



GRUND PUMPS

PERFOMANCE CHART



एन एस आई सी
NSIC

ISO 9001 : 2008

The National Small Industries
Corporation Ltd



eiaCI

مركز الإمارات العالمي للاعتماد
Emirates International Accreditation Centre

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ISO 9001:2015

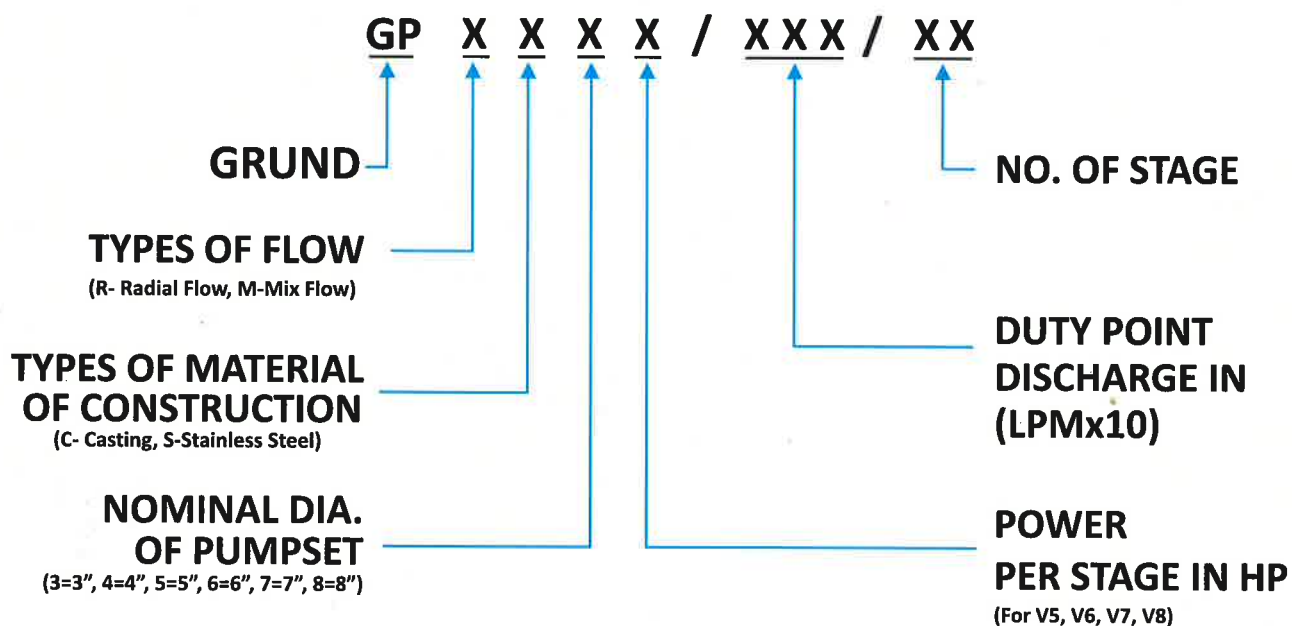
**I N D E X**

Sr. No.	Description	Page No.
(1)	Submersible Motors	3
(a)	Technical Specification and Performance Data	4
(b)	Submersible Motors 6" Rew. Outline Drawing	5
(c)	Constructions Features & Motor Range	5
(2)	Submersible Pumps	7
(a)	Material Specification	8
(b)	Performance Range	9
(c)	Pumps Range	10
(d)	Motors Range	10
(e)	Application	11
(f)	Type Key	11
(g)	Pumped Liquids	11
(h)	Operating Conditions	11
(i)	Curve Conditions	11
(j)	Features and Benefits	12
	Technical Data and Performance Curve	
(a)	Pump GP 8	13-14
(b)	Pump GP 9	15-17
(c)	Pump GP 12	18-20
(d)	Pump GP 17	21-24
(e)	Pump GP 30	24-26
(f)	Pump GP 46	27-29
(g)	Pump GP 60	30-32
(h)	Pump GP 77	33-35
(i)	Pump GP 95	36-38
(j)	Pump GP 125	39-41
(k)	Pump GP 160	42-44
(l)	V3 Submersible pumpset	45
(m)	V4 Submersible pumpset	47
(n)	V5 Submersible pumpset	51
(o)	V6 Submersible pumpset (50 FT)	53
(p)	V6 Submersible pumpset (Radial / Mix Flow)	57
(3)	Grund 4" (100 mm) Submersible Pump (Floating Type)	60
(4)	Grund Submersible uPVC Column Pipe	62
(5)	Grund 3 Core Submersible Flate Cable	64
(6)	Grund Stainless Steel SOLAR Submersible Pumps	66
(7)	Grund Horizontal Openwell Pumps	68
(8)	(a) Cable Selection Table	70
	(b) Capacitor & Relay selection Table	71
	(c) Conversion Table	71
	(d) Technical Detail's of Motor	72
	(e) Friction Loss Table	73
	(f) Discharge Rating Table	74



General Information

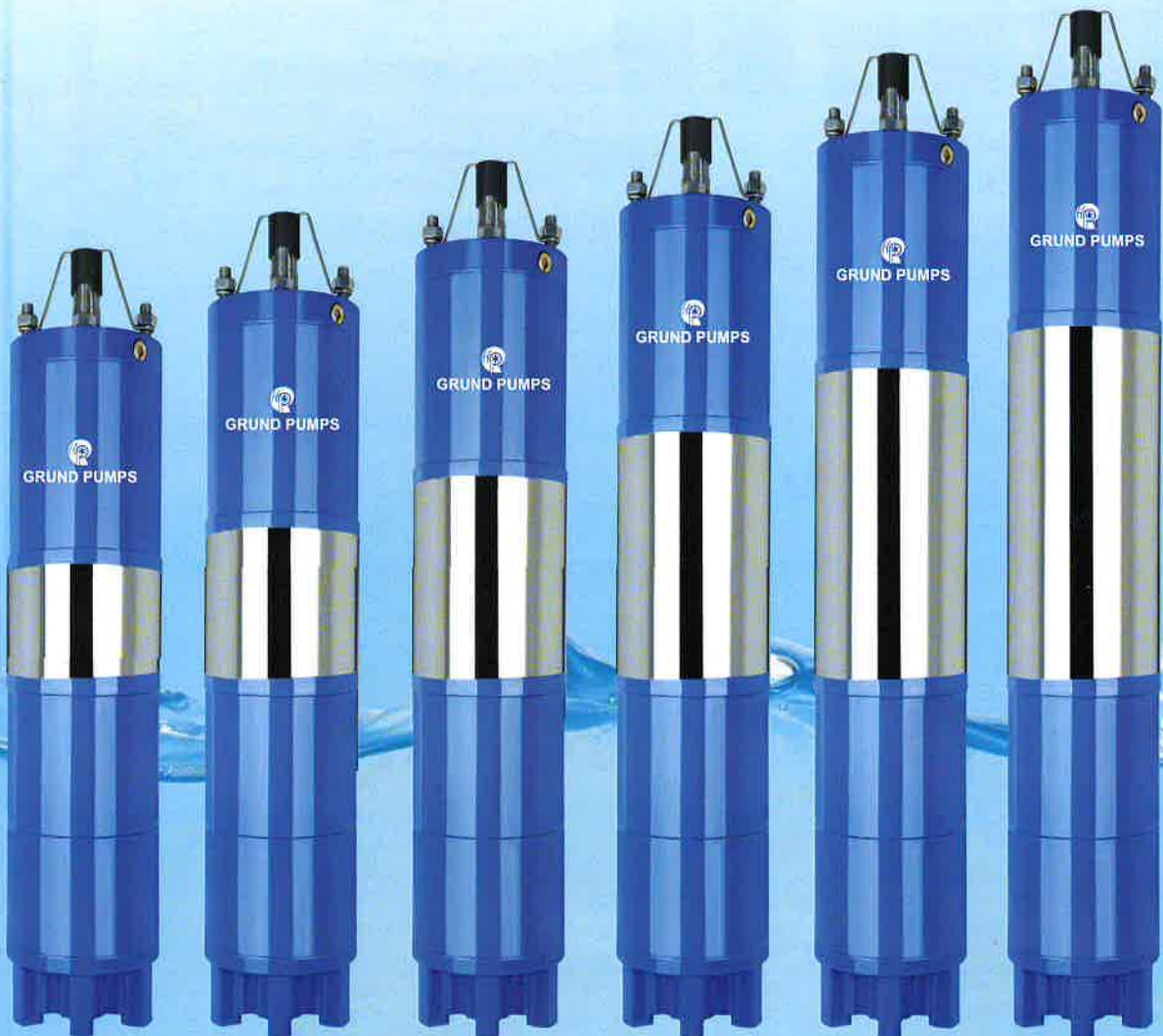
MODEL IDENTIFICATION CODE





GRUND PUMPS

6" (150 mm) REWINDABLE SUBMERSIBLE MOTOR



World - Class Water filled
Submersible Motors



Submersible Motors



SPECIFICATION

Specification for 150 mm (6") Submersible Motors

1. Voltage Range : 350 to 440 Volt
(For Three Phase)
2. Frequency : 50 Hz
3. H.P. : 5.5 HP to 50.0 HP
4. Max. Water Temperature : 35°C
5. Max. Number of Starts : 15 Nos. per hours
6. Axial Thrust Capacity : 25500 N
7. Power Cable : 3 Core PVC / Rubber Flat Cable
8. Protection Class : IP 68
9. Insulation Class : Y
10. Power Factor : 0.80 to 0.84
11. Type of Duty : S1

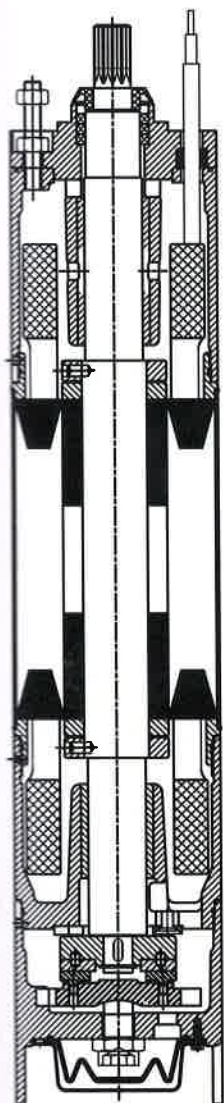
PERFORMANCE DATA

Electric Submersible Motors - 6" / 2 Pole / 50 Hz															
NOMINAL DIAMETER	MOTOR TYPE	RATED POWER		Voltage	MOTOR EFFICIENCY IN %			POWER FACTOR			STARTING		full load	full load	CONN.
		HP	KW		4/4	3/4	2/4	4/4	3/4	2/4	Cs Cn	Is In	Amps	RPM	
6"	VE6-7	7.5	5.5	380	79.5	80.0	77.0	75.0	70.0	63.0	2.0	5.0	14.0	2850	STAR
6"	VE6-10	10.0	7.5	380	79.5	80.5	77.0	79.0	74.0	63.0	1.9	5.0	19.0	2850	STAR
6"	VE6-12	12.5	9.3	380	81.5	82.0	78.0	79.0	74.0	63.0	2.1	5.0	23.0	2850	STAR
6"	VE6-15	15.0	11.0	380	82.0	82.5	79.0	78.5	74.0	63.0	2.3	5.0	27.0	2850	STAR
6"	VE6-20	17.5	13.0	380	82.5	83.0	79.5	81.0	75.0	64.0	2.0	5.0	31.0	2850	STAR
6"	VE6-20	20.0	15.0	380	83.0	83.5	80.0	83.2	76.5	65.0	2.0	5.0	35.0	2850	STAR
6"	VE6-25	25.0	18.5	380	83.0	83.5	80.0	82.5	76.5	65.0	1.9	4.8	41.0	2850	STAR
6"	VE6-30	30.0	22.0	380	84.0	84.5	80.0	82.5	77.0	67.0	1.9	5.9	48.5	2850	STAR
6"	VE6-35	35.0	26.0	380	84.0	85.0	80.0	83.0	78.0	67.0	1.9	5.7	56.0	2840	STAR
6"	VE6-40	40.0	30.0	380	84.5	85.5	81.0	84.0	78.0	67.0	1.9	5.6	64.0	2840	STAR
6"	VE6-50	50.0	37.0	380	85.0	86.0	82.0	84.0	78.5	67.5	2.0	5.6	79.0	2840	STAR
Cs = Starting Torque Cn = Nominal Couple Is = Starting current In = Nominal current															



Submersible Motors

CONSTRUCTION FEATURES



1. **Motor Stator:** Fully Stainless Steel with low loss Magnetic steel.
2. **Rotor Shaft :** Fully Stainless Steel, Shaft design size for extra strength and stiffness.
3. **Rotors :** Rotors are dynamically balanced for smooth and vibration free Operation and protected with Anticorrosive Rubber Paints.
4. **Thrust Bearing :** Mitchell with individual tilting pads provided for protection against wear and tear. Design of Bearings is suitable for higher Thrust capacity.
5. **Winding Wire:** Superior Polyester Insulated Double Coated to withstand high voltage surges.
6. Double Leap seal are protected by Sand Guards.
7. Motors are filled with clear cold water with additives for anti rust.
8. SS Fasteners are provided to prevent against corrosion.
9. Laminations are cold rolled M45 C4 Coating with Low watt losses
10. Graded Casting Parts Protected with Anti Corrosive Paint
11. All Rubber Parts made up of NBR

PRODUCT RANGE OF MOTORS

- 4" SINGLE PHASE (50 Hz/ 230 Volt)
Range - 0.5 H.P. to 5.5 H.P
- 4" THREE PHASE (50 Hz/ 380 Volt)
Range - 0.5 H.P. to 7.5 H.P.
- 6" SINGLE PHASE (50 Hz/ 230 Volt)
Range - 5.5 H.P. to 7.5 H.P.
- 6" THREE PHASE (50 Hz/ 380 Volt)
Range - 5.5 H.P. to 50.0 H.P.
- 8" THREE PHASE (50 Hz/ 380 Volt)
Range - 12.5 H.P. to 100.0 H.P.

OPTIONAL FEATURES

1. Power Cable with Rubber Insulation (H07 RN-F)
2. Mechanical Seal
3. Cast Iron Parts with CED Coated
4. Single Phase Motors (180 to 240 Volt) 5.5 HP to 10 HP
5. 60 Hz design
6. Special Low Voltage Design (300 to 380 Volt)

COMPONENTS



Stainsteel Rotor

Rotor are dynamically balanced for smooth and vibration free Operation and protected with Anticorrosive Paints.



Carbon Thrust Brg.

Mitchell with individual tilting pads provided for protection against wear and tear. Design of Bearings is suitable for higher Thrust capacity.



Wound Stator

Made up fully Stainless Steel with low loss Magnetic steel. and wound with PVC Winding Wire



Graded Casting Part

Graded Casting Parts Protected with Anti Corrosive Paint.



GRUND PUMPS



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STAINLESS STEEL SUBMERSIBLE PUMPS

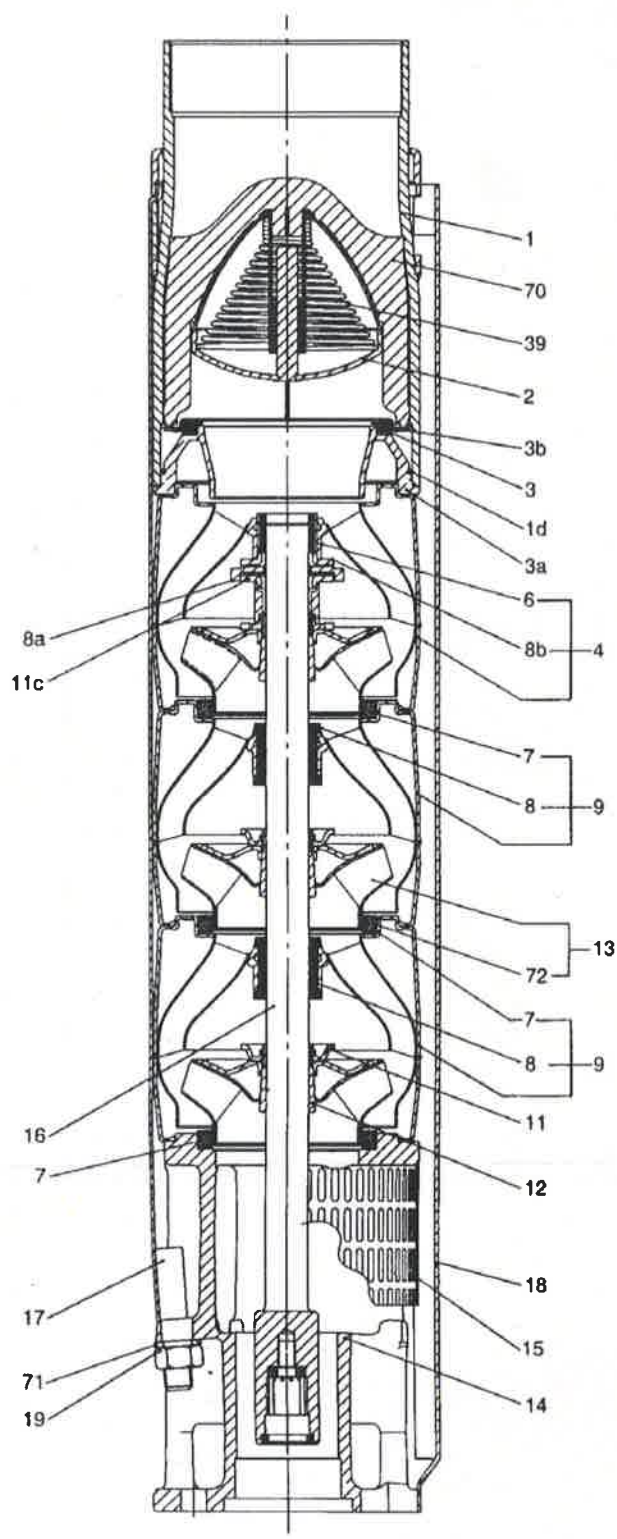


World - Class Water filled
Submersible Motors



MATERIAL SPECIFICATION

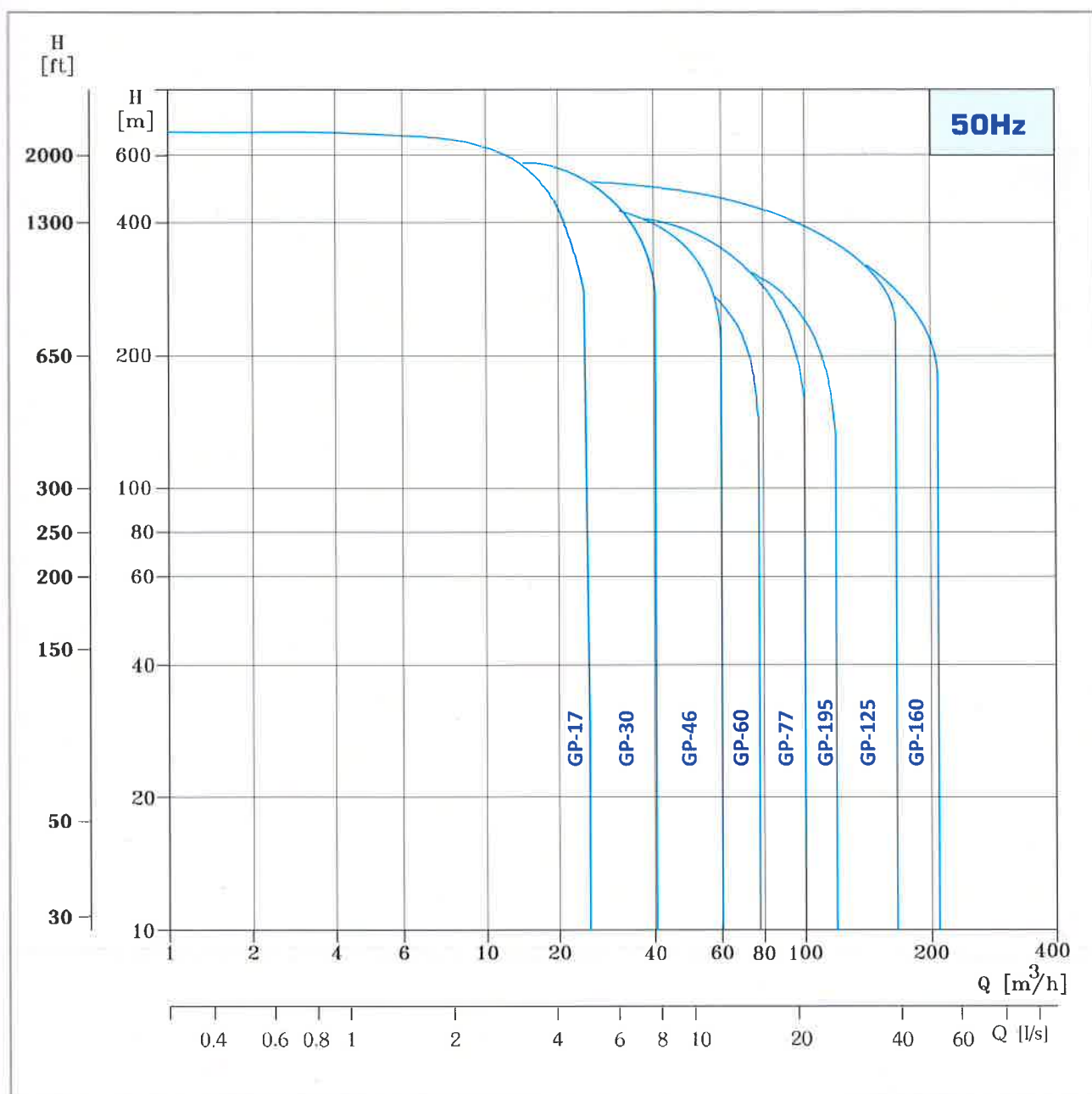
SUBMERSIBLE PUMP MODEL - GP 77



Pos.	COMPONENTS	MATERIAL	STANDARD	N-VERSION
1	VALVE CASING	STAINLESS STEEL	304	316
1d	O-RING	NBR		
2	VALVE CUP	STAINLESS STEEL	304	316
3	VALVE SEAT	STAINLESS STEEL	304	316
3a	LOWER VALVE SEAT RETAINER	STAINLESS STEEL	304	316
3b	UPPER VALVE SEAT RETAINER	STAINLESS STEEL	304	316
4	TOP CHAMBER	STAINLESS STEEL	304	316
6	UPPER BEARING	STAINLESS STEEL NBR	304	316
7	NECKING	NBR/PPS		
8	BEARING	NBR		
8a	WASHER FOR STOP RING	CABRON/GRAPHITE HY22 IN PTFE MASS		
8b	STOP RING	STAINLESS STEEL	316	316
9	CHAMBER	STAINLESS STEEL	304	316
11	SPLIT CONE NUT	STAINLESS STEEL	304	316
11c	NUT FOR STOP RING	STAINLESS STEEL	316	316
12	SPLIT CONE	STAINLESS STEEL	304	316
13	IMPELLER	STAINLESS STEEL	304	316
14	SUCTION INTERCONNECTOR	STAINLESS STEEL	304	316
15	STRAINER	STAINLESS STEEL	304	316
16	SHAFT COMPLETE	STAINLESS STEEL	431	316
17	STRAP	STAINLESS STEEL	304	316
18	CABLE GUARD	STAINLESS STEEL	304	316
19	NUT FOR STRAP	STAINLESS STEEL	304	316
39	SPRING FOR VALVE CUP	STAINLESS STEEL	304	316
70	VALVE GUIDE	STAINLESS STEEL	304	316
71	WASHER	STAINLESS STEEL	316	316
72	WEAR RING	STAINLESS STEEL	304	316



PERFORMANCE RANGE OF GP SERIES





SUBMERSIBLE PUMPS & MOTORS GP SERIES

Pump Range

Type	GP 8	GP 9	GP 12	GP 17	GP 30	GP 46	GP 60	GP 77	GP 95	GP 125	GP 160
Steel: AISI SS 304	+	+	+	+	+	+	+	+	+	+	+
Connection: Rp (Inches) BSP Thread	2.0"	2.0"	2.0"	2.5"	3.0"	4.0"	4.0"	5.0"	5.0"	6.0"	6.0"
NPT Thread	2.0"	3.0"	3.0"	3.0"	3.0"	4.0"	4.0"	5.0"	5.0"	6.0"	6.0"
Flange Connection								5.0"	5.0"	6.0"	6.0"

Motor Range

Motor Output (kW)	3.0	4.0	5.5	7.5	9.2	11	13	15	18.5	22	26	30	37	45	55	75	93	110
Three Phase	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rewindable Motors	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Steel: AISI 304 & Cast Iron	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Direct -on -Line starting is recommended up to 7.5 kW.

Soft starter or autotransformer is recommended above 7.5 kW.



SUBMERSIBLE PUMPS GP SERIES

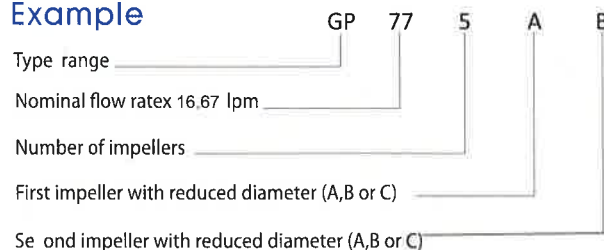
Applications :

The pumps are suitable for the following applications:

- raw water supply
- irrigation systems
- groundwater lowering
- pressure boosting
- industrial applications

Type Key

Example



Pumped Liquids

Clean, thin, non-aggressive liquids without solid particles or fibres. The max. sand content is 50 mg/lit.

Operating Conditions

Flow rate Q Maximum: 8 - 204 m³/h

Head H: max. 670m

Maximum Liquid Temperature

Motor	Installation		
	Flow Velocity Past Motor	Vertical	Horizontal
6" & 8"	0.15 m/s	40°C	40°C

Curve Conditions

- Curve tolerance according to ISO 9906, Annex A
- The performance curves show pump performance at actual speed cf. standard motor range.
- The speed of the motors is approximately :
 - 4" and 6" motors : n=2870 min⁻¹
 - 8" to 12" motors : n=2900 min⁻¹
- The measurements were made with airless water at a temperature of 20°C. The curves apply to a kinematic viscosity of 1mm²/s. When pumping liquids with density higher than that of water, motors with correspondingly higher outputs must be used.
- The bold curves indicate the recommended performance range.
- The performance curves are inclusive of possible losses such as non-return valve loss.

Table of Head Losses

GP 8, GP 9, GP 12, GP 17, GP 30, GP 46, GP 60, GP 77, GP 95, GP 125, GP 160 Curves

- Q/H : The curves are inclusive of valve and inlet losses at the actual speed.
- Operation without non-return valve (NRV) will increase the actual head at nominal performance by 0.5 - 1.0 m.
- NPSHR The curve is inclusive of suction case and shows required inlet pressure.
- Power Curve: It shows pump power input at the actual speed for each individual pump size.
- Efficiency Curve : Efficiency shows pump stage efficiency.





SUBMERSIBLE PUMPS GP SERIES

FEATURES AND BENEFITS

A Wide Pump Range

We offer submersible pumps with energy efficient duty point ranging from 10m³/hrs to 204m³/hrs. The pump range consists of many pump sizes and each pump size is available with an optional number of stages to match and duty point.

High Pump Efficiency

Often pump efficiency is a neglected factor compared to the price variations and are without importance of pump and motor efficiencies.

Example

When pumping 125m³/hrs with a head of 200m for a period of 10 years \$60,000 will be saved if pumps and motors having a 10% higher efficiency are chosen and the price is \$0.10 per kWh.

Bearings with Sand Channels

All bearings are water-Lubricated and have a squared shape enabling sand particles, if any, to leave the pump together with the pumped liquid.

Inlet Strainer

The inlet strainer prevents particles over a certain size from entering the pump.

Non-Return Valve (NRV)

All pumps are equipped with a reliable non-return valve in the valve casing preventing back flow in connection with pump stoppage.

Furthermore, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to a minimum.

The valve casing is designed for optimum hydraulic properties, to minimize the pressure loss across the valve and thus contributes to the high efficiency of the pump.

Stop Ring and Spacing Washer

The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up.

The stop ring, which is designed as a thrust bearing limits axial movements of the pump shaft.

Example: DK 30 and DK 46

The stationary part of the stop ring (A) is secured in the top bowl (Upper intermediate chamber).

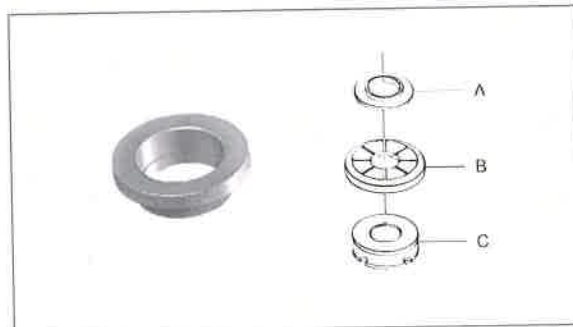
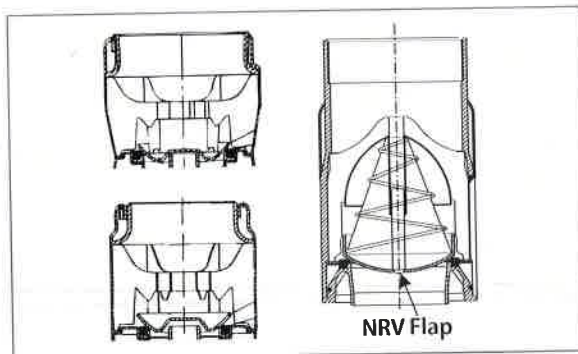
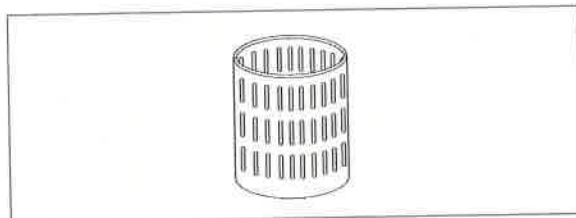
The rotating part (B) is fitted above the cullet split cone (C).

Application

We offer a complete range of pumps and motors which as a standard are made completely of stainless steel AISI-304. This provides for good wear resistance and a reduced risk of corrosion when pumping ordinary cold water with a minor content of chloride.

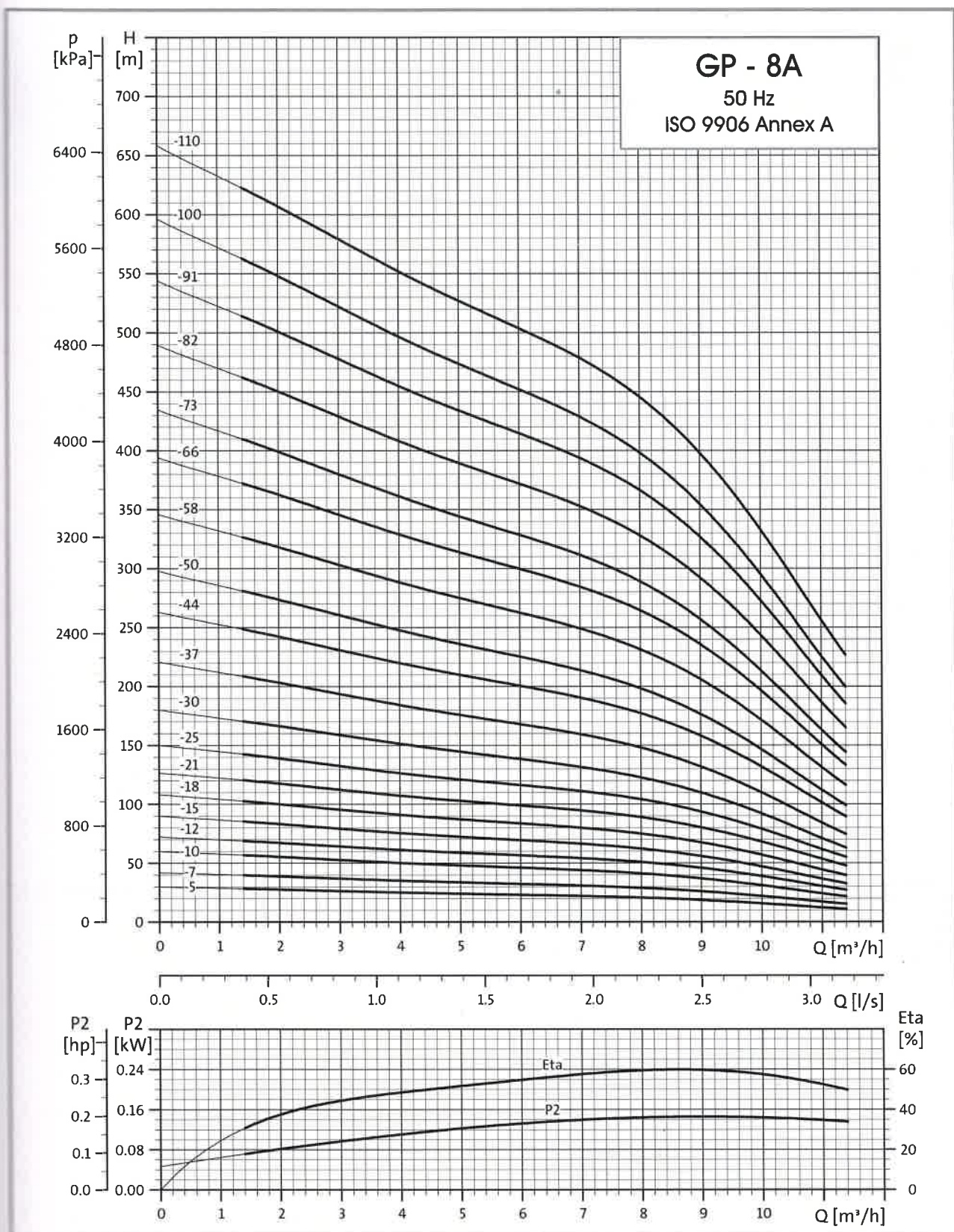
Low Installation Costs

Stainless steel means low weight facilitating the handling of pumps and resulting in low equipment costs and reduced installation and service time. In addition pumps will be as new after service due to the high wear resistance of stainless steel





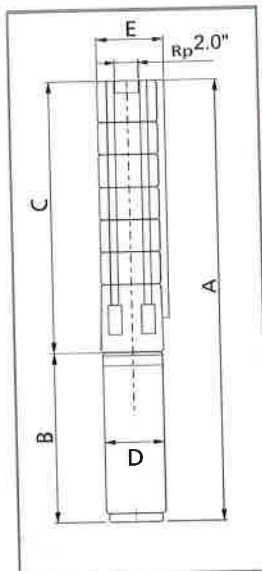
PERFORMANCE CURVE - GP 8A





PERFORMANCE CURVE - GP 8

Dimension, Weight & Performance Table



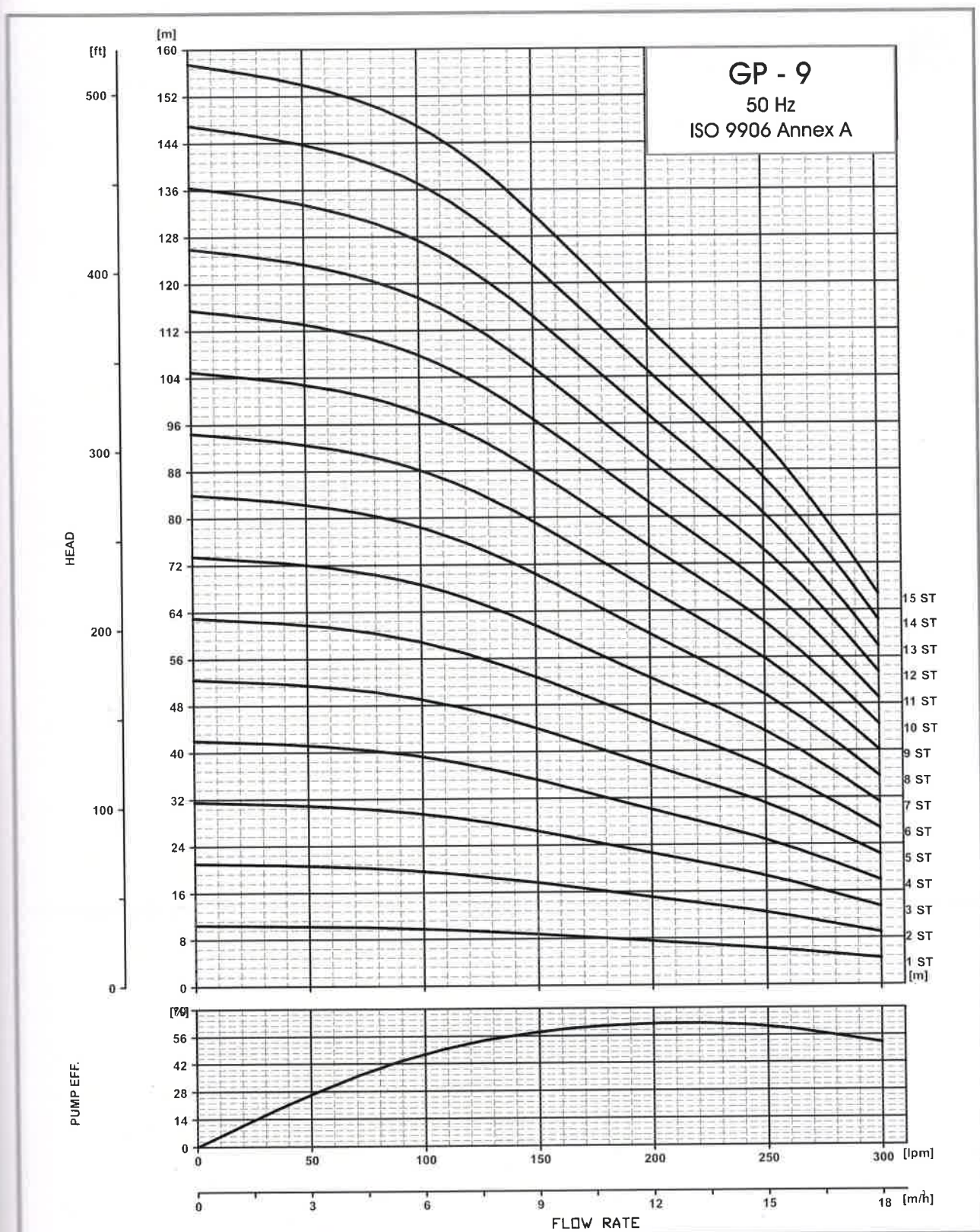
Model - Stage	n-2950 RPM	Discharges (Q)					Dimensions in (mm)				Pump
	m ³ / hrs	4	6	8	9	10	Rp 2" Thread Connection				Net Weight In Kgs
	Ltr / Min.	66.8	100.2	133.6	150	167					
	Motor kw / HP	Total Head in Meters					C	A	D*	E**	
GP 8 - 5	0.75 / 1.0	25	23	21	19	16	425	777	95	101	5
GP 8 - 7	1.1 / 1.5	35	32	29	26	22	509	891	95	101	6
GP 8 - 10	1.5 / 2.0	50	46	41	37	32	635	1057	95	101	7
GP 8 - 12	2.2 / 3.0	61	57	51	46	39	719	1199	95	101	8
GP 8 - 15	2.2 / 3.0	76	70	62	56	47	845	1325	95	101	10
GP 8 - 18	3.0 / 4.0	91	84	75	67	57	971	1518	95	101	11
GP 8 - 21	4.0 / 5.5	107	99	89	80	68	1097	1720	95	101	12
GP 8 - 25	4.0 / 5.5	126	116	104	94	79	1265	1888	95	101	14
GP 8 - 30	5.5 / 7.5	151	138	123	110	92	1475	2212	95	101	16
GP 8 - 37	5.5 / 7.5	184	168	148	132	110	1769	2506	95	101	19
GP 8 - 44	7.5 / 10.0	221	200	178	158	132	2063	2877	95	101	22
GP 8 - 50	7.5 / 10.0	252	228	203	180	151	2315	3129	95	101	25
GP 8 - 58	9.3 / 12.5	292	264	235	209	175	2726	3470	142	142	28
GP 8 - 66	11.0 / 15.0	332	300	267	238	199	3062	3836	142	142	31
GP 8 - 73	11.0 / 15.0	367	332	296	263	220	3356	4130	142	142	35
GP 8 - 82	13.0 / 17.5	412	373	332	295	247	3734	4558	142	142	39
GP 8 - 91	15.0 / 20.0	458	414	369	328	274	4112	4981	142	142	43
GP 8 - 100	15.0 / 20.0	503	455	405	360	301	4490	5359	142	142	46
GP 8 - 110	18.5 / 25.0	554	501	446	396	331	4910	5824	142	142	51

* Motor type / size may change as per requirement.

** Maximum diameter of pump inclusive of cable guard.



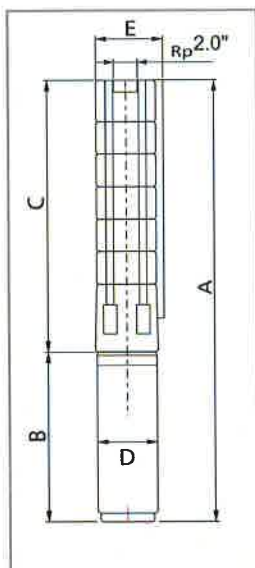
PERFORMANCE CURVE - GP 9





TECHNICAL DATA MODEL - GP 9

Dimension, Weight & Performance Table



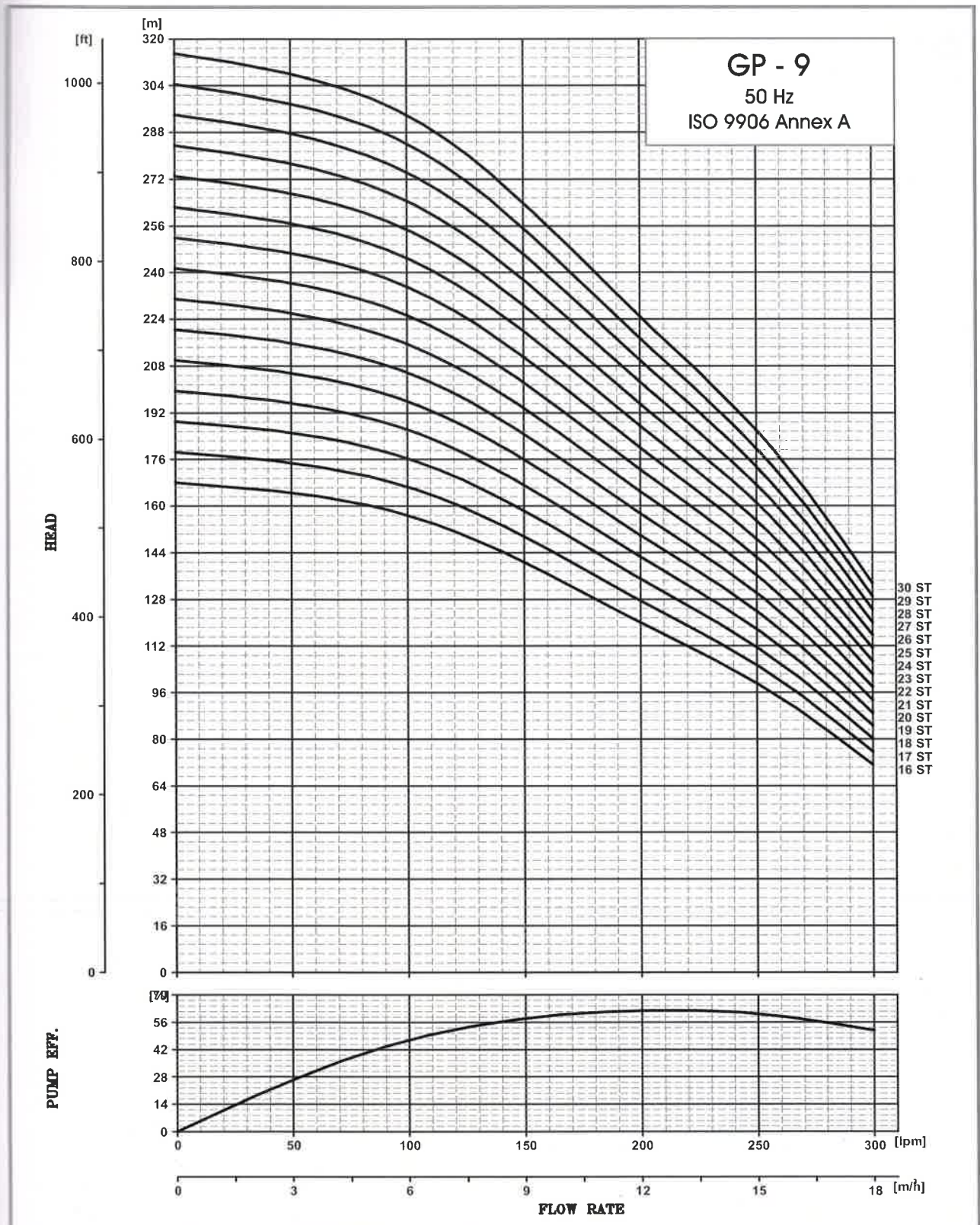
Model - Stage	n-2950 RPM	Discharges (Q)										Dimensions in (mm)				Pump
	m³ / hrs	0	4	6	8	10	12	14	16	18	Rp 2" Thread Connection				Net Weight In Kgs	
	Ltr / Min.	0	68	100	133	167	200	233	267	300						
	Motor kw / HP	Total Head in Meters										C	A	D*		E**
GP 9 - 1	0.55 / 0.75	12	12	12	10	8	7	6	5	4	318	670	95	131	8	
GP 9 - 2	1.1 / 1.5	22	22	22	20	17	14	13	10	8	378	760	95	131	10	
GP 9 - 3	1.5 / 2.0	32	32	32	30	28	21	19	15	12	439	800	95	131	11	
GP 9 - 4	2.2 / 3.0	39	39	39	38	36	28	25	22	16	499	952	95	131	12	
GP 9 - 5	2.2 / 3.0	49	49	49	46	42	35	32	26	20	560	1013	95	131	13	
GP 9 - 6	3.0 / 4.0	58	58	58	54	50	48	38	30	24	620	1112	95	131	15	
GP 9 - 7	3.0 / 4.0	69	69	69	66	58	55	44	35	28	681	1173	95	131	16	
GP 9 - 8	3.7 / 5.0	78	78	78	76	70	60	51	40	32	741	1313	95	131	17	
GP 9 - 9	4.0 / 5.5	84	84	84	83	78	68	57	46	36	802	1374	95	131	18	
GP 9 - 10	4.0 / 5.5	98	98	98	94	86	76	63	51	40	862	1434	95	131	19	
GP 9 - 11	5.5 / 7.5	105	105	105	102	96	84	70	56	44	940	1462	145	145	21	
GP 9 - 12	5.5 / 7.5	118	118	118	114	102	90	76	61	48	1000	1522	145	145	22	
GP 9 - 13	5.5 / 7.5	127	127	127	120	110	98	82	66	52	1061	1614	145	145	23	
GP 9 - 14	7.5 / 10	137	137	137	134	120	106	89	71	56	1121	1690	145	145	24	
GP 9 - 15	7.5 / 10	147	147	147	144	126	115	95	76	60	1182	1751	145	145	26	
GP 9 - 16	7.5 / 10	156	156	157	151	134	121	101	81	64	1242	1811	145	145	27	
GP 9 - 17	7.5 / 10	167	167	167	158	140	129	108	86	68	1303	1902	145	145	28	
GP 9 - 18	7.5 / 10	177	177	177	166	148	136	114	90	72	1363	1962	145	145	29	
GP 9 - 19	9.3 / 12.5	186	186	186	172	158	144	120	95	76	1424	2029	145	145	31	
GP 9 - 20	9.3 / 12.5	196	196	196	180	166	151	127	100	80	1484	2083	145	145	32	
GP 9 - 21	9.3 / 12.5	206	206	206	195	178	159	133	105	84	1545	2175	145	145	33	
GP 9 - 22	9.3 / 12.5	216	216	216	202	185	167	139	110	88	1605	2235	145	145	34	
GP 9 - 23	11 / 15	225	225	224	210	190	174	146	121	92	1666	2296	145	145	35	
GP 9 - 24	11 / 15	234	234	234	220	200	182	152	127	96	1726	2356	145	145	37	
GP 9 - 25	11 / 15	245	245	244	230	208	189	158	132	100	1787	2448	145	145	38	
GP 9 - 26	11 / 15	255	255	255	239	216	197	165	138	104	1847	2506	145	145	39	
GP 9 - 27	13 / 17.5	263	263	263	246	225	204	171	142	108	1908	2567	145	145	40	
GP 9 - 28	13 / 17.5	273	273	273	256	233	212	177	148	112	1968	2627	145	145	42	
GP 9 - 29	13 / 17.5	285	285	285	265	242	220	184	152	116	2029	2722	145	145	43	
GP 9 - 30	13 / 17.5	295	295	295	273	250	2247	190	159	120	2089	2782	145	145	44	
GP 9 - 31	13 / 17.5	306	306	305	282	258	235	196	165	124	2150	2843	145	145	45	
GP 9 - 32	15 / 20	315	315	315	290	267	242	203	170	128	2210	2903	145	145	47	
GP 9 - 33	15 / 20	325	325	325	300	276	250	209	175	132	2271	2964	145	145	48	
GP 9 - 34	15 / 20	335	335	335	310	284	257	215	180	136	2331	3080	145	145	49	
GP 9 - 35	15 / 20	343	343	343	320	292	265	222	186	140	2392	3141	145	145	50	
GP 9 - 36	15 / 20	353	353	352	330	300	273	228	192	144	2452	3201	145	145	51	
GP 9 - 37	18.5 / 25	362	362	362	340	309	280	234	198	148	2513	3262	145	145	53	
GP 9 - 38	18.5 / 25	372	372	372	348	318	288	241	204	152	2573	3322	145	145	54	
GP 9 - 39	18.5 / 25	381	381	381	357	325	295	247	208	156	2629	3383	145	145	55	
GP 9 - 40	18.5 / 25	391	391	391	366	332	303	253	212	160	2694	3443	145	145	56	
GP 9 - 41	18.5 / 25	400	400	400	372	342	310	260	218	164	2753	3530	145	145	60	
GP 9 - 42	18.5 / 25	411	410	410	382	350	318	266	224	168	2813	3621	145	145	63	
GP 9 - 43	18.5 / 25	421	420	420	392	360	326	272	230	172	2873	3661	145	145	66	
GP 9 - 44	18.5 / 25	431	430	430	401	368	333	279	235	176	2933	3721	145	145	70	

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

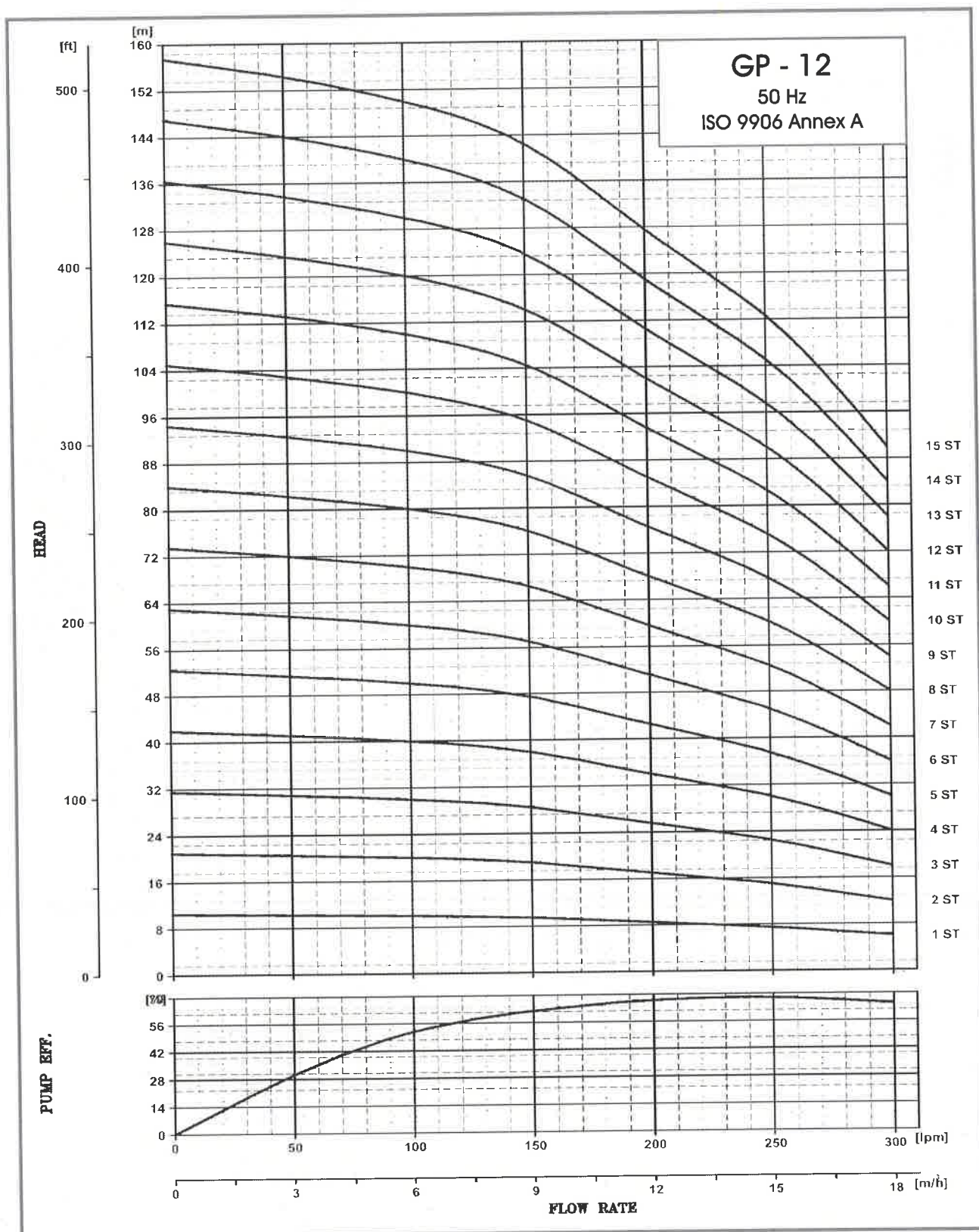


PERFORMANCE CURVE - GP 9



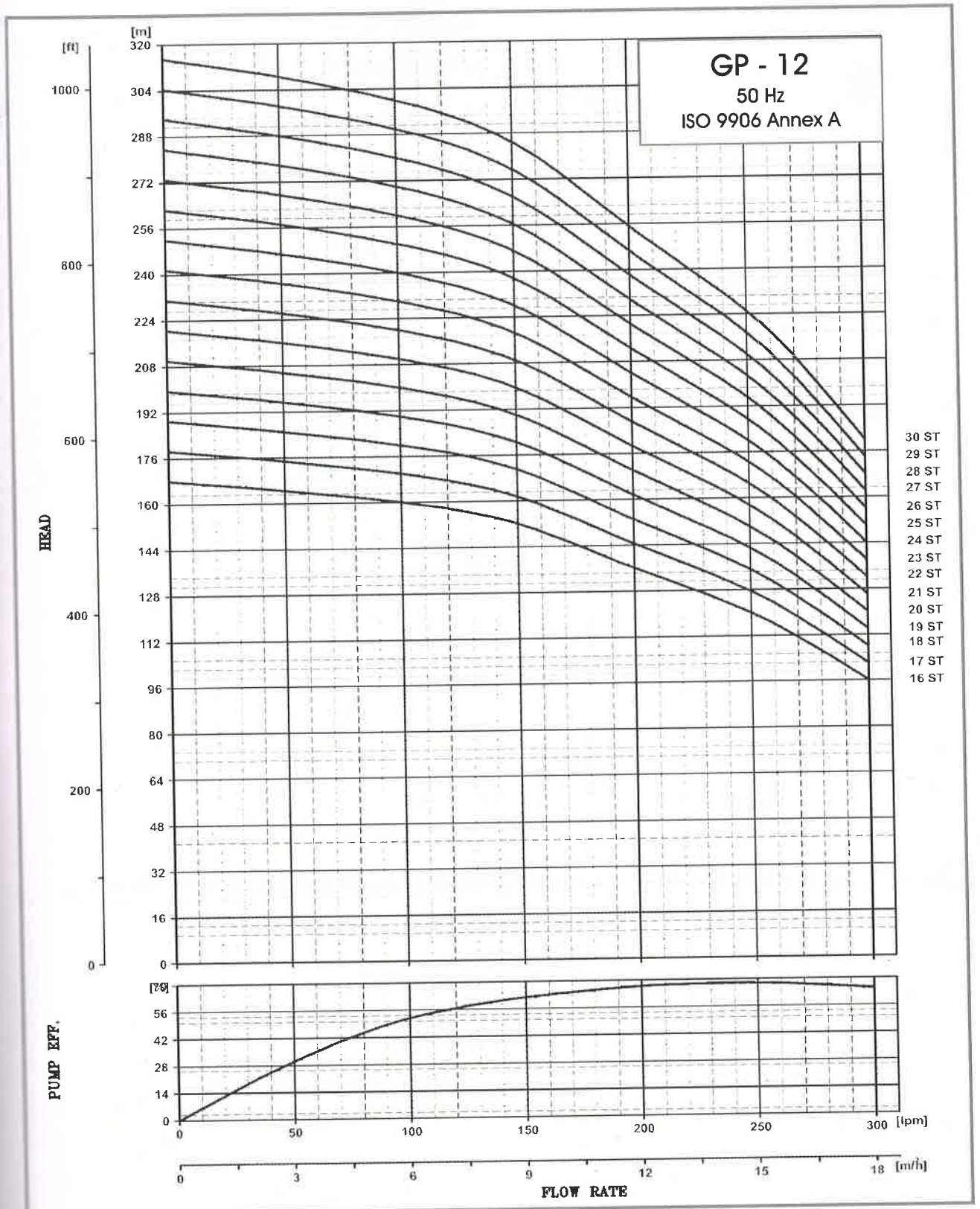


PERFORMANCE CURVE - GP 12





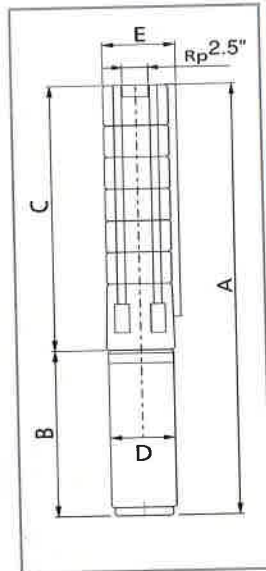
PERFORMANCE CURVE - GP 12





TECHNICAL DATA MODEL GP - 12

Dimension, Weight & Performance Table



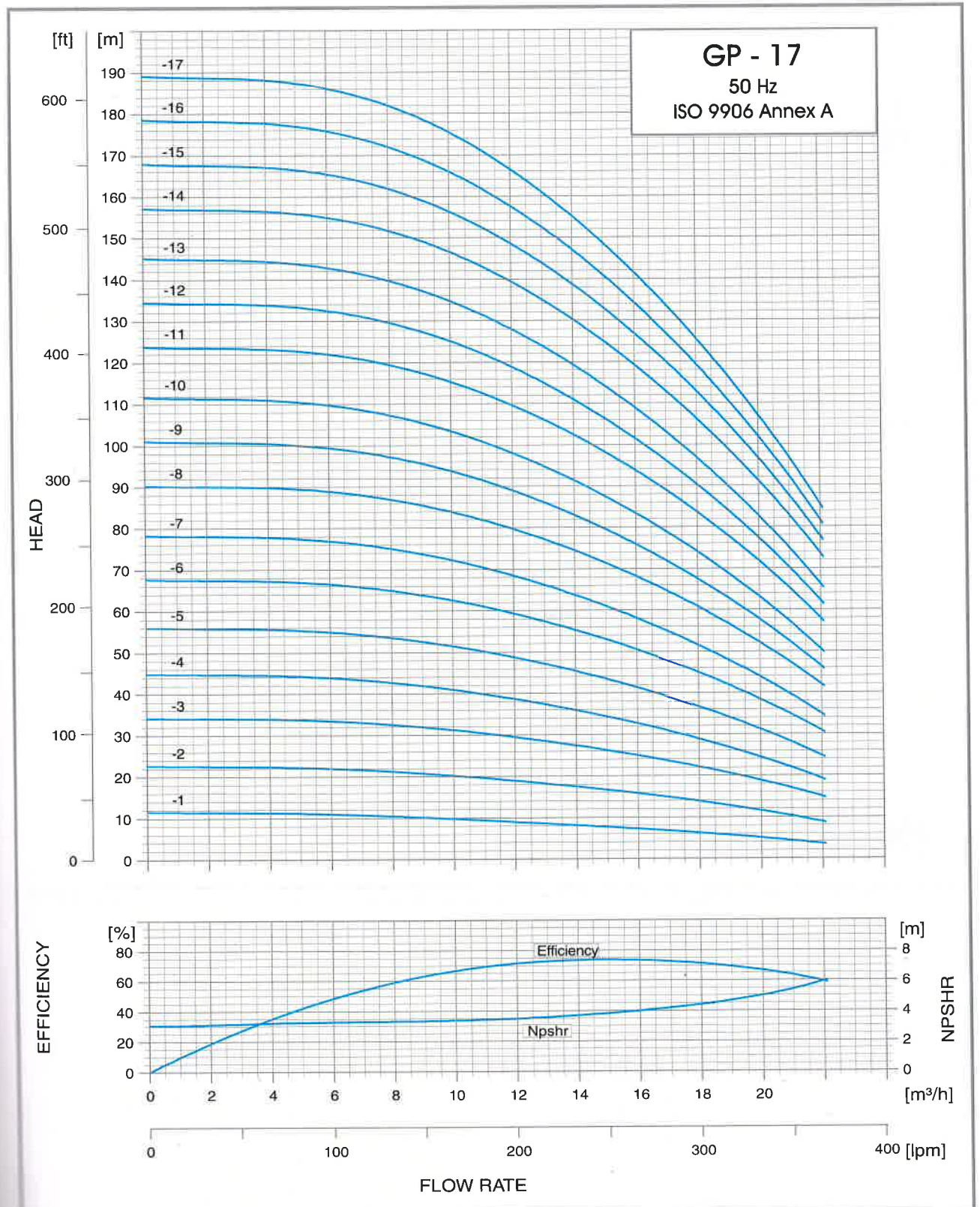
Model - Stage	n-2950 RPM	Discharges (Q)										Dimensions in (mm)				Pump
	m³ / hrs	0	4	6	8	10	12	14	16	18	Rp 3" Thread Connection				Net Weight In Kgs	
	Ltr / Min.	0	67	100	133	167	200	233	267	300						
	Motor kw / HP	Total Head in Meters										C	A	D*		E**
GP 12 - 1	0.55 / 0.75	11	10	10	10	10	9	8	7	6	318	670	95	131	8	
GP 12 - 2	1.1 / 1.5	21	20	20	19	18	17	15	13	12	378	760	95	131	10	
GP 12 - 3	1.5 / 2.0	32	30	30	29	27	26	23	19	18	439	800	95	131	11	
GP 12 - 4	2.2 / 3.0	42	40	40	38	36	34	30	26	24	499	952	95	131	12	
GP 12 - 5	2.2 / 3.0	52	50	50	48	45	43	38	33	30	560	1013	95	131	13	
GP 12 - 6	3.0 / 4.0	63	60	60	57	54	51	45	39	36	620	1112	95	131	15	
GP 12 - 7	3.0 / 4.0	73	70	70	67	64	60	53	46	42	681	1173	95	131	16	
GP 12 - 8	3.7 / 5.0	84	80	80	76	74	69	60	52	46	741	1313	95	131	17	
GP 12 - 9	4.0 / 5.5	95	90	90	86	83	77	68	58	54	802	1374	95	131	18	
GP 12 - 10	4.0 / 5.5	105	100	100	95	92	85	75	65	60	862	1434	95	131	19	
GP 12 - 11	5.5 / 7.5	116	110	110	105	101	94	83	72	66	940	1462	145	145	21	
GP 12 - 12	5.5 / 7.5	126	120	120	114	110	102	90	78	72	1000	1522	145	145	22	
GP 12 - 13	5.5 / 7.5	137	130	130	124	120	111	98	85	78	1061	1614	145	145	23	
GP 12 - 14	7.5 / 10	147	140	140	133	129	119	105	92	84	1121	1690	145	145	24	
GP 12 - 15	7.5 / 10	158	150	150	143	138	128	113	98	90	1182	1751	145	145	26	
GP 12 - 16	7.5 / 10	168	160	160	152	147	136	120	104	96	1242	1811	145	145	27	
GP 12 - 17	7.5 / 10	179	170	170	162	156	145	128	111	102	1303	1902	145	145	28	
GP 12 - 18	9.3 / 12.5	189	180	180	171	166	153	135	118	108	1363	1962	145	145	29	
GP 12 - 19	9.3 / 12.5	200	190	190	181	175	162	143	124	114	1424	2029	145	145	31	
GP 12 - 20	9.3 / 12.5	210	200	200	190	184	174	150	131	120	1484	2083	145	145	32	
GP 12 - 21	9.3 / 12.5	221	210	210	200	193	179	158	136	126	1545	2175	145	145	33	
GP 12 - 22	11 / 15	231	220	220	209	202	187	165	142	132	1605	2235	145	145	34	
GP 12 - 23	11 / 15	242	230	230	219	211	196	173	150	138	1666	2296	145	145	35	
GP 12 - 24	11 / 15	252	240	240	228	221	204	180	158	144	1726	2356	145	145	37	
GP 12 - 25	11 / 15	263	250	250	238	230	213	188	163	150	1787	2448	145	145	38	
GP 12 - 26	13 / 17.5	273	260	260	247	239	221	195	170	156	1847	2506	145	145	39	
GP 12 - 27	13 / 17.5	284	270	270	257	248	230	203	177	162	1908	2567	145	145	40	
GP 12 - 28	13 / 17.5	294	280	280	266	257	238	210	183	168	1968	2627	145	145	42	
GP 12 - 29	13 / 17.5	305	290	290	276	267	247	216	190	174	2029	2722	145	145	43	
GP 12 - 30	15 / 20	315	300	300	285	276	255	225	196	180	2089	2782	145	145	44	
GP 12 - 31	15 / 20	326	310	310	295	285	264	233	202	186	2150	2843	145	145	45	
GP 12 - 32	15 / 20	336	320	320	304	294	274	240	210	192	2210	2903	145	145	47	
GP 12 - 33	15 / 20	347	330	330	314	303	281	248	217	198	2271	2964	145	145	48	
GP 12 - 34	15 / 20	357	340	340	323	313	289	255	222	204	2331	3080	145	145	49	
GP 12 - 35	18.5 / 25	368	350	350	333	322	298	263	230	210	2392	3141	145	145	50	
GP 12 - 36	18.5 / 25	378	360	360	342	331	306	270	235	216	2452	3201	145	145	51	
GP 12 - 37	18.5 / 25	389	370	370	352	340	315	278	242	222	2513	3262	145	145	53	
GP 12 - 38	18.5 / 25	399	380	380	361	349	323	285	248	228	2573	3322	145	145	54	
GP 12 - 39	18.5 / 25	410	390	390	371	359	332	293	255	234	2629	3383	145	145	55	
GP 12 - 40	18.5 / 25	420	400	400	380	368	340	300	262	240	2694	3443	145	145	56	
GP 12 - 41	18.5 / 25	431	410	410	389	377	348	307	268	246	2753	3503	145	145	60	
GP 12 - 42	18.5 / 25	441	420	420	399	386	357	315	275	252	2813	3621	145	145	63	
GP 12 - 43	22 / 30	452	430	430	418	395	365	322	281	258	2873	3661	145	145	66	
GP 12 - 44	22 / 30	462	440	440	429	405	374	330	288	264	2933	3721	145	145	70	

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.



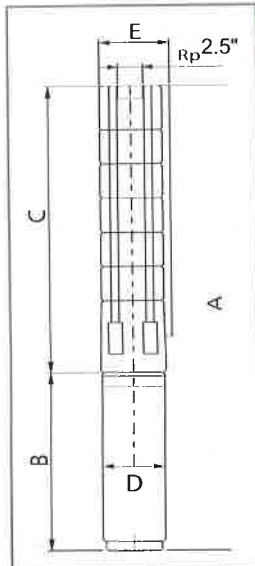
PERFORMANCE CURVE - GP 17





PERFORMANCE CURVE - GP 17

Dimension, Weight & Performance Table



DK 17 - 43 to DK 17-60 pumps are mounted in S.S. Sleeve.

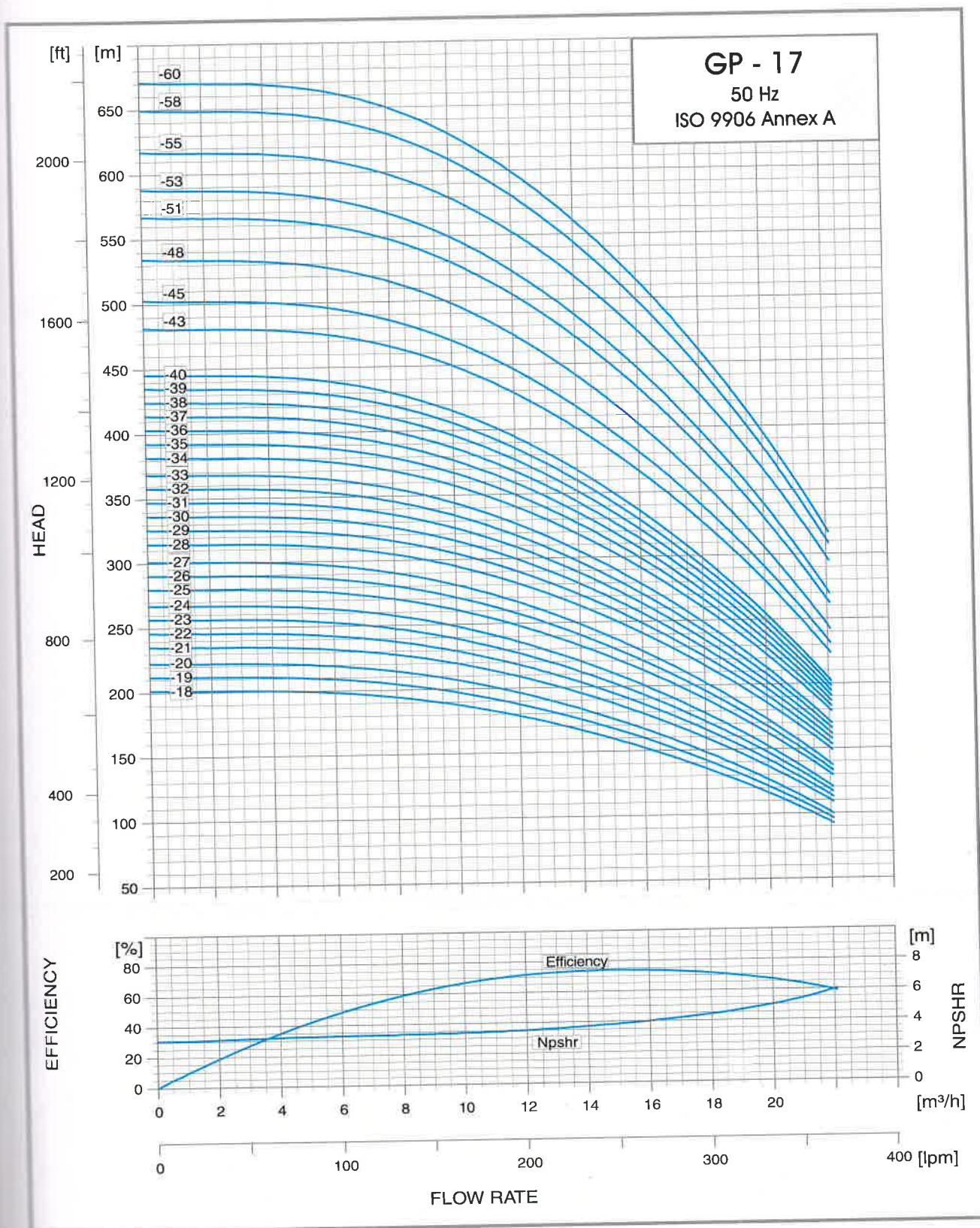
Model - Stage	n-2950 RPM	Discharges (Q)										Dimensions in (mm)				Pump
	m ³ / hrs	0	6	10	12	14	16	18	20	22	Rp 3" Thread Connection				Net Weight In Kgs	
	Ltr / Min.	0	100	167	200	233.7	266.7	300	333.3	366						
	Motor kw / HP	Total Head in Meters										C	A	D*		E**
GP 17 - 1	0.55 / 0.75	12	11	10	9	8	7	6	5	4	318	670	95	131	8	
GP 17 - 2	1.1 / 1.5	23	12	20	19	17	16	14	12	9	378	760	95	131	10	
GP 17 - 3	2.2 / 3.0	34	33	31	29	27	25	22	19	15	439	919	95	131	11	
GP 17 - 4	2.2 / 3.0	45	44	41	39	36	33	29	24	19	499	979	95	131	12	
GP 17 - 5	3.0 / 4.0	56	55	51	49	45	41	37	31	25	560	1183	95	131	13	
GP 17 - 6	4.0 / 5.5	68	66	63	59	55	50	45	38	31	620	1243	95	131	15	
GP 17 - 7	4.0 / 5.5	78	77	72	68	64	58	52	44	35	681	1304	95	131	16	
GP 17 - 8	5.5 / 7.5	90	89	84	80	74	68	61	52	40	758	1452	145	145	17	
GP 17 - 9	5.5 / 7.5	101	99	94	89	83	76	67	58	46	819	1513	145	145	18	
GP 17 - 10	5.5 / 7.5	112	110	103	98	91	83	74	63	50	879	1573	145	145	19	
GP 17 - 11	7.5 / 10	124	122	115	110	102	94	84	72	58	940	1654	145	145	21	
GP 17 - 12	7.5 / 10	135	132	125	119	111	101	90	77	62	1000	1714	145	145	22	
GP 17 - 13	7.5 / 10	145	143	135	128	119	109	97	83	66	1061	1775	145	145	23	
GP 17 - 14	9.3 / 12.5	157	155	147	139	130	119	106	91	74	1121	1865	145	145	24	
GP 17 - 15	9.3 / 12.5	168	165	156	149	139	127	113	97	78	1182	1926	145	145	26	
GP 17 - 16	9.3 / 12.5	179	176	166	158	147	134	119	102	82	1242	1986	145	145	27	
GP 17 - 17	9.3 / 12.5	189	186	175	166	155	141	126	107	86	1303	2047	145	145	28	
GP 17 - 18	11 / 15	202	199	188	178	167	152	136	116	94	1363	2137	145	145	29	
GP 17 - 19	11 / 15	212	209	197	187	175	160	142	121	97	1424	2198	145	145	31	
GP 17 - 20	11 / 15	223	219	207	196	183	167	148	126	101	1484	2258	145	145	32	
GP 17 - 21	13 / 17.5	235	232	220	209	195	179	159	137	110	1545	2369	145	145	33	
GP 17 - 22	13 / 17.5	246	243	229	218	204	186	166	142	114	1605	2429	145	145	34	
GP 17 - 23	13 / 17.5	257	253	239	227	212	193	172	147	118	1666	2490	145	145	35	
GP 17 - 24	13 / 17.5	267	263	248	236	220	201	178	152	122	1726	2550	145	145	37	
GP 17 - 25	15 / 20	280	276	261	248	232	212	189	162	131	1787	2656	145	145	38	
GP 17 - 26	15 / 20	291	286	271	257	240	220	196	168	135	1847	2716	145	145	39	
GP 17 - 27	15 / 20	301	297	280	266	249	227	202	173	139	1908	2777	145	145	40	
GP 17 - 28	18.5 / 25	315	311	295	281	263	241	215	186	151	1968	2882	145	145	42	
GP 17 - 29	18.5 / 25	326	321	305	290	272	249	222	191	155	2029	2943	145	145	43	
GP 17 - 30	18.5 / 25	336	332	315	299	280	257	229	197	159	2089	3003	145	145	44	
GP 17 - 31	18.5 / 25	347	342	324	309	289	264	236	202	163	2150	3064	145	145	45	
GP 17 - 32	18.5 / 25	358	353	334	318	297	272	242	208	168	2210	3124	145	145	47	
GP 17 - 33	18.5 / 25	368	363	344	327	305	279	249	213	172	2271	3185	145	145	48	
GP 17 - 34	22 / 30	382	377	357	340	318	291	260	223	181	2331	3335	145	145	49	
GP 17 - 35	22 / 30	392	387	367	349	326	299	266	229	185	2392	3396	145	145	50	
GP 17 - 36	22 / 30	403	398	377	358	335	306	273	234	189	2452	3456	145	145	51	
GP 17 - 37	22 / 30	414	408	386	367	343	314	279	240	193	2513	3517	145	145	53	
GP 17 - 38	22 / 30	425	418	396	376	351	321	286	245	197	2573	3577	145	145	54	
GP 17 - 39	22 / 30	435	429	405	385	360	328	292	250	201	2634	3638	145	145	55	
GP 17 - 40	22 / 30	446	439	415	394	368	336	298	255	205	2694	3698	145	145	56	
GP 17 - 43	26 / 35	481	475	450	428	400	366	326	280	27	2876	3985	145	145	60	
GP 17 - 45	26 / 35	503	496	469	446	417	381	339	291	235	2997	4106	145	145	63	
GP 17 - 48	26 / 35	535	527	498	473	441	403	358	306	246	3178	4287	145	145	66	

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

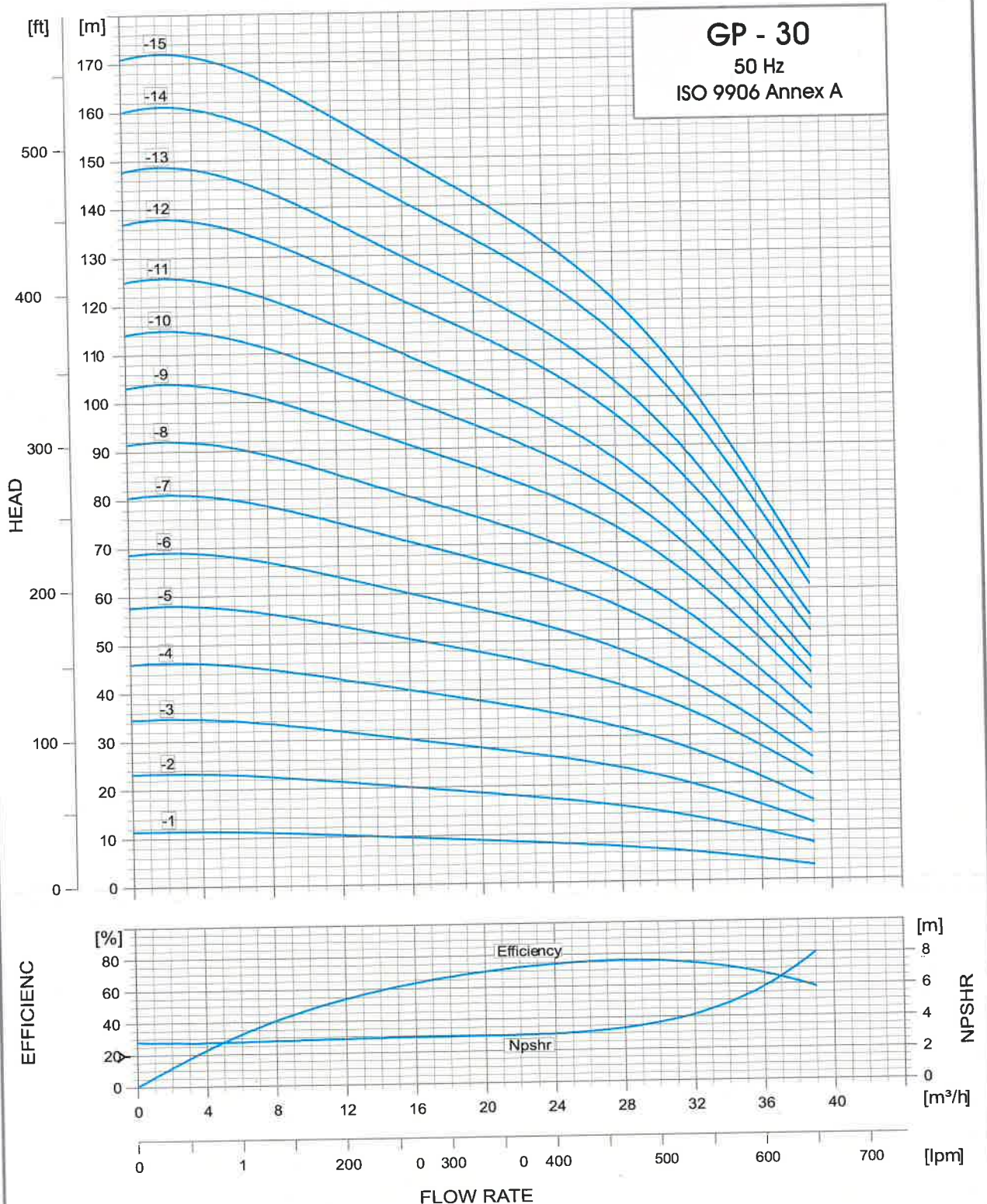


PERFORMANCE CURVE - GP 17



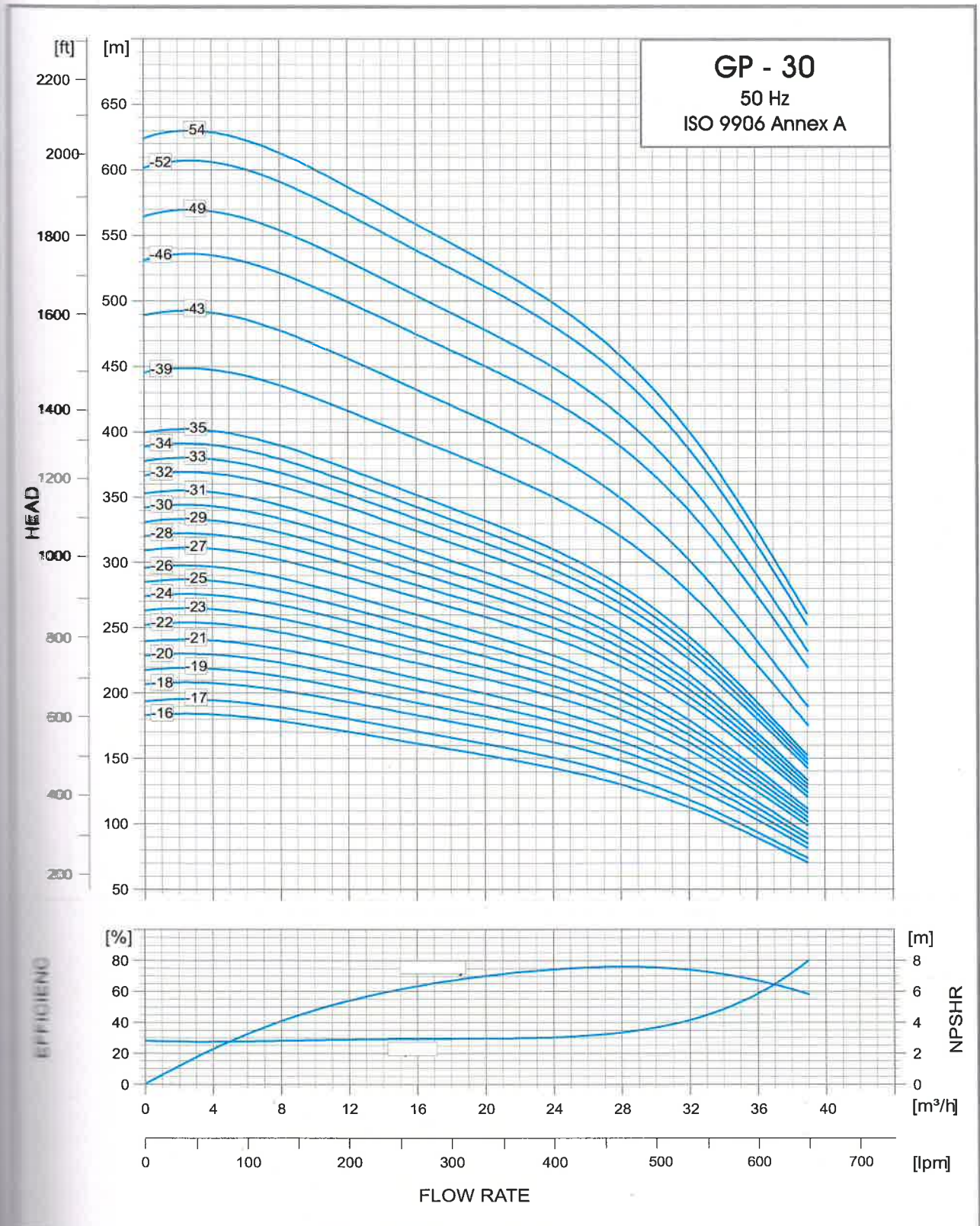


PERFORMANCE CURVE - GP 30





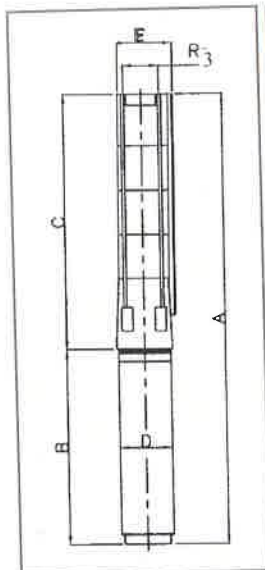
PERFORMANCE CURVE - GP 30





PERFORMANCE CURVE - GP 30

Dimension, Weight & Performance Table



DK 30 - 39 to DK 30-54 pumps are mounted in S.S. Sleeve.

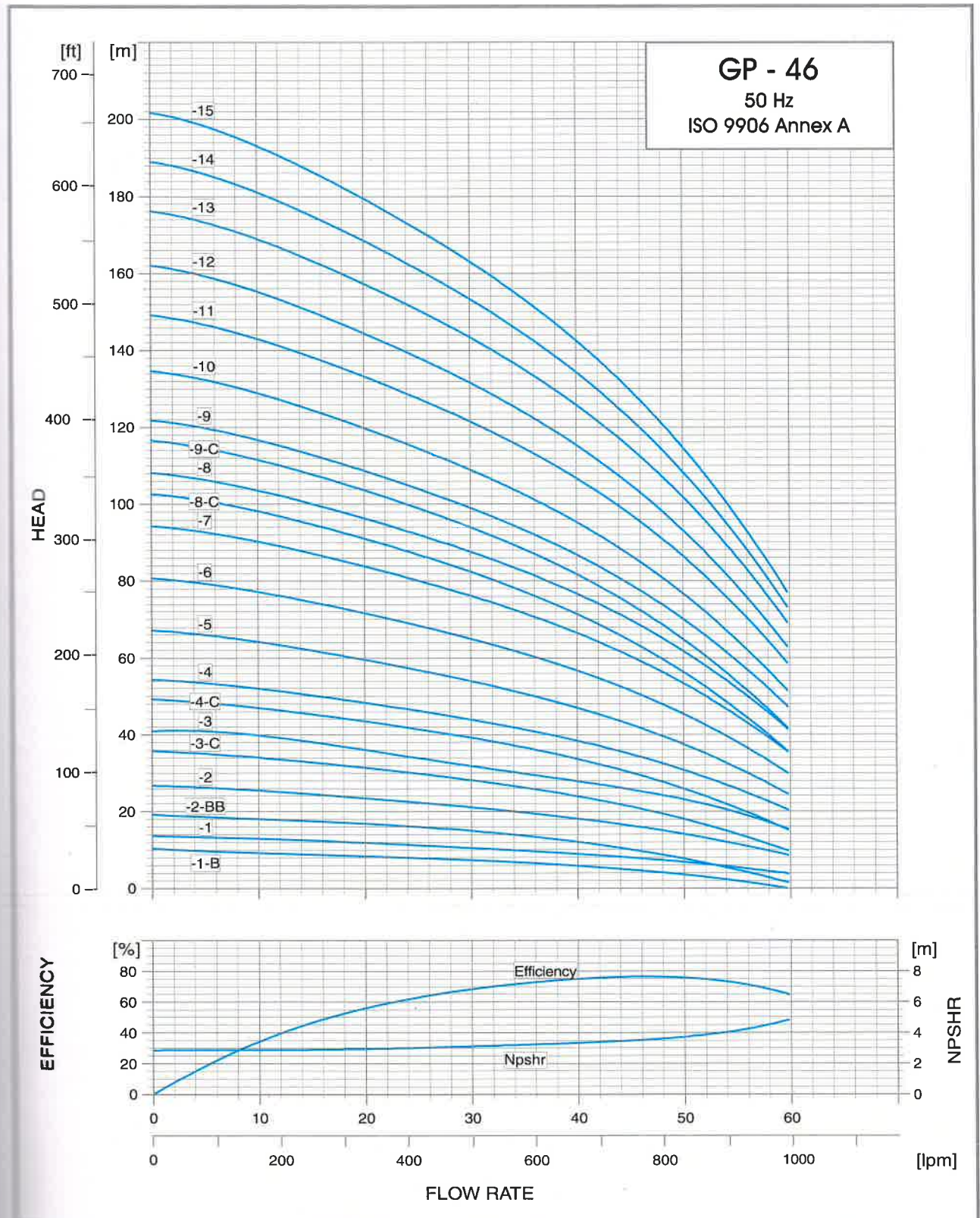
Model - Stage	n-2950 RPM	Discharges (Q)										Dimensions in (mm)				Pump
	m ³ / hrs	0	8	16	16	20	24	28	32	39	Rp 3" Thread Connection				Net	
	Ltr / Min.	0	133	200	267	333	400	467	533	650					Weight	
	Motor kw / HP	Total Head in Meters										C	A	D*	E**	In Kgs
GP 30 - 1	1.1 / 1.5	11	11	10	10	9	8	7	6	3	349	658	95	131	8	
GP 30 - 2	2.2 / 3	23	23	21	20	19	17	16	13	8	445	902	95	131	10	
GP 30 - 3	3 / 4.0	35	33	32	30	28	26	24	20	12	541	1037	95	131	12	
GP 30 - 4	4 / 5.5	46	45	43	40	38	35	32	27	16	637	1213	95	131	14	
GP 30 - 5	5.5 / 7.5	58	56	54	51	48	45	41	35	22	733	1409	95	131	16	
GP 30 - 6	5.5 / 7.5	69	67	64	60	57	53	48	41	25	829	1505	95	131	18	
GP 30 - 7	7.5 / 10	80	79	75	71	67	63	57	49	31	925	1702	95	131	20	
GP 30 - 8	7.5 / 10	91	89	85	80	76	71	64	55	34	1021	1798	95	131	22	
GP 30 - 5	5.5 / 7.5	58	56	54	51	48	45	41	35	22	749	1292	145	145	16	
GP 30 - 6	5.5 / 7.5	69	67	64	60	57	53	48	41	25	845	1388	145	145	18	
GP 30 - 7	7.5 / 10	80	79	75	71	67	63	57	49	31	941	1515	145	145	20	
GP 30 - 8	7.5 / 10	91	89	85	80	76	71	64	55	34	1037	1611	145	145	22	
GP 30 - 9	9.2 / 12.5	103	101	96	91	86	80	73	63	39	1133	1737	145	145	24	
GP 30 - 10	9.2 / 12.5	114	111	106	100	95	88	80	69	43	1229	1833	145	145	25	
GP 30 - 11	9.2 / 12.5	125	122	116	110	103	96	87	75	46	1325	1929	145	145	27	
GP 30 - 12	11 / 15	137	134	127	121	114	106	97	83	51	1421	2056	145	145	29	
GP 30 - 13	11 / 15	148	144	137	130	122	114	103	89	55	1517	2152	145	145	31	
GP 30 - 14	13 / 17.5	160	156	149	141	133	125	113	98	61	1613	2277	145	145	33	
GP 30 - 15	13 / 17.5	171	167	159	150	142	132	120	104	64	1709	2373	145	145	35	
GP 30 - 16	15 / 20	183	179	171	162	153	143	130	112	70	1805	2503	145	145	37	
GP 30 - 17	15 / 20	194	189	180	171	161	151	137	118	74	1901	2599	145	145	39	
GP 30 - 18	18.5 / 25	207	202	193	183	173	163	148	129	82	1997	2751	145	145	41	
GP 30 - 19	18.5 / 25	218	213	203	193	182	171	156	135	85	2093	2847	145	145	42	
GP 30 - 20	18.5 / 25	229	223	213	202	191	179	163	141	89	2189	2943	145	145	44	
GP 30 - 21	18.5 / 25	240	234	223	212	200	187	170	147	92	2285	3039	145	145	46	
GP 30 - 22	22 / 30	252	246	235	223	211	198	180	156	99	2381	3193	145	145	48	
GP 30 - 23	22 / 30	263	257	245	233	220	206	188	162	102	2477	3289	145	145	50	
GP 30 - 24	22 / 30	274	268	255	242	228	214	195	168	105	2573	3385	145	145	52	
GP 30 - 25	22 / 30	285	278	265	251	237	221	201	174	108	2669	3481	145	145	54	
GP 30 - 26	22 / 30	296	288	275	260	245	229	208	179	111	2765	3577	145	145	56	
GP 30 - 27	26 / 35	309	302	288	274	259	242	221	191	121	2861	3735	145	145	58	
GP 30 - 28	26 / 35	320	313	298	283	267	250	228	197	124	2957	3831	145	145	59	
GP 30 - 29	26 / 35	331	323	308	292	276	258	235	203	127	3053	3927	145	145	61	
GP 30 - 30	26 / 35	343	333	318	301	284	266	242	209	130	3149	4023	145	145	63	
GP 30 - 31	30 / 40	353	344	328	310	293	274	249	215	133	3245	4189	145	145	65	
GP 30 - 32	30 / 40	367	358	342	324	306	287	262	227	143	3341	4285	145	145	67	
GP 30 - 33	30 / 40	378	369	352	334	315	295	269	232	146	3437	4381	145	145	69	
GP 30 - 34	30 / 40	389	379	362	343	324	303	276	238	149	3533	4477	145	145	71	
GP 30 - 35	30 / 40	399	390	372	352	332	310	283	244	152	3629	4573	145	145	73	
GP 30 - 39	37 / 50	445	435	416	395	374	351	320	278	176	4260	5400	188	188	99	

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.



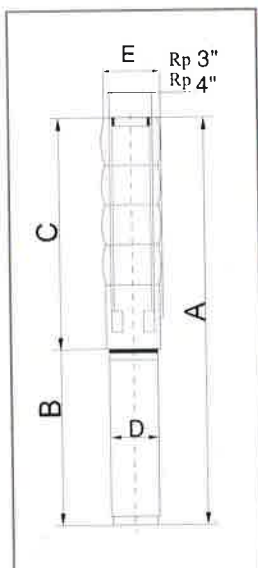
PERFORMANCE CURVE - GP 46





PERFORMANCE CURVE - GP 46

Dimension, Weight & Performance Table



DK 46-26 to DK 46-37 pumps are mounted in S.S. Sleeve.

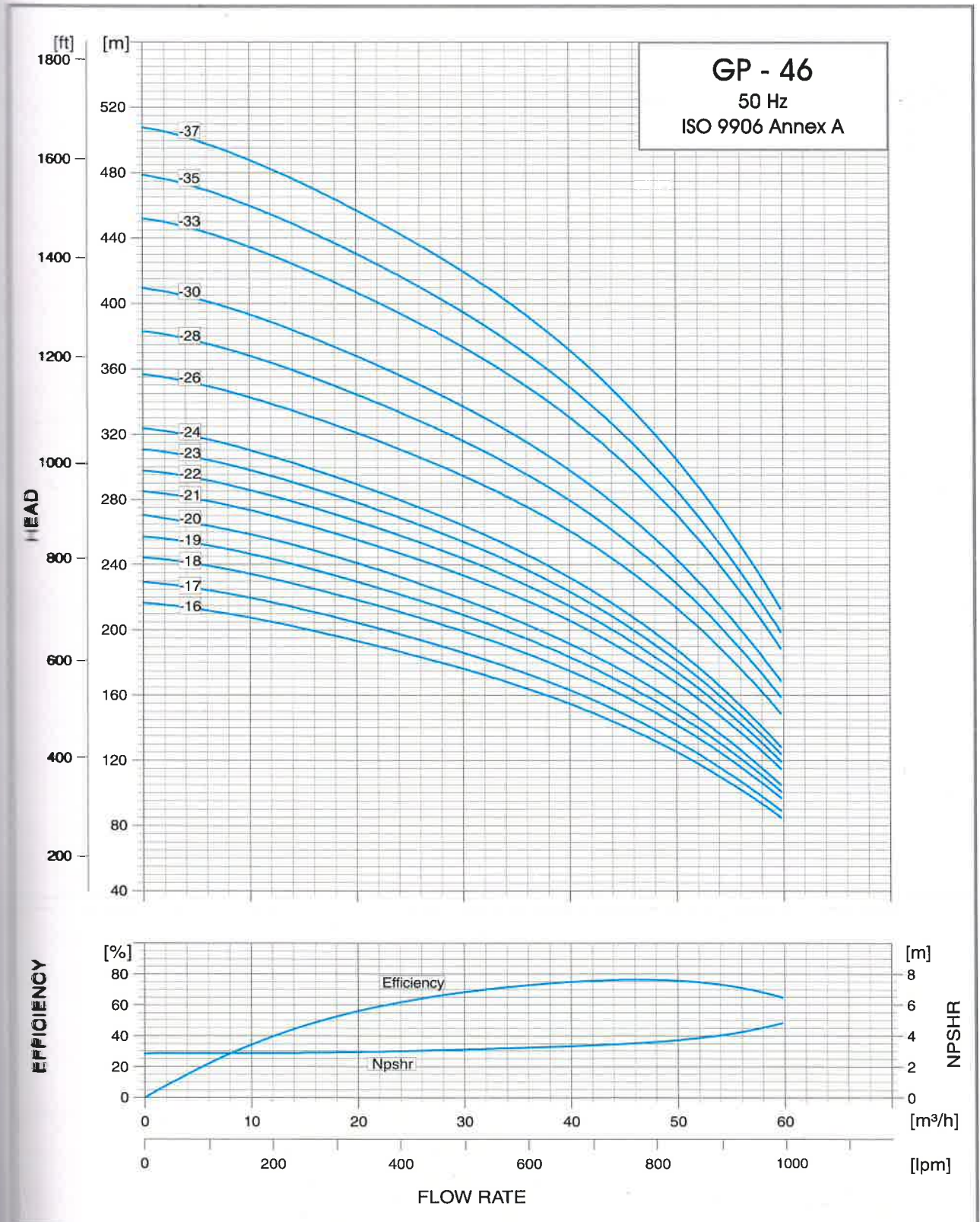
Model - Stage	n-2950 RPM	Discharges (Q)									Dimensions in (mm)				Pump
	m³ / hrs	0	15	25	35	40	45	50	55	59.8	Rp 4" Thread Connection				Net Weight In Kgs
	Ltr / Min.	0	250	416.7	583	667	750	833	917	997					
	Motor kw / HP	Total Head in Meters									C	A	D*	E**	
GP 46 - 2-BB	2.2 / 3.0	19	17	16	14	12	10	8	5	1	483	831	95	145	8
GP 46 - 2	3 / 4.0	27	24	22	20	18	16	14	11	9	483	979	95	145	8
GP 46 - 3-C	4 / 5.5	36	33	30	26	24	21	18	14	10	596	1170	95	145	11
GP 46 - 3	5.5 / 7.5	41	38	34	30	28	26	23	20	15	612	1156	145	152	12
GP 46 - 4-C	5.5 / 7.5	49	45	41	37	34	30	26	21	15	709	1253	145	152	14
GP 46 - 4	7.5 / 10	54	50	46	41	38	35	31	26	20	725	1299	145	152	15
GP 46 - 5	7.5 / 10	67	62	57	51	47	43	37	31	24	838	1412	145	152	17
GP 46 - 6	9.2 / 12.5	81	75	68	61	57	51	45	38	30	951	1555	145	152	19
GP 46 - 7	11 / 15	94	87	80	72	66	60	53	45	35	1064	1698	145	152	22
GP 46 - 8-C	11 / 15	103	95	87	77	71	64	56	46	36	1177	1811	145	152	24
GP 46 - 8	13 / 17.5	108	100	92	83	77	70	62	52	41	1177	1841	145	152	24
GP 46 - 9-C	13 / 17.5	117	108	99	88	82	74	65	54	42	1290	1954	145	152	26
GP 46 - 9	15 / 20	122	113	104	93	87	79	70	59	47	1290	1988	145	152	26
GP 46 - 10	15 / 20	135	125	115	103	95	87	77	65	51	1403	2101	145	152	29
GP 46 - 11	18.5 / 25	149	138	128	115	107	97	86	73	59	1516	2270	145	152	31
GP 46 - 12	18.5 / 25	162	150	138	124	115	105	93	79	63	1629	2383	145	152	33
GP 46 - 13	22 / 30	176	163	151	135	126	115	102	86	69	1855	2667	145	152	35
GP 46 - 14	22 / 30	189	175	161	144	134	122	108	92	73	1855	2667	145	152	37
GP 46 - 15	22 / 30	202	187	172	154	143	130	115	97	77	1968	2780	145	152	39
GP 46 - 16	26 / 35	217	201	185	166	155	141	125	106	85	2081	2955	145	152	41
GP 46 - 17	26 / 35	229	213	196	175	163	149	132	112	89	2194	3068	145	152	43
GP 46 - 18	30 / 40	244	227	209	188	175	160	142	121	97	2307	3251	145	152	45
GP 46 - 19	30 / 40	257	239	220	197	183	167	148	126	101	2420	3364	145	152	47
GP 46 - 20	30 / 40	270	251	230	206	192	175	155	132	105	2613	3557	145	152	50
GP 46 - 21	37 / 50	285	265	245	221	206	188	167	143	115	2726	3866	188	188	54
GP 46 - 22	37 / 50	298	277	256	230	215	196	174	148	119	2839	3979	188	188	56
GP 46 - 23	37 / 50	311	289	267	240	223	204	181	154	124	2952	4092	188	188	57
GP 46 - 24	37 / 50	324	300	277	249	232	212	188	160	128	3065	4205	188	188	59
GP 46 - 26	45 / 60	357	332	308	279	261	239	214	183	149	3403	4633	188	188	90
GP 46 - 28	45 / 60	383	357	331	299	280	256	229	196	159	3629	4859	188	188	99
GP 46 - 30	45 / 60	410	381	353	319	298	273	244	208	169	3855	5085	188	188	108
GP 46 - 33	55 / 75	452	422	391	354	331	303	271	232	189	4194	538	188	188	122

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

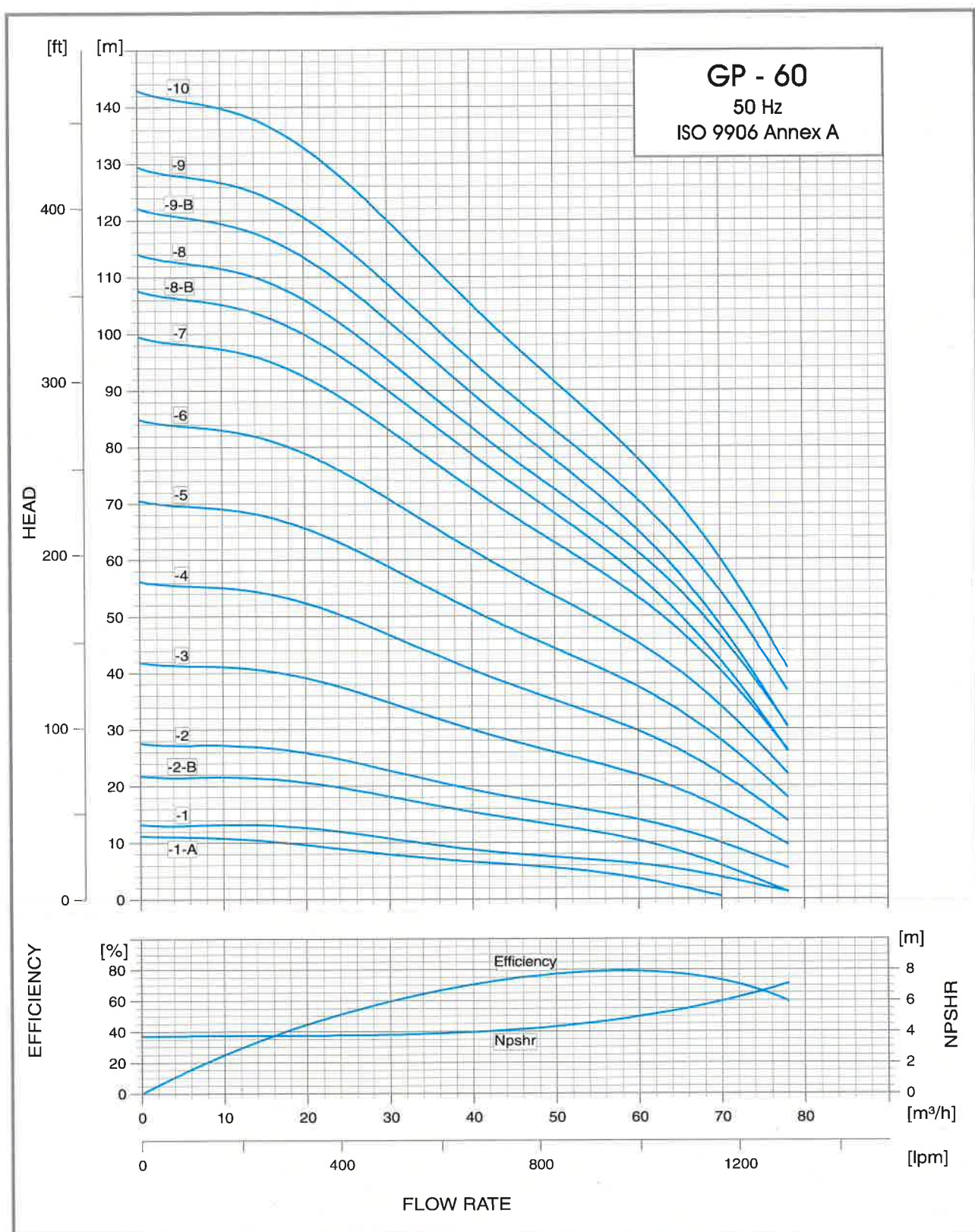


PERFORMANCE CURVE - GP 46



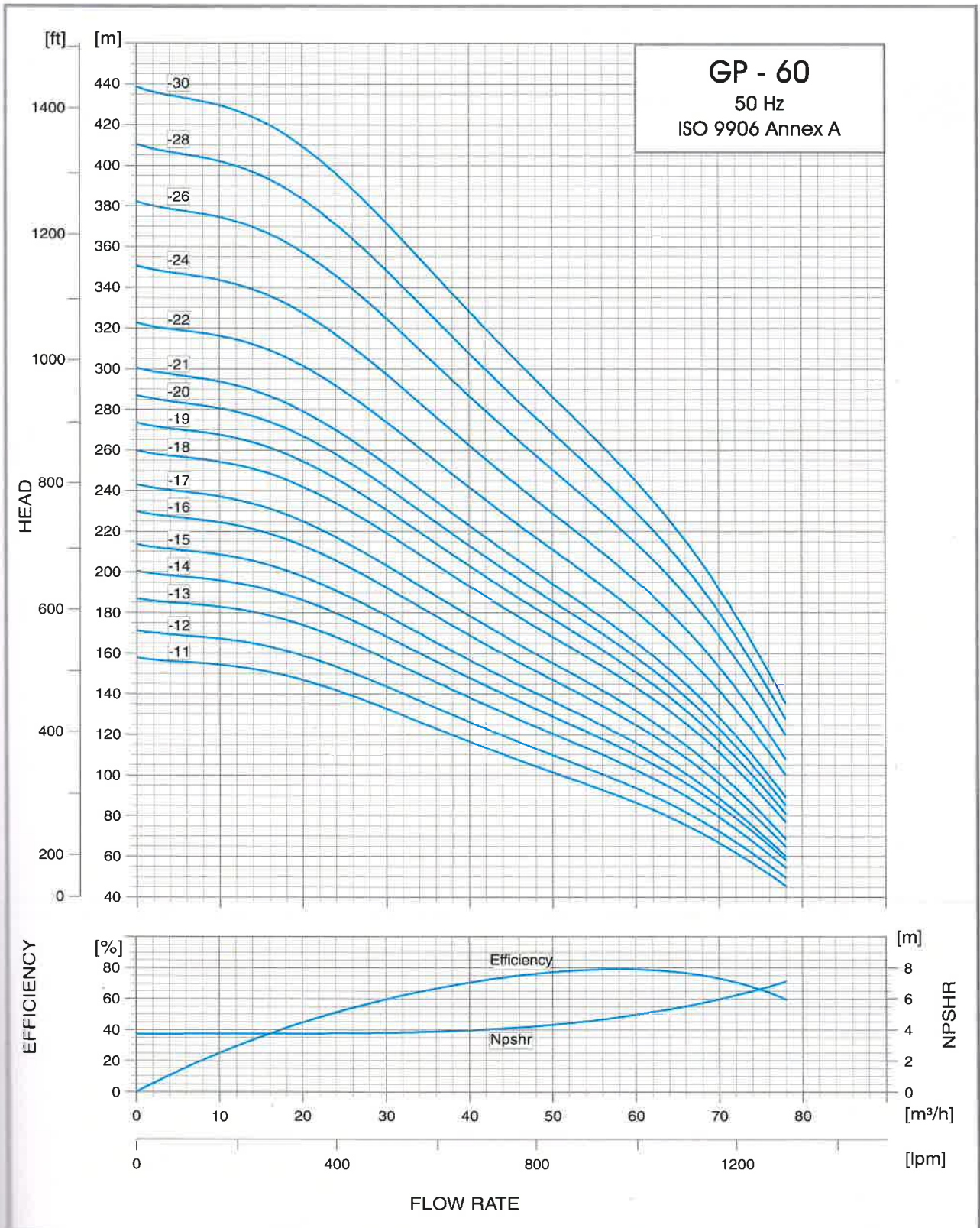


PERFORMANCE CURVE - GP 60





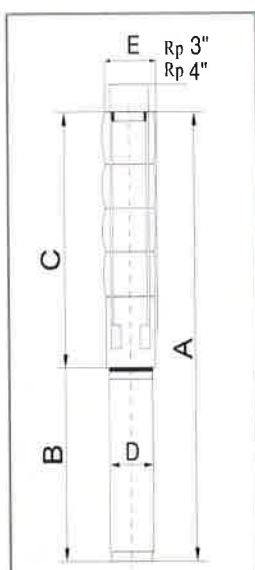
PERFORMANCE CURVE - GP 60





PERFORMANCE CURVE - GP 60

Dimension, Weight & Performance Table



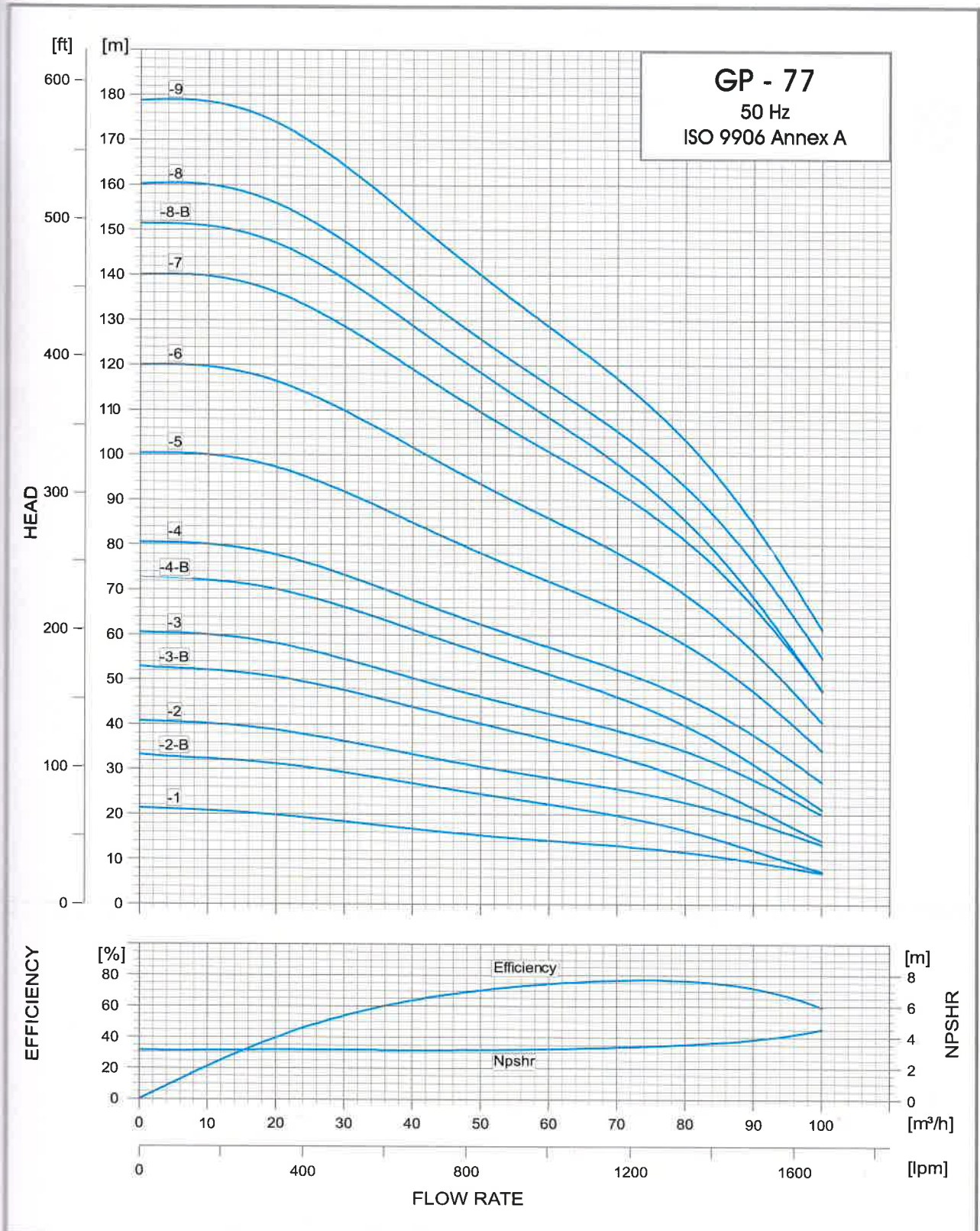
Model - Stage	n-2950 RPM	Discharges (Q)										Dimensions in (mm)				Pump
	m ³ / hrs	0	10	20	30	40	50	60	70	78	Rp 4" Thread Connection				Net Weight In Kgs	
	Ltr / Min.	0	167	333	500	667	833	1000	1167	1300						
	Motor kw / HP	Total Head in Meters										C	A	D*		E**
GP 60 - 2-B	3.0 / 4	22	22	21	18	15	13	10	6	1	483	977	95	145	8	
GP 60 - 2	4 / 5.5	28	27	26	23	19	17	14	10	5	483	1059	95	145	8	
GP 60 - 3	5.5 / 7.5	42	41	39	35	30	26	22	16	10	596	1271	95	145	10	
GP 60 - 4	7.5 / 10	56	55	52	47	41	35	30	22	14	709	1486	95	145	12	
GP 60 - 3	5.5 / 7.5	42	41	39	35	30	26	22	16	10	596	1139	145	152	13	
GP 60 - 4	7.5 / 10	56	55	52	47	41	35	30	22	14	709	1283	145	152	16	
GP 60 - 5	9.2 / 12.5	71	69	66	59	51	44	38	28	18	838	1442	145	152	18	
GP 60 - 6	11 / 15	85	83	79	71	62	54	45	34	22	951	1586	145	152	20	
GP 60 - 7	13 / 17.5	99	97	92	83	73	63	53	40	26	1064	1728	145	152	22	
GP 60 - 8-B	13 / 17.5	108	105	100	90	79	68	57	42	26	1177	1841	145	152	24	
GP 60 - 8	15 / 20	114	112	106	96	84	73	61	47	31	1177	1875	145	152	24	
GP 60 - 9-B	15 / 20	122	119	113	102	90	78	65	48	30	1290	1988	145	152	28	
GP 60 - 9	18.5 / 25	129	127	121	109	95	83	71	54	37	1290	2044	145	152	28	
GP 60 - 10	18.5 / 25	143	140	133	120	105	92	78	60	41	1403	2157	145	152	30	
GP 60 - 11	22 / 30	158	154	147	133	116	101	86	67	45	1516	2328	145	152	32	
GP 60 - 12	22 / 30	171	167	159	144	126	110	94	72	50	1629	2441	145	152	34	
GP 60 - 13	26 / 35	187	183	174	157	138	120	103	79	54	1742	2616	145	152	36	
GP 60 - 14	26 / 35	200	196	186	168	148	129	110	85	58	1855	2729	145	152	38	
GP 60 - 15	26 / 35	214	209	198	179	157	136	116	89	60	1968	2842	145	152	40	
GP 60 - 16	30 / 40	230	224	213	192	169	147	125	96	65	2081	3025	145	152	42	
GP 60 - 17	30 / 40	243	237	225	203	179	155	132	101	69	2194	3138	145	152	44	
GP 60 - 18	37 / 50	260	254	242	219	193	168	143	111	77	2387	3527	188	188	46	
GP 60 - 19	37 / 50	274	268	255	231	203	177	151	117	81	2500	3640	188	188	48	
GP 60 - 20	37 / 50	287	281	267	242	213	186	158	123	85	2613	3753	188	188	50	
GP 60 - 21	37 / 50	301	294	279	253	223	194	166	129	89	2726	3866	188	188	52	
GP 60 - 22	45 / 60	323	316	302	274	242	211	181	142	100	2788	4018	188	188	54	

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.



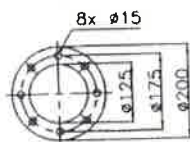
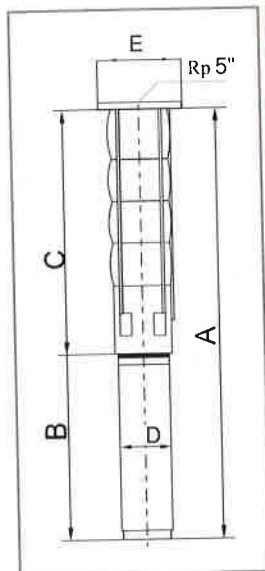
PERFORMANCE CURVE - GP 77





PERFORMANCE CURVE - GP 77

Dimension, Weight & Performance Table



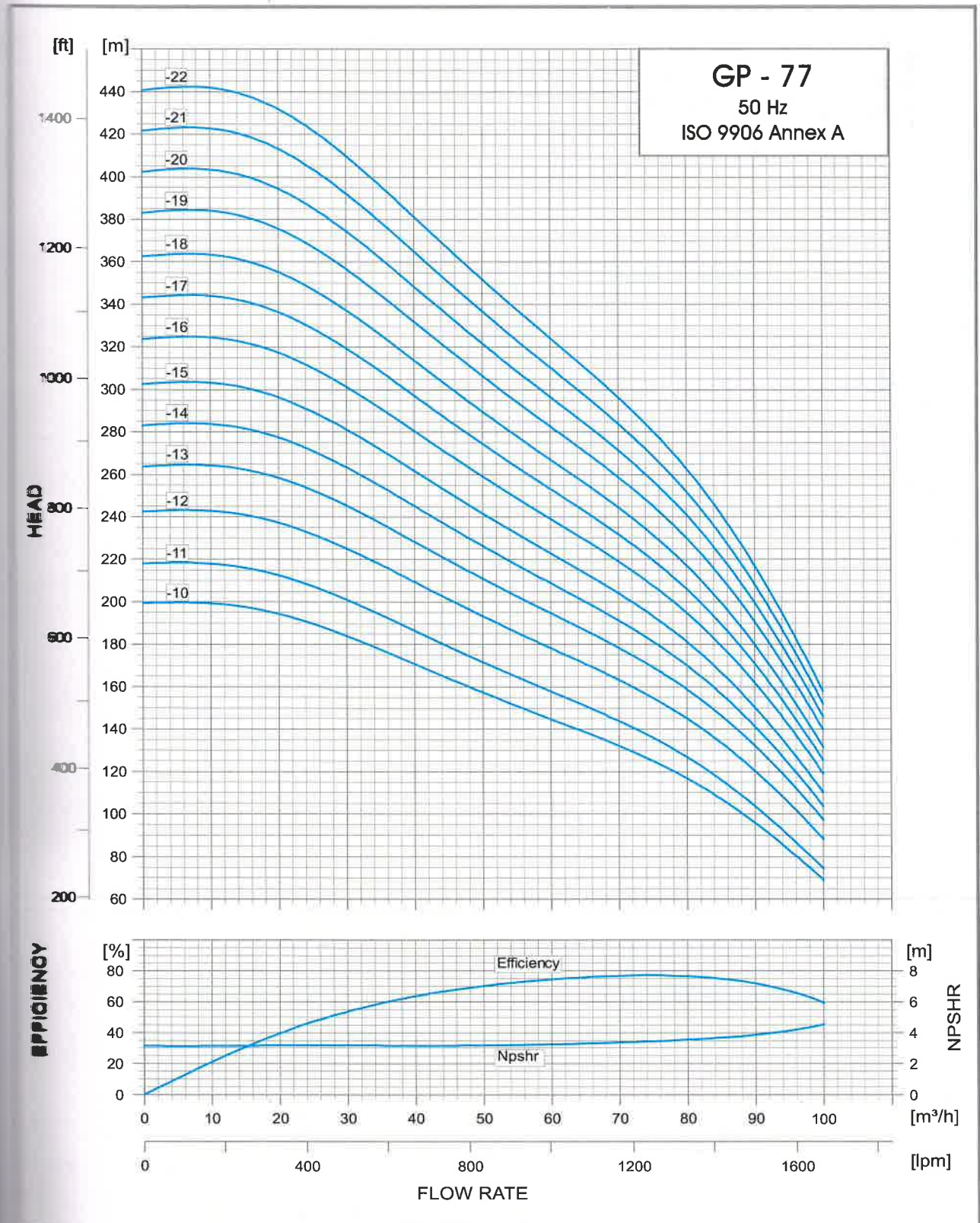
Model - Stage	n-2950 RPM	Discharges (Q)										Dimensions in (mm)				Pump
	m³ / hrs	0	20	40	50	60	70	80	90	100	Rp 5" Thread Connection				Net Weight In Kgs	
	Ltr / Min.	0	333	666	833	1000	1167	1300	1500	1666						
	Motor kw / HP	Total Head in Meters										C	A	D*	E**	
GP77-1	5.5 / 7.5	21	20	17	15	14	13	12	10	7	618	1161	145	186	21	
GP77-2-B	5.5 / 7.5	33	31	27	25	22	20	16	12	7	746	1289	145	186	24	
GP77-2	7.5 / 10	41	39	33	31	28	26	23	18	13	746	1320	145	186	24	
GP77-3-B	9.2 / 12.5	53	51	44	40	37	33	28	22	14	874	1478	145	186	28	
GP77-3	11 / 15	61	58	50	46	42	39	34	28	20	874	1508	145	186	28	
GP77-4-B	13 / 17.5	73	70	61	56	51	46	40	31	21	1003	1667	145	186	31	
GP77-4	15 / 20	81	78	68	62	57	52	46	38	27	1003	1701	145	186	31	
GP77-5	18.5 / 25	100	97	85	78	72	66	58	47	34	1131	1885	145	186	35	
GP77-6	22 / 30	120	116	102	94	86	78	69	56	41	1259	2071	145	186	38	
GP77-7	26 / 35	140	136	119	110	101	92	81	66	48	1387	2261	145	186	42	
GP77-8-B	26 / 35	152	147	129	118	108	98	85	68	48	1515	2389	145	186	46	
GP77-8	30 / 40	160	156	137	126	116	105	93	76	55	1515	2459	145	186	46	
GP77-9	30 / 40	179	174	152	140	129	117	103	85	61	1643	2587	145	186	49	
GP77-10	37 / 50	199	194	171	157	145	132	117	96	69	1771	2911	188	186	53	
GP77-11	37 / 50	218	212	186	172	158	144	127	104	74	1914	3054	188	186	57	
GP77-12	45 / 60	242	237	209	193	178	163	145	120	88	2043	3273	188	186	60	
GP77-13	55 / 75	264	258	228	211	195	178	159	132	98	2172	3512	188	186	64	
GP77-14	55 / 75	283	277	245	226	209	191	170	141	104	2300	3640	188	186	68	
GP77-15	55 / 75	303	296	262	242	223	204	181	150	110	2429	3769	188	186	72	
GP77-16	63 / 85	324	317	281	259	239	219	195	162	119	2557	4047	188	186	76	
GP77-17	63 / 85	343	336	297	274	253	232	206	171	126	2685	4175	188	186	80	
GP77-18	63 / 85	363	355	314	290	267	244	217	180	132	2814	4304	188	186	84	
GP77-19	75 / 100	383	376	332	307	283	259	230	191	140	3236	4796	188	186	88	
GP77-20	75 / 100	402	395	349	322	297	271	241	200	146	3364	4924	188	186	92	

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

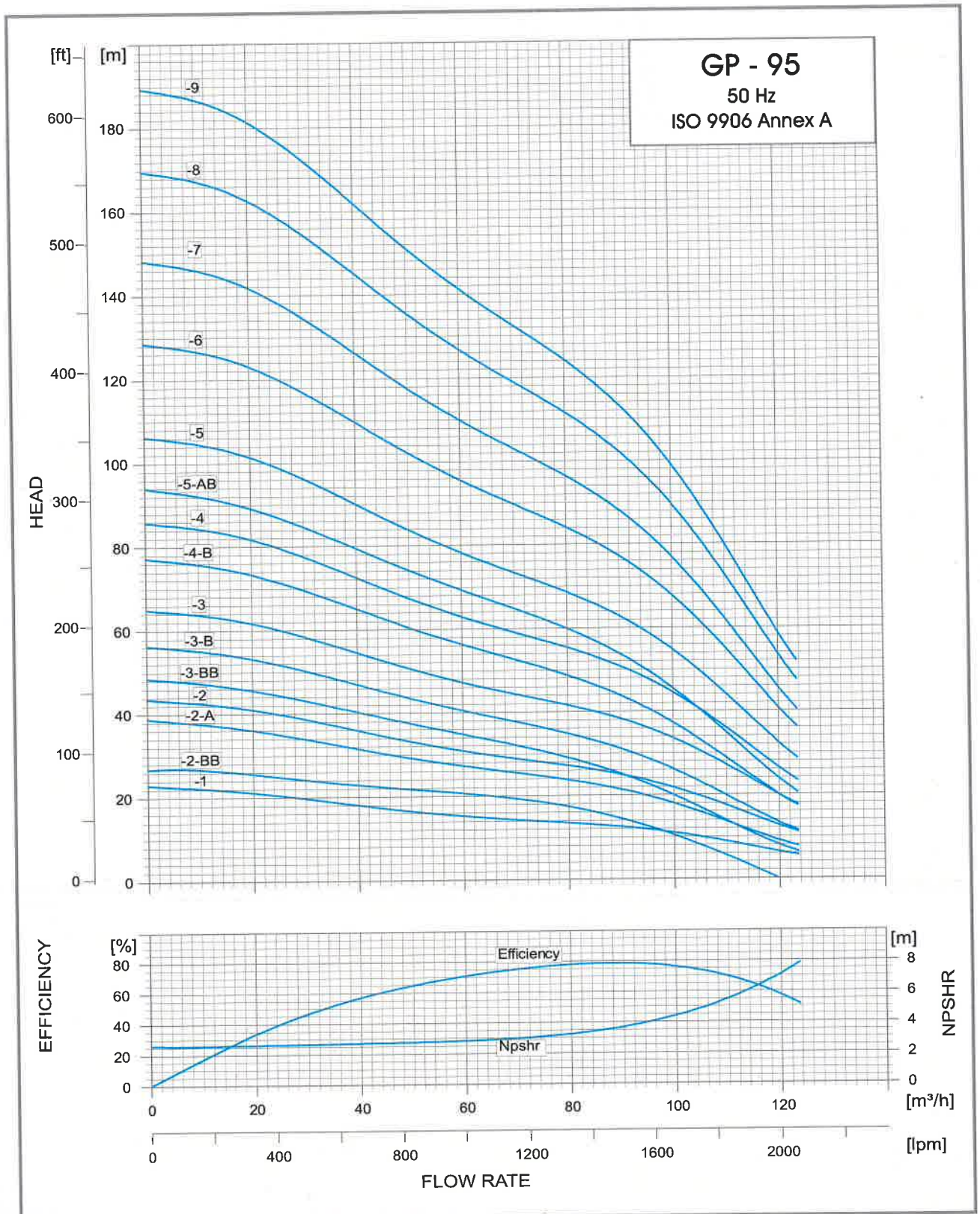


PERFORMANCE CURVE - GP 77



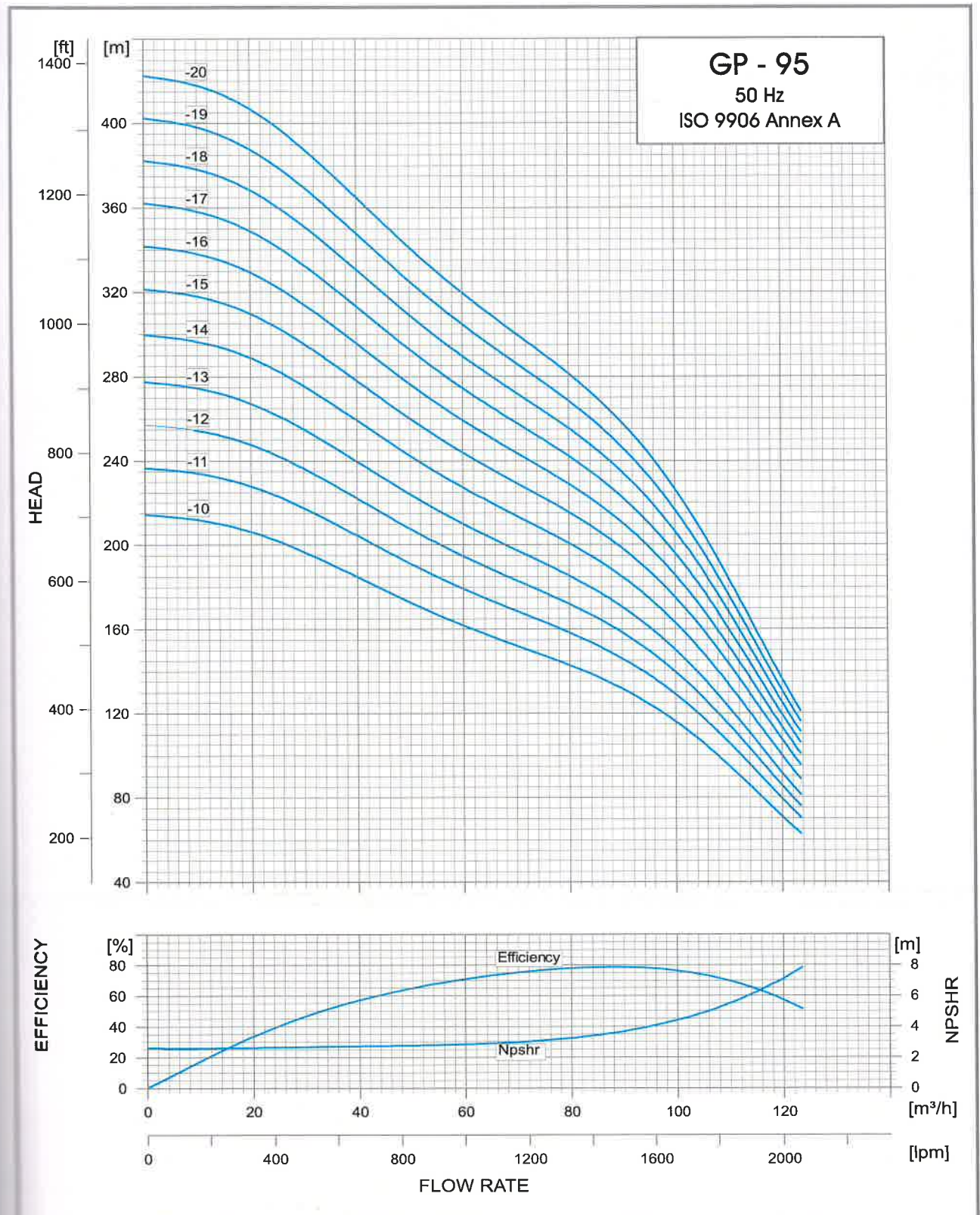


PERFORMANCE CURVE - GP 95





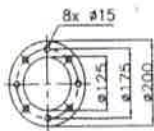
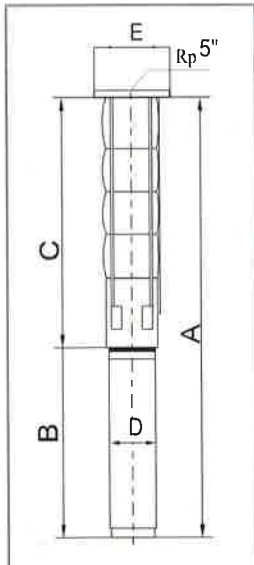
PERFORMANCE CURVE - GP 95





PERFORMANCE CURVE - GP 95

Dimension, Weight & Performance Table



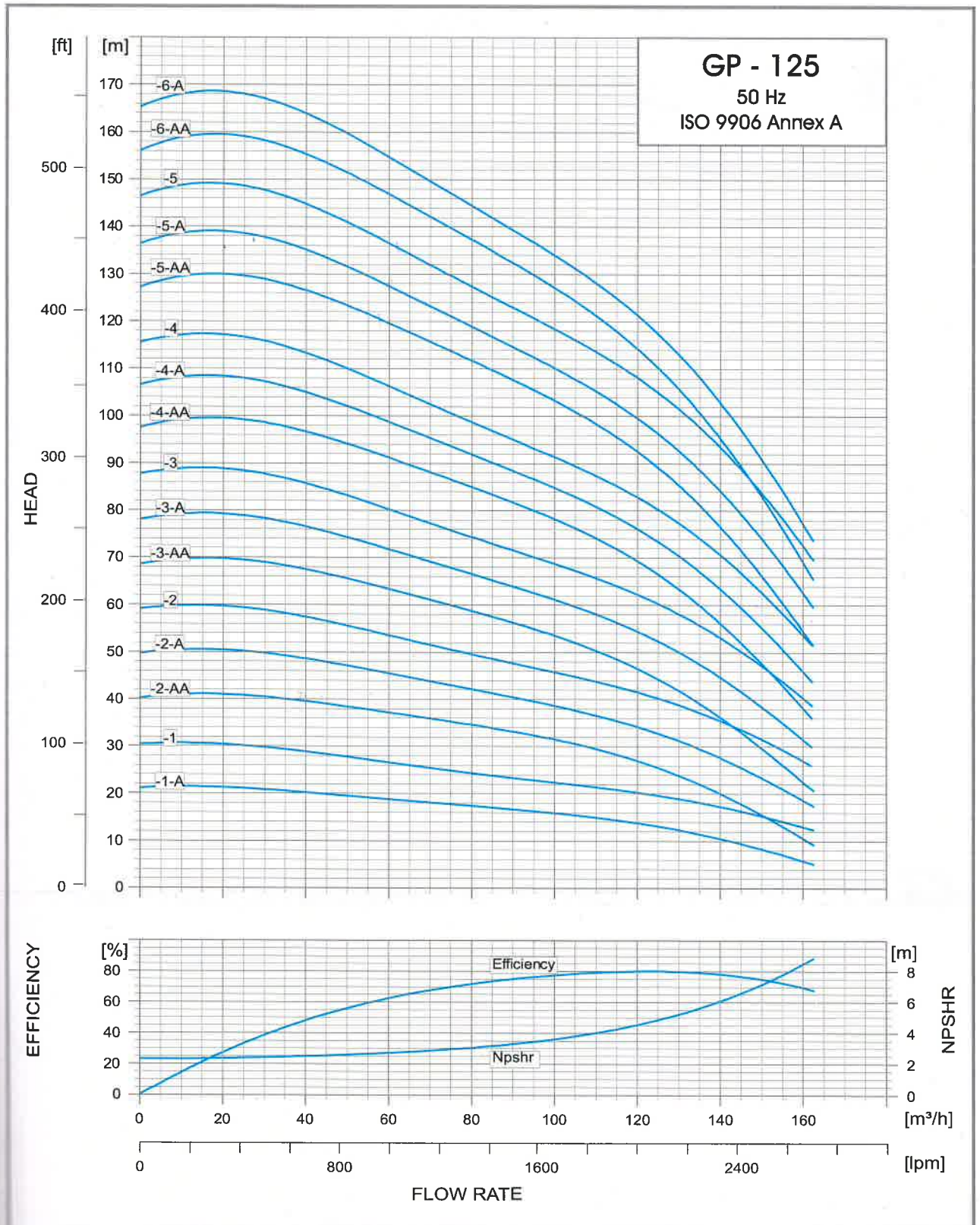
Model - Stage	n-2950 RPM	Discharges (Q)									Dimensions in (mm)				Pump
	m³ / hrs	0	20	40	60	80	90	100	110	120	Rp 5" Thread Connection				Net Weight In Kgs
	Ltr / Min.	0	333	667	1000	1333	1500	1667	1833	2000					
	Motor kw / HP	Total Head in Meters									C	A	D*	E**	
GP95- 1	5.5 / 7.5	23	21	18	15	13	12	10	9	6	618	1161	145	186	21
GP95- 2-BB	5.5 / 7.5	27	26	23	21	17	14	11	6	4	746	1289	145	186	24
GP95- 2-A	7.5 / 10	39	36	32	27	24	21	18	14	9	746	1320	145	186	24
GP95- 2	9.2 / 12.5	44	41	36	31	27	25	22	17	13	746	1320	145	186	24
GP95- 3-BB	9.2 / 12.5	49	46	40	35	29	25	20	16	8	874	1478	145	186	28
GP95- 3-B	11 / 15	56	53	47	41	35	31	26	20	13	874	1478	145	186	28
GP95- 3	13 / 17.5	65	62	55	47	42	38	33	27	20	874	1508	145	186	28
GP95- 4-B	15 / 20	77	73	65	56	49	44	37	29	20	1003	1667	145	186	31
GP95- 4	18.5 / 25	86	82	73	63	55	51	44	36	26	1003	1701	145	186	31
GP95- 5-AB	18.5 / 25	94	89	79	69	60	54	45	35	24	1131	1885	145	186	35
GP95- 5	22 / 30	106	101	90	78	69	63	55	44	32	1131	1885	145	186	35
GP95- 6	26 / 35	129	123	110	96	84	77	68	55	41	1259	2071	145	186	38
GP95- 7	30 / 40	148	142	126	110	96	88	77	62	46	1387	2261	145	186	42
GP95- 8	37 / 50	170	163	145	127	112	102	90	73	54	1515	2655	188	186	46
GP95- 9	45 / 60	189	182	162	141	124	114	99	80	59	1643	2783	188	186	49
GP95- 10	45 / 60	214	206	185	162	143	132	116	95	71	1771	2911	188	186	53
GP95- 11	55 / 75	237	228	205	179	158	146	129	106	79	1914	3054	188	186	57
GP95- 12	55 / 75	257	248	222	195	172	158	140	115	86	2043	3273	188	186	60
GP95- 13	55 / 75	278	267	240	210	185	170	150	123	92	2172	3512	188	186	64
GP95- 14	63 / 85	300	289	259	227	201	185	163	134	100	2300	3640	188	186	68
GP95- 15	75 / 100	321	310	278	244	215	198	175	144	107	2429	3769	188	186	72
GP95- 16	75 / 100	342	329	296	259	229	211	186	152	114	2557	4047	188	186	76
GP95- 17	75 / 100	362	349	313	275	242	223	196	160	120	2685	4175	188	186	80
GP95- 18	92 / 125	382	369	331	290	255	235	206	169	125	2814	4304	188	186	84
GP95- 19	92 / 125	402	388	348	305	269	247	216	177	131	3236	4796	188	186	88
GP95- 20	92 / 125	423	407	365	320	281	258	226	184	137	3620	5360	188	186	100

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.



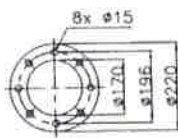
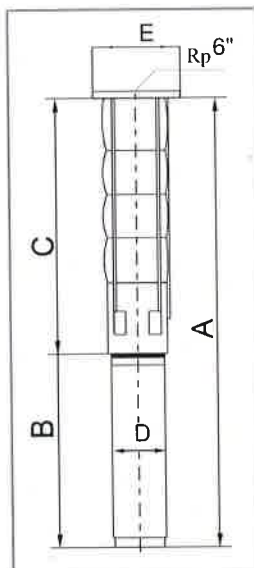
PERFORMANCE CURVE - GP 125





PERFORMANCE CURVE - GP 125

Dimension, Weight & Performance Table



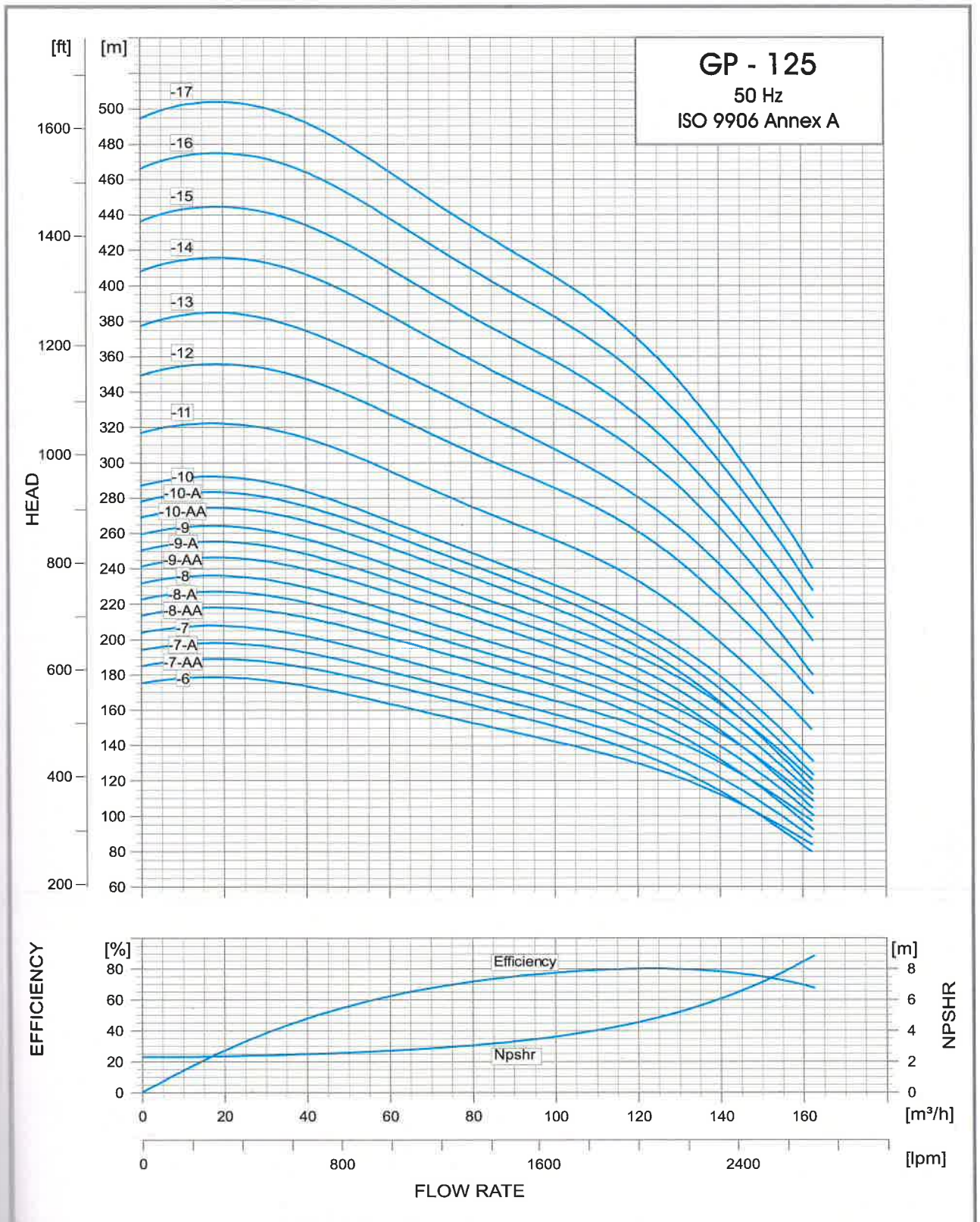
Model - Stage	n-2950 RPM	Discharges (Q)										Dimensions in (mm)				Pump
	m ³ / hrs	0	70	90	110	120	130	140	150	160	Rp 6" Thread Connection				Net Weight In Kgs	
	Ltr / Min.	0			1833	2000	2167	2333	2500	2667						
	Motor kw / HP	Total Head in Meters										C	A	D*		E**
GP 125-1A	7.5 / 10	21	18	17	15	14	12	10	8	6	651	1225	145	218	27	
GP 125-1	11 / 15	30	25	23	21	20	19	17	15	13	651	1286	145	218	27	
GP 125-2AA	13 / 17.5	40	36	33	29	27	24	20	16	11	807	1471	145	218	33	
GP 125-2A	18.5 / 25	50	44	40	37	34	31	28	23	19	807	1561	145	218	33	
GP 125-2	22 / 30	59	52	48	44	42	39	35	32	27	807	1619	145	218	33	
GP 125-3AA	22 / 30	69	61	56	50	47	42	36	30	22	963	1775	145	218	39	
GP 125-3A	26 / 35	78	69	64	58	54	50	45	38	31	963	1837	145	218	39	
GP 125-3	30 / 40	88	77	72	66	62	58	53	47	40	963	1907	145	218	39	
GP 125-4AA	37 / 50	98	88	82	74	69	63	56	48	38	1119	2259	188	218	45	
GP 125-4A	37 / 50	107	95	88	81	76	70	63	55	46	1119	2259	188	218	45	
GP 125-4	37 / 50	116	102	95	87	83	77	71	63	54	1119	2259	188	218	45	
GP 125-5AA	45 / 60	127	116	108	98	93	85	77	66	54	1275	2505	188	218	51	
GP 125-5A	45 / 60	136	123	115	105	100	93	84	74	63	1275	2505	188	218	51	
GP 125-5	55 / 75	146	132	123	114	108	102	93	84	72	1275	2615	188	218	51	
GP 125-6AA	55 / 75	156	142	132	121	114	106	95	83	69	1431	2771	188	218	57	
GP 125-6A	55 / 75	165	150	139	1238	121	113	103	91	77	1431	2771	188	218	57	
GP 125-6	63 / 85	175	158	147	136	130	122	1123	100	87	1431	2901	188	218	57	
GP 125-7AA	63 / 85	185	168	157	144	136	126	114	100	83	1587	3057	188	218	63	
GP 125-7A	63 / 85	194	176	164	151	143	133	122	107	92	1587	3057	188	218	63	
GP 125-7	75 / 100	204	184	172	159	151	142	130	117	101	1587	3147	188	218	63	
GP 125-8AA	75 / 100	214	194	181	166	157	146	132	116	97	1743	3303	188	218	70	
GP 125-8A	75 / 100	223	202	188	173	164	153	139	123	105	1743	3303	188	218	70	
GP 125-8	75 / 100	232	209	195	180	171	160	147	131	113	1743	3303	188	218	70	
GP 125-9AA	92 / 125	241	219	204	187	177	164	149	130	110	1899	3639	188	218	76	
GP 125-9A	92 / 125	250	226	211	194	184	171	156	138	117	1899	3639	188	218	76	
GP 125-9	92 / 125	260	234	218	201	191	178	163	146	125	1899	3639	188	218	76	
GP 125-10AA	92 / 125	269	244	227	208	196	182	165	144	121	2055	3795	188	218	82	
GP 125-10A	92 / 125	278	251	233	214	203	189	172	152	129	2055	3795	188	218	82	
GP 125-10	92 / 125	287	258	240	221	210	196	179	159	137	2055	3795	188	218	82	

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.

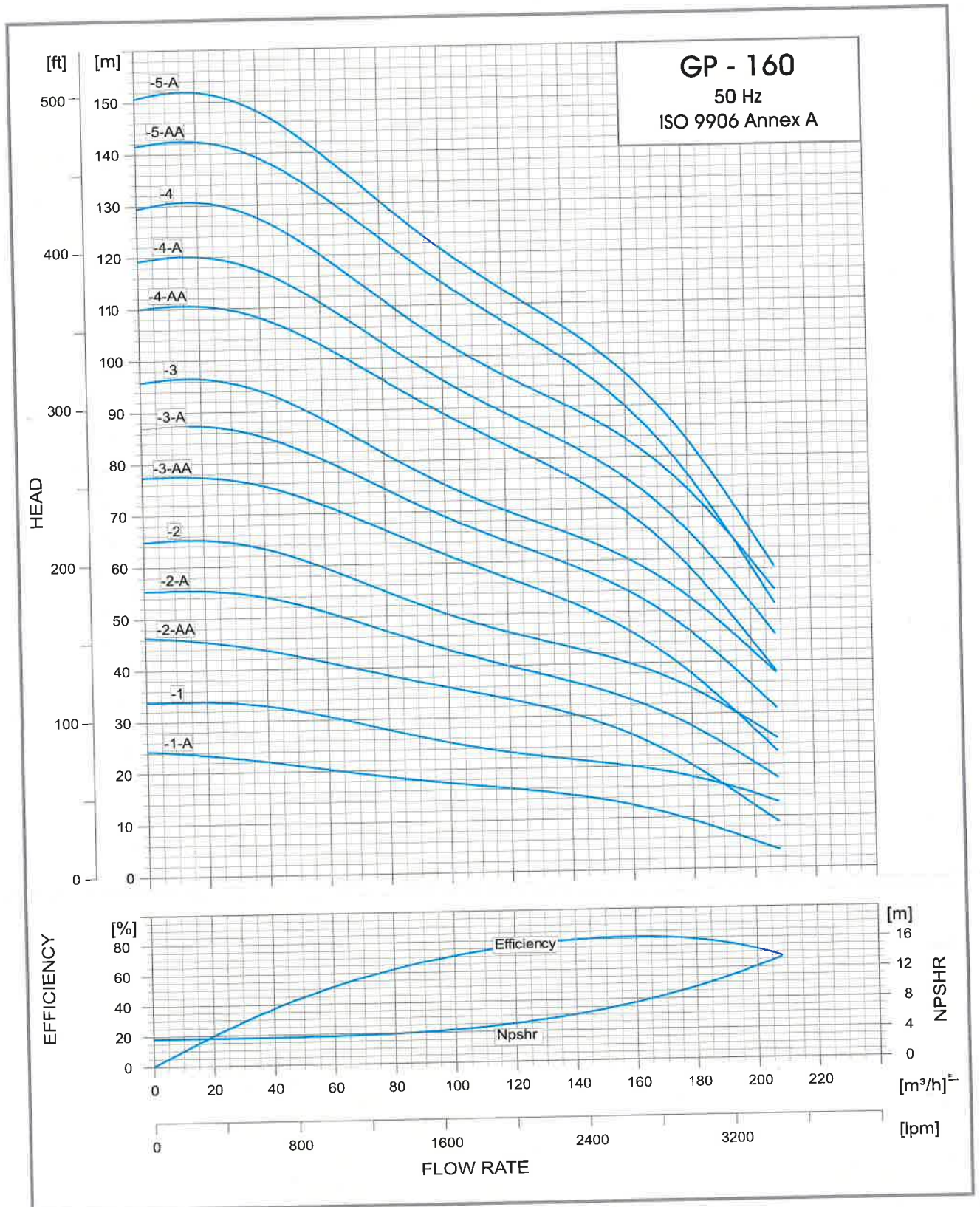


PERFORMANCE CURVE - GP 125



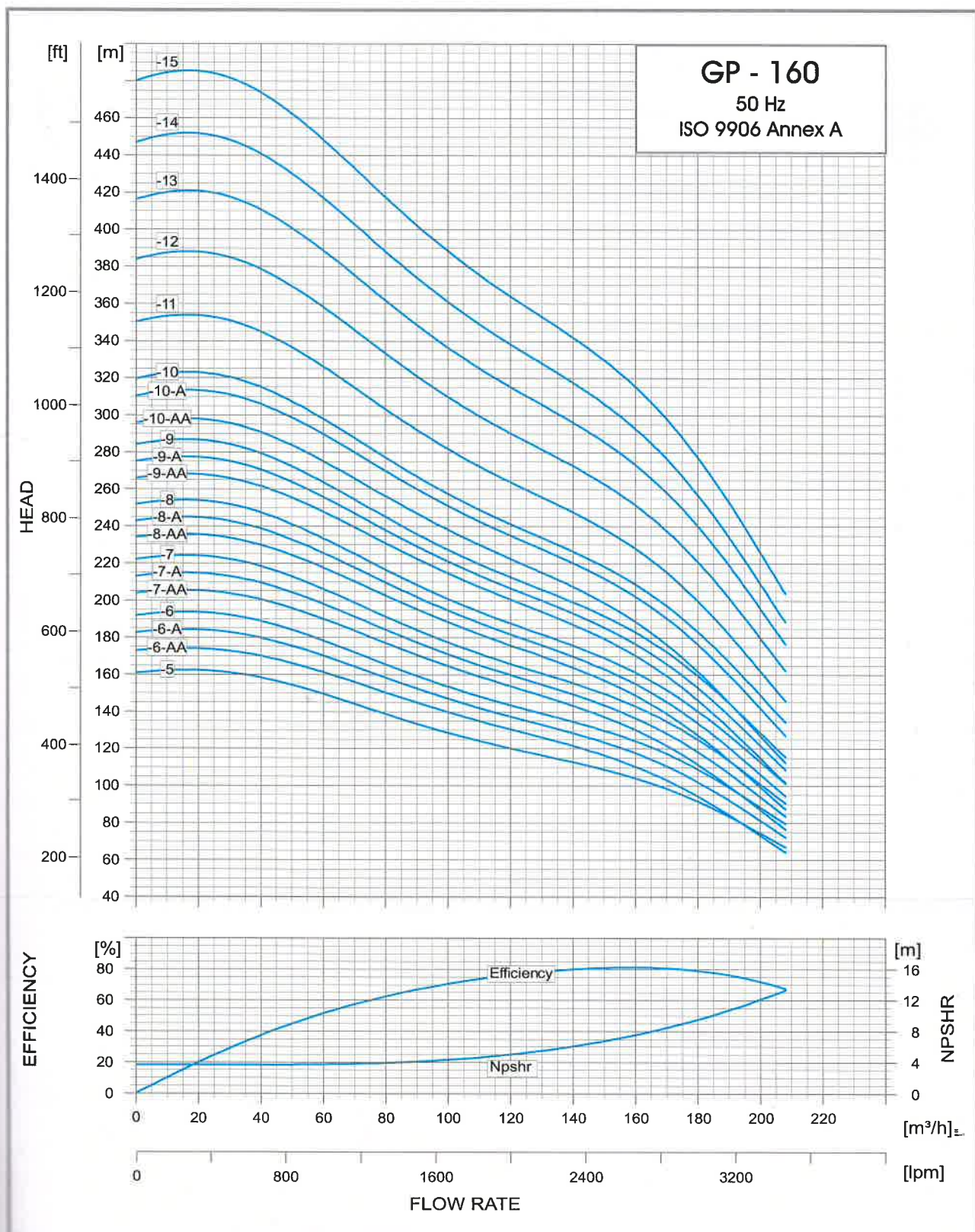


PERFORMANCE CURVE - GP 160





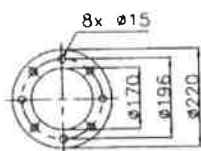
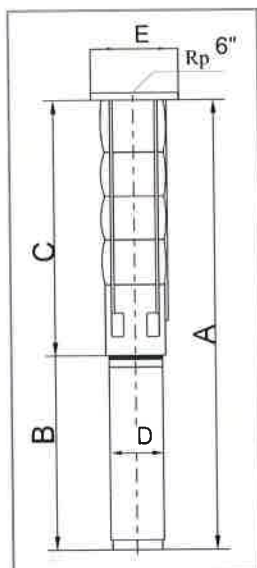
PERFORMANCE CURVE - GP 160





PERFORMANCE CURVE - GP 160

Dimension, Weight & Performance Table



Model - Stage	n-2950 RPM	Discharges (Q)										Dimensions in (mm)				Pump
	m³ / hrs	0	100	120	150	160	170	180	190	200	Rp 6" Thread Connection				Net Weight In Kgs	
	Ltr / Min.	0	1667	2000	2500	2667	2833	3000	3167	3333						
	Motor kw / HP	Total Head in Meters										C	A	D*	E**	
GP 160-1A	7.5 / 10	24	17	16	14	13	11	9	7	5	651	1371	145	218	27	
GP 160-1	13 / 17.5	34	25	23	21	20	19	18	16	14	651	1315	145	218	27	
GP 160-2AA	18.5 / 25	46	36	33	29	26	23	20	16	12	807	1561	145	218	33	
GP 160-2A	22 / 30	55	43	40	35	33	31	28	24	20	807	1619	145	218	33	
GP 160-2	26 / 35	65	50	46	42	40	38	35	32	28	807	1681	145	218	33	
GP 160-3AA	30 / 40	77	62	57	49	46	42	38	33	27	963	1907	145	218	39	
GP 160-3A	30 / 40	87	69	64	57	54	50	46	41	35	963	1907	145	218	39	
GP 160-3	37 / 50	96	75	70	63	60	57	53	48	42	963	1907	145	218	39	
GP 160-4AA	45 / 60	110	89	83	73	69	64	58	52	44	1119	2349	188	218	45	
GP 160-4A	45 / 60	119	95	89	80	76	71	65	59	51	1119	2349	188	218	45	
GP 160-4	55 / 75	129	103	96	87	83	79	74	67	60	1119	2459	188	218	45	
GP 160-5AA	55 / 75	142	114	107	95	90	84	76	68	59	1275	2615	188	218	51	
GP 160-5A	55 / 75	151	121	113	101	96	90	83	75	66	1275	2615	188	218	51	
GP 160-5	63 / 85	161	129	120	109	96	98	91	83	74	1275	2615	188	218	51	
GP 160-6AA	63 / 85	173	140	131	116	110	103	94	84	73	1431	2771	188	218	57	
GP 160-6A	75 / 100	183	147	137	123	118	111	102	92	81	1431	2991	188	218	57	
GP 160-6	75 / 100	192	154	144	130	124	117	109	99	88	1431	2991	188	218	57	
GP 160-7AA	75 / 100	204	165	154	137	130	122	112	100	87	1587	3147	188	218	63	
GP 160-7A	92 / 125	213	171	160	144	137	128	118	107	94	1587	3327	188	218	63	
GP 160-7	92 / 125	222	177	166	150	143	135	125	113	101	1587	3327	188	218	63	
GP 160-8AA	92 / 125	234	18	176	157	149	139	127	114	99	1743	3483	188	218	70	
GP 160-8A	92 / 125	243	195	182	163	155	145	134	121	106	1743	3483	188	218	70	
GP 160-8	92 / 125	252	201	188	169	161	152	140	127	113	1743	3483	188	218	70	
GP 160-9AA	110 / 150	266	215	201	179	170	159	146	131	115	1899	3589	188	218	76	
GP 160-9A	110 / 150	245	221	207	186	177	166	153	138	122	1899	3589	188	218	76	
GP 160-9	110 / 150	284	227	213	192	183	172	160	145	129	1899	3589	188	218	76	

* Motor type / size may change as per requirement.

** Maximum diameter of pump with two cable guard.



V3 Submersible Pumpset (68 MM & 74 MM)

Grund brand makes highly efficient durable and best Quality V3 submersible pumpset with water filled motors. Available on both outer diameter of 68mm & 74mm.



SALIENT FEATURES

1. Fully stainless steel stator tube.
2. All the diffusers and impellers are glass filled engineer polymer with stainless steel wear rings.
3. Rotor supply with Epoxy paint for long life and corrosion free.
4. Dynamically balance rotor which give noise less & vibration free operation.
5. Light weight & Easy to operate in wide voltage band.
6. All parts machined on CNC to set consistent Quality performance.
7. Rotor are grinded & burnished to give better surface finish value which ensure long life.
8. Can be installed with HDPE/ uPVC Pipes.
9. Start Easily at low voltage.
10. All hardware are stainless steel
11. All rubber parts are which NBR

APPLICATION

1. Domestic water supply-Apartment, Building & Hotel
2. Fountains, Canals & Rivers.
3. Solar Application
4. Domestic water supply.
5. Fire Fighting System.
6. Unshaped and crossed borewell.
7. Replace of hand pump.

MATERIAL OF CONSTRUCTION

MOTOR

Motor Shaft	: Stainless Steel AISI 410
Casting Part	: CI FG 200
Thrust Bearing	: Tilting pad self alignment carbon S/S
Winding Wire	: Multi layer polyester insulated
Copper	: E.C. grade (99.9%)

PUMP

Bowl& Impeller	: Glass Filled engineered polymer.
Suction& NRV	: CI FG 200 grade.
Pump Shaft	: Stainless Steel AISI 410
Pump casing	: Stainless Steel
All Hardware	: Stainless Steel AISI 304

TECHNICAL SPECIFICATION

Head Range	: 6 To 109 Meter.
Discharge Range	: 10 to 90 LPM.
Motor Rating	: 0.5HP to 1.5HP, 220V, 50Hz, AC Supply
Voltage Range	: 140V to 240V



V3 (75MM) 3" SUBMERSIBLE PUMPSETS

35 LPM MAX.O.D : 68 MM.

OUTLET SIZE : 25 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	0.6	1.2	1.8	2.1	2.4	3.0	3.6
				LPM	10	20	30	35	40	50	60
HPRS3/35/8	8	0.5	0.37	TOTAL HEAD IN METERS	30	27	24	24	20	16	11
HPRS3/35/12	12	0.75	0.55		45	41	36	36	30	24	17
HPRS3/35/16	16	1.0	0.75		60	54	48	48	40	32	22
HPRS3/35/20	20	1.25	0.93		75	68	60	60	50	40	28
HPRS3/35/24	24	1.5	1.1		90	82	72	66	60	48	34

40 LPM MAX.O.D : 68 MM.

OUTLET SIZE : 25 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	0.6	1.2	1.8	2.4	3.0	3.6	4.2
				LPM	10	20	30	40	50	60	70
HPRS3/4/7	7	0.5	0.37	TOTAL HEAD IN METERS	26	25	23	21	19	15	11
HPRS3/4/10	10	0.75	0.55		37	35	33	30	27	22	16
HPRS3/4/12	12	1.0	0.75		44	42	40	36	32	26	19
HPRS3/4/15	15	1.25	0.93		56	53	50	45	40	33	24
HPRS3/4/20	20	1.5	1.1		74	70	66	60	53	44	32

50 LPM MAX.O.D : 68 MM.

OUTLET SIZE : 25 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	1.2	1.8	2.4	3.0	3.6	4.2	4.8
				LPM	20	30	40	50	60	70	80
HPRS3/5/6	6	0.5	0.37	TOTAL HEAD IN METERS	22	21	20	18	16	13	10
HPRS3/5/8	8	0.75	0.55		30	28	26	24	21	18	14
HPRS3/5/10	10	1.0	0.75		37	35	33	30	27	22	17
HPRS3/5/12	12	1.25	0.93		44	42	40	36	32	26	20
HPRS3/5/15	15	1.5	1.1		56	53	50	45	40	33	26

40 LPM MAX.O.D : 74 MM.

OUTLET SIZE : 25 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	0.6	1.2	1.8	2.4	3.0	3.6	4.2
				LPM	10	20	30	40	50	60	70
HPR3/4/10	10	0.5	0.37	TOTAL HEAD IN METERS	39	36	32	26	20	14	8
HPR3/4/15	15	0.75	0.55		59	54	47	39	30	21	12
HPR3/4/17	17	1.0	0.75		66	61	54	44	34	24	14
HPR3/4/20	20	1.0	0.75		78	72	63	52	40	28	16
HPR3/4/24	24	1.25	0.93		94	86	76	62	48	34	19
HPR3/4/26	26	1.5	1.1		101	94	82	68	52	36	21
HPR3/4/28	28	1.5	1.1		109	101	88	73	56	39	22

50 LPM MAX.O.D : 74 MM.

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	1.2	1.8	2.4	3.0	3.6	4.2	4.8
				LPM	20	30	40	50	60	70	80
HPR3/5/7	7	0.5	0.37	TOTAL HEAD IN METERS	27	26	23	20	16	12	8
HPR3/5/10	10	0.75	0.55		39	37	34	29	24	18	11
HPR3/5/12	12	1.0	0.75		47	44	40	35	28	21	13
HPR3/5/15	15	1.25	0.93		59	56	50	44	35	26	17
HPR3/5/20	20	1.5	1.1		78	74	67	58	47	35	22

60 LPM MAX.O.D : 74 MM.

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	1.8	2.4	3.0	3.6	4.2	4.8	5.4
				LPM	30	40	50	60	70	80	90
HPR3/6/6	6	0.5	0.37	TOTAL HEAD IN METERS	25	24	22	19	16	13	10
HPR3/6/8	8	0.75	0.55		34	32	29	25	21	17	13
HPR3/6/10	10	1.0	0.75		42	40	36	32	27	22	16
HPR3/6/12	12	1.25	0.93		50	48	43	38	32	26	19
HPR3/6/15	15	1.5	1.1		63	60	54	47	40	32	24



Submersible Pumpset

Grund brand makes highly efficient best Quality water filled submersible pumpset.



SALIENT FEATURES

1. International NEMA spline coupling.
2. Thrust Bearing used with resins impregnated carbon v/s SS segments to ensure thrust load.
3. Impeller & Diffusers are used with glass filled engineering polymer with stainless steel wear rings.
4. Specially design for low voltage application.
5. Rotors are dynamically balance to minimise noise & vibration.
6. Pump & motors are in fully stainless steel design.
7. Rotor are painted with special epoxy paint for long life.
8. All sleeves are hard chrome plated to ensure the long life in sandy condition.
9. All the pumps are supply with guide bush at suction end along with sand protection.
10. NRV provided for reduce the back flow.

APPLICATION

1. Domestic water supply.
2. Industrial.
3. Agriculture.
4. Solar pumping system.
5. Fountains, Garden.

MATERIAL OF CONSTRUCTION

MOTOR

Motor Shaft	: Stainless steel AISI 410 / AISI 431.
Casting Part	: Cast Iron FG 200 grade.
Thrust Bearing	: Carbon v/s stainless steel
Clamping	: Silicon steel.
Copper	: EC Grade 99.9%

PUMP

Impeller & Diffuser	: Glass Filled engineered polymer.
Pump Shaft	: Fully Stainless Steel AISI 410
Suction Housing	: Cast Iron FG 200 grade with leaded bronze guide bush.
NRV	: Cast Iron FG 200
Sleeve	: AISI 410 with hard chrome plating

TECHNICAL SPECIFICATION

Head Range	: 4 to 335 meter
Discharge Range	: 10 to 480 LPM
Motor Rating	: 0.5HP to 5.0HP in Single Phase - 230V, 50Hz, AC Supply 0.5HP to 7.5HP in Three Phase - 380V / 415V, 50Hz, AC Supply
Voltage Range	: 150V to 250V (1 Phase) 200V to 440V (3 Phase)



V4 (100MM) 4" SUBMERSIBLE PUMPSETS

25 LPM

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE					
		H.P	kW	M ³ /hr LPM	0.3	0.9	1.5	2.1	2.7
HPR4/25/8	8	0.5	0.37	TOTAL HEAD IN METERS	54	48	40	32	20
HPR4/25/14	14	0.75	0.55		95	84	71	55	36
HPR4/25/16	16	1.0	0.75		108	96	81	63	41
HPR4/25/18	18	1.0	0.75		122	108	91	71	46
HPR4/25/22	22	1.5	1.1		149	132	111	87	56
HPR4/25/24	24	1.5	1.1		162	144	121	95	61
HPR4/25/26	26	1.5	1.1		176	156	131	103	66
HPR4/25/30	30	2.0	1.5		203	180	152	119	77
HPR4/25/32	32	2.0	1.5		216	192	162	126	82
HPR4/25/46	46	3.0	2.2		311	276	232	182	117

30 LPM

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE					
		H.P	kW	M ³ /hr LPM	0.6	1.2	1.8	2.4	3.0
HPR4/3/7	7	0.5	0.37	TOTAL HEAD IN METERS	50	45	37	27	14
HPR4/3/12	12	0.75	0.55		86	77	64	46	24
HPR4/3/14	14	1.0	0.75		101	90	74	53	28
HPR4/3/15	15	1.0	0.75		108	96	80	57	30
HPR4/3/20	20	1.5	1.1		144	128	106	76	40
HPR4/3/24	24	1.5	1.1		173	154	127	91	48
HPR4/3/26	26	1.5	1.1		187	166	138	99	52
HPR4/3/28	28	2.0	1.5		202	179	148	106	56
HPR4/3/30	30	2.0	1.5		216	192	159	114	60
HPR4/3/38	38	3.0	2.2		274	243	201	144	76
HPR4/3/42	42	3.0	2.2		302	269	223	160	84

35 LPM

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE					
		H.P	kW	M ³ /hr LPM	0.9	1.5	2.1	2.7	3.3
HPR4/35/5	5	0.5	0.37	TOTAL HEAD IN METERS	38	33	27	21	13
HPR4/35/10	10	0.75	0.55		75	67	54	41	25
HPR4/35/12	12	1.0	0.75		90	80	65	49	30
HPR4/35/14	14	1.5	1.1		105	93	76	57	35
HPR4/35/17	17	1.5	1.1		128	113	92	70	43
HPR4/35/20	20	2.0	1.5		150	133	108	82	50
HPR4/35/24	24	2.0	1.5		180	160	130	98	60
HPR4/35/26	26	2.0	1.5		195	173	140	107	65
HPR4/35/28	28	3.0	2.2		210	186	151	115	70
HPR4/35/30	30	3.0	2.2		225	200	162	123	75
HPR4/35/32	32	3.0	2.2		240	213	173	131	80

50 LPM

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M³/hr	0.6	1.8	2.4	3.0	3.6	4.2	5.4
				LPM	10	30	40	50	60	70	90
HPR4/5/6	6	0.50	0.37	TOTAL HEAD IN METERS	43	38	35	32	28	24	14
HPR4/5/8	8	0.75	0.55		57	50	47	42	38	32	18
HPR4/5/10	10	1.0	0.75		71	63	59	53	47	40	23
HPR4/5/15	15	1.5	1.1		107	95	88	80	71	60	35
HPR4/5/20	20	2.0	1.5		142	126	117	106	94	80	46
HPR4/5/25	25	3.0	2.2		178	158	146	133	118	100	58
HPR4/5/32	32	4.0	3.0		227	202	187	170	150	128	74
HPR4/5/42	42	5.0	3.7		298	265	246	223	197	168	97
HPR4/5/45	45	5.0	3.7		320	284	263	239	212	180	104

Note - Titanium series also available with same performance (Tie rod design).



V4 (100MM) 4" SUBMERSIBLE PUMPSETS

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	1.8	2.4	3.0	3.6	4.2	4.8	5.4
				LPM	30	40	50	60	70	80	90
PR4/6/6	6	0.75	0.55	TOTAL HEAD IN METERS	44	42	38	34	28	23	16
PR4/6/8	8	1.0	0.75		59	56	51	45	38	30	22
PR4/6/10	10	1.5	1.1		74	70	64	56	47	38	27
PR4/6/12	12	1.5	1.1		89	84	77	67	56	46	32
PR4/6/15	15	2.0	1.5		111	105	96	84	71	57	41
PR4/6/18	18	3.0	2.2		133	126	115	101	85	68	49
PR4/6/20	20	3.0	2.2		148	140	128	112	94	76	54
PR4/6/22	22	3.0	2.2		163	154	141	123	103	84	59
PR4/6/24	24	3.0	2.2		178	168	154	134	113	91	65
PR4/6/30	30	4.0	3.0		222	210	192	168	141	114	81
PR4/6/38	38	5.0	3.7		281	266	243	213	179	144	103

OUTLET SIZE : 38 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	2.4	3.0	3.6	4.2	4.8	5.4	6.0
				LPM	40	50	60	70	80	90	100
PR4/7/5	5	0.75	0.55	TOTAL HEAD IN METERS	34	31	29	26	23	19	16
PR4/7/6	6	1.0	0.75		40	38	35	31	27	23	19
PR4/7/8	8	1.5	1.1		54	50	46	41	36	30	25
PR4/7/11	11	1.5	1.1		74	69	63	57	50	42	34
PR4/7/12	12	2.0	1.5		80	75	69	62	54	46	37
PR4/7/15	15	2.0	1.5		101	94	86	77	68	57	47
PR4/7/17	17	3.0	2.2		114	106	98	88	77	65	53
PR4/7/19	19	3.0	2.2		127	119	109	98	86	72	59
PR4/7/23	23	3.0	2.2		154	144	132	118	104	87	71
PR4/7/26	26	4.0	3.0		174	163	150	134	117	99	81
PR4/7/28	28	4.0	3.0		188	175	161	144	126	106	87
PR4/7/30	30	5.0	3.7		201	188	173	155	135	114	93
PR4/7/32	32	5.0	3.7		214	200	184	165	144	122	99
PR4/7/36	36	5.0	3.7		241	225	207	185	162	137	112
PR4/7/42	42	6.0	4.5		281	263	242	216	189	160	130
PR4/7/50	50	7.5	5.5		335	313	288	258	225	190	155

OUTLET SIZE : 38 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	3.0	4.8	6.0	7.2	8.4	9.6	11.4
				LPM	50	80	100	120	140	160	190
PR12/5	5	1.0	0.75	TOTAL HEAD IN METERS	33	30	28	25	22	18	11
PR12/7	7	1.5	1.1		46	42	39	35	30	25	15
PR12/10	10	2.0	1.5		65	60	56	50	44	35	21
PR12/12	12	3.0	2.2		78	72	67	60	52	42	25
PR12/15	15	3.0	2.2		98	90	84	75	65	53	32
PR12/19	19	4.0	3.0		124	114	106	95	83	67	40
PR12/22	22	5.0	3.7		143	132	123	110	96	77	46
PR12/25	25	5.0	3.7		163	150	140	125	109	88	53
PR12/30	30	6.0	4.5		195	180	168	150	131	105	63
PR12/35	35	7.5	5.5		228	210	196	175	152	123	74

Terium series also available with same performance (Tie rod design).



V4 (100MM) 4" SUBMERSIBLE PUMPSETS

170 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	6.6	7.8	9.0	10.2	11.4	12.6	13.8
				LPM	110	130	150	170	190	210	230
HPR4/17/6	6	1.5	1.1	TOTAL HEAD IN METERS	30	28	25	22	18	14	11
HPR4/17/8	8	2.0	1.5		40	37	33	29	24	19	15
HPR4/17/10	10	3.0	2.2		50	46	41	36	30	24	19
HPR4/17/12	12	3.0	2.2		60	55	49	43	36	29	23
HPR4/17/16	16	4.0	3.0		80	74	66	58	48	38	30
HPR4/17/20	20	5.0	3.7		100	92	82	72	60	48	38
HPR4/17/24	24	6.0	4.5		120	110	98	86	72	58	46
HPR4/17/30	30	7.5	5.5		150	138	123	108	90	72	57

300 LPM

OUTLET SIZE : 65 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	9.0	12.0	15.0	18.0	21.0	24.0	27.0
				LPM	150	200	250	300	350	400	450
HPM4/30/5	5	2.0	1.5	TOTAL HEAD IN METERS	23	20	18	15	12	8	4
HPM4/30/7	7	3.0	2.2		32	28	25	21	16	11	6
HPM4/30/8	8	3.0	2.2		36	32	29	24	18	12	7
HPM4/30/9	9	3.0	2.2		41	36	32	27	21	14	8
HPM4/30/11	11	4.0	3.0		50	45	40	32	25	17	9
HPM4/30/13	13	5.0	3.7		59	53	47	38	30	20	11
HPM4/30/14	14	5.0	3.7		63	57	50	41	32	22	12
HPM4/30/16	16	6.0	4.5		72	65	58	47	37	25	14
HPM4/30/20	20	7.5	5.5		90	81	72	59	46	31	17

330 LPM

OUTLET SIZE : 65 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	10.8	13.8	16.8	19.8	22.8	25.8	28.8
				LPM	180	230	280	330	380	430	480
HPM4/33/5	5	2.0	1.5	TOTAL HEAD IN METERS	24	22	20	17	14	11	7
HPM4/33/7	7	3.0	2.2		33	30	27	24	20	15	9
HPM4/33/9	9	4.0	3.0		42	39	35	31	25	19	12
HPM4/33/11	11	5.0	3.7		52	48	43	37	31	23	14
HPM4/33/14	14	6.0	4.5		66	61	55	48	39	29	18
HPM4/33/17	17	7.5	5.5		80	74	66	58	48	36	22

Note - Titanium series also available with same performance (Tie rod design).



V5 Submersible Pumpset

Grund brand makes highly efficient durable and best Quality V5 submersible pumpset with water filled submersible motors.



SALIENT FEATURES

1. High efficient investment casting process diffusers are use with AISI 304 Material.
2. All the rotating parts are balance in precision grade to reduce vibration & noise..
3. All guide bushes are protected with sand guards.
4. Upper thrust provision provided in each model.
5. Pumps are provided with suction guide support.
6. Bearing sleeves are provided with hard chrome plating.
7. Carbon V/S Stainless steel thrust bearing are provided to withstand high thrust load.
8. Pumps are Design for maximum water discharge.
9. Winding wires are wrapped with superior polymer to withstand wide voltage fluctuation.
10. Rotors are painted with special epoxy paint for long life.

APPLICATION

1. Irrigation/Sprinkler
2. Commodity water supply.
3. Industrial
4. High rise buildings
5. Sprinklers
6. Unshaped and crooked 6" borehole

MATERIAL OF CONSTRUCTION

MOTOR

Motor Shaft	: Fully Stainless steel AISI 410.
Stamping	: Silicon steel.
Casting Part	: Cast Iron FG 200 grade.
Thrust Bearing	: Carbon v/s Stainless Steel.
Copper	: EC grade min 99.90%.

PUMP

Diffuser	: AISI 304 Investment Casting
Impeller	: Stainless Steel AISI 410
Suction Housing	: Cast Iron FG 200 grade.
Pump Shaft	: Fully Stainless Steel AISI 410
Sleeve	: AISI 410 with hard chrome plating.

TECHNICAL SPECIFICATION

Head Range	: 24 to 268 meter
Discharge Range	: 60 to 420 LPM
Motor Rating	: 3.0 HP to 15.0 HP in three phase. - 380V /415V, 50Hz, AC Supply 3.0 HP to 5.0 HP in single phase. - 230V, 50Hz, AC Supply
Voltage Range	: 160V to 250V (1 Phase) 200V to 440V (3 Phase)



V5 (125MM) (V6 SLIM) SUBMERSIBLE PUMPSETS

120 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	3.6	4.8	6.0	7.2	8.4	9.6	10.8
				LPM	60	80	100	120	140	160	180
HPRS55/12/10	10	5.0	3.7	TOTAL HEAD IN METERS	107	102	95	87	78	66	52
HPRS55/12/12	12	6.0	4.5		128	122	114	104	94	79	62
HPRS55/12/15	15	7.5	5.5		161	153	143	131	117	99	78
HPRS55/12/20	20	10.0	7.5		214	204	190	174	156	132	104
HPRS55/12/25	25	12.5	9.3		268	255	238	218	195	165	130

140 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	4.8	6.0	7.2	8.4	9.6	10.8	12.0
				LPM	80	100	120	140	160	180	200
HPRS56/14/8	8	5.0	3.7	TOTAL HEAD IN METERS	85	80	74	66	58	49	40
HPRS56/14/10	10	6.0	4.5		106	100	92	82	72	61	50
HPRS56/14/12	12	7.5	5.5		127	120	110	98	86	73	60
HPRS56/14/16	16	10.0	7.5		170	160	147	131	115	98	80
HPRS56/14/18	18	12.5	9.3		191	180	166	148	130	110	90
HPRS56/14/22	22	15.0	11.0		233	220	202	180	158	134	110
HPRS56/14/25	25	15.0	11.0		265	250	230	205	180	153	125

175 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	6.0	7.5	9.0	10.5	12.0	13.5	15.0
				LPM	100	125	150	175	200	225	250
HPRS58/17/6	6	5.0	3.7	TOTAL HEAD IN METERS	66	63	59	53	48	42	36
HPRS58/17/8	8	6.0	4.5		88	84	78	71	64	56	48
HPRS58/17/10	10	7.5	5.5		110	105	98	89	80	70	60
HPRS58/17/12	12	10.0	7.5		132	126	118	107	96	84	72
HPRS58/17/15	15	12.5	9.3		165	158	147	134	120	105	90
HPRS58/17/18	18	15.0	11.0		198	189	176	160	144	126	108

230 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	8.4	10.8	12.6	13.8	15.0	16.8	19.2
				LPM	140	180	210	230	250	280	320
HPRS510/23/5	5	5.0	3.7	TOTAL HEAD IN METERS	58	55	52	49	46	40	32
HPRS510/23/6	6	6.0	4.5		70	66	62	58	55	48	38
HPRS510/23/8	8	7.5	5.5		93	88	82	78	73	64	51
HPRS510/23/10	10	10.0	7.5		116	110	103	97	91	80	64
HPRS510/23/12	12	12.5	9.3		139	132	124	116	109	96	77
HPRS510/23/15	15	15.0	11.0		174	165	155	146	137	120	96

300 LPM

OUTLET SIZE : 50 MM / 65 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	10.8	13.2	15.6	18.0	20.4	22.8	25.2
				LPM	180	220	260	300	340	380	420
HPRS512/30/4	4	5.0	3.7	TOTAL HEAD IN METERS	46	43	40	36	32	28	24
HPRS512/30/5	5	6.0	4.5		57	54	50	46	41	36	30
HPRS512/30/6	6	7.5	5.5		68	65	60	55	49	43	36
HPRS512/30/8	8	10.0	7.5		91	86	80	73	65	57	48
HPRS512/30/10	10	12.5	9.3		114	108	100	91	81	71	60
HPRS512/30/12	12	15.0	11.0		137	130	120	109	97	85	72



V6 (50 FT) Submersible Pumpset



Grund brand makes highly efficient durable and best Quality V6 (50 ft.) high head submersible pumpset with water filled submersible motors.

SALIENT FEATURES

1. High efficient investment casting process diffusers are use with AISI 304 Material.
2. All the rotating parts are balance in precision grade to reduce vibration & noise.
3. All guide bushes are protected with sand guards.
4. Upper thrust provision provided in each model.
5. All pumps are provided with suction guide support.
6. All Bearing sleeves are provided with hard chrome plating.
7. Carbon V/S Stainless steel thrust bearing are provided to withstand high thrust load.
8. Pumps are Design for maximum water discharge.
9. Winding wires are wrapped with superior polymer to withstand wide voltage fluctuation.
10. Rotors are painted with special epoxy paint for long life.

APPLICATION

1. Irrigation/Sprinkler
2. Commodity water supply
3. Industrial
4. High rise buildings
5. Sprinklers

MATERIAL OF CONSTRUCTION

MOTOR

Motor Shaft	: Fully Stainless steel AISI 410.
Stamping	: Silicon steel.
Casting Part	: Cast Iron FG 200 grade.
Thrust Bearing	: Carbon v/s Stainless Steel.
Copper	: EC grade min 99.90%.

PUMP

Diffuser	: SS 304 Investment Casting
Pump Shaft	: Fully Stainless Steel AISI 410
Suction Housing	: Cast Iron FG 200 grade.
Impeller	: Stainless Steel AISI 410.
Sleeve	: AISI 410 with hard chrome plating.

TECHNICAL SPECIFICATION

Head Range	: 10 to 450 meter
Discharge Range	: 40 to 780 LPM
Motor Rating	: 3.0 HP to 30 HP in three phase. - 380V / 415 V, 50 Hz, AC Supply 3.0 HP to 5.0 HP in single phase. - 230V, 50Hz. AC Supply
Voltage Range	: 160V to 250V (1 Phase) 200V to 440V (3 Phase)



V6 (150MM) HIGH HEAD SUBMERSIBLE PUMPSETS

110 LPM

OUTLET SIZE :50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	2.4	4.2	5.4	6.6	7.8	9.0	10.8
				LPM	40	70	90	110	130	150	180
HPRS65/11/6	6	3.0	2.2	TOTAL HEAD IN METERS	85	83	81	77	69	57	37
HPRS65/11/10	10	5.0	3.7		142	138	135	128	115	95	61
HPRS65/11/12	12	6.0	4.5		170	166	162	154	138	114	73
HPRS65/11/15	15	7.5	5.5		213	207	203	192	173	143	92
HPRS65/11/20	20	10.0	7.5		284	276	270	256	230	190	122
HPRS65/11/24	24	12.5	9.3		341	331	324	307	276	228	146
HPRS65/11/30	30	15.0	11.0		426	414	405	384	345	285	183

150 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	4.5	6.0	7.5	9.0	10.5	12.0	13.5
				LPM	75	100	125	150	175	200	225
HPRS66/15/5	5	3.0	2.2	TOTAL HEAD IN METERS	75	72	67	60	53	45	37
HPRS66/15/8	8	5.0	3.7		120	115	106	96	84	72	59
HPRS66/15/10	10	6.0	4.5		150	144	133	120	105	90	74
HPRS66/15/12	12	7.5	5.5		180	173	160	144	126	108	89
HPRS66/15/16	16	10.0	7.5		240	230	213	192	168	144	118
HPRS66/15/20	20	12.5	9.3		300	288	266	240	210	180	148
HPRS66/15/24	24	15.0	11.0		360	346	319	288	252	216	178

200 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	6.6	9.6	10.8	12.0	13.2	14.4	17.4
				LPM	110	160	180	200	220	240	290
HPRS68/20/4	4	3.0	2.2	TOTAL HEAD IN METERS	60	56	52	48	44	39	24
HPRS68/20/6	6	5.0	3.7		90	83	79	73	66	59	37
HPRS68/20/8	8	6.0	4.5		120	111	105	97	88	78	49
HPRS68/20/10	10	7.5	5.5		150	139	131	121	110	98	61
HPRS68/20/12	12	10.0	7.5		180	167	157	145	132	118	73
HPRS68/20/15	15	12.5	9.3		225	209	197	182	165	147	92
HPRS68/20/18	18	15.0	11.0		270	250	236	218	198	176	110
HPRS68/20/21	21	17.5	13.0		315	292	275	254	231	206	128
HPRS68/20/24	24	20.0	15.0		360	334	314	290	264	235	146



V6 (150MM) HIGH HEAD SUBMERSIBLE PUMPSETS

250 LPM

OUTLET SIZE : 65MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	6.0	9.0	12.0	15.0	18.0	21.0	24.0
				LPM	100	150	200	250	300	350	400
HPRS610/25/3	3	3.0	2.2	TOTAL HEAD IN METERS	45	44	41	36	30	23	15
HPRS610/25/5	5	5.0	3.7		75	73	68	60	50	39	25
HPRS610/25/6	6	6.0	4.5		90	87	81	72	60	46	30
HPRS610/25/8	8	7.5	5.5		120	116	108	96	80	62	40
HPRS610/25/10	10	10.0	7.5		150	145	135	120	100	77	50
HPRS610/25/12	12	12.5	9.3		180	174	162	144	120	92	60
HPRS610/25/15	15	15.0	11.0		225	218	203	180	150	116	75
HPRS610/25/18	18	17.5	13.0		270	261	243	216	180	139	90
HPRS610/25/20	20	20.0	15.0		300	290	270	240	200	154	100
HPRS610/25/25	25	25.0	18.5		375	363	338	300	250	193	125
HPRS610/25/30	30	30.0	22.0		450	435	405	360	300	231	150

340 LPM

OUTLET SIZE : 65 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	12.0	15.6	18.0	20.4	22.8	25.2	28.8
				LPM	200	260	300	340	380	420	480
HPRS612/34/4	4	5.0	3.7	TOTAL HEAD IN METERS	59	56	53	49	44	38	28
HPRS612/34/5	5	6.0	4.5		74	70	67	61	55	48	35
HPRS612/34/6	6	7.5	5.5		88	84	80	73	66	57	42
HPRS612/34/8	8	10.0	7.5		118	112	106	98	88	76	56
HPRS612/34/10	10	12.5	9.3		147	140	133	122	110	95	70
HPRS612/34/12	12	15.0	11.0		176	168	160	146	132	114	84
HPRS612/34/14	14	17.5	13.0		206	196	186	171	154	133	98
HPRS612/34/16	16	20.0	15.0		235	224	213	195	176	152	112
HPRS612/34/20	20	25.0	18.5		294	280	266	244	220	190	140
HPRS612/34/24	24	30.0	22.0		353	336	319	293	264	228	168



V6 (150MM) HIGH HEAD SUBMERSIBLE PUMPSETS

410 LPM

OUTLET SIZE : 65 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr LPM	14.4	19.2	22.2	24.6	27.0	30.0	34.8
HPRS615/41/2	2	3.0	2.2	TOTAL HEAD IN METERS	240	320	370	410	450	500	580
HPRS615/41/3	3	5.0	3.7		30	28	26	24	21	17	10
HPRS615/41/4	4	6.0	4.5		45	42	39	35	32	26	15
HPRS615/41/5	5	7.5	5.5		60	56	52	47	42	34	20
HPRS615/41/7	7	10.0	7.5		75	70	65	59	53	43	25
HPRS615/41/8	8	12.5	9.3		105	98	90	83	74	60	35
HPRS615/41/10	10	15.0	11.0		120	112	103	94	84	68	40
HPRS615/41/12	12	17.5	13.0		150	140	129	118	105	85	50
HPRS615/41/13	13	20.0	15.0		180	168	155	142	126	102	60
HPRS615/41/17	17	25.0	18.5		195	182	168	153	137	111	65
HPRS615/41/20	20	30.0	22.0		255	238	219	201	179	145	85
					300	280	258	236	210	170	100

500 LPM

OUTLET SIZE : 65 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr LPM	13.8	19.8	24.0	30.0	36.0	40.2	46.2
HPRS620/50/3	3	6.0	4.5	TOTAL HEAD IN METERS	230	330	400	500	600	670	770
HPRS620/50/4	4	7.5	5.5		44	42	39	34	28	23	15
HPRS620/50/5	5	10.0	7.5		59	56	52	46	37	31	20
HPRS620/50/6	6	12.5	9.3		74	70	65	57	47	39	25
HPRS620/50/8	8	15.0	11.0		89	83	78	68	56	46	29
HPRS620/50/9	9	17.5	13.0		118	111	104	91	74	62	39
HPRS620/50/10	10	20.0	15.0		133	125	117	103	84	69	44
HPRS620/50/12	12	25.0	18.5		148	139	130	114	93	77	49
					178	167	156	137	112	92	59
HPRS620/50/15	15	30.0	22.0		222	209	195	171	140	116	74

550 LPM

OUTLET SIZE : 65 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr LPM	19.2	22.8	27.6	33.0	38.4	43.2	46.8
HPRS625/55/3	3	7.5	5.5	TOTAL HEAD IN METERS	320	380	460	550	640	720	780
HPRS625/55/4	4	10.0	7.5		46	44	41	36	29	22	15
HPRS625/55/5	5	12.5	9.3		61	59	55	48	39	29	20
HPRS625/55/6	6	15.0	11.0		76	74	69	60	49	36	25
HPRS625/55/8	8	20.0	15.0		91	89	83	72	58	43	30
HPRS625/55/9	9	25.0	18.5		122	118	110	96	78	58	40
HPRS625/55/10	10	25.0	18.5		137	133	124	108	87	65	45
HPRS625/55/12	12	30.0	22.0		152	148	138	120	97	72	50
					182	178	166	144	116	86	60



V6 (Radial) Submersible Pumpset



Grund brand makes highly efficient durable and best Quality V6 submersible pumpset with water filled submersible motors.

SALIENT FEATHERS

1. Robust construction to ensure durability of pumpset.
2. Winding wires are wrapped with superior polymer to withstand wide voltage fluctuation.
3. All the rotating parts are dynamically balance to reduce vibration & noise.
4. Carbon Bearing v/s Stainless Steel Segments are used to withstand high thrust load.
5. All guide bushes are protected with sand guards.
6. Bearing sleeves are provided with hard chrome plating for better life in sandy conditions.
7. Rotors are painted with special epoxy paint for long life.
8. NRV are provided for reduce back pressure.
9. Motors are also available in single phase and three phase design.
10. Motor design for wide voltage range.

APPLICATION

1. Sprinkler & drip Irrigation system.
2. Irrigation in farms.
3. Domestic & Industrial water supply.
4. Fire Fighting system.
5. Solar pumping system.

MATERIAL OF CONSTRUCTION

MOTOR

Motor Shaft	: Fully Stainless steel AISI 410.
Stamping	: Silicon steel.
Casting Part	: Cast Iron FG 200 grade.
Thrust Bearing	: Carbon v/s Stainless Steel.
Copper	: EC grade min 99.90%.

PUMP

Pump Shaft	: Fully Stainless Steel AISI 410
Suction Housing	: Cast Iron FG 200 grade.
Impeller	: Stainless Steel AISI 410/ Glass filled engineerign polymer
Diffuser	: Cast Iron FG 200 grade.
Sleeve	: AISI 410 with hard chrome plating.

TECHNICAL SPECIFICATION

Head Range	: A) Radial flow-13 to 245 meters B) Mix Flow- 9 to 216 meters
Discharge Range	: A) Radial flow- 70 to 450 LPM B) Mix Flow-200 to 1150 LPM
Motor Rating	: 3.0 HP to 30 HP in three phase, 380V / 415 V, 50Hz, AC Supply 3.0 HP to 5.0 HP in single phase, 230V / 50Hz AC Supply
Voltage Range	: 160V to 250V (1 Phase) 200V to 440V (3 Phase)



RADIAL FLOW

V6 (150MM) SUBMERSIBLE PUMPSETS

150 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	4.2	6.0	7.2	9.0	10.8	12.0	13.8
				LPM	70	100	120	150	180	200	230
HPRC64/15/8	8	3.0	2.2	TOTAL HEAD IN METERS	76	72	69	63	55	49	39
HPRC64/15/10	10	4.0	3.0		95	90	86	79	69	62	49
HPRC64/15/12	12	5.0	3.7		114	108	103	95	83	74	59
HPRC64/15/14	14	6.0	4.5		133	126	120	111	97	86	69
HPRC64/15/15	15	6.0	4.5		143	135	129	119	104	92	74
HPRC64/15/18	18	7.5	5.5		171	162	155	142	124	111	88
HPRC64/15/20	20	7.5	5.5		190	180	172	158	138	123	98
HPRC64/15/24	24	10.0	7.5		228	216	206	190	166	148	118

200 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	7.2	9.0	10.2	12.0	13.8	15.0	16.8
				LPM	120	150	170	200	230	250	280
HPRC65/20/4	4	3.0	2.2	TOTAL HEAD IN METERS	38	36	35	31	28	23	17
HPRC65/20/6	6	3.0	2.2		57	55	52	47	42	34	25
HPRC65/20/7	7	4.0	3.0		67	64	61	55	49	40	29
HPRC65/20/8	8	5.0	3.7		76	73	70	62	56	46	34
HPRC65/20/10	10	5.0	3.7		95	91	87	78	70	57	42
HPRC65/20/12	12	6.0	4.5		114	109	104	94	84	68	50
HPRC65/20/14	14	7.5	5.5		133	127	122	109	98	80	59
HPRC65/20/15	15	7.5	5.5		143	137	131	117	105	86	63
HPRC65/20/18	18	10.0	7.5		171	164	157	140	126	103	76
HPRC65/20/20	20	10.0	7.5		190	182	174	156	140	114	84
HPRC65/20/25	25	12.5	9.3		238	228	218	195	175	143	105

230 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	7.8	10.2	12.0	13.8	15.6	17.4	19.8
				LPM	130	170	200	230	260	290	330
HPRC66/23/4	4	3.0	2.2	TOTAL HEAD IN METERS	39	38	36	33	29	24	17
HPRC66/23/5	5	3.0	2.2		49	47	45	41	37	31	21
HPRC66/23/6	6	4.0	3.0		59	56	53	49	44	37	25
HPRC66/23/8	8	5.0	3.7		78	75	71	66	58	49	34
HPRC66/23/10	10	6.0	4.5		98	94	89	82	73	61	42
HPRC66/23/12	12	7.5	5.5		118	113	107	98	88	73	50
HPRC66/23/15	15	10.0	7.5		147	141	134	123	110	92	63
HPRC66/23/16	16	10.0	7.5		157	150	142	131	117	98	67
HPRC66/23/18	18	12.5	9.3		176	169	160	148	131	110	76
HPRC66/23/20	20	12.5	9.3		196	188	178	164	146	122	84
HPRC66/23/25	25	15.0	11.0		245	235	223	205	183	153	105

Note - TFRCH series also available with noryl impeller.



V6 (150MM) SUBMERSIBLE PUMPSETS - RADIAL

250 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	9.0	11.4	13.2	15.0	16.8	18.6	21.0
				LPM	150	190	220	250	280	310	350
HPRC67/25/4	4	3.0	2.2	TOTAL HEAD IN METERS	42	40	37	34	31	27	21
HPRC67/25/5	5	4.0	3.0		52	50	47	43	38	34	26
HPRC67/25/6	6	5.0	3.7		62	59	56	51	46	40	31
HPRC67/25/7	7	5.0	3.7		73	69	65	60	54	47	36
HPRC67/25/8	8	6.0	4.5		83	79	74	68	61	54	42
HPRC67/25/10	10	7.5	5.5		104	99	93	85	77	67	52
HPRC67/25/12	12	10.0	7.5		125	119	112	102	92	80	62
HPRC67/25/14	14	10.0	7.5		146	139	130	119	107	94	73
HPRC67/25/16	16	12.5	9.3		166	158	149	136	122	107	83
HPRC67/25/17	17	12.5	9.3		177	168	158	145	130	114	88
HPRC67/25/20	20	15.0	11.0		208	198	186	170	153	134	104
HPRC67/25/21	21	15.0	11.0		218	208	195	179	161	141	109

330 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	12.6	15.6	18.0	19.8	21.6	24.0	27.0
				LPM	210	260	300	330	360	400	450
HPRC610/33/3	3	3.0	2.2	TOTAL HEAD IN METERS	31	30	28	26	24	19	13
HPRC610/33/4	4	4.0	3.0		41	40	38	35	32	26	17
HPRC610/33/5	5	5.0	3.7		52	50	47	44	40	32	22
HPRC610/33/6	6	6.0	4.5		62	59	56	53	47	38	26
HPRC610/33/7	7	7.5	5.5		72	69	66	61	55	45	30
HPRC610/33/8	8	7.5	5.5		82	79	75	70	63	51	34
HPRC610/33/10	10	10.0	7.5		103	99	94	88	79	64	43
HPRC610/33/12	12	12.5	9.3		124	119	113	105	95	77	52
HPRC610/33/14	14	15.0	11.0		144	139	132	123	111	90	60
HPRC610/33/15	15	15.0	11.0		155	149	141	131	119	96	65
HPRC610/33/16	16	17.5	13.0		165	158	150	140	126	102	69
HPRC610/33/17	17	17.5	13.0		175	168	160	149	134	109	73
HPRC610/33/18	18	20.0	15.0		185	178	169	158	142	115	77
HPRC610/33/20	20	20.0	15.0		206	198	188	175	158	128	86



V4 (100MM) 4" SUBMERSIBLE PUMPS (FLOATING TYPE)



SALIENT FEATURES

1. International NEMA spline coupling to couple with any motors.
2. Floating type impeller and bowl design for sand freely.
3. SS 304 Investment casting NRV for long life.
4. Hexagonal Stainless Steel shaft for better torque transition.
5. Full stainless steel pump casings.
6. Sand protection devices provided in the pump.
7. Light weight for easy installations.
8. High pump efficiency hence low power consumption.

APPLICATION

1. Domestic water supply
2. Industrial water supply.
3. Solar pumping system.
4. Fountains and Gardening .
5. Agriculture & Irrigation.

MATERIAL OF CONSTRUCTION

1. Impeller & Diffusers : Polycarbonate / Glass filled Nyrol polymer.
2. Pump Shaft : Stainless steel SS 304
3. Suction & NRV : SS 304 Investment casting'
4. Sleeve : SS 304

TECHNICAL SPECIFICATION

1. Head Range : 10 – 270 Meters
2. Discharge Range : 300 – 20 LPM
3. Suitable for both mono 7 three phase motors.



SS 304
Suction NRV



NEMA
Coupling



Impeller
Bowl



Component



V4 (100MM) 4" SUBMERSIBLE PUMPS (FLOATING TYPE)

3 M ³ /hr		OUTLET SIZE : 32 MM 2900 RPM										
PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE								
		H.P.	KW	M ³ /hr LPM	0	1.2	1.8	2.4	3.0	4.2	4.8	5.4
HPRF/03/08	8	0.75	0.55	TOTAL HEAD IN METERS	0	20	30	40	50	70	80	90
HPRF/03/11	11	1.00	0.75		51	49	47	45	41	30	24	16
HPRF/03/16	16	1.50	1.10		70	67	64	62	56	41	33	22
HPRF/03/22	22	2.00	1.50		101	97	93	89	81	59	47	31
HPRF/03/33	33	3.00	2.20		139	133	128	122	111	81	64	42
HPRF/03/44	44	4.00	3.00		207	199	192	183	166	121	96	63
					276	265	254	243	221	161	128	84

4 M ³ /hr		OUTLET SIZE : 32 MM 2900 RPM										
PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE								
		H.P.	KW	M ³ /hr LPM	0	2.4	3.0	3.6	4.2	4.8	5.4	6.6
HPRF/04/06	6	0.75	0.55	TOTAL HEAD IN METERS	0	40	50	60	70	80	90	110
HPRF/04/08	8	1.00	0.75		43	40	38	35	32	28	24	19
HPRF/04/13	13	1.50	1.10		57	53	50	46	42	37	32	25
HPRF/04/16	16	2.00	1.50		92	86	81	75	68	60	51	40
HPRF/04/23	23	3.00	2.20		113	105	100	92	84	73	62	49
HPRF/04/31	31	4.00	3.00		162	151	143	131	120	105	89	70
					218	204	193	176	162	142	120	95

6 M ³ /hr		OUTLET SIZE : 50 MM 2900 RPM										
PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE								
		H.P.	KW	M ³ /hr LPM	0	2.4	3.6	4.8	6.0	7.2	8.4	9.6
HPRF/06/04	4	0.75	0.55	TOTAL HEAD IN METERS	0	40	60	80	100	120	140	160
HPRF/06/06	6	1.00	0.75		28	25	24	23	20	18	14	11
HPRF/06/09	9	1.50	1.10		42	37	36	34	30	27	21	16
HPRF/06/13	13	2.00	1.50		62	55	53	51	44	39	30	24
HPRF/06/17	17	3.00	2.20		89	79	76	73	63	56	43	34
HPRF/06/23	23	4.00	3.00		116	103	99	95	82	73	56	44
HPRF/06/31	31	5.00	3.70		156	139	133	128	110	99	76	59
					210	187	179	172	148	134	103	80

8 M ³ /hr		OUTLET SIZE : 50 MM 2900 RPM										
PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE								
		H.P.	KW	M ³ /hr LPM	0	4.8	6.0	7.2	8.4	9.6	10.8	12.0
HPRF/08/04	4	1.00	0.75	TOTAL HEAD IN METERS	0	80	100	120	140	160	180	200
HPRF/08/07	7	1.50	1.10		28	26	24	23	21	18	15	11
HPRF/08/09	9	2.00	1.50		48	45	41	40	36	31	26	19
HPRF/08/13	13	3.00	2.20		62	57	53	51	46	39	33	24
HPRF/08/17	17	4.00	3.00		89	82	76	73	66	56	47	34
HPRF/08/23	23	5.00	3.70		116	107	99	95	86	73	61	44
HPRF/08/31	31	7.50	5.50		156	145	133	128	116	99	82	59
					210	195	179	172	156	133	110	80

10 M ³ /hr		OUTLET SIZE : 50 MM 2900 RPM										
PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE								
		H.P.	KW	M ³ /hr LPM	0	6.0	7.5	9.0	10.5	12.0	13.5	15.0
HPRF/10/05	5	1.50	1.10	TOTAL HEAD IN METERS	0	100	125	150	175	200	225	250
HPRF/10/07	7	2.00	1.50		35	30	28	25	22	19	15	10
HPRF/10/10	10	3.00	2.20		46	40	38	35	30	25	20	15
HPRF/10/15	15	4.00	3.00		65	58	53	48	45	38	30	23
HPRF/10/20	20	5.00	3.70		100	85	80	75	65	55	45	35
HPRF/10/26	26	7.50	5.50		135	115	105	100	85	75	55	40
					175	145	140	125	110	95	75	55

12 M ³ /hr		OUTLET SIZE : 50 MM 2900 RPM										
PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE								
		H.P.	KW	M ³ /hr LPM	0	9.0	10.5	12.0	13.5	15.0	16.5	18.0
HPRF/12/04	4	1.50	1.10	TOTAL HEAD IN METERS	0	150	175	200	225	250	275	300
HPRF/12/06	6	2.00	1.50		27	22	20	18	17	15	12	10
HPRF/12/09	9	3.00	2.20		40	34	31	27	26	23	18	16
HPRF/12/12	12	4.00	3.00		58	49	45	41	38	34	29	25
HPRF/12/16	16	5.00	3.70		78	65	60	55	50	45	35	30
HPRF/12/22	22	7.50	5.50		100	85	80	75	70	65	50	45
					140	115	110	100	95	85	65	55



GRUND PUMPS



GRUND PUMPS

SUBMERSIBLE uPVC COLUMN PIPE

Application

- Water rising from submersible and jet pump for irrigation, domestic, industrial mining.
- A perfect replacement for MS, GI, and SS pipes.
- Suitable for salty, sandy and chemically aggressive water.

Salient Features of Dakar uPVC pipe

- Long life.
- Light in weight & easy to transport
- Easy and low installation cost since no need to threading tools or solvent cement for fitment.
- Cost saver.
- Power Saver.
- 10 to 30% extra water.
- No electrolytic deposition.
- No rusting or corrosion.
- High impact resistance.

Handling and Storage of Pipes

- Pipes should preferably be stored indoors
- The pipes are stored on level ground free of any sharp objects
- Do not throw or drop the pipes on the floor
- Do not drag or push the pipes from the truck bed
- Contact of pipes from any sharp object should be totally avoided
- The surface should be dry



Accessories



Adapter (SS, MS, CI)



Pump Guard Set



Sigri (Pipe lifting)
Spanner (Pipe tightening)



Technical Chart of Grund uPVC Column Pipe

Nominal Diameter (inch)	Duty	Average Outer Diameter (mm)	Nominal Effective Length (mm)	Thick Portion of Both Sides	Safe Pulling Load with Chain Pulley (kgf.)	Safe Allowable Hydrostatic Pressure (kg/cm ²)	Safe Total Pump Delivery Head (mt.)	Packing Details Pipes/ Bundle	Colour Code As Per Duty
1"	V4-Belled	33	2940 ± 10	130	600	13	130	30	●
	Eco		3050 ± 10	180	550	13	130	30	●
	Medium		3050 ± 10	200	750	16	160	30	●
	Standard		3050 ± 10	200	1150	30	300	30	●
	Heavy		3050 ± 10	200	1600	35	350	25	●
1 ¼"	V4-Belled	42	4940 ± 10	130	800	13	130	25	●
	Eco		3050 ± 10	180	800	13	130	25	●
	Medium		3050 ± 10	200	1150	15	150	25	●
	Standard		3050 ± 10	200	1550	26	260	25	●
	Heavy		3050 ± 10	200	1850	35	350	20	●
1 ½"	Eco	48	3050 ± 10	180	1050	13	130	20	●
	Medium		3050 ± 10	200	1300	15	150	20	●
	Standard		3050 ± 10	200	1750	26	260	20	●
	Heavy		3050 ± 10	200	2475	35	350	15	●
2"	Eco	60	3050 ± 10	180	1100	9	90	15	●
	Medium		3050 ± 10	200	1600	18	130	15	●
	Med. Plus		3050 ± 10	200	1900	20	170	15	●
	Standard		3050 ± 10	200	2150	28	210	10	●
	Std. Plus		3050 ± 10	200	2650	30	240	10	●
	Heavy		3050 ± 10	200	3250	35	270	10	●
	Super heavy		3050 ± 10	250	3550	37	350	5	●
2 ½"	Medium	75	3050 ± 10	200	2050	10	100	10	●
	Standard		3050 ± 10	200	2950	16	160	10	●
	Heavy		3050 ± 10	200	4250	26	260	5	●
	Super heavy		3050 ± 10	250	5450	35	350	5	●
3"	Medium	88	3050 ± 10	200	3050	11	110	5	●
	Standard		3050 ± 10	200	4250	17	170	5	●
	Heavy		3050 ± 10	200	6450	26	260	5	●
	Super heavy		3050 ± 10	250	7400	35	350	4	●
4"	Medium	113	3050 ± 10	200	4250	10	100	5	●
	Standard		3050 ± 10	200	6050	15	150	5	●
	Heavy		3050 ± 10	200	9750	26	260	3	●
	Super heavy		3050 ± 10	250	12200	35	350	2	●
5"	Standard	140	3050 ± 10	200	9650	16	160	2	●
	Heavy		3050 ± 10	250	14600	26	260	2	●



GRUND PUMPS

3 CORE SUBMERSIBLE FLATE CABLE

3 CORE

Submersible Flat Cable

Cable Standard

BS 6500, IS 694 2010

Conductor : Bare Burch Copper IS:8130

Insulation : PVC As Per IS:5831

Outer Sheath : PVC As Per IS:5831

Standard Packing

Coils 100, 200, 300, 500, 1000 m

Silent Features

- High Flexibility
- Excellent resistant to moisture, abrasion, grace & oil
- Long Life
- Excellent Mechanical & Electrical properties.

Application

Ideal for irrigation Pumps, Drinking Water Supply Pumps, Submersible Pump Motor Power Supply.

Technical Data

Operating Temp : 10° C to max =90° C

Nominal Voltage : 1.1 KV

Test Voltage : 3.0 KV

Min. Bending Radius : 6 x cable diameter

Core Colour

As Per IS:694:2010 - Red, Yellow, Blue

As Per IFC:60277 - Black, Blue, Brown

Conductor		Insulation		Sheath			Conductor Resistance at 20° C (max)	Current Rating at 40° C
Size of Cable	No. of Wire / Size of Wire	Thickness	Core OD	Thickness	Overall Size			
					Thickness	Width		
Sq. mm	Nos./mm	mm	mm	mm	mm	mm	/ km	Amps.
1.5	22/0.30	0.8	3.25	1.15	6.0	12.8	12.1	14
2.5	36/0.30	0.9	3.84	1.15	6.4	14.6	7.41	18
4.0	56/0.30	1.0	4.5	1.15	7.4	16.8	4.95	26
6.0	84/0.30	1.0	5.3	1.15	7.9	18.7	3.30	31
10.0	140/0.30	1.0	6.5	1.4	9.9	23.7	1.91	42
16.0	224/0.30	1.0	8.0	1.4	11.4	28.0	1.21	57
25.0	350/0.30	1.2	10.1	2.0	14.7	35.5	0.780	72
35.0	490/0.30	1.2	11.3	2.0	16.2	39.5	0.554	90
50.0	703/0.30	1.4	13.6	2.2	18.3	45.5	0.386	115
70.0	988/0.30	1.4	15.3	2.2	20.0	51.0	0.272	143
95.0	1349/0.30	1.6	18.0	2.4	23.5	60.0	0.206	165

• The number of wires is approximate and wire diameter is nominal.

• They shall be such as to satisfy the requirements of conductor resistance as per Class 5 of IEC 60228 / DIN VDE0295 / IS 8130 / BS 6360



GRUND PUMPS



GRUND PUMPS

3 CORE SUBMERSIBLE FLATE CABLE

3 CORE

Rubber Submersible Flat Cable

Cable Standard

DIN VDE 0281 part 810,
IEC 245 & BS 6007, BS 6899

Conductor : Bare Burch Copper IS:8130
Insulation : EPR Rubber
Outer Sheath : EPR Rubber

Standard Packing

Coils 100, 200, 300, 500, 1000 m

Silent Features

- Temp range -40° C to +90° C
- Exceptional long term performance
- Excellent Impact Resistant
- Excellent Weather Resistant

Application

Ideal for irrigation Pumps, Drinking Water Supply Pumps,
Submersible Pump Motor Power Supply.

Technical Data

Operating Temp : 10° C to max =90°C
Nominal Voltage : 1.1 KV
Test Voltage : 3.0 KV
Min. Bending Radius : 6 x cable diameter

Core Colour

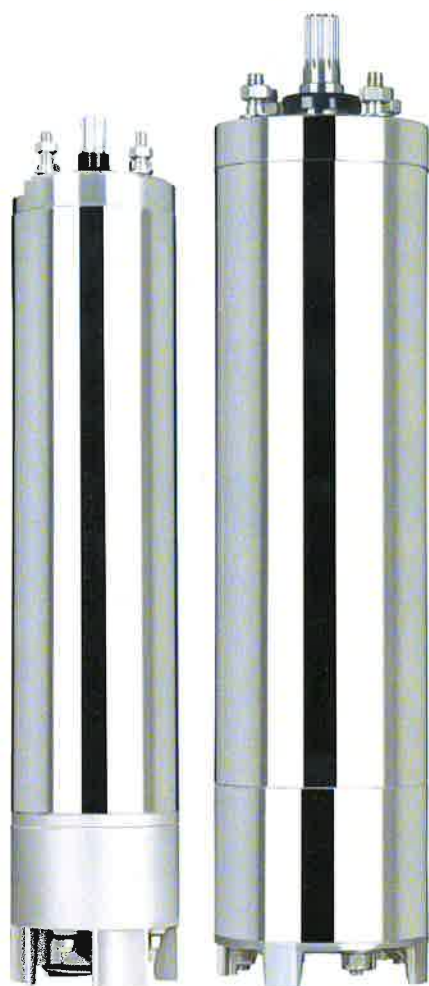
As Per IEC:60227 - Black, Light Blue, Brown
As Per IS:694:2010 - Red, Yellow, Blue

Conductor		Insulation		Sheath			Conductor Resistance at 20° C (max)	Current Rating at 40° C
Size of Cable	No. of Wire / Size of Wire	Thickness	Core OD	Thickness	Overall Size			
					Thickness	Width		
Sq. mm	Nos./mm	mm	mm	mm	mm	mm	/ km	Amps.
1.5	22/0.30	0.8	3.25	1.15	6.0	12.8	12.1	14
2.5	36/0.30	0.9	3.84	1.15	6.4	14.6	7.41	18
4.0	56/0.30	1.0	4.5	1.15	7.4	16.8	4.95	26
6.0	84/0.30	1.0	5.3	1.15	7.9	18.7	3.30	31
10.0	140/0.30	1.0	6.5	1.4	9.9	23.7	1.91	42
16.0	224/0.30	1.0	8.0	1.4	11.4	28.0	1.21	57
25.0	350/0.30	1.2	10.1	2.0	14.7	35.5	0.780	72
35.0	490/0.30	1.2	11.3	2.0	16.2	39.5	0.554	90
50.0	703/0.30	1.4	13.6	2.2	18.3	45.5	0.386	115
70.0	988/0.30	1.4	15.3	2.2	20.0	51.0	0.272	143
95.0	1349/0.30	1.6	18.0	2.4	23.5	60.0	0.206	165

- The number of wires is approximate and wire diameter is nominal. • They shall be such as to satisfy the requirements of conductor resistance as per Class 5 of IEC 60228 / DIN VDE0295 / IS 8130 / BS 6360
- In view of continuous improvements in our design and process, specifications given here in are subject change without notice.



STAINLESS STEEL SOLAR SUBMERSIBLE PUMPS



Grund range of submersible pumps are made of corrosion and abrasion resistant stainless – steel and have been developed in accordance with state of art technology. The pumps are manufactured to highest standard for energy efficiency, dependable performance, rugged construction, and long service life.

SALIENT FEATURES

1. Stainless steel SS304 construction designed and built for year of trouble-free operation
2. Comply with MNRE/BIS standards.
3. Mounting specification according to NEMA standards.
4. High quality shaft bearing providing low friction and high wear resistance
5. Heavy-duty stainless-steel impellers & diffusers ensuring optimal performance
6. High efficiency electrical design for solar application
7. Rotors are painted with special epoxy paint for longer life.
8. All the rotating parts are balance in precision grade to reduce noise & vibration
9. Carbon V/S stainless steel thrust bearing are provided to withstand high thrust load
10. Winding wires are wrapped with superior polymer/PVC to withstand wide voltage fluctuation.

APPLICATION

1. Crop and plant irrigation
2. Drinking and cooking water supply
3. Swimming pools
4. Industrial water processing
5. Fountains, irrigation for Farming

MATERIAL OF CONSTRUCTION

MOTOR

Motor Shaft	: Fully Stainless Steel AISI 410
Stamping	: Silicon Steel
Casting Parts	: SS or Cast Iron FG200 grade.
Thrust Bearing	: Carbon V/s Stainless Steel
Copper	: EC grade min 99.90%

PUMP

Pump Shaft	: Fully Stainless Steel AISI410
Suction Housing	: SS 304
NRV Housing	: SS304
Impeller/Diffuser	: SS304
Neck ring	: NBR

TECHNICAL SPECIFICATION

Motor Type	: AC & PMSM
Motor Ratings	: V4 – 1 Hp to 7.5 Hp (Available in AC & PMSM) V6 – 3 Hp to 30HP
Head Range	: 10 to 300 meter
Flow Range	: 8 to 200 m3/h



Stainless-Steel Solar Submersible Pumps Performance Specification

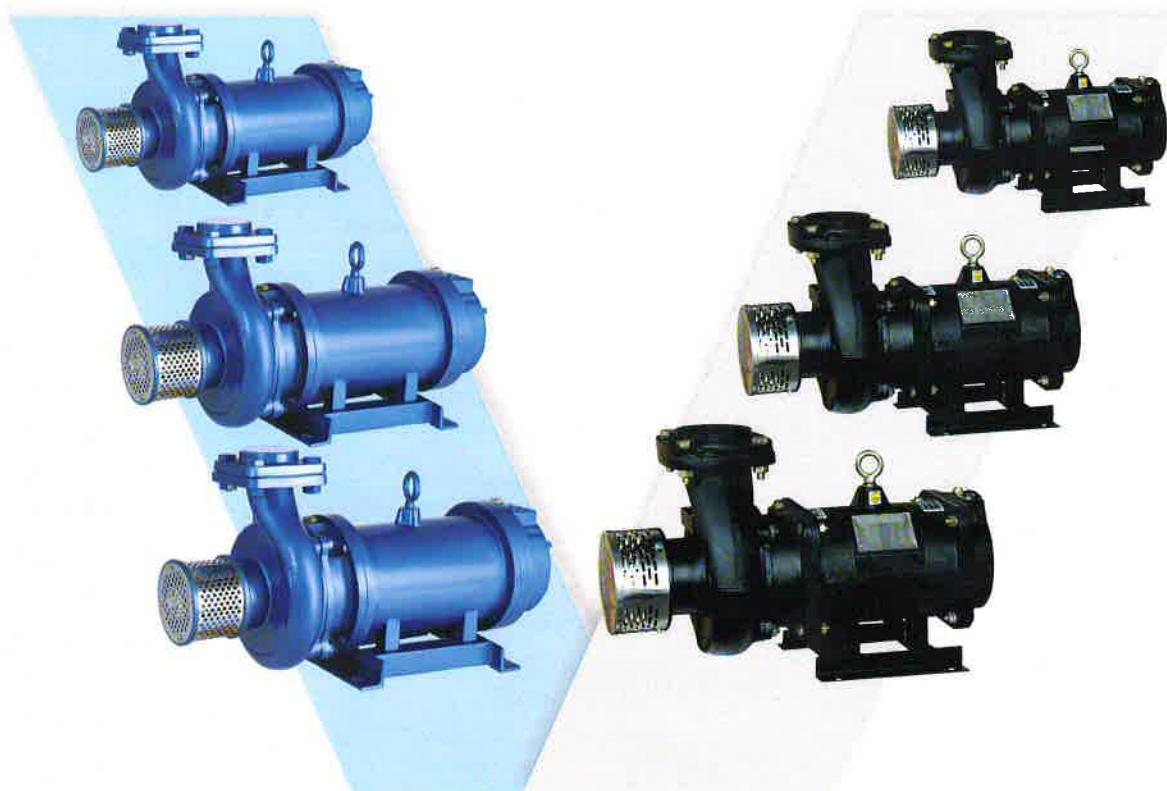
AC SOLAR PUMPSET				
Model	HP	Head	LPD (Liter per Day)	PV Module Watt
GSOL -01-30/5AC	1	30	20000	900
GSOL -01-60/3AC		60	10000	900
GSOL -01-90/2AC		90	5000	900
GSOL -01-30/9AC	1	30	42000	1200
GSOL -02-30/9AC	2	30	63000	1800
GSOL -02-50/9AC		50	37800	1800
GSOL -02-70/9AC		70	25200	1800
GSOL -03-30/17AC	3	30	105000	3000
GSOL -03-50/9AC		50	63000	3000
GSOL -03-70/9AC		70	42000	3000
GSOL -05-30/30AC	5	30	168000	4800
GSOL -05-50/17AC		50	100800	4800
GSOL -05-70/9AC		70	67200	4800
GSOL -05-100/AC		100	43200	4800
GSOL -07-30/46AC	7.5	30	236250	6750
GSOL -07-50/17AC		50	141750	6750
GSOL -07-70/17AC		70	94500	6750
GSOL -07-100/9AC		100	60750	6750
GSOL -10-30/46AC	10	30	315000	9000
GSOL -10-50/30AC		50	189000	9000
GSOL -10-70/17AC		70	126000	9000
GSOL-10-100/17AC		100	81000	9000

DC SOLAR PUMPSET				
Model	HP	Head	LPD (Liter per Day)	PV Module Watt
GSOL- 01-30/5DC	1	30	20000	900
GSOL- 01-60/3DC		60	10000	900
GSOL- 01-90/2DC		90	5000	900
GSOL- 01-30/9DC	1	30	45600	1200
GSOL- 02-30/9DC	2	30	68400	1800
GSOL- 02-50/9DC		50	41400	1800
GSOL- 02-70/9DC		70	27000	1800
GSOL-03-30/17DC	3	30	114000	3000
GSOL- 03-50/9DC		50	69000	3000
GSOL- 03-70/9DC		70	45000	3000
GSOL-05-30/30DC	5	30	182400	4800
GSOL-05-50/17DC		50	110400	4800
GSOL- 05-70/9DC		70	72000	4800
GSOL- 05-100/DC		100	50400	4800



GRUND PUMPS

HORIZONTAL OPENWELL PUMPS



SALIENT FEATURES

1. Design for wide voltage range.
2. Manufactured using a much sophisticated control process to ensure reliability & Long life of the pump.
3. Design for underwater Application.
4. Light weight & easy to install.

MATERIAL OF CONSTRUCTION

Stator Tube	: Cast Iron FG 200 Grade.
Thrust Bearing	: Carbon
Impeller	: Cast iron FG 200
Pump Volute	: Cast Iron FG 200 Grade.

APPLICATION

1. Domestic water supply-Apartment, Building & Hotel
2. Fountains.
3. Canals & Rivers
4. Irrigation from openwell where water level fluctuate.

TECHNICAL SPECIFICATION

Head Range	: 12 to 60 Meter
Discharge Range	: 65 to 2344 LPM
Motor Rating	: 3.0HP to 5HP (Single Phase) 3.0HP to 20HP (Three Phase)
Voltage Range	: 140V to 250V (1 Phase) 200V to 440V (3 Phase)



PERFORMANCE DATA

MODEL CODE	H.P.	MODEL TYPE	OUTLET SIZE	THREE PHASE	HORIZONTAL OPENWELL PUMPS															
					12	14	18	22	24	26	28	32	36	38	40	46	50	53	56	60
HP338	3.0	DLX	50X40	S.P./T.P.		365	350	325	305	285	260	195	115	65						
HP332	3.0	HD	65X50	S.P./T.P.		845	760	630	575	515	410									
HP330	3.0	DLX	65X50	S.P./T.P.		750	670	550	500	450	350									
HP328	3.0	TOOFAN	65X50	S.P./T.P.		680	600	480	405	360	260									
HP327	3.0	HD	65X65	S.P./T.P.	938	865	773	620	565	460										
HP325	3.0	DLX	65X65	S.P./T.P.	850	785	700	550	490	410										
HP323	3.0	TOOFAN	65X65	S.P./T.P.	780	720	630	475	425											
HP320	3.0	DLX	80X80	S.P./T.P.	1220	1050	525													
HP316	3.0	DLX	100X100	S.P./T.P.	1400	1140	700													
HP548	5.0	DLX	50X40	S.P./T.P.			500	485	460	460	400	375	350	315	280	150				
HP542	5.0	HD	65X50	S.P./T.P.				800	775	755	695	625	475	390						
HP540	5.0	DLX	65X50	S.P./T.P.				720	700	675	625	540	415	340						
HP538	5.0	TOOFAN	65X50	S.P./T.P.				640	615	600	550	475	350							
HP532	5.0	HD	65X65	S.P./T.P.		1175	1100	1050	940	875	710									
HP531	5.0	DLX	65X65	S.P./T.P.		1080	1020	980	850	800	650									
HP530	5.0	TOOFAN	65X65	S.P./T.P.		1000	950	900	770	720	570									
HP528	5.0	DLX	80X80	S.P./T.P.	1650	1485	1260	1010	870	650										
HP519	5.0	DLX	100X100	S.P./T.P.	1600	1450	1125													
HP762	7.5	DLX	50X50	T.P.				615	600	585	575	560	535	520	505	475	420	375	340	215
HP752	7.5	HD	65X50	T.P.						830	795	785	765	740	685	525				
HP750	7.5	DLX	65X50	T.P.						765	735	725	700	575	625	465				
HP747	7.5	HD	65X65	T.P.				1125	1100	1050	1015	935	820	790	715					
HP745	7.5	DLX	65X65	T.P.				1045	1020	975	940	855	750	705	650					
HP734	7.5	DLX	80X80	T.P.	1865	1840	1625	1550	1420	1275	1100	565								
HP725	7.5	DLX	100X100	T.P.	1905	1860	1520	1215	1025											
HP1062	10.0	HD	65X50	T.P.								965	950	930	905	790	740	685		
HP1060	10.0	DLX	65X50	T.P.								875	865	850	835	725	675	625		
HP1038	10.0	DLX	80X80	T.P.					1850	1790	1700	1510	1200	1020						
HP1030	10.0	DLX	100X100	T.P.		2055	1960	1645	1560	1330	1062									
HP1238	12.5	SO	80X80					1505	1420	1320	1215	1100	970							
HP1232	12.5	SO	100X100		2150	2130	2050	2000	1930	1760	1550	1330								
HP1538	15	SO	80X80							1900	1740	1575	1360	1150						
HP1536	15	SO	100X100				2225	2130	2060	1900	1725	1520	1320							
HP2040	20	SO	100x10						2344	2190	2025	1850	1625	1400						

* PERFORMANCE DATA AT 2800 RPM, 380 VOLTS FOR THREE PHASE & 230 VOLTS FOR SINGLE PHASE, 50 Hz, A.C. SUPPLY



Cable Selection Table

VOLTS	MOTOR RATING		CABLE SIZE SQUARE MILLIMETERS												MAXIMUM LENGTH IN METERS
	KW	HP	1.5	2.5	4	6	10	16	25	35	50	70	95	120	
380/415 VOLT 50 Hz	0.75	1.0	380	630	1020	1525	2595	4032	6111	8366					
	1.1	1.5	300	500	810	1210	2060	3200	4850	6640	9220				
	1.5	2.0	220	370	590	880	1500	2340	3560	4890	6830	9230			
	2.2	3.0	150	250	400	600	1030	1600	2440	3350	4680	6340	7990		
	3.0	4.0	110	190	310	460	790	1230	1880	2590	3630	4930	6230		
	3.7	5.0	90	150	240	370	630	980	1490	2050	2870	3900	4920		
	4.0	5.5	80	140	230	340	590	920	1390	1910	2670	3600	4520		
	4.5	6.0	70	130	220	320	550	860	1310	1790	2510	3390	4260		
	5.5	7.5	60	110	170	260	440	690	1060	1450	2030	2750	3460		
	7.5	10.0	50	90	130	200	340	530	810	1110	1560	2120	2680		
	9.3	12.5		80	100	160	280	440	670	920	1310	1780	2250		
	11	15.0		70	90	130	230	360	550	750	1060	1440	1820		
	13	17.5			80	110	200	310	480	650	920	1250	1580		
	15	20			70	100	170	270	410	570	800	1080	1370		
	18.5	25				80	140	210	330	450	630	860	1090		
	22	30				70	120	180	280	380	540	740	930		
	26	35					100	150	230	310	440	610	770	870	
	30	40					90	130	210	280	400	540	680	780	
	37	50						110	170	230	320	440	550	700	
	45	60							140	190	260	360	460	560	
	56	75								160	220	290	380	340	
	75	100									160	220	280	340	
	93	125										170	220	260	

VOLTS	MOTOR RATING		CABLE SIZE SQUARE MILLIMETERS											MAXIMUM LENGTH IN METERS
	KW	HP	1.5	2.5	4	6	10	16	25	35	50	70	95	
220/240 VOLT 50 Hz(±3%)	0.37	0.5	120	200	320	480	810	1260	1900	2590	3580	4770	5920	
	0.55	0.75	80	130	250	320	550	850	1290	1760	2430	3230	4000	
	0.75	1.0	60	100	170	250	430	670	1010	1380	1910	2550	3160	
	1.1	1.5	40	70	120	180	300	470	710	980	1360	1850	2320	
	1.5	2.0	30	60	90	130	230	360	550	760	1060	1440	1820	
	2.2	3.0		40	60	100	170	280	430	600	820	1080	1310	
	3.0	4.0		30	60	90	140	240	380	560	750	950	1200	
	3.7	5.0		20	50	80	120	200	340	520	700	900	1150	



Capacitor & Relay Selection Table for V3 Pumpset

HP	Running Capacitor (MFD)	Starting Capacitor (MFD)	Full Load (AMP)	Use Relay Range (AMP)
0.5	36	80-100	5.0	4.5 TO 7.5
0.75	50	80-100	6.5	4.5 TO 7.5
1.0	50	100-120	7.5	6.0 TO 10.0
1.25	61	100-120	8.5	6.0 TO 10.0
1.5	72	100-120	9.5	9.0 TO 15.0

Capacitor & Relay Selection Table for V4 Pumpset

HP	Running Capacitor (MFD)	Starting Capacitor (MFD)	Full Load (AMP)	Use Relay Range (AMP)
0.5	36	80-100	5.0	4.5 TO 7.5
0.75	36	80-100	6.5	4.5 TO 7.5
1.0	50	100-120	7.5	6.0 TO 10.0
1.5	61	100-120	9.5	9.0 TO 15.0
2.0	72	120-150	12	9.0 TO 15.0 OR 10.0 TO 16.0
3.0	108	120-150	15	15.0 TO 22.0 OR 14.0 TO 21.0
4.0	125	150-200	20	20.0 TO 33.0
5.0	150	150-200	25	20.0 TO 33.0

Conversion Table

Power :

1 HP(Si)	0.746 kW
	746 W
1 HP(Metric)	0.736 kW
	736 W
1 kW	1000 W

Head :

1 mtrs.	3.28 ft.
1 ft	0.3048 m.
1 kg/cm ²	10 mtrs

Discharge Rate:

1 m ³ /h	16.67 l/min
1 m ³ /s	60,000 l/min
1 l/s	60 l/min
1 Cu ft/s	1699.2 l/min
1 Imp. DPH	0.0757 l/min
	0.000126 l/min

Pressure :

1 Atmosphere	1.033 kg/cm ²
1 Atmosphere	14.7 lb/in ²
1 Atmosphere	10.34 mwc
1 lb /in ²	0.704 mwc
1 lb /in ²	2.31 ft wc
1 lb /in ²	51.6 mm of mercury.
1 cusec	1705 lpm.
	1 Acre inch/hr.
1 Cu mec	20558.3 Imp.
	1 Acre ft/hr.

Discharge :

1 Imp Gallon	4.546 ltrs.
1 US Gallon	3.785 ltrs.
1 Cu m.	1000 ltrs.
1 Cu ft.	28.32 ltrs.

Weight :

1 kg.	1000 gm.
1 kg.	2.2046 lb.
1 kg.	0.4536 kg.



Technical detail's of Motor

V3 / V4 Motor -SINGLE PHASE

Sr. No.	kW/ H.P	Speed in R.P.M	Current in Amp.
			(230V)
1	0.37/0.5	2760	5.3
2	0.55/0.75	2770	6.2
3	0.75/1.0	2780	7.5
4	1.1/1.5	2780	10.5
5	1.5/2.0	2790	13.8
6	2.2/3.0	2790	19.8
7	3.0/4.0	2800	23.0
8	3.7/5.0	2800	28.0

V4 Motor -THREE PHASE

Sr. No.	kW/ H.P.	Speed in R.P.M	Current in Amp.				Connection
			415V	380V	350V	300V	
1	0.37/0.5	2740	1.3	1.4	1.5	1.8	Star
2	0.55/0.75	2750	1.9	2.1	2.3	2.6	Star
3	0.75/1.0	2750	2.4	2.6	2.8	3.3	Star
4	1.1/1.5	2750	4.0	4.3	4.7	5.5	Star
5	1.5/2.0	2760	4.8	5.2	5.7	6.6	Star
6	2.2/3.0	2770	6.9	7.5	8.2	9.5	Star
7	3.0/4.0	2770	9.0	9.8	10.6	12.4	Star
8	3.7/5.0	2780	10.6	11.5	12.5	14.6	Star
9	4.5/6.0	2780	12.6	13.7	14.9	17.4	Star
10	5.5/7.5	2790	15.5	16.9	18.3	21.4	Star

V5 Motor -THREE PHASE

Sr. No.	kW/ H.P.	Speed in R.P.M	Current in Amp.				Connection
			415V	380V	350V	300V	
1	3.7/5.0	2820	10.0	10.9	11.5	13.5	Star
2	4.5/6.0	2820	12.0	13.0	14.0	16.5	Star
3	5.5/7.5	2820	14.5	15.8	17.0	20.0	Star
4	7.5/10.0	2830	19.5	21.0	23.0	27.0	Star/Delta

V6 Motor -THREE PHASE

Sr. No.	kW / H.P.	Speed in R.P.M	Current in Amp.				Connection
			415V	380V	350V	300V	
1	2.2/3.0	2790	6.5	7.0	7.5	9.0	Star
2	3.0/4.0	2790	8.5	9.2	10.0	11.5	Star
3	3.7/5.0	2810	10.0	10.9	11.5	13.5	Star
4	4.5/6.0	2810	12.0	13.0	14.0	16.5	Star
5	5.5/7.5	2820	14.5	15.8	17.0	20.0	Star
6	5.5/7.5	2820	14.5	15.8	17.0	20.0	Star/Delta
7	7.5/10	2820	19.5	21.0	23.0	27.0	Star/Delta
8	9.3/12.5	2830	25.0	27.0	26.5	34.5	Star/Delta
9	11.0/15.0	2830	29.0	31.5	34.0	40.0	Star/Delta
10	13.0/17.5	2850	34.0	37.0	40.0	47.0	Star/Delta
11	15.0/20.0	2850	39.0	42.5	46.0	53.5	Star/Delta
12	18.5/25.0	2850	48.0	52.0	56.0	66.0	Star/Delta

V5 / V6 Motor -SINGLE PHASE

Sr. No.	kW / H.P	Speed in R.P.M	Current in Amp.
			230V
1	2.2/3.0	2800	15.0
2	3.0/4.0	2800	20.0
3	3.7/5.0	2800	25.0



Friction Loss Table

Galvanized Steel Pipe

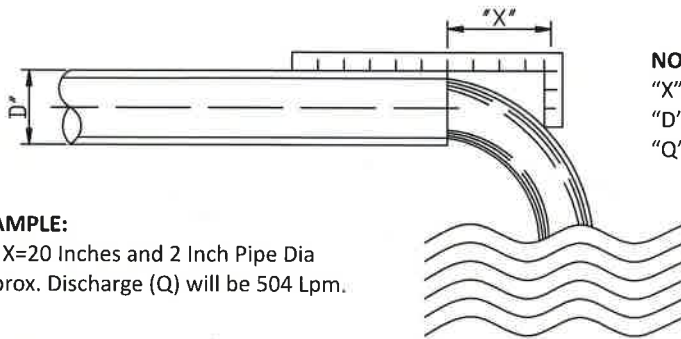
VOLUME RATE OF FLOW (LPM)	NOMINAL PIPE DIA IN mm								
	40	50	63	75	90	110	125	140	160
	FRICTION LOSS in meters (for 10 meters long pipe)								
30	0.074								
60	0.268								
75	0.405	0.131							
96	0.640	0.211							
120	0.967	0.310							
150	1.462	0.483	0.150						
192	2.309	0.762	0.250	0.106					
240	3.491	1.153	0.337	0.160					
300		1.742	0.571	0.242					
480		4.161	1.363	0.577	0.237				
600			2.060	0.873	0.358	0.133			
750			3.114	1.319	0.542	0.201			
960			4.919	2.084	0.856	0.317	0.172		
1200				3.151	1.293	0.479	0.260		
1500					1.955	0.715	0.392	0.225	0.117
1920					3.089	1.145		0.355	0.184
2400						1.731	0.937	0.537	0.279
3000						2.617	1.416	0.812	0.421

Rigid Pipe PVC

VOLUME RATE OF FLOW (LPM)	NOMINAL PIPE DIA IN mm								
	25	32	40	50	65	80	100	125	150
	FRICTION LOSS in meters (for 10 meters long pipe)								
30	0.074								
60	0.268								
75	0.405	0.131							
96	0.640	0.211							
120	0.967	0.310							
150	1.462	0.483	0.150						
192	2.309	0.762	0.250	0.106					
240	3.491	1.153	0.337	0.160					
300		1.742	0.571	0.242					
480		4.161	1.363	0.577	0.237				
600			2.060	0.873	0.358	0.133			
750			3.114	1.319	0.542	0.201			
960			4.919	2.084	0.856	0.317	0.172		
1200				3.151	1.293	0.479	0.260		
1500					1.955	0.715	0.392	0.225	0.117
1920					3.089	1.145		0.355	0.184
2400						1.731	0.937	0.537	0.279
3000						2.617	1.416	0.812	0.421



Discharge Rating Table



NOTE:

"X": Horizontal Distance in Inches

"D": Normal Pipe Diameter in Inches

"Q": Discharge In LPM.

EXAMPLE:

For X=20 Inches and 2 Inch Pipe Dia
Approx. Discharge (Q) will be 504 Lpm.

HORIZONTAL DISTANCE "X" IN INCHES	NOMINAL PIPE DIAMETER								
	1"	1.25"	1.5"	2"	2.5"	3"	4"	5"	6"
	DISCHARGE RATE (Q) (LPM)								
4	26	44	60	100	141	222	377	590	863
5	32	55	75	127	177	277	472	749	1090
6	39	67	91	150	213	331	567	885	1294
7	46	78	105	177	250	386	663	1044	1521
8	51	89	120	200	281	445	754	1180	1725
9	58	100	135	227	318	499	849	1339	1952
10	64	111	151	250	354	554	944	1475	2156
11	71	118	166	277	390	608	1040	1634	2383
12	77	132	177	300	427	667	1135	1771	2588
13	84	143	195	327	459	722	1226	1930	2815
14	91	154	211	350	495	776	1321	2043	3019
15	97	165	225	377	531	831	1416	2225	3223
16	104	177	240	400	567	890	1512	2361	3450
17	109	188	256	427	604	944	1603	2520	3677
18	116	198	271	450	636	999	1698	2679	3882
19	123	210	286	477	672	1053	1793	2815	4109
20	129	221	301	500	708	1108	1889	2951	4313
21	137	232	316	527	745	1162	1984	3110	4540
22	142	243	331	554	781	1221	2075	3269	4767
23	148	254	345	577	813	1276	2170	3405	4971
24	155	265	360	604	849	1330	2265	3541	5175
25	161	276	375	627	885	1389	2361	3700	5402
26	167	287	390	654	922	1444	2456	3836	5607
27	174	298	405	676	958	1498	2547	3995	5834
28	181	308	421	704	990	1553	2642		
29	187	320	436	726	1026	1607	2738		
30	193	331	451	754	1062	1666	2833		
31			468	776	1099	1721			
32			481	804	1135	1775			
33			495	826	1167	1830			
34			513	854	1203	1884			
35			527	881	1239	1943			
36			540	903	1276	1998			

Note: All Specifications and Table in catalogue are for reference only as because of Continuous development it may change without prior notification.



GRUND PUMPS

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