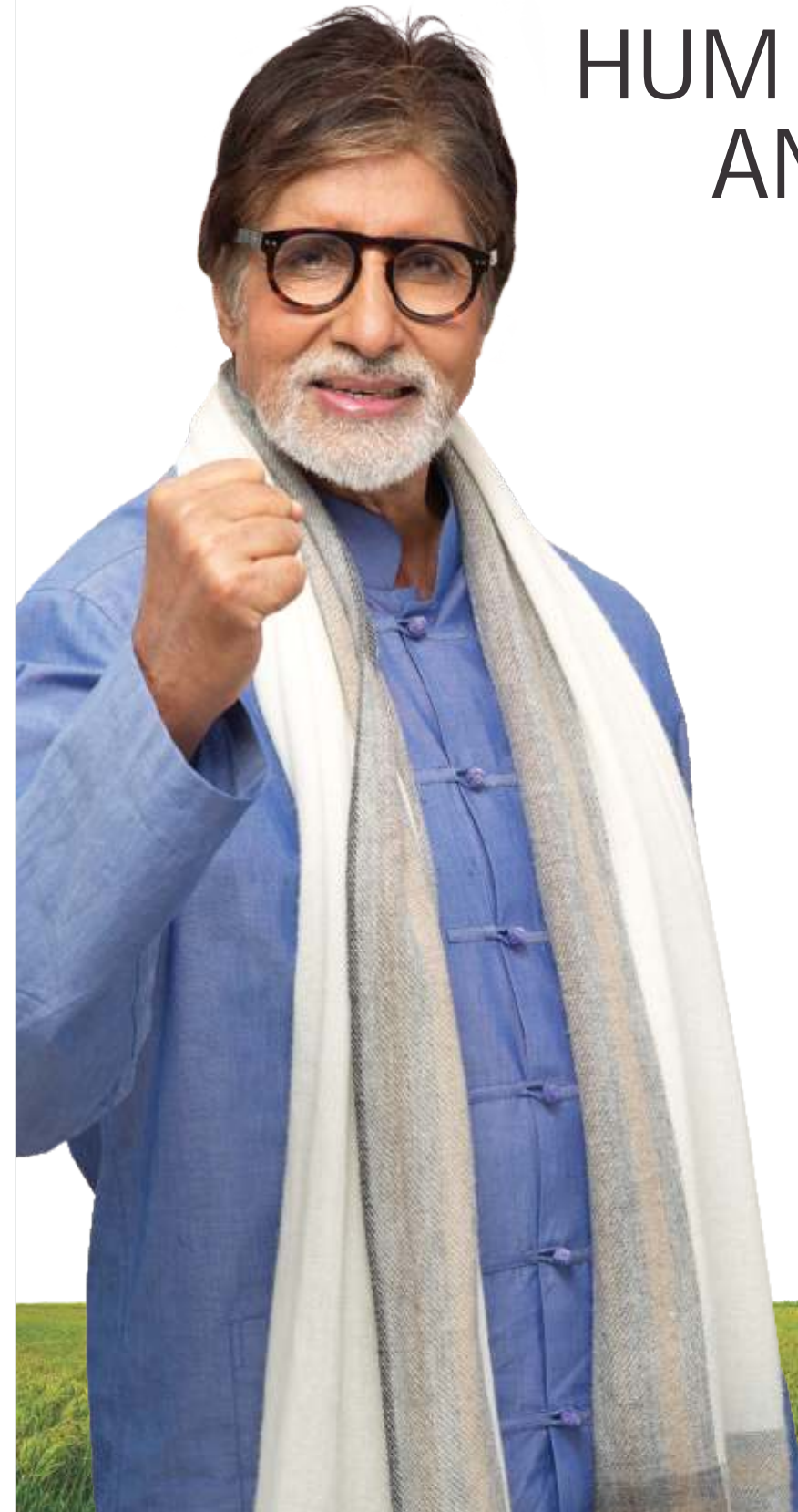


HUM HAIN DESH KE ANNADATA KI SHAKTI !



SAP No. 2900000268 CIN: L29120MIP1995PLC009327

May/2014-15/L2/1000

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PERFORMANCE BOOK

- CRP Pumps • Monoblock Pumps • Openwell Pumps
- Submersible Pump Sets

SHAKTI
PUMPING LIFE

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WELL SIZE	V4	V5	V6	V7	V8	V10	V12	V14
	Minimum Duty Point							
V4								
QF-2	30							
QF-5	40							
QF-6	67							
QF-12	100							
QF-20	133							
QF-25	183							
V5								
QF-10		133						
QF-15		167						
QF-30		233						
QF-50		400						
V6								
QF-10			133					
QF-15			167					
QF-30			233					
QF-50			400					
QF-75			667					
QF-100			833					
F-20			117					
F-25			183					
V7								
QF-101				600				
QF-105				600				
QF-110				800				
QF-115				600				
V8								
QF-125					1000			
QF-160					1500			
V10								
QF-210						2167		
QF-270						2833		
V12								
QF-360							3500	
V14								
SSP-270								2672
SSP-300								4008
SSP-360								5344
Cable Dimensions At 1x220 Volt, 50 Hz								
Cable Dimensions At 3x415 Volt, 50 Hz								
Head Losses in Plastic Pipes								
Reasons behind Pump Failure								

VISION

To become a company that constantly strives for quality and customer satisfaction by providing best pumping solutions with global benchmarks. To excel with an emphasis on best business and ethical practices with strong organizational values justifying the interests of all stakeholders.

MISSION

To work relentlessly towards coming closer to our vision statement by offering best working environment and training so as to focus on integrity and ethics. To empower the workforce to offer products and services that exceed customer expectations by providing value for money and ensuring handsome returns to our employees and shareholders thereby contributing to our mission to cross 1 \$ billion mark by 2021.

QUALITY POLICY

Shakti Pumps (I) Ltd. is committed to achieve total customer satisfaction by manufacturing high quality pumps with global benchmark meeting customer expectations by providing timely supply and services to our customers. We shall strive to maintain a high degree of goodwill and brand image to emerge as a market leader in domestic and international markets. We shall strive for providing excellent services to our customers with the help of teamwork and continual improvement of Quality Management Systems-therby achieving total customer delight.



MAIN PLANT



SEZ UNIT



SUBMERSIBLE PLANT



CED COATING PLANT



BOOSTER & OPENWELL / MONOBLOCK PLANT

PERFORMANCE DATA

IMPORTANT INSTRUCTIONS

All pumps are only suitable for pumping clear, cold, non aggressive, non explosive water without abrasives, solid particles or fibres.

Avoid fatal electrical shock or injury by disconnecting power before working on or around the pumping system. Only technically qualified personnel must perform the work complying with local electricity rules and regulations. To reduce the risk of electrical shock during operation an appropriate earthing is mandatory.

Performance applicable to liquid of specific gravity 1 and viscosity as of water.

Friction losses in riser pipe have not been calculated.

Pump should not be operated dry. Install dry run preventer to protect the pumpset from dry running.

Check the water level in deepwell submersible and openwell submersible pumpsets as detailed given in operator's manual before commissioning.

The performance data are at rated and only indicative , actual discharge depends on availability of water in well, based on strength of water source, height of water column, submergence of pump.

Maximum permissible supply of voltage should be between - 15% to +6%.

All pumps employ a prime mover motor suitable for 200 - 240 Volts single phase or 380 - 415 Volts three phase, 50 Hz, AC Supply.

Pumps should be run for few minutes atleast once in 2 days to prevent from seizing.

The pipe diameters must never be smaller than the pump connections.

Use ISI marked and low friction good quality pipes.

Use Air valves in lengthy delivery pipe line to avoid pipe damage.

Reduce number of bends, elbows, T-bends as much as possible in the pipe line.

Performance applicable to 4 mtr submergence of pump unit in water.

Use appropriate size, good quality cable and starter / protection devices.

Read our operator's manual carefully before installation.

To get better performance, install the pumpset between 50% to 80% of its total head capacity.

In view of continuous developments the informantion / descriptions / specifications / illustrations are subject to change without notice.

CRP SERIES



SELF PRIMING PUMPS

FEATURES:

- High quality die cast aluminum motor body
- Anti corrosive coated cast iron parts
- Built in winding protector
- Insulation class "B"
- SS Shaft
- Bronze Impeller
- Duty Cycle S1
- Double sealed ball bearings

APPLICATIONS:

- Domestic Water Supply
- Over head tanks
- Home pressure boosting
- Construction Site
- Gardens/ Fountains

CRP PERFORMANCE TABLE

SR. NO.	MODEL	SUCTION & DELIVERY PIPE SIZE (MM)	H.P.	TOTAL HEAD IN METERS										
				6	10	12	18	20	24	30	36	40	50	60
				DISCHARGE IN LPM										
1	CRP-05	25X25	0.50	42	40	38	27	25	22	14	8			
2	CRP-10	25X25	1.00		58	54	45	40	35	31	25	24	14	6

SSNB SERIES



MONO BLOCK END SUCTION PUMPS

FEATURES:

- 1) Ultra modern & latest design.
- 2) All units are thoroughly tested for field.
- 3) Superior design materials & manufacturing process assure a longer life.
- 4) The components are made of selective materials.
- 5) Motor are class-2

APPLICATIONS:

- 1) Water distribution.
- 2) Pressure boosting.
- 3) Liquid transfer.
- 4) Irrigation.
- 5) Domestic water supply.

SHOS SS SERIES



OPENWELL PUMPS

FEATURES:

- Ultra modern and latest in design
- All the units are thoroughly tested for field
- Superior design materials & manufacturing processes assure a longer life
- Easy Installation
- High efficiencies better then international values leading to energy saving
- Silent, vibration free running
- The components are made of selective materials
- Effective after sales service
- Manufactured by ISO 9001–2008 Company

APPLICATIONS:

- Rural and urban draining water installations
- Water supplies for high rise building
- Water circulating system for lawn & garden
- Agricultural lift sprinkler and drip irrigation
- Industrial service water supply schemes
- Decorative water fountains

SNK SERIES



MONO BLOCK END SUCTION PUMPS

FEATURES:

- The pumps have back pull design enabling to remove the motor without dismantling the pump
- Motors are of class – 2
- SNK Series pump can be driven by diesel set or DG set

SNB SERIES



APPLICATIONS:

- The end suction pumps are especially suitable for water distribution in large scale irrigation systems
- Industrial pressure boosting
 - Industrial liquid transfer
 - HVAC
 - Irrigation

PERFORMANCE DATA

PERFORMANCE DATA

SNB /SNK SERIES (MONOBLOCK END SUCTION PUMPS) PERFORMANCE TABLE

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE										
						HEAD IN (M)	DISCH. IN (LPS)		HEAD										
									0.5	1	2	3	4	5	6	8			
1	25-160	25	25	25	1.0	30	1	24-31	34	30	25								
2	30-136	50	32	50	1.0	16	3	13-18		19	18	16		4					
3	30-136	50	32	50	1.5	20	3	16-22			22	20		9	5				
4	32-125	50	32	65	1.5	13	6	10-14				14.5		14	13.5	13	10		

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE														
						HEAD IN (M)	DISCH. IN (LPS)		HEAD														
									2	3	4	5	6	7	8	9	10	11	14				
1	32-160.1	50	32	65	2.0	21	5	17-22	25	24	22	21			14	11	9						
2	30-136	50	32	50	2.0	18	5	14-20	21.5	21	19	18			17	15	13						
3	40-125	65	40	100	2.0	12	8.0	10-13			15	14			13	12	10.5	9.5	9				

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE														
						HEAD IN (M)	DISCH. IN (LPS)		HEAD														
									3	4	5	6	7	8	9	10	11	12	13	14			
1	32-160.1	50	32	65.0	3.0	30	5	24-31	33	32	30	24			11	9							
2	32-160	50	32	75	3.0	20	8	16-22	27	26	25	23			22	20	19	13					
3	40-125	65	40	100	3.0	16	10	13-18			18	17.5			17	16.5		16	15	14.5	14	13	

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																		
						HEAD IN (M)	DISCH. IN (LPS)		HEAD																		
									3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19			
1	32-160.1	50	32	65	4.0	32	7	26-34	40	38	36	34			32	10											
2	32-160	50	32	75	4.0	24	10	19-25		30	29	28			27	26	25	24	21	19							
3	40-125	65	40	100	4.0	20	13	16-22			24				23	22.5		22	21	20.5	20	19.5	19	16			
4	50-125	75	50	100	4	14	13	11-15				16.5			16	15.8	15.5	15	14.8	14.5	14	13.8	13.5	13	12	11	

PERFORMANCE DATA



PERFORMANCE DATA

SNB /SNK SERIES (MONOBLOCK END SUCTION PUMPS) PERFORMANCE TABLE

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																												
						HEAD IN (M)	DISCH. IN (LPS)		HEAD																												
									2	3	4	5					6	7	8	9	10	11	12	13	14	15	16	18	19	20	22	23	27	32	33		
1	32-200	50	32	65	5.5	36	7	29-38	52	48	45	42					39	36	31	26	20	16															
2	32-160	50	32	75	5.5	35	8	28-37		40.5	40	39					38	37	35	34	31	28	25	22													
3	40-125	65	40	100	5.5	24	12	19-25									27	26.5		26	25	24	23	23.5	23	20	19										
4	50-125	65	50	75	5.5	18	15	14-20											21		20		19		18.2	18	17	15	14								
5	65-125	100	65	100	5.5	14	23	11-15													17		16.2		16			15		14.5			14	13	12	11	

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																													
						HEAD IN (M)	DISCH. IN (LPS)		HEAD																													
									2	3	5	6					7	8	9	10	11	12	13	14	15	16	17	18	19	20	23	24	26	28	30	31	32	37
1	32-250	75	32	65	7.5 + HP	77	5	62-81	82	81	77	60					32	21	12																			
2	32-160	50	32	75	7.5	45	10	36-47		48	47.8	47.6					47.5	47	46	45	41	33	24															
3	32-200	75	32	65	7.5	37	10	30-39			48	46					44	43	40	37	35	32	28	23														
4	32-200	65	32	65	7.5 +HP	55	8	44-58				58					56	55	53	50	47	45	43	40	35	30												
5	40-125	75	40	100	7.5	27.0	13.0	22-28									31	30.4	30.2	30	29	28	27	26	25	24	23	22	19	18								
6	50-160	75	50	100	7.5	26	13	21-27											27		26.5		26		24.5	23	22	21.5		19	18		17.5					
7	65-125	100	65	100	7.5	18	26	14-20															21			20		19			18.5	18	17.5	17	16.5	16	14	

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																														
						HEAD IN (M)	DISCH. IN (LPS)		HEAD																														
									3	5	6	7	8	9	10					11	12	13	14	15	16	17	18	19	20	21	25	27	29	30	32	33	35	37	38
1	32-250	75	32	65	10.0	77	5	62-81	81	77	60	36	21	11																									
2	32-250	50	32	75	10.0	72	7	58-76		76	73	72	60	12																									
3	32-200	75	32	65	10.0	50	10	40-52			60	57	55	53	50			45	41	36	30	25																	
4	32-200	65	32	65	10.0	55	8	44-58				58	55	53	50			47	45	43	40	35	30																
5	40-200	75	40	65	10.0	43	15	34-45					49	48.5				48	47	45	44	43	40	35	28	20													
6	50-125	75	50	100	10.0	24	20	19-25							28.2					27.5		26.5		25		24.5	24			18									
7	50-160	75	50	100	10.0	28	25	22-29										32		31.5		31		30.5		30		28	22										
8	65-160	100	65	100	10.0	23	30	18-24												29				27	26	25	24.5		24		23	22	21	20.5	20	18	16		
9	65-125	100	65	100	10.0	21	33	17-22																25.5		25.2		25		23.5		22		21.5	21		20	19	17

PERFORMANCE DATA

PERFORMANCE DATA

SNB /SNK SERIES (MONOBLOCK END SUCTION PUMPS) PERFORMANCE TABLE

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																											
						HEAD IN (M)	DISCH. IN (LPS)		HEAD																											
									4	6	8	9	10	11	12	13	15	17	18	19	20	23	25	27	29	30	32	35	40	43						
1	32-250	50	32	75	15.0	76	8	61-80	82	80	76	72																								
2	32-200	75	32	65	15.0	58	13	46-61		67	66	65																								
3	40-200	75	40	65	15.0	52	17	42-55			66	65																								
4	50-160	75	50	100	15.0	39	20	31-41																												
5	65-160	100	65	100	15.0	30	32	24-31																												
6	65-125	100	65	100	15.0	22	40	18-23																												

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																											
						HEAD IN (M)	DISCH. IN (LPS)		HEAD																											
									4	6	8	10	13	17	20	21	23	24	27	30	33	35	38	40	42	43										
1	32-250	75	32	65	20.0	92	10	74-97	95	94	93	92																								
2	40-250	75	40	100	20.0	78	13	62-82	84	83	82	81																								
3	40-200	75	40	65	20.0	61	17	49-64	69	68	67.5	67																								
4	50-160	100	50	100	20.0	40	30	32-42																												
5	65-160	100	65	100	20.0	39	33	31-41																												

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																											
						HEAD IN (M)	DISCH. IN (LPS)		HEAD																											
									4	6	8	10	13	17	20	21	24	26	33	38	40	43														
1	40-250	100	50	100	25.0	75	17	60-79	91	89	87	86																								
2	65-160	100	65	100	25.0	46	33	37-48																												

S. NO	MODEL	SUCTION PIPE SIZE (MM)	DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE												
						HEAD IN (M)	DISCH. IN (LPS)		HEAD												
									10	13	17	18	20	21	24	25	36				
1	40-250	75	40	100	30.0	90	18	72-95	95	93	91	90									

PERFORMANCE DATA

PERFORMANCE DATA

SHOS SS SERIES (OPENWELL PUMPS) PERFORMANCE TABLE

S. NO	MODEL	SUCTION x DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE											
					HEAD IN (M)	DISCH. IN (LPS)		HEAD											
								0.5	1	2	3	4	5	6	8				
1	25-160	25 X 25	25	1.0	29	1	25-30	33	29	25									
2	30-136	50 X 32	50	1.0	15	3	13-16		19	18.5	15			4					
3	30-136	50 X 32	50	1.5	21	3	18-22			23	21			17	7				
4	32-125	50 X 32	65	1.5	12	6	10-13				16			15	13.5	12	8		

S. NO	MODEL	SUCTION x DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE												
					HEAD IN (M)	DISCH. IN (LPS)		HEAD												
								2	3	4	5	6	7	8	9	10	11	14		
1	30-136	50 X 32	50	2.0	22	4	19-23	24	23	22	19			10						
2	32-160.1	50 X 32	65	2.0	22	5	19-23		25	23	22			19	16	8				
3	40-125	65 X 40	100	2.0	14	10	12-15			19	18			17.5	17	16	15	14	13	10

S. NO	MODEL	SUCTION x DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE															
					HEAD IN (M)	DISCH. IN (LPS)		HEAD															
								3	4	5	6	7	8	9	10	11	12	13	16				
1	32-160.1	50 X 32	65.0	3.0	29	5	25-30	32	30.5	29	27			24	8								
2	32-160	50 X 32	75	3.0	21	10	18-22		28	27	26			25	22	21.5	21	18	16				
3	40-125	65 X 40	100	3.0	16	11	14-17			20				19	18	17	16.5	16	15	13.5	13		

S. NO	MODEL	SUCTION x DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																	
					HEAD IN (M)	DISCH. IN (LPS)		HEAD																	
								3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20		
1	32-160.1	50 X 32	65	4.0	32	7	24-35	39	38	36	34			32	24	9									
2	32-160	50 X 32	75	4.0	28	8	24-29		33	32	31			30	28	26	23	21	19	18					
3	40-125	65 X 40	100	4.0	20	10	17-21			22	21.5				21	20.5	20	19.5	19	18	16	15	14		
4	50-125	65 X 50	100	4.0	14	13	12-15				17			16.5		16	15.5	15	14.5	14	13.5	13	12	10	8

PERFORMANCE DATA

PERFORMANCE DATA

SHOS SS SERIES (OPENWELL PUMPS) PERFORMANCE TABLE

S. NO	MODEL	SUCTION x DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																											
					HEAD IN (M)	DISCH. IN (LPS)		4	6	8	9	10	11	12	13	15	17	18	19	20	23	25	27	29	30	33	35	36	46						
					HEAD																														
1	32-250	50 X 32	75	15.0	73	10	55-80	82	80	78	75			73	70	66	62	30																	
2	32-200	50 X 32	65	15.0	63	12	47-69		69	68	67			66	64	63	60	55	45	32															
3	40-200	65 X 40	65	15.0	53	17	40-58				64			63	62	60	58	55	53	51	50	48	36	27											
4	50-160	65 X 50	100	15.0	40	17	30-44							44	43.5	43	42	41	40		39.5	39	37	36	33	32	31	28	24	23					
5	65-160	80 X 65	100	15.0	31	30	23-34													35		34.5	34	33	32	31.5	31	29.5	29	28	20				
6	65-125	80 X 65	100	15.0	26	33	22-27															29	28.5	28	27.5	27.3	27	26	25.5	25	18				

S. NO	MODEL	SUCTION x DELIVERY PIPE SIZE (MM)	RECOMMENDED DELIVERY PIPE SIZE (MM)	H.P.	DUTY		HEAD RANGE IN (M)	LPS DISCHARGE																											
					HEAD IN (M)	DISCH. IN (LPS)		4	6	8	10	13	17	18	20	21	24	27	30	34	38	40	42	44	53										
					HEAD																														
1	32-250	50 X 32	65	20	85	13	64-94	96	95	93	91			85	30																				
2	40-250	65 X 40	100	20.0	73	18	55-80	81	80	79.5	79			78	74	73	68	66	24																
3	40-200	65 X 40	65	20.0	60	17	45-66		71	70	69			65	60	57	55	53	42	28															
4	50-160	65 X 50	100	20.0	43	27	32-47							48	47	46.5	46	45.5	45	43	40	37	30	27											
5	65-160	80 X 65	100	20.0	40	30	30-44								44	43.5	43	42.5	42	41	40	38	37	36	35	33	25								

SUBMERSIBLE MOTORS



V4, V6, V8, V10
0.5 H.P. to 252 H.P.
REWINDABLE SUBMERSIBLE MOTORS

FEATURES:

- Wide range of rewindable motors
- Easily Rewinded
- Protection against upthrust high efficiency
- Standardized NEMA head and shaft end

APPLICATIONS:

- Domestic Water Supply
- Over head tanks
- Home pressure boosting
- Construction Site
- Gardens/ Fountains

SPECIAL FEATURES:

- The Shakti submersible motors can be fitted on all NEMA pumps.
- Material variants available in SS 304 & SS 316
- PA Winding
- Mechanical shaft seal Sic/Sic
- Over temperature protection via PT100.

CAPACITOR DATA SINGLE PHASE MCIP/PREMIUM-50Hz

50Hz Model

S. No.	HP/Kw	CAPACITOR		OVERLOAD REALAY	RESET
		START	RUN		
1	0.5/0.37	N/A	15MFD, 440VAC	6	MANUAL
2	0.75/0.55	N/A	20 MFD, 440VAC	6	MANUAL
3	1.0/0.75	N/A	36 MFD, 440VAC	8	MANUAL
4	1.5/1.1	N/A	36 MFD, 440VAC	10	MANUAL
5	2.0/1.5	189-227MFD, 220VAC	50 MFD, 440VAC	16	MANUAL
6	3.0/2.2	189-227MFD *2 NOS 220VAC	70 MFD, 440VAC	25	MANUAL
7	4.0/3.0	189-227MFD *2 NOS 220VAC	80 MFD, 440VAC	30	MANUAL
8	5.0/3.7	189-227MFD *2 NOS 220VAC	80 MFD, 440VAC	30	MANUAL

SUBMERSIBLE PUMPS



V4, V5, V6, V7, V8, V10 & V12
STAINLESS STEEL SUBMERSIBLE PUMPS

PERFORMANCE:

Head, H : Max. 600 m
Discharge : Max. 7350 lpm
Flow, Q : Max. 440 m³/hr
Liquid Temp : 0°C to 60°C

FEATURES:

- High Efficiency
- Long service life as all components are made of Stainless Steel

APPLICATIONS:

- Ground Water supply to water works
- Irrigation in horticulture & agriculture
- Ground water lowering
- Pressure boosting
- Industrial applications

V4 PUMP SET



PUMP SET OD 97 MM

PERFORMANCE CHART

MODEL: QF-1 - V4

Motor Rating	Pump OD 97 MM Del Size 32 MM	M ³ /Hr LPH LPM	0	0.3	0.6	0.9	1.2	1.8	2.4
HP	Stage	LPM	0	5	10	15	20	30	40
0.5	1	HEAD (M)	6	5	4.6	4	3.4	2	0.6
0.5	9		54	45	41.4	36	30.6	18	5.4
0.75	12		72	60	55.2	48	40.8	24	7.2
0.75	15		90	75	69	60	51	30	9
1.0	18		108	90	82.8	72	61.2	36	10.8
1.0	20		120	100	92	80	68	40	12
1.5	25		150	125	115	100	85	50	15
1.5	30		180	150	138	120	102	60	18
2.0	35		210	175	161	140	119	70	21
2.0	40		240	200	184	160	136	80	24
3.0	50		300	250	230	200	170	100	30
3.0	55		330	275	253	220	187	110	33
4.0	65		390	325	299	260	221	130	39

PERFORMANCE CHART

MODEL: QF-2 - V4

Motor Rating	Pump OD 97 MM Del Size 32 MM	M ³ /Hr LPH LPM	1.00	1.40	1.80	2.00	2.40	2.8
HP	Stage	LPM	17	23	30	33	40	47
0.50	6	HEAD (M)	32	29	25	23	16	11
0.50	9		48	44	38	34	24	17
0.75	14		75	68	59	53	37	26
1.00	19		101	93	80	72	51	36
1.50	28		149	137	118	106	75	53
2.00	30		160	147	127	113	80	57
2.00	38		203	186	160	144	102	72
3.00	40		213	196	169	151	107	76
3.00	55		293	269	232	208	147	104

PERFORMANCE CHART

MODEL: QF-5 - V4

Motor Rating	Pump OD 97 MM Del Size 32 MM	M ³ /Hr LPH LPM	1.40	1.80	2.40	3.00	4.00	4.40
HP	Stage	LPM	23	30	40	50	67	73
0.50	6	HEAD (M)	34	32	30	26	15	12
0.75	10		57	54	50	43	25	21
1.00	13		74	70	64	56	33	27
1.50	15		85	81	74	65	38	31
1.50	18		102	97	89	78	45	37
1.50	20		113	108	99	86	50	42
2.00	22		125	119	109	95	55	46
2.00	27		153	146	134	117	68	56
3.00	30		172	164	152	132	81	67
3.00	39		223	214	198	172	105	87
4.00	40		229	219	203	176	108	90
4.00	53		301	292	270	240	159	138
5.00	54		307	297	275	245	162	140
5.00	60		341	330	306	272	180	156

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: QF-6 - V4

Motor Rating	Pump OD 97 MM Del Size 38 MM	M ³ /Hr LPH LPM	1.80 1800 30	2.80 2800 47	4.00 4000 67	5.00 5000 83	6.00 6000 100	6.70 6700 112
0.50	4	HEAD (M)	23	21	19	16	12	8
0.75	6		35	32	29	24	18	12
1.00	8		46	42	38	32	24	16
1.50	12		69	63	57	48	36	24
2.00	17		98	89	81	68	51	34
3.00	21		121	110	100	84	63	42
3.00	25		144	131	119	100	75	50
4.00	33		190	173	157	132	99	66
5.50	38		219	200	181	152	114	76
5.50	44		253	231	209	176	132	88
7.50	52		299	273	247	208	156	104
7.50	60		345	315	285	240	180	120

PERFORMANCE CHART

MODEL: QF-12 - V4

Motor Rating	Pump OD 97 MM Del Size 51 MM	M ³ /Hr LPH LPM	2.00 2000 33	4.00 4000 67	6.00 6000 100	8.00 8000 133	10.00 10000 167	11.00 11000 183
1.00	6	HEAD (M)	33	30	28	25	19	14
1.50	9		50	45	41	37	28	22
2.00	12		66	60	55	49	37	29
3.00	13		72	65	60	53	40	31
3.00	15		83	75	69	62	47	36
3.00	18		99	90	83	74	56	43
4.00	21		116	105	97	86	65	50
5.00	24		132	120	110	98	74	58
5.00	26		143	130	120	107	81	62
5.00	30		165	150	138	123	93	72
5.50	33		182	165	152	135	102	79
7.50	34		187	170	156	139	105	82
7.50	44		242	220	202	180	136	106

PERFORMANCE CHART

MODEL: QF-20 - V4

Motor Rating	Pump OD 97 MM Del Size 51 MM	M ³ /Hr LPH LPM	2.00 2000 33	4.00 4000 67	6.00 6000 100	8.00 8000 133	10.00 10000 167	12.00 12000 200
1.00	4	HEAD (M)	24	24	23	21	20	17
1.50	5		31	30	29	27	26	22
2.00	7		43	41	40	37	35	31
3.00	10		62	60	59	54	52	45
4.00	14		85	82	80	74	70	61
5.50	19		114	110	107	99	94	82
7.50	26		156	151	147	136	129	112
10.00	35		214	206	200	186	175	153

PERFORMANCE CHART

MODEL: QF-25 - V4

Motor Rating	Pump OD 97 MM Del Size 51 MM	M ³ /Hr LPH LPM	6.00 6000 100	9.00 9000 150	11.00 11000 183	12.00 12000 200	14.00 14000 233	18.00 18000 300
2.00	7	HEAD (M)	42	37	34	33	28	17
3.00	8		48	42	39	37	32	19
4.00	11		66	58	54	51	44	26
5.50	15		90	80	74	70	60	36
7.50	20		120	106	98	93	80	48
10.00	28		168	148	137	131	112	67

PERFORMANCE DATA

V5 PUMP SET



PUMP OD 128 MM

MOTOR OD 97 MM

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: QF-10 - V5

Motor Rating	Pump OD 128 MM Del Size 51 MM	M ³ /Hr LPH	6.00	8.00	10.00	12.00	15.00	18.00
HP	Stage	LPM	100	133	167	200	250	300
3.0	7	HEAD (M)	69	64	58	53	44	32
4.0	10		98	92	83	75	63	45
5.5	12		118	110	100	90	76	54
5.5	14		138	128	117	105	89	63
7.5	15		148	138	125	113	95	68
7.5	18		177	165	150	135	114	81
7.5	20		197	183	167	150	127	90

PERFORMANCE CHART

MODEL: QF-15 - V5

Motor Rating	Pump OD 128 MM Del Size 51 MM	M ³ /Hr LPH	6.00	10.00	12.00	14.00	16.00	18.00
HP	Stage	LPM	100	167	200	233	267	300
3.00	6	HEAD (M)	60	57	52	48	43	38
4.00	8		80	76	70	64	57	51
5.50	11		110	105	96	88	78	70
7.50	15		150	143	131	120	107	96

PERFORMANCE CHART

MODEL: QF-30 - V5

Motor Rating	Pump OD 128 MM Del Size 51 MM	M ³ /Hr LPH	8.00	14.00	16.00	18.00	20.00	22.00
HP	Stage	LPM	133	233	267	300	333	367
3.00	5	HEAD (M)	54	45	41	37	31	25
4.00	6		65	55	50	45	38	31
5.50	8		87	74	68	61	52	42
7.50	9		97	83	76	67	58	46
7.50	12		130	111	101	90	77	62

PERFORMANCE CHART

MODEL: QF-50 - V5

Motor Rating	Pump OD 128 MM Del Size 64 MM	M ³ /Hr LPH	12.00	20.00	24.00	28.00	32.00	39.00
HP	Stage	LPM	200	333	400	467	533	650
3.00	2	HEAD (M)	21	19	17	16	13	8
4.00	3		32	28	26	24	20	12
5.50	5		54	48	45	41	35	22
7.50	7		75	67	63	57	49	31

PERFORMANCE DATA

V6 MM PUMP SET



PUMP SET OD 143 MM

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: QF-10 - V6

Motor	Pump OD 143 MM	M ³ /Hr	6.00	8.00	10.00	12.00	15.00	18.00
Rating	Del Size 51 MM	LPH	6000	8000	10000	12000	15000	18000
HP	Stage	LPM	100	133	167	200	250	300
3.0	7	HEAD (M)	69	64	58	53	44	32
4.0	10		98	92	83	75	63	45
5.5	12		118	110	100	90	76	54
5.5	14		138	128	117	105	89	63
7.5	15		148	138	125	113	95	68
7.5	18		177	165	150	135	114	81
7.5	20		197	183	167	150	127	90
10.0	24		236	220	200	180	152	108
12.5	30		295	275	250	225	190	135
15.0	36		354	330	300	270	228	162
20.0	44		433	403	367	330	279	198
25.0	54		531	495	450	405	342	243

PERFORMANCE CHART

MODEL: QF-15 - V6

Motor	Pump OD 143 MM	M ³ /Hr	6.00	10.00	12.00	14.00	16.00	18.00
Rating	Del Size 51 MM	LPH	6000	10000	12000	14000	16000	18000
HP	Stage	LPM	100	167	200	233	267	300
3.00	6	HEAD (M)	60	57	52	48	43	38
4.00	8		80	76	70	64	57	51
5.50	11		110	105	96	88	78	70
7.50	15		150	143	131	120	107	96
10.00	20		200	190	174	160	142	128
12.50	25		250	238	218	200	178	160
15.00	30		300	285	261	240	213	192
17.50	35		350	333	305	280	249	224
20.00	40		400	380	348	320	284	256
25.00	50		500	475	435	400	355	320

PERFORMANCE CHART

MODEL: QF-30 - V6

Motor	Pump OD 143 MM	M ³ /Hr	8.00	14.00	16.00	18.00	20.00	22.00
Rating	Del Size 51 MM	LPH	8000	14000	16000	18000	20000	22000
HP	Stage	LPM	133	233	267	300	333	367
3.00	5	HEAD (M)	54	45	41	37	31	25
4.00	6		65	55	50	45	38	31
5.50	8		87	74	68	61	52	42
7.50	9		97	83	76	67	58	46
7.50	12		130	111	101	90	77	62
10.00	16		172	147	134	119	102	82
12.50	20		214	183	167	148	126	101
15.00	24		258	220	201	178	152	122
17.50	27		290	249	227	202	173	139
20.00	32		346	297	272	242	208	168
25.00	37		400	343	314	279	240	193
30.00	43		466	400	366	326	280	227

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: QF-50 - V6

Motor	Pump OD 143 MM	M ³ /Hr	12.00	20.00	24.00	28.00	32.00	39.00
Rating	Del Size 64 MM	LPH	12000	20000	24000	28000	32000	39000
HP	Stage	LPM	200	333	400	467	533	650
3.00	2	HEAD (M)	21	19	17	16	13	8
4.00	3		32	28	26	24	20	12
5.50	5		54	48	45	41	35	22
7.50	7		75	67	63	57	49	31
10.00	9		96	86	80	73	63	39
12.50	12		127	114	106	97	83	51
15.00	13		137	122	114	103	89	55
17.50	15		159	142	132	120	104	64
20.00	17		180	161	151	137	118	74
25.00	21		223	200	187	170	147	92
30.00	26		275	245	229	208	179	111
35.00	31		328	293	274	249	215	133
40.00	35		372	332	310	283	244	152

PERFORMANCE CHART

MODEL: QF-75 - V6

Motor	Pump OD 143 MM	M ³ /Hr	15.00	40.00	45.00	50.00	55.00	59.8
Rating	Del Size 76 MM	LPH	15000	40000	45000	50000	55000	59800
HP	Stage	LPM	250	667	750	833	917	997
3.00	2 BB	HEAD (M)	17	12	10	8	5	1
4.00	2		24	18	16	14	11	9
5.50	3		38	28	26	23	20	15
7.50	4		50	38	35	31	26	20
10.00	5		62	47	43	37	31	24
12.50	6		75	57	51	45	38	30
15.00	8		100	77	70	62	52	41
17.50	9		113	87	79	70	59	47
20.00	10		125	95	87	77	65	51
25.00	12		150	115	105	93	79	63
30.00	15		187	143	130	115	97	77
35.00	17		213	163	149	132	112	89
40.00	20		251	192	175	155	132	105

PERFORMANCE CHART

MODEL: QF-100 - V6

Motor	Pump OD 143 MM	M ³ /Hr	20.00	40.00	50.00	60.00	70.00	78.0
Rating	Del Size 76 MM	LPH	20000	40000	50000	60000	70000	78000
HP	Stage	LPM	333	667	833	1000	1167	1300
4.00	2 B	HEAD (M)	21	15	13	10	6	1
5.50	2		26	19	17	14	10	5
7.50	3		39	30	26	22	16	10
10.00	4		52	41	35	30	22	14
12.50	5		66	51	44	38	28	18
15.00	6		79	62	54	45	34	22
17.50	8		106	79	73	61	47	31
20.00	9		121	95	83	71	56	37
25.00	10		133	105	92	78	60	41
30.00	12		159	126	110	94	72	50
35.00	15		198	157	136	116	89	60
40.00	17		225	179	155	132	101	69
50.00	21		279	223	194	166	129	89

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: F-20

MODEL F-20	PUMP OD	WITH V4 MOTOR 143 MM	M ³ /Hr	3.0	7.0	12.0	16.0	18.0	21.0	23.0
		WITH V6 MOTOR 147 MM								
Motor Rating		Del Size 51 MM	LPH	3000	7000	12300	16000	18000	21000	23000
HP	Stage		LPM	50	117	205	267	300	350	383
3.0	3	HEAD (M)	44	43	39	33	30	30	23	15
4.0	4		58	57	52	44	40	40	30	20
5.5	5		73	71	65	55	50	50	38	25
7.5	8		116	114	104	88	80	80	60	40
10.0	10		145	142	130	110	100	100	75	50
12.5	12		174	170	156	132	120	120	90	60
15.0	15		218	213	195	165	150	150	113	75
17.5	18		261	256	234	198	180	180	135	90
20.0	20		290	284	260	220	200	200	150	100
25.0	25		363	355	325	275	250	250	188	125

PERFORMANCE CHART

MODEL: F-25

MODEL F-25	PUMP OD	WITH V4 MOTOR 143 MM	M ³ /Hr	9.0	11.0	15.0	18.0	20.0	23.0	27.0
		WITH V6 MOTOR 147 MM								
Motor Rating		Del Size 51 MM	LPH	9000	11000	15000	18000	20000	23000	27000
HP	Stage		LPM	150	183	250	300	333	383	450
3.0	2	HEAD (M)	29	28	26	23	22	22	17	9
4.0	3		44	42	39	35	33	33	26	14
5.0	4		58	56	52	47	44	44	34	18
5.5	5		73	70	65	59	55	55	43	23
7.5	6		87	84	78	70	66	66	51	27
10.0	8		116	112	104	94	88	88	68	36
12.5	10		145	140	130	117	110	110	85	45
15.0	12		174	168	156	140	132	132	102	54
17.5	14		203	196	182	164	154	154	119	63
20.0	16		232	224	208	187	176	176	136	72
25.0	20		290	280	260	234	220	220	170	90

PERFORMANCE DATA

V7 PUMP SET



PUMP SET OD 168 MM

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: QF-101 - V7

Motor Rating	Pump OD 168 MM Del Size 102 MM	M ³ /Hr LPH	18	36	54	60	72	90
HP	Stage	LPM	300	600	900	1000	1200	1500
3.0	1	HEAD (M)	16	13	11	10	7	2.5
5.5	2		32	26	22	20	14	5
10	3		48	39	33	30	21	7.5
12.5	4		64	52	44	40	28	10
17.5	6		96	78	66	60	42	15
25	8		128	104	88	80	56	20
30	9		144	117	99	90	63	22.5
35	11		176	143	121	110	77	27.5
40	14		224	182	154	140	98	35
50	16		256	208	176	160	112	40
60	20		320	260	220	200	140	50
75	24		384	312	264	240	168	60

PERFORMANCE CHART

MODEL: QF-105 - V7

Motor Rating	Pump OD 168 MM Del Size 102 MM	M ³ /Hr LPH	18	36	52.5	60	72	84
HP	Stage	LPM	300	600	875	1000	1200	1400
3	1	HEAD (M)	18	16	13.5	13	12.25	10
7.5	2		36	32	27	26	24.5	20
10	3		54	48	40.5	39	36.75	30
12.5	4		72	64	54	52	49	40
20	6		108	96	81	78	73.5	60
25	8		144	128	108	104	98	80
30	9		162	144	121.5	117	110.25	90
35	11		198	176	148.5	143	134.75	110
45	15		270	240	202.5	195	183.75	150
60	20		360	320	270	260	245	200
75	24		432	384	324	312	294	240

PERFORMANCE CHART

MODEL: QF-110 - V7

Motor Rating	Pump OD 168 MM Del Size 102 MM	M ³ /Hr LPH	12	24	48	60	72	102
HP	Stage	LPM	200	400	800	1000	1200	1700
4.0	1	HEAD (M)	18	16	14	13	12	7
7.5	2		35	32	27	25	23	14
12.5	3		53	48	41	38	35	21
15	4		70	64	54	50	46	28
20	6		105	96	81	75	69	42
25	7		123	112	95	88	81	49
30	8		140	128	108	100	92	56
35	9		158	144	122	113	104	63
40	11		193	176	149	138	127	77
45	12		210	192	162	150	138	84
50	14		245	224	189	175	161	98
60	16		280	256	216	200	184	112
75	20		350	320	270	250	230	140

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: QF-115 - V7

Motor Rating	Pump OD 182 MM Del Size 102 MM	M ³ /Hr LPH	18	36	54	75	90	108
HP	Stage	LPM	300	600	900	1250	1500	1800
4.0	1	HEAD (M)	19.6	17.6	15	12.6	9	4.3
10	2		39.2	35.2	30	25.2	18	8.6
15.0	3		58.8	52.8	45	37.8	27	12.9
17.5	4		78.4	70.4	60	50.4	36	17.2
30	7		137.2	123.2	105	88.2	63	30.1
35	8		156.8	140.8	120	100.8	72	34.4
40	9		176.4	158.4	135	113.4	81	38.7
50	12		235.2	211.2	180	151.2	108	51.6
60	14		274.4	246.4	210	176.4	126	60.2
75	16		313.6	281.6	240	201.6	144	68.8

PERFORMANCE DATA

V8 PUMP SET



PUMP SET OD 182 MM

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: QF-125 - V8

Motor	Pump OD 182 MM	M ³ /Hr	30.0	50.0	60.0	70.00	80.00	100.00
Rating	Del Size 102 MM	LPH	30000	50000	60000	70000	80000	100000
HP	Stage	LPM	500	833	1000	1167	1333	1667
4.0	1	HEAD (M)	18	16	14	13	12	7
7.5	2		36	31	28	26	24	14
10.0	3 B		48	40	37	33	31	15
12.5	3		54	47	42	39	36	21
15.0	4		72	62	56	52	48	28
20.0	5 B		84	71	65	59	55	29
25.0	6		108	93	84	78	72	42
30.0	7		126	109	98	91	84	49
35.0	8		144	124	112	104	96	56
40.0	10		180	155	140	130	120	70

PERFORMANCE CHART

MODEL: QF-160 - V8

Motor	Pump OD 182 MM	M ³ /Hr	50.0	70.0	90.0	100.0	110.00	122.0
Rating	Del Size 102 MM	LPH	50000	70000	90000	100000	110000	122000
HP	Stage	LPM	833	1167	1500	1667	1833	2033
5.00	1	HEAD (M)	17	15	13	12	10	6
7.50	2A		29	26	21	18	14	8
10.00	2		34	30	26	24	20	12
12.50	3B		44	38	31	26	20	12
15.00	3		51	45	39	36	30	18
20.00	4		68	60	52	48	40	24
25.00	5		85	75	65	60	50	30
30.00	6		102	90	78	72	60	36
35.00	7		119	105	91	84	70	42
40.00	8		136	120	104	96	80	48
50.00	9	153	135	117	108	90	54	

PERFORMANCE DATA

V10 PUMP SET



PUMP SET OD 220 MM

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: QF-210 - V10

Motor	Pump OD 220 MM	M ³ /Hr	90.00	120.0	130.0	140.0	150.0	162.0
Rating	Del Size 152 MM	LPH	90000	120000	130000	140000	150000	162000
HP	Stage	LPM	1500	2000	2167	2333	2500	2700
7.50	1A	HEAD (M)	17	14	12	10	8	5
10.00	1		23	20	19	17	15	12
15.00	2 AA		34	28	24	20	16	10
20.00	2A		40	34	31	27	23	17
25.00	3 AA		57	48	43	37	31	22
30.00	3		69	60	57	51	45	36
40.00	4A		86	74	69	61	53	41
50.00	5A		109	94	88	78	68	53

PERFORMANCE CHART

MODEL: QF-270 - V10

Motor	Pump OD 220 MM	M ³ /Hr	120.0	170.0	180.0	190.0	200.0	210.0
Rating	Del Size 152 MM	LPH	120000	170000	180000	190000	200000	210000
HP	Stage	LPM	2000	2833	3000	3167	3333	3500
10.00	1A	HEAD (M)	16	11	9	7	5	3
15.00	1		23	19	18	16	14	13
25.00	2A		39	30	27	23	19	16
30.00	2		46	38	36	32	28	26
40.00	3A		62	49	45	39	33	29
50.00	3		69	57	54	48	42	39
60.00	4		92	76	72	64	56	52
75.00	5		115	95	90	80	70	65

PERFORMANCE DATA

V12 PUMP SET



PUMP SET OD 240 MM

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: QF-360 - V12

Motor	Pump OD 240 MM	M ³ /Hr	150.0	190.0	210.0	230.0	240.00	280.0
Rating	Del Size 152 MM	LPH	150000	190000	210000	230000	240000	280000
HP	Stage	LPM	2500	3167	3500	3833	4000	4667
20.00	1A	HEAD (M)	20	16	14	11	10	3
25.00	1		27	24	23	21	19	11
40.00	2AA		43	37	33	28	25	11
50.00	2A		51	46	42	38	35	18
60.00	2		59	54	50	46	44	29
75.00	3A		83	75	70	63	59	37
85.00	3		90	81	77	71	67	46
100.00	4		119	108	102	93	88	62
125.00	5		148	133	125	114	108	76

PERFORMANCE DATA

V14 PUMP



PUMP OD 289 MM

PERFORMANCE DATA

PERFORMANCE CHART

MODEL: SSP 270 - V14

Motor Rating	Pump OD 289 MM Del Size 175 MM	M ³ /Hr	40.0	120.0	160.0	200.0	240.00	320.0
HP	Stage	LPH	40000	120000	160000	200000	240000	320000
		LPM	668	2004	2672	3340	4008	5344
30	1 L	HEAD (M)	38	30	28	25	21	10
35	1F		44	37	33	30	27	18
40	1D		47	39	35	32	29	20
50	1A		49	41	37	33	30	23
60	2L		76	62	56	50	44	24
75	2D		92	77	70	63	58	42
85	2A		96	80	73	68	62	46
100	3V		128	106	96	87	73	51
125	3A		145	121	111	102	93	71
150	4D		185	155	141	129	117	87
177	4A		194	162	149	137	126	96
177	6W		238	199	181	162	143	90
197	6F		266	220	199	181	164	115
252	6D		277	234	213	194	177	132
252	6A		290	243	223	205	189	146
295	7A		338	283	260	239	221	169
335	8A		387	324	297	274	252	193

PERFORMANCE CHART

MODEL: SSP 300 - V14

Motor Rating	Pump OD 289 MM Del Size 175 MM	M ³ /Hr	80.0	160.0	240.00	280.0	320.00	360.0
HP	Stage	LPH	80000	160000	240000	280000	320000	360000
		LPM	1336	2672	4008	4676	5344	6012
35	1N	HEAD (M)	32	28	23	21	16	10
40	1L		33	29	24	22	17	11
50	1D		44	39	34	31	28	24
60	1A		46	41	36	33	30	26
75	2L		71	62	54	49	41	31
85	2F		84	73	64	59	53	45
100	2D		85	74	65	60	54	46
100	3L		106	93	81	72	62	47
125	3F		126	110	96	89	80	68
150	3D		133	117	103	99	87	76
177	3A		140	123	108	102	95	85
177	4G		155	137	119	109	96	79
177	4F		168	147	129	120	108	92
197	4D		178	156	137	128	118	102
197	5G		193	170	148	135	120	98
228	5F		211	184	162	150	135	116
252	5D		222	195	172	161	148	136
252	6F		252	230	194	180	162	139
295	6D		266	234	206	193	177	156
335	6A		279	245	217	206	192	171
335	7D		310	272	240	224	206	182

PERFORMANCE DATA



PERFORMANCE CHART

MODEL: SSP 360 - V14

Motor	Pump OD 289 MM	M ³ /Hr	80.0	240.00	320.00	360.0	400.0	440.00
Rating	Del Size 175 MM	LPH	80000	240000	320000	360000	400000	440000
HP	Stage	LPM	1336	4008	5344	6012	6680	7348
50	1L	HEAD (M)	38	30	26	23	20	15
60	1F		45	35	31	28	25	21
75	1A		48	38	35	33	30	26
85	2N		70	56	47	42	36	28
100	2L		76	60	54	49	43	34
125	2F		90	70	63	59	54	47
150	2A		98	78	72	68	64	57
150	3L		115	91	82	75	66	53
177	3G		126	100	88	82	74	63
177	3F		135	106	96	70	82	72
197	3D		140	113	103	97	89	79
197	3A		147	118	109	104	97	87
228	4G		167	133	118	110	99	85
228	4F		180	141	128	120	110	96
252	4D		186	150	137	130	120	107
252	5G		208	166	147	137	123	106
295	5F		225	177	161	151	139	122
335	5D		233	189	173	163	150	134
335	6F		270	212	193	182	166	147

PERFORMANCE DATA

CABLE DIMENSIONS AT 1X220 VOLT, 50 HZ

VOLTAGE DROP - 6 %												
MOTOR	HP	KW	I	CABLE SIZE SQUARE MILLIMETERS								
				1.5	2.5	4	6	10	16	25	35	50
LENGTH IN METERS												
V4	0.5	0.37	3.2	244	405	644	959					
V4	0.75	0.55	4.2	196	326	518	771					
V4	1	0.75	5.8	131	217	346	516	848				
V4	1.5	1.1	8.4	85	141	224	335	552	868			
V4	2	1.5	10.6	61	102	162	242	401	633			
V4	3	2.2	16		67	107	161	265	419	644	883	
V4	5	3.7	28			55	83	138	220	341	473	669
MAX. CURRENT FOR CABLE (A)				18.5	25	34	43	60	80	101	126	153

CABLE DIMENSIONS AT 3X415 VOLT, 50 HZ

VOLTAGE DROP - 3 %												
HP	KW	I	CABLE SIZE SQUARE MILLIMETERS									
			1.5	2.5	4	6	10	16	25	35	50	
LENGTH IN METERS												
0.5	0.37	1.2	589	978	1557							
0.75	0.55	1.7	395	657	1046							
1	0.75	2.2	344	570	907							
1.5	1.1	3.1	240	399	635	946						
2	1.5	4.1	182	302	480	715			2786			
3	2.2	6.3	123	205	326	485	795		1877	2534		
4	3	8.2	93	155	247	367	603	943	1425	1926	2614	
5	3.7	9.4	77	128	204	304	500	783				
5.5	4	10.3	71	119	189	281	462	723				
7.5 DOL	5.5	14.2	51	84	135	201	331	518				
7.5 S/D	5.5	14.2	88	147	234	348	572	897				
10 S/D	7.5	17.4	66	111	177	264	434	684				
15 S/D	11	20		96	154	229	378	595	906			
17.5 S/D	13	29.7			106	158	261	409	623	848		
20 S/D	15	33			92	137	226	357	544	742		
25 S/D	18.5	42.5			71	107	176	277	422	576		
30 S/D	22	49.6				95	158	248	377	513	702	
35 S/D	26	57.3					132	208	316	431	592	
40 S/D	30	67.5					116	182	277	377	516	

HEAD LOSSES IN PLASTIC PIPES

Figures indicate head in meters per 100 meters of straight pipes.

QUANTITY OF WATER			HEAD LOSSES IN WATER PIPES										
			PELM/PEH PN 10										
			PELM				PEH						
			NOMINAL PIPE SIZE IN MM										
m ³ /hr	Ltr./min.	Litres/sec.	25	32	40	50	63	75	90	110	125	140	160
0.6	10	0.16	0.64	0.19	0.06								
0.9	15	0.25	1.35	0.40	0.13	0.04							
1.2	20	0.33	2.31	0.69	0.23	0.07							
1.5	25	0.42	3.49	1.05	0.35	0.11	0.03						
1.8	30	0.50	4.89	1.47	0.49	0.16	0.05						
2.1	35	0.58	6.50	1.95	0.66	0.22	0.07						
2.4	40	0.67	8.33	2.50	0.84	0.28	0.09	0.03					
3	50	0.83	12.59	3.78	1.27	0.43	0.14	0.06					
3.6	60	1.00	17.64	5.30	1.79	0.6	0.19	0.08	0.03				
4.2	70	1.12	23.46	7.06	2.38	0.8	0.26	0.11	0.04				
4.8	80	1.33	30.04	9.03	3.05	1.03	0.33	0.14	0.05				
5.4	90	1.50	37.35	11.23	3.79	1.28	0.41	0.17	0.07	0.02			
6	100	1.67	45.39	13.65	4.61	1.55	0.50	0.21	0.08	0.03			
7.5	125	2.08	68.59	20.63	6.96	2.35	0.76	0.32	0.13	0.05	0.02		
9	150	2.50		28.91	9.76	3.29	1.07	0.45	0.18	0.07	0.03		
10.5	175	2.92		38.46	12.98	4.38	1.42	0.60	0.25	0.09	0.05		
12	200	3.33		49.23	16.62	5.61	1.82	0.78	0.32	0.12	0.06	0.03	
15	250	4.17			25.12	8.48	2.75	1.17	0.48	0.18	0.09	0.05	0.02
18	300	5.00			35.2	11.88	3.86	1.65	0.68	0.25	0.13	0.07	0.04
24	400	6.67				20.23	6.57	2.81	1.15	0.43	0.23	0.13	0.07
30	500	8.33				30.58	9.93	4.25	1.75	0.65	0.35	0.20	0.10
36	600	10.00				42.85	13.91	5.95	2.45	0.92	0.49	0.28	0.14
42	700	11.70				56.99	18.51	7.92	3.26	1.22	0.66	0.38	0.19
48	800	13.30					23.69	10.14	4.17	1.57	0.84	0.48	0.25
54	900	15.00					29.46	12.61	5.19	1.95	1.05	0.60	0.31
60	1000	16.70					35.81	15.33	6.31	2.37	1.27	0.73	0.38
75	1250	20.80						23.16	9.54	3.59	1.92	1.11	0.58
90	1500	25.00						32.46	13.36	5.03	2.70	1.55	0.81
105	1750	29.00						43.17	17.78	6.69	3.59	2.07	1.08
120	2000	33.30							22.76	8.57	4.60	2.65	1.38
150	2500	41.70							34.39	12.95	6.95	4.00	2.09
180	3000	50.00							48.19	18.15	9.74	5.61	2.93
240	4000	66.70								30.91	16.59	9.56	4.99
300	5000	83.30									25.07	14.44	7.54

The table is based on a nomogram.
 Roughness: K = 0.01 mm.
 Water temperature: t = 10° C.

Most common reasons behind Pump Failures

- If a wrong model is chosen, there's a high chance of Pump failure.
- If poor quality accessories such as Starter, Cable, Pipes, Panel, Valves etc. is used the pump will fail.
- Pump failure is also due to wrong installation methods, by unskilled and untrained manpower.
- It could also be due to poor field conditions such as low/high voltage, sandy/saline water, change in water level etc.
- Due to other reasons like improper handling etc.

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