



C.R.I. PUMPS

Pumping trust... Worldwide.



- More Durability and Hygiene.
- High Operating Efficiency.
- Motor designed with a High Cooling Effect.
- Designed for Wide Voltage Operation.
- Sturdy and Compact.



Vision, Mission and Values

To be the industry leader providing best-in-class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **Commitment, Reliability and Innovation.**



ABOUT C.R.I.

C.R.I. ranks high among the world's fastest-growing fluid management solutions provider with a wide global presence. C.R.I. offers Pumps, Motors, IoT Driven Pumps, IoT Drives & Controllers, Pipes, Wires & Cables, Solar Pumps and Controllers to meet the pumping needs of its wide customer base.



60+ Years
of Engineering
Expertise



120+ Countries
have our strong
global presence



21+
Manufacturing Units
around the World



30000+ Outlets
to serve our
Customers



9000+
Products for various
applications



1500+
Service Centres to
support our Customers



16 Times
EEPC Award Winner
for Export Excellence



8 Times
NEC Award Winner
for Energy Savings



**Fludyn Advanced Technology
Centre** Recognized by Ministry of
Science & Technology, Govt. of India.

C.R.I. PIPES - C.R.I.'s state-of-the-art manufacturing facility at Ahmedabad & Hosur produces all kinds of best quality PVC, UPVC, CPVC Pipes & Fittings. The plants are empowered with fully automated machines that control the manufacturing process.

C.R.I. WIRES & CABLES - C.R.I.'s Wires & Cables are manufactured at its state-of-the-art manufacturing facility. The systems at the manufacturing facility are ISO-9001 certified and the products manufactured to meet the relevant standards.

C.R.I. SOLAR PUMPING SYSTEM - C.R.I. manufactures sustainable Solar Pumping Systems designed to work with best in class efficiency. With this C.R.I. emphasizes its focus towards greener technology.



100mm Borewell Submersible Pumpset - GENIE Series

C.R.I. Genie 100 mm Borewell submersible 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.

SALIENT FEATURES

- More durability and hygiene
- High operating efficiency
- Specially designed thrust bearing to withstand high axial thrust load
- Extremely hardwearing water lubricated bearing
- Thread type motor construction ensures rigidity & service feasibility
- Designed for wide voltage operation
- Additional intermediate bearing in higher stage pumps.

APPLICATION

- Rural water supply
- Sprinkler system
- Pressure boosting units
- Fire fighting system
- Industrial and mining application
- Fountains.

SPECIFICATIONS

100MM GENIE

Power range	0.37 kW - 5.5 kW (0.5 HP - 7.5 HP)
Speed	2850 RPM
Version	Single phase 220V; Three phase 380V, 50Hz, A.C. Supply
Maximum total head	568 Metre
Maximum flow rate	7 LPS (25.20 m ³ /hr)
Maximum outer diameter	98 mm
Thrust load	0.37kW - 0.75kW - 650 LBS; 1.1kW - 1.5kW - 1000 LBS; 2.2kW - 7.5kW - 1500 LBS
Minimum cooling flow along the motor	0.15 m/sec
Method of starting	Capacitor Start Capacitor Run(CSCR) / Direct Online(DOL)
Maximum starts per hour	20 times
Nominal outlet size	32, 40, 50 & 65 mm

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts

Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

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	Star Rating
						0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	
CRI4F-1F/0.5/07	0.37	0.5	7	32	Head in Metres	59	55	52	47	40	31	17		
CRI4F-1F/0.75/11*	0.55	0.75	11	32		88	83	77	69	60	40	18		3
CRI4F-1F/1/16*	0.75	1	16	32		129	125	121	106	84	56	34	18	2
CRI4F-1F/1.5/21*	1.1	1.5	21	32		176	167	155	136	112	82	33		2
CRI4F-1F/2/27*	1.5	2	27	32		218	208	197	179	152	113	57		
CRI4F-2/3/32*	2.2	3	32	32		245	238	231	223	211	192	168	141	

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE															Star Rating
					m ³ /hr	0	1.44	1.80	2.16	2.52	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.2	7.92	
					lps	0	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	
CRI4F-3/1.5/14*	1.1	1.5	14	32	Head in Metres	110	102	98	94	90	85	77	67	44						3
CRI4F-5/1.5/9*	1.1	1.5	9	32		64						61	60	56	49	42	33	25	11	4

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	0.72	1.08	1.44	1.8	2.16	2.52	2.88
						0	0.2	0.3	0.4	0.5	0.6	0.7	0.8
CRI4R-1E/0.5/09	0.37	0.5	9	32	Head in Metres	61	54	50	46	40	31	26	20
CRI4R-1E/0.5/10	0.37	0.5	10	32		64	57	52	46	40	34	27	19
CRI4R-1E/0.75/12	0.55	0.75	12	32		83	75	70	64	57	50	40	30
CRI4R-1E/0.75/13	0.55	0.75	13	32		87	79	73	66	58	50	40	30
CRI4R-1E/0.75/10	0.55	0.75	10	32		66	59	54	48	42	36	29	21
CRI4R-1E/1/13	0.75	1	13	32		89	81	75	68	60	52	42	32
CRI4R-1E/1/15	0.75	1	15	32		103	93	87	79	70	60	48	36
CRI4R-1E/1/18	0.75	1	18	32		121	109	102	92	80	68	56	40
CRI4R-1E/1.5/18	1.1	1.5	18	32		123	111	103	93	82	70	58	42
CRI4R-1E/1.5/20	1.1	1.5	20	32		140	126	117	105	92	80	62	45
CRI4R-1E/1.5/23	1.1	1.5	23	32		155	138	128	115	102	84	67	49
CRI4R-1E/1.5/26	1.1	1.5	26	32		163	143	132	120	105	88	69	50
CRI4R-1E/2/26	1.5	2	26	32		165	145	134	122	107	90	71	52
CRI4R-1E/2/35	1.5	2	35	32		240	214	195	181	162	136	98	57

* Marked pumpset are having ISI licence.



PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts

Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

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	Star Rating
						0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
CRI4R-2/0.5/08	0.37	0.5	8	32	Head in Metres	59	53	49	45	41	36	32	24	17	
CRI4R-2/1/13	0.75	1	13	40		92	88	84	80	72	54	56	48	39	
CRI4R-2/3/32*	2.2	3	32	40		231	225	218	205	191	176	158	135		
CRI4R-2/3/40*	2.2	3	40	40		278	264	253	240	221	202	176	146		
CRI4R-2/5/52*	3.7	5	52	40		359	347	334	315	290	258	228	191	152	
CRI4R-2/7.5/65	5.5	7.5	65	40		466	437	418	390	357	320	283	242		
CRI4R-2/7.5/70	5.5	7.5	70	32/40		497	472	451	421	388	346	300	254		
CRI4R-2N/0.5/06*	0.37	0.5	6	32		45	42	39	36	33	29	25	22	17	2
CRI4R-2N/0.75/08*	0.55	0.75	8	32		62	57	54	50	46	41	35	29	22	
CRI4R-2N/1/13* #	0.75	1	13	32		95	86	80	74	67	58	49	41	31	3
CRI4R-2N/1.5/13	1.1	1.5	13	32		97	88	82	76	69	60	51	43	33	
CRI4R-2N/1.5/17	1.1	1.5	17	32		125	115	108	100	92	80	70	57	45	
CRI4R-2N/1.5/19*	1.1	1.5	19	32		139	127	120	110	100	88	78	64	48	3
CRI4R-2N/2/17	1.5	2	17	32		127	117	110	102	94	82	72	59	47	
CRI4R-2N/2/19	1.5	2	19	32		141	129	122	112	102	90	80	66	50	
CRI4R-2N/2/23*	1.5	2	23	32		172	158	148	137	125	111	95	81	64	
CRI4R-2N/2/25* #	1.5	2	25	32		181	165	156	144	132	117	100	81	63	3
CRI4R-2N/2/30* #	1.5	2	30	32		218	196	182	167	153	136	113	92	71	
CRI4R-2N/3/25	2.2	3	25	32		183	167	158	146	134	119	102	83	65	
CRI4R-2N/3/30	2.2	3	30	32		220	198	184	169	155	138	115	94	73	
CRI4R-2N/3/32*	2.2	3	32	32/40		241	224	210	194	178	160	139	115	88	2
CRI4R-2N/3/35* #	2.2	3	35	32/40		261	240	224	206	189	169	145	119	90	3
CRI4R-2N/3/38* #	2.2	3	38	32/40		279	256	240	223	201	179	153	121		2
CRI4R-2N/4/42*	3	4	42	32		313	286	269	250	228	202	174	143	113	2
CRI4R-2N/4/50*	3	4	50	32		369	338	315	292	266	234	198	166	125	
CRI4R-2N/5/52*	3.7	5	52	32/40		388	353	332	309	283	252	216	176	133	2
CRI4R-2N/6/60	4.5	6	60	32/40		459	426	401	368	329	298	251	201	151	
CRI4R-2N/7.5/70	5.5	7.5	70	32		532	487	454	425	384	347	294	235	176	
CRI4R-2N/7.5/75	5.5	7.5	75	32		568	530	501	456	410	364	314	251	201	

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PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts

Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	1.44	1.8	2.16	2.52	2.88	3.24	3.6	3.96	4.32
						0	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2
CRI4R-3/2/20	1.5	2	20	32	Head in Metres	168	143	135	125	114	101	87	72	58	44
CRI4R-3/3/25*	2.2	3	25	32		213	185	175	164	150	135	118	97	77	59
CRI4R-3/3/30*	2.2	3	30	32		250	216	204	188	171	150	130	109	90	66
CRI4R-3/4/40	3	4	40	40		331	282	267	248	225	196	167	138	110	80
CRI4R-3/5/50	3.7	5	50	40		417	353	332	304	273	241	204	169	134	97
CRI4R-3/6/60	4.5	6	60	40		498	423	397	364	330	293	249	203	160	121

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	Star Rating
						0	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	
CRI4R-3E/1/05	0.8	1	5	32	Head in Metres	37	35	34	32	30	27	24	18	10	
CRI4R-3E/1/07*	0.75	1	7	32/40		54	50	49	47	45	43	40	31	24	2
CRI4R-3E/1/09* #	0.75	1	9	32		69	64	62	59	57	52	48	39	30	5
CRI4R-3E/1/10*	0.75	1	10	32/40		75	64	62	59	56	53	50	42	17	5
CRI4R-3E/1.5/9	1.1	1.5	9	32		71	66	64	61	58	54	50	41	32	
CRI4R-3E/1.5/10	1.1	1.5	10	32		77	66	64	61	58	55	52	44	19	
CRI4R-3E/1.5/11*	1.1	1.5	11	32		87	82	80	77	74	71	67	52	36	5
CRI4R-3E/2/14*	1.5	2	14	32/40		112	103	99	96	92	88	82	67	50	
CRI4R-3E/1.5/15*	1.1	1.5	15	32		109	94	91	87	83	78	71	56	38	4
CRI4R-3E/2/11	1.5	2	11	32		89	84	82	79	76	73	69	54	38	
CRI4R-3E/2/15	1.5	2	15	32		110	95	92	88	84	79	72	57	39	
CRI4R-3E/2/17*	1.5	2	17	32		121	114	111	107	103	99	91	74	56	
CRI4R-3E/3/24*	2.2	3	24	32/40		182	171	167	162	157	148	138	120	86	3
CRI4R-3E/3/26*	2.2	3	26	32/40		184	167	162	157	152	147	141	123	94	
CRI4R-3E/5/40*	3.7	5	40	32/40		301	272	264	254	240	222	200	152	113	
CRI4R-3E/6/43*	4.5	6	43	32/40		308	280	270	255	240	227	212	171		
CRI4R-3E/7.5/43	5.5	7.5	43	32/40		313	285	275	260	245	232	217	176		
CRI4R-3E/7.5/54*	5.5	7.5	54	32/40		412	389	382	374	362	346	319	259		2

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PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts

Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps Head in Metres	0	1.8	2.16	2.52	2.88	3.24	3.6	4.32	5.04
						0	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4
CRI4R-3E/1/07S	0.75	1	7	32		48	42	41	40	37	34	30	23	14
CRI4R-3E/1/10R	0.75	1	10	32		61.5	52.5	50	47	43.5	39	34	24	14.5

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps Head in Metres	0	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	Star Rating
						0	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	
CRI4R-5/1/07* #	0.75	1	7	32/40		50	43	41	38	34	29	24	17	10	5
CRI4R-5/1.5/09*	1.1	1.5	9	40		64	56	54	50	45	38	32	26	18	4
CRI4R-5/2/9	1.5	2	9	40		66	58	56	52	47	40	34	28	20	
CRI4R-5/2/10*	1.5	2	10	40/50		73	65	63	59	53	47	39	28	19	
CRI4R-5/2/12* #	1.5	2	12	40/50		87	76	74	69	63	56	45	33	21	
CRI4R-5/3/12	2.2	3	12	50		89	78	76	71	65	58	47	35	23	
CRI4R-5/3/15* #	2.2	3	15	40		111	97	95	89	82	71	59	45	30	3
CRI4R-5/3/18*	2.2	3	18	40/50		132	116	113	104	95	85	71	53	35	3
CRI4R-5/5/25*	3.7	5	25	40/50		181	158	154	144	134	121	101	77		3
CRI4R-5/5/27*	3.7	5	27	40/50		192	169	164	153	138	121	99	75		
CRI4R-5/5/32*	3.7	5	32	40		215	177	173	161	141	118	97	77		

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps Head in Metres	0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.64	9.36	Star Rating
						0	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	
CRI4R-5E/5/37*	3.7	5	37	40		224	200	196	191	182	169	156	143	124				2
CRI4R-5E/7.5/56	5.5	7.5	56	40		335	293	286	279	261								

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps Head in Metres	0	2.88	3.24	3.6	4.32	5.04	5.76	6.48	7.2	7.92	8.64
						0	0.8	0.9	1	1.2	1.4	1.6	1.8	2	2.2	2.4
CRI4R-5N/5/37	3.7	5	37	50		228	201	197	193	182	171	157	136	112	92	69
CRI4R-5N/5/40	3.7	5	40	50		229	201	198	193	183	171	157	138	112	93	70
CRI4R-5N/7.5/50	5.5	7.5	50	50		312	276	271	266	254	240	221	201	176	145	102
CRI4R-5N/7.5/56	5.5	7.5	56	50		343	301	295	289	275	259	237	210	180	146	100

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2850 RPM - At Rated Voltage - Single Phase - 220 Volts

Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

DISCHARGE																	RADIAL FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.64	9.36	10.08
					lps	0	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8
CRI4R-7/1.5/10	1.1	1.5	10	40	Head in Metres	69	60	59	58	55	52	48	43	39	34	29	24	
CRI4R-7/2/10	1.5	2	10	40		71	62	61	60	57	54	50	45	41	36	31	26	
CRI4R-7/2/12	1.5	2	12	40/50		85	75	74	72	69	66	62	57	51	46	40	34	
CRI4R-7/3/20*	2.2	3	20	40		141	124	122	119	114	108	102	94	85	76	66	55	
CRI4R-7/5/30	3.7	5	30	40/50		203	178	174	170	164	153	143	130	118	105	90	75	
CRI4R-7E/7.5/36	5.5	7.5	36	40/50		236	219	216	214	207	201	194	185	176	165	150	151	
CRI4R-7N/7.5/36	5.5	7.5	36	40		241	235	228	220	210	205	200	187	175	164	146	129	109

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	Star Rating
						0	1.2	1.4	1.6	2.0	2.2	2.6	3.0	
CRI4R-8/2/08	1.5	2	8	50	Head in Metres	58	50	48	45	39	36	28	21	3
CRI4R-8/2/09*	1.5	2	9	40/50		66	60	59	56	52	47	35	25	
CRI4R-8/3/12* #	2.2	3	12	50		89	76	74	70	60	54	42	25	
CRI4R-8/3/14*	2.2	3	14	40/50		102	90	87	83	71	64	51	37	2
CRI4R-8/5/14	3.7	5	14	50		104	92	89	85	73	66	53	39	
CRI4R-8/5/17	3.7	5	17	50		124	107	103	99	85	78	62	41	
CRI4R-8/5/20*	3.7	5	20	50		147	131	127	122	108	99	79	57	2
CRI4R-8/5/23*	3.7	5	23	40/50		168	146	141	135	120	109	88	62	
CRI4R-8/6/28	4.5	6	28	40		200	172	166	159	140	129	104	78	
CRI4R-8/7.5/34*	5.5	7.5	34	40		232	215	209	197	169	154	127	85	

DISCHARGE													MIXED FLOW
Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	5.40	7.20	9.00	10.80	12.60	14.40	16.20
					lps	0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
CRI4M-8E/2/8	1.5	2	8	50	Head in Metres	51	44	39	32	25	17		
CRI4M-8E/5/17	3.7	5	17	50		108	96	85	70	55	40		
CRI4M-13/3/9	2.2	3	9	50		47		41	38	35	31	26	20
CRI4M-13/5/12	3.7	5	12	50		50	48	45	41	32	24		
CRI4M-13/5/14*	3.7	5	14	50		67	61	56	51	44	37		

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PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts

Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	7.92	10	12	14	15.85	18	20
						0	2.2	2.78	3.33	3.89	4.4	5	5.56
CRI4M-14/2/07	1.5	2	7	50	Head in Metres	36	32	27	23.5	18.5	14	8	
CRI4M-14/3/07	2.2	3	7	50		38	33	30	29	22	18	14	9
CRI4M-14/3/09*	2.2	3	9	50		52.5	40	36.5	31.5	25.5	20.5	13	5.5
CRI4M-14/3/10*	2.2	3	10	50		57.5	46	41.5	35	28.5	22.5	15.5	7
CRI4M-14/5/12	3.7	5	12	50		69.5	56.5	50	42.5	35.5	29	21	10.5
CRI4M-14/5/14	3.7	5	14	50		79.5	63.5	57.5	49	41	33	23.5	14
CRI4P-14/3/10	2.2	3	10	50		59	49	45	40	34	29	22	15

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	12.6	14.4	16.2	18.0	19.8	21.6	23.4	25.2
						0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
CRI4P-20/2/06	1.5	2	6	65	Head in Metres	38	28	26	24	22	19	17	14	11
CRI4P-20/3/06	2.2	3	6	65		39	30	28	25	23	20	17	14	11
CRI4P-20/3/07	2.2	3	7	65		44	33	31	29	26	23	20	17	14
CRI4P-20/5/10	3.7	5	10	65		63	50	46	43	39	35	30	27	23

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2
						0	3.5	4	4.5	5	5.5	6	6.5	7
CRI4M-20/2/06	1.5	2	6	65	Head in Metres	34	26	25	24	23	21	19	15	15
CRI4M-20/3/06	2.2	3	6	65		36	28	27	26	25	23	21	17	17
CRI4M-20/3/07	2.2	3	7	65		41	32	31	29	28	25	24	22	20
CRI4M-20/3/08	2.2	3	8	65		46	36	34	33	31	29	27	24	21
CRI4M-20/5/10	3.7	5	10	65		60	48	46	44	43	41	38	35	32
CRI4M-20/7.5/14	5.5	7.5	14	65		79	64	62	59	57	55	52	48	43

* Marked pumpset are having ISI licence.

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MATERIAL OF CONSTRUCTION

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

MATERIAL OF CONSTRUCTION - PUMP	
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 441 / SS 304
Pump shaft	SS 304 / 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

MATERIAL OF CONSTRUCTION - MOTOR	
Part Name	Material
Shaft seal	Nitrile butyl rubber
Rotor Shaft	SS 410 / 431
Stator Shell	SS 441 / SS 304
Journal bushes	Carbon
Snap ring	SS 316
Thrust assembly	SS 420 & Graphite Carbon
Diaphragm	High Nitrile butyl rubber
Motor base	Cast iron



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