 321)
Shaft	Stainless Steel (Type 302)
Impeller, Stage Casing	Phosphor Bronze (ZF)
Impeller Sleeve	Stainless Steel (Type 431)
Shaft Bearing	Water Lubricated, Spiral Cut Rubber.
Non-return Valve	Phosphor Bronze (ZF)
Cable Protector	Stainless Steel (Type 302)

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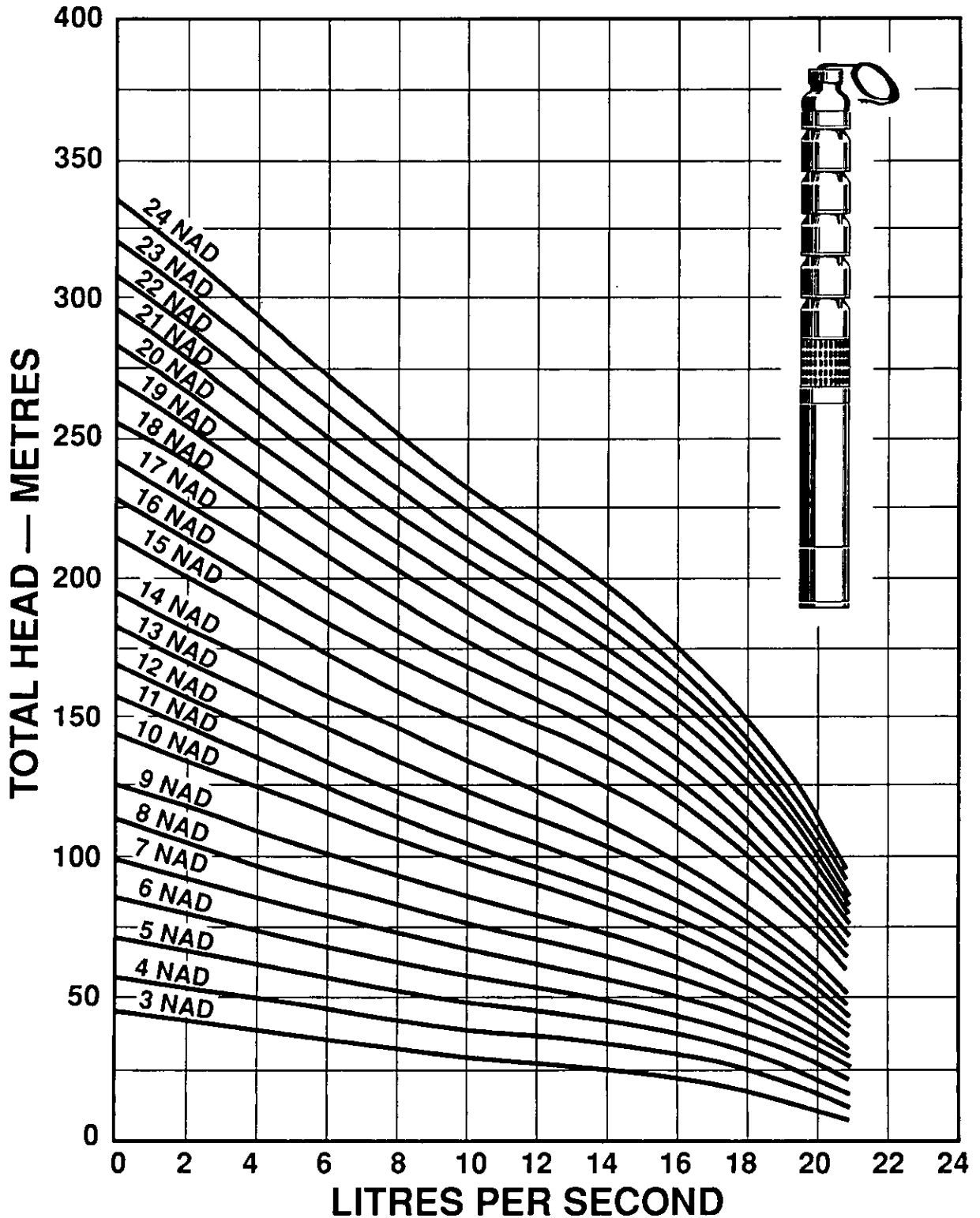


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**SUBMERSIBLE BOREHOLE PUMP
PERFORMANCE DATA**

MODEL NAD





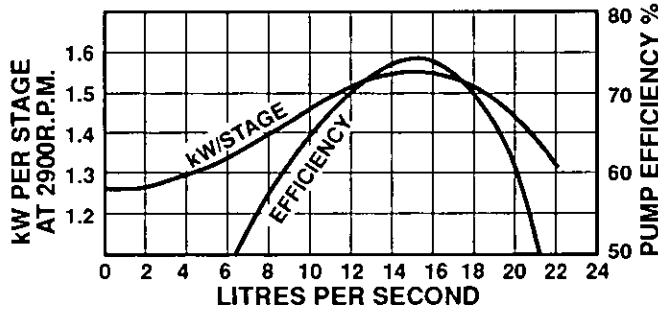
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MODEL NAD

**SUBMERSIBLE BOREHOLE PUMP
TECHNICAL DATA**

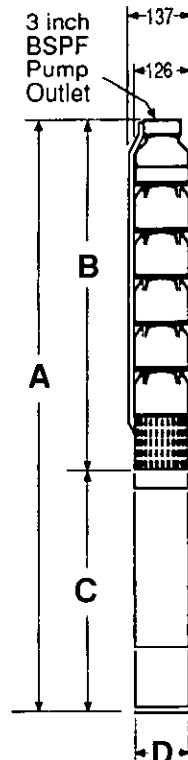
PUMP EFFICIENCY AND KW / STAGE



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NAD DIMENSIONS & WEIGHTS

STAGES	MOTOR kW	NAD WITH FRANKLIN MOTORS DIMENSIONS IN mm					UNIT MASS kg	STAGES	MOTOR kW	NAD WITH HITACHI MOTORS DIMENSIONS IN mm				UNIT MASS kg
		A	B	C	D	A				B	C	D		
3	5.5	1392	714	678	138	75	3	5.5	1344	714	630	140	81	
4	7.5	1564	854	710	138	86	4	7.5	1538	853	685	140	93	
5	7.5	1703	993	710	138	99	5	7.5	1678	993	685	140	100	
6	11	1908	1133	775	138	105	6	11	1892	1132	760	140	115	
7	11	2047	1272	775	138	112	7	11	2032	1272	760	140	122	
8	15	2251	1411	840	138	126	8	15	2261	1411	850	140	138	
9	15	2391	1551	840	138	132	9	15	2401	1551	850	140	144	
10	15	2530	1690	840	138	228	10	15	2540	1690	850	140	151	
11	18.5	2735	1830	905	138	151	11	18.5	2750	1830	920	140	161	
12	18.5	2875	1970	905	138	158	12	18.5	2889	1969	920	140	168	
13	18.5	3014	2109	905	138	165	13	18.5	3029	2109	920	140	175	
14	22	3219	2249	970	138	177	14	22	3218	2248	970	140	185	
15	22	3358	2388	970	138	184	15	22	3358	2388	970	140	192	
16	30	3628	2528	1100	138	203	16	30	3587	2527	1060	140	207	
17	30	3767	2667	1100	138	210	17	30	3727	2667	1060	140	214	
18	30	3906	2806	1100	138	214	18	30	3866	2806	1060	140	218	
19	30	4046	2946	1100	138	223	19	30	4006	2946	1060	140	227	
20	30	4185	3085	1100	138	230	20	30	4145	3085	1060	140	234	
21	37	4693	3225	1468	138	270								
22	37	4832	3364	1468	138	277								
23	37	4972	3504	1468	138	284								
24	37	5111	3643	1468	138	290								



ELECTRICAL DATA 6 INCH MOTORS 415V 50 Hz 3 PHASE

kW	FRANKLIN				HITACHI			
	THRUST kg	FLA	RPM	LRA	THRUST kg	FLA	RPM	LRA
5.5	680	12.7	2882	66	1600	11.8	2835	52
7.5	1600	16.3	2880	90.6	1600	15.3	2865	90
11	1600	24.0	2875	137	1600	22.0	2856	123
15	1600	31.0	2867	179	1600	29.4	2847	153
18.5	1600	38.7	2868	240	1600	36.1	2841	186
22	1600	46.0	2877	278	1600	43.7	2850	233
30	1600	63.5	2887	407	2250	56.4	2814	278
37	2800	77.0	2890	426				

MATERIALS OF CONSTRUCTION

Pump Inlet and Outlet	Phosphor Bronze (ZF)
Inlet Strainer	Stainless Steel (Type 321)
Shaft	Stainless Steel (Type 302)
Impeller, Stage Casing	Phosphor Bronze (ZF)
Impeller Sleeve	Stainless Steel (Type 431)
Shaft Bearing	Water Lubricated, Spiral Cut Rubber.
Non-return Valve	Phosphor Bronze (ZF)
Cable Protector	Stainless Steel (Type 302)

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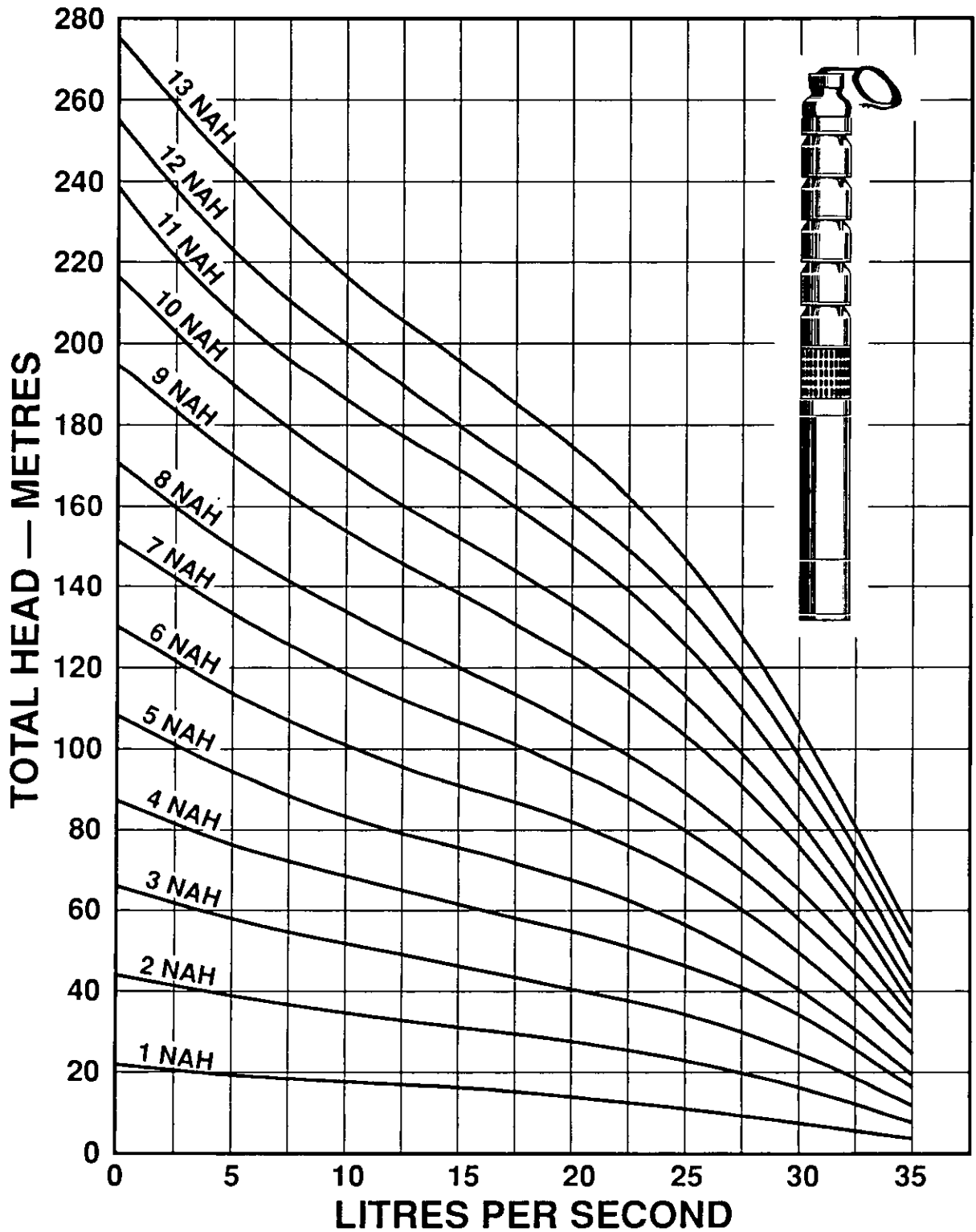


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**SUBMERSIBLE BOREHOLE PUMP
PERFORMANCE DATA**

**MODEL
NAH**

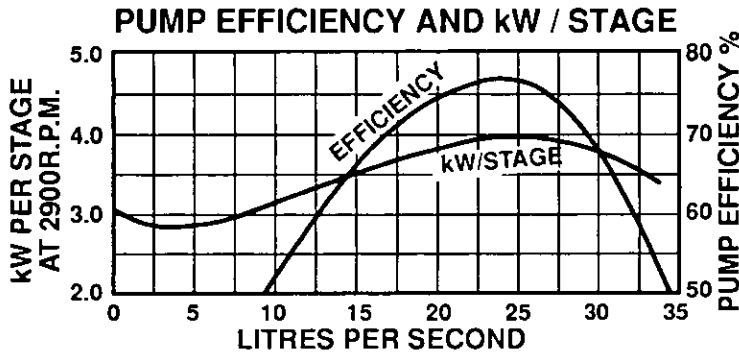




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MODEL NAH

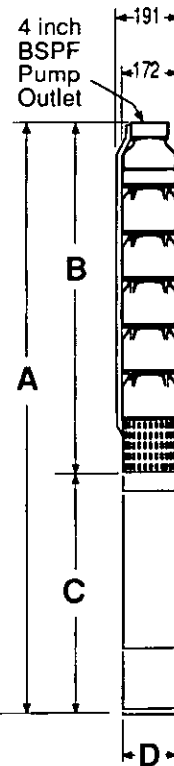
SUBMERSIBLE BOREHOLE PUMP TECHNICAL DATA



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AS 9001 Lic. 183
Sydney, Australia
Quality Endorsed Company

NAH DIMENSIONS & WEIGHTS

STAGES	MOTOR kW	NAH WITH FRANKLIN MOTORS DIMENSIONS IN mm				UNIT MASS kg	STAGES	MOTOR kW	NAH WITH HITACHI MOTORS DIMENSIONS IN mm				UNIT MASS kg
		A	B	C	D				A	B	C	D	
6 INCH MOTORS													
1	5.5	1142	464	678	138	70	1	5.5	1094	464	630	140	76
2	7.5	1318	608	710	138	87	2	7.5	1293	608	685	140	94
3	11	1528	753	775	138	75	3	11	1513	753	760	140	114
4	15	1737	897	840	138	86	4	15	1747	897	850	140	134
5	18.5	1947	1042	905	138	99	5	18.5	1962	1042	920	140	150
6	22	2156	1186	970	138	105	6	22	2156	1186	970	140	165
7	30	2431	1331	1100	138	112	7	30	2391	1331	1060	140	185
8	30	2575	1475	1100	138	126	8	30	2535	1475	1060	140	196
9	37	3088	1620	1468	138	132	8 INCH MOTORS						
10	37	3232	1764	1468	138	228	9	37	2671	1664	1007	175	266
11	45	3530	1909	1621	138	151	10	37	2816	1809	1007	175	277
12	45	3674	2053	1621	138	158	11	45	3010	1953	1057	175	297
13	55	3532	2242	1290	191	184	12	45	3155	2098	1057	175	309
							13	55	3592	2242	1350	191	352



ELECTRICAL DATA 6 & 8 INCH MOTORS 415V 50 Hz 3 PHASE

kW	THRUST kg	FLA	RPM	LRA	THRUST kg	FLA	RPM	LRA
6 INCH FRANKLIN MOTORS				6 INCH HITACHI MOTORS				
5.5	680	12.7	2882	66	1600	11.8	2835	52
7.5	1600	16.3	2880	90.6	1600	15.3	2865	90
11	1600	24.0	2875	137	1600	22.0	2856	123
15	1600	31.0	2867	179	1600	29.4	2847	153
18.5	1600	38.7	2868	240	1600	36.1	2841	186
22	1600	46.0	2877	278	1600	43.7	2850	233
30	1600	63.5	2887	407	2250	56.4	2814	278
37	2800	77.0	2890	426	8 INCH HITACHI MOTORS			
45	2800	92.0	2875	582				
8 INCH FRANKLIN MOTORS								
37	4550	75	2920	468	4600	70.7	2840	307
45	4550	88	2920	602	4600	84.6	2827	355
55	4550	108	2925	689	4600	102	2807	369

MATERIALS OF CONSTRUCTION

Pump Inlet and Outlet	Phosphor Bronze (ZF)
Inlet Strainer	Stainless Steel (Type 321)
Shaft	Stainless Steel (Type 302)
Impeller, Stage Casing	Phosphor Bronze (ZF)
Impeller Sleeve	Stainless Steel (Type 431)
Shaft Bearing	Water Lubricated, Spiral Cut Rubber.
Non-return Valve	Phosphor Bronze (ZF)
Cable Protector	Stainless Steel (Type 302)

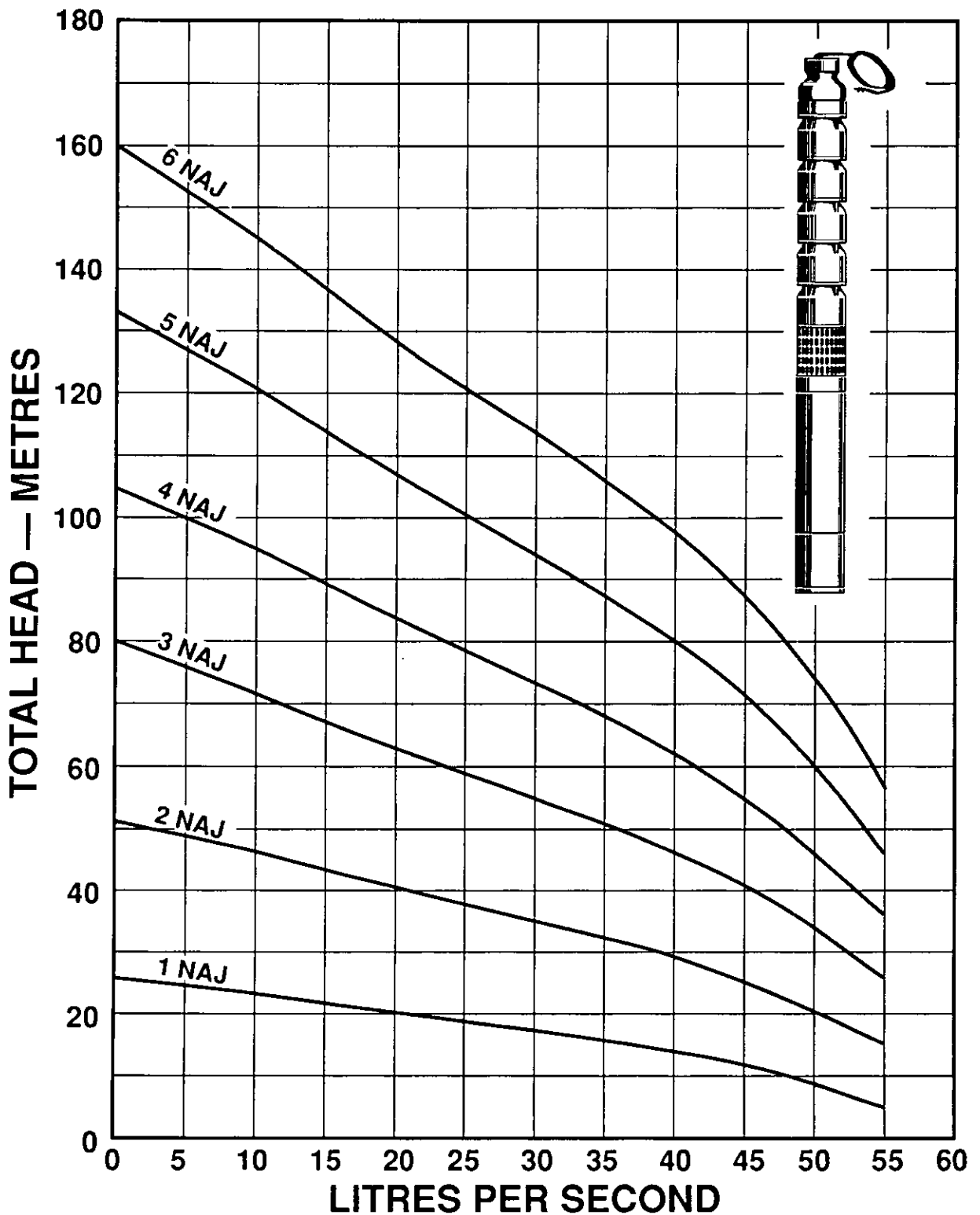
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**SUBMERSIBLE BOREHOLE PUMP
PERFORMANCE DATA**

MODEL NAJ





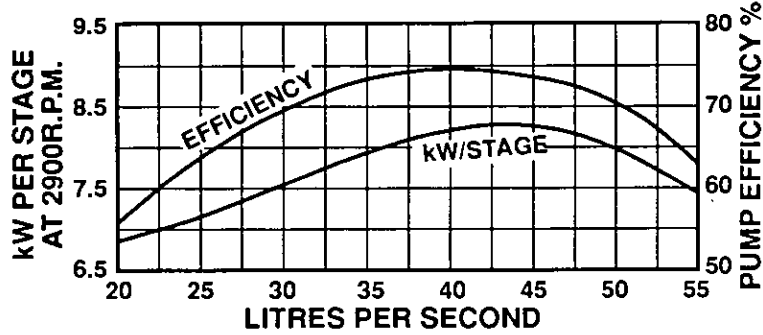
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MODEL NAJ

SUBMERSIBLE BOREHOLE PUMP TECHNICAL DATA

PUMP EFFICIENCY AND KW / STAGE

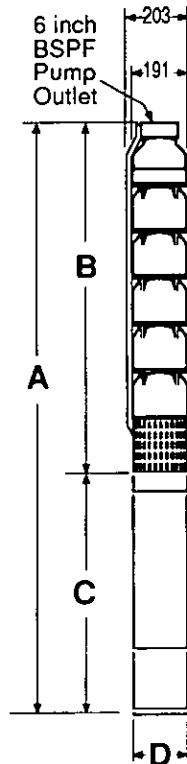


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Manufacturing Division
255 Huhner St. Toowoomba, Queensland.

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ASME Lic. 183
Standard Australia

NAJ DIMENSIONS & WEIGHTS

STAGES	MOTOR kW	NAJ WITH FRANKLIN MOTORS DIMENSIONS IN mm				UNIT MASS kg	STAGES	MOTOR kW	NAJ WITH HITACHI MOTORS DIMENSIONS IN mm				UNIT MASS kg
		A	B	C	D				A	B	C	D	
6 INCH MOTORS													
1	11	1349	574	775	138	94	1	11	1334	574	760	140	104
2	18.5	1657	752	905	138	121	2	18.5	1672	752	920	140	131
3	30	2030	930	1100	138	154	3	30	1990	930	1060	140	158
4	37	2576	1108	1468	138	202	8 INCH MOTORS						
5	45	2907	1286	1621	138	230	4	37	2204	1197	1007	175	230
4	37	2284	1197	1087	191	243	5	45	2432	1375	1057	175	253
5	45	2538	1375	1163	191	272	6	55	2903	1553	1350	191	299
6	55	2843	1553	1290	191	306							



ELECTRICAL DATA 6 & 8 INCH MOTORS 415V 50 Hz 3 PHASE

kW	THRUST kg	FLA	RPM	LRA	THRUST kg	FLA	RPM	LRA
6 INCH FRANKLIN MOTORS								
11	1600	24.0	2875	137	6 INCH HITACHI MOTORS			
18.5	1600	38.7	2868	240	1600	22.0	2856	123
30	1600	63.5	2887	407	1600	36.1	2841	186
37	2800	77.0	2890	426	2250	56.4	2814	278
45	2800	92.0	2875	582				
8 INCH FRANKLIN MOTORS								
37	4550	75	2920	468	8 INCH HITACHI MOTORS			
45	4550	88	2920	602	4600	70.7	2840	307
55	4550	108	2925	689	4600	84.6	2827	355
					4600	102	2807	369

MATERIALS OF CONSTRUCTION

Pump Inlet and Outlet	Phosphor Bronze (ZF)
Inlet Strainer	Stainless Steel (Type 321)
Shaft	Stainless Steel (Type 302)
Impeller, Stage Casing	Phosphor Bronze (ZF)
Impeller Sleeve	Stainless Steel (Type 431)
Shaft Bearing	Water Lubricated, Spiral Cut Rubber.
Non-return Valve	Phosphor Bronze (ZF)
Cable Protector	Stainless Steel (Type 302)

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