



330 LPM - OUTLET SIZE : 65 mm 2900 RPM																		
Tie Rod Design Model	Tube type Design Model	Stage	Motor Rating		Pipe Size in mm	M ³ /hr LPM	Discharge											
			HP	kW			10.8	13.8	16.8	19.8	22.8	25.8	28.8					
VLBST1M4/33/2.0/5	VLBSB1M4/33/2.0/5	5	2.0	1.5	65	180	230	280	330	380	430	480						
VLBST1M4/33/3.0/7	VLBSB1M4/33/3.0/7	7	3.0	2.2	65	25	23	21	18	15	12	8						
VLBST1M4/33/4.0/9	VLBSB1M4/33/4.0/9	9	4.0	3.0	65	34	31	28	25	21	16	10						
VLBST1M4/33/5.0/11	VLBSB1M4/33/5.0/11	11	5.0	3.7	65	43	40	36	32	26	20	13						
VLBST1M4/33/6.0/14	VLBSB1M4/33/6.0/14	14	6.0	4.5	65	53	49	44	38	32	24	15						
VLBST1M4/33/7.5/17	VLBSB1M4/33/7.5/17	17	7.5	5.5	65	67	62	56	49	40	30	19						
						81	75	67	59	49	37	23						

TIEROD DESIGN - ALL THESE MODELS FOR ALL LPM SERIES ARE AVAILABLE IN 3 PHASE ALSO WITH CODE PREFIX AS 3
 (Example: VLBST1R4/25/22 is Single phase and VLBST3R4/25/22 is Three phase)

TUBE TYPE DESIGN - ALL THESE MODELS FOR ALL LPM SERIES ARE AVAILABLE IN 3 PHASE ALSO WITH CODE PREFIX AS 3
 (Example: VLBSB1R4/25/22 is Single phase and VLBSB3R4/25/22 is Three phase)

Note :

- Due to continuous product developments, the data mentioned in the catalogue may change without any prior notice.
- Performance applicable to liquid specific gravity 1 and viscosity as of water
- The performance mentioned in this booklet is from standard test condition at the pump lab and may differ at field conditions



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V4 Submersible Pumpsets Tierod Design & Tube Type Design Models Catalogue



VILA[®]

Plot No. B 63,
 Kagal Hatkanangale, Five Star MIDC,
 Karveer, Kolhapur,
 Maharashtra - 416 216



salesho@vila.co.in
 Customer Care : 0230 - 2991134
 www.laxmipumpsgroup.com
 www.vila.co.in
 www.laxmioilengines.com





TECHNICAL FEATURES

MOTOR		PUMP	
Motor Shaft	Stainless Steel AISI 410	Pump Shaft	Stainless Steel AISI 410
Stamping	Silicon Steel	Suction Housing	CI IS 210, FG 200
Casting Parts	Cast Iron CI IS 210 FG 200	Impeller	Glass Filled Engg. Polymer
Thrust bearing	Carbon V/S Stainless Steel	Diffuser	Glass Filled Engg. Polymer
Copper	EC grade Minimum 99.90%	Sleeve	AISI 410 with Hard chrome Plating
Voltage Range	160 to 250 V (1 phase)		
	200 to 440 V (3 phase)		

SALIENT FEATURES

- + Wide range of pumps available with various LPM series to cater customer requirements.
- + Options are available for high head or high discharge in each rating to fulfil various needs.
- + Suitable in wide voltage variation with greater performance even in low voltage.
- + Stampings are used of high quality electric grade for better efficiency.
- + Winding wire with high quality insulation to avoid chance of winding burn even in low or high voltage working.
- + Whole range is with EC grade Copper brazed rotor for trouble free operations.
- + Fully Stainless steel shaft hence no chance of corrosion.
- + Very low maintenance due to high quality carbon Vs steel combination of thrust bearing with leaded tin bronze made bush bearing.
- + Shaft & bushes are having mirror surface finish achieved by auto burnishing machine for very long life.
- + Diffuser Bowls and impellers are made of glass filled engineering polymer, virgin PPO material for best wear resistance & strength for long maintenance free service and consistency in performance.
- + All rotating parts are dynamically balanced for low noise, vibration and longer life.
- + Internal surfaces of the all parts are protected from rusting with special coating for longer life.
- + All fasteners are used of stainless steel only for easy maintenance & very long life.

APPLICATIONS

- + Domestic & Community water supply
- + High Rise Buildings, Malls, Hospitals and Commercial Complex
- + Industrial Application
- + Construction sites
- + Agricultural usage
- + Solar Pumping systems
- + Farm applications
- + Ground water supply
- + Fire fighting Application
- + Sprinkler System
- + Pressure Booster Systems

PERFORMANCE CHART

V4 (100mm) 4" SUBMERSIBLE PUMP SETS - RADIAL FLOW

25 LPM - OUTLET SIZE : 32 mm 2900 RPM											
TIEROD DESIGN	TUBE TYPE DESIGN	Stage	Motor Rating		Pipe Size in mm	Discharge					
			HP	kW		M ³ /hr LPM	0.3	0.9	1.5	2.1	2.7
VLBST1R4/25/0.5/8	VLBSB1R4/25/0.5/8	8	0.5	0.37	32	TOTAL HEAD IN METERS	5	15	25	35	45
VLBST1R4/25/0.75/14	VLBSB1R4/25/0.75/14	14	0.75	0.55	32		55	49	41	33	21
VLBST1R4/25/1.0/16	VLBSB1R4/25/1.0/16	16	1.0	0.75	32		96	85	72	56	37
VLBST1R4/25/1.0/18	VLBSB1R4/25/1.0/18	18	1.0	0.75	32		109	97	82	64	42
VLBST1R4/25/1.5/22	VLBSB1R4/25/1.5/22	22	1.5	1.1	32		123	109	92	72	47
VLBST1R4/25/1.5/24	VLBSB1R4/25/1.5/24	24	1.5	1.1	32		150	133	112	88	57
VLBST1R4/25/1.5/26	VLBSB1R4/25/1.5/26	26	1.5	1.1	32		163	145	122	96	62
VLBST1R4/25/2.0/30	VLBSB1R4/25/2.0/30	30	2.0	1.5	32		177	157	132	104	67
VLBST1R4/25/2.0/32	VLBSB1R4/25/2.0/32	32	2.0	1.5	32		204	181	153	120	78
VLBST1R4/25/2.0/32	VLBSB1R4/25/2.0/32	32	2.0	1.5	32		217	193	163	127	83
VLBST1R4/25/3.0/46	VLBSB1R4/25/3.0/46	46	3.0	2.2	32		312	277	233	183	118

30 LPM - OUTLET SIZE : 32 mm 2900 RPM											
Tie Rod Design Model	Tube Type Design Model	Stage	Motor Rating		Pipe Size in mm	Discharge					
			HP	kW		M ³ /hr LPM	0.6	1.2	1.8	2.4	3.0
VLBST1R4/3/0.5/7	VLBSB1R4/3/0.5/7	7	0.5	0.37	32	TOTAL HEAD IN METERS	10	20	30	40	50
VLBST1R4/3/0.75/12	VLBSB1R4/3/0.75/12	12	0.75	0.55	32		51	46	38	28	15
VLBST1R4/3/1.0/14	VLBSB1R4/3/1.0/14	14	1.0	0.75	32		87	78	65	47	25
VLBST1R4/3/1.0/15	VLBSB1R4/3/1.0/15	15	1.0	0.75	32		102	91	75	54	29
VLBST1R4/3/1.5/20	VLBSB1R4/3/1.5/20	20	1.5	1.1	32		109	97	81	58	31
VLBST1R4/3/1.5/24	VLBSB1R4/3/1.5/24	24	1.5	1.1	32		145	129	107	77	41
VLBST1R4/3/1.5/26	VLBSB1R4/3/1.5/26	26	1.5	1.1	32		174	155	128	92	49
VLBST1R4/3/2.0/28	VLBSB1R4/3/2.0/28	28	2.0	1.5	32		188	167	139	100	53
VLBST1R4/3/2.0/30	VLBSB1R4/3/2.0/30	30	2.0	1.5	32		203	180	149	107	57
VLBST1R4/3/2.0/30	VLBSB1R4/3/2.0/30	30	2.0	1.5	32		217	193	160	115	61
VLBST1R4/3/3.0/38	VLBSB1R4/3/3.0/38	38	3.0	2.2	32		275	244	202	145	77
VLBST1R4/3/3.0/42	VLBSB1R4/3/3.0/42	42	3.0	2.2	32		303	270	224	161	85

35 LPM - OUTLET SIZE : 32 mm 2900 RPM											
Tie Rod Design Model	Tube Type Design Model	Stage	Motor Rating		Pipe Size in mm	Discharge					
			HP	kW		M ³ /hr LPM	0.9	1.5	2.1	2.7	3.3
VLBST1R4/35/0.5/5	VLBSB1R4/35/0.5/5	5	0.5	0.37	32	TOTAL HEAD IN METERS	15	25	35	45	65
VLBST1R4/35/0.75/10	VLBSB1R4/35/0.75/10	10	0.75	0.55	32		39	34	28	22	14
VLBST1R4/35/1.0/12	VLBSB1R4/35/1.0/12	12	1.0	0.75	32		76	68	55	42	26
VLBST1R4/35/1.5/14	VLBSB1R4/35/1.5/14	14	1.5	1.1	32		91	81	66	50	31
VLBST1R4/35/1.5/17	VLBSB1R4/35/1.5/17	17	1.5	1.1	32		106	94	77	58	36
VLBST1R4/35/2.0/20	VLBSB1R4/35/2.0/20	20	2.0	1.5	32		129	114	93	71	44
VLBST1R4/35/2.0/24	VLBSB1R4/35/2.0/24	24	2.0	1.5	32		151	134	109	83	51
VLBST1R4/35/2.0/26	VLBSB1R4/35/2.0/26	26	2.0	1.5	32		181	161	131	99	61
VLBST1R4/35/2.0/26	VLBSB1R4/35/2.0/26	26	2.0	1.5	32		196	174	141	108	66
VLBST1R4/35/3.0/28	VLBSB1R4/35/3.0/28	28	3.0	2.2	32		211	187	152	116	71
VLBST1R4/35/3.0/30	VLBSB1R4/35/3.0/30	30	3.0	2.2	32		226	201	163	124	76
VLBST1R4/35/3.0/32	VLBSB1R4/35/3.0/32	32	3.0	2.2	32		242	214	174	132	81

50 LPM - OUTLET SIZE : 32 mm 2900 RPM

Tie Rod Design Model	Tube Type Design Model	Stage	Motor Rating		Pipe Size in mm	M ³ /hr LPM	Discharge						
			HP	kW			0.6	1.8	2.4	3.0	3.6	4.2	5.4
VLBST1R4/5/0.5/6	VLBSB1R4/5/0.5/6	6	0.5	0.37	32	44	39	36	33	29	25	15	
VLBST1R4/5/0.75/8	VLBSB1R4/5/0.75/8	8	0.75	0.55	32	58	51	48	43	39	33	19	
VLBST1R4/5/1.0/10	VLBSB1R4/5/1.0/10	10	1.0	0.75	32	72	64	60	54	48	41	24	
VLBST1R4/5/1.5/15	VLBSB1R4/5/1.5/15	15	1.5	1.1	32	108	96	89	81	72	61	36	
VLBST1R4/5/2.0/20	VLBSB1R4/5/2.0/20	20	2.0	1.5	32	143	127	118	107	95	81	47	
VLBST1R4/5/3.0/25	VLBSB1R4/5/3.0/25	25	3.0	2.2	32	179	159	147	134	119	101	59	
VLBST1R4/5/4.0/32	VLBSB1R4/5/4.0/32	32	4.0	3.0	32	229	203	188	171	151	129	75	
VLBST1R4/5/5.0/42	VLBSB1R4/5/5.0/42	42	5.0	3.7	32	299	266	247	224	198	169	98	
VLBST1R4/5/5.0/45	VLBSB1R4/5/5.0/45	45	5.0	3.7	32	321	285	264	240	213	181	105	

60 LPM - OUTLET SIZE : 32 mm 2900 RPM

Tie Rod Design Model	Tube Type Design Model	Stage	Motor Rating		Pipe Size in mm	M ³ /hr LPM	Discharge						
			HP	kW			1.8	2.4	3.0	3.6	4.2	4.8	5.4
VLBST1R4/6/0.75/6	VLBSB1R4/6/0.75/6	6	0.75	0.55	32	45	43	39	35	29	24	17	
VLBST1R4/6/1.0/8	VLBSB1R4/6/1.0/8	8	1.0	0.75	32	60	57	52	46	39	31	23	
VLBST1R4/6/1.5/10	VLBSB1R4/6/1.5/10	10	1.5	1.1	32	75	71	65	57	48	39	28	
VLBST1R4/6/1.5/12	VLBSB1R4/6/1.5/12	12	1.5	1.1	32	90	85	78	68	57	47	33	
VLBST1R4/6/2.0/15	VLBSB1R4/6/2.0/15	15	2.0	1.5	32	112	106	97	85	72	58	42	
VLBST1R4/6/3.0/18	VLBSB1R4/6/3.0/18	18	3.0	2.2	32	134	127	116	102	86	69	50	
VLBST1R4/6/3.0/20	VLBSB1R4/6/3.0/20	20	3.0	2.2	32	149	141	129	113	95	77	55	
VLBST1R4/6/3.0/22	VLBSB1R4/6/3.0/22	22	3.0	2.2	32	164	155	142	124	104	85	60	
VLBST1R4/6/3.0/24	VLBSB1R4/6/3.0/24	24	3.0	2.2	32	179	169	155	135	114	92	66	
VLBST1R4/6/4.0/30	VLBSB1R4/6/4.0/30	30	4.0	3.0	32	223	211	193	169	142	115	82	
VLBST1R4/6/5.0/38	VLBSB1R4/6/5.0/38	38	5.0	3.7	32	282	267	244	214	180	145	104	

70 LPM - OUTLET SIZE : 38 mm 2900 RPM

Tie Rod Design Model	Tube Type Design Model	Stage	Motor Rating		Pipe Size in mm	M ³ /hr LPM	Discharge						
			HP	kW			2.4	3.0	3.6	4.2	4.8	5.4	6.0
VLBST1R4/7/0.75/5	VLBSB1R4/7/0.75/5	5	0.75	0.55	38	35	32	30	27	24	20	17	
VLBST1R4/7/1.0/6	VLBSB1R4/7/1.0/6	6	1.0	0.75	38	41	39	36	32	28	24	20	
VLBST1R4/7/1.5/8	VLBSB1R4/7/1.5/8	8	1.5	1.1	38	55	51	47	42	37	31	26	
VLBST1R4/7/1.5/11	VLBSB1R4/7/1.5/11	11	1.5	1.1	38	75	70	64	58	51	43	35	
VLBST1R4/7/2.0/12	VLBSB1R4/7/2.0/12	12	2.0	1.5	38	81	76	70	63	55	47	38	
VLBST1R4/7/2.0/15	VLBSB1R4/7/2.0/15	15	2.0	1.5	38	102	95	87	78	69	58	48	
VLBST1R4/7/3.0/17	VLBSB1R4/7/3.0/17	17	3.0	2.2	38	115	107	99	89	78	66	54	
VLBST1R4/7/3.0/19	VLBSB1R4/7/3.0/19	19	3.0	2.2	38	128	120	110	99	87	73	60	
VLBST1R4/7/3.0/23	VLBSB1R4/7/3.0/23	23	3.0	2.2	38	155	145	133	119	105	88	72	
VLBST1R4/7/4.0/26	VLBSB1R4/7/4.0/26	26	4.0	3.0	38	175	164	151	135	118	100	82	
VLBST1R4/7/4.0/28	VLBSB1R4/7/4.0/28	28	4.0	3.0	38	189	176	162	145	127	107	88	
VLBST1R4/7/5.0/30	VLBSB1R4/7/5.0/30	30	5.0	3.7	38	202	189	174	156	136	115	94	
VLBST1R4/7/5.0/32	VLBSB1R4/7/5.0/32	32	5.0	3.7	38	215	201	185	166	145	123	100	
VLBST1R4/7/5.0/36	VLBSB1R4/7/5.0/36	36	5.0	3.7	38	242	226	208	186	163	138	113	
VLBST1R4/7/6.0/42	VLBSB1R4/7/6.0/42	42	6.0	4.5	38	282	264	243	217	190	161	131	
VLBST1R4/7/7.5/50	VLBSB1R4/7/7.5/50	50	7.5	5.5	38	336	314	289	259	226	191	156	

120 PLM - OUTLET SIZE : 38 mm 2900 RPM

Tie Rod Design Model	Tube Type Design Model	Stage	Motor Rating		Pipe Size in mm	M ³ /hr LPM	Discharge						
			HP	kW			3.0	4.8	6.0	7.2	8.4	9.6	11.4
VLBST1R4/12/1.0/5	VLBSB1R4/12/1.0/5	5	1.0	0.75	38	34	31	29	26	23	19	12	
VLBST1R4/12/1.5/7	VLBSB1R4/12/1.5/7	7	1.5	1.1	38	47	43	40	36	31	26	16	
VLBST1R4/12/2.0/10	VLBSB1R4/12/2.0/10	10	2.0	1.5	38	66	61	57	51	45	36	22	
VLBST1R4/12/3.0/12	VLBSB1R4/12/3.0/12	12	3.0	2.2	38	79	71	68	61	53	43	26	
VLBST1R4/12/3.0/15	VLBSB1R4/12/3.0/15	15	3.0	2.2	38	99	91	85	76	66	54	33	
VLBST1R4/12/4.0/19	VLBSB1R4/12/4.0/19	19	4.0	3.0	38	125	115	107	96	84	68	41	
VLBST1R4/12/5.0/22	VLBSB1R4/12/5.0/22	22	5.0	3.7	38	144	133	124	111	97	78	47	
VLBST1R4/12/5.0/25	VLBSB1R4/12/5.0/25	25	5.0	3.7	38	164	151	141	126	110	89	54	
VLBST1R4/12/6.0/30	VLBSB1R4/12/6.0/30	30	6.0	4.5	38	196	181	169	151	132	106	64	
VLBST1R4/12/7.5/35	VLBSB1R4/12/7.5/35	35	7.5	5.5	38	229	211	197	176	153	124	75	

170 LPM - OUTLET SIZE : 50 mm 2900 RPM

Tie Rod Design Model	Tube Type Design Model	Stage	Motor Rating		Pipe Size in mm	M ³ /hr LPM	Discharge						
			HP	kW			6.6	7.8	9.0	10.2	11.4	12.6	13.8
VLBST1R4/17/1.5/6	VLBSB1R4/17/1.5/6	6	1.5	1.1	50	31	29	26	23	19	15	12	
VLBST1R4/17/2.0/8	VLBSB1R4/17/2.0/8	8	2.0	1.5	50	41	38	34	30	25	20	16	
VLBST1R4/17/3.0/10	VLBSB1R4/17/3.0/10	10	3.0	2.2	50	51	47	42	37	31	25	20	
VLBST1R4/17/3.0/12	VLBSB1R4/17/3.0/12	12	3.0	2.2	50	61	56	50	44	37	30	24	
VLBST1R4/17/4.0/16	VLBSB1R4/17/4.0/16	16	4.0	3.0	50	81	75	67	59	49	39	31	
VLBST1R4/17/5.0/20	VLBSB1R4/17/5.0/20	20	5.0	3.7	50	101	93	83	73	61	49	39	
VLBST1R4/17/6.0/24	VLBSB1R4/17/6.0/24	24	6.0	4.5	50	121	111	99	87	73	59	47	
VLBST1R4/17/7.5/30	VLBSB1R4/17/7.5/30	30	7.5	5.5	50	151	139	124	109	91	73	58	

V4 (100mm) 4" SUBMERSIBLE PUMP SETS MIXED FLOW

300 LPM - OUTLET SIZE : 65 mm 2900 RPM

Tie Rod Design Model	Tube Type Design Model	Stage	Motor Rating		Pipe Size in mm	M ³ /hr LPM	Discharge						
			HP	kW			9.0	12.0	15.0	18.0	21.0	24.0	27.0
VLBST1M4/30/2.0/5	VLBSB1M4/30/2.0/5	5	2.0	1.5	65	24	21	19	16	13	9	5	
VLBST1M4/30/3.0/7	VLBSB1M4/30/3.0/7	7	3.0	2.2	65	33	29	26	22	17	12	7	
VLBST1M4/30/3.0/8	VLBSB1M4/30/3.0/8	8	3.0	2.2	65	37	33	30	25	19	13	8	
VLBST1M4/30/3.0/9	VLBSB1M430/3.0/9	9	3.0	2.2	65	42	37	33	28	22	15	9	
VLBST1M4/30/4.0/11	VLBSB1M4/30/4.0/11	11	4.0	3.0	65	51	46	41	33	26	18	11	
VLBST1M4/30/5.0/13	VLBSB1M4/30/5.0/13	13	5.0	3.7	65	60	54	48	39	31	21	12	
VLBST1M4/30/5.0/14	VLBSB1M4/30/5.0/14	14	5.0	3.7	65	64	58	51	42	33	23	13	
VLBST1M4/30/6.0/16	VLBSB1M4/30/6.0/16	16	6.0	4.5	65	73	66	59	48	38	26	15	
VLBST1M4/30/7.5/20	VLBSB1M4/30/7.5/20	20	7.5	5.5	65	91	82	73	60	47	32	18	