

**BOREWELL
SUBMERSIBLE
PUMP SETS**

5"



125 mm (5") Submersible Pump Sets

125 mm (5") with Water Filled Motor

DESCRIPTION

Varuna brand makes reliable, efficient and durable Submersible pump sets with best quality as per IS 9283:2013. Following are the salient features of Submersible pump sets with Water filled Motor.

SALIENT FEATURES

- Dynamically balanced rotating parts to ensure minimum noise and vibration-free operation.
- Accurately machined on CNC machine to get reliable performance and long life.
- Pump sets perform in wide voltage band.
- Starts easily at low voltage.
- Metal inserted with sand guard to improve life in sandy bore.
- Manufactured using a much sophisticated process hence ensuring more reliability in performance.
- Heavy Duty Carbon thrust bearing with German Technology.
- Products are available with NRV which reduces the thrust load of back pressure.
- Motors are designed using multi layer PVC insulated wire for better reliability and easy repairing at remote location.

Material of Construction

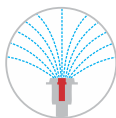
MOTOR DETAILS

Stator	: Insulated varnish using vacuum impregnation method
Rotor	: Copper Rotor/Aluminum pressure die-cast
Motor Body	: Stainless Steel
Thrust Bearing	: Self aligned carbon Vs. Stainless steel thrust bearing that withstands high axial thrust load in water lubrication
Winding	: Multi Layer PVC insulated wire
Cable Sealing	: Nitrile rubber bush locking to protect any foreign
Arrangement	Arrangement particles entering the motor
Journal Bearings	: Gun Metal Bush with 2% nickel and additional centrifugal molding process to avoid chance of warm out
Pressure Diaphragm	: Sufficient size to contain expansion of water inside the Diaphragm motor and avoid the defeat of cooling water

PUMP DETAILS

Bowl	: Glass Filled Noryl/Cast Iron
Impeller	: Glass Filled quality abrasion resistant Noryl/Cast Iron and Stainless Steel
Shaft	: Chrome Steel
Wearing Rings	: High Quality Abrasion resistant Stainless Steel
Suction Casing	: Heavy Duty casting material to get proper grip on motor as well as to provide path for suction of water.
Seal	: Carbon Ceramic Seal
Non Return Valve	: FG 260 to reduce the thrust generated due to back pressure of long pipe line at the time of switch off hence leading to increase the life of the pump

Applications



**SPRINKLER
IRRIGATION**



**DRIP IRRIGATION
SYSTEM**



**INDUSTRIAL
APPLICATION**



**BUNGALOWS &
HOUSING COMPLEXES**



**HIGH RISE
BUILDINGS**

V5**SUITABLE FOR 131 mm BOREWELL OR ABOVE (Min.Bore Dia. 131mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 200-240 VOLTS SINGLE PHASE / 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY. Maximum Motor OD :- 122 mm & Pump O.D. :- 127 mm

OUTLET SIZE :- 50mm

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	110	125	150	170	190	230	260
VSH:51CS	2.20	3.00	5		50	42	39	36	33	29	24	19
VSH:51CS	2.20	3.00	6		60	50	47	43	39	35	29	23
VSH:51CS	3.00	4.00	8		80	66	63	57	52	47	39	31
VSH:51CS	3.70	5.00	10		100	83	79	71	65	59	49	39
VSH:51CS	4.50	6.00	12		120	99	95	86	78	71	59	47
VSH:51CS	5.50	7.50	14		140	116	110	100	91	82	68	54

OUTLET SIZE :- 50mm

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	135	160	190	215	250	270	300
VSH:52CS	2.20	3.00	4		40	34	32	28	26	23	20	16
VSH:52CS	3.70	5.00	6		60	50	47	42	39	35	30	24
VSH:52CS	3.70	5.00	8		80	67	63	56	52	46	40	32
VSH:52CS	4.50	6.00	10		100	84	79	70	65	58	50	40
VSH:52CS	5.50	7.50	12		120	101	95	84	78	69	60	48
VSH:52CS	7.50	10.00	14		140	117	110	98	91	81	70	56

V5**SUITABLE FOR 131 mm BOREWELL OR ABOVE (Min.Bore Dia. 131mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 200-240 VOLTS SINGLE PHASE / 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY. Maximum Motor OD :- 122 mm & Pump O.D. :- 127 mm

OUTLET SIZE :- 75mm

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM					
	kW	H.P.			0	225	275	475	570	650
VS 51	2.2	3.0	3		28	25	23	20	16.5	13
VS 51	3.0	4.0	3		28	25	23	20	16.5	13
VS 51	3.7	5.0	4		37.5	33.5	31	27	21.5	17.5
VS 51	4.5	6.0	5		47	42	38	33	27	22
VS 51	5.5	7.5	6		56	50	46	39.5	32.5	26.5
VS 51	7.5	10.0	8		75	67	60.5	52.5	43.5	35

Note : Single Phase Motors are available up to 7.5 HP

**BOREWELL
SUBMERSIBLE
PUMP SETS**

6"



150 mm (6") Submersible Pump Sets

150 mm (6") with Water Filled Motor

DESCRIPTION

Varuna brand makes reliable, efficient and durable Submersible pump sets of best quality as per IS 9283:2013. Following are the salient features of Submersible pump sets with Water filled Motor.

SALIENT FEATURES

- Motor and Pump come in a single unit for easy installation.
- Pump sets perform in wider voltage band.
- Pump sets also available in single phase and phase to phase.
- Heavy Duty Carbon thrust bearing with German Technology.
- Superior performance as compared to competitors.
- CI bowl makes design strong and easy to repair.
- Metal Inserted with sand guard to increase life in sandy bore.
- Product available up to 3.0 HP.

Material of Construction

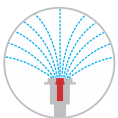
MOTOR DETAILS

Stator	: Insulated varnish using vacuum impregnation method
Rotor	: Copper Rotor/Aluminum pressure die-cast
Motor Body	: Stainless Steel
Thrust Bearing	: Self aligned carbon Vs. Stainless steel thrust bearing that withstands high axial thrust load in water lubrication
Winding	: Multi Layer PVC insulated wire
Cable Sealing Arrangement	: Nitrile rubber bush locking to protect any foreign particles entering the motor
Journal Bearings	: Gun Metal Bush with 2% nickel and additional centrifugal molding process to avoid chance of warm out
Pressure Diaphragm	: Sufficient size to contain expansion of water inside the motor and avoid the defeat of cooling water

PUMP DETAILS

Bowl	: Cast Iron
Impeller	: Glass Filled quality abrasion resistant Noryl
Shaft	: Chrome Steel
Wearing Rings	: High Quality Abrasion resistant Stainless Steel
Suction Casing	: Heavy Duty casting material to get proper grip on motor as well as provide path for suction of water. SS Strainer is also provided to protect against foreign particles
Seal	: Carbon Ceramic Seal
Non Return Valve	: FG 260 to reduce the thrust generated due to back pressure of long pipe line at the time of switch off hence leading to increase in the life of the Pump

Applications



SPRINKLER
IRRIGATION



DRIP IRRIGATION
SYSTEM



INDUSTRIAL
APPLICATION



CIVIL & DOMESTIC
WATER SUPPLY



AGRICULTURE
WATER SUPPLY



FIRE FIGHTING
SYSTEM

V6 Slim

SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 200-240 VOLTS SINGLE PHASE / 380-415 VOLTS THREE PHASE, 50 Hz. A.C. Maximum Motor OD :- 122mm & Pump OD :- 142mm

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM					
	kW	H.P.			0	50	90	110	120	140
VSH:61BN (RSS)	2.2	3.0	8		85	73	68	62	56	50

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	95	112	120	135	150	170	190
VSH:62N (RSS)	2.2	3.0	6		65	58	52	50	47	41	35	25

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	140	165	185	200	230	250	270
VSH:64N (RSS)	2.2	3.0	5		59	53	50	47	44	37	33	28
VSH:64N (RSS)	3.7	5.0	8		94	85	80	75	70	59	53	45

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	130	175	215	220	245	280	325
VSH:64BN (RSS)	3.7	5.0	6		73	64	60	55	54	50	42	30

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	235	290	300	320	350	370	390
VSH:65N (RSS)	3.0	4.0	4		52	44	40	38	36	32	28	25
VSH:65N (RSS)	3.7	5.0	5		65	55	50	48	45	40	35	31
VSH:65N (RSS)	5.5	7.5	8		104	88	80	77	72	64	56	50

Note : Single Phase Motors are available up to 7.5 HP

V6

SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY. Maximum Motor OD :- 142 mm & Pump OD. :- 142 mm

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM					
	kW	H.P.			0	50	90	110	120	140
VSH:61N	2.2	3.0	8		85	73	68	62	56	50
VSH:61N	3.0	4.0	10		106	93	85	80	74	65
VSH:61N	3.7	5.0	13		138	108	96	88	78	71
VSH:61N	3.7	5.0	14		148	116	103	95	84	76
VSH:61N	4.5	6.0	16		170	150	140	128	120	104
VSH:61N	5.5	7.5	18		191	169	158	144	135	117
VSH:61N	5.5	7.5	20		212	190	175	162	152	134
VSH:61N	7.5	10.0	24		254	228	210	195	183	162
VSH:61N	9.3	12.5	30		318	285	263	243	228	201

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	95	112	120	135	150	170	190
VSH:62N	2.2	3.0	6		65	58	52	50	47	41	35	25
VSH:62N	3.0	4.0	8		87	77	69	67	63	55	47	33
VSH:62N	3.7	5.0	10		108	96	87	83	78	68	58	42
VSH:62N	3.7	5.0	12		130	115	105	100	94	83	70	50
VSH:62N	4.5	6.0	12		130	115	105	100	94	83	70	50
VSH:62N	4.5	6.0	14		152	134	123	117	110	97	82	58
VSH:62N	5.5	7.5	14		152	134	123	117	110	97	82	58
VSH:62N	5.5	7.5	16		173	153	140	133	125	111	93	67
VSH:62N	7.5	10.0	18		195	173	158	150	141	125	105	75
VSH:62N	7.5	10.0	20		217	192	175	167	157	138	117	83
VSH:62N	9.3	12.5	24		260	230	210	200	188	166	140	100
VSH:62N	9.3	12.5	28		303	268	245	233	219	194	163	117
VSH:62N	11.0	15.0	30		325	288	263	250	235	208	175	125

Note : Single Phase Motors are available up to 7.5 HP

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	140	165	185	200	230	250	270
VSH:64N	2.2	3.0	4		47	42	40	38	35	30	26	22
VSH:64N	2.2	3.0	5		59	53	50	47	44	37	33	28
VSH:64N	3.0	4.0	6		71	64	60	56	53	44	40	34
VSH:64N	3.7	5.0	8		94	85	80	75	70	59	53	45
VSH:64N	4.5	6.0	10		118	106	100	94	88	74	66	56
VSH:64N	5.5	7.5	12		142	127	120	113	106	89	79	67
VSH:64N	7.5	10.0	14		165	148	140	132	123	104	92	78
VSH:64N	7.5	10.0	16		189	170	160	150	141	118	106	90
VSH:64N	9.3	12.5	18		213	191	190	169	159	133	119	101
VSH:64N	9.3	12.5	20		236	212	200	188	176	148	132	112
VSH:64N	11.0	15.0	24		283	254	240	226	211	178	158	134

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	130	175	215	220	245	280	325
VSH:64BN	2.2	3.0	4		48	43	40	37	36	33	28	20
VSH:64BN	3.7	5.0	6		73	64	60	55	54	50	42	30
VSH:64BN	4.5	6.0	8		97	85	80	73	72	67	56	40
VSH:64BN	5.5	7.5	10		122	107	100	92	90	83	70	50
VSH:64BN	7.5	10.0	12		146	128	120	110	108	100	84	60
VSH:64BN	7.5	10.0	13		158	139	130	119	117	108	91	65
VSH:64BN	9.3	12.5	15		183	160	150	138	135	125	105	75
VSH:64BN	9.3	12.5	16		195	171	160	147	144	133	112	80
VSH:64BN	11.0	15.0	20		243	213	200	183	180	167	140	100
VSH:64BN	15.0	20.0	25		304	267	250	229	225	208	175	125

Note : Single Phase Motors are available up to 7.5 HP

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	235	290	300	320	350	370	390
VSH:65N	3.7	5.0	5		65	55	50	48	45	40	35	31
VSH:65N	4.5	6.0	6		78	66	60	58	54	48	42	37
VSH:65N	5.5	7.5	8		104	88	80	77	72	64	56	50
VSH:65N	7.5	10.0	10		130	110	100	96	90	80	70	62
VSH:65N	9.3	12.5	11		143	121	110	106	99	88	77	68
VSH:65N	9.3	12.5	12		156	132	120	115	108	96	84	74
VSH:65N	9.31	2.5	13		169	143	130	125	117	104	91	81
VSH:65N	11.0	15.0	14		182	154	140	134	126	112	98	87
VSH:65N	11.0	15.0	15		195	165	150	144	135	120	105	93
VSH:65N	13.0	17.5	16		208	176	160	154	144	128	112	99
VSH:65N	13.0	17.5	17		221	187	170	163	153	136	119	105
VSH:65N	15.0	20.0	20		260	220	200	192	180	160	140	124
VSH:65N	18.5	25.0	25		325	275	250	240	225	200	175	155
VSH:65N	22.5	30.0	30		390	330	300	288	270	240	210	186

Note : Single Phase Motors are available up to 7.5 HP



SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)
 APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.
 Maximum Motor OD :- 142 mm & Pump OD. :- 142 mm

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			100	105	111	118	126	142	158	179	200	
VSH:61N HF	2.20	3.00	8		86	80	77	69	67	63	55	47	33	
VSH:61N HF	3.00	4.00	10		108	100	96	87	83	78	68	58	42	
VSH:61N HF	3.70	5.00	12		130	120	115	105	100	94	83	70	50	
VSH:61N HF	3.70	5.00	14		151	140	134	123	117	110	97	82	58	
VSH:61N HF	4.50	6.00	16		173	160	153	140	133	125	111	93	67	
VSH:61N HF	5.50	7.50	18		194	180	173	158	150	141	125	105	75	
VSH:61N HF	5.50	7.50	20		216	200	192	175	167	157	138	117	83	
VSH:61N HF	7.50	10.00	24		259	240	230	210	200	188	166	140	100	
VSH:61N HF	9.30	12.50	30		324	300	288	263	250	235	208	175	125	

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			115	142	147	173	194	210	242	263	284	
VSH:62N HF	2.20	3.00	6		73	66	64	60	56	53	44	40	34	
VSH:62N HF	3.00	4.00	8		97	88	85	80	75	70	59	53	45	
VSH:62N HF	3.70	5.00	10		122	110	106	100	94	88	74	66	56	
VSH:62N HF	4.00	6.00	12		146	132	127	120	113	106	89	79	67	
VSH:62N HF	5.50	7.50	14		170	154	148	140	132	123	104	92	78	
VSH:62N HF	5.50	7.50	16		195	176	170	160	150	141	118	106	90	
VSH:62N HF	7.50	10.00	18		219	198	191	190	169	159	133	119	101	
VSH:62N HF	7.50	10.00	20		243	220	212	200	188	176	148	132	112	
VSH:62N HF	9.30	12.50	24		292	264	254	240	226	211	178	158	134	
VSH:62N HF	11.00	15.00	28		341	308	297	280	263	246	207	185	157	
VSH:62N HF	13.00	17.50	30		365	330	318	300	282	264	222	198	168	
VSH:62N HF	13.00	17.50	32		389	352	340	320	300	283	236	212	180	

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			147	179	189	210	226	231	257	294	341	
VSH:64N HF	2.20	3.00	4		49	48	43	40	37	36	33	28	20	
VSH:64N HF	3.00	4.00	6		73	72	64	60	55	54	50	42	30	
VSH:64N HF	3.70	5.00	8		98	96	85	80	73	72	67	56	40	
VSH:64N HF	4.00	6.00	10		122	120	107	96	92	90	83	70	50	
VSH:64N HF	5.50	7.50	12		146	144	128	120	110	108	100	84	60	
VSH:64N HF	7.50	10.00	15		183	180	160	150	138	135	125	105	75	
VSH:64N HF	7.50	10.00	16		195	192	171	160	147	144	133	112	80	
VSH:64N HF	9.30	12.50	20		244	240	213	200	183	180	167	140	100	
VSH:64N HF	11.00	15.00	22		268	264	235	220	202	198	183	154	110	
VSH:64N HF	13.00	17.50	25		305	300	267	250	229	225	208	175	125	
VSH:64N HF	15.00	20.00	32	390	384	341	320	294	288	267	224	160		

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			119	223	276	285	304	333	352	371
VSH:64BN HF	3.00	4.00	5		60	55	50	48	45	40	35	31
VSH:64BN HF	3.70	5.00	6		72	66	60	58	54	48	42	37
VSH:64BN HF	4.00	6.00	8		96	88	80	77	72	64	56	50
VSH:64BN HF	5.50	7.50	10		120	110	100	96	90	80	70	62
VSH:64BN HF	7.50	10.00	12		144	132	120	115	108	96	84	74
VSH:64BN HF	7.50	10.00	13		156	143	130	125	117	104	91	81
VSH:64BN HF	9.30	12.50	15		180	165	150	144	135	120	105	93
VSH:64BN HF	11.00	15.00	16		192	176	160	154	144	128	112	99
VSH:64BN HF	13.00	17.50	20		240	220	200	192	180	160	140	124
VSH:64BN HF	15.00	20.00	25		300	275	250	240	225	200	175	155

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			232	254	287	320	333	355	389	410	433	
VSH:65N HF	3.7	5.0	5		62	58	54	50	46	43	38	34	30	
VSH:65N HF	4.5	6.0	6		74	70	65	60	55	52	46	41	36	
VSH:65N HF	5.5	7.5	8		99	93	86	80	74	69	61	54	48	
VSH:65N HF	7.5	10.0	10		124	116	108	100	92	86	76	68	60	
VSH:65N HF	9.31	2.5	11		136	128	119	110	101	95	84	75	66	
VSH:65N HF	9.31	2.5	12		149	139	130	120	110	103	91	82	72	
VSH:65N HF	9.31	2.5	13		161	151	140	130	120	112	99	88	78	
VSH:65N HF	11.0	15.0	14		174	162	151	140	129	120	106	95	84	
VSH:65N HF	11.0	15.0	15		186	174	162	150	138	129	114	102	90	
VSH:65N HF	13.0	17.5	16		198	186	173	160	147	138	122	109	96	
VSH:65N HF	13.0	17.5	17		211	197	184	170	156	146	129	116	102	
VSH:65N HF	15.0	20.0	20		248	232	216	200	184	172	152	136	120	
VSH:65N HF	18.5	25.0	25		310	290	270	250	230	215	190	170	150	
VSH:65N HF	22.5	30.0	30		372	348	324	300	276	258	228	204	180	

V6**SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 142 mm & Pump OD. :- 147 mm

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	50	75	96	121	145	165	178	195	206
VSS 50H	2.2	3.0	6		94	90	84	78	66	60	48	36	24	12
VSS 50H	3.0	4.0	8		125	120	112	104	88	80	64	48	32	16
VSS 50H	3.7	5.0	10		156	150	140	130	110	100	80	60	40	20
VSS 50H	4.5	6.0	12		187	180	168	156	132	120	96	72	48	24
VSS 50H	5.5	7.5	15		234	225	210	195	165	150	120	90	60	30
VSS 50H	7.5	10.0	20		312	300	280	260	220	200	160	120	80	40
VSS 50H	9.3	12.5	24		374	360	336	312	264	240	192	144	96	48

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	90	115	135	150	180	200	230	240	250
VSS 60H	2.2	3.0	5		78	75	68	64	58	51	41	30	21	15
VSS 60H	3.0	4.0	7		109	105	95	90	81	71	57	42	29	21
VSS 60H	3.7	5.0	8		125	120	109	102	93	82	66	48	34	24
VSS 60H	4.5	6.0	10		156	150	136	128	116	102	82	60	42	30
VSS 60H	5.5	7.5	12		187	180	163	153	139	123	99	72	51	36
VSS 60H	5.5	7.5	13		203	195	177	166	151	133	107	78	55	39
VSS 60H	7.5	10.0	16		250	240	218	205	186	163	131	96	67	48
VSS 60H	9.3	12.5	20		312	300	272	256	232	204	164	120	84	60
VSS 60H	11.0	15.0	23		359	345	313	294	267	235	189	138	97	69
VSS 60H	11.0	15.0	24		374	360	326	307	278	245	197	144	101	72
VSS 60H	13.0	17.5	27		421	405	367	346	313	275	221	162	113	81
VSS 60H	15.0	20.0	30	468	450	408	384	348	306	246	180	126	90	

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	130	145	175	195	210	240	265	290	300
VSS 80H	2.2	3.0	4		62	58	55	52	48	45	38	32	24	18
VSS 80H	3.0	4.0	5		78	72	69	65	60	56	48	40	30	22
VSS 80H	3.7	5.0	6		93	87	82	78	72	68	57	48	36	27
VSS 80H	4.5	6.0	7		109	102	97	91	84	78	67	56	42	32
VSS 80H	4.5	6.0	8		124	116	110	104	96	90	76	64	48	36
VSS 80H	5.5	7.5	10		155	145	138	130	120	112	95	80	60	45
VSS 80H	7.5	10.0	12		186	173	166	156	144	135	114	96	72	53
VSS 80H	7.5	10.0	13		202	188	179	169	156	146	124	104	78	58
VSS 80H	9.31	2.5	15		232	218	206	195	180	169	142	120	90	68
VSS 80H	11.0	15.0	18		279	261	248	234	216	202	171	144	108	81
VSS 80H	11.0	15.0	19		294	276	261	247	228	214	180	152	114	86
VSS 80H	13.0	17.5	21		326	305	290	273	252	235	200	168	126	95
VSS 80H	13.0	17.5	22		341	319	302	286	264	248	209	176	132	99
VSS 80H	15.0	20.0	24		372	348	331	312	288	269	228	192	144	108
VSS 80H	15.0	20.0	25	388	362	344	325	300	281	238	200	150	112	
VSS 80H	18.5	25.0	30	465	435	412	390	360	338	285	240	180	135	

Note : Single Phase Motors are available up to 7.5 HP

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	150	200	250	270	310	360	380	400	
VSS 100H	2.2	3.0	3		50	46	41	37	35	29	23	19	16	
VSS 100H	3.0	4.0	4		67	61	55	49	47	39	31	25	21	
VSS 100H	3.7	5.0	5		83	77	68	62	58	48	38	32	27	
VSS 100H	4.5	6.0	6		100	92	82	74	70	58	46	38	32	
VSS 100H	5.5	7.5	8		133	123	109	99	93	77	61	51	43	
VSS 100H	7.5	10.0	10		167	153	137	123	117	97	77	63	53	
VSS 100H	9.31	2.5	12		200	184	164	148	140	116	92	76	64	
VSS 100H	11.0	15.0	15		250	230	205	185	175	145	115	95	80	
VSS 100H	13.0	17.5	17		284	260	233	209	199	165	131	107	90	
VSS 100H	13.0	17.5	18		300	276	246	222	210	174	138	114	96	
VSS 100H	15.0	20.0	20	333	307	273	247	233	193	153	127	107		
VSS 100H	18.5	25.0	25	417	383	342	308	292	242	192	158	133		
VSS 100H	22.5	30.0	30	500	460	410	370	350	290	230	190	160		

OUTLET SIZE :- 50mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	210	250	300	350	375	415	430	465	
VSS 125H	3.0	4.0	3		48	45	42	38	34	30	24	20	18	
VSS 125H	3.7	5.0	4		64	60	56	51	45	40	32	27	24	
VSS 125H	4.5	6.0	5		80	75	70	63	57	50	40	33	30	
VSS 125H	5.5	7.5	6		96	90	84	76	68	60	48	40	36	
VSS 125H	7.5	10.0	8		128	120	112	101	91	80	64	53	48	
VSS 125H	9.31	2.5	10		160	150	140	127	113	100	80	67	60	
VSS 125H	11.0	15.0	12		192	180	168	152	136	120	96	80	72	
VSS 125H	13.0	17.5	14		224	210	196	177	159	140	112	93	84	
VSS 125H	15.0	20.0	16		256	240	224	203	181	160	128	107	96	
VSS 125H	18.5	25.0	20		320	300	280	253	227	200	160	133	120	
VSS 125H	22.5	30.0	24	384	360	336	304	272	240	192	160	144		

Note : Single Phase Motors are available up to 7.5 HP

OUTLET SIZE :- 65mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	215	290	360	410	470	535	580	640	650
VSS 150H	2.2	3.0	2		32	30	28	26	24	20	16	12	8	5
VSS 150H	3.7	5.0	3		48	45	42	39	36	31	25	19	13	7
VSS 150H	4.5	6.0	4		64	60	56	52	48	41	33	25	17	10
VSS 150H	5.5	7.5	5		80	75	70	65	60	51	41	31	21	12
VSS 150H	7.5	10.0	7		112	105	98	91	84	71	57	43	29	17
VSS 150H	9.3	12.5	8		128	120	112	104	96	82	66	50	34	19
VSS 150H	11.0	15.0	10		160	150	140	130	120	102	82	62	42	24
VSS 150H	13.0	17.5	12		192	180	168	156	144	122	98	74	50	29
VSS 150H	15.0	20.0	13		208	195	182	169	156	133	107	81	55	31
VSS 150H	18.5	25.0	17		272	255	238	221	204	173	139	105	71	41
VSS 150H	22.5	30.0	20	320	300	280	260	240	204	164	124	84	48	

OUTLET SIZE :- 65mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	135	245	395	530	585	690	770	835	880
VSS 200H	3.0	4.0	2		32	30	28	26	22	21	15	11	8	4
VSS 200H	4.5	6.0	3		48	45	42	39	33	32	23	17	12	6
VSS 200H	5.5	7.5	4		64	60	56	52	44	42	30	22	16	8
VSS 200H	7.5	10.0	5		80	75	70	65	55	53	38	28	20	10
VSS 200H	9.3	12.5	6		96	90	84	78	66	63	45	33	24	12
VSS 200H	11.0	15.0	8		128	120	112	104	88	84	60	44	32	16
VSS 200H	13.0	17.5	9		144	135	126	117	99	95	68	50	36	18
VSS 200H	15.0	20.0	10		160	150	140	130	110	105	75	55	40	20
VSS 200H	18.5	25.0	13		208	195	182	169	143	137	98	72	52	26
VSS 200H	22.5	30.0	15		240	225	210	195	165	158	113	83	60	30

Note : Single Phase Motors are available up to 7.5 HP

V6

SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 142 mm & Pump OD. :- 142 mm

OUTLET SIZE :- 65mm (ON DEMAND CAN PROVIDE 75mm)

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	335	410	420	475	550	620	650
VS 60N	2.2	3.0	3		29	24	22	21	20	18	15	14
VS 60N	3.0	4.0	4		39	32	30	29	27	24	21	19
VS 60N	3.7	5.0	5		49	39	37	36	34	30	26	23
VS 60N	4.5	6.0	6		59	47	44	44	41	36	31	28
VS 60N	5.5	7.5	7		68	55	52	51	47	42	36	32
VS 60N	5.5	7.5	8		78	63	59	58	54	48	41	37
VS 60N	7.5	10.0	10		98	79	74	73	68	60	51	46
VS 60N	9.3	12.5	12		117	95	89	87	81	72	62	56
VS 60N	11.0	15.0	15		146	118	111	109	101	90	77	69
VS 60N	15.0	20.0	20		195	158	148	145	135	120	103	93

OUTLET SIZE :- 75mm (ON DEMAND CAN PROVIDE 65mm)

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	480	500	550	600	680	770	860
VS 61N	3.0	4.0	3		34	26	25	24	22	19	15	10
VS 61N	3.7	5.0	4		45	35	34	32	29	25	20	13
VS 61N	4.5	6.0	5		56	44	43	40	36	31	25	16
VS 61N	5.5	7.5	6		68	53	51	48	44	38	30	20
VS 61N	7.5	10.0	7		79	61	60	56	51	44	35	23
VS 61N	7.5	10.0	8		90	70	68	64	58	50	40	26
VS 61N	9.3	12.5	9		101	79	77	72	65	56	45	29
VS 61N	9.3	12.5	10		113	88	85	80	73	63	50	33
VS 61N	11.0	15.0	11		124	96	94	88	80	69	55	36
VS 61N	11.0	15.0	12		135	105	102	96	87	75	60	39
VS 61N	13.0	17.5	14		158	123	119	112	102	88	70	46
VS 61N	15.0	20.0	16		180	140	136	128	116	100	80	52
VS 61N	18.5	25.0	20		225	175	170	160	145	125	100	65

Note : Single Phase Motors are available up to 7.5 HP

OUTLET SIZE :- 75mm (ON DEMAND CAN PROVIDE 65mm)

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	480	580	650	750	820	880	950
VS 63N	3.7	5.0	3		36	27	26	24	20	17	13	11
VS 63N	4.5	6.0	4		48	36	34	32	26	22	18	14
VS 63N	5.5	7.5	5		60	45	43	40	33	28	22	18
VS 63N	7.5	10.0	6		72	54	52	48	40	34	26	22
VS 63N	9.3	12.5	7		84	63	60	56	46	39	31	25
VS 63N	9.3	12.5	8		96	72	69	64	53	45	35	29
VS 63N	11.0	15.0	10		120	90	86	80	66	56	44	36
VS 63N	13.0	17.5	11		132	99	95	88	73	62	48	40
VS 63N	15.0	20.0	12	144	108	103	96	79	67	53	43	

OUTLET SIZE :- 75 mm (ON DEMAND CAN PROVIDE 100mm)

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	530	660	710	850	930	1090	1255
VS 64N	3.7	5.0	2		24	20	19	18	17	16	14	10
VS 64N	4.5	6.0	3		36	30	27	26	25	24	21	15
VS 64N	5.5	7.5	4		48	40	37	35	33	32	27	21
VS 64N	7.5	10.0	5		60	50	46	44	41	40	34	26
VS 64N	9.3	12.5	6		72	60	56	53	50	48	41	32
VS 64N	9.3	12.5	7		84	70	65	61	58	56	47	37
VS 64N	11.0	15.0	8		96	80	74	70	66	64	54	42
VS 64N	13.0	17.5	9		108	90	83	79	74	72	61	47
VS 64N	15.0	20.0	10	120	100	93	88	83	80	68	53	

Note : Single Phase Motors are available up to 7.5 HP

V6

SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 142 mm & Pump OD. :- 144 mm

OUTLET SIZE :- 75 mm (ON DEMAND CAN PROVIDE 100mm)

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	720	790	840	890	930	1050	1210
VS 65N	4.5	6.0	2		26	19	18	17	16	15	14	10
VS 65N	5.5	7.5	3		39	28	27	26	25	24	21	15
VS 65N	7.5	10.0	4		52	37	36	35	33	32	28	20
VS 65N	9.3	12.5	5		65	47	45	43	42	40	35	25
VS 65N	11.0	15.0	6		78	56	54	52	50	48	42	30
VS 65N	11.0	15.0	7		91	65	63	61	58	56	49	35
VS 65N	13.0	17.5	7		91	65	63	61	58	56	49	35
VS 65N	15.0	20.0	8		104	75	72	69	67	64	56	40

V6**SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 142 mm & Pump OD. :- 144 mm

OUTLET SIZE :- 100mm

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM						
	kW	H.P.			0	475	750	960	1060	1150	1250
VS 67E	4.5	6.0	2		27	22	19	17	15	13	10
VS 67E	5.5	7.5	3		40	33	28	26	22	19	15
VS 67E	7.5	10.0	4		54	44	38	34	30	26	20
VS 67E	9.3	12.5	5		68	55	48	42	38	32	25
VS 67E	11.0	15.0	6		81	66	58	51	45	38	30
VS 67E	13.0	17.5	7		94	77	66	61	52	45	35
VS 67E	15.0	20.0	8		108	88	76	68	60	52	40
VS 67E	18.5	25.0	10		135	110	95	85	75	65	50

OUTLET SIZE :- 100mm

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM						
	kW	H.P.			0	400	550	1150	1280	1400	1500
VS 67	5.5	7.5	2		29	24	22	16	14	11	9
VS 67	5.5	7.5	3		44	36	33	24	21	16	14
VS 67	7.5	10.0	3		44	36	33	24	21	16	14
VS 67	9.3	12.5	4		58	48	44	32	28	22	18
VS 67	11.0	15.0	5		72	60	55	40	35	28	22
VS 67	13.0	17.5	6		87	72	66	48	42	33	27
VS 67	15.0	20.0	7		102	84	77	56	49	38	32
VS 67	18.5	25.0	8		116	96	88	64	56	44	36
VS 67	22.5	30.0	10	145	120	110	80	68	55	45	

Note : Single Phase Motors are available up to 7.5 HP

V7**SUITABLE FOR 175mm BOREWELL OR ABOVE (Min. Bore Dia. 175mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 142 mm & Pump OD. :-170 mm

OUTLET SIZE :- 100mm

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM					
	kW	H.P.			0	660	850	1020	1170	1330
VS 66R	4.5	6.0	2		29	23	20	17	13	10
VS 66R	5.5	7.5	3		44	34	30	26	20	15
VS 66R	7.5	10.0	4		58	46	40	34	26	20
VS 66R	9.3	12.5	5		72	58	50	42	32	25
VS 66R	11.0	15.0	6		87	69	60	51	39	32
VS 66R	13.0	17.5	7		102	80	70	60	46	38
VS 66R	15.0	20.0	8		116	92	80	68	54	42
VS 66R	15.0	20.0	10		145	115	105	85	65	50
VS 66R	18.5	25.0	10		145	115	105	85	65	50
VS 66R	22.5	30.0	12		174	138	120	102	78	62

OUTLET SIZE :- 100mm

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM					
	kW	H.P.			0	700	1040	1230	1350	1500
VS 68	5.5	7.5	2		32	24	19	16	14	10
VS 68	7.5	10.0	3		48	36	29	24	20	15
VS 68	9.3	12.5	4		64	48	38	32	26	20
VS 68	11.0	15.0	4		64	48	38	32	26	20
VS 68	11.0	15.0	5		80	60	47	38	34	25
VS 68	13.0	17.5	6		96	72	57	47	39	30
VS 68	15.0	20.0	7		112	84	67	56	46	35
VS 68	18.5	25.0	8		128	96	77	62	55	39
VS 68	22.5	30.0	10		160	120	100	80	68	50

V7**SUITABLE FOR 175mm BOREWELL OR ABOVE (Min. Bore Dia. 175mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 142 mm & Pump OD. :- 160 mm

OUTLET SIZE :- 100mm

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	1120	1580	1730	1890	2100	2280	2460
VJN:7JT 30 (THH)	5.5	7.5	2		34	24	22	20	18	17	14	9
VJN:7JT 25 (THHH)	5.5	7.5	3		48	36	33	30	27	25	21	14
VJN:7JT 50 (THH)	7.5	10.0	2		34	24	22	20	18	17	14	9
VJN:7JT 30 (THHH)	7.5	10.0	3		48	36	33	30	27	25	21	14
VJN:7JT 30 (THH)	9.3	12.5	3		48	36	33	30	27	25	21	14
VJN:7JT 30 (THH)	11.0	15.0	4		65	49	44	41	36	33	28	19
VJN:7JT 50 (T)	15.0	20.0	4		70	54	48	45	41	37	33	25
VJN:7JT 50 (T)	18.5	25.0	5		88	68	60	56	51	46	41	31

SUITABLE FOR 175mm BOREWELL OR ABOVE (Min. Bore Dia. 175mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 142 mm & Pump OD. :-165 mm

OUTLET SIZE :- 75mm (ON DEMAND CAN PROVIDE 100mm)

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	460	600	950	1200	1300	1450	1550	1660	1750
VJH 7A: 25	7.50	10.00	3		52	42	39	34.5	29	25	21	17.5	15	
VJH 7A: 35	5.50	7.50	2		35	30	29	25	20	18	14	12	11	
VJH 7A: 35	9.30	12.50	3		52	45	44	38	30	27	21	19	16	
VJH 7A: 50	7.50	10.00	2		40	34	32	28	26	23	20	18	16	
VJH 7A: 50	11.00	15.00	3		60	51	48	42	39	34	30	27	24	
VJH 7A: 60	9.30	12.50	2		44	39	36	32	28	27	25	23	20	
VJHH 7A:25	7.50	10.00	3		55	44	41	35	29	27	24	21	18	
VJHH 7A:25	15.00	20.00	6		110	88	82	70	58	54	48	42	36	
VJHH 7A:35	5.50	7.50	2		37	32	31	26	22	20	17	15	12	
VJHH 7A:35	9.30	12.50	3		56	48	46	39	33	30	26	22	18	
VJHH 7A:35	11.00	15.00	4		74	64	62	52	44	40	34	30	24	
VJHH 7A:35	11.00	15.00	5		84	71	67	59	52	47	40	31	24	
VJHH 7A:35	13.00	17.50	5		84	71	67	59	52	47	40	31	24	
VJHH 7A:35	15.00	20.00	5		92	81	78	65	55	50	42	38	30	
VJHH 7A:35	18.50	25.00	6		111	96	93	78	66	60	51	45	36	
VJHH 7A:35	22.50	30.00	8		148	128	124	104	88	80	68	60	48	
VJHH 7A:50	7.50	10.00	2		42	38	35	31	27	25	23	21	19	16
VJHH 7A:50	11.00	15.00	3		63	56	53	48	40	38	34	32	28	24
VJHH 7A:50	15.00	20.00	4		84	74	70	62	54	50	46	42	38	32
VJHH 7A:50	18.50	25.00	5		105	92	88	78	68	62	58	53	48	40
VJHH 7A:50	22.50	30.00	6		126	110	105	93	81	75	69	63	57	48

**BOREWELL
SUBMERSIBLE
PUMP SETS**

8"



200 mm (8") Submersible Pump Sets

200 mm (8") with Water Filled Motor

DESCRIPTION

Varuna brand makes reliable, efficient and durable Submersible pump sets of best quality as per IS 9283:2013. Following are the salient features of Submersible pump sets with Water filled Motor.

SALIENT FEATURES

- Motor and Pump come in a single unit for easy installation.
- Pump sets perform in wider voltage band.
- Pump sets also available in single phase and phase to phase.
- Heavy Duty Carbon thrust bearing with German Technology.
- Superior performance as compared to competitors.
- CI bowl makes design strong and easy to repair.
- Metal Inserted with sand guard to increase life in sandy bore.
- Product available up to 3.0 HP.

Material of Construction

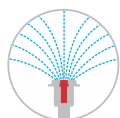
MOTOR DETAILS

Stator	: Insulated varnish using vacuum impregnation method
Rotor	: Copper Rotor/Aluminum pressure die-cast
Motor Body	: Stainless Steel
Thrust Bearing	: Self aligned carbon Vs. Stainless steel thrust bearing that withstands high axial thrust load in water lubrication
Winding	: Multi Layer PVC insulated wire
Cable Sealing	: Nitrile rubber bush locking to protect any foreign
Arrangement	particles entering the motor
Journal Bearings	: Gun Metal Bush with 2% nickel and additional centrifugal molding process to avoid chance of warm out
Pressure Diaphragm	: Sufficient size to contain expansion of water inside the motor and avoid the defeat of cooling water

PUMP DETAILS

Bowl	: Cast Iron
Impeller	: Glass Filled quality abrasion resistant Noryl
Shaft	: Chrome Steel
Wearing Rings	: High Quality Abrasion resistant Stainless Steel
Suction Casing	: Heavy Duty casting material to get proper grip on motor as well as provide path for suction of water. SS Strainer is also provided to protect against foreign particles
Seal	: Carbon Ceramic Seal
Non Return Valve	: FG 260 to reduce the thrust generated due to back pressure of long pipe line at the time of switch off hence leading to increase in the life of the Pump

Applications



SPRINKLER
IRRIGATION



DRIP IRRIGATION
SYSTEM



INDUSTRIAL
APPLICATION



CIVIL & DOMESTIC
WATER SUPPLY



AGRICULTURE
WATER SUPPLY



FIRE FIGHTING
SYSTEM

VJ

SUITABLE FOR 200mm BOREWELL OR ABOVE (Minimum Bore Diameter 200mm)
APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.
 Maximum Motor OD :- 142 mm & Pump OD B :- 178 mm & (C & E) :- 194 mm

OUTLET SIZE :- 100 mm

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM													
	kW	H.P.			0	460	600	950	1200	1300	1450	1550	1660	1750	1800	1950	2000	
VJH 8B: 25	7.5	10.0	3		54	43	40	37	32	29	23	19	17					
VJH 8B: 35	5.5	7.5	2		37	32	30	26	23	30	17	14	12					
VJH 8B: 35	9.3	12.5	3		56	48	45	39	35	33	28	23	18					
VJH 8B: 35	11.0	15.0	4		76	64	60	52	47	43	37	31	24					
VJH 8B: 35	15.0	20.0	5		95	80	75	65	59	54	48	40	30					
VJH 8B: 35	18.5	25.0	6		114	96	90	78	70	65	57	47	36					
VJH 8B: 35	22.5	30.0	8		152	128	120	104	94	86	76	63	48					
VJH 8B: 50	7.5	10.0	2		41	36	33	30	28	24	21	19	17	14				
VJH 8B: 50	11.0	15.0	3		62	54	50	45	42	38	34	30	25	20				
VJH 8B: 50	15.0	20.0	4		82	72	66	60	56	48	42	38	34	28				
VJH 8B: 50	18.5	25.0	5		103	90	83	75	70	60	53	48	43	35				
VJH 8B: 50	22.5	30.0	6		123	108	99	90	84	72	63	57	51	42				
VJH 8B: 60	9.3	12.5	2		47	42	38	34	30	28	26	24	22	19				
VJH 8C: 60	9.3	12.5	2		45	39	37	35	33	31	29	27	24	22	20	18	16	
VJH 8B: 60	13.0	17.5	3		71	63	57	51	45	42	39	36	33	29				
VJH 8B: 60	18.5	25.0	4		94	84	76	68	60	56	52	48	44	38				
VJH 8C: 70	11.0	15.0	2		49	43	41	38	35	33	30	27	24	22	20	18	16	
VJH 8C: 70	15.0	20.0	3		73	64	61	57	52	49	47	45	42	39	36	33	30	
VJH 8E: 80	13.0	17.5	2		51	47	45	41	37	34	32	30	28	26	23	21	19	
VJH 8E: 80	18.5	25.0	3		76	71	67	62	55	51	48	45	42	39	35	32	28	
VJH 8E: 100	15.0	20.0	2		54	48	46	43	41	39	38	37	36	34	32	30	27	
VJH 8E: 100	22.5	30.0	3		81	72	69	65	62	59	57	56	54	51	48	45	41	

VJ

SUITABLE FOR 200mm BOREWELL OR ABOVE (Minimum Bore Diameter 200mm)
APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.
 Maximum Motor OD :- 142 mm & Pump OD B :- 178 mm & (C & E) :- 194 mm

OUTLET SIZE :- 100mm

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM													
	kW	H.P.			0	460	600	950	1200	1300	1450	1550	1660	1750	1800	1950	2000	2200
VJHH 8B: 25	7.5	10.0	3		56	45	42	38	34	31	26	22	19					
VJHH 8B: 35	5.5	7.5	2		39	35	32	28	25	22	18	16	13					
VJHH 8B: 35	9.3	12.5	3		59	53	48	42	37	35	30	25	20					
VJHH 8B: 35	11.0	15.0	5		100	88	80	70	62	57	50	42	33					
VJHH 8B: 50	7.5	10.0	2		44	39	37	33	32	28	25	23	20	17	14			
VJHH 8B: 50	11.0	15.0	3		66	58	56	50	47	42	37	34	30	25	21			
VJHH 8C: 50	7.5	10.0	2		43		36	33	31	28	26	25	23	20	17	15	13	
VJHH 8C: 50	11.0	15.0	3		64		54	50	46	42	40	38	35	30	25	22	20	
VJHH 8C: 60	9.31	2.5	2		47					36	34	32	30	27	25	22	20	
VJHH 8C: 60	13.0	17.5	3		69					54	51	48	45	55	37	37	30	
VJHH 8C: 70	11.0	15.0	2		51	48	46	43	40	38	36	35	33	31	30	27	25	20
VJHH 8C: 70	15.0	20.0	3		77	72	69	65	60	57	55	53	50	47	45	41	38	30

VJ

SUITABLE FOR 200mm BOREWELL OR ABOVE (Minimum Bore Diameter 200mm)
APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.
 Maximum Motor OD :- 142 mm & Pump OD B :- 178 mm & (C & E) :- 194 mm

OUTLET SIZE :- 100 mm

TYPE OF FLOW : MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM															
	kW	H.P.			0	1000	1200	1300	1350	1400	1500	1600	1700	1750	1850	2000	2150	2200	2300	2500
VJHH:8B 25(THH)	7.5	10.0	3		58	50	46	44	43	42	35	33	29	26	23	18				
VJHH:8CT 35(THH)	9.3	12.5	3		63	51	50	48	47	46	45	43	38	34	31	24	20			
VJHH:8CT 50(THH)	7.5	10.0	2		47	42	39	36	34	33	32	30	28	26	25	23	17	14	10	
VJHH:8CT 50(THH)	11.0	15.0	3		71	62	58	54	53	51	48	45	42	40	38	35	25	20	15	
VJHH:8CT 50G(THH)	11.0	15.0	3		73	69	67	65	64	63	62	61	58	56	52	48	43	38	28	20
VJHH:8C 70(THH)	11.0	15.0	2		51	48	46	43	40	38	37	35	33	31	30	27	25	20	10	

V8**SUITABLE FOR 200mm BOREWELL OR ABOVE (Min. Bore Dia. 200mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 180 mm & Pump O.D .:-194 mm

OUTLET SIZE :- 75mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	110	250	430	550	660	710	800
VN 25 B	15.0	20.0	8		176	162	150	134	107	91	75	54
VN 25 B	18.5	25.0	10		220	202	187	168	134	114	94	68
VN 25 B	22.0	30.0	10		220	202	187	168	134	114	94	68
VN 25 B	22.0	30.0	12		264	242	224	202	161	137	113	82
VN 25 B	30.0	40.0	14		308	283	262	235	188	160	132	95
VN 25 B	30.0	40.0	16		352	323	299	269	214	182	150	109
VN 25 B	33.0	45.0	18		396	364	337	302	241	205	169	122

OUTLET SIZE :- 75mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	164	404	483	704	746	782	837
VN 30 B	11.0	15.0	5		111	104	97	93	68	60	50	41
VN 30 B	15.0	20.0	6		134	125	117	111	81	72	60	49
VN 30 B	15.0	20.0	7		156	146	136	130	95	84	70	57
VN 30 B	18.5	25.0	8		178	167	156	148	108	97	81	65
VN 30 B	22.0	30.0	10		223	209	194	185	135	121	101	81
VN 30 B	26.0	35.0	12		267	251	233	222	162	145	121	98
VN 30 B	30.0	40.0	12		267	251	233	222	162	145	121	98
VN 30 B	30.0	40.0	13		289	271	253	241	176	157	131	106
VN 30 B	37.0	50.0	15		334	313	292	278	203	181	151	122
VN 30 B	37.0	50.0	16		356	334	311	296	216	193	161	130
VN 30 B	37.0	50.0	17		378	355	330	315	230	205	171	138
VN 30 B	40.0	55.0	18		401	376	350	333	243	217	181	146
VN 30 B	45.0	60.0	20	445	418	389	370	270	241	201	163	

OUTLET SIZE :- 75mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	kW	H.P.			0	767	825	885	928	968	1000	1052
VN 40 RB	15.0	20.0	5		113	97	77	71	66	61	60	55
VN 40 RB	18.5	25.0	6		135	117	93	86	80	73	72	66
VN 40 RB	22.0	30.0	7		158	136	108	100	93	86	84	78
VN 40 RB	22.0	30.0	8		180	155	123	114	106	98	95	89
VN 40 RB	26.0	35.0	9		203	175	139	129	120	110	107	100
VN 40 RB	30.0	40.0	10		225	194	154	143	133	122	119	111
VN 40 RB	33.5	45.0	11		248	214	170	157	146	134	131	122
VN 40 RB	37.0	50.0	12		270	233	185	171	159	147	143	133
VN 40 RB	37.0	50.0	13		293	253	201	186	173	159	155	144
VN 40 RB	40.0	55.0	14		315	272	216	200	186	171	167	155
VN 40 RB	45.0	60.0	15		338	291	231	214	199	183	179	166

OUTLET SIZE :- 75mm

TYPE OF FLOW : RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	170	290	400	500	600	650	750	850	
VN 50 R	5.5	7.5	2		41	40	39	40	38	36	35	31	26	
VN 50 R	9.3	12.5	3		62	60	60	58	56	53	51	45	39	
VN 50 R	13.0	17.5	4		82	80	78	76	74	70	68	59	50	
VN 50 R	15.0	20.0	5		103	102	100	96	92	88	85	73	63	
VN 50 R	18.5	25.0	6		124	121	119	115	111	106	102	89	76	
VN 50 R	22.5	30.0	7		144	140	138	133	130	122	119	104	88	
VN 50 R	26.0	35.0	8		164	160	156	152	148	140	136	120	100	
VN 50 R	30.0	40.0	10		205	200	196	191	185	175	170	148	127	
VN 50 R	33.0	45.0	11		226	220	215	210	204	193	187	162	138	
VN 50 R	37.5	50.0	12		246	240	235	230	222	210	204	176	150	
VN 50 R	41.0	55.0	13	266	260	255	248	240	228	221	191	162		
VN 50 R	45.0	60.0	14	287	280	275	267	260	245	238	206	176		

V8

SUITABLE FOR 200mm BOREWELL OR ABOVE (Minimum Bore Diameter 200mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 180 mm & Pump O.D. :-194 mm

OUTLET SIZE :- 100mm

TYPE OF FLOW : MIXED

MODEL	PUMP TYPE	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
		kW	H.P.			0	800	1000	1150	1250	1400	1500	1600	1700	1800
VQ : 25	NB	7.5	10.0	3		53	41	36	34	30	22	20	18		
VQ : 35	NB	5.5	7.5	2		38	29	26	24	21	18	17	15	14	
VQ : 35	NB	9.3	12.5	3		57	44	40	36	34	27	26	20	18	
VQ : 35	NB	11.0	15.0	4		76	59	53	48	45	35	34	30	27	
VQ : 35	NB	15.0	20.0	5		95	73	67	60	57	44	43	38	30	
VQ : 35	NB	18.5	25.0	6		114	88	80	72	68	53	51	46	36	
VQ : 35	NB	22.5	30.0	7		133	103	93	84	79	62	60	54	42	
VQ : 35	NB	26.0	35.0	8		152	118	106	96	90	71	68	62	48	
VQ : 35	NB	30.0	40.0	9		171	133	119	108	101	80	77	70	54	
VQ : 35	NB	30.0	40.0	10		190	148	132	120	112	89	85	78	60	
VQ : 35	NB	30.0	40.0	11	209	163	145	132	123	98	94	86	66		
VQ : 35	NB	33.0	45.0	11	209	163	145	132	123	98	94	86	66		
VQ : 35	NB	37.5	50.0	12	228	178	158	144	134	107	102	94	72		
VQ : 35	NB	41.0	55.0	12	228	178	158	144	134	107	102	94	72		
VQ : 35	NB	45.0	60.0	14	266	208	184	168	156	125	119	110	84		
VQ : 50	NB	7.5	10.0	2	39	32	30	28	25	21	19	17	14	13	
VQ : 50	NB	11.0	15.0	3	59	47	44	42	37	31	29	25	21	19	
VQ : 50	NB	15.0	20.0	4	79	64	60	56	50	42	38	34	28	26	
VQ : 50	NB	18.5	25.0	5	99	80	75	70	63	53	48	43	35	33	
VQ : 50	NB	22.5	30.0	6	119	96	90	84	76	64	57	52	42	40	
VQ : 50	NB	26.0	35.0	7	139	112	105	98	89	75	67	61	49	47	
VQ : 50	NB	30.0	40.0	8	159	128	120	112	102	86	76	70	56	54	
VQ : 50	NB	33.0	45.0	9	179	144	135	126	115	97	86	79	63	61	
VQ : 50	NB	37.5	50.0	10	199	160	150	140	128	108	95	88	70	68	
VQ : 50	NB	41.0	55.0	11	219	176	165	154	144	119	105	97	77	75	

OUTLET SIZE :- 100mm

TYPE OF FLOW : MIXED

MODEL	PUMP TYPE	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
		kW	H.P.			0	800	1000	1150	1250	1400	1500	1600	1700	1800
VQ : 50	NB	45.0	60.0	12		239	192	180	168	157	130	114	106	84	82
VQ : 60	NB	9.31	2.5	2		46	38	35	33	30	27	24	21	19	
VQ : 60	NB	13.0	17.5	3		69	57	52	50	45	41	36	32	29	
VQ : 60	NB	18.5	25.0	4		92	76	69	66	60	55	48	43	39	
VQ : 60	NB	22.5	30.0	5		115	95	86	83	75	69	60	54	49	
VQ : 60	NB	26.0	35.0	6		138	114	103	99	90	83	72	65	59	
VQ : 60	NB	33.0	45.0	7		161	133	120	116	105	97	84	76	69	
VQ : 60	NB	37.5	50.0	8		184	152	137	132	120	111	96	87	79	
VQ : 60	NB	41.0	55.0	9		207	171	154	149	135	125	108	98	89	
VQ : 60	NB	45.0	60.0	10		230	190	171	165	150	139	120	109	99	

V8

SUITABLE FOR 200mm/250mm BOREWELL OR ABOVE

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

OUTLET SIZE :- 100mm (ON DEMAND CAN PROVIDE 125mm)

TYPE OF FLOW : MIXED

MODEL	PUMP TYPE	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM														
		kW	H.P.			0	800	1000	1150	1250	1400	1500	1600	1700	1800	1950	2050	2200	2300	2450
VQ : 70	NC	11.0	15.0	2		44			38	32	30	29	28	26	24	20	17	14	12	11
VQ : 70	NC	15.0	20.0	3		66			57	47	45	44	41	38	35	30	25	21	18	16
VQ : 70	NC	22.5	30.0	4		88			76	63	60	58	55	50	47	40	33	27	24	21
VQ : 70	NC	26.0	35.0	5		110			95	79	75	73	69	63	59	50	41	34	30	26
VQ : 80	NE	18.5	25.0	3		71	61	57	55	53	50	48	46	44	41	36	33	30	25	20
VQ : 80	NE	26.0	35.0	4		95	81	76	73	71	67	64	61	59	55	48	44	40	33	27
VQ : 80	NE	33.0	45.0	5		119	101	95	92	89	84	80	76	74	69	60	55	50	42	34
VQ : 80	NE	41.0	55.0	6		143	121	114	110	107	101	96	91	89	83	72	66	60	50	41
VQ : 80	NE	45.0	60.0	7		167	141	133	128	125	118	112	106	104	97	84	77	70	59	48
VQ : 80	NE	49.0	65.0	8		191	161	152	147	143	135	128	121	119	111	96	88	80	67	54
VQ : 80	NE	52.0	70.0	9		215	182	171	165	161	152	144	137	134	125	108	99	90	76	61
VQ : 80	NE	56.0	75.0	10		238	202	190	183	178	168	160	152	148	138	120	110	100	84	68
VQ : 80	NE	60.0	80.0	11		262	222	209	202	196	185	176	167	163	152	132	121	110	92	75
VQ : 80	NE	64.0	85.0	12		286	242	228	220	214	202	192	182	178	166	144	132	120	101	82
VQ : 80	NE	67.0	90.0	13		310	262	247	238	232	219	208	197	193	180	156	143	130	109	88
VQ : 80	NE	75.0	100.0	14		334	282	266	257	250	236	224	212	208	194	168	154	140	118	95
VQ : 100	NE	15.0	20.0	2		51	45	43	42	41	39	38	37	35	33	30	28	25	21	18
VQ : 100	NE	22.5	30.0	3		77	68	65	63	62	59	57	56	53	50	45	42	38	32	27
VQ : 100	NE	30.0	40.0	4		102	90	86	84	82	78	76	74	70	66	60	56	50	42	36
VQ : 100	NE	37.5	50.0	5		128	113	108	105	103	98	95	93	88	83	75	70	63	53	45
VQ : 100	NE	45.0	60.0	6		154	136	130	126	124	118	114	112	106	100	90	84	76	64	54
VQ : 100	NE	52.0	70.0	7		179	158	151	147	144	137	133	130	123	116	105	98	88	74	63
VQ : 100	NE	60.0	80.0	8		205	181	173	168	165	157	152	149	141	133	120	112	101	85	72
VQ : 100	NE	67.0	90.0	9		230	203	194	189	185	176	171	167	158	149	135	126	113	95	81
VQ : 100	NE	75.0	100.0	10		256	226	216	210	206	196	190	186	176	166	150	140	126	106	90
VQ : 100	NE	82.5	110.0	11		282	249	238	231	227	216	209	205	194	183	165	154	139	117	99
VQ : 100	NE	90.0	120.0	12		307	271	259	252	247	235	228	223	211	199	180	168	151	127	108
VQ : 100	NE	97.5	130.0	13		333	294	281	273	268	255	247	242	229	216	195	182	164	138	117
VQ : 100	NE	105.0	140.0	14		358	316	302	294	288	274	266	260	246	232	210	196	176	148	126
VQ : 100	NE	112.5	150.0	15		384	339	324	315	309	294	285	279	264	249	225	210	189	159	135

NOTE : Above 60 H.P motors are available in only V9 & V10

SUITABLE FOR 200mm BOREWELL OR ABOVE (Min. Bore Dia. 200mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.

Maximum Motor OD :- 180 mm & Pump O.D B:-178 mm & C & E :-194 mm

OUTLET SIZE :- 100mm (ON DEMAND CAN PROVIDE 125mm)

TYPE OF FLOW : MIXED

MODEL	PUMP TYPE	MOTOR RATING		DISCHARGE IN LPM															
		KW	H.P.	0	1000	1150	1260	1350	1400	1550	1700	1800	1950	2050	2150	2300	2450	2550	
VQ:25	HB	7.5	10.0	3	57	41	36	33	31	27	21	19	16						
VQ:35	HB	5.5	7.5	2	39	29	26	24	21	20	17	13	13						
VQ:35	HB	9.31	2.5	3	58	43	39	36	32	30	25	20	19						
VQ:35	HB	11.0	15.0	4	77	57	52	48	43	40	33	27	25						
VQ:35	HB	15.0	20.0	5	97	72	65	60	53	50	42	33	32						
VQ:50	HB	7.5	10.0	2	43	32	31	29	27	25	22	17	14						
VQ:50	HB	11.0	15.0	3	65	48	46	43	40	37	32	26	21						
VQ:50	HB	15.0	20.0	4	87	64	62	57	53	49	44	34	28						
VQ:50	HB	18.5	25.0	5	109	80	77	71	66	61	55	43	35						
VQ:60	HB	9.31	2.5	2	49	37	34	33	31	29	27	21	19	15					
VQ:60	HB	13.0	17.5	3	74	56	51	50	47	44	41	32	29	23					
VQ:70	HC	11.0	15.0	2	45		35	33	32	31	30	27	25	22	19	17	14	12	11
VQ:70	HC	15.0	20.0	3	68		52	50	48	47	45	40	37	33	28	25	21	18	16
VQ:70	HC	22.5	30.0	4	91		69	67	64	63	60	53	49	44	37	31	28	24	21
VQ:70	HC	26.0	35.0	5	113		86	83	80	78	75	67	62	55	47	42	35	30	27
VQ:70	HC	30.0	40.0	6	135		105	99	96	93	90	81	75	66	57	51	42	36	33
VQ:70	HC	37.5	50.0	7	158		123	116	112	109	105	95	88	77	67	60	49	42	39
VQ:70	HC	41.0	55.0	8	180		140	132	128	124	120	108	100	88	76	68	56	48	44
VQ:70	HC	49.0	65.0	9	203		158	149	144	140	135	122	113	99	86	77	63	54	50
VQ:70	HC	52.0	70.0	10	225		175	165	160	155	150	135	125	110	95	85	70	60	55
VQ:80	HE	18.5	25.0	3	77			60	58	56	53	50	46	44	40	36	31	26	21
VQ:80	HE	26.0	35.0	4	103			80	77	75	71	67	61	59	53	48	41	35	28
VQ:80	HE	33.0	45.0	5	128			100	97	93	88	83	77	73	67	60	52	46	35
VQ:80	HE	41.0	55.0	6	154			120	116	112	106	100	92	88	80	72	62	53	42
VQ:100	HE	15.0	20.0	2	55			45	43	41	39	37	35	33	30	28	25	21	18
VQ:100	HE	22.5	30.0	3	83			68	65	62	59	56	53	50	45	42	38	32	27
VQ:100	HE	30.0	40.0	4	110			90	86	82	78	74	70	66	60	56	50	42	36
VQ:100	HE	37.5	50.0	5	138			113	108	103	98	93	88	83	75	70	63	53	45
VQ:100	HE	45.0	60.0	6	165			135	129	123	117	111	105	99	90	84	75	63	54
VQ:100	HE	52.0	70.0	7	193			158	151	144	137	130	123	116	105	98	88	74	63

HEAD IN METERS

V8

SUITABLE FOR 200mm BOREWELL OR ABOVE (Min. Bore Dia. 200mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50 Hz. A.C. SUPPLY.
Maximum Motor OD :- 180 mm & Pump O.D. :- 194 mm

OUTLET SIZE :- 125mm (ON DEMAND CAN PROVIDE 150mm)

TYPE OF FLOW : MIXED

MODEL	PUMP TYPE	MOTOR RATING		STAGE	DISCHARGE IN LPM															
		KW	H.P.		0	1250	1600	1900	2000	2100	2450	2650	2800	2900	3000	3150	3200	3300	3350	3400
VQ : 125	NI	18.5	25.0	2	61	46	43	41	40	38	36	33	32	30	29	27	25	24		
VQ : 125	NI	30.0	40.0	3	92	69	65	62	60	57	54	50	48	45	44	41	38	36		
VQ : 125	NI	37.5	50.0	4	122	92	86	82	80	76	72	66	64	60	58	54	50	48		
VQ : 125	NI	45.0	60.0	5	153	115	108	103	100	95	90	83	80	75	73	68	63	60		
VQ : 125	NI	52.0	70.0	6	183	138	129	123	120	114	108	99	96	90	87	81	75	72		
VQ : 125	NI	60.0	80.0	7	214	161	151	144	140	133	126	116	112	105	102	95	88	84		
VQ : 125	NI	67.0	90.0	8	244	184	172	164	160	152	144	132	128	120	116	108	100	96		
VQ : 125	NI	75.0	100.0	9	275	207	194	185	180	171	162	149	144	135	131	122	113	108		
VQ : 150	NI	22.5	30.0	2	64	49	46	43	42	41	39	36	35	33	32	31	29	28	26	24
VQ : 150	NI	30.0	40.0	3	96	74	69	65	63	62	59	54	53	50	48	47	44	42	39	36
VQ : 150	NI	37.5	50.0	4	128	98	92	86	84	82	78	72	70	66	64	62	58	56	52	48
VQ : 150	NI	45.0	60.0	5	160	123	115	108	105	103	98	90	88	83	80	78	73	70	65	60
VQ : 150	NI	52.0	70.0	6	192	147	138	129	126	123	117	108	105	99	96	93	87	84	78	72
VQ : 150	NI	60.0	80.0	7	224	172	161	151	147	144	137	126	123	116	112	109	102	98	91	84
VQ : 150	NI	67.0	90.0	8	256	196	184	172	168	164	156	144	140	132	128	124	116	112	104	96
VQ : 150	NI	75.0	100.0	9	288	221	207	193.5	189	185	176	162	158	149	144	140	131	126	117	108
VQ : 150	NI	82.5	110.0	10	320	245	230	215	210	205	195	180	175	165	160	155	145	140	130	120
VQ : 150	NI	90.0	120.0	11	352	270	253	237	231	226	215	198	193	182	176	171	160	154	143	132

HEAD IN METERS

Note : (A) Upto 60 H.P. 8" available and above 60 H.P. 9" & 10" motor