

Submersible Pumps

Product advantages and specification

Raindrop 8" Submersible Pumps are a result of many years of field experience, R&D, designing and excellence in engineering resulting into a product, which gives wide range of solution to most complicated and critical applications. These pumps are available in mixed flow design suitable for wide range of heads and flow rates.

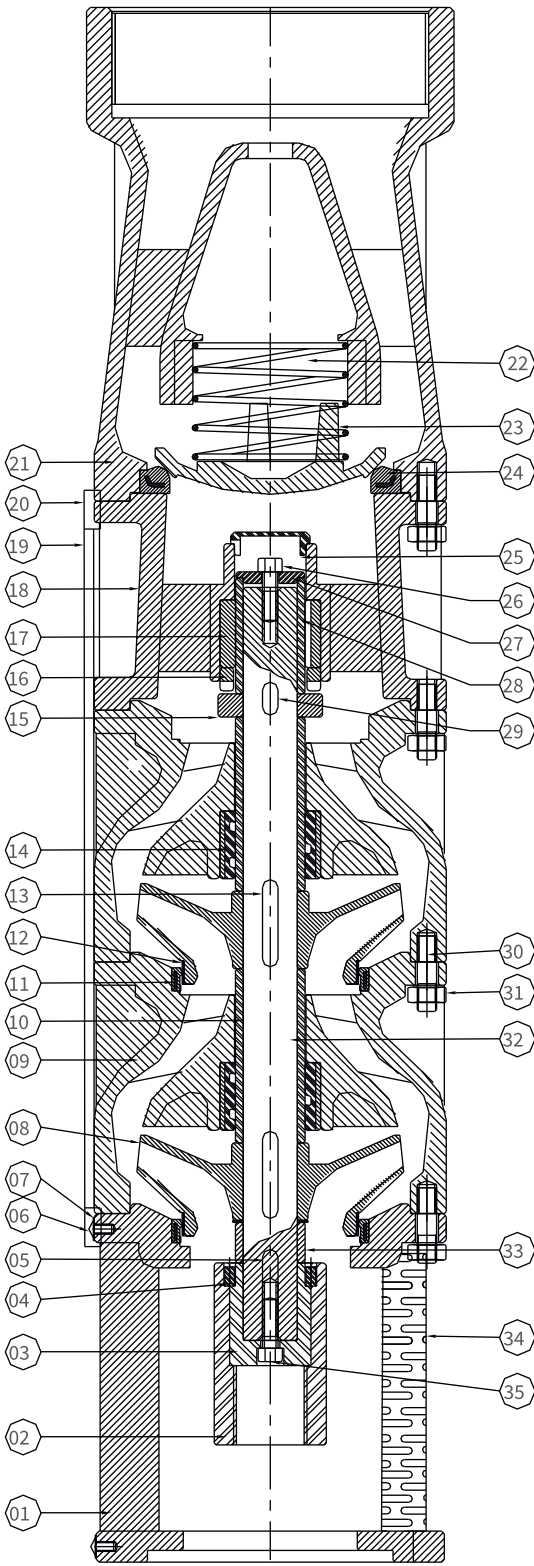
SPECIFICATIONS & ADVANTAGES:

1. Suction, Stage Casing And Discharge Outlets are made of Cast Iron and also available in stainless steel on request.
2. Impellers of mixed flow are available in Bronze or Stainless Steel.
3. Sleeves are made of Stainless Steel reinforced with Chromium to increase wear resistance against sand.
4. Pump shaft is made of Stainless Steel.
5. Bearing Bush for shaft is made of anti friction rubber to provide wear resistance against sand.
6. Non Return Valve is made of Cast Iron.
7. Cable Guard and Strainer are of Stainless Steel.
8. Pump and Motor coupling is according to NEMA standard.
9. Minimum water on aspiration is one meter.
10. 6" and 8" motor connection are also available.
11. Complete Stainless Steel pump is available on request.
- 12.. Operating range:
Head range : 11 mtr to 282 mtr
Flow rate : 200 lpm to 3500 lpm
Immersion : 1 mtr minimum
13. Maximum level of sand content: 50 gm /m3
14. Application: These pumps are for domestic, agriculture & industrial usage.

8RPM 250, 8RPM 350, 8RPM 500, 8RPM 600, 8RPM 700, 8RPM 800, 8RPM 810, 8RPM 1000, 8RPM 1250, 8RPM 1500 SERIES PUMP DESIGN

Material Specification

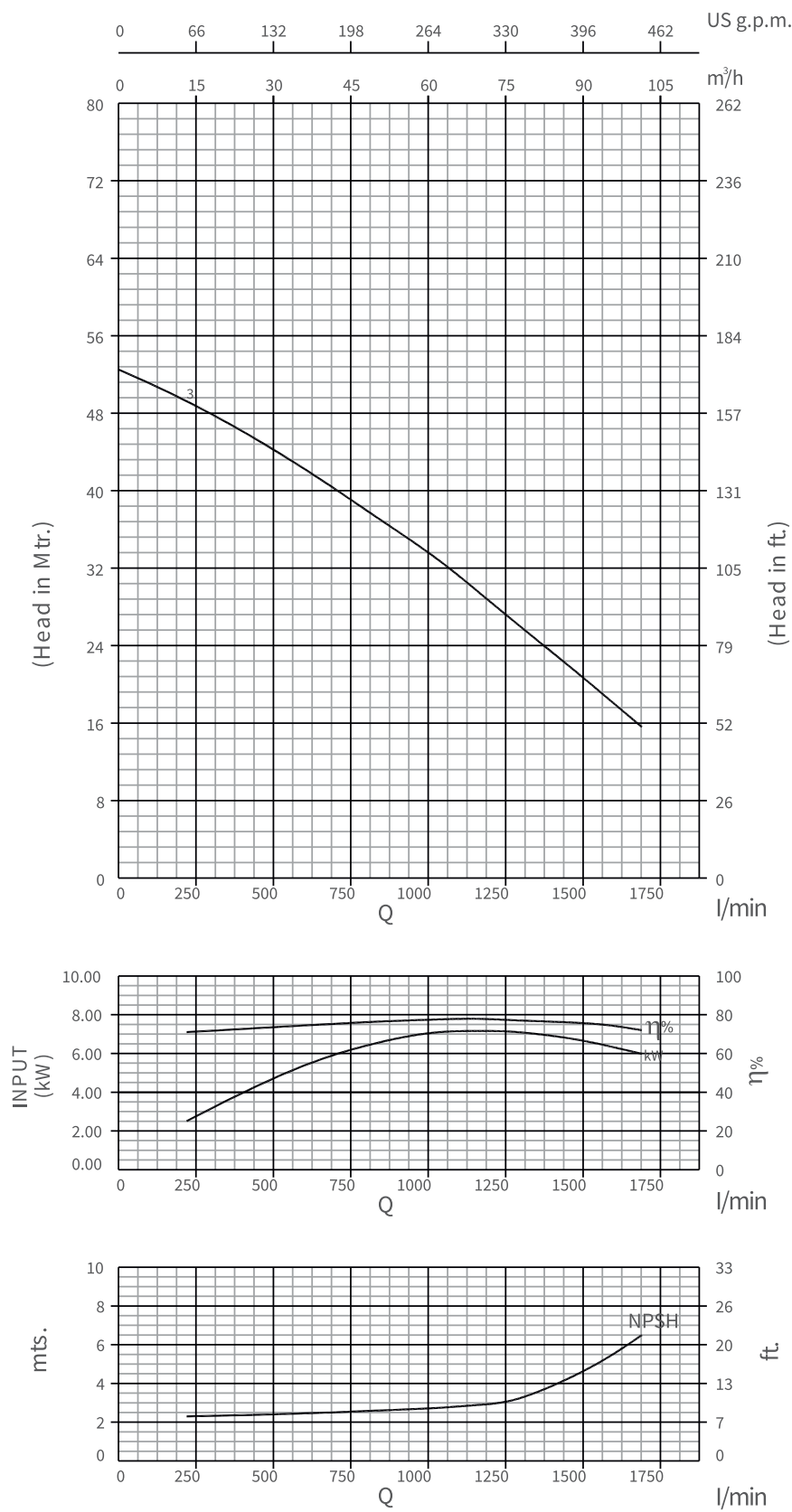
NO	PART NAME	MATERIAL
1	SUCTION	C.I (F.G200)
2	NEMA COUPLING SLEEVE	S.S.304
3	NEMA SLEEVE	S.S.304
4	GRUB SCREW	S.S.304
5	COUPLING KEY	S.S.304
6	SCREW	S.S.304
7	STRAINER SCREW WASHER	S.S.304
8	IMPELLER (G.M)	G.M
	IMPELLER (C.I)	C.I (F.G200)
	IMPELLER (S.S.410)	S.S.410
	IMPELLER (I.C)	I.C
9	BOWL	C.I (F.G200)
10	BOWL SLEEVE	S.S.410
11	BOWL NECK RING	M.S/N.B.R
12	IMPELLER NECK RING	S.S.202
13	IMPELLER KEY	S.S.304
14	METAL RUBBER BUSH	M.S/N.B.R
15	THRUST PLATE	S.S.410
16	COUNTER THRUST RING	G.M
17	BEARING BUSH	L.T.B-4 (2%NI)
18	DOL CABLE GUARD	C.I (F.200)
19	CABLE CLIP	S.S.202
20	N.R.V	S.S.202
21	N.R.V CONE SPRING	C.I (F.G200)
22	N.R.V CONE	SPRING STEEL
23	N.R.V NECKRING	C.I (F.G200)
24	P.V.C CAP	M.S/N.B.R
25	HEX BOLT (TOP SIDE)	PLASTIC
26	TOP COLLAR	S.S.202
27	TOP SLEEVE	S.S.410
28	DOL KEY	S.S.410
29	STUD	S.S.304
30	NUT	S.S.410
31	PUMP SHAFT	S.S.202
32	DISTANCE SLEEVE	S.S.410
33	STRAINER	S.S.410
34	ALLEN BOLT	S.S.202
35		S.S.304



Performance Curves

8RPM 250, 50Hz

ISO 9906 Annexure A



Performance Chart

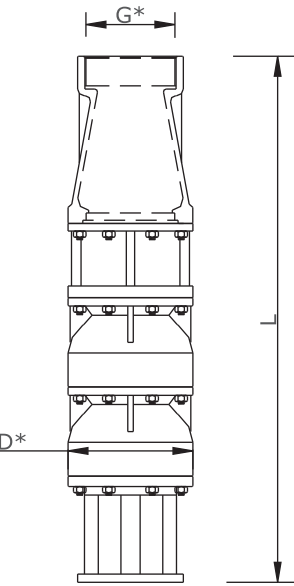
8RPM 250, 50Hz

ISO 9906 Annexure A

Model Name	Stage	Rating			Discharge											
		kW	HP		l/min	0	220	550	820	1020	1160	1280	1490	1600	1690	
Three Phase					m³/h	0	13.2	33.0	49.2	61.2	69.6	76.8	89.4	96.0	101.4	

8RPM 250-03	3	7.50	10.00	HEAD IN FEET	52	50	44	38	33	30	26	21	18	16		
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Dimensions & Weights



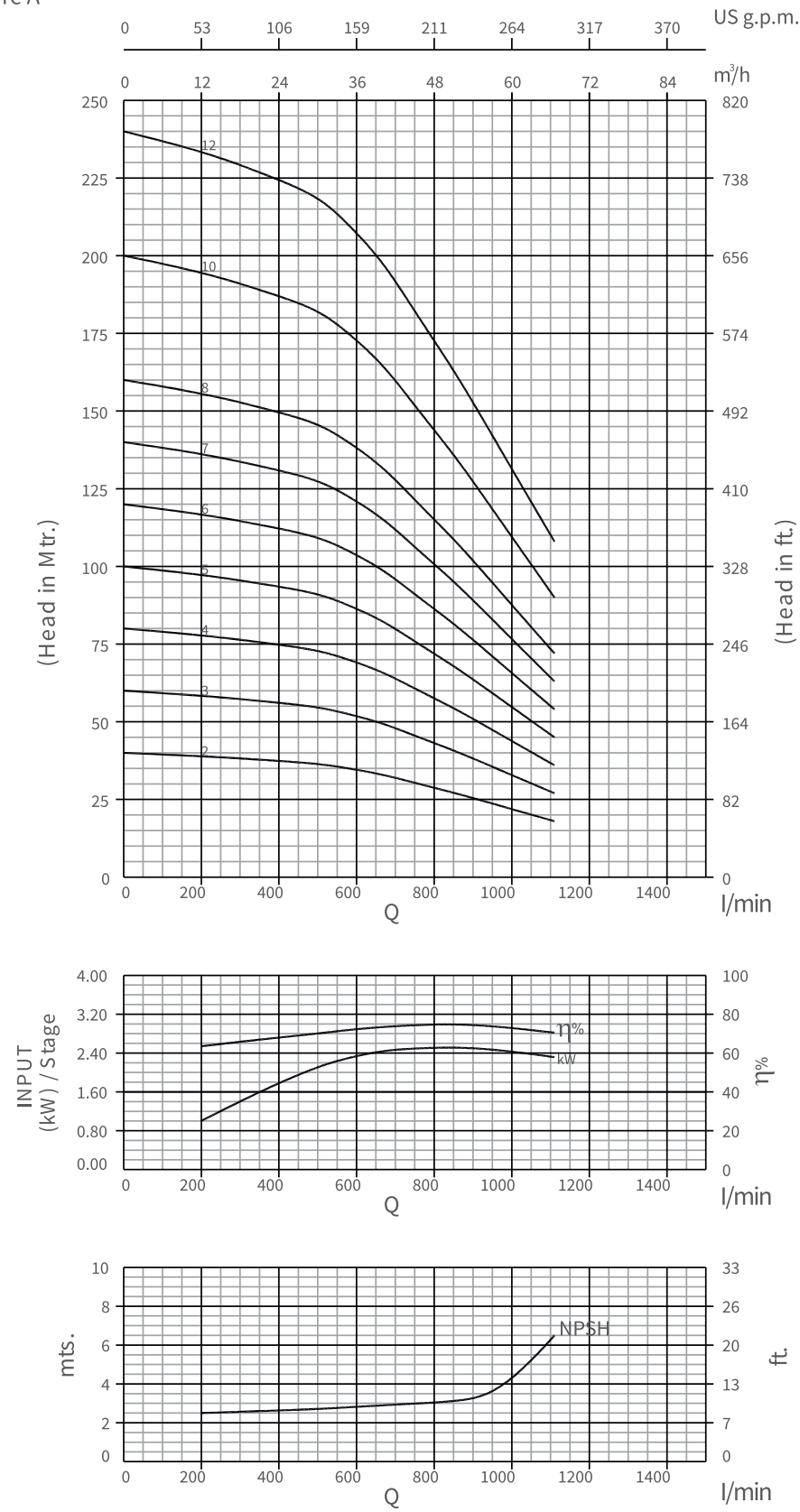
Model name	Specification			
	D	L	Weight (kg)	Weight (incl.pkg) (kg)
8RPM 250-03	182	885	62.5	70.5

*D: With Cable Guard
*G: Available Outlet Size 3" & 4"

Performance Curves

8RPM 350, 50Hz

ISO 9906 Annexure A



Performance Chart

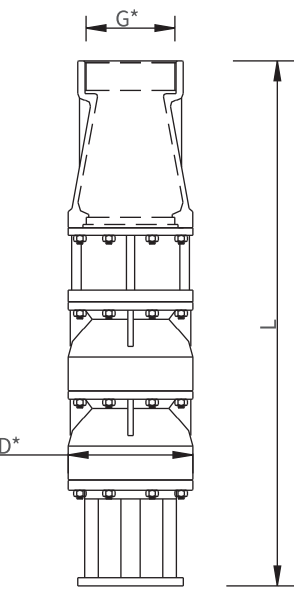
8RPM 350, 50Hz

ISO 9906 Annexure A

Model Name		Rating			Discharge											
		kW	HP		l/min	0	200	350	500	580	670	760	860	980	1110	
Three Phase	Stage				m³/h	0	12.0	21.0	30.0	34.8	40.2	45.6	51.6	58.8	66.6	

Model Name	Stage	kW	HP	HEAD IN Mtrs.	40	39	38	37	35	33	30	27	23	18	
					60	58	57	55	52	50	45	40	34	27	
8RPM 350-02	2	5.50	7.50		80	78	76	73	70	66	60	54	45	36	
8RPM 350-03	3	9.30	12.50		100	98	94	92	88	82	75	67	56	45	
8RPM 350-04	4	11.00	15.00		120	117	113	110	105	99	90	81	68	54	
8RPM 350-05	5	15.00	20.00		140	136	132	128	122	116	105	94	79	63	
8RPM 350-06	6	18.50	25.00		160	156	151	146	140	132	120	108	90	72	
8RPM 350-07	7	22.00	30.00		200	195	189	183	175	165	150	135	113	90	
8RPM 350-08	8	26.00	35.00		240	234	227	220	210	198	180	162	136	108	
8RPM 350-10	10	30.00	40.00												
8RPM 350-12	12	37.00	50.00												

Dimensions & Weights



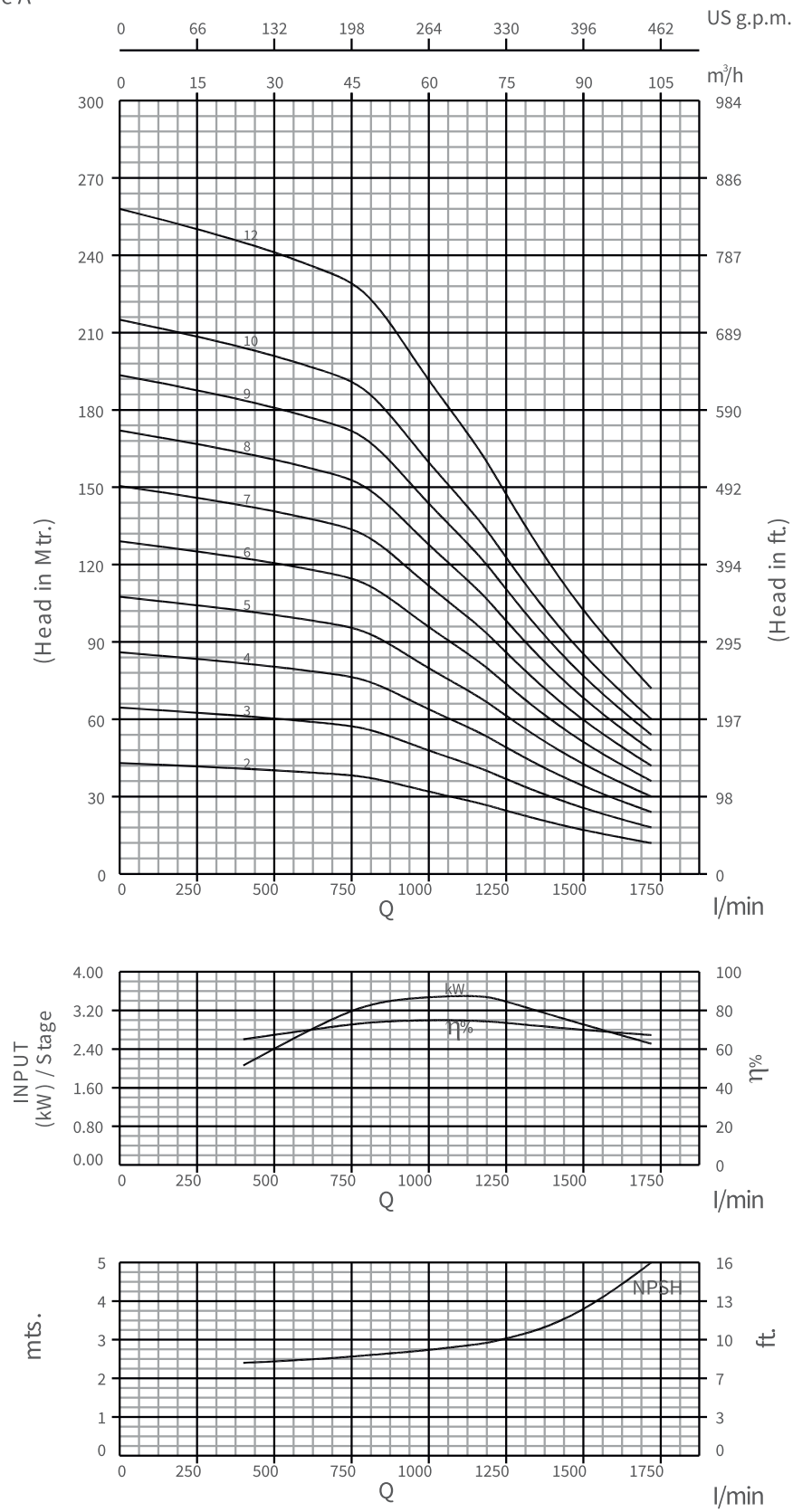
Model name	Specification			
	D	L	Weight (kg)	Weight (incl.pkg)[kg]
8RPM 350-02	182	765	51.5	59.5
8RPM 350-03	182	885	62.5	70.5
8RPM 350-04	182	990	73.5	81.5
8RPM 350-05	182	1195	84.5	92.5
8RPM 350-06	182	1200	95.5	103.5
8RPM 350-07	182	1305	106.5	114.5
8RPM 350-08	182	1410	117.5	125.5
8RPM 350-10	182	1620	139.5	147.5
8RPM 350-12	182	1830	161.5	169.5

*D:With Cable Guard
*G:Available Outlet Size 3" & 4"

Performance Curves

8RPM 500, 50Hz

ISO 9906 Annexure A



Performance Chart

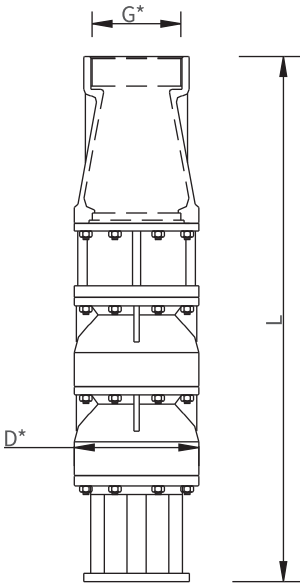
8RPM 500, 50Hz

ISO 9906 Annexure A

Model Name		Rating			Discharge									
Three Phase	Stage	kW	HP	l/min	0	400	660	800	960	1070	1180	1235	1480	1720
				m³/h	0	24.0	39.6	48.0	57.6	64.2	70.8	74.1	88.8	103.2

Model Name	Stage	kW	HP	HEAD IN Mtrs.	43	41	39	38	33	30	27	25	17	12
					64	62	58	57	50	45	40	38	26	18
8RPM 500-02	2	7.50	10.00		86	82	78	76	66	60	54	50	34	24
8RPM 500-03	3	11.00	15.00		108	102	98	95	82	75	68	62	42	30
8RPM 500-04	4	15.00	20.00		129	123	117	114	99	90	81	75	51	36
8RPM 500-05	5	18.50	25.00		150	144	136	133	116	105	94	88	60	42
8RPM 500-06	6	22.00	30.00		172	164	156	152	132	120	108	100	68	48
8RPM 500-07	7	26.00	35.00		194	184	176	171	148	135	122	112	76	54
8RPM 500-08	8	30.00	40.00		215	205	195	190	165	150	135	125	85	60
8RPM 500-09	9	33.00	45.00		258	246	234	228	198	180	162	150	102	72
8RPM 500-10	10	37.00	50.00											
8RPM 500-12	12	45.00	60.00											

Dimensions & Weights



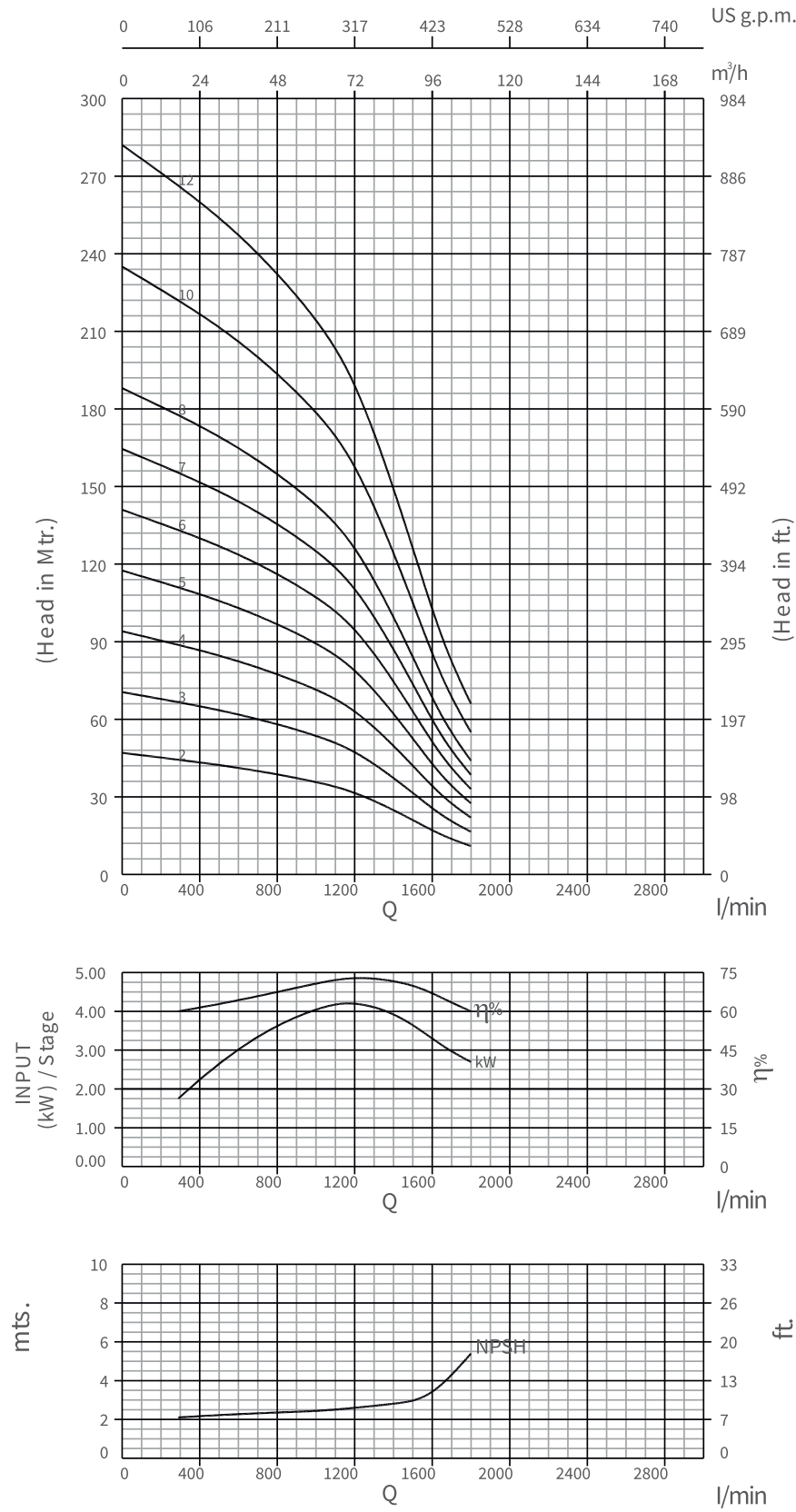
Model name	Specification			
	D	L	Weight (kg)	Weight (incl.pkg)[kg]
8RPM 500-02	199	803	52	59.5
8RPM 500-03	199	933	63	70.5
8RPM 500-04	199	1063	74	81.5
8RPM 500-05	199	1193	85	92.5
8RPM 500-06	199	1323	96	103.5
8RPM 500-07	199	1453	107	114.5
8RPM 500-08	199	1583	118	125.5
8RPM 500-09	199	1713	129	136.5
8RPM 500-10	199	1843	130	147.5
8RPM 500-12	199	2103	152	169.5

*D:With Cable Guard
*G:Available Outlet Size 3" & 4"

Performance Curves

8RPM 600, 50Hz

ISO 9906 Annexure A



Performance Chart

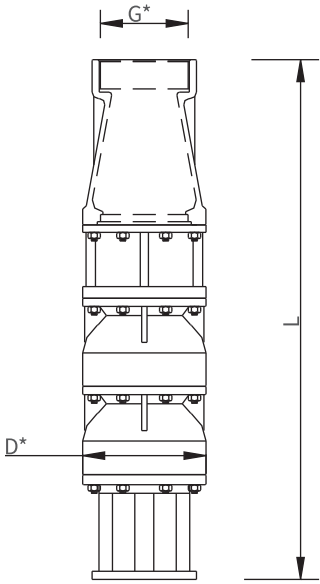
8RPM 600, 50Hz

ISO 9906 Annexure A

Model Name	Stage	Rating			Discharge									
		kW	HP		l/min m³/h	0	290	600	1000	1200	1400	1550	1680	1800
Three Phase						0	17.4	36.0	60.0	72.0	84.0	93.0	100.8	108

8RPM 600-02	2	9.30	12.50	HEAD IN Mtrs.	47	44	42	36	32	25	19	14	11
8RPM 600-03	3	13.00	17.50		70	67	62	54	48	38	28	21	16
8RPM 600-04	4	18.50	25.00		94	89	83	72	64	50	38	28	22
8RPM 600-05	5	22.00	30.00		118	111	104	90	80	62	48	35	28
8RPM 600-06	6	26.00	35.00		141	133	125	108	96	75	57	42	33
8RPM 600-07	7	30.00	40.00		164	156	145	126	112	88	66	49	38
8RPM 600-08	8	37.00	50.00		188	178	166	144	128	100	76	56	44
8RPM 600-10	10	45.00	60.00		235	222	208	180	160	125	95	70	55
8RPM 600-12	12	52.00	70.00		282	267	249	216	192	150	114	84	66

Dimensions & Weights



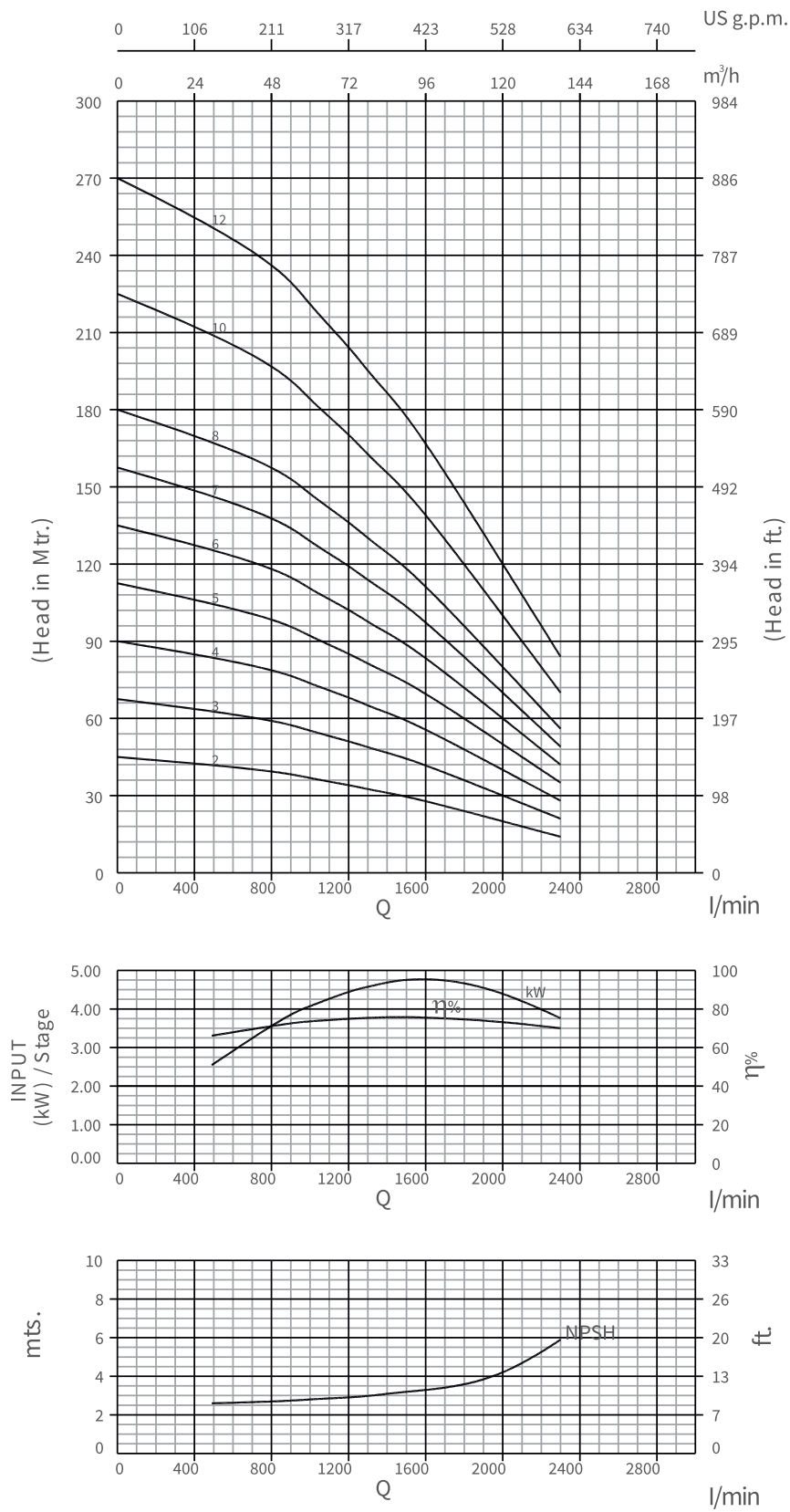
Model name	Specification			
	D	L	Weight (kg)	Weight (incl.pkg)[kg]
8RPM 600-02	199	803	51.0	59.0
8RPM 600-03	199	933	62.0	70.0
8RPM 600-04	199	1063	73.0	81.0
8RPM 600-05	199	1193	83.5	91.5
8RPM 600-06	199	1323	94.5	102.5
8RPM 600-07	199	1453	105.0	113.0
8RPM 600-08	199	1583	116.0	124.0
8RPM 600-10	199	1843	138.0	146.0
8RPM 600-12	199	2103	160.0	168.0

*D:With Cable Guard
*G:Available Outlet Size 3" & 4"

Performance Curves

8RPM 700, 50Hz

ISO 9906 Annexure A



Performance Chart

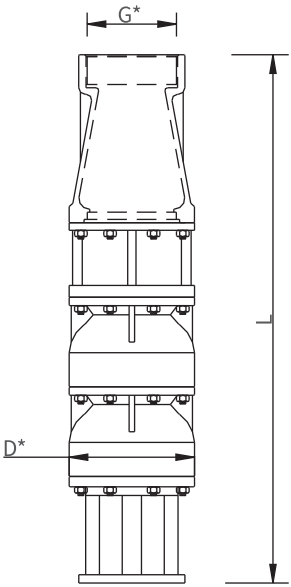
8RPM 700, 50Hz

ISO 9906 Annexure A

Model Name		Rating			Discharge									
Three Phase	Stage	kW	HP	l/min m ³ /h	0	490	870	980	1210	1330	1485	1750	2050	2300

8RPM 700-02	2	11.00	15.00	HEAD IN Mtrs.	45	42	39	37	34	32	30	25	19	14
8RPM 700-03	3	15.00	20.00		68	63	58	56	51	48	45	38	28	21
8RPM 700-04	4	22.00	30.00		90	84	78	74	68	64	60	50	38	28
8RPM 700-05	5	26.00	35.00		112	105	98	92	85	80	75	62	48	35
8RPM 700-06	6	33.00	45.00		135	126	117	111	102	96	90	75	57	42
8RPM 700-07	7	37.00	50.00		158	147	136	130	119	112	105	88	66	49
8RPM 700-08	8	45.00	60.00		180	168	156	148	136	128	120	100	76	56
8RPM 700-10	10	52.00	70.00		225	210	195	185	170	160	150	125	95	70
8RPM 700-12	12	67.00	90.00		270	252	234	222	204	192	180	150	114	84

Dimensions & Weights



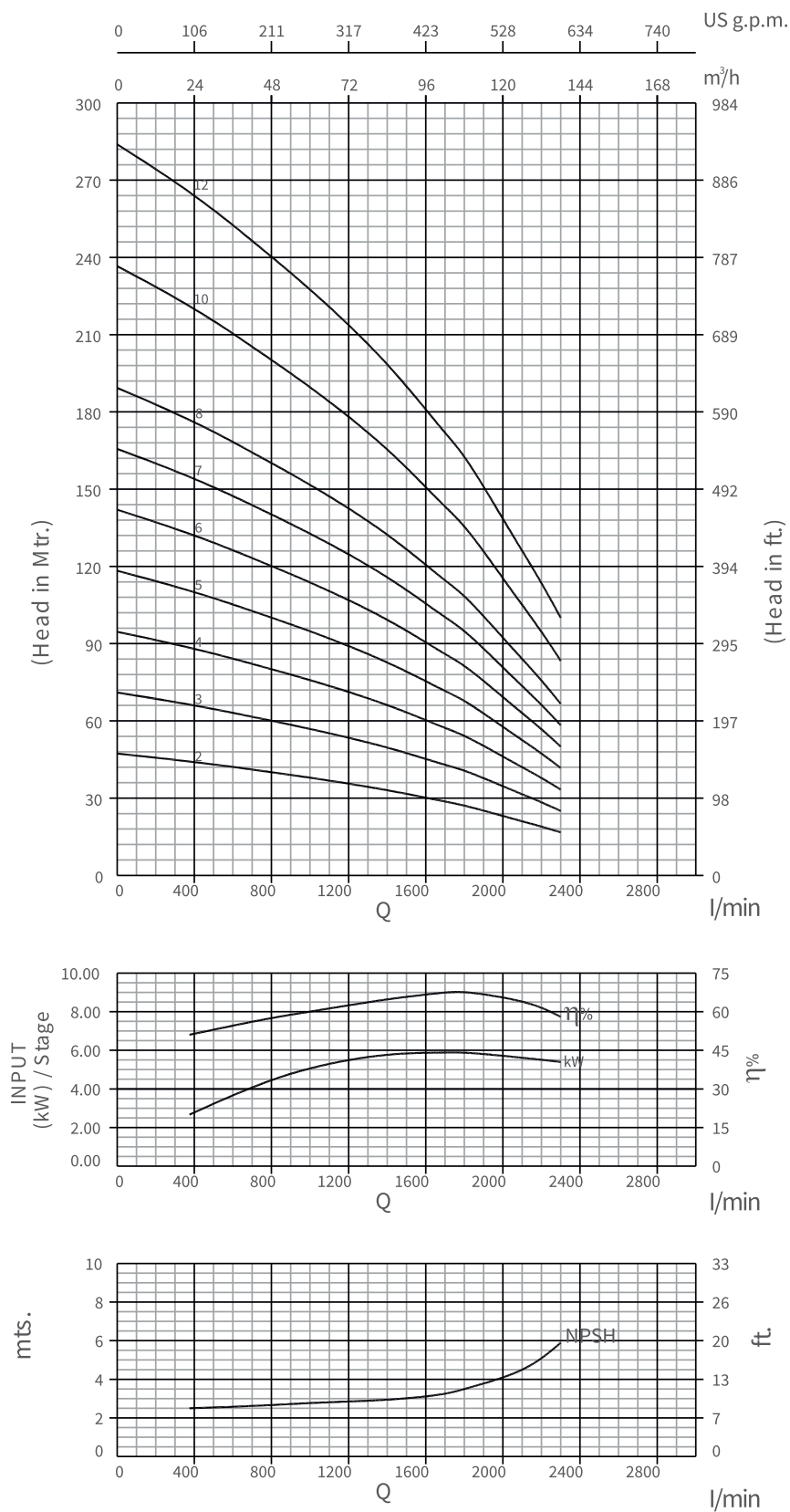
Model name	Specification			
	D	L	Weight (kg)	Weight (incl. pkg.) (kg)
8RPM 700-02	199	806	51.5	59.5
8RPM 700-03	199	936	62.0	70.0
8RPM 700-04	199	1066	73.0	81.0
8RPM 700-05	199	1196	84.0	92.0
8RPM 700-06	199	1326	95.0	103.0
8RPM 700-07	199	1456	106.0	114.0
8RPM 700-08	199	1586	117.0	125.0
8RPM 700-10	199	1846	139.0	147.0
8RPM 700-12	199	2106	161.0	169.0

*D:With Cable Guard
*G:Available Outlet Size 3" & 4"

Performance Curves

8RPM 800, 50Hz

ISO 9906 Annexure A



Performance Chart

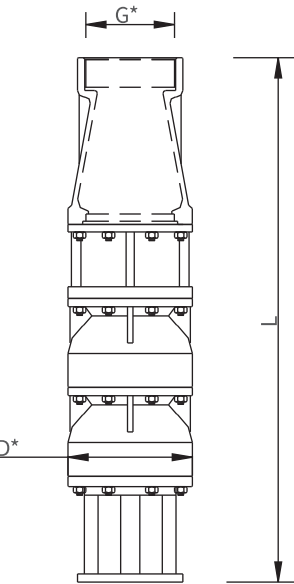
8RPM 800, 50Hz

ISO 9906 Annexure A

Model Name		Rating			Discharge											
Three Phase	Stage	kW	HP	l/min	0	375	710	1000	1400	1700	1800	2050	2200	2300		
				m³/h	0	22.5	42.6	60.0	84.0	102	108	123	132	138		

Model Name	Stage	kW	HP	HEAD IN Mtrs.	47	44	41	38	33	29	27	22	19	17
					71	67	61	57	50	43	41	33	28	25
8RPM 800-02	2	13.00	17.50		95	89	82	76	67	57	55	44	38	33
8RPM 800-03	3	18.50	25.00		118	111	102	95	83	71	68	55	48	42
8RPM 800-04	4	26.00	35.00		142	133	123	114	100	86	82	66	57	50
8RPM 800-05	5	30.00	40.00		166	155	143	133	117	100	96	77	66	58
8RPM 800-06	6	37.00	50.00		189	178	164	152	133	114	109	88	76	67
8RPM 800-07	7	45.00	60.00		237	222	205	190	167	143	137	110	95	83
8RPM 800-08	8	52.00	70.00		284	266	246	228	200	171	164	132	114	100
8RPM 800-10	10	60.00	80.00											
8RPM 800-12	12	75.00	100.0											

Dimensions & Weights

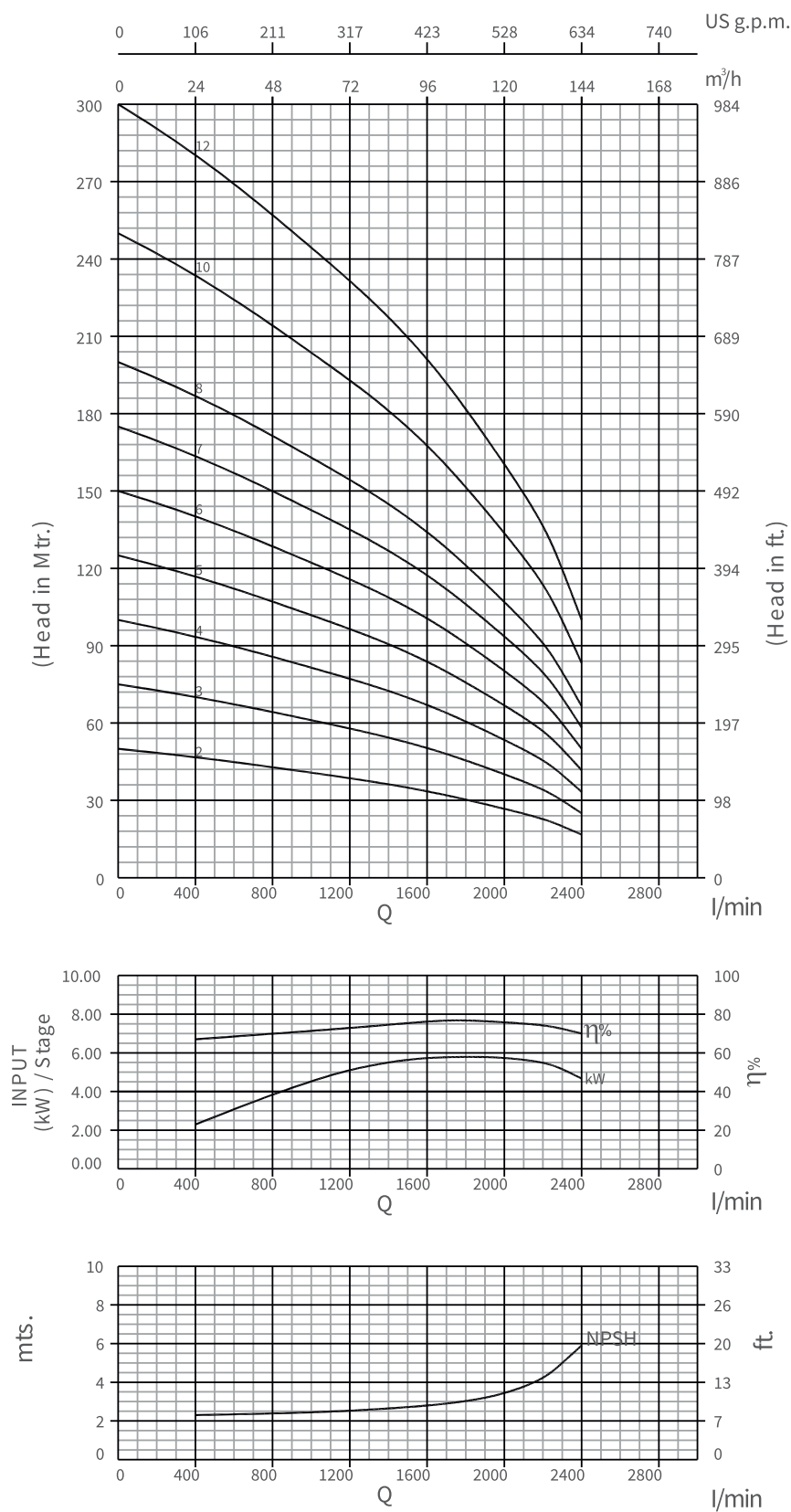


Model name	Specification			Weight (incl.pkg)[kg]
	D	L	Weight (kg)	
8RPM 800-02	203	793	51.5	59.5
8RPM 800-03	203	916	62.5	70.5
8RPM 800-04	203	1046	73.5	81.5
8RPM 800-05	203	1176	84.5	92.5
8RPM 800-06	203	1306	96.0	104.0
8RPM 800-07	203	1436	107.0	115.0
8RPM 800-08	203	1566	118.0	126.0
8RPM 800-10	203	1826	140.0	148.0
8RPM 800-12	203	2086	162.0	170.0

*D:With Cable Guard
*G:Available Outlet Size 3" & 4"

Performance Curves

8RPM 810, 50Hz
ISO 9906 Annexure A



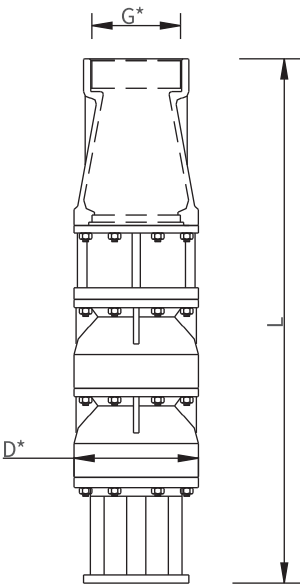
Performance Chart

8RPM 810, 50Hz
ISO 9906 Annexure A

Model Name		Rating			Discharge												
Three Phase	Stage	kW	HP	l/min m ³ /h	0	400	960	1350	1620	1790	1970	2200	2300	2400			
					0	24.0	57.6	81.0	97.2	107.4	118.2	132	138	144			

Model Name	Stage	kW	HP	HEAD IN Mtrs.	50	47	41	37	33	30	27	23	20	17
					75	70	62	56	50	46	41	34	30	25
					100	94	82	74	67	61	55	46	40	33
					125	118	103	92	83	76	68	58	50	42
					150	141	124	111	100	92	82	69	60	50
					175	164	144	130	117	107	96	80	70	58
					200	188	165	148	133	122	109	92	80	67
					250	235	206	185	167	152	137	115	100	83
					300	282	247	222	200	183	164	138	120	100

Dimensions & Weights

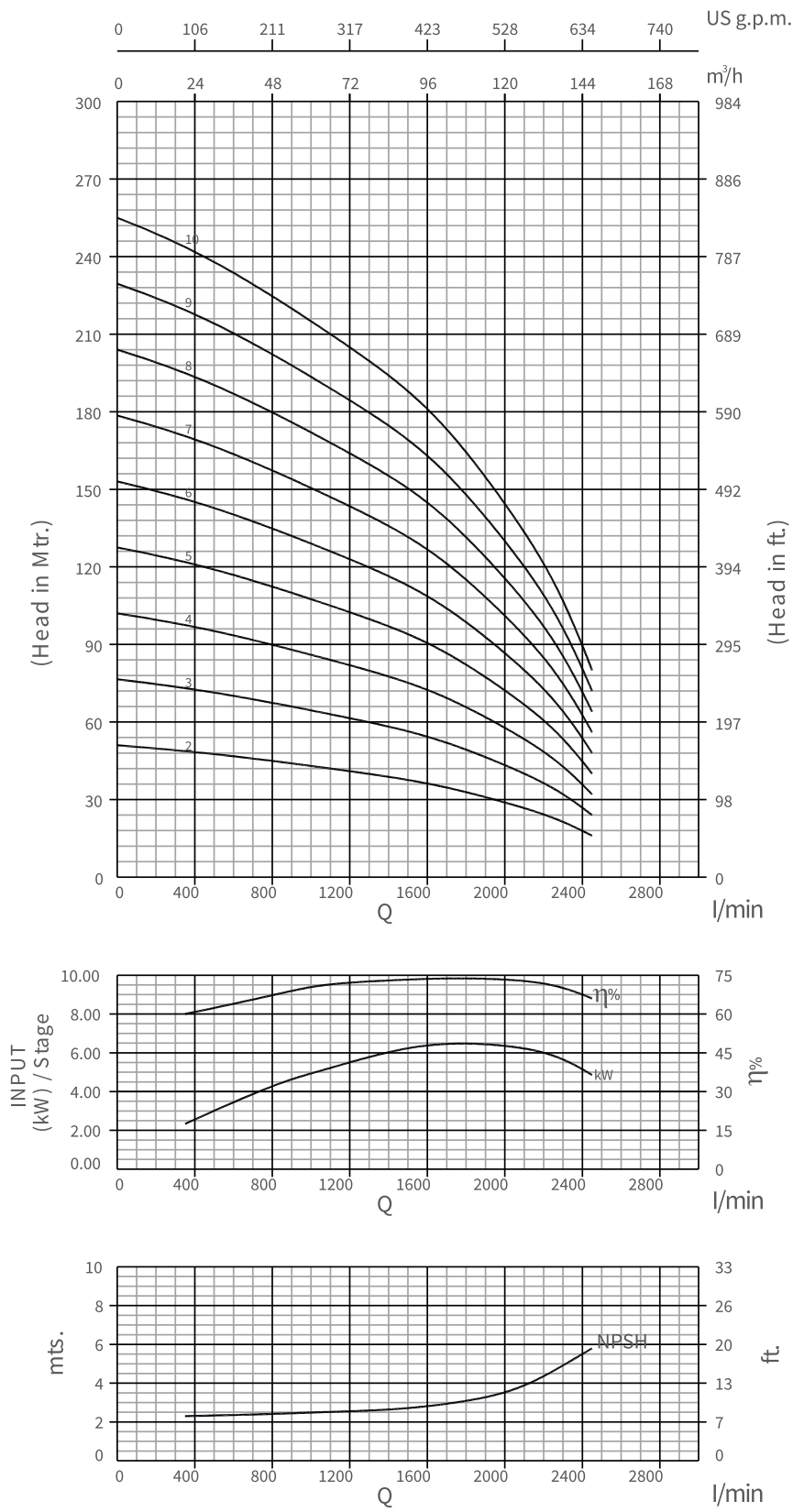


Model name	Specification			
	D	L	Weight (kg)	Weight (incl.pkg)[kg]
8RPM 810A-02	203	793	51.5	59.5
8RPM 810A-03	203	916	63.0	71.0
8RPM 810A-04	203	1046	74.0	82.0
8RPM 810A-05	203	1176	85.0	93.0
8RPM 810A-06	203	1306	96.5	104.5
8RPM 810A-07	203	1436	108.0	116.0
8RPM 810A-08	203	1566	119.5	127.5
8RPM 810A-10	203	1826	142.5	150.5
8RPM 810A-12	203	2086	165.5	173.5

*D:With Cable Guard
*G:Available Outlet Size 3" & 4"

Performance Curves

8RPM 1000, 50Hz
ISO 9906 Annexure A



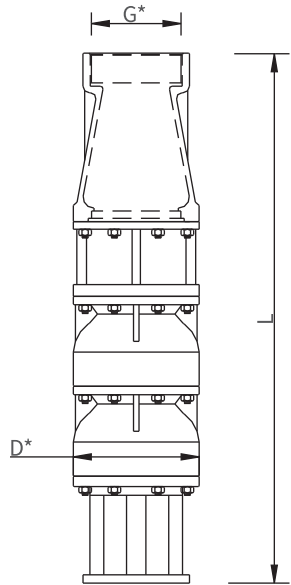
Performance Chart

8RPM 1000, 50Hz
ISO 9906 Annexure A

Model Name	Three Phase	Stage	Rating		l/min m ³ /h	Discharge									
			kW	HP		0	350	800	1000	1400	1700	2050	2300	2450	

Model Name	Stage	kW	HP	HEAD IN Mtrs.	51	49	45	43	39	35	28	22	16	
					76	74	68	64	58	52	42	33	24	
8RPM 1000-02	2	15.00	20.00		102	98	90	86	78	70	56	44	32	
8RPM 1000-03	3	22.00	30.00		128	122	112	108	98	88	70	55	40	
8RPM 1000-04	4	30.00	40.00		153	147	135	129	117	105	84	66	48	
8RPM 1000-05	5	37.00	50.00		178	172	158	150	136	122	98	77	56	
8RPM 1000-06	6	45.00	60.00		204	196	180	172	156	140	112	88	64	
8RPM 1000-07	7	52.00	70.00		230	220	202	194	176	158	126	99	72	
8RPM 1000-08	8	60.00	80.00		255	245	225	215	195	175	140	110	80	
8RPM 1000-09	9	67.00	90.00											
8RPM 1000-10	10	75.00	100.0											

Dimensions & Weights

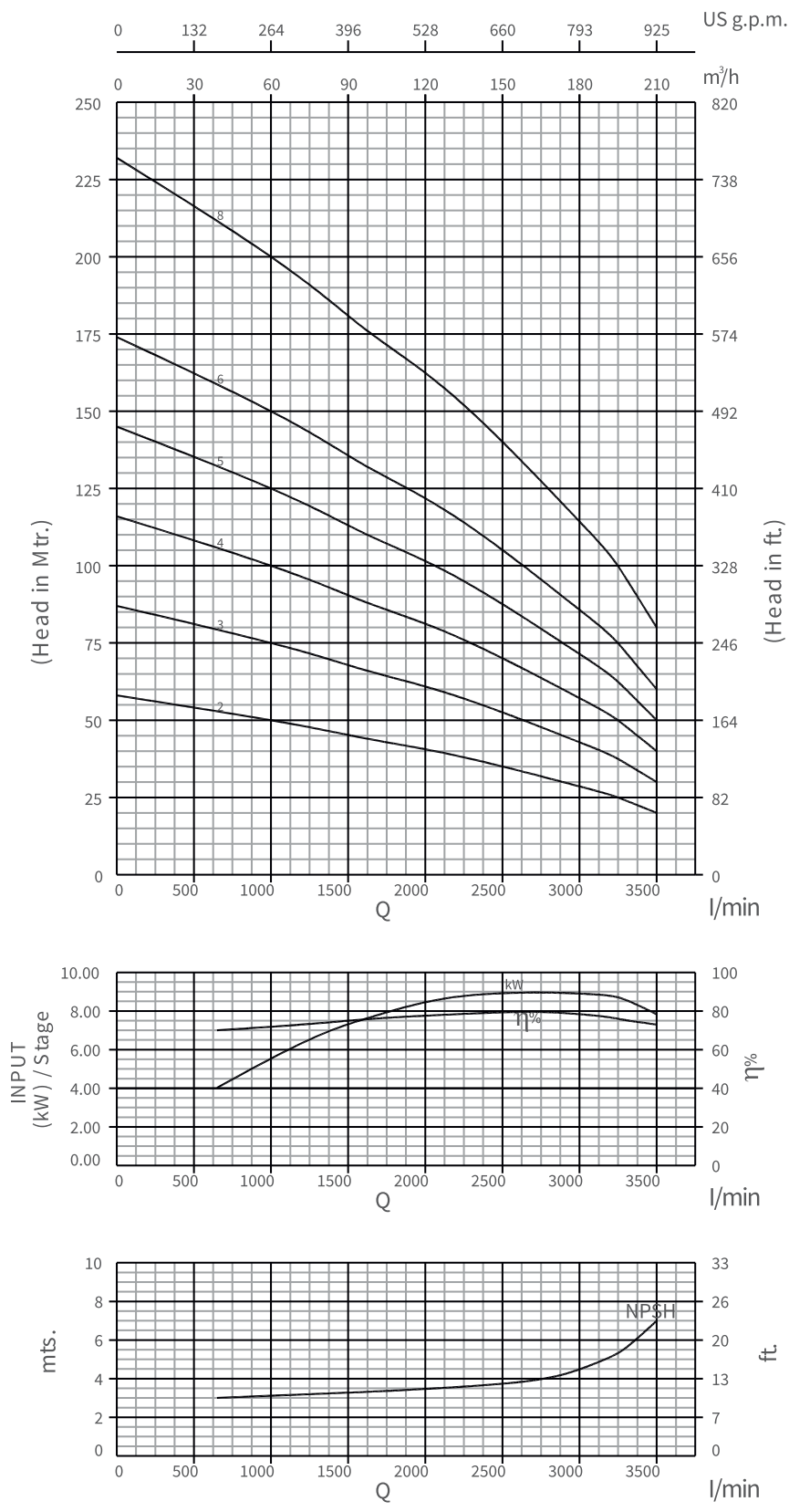


Model name	Specification			
	D	L	Weight (kg)	Weight (incl.pkg)[kg]
8RPM 1000A-02	203	793	51.5	59.5
8RPM 1000A-03	203	916	63.0	71.0
8RPM 1000A-04	203	1046	74.0	82.0
8RPM 1000A-05	203	1176	85.0	93.0
8RPM 1000A-06	203	1306	96.5	104.5
8RPM 1000A-07	203	1436	108.0	116.0
8RPM 1000A-08	203	1566	119.5	127.5
8RPM 1000A-09	203	1696	131.0	139.0
8RPM 1000A-10	203	1826	142.5	150.5

*D:With Cable Guard
*G:Available Outlet Size 3" & 4"

Performance Curves

8RPM 1250, 50Hz
ISO 9906 Annexure A



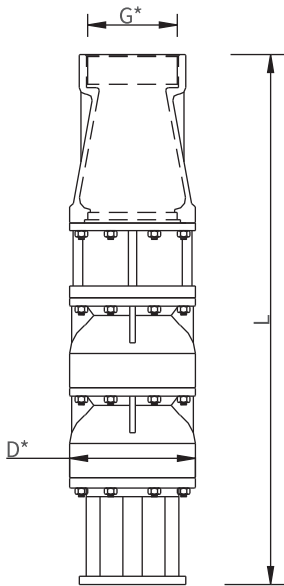
Performance Chart

8RPM 1250, 50Hz
ISO 9906 Annexure A

Model Name		Rating		Discharge												
Three Phase	Stage	kW	HP	l/min	0	650	1250	1600	2100	2650	2920	3200	3300	3500		
				m³/h	0	39	75	96	126	159	175.2	192	198	210		

8RPM 1250-02	2	18.50	25.00	HEAD IN Mtrs.	58	53	48	44	40	33	30	26	24	20
					87	80	72	66	60	50	44	39	36	30
					116	106	96	88	80	66	59	52	48	40
					145	132	120	110	100	83	74	65	60	50
					174	159	144	132	120	100	89	78	72	60
					232	212	192	176	160	133	118	104	96	80

Dimensions & Weights



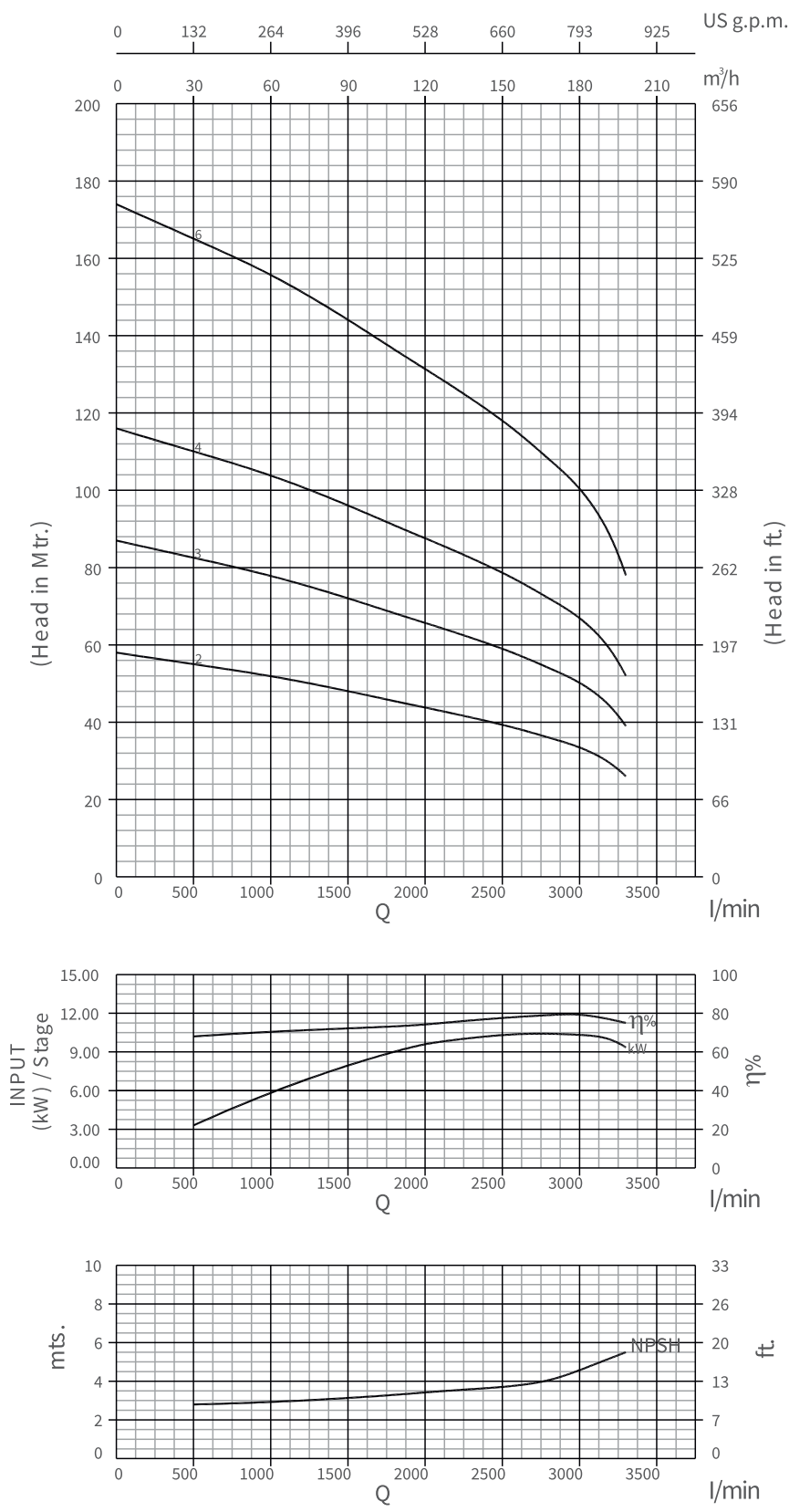
Model name	Specification			
	D	L	Weight (kg)	Weight (incl.pkg)(kg)
8RPM 1250-02	207	812	56.5	64.5
8RPM 1250-03	207	952	71.5	79.5
8RPM 1250-04	207	1092	86.5	94.5
8RPM 1250-05	207	1232	86.5	94.5
8RPM 1250-06	207	1372	116.5	124.5
8RPM 1250-08	207	1652	146.5	154.5

*D:With Cable Guard
*G:Available Outlet Size 3" & 4"

Performance Curves

8RPM 1500, 50Hz

ISO 9906 Annexure A



Performance Chart

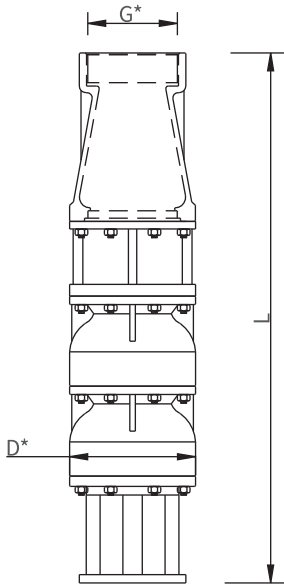
8RPM 1500, 50Hz

ISO 9906 Annexure A

Model Name		Rating			Discharge										
Three Phase	Stage	kW	HP	l/min	0	500	1050	1850	2100	2550	2800	2980	3200	3300	
				m ³ /h	0	30	63	111	126	153	168	178.8	192	198	

8RPM 1500-02	2	22.00	30.00	HEAD IN Mtrs.	58	55	52	45	43	39	36	34	30	26
					87	82	78	68	64	58	54	51	45	39
					116	110	104	90	86	78	72	68	60	52
					174	165	156	135	129	117	108	102	90	78

Dimensions & Weights



Model name	Specification			Weight (incl.pkg.) [kg]
	D	L	Weight (kg)	
8RPM 1500-02	207	812	56.5	64.5
8RPM 1500-03	207	952	71.5	79.5
8RPM 1500-04	270	1092	86.5	94.5
8RPM 1500-06	207	1372	116.5	124.5

*D:With Cable Guard
*G:Available Outlet Size 3" & 4"