



ROTOMAKE
ENGINEERING INTERNATIONAL

SERIES
RMSS

SELF PRIMING

RMSS

GEAR PUMP

PERFECT SOLUTION
FOR TRANSFER OF
CORROSIVE, HYGIENIC
& **VISCOUS LIQUID**



PREMIUM QUALITY
Built with high grade
SS-316 materials



HIGH EFFICIENCY
Precision engineered
for optimal performance



SMOOTH OPERATION
Low pulsation &
consistent flow



LONG LIFE
Durable design for
extended service life



SS-316 CONSTRUCTION
Corrosion Resistant
Hygienic | Durable



ADVANCED TECHNOLOGY
Precision Design
Superior Materials
Tested for Reliability



WIDE APPLICATION
Chemical | Food | Pharma
Paint | Oil & Lubricants
& More



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Quality Standards



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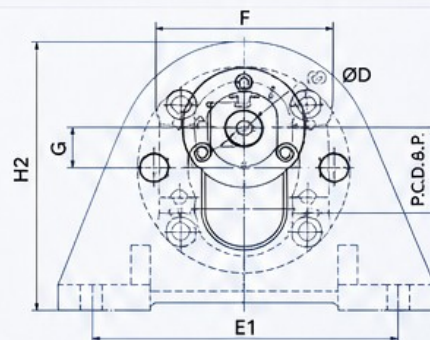
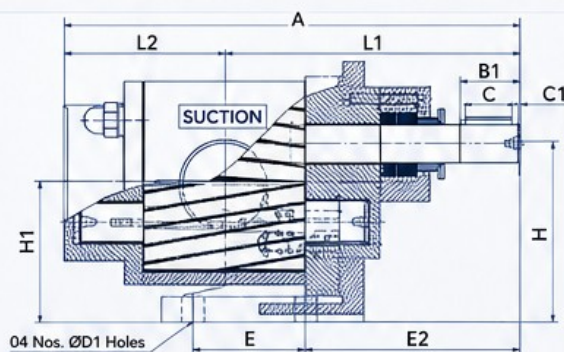
ADVANCED TECHNOLOGY FOR PUMPING VISCOUS LIQUID

RMSS Series self priming bi-directional gear pumps are designed for high performance and durability. Manufactured with premium quality SS-316 investment casting construction with nitrided gear/shaft & dry-teflon coated DU bush bearings requiring no lubrication. These pumps in three piece construction are easily cleanable and maintainable. The back cover can simply be removed by four dom nut or the right angle mounting brackets facilitate foot mounting of the pump on base plate with electric motor appropriate ratings.



MATERIAL OF CONSTRUCTION

- Pump Body : CF8M - S.S.316
- Front Cover : CF8M - S.S.316
- Back Cover : CF8M - S.S.316
- Gland Cover : CF8M - S.S.316
- R.H & L.H. Gear : AISI - S.S.316
- Rotor / Stator Shaft : AISI - S.S.316
- Bush Bearings : Teflon Coated 'DU'
- Mounting Bracket : C.I.Gr. - 20 IS 210
- Dom Nut : AISI - S.S.316
- Sealing : "Z" Pack teflon
- Packing : Teflon Sheet
- Key for Coupling : AISI S.S. 316



MODEL & POWER CHART

PUMP MODEL RMSS	SUCTION & DELIVERY	CAPACITY at 1440 RPM			POWER REQ. NO LOAD VISCOSUS H.P. at			Unit H.P per Kg/ Press	PUMP DIMENSION												WT. OF PUMP IN KG.	
									OVER ALL						MOUNTING & SHAFT							
		LPM	US GPM	M3/hr	200 CST	500 CST	750 CST		A	F G	H2	L1	L2	E	E1	E2	H	D D1	C C1	P Q		B1
015	1/8" X 1/8"	5.0	1.3	0.3	0.14	0.18	0.30	0.015	123	54	101	91	32	40	120	90	63	50.5	11.5	4	25	1.80
025	1/4" X 1/4"	8.3	2.2	0.5	0.20	0.25	0.35	0.02	129	12.5	101	94	35	40	120	90	63	50.5	8	13	25	2.00
040	3/8" X 3/8"	16.6	4.4	1.0	0.35	0.40	0.55	0.04	134	61	112	98	36	50	120	88	71	57	12.5	13	25	3.00
050	1/2" X 1/2"	25	6.6	1.5	0.40	0.50	0.70	0.06	146	14	112	103	41	50	120	88	71	57	8	3	25	3.50
075	3/4" X 3/4"	33.3	8.8	2.0	0.45	0.55	0.90	0.09	160	12.5	128	115	42	55	140	92	90	73	14	35	35	4.50
100	1" X 1"	50	13.2	3.0	0.50	0.60	1.0	0.13	177	17	128	115	55	55	140	92	90	73	10.5	3	16	5.00
125	1¼" X 1½"	100	26.4	6.0	0.65	0.85	1.25	0.28	210	90	149	143	66	50	155	111	100	79	18	30	38	7.00
150	1½" X 1½"	125	33.0	7.5	0.75	0.95	1.50	0.35	225	21	149	151	73	50	155	111	100	79	12	3	20.5	10.50
200	2" X 2"	150	39.6	9.0	0.90	1.15	1.75	0.45	251	103	167	162	85	70	190	131	112	87	24	30	8	20.50
		200	52.8	12.0	1.00	1.25	2.15	0.60	281	25	167	179	97	70	190	131	112	87	14	5	27	24.00
250	2½" X 2½"	250	66.0	15.0	1.20	1.40	2.35	0.65	299	122	197	206	93	85	200	161	132	102	28	40	50	35.00
		300	79.25	18.0	1.40	1.65	2.50	0.77	319	30	197	218	101	85	200	161	132	102	16	5	32	40.00



POWER CALCULATION GUIDE

For calculating the power requirement at duty point, multiply the duty point pressure with unit horse power & add no load viscous power of appropriate viscosity, provide safety margin before fixing the rating of the prime mover. For higher viscosity further margin may be kept or the manufacturer may be consulted. All sizes of "RMSS" pumps are designed to run at 1440 RPM up to viscosity of 500 CST. For small Size pump up to 1" same can be safely run at 1440 RPM even at higher viscosity up to 1000 CST with additional horse power. For Size above 1" reduce the speed to 960 RPM for viscosity up to 1000 CST. For higher Viscous liquids, consult the manufacturer to avoid cavitation & over loading problem.



APPLICATIONS

This compact and efficient SS pump can be used for handling viscous food Products like Ghee, Butter, Fruit Pulp, Vegetable Sauce, Starch etc. They are also used in Pharmaceutical industries for handling sugar solution, glycerine, glycol etc. In chemical industries corrosive viscous chemicals can be easily handled with this pump most effectively.

