

8RPR 30A, 8RPR 300, 8RPR 500 SERIES PUMP DESIGN

Product advantages and specification

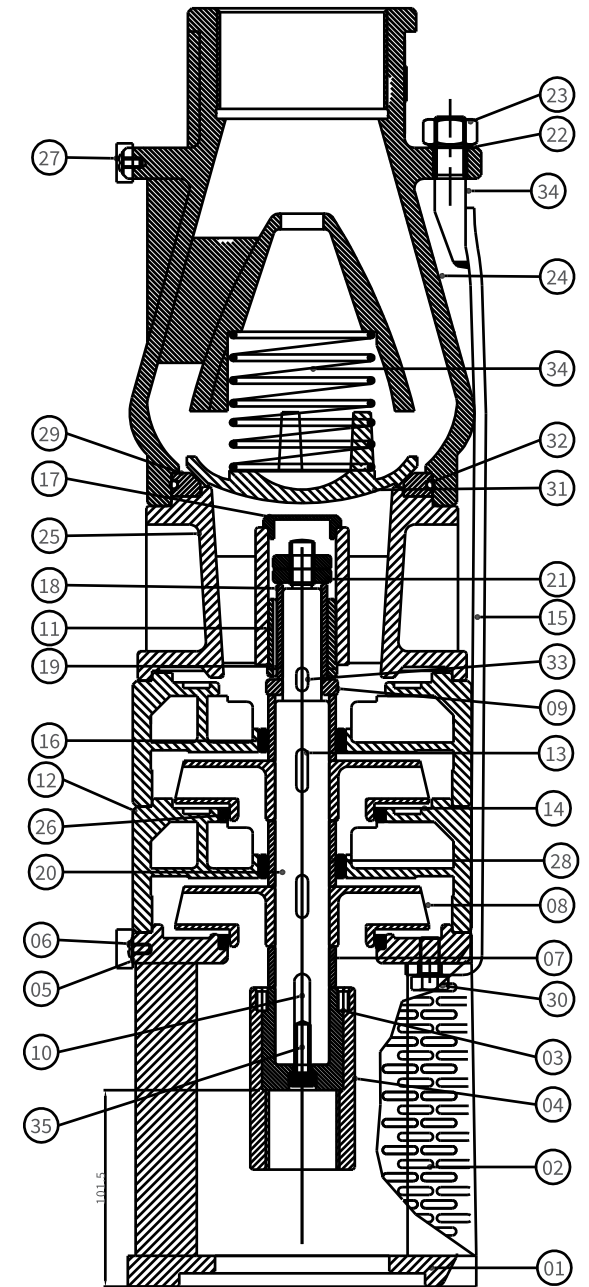
Raindrop 8" Submersible Pumps are results of many years of field experience, R&D, designing and excellence in engineering resulting into a product, which gives wide range of solution to most complicated and critical applications. These pumps are available in radial flow designs suitable to wide range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

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 radial flow pumps 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 of Stainless Steel.
5. Bearing bush for shaft is made of anti friction rubber to withstand wear resistance.
6. Non return valve is of Cast Iron.
7. Cable guard and strainer are of Stainless Steel.
8. Pump motor coupling is according to NEMA standard.
9. Minimum of water on aspiration 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 : 24 mtr to 590 mtr
 Flow rate : 75 lpm to 1000 lpm
 Immersion : 1 meter minimum
13. Minimum level of sand content: 50 gm /m³
14. Application: These pumps are for domestic, agriculture & industrial usage.

Material Specification

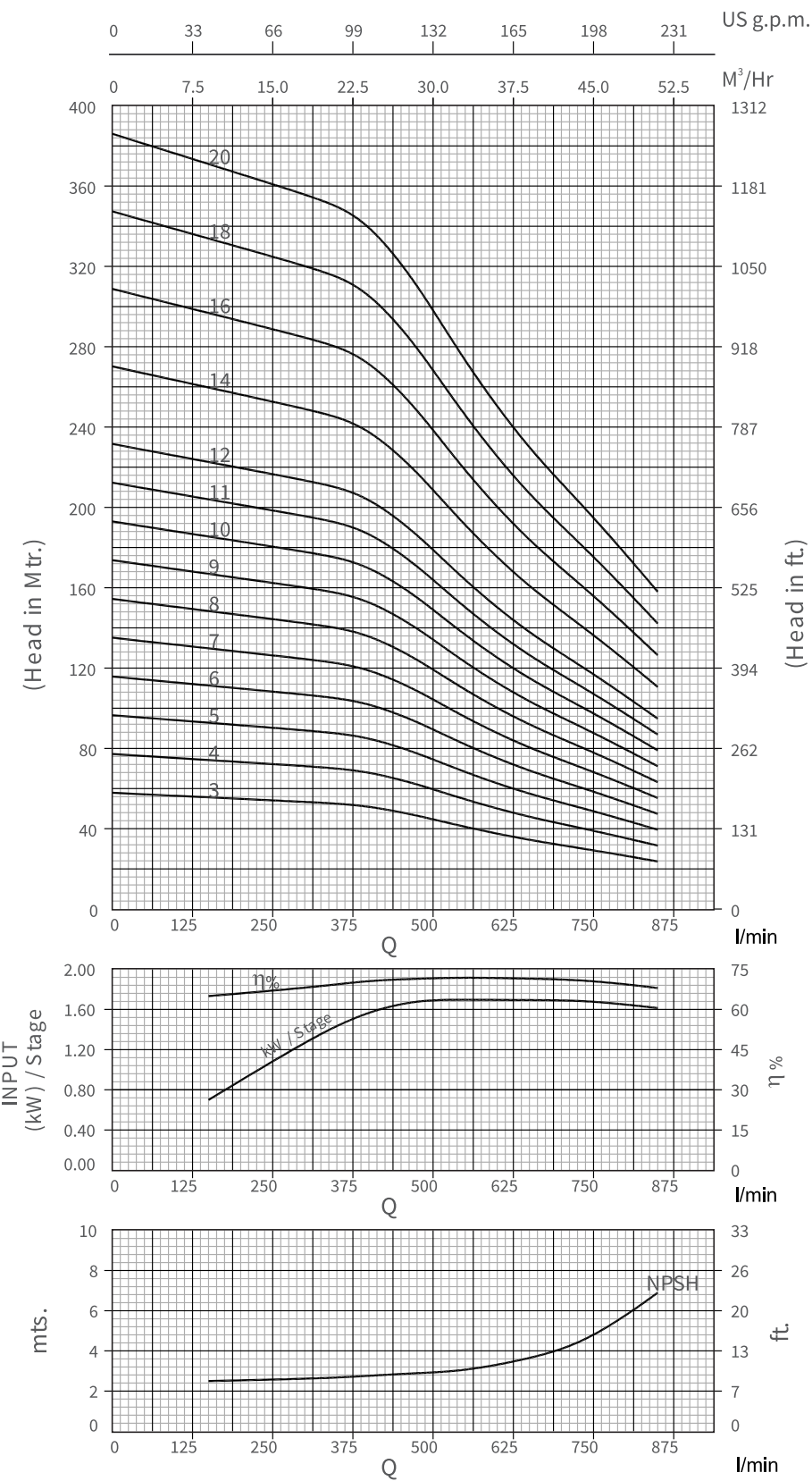
NO	PART NAME	MATERIAL	QTY
1	SUCTION	C.I (F.G200)	01
2	STRAINER	S.S.202	01
3	GRUB SCREW	S.S.304	01
4	COUPLING (EXPORT)	S.S.304	01
5	SCREW (CABLE GUARD,STRAINER)	S.S.304	10
6	WASHER (CABLE GUARD,STRAINER)	S.S.304	10
7	DISTANCE SLEEVE	S.S.410	01
8	IMPELLER	S.S.410	01/ST
9	THRUST PLATE	S.S.410	01
10	KEY (USE FOR COUPLING SIDE)	S.S.410	01
11	C.T. BEARING BUSH	L.T.B. 4 (2% NI.)	01
12	PAPER GASKET	PAPER	REQ.
13	KEY (USE FOR IMPELLER)	S.S.410	REQ.
14	BOWL	C.I (F.G 200)	01/ST
15	PUMP PATTI	S.S.304	04
16	METAL RUBBER BUSH	M.S/ N.B.R	01/ST
17	D.O.L CAP	P.V.C	01
18	TOP SLEEVE	S.S.410	01
19	N.R.V CONE SPRING	SPRING STEEL	01
20	PUMP SHAFT	S.S.410	01
21	SHAFT LOCK NUT	S.S.304	01
22	NUT	S.S.304	04
23	WASHER (PUMP PATTI)	S.S.304	04
24	N.R.V	C.I (F.G 200)	01
25	D.O.L	C.I (F.G 200)	01
26	BOWL NECKRING	M.S/N.B.R	01/ST
27	CABLE CLIP	S.S.202	REQ.
28	BOWL SLEEVE	S.S.410	01/ST
29	N.R.V NECKRING	C.I (F.G 200)	01
30	HEX BOLT (FOR PUMP PATTI)	S.S.304	04
31	N.R.V CONE	C.I (F.G 200)	01
32	N.R.V NECKRING O-RING	N.B.R	01
33	KEY (USE FOR D.O.L)	S.S.410	01
34	PUMP PATTI STUD	S.S.304	04
35	ALLEN BOLT (FOR COUPLING)	S.S.304	01



Performance Curves

8RPR 30A, 50Hz

ISO 9906 Annexure A



Performance Chart

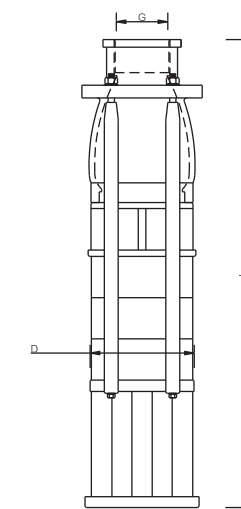
8RPR 30A, 50Hz

ISO 9906 Annexure A

Model Name	Three Phase	Stage	Rating		Discharge										
			kW	HP	l/min m ³ /h	0	150	300	370	420	480	550	650	750	850

Model Name	Stage	kW	HP	HEAD IN Mtrs.	58	56	53	52	50	46	41	34	29	24
8RPR 30A-03	3	5.50	7.50		58	56	53	52	50	46	41	34	29	24
8RPR 30A-04	4	7.50	10.00		77	74	71	70	67	62	54	46	39	32
8RPR 30A-05	5	9.30	12.50		96	93	89	87	84	77	68	57	49	40
8RPR 30A-06	6	11.00	15.00		116	111	107	104	100	93	82	68	59	47
8RPR 30A-07	7	13.00	17.50		135	130	125	122	117	108	95	80	69	55
8RPR 30A-08	8	15.00	20.00		154	148	142	139	134	124	109	91	78	63
8RPR 30A-09	9	18.50	25.00		174	167	160	157	150	139	122	103	88	71
8RPR 30A-10	10	18.50	25.00		193	186	178	174	167	154	136	114	98	79
8RPR 30A-11	11	22.00	30.00		212	204	196	191	184	170	150	125	108	87
8RPR 30A-12	12	22.00	30.00		232	223	214	209	200	185	163	137	118	95
8RPR 30A-14	14	26.00	35.00		270	260	249	244	234	216	190	160	137	111
8RPR 30A-16	16	30.00	40.00		309	297	285	278	267	247	218	182	157	126
8RPR 30A-18	18	37.00	50.00		347	334	320	313	301	278	245	205	176	142
8RPR 30A-20	20	37.00	50.00		386	371	356	348	334	309	272	228	196	158

Dimensions & Weights

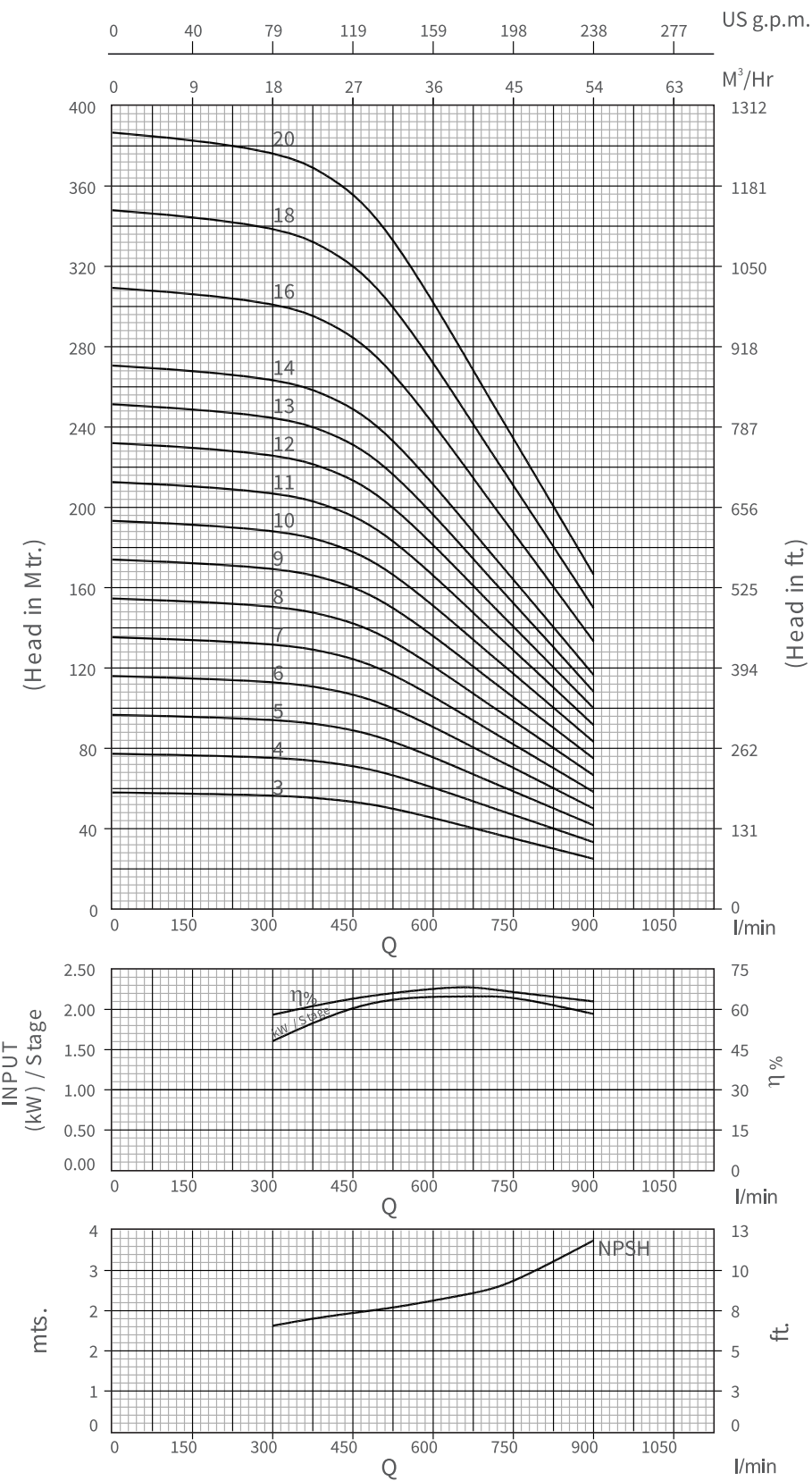


Model name	Specification			
	STAGE	D	L	G
8RPR 30A-03	03	188	725	75
8RPR 30A-04	04	188	790	75
8RPR 30A-05	05	188	855	75
8RPR 30A-06	06	188	920	75
8RPR 30A-07	07	188	985	75
8RPR 30A-08	08	188	1050	75
8RPR 30A-09	09	188	1115	75
8RPR 30A-10	10	188	1180	75
8RPR 30A-11	11	188	1245	75
8RPR 30A-12	12	188	1310	75
8RPR 30A-14	14	188	1440	75
8RPR 30A-16	16	188	1570	75
8RPR 30A-18	18	188	1700	75
8RPR 30A-20	20	188	1830	75

Performance Curves

8RPR 300, 50Hz

ISO 9906 Annexure A



Performance Chart

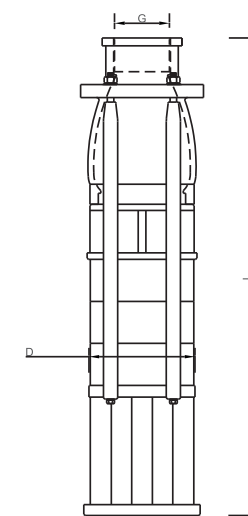
8RPR 300, 50Hz

ISO 9906 Annexure A

Model Name	Stage	Rating		l/min m ³ /h	Discharge								
		kW	HP		0	300	400	500	650	700	760	900	
Three Phase				0	0	18.0	24.0	30.0	39.0	42.0	45.6	54.0	

Model Name	Stage	Rating kW	Rating HP	l/min	HEAD IN Mtrs.							
					0	300	400	500	650	700	760	900
8RPR 300-03	3	7.50	10.00	58	57	55	52	42	38	34	25	
8RPR 300-04	4	9.30	12.50	77	76	73	69	56	51	46	33	
8RPR 300-05	5	11.00	15.00	97	95	92	87	70	64	58	42	
8RPR 300-06	6	13.00	17.50	116	114	110	104	84	77	69	50	
8RPR 300-07	7	15.00	20.00	135	133	128	121	98	90	80	58	
8RPR 300-08	8	18.50	25.00	155	152	147	139	112	103	92	67	
8RPR 300-09	9	22.00	30.00	174	171	165	156	126	115	104	75	
8RPR 300-10	10	22.00	30.00	193	190	183	173	140	128	115	83	
8RPR 300-11	11	26.00	35.00	213	209	202	191	154	141	126	92	
8RPR 300-12	12	26.00	35.00	232	228	220	208	168	154	138	100	
8RPR 300-13	13	30.00	40.00	251	247	238	225	182	167	150	108	
8RPR 300-14	14	33.00	45.00	271	266	257	243	196	180	161	117	
8RPR 300-16	16	37.00	50.00	309	304	293	277	224	205	184	133	
8RPR 300-18	18	45.00	60.00	348	342	330	312	252	231	207	150	
8RPR 300-20	20	45.00	60.00	387	380	367	347	280	257	230	167	

Dimensions & Weights

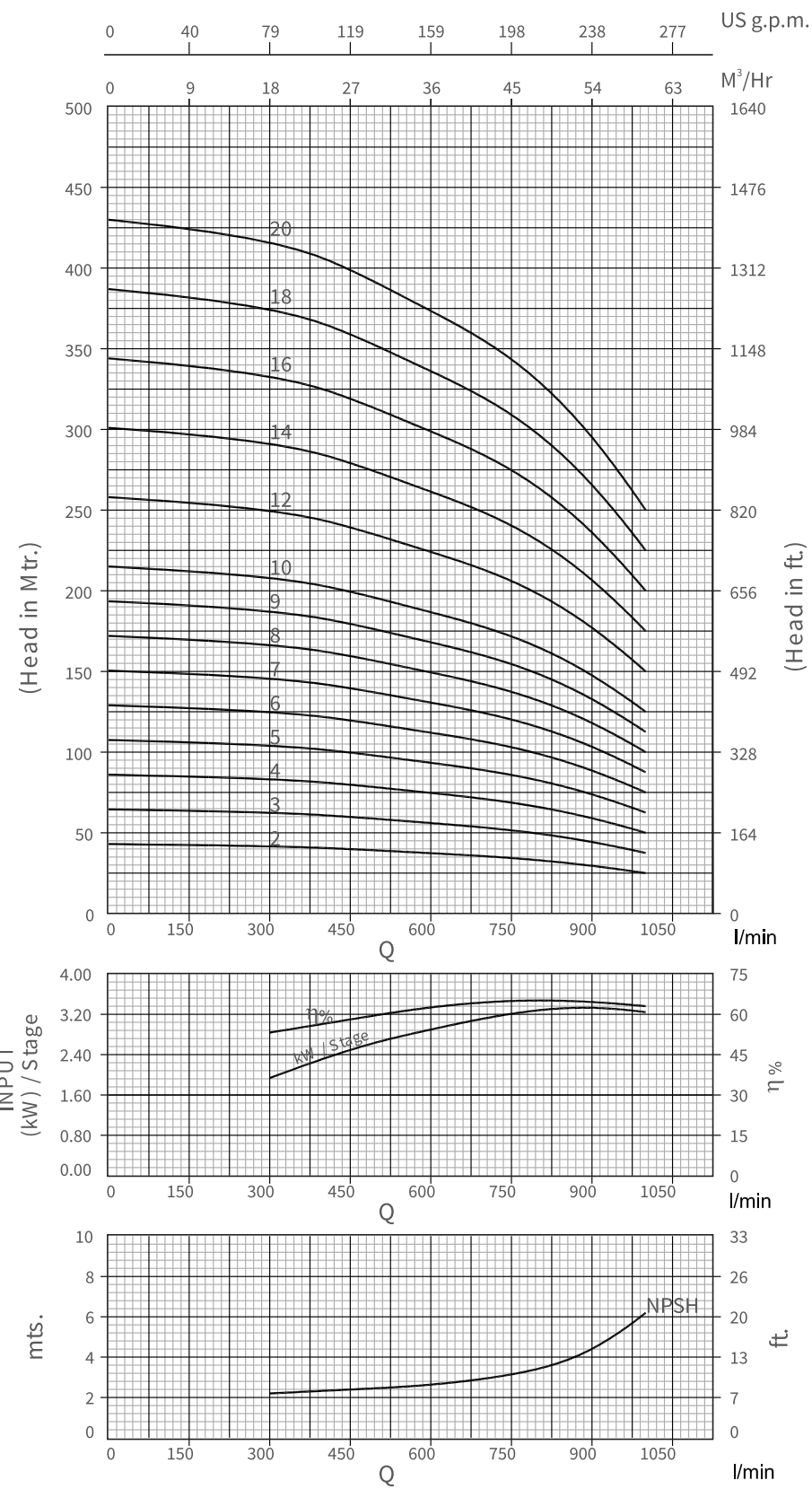


Model name	Specification			
	STAGE	D	L	G
8RPR 300-03	03	188	725	75
8RPR 300-04	04	188	790	75
8RPR 300-05	05	188	855	75
8RPR 300-06	06	188	920	75
8RPR 300-07	07	188	985	75
8RPR 300-08	08	188	1050	75
8RPR 300-09	09	188	1115	75
8RPR 300-10	10	188	1180	75
8RPR 300-11	11	188	1245	75
8RPR 300-12	12	188	1310	75
8RPR 300-13	13	188	1375	75
8RPR 300-14	14	188	1440	75
8RPR 300-16	16	188	1570	75
8RPR 300-18	18	188	1700	75
8RPR 300-20	20	188	1830	75

Performance Curves

8RPR 500, 50Hz

ISO 9906 Annexure A



Performance Chart

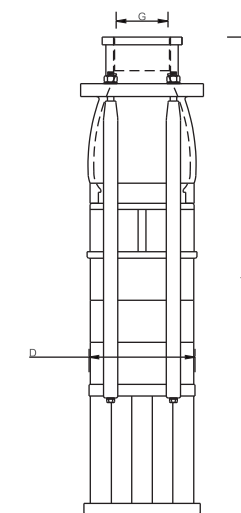
8RPR 500, 50Hz

ISO 9906 Annexure A

Model Name	Three Phase	Stage	Rating		Discharge						
			kW	HP	l/min m³/h	0	300	450	560	740	900

8RPR 500-02	2	7.50	10.00	43	42	40	38	35	30	25
8RPR 500-03	3	11.00	15.00	64	63	60	57	52	45	38
8RPR 500-04	4	15.00	20.00	86	84	80	76	70	60	50
8RPR 500-05	5	18.50	25.00	108	105	100	95	88	75	62
8RPR 500-06	6	22.00	30.00	129	126	120	114	105	90	75
8RPR 500-07	7	26.00	35.00	150	147	140	133	122	105	88
8RPR 500-08	8	30.00	40.00	172	168	160	152	140	120	100
8RPR 500-09	9	33.00	45.00	194	189	180	171	158	135	112
8RPR 500-10	10	37.00	50.00	215	210	200	190	175	150	125
8RPR 500-12	12	45.00	60.00	258	252	240	228	210	180	150
8RPR 500-14	14	52.00	70.00	301	294	280	266	245	210	175
8RPR 500-16	16	60.00	80.00	344	336	320	304	280	240	200
8RPR 500-18	18	67.00	90.00	387	378	360	342	315	270	225
8RPR 500-20	20	75.00	100.0	430	420	400	380	350	300	250

Dimensions & Weights



Model name	Specification			
	Stage	D	L	G
8RPR 500-02	02	185	673	75
8RPR 500-03	03	185	738	75
8RPR 500-04	04	185	803	75
8RPR 500-05	05	185	858	75
8RPR 500-06	06	185	933	75
8RPR 500-07	07	185	998	75
8RPR 500-08	08	185	1063	75
8RPR 500-09	09	185	1128	75
8RPR 500-10	10	185	1193	75
8RPR 500-12	12	185	1323	75
8RPR 500-14	14	185	1453	75
8RPR 500-16	16	185	1583	75
8RPR 500-18	18	185	1713	75
8RPR 500-20	20	185	1843	75

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