



**Openwell Submersible Pumps - 50Hz**

An ISO 9001 Company



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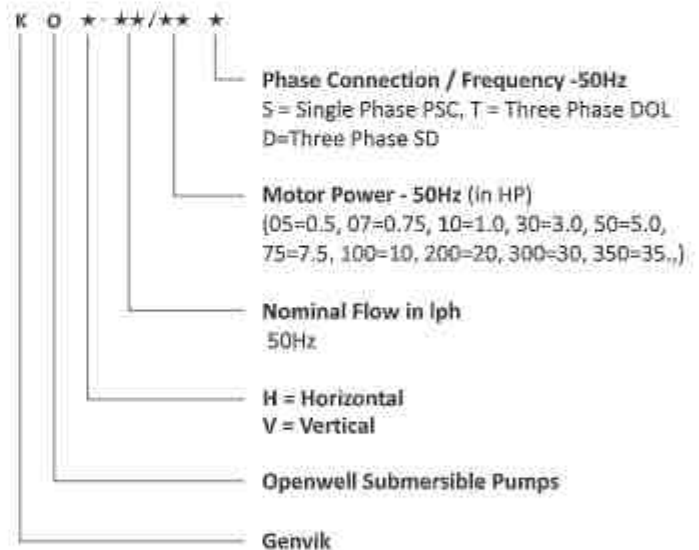
## Openwell Submersible Pumps

### DESCRIPTION

Genvik centrifugal openwell pump's volute chamber and impellers are carefully designed to give the best possible hydraulic efficiency and suction lift characteristic. State of the art machinery, technology and expertise gained over the years are employed in the manufacture of these pumps using quality raw material, journal bushes and dynamically balanced rotating components to ensure long life. Genvik openwell submersible prime movers are squirrel cage water filled and water-cooled rewindable type made of a special waterproof pure electrolytic copper insulated with synthetic film material. All single-phase motors are incorporated with thermal overload protector. Genvik openwell submersible pumps are produced in accordance with ISO 9001 standards.



### MODEL IDENTIFICATION



### FEATURES

- Designed for wide voltage fluctuations
- Water lubricated thrust & journal bearings
- Highly versatile and reliable
- In built - thermal over load protector
- Can be easily dismantled and repaired

### APPLICATIONS

- Domestic usage
- Agriculture
- Drip and Sprinkler irrigations
- Farms and Gardens
- Fountains

# TECHNICAL DATA

## TECHNICAL DATA

Power Range	TOH - Series - 0.37kW - 1.5kW Single phase, 0.75kW - 11kW Three phase TOV - Series - 0.55kW - 2.2kW Single phase, 0.75kW - 37kW Three phase
Version	Single phase 200-220V, Three phase 380 - 415V, A.C.
Frequency	50 Hz
Speed	2900 rpm
Degree of Protection	IP 58
Duty Type	S1 (Continuous)
Maximum Starts per hour	6 times
Direction of rotation	Clockwise from driving end
Method of starting	Single phase CSCR & CSR, Three phase DOL - 0.75kW - 5.5kW, SD - 3.5kW - 37kW

## OPERATING DATA

Maximum Head	320 metres
Maximum Flow rate	215m <sup>3</sup> /h
Nominal outlet size in inch	1, 1½, 2, 2½, 3, 4 & 6
Maximum operating pressure	30 bar
Maximum Liquid temperature	33°C
Maximum Ambient temperature	40°C

## MATERIALS OF CONSTRUCTION

Part Name	Material
Pump casing	Cast iron
Impeller	Cast iron / Stainless steel
Stator shell	Stainless steel 304 / Mild steel
Shaft	Stainless steel 410
Journal bush	Leaded bronze
Thrust assembly	Leaded bronze & Compostos / S.S. 420 with Graphite Carbon

# GENERAL INFORMATION

## PUMPED LIQUIDS

Pure, cold, fresh water without abrasive particles having the following characteristics.

pH value	6.5 to 8.5
Hardness (Drinking Water)	300 maximum
Temperature	33°C maximum
Specific Gravity	1.004 maximum
Chlorine ion Density	500 ppm maximum
Allowable solids	3000 ppm maximum
Allowable sand	25 grams / m <sup>3</sup> maximum
Viscosity	1.75 x 10 <sup>6</sup> m <sup>2</sup> maximum
Turbidity	50 ppm silica scale maximum

The Given details / drawings / specifications are subject to change without prior notice.

### KOH - SERIES Single and Three Phase

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES						
	kW	HP		8	10	12	14	16	18	20
				Discharge in LPM						
KOH-7/05S	0.37	0.5	1		179	180	149	131	106	60

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES													
	kW	HP		8	10	12	14	16	18	20	22	24	26	28	30	32	34
				Discharge in LPM													
KOH-11-10S	0.75	1.0	1				222	220	190	193	181	155	126	100	60		
KOH-13-10S	0.75	1.0	1	230	224	222	213	211	210	190	150	100	40				
KOH-7-10S	0.75	1.0	1	159	157	156	152	145	139	132	123	114	108	81	73	37	16

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES										
	kW	HP		8	10	12	14	16	18					
				Discharge in LPM										
KOH-16-15S	1.1	1.5	1½			360		345		330		307		261
KOH-22-15S	1.1	1.5	1½			438		413		348		324		197
KOH-25-15S	1.1	1.5	2	480		420		360		270		204 (15.2m)		

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES											
	kW	HP		8	10	12	14	16	18	20	22	24	26	28	30
				Discharge in LPM											
KOH-16-20S	1.5	2.0	1½						309	303	294	270	233	210	120
KOH-27-20S	1.5	2.0	1½			484	483	420	390	330	270	240 (23m)			
KOH-30-20S	1.5	2.0	2		601	570	522	480	408	330					
KOH-29-20S	1.5	2.0	2½	598	587	498	373	283							

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES											
	kW	HP		90	120	150	180	240	300	360	420	480	540	600	660
				Discharge in LPM											
KOH-13-30T	2.2	3.0	1½	38	36	35	33	27	20						
KOH-26-30T	2.2	3.0	2					26	24	22	20	18	12		
KOH-36-30T	2.2	3.0	2							22	21	20	19	17	12

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES													
	kW	HP		600	660	720	780	840	900	960	1020	1080	1140	1200	1260	1320	1380
				Discharge in LPM													
KOH-43-30T	2.2	3.0	2½	17	16	15	14	13	12	8							
KOH-56-30T	2.2	3.0	3			12	11.5	11	10.7	10.5	10	9.5	9	8.5	8	7	6

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### KOH - SERIES Single and Three Phase

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES															
				300	360	420	480	540	600	660	720	780	840	900	960	1020	1080	1140	
	kW	HP		Discharge in LPM															
KOH-29-50T	3.7	5.0	2	42	41	40	38	36	30	20									
KOH-30-50T	3.7	5.0	2	36	33	31	29	27	22	18									
KOH-46-50T	3.7	5.0	2					30	29.3	28.4	27	26.2	25	23.5	22	20.2			
KOH-61-50T	3.7	5.0	2½							26	25	24	23	22.5	22	21	20	17	

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES															
				780	900	1020	1080	1140	1200	1260	1320	1380	1440	1550	1560	1620	1680	1800	
	kW	HP		Discharge in LPM															
KOH-79-50T	3.7	5.0	3	20	19	18	17	16.5	16	15	14	13.5	13	12	11	10			
KOH-86-50T	3.7	5.0	4					15.5	14.5	14	13.5	13	12	11.5	11	10	9	7	

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES															
				300	360	420	480	540	600	660	720	780	840	900	960				
	kW	HP		Discharge in LPM															
KOH-44-75T	5.5	7.5	2	50	49	48	47	45	42	40	37	35	31	27	24				
KOH-54-75T	5.5	7.5	2				39	37.5	36.5	35.5	34.5	34	31	30	19				

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES																	
				660	720	780	900	1020	1080	1140	1200	1260	1320	1380	1440	1550	1560	1620	1680	1800	2040
	kW	HP		Discharge in LPM																	
KOH-72-75T	5.5	7.5	2½	33.5	33	32.5	30.5	28	27	25.5	23.5	20	16								
KOH-90-75T	5.5	7.5	3				29	28	27.5	27	26	25	24	23	22.5	22	21	20	19	17	12
KOH-100-75T	5.5	7.5	4								21.5	21	20.5	20	19.5	19	18.5	18	15	12	

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES																	
				300	360	420	480	540	600	660	720	780	900	1020	1080	1140	1200	1260	1320	1380	
	kW	HP		Discharge in LPM																	
KOH-37-100T	7.5	10	2	56	55	53	52	49	47	45	42	37	32	22							
KOH-43-100T	7.5	10	2					47.5	47	46	45	44	41	24							
KOH-63-100T	7.5	10	2½							38	37	36	34	32	31.5	31	30	28	26	24	

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES																	
				300	360	420	480	540	600	660	720	780	900	1020	1080	1140	1200	1320	1440	1550	1620
	kW	HP		Discharge in LPM																	
KOH-39-125T	9.3	12.5	2	76	75	74	73	72	71	69	64	60	43								
KOH-48-125T	9.3	12.5	2										53	51	50	48	47	30			
KOH-79-125T	9.3	12.5	2½										41	39	38.5	38	36	34	33	21	

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### KOH - SERIES Single and Three Phase

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES								
	kW	HP		900	1020	1080	1140	1200	1320	1440	1550	1620
				Discharge in LPM								
KOH-54-150T	11	15	2	61	59	58	56	40				
KOH-75-150T	11	15	2½	46	45	44	43	42	40	37	34	22

PUMP MODEL	Motor Power		Pump outlet size in inch	Total Head in METRES									
	kW	HP		1440	1550	1620	1680	1800	1920	2040	2280	2440	2640
				Discharge in LPM									
KOH-115-150T	11	15	4	33	32	30.5	30	29	28.5	28	25	22	16

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### KOV - SERIES Single and Three Phase

PUMP MODEL	Motor Power		No of Stage	Pump outlet size in inch	Total Head in METRES								
	kW	HP			40	50	60	70	80	90	100	110	120
					Discharge in LPM								
KOV-04-05S	0.75	1.0	5	1	41	40	39	37	34	31	24	21	15
KOV-04-07S	1.1	1.5	7	1½	57	56	53.5	52	47.5	42	26	20	19
KOV-04-09S	1.5	2.0	9	1½	74	72	69	66	60	52	46	37	27

PUMP MODEL	Motor Power		No of Stage	Pump outlet size in inch	Total Head in METRES											
	kW	HP			30	60	90	120	150	180	210	240	270	300	330	360
					Discharge in LPM											
KOV-10-30T	2.2	3.0	3	2	57	56	54	53	49	43	37	30	20			
KOV-14-40T	3.0	4.0	3	2					49	47	44	39	34	28	21	
KOV-10-40T	3.0	4.0	5	2			87	86	78	68	56	41	32 (258LPM)			
KOV-14-50T	3.7	5.0	4	2					64	61	55	50	43	36	27	
KOV-10-50T	3.7	5.0	6	2			110	107	99	88	72	55	38 (294LPM)			
KOV-14-60T	4.5	6.0	5	2					84	82	79	73	66	59	49	38
KOV-10-60T	4.5	6.0	7	2			132	126	118	103	90	69	48			
KOV-14-75T	5.5	7.5	6	2					106	104	98	90	80	72	57	44
KOV-10-75T	5.5	7.5	9	2			164	158	146	130	108	83	58			
KOV-10-100T	7.5	10	11	2			200	192	180	160	135	104	72			
KOV-10-125T	9.3	12.5	13	2			240	232	216	194	166	133	93			
KOV-10-150T	11	15	16	2			300	292	278	258	232	202	160	115		
KOV-10-200T	15	20	16	2			300	290	280	266	246	226	212	186	158	125

PUMP MODEL	Motor Power		No of Stage	Pump outlet size in inch	Total Head in METRES											
	kW	HP			300	360	420	480	540	600	660	720	780	840	900	960
					Discharge in LPM											
KOV-29-30T	2.2	3.0	2	2½	26	24	22	20	17	13						
KOV-43-50T	3.7	5.0	1	2½					24.5	23	22	20	19	17	15	12
KOV-27-50T	3.7	5.0	2	2½	38	37	35	32	30	26	19					
KOV-34-60T	4.5	6.0	2	2½		41	37	35	33	30	25	20				
KOV-41-75T	5.5	7.5	2	2½		47	44	43	42	39	35	33	29			
KOV-29-75T	5.5	7.5	3	2½		55	52	48	42	38	28			27	24	
KOV-25-75T	5.5	7.5	5	2½	58	63	55	48	34							
KOV-41-100T	7.5	10	2	2½	69					50	47.5	45	42.5			
KOV-40-100T	7.5	10	3	2½			57	56	52	48	42	36	28	40	36	24

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### KOV - SERIES Single and Three Phase

PUMP MODEL	Motor Power		No of Stage	Pump outlet size in inch	Total Head in METRES													
	kW	HP			240	300	360	420	480	540	600	660	720	780	840	900	960	1020
					Discharge in LPM													
KOV-29-100T	7.5	10	4	2½		81	77	70	65	58	50	42	38					
KOV-25-100T	7.5	10	6	2½		104	97	90	80	68	53							
KOV-40-125T	9.3	12.5	3	2½		67	65	64	63	62	60	57	53	49	45	40	33	
KOV-28-125T	9.3	12.5	4	2½			80	76	72	65	58	50	40					
KOV-31-125T	9.3	12.5	6	2½		112	108	96	85	73	58	50						
KOV-45-150T	11	15	3	2½					74	71	69	64	59	54	49	36		
KOV-44-150T	11	15	4	2½				78	76	72	68	64	58	52	38			
KOV-30-150T	11	15	6	2½			119	110	105	96	83	70	60					
KOV-46-200T	15	20	4	2½						95	90	85	80	75	70	60	54	44
KOV-45-200T	15	20	6	2½	122	119	116	114	113	110	108	103	98	91	81	71	60	

PUMP MODEL	Motor Power		No of Stage	Pump outlet size in inch	Total Head in METRES										
	kW	HP			240	300	360	420	480	540	600	660	720	780	840
					Discharge in LPM										
KOV-43-250T	18.5	25	8	3	139	137	134	132	129	124	117	109	100	90	78
KOV-44-250T	18.5	25	6	3	131	129	126	123	122	118	114	109	105	95	85
KOV-41-300T	22	30	8	3	170	165	162	160	157	153	149	142	134	122	110
KOV-40-300T	22	30	10	3	184	179	175	172	168	162	154	145	133	117	103
KOV-39-350T	26	35	12	3	212	210	207	202	198	189	180	167	153	136	119
KOV-44-400T	30	40	10	3	220	210	207	203	194	191	180	176	160	150	140
KOV-42-400T	30	40	13	3	270	260	255	250	240	230	210	190	172	155	122

PUMP MODEL	Motor Power		No of Stage	Pump outlet size in inch	Total Head in METRES												
	kW	HP			600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040
					Discharge in LPM												
KOV-87-150T	11	15	2	4	43	41	40	39	38	37	36	35.5	33	31	27	23	18
KOV-100-200T	15	20	3	4	61	60	59	57	56	53	51	49	46	44	41	35	29
KOV-84-250T	18.5	25	4	4	69	67	65	63	61	58	54	51	47	43	36		
KOV-104-300T	22	30	5	4	82	80	78	75	72	70	67	64	62	58	53		
KOV-88-350T	26	35	6	4	100	98	91	89	84	80	77	71	65	58	48		
KOV-88-400T	30	40	7	4	120	115	111	107	100	95	90	82	78	70	60		

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### KOV - SERIES Single and Three Phase

PUMP MODEL	Motor Power		No of Stage	Pump outlet size in inch	Total Head in METRES														
	kW	HP			1260	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760	2880	3000	3120	3240
					Discharge in LPM														
KOV-110-250T	18.5	25	2	6	42	38	37	36	35	34	33	32	31.5	30	28	25	23	20	
KOV-110-300T	22	30	2	6	50	45	44	42.5	41.5	40	39	37.5	36	35	33.5	32	30	28	25.5
KOV-160-350T	26	35	3	6	68	61	59	65	56	54	52	49	47	44	40	38	36	33	29
KOV-160-500T	37	50	3	6	89	84	82	80	78	76	74	72	70	67	65	62	59	56	52

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**ACNAL INDUSTRIES PVT LTD.,**

No. 66/2, Athipalayam Road, Chinnavedampatti, Coimbatore - 641 049, INDIA

Phone : +91 84894 22000, E-mail : [sales@genvikpumps.com](mailto:sales@genvikpumps.com)

website : [www.genvikpumps.com](http://www.genvikpumps.com)