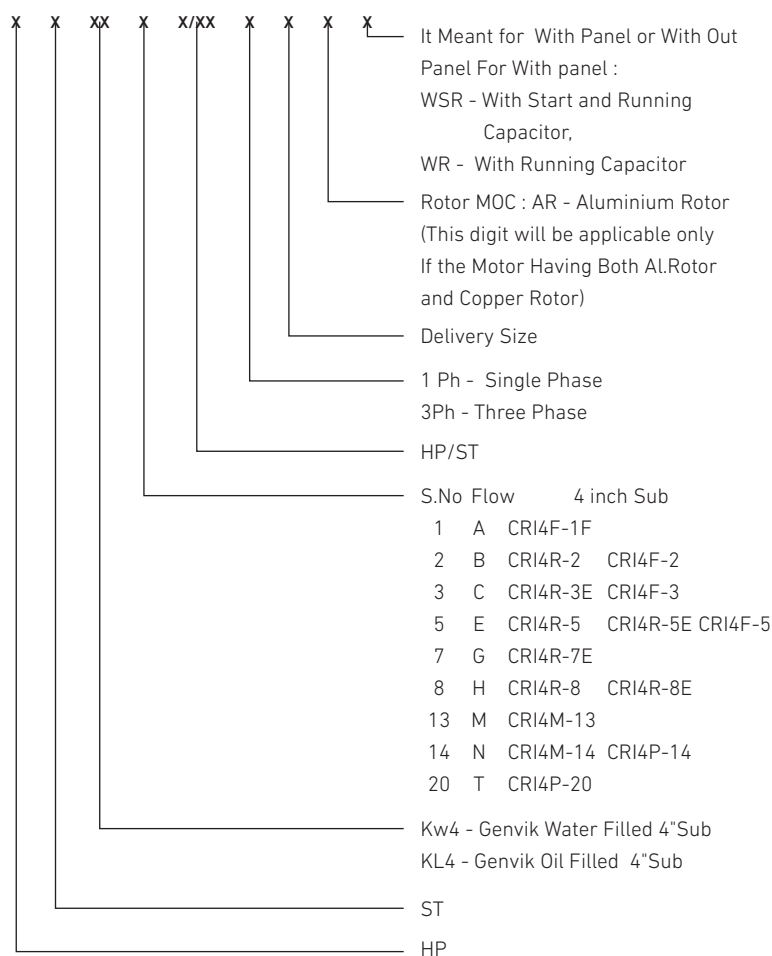




DESCRIPTION

Genvik 100 mm (4") Bore well Submersible are pre-filled with non -toxic liquid for best performance in low voltage and high efficiency. The pump is firmly coupled to a submersible electric motor which operates submerged beneath the surface of water. The optimal design of impeller and diffuser enables the best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering. All vital components of these pumps are made up of corrosion resistance thermoplastic and the shaft is SS431.

MODEL IDENTIFICATION



FEATURES

Motor portion covered with corrosive resistance SS 304 shell
More durability and hygiene
High operating efficiency
Specially designed thrust bearing to withstand high axial thrust load
Easy removal of stator ensures service feasibility
Designed for wide voltage operation
Non-toxic pre filled liquid motor ensures low voltage performance

APPLICATIONS

Domestic and municipal water supply
Rural water supply
Sprinkler systems
Pressure boosting units
Industrial and mining application
Fountains

SPECIFICATION

100mm (4") SUBMERSIBLE PUMPSET

Power range	0.37 kW – 5.5 kW (0.5 HP – 2 HP)
Speed	2850 RPM
Version	Single phase 230V, Three phase 415V, 50Hz, AC Supply
Maximum total head	178 metre
Maximum flow rate	3.5 lps (12.60 m ³ /h)
Maximum outer diameter	98 mm
Nominal outlet size	32, 40, & 50 mm
Degree of protection	IP 58
Direction of rotation	Counter clockwise from driving end - Single phase
Thrust load	0.37 kW - 0.75 kW - 650 lbs; 1.1 kW - 1.5kW - 1000 lbs;
Minimum cooling flow along the motor	0.15 m/sec
Type of duty	S1 (Continuous)
Method of starting	1Ph - CSCR / CSR
Maximum starts per hour	20 times

MATERIALS OF CONSTRUCTION

PUMPS

Part Name	Material
Suction housing	Cast Iron
Impeller	Noryl / Delrin
Diffuser chamber	Cast Iron / Noryl / SS 304
Check valve housing	Cast iron
check valve	Delrin
Outer shell	SS 304
Counter thrust pad	SS 304 / Hylem
Intermediate bearing (Sleeve / Bush)	SS 304 / NBR / LTB 4 / (Gun metal with rubber)
Coupling	SS 304 / 410

MOTORS

Part Name	Material
Shaft seal	Nitrile butyl rubber
Rotor Shaft	SS 410 / 431
Stator Shell	SS 304
Bearing	SS Ball Bearing & SS Angular Contract Bearing
Diaphragm	Cast iron

100mm (4") BOREWELL SUBMERSIBLE
PUMPSETS - LIQUID FILLED

2800 RPM - At Rated Voltage - 1Ph 220 Volts, 3Ph 380-400 Volts,
50Hz, AC Supply. Max. Outer Diameter : 98 mm

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24
						0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
KL4A-05/7	0.37	0.5	7	32	Head in Metres	58.8	55.4	51.9	47.1	39.6	31.2	16.9		
KL4A-07/11	0.55	0.75	11	32		88.4	83.2	77.1	68.6	60.3	39.6	17.7		
KL4A-10/16	0.75	1	16	32		129.0	125.4	120.9	105.5	84.1	56.3	34.2	18.1	
KL4B-05/6	0.37	0.5	6	32		44.0	41.8	39.9	37.6	34.7	31.0	27.0	22.4	18.2
KL4B-10/8	0.75	1	8	32		68.0	65.3	63.0	60.6	57.0	50.2	44.2	36.5	
KL4B-10/13	0.75	1	13	32		92.0	88.4	84.4	80.1	71.6	63.9	56.4	48.1	39.0
KL4B-15/19	1.1	1.5	19	32		137.1	132.8	127.9	122.1	114.9	105.7	92.4	77.6	63.1

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	1.44	1.80	2.16	2.52	2.88	3.24	3.60	4.32
						0	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2
KL4C-15/14	1.1	1.5	14	32	Head in Metres	110.0	101.9	98.3	94.3	90.4	84.6	76.9	67.0	43.9

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	1.80	2.16	2.52	2.88	3.24	3.60	4.32	5.04
						0	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4
KL4C-10/7	0.75	1	7	32	Head in Metres	54.0	49.9	48.6	47	45.4	43.0	40.1	31.2	24.2
KL4C-10/9	0.75	1	9	32		71.0	65.5	63.5	61.2	58.2	53.6	49.6	41.2	31.8
KL4C-15/11	1.1	1.5	11	32		88.7	83.6	81.5	79.1	76.4	73.2	69.3	53.5	37.5

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92
						0	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2
KL4E-10/7	0.75	1	7	32/40	Head in Metres	50.0	42.5	41.3	38.2	34.3	29.3	23.5	16.6	9.7
KL4E-15/9	1.1	1.5	9	40		66.0	57.5	55.9	52.2	46.9	39.7	33.6	27.5	20.2