

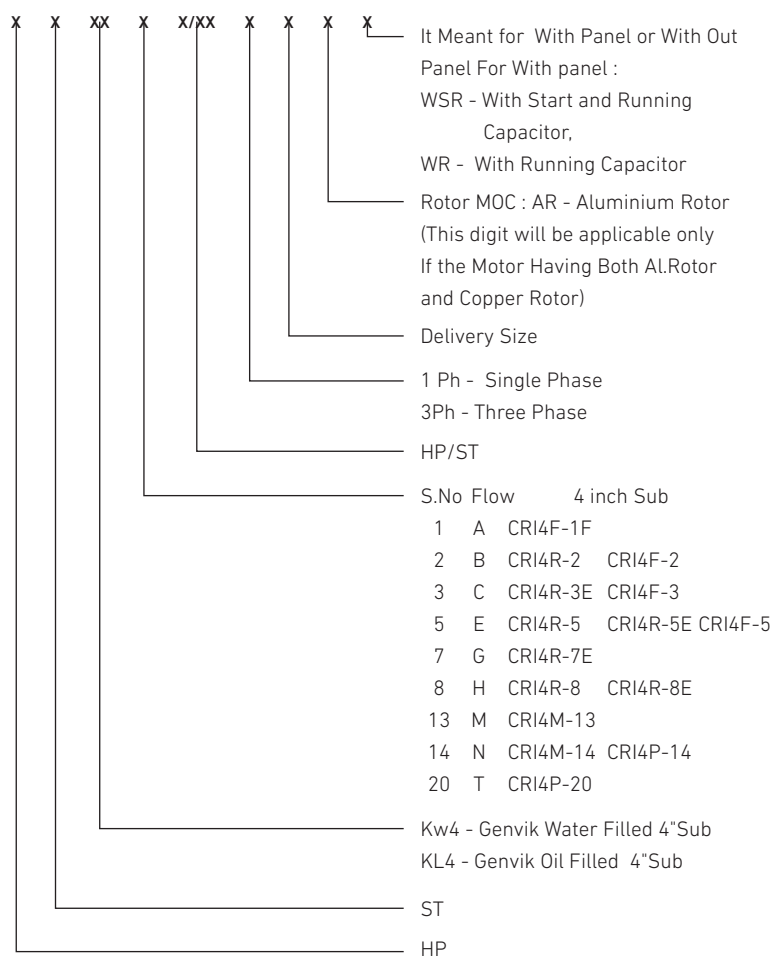


DESCRIPTION

Genvik 100 mm (4") Bore well Submersible 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 corrosive resistance thermoplastic and the shaft is of SS 431.

Specially designed DEEP DRAWN TYPE PUMP* ensures perfect alignment and thereby increases the life of the pumpset.

MODEL IDENTIFICATION



FEATURES

APPLICATIONS

Motor portion covered with corrosive resistance SS 304 shell	Domestic and municipal water supply
More durability and hygiene	Rural water supply
High operating efficiency	Sprinkler systems
Specially designed thrust bearing to withstand high axial thrust load	Pressure boosting units
Extremely hardwearing water lubricated bearing	Industrial and mining
Thread type motor construction ensures rigidity & service feasibility	Fountains
Designed for wide voltage operation	
Additional intermediate bearing in higher stage pumps	

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SPECIFICATION

100mm (4") SUBMERSIBLE PUMPSET

Power range	0.37 kW - 5.5 kW (0.5 HP - 7.5 HP)
Speed	2850 RPM
Version	Single phase 220V, Three phase 380 - 400V, 50Hz, AC Supply
Maximum total head	502 metre
Maximum flow rate	7 lps (25.20 m ³ /h)
Maximum outer diameter	98 mm
Nominal outlet size	32, 40, 50 & 65 mm
Degree of protection	IP 58
Direction of rotation	1Ph - Counter clockwise from driving end; 3Ph - Electrically Reversible
Thrust load	0.37 kW - 0.75 kW - 650 lbs; 1.1 kw - 1.5kW - 1000 lbs; 2.2kW - 7.5kW - 1500 lbs
Minimum cooling flow along the motor	0.15 m/sec
Type of duty	S1 (Countinuous)
Method of starting	1Ph - Capacitor Start Capacitor Run (CSCR); 3Ph - Direct Online(D.O.L)
Maximum starts per hour	20 times

MATERIALS OF CONSTRUCTION

PUMPS

Part Name	Material
Suction housing	Cast Iron
Impeller	Noryl / Delrin
Diffuser chamber	SS 304 / Cast Iron / Noryl
Check valve housing	Cast iron
check valve	Delrin
Outer shell	SS 304
Pump shaft	SS 410 / SS 431
Counter thrust pad	SS 304 / Hylem
Intermediate bearing (Sleeve / Bush)	SS 304 / NBR / LTB 4 / Teflon Carbon / Gunmetal with rubber
Coupling	SS 304 / 410

MOTORS

Part Name	Material
Shaft seal	Nitrile butyl rubber
Rotor Shaft	SS 410 / 431
Stator Shell	SS 304
Journal bushes	LTB 4 / Carbon
Snap Ring	SS 316
Thrust assembly	SS 420 & Graphite Carbon
Diaphragm	High Nitrile butyl rubber
Motor base	Cast iron

100mm (4") BOREWELL SUBMERSIBLE
PUMPSETS - WATER 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
						0	0.20	0.30	0.40	0.50	0.60	0.70	0.80
KW4A-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	
KW4A-07/11	0.55	0.75	11	32		88.4	83.2	77.1	68.6	60.3	39.6	17.7	
KW4A-10/16*#	0.75	1	16	32		129	125.4	120.9	105.5	84.1	56.3	34.2	18.1
KW4A-15/21*#	1.1	1.5	21	32		176	166.5	155.1	135.8	111.5	81.5	32.6	
KW4A-20/27*#	1.5	2	27	32		218	208.3	197.4	178.8	152	113.3	56.9	

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
						0	0.20	0.30	0.40	0.50	0.60	0.70	0.80
KW4B-10/8*#	0.75	1	8	32	Head in Metres	68.0	65.3	63.0	60.6	57.0	50.2	44.2	36.5
KW4B-10/12*#	0.75	1	12	32		99.0	95.8	92.0	87.6	82.2	74.1	63.6	53.6
KW4B-3/32*#	2.2	3	32	32		245.0	238.3	231.1	223.2	210.5	191.7	168.1	141.0

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
KW4C-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	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
KW4B-05/6*	0.37	0.5	6	32	Head in Metres	44.0	41.8	39.9	37.6	34.7	31.0	27.0	22.4	18.2
KW4B-07/8*#	0.55	0.75	8	32		58.5	57.0	55.4	53.4	50.9	46.1	40.3	32.1	25.0
KW4B-10/13*#	0.75	1	13	32/40		92.0	88.4	84.4	80.1	71.6	63.9	56.4	48.1	39.0
KW4B-15/17*#	1.1	1.5	17	32		122.0	117.3	112.9	107.4	98.5	88.6	78.1	65.0	52.4
KW4B-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
KW4B-20/23*#	1.5	2	23	32		163.0	157.1	150.7	143.2	133.6	119.7	106.4	88.7	70.8
KW4B-20/25*#	1.5	2	25	32		178.0	172.2	166.4	159.7	145.6	130.9	116.5	98.3	78.5
KW4B-20/30*#	1.5	2	30	32		216.0	208.9	201.1	191.4	181.2	164.5	144.9	119.8	
KW4B-3/35*#	2.2	3	35	32/40		245.0	238.3	228.7	219.6	210.3	193.8	162.4	132.8	103.9
KW4B-3/40*#	2.2	3	40	32/40		277.8	264.4	253.1	239.7	220.9	201.5	176.0	145.7	
KW4B-5/52*#	3.7	5	52	32/40		359.4	346.6	334.1	314.8	289.6	258.4	227.6	191.3	151.7
KW4B-6/60	4.5	6	60	32/40		410.0	398.6	384.4	363.9	335.2	294.8	262.8	221.7	
KW4B-7.5/75	5.5	7.5	75	32/40		502.2	472.9	456.6	440.0	422.3	396.3	341.3	258.9	

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100mm (4") BOREWELL SUBMERSIBLE
PUMPSETS - WATER 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	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
KW4C-10/7*#	0.75	1	7	32	Head in Metres	54.0	49.9	48.6	47.0	45.4	43.0	40.1	31.2	24.2
KW4C-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
KW4C-10/10	0.75	1	10	32		77	66	64	61	58	55	52	44	19
KW4C-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
KW4C-15/15	1.1	1.5	15	32		110.0	100.5	96.5	92.0	86.5	81.0	74.0	59.6	42.0
KW4C-20/14*#	1.5	2	14	32		112.0	102.5	99.2	95.8	92.2	88.0	82.3	67.0	50.3
KW4C-20/17*#	1.5	2	17	32		121.0	113.5	110.5	107.1	103.4	99.0	91.0	73.9	55.9

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
KW4C-3/20	2.2	3	20	32/40	Head in Metres	145.0	133.5	129.3	124.9	119.9	112.5	103.4	87.7	69.7
KW4C-3/24*#	2.2	3	24	32/40		182.0	171.0	166.9	162.4	156.6	147.6	138.3	119.9	86.1
KW4C-3/26*#	2.2	3	26	32/40		184.0	166.8	161.7	156.7	152.4	147.1	140.9	122.6	94.0
KW4C-5/40*#	3.7	5	40	32/40		300.9	272.1	263.5	253.5	239.5	222.3	200.4	151.6	113.1
KW4C-6/43*#	4.5	6	43	32/40		313.0	284.7	274.5	260.4	245.4	231.8	216.6	176.4	
KW4C-7.5/54	5.5	7.5	54	32/40		411.5	388.8	382.1	373.5	362.4	346.3	318.5	258.9	

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
KW4E-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
KW4E-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
KW4E-20/10*	1.5	2	10	50		73.3	65.2	63.4	59.4	52.6	46.7	39.4	28.4	19.1
KW4E-20/12*#	1.5	2	12	40		89.3	78.1	76.0	70.7	64.7	57.5	47.0	35.3	23.1
KW4E-3/15*#	2.2	3	15	40		111.0	97.1	94.7	89.3	81.6	71.0	59.2	45.4	30.4
KW4E-3/18*#	2.2	3	18	40/50		132.0	116.0	112.5	104.2	95.4	84.9	70.5	53.4	35.3
KW4E-5/25*#	3.7	5	25	40		181.4	158.2	154.1	144.0	133.9	121.2	100.5	77.0	
KW4E-5/27*#	3.7	5	27	40		191.7	168.8	164.3	152.7	138.3	120.8	98.8	74.9	
KW4E-5/32*#	3.7	5	32	40		214.7	176.9	172.5	160.8	140.6	118.2	97.0	76.8	

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20
						0	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0
KW4E-5/37*	3.7	5	37	40	Head in Metres	223.9	200.0	195.7	190.8	181.5	169.1	156.3	143.1	123.7

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100mm (4") BOREWELL SUBMERSIBLE
PUMPSETS - WATER 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	4.32	5.04	5.76	7.20	7.92	9.36	10.80
						0	1.2	1.4	1.6	2.0	2.2	2.6	3.0
KW4H-3/14	2.2	3	14	40/50	Head in Metres	103.9	91.7	88.7	84.7	72.6	65.9	52.5	38.8
KW4H-5/23	3.7	5	23	40		168.2	146.1	140.8	134.6	119.9	109.4	87.7	61.9
KW4H-6/28													

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	5.40	7.20	9.00	10.80	12.60	14.40	16.20	18.00
						0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
KW4H-20/8	1.5	2	8	50/65	Head in Metres	50.8	44.0	39.4	32.1	25.0	16.7			
KW4H-5/17	3.7	5	17	50		108.3	96.4	84.5	70.3	55.4	39.7			
KW4M-5/14	3.7	5	14	50		79.6		67.4	61.2	56.1	50.8	44.4	37.3	

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	7.92	10.01	11.98	14.00	15.85	18.00	20.02
						0	2.2	2.8	3.3	3.9	4.4	5.0	5.6
KW4N-3/10	2.2	3	10	50	Head in Metres	59	49	45	40	34	29	22	15

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.64	9.36
						0	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
KW4G-7.5/36	5.5	7.5	36	40	Head in Metres	236	219	216	214	207	201	194	185	176	165	150	131

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