

The real pumping experience

 Performance Chart

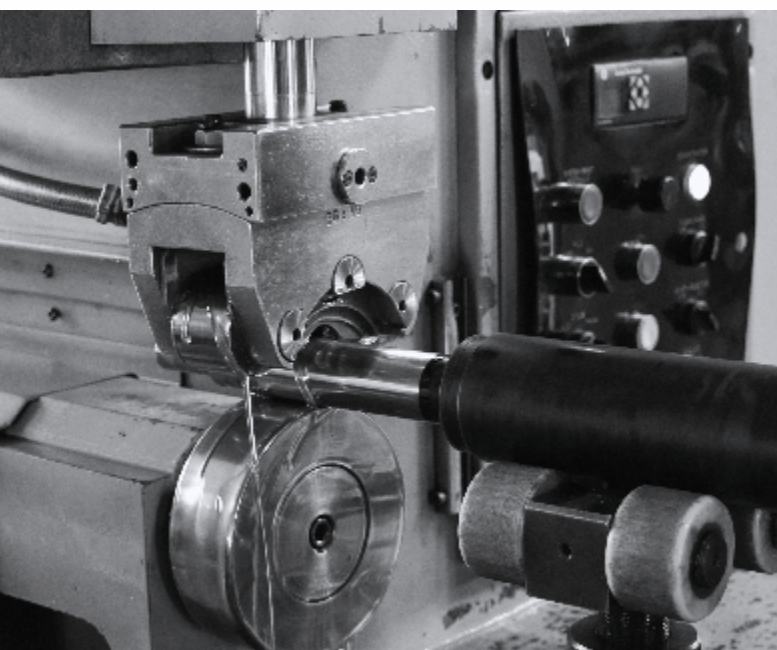
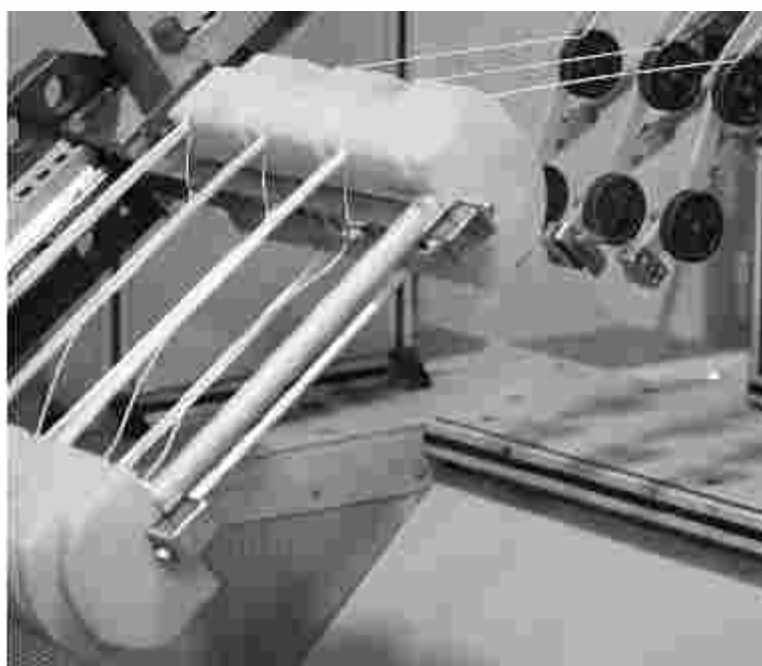


ALGO 
PUMPS | MOTORS | DRIVES

DEEPWELL & OPENWELL
SUBMERSIBLE PUMPSETS

www.algopumps.com

Our Infrastructure







Algo Profile

Algo positions itself as not just a pump manufacturing company but as a dependable, technologically sound and one stop solution provider to meet the diverse needs of customers across the globe. Understanding the need of efficient and cost effective pumping solutions and fluid management systems ALGO is established by the veterans having more than 30 years of diversified experience.

To overcome the current challenges in providing energy efficient and complete pumping solutions and meet the requirement of discerning customers ALGO is determined to offer technologically integrated and inventive pumping systems & Solutions at affordable prices.

With the vast experience gained in both domestic and international markets ALGO products are designed and produced with synergy of best in class technologies and processes with international standards. Most of its products are ISI certified and manufacturing facilities are accredited with ISO 9001



Mission, Vision & Values

To provide technologically integrated and ultramodern fluid management systems and solutions for diversified applications at affordable prices and become one of the pump majors globally.

To ensure that we meet all the standards of safety, efficiency, hygiene and environment protection and contribute significantly in developing systems for energy saving.

Our Values are defined by our dedication to Quality, Principles, & Integrity that lead to customers' satisfaction all time and ultimate success of the company and its stakeholders.



Quality Policy

We are determined to offer reliable & Innovative products and services with high standards, Dedicated to understand & meet customers' requirements on time.

We are committed to focus on introducing industry best technologies & Concepts to save energy, protect environment and to give high priority for customers' satisfaction all time.



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Special Features

Submersible Motors

- EC Grade copper 3 layered insulation (polyester + 2BOPP) winding wire for better thermal protection
- Epoxy coated, corrosion resistance, dynamically balanced rotor
- Special Magnet provision at motor base to protect from free metal particles
- CRNO - M47 stamping with C6 coating for low power consumption
- Kingsbury type carbon - teflon pad thrust bearing
- Spring action pressure compensating diaphragm
- Specially designed forged MS stator end rings
- Low voltage motors can be supplied, on request.

Submersible Pumps

- Built in check valve to prevent back flow & water hammering
- Noryl GFN2 diffuser & impeller for better hydraulic efficiency & long life in VISTA, Lora & Zenta models.
- SS420/431 Pump shaft
- Optimum wear resistance NBR rubber bush
- SS410/304 fasteners
- Stainless steel cable guard & strainer
- Optional outlet size for select models
- Available combination type mounting to suit higher or lower diameter motors.
- Pumps can be supplied with NEMA standard mounting dimension also.

www.algopumps.com



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3" SUBMERSIBLE PUMP SET

Radial Flow

Technical Specifications

SERIES		VISTA
Model		3VS
Power Range	kW	0.37 to 1.5 kW
	HP	0.5 to 2.0 HP
Nominal Outlet size	Inch	1", 1.25" & 1.5"
	mm	25, 32 & 40
Speed	rpm	2880
Discharge range	m ³ /h	1.0 to 5.1
	lpm	16.67 to 85
	lps	0.28 to 1.42
Head range	m	10 to 95
	ft	33 to 310
Max. Outer Diameter	mm	75
Method of starting	1Ph	CSCR
	3Ph	NA
Version	1Ph	180 - 230V : 0.37 to 1.5 kW
	3Ph	NA
Degree of Protection	IP 58	
Duty	S1 continuous	
Direction of Rotation	Anti clockwise	
Maximum starts per hour	20 nos.	
Minimum cooling flow	0.15 m/s	

With
Water Filled
Motor



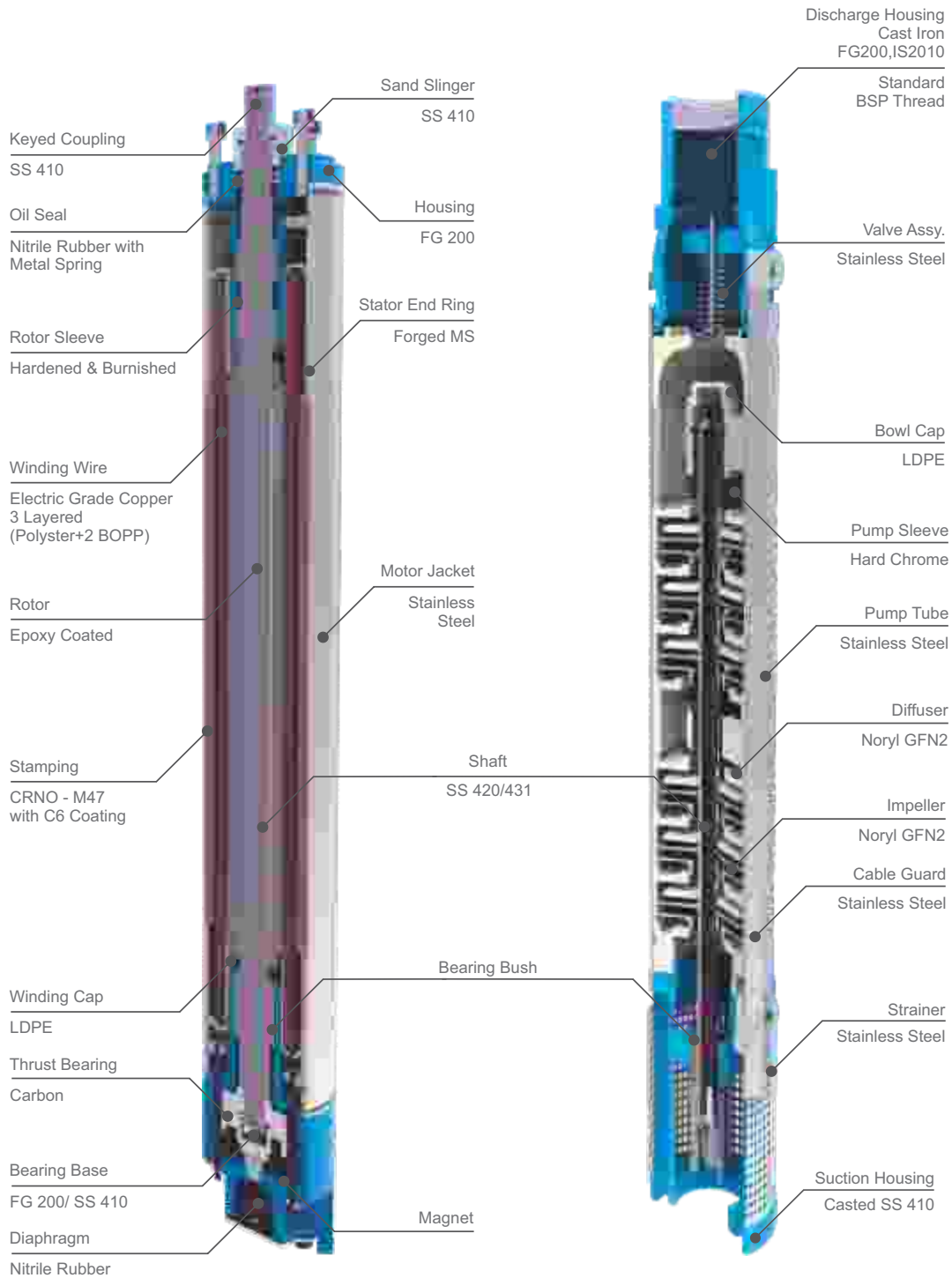
Note: Low voltage motors 160-230V (1Ph) can also be supplied on request.



3" SUBMERSIBLE PUMP SET

Radial Flow

Materials of Construction & Cross Sectional View - 3VS



3" SUBMERSIBLE PUMP SET
Radial Flow
3VS04

Motor Power		STAGE	Outlet size 32mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	1.0	1.4	1.6	1.9	2.1	2.5	3.0
			lps	0	0.28	0.40	0.45	0.52	0.58	0.70	0.83
			lpm	0	17	24	27	31	35	42	50
0.37	0.5	12	Head in Meters	50	44	40	37	32	28	18	5
0.55	0.75	18		76	67	60	56	49	42	27	7
0.75	1.0	25		105	93	84	78	68	59	38	10

3VS05

Motor Power		STAGE	Outlet size 32mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	1.2	2.1	2.4	2.8	3.3	3.8	4.2
			lps	0	0.33	0.58	0.67	0.77	0.92	1.07	1.17
			lpm	0	20	35	40	46	55	64	70
0.37	0.5	10	Head in Meters	41	38	32	30	26	20	13	7
0.55	0.75	12		49	45	38	36	31	23	15	8
0.55	0.75	15		62	56	48	44	39	29	19	11
0.75	1.0	20		82	75	64	59	52	39	25	14
0.93	1.25	25		103	94	80	74	65	49	31	18

3VS07

Motor Power		STAGE	Outlet size 32mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	2.7	3.2	3.9	4.2	4.5	4.8	5.1
			lps	0	0.75	0.90	1.08	1.17	1.25	1.33	1.42
			lpm	0	45	54	65	70	75	80	85
0.37	0.5	8	Head in Meters	32	25	23	18	16	13	9	4
0.55	0.75	12		48	38	34	28	24	19	13	6
0.75	1.0	15		60	47	43	35	30	24	17	7
0.75	1.0	16		64	50	45	37	32	26	18	8
0.93	1.25	20		80	63	57	46	40	32	22	10



Note: Optional outlet size 1" & 1.5" can also be supplied on request.

4" SUBMERSIBLE PUMP SET

Radial Flow

Technical Specifications

SERIES		LORA
Model		4LS
Power Range	kW	0.37 to 1.5 kW
	HP	0.5 to 2.0 HP
Nominal Outlet size	Inch	1.25" & 1.5"
	mm	32 & 40
Speed	rpm	2880
Discharge range	m ³ /h	0.6 to 10.5
	lpm	10 to 175
	lps	0.17 to 2.92
Head range	m	11 to 95
	ft	36 to 310
Max. Outer Diameter	mm	97
Method of starting	1Ph	CSCR
	3Ph	DOL
Version	1Ph	180 - 230V : 0.37 to 1.5 kW
	3Ph	380 - 415V : 0.37 to 1.5 kW
Degree of Protection	IP 58	
Duty	S1 continuous	
Direction of Rotation	Anti clockwise	
Maximum starts per hour	20 nos.	
Minimum cooling flow	0.15 m/s	

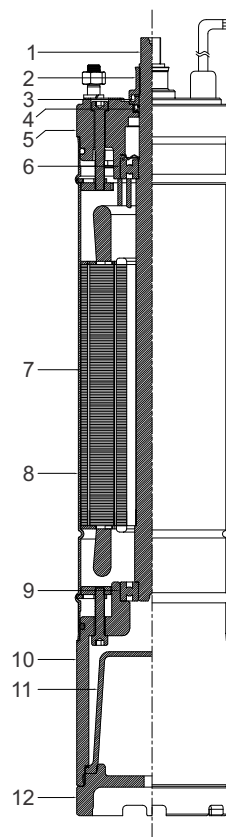
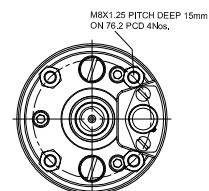
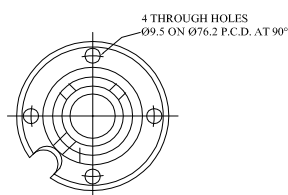
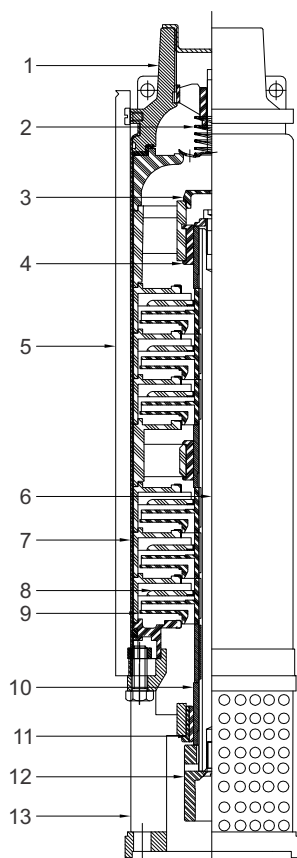


Note: Low voltage motors 160-230V (1Ph) can also be supplied on request.

4" SUBMERSIBLE PUMP SET

Radial Flow
Oil Filled Motor

Materials of Construction & Cross Sectional View - 4LS



Sr. No.	PART NAME	MATERIAL
1	DISCHARGE HOUSING	CAST IRON FG-200,IS-210
2	CHECK VALVE ASSY.	ISS 202; IS:6911
3	BOWL CAP	LDPE
4	PUMP SLEEVE	HARD CHROMED
5	CABLE GUARD	ISS 410; IS:6911
6	PUMP SHAFT	ISS 420/431; IS:6603
7	PUMP SHELL	STAINLESS STEEL
8	DIFFUSER CHAMBER	NORYL GFN2
9	IMPELLER	NORYL GFN2
10	BEARING BUSH	NITRILE RUBBER
11	STRAINER	STAINLESS STEEL
12	COUPLING	STAINLESS STEEL
13	SUCTION HOUSING	CAST IRON FG-200,IS-210

Sr. No.	PART NAME	MATERIAL
1	ROTOR SHAFT	ISS 420;IS:3444
2	SAND SLINGER	NITRILE RUBBER
3	SAND COVER	ISS 410; IS:6911
4	OIL SEAL	NITRILE RUBBER
5	ADAPTOR	CI,FG-200,IS-210
6	UPPER BEARING	STAINLESS STEEL
7	STAMPING	CRNO M-47
8	STATOR PIPE	ISS 202;IS:6911
9	LOWER BEARING	STAINLESS STEEL
10	LOWER HOUSING	CI,FG-200,IS-210
11	DIAPHRAGM	NITRILE RUBBER
12	MOTOR BASE	CI,FG-200,IS-210

4" SUBMERSIBLE PUMP SET

Radial Flow
Oil Filled Motor

4LS01

Motor Power		STAGE	Outlet size 32mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4
			lps	0	0.17	0.25	0.33	0.42	0.50	0.58	0.67
			lpm	0	10	15	20	25	30	35	40
0.37	0.5	8	Head in Meters	45	42	39	36	32	26	16	5
0.55	0.75	10		57	52	49	45	40	32	20	6
0.55	0.75	12		68	62	59	54	48	38	24	7
0.75	1.0	16		90	83	78	72	64	51	32	10
1.1	1.5	18		102	94	88	81	72	58	36	11

4LS02

Motor Power		STAGE	Outlet size 32mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	1.3	1.6	1.9	2.2	2.6	2.8	3.3
			lps	0	0.37	0.47	0.53	0.63	0.73	0.80	0.92
			lpm	0	22	28	32	38	44	48	55
0.37	0.5	6	Head in Meters	34	32	30	28	24	18	13	2
0.55	0.75	7		39	37	35	33	28	21	15	3
0.55	0.75	8		45	42	40	38	32	24	17	4
0.75	1.0	12		67	64	60	56	48	36	26	5
1.1	1.5	16		90	85	80	75	64	48	34	6
1.5	2.0	18		101	95	90	85	72	54	38	7

4LS04

Motor Power		STAGE	Outlet size 32mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	1.8	2.7	3.3	3.8	4.9	6.0	6.6
			lps	0	0.50	0.80	0.92	1.07	1.37	1.67	1.83
			lpm	0	30	45	55	64	82	100	110
0.55	0.75	6	Head in Meters	36	32	29	26	24	17	10	5
0.55	0.75	7		42	37	34	31	28	20	11	6
0.55	0.75	8		48	42	38	35	32	23	13	7
0.75	1.0	10		60	53	48	44	40	29	16	8
1.1	1.5	12		72	64	58	53	48	34	19	10
1.5	2.0	15		90	80	72	66	60	43	24	12



4" SUBMERSIBLE PUMP SET

**Radial Flow
Oil Filled Motor**

4LS05

Motor Power		STAGE	Outlet size 40mm (1.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	3.0	3.7	4.8	6.3	7.8	9.0	9.9
			lps	0	0.83	1.03	1.33	1.75	2.17	2.50	2.75
			lpm	0	50	62	80	105	130	150	165
0.75	1.0	6	Head in Meters	39	34	32	29	24	17	11	5
1.1	1.5	8		52	45	42	38	32	23	14	6
1.1	1.5	10		65	56	53	48	40	29	18	8
1.5	2.0	12		78	67	64	58	48	35	22	10
1.5	2.0	14		91	78	74	67	56	41	25	11

4LS07

Motor Power		STAGE	Outlet size 40mm (1.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	3	5.1	6.6	7.8	9.3	10.5	11.1
			lps	0	0.83	1.42	1.83	2.17	2.58	2.92	3.08
			lpm	0	50	85	110	130	155	175	185
1.1	1.5	6	Head in Meters	42	37	33	29	24	18	11	5
1.5	2.0	8		56	50	44	38	32	24	14	7
1.5	2.0	10		70	62	55	48	40	30	18	9



4" SUBMERSIBLE PUMP SET

Radial Flow

Technical Specifications

SERIES		LORA-W
Model		4LS-W
Power Range	kW	0.37 to 1.5 kW
	HP	0.5 to 2.0 HP
Nominal Outlet size	Inch	1.25", 1.5" & 2"
	mm	32, 40 & 50
Speed	rpm	2880
Discharge range	m ³ /h	0.6 to 10.5
	lpm	10 to 175
	lps	0.17 to 2.92
Head range	m	11 to 101
	ft	36 to 331
Max. Outer Diameter	mm	97
Method of starting	1Ph	CSCR
	3Ph	DOL
Version	1Ph	180 - 230V : 0.37 to 1.5 kW
	3Ph	380 - 415V : 0.75 to 1.5 kW
Degree of Protection	IP 58	
Duty	S1 continuous	
Direction of Rotation	Anti clockwise	
Maximum starts per hour	20 nos.	
Minimum cooling flow	0.15 m/s	

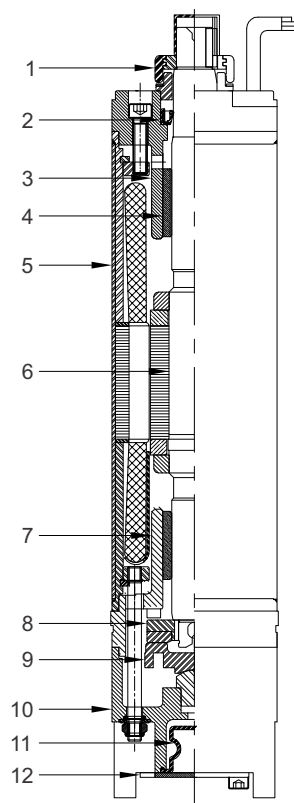
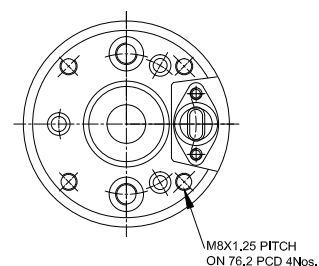
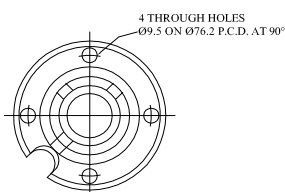
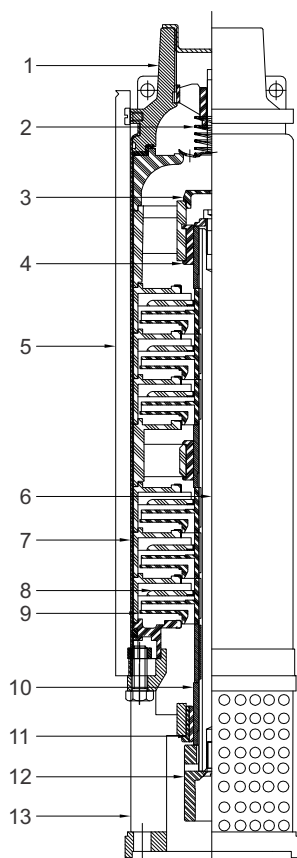


Note: Low voltage motors 160-230V (1Ph) & 350-420V (3Ph) can also be supplied on request.

4" SUBMERSIBLE PUMP SET

Radial Flow
Water Filled Motor

Materials of Construction & Cross Sectional View - 4LS-W



Sr. No.	PART NAME	MATERIAL
1	DISCHARGE HOUSING	CAST IRON FG-200, IS-210
2	CHECK VALVE ASSY.	ISS 202; IS:6911
3	BOWL CAP	LDPE
4	PUMP SLEEVE	HARD CHROMED
5	CABLE GUARD	ISS 410; IS:6911
6	PUMP SHAFT	ISS 420/431; IS:6603
7	PUMP SHELL	STAINLESS STEEL
8	DIFFUSER CHAMBER	NORYL GFN2
9	IMPELLER	NORYL GFN2
10	BEARING BUSH	NITRILE RUBBER
11	STRAINER	STAINLESS STEEL
12	COUPLING	STAINLESS STEEL
13	SUCTION HOUSING	CAST IRON FG-200, IS-210

Sr. No.	PART NAME	MATERIAL
1	SAND SLINGER	NITRILE RUBBER +SS
2	OIL SEAL	NITRILE RUBBER +SS
3	ADAPTOR	CI, FG:200, IS-210
4	BEARING BUSH	LTB-4; IS:318
5	STATOR PIPE	ISS 202; IS:6911
6	ROTOR SHAFT	ISS 420; IS:6603
7	LOWER HOUSING	CI, FG:200, IS-210
8	THRUST BEARING PLATE	CARBON+MS
9	THRUST BEARING	ISS 410; IS:3444
10	MOTOR BASE	CI, FG:200, IS-210
11	DIAPHRAGM	NITRILE RUBBER
12	MOTOR BASE PLATE	ISS 410; IS:6911

4" SUBMERSIBLE PUMP SET

Radial Flow
Water Filled Motor

4LWS01

Motor Power		STAGE	Outlet size 32mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4
			lps	0	0.17	0.25	0.33	0.42	0.50	0.58	0.67
			lpm	0	10	15	20	25	30	35	40
0.37	0.5	8	Head in Meters	45	42	39	36	32	26	16	5
0.55	0.75	10		57	52	49	45	40	32	20	6
0.55	0.75	12		68	62	59	54	48	38	24	7
0.75	1.0	16		90	83	78	72	64	51	32	10
1.1	1.5	18		102	94	88	81	72	58	36	11

4LWS02

Motor Power		STAGE	Outlet size 32mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	1.3	1.6	1.9	2.2	2.6	2.8	3.3
			lps	0	0.37	0.47	0.53	0.63	0.73	0.80	0.92
			lpm	0	22	28	32	38	44	48	55
0.37	0.5	6	Head in Meters	34	32	30	28	24	18	13	2
0.55	0.75	7		39	37	35	33	28	21	15	3
0.55	0.75	8		45	42	40	38	32	24	17	4
0.75	1.0	12		67	64	60	56	48	36	26	5
1.1	1.5	16		90	85	80	75	64	48	34	6
1.5	2.0	18		101	95	90	85	72	54	38	7

4LWS04

Motor Power		STAGE	Outlet size 32mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	1.8	2.7	3.3	3.8	4.9	6	6.6
			lps	0	0.50	0.8	0.92	1.07	1.37	1.67	1.83
			lpm	0	30	45	55	64	82	100	110
0.5	0.75	6	Head in Meters	36	32	29	26	24	17	10	5
0.5	0.75	7		42	37	34	31	28	20	11	6
0.5	0.75	8		48	42	38	35	32	23	13	7
*0.75	1.0	10		60	53	48	44	40	29	16	8
1.1	1.5	12		72	64	58	53	48	34	19	10
1.1	1.5	15		90	80	72	66	60	43	24	12
1.5	2.0	15		90	80	72	66	60	43	24	12
1.5	2.0	19		114	101	91	84	76	54	30	15

Note: Optional outlet size 1.5" can also be supplied on request.



4" SUBMERSIBLE PUMP SET

Radial Flow
Water Filled Motor

4LWS05

Motor Power		STAGE	Outlet size 40mm (1.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	3	3.7	4.8	6.3	7.8	9	9.9
			lps	0	0.83	1.03	1.33	1.75	2.17	2.50	2.75
			lpm	0	50	62	80	105	130	150	165
0.55	0.75	6	Head in Meters	39	34	32	29	24	17	11	5
0.75	1.0	6		39	34	32	29	24	17	11	5
0.75	1.0	8		52	45	42	38	32	23	14	6
1.1	1.5	10		65	56	53	48	40	29	18	8
1.1	1.5	12		78	67	64	58	48	35	22	10
1.5	2.0	12		78	67	64	58	48	35	22	10
1.5	2.0	14		91	78	74	67	56	41	25	11
1.5	2.0	15		98	84	80	72	60	44	27	12

4LWS07

Motor Power		STAGE	Outlet size 40mm (1.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	3	5.1	6.6	7.8	9.3	10.5	11.1
			lps	0	0.83	1.42	1.83	2.17	2.58	2.92	3.08
			lpm	0	50	85	110	130	155	175	185
1.1	1.5	6	Head in Meters	42	37	33	29	24	18	11	5
1.5	2	8		56	50	44	38	32	24	14	7
* 1.5	2	10		70	62	55	48	40	30	18	9
1.5	2	12		84	74	66	58	48	36	22	11
1.5	2	15		105	93	83	72	60	45	27	14



Note: Optional outlet size 2" can also be supplied on request.



4" SUBMERSIBLE PUMP SET

Radial & Mixed Flow

Technical Specifications

SERIES		4" ZENTO	4" MAXI BLUE
Model		4ZS	4MS
Power Range	kW	0.37 to 5.5 kW	1.1 to 5.5 kW
	HP	0.5 to 7.5 HP	1.5 to 7.5 HP
Nominal Outlet size	Inch	1.25", 1.5", 2" & 2.5"	2" & 2.5"
	mm	32, 40, 50 & 65	50 & 65
Speed	rpm	2880	2880
Discharge range	m ³ /h	0.2 to 24	6 to 24
	lpm	3.5 to 428	100 to 400
	lps	0.06 to 7.14	1.67 to 6.67
Head range	m	8 to 342	9 to 97
	ft	26 to 1120	29 to 318
Max. Outer Diameter	mm	97	102
Method of starting	1Ph	CSCR	CSCR
	3Ph	DOL	DOL
Version	1Ph	180 - 230V : 0.37 to 3.7 kW	180 - 230V : 1.1 to 3.7 kW
	3Ph	380 - 415V : 0.75 to 5.5 kW	380 - 415V : 1.1 to 5.5 kW
Degree of Protection		IP 58	IP 58
Duty		S1 continuous	S1 continuous
Direction of Rotation		Anti clockwise	Anti clockwise
Maximum starts per hour		20 nos.	20 nos.
Minimum cooling flow		0.15 m/s	0.15 m/s



Note: Low voltage motors 160-230V (1Ph) & 350-420V (3Ph) can also be supplied on request.

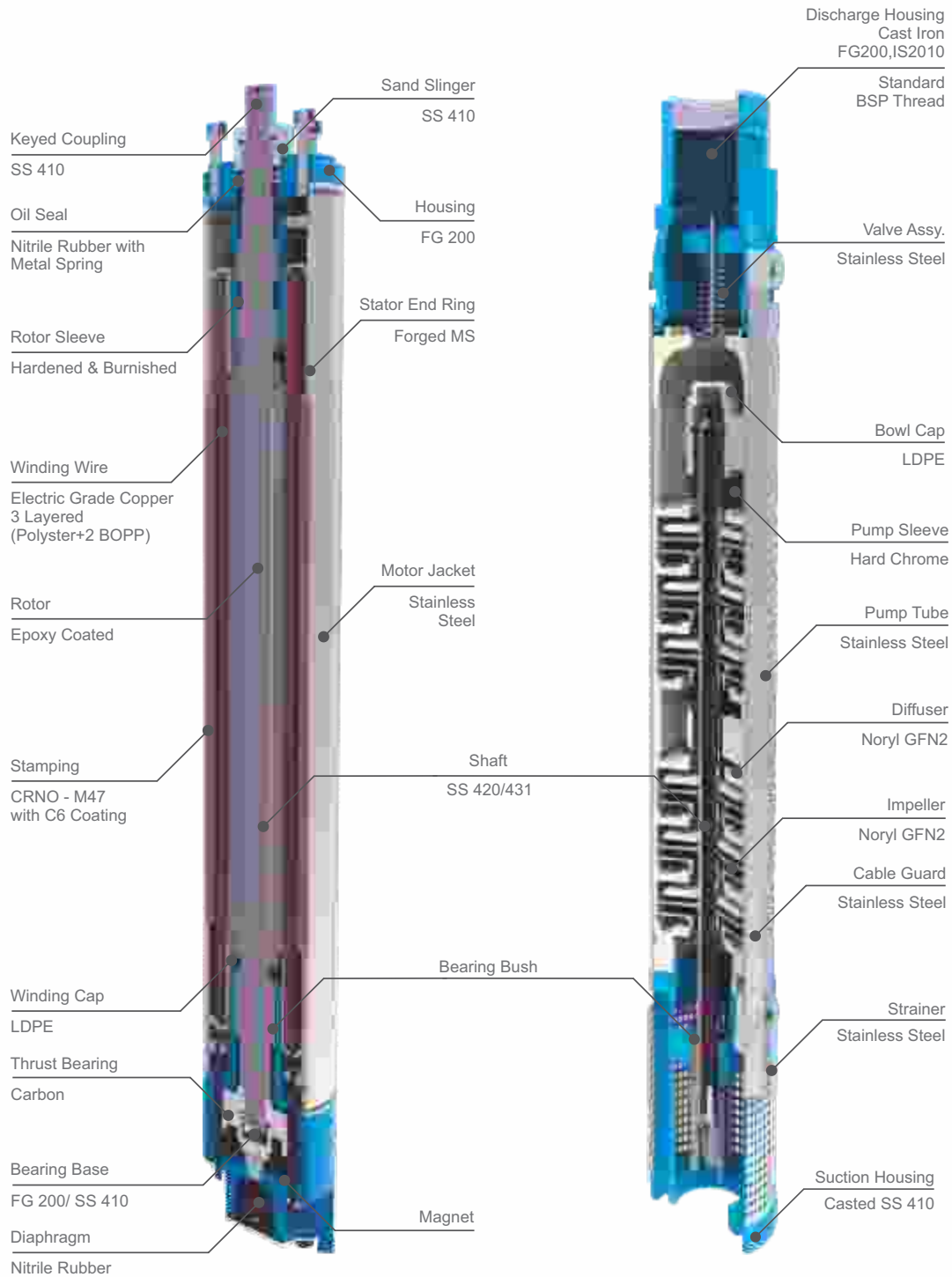
All 4" Zento Series (4ZS) models can also be supplied with 5" motor, on request.



4" SUBMERSIBLE PUMP SET

Radial Flow

Materials of Construction & Cross Sectional View - 4ZS

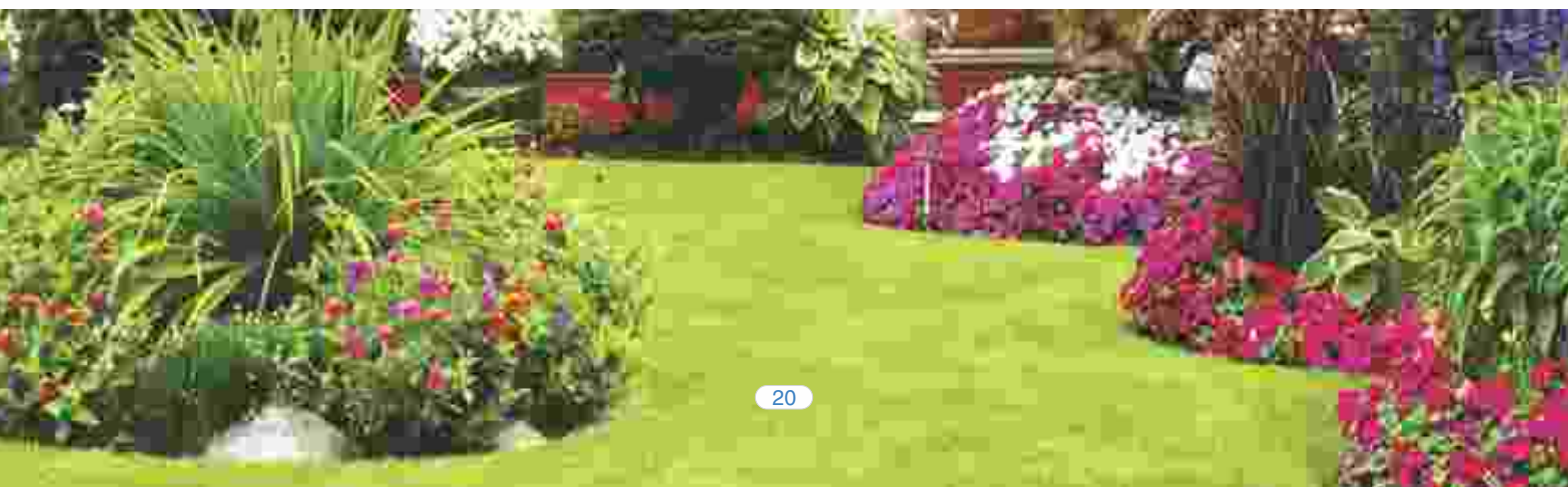


4" SUBMERSIBLE PUMP SET
Radial Flow
4ZS00

Motor Power		STAGE	Outlet size 32 mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	0.2	0.4	0.7	1.2	1.3	1.9	2.4
			lps	0	0.08	0.12	0.2	0.33	0.38	0.53	0.67
			lpm	0	6	8	14	22	25	33	40
0.37	0.5	8	Head in Meters	56	52	50	46	40	38	28	18
0.55	0.75	11		77	72	69	64	55	52	39	24
0.55	0.75	12		84	78	76	70	60	56	42	26
0.75	1.0	16		112	104	101	93	80	75	56	35
0.75	1.0	17		119	111	107	99	85	80	60	37
0.75	1.0	18		126	117	113	104	90	85	63	40
1.1	1.5	22		154	143	139	128	110	103	77	48
1.1	1.5	23		161	150	145	133	115	108	81	51
1.1	1.5	24		168	156	151	139	120	113	84	53
1.1	1.5	25		175	163	158	145	125	118	88	55
1.5	2.0	30		210	195	189	174	150	141	105	66
1.5	2.0	31		217	202	195	180	155	146	109	68
1.5	2.0	32		224	208	202	186	160	150	112	70
1.5	2.0	33		231	215	208	191	165	155	116	73
2.2	3.0	44		308	286	277	255	220	207	154	97
2.2	3.0	45		315	293	284	261	225	212	158	99
2.2	3.0	46		322	299	290	267	230	216	161	101
2.2	3.0	47		329	306	296	273	235	221	165	103
2.2	3.0	48		336	312	302	278	240	226	168	106
2.2	3.0	49		343	319	309	284	245	230	172	108
2.2	3.0	50		350	325	315	290	250	235	175	110



Note: Optional outlet size 1.5" can also be supplied on request.

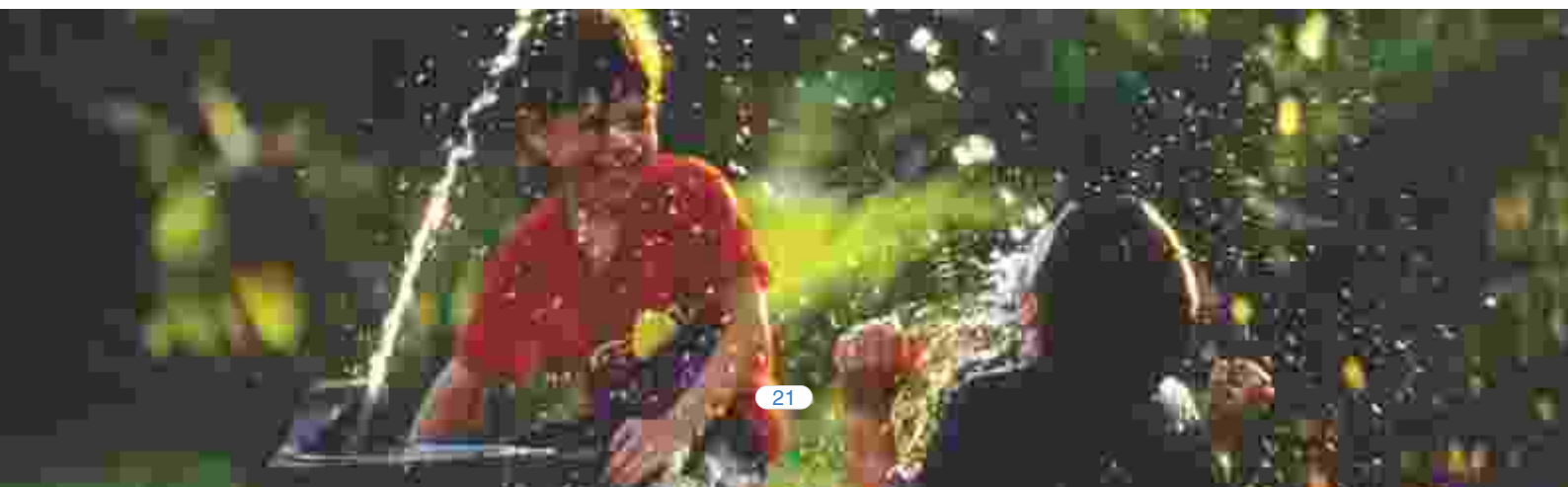


4" SUBMERSIBLE PUMP SET
Radial Flow
4ZS01

Motor Power		STAGE	Outlet size 32 mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	0.9	1.2	1.5	1.8	2.1	2.5	2.8
			lps	0	0.25	0.33	0.42	0.50	0.60	0.70	0.80
			lpm	0	15	20	25	30	36	42	48
0.37	0.5	7	Head in Meters	49	46	43	40	35	29	20	10
0.55	0.75	10		70	65	62	57	50	41	29	14
0.75	1.0	12		84	78	74	68	60	49	35	17
0.75	1.0	13		91	85	81	74	65	53	38	18
0.75	1.0	14		98	91	87	80	70	57	41	20
0.75	1.0	15		105	98	93	86	75	62	44	21
0.75	1.0	16		112	104	99	91	80	66	46	22
1.1	1.5	18		126	117	112	103	90	74	52	25
1.1	1.5	19		133	124	118	108	95	78	55	27
1.1	1.5	20		140	130	124	114	100	82	58	28
1.5	2.0	23		161	150	143	131	115	94	67	32
1.5	2.0	24		168	156	149	137	120	98	70	34
1.5	2.0	25		175	163	155	143	125	103	73	35
2.2	3.0	36		252	234	223	205	180	148	104	50
2.2	3.0	37		259	241	229	211	185	152	107	52
2.2	3.0	38		266	247	236	217	190	156	110	53
2.2	3.0	39		273	254	242	222	195	160	113	55
* 2.2	3.0	40	280	260	248	228	200	164	116	56	



Note: Optional outlet size 1.5" can also be supplied on request.



4" SUBMERSIBLE PUMP SET
Radial Flow
4ZS02

Motor Power		STAGE	Outlet size 32 mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	1.2	1.5	1.9	2.4	3	3.3	3.6
			lps	0	0.33	0.42	0.53	0.67	0.83	0.92	1.00
			lpm	0	20	25	32	40	50	55	60
0.37	0.5	6	Head in Meters	45	41	39	35	30	22	16	10
0.55	0.75	8		60	54	52	47	40	29	22	13
0.55	0.75	9		68	61	59	53	45	32	24	14
0.75	1.0	10		75	68	65	59	50	36	27	16
0.75	1.0	11		83	75	72	65	55	40	30	18
0.75	1.0	12		90	82	78	71	60	43	32	19
1.1	1.5	14		105	95	91	83	70	50	38	22
1.1	1.5	15		113	102	98	89	75	54	41	24
1.1	1.5	16		120	109	104	94	80	58	43	26
1.1	1.5	17		128	116	111	100	85	61	46	27
* 1.5	2.0	18		135	122	117	106	90	65	49	29
* 1.5	2.0	19		143	129	124	112	95	68	51	30
* 1.5	2.0	20		150	136	130	118	100	72	54	32
* 1.5	2.0	21		158	143	137	124	105	76	57	34
* 1.5	2.0	22		165	150	143	130	110	79	59	35
* 2.2	3.0	25		188	170	163	148	125	90	68	40
* 2.2	3.0	26		195	177	169	153	130	94	70	42
* 2.2	3.0	27		203	184	176	159	135	97	73	43
* 2.2	3.0	28		210	190	182	165	140	101	76	45
* 2.2	3.0	29		218	197	189	171	145	104	78	46
* 2.2	3.0	30		225	204	195	177	150	108	81	48
* 2.2	3.0	31		233	211	202	183	155	112	84	50
* 2.2	3.0	32		240	218	208	189	160	115	86	51
* 2.2	3.0	33		248	224	215	195	165	119	89	53
* 2.2	3.0	34		255	231	221	201	170	122	92	54
* 2.2	3.0	35		263	238	228	207	175	126	95	56
3.0	4.0	45		338	306	293	266	225	162	122	72
3.7	5.0	50		375	340	325	295	250	180	135	80



Note: Optional outlet size 1.5" can also be supplied on request.

4" SUBMERSIBLE PUMP SET
Radial Flow
4ZS03

Motor Power		STAGE	Outlet size 32 mm (1.25")						50Hz		
			Discharge								
kW	HP		m³/h	0	1.5	2.1	3.0	3.9	4.3	4.8	5.4
			lps	0	0.42	0.60	0.83	1.08	1.20	1.33	1.50
			lpm	0	25	35	50	65	72	80	90
0.55	0.75	5	Head in Meters	40	38	36	32	25	21	16	9
0.55	0.75	6		48	46	44	38	30	25	19	11
0.75	1.0	7		56	53	51	44	35	29	22	13
0.75	1.0	8		64	61	58	51	40	34	26	14
0.75	1.0	9		72	68	66	57	45	38	29	16
1.1	1.5	10		80	76	73	64	50	42	32	18
1.1	1.5	11		88	84	80	70	55	46	35	20
1.1	1.5	12		96	91	87	76	60	50	38	22
1.5	2.0	13		104	99	95	83	65	55	42	23
1.5	2.0	14		112	106	102	89	70	59	45	25
1.5	2.0	15		120	114	109	95	75	63	48	27
1.5	2.0	16		128	122	116	102	80	67	51	29
2.2	3.0	19		152	144	138	121	95	80	61	34
* 2.2	3.0	20		160	152	146	127	100	84	64	36
2.2	3.0	21		168	160	153	133	105	88	67	38
2.2	3.0	22		176	167	160	140	110	92	70	40
2.2	3.0	23		184	175	167	146	115	97	74	41
* 2.2	3.0	24		192	182	175	152	120	101	77	43
2.2	3.0	26		208	198	189	165	130	109	83	47
3.0	4.0	28		224	213	204	178	140	118	90	50
3.0	4.0	30		240	228	218	191	150	126	96	54
* 3.7	5.0	31		248	236	226	197	155	130	99	56
* 3.7	5.0	32		256	243	233	203	160	134	102	58
* 3.7	5.0	33		264	251	240	210	165	139	106	59
3.7	5.0	34		272	258	248	216	170	143	109	61
* 3.7	5.0	35		280	266	255	222	175	147	112	63
* 3.7	5.0	36		288	274	262	229	180	151	115	65
* 3.7	5.0	38		304	289	277	241	190	160	122	68
3.7	5.0	40		320	304	291	254	200	168	128	72
4.5	6.0	45		360	342	328	286	225	189	144	81

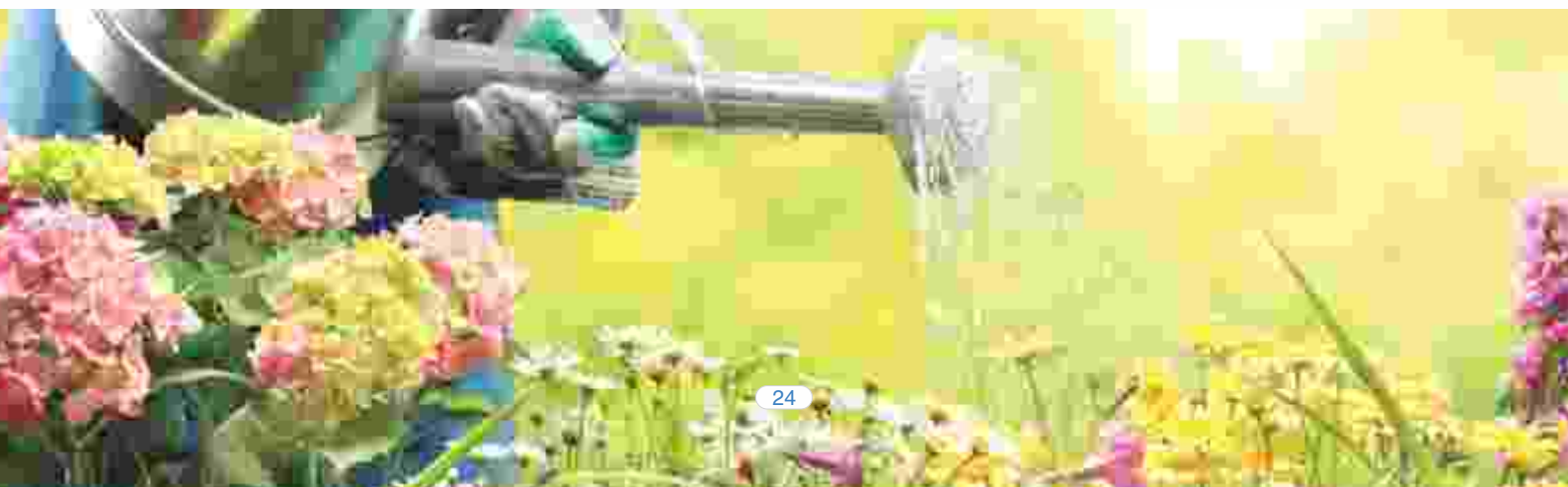
Note: Optional outlet size 1.5" can also be supplied on request.



4" SUBMERSIBLE PUMP SET
Radial Flow
4ZS05

Motor Power		STAGE	Outlet size 40mm (1.5")							50Hz	
			Discharge								
kW	HP		m³/h	0	2.4	3.3	4.2	5.4	5.8	6.6	7.5
			lps	0	0.67	0.92	1.17	1.50	1.63	1.83	2.08
			lpm	0	40	55	70	90	98	110	125
0.75	1.0	5	Head in Meters	40	37	34	31	25	23	18	12
0.75	1.0	6		48	44	41	37	30	27	22	14
1.1	1.5	7		56	51	48	43	35	32	25	16
1.1	1.5	8		64	58	54	49	40	36	29	18
1.1	1.5	9		72	66	61	55	45	41	32	21
1.5	2.0	10		80	73	68	61	50	45	36	23
1.5	2.0	11		88	80	75	67	55	50	40	25
1.5	2.0	12		96	88	82	73	60	54	43	28
2.2	3.0	15		120	110	102	92	75	68	54	35
2.2	3.0	16		128	117	109	98	80	72	58	37
2.2	3.0	17		136	124	116	104	85	77	61	39
2.2	3.0	18		144	131	122	110	90	81	65	41
3.0	4.0	20		160	146	136	122	100	90	72	46
3.0	4.0	21		168	153	143	128	105	95	76	48
* 3.7	5.0	25		200	183	170	153	125	113	90	58
* 3.7	5.0	27		216	197	184	165	135	122	97	62
4.5	6.0	30		240	219	204	183	150	135	108	69
4.5	6.0	32	256	234	218	195	160	144	115	74	
5.5	7.5	40	320	292	272	244	200	180	144	92	

Note: Optional outlet size 2" can also be supplied on request.



4" SUBMERSIBLE PUMP SET
Radial Flow
4ZS07

Motor Power		STAGE	Outlet size 40mm (1.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	3.9	4.8	5.7	7.2	8.1	8.5	9
			lps	0	1.08	1.33	1.58	2.00	2.25	2.37	2.50
			lpm	0	65	80	95	120	135	142	150
0.75	1.0	4	Head in Meters	32	28	26	24	20	16	14	11
1.1	1.5	6		48	42	39	36	30	25	21	17
* 1.5	2.0	8		64	56	52	48	40	33	28	22
1.5	2.0	9		72	63	59	54	45	37	32	25
1.5	2.0	10		80	70	66	60	50	41	35	28
* 2.2	3.0	12		96	84	79	72	60	49	42	34
2.2	3.0	13		104	91	85	78	65	53	46	36
2.2	3.0	14		112	98	92	84	70	57	49	39
2.2	3.0	15		120	105	98	90	75	62	53	42
3.0	4.0	16		128	112	105	96	80	66	56	45
* 3.7	5.0	20		160	140	131	120	100	82	70	56
* 3.7	5.0	21		168	147	138	126	105	86	74	59
3.7	5.0	22		176	154	144	132	110	90	77	62
3.7	5.0	23		184	161	151	138	115	94	81	64
3.7	5.0	24		192	168	157	144	120	98	84	67
3.7	5.0	25		200	175	164	150	125	103	88	70
4.5	6.0	25		200	175	164	150	125	103	88	70
5.5	7.5	30		240	210	197	180	150	123	105	84



Note: Optional outlet size 2" can also be supplied on request.

4" SUBMERSIBLE PUMP SET
Mixed Flow
4ZS10

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	6.3	7.2	7.8	9.6	10.5	11.4	12.3
			lps	0	1.80	2.00	2.20	2.70	2.90	3.20	3.40
			lpm	0	105	120	130	160	175	190	205
1.1	1.5	5	Head in Meters	32	25	24	23	20	18	15	12
1.1	1.5	6		38	29	28	27	24	22	18	14
1.5	2.0	7		45	34	33	32	28	25	21	16
1.5	2.0	8		51	39	38	36	32	29	24	19
2.2	3.0	10		64	49	47	45	40	36	30	23
2.2	3.0	11		70	54	52	50	44	40	33	26
2.2	3.0	12		77	59	56	54	48	43	36	28
3.0	4.0	14		90	69	66	63	56	50	42	33
3.7	5.0	17		109	83	80	77	68	61	51	40
3.7	5.0	18		115	88	85	81	72	65	54	42
3.7	5.0	19		122	93	89	86	76	68	57	44
3.7	5.0	20		128	98	94	90	80	72	60	47
4.5	6.0	20		128	98	94	90	80	72	60	47
4.5	6.0	21		134	103	99	95	84	76	63	49
5.5	7.5	25		160	123	118	113	100	90	75	58

4ZS14

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	7.8	10.2	12.6	14.4	16.8	19.2	21.6
			lps	0	2.20	2.80	3.50	4.00	4.70	5.30	6.00
			lpm	0	130	170	210	240	280	320	360
1.1	1.5	5	Head in Meters	25	21	18	17	15	14	11	8
1.5	2.0	7		34	29	26	23	21	19	15	11
2.2	3.0	10		49	41	37	33	30	27	21	16
3.0	4.0	14		69	58	51	47	42	38	30	22
3.7	5.0	17		83	70	62	57	51	46	36	27



4" SUBMERSIBLE PUMP SET
Mixed Flow
4ZS18

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	11.4	13.8	15.0	16.8	19.2	21.6	22.8
			lps	0	3.20	3.80	4.20	4.70	5.30	6.00	6.30
			lpm	0	190	230	250	280	320	360	380
1.1	1.5	4	Head in Meters	22	15	14	13	12	10	8	7
1.5	2.0	5		27	19	17	16	15	13	10	9
2.2	3.0	7		38	27	24	22	21	18	14	12
2.2	3.0	8		43	30	27	26	24	20	16	14
2.2	3.0	9		49	34	31	29	27	23	18	15
3.0	4.0	10		54	38	34	32	30	25	20	17
3.7	5.0	12		65	46	41	38	36	30	24	20
3.7	5.0	13		70	49	44	42	39	33	26	22
3.7	5.0	14		76	53	48	45	42	35	28	24
4.5	6.0	15		81	57	51	48	45	38	30	26
5.5	7.5	19		103	72	65	61	57	48	38	32
5.5	7.5	20		108	76	68	64	60	50	40	34

4ZS20

Motor Power		STAGE	Outlet size 65mm (2.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	13.6	16.4	17.9	20.0	22.9	25.7	27.1
			lps	0	3.80	4.60	5.00	5.60	6.40	7.20	7.50
			lpm	0	226	274	298	333	381	429	452
1.1	1.5	4	Head in Meters	22	15	14	13	12	10	8	7
1.5	2.0	5		27	19	17	16	15	13	10	9
2.2	3.0	6		32	23	20	19	18	15	12	10
2.2	3.0	7		38	27	24	22	21	18	14	12
3.0	4.0	8		43	30	27	26	24	20	16	14
3.0	4.0	9		49	34	31	29	27	23	18	15
3.0	4.0	10		54	38	34	32	30	25	20	17
3.7	5.0	11		59	42	37	35	33	28	22	19
3.7	5.0	12		65	46	41	38	36	30	24	20
4.5	6.0	13		70	49	44	42	39	33	26	22
4.5	6.0	14		76	53	48	45	42	35	28	24
5.5	7.5	15		81	57	51	48	45	38	30	26
5.5	7.5	16		86	61	54	51	48	40	32	27
5.5	7.5	17		92	65	58	54	51	43	34	29

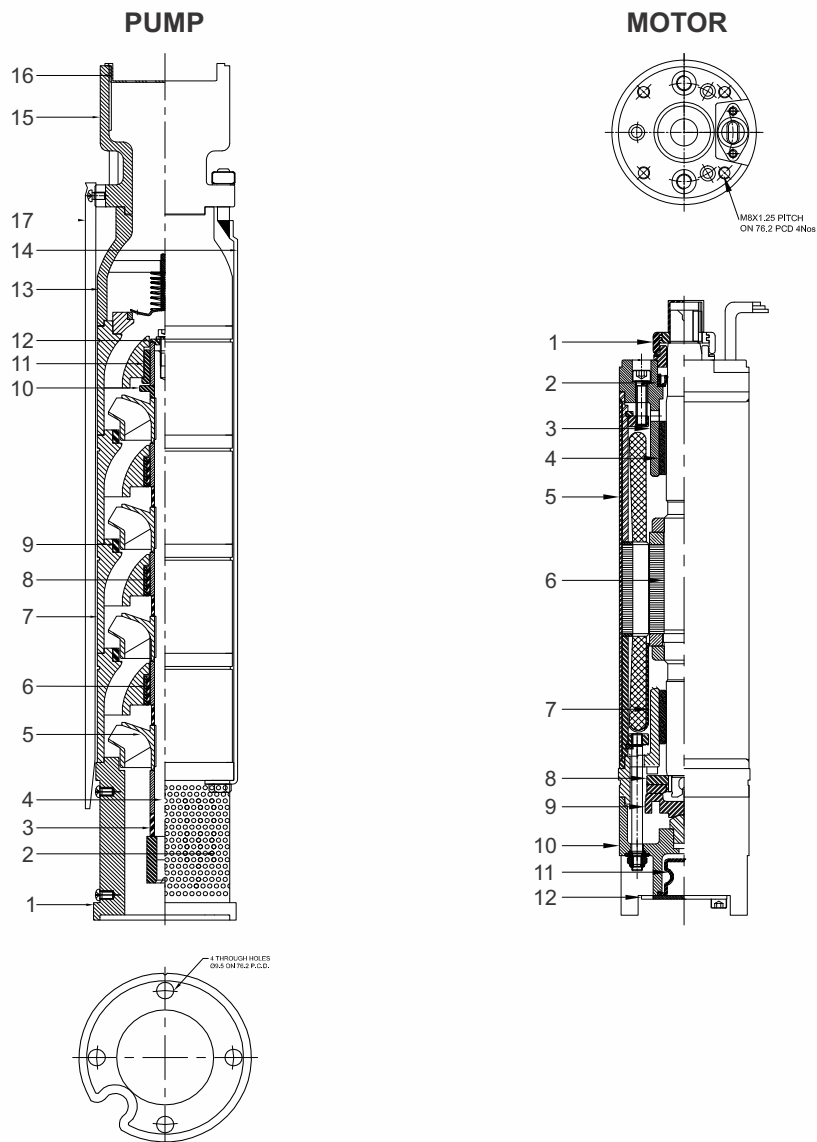
Note: Optional outlet size 2" can also be supplied for 4ZS20 models on request.



4" SUBMERSIBLE PUMP SET

Mixed Flow

Materials of Construction & Cross Sectional View - 4MS



Sr. No.	PART NAME	MATERIAL
1	SUCTION HOUSING	CI, FG-200, IS:210
2	STRAINER	ISS 202 ; IS:6911
3	SLEEVE	NORYL GFN3
4	PUMP SHAFT	ISS 420/431 ; IS:6603
5	IMPELLER	CI, FG-200, IS:210
6	RUBBER BUSH	NITRILE RUBBER + CS
7	DIFFUSER	CI, FG-200, IS:210
8	BEARING SLEEVE	ISS 410; IS:6603
9	WEAR RING	NITRILE RUBBER
10	THRUST WASHER	ISS 410; IS:6603
11	COUNTER BUSH	LTB-4 ; IS:318
12	WASHER	ISS 202
13	NRV SUPPORT	CI,FG-200,IS:210
14	T-BOLT	ISS-304
15	DISCHARGE HOUSING	C.I., FG-200, IS:210
16	NRV CAP	PVC / LDPE
17	CABLE GUARD	ISS 410 ; IS:6911

Sr. No.	PART NAME	MATERIAL
1	SAND SLINGER	NITRILE RUBBER +SS
2	OIL SEAL	NITRILE RUBBER +SS
3	ADAPTOR	CI,FG:200,IS-210
4	BEARING BUSH	LTB-4;IS:318
5	STATOR PIPE	ISS 202 ; IS:6911
6	ROTOR SHAFT	ISS 420; IS:6603
7	LOWER HOUSING	CI,FG:200,IS-210
8	THRUST BEARING PLATE	CARBON+MS
9	THRUST BEARING	ISS 410 ; IS:3444
10	MOTOR BASE	CI,FG:200, IS-210
11	DIAPHRAGM	NITRILE RUBBER
12	MOTOR BASE PLATE	ISS 410 ; IS:6911

4" SUBMERSIBLE PUMP SET

Mixed Flow

4MS12

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	7.2	9.0	10.2	12.6	14.4	17.4	20.4
			lps	0	2.00	2.50	2.83	3.50	4.00	4.83	5.67
			lpm	0	120	150	170	210	240	290	340
1.1	1.5	4	Head in Meters	23	20	19	18	16	14	9	4
1.5	2.0	6		35	30	29	27	24	20	13	6
2.2	3.0	8		46	40	38	36	32	27	18	8
2.2	3.0	9		52	45	43	41	36	31	20	9
3.0	4.0	10		58	50	48	45	40	34	22	10
4.0	5.0	12		70	60	57	54	48	41	26	12
4.0	5.0	14		81	70	67	63	56	48	31	14
4.5	6.0	15		87	75	71	68	60	51	33	15
5.5	7.5	18		104	90	86	81	72	61	40	18

4MS18

Motor Power		STAGE	Outlet size 65mm (2.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	6.0	12.0	15.0	18.0	21.0	24.0	30.0
			lps	0	1.67	3.33	4.17	5.00	5.83	6.67	8.33
			lpm	0	100	200	250	300	350	400	500
1.5	2.0	5	Head in Meters	30	27	24	22	20	17	14	8
2.2	3.0	7		42	38	34	31	28	24	20	11
2.2	3.0	8		48	43	38	35	32	27	22	12
3.0	4.0	9		54	49	43	40	36	31	25	14
3.0	4.0	10		60	54	48	44	40	34	28	15
3.7	5.0	12		72	65	58	53	48	41	34	18
4.5	6.0	14		84	76	67	62	56	48	39	21
5.5	7.5	16		96	86	77	70	64	54	45	24
5.5	7.5	18		108	97	86	79	72	61	50	27



Note: Optional outlet size 2.5" can also be supplied for 4MS12 & 2" for 4MS18 models on request.

5" SUBMERSIBLE PUMP SET

Technical Specifications

SERIES		5" RAMBO	5" SUPER-D	5" MAXI BLUE
Model		5RS	5SS	5MS
Power Range	kW	1.5 to 11 kW	1.5 to 11 kW	1.5 to 11 kW
	HP	2.0 to 15 HP	2.0 to 15 HP	2.0 to 15 HP
Nominal Outlet size	Inch	2"	2" & 2.5"	3"
	mm	50	50 & 65	80
Speed	rpm	2880	2880	2880
Discharge range	m ³ /h	3.6 to 23	2.1 to 28	16.2 to 49.8
	lpm	60 to 383	270 to 466	275 to 830
	lps	1.0 to 6.39	4.5 to 7.78	4.58 to 13.83
Head range	m	11 to 372	9 to 315	10 to 126
	ft	36 to 1220	30 to 1033	33 to 413
Max. Outer Diameter	mm	122	122	122
Method of starting	1Ph	CSCR	CSCR	CSCR
	3Ph	DOL / SD	DOL / SD	DOL / SD
Version	1Ph	180 - 230V : 1.5 to 5.5 kW	180 - 230V : 1.5 to 5.5 kW	180 - 230V : 1.5 to 5.5 kW
	3Ph	380 - 415V : 1.5 to 11 kW	380 - 415V : 1.5 to 11 kW	380 - 415V : 1.5 to 11 kW
Degree of Protection		IP 58	IP 58	IP 58
Duty		S1 continuous	S1 continuous	S1 continuous
Direction of Rotation		Anti clockwise	Anti clockwise	Anti clockwise
Maximum starts per hour		12 nos.	12 nos.	12 nos.
Minimum cooling flow		0.15 m/s	0.15 m/s	0.15 m/s

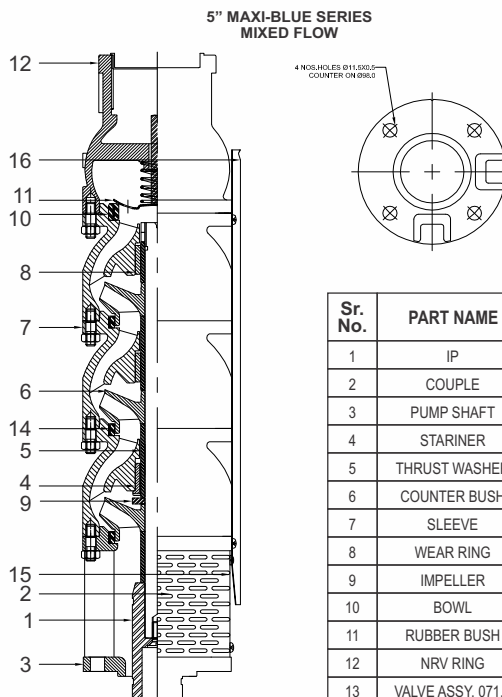
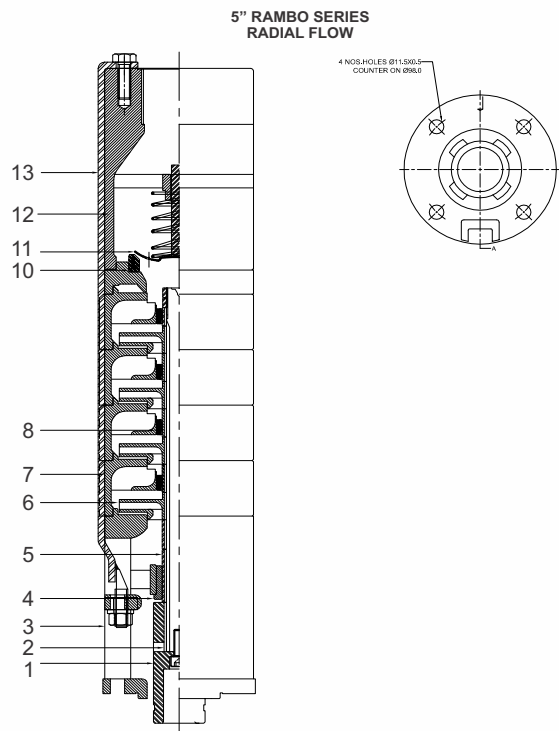


Note: Low voltage motors 160-230V (1Ph)& 350-420V (3Ph) can also be supplied on request.

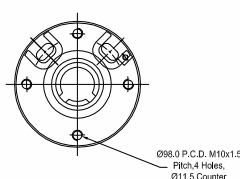
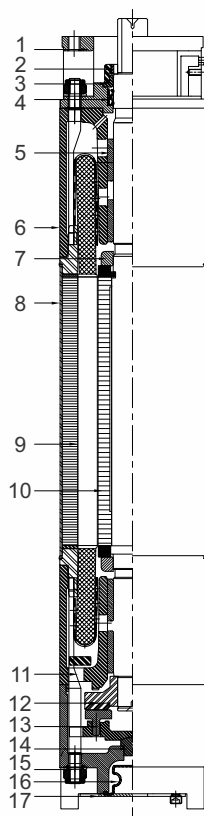
5" SUBMERSIBLE PUMP SET

Radial & Mixed Flow

Materials of Construction & Cross Sectional View - 5RS, 5SS & 5MS



Sr. No.	PART NAME	MATERIAL
1	IP	CI, FG-200; IS:210
2	COUPLE	ISS 410; IS:6603
3	PUMP SHAFT	ISS 420/431; IS:6603
4	STARINER	ISS 202; IS:6911
5	THRUST WASHER	ISS 410; IS:6603
6	COUNTER BUSH	LTB-4; IS:318
7	SLEEVE	ISS 410; IS:6603
8	WEAR RING	NITRILE RUBBER+SS
9	IMPELLER	ISS 410; IS:3444
10	BOWL	CI,FG-260; IS:210
11	RUBBER BUSH	NITRILE RUBBER+CS
12	NRV RING	NITRILE RUBBER+SS
13	VALVE ASSY. 071.0	ISS 202; IS:6911
14	CABLE GUARD	ISS 410; IS:6911
15	NRV	CI,FG-200; IS:210
16	T-BOLT	ISS 410; IS:6911



Sr. No.	PART NAME	MATERIAL
1	ADAPTOR	CI,FG-260; IS:210
2	SAND SLIGER	NITRILE RUBBER+SS
3	SAND COVER	ISS 410; IS:6603
4	OIL SEAL	NITRILE RUBBER+SS
5	BEARING BUSH	LTB-4; IS:318
6	UPPER HOUSING	CI,FG-260; IS:210
7	BALNCE RING	CI,FG-1S0; IS:210
8	STATOR PIPE	ISS 202; IS:6911
9	STATOR	STAMPING-CRNO M-47
10	ROTOR	STAMPING-CRNO M-47
11	LOWER HOUSING	CI,FG-260; IS:210
12	THRUST BASE PLATE	MS+CARBON
13	THRUST BEARING	ISS 420; IS:3444
14	ROCKER SUPPORT	ISS 410; IS:6603
15	MOTOR BASE	CI,FG-260; IS:210
16	DIAPHRAGM	NITRILE RUBBER
17	MOTOR BASE PLATE	ISS 410; IS:6911

5" SUBMERSIBLE PUMP SET
Radial Flow
5RS30

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	3.6	4.2	5.4	6.0	8.4	10.5	11.4
			lps	0	1.00	1.20	1.50	1.70	2.30	2.90	3.20
			lpm	0	60	70	90	100	140	175	190
1.5	2.0	7	Head in Meters	63	56	55	51	49	39	28	21
2.2	3.0	10		90	80	78	73	70	56	40	30
3.0	4.0	12		108	96	94	88	84	67	48	36
3.0	4.0	14		126	112	109	102	98	78	56	42
3.7	5.0	16		144	128	125	117	112	90	64	48
4.5	6.0	20		180	160	156	146	140	112	80	60
5.5	7.5	24		216	192	187	175	168	134	96	72
5.5	7.5	25		225	200	195	183	175	140	100	75
7.5	10.0	30		270	240	234	219	210	168	120	90
9.3	12.5	35		315	280	273	256	245	196	140	105
11.0	15.0	40		360	320	312	292	280	224	160	120
11.0	15.0	45		405	360	351	329	315	252	180	135

5RS40

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	4.2	5.1	6.0	7.2	7.8	8.4	9.6
			lps	0	1.20	1.40	1.70	2.00	2.20	2.30	2.70
			lpm	0	70	85	100	120	130	140	160
* 1.5	2.0	5	Head in Meters	49	47	45	44	40	38	35	30
* 2.2	3.0	8		78	74	72	70	64	60	56	48
* 3.0	4.0	10		97	93	90	87	80	75	70	60
* 3.7	5.0	12		116	112	108	104	96	90	84	72
4.5	6.0	15		146	140	135	131	120	113	105	90
5.5	7.5	20		194	186	180	174	160	150	140	120
7.5	10.0	25		243	233	225	218	200	188	175	150
9.3	12.5	30		291	279	270	261	240	225	210	180
11.0	15.0	35		340	326	315	305	280	263	245	210
11.0	15.0	40		388	372	360	348	320	300	280	240



5" SUBMERSIBLE PUMP SET
Radial Flow
5RS50

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	5.4	7.5	8.4	9.6	10.8	12.3	13.8
			lps	0	1.50	2.10	2.30	2.70	3.00	3.40	3.80
			lpm	0	90	125	140	160	180	205	230
1.5	2.0	4	Head in Meters	40	39	37	35	32	28	21	12
* 2.2	3.0	6		60	58	55	53	48	41	31	18
3.0	4.0	8		80	78	74	70	64	55	42	24
* 3.7	5.0	10		100	97	92	88	80	69	52	30
4.5	6.0	12		120	116	110	106	96	83	62	36
5.5	7.5	14		140	136	129	123	112	97	73	42
5.5	7.5	15		150	146	138	132	120	104	78	45
7.5	10.0	20		200	194	184	176	160	138	104	60
9.3	12.5	25		250	243	230	220	200	173	130	75
11.0	15.0	30		300	291	276	264	240	207	156	90

5RS60

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	5.4	7.8	10.2	12.6	14.1	15.0	16.2
			lps	0	1.50	2.20	2.80	3.50	3.90	4.20	4.50
			lpm	0	90	130	170	210	235	250	270
1.5	2.0	4	Head in Meters	42	39	38	36	32	26	21	12
* 2.2	3.0	5		53	49	47	45	40	33	26	15
3.0	4.0	6		63	59	56	53	48	39	31	18
3.0	4.0	7		74	69	66	62	56	46	36	21
3.7	5.0	8		84	78	75	71	64	52	42	24
4.5	6.0	10		105	98	94	89	80	65	52	30
5.5	7.5	12		126	118	113	107	96	78	62	36
7.5	10.0	15		158	147	141	134	120	98	78	45
7.5	10.0	16		168	157	150	142	128	104	83	48
9.3	12.5	20		210	196	188	178	160	130	104	60
11.0	15.0	25	263	245	235	223	200	163	130	75	

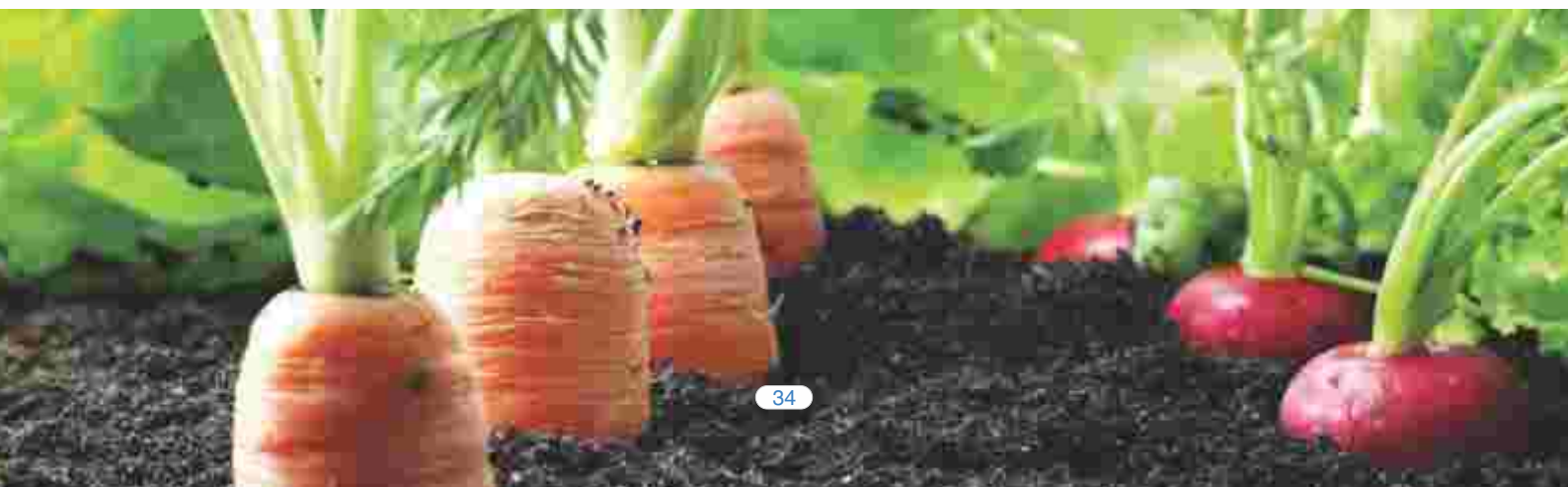


5" SUBMERSIBLE PUMP SET

Radial Flow

5RS75

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	10.8	12.3	14.1	15.9	16.8	18.0	19.2
			lps	0	3.00	3.40	3.90	4.40	4.70	5.00	5.30
			lpm	0	180	205	235	265	280	300	320
1.5	2.0	3	Head in Meters	33	28	27	26	24	22	18	14
2.2	3.0	4		44	37	36	34	32	30	24	18
3.0	4.0	5		55	47	45	43	40	37	31	23
3.7	5.0	6		66	56	54	52	48	44	37	27
3.7	5.0	7		77	65	63	60	56	52	43	32
4.5	6.0	8		88	74	72	69	64	59	49	36
5.5	7.5	10		110	93	90	86	80	74	61	45
7.5	10.0	12		132	112	108	103	96	89	73	54
7.5	10.0	14		154	130	126	120	112	104	85	63
9.3	12.5	16		176	149	144	138	128	118	98	72
9.3	12.5	18		198	167	162	155	144	133	110	81
11.0	15.0	20		220	186	180	172	160	148	122	90



5" SUBMERSIBLE PUMP SET

Radial Flow

5RS100

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	12.6	15	18	20.4	21.6	22.5	23.4
			lps	0	3.50	4.17	5.00	5.70	6.00	6.30	6.50
			lpm	0	210	250	300	340	360	375	390
1.5	2.0	2	Head in Meters	22	19	18	17	16	15	13	11
2.2	3.0	3		33	29	28	26	24	22	20	17
3.0	4.0	4		44	38	37	34	32	29	26	22
3.7	5.0	5		55	48	46	43	40	37	33	28
4.5	6.0	6		66	58	55	52	48	44	39	33
5.5	7.5	7		77	67	64	60	56	51	46	39
5.5	7.5	8		88	77	74	69	64	58	52	44
7.5	10.0	9		99	86	83	77	72	66	59	50
7.5	10.0	10		110	96	92	86	80	73	65	55
9.3	12.5	11		121	106	101	95	88	80	72	61
9.3	12.5	12		132	115	110	103	96	88	78	66
9.3	12.5	13		143	125	120	112	104	95	85	72
11.0	15.0	15	165	144	138	129	120	110	98	83	



5" SUBMERSIBLE PUMP SET

40 feet
per stage

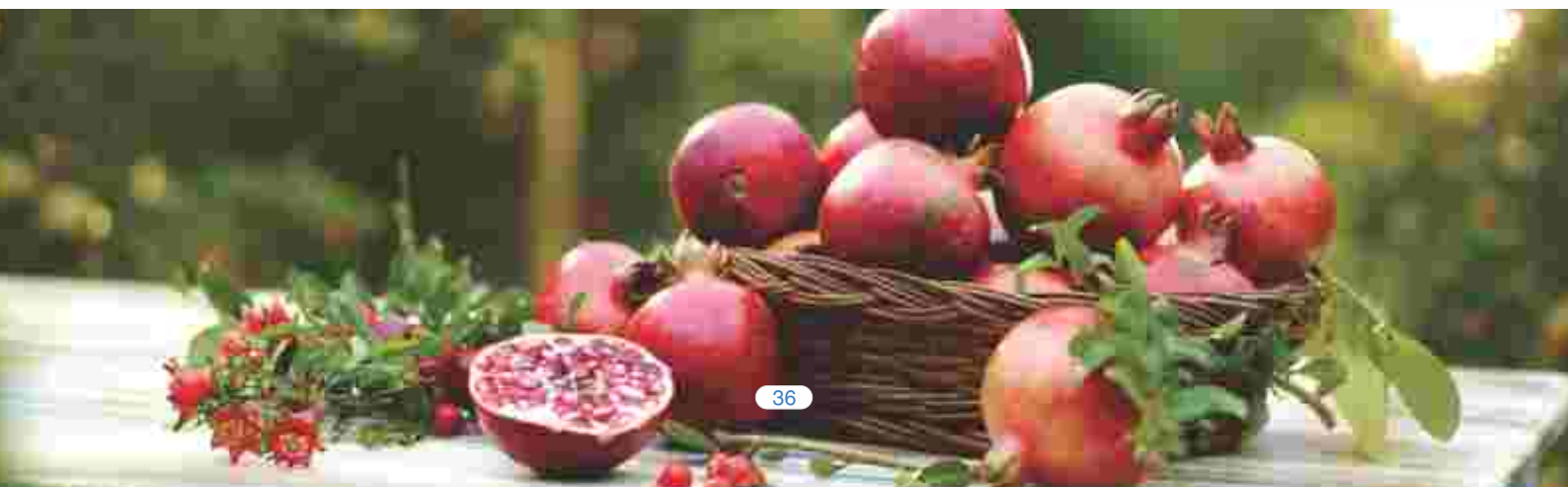
Radial Flow
High Head

5SS30

Motor Power		STAGE	Outlet size 50mm (2")					50Hz			
			Discharge								
kW	HP		m³/h	0.0	2.1	3.3	3.9	4.5	5.4	6.6	13.5
			lps	0.0	0.60	0.90	1.10	1.30	1.50	1.80	3.80
			lpm	0.0	35	55	65	75	90	110	130
1.5	2.0	7	Head in Meters	84	81	77	74	70	63	50	35
2.2	3.0	10		120	115	110	106	100	90	72	50
3.0	4.0	12		144	138	132	127	120	108	86	60
3.0	4.0	14		168	161	154	148	140	126	101	70
3.7	5.0	16		192	184	176	170	160	144	115	80
4.5	6.0	20		240	230	220	212	200	180	144	100
5.5	7.5	25		300	288	275	265	250	225	180	125

5SS40

Motor Power		STAGE	Outlet size 50mm (2")					50Hz			
			Discharge								
kW	HP		m³/h	0.0	3.3	4.3	5.1	6.0	7.2	8.4	13.5
			lps	0.0	0.90	1.20	1.40	1.70	2.00	2.30	3.80
			lpm	0.0	55	72	85	100	120	140	160
1.5	2.0	5	Head in Meters	63	58	56	54	50	43	34	23
2.2	3.0	8		100	93	89.6	86	80	68	54	36
3.0	4.0	10		125	116	112	108	100	85	68	45
3.7	5.0	12		150	139	134	130	120	102	82	54
4.5	6.0	15		188	174	168	162	150	128	102	68
5.5	7.5	20		250	232	224	216	200	170	136	90
7.5	10.0	25		313	290	280	270	250	213	170	113



5" SUBMERSIBLE PUMP SET
40 feet
per stage

**Radial Flow
High Head**
5SS50

Motor Power		STAGE	Outlet size 50mm (2")					50Hz			
			Discharge								
kW	HP		m³/h	0.0	3.3	4.5	6.0	7.8	9.0	9.9	13.5
			lps	0.0	0.90	1.30	1.70	2.20	2.50	2.80	3.80
			lpm	0.0	55	75	100	130	150	165	180
1.5	2.0	4	Head in Meters	52	48	46	44	40	35	29	20
2.2	3.0	6		78	72	69	66	60	53	43	30
3.0	4.0	8		104	96	92	88	80	70	58	40
3.7	5.0	10		130	120	116	110	100	88	72	50
4.5	6.0	12		156	144	139	132	120	106	86	60
5.5	7.5	15		195	180	174	165	150	132	108	75
7.5	10.0	20		260	240	232	220	200	176	144	100
9.3	12.5	25		325	300	290	275	250	220	180	125

5SS60

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0.0	5.4	8.4	9.6	10.8	12.0	13.2	13.5
			lps	0.0	1.5	2.30	2.70	3.00	3.30	3.70	3.80
			lpm	0.0	90	140	160	180	200	220	240
1.5	2.0	4	Head in Meters	53	50	47	45	40	32	22	7
2.2	3.0	5		67	63	59	56	50	40	27	9
3.0	4.0	7		93	88	83	78	70	56	38	13
3.7	5.0	8		106	101	94	90	80	64	43	14
4.5	6.0	10		133	126	118	112	100	80	54	18
5.5	7.5	12		160	151	142	134	120	96	65	22
7.5	10.0	16		213	202	189	179	160	128	86	29
9.3	12.5	18		239	227	212	202	180	144	97	32
11.0	15.0	22		293	277	260	246	220	176	119	40
11.0	15.0	25		333	315	295	280	250	200	135	45

Note: Optional outlet size 2.5" can also be supplied on request.



5" SUBMERSIBLE PUMP SET
40 feet
per stage

**Radial Flow
High Head**
5SS80

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0.0	8.4	10.2	12.0	13.8	15.6	16.8	16.5
			lps	0.0	2.30	2.80	3.30	3.80	4.30	4.70	4.60
			lpm	0	140	170	200	230	260	280	300
1.5	2.0	3	Head in Meters	41	37	36	34	30	24	19	12
2.2	3.0	4		54	50	48	45	40	32	25	16
3.0	4.0	5		68	62	60	56	50	40	32	20
3.7	5.0	6		81	74	72	67	60	48	38	24
4.5	6.0	8		108	99	96	90	80	64	50	32
5.5	7.5	10		135	124	120	112	100	80	63	40
7.5	10.0	12		162	149	144	134	120	96	76	48
9.3	12.5	15		203	186	180	168	150	120	95	60
11.0	15.0	18		243	223	216	202	180	144	113	72

5SS100

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0.0	9.6	12.6	15.0	16.8	18.0	19.2	21.0
			lps	0.0	2.70	3.50	4.20	4.70	5.00	5.3	5.8
			lpm	0	160	210	250	280	300	320	350
1.5	2.0	2	Head in Meters	28	26	25	22	20	18	14	7
2.2	3.0	3		43	40	37	34	30	26	22	11
3.0	4.0	4		57	53	50	45	40	35	29	14
3.7	5.0	5		71	66	62	56	50	44	36	18
4.5	6.0	6		85	79	74	67	60	53	43	22
5.5	7.5	8		114	106	99	90	80	70	58	29
7.5	10.0	10		142	132	124	112	100	88	72	36
9.3	12.5	12		170	158	149	134	120	106	86	43
11.0	15.0	15		213	198	186	168	150	132	108	54



5" SUBMERSIBLE PUMP SET

40 feet
per stage

Radial Flow
High Head

5SS125

Motor Power		STAGE	Outlet size 65mm (2.5")						50Hz		
			Discharge								
kW	HP		m³/h	0.0	10.2	15.0	18.0	21.6	25.2	28.8	31.7
			lps	0.0	2.80	4.20	5.00	6.00	7.00	8.00	8.80
			lpm	0	170	250	300	360	420	480	530
2.2	3.0	2	Head in Meters	25	24	23	22	20	15	9	4
3.0	4.0	3		38	36	34	34	30	23	14	6
3.7	5.0	4		50	48	46	45	40	30	18	8
4.5	6.0	5		63	60	58	56	50	38	23	10
5.5	7.5	6		75	71	69	67	60	45	28	12
7.5	10.0	8		100	95	92	90	80	60	37	16
9.3	12.5	10		125	119	116	112	100	75	46	20
11.0	15.0	12		150	143	139	134	120	90	55	24



5" SUBMERSIBLE PUMP SET
Mixed Flow
5MS10

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	16.2	19.8	22.8	27.0	30.0	33.0	36.0
			lps	0	4.50	5.50	6.30	7.50	8.30	9.20	10.00
			lpm	0	270	330	380	450	500	550	600
1.5	2.0	2	Head in Meters	19	17	16	15	14	12	10	8
2.2	3.0	3		29	25	24	23	20	18	15	12
3.0	4.0	4		38	34	32	30	27	24	20	16
3.7	5.0	5		48	42	40	38	34	30	25	20
* 4.5	6.0	6		58	50	48	46	41	36	30	24
5.5	7.5	7		67	59	56	53	48	42	35	28
5.5	7.5	8		77	67	64	61	54	48	40	32
7.5	10.0	9		86	76	72	68	61	54	45	36
7.5	10.0	10		96	84	80	76	68	60	50	40
9.3	12.5	12		115	101	96	91	82	72	60	48
11.0	15.0	15		144	126	120	114	102	90	75	60

5MS12

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	17.4	22.8	27.6	33.0	37.2	40.8	45.0
			lps	0	4.80	6.30	7.70	9.20	10.30	11.30	12.50
			lpm	0	290	380	460	550	620	680	750
* 2.2	3.0	2	Head in Meters	20	18	17	16	14	12	10	7
* 3.0	4.0	3		30	26	25	23	20	18	14	11
* 3.7	5.0	4		40	35	33	31	27	24	19	14
4.5	6.0	5		50	44	42	39	34	30	24	18
* 5.5	7.5	6		60	53	50	47	41	35	29	21
* 7.5	10.0	8		80	70	66	62	54	47	38	28
9.3	12.5	10		100	88	83	78	68	59	48	35
11.0	15.0	12		120	106	100	94	82	71	58	42



Note: Optional outlet size 2.5" can also be supplied on request.

5" SUBMERSIBLE PUMP SET

Mixed Flow

5MS15

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	27.6	31.8	36.6	40.8	44.4	47.4	49.8
			lps	0	7.70	8.80	10.20	11.30	12.30	13.20	13.80
			lpm	0	460	530	610	680	740	790	830
2.2	3.0	2	Head in Meters	21	16	16	15	14	13	12	10
3.7	5.0	3		32	25	23	22	21	20	17	15
4.5	6.0	4		43	33	31	30	28	26	23	20
5.5	7.5	5		54	41	39	37	35	33	29	25
7.5	10.0	7		75	57	55	52	49	46	41	35
9.3	12.5	8		86	66	62	59	56	52	46	40
11.0	15.0	10		107	82	78	74	70	65	58	50



6" SUBMERSIBLE PUMP SET

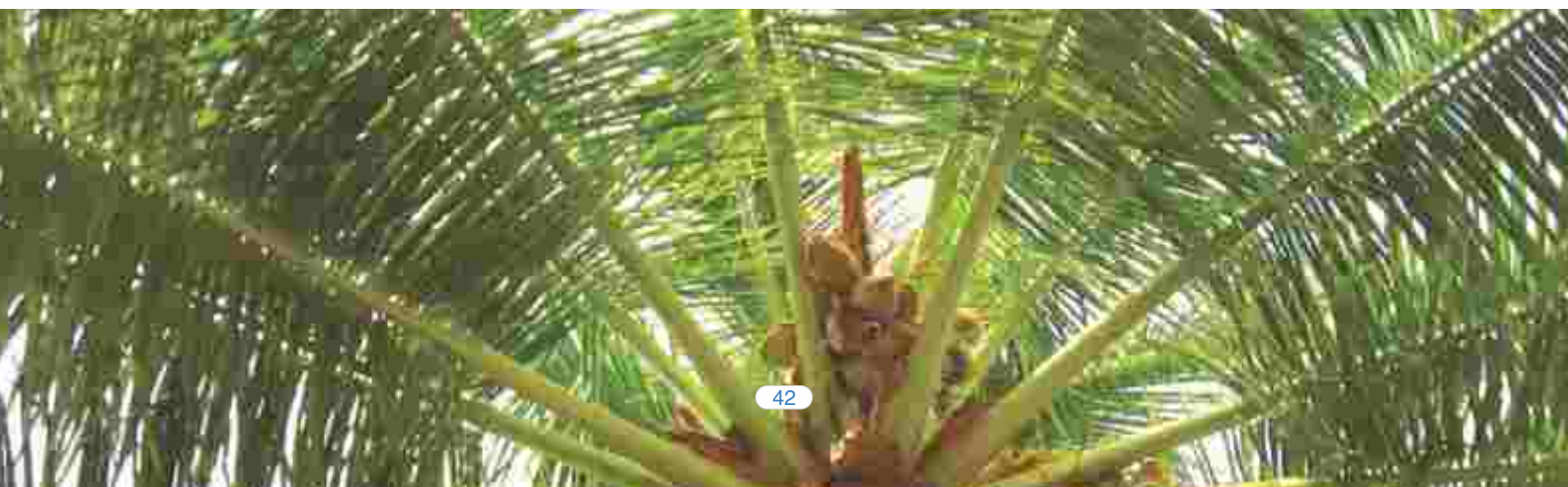
Radial Flow

Technical Specifications

SERIES		6" RAMBO	6" SUPER-D
Model		6RS	6SS
Power Range	kW	2.2 to 22 kW	2.2 to 22 kW
	HP	3.0 to 30 HP	3.0 to 30 HP
Nominal Outlet size	Inch	2"	2", 2.5" & 3"
	mm	50	50, 65 & 80
Speed	rpm	2880	2880
Discharge range	m ³ /h	3 to 27.9	3 to 49.8
	lpm	50 to 465	50 to 830
	lps	0.83 to 7.75	0.83 to 13.83
Head range	m	20 to 378	14 to 525
	ft	65 to 1240	46 to 1722
Max. Outer Diameter	mm	144	146
Method of starting	1Ph	CSCR	CSCR
	3Ph	DOL / SD	DOL / SD
Version	1Ph	180 - 230V : 2.2 to 7.5 kW	180 - 230V : 2.2 to 7.5 kW
	3Ph	380 - 415V : 2.2 to 22 kW	380 - 415V : 2.2 to 22 kW
Degree of Protection		IP 58	IP 58
Duty		S1 continuous	S1 continuous
Direction of Rotation		Anti clockwise	Anti clockwise
Maximum starts per hour		12 nos.	12 nos.
Minimum cooling flow		0.15 m/s	0.15 m/s



Note: Low voltage motors 160-230V (1Ph) & 350-420V (3Ph) can also be supplied on request.

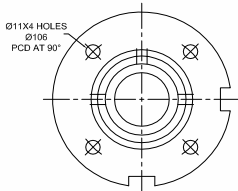
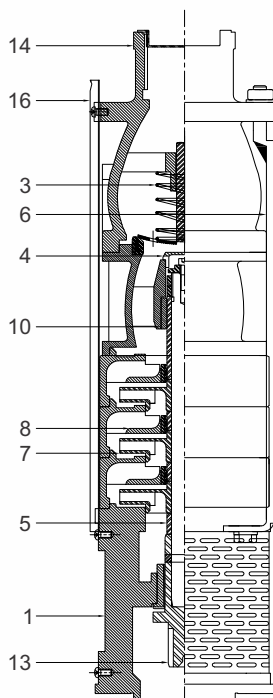


6" SUBMERSIBLE PUMP SET

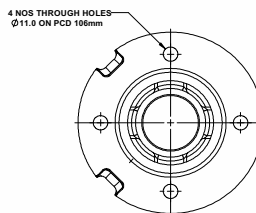
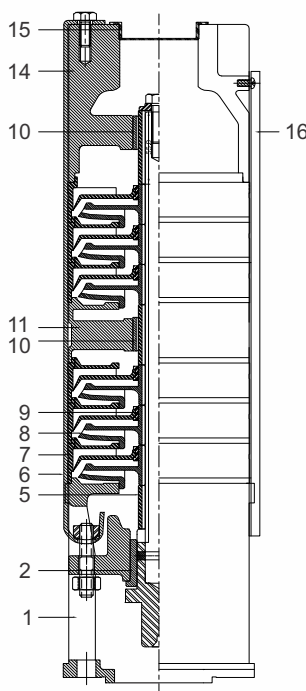
Radial Flow

Materials of Construction & Cross Sectional View - 6RS

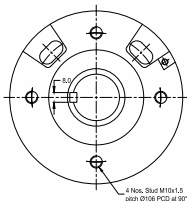
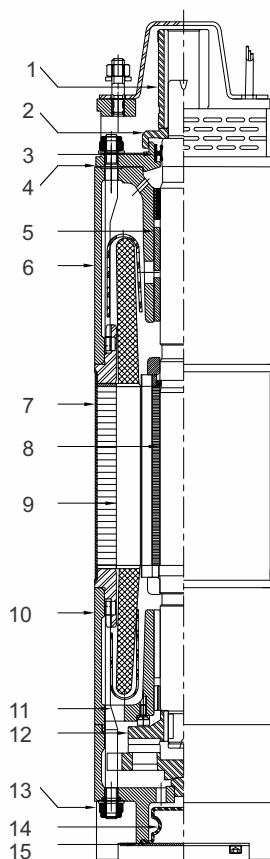
6" RAMBO SERIES
RADIAL FLOW



6" SUPER-D SERIES
RADIAL FLOW (HIGH HEAD)



6" MOTOR



Sr. No.	PART NAME	MATERIAL
1	SUCTION HOUSING	CI,FG-200; IS:210
2	COUNTER BUSH	LTB-4; IS:318
3	VALVE ASSY.	ISS 202; IS:6911
4	BOWL CAP	PP CP-3530
5	BEARING SLEEVE	ISS 410; IS:6603
6	T-BOLT	ISS 410; IS:6911
7	DIFFUSER	ISS 304; IS:6911
8	IMPELLER	ISS 410; IS:6911
9	RUBBER BUSH	NITRILE RUBBER
10	BEARING BUSH	LTB-4; IS:318
11	MIDDLE BRACKET	ISS 410; IS:6911
12	THRUST WASHER	ISS 410; IS:6603
13	PUMP SHAFT	ISS 420/431; IS:210
14	DISCHARGE HOUSING	CI,FG-200; IS:210
15	NRV CAP	HDPE
16	CABLE GUARD	ISS 202; IS:6911

Sr. No.	PART NAME	MATERIAL
1	COUPLE	ISS 410; IS:3444
2	SAND GUARD	ISS 410; IS:3444
3	OIL SEAL	NITRILE RUBBER+SS
4	ADAPTOR	CI,FG-260,IS-210
5	BEARING BUSH	LTB-4
6	UPPER HOUSING	CI,FG-260,IS-210
7	STATOR PIPE	ISS 202; IS:6911
8	ROTOR SHAFT	ISS 420/431; IS:6603
9	STAMPING	CRNO-M47
10	LOWER HOUSING	CI,FG-260,IS-210
11	T-BOLT	CARBON STEEL; EN-8
12	THRUST BEARING	SS AISI-410, CARBON
13	MOTOR BASE	CI,FG-260,IS-210
14	DIAPHRAGM	NITRILE RUBBER
15	MOTOR BASE PLATE	SS AISI-410

6" SUBMERSIBLE PUMP SET
Radial Flow
6RS30

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	3.0	3.6	4.2	5.4	6.6	7.8	9.0
			lps	0	0.80	1.00	1.20	1.50	1.80	2.20	2.50
			lpm	0	50	60	70	90	110	130	150
2.2	3.0	10	Head in Meters	108	95	92	88	79	71	63	54
3.0	4.0	12		132	118	112	104	95	85	76	65
3.0	4.0	14		154	137	130	122	111	99	88	76
3.7	5.0	16		176	157	149	139	126	114	101	86
4.5	6.0	20		220	196	186	174	158	142	126	108
* 5.5	7.5	25		275	245	233	218	198	178	158	135
* 5.5	7.5	28		308	274	260	244	221	199	176	151
* 7.5	10.0	30		330	294	279	261	237	213	189	162
9.3	12.5	35		385	343	326	305	277	249	221	189

6RS40

Motor Power		STAGE	Outlet size 50mm (2")					50Hz			
			Discharge								
kW	HP		m³/h	0	4.5	5.1	5.7	7.2	8.1	9.0	10.8
			lps	0	1.30	1.40	1.60	2.00	2.30	2.50	3.00
			lpm	0	75	85	95	120	135	150	180
2.2	3.0	7	Head in Meters	84	69	67	65	61	58	55	49
2.2	3.0	8		96	79	77	74	70	66	63	56
3.0	4.0	10		120	99	96	93	87	83	79	70
* 3.7	5.0	12		144	119	115	112	104	100	95	84
* 3.7	5.0	14		168	139	134	130	122	116	111	98
4.5	6.0	15		180	149	144	140	131	125	119	105
* 5.5	7.5	20		240	198	192	186	174	166	158	140
* 7.5	10.0	25		300	248	240	233	218	208	198	175
9.3	12.5	30		360	297	288	279	261	249	237	210
11.0	15.0	35		420	347	336	326	305	291	277	245



6" SUBMERSIBLE PUMP SET
Radial Flow
6RS50

Motor Power		STAGE	Outlet size 50mm (2")							50Hz	
			Discharge								
kW	HP		m³/h	0	5.1	6.6	7.8	9.0	10.5	12.6	13.5
			lps	0	1.40	1.80	2.20	2.50	2.90	3.50	3.80
			lpm	0	85	110	130	150	175	210	225
* 2.2	3.0	6	Head in Meters	72	61	58	55	52	49	43	41
* 3.0	4.0	8		96	82	77	74	70	65	58	54
* 3.7	5.0	10		120	102	96	92	87	81	72	68
* 4.5	6.0	12		144	122	115	110	104	97	86	82
* 5.5	7.5	14		168	143	134	129	122	113	101	95
* 5.5	7.5	15		180	153	144	138	131	122	108	102
* 5.5	7.5	16		192	163	154	147	139	130	115	109
* 7.5	10.0	18		216	184	173	166	157	146	130	122
* 7.5	10.0	20		240	204	192	184	174	162	144	136
* 9.3	12.5	25		300	255	240	230	218	203	180	170
* 11.0	15.0	30		360	306	288	276	261	243	216	204
* 13.0	17.5	35		420	357	336	322	305	284	252	238

6RS60

Motor Power		STAGE	Outlet size 50mm (2")							50Hz	
			Discharge								
kW	HP		m³/h	0	5.4	7.8	9.6	11.4	13.2	14.4	15.6
			lps	0	1.50	2.20	2.70	3.20	3.70	4.00	4.30
			lpm	0	90	130	160	190	220	240	260
* 2.2	3.0	5	Head in Meters	60	54	51	47	44	38	33	28
3.0	4.0	6		72	65	61	56	52	45	39	33
* 3.0	4.0	7		84	76	71	66	61	53	46	39
* 3.7	5.0	8		96	86	81	75	70	60	52	44
* 4.5	6.0	10		120	108	101	94	87	75	65	55
* 5.5	7.5	12		144	130	121	113	104	90	78	66
* 7.5	10.0	15		180	162	152	141	131	113	98	83
* 7.5	10.0	16		192	173	162	150	139	120	104	88
* 9.3	12.5	20		240	216	202	188	174	150	130	110
* 11.0	15.0	25		300	270	253	235	218	188	163	138
13.0	17.5	28		336	302	283	263	244	210	182	154
13.0	17.5	30		360	324	303	282	261	225	195	165
15.0	20.0	32		384	346	323	301	278	240	208	176
15.0	20.0	35		420	378	354	329	305	263	228	193



6" SUBMERSIBLE PUMP SET

Radial Flow

6RS75

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	10.8	12.6	13.8	14.4	15.6	16.2	17.1
			lps	0	3.00	3.50	3.80	4.00	4.30	4.50	4.80
			lpm	0	180	210	230	240	260	270	285
* 2.2	3.0	4	Head in Meters	48	38	37	36	35	34	33	30
* 3.0	4.0	5		60	48	46	45	44	42	41	38
* 3.7	5.0	6		72	58	55	54	52	50	49	46
* 3.7	5.0	7		84	67	64	63	61	59	57	53
* 4.5	6.0	8		96	77	74	72	70	67	66	61
* 5.5	7.5	10		120	96	92	90	87	84	82	76
* 7.5	10.0	12		144	115	110	108	104	101	98	91
* 7.5	10.0	14		168	134	129	126	122	118	115	106
* 9.3	12.5	16		192	154	147	144	139	134	131	122
* 9.3	12.5	18		216	173	166	162	157	151	148	137
* 11.0	15.0	20		240	192	184	180	174	168	164	152
13.0	17.5	24		288	230	221	216	209	202	197	182
13.0	17.5	25		300	240	230	225	218	210	205	190
* 15.0	20.0	26		312	250	239	234	226	218	213	198
18.5	25.0	30		360	288	276	270	261	252	246	228
18.5	25.0	32		384	307	294	288	278	269	262	243



6" SUBMERSIBLE PUMP SET
Radial Flow
6RS100

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	14.7	15.9	17.7	19.2	21.0	22.2	23.7
			lps	0	4.10	4.40	4.90	5.30	5.80	6.20	6.60
			lpm	0	245	265	295	320	350	370	395
		Head in Meters	* 2.2	3.0	3	38	32	30	29	26	24
* 3.0	4.0		4	50	42	40	38	35	32	30	26
* 3.7	5.0		5	63	53	50	48	44	40	38	33
* 4.5	6.0		6	75	63	60	57	52	48	45	39
* 5.5	7.5		7	88	74	70	67	61	56	53	46
5.5	7.5		8	100	84	80	76	70	64	60	52
* 7.5	10.0		9	113	95	90	86	78	72	68	59
* 7.5	10.0		10	125	105	100	95	87	80	75	65
* 7.5	10.0		11	138	116	110	105	96	88	83	72
9.3	12.5		12	150	126	120	114	104	96	90	78
* 9.3	12.5		13	163	137	130	124	113	104	98	85
11.0	15.0		14	175	147	140	133	122	112	105	91
11.0	15.0		15	188	158	150	143	131	120	113	98
11.0	15.0		16	200	168	160	152	139	128	120	104
13.0	17.5		18	225	189	180	171	157	144	135	117
* 15.0	20.0		20	250	210	200	190	174	160	150	130
18.5	25.0		25	313	263	250	238	218	200	188	163

6RS125

Motor Power		STAGE	Outlet size 50mm (2")							50Hz	
			Discharge								
kW	HP		m3/h	0	18.3	20.4	21.9	24.3	25.5	26.7	27.9
			lps	0	5.10	5.70	6.10	6.75	7.10	7.40	7.80
			lpm	0	305	340	365	405	425	445	465
3.0	4.0	3	Head in Meters	38	31	29	28	26	24	23	20
3.7	5.0	4		50	41	39	38	35	33	30	27
4.5	6.0	5		63	51	49	47	44	41	38	34
5.5	7.5	6		75	62	59	56	52	49	45	40
7.5	10.0	8		100	82	78	75	70	65	60	54
9.3	12.5	10		125	103	98	94	87	81	75	67
11.0	15.0	12		150	123	117	113	104	98	90	80
13.0	17.5	14		175	144	137	131	122	114	105	94
15.0	20.0	16		200	164	156	150	139	130	120	107
18.5	25.0	20		250	205	195	188	174	163	150	134
22.0	30.0	24		300	246	234	225	209	195	180	161
22.0	30.0	25		313	256	244	234	218	203	188	168



6" SUBMERSIBLE PUMP SET
60 feet
per stage

**Radial Flow
High Head**
6SS50

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	3.0	4.8	5.4	6.3	8.4	9.6	10.5
			lps	0	0.83	1.33	1.50	1.75	2.33	2.67	2.92
			lpm	0	50	80	90	105	140	160	175
* 2.2	3.0	6	Head in Meters	102	93	84	79	72	54	42	33
* 3.0	4.0	8		136	124	112	106	96	72	56	44
* 3.7	5.0	10		170	155	140	132	120	90	70	55
* 4.5	6.0	12		204	186	168	158	144	108	84	66
* 5.5	7.5	15		255	233	210	198	180	135	105	83
* 7.5	10.0	20		340	310	280	264	240	180	140	110
* 9.3	12.5	25		425	388	350	330	300	225	175	138
* 11.0	15.0	30		510	465	420	396	360	270	210	165

6SS60

Motor Power		STAGE	Outlet size 50mm (2")					50Hz			
			Discharge								
kW	HP		m³/h	0	4.2	5.4	6.6	7.5	9.0	10.8	12.6
			lps	0	1.17	1.50	1.83	2.08	2.50	3.00	3.50
			lpm	0	70	90	110	125	150	180	210
* 2.2	3.0	5	Head in Meters	85	75	71	66	60	51	39	29
3.0	4.0	7		119	105	99	92	84	71	55	41
* 3.7	5.0	8		136	120	114	106	96	82	62	46
* 4.5	6.0	10		170	150	142	132	120	102	78	58
* 5.5	7.5	12		204	180	170	158	144	122	94	70
7.5	10.0	14		238	210	199	185	168	143	109	81
* 7.5	10.0	16		272	240	227	211	192	163	125	93
* 9.3	12.5	18		306	270	256	238	216	184	140	104
* 9.3	12.5	20		340	300	284	264	240	204	156	116
* 11.0	15.0	25		425	375	355	330	300	255	195	145
13.0	17.5	30		510	450	426	396	360	306	234	174
15.0	20.0	35		595	525	497	462	420	357	273	203



6" SUBMERSIBLE PUMP SET
60 feet
per stage

**Radial Flow
High Head**
6SS80

Motor Power		STAGE	Outlet size 50mm (2")						50Hz		
			Discharge								
kW	HP		m³/h	0	5.1	7.8	9.6	10.8	13.2	15.0	16.2
			lps	0	1.40	2.17	2.67	3.00	3.67	4.17	4.50
			lpm	0	85	130	160	180	220	250	270
2.2	3.0	4	Head in Meters	70	64	58	52	48	40	32	26
3.0	4.0	5		88	80	73	65	60	50	41	33
3.7	5.0	6		105	96	87	78	72	60	49	39
* 4.5	6.0	8		140	128	116	104	96	80	65	52
* 5.5	7.5	10		175	160	145	130	120	100	81	65
* 7.5	10.0	12		210	192	174	156	144	120	97	78
9.3	12.5	15		263	240	218	195	180	150	122	98
11.0	15.0	18		315	288	261	234	216	180	146	117
13.0	17.5	22		385	352	319	286	264	220	178	143
* 15.0	20.0	25		438	400	363	325	300	250	203	163

6SS100

Motor Power		STAGE	Outlet size 65mm (2.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	6.0	10.8	13.2	15.0	17.4	19.2	21.0
			lps	0	1.67	3.00	3.67	4.17	4.83	5.33	5.83
			lpm	0	100	180	220	250	290	320	350
* 2.2	3.0	3	Head in Meters	53	49	44	40	36	30	26	20
3.0	4.0	4		70	65	58	53	48	40	34	27
3.7	5.0	5		88	82	73	66	60	50	43	34
4.5	6.0	6		105	98	87	79	72	60	51	41
5.5	7.5	8		140	130	116	106	96	80	68	54
* 7.5	10.0	10		175	163	145	132	120	100	85	68
* 9.3	12.5	12		210	196	174	158	144	120	102	82
* 11.0	15.0	15		263	245	218	198	180	150	128	102
* 13.0	17.5	18		315	293	261	238	216	180	153	122
* 15.0	20.0	20		350	326	290	264	240	200	170	136
18.5	25.0	25		438	408	363	330	300	250	213	170



6" SUBMERSIBLE PUMP SET
60 feet
per stage

Radial Flow
High Head

6SS125

Motor Power		STAGE	Outlet size 65mm (2.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	10.2	13.2	16.5	18.0	21.6	23.4	25.8
			lps	0	2.83	3.67	4.60	5.00	6.00	6.50	7.17
			lpm	0	170	220	275	300	360	390	430
3.0	4.0	3	Head in Meters	53	47	44	39	36	29	26	20
* 3.7	5.0	4		71	63	59	52	48	39	34	27
4.5	6.0	5		89	79	74	65	60	49	43	34
5.5	7.5	6		107	95	88	78	72	59	51	41
* 7.5	10.0	8		142	126	118	104	96	78	68	54
9.3	12.5	10		178	158	147	130	120	98	85	68
* 11.0	15.0	12		214	190	176	156	144	118	102	82
13.0	17.5	14		249	221	206	182	168	137	119	95
* 15.0	20.0	16		285	253	235	208	192	157	136	109
18.5	25.0	20		356	316	294	260	240	196	170	136

6SS150

Motor Power		STAGE	Outlet size 65mm (2.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	13.8	16.8	19.2	22.8	25.5	27.6	28.8
			lps	0	3.83	4.67	5.33	6.30	7.08	7.67	8.00
			lpm	0	230	280	320	380	425	460	480
* 2.2	3.0	2	Head in Meters	36	30	28	26	24	22	20	18
* 3.7	5.0	3		53	45	42	40	36	32	29	27
* 4.5	6.0	4		71	60	56	53	48	43	39	36
* 5.5	7.5	5		89	75	70	66	60	54	49	45
* 7.5	10.0	7		125	105	98	92	84	76	69	63
9.3	12.5	8		142	120	112	106	96	86	78	72
* 11.0	15.0	10		178	150	140	132	120	108	98	90
* 13.0	17.5	12		214	180	168	158	144	130	118	108
* 15.0	20.0	14		249	210	196	185	168	151	137	126
18.5	25.0	16		285	240	224	211	192	173	157	144
20.5	27.5	18		320	270	252	238	216	194	176	162
22.0	30.0	20		356	300	280	264	240	216	196	180



6" SUBMERSIBLE PUMP SET
60 feet
per stage

Radial Flow
High Head

6SS200

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	15.6	19.8	25.5	29.4	33.0	36.6	40.8
			lps	0	4.33	5.50	7.08	8.17	9.17	10.17	11.33
			lpm	0	260	330	425	490	550	610	680
3.0	4.0	2	Head in Meters	37	31	29	26	24	22	19	14
* 4.5	6.0	3		56	47	44	40	36	32	29	21
* 5.5	7.5	4		74	62	58	53	48	43	38	28
* 7.5	10.0	5		93	78	73	66	60	54	48	35
9.3	12.5	6		111	93	88	79	72	65	57	42
11.0	15.0	8		148	124	117	106	96	86	76	56
13.0	17.5	9		167	140	131	119	108	97	86	63
15.0	20.0	10		185	155	146	132	120	108	95	70
18.5	25.0	12		222	186	175	158	144	130	114	84
20.5	27.5	14		259	217	204	185	168	151	133	98
22.0	30.0	15		278	233	219	198	180	162	143	105

6SS250

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	17.4	22.2	31.8	36.6	43.2	47.4	49.8
			lps	0	4.83	6.17	8.83	10.17	12.00	13.17	13.83
			lpm	0	290	370	530	610	720	790	830
3.7	5.0	2	Head in Meters	37	32	31	27	24	20	17	15
5.5	7.5	3		56	49	47	41	36	29	25	23
7.5	10.0	4		74	65	62	54	48	39	34	30
9.3	12.5	5		93	81	78	68	60	49	42	38
11.0	15.0	6		111	97	93	81	72	59	50	45
13.0	17.5	7		130	113	109	95	84	69	59	53
15.0	20.0	8		148	130	124	108	96	78	67	60
16.7	22.5	9		167	146	140	122	108	88	76	68
18.5	25.0	10		185	162	155	135	120	98	84	75
20.5	27.5	11		204	178	171	149	132	108	92	83
22.0	30.0	12		222	194	186	162	144	118	101	90



6" SUBMERSIBLE PUMP SET

Mixed Flow

Technical Specifications

SERIES		6" MAXI BLUE 6" COSTA	6" MAXI DEEP 6" COSTA DEEP
Model		6MS / 6CS	6MDS / 6CDS
Power Range	kW	2.2 to 22 kW	2.2 to 22 kW
	HP	3.0 to 30 HP	3.0 to 30 HP
Nominal Outlet size	Inch	2.5" & 3"	3"
	mm	65 & 80	80
Speed	rpm	2880	2880
Discharge range	m³/h	9.6 to 90	6.6 to 70
	lpm	160 to 1500	110 to 1166
	lps	2.67 to 25	1.83 to 19.44
Head range	m	14 to 230	15 to 276
	ft	46 to 754	49 to 905
Max. Outer Diameter	mm	147	148
Method of starting	1Ph	CSCR	CSCR
	3Ph	DOL / SD	DOL / SD
Version	1Ph	180 - 230V : 2.2 to 7.5 kW	180 - 230V : 2.2 to 7.5 kW
	3Ph	380 - 415V : 2.2 to 22 kW	380 - 415V : 2.2 to 22 kW
Degree of Protection		IP 58	IP 58
Duty		S1 continuous	S1 continuous
Direction of Rotation		Anti clockwise	Anti clockwise
Maximum starts per hour		12 nos.	12 nos.
Minimum cooling flow		0.15 m/s	0.15 m/s



Note: Low voltage motors 160-230V (1Ph) & 350-420V (3Ph) can also be supplied on request.

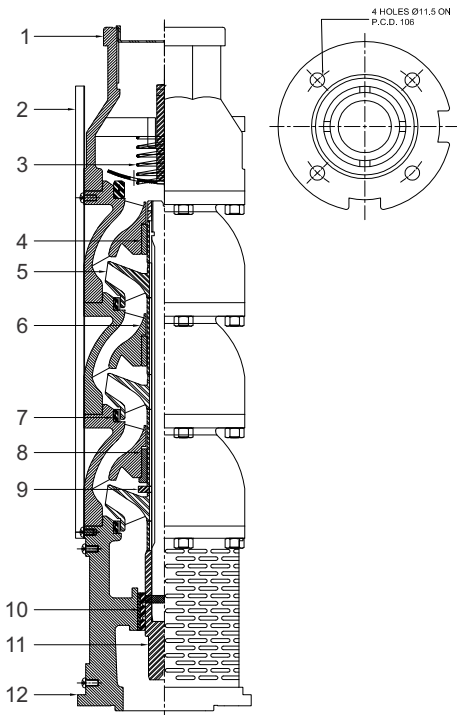


6" SUBMERSIBLE PUMP SET

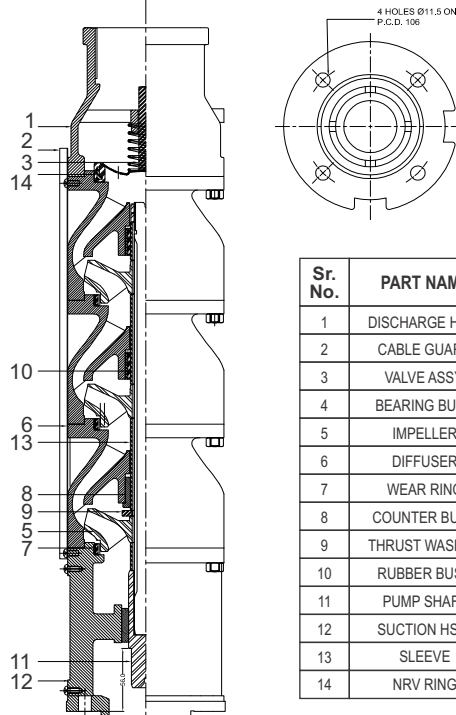
Mixed Flow

Materials of Construction & Cross Sectional View - 6MS / 6CS & 6MDS / 6CDS

**6"MAXI-BLUE & COSTA
MIXED FLOW**

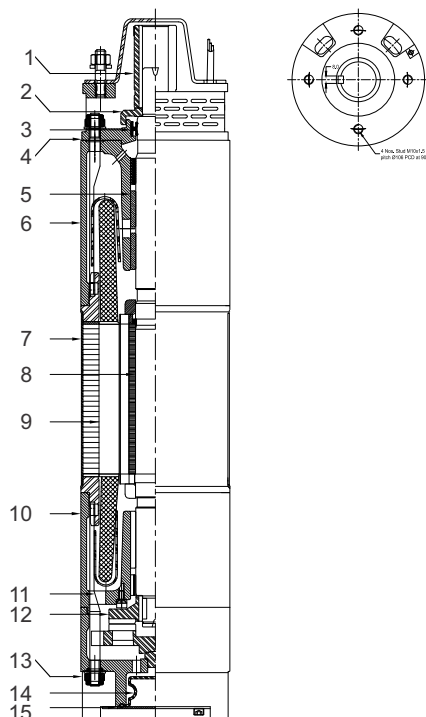


**6"MAXI-DEEP & COSTA DEEP
MIXED FLOW (HIGH HEAD)**



Sr. No.	PART NAME	MATERIAL - 6MS	MATERIAL - 6CS
1	DISCHARGE HSG.	CAST IRON FG-200,IS-210	CASTED SS 410
2	CABLE GUARD	ISS 410; IS:6911	ISS 410; IS:6911
3	VALVE ASSY.	ISS 202; IS:6911	SS 410
4	BEARING BUSH	NITRILE RUBBER+CS	NITRILE RUBBER+CS
5	IMPELLER	ISS 410; IS:3444	ISS 410; IS:3444
6	DIFFUSER	CAST IRON FG-200,IS-210	CASTED SS 410
7	WEAR RING	NITRILE RUBBER+SS	NITRILE RUBBER+SS
8	COUNTER BUSH	LTB-4	LTB-4
9	THRUST WASHER	ISS 410	ISS 410
10	RUBBER BUSH	NITRILE RUBBER+CS	NITRILE RUBBER+SS
11	PUMP SHAFT	ISS 420/431; IS:6603	ISS 420/431; IS:6603
12	SUCTION HSG.	CAST IRON FG-200,IS-210	CASTED SS 410
13	SLEEVE	ISS 410; IS:6603	ISS 410; IS:6603
14	NRV RING	NITRILE RUBBER+SS	NITRILE RUBBER+SS

6" MOTOR



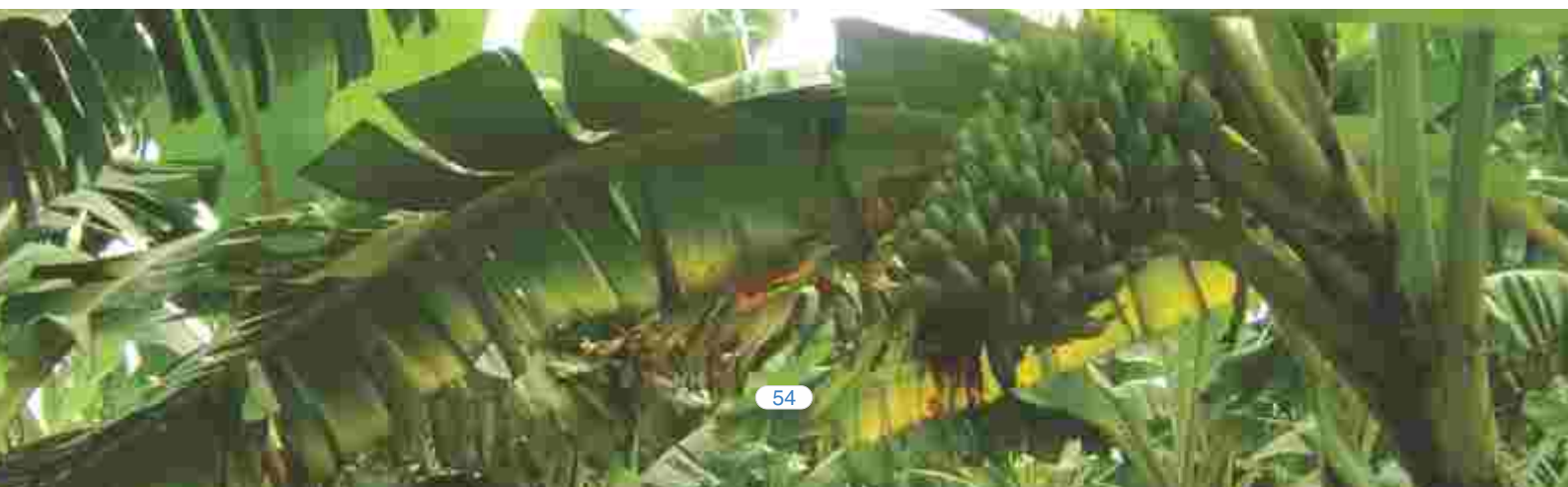
Sr. No.	PART NAME	MATERIAL
1	COUPLE	ISS 410; IS:3444
2	SAND GUARD	ISS 410; IS:3444
3	OIL SEAL	NITRILE RUBBER+SS
4	ADAPTOR	CI,FG-260,IS-210
5	BEARING BUSH	LTB-4
6	UPPER HOUSING	CI,FG-260,IS-210
7	STATOR PIPE	ISS 202; IS:6911
8	ROTOR SHAFT	ISS 420/431; IS:6603
9	STAMPING	CRNO-M47
10	LOWER HOUSING	CI,FG-260,IS-210
11	T-BOLT	CARBON STEEL; EN-8
12	THRUST BEARING	SS AISI-410, CARBON
13	MOTOR BASE	CI,FG-260,IS-210
14	DIAPHRAGM	NITRILE RUBBER
15	MOTOR BASE PLATE	SS AISI-410

6" SUBMERSIBLE PUMP SET

Mixed Flow

6MS10

Motor Power		STAGE	Outlet size 65mm (2.5")							50Hz	
			Discharge								
kW	HP		m³/h	0	9.6	14.7	22.2	25.8	28.5	30.6	33.0
			lps	0	2.67	4.08	6.17	7.17	7.92	8.50	9.17
			lpm	0	160	245	370	430	475	510	550
* 2.2	3	3	Head in Meters	30	28	26	25	23	22	21	20
3	4	4		40	37	35	33	31	29	28	27
* 3.7	5	5		50	46	44	41	39	37	36	34
* 4.5	6	6		60	55	53	49	47	44	43	40
* 5.5	7.5	7		70	64	62	57	55	51	50	47
* 5.5	7.5	8		80	74	70	66	62	58	57	54
7.5	10	9		90	83	79	74	70	66	64	60
* 7.5	10	10		100	92	88	82	78	73	71	67
7.5	10	11		110	101	97	90	86	80	78	74
* 9.3	12.5	12		120	110	106	98	94	88	85	80
* 9.3	12.5	13		130	120	114	107	101	95	92	87
* 11	15	14		140	129	123	115	109	102	99	94
11	15	15		150	138	132	123	117	110	107	101
11	15	16		160	147	141	131	125	117	114	107
13	17.5	18		180	166	158	148	140	131	128	121
15	20	20		200	184	176	164	156	146	142	134
18.5	25	25		250	230	220	205	195	183	178	168



6" SUBMERSIBLE PUMP SET

Mixed Flow

6MS12

Motor Power		STAGE	Outlet size 65mm (2.5")						50Hz		
			Discharge								
kW	HP		m³/h	0	19.8	26.4	28.8	31.2	34.8	37.2	40.8
			lps	0	5.5	7.33	8.00	8.67	9.67	10.33	11.33
			lpm	0	330	440	480	520	580	620	680
3.0	4.0	3	Head in Meters	31	28	26	25	23	22	21	19
* 3.7	5.0	4		41	37	34	33	31	29	28	25
* 4.5	6.0	5		51	46	43	41	39	37	35	32
* 5.5	7.5	6		61	55	52	49	47	44	42	38
* 7.5	10.0	8		82	74	69	66	62	58	56	50
* 9.3	12.5	10		102	92	86	82	78	73	70	63
* 11.0	15.0	12		122	110	103	98	94	88	84	76
* 13.0	17.5	14		143	129	120	115	109	102	98	88
* 15.0	20.0	16		163	147	138	131	125	117	112	101
16.7	22.5	18		184	166	155	148	140	131	126	113
18.5	25.0	20		204	184	172	164	156	146	140	126

6MS15

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0.0	24.6	31.8	36.0	38.4	40.2	42.6	45.0
			lps	0.0	6.80	8.80	10.00	10.70	11.20	11.80	12.50
			lpm	0	410	530	600	640	670	710	750
* 3.7	5.0	3	Head in Meters	33	29	27	25	23	22	20	19
* 4.5	6.0	4		44	38	36	33	31	30	27	25
* 5.5	7.5	5		55	48	45	41	39	37	34	32
* 7.5	10.0	7		77	67	62	57	55	52	48	44
* 9.3	12.5	8		88	76	71	66	62	59	54	50
* 11.0	15.0	10		110	95	89	82	78	74	68	63
* 13.0	17.5	12		132	114	107	98	94	89	82	76
* 15.0	20.0	14		154	133	125	115	109	104	95	88
16.7	22.5	15		165	143	134	123	117	111	102	95
18.5	25.0	16		176	152	142	131	125	118	109	101
22.0	30.0	20		220	190	178	164	156	148	136	126



Note: Optional outlet size 3" can also be supplied for 6MS10 & 6MS12 models on request.

6" SUBMERSIBLE PUMP SET

Mixed Flow

6MS18

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0.0	22.8	33.6	42.0	45.0	48.6	51.9	55.2
			lps	0.0	6.30	9.30	11.70	12.50	13.50	14.40	15.30
			lpm	0	380	560	700	750	810	865	920
* 3.7	5.0	3	Head in Meters	34	31	28	25	23	21	19	17
* 5.5	7.5	4		45	42	38	34	31	28	25	23
* 7.5	10.0	6		67	62	56	50	47	42	38	34
9.3	12.5	7		78	73	66	59	55	49	44	40
11.0	15.0	8		90	83	75	67	62	56	51	45
11.0	15.0	9		101	94	85	76	70	63	57	51
13.0	17.5	10		112	104	94	84	78	70	63	57
15.0	20.0	11		123	114	103	92	86	77	69	63
* 15.0	20.0	12		134	125	113	101	94	84	76	68
18.5	25.0	14		157	146	132	118	109	98	88	80
22.0	30.0	16		179	166	150	134	125	112	101	91

6MS20

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	17.4	27.6	37.2	50.4	54.3	56.4	60.0
			lps	0	4.83	7.67	10.33	14.0	15.10	15.67	16.67
			lpm	0	290	460	620	840	905	940	1000
4.5	6.0	3	Head in Meters	35	32	31	28	23	21	20	17
5.5	7.5	4		46	43	41	37	31	28	27	22
* 7.5	10.0	5		58	54	51	46	39	36	34	28
* 9.3	12.5	6		69	65	61	55	47	43	40	33
11.0	15.0	7		81	76	71	64	55	50	47	39
* 11.0	15.0	8		92	86	82	74	62	57	54	44
13.0	17.5	9		104	97	92	83	70	64	60	50
* 15.0	20.0	10		115	108	102	92	78	71	67	55
16.7	22.5	11		127	119	112	101	86	78	74	61
18.5	25.0	12		138	130	122	110	94	85	80	66
22.0	30.0	15		173	162	153	138	117	107	101	83



6" SUBMERSIBLE PUMP SET

Mixed Flow

6MS25

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	40.8	49.2	54.0	63.0	67.2	72.0	76.8
			lps	0	11.33	13.67	15.00	17.50	18.67	20.00	21.30
			lpm	0	680	820	900	1050	1120	1200	1280
3.7	5.0	2	Head in Meters	21	19	18	17	15	14	13	11
5.5	7.5	3		32	28	26	25	23	22	19	17
7.5	10.0	4		42	37	35	34	30	29	26	22
9.3	12.5	5		53	46	44	42	38	36	32	28
11.0	15.0	6		63	55	53	50	46	43	38	33
13.0	17.5	7		74	64	62	59	53	50	45	39
15.0	20.0	8		84	74	70	67	61	58	51	44
16.7	22.5	9		95	83	79	76	68	65	58	50
18.5	25.0	10		105	92	88	84	76	72	64	55
22.0	30.0	12		126	110	106	101	91	86	77	66

6MS30

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m3/h	0	42.0	51.0	60.0	75.6	79.8	84.0	90.0
			lps	0	11.67	14.20	16.67	21.00	22.17	23.33	25.00
			lpm	0	700	850	1000	1260	1330	1400	1500
* 4.5	6.0	2	Head in Meters	22	19	18	17	15	14	14	12
7.5	10.0	3		32	29	28	26	23	22	20	17
* 9.3	12.5	4		43	38	37	34	30	29	27	23
* 11.0	15.0	5		54	48	46	43	38	36	34	29
* 13.0	17.5	6		65	58	55	52	46	43	41	35
* 15.0	20.0	7		76	67	64	60	53	50	48	41
18.5	25.0	8		86	77	74	69	61	58	54	46
22.0	30.0	10		108	96	92	86	76	72	68	58



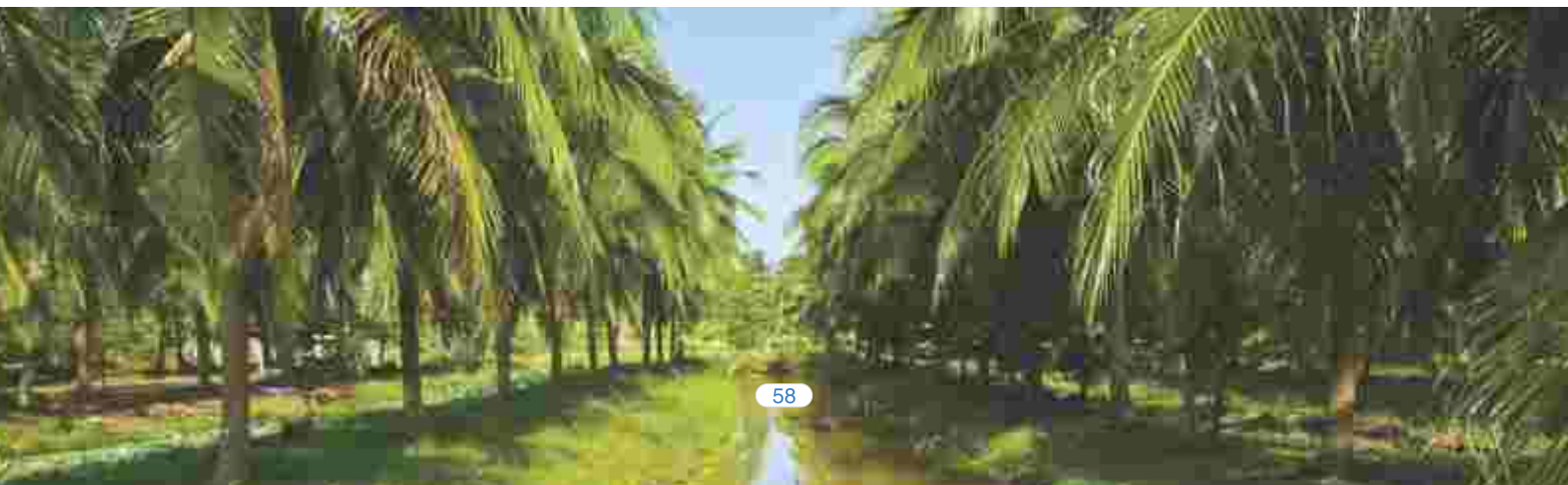
6" SUBMERSIBLE PUMP SET

Mixed Flow
High Head

6MDS10

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	6.6	10.2	14.4	18.6	22.2	27.6	32.4
			lps	0	1.83	2.83	4.00	5.17	6.17	7.67	9.00
			lpm	0	110	170	240	310	370	460	540
* 2.2	3.0	3	Head in Meters	44	41	38	35	32	29	23	18
3.0	4.0	4		58	54	51	47	42	38	31	24
* 3.7	5.0	5		73	68	64	59	53	48	39	30
* 4.5	6.0	6		87	81	77	70	63	57	47	36
* 5.5	7.5	7		102	95	90	82	74	67	55	42
* 5.5	7.5	8		116	108	102	94	84	76	62	48
* 7.5	10.0	9		131	122	115	105	95	86	70	54
* 7.5	10.0	10		145	135	128	117	105	95	78	60
* 7.5	10.0	11		160	149	141	129	116	105	86	66
* 9.3	12.5	12		174	162	154	140	126	114	94	72
* 9.3	12.5	13		189	176	166	152	137	124	101	78
11.0	15.0	14		203	189	179	164	147	133	109	84
* 11.0	15.0	15		218	203	192	176	158	143	117	90
* 11.0	15.0	16		232	216	205	187	168	152	125	96
13.0	17.5	18		261	243	230	211	189	171	140	108
* 15.0	20.0	20		290	270	256	234	210	190	156	120
* 18.5	25.0	25		363	338	320	293	263	238	195	150

Note: Optional outlet size 4" can also be supplied on request.



6" SUBMERSIBLE PUMP SET

Mixed Flow
High Head

6MDS12

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	8.4	13.8	21.0	24.0	28.8	32.4	36.6
			lps	0	2.30	3.83	5.83	6.67	8.00	9.00	10.17
			lpm	0	140	230	350	400	480	540	610
* 3.0	4.0	3	Head in Meters	44	41	39	34	32	26	23	17
* 3.7	5.0	4		58	55	52	46	42	35	30	22
* 4.5	6.0	5		73	69	65	57	53	44	38	28
* 5.5	7.5	6		87	83	78	68	63	53	45	33
* 7.5	10.0	8		116	110	104	91	84	70	60	44
9.3	12.5	10		145	138	130	114	105	88	75	55
* 11.0	15.0	12		174	166	156	137	126	106	90	66
* 13.0	17.5	14		203	193	182	160	147	123	105	77
* 15.0	20.0	16		232	221	208	182	168	141	120	88
* 16.7	22.5	18		261	248	234	205	189	158	135	99
* 18.5	25.0	20		290	276	260	228	210	176	150	110

6MDS15

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m3/h	0.0	15.0	18.0	21.0	25.8	30.6	37.2	42.0
			lps	0.0	4.17	5.00	5.83	7.17	8.50	10.33	11.67
			lpm	0	250	300	350	430	510	620	700
* 3.7	5.0	3	Head in Meters	47	40	38	37	33	29	20	12
* 4.5	6.0	4		62	53	51	49	44	38	26	16
* 5.5	7.5	5		78	66	64	61	55	48	33	20
* 7.5	10.0	7		109	93	90	85	77	67	46	28
* 9.3	12.5	8		124	106	102	98	88	76	52	32
* 11.0	15.0	10		155	133	128	122	110	95	65	40
* 13.0	17.5	12		186	159	154	146	132	114	78	48
* 15.0	20.0	14		217	186	179	171	154	133	91	56
* 16.7	22.5	15		233	199	192	183	165	143	98	60
* 18.5	25.0	16		248	212	205	195	176	152	104	64
* 18.5	25.0	17		264	225	218	207	187	162	111	68
22.0	30.0	20		310	265	256	244	220	190	130	80



6" SUBMERSIBLE PUMP SET

Mixed Flow
High Head

6MDS18

Motor Power		STAGE	Outlet size 75mm (3")							50Hz	
			Discharge								
kW	HP		m³/h	0.0	15.0	20.4	27.0	33.0	42.0	51.6	58.8
			lps	0.0	4.17	5.67	7.50	9.17	11.67	14.33	16.33
			lpm	0	250	340	450	550	700	860	980
* 3.7	5.0	3	Head in Meters	47	42	40	36	33	27	18	9
5.5	7.5	4		62	56	53	48	44	36	24	12
* 7.5	10.0	6		93	84	79	72	66	54	36	18
* 9.3	12.5	7		109	98	92	84	77	63	42	21
* 11.0	15.0	8		124	112	106	96	88	72	48	24
* 11.0	15.0	9		140	126	119	108	99	81	54	27
* 13.0	17.5	10		155	140	132	120	110	90	60	30
* 15.0	20.0	11		171	154	145	132	121	99	66	33
* 15.0	20.0	12		186	168	158	144	132	108	72	36
18.5	25.0	14		217	196	185	168	154	126	84	42
22.0	30.0	16		248	224	211	192	176	144	96	48
22.0	30.0	17		264	238	224	204	187	153	102	51

6MDS20

Motor Power		STAGE	Outlet size 75mm (3")							50Hz	
			Discharge								
kW	HP		m³/h	0	18.6	28.5	34.8	37.8	42.6	48.6	57.6
			lps	0	5.20	7.90	9.70	10.50	11.80	13.50	16.00
			lpm	0	310	475	580	630	710	810	960
3.0	4.0	2	Head in Meters	32	29	25	23	22	21	18	14
* 4.5	6.0	3		48	44	38	35	33	31	27	21
* 5.5	7.5	4		64	58	51	47	44	41	36	28
* 7.5	10.0	5		80	73	64	59	55	52	45	35
9.3	12.5	6		96	87	76	70	66	62	54	42
* 11.0	15.0	7		112	102	89	82	77	72	63	49
* 11.0	15.0	8		128	116	102	94	88	82	72	56
* 13.0	17.5	9		144	131	114	105	99	93	81	63
* 15.0	20.0	10		160	145	127	117	110	103	90	70
16.7	22.5	11		176	160	140	129	121	113	99	77
18.5	25.0	12		192	174	152	140	132	124	108	84
20.5	27.5	14		224	203	178	164	154	144	126	98
22.0	30.0	15		240	218	191	176	165	155	135	105



6" SUBMERSIBLE PUMP SET

Mixed Flow
High Head

6MDS25

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	30.0	36.0	42.0	46.8	51.0	57.0	66.0
			lps	0	8.33	10.00	11.67	13.00	14.17	15.83	18.33
			lpm	0	500	600	700	780	850	950	1100
* 3.7	5.0	2	Head in Meters	32	27	26	24	22	21	18	14
5.5	7.5	3		48	41	38	36	33	31	27	21
7.5	10.0	4		64	54	51	48	44	41	36	27
* 9.3	12.5	5		80	68	64	60	55	52	45	34
* 11.0	15.0	6		96	81	77	72	66	62	54	41
13.0	17.5	7		112	95	90	84	77	72	63	48
* 15.0	20.0	8		128	108	102	96	88	82	72	55
16.7	22.5	9		144	122	115	108	99	93	81	62
18.5	25.0	10		160	135	128	120	110	103	90	69
20.5	27.5	11		176	149	141	132	121	113	99	76
22.0	30.0	12		192	162	154	144	132	124	108	82

6MDS30

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	24.6	34.8	48.6	54.0	61.2	69.6	75.0
			lps	0	6.83	9.67	13.50	15.00	17.00	19.30	20.80
			lpm	0	410	580	810	900	1020	1160	1250
* 4.5	6.0	2	Head in Meters	36	31	28	24	22	19	15	12
* 7.5	10.0	3		54	47	42	36	33	29	23	18
* 9.3	12.5	4		72	62	56	48	44	38	30	24
* 11.0	15.0	5		90	78	70	60	55	48	38	30
* 13.0	17.5	6		108	93	84	72	66	58	45	36
* 15.0	20.0	7		126	109	98	84	77	67	53	42
18.5	25.0	8		144	124	112	96	88	77	60	48
20.5	27.5	9		162	140	126	108	99	86	68	54
22.0	30.0	10		180	155	140	120	110	96	75	60



Note: Optional outlet size 4" can also be supplied on request.

7" & 8" SUBMERSIBLE PUMP SET [with 6" Motor]

Mixed Flow

Technical Specifications

SERIES		7" COMBO	8" COMBO	8" COMBO DEEP
Model		7CMS	8CMS	8CDS
Power Range	kW	3.7 to 22 kW	3.7 to 22 kW	9.3 to 22 kW
	HP	5.0 to 30 HP	5.0 to 30 HP	12.5.0 to 30 HP
Nominal Outlet size	Inch	3" & 4"	3", 4" & 5"	5"
	mm	80 & 100	80, 100 & 125	125
Speed	rpm	2880	2880	2880
Discharge range	m ³ /h	24.6 to 152	24 to 252	48 to 195
	lpm	410 to 2533	400 to 4200	800 to 3250
	lps	6.83 to 42.22	6.67 to 70	13.33 to 54.17
Head range	m	5 to 142	9 to 124	9 to 53
	ft	16 to 465	30 to 406	30 to 170
Max. Outer Diameter	mm	172	S : 185 M : 195	195
Method of starting	1Ph	NA	NA	NA
	3Ph	DOL / SD	DOL / SD	DOL / SD
Version	1Ph	180 - 230V : 3.7 to 7.5 kW	180 - 230V : 3.7 to 7.5 kW	180 - 230V : 9.3 to 7.5 kW
	3Ph	380 - 415V : 3.7 to 22 kW	380 - 415V : 3.7 to 22 kW	380 - 415V : 9.3 to 22 kW
Degree of Protection		IP 58	IP 58	IP 58
Duty		S1 continuous	S1 continuous	S1 continuous
Direction of Rotation		Anti clockwise	Anti clockwise	Anti clockwise
Maximum starts per hour		12 nos.	4 nos.	4 nos.
Minimum cooling flow		0.15 m/s	0.15 m/s	0.15 m/s

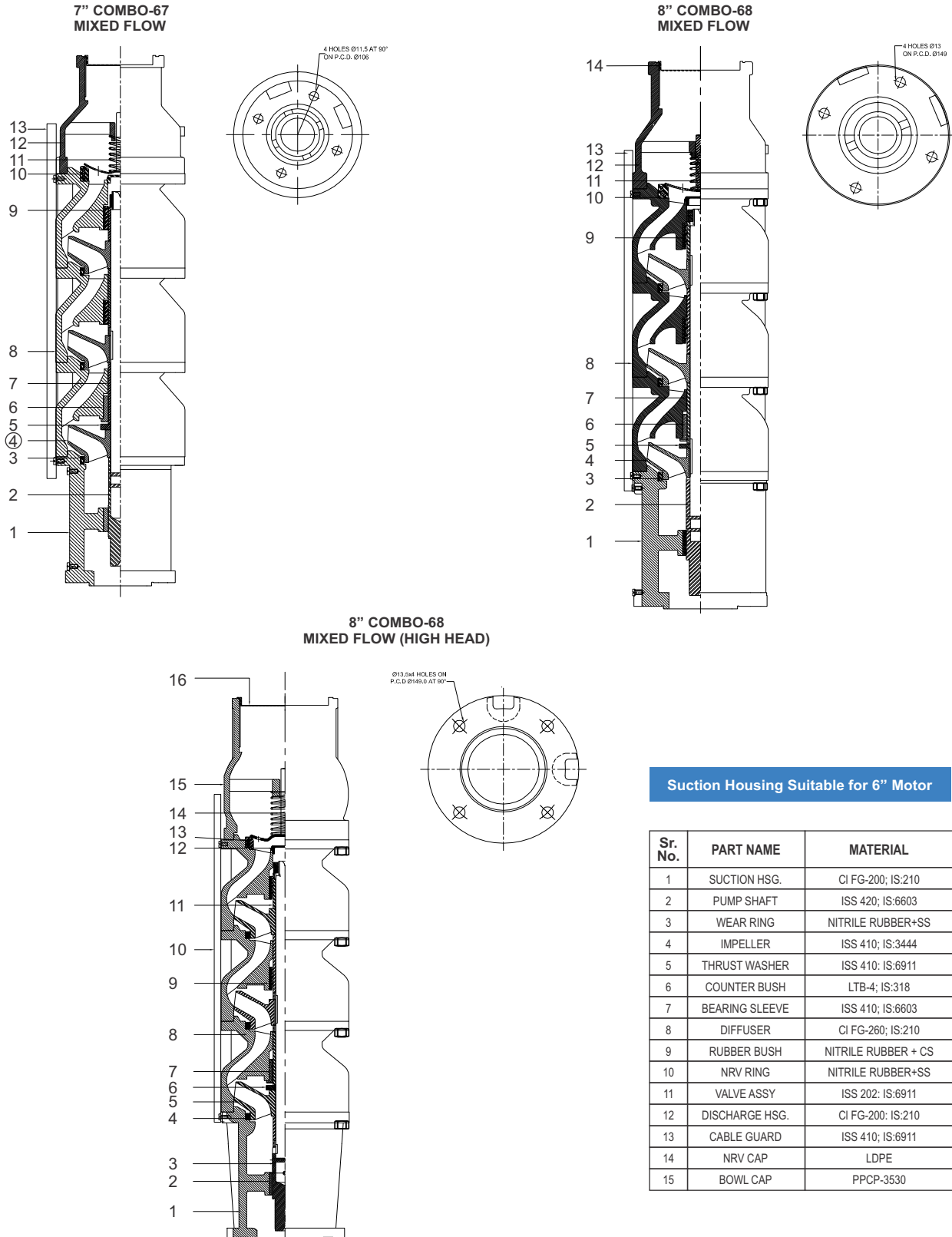


Note: Low voltage motors 350-420V (3Ph) can also be supplied on request.

7" & 8" SUBMERSIBLE PUMP SET [with 6" Motor]

Mixed Flow

Materials of Construction & Cross Sectional View - 7CMS, 8CMS & 8CDS



7" SUBMERSIBLE PUMP SET [with 6" Motor]
Mixed Flow
7CMS25

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	24.6	30.0	36.3	46.8	52.8	55.2	63.6
			lps	0	6.8	8.3	10.1	13.0	14.7	15.3	17.7
			lpm	0	410	500	605	780	880	920	1060
3.7	5.0	2	Head in Meters	34	28	27	25	22	20	19	16
5.5	7.5	3		51	43	41	38	33	30	29	24
* 7.5	10.0	4		68	57	54	50	44	40	38	32
9.3	12.5	5		85	71	68	63	55	50	48	40
11.0	15.0	6		102	85	81	75	66	60	57	48
13.0	17.5	7		119	99	95	88	77	70	67	56
15.0	20.0	8		136	114	108	100	88	80	76	64
18.5	25.0	10		170	142	135	125	110	100	95	80

7CMS30

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	34.8	45.9	51.0	57.6	61.8	66.0	72.0
			lps	0	9.67	12.75	14.20	16.00	17.20	18.30	20.00
			lpm	0	580	765	850	960	1030	1100	1200
4.5	6.0	2	Head in Meters	36	28	25	24	22	20	19	16
7.5	10.0	3		55	42	38	36	33	31	28	24
9.3	12.5	4		73	56	51	48	44	41	38	32
11.0	15.0	5		91	70	64	60	55	51	47	40
13.0	17.5	6		109	84	76	72	66	61	56	48
15.0	20.0	7		127	98	89	84	77	71	66	56
18.5	25.0	8		146	112	102	96	88	82	75	64



7" SUBMERSIBLE PUMP SET [with 6" Motor]
Mixed Flow
7CMS40

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	45.0	58.2	64.5	72.0	75.6	85.8	88.8
			lps	0	12.50	16.20	17.90	20.00	21.00	23.80	24.70
			lpm	0	750	970	1075	1200	1260	1430	1480
* 5.5	7.5	2	Head in Meters	40	29	26	24	22	21	18	17
9.3	12.5	3		60	44	39	36	33	32	27	26
11.0	15.0	4		80	58	52	48	44	42	36	34
* 15.0	20.0	5		100	73	65	60	55	53	45	43
18.5	25.0	6		120	87	78	72	66	63	54	51

7CMS50

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	49.8	61.2	70.2	75	79.8	86.4	92.4
			lps	0	13.80	17.00	19.50	20.80	22.20	24.00	25.70
			lpm	0	830	1020	1170	1250	1330	1440	1540
7.5	10.0	2	Head in Meters	44	34	31	28	26	24	22	19
11.0	15.0	3		66	51	47	42	39	36	32	29
15.0	20.0	4		88	68	62	56	52	48	43	38
18.5	25.0	5		110	85	78	70	65	60	54	48

7CMS60

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	64.8	75.0	79.2	90.0	101.4	105.6	111.6
			lps	0	18.00	20.80	22.00	25.00	28.20	29.30	31.00
			lpm	0	1080	1250	1320	1500	1690	1760	1860
9.3	12.5	2	Head in Meters	46	32	30	29	26	22	20	18
13.0	17.5	3		69	48	44	43	39	33	31	27
18.5	25.0	4		92	64	59	57	52	44	41	36



Note: Optional outlet size 3" can also be supplied on request.

7" SUBMERSIBLE PUMP SET [with 6" Motor]

Mixed Flow
High Discharge

7CMS40B

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	28.0	69.0	96.0	101.0	117.0	130.0	152.0
			lps	0	7.80	19.20	26.70	28.00	32.50	36.00	42.20
			lpm	0	467	1154	1530	1700	1950	2162	2510
3.0	4.0	1	Head in Meters	15	14	11	9	8	6	5	3
5.5	7.5	2		30	28	22	18	16	13	10	6
9.3	12.5	3		45	42	33	27	24	19	15	9
11.0	15.0	4		60	56	44	36	32	26	20	12
15.0	20.0	5		75	70	55	45	40	32	25	15
18.5	25.0	6		90	84	66	54	48	38	30	18
22.0	30.0	7		105	98	77	63	56	45	35	21
22.0	30.0	8		120	112	88	72	64	51	40	24

7CMS50B

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	39.6	75.6	97.2	114.0	126.0	136.8	151.2
			lps	0	11.00	21.00	27.00	31.70	35.00	38.00	42.00
			lpm	0	660	1260	1620	1900	2100	2280	2520
3.7	5.0	1	Head in Meters	16	14	12	10	8	7	5	3
7.5	10.0	2		32	28	24	20	16	13	10	6
11.0	15.0	3		48	42	36	30	24	20	15	9
15.0	20.0	4		64	56	48	40	32	26	20	12
18.5	25.0	5		80	70	60	50	40	33	25	15
22.0	30.0	6		96	84	72	60	48	39	30	18



Note: Optional outlet size 3" can also be supplied on request.

8" SUBMERSIBLE PUMP SET [with 6" Motor]
Mixed Flow
8CMS30

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	24.0	30.0	36.0	43.5	45.6	48.0	52.8
			lps	0	6.70	8.30	10.00	12.10	12.70	13.30	14.70
			lpm	0	400	500	600	725	760	800	880
* 4.5	6.0	2	Head in Meters	36	31	30	28	26	25	24	22
* 7.5	10.0	3		54	47	44	42	39	38	36	33
9.3	12.5	4		72	62	59	56	52	50	48	44
* 11.0	15.0	5		90	78	74	70	65	63	60	55
* 13.0	17.5	6		108	93	89	84	78	75	72	66
* 15.0	20.0	7		126	109	103	98	91	88	84	77
18.5	25.0	8		144	124	118	112	104	100	96	88

8CMS40

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	39.0	45.0	49.2	55.0	60.0	69.0	75.0
			lps	0	10.80	12.50	13.70	15.20	16.70	19.20	20.80
			lpm	0	650	750	820	910	1000	1150	1250
* 5.5	7.5	2	Head in Meters	42	33	31	30	28	26	23	20
* 9.3	12.5	3		63	49	47	44	42	39	34	30
11.0	15.0	4		84	65	62	59	56	52	45	40
* 15.0	20.0	5		105	81	78	74	70	65	56	50
18.5	25.0	6		126	98	93	89	84	78	68	60

Note: Optional outlet size 4" can also be supplied on request.



8" SUBMERSIBLE PUMP SET [with 6" Motor]

Mixed Flow

8CMS50

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	41.4	51.0	58.2	66.0	72.6	78.0	85.2
			lps	0	11.50	14.20	16.20	18.30	20.20	21.70	23.70
			lpm	0	690	850	970	1100	1210	1300	1420
3.7	5.0	1	Head in Meters	23	20	18	17	15	13	12	10
* 7.5	10.0	2		46	39	36	33	30	27	24	20
11.0	15.0	3		69	59	54	50	45	40	36	30
* 15.0	20.0	4		92	78	72	67	60	53	48	40
18.5	25.0	5		115	98	90	84	75	66	60	50

8CMS60

Motor Power		STAGE	Outlet size 100mm (4")					50Hz			
			Discharge								
kW	HP		m³/h	0	46.8	63.0	72.0	79.2	84.0	91.2	96.0
			lps	0	13.00	17.50	20.00	22.00	23.30	25.30	26.70
			lpm	0	780	1050	1200	1320	1400	1520	1600
* 9.3	12.5	2	Head in Meters	46	40	36	33	30	28	25	22
* 13.0	17.5	3		69	60	54	50	45	42	38	33
18.5	25.0	4		92	80	72	66	60	56	50	44

8CMS70

Motor Power		STAGE	Outlet size 100mm (4")					50Hz			
			Discharge								
kW	HP		m³/h	0	61.2	70.8	78.6	87.0	91.8	102.0	120.0
			lps	0	17.00	19.70	21.80	24.20	25.50	28.30	33.30
			lpm	0	1020	1180	1310	1450	1530	1700	2000
* 11.0	15.0	2	Head in Meters	50	41	39	37	34	32	29	23
* 15.0	20.0	3		75	62	59	56	51	48	44	35
22.0	27.5	4		100	82	78	74	68	64	58	46



8" SUBMERSIBLE PUMP SET [with 6" Motor]

Mixed Flow

8CMS80

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	63.0	76.8	85.2	93.0	97.8	118.2	129.0
			lps	0	17.50	21.30	23.70	25.80	27.20	32.80	35.80
			lpm	0	1050	1280	1420	1550	1630	1970	2150
5.5	7.5	1	Head in Meters	27	21	20	18	17	16	13	11
* 11.0	15.0	2		53	42	39	36	34	32	26	21
* 18.5	25.0	3		80	63	59	55	51	48	39	32

8CMS90

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	81.0	89.0	96.0	108.0	126.0	135.0	147.0
			lps	0	22.50	24.60	26.70	30.00	35.00	37.50	40.80
			lpm	0	1350	1475	1600	1800	2100	2250	2450
13.0	17.5	2	Head in Meters	54	42	40	38	34	28	24	19
20.5	27.5	3		81	62	60	57	51	42	36	29

8CMS100

Motor Power		STAGE	Outlet size 125mm (5")						50Hz		
			Discharge								
kW	HP		m³/h	0	57.0	84.0	108.0	132.0	156.0	174.0	204.0
			lps	0	15.80	23.30	30.00	36.70	43.30	48.30	56.70
			lpm	0	950	1400	1800	2200	2600	2900	3400
7.5	10.0	1	Head in Meters	26	22	20	18	16	14	12	9
15.0	20.0	2		52	44	40	36	32	28	24	18
22.0	30.0	3		78	66	60	54	48	42	36	27



8" SUBMERSIBLE PUMP SET [with 6" Motor]
Mixed Flow
8CMS125

Motor Power		STAGE	Outlet size 125mm (5")						50Hz		
			Discharge								
kW	HP		m³/h	0	75.0	108.0	132.0	156.0	187.2	208.8	228.0
			lps	0	20.80	30.00	36.70	43.30	52.00	58.00	63.30
			lpm	0	1250	1800	2200	2600	3120	3480	3800
9.3	12.5	1	Head in Meters	27	23	21	19	16	12	8	4
18.5	25.0	2		54	46	41	37	32	24	17	8

8CMS150

Motor Power		STAGE	Outlet size 125mm (5")						50Hz		
			Discharge								
kW	HP		m³/h	0	87.0	114.0	144.0	180.0	192.0	208.8	216.0
			lps	0	24.20	31.70	40.00	50.00	53.30	58.00	60.00
			lpm	0	1450	1900	2400	3000	3200	3480	3600
11.0	15.0	1	Head in Meters	28	24	22	20	16	15	13	11
22.0	30.0	2		56	48	44	40	32	30	25	22

8CMS175

Motor Power		STAGE	Outlet size 125mm (5")						50Hz		
			Discharge								
kW	HP		m3/h	0	75.0	108.0	168.0	198.0	216.0	234.0	252.0
			lps	0	20.80	30.00	46.70	55.00	60.00	65.00	70.00
			lpm	0	1250	1800	2800	3300	3600	3900	4200
13.0	17.5	1	Head in Meters	31	27	24	20	17	15	13	9



Note: Optional outlet size 4" can also be supplied on request.

8" SUBMERSIBLE PUMP SET [with 6" Motor]

Mixed Flow
High Head

8CDS125

Motor Power		STAGE	Outlet size 125mm (5")						50Hz		
			Discharge								
kW	HP		m3/h	0	47.4	72.0	91.8	117.0	151.2	180.0	194.4
			lps	0	13.20	20.00	25.50	32.50	42.00	50.00	54.00
			lpm	0	790	1200	1530	1950	2520	3000	3240
9.3	12.5	1	Head in Meters	29	26	25	23	21	16	9	4
18.5	25.0	2		57	53	50	47	42	32	19	8

8CDS150

Motor Power		STAGE	Outlet size 125mm (5")						50Hz		
			Discharge								
kW	HP		m3/h	0	88.2	108.0	118.8	135.0	142.8	147.0	165.0
			lps	0	24.50	30.00	33.00	37.50	39.70	40.80	45.80
			lpm	0	1470	1800	1980	2250	2380	2450	2750
11.0	15.0	1	Head in Meters	32	26	24	23	21	20	19	15
22.0	30.0	2		64	52	48	46	42	40	38	30



8" SUBMERSIBLE PUMP SET

Radial & Mixed Flow

Technical Specifications

SERIES		8" RAMBO	8" MAXI BLUE
Model		8RS	8MS
Power Range	kW	7.5 to 63 kW	7.5 to 63 kW
	HP	10 to 85 HP	10 to 85 HP
Nominal Outlet size	Inch	3"	3" & 4"
	mm	80	80 & 100
Speed	rpm	2880	2880
Discharge range	m ³ /h	10 to 63	24 to 150
	lpm	167 to 1050	400 to 2500
	lps	2.78 to 17.5	6.67 to 41.67
Head range	m	28 to 428	14 to 300
	ft	91 to 1404	46 to 984
Max. Outer Diameter	mm	192	195
Method of starting	1Ph	NA	NA
	3Ph	DOL / SD	DOL / SD
Version	1Ph	NA	NA
	3Ph	380 - 415V : 2.2 to 22 kW	380 - 415V : 2.2 to 22 kW
Degree of Protection		IP 58	IP 58
Duty		S1 continuous	S1 continuous
Direction of Rotation		Anti clockwise	Anti clockwise
Maximum starts per hour		4 nos.	4 nos.
Minimum cooling flow		0.15 m/s	0.15 m/s



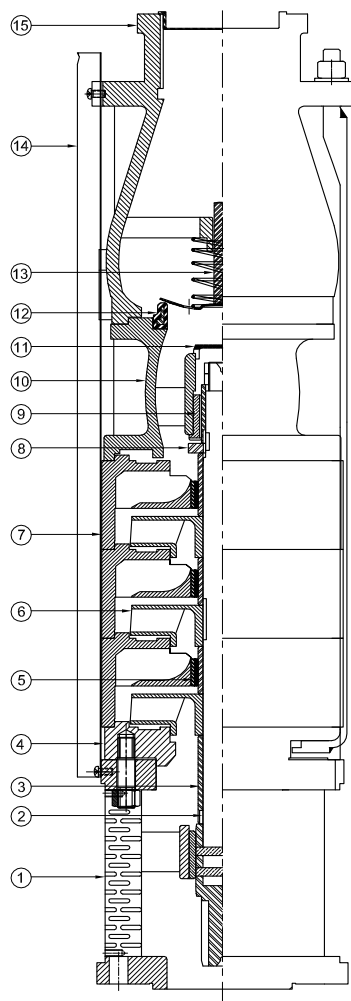
Note: Low voltage motors 350-420V (3Ph) can also be supplied on request.

8" SUBMERSIBLE PUMP SET

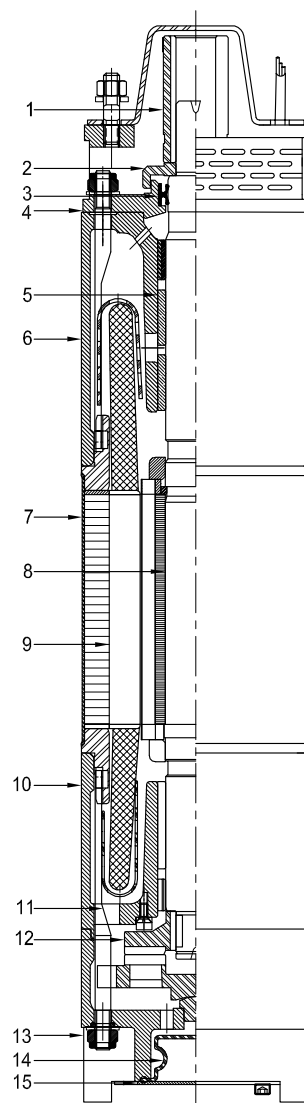
Radial Flow

Materials of Construction & Cross Sectional View - 8RS

8" RAMBO SERIES
RADIAL FLOW



8" MOTOR



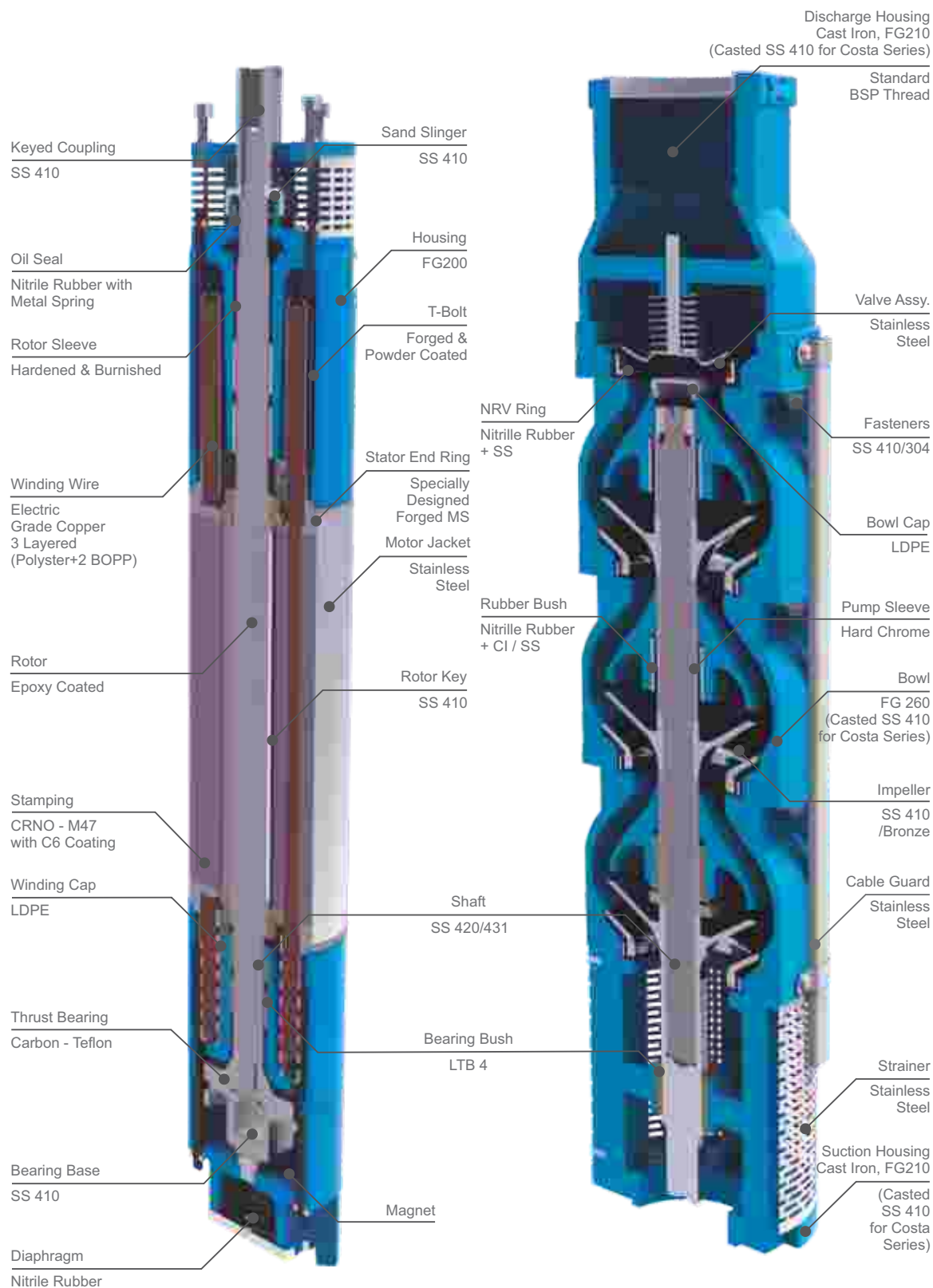
Sr. No.	PART NAME	MATERIAL
1	SUCTION HOUSING	CI, FG-200, IS:210
2	PUMP SHAFT	ISS420/431; IS 6603
3	SLEEVE	ISS 410;IS 6911
4	SUCTION PLATE	CI, FG-200, IS:210
5	BEARING BUSH	NITRILERUBBER + CS
6	IMPELLER	ISS 410;IS 3444
7	DIFFUSER	CI, FG-200, IS:210
8	THRUST WASHER	ISS 410
9	COUNTER BUSH	LTB-4, IS:318
10	DISCHARGE OUTLET	CI, FG-200, IS:210
11	BOWL CAP	PVC/HDPE
12	NRV RING	NITRLE RUBBER+SS
13	VALVE ASSY.	ISS 410
14	CABLE GUARD	ISS 410;IS 6911
15	DISCHARGE HOUSING	CI, FG-200, IS:210

Sr. No.	PART NAME	MATERIAL
1	COUPLE	ISS 410; IS:3444
2	SAND GUARD	ISS 410; IS:3444
3	OIL SEAL	NITRILE RUBBER+SS
4	ADAPTOR	CI,FG-260,IS-210
5	BEARING BUSH	LTB-4
6	UPPER HOUSING	CI,FG-260,IS-210
7	STATOR PIPE	ISS 202; IS:6911
8	ROTOR SHAFT	ISS 420/431; IS:6603
9	STAMPING	CRNO-M47
10	LOWER HOUSING	CI,FG-260,IS-210
11	T-BOLT	CARBON STEEL; EN-8
12	THRUST BEARING	ISS -410, CARBON
13	MOTOR BASE	CI,FG-260,IS-210
14	DIAPHRAGM	NITRILE RUBBER
15	MOTOR BASE PLATE	CI,FG-260,IS-210

8" SUBMERSIBLE PUMP SET

Mixed Flow

Materials of Construction & Cross Sectional View - 8MS



8" SUBMERSIBLE PUMP SET

Radial Flow

8RS15

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	10.0	11.0	13.0	17.0	18.0	19.0	21.0
			lps	0	2.77	3.30	3.60	4.80	5.08	5.32	5.78
			lpm	0	170	190	220	290	310	320	350
7.5	10.0	7	Head in Meters	140	111	109	106	98	93	90	74
9.3	12.5	8		160	127	125	121	112	106	102	85
11.0	15.0	10		200	159	156	151	140	133	128	106
16.7	22.5	15		300	239	234	227	210	200	192	159
18.5	25.0	16		320	254	250	242	224	213	205	170
18.5	25.0	17		340	270	265	257	238	226	218	180

8RS20

Motor Power		STAGE	Outlet size 75mm (3")							50Hz	
			Discharge								
kW	HP		m³/h	0	14.0	22.0	23.0	25.0	33.0	36.0	47.0
			lps	0	3.90	6.00	6.50	7.00	9.20	10.00	13.00
			lpm	0	235	360	390	420	550	600	780
7.5	10.0	5	Head in Meters	100	86	77	73	70	53	46	19
9.3	12.5	6		120	103	92	87	84	63	55	23
11.0	15.0	7		140	121	107	102	98	74	64	26
13.0	17.5	8		160	138	123	116	112	84	73	30
13.0	17.5	9		180	155	138	131	126	95	82	34
15.0	20.0	10		200	172	153	146	140	105	91	38
18.5	25.0	12		240	207	184	175	168	126	109	45
18.5	25.0	13		260	224	199	189	182	137	118	49
22.0	30.0	14		280	241	214	204	196	147	127	53
22.0	30.0	15		300	259	230	218	210	158	137	57
26.0	35.0	17		340	293	260	248	238	179	155	64



8" SUBMERSIBLE PUMP SET

8"(200mm)

Radial Flow

8RS25

Motor Power		STAGE	Outlet size 75mm (3")							50Hz	
			Discharge								
kW	HP		m³/h	0	16.2	20.4	24.0	28.2	31.2	33.6	36.0
			lps	0	4.50	5.70	6.70	7.80	8.70	9.30	10.00
			lpm	0	270	340	400	470	520	560	600
7.5	10.0	4	Head in Meters	85	78	75	71	64	51	40	30
9.3	12.5	5		107	98	94	89	80	64	50	37
11.0	15.0	6		128	118	113	107	96	77	60	44
13.0	17.5	7		149	137	132	125	112	90	70	52
15.0	20.0	8		170	157	150	142	128	102	80	59
16.7	22.5	9		192	176	169	160	144	115	90	67
18.5	25.0	10		213	196	188	178	160	128	100	74
20.5	27.5	11		234	216	207	196	176	141	110	81
22.0	30.0	12		256	235	226	214	192	154	120	89
26.0	35.0	14		298	274	263	249	224	179	140	104
30.0	40.0	16		341	314	301	285	256	205	160	118
33.5	45.0	18		383	353	338	320	288	230	180	133
37.0	50.0	20		426	392	376	356	320	256	200	148



8" SUBMERSIBLE PUMP SET

8"(200mm)

Radial Flow

8RS30											
Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	17.4	22.8	28.8	31.8	34.5	37.2	40.2
			lps	0	4.80	6.30	8.00	8.80	9.60	10.30	11.20
		lpm	0	290	380	480	530	575	620	670	
7.5	10.0	3	Head in Meters	66	61	59	55	51	46	40	33
9.3	12.5	4		88	82	79	73	68	61	53	44
11.0	15.0	5		110	102	99	92	85	76	66	55
13.0	17.5	6		132	122	119	110	102	91	79	66
15.0	20.0	7		154	143	139	128	119	106	92	77
18.5	25.0	8		176	163	158	146	136	122	106	88
20.5	27.5	9		198	184	178	165	153	137	119	99
22.0	30.0	10		220	204	198	183	170	152	132	110
22.0	30.0	11		242	224	218	201	187	167	145	121
26.0	35.0	12		264	245	238	220	204	182	158	132
30.0	40.0	13		286	265	257	238	221	198	172	143
30.0	40.0	14		308	286	277	256	238	213	185	154
33.5	45.0	15		330	306	297	275	255	228	198	165
33.5	45.0	16		352	326	317	293	272	243	211	176
37.0	50.0	16		352	326	317	293	272	243	211	176
37.0	50.0	17		374	347	337	311	289	258	224	187
41.0	55.0	18		396	367	356	329	306	274	238	198
45.0	60.0	19		418	388	376	348	323	289	251	209
45.0	60.0	20		440	408	396	366	340	304	264	220
45.0	60.0	21		462	428	416	384	357	319	277	231



8" SUBMERSIBLE PUMP SET

Radial Flow

8RS35

Motor Power		STAGE	Outlet size 75mm (3")							50Hz	
			Discharge								
kW	HP		m³/h	0	29.0	32.0	35.0	36.0	39.0	42.0	45.0
			lps	0	8.20	9.00	9.70	10.00	10.90	11.60	12.40
			lpm	0	490	540	580	600	655	695	745
7.5	10.0	3	Head in Meters	66	55	53	52	51	48	45	42
11.0	15.0	4		88	73	71	69	68	64	60	56
13.0	17.5	5		110	91	89	86	85	80	75	70
15.0	20.0	6		132	110	107	104	102	96	90	84
18.5	25.0	7		154	128	124	121	119	111	106	98
20.0	27.5	8		176	146	142	138	136	127	121	112
22.0	30.0	9		198	164	160	155	153	143	136	126
26.0	35.0	10		220	183	178	173	170	159	151	140
30.0	40.0	11		242	201	195	190	187	175	166	154
30.0	40.0	12		264	219	213	207	204	191	181	168
33.5	45.0	14		308	256	249	242	238	223	211	196
37.0	50.0	15		330	274	266	259	255	239	226	210
41.0	55.0	16		352	292	284	276	272	255	241	224
45.0	60.0	17		374	310	302	293	288	271	256	238
45.0	60.0	18		396	329	320	311	305	287	271	252

8RS40

Motor Power		STAGE	Outlet size 75mm (3")							50Hz	
			Discharge								
kW	HP		m³/h	0	22.8	30.6	36.0	42.0	45.0	50.4	52.8
			lps	0	6.30	8.50	10.00	11.70	12.50	14.00	14.70
			lpm	0	380	510	600	700	750	840	880
9.3	12.5	3	Head in Meters	68	62	58	55	51	48	44	40
11.0	15.0	4		90	82	77	73	68	64	58	53
15.0	20.0	5		113	103	97	91	85	81	73	67
18.5	25.0	6		135	123	116	109	102	97	87	80
22.0	30.0	7		158	144	135	127	119	113	102	93
22.0	30.0	8		180	164	154	146	136	129	116	106
26.0	35.0	9		203	185	174	164	153	145	131	120
30.0	40.0	10		225	205	193	182	170	161	145	133
30.0	40.0	11		248	226	212	200	187	177	160	146
33.5	45.0	11		248	226	212	200	187	177	160	146
33.5	45.0	12		270	246	232	218	204	193	174	160
37.0	50.0	12		270	246	232	218	204	193	174	160
37.0	50.0	13		293	267	251	237	221	209	189	173
41.0	55.0	14		315	287	270	255	238	225	203	186
45.0	60.0	15		338	308	290	273	255	242	218	200
45.0	60.0	16		360	328	309	291	272	258	232	213
55.0	75.0	18		405	369	347	328	306	290	261	239
55.0	75.0	19		428	390	367	346	323	306	276	253
55.0	75.0	20		450	410	386	364	340	322	290	266



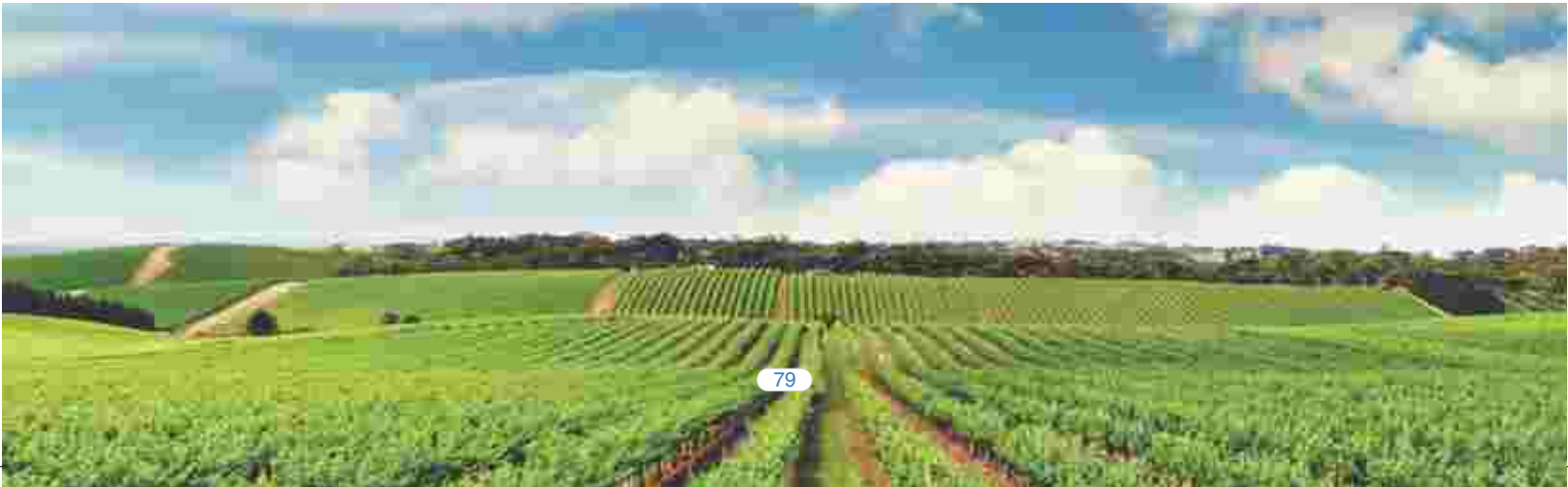
8” SUBMERSIBLE PUMP SET

8”(200mm)

Radial Flow

8RS50

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
m³/h	0		33.0	39.0	45.0	54.0	57.0	60.0	63.0		
kW	HP		lps	0	9.20	10.80	12.50	15.00	15.80	16.70	17.50
			lpm	0	550	650	750	900	950	1000	1050
7.5	10.0	2	Head in Meters	46	41	40	38	34	32	30	28
11.0	15.0	3		69	61	59	56	51	48	45	42
15.0	20.0	4		92	82	79	75	68	64	60	56
18.5	25.0	5		115	102	99	94	85	80	75	70
22.0	30.0	6		138	122	119	113	102	96	90	84
26.0	35.0	7		161	143	139	132	119	112	105	98
30.0	40.0	8		184	163	158	150	136	128	120	112
33.5	45.0	9		207	184	178	169	153	144	135	126
37.0	50.0	10		230	204	198	188	170	160	150	140
41.0	55.0	11		253	224	218	207	187	176	165	154
45.0	60.0	12		276	245	238	226	204	192	180	168
45.0	60.0	13		299	265	257	244	221	208	195	182
55.0	75.0	15		345	306	297	282	255	240	225	210
63.0	85.0	17		391	347	337	320	289	272	255	238



8" SUBMERSIBLE PUMP SET

8"(200mm)

Mixed Flow

8MS30

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	24.0	30.0	36.0	43.5	45.6	48.0	52.8
			lps	0	6.70	8.30	10.00	12.10	12.70	13.30	14.70
			lpm	0	400	500	600	725	760	800	880
* 7.5	10.0	3	Head in Meters	54	47	44	42	39	38	36	33
9.3	12.5	4		72	62	59	56	52	50	48	44
11.0	15.0	5		90	78	74	70	65	63	60	55
13.0	17.5	6		108	93	89	84	78	75	72	66
15.0	20.0	7		126	109	103	98	91	88	84	77
18.5	25.0	8		144	124	118	112	104	100	96	88
18.5	25.0	9		162	140	133	126	117	113	108	99
* 22.0	30.0	10		180	155	148	140	130	125	120	110
22.0	30.0	11		198	171	162	154	143	138	132	121
26.0	35.0	12		216	186	177	168	156	150	144	132
* 30.0	40.0	14		252	217	207	196	182	175	168	154
33.5	45.0	15		270	233	221	210	195	188	180	165

8MS40

Motor Power		STAGE	Outlet size 75mm (3")						50Hz		
			Discharge								
kW	HP		m³/h	0	39.0	45.0	49.2	55.0	60.0	69.0	75.0
			lps	0	10.80	12.50	13.70	15.20	16.70	19.20	20.80
			lpm	0	650	750	820	910	1000	1150	1250
9.3	12.5	3	Head in Meters	63	49	47	44	42	39	34	30
11.0	15.0	4		84	65	62	59	56	52	45	40
15.0	20.0	5		105	81	78	74	70	65	56	50
18.5	25.0	6		126	98	93	89	84	78	68	60
18.5	25.0	7		147	114	109	103	98	91	79	70
22.0	30.0	7		147	114	109	103	98	91	79	70
22.0	30.0	8		168	130	124	118	112	104	90	80
26.0	35.0	9		189	146	140	133	126	117	101	90
* 30.0	40.0	10		210	163	155	148	140	130	113	100
33.5	45.0	11		231	179	171	162	154	143	124	110
33.5	45.0	12		252	195	186	177	168	156	135	120
* 37.0	50.0	12		252	195	186	177	168	156	135	120
* 37.0	50.0	13		273	211	202	192	182	169	146	130
41.0	55.0	14		294	228	217	207	196	182	158	140
45.0	60.0	15		315	244	233	221	210	195	169	150

Note: Optional outlet size 4" can also be supplied on request.



8" SUBMERSIBLE PUMP SET

8"(200mm)

MAXI-BLUE

COSTA

SERIES

Mixed Flow

8MS50

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	41.4	51.0	58.2	66.0	72.6	78.0	85.2
			lps	0	11.50	14.20	16.20	18.30	20.20	21.70	23.70
			lpm	0	690	850	970	1100	1210	1300	1420
7.5	10.0	2	Head in Meters	46	39	36	33	30	27	24	20
11.0	15.0	3		69	59	54	50	45	40	36	30
15.0	20.0	4		92	78	72	67	60	53	48	40
* 18.5	25.0	5		115	98	90	84	75	66	60	50
22.0	30.0	6		138	117	108	100	90	80	72	60
26.0	35.0	7		161	137	126	117	105	93	84	70
* 30.0	40.0	8		184	156	144	134	120	106	96	80
33.5	45.0	9		207	176	162	150	135	119	108	90
37.0	50.0	10		230	195	180	167	150	133	120	100
37.0	50.0	11		253	215	198	184	165	146	132	110
41.0	55.0	11		253	215	198	184	165	146	132	110
45.0	60.0	12		276	234	216	200	180	159	144	120
45.0	60.0	13		299	254	234	217	195	172	156	130
55.0	75.0	15		345	293	270	251	225	199	180	150



Note: Optional outlet size 3" can also be supplied on request.



8" SUBMERSIBLE PUMP SET

8" (200mm)

Mixed Flow

8MS60

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	46.8	63.0	72.0	79.2	84.0	91.2	96.0
			lps	0	13.00	17.50	20.00	22.00	23.30	25.30	26.70
			lpm	0	780	1050	1200	1320	1400	1520	1600
9.3	12.5	2	Head in Meters	46	40	36	33	30	28	25	22
13.0	17.5	3		69	60	54	50	45	42	38	33
18.5	25.0	4		92	80	72	66	60	56	50	44
22.0	30.0	5		115	100	90	83	75	70	63	55
26.0	35.0	6		138	120	108	99	90	84	75	66
30.0	40.0	7		161	140	126	116	105	98	88	77
37.0	50.0	8		184	160	144	132	120	112	100	88
41.0	55.0	9		207	180	162	149	135	126	113	99
45.0	60.0	10		230	200	180	165	150	140	125	110
45.0	60.0	11		253	220	198	182	165	154	138	121
55.0	75.0	12		276	240	216	198	180	168	150	132
55.0	75.0	13		299	260	234	215	195	182	163	143
63.0	85.0	14		322	280	252	231	210	196	175	154
63.0	85.0	15		345	300	270	248	225	210	188	165

8MS70

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	61.2	70.8	78.6	87.0	91.8	102.0	120.0
			lps	0	17.00	19.70	21.80	24.20	25.50	28.30	33.30
			lpm	0	1020	1180	1310	1450	1530	1700	2000
11.0	15.0	2	Head in Meters	50	41	39	37	34	32	29	23
* 15.0	20.0	3		75	62	59	56	51	48	44	35
22.0	30.0	4		100	82	78	74	68	64	58	46
26.0	35.0	5		125	103	98	93	85	80	73	58
30.0	40.0	6		150	123	117	111	102	96	87	69
33.5	45.0	6		150	123	117	111	102	96	87	69
37.0	50.0	7		175	144	137	130	119	112	102	81
41.0	55.0	8		200	164	156	148	136	128	116	92
45.0	60.0	9		225	185	176	167	153	144	131	104
55.0	75.0	10		250	205	195	185	170	160	145	115
55.0	75.0	11		275	226	215	204	187	176	160	127
63.0	85.0	12		300	246	234	222	204	192	174	138
63.0	85.0	13		325	267	254	241	221	208	189	150



Note: Optional outlet size 3" for 8MS60 can also be supplied on request.

8" SUBMERSIBLE PUMP SET

8" (200mm)

Mixed Flow

8MS80

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	63.0	76.8	85.2	93.0	97.8	118.2	129.0
			lps	0	17.50	21.30	23.70	25.80	27.20	32.80	35.80
			lpm	0	1050	1280	1420	1550	1630	1970	2150
11.0	15.0	2	Head in Meters	53	42	39	36	34	32	26	21
18.5	25.0	3		80	63	59	55	51	48	39	32
26.0	35.0	4		106	84	78	73	68	64	52	42
* 30.0	40.0	5		133	105	98	91	85	80	65	53
* 37.0	50.0	6		159	126	117	109	102	96	78	63
41.0	55.0	7		186	147	137	127	119	112	91	74
45.0	60.0	8		212	168	156	146	136	128	104	84
55.0	75.0	9		239	189	176	164	153	144	117	95
55.0	75.0	10		265	210	195	182	170	160	130	105
63.0	85.0	11		292	231	215	200	187	176	143	116

8MS90

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	81.0	89.0	96.0	108.0	126.0	135.0	147.0
			lps	0	22.50	24.60	26.70	30.00	35.00	37.50	40.80
			lpm	0	1350	1475	1600	1800	2100	2250	2450
13.0	17.5	2	Head in Meters	54	42	40	38	34	28	24	19
20.0	27.5	3		81	62	60	57	51	42	36	29
26.0	35.0	4		108	83	80	76	68	56	48	38
* 33.5	45.0	5		135	104	100	95	85	70	60	48
41.0	55.0	6		162	125	120	114	102	84	72	57
45.0	60.0	7		189	146	140	133	119	98	84	67
55.0	75.0	8		216	166	160	152	136	112	96	76
63.0	85.0	9		243	187	180	171	153	126	108	86
63.0	85.0	10		270	208	200	190	170	140	120	95

8MS100

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
m³/h	0		91.2	97.8	106.8	114.0	124.8	138.0	150.0		
kW	HP		lps	0	25.30	27.20	29.70	31.70	34.70	38.30	41.70
			lpm	0	1520	1630	1780	1900	2080	2300	2500
7.5	10.0	1	Head in Meters	26	20	20	19	18	17	14	8
15.0	20.0	2		51	40	39	38	36	34	28	16
22.0	30.0	3		77	61	59	56	54	50	42	24
30.0	40.0	4		102	81	78	75	72	67	56	32
37.0	50.0	5		128	101	98	94	90	84	70	40
45.0	60.0	6		154	121	118	113	108	101	84	48
55.0	75.0	8		205	162	157	150	144	134	112	64
63.0	85.0	9		230	182	176	169	162	151	126	72

Note: Optional outlet size 5" can also be supplied on request.



9" SUBMERSIBLE PUMP SET

9" (225mm)

Mixed Flow

Technical Specifications

SERIES		9" MAXI BLUE
Model		9MS
Power Range	kW	45 to 93 kW
	HP	60 to 125 HP
Nominal Outlet size	Inch	4" & 5"
	mm	100 & 125
Speed	rpm	2880
Discharge range	m³/h	36 to 252
	lpm	600 to 4200
	lps	10 to 70
Head range	m	20 to 315
	ft	66 to 1033
Max. Outer Diameter	mm	222
Method of starting	1Ph	NA
	3Ph	DOL / SD
Version	1Ph	NA
	3Ph	380-415V
Degree of Protection	IP 58	
Duty	S1 continuous	
Direction of Rotation	Anti clockwise	
Maximum starts per hour	4 nos.	
Minimum cooling flow	0.15 m/s	



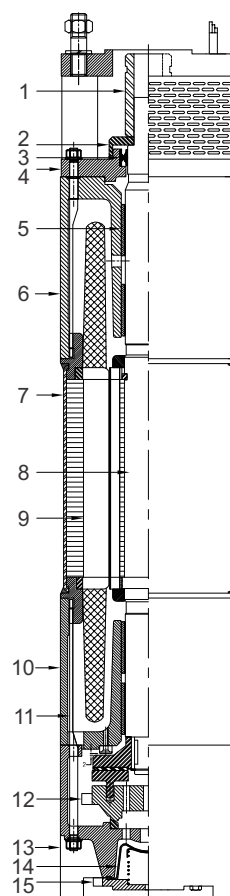
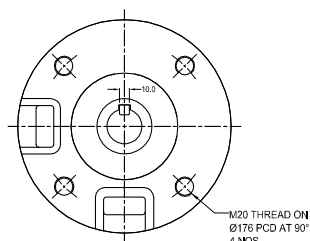
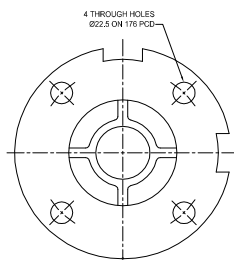
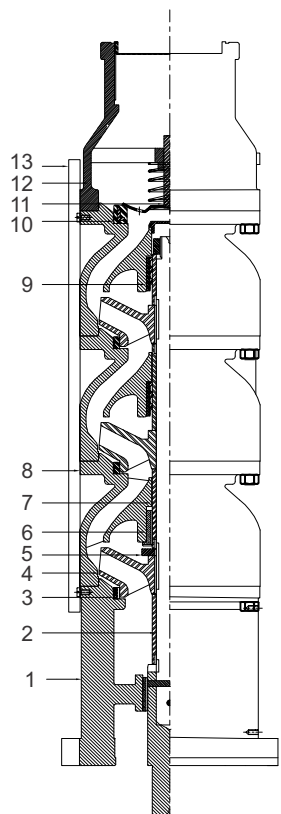
Note: Low voltage motors 350-420V (3Ph) can also be supplied on request.



9" SUBMERSIBLE PUMP SET

Mixed Flow

Materials of Construction & Cross Sectional View - 9MS



Sr. No.	PART NAME	MATERIAL
1	SUCTION HOUSING	CI FG-200: IS:210
2	PUMP SHAFT	ISS 410; IS:6911
3	WEAR RING	NITRILE RUBBER-SS
4	IMPELLER	ISS 410; IS:6911
5	THRUST WASHER	ISS 410; IS:6911
6	COUNTER BUSH	LTB-4; IS:318
7	BEARING SLEEVE	ISS 410; IS:6911
8	DIFFUSER	CI FG-260: IS:210
9	RUBBER BUSH	MTRLE RUBBER + CS
10	NRV RING	NITRILE RUBBER+SS
11	VALVE ASSY	ISS 410; IS: 6911
12	DISCHARGE HOUSING	CI FG-200: IS:210
13	CABLE GUARD	ISS 410; IS:6911

Sr. No.	PART NAME	MATERIAL
1	COUPLING	ISS 410; IS:6603
2	SAND GUARD	ISS 410; IS:6603
3	OIL SEAL	NITRILE RUBBER + SS
4	ADAPTOR	CI, FG 200, IS:210
5	BEARING BUSH	LTB-4; IS:318
6	UPPER HOUSING	CI, FG 200, IS:210
7	STATOR PIPE	ISS 202; IS:6911
8	ROTOR SHAFT	ISS 420/431; IS:6603
9	STAMPING	CRNO M-47
10	LOWER HOUSING	CI, FG 200, IS:210
11	T-BOLT	CARBON STEEL; EN-8
12	THRUST BEARING	ISS 410; CARBON
13	MOTOR BASE	CI, FG 200, IS:210
14	DIAPHRAGM	NITRILE RUBBER
15	MOTOR BASE PLATE	CI, FG 200, IS:210

9" SUBMERSIBLE PUMP SET

9" (225mm)

Mixed Flow

9MS40

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	36.0	48.0	54.0	60.0	75.0	81.0	87.0
			lps	0	10.00	13.30	15.00	16.70	20.80	22.50	24.20
			lpm	0	600	800	900	1000	1250	1350	1450
45.0	60.0	15	Head in Meters	323	263	240	225	210	180	165	150

9MS50

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	42.0	54.0	62.4	69.0	80.4	87.6	96.0
			lps	0	11.70	15.00	17.30	19.20	22.30	24.30	26.70
			lpm	0	700	900	1040	1150	1340	1460	1600
45.0	60.0	12	Head in Meters	264	216	204	192	180	162	150	132
55.0	75.0	15		330	270	255	240	225	203	188	165

9MS60

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	57.0	63.0	75.0	81.6	91.8	99.0	106.2
			lps	0	15.80	17.50	20.80	22.70	25.50	27.50	29.50
			lpm	0	950	1050	1250	1360	1530	1650	1770
45.0	60.0	10	Head in Meters	235	180	170	160	150	135	120	105
55.0	75.0	12		282	216	204	192	180	162	144	126
63.0	85.0	14		329	252	238	224	210	189	168	147
75.0	100.0	16		376	288	272	256	240	216	192	168

9MS70

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	61.2	70.8	78.6	87.0	91.8	102.0	120.0
			lps	0	17.00	19.70	21.80	24.20	25.50	28.30	33.30
			lpm	0	1020	1180	1310	1450	1530	1700	2000
45.0	60.0	9	Head in Meters	225	185	176	167	153	144	131	104
55.0	75.0	10		250	205	195	185	170	160	145	115
55.0	75.0	11		275	226	215	204	187	176	160	127
63.0	85.0	12		300	246	234	222	204	192	174	138
75.0	100.0	14		350	287	273	259	238	224	203	161

Note: Optional outlet size 5" can also be supplied on request.



9" SUBMERSIBLE PUMP SET

9" (225mm)

Mixed Flow

9MS80

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	63.0	76.8	85.2	93.0	97.8	118.2	129.0
			lps	0	17.50	21.30	23.70	25.80	27.20	32.80	35.80
			lpm	0	1050	1280	1420	1550	1630	1970	2150
45.0	60.0	8	Head in Meters	212	168	156	146	136	128	104	84
55.0	75.0	9		239	189	176	164	153	144	117	95
63.0	85.0	11		292	231	215	200	187	176	143	116
75.0	100.0	12		318	252	234	218	204	192	156	126
82.0	110.0	13		345	273	254	237	221	208	169	137
93.0	125.0	15		398	315	293	273	255	240	195	158

9MS90

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	81.0	89.0	96.0	108.0	126.0	135.0	147.0
			lps	0	22.50	24.60	26.70	30.00	35.00	37.50	40.80
			lpm	0	1350	1475	1600	1800	2100	2250	2450
45.0	60.0	7	Head in Meters	189	146	140	133	119	98	84	67
55.0	75.0	8		216	166	160	152	136	112	96	76
63.0	85.0	9		243	187	180	171	153	126	108	86
75.0	100.0	11		297	229	220	209	187	154	132	105
82.0	110.0	12		324	250	240	228	204	168	144	114
93.0	125.0	14		378	291	280	266	238	196	168	133

9MS100

Motor Power		STAGE	Outlet size 100mm (4")						50Hz		
			Discharge								
kW	HP		m³/h	0	91.2	97.8	106.8	114.0	124.8	138.0	150.0
			lps	0	25.30	27.20	29.70	31.70	34.70	38.30	41.70
			lpm	0	1520	1630	1780	1900	2080	2300	2500
45.0	60.0	6	Head in Meters	154	121	118	113	108	101	84	48
55.0	75.0	8		205	162	157	150	144	134	112	64
63.0	85.0	9		230	182	176	169	162	151	126	72
75.0	100.0	10		256	202	196	188	180	168	140	80
82.0	110.0	11		282	222	216	207	198	185	154	88
93.0	125.0	12		307	242	235	226	216	202	168	96



Note: Optional outlet size 5" can also be supplied on request.

9" SUBMERSIBLE PUMP SET

Mixed Flow

9MS125

Motor Power		STAGE	Outlet size 125mm (5")						50Hz		
			Discharge								
kW	HP		m³/h	0	75.0	108.0	132.0	156.0	187.2	208.8	228.0
			lps	0	20.80	30.00	36.70	43.30	52.00	58.00	63.30
			lpm	0	1250	1800	2200	2600	3120	3480	3800
45.0	60.0	5	Head in Meters	135	115	103	93	80	60	42	20
55.0	75.0	6		162	138	124	112	96	72	50	24
63.0	85.0	7		189	161	144	130	112	84	58	28
75.0	100.0	8		216	184	165	149	128	96	66	32
82.0	110.0	9		243	207	185	167	144	108	75	36
93.0	125.0	10		270	230	206	186	160	120	83	40

9MS150

Motor Power		STAGE	Outlet size 125mm (5")						50Hz		
			Discharge								
kW	HP		m³/h	0	87.0	114.0	144.0	180.0	192.0	208.8	216.0
			lps	0	24.20	31.70	40.00	50.00	53.30	58.00	60.00
			lpm	0	1450	1900	2400	3000	3200	3480	3600
45.0	60.0	4	Head in Meters	112	96	88	79	64	59	50	44
55.0	75.0	5		140	120	111	99	80	74	63	55
63.0	85.0	6		168	144	133	119	96	89	75	66
75.0	100.0	7		196	168	155	139	112	104	88	77
93.0	125.0	8		224	192	177	158	128	118	100	88

9MS175

Motor Power		STAGE	Outlet size 125mm (5")						50Hz		
			Discharge								
kW	HP		m³/h	0	75.0	108.0	168.0	198.0	216.0	234.0	252.0
			lps	0.0	20.80	30.00	46.70	55.00	60.00	65.00	70.00
			lpm	0	1250	1800	2800	3300	3600	3900	4200
55.0	75.0	4	Head in Meters	124	106	97	80	68	61	52	36
63.0	85.0	5		155	133	122	100	85	76	65	45
75.0	100.0	6		186	160	146	120	102	91	78	54
93.0	125.0	7		217	186	170	140	119	106	91	63



HORIZONTAL & VERTICAL OPENWELL SUBMERSIBLE PUMPS

HORA & VERNASERIES



HORIZONTAL OPENWELL PUMPS

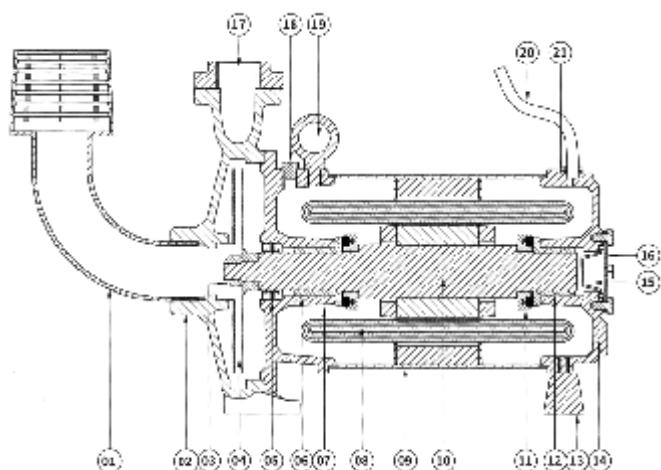
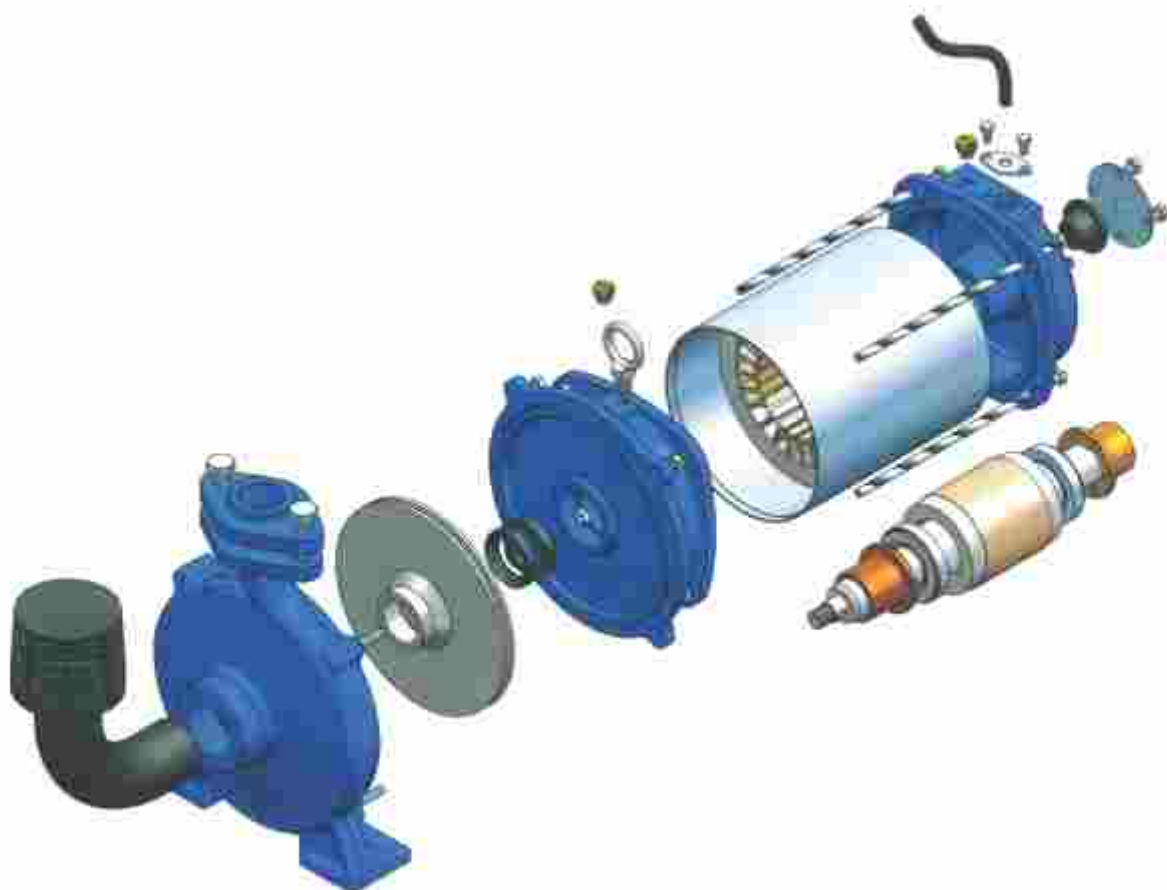
Technical Specifications

SERIES		HORA	VERNA
Model		HM / HS	VM / VS
Power Range	kW	0.37 to 22 kW	2.2 to 5.5 kW
	HP	0.5 to 30 HP	3 to 7.5 HP
Nominal Outlet size	Inch	1", 1.25", 1.5", 2", 2½", 3" & 4"	2" & 2½"
	mm	25, 32, 40, 50, 65, 80 & 100	50 & 65
Speed	rpm	2880	2880
Discharge range	m³/h	1.0 to	4 to 40
	lpm	16.67 to 100	66.67 to 666
	lps	0.28 to 1.67	1.11 to 11.11
Head range	m	6 to 78	20 to 68
	ft	20 to 256	66 to 223
Method of starting	1Ph	CSCR	CSCR
	3Ph	DOL / SD	DOL
Version	1Ph	180 - 230V	180 - 230V
	3Ph	380 - 415V	380 - 415V
Degree of Protection		IP 58	IP 58
Duty		S1 continuous	S1 continuous

Sr. No.	PART NAME	MATERIAL
1	BEARING HOUSING	HIGH GRADE CAST IRON
2	ROTOR SHAFT	SS 410
3	BEARING BUSH	LTB-4
4	THRUST BEARING	SS SEGMENT / CARBON
5	BOLTS & NUTS	EN8 STEEL
6	STAGE CASING	CAST IRON
7	PUMP SHAFT	EN8 STEEL
8	IMPELLER	HIGH GRADE CAST IRON

HORIZONTAL OPENWELL PUMPS

Exploded View - HS Series

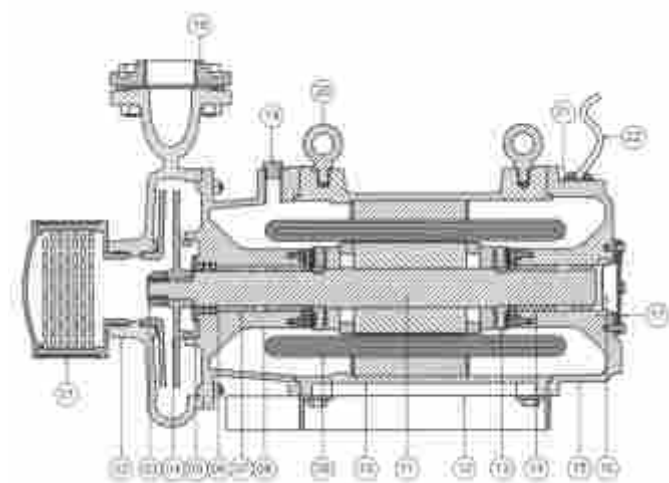
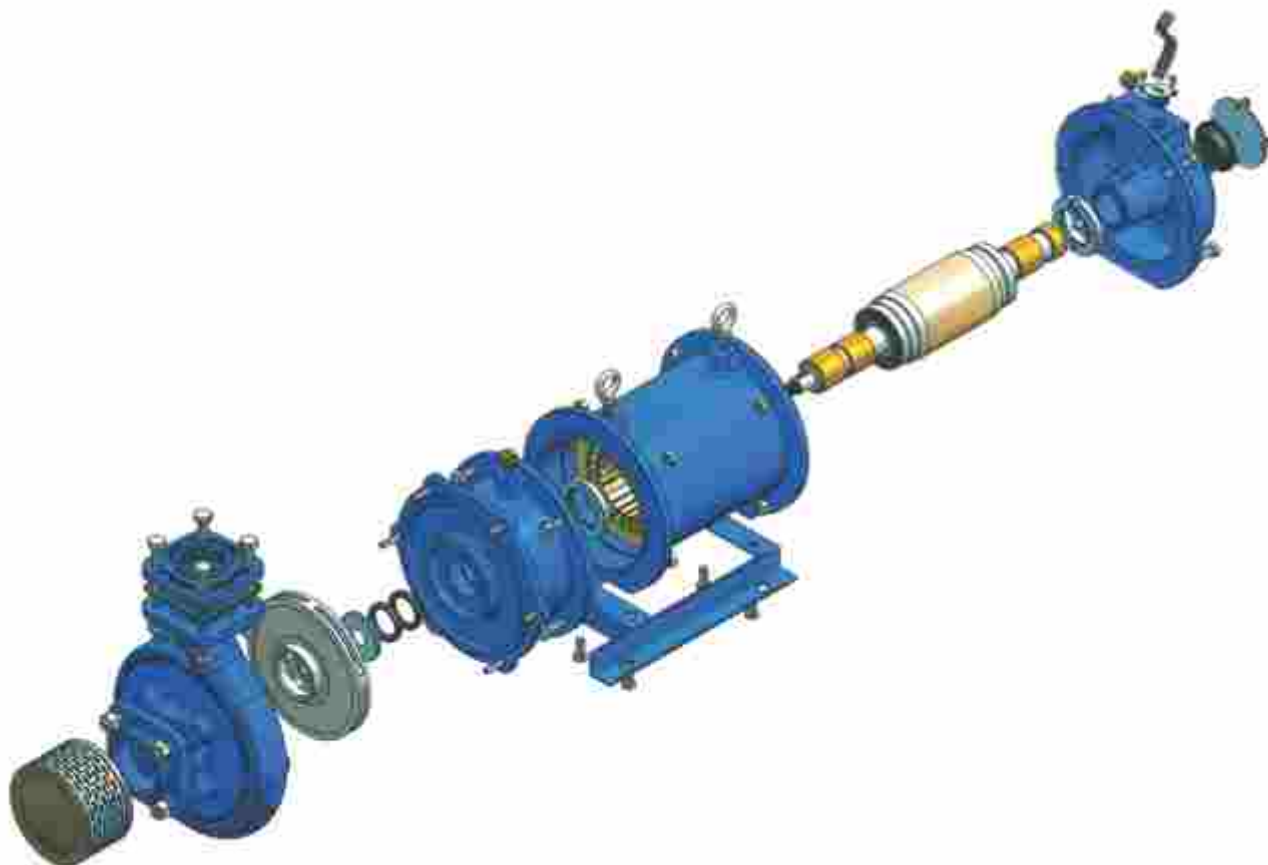


Sr. No.	PART NAME
01	FOOT VALVE
02	DELIVERY CASING
03	LOCK NUT
04	IMPELLER
05	OIL SEAL
06	BUSH AT FRONT HOUSING
07	FRONT HOUSING
08	WINDING
09	STATOR BODY
10	ROTOR
11	THRUST BEARING

Sr. No.	PART NAME
12	BUSH AT REAR HOUSING
13	BASE STAND
14	REAR HOUSING
15	PRESSURE CUP
16	PRESSURE CUP COVER
17	DELIVERY FANGE
18	DRAIN PLUG
19	HOOK
20	CABLE
21	GROMET COVER

HORIZONTAL OPENWELL PUMPS

Exploded View - HM Series



Sr. No.	PART NAME
01	FOOT VALVE
02	DELIVERY CASING
03	LOCK NUT
04	IMPELLER
05	SEAL GUARD
06	OIL SEAL
07	BUSH AT FRONT HOUSING
08	FRONT HOUSING
09	WINDING
10	STATOR BODY
11	ROTOR

Sr. No.	PART NAME
12	BASE STAND
13	THRUST BEARING SET
14	BUSH AT REAR HOUSING
15	REAR HOUSING
16	PRESSURE CUP
17	PRESSURE CUP COVER
18	DELIVERY FLANGE
19	DRAIN PLUG
20	HOOK
21	GROMMET COVER
22	CABLE

HORIZONTAL OPENWELL SUBMERSIBLE PUMPS

Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h											
	KW	HP		Head m	7	10	12	15	17	20	22	25	27	30	32
HM-20/10S	0.75	1	50 X 50	Discharge m³/h	24	19	14								
HM-13/15S	1.1	1.5	40 X 40				19	18	13	11	9	6			
HM-11/20S	1.5	2	40 X 40			14	12	11	11	10	11	9	10	8	7
HM-40/20S	1.5	2	80 X 80		46	39	36	24							

Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h											
	KW	HP		Head m	14	18	22	24	26	32	36	38	40	46	50
HM-17/30S	2.2	3	50 X 40	Discharge m³/h	21	19	17	17	16	11	7	4			
HM-23/50S	3.7	5	50 X 40			26	24	23	23	20	19	17	16	10	
HM-28/75T	5.5	7.5	50 X 50				32	30	29	26	24	23	22	17	11
HM-35/30S	2.2	3	65 X 50		41	35	28	23	18						
HM-50/50T	3.7	5	65 X 50		53	49	44	36	31	29	23	12			
HM-40/75T	5.5	7.5	65 X 50				49	45	43	41	39	37	35	25	
HM-48/100T	7.5	10	65 X 50							51	48	47	44	37	30

Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h											
	KW	HP		Head m	12	14	18	22	24	26	28	32	36	38	40
HM-42/30S	2.2	3	80 X 80	Discharge m³/h	47	41	24								
HM-70/75T	5.5	7.5	80 X 80		74	73	71	63	59	53	46	29			
HM-100/100T-H	7.5	10	80 X 80					112	104	101	95	81	61		



HORIZONTAL OPENWELL SUBMERSIBLE PUMPS

Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h														
	KW	HP		Head m	6	9	10.5	12	13.5	15	18	19.5	21	24	25.5	27	28.5	30
HS-07/05S	0.37	0.5	25 X 25	Discharge m³/h			8	7	6	4								
HS-08/05S	0.37	0.5	25 X 25		11	8	7	6	5	3								
HS-06/05S-H	0.37	0.5	25 X 25			8	7	6	6	5	4	2						
HS-10/10S	0.75	1	32 X 25						11	10	9	8	6	4	2			
HS-07/10S-H	0.75	1	32 X 25									9	8	7	6	5	5	4
HS-16/07S	0.75	1	40 X 40		22	19	17	16	15	14	11	9	6					
HS-14/15S	1.1	1.5	40 X 32							16	15	14	13	11	10	8	5	2
HS-18/20S	1.5	2	50 X 40				19	18	18	17	16	15	15	13	12	11	9	7
HS-25/20S	1.5	2	50 X 50			29	27	26	24	23	19	15	8					

Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h													
	KW	HP		Head m	6	9	10.5	12	13.5	15	18	19.5	21	24	25.5	27	28.5
HM-40/30S	2.2	3	65 X 50	Discharge m³/h		44	42	40	38	35	30	27	24	7			
HM-45/30S	2.2	3	65 X 65				50	48	46	43	35	29	22				
HM-48/50T	3.7	5	65 X 65					50	49	48	45	43	41	34	31	24	14
HM-70/50T	3.7	5	80 X 65				77	73	70	65	56	51	45	27			
HM-75/50T	3.7	5	80 X 80			85	81	75	70	66	55	48	40				
HM-55/30S	2.2	3	100 X 100		71	57	51	41	18								
HM-80/50T	3.7	5	100 X 100		93	81	76	70	65	56	27						

Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h								
	KW	HP		Head m	19.5	21	24	27	30	33	36	39
HM-56/75T	5.5	7.5	80 X 65	Discharge m³/h		60	59	56	51	46	35	
HM-75/100T	7.5	10	80 X 65		79	78	77	74	71	64	56	44
HM-65/75T	5.5	7.5	80 X 80		75	72	65	54	42	24		
HM-65/100T	7.5	10	80 X 80					70	63	54	42	24
HM-85/125T	9.3	12.5	80 X 80				92	85	72	60	42	



HORIZONTAL OPENWELL SUBMERSIBLE PUMPS

Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h															
	KW	HP		Head m	28.5	30	33	36	39	42	45	51	57	63	66	69	72	75	78
HM-65/125T	9.3	12.5	80 X 65	Discharge m³/h		71	68	64	57	49	39	25							
HM-25/150T	11	15	65 x 50									32	30	28	26	25	23	20	17
HM-70/150T	11	15	80 x 65			76	73	70	67	62	54	33							
HM-80/175T	13	17.5	80 x 65		86	84	80	77	70	63	54	30							
HM-80/200T	15	20	80 x 65					86	83	80	76	69	57						
HM-85/250T	18.5	25	80 x 65								92	82	72	59	51	41	35		
HM-90/300T	22	30	80 x 65								99	93	83	72	65	58	51	42	30
HM-75/150T	11	15	80 x 80			89	86	77	67	51									
HM-95/175T	13	17.5	80 x 80			101	98	93	87	78	66								

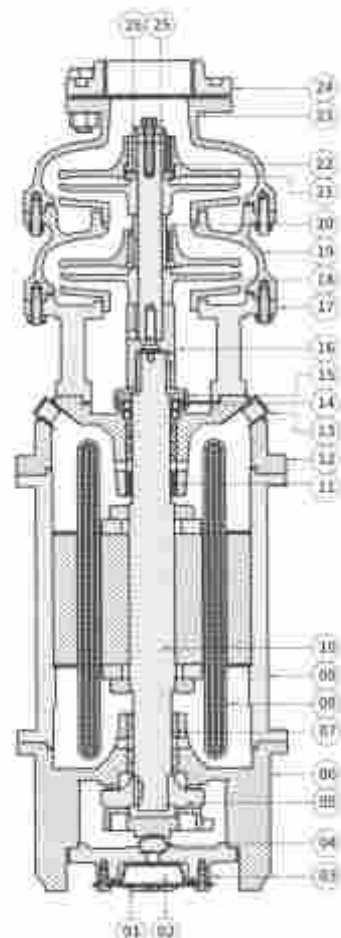
Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h															
	KW	HP		Head m	12	15	18	19.5	21	24	27	30	33	36	39	42	45	51	60
HM-85/75T	5.5	7.5	100 X 80	Discharge m³/h	99	87	77	71	65	53	36								
HM-95/100T	7.5	10	100 X 80			111	104	99	96	87	77	63	42						
HM-110/150T	11	15	100 X 80							117	110	102	96	84	72	54			
HM-100/200T	15	20	100 X 80									111	105	99	92	84	72	48	
HM-110/250T	18.5	25	100 X 80										126	119	111	105	99	84	
HM-120/300T	22	30	100 X 80										132	128	122	116	110	94	66

Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h															
	KW	HP		Head m	10.5	12	15	19.5	21	24	27	28.5	30	33	36	39	42	45	48
HM-90/75T	5.5	7.5	100 x 100	Discharge m³/h	105	99	89	72	66	33									
HM-110/100T	7.5	10	100 x 100			120	114	104	99	89	75	51							
HM-120/125T	9.3	12.5	100 x 100					129	126	116	108	102	96	78					
HM-125/150T	11	15	100 x 100						134	126	118	114	108	90	75				
HM-180/300T	22	30	125 x 100								204	198	192	180	165	147	126	93	24

Model Name	Motor Power		Suc. x Del. Size mm	Head in Meter / Discharge in m³/h												
	KW	HP		Head m	15	18	19.5	21	24	25.5	27	28.5	30	33	36	39
HM2-08/11S	1.1	1.5	40 X 40	Discharge m³/h	10	9	9	9	8	8	8	7	7	6	4	1
HM2-10/15S	1.5	2	40 X 40				11	11	10	10	10	10	9	9	8	8

VERTICAL OPENWELL PUMPS

Exploded View - VM Series



Sr. No.	PART NAME
01	PRESSURE CUP
02	PRESSURE CUP COVER
03	END COVER
04	ROCKER SUPPORT
05	THRUST BEARING SET
06	LOWER HOUSING
07	BUSH AT LOWER HOUSING
08	WINDING
09	STATOR BODY
10	ROTOR
11	BUSH AT UPPER HOUSING
12	UPPER HOUSING
13	DRAIN PLUG

Sr. No.	PART NAME
14	OIL SEAL
15	SAND GUARD
16	MOTOR COUPLING
17	SECTION
18	IMPELLER
19	MIDDLE BOWL
20	MIDDLE SLEEVE
21	WASHER
22	BUSH
23	TOP BOWL
24	FLANGE
25	END WASHER
26	END SLEEVE

VERTICAL OPENWELL SUBMERSIBLE PUMPS

Model	Motor Rating		No. of Stages	Outlet Size (mm)	Discharge in LPS / m³/h							
	KW	HP			lps	0	1.29	1.47	2.53	2.75	2.94	3.24
					m³/h	0	4.6	5.3	9	10	11	12
VS2-10/10	0.75	1.00	2	50	Head in Meter	30	26	24	14	12	10	8
VS3-10/15	1.10	1.50	3	50		30			28	26	25	17
VS4-10/20	1.50	2.00	4	50		64	60	52	50	48	45	40

Model	Motor Rating		No. of Stages	Outlet Size (mm)	Discharge in LPS / m³/h							
	KW	HP			lps	0	5.18	6.54	8.20	8.60	9.52	10.24
					m³/h	0	19	24	30	31	34	37
VS2-30/30	2.20	3.00	2	65	Head in Meter	36	30	24	15	12	6	5
VS3-30/50	3.70	5.00	3	65		55	47	42	32	27	22	12
VS4-30/75	5.50	7.50	4	65		78	68	60	50	43	23	18

Model	Motor Rating		No. of Stages	Outlet Size (mm)	Discharge in LPS / m³/h							
	KW	HP			lps	0	6.12	10.87	11.41	12.16	13.27	14.89
					m³/h	0	22	39	41	44	48	54
VS2-40/50	3.70	5.00	2	65	Head in Meter	40	37	24	20.5	17.5	12.5	2.5
VS3-40/75	5.50	7.50	3	65		63	55	40	33	30	23	10
VS4-40/100	7.50	10.00	4	65		76	73	55	48	42	30	15
VS6-40/150	11.00	15.00	6	65		140	129	88	80	75	70	55
VS8-40/200	15.00	20.00	8	65		166	145	115	110	100	80	60

Model	Motor Rating		No. of Stages	Outlet Size (mm)	Discharge in LPS / m³/h						
	KW	HP			lps	0	7.77	11.66	12.41	15.40	15.90
					m³/h	0	28	42	45	55	57
VS2-45/75	5.50	7.50	2	65	Head in Meter	45	-	37	32	24	20
VS3-45/100	7.50	10.00	3	65		67	58	43.8	32	27	22
VS4-45/150	11.00	15.00	4	65		87	81	60	55	35	30
VS6-45/200	15.00	20.00	6	65		145	125	76	54	20	15
VS8-45/250	18.00	25.00	8	80		166	143	105	90	55	45



VERTICAL OPENWELL SUBMERSIBLE PUMPS

Model	Motor Rating		No. of Stages	Outlet Size (mm)	Discharge in LPS / m³/h							
	KW	HP			lps	0	9.30	11.25	13.16	15.83	17.55	18.03
					m³/h	0	33	41	47	57	63	65
VS1-45/50	3.70	5.00	1	80	Head in Meter	26	24	17.5	17.5	12.5	7.2	3.8
VS2-45/100	7.50	10.00	2	80		52	48	43	38	34	28	23
VS3-45/150	11.00	15.00	3	80		76	62	59	52	32	24	22.2
VS4-45/200	15.00	20.00	4	80		96	85	80	60	40	38	30
VS5-45/250	18.00	25.00	5	80		112	92	76	67	52	45	35
VS6-45/300	22.00	30.00	6	80		140	120	90	70	60	50	40

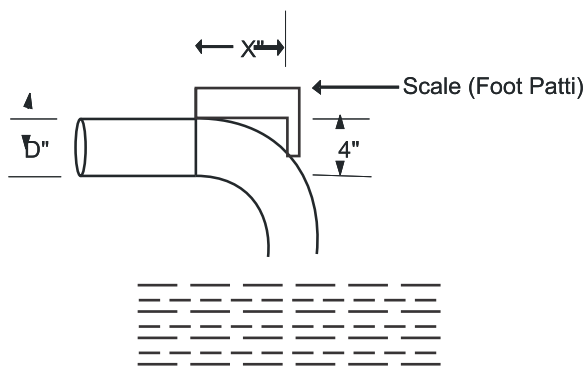
Model	Motor Rating		No. of Stages	Outlet Size (mm)	Discharge in LPS / m³/h						
	KW	HP			lps	0.00	20.41	26.85	32.38	37.80	42.26
					m³/h	0	73	97	117	136	152
VS2-100/200	15.00	20.00	2	100	Head in Meter	48	37	32	26	19	10
VS3-100/300	22.00	30.00	3	125		72	55	48	45	35	30
VS4-100/400	30.00	40.00	4	100		96	70	55	50	45	40

Model	Motor Rating		No. of Stages	Outlet Size (mm)	Discharge in LPS / m³/h						
	KW	HP			lps	0.00	21.00	30.00	37.00	47.30	55.50
					m³/h	0	76	108	133	170	200
VS1-110/200	15.00	20.00	1	125	Head in Meter	32	30	29	23	20	10
VS4-110/750	55.00	75.00	4	150		125	95	80	60	10	

Model	Motor Rating		No. of Stages	Outlet Size (mm)	Discharge in LPS / m³/h					
	KW	HP			lps	0.00	19.90	37.50	49.30	53.80
					m³/h	0	72	135	177	194
VS1-135/150	11.00	15.00	1	125	Head in Meter	22	20	15	10	5
VS2-135/300	22.00	30.00	2	125		50	45	35	30	20
VS3-135/400	30.00	40.00	3	125		80	65	45	35	25
VS4-135/500	37.20	50	4	125		115	95	60	10	



HORIZONTAL DISTANCE "X" IN INCHES	DISCHARGE (LPM) NOMINAL PIPE DIAMETER "D"								
	1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"
4	25.878	44.492	60.382	99.88	140.74	222.46	376.82	590.2	862.6
5	32.234	55.388	75.364	127.12	177.06	276.94	472.16	749.1	1089.6
6	38.59	66.738	90.8	149.82	213.38	331.42	567.5	885.3	1293.9
7	45.4	77.634	105.328	177.06	249.7	385.9	662.84	1044.2	1520.9
8	51.302	88.984	120.31	199.76	281.48	444.92	753.64	1180.4	1725.2
9	58.112	99.88	135.292	227	317.8	499.4	848.98	1339.3	1952.2
10	64.468	111.23	150.728	249.7	354.12	553.88	944.32	1475.5	2156.5
11	70.824	118.04	165.71	276.94	390.44	608.36	1039.66	1634.4	2383.5
12	77.18	131.66	177.06	299.64	426.76	667.38	1135	1770.6	2587.8
13	83.99	143.01	195.22	326.88	458.54	721.86	1225.8	1929.5	2814.8
14	90.8	154.36	211.11	349.58	494.86	776.34	1321.14	2043	3019.1
15	96.702	164.802	225.184	376.82	531.18	830.82	1416.48	2224.6	3223.4
16	103.058	177.06	240.62	399.52	567.5	889.84	1511.82	2360.8	3450.4
17	109.414	188.41	255.602	426.76	603.82	944.32	1602.62	2519.7	3677.4
18	115.77	198.398	270.584	449.46	635.6	998.8	1697.96	2678.6	3881.7
19	122.58	209.748	285.566	476.7	671.92	1053.28	1793.3	2814.8	4108.7
20	128.936	220.644	300.548	503.94	708.24	1107.76	1888.64	2951	4313
21	135.292	231.54	315.53	526.64	744.56	1162.24	1983.98	3109.9	4540
22	141.648	242.89	330.512	553.88	780.88	1221.26	2074.78	3268.8	4767
23	148.458	253.786	345.494	576.58	812.66	1275.74	2170.12	3405	4971.3
24	154.814	264.682	360.476	603.82	848.98	1330.22	2265.46	3541.2	5175.6
25	161.17	275.578	375.458	626.52	885.3	1389.24	2360.8	3700.1	5402.6
26	167.526	286.928	390.44	653.76	921.62	1443.72	2456.14	3836.3	5606.9
27	173.882	297.824	405.422	676.46	957.94	1498.2	2546.94	3995.2	5833.9
28	180.692	308.72	420.858	703.7	989.72	1552.68	2642.28	0	0
29	187.048	320.07	435.84	726.4	1026.04	1607.16	2737.62	0	0
30	193.404	330.966	450.822	753.64	1062.36	1666.18	2832.96	0	0
31	0	0	467.62	776.34	1098.68	1720.66	0	0	0
32	0	0	481.24	803.58	1135	1775.14	0	0	0
33	0	0	494.86	826.28	1166.78	1829.62	0	0	0
34	0	0	513.02	853.52	1203.1	1884.1	0	0	0
35	0	0	526.64	880.76	1239.42	1943.12	0	0	0



Example :

Horizontal Distance X" = 20"

Nominal Pipe Diameter D" = 2"

Discharge = 504

FRICTION LOSS IN METER FOR GALVANIZED PIPE (C-100/PER MTR.)

Flow rate in LPM	Nominal pipe dia in mm/Inches								
	25/ 1"	32/ 1.25"	40/ 1.5"	50/ 2"	65/ 2.5"	80/ 3"	100/ 4"	125/ 5"	150/ 6"
30	0.098	-----	-----	-----	-----	-----	-----	-----	-----
60	0.362	0.1197	-----	-----	-----	-----	-----	-----	-----
75	0.532	0.1808	0.0748	-----	-----	-----	-----	-----	-----
96	0.840	0.2856	0.1181	0.0287	-----	-----	-----	-----	-----
120	1.260	0.4314	0.1785	0.0434	-----	-----	-----	-----	-----
150	-----	0.0519	0.2697	0.0656	0.0221	-----	-----	-----	-----
192	-----	1.0293	0.4257	0.1035	0.0349	-----	-----	-----	-----
240	-----	-----	0.6133	0.1565	0.0528	0.0217	-----	-----	-----
300	-----	-----	0.9721	0.2362	0.0798	0.0328	-----	-----	-----
480	-----	-----	-----	0.5641	0.1903	0.0783	-----	-----	-----
600	-----	-----	-----	0.8523	0.2875	0.1183	0.0291	-----	-----
760	-----	-----	-----	1.2879	0.4345	0.1788	0.0440	-----	-----
960	-----	-----	-----	2.0332	0.6859	0.2823	0.0695	0.0235	-----
1200	-----	-----	-----	3.0727	1.0365	0.4265	0.1051	0.0354	-----
1500	-----	-----	-----	-----	1.5662	0.6445	0.1588	0.0536	0.0220
1920	-----	-----	-----	-----	2.4728	1.0176	0.2507	0.0846	0.0348
2400	-----	-----	-----	-----	-----	1.5376	0.3788	0.1278	0.0526
2400	-----	-----	-----	-----	-----	-----	0.3788	0.1278	0.0526
3000	-----	-----	-----	-----	-----	-----	0.5724	0.1931	0.0795
3600	-----	-----	-----	-----	-----	-----	0.8020	0.2705	0.1113
4800	-----	-----	-----	-----	-----	-----	1.3656	0.4606	0.1896
6000	-----	-----	-----	-----	-----	-----	-----	0.6960	0.2864
7500	-----	-----	-----	-----	-----	-----	-----	1.0518	0.4328

FRICTION LOSS IN METER FOR PVC PIPE (C-100/PER MTR.)

Flow rate in LPM	Nominal pipe dia in mm/Inches								
	25/ 1"	32/ 1.25"	40/ 1.5"	50/ 2"	65/ 2.5"	80/ 3"	100/ 4"	125/ 5"	150/ 6"
30	0.046	-----	-----	-----	-----	-----	-----	-----	-----
60	0.166	0.0565	-----	-----	-----	-----	-----	-----	-----
75	0.251	0.0854	0.0353	-----	-----	-----	-----	-----	-----
96	0.397	0.1349	0.0558	0.0136	-----	-----	-----	-----	-----
120	0.599	0.2038	0.0843	0.0205	-----	-----	-----	-----	-----
150	-----	0.3079	0.1274	0.0310	0.0104	-----	-----	-----	-----
192	-----	0.4861	0.2011	0.0489	0.0165	-----	-----	-----	-----
240	-----	-----	0.3039	0.0739	0.0249	0.0103	-----	-----	-----
300	-----	-----	0.4591	0.1117	0.0377	0.0155	-----	-----	-----
480	-----	-----	-----	0.2661	0.0899	0.0370	-----	-----	-----
600	-----	-----	-----	0.4025	0.1358	0.0559	0.0139	-----	-----
760	-----	-----	-----	0.6083	0.2052	0.0844	0.0208	-----	-----
960	-----	-----	-----	0.9604	0.3240	0.1333	0.0328	0.0111	-----
1200	-----	-----	-----	1.4513	0.4895	0.2015	0.0496	0.0167	-----
1500	-----	-----	-----	-----	0.7397	0.3044	0.0750	0.0253	0.0104
1920	-----	-----	-----	-----	1.1679	0.4806	0.1184	0.0399	0.0164
2400	-----	-----	-----	-----	-----	0.7262	0.1789	0.0604	0.0248
2400	-----	-----	-----	-----	-----	-----	0.1789	0.0604	0.0248
3000	-----	-----	-----	-----	-----	-----	0.2703	0.0912	0.0375
3600	-----	-----	-----	-----	-----	-----	0.3788	0.1278	0.0526
4800	-----	-----	-----	-----	-----	-----	0.6150	0.2176	0.0895
6000	-----	-----	-----	-----	-----	-----	-----	0.3288	0.1353
7500	-----	-----	-----	-----	-----	-----	-----	0.4968	0.2044

SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 220 VOLTAGE -SINGLE PHASE- 50 Hz

HP	INSTALLATION DEPTH IN MTR																					
	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	270	320	370	420	470	500
0.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	6
0.75	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	10	10	10	10
1	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	10	10	10	16	16
1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	10	16	16	16	16	25
2	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	10	16	16	16	25	25	25
3	2.5	2.5	2.5	2.5	4	4	6	6	6	6	10	10	10	16	16	16	16	25	25	35	35	35
4	4	4	4	4	4	6	6	6	10	10	10	16	16	16	16	25	25	35	35	35	35	35
5	4	4	4	4	6	6	10	10	10	10	10	16	16	25	25	25	35	35	35	50	50	50
6	6	6	6	6	10	10	10	10	10	16	16	16	25	25	25	35	35	35	50	50	50	50
7.5	6	6	6	10	10	10	10	10	10	16	16	25	25	25	35	35	35	50	50	50	50	50
10	10	10	10	10	10	10	10	10	16	25	25	25	25	35	35	35	50	50	50	50	50	50

SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 415 VOLTAGE DOUBLE CABLE- THREE PHASE - 50 Hz

	INSTALLATION DEPTH IN MTR																						
HP	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	270	320	370	420	470	500	
7.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	1.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	
10	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	10	10	10	10	16	
12.5	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	16	16	16	16	
15	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	16	16	16	16	
17.5	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	16	16	16	25	25	
20	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	16	16	16	25	25	
22.5	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	25	
25	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	25	
30	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	35	35	
35	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	25	35	35	50	50	
40	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	25	35	35	50	50	
45	10	10	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	35	50	50	50	50	
50	10	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	25	35	50	50	50	50	
60	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	25	35	50	50	50	—	—	
75	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	50	50	50	—	—	—	
85	16	16	16	16	16	16	16	16	16	25	25	25	35	35	50	50	50	—	—	—	—	—	
100	16	16	16	16	16	16	16	16	16	25	25	25	35	35	50	50	50	—	—	—	—	—	
125	25	25	25	25	25	25	25	25	25	25	35	35	35	50	50	—	—	—	—	—	—	—	

SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 415 VOLTAGE SINGLE CABLE - THREE PHASE - 50 Hz

	INSTALLATION DEPTH IN MTR																					
HP	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	270	320	370	420	470	500
0.75	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5
2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4
3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4	4	4	6	6
4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	6
5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	10	10	10
6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10
7.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	16	16
10	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	16	16	16	16
12.5	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	16	16	16	25	25	25
15	6	6	6	6	6	6	8	8	8	8	8	8	8	10	10	10	16	16	16	25	25	25
17.5	6	6	6	6	6	6	8	8	8	8	8	10	10	10	16	16	16	25	25	25	35	35
20	8	8	8	8	8	8	8	8	8	8	8	10	10	10	16	16	16	25	25	25	35	35
22.5	8	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	35	35	35	50
25	8	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	35	35	35	50
30	10	10	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	35	35	50	50	50
35	16	16	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	50	50	50	—	—
40	16	16	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	50	50	50	—	—
45	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	35	50	50	50	—	—
50	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	35	50	50	50	—	—
60	25	25	25	25	25	25	25	25	25	25	25	25	25	35	35	50	50	50	—	—	—	—
75	25	25	25	25	25	25	25	25	25	25	25	35	35	50	50	50	—	—	—	—	—	—
85	50	50	50	50	50	50	50	50	50	50	50	50	50	50	—	—	—	—	—	—	—	—
100	50	50	50	50	50	50	50	50	50	50	50	50	50	50	—	—	—	—	—	—	—	—
125	50	50	50	50	50	50	50	50	50	50	50	50	50	50	—	—	—	—	—	—	—	—

Sprinkler Application - Pumpset Selection

Total Head Calculation

H1: Actual Lowering of pumpset in Meter

H2: Horizontal pipe line friction losses (1% of total length)

H3: Vertical Height of slope (In case of slope only)

H4: Pressure required in each sprinkler x No. of sprinkler (Avg. 1 Meter per sprinkler)

Total Head H = H1+H2+H3+H4

Discharge Calculation

Total Discharge = 30 LPM X No. of Sprinkler

Example :

Actual Lowering (H1) = 175 ft. (53mtr.)

Length of pipe line (distance from the last sprinkler) = 1500Ft. (455mtr.) so the 1% friction loss (H2) = 5mtr.

H3 = 0 (if no slope in line)

20 Nozzles are required so H4 = 20 Mtr.

H = 53+5+0+20 = 78 mtr.

20 Sprinklers are required so Discharge required Q = 30 X 20 = 600 LPM

Example

Calculation for H.P.

- $H.P. = \frac{\text{Head (M)} \times \text{Discharge (LPM)}}{4500 \times \text{Pump Eff.}}$

Example:

Head = 78 M

Discharge = 400 LPM

Pump Eff. = 68%

H.P. = $\frac{78 \times 400}{4500 \times 0.68}$

= 10.19

Calculation for Current

- $H.P. = \frac{(\sqrt{3} \times \text{Voltage} \times \text{Current} \times \text{Power Factor})}{746}$

So that,

$\text{Current} = \frac{H.P. \times 746}{(\sqrt{3} \times \text{Voltage} \times \text{Power Factor})}$

Example :

HP = 10, Voltage = 415, Power Factor = 0.95 then

Current = $\frac{10 \times 746}{(\sqrt{3} \times 415 \times 0.95)}$

Current = 10.93 Ampere

[illegible]