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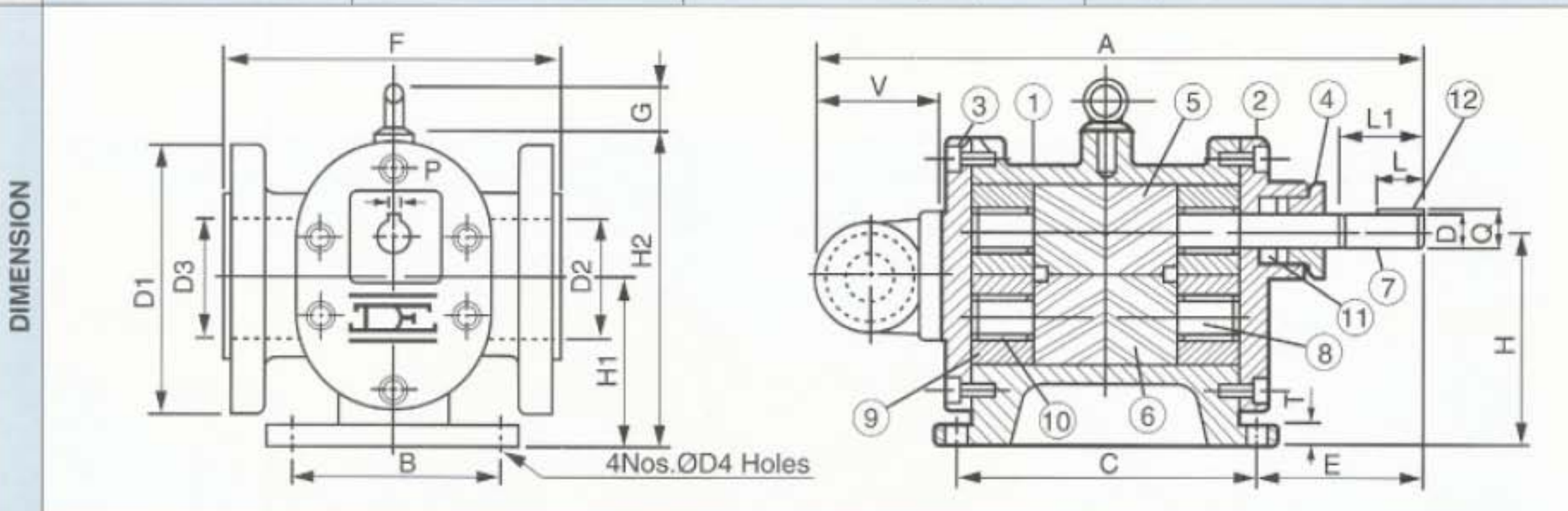


Self lubricated bush bearing design
ROTARY GEAR PUMP type **RDM**,
RDMJ, **RDMS**, **RDMSJ**, for Foam
pressurizing fire fighting, Chemicals
and Pharmaceutical applications &
transfer of all kind of Viscous, Non
viscous Thick or thin liquids.

GENERAL ROTODEL Rotary gear pump type RDMS is all SS, simple four piece construction pump specially designed to handle thinner or thicker & even corrosive liquid having lesser or no lubricating value. The SS-316 herring bone Rotors runs on Teflon coated dry running DU bush bearing supported on bronze wearing plate, placed inside the pump casing, alternatively graphite/bronze wearing plate cum bushes are also provided for heavier viscous liquid application. The stuffing box is fitted with Z-pack sealant with provision to fit mechanical shaft Seal. The pump is provided with add-on type pressure relief valve.

MOC

01 Pump Body	CF8	04 Gland Cover	CF8	07 Rotar Shaft EN-57/SS-430	10 Bushes Teflon Coated DU
02 Front Cover	CF8	05 Rotar Gear	SS-316	08 Stator Shaft EN-57/SS-430	11 Shaft Seal - Z Pack/Mech. Seal
03 Back Cover	CF8	06 Stator Gear	SS-316	09 W.Plate - Bronze/Graphite	12 Key SS-316



PUMP MODEL-SIZE-CAPACITY & POWER CHART

PUMP MODEL	CAPACITY AT 1440 RPM			POWER REQ.				PUMP DIMENSIONS														WT. OF BARE PUMP P.SET IN KG					
	PORT SIZE ASA-150	LPM	US GPM	M3/hr	NO. LOAD VISCOUS H.P.			Unit HP / kg Pres.	Over all				Mounting				Shaft										
					200 CST.	250 CST.	750 CST.		A	F	V	H2 G	B	C	E	D1	D2 D3	D4	T	D	H		H1	L	L1	P	Q
RDMS-050	S	13.0	3.30	0.75	0.075	0.11	0.19	0.034	215	150	35	130	80	100	75	89	1/2"	08	10	12	80	69	26	38	04	13	8.5
	M	16.6	4.40	1.00	0.10	0.15	0.25	0.045																			
RDMS-100	S	30.0	7.92	1.80	0.16	0.28	0.40	0.088	251	160	45	135	90	110	91	108	1"	10	10	15	90	74	29	38	05	18	9.0
	M	37.5	9.90	2.25	0.20	0.35	0.50	0.110																			
RDMS-150	S	60.0	15.8	3.60	0.32	0.52	0.60	0.176	295	180	52.5	160	105	130	103	127	1.1/2"	10	10	21	100	80	34	45	06	24	12.0
	M	75.0	19.8	4.50	0.40	0.65	0.75	0.220																			
RDMS-200	S	100	26.4	6.00	0.40	0.68	0.80	0.272	334	200	60	170	110	150	117	152	2"	12	14	24	112	89.5	30	55	06	27	22.0
	M	125	33.0	7.50	0.50	0.85	1.00	0.340																			
RDMS-250	S	150	40.0	9.00	0.71	0.94	1.13	0.405	369	220	60	200	130	160	140	178	2 1/2"	15	15	28	132	106	40	65	08	31	28.0
	M	200	52.9	12.00	0.95	1.25	1.50	0.540				56															
RDMS-300	S	250	66.0	15.00	0.94	1.28	1.50	0.615	453	235	75	241	160	220	161	190.5	3"	19	25	32	160	131	55	75	10	37	40.0
	M	333	88.0	20.00	1.25	1.70	2.00	0.820				56															
RDMS-400	S	415	111	25.00	2.92	4.17	5.00	1.100	525	275	90	270	180	270	171	228	4"	19	25	36	180	145	50	85	10	41	68.0
	M	500	132.9	30.00	3.50	5.00	6.00	1.320				66															
RDMS-500	S	600	158	36.00	4.00	6.00	7.20	1.568	600	300	90	305	200	280	200	254	4.1/2"	19	25	45	200	160	65	100	14	52	110.0
	M	750	197.5	45.00	5.00	7.50	9.00	1.960				66															
RDMS-600	S	1000	2630	60.00	5.63	7.50	9.00	2.700	663	340	90	345	220	350	216	279	5"	22	25	50	225	179	70	120	14	57	170.0
	M	1335	351	80.00	7.50	10.0	12.0	3.600				76															
RDMS-600	S	1611	451	100.0	10.0	12.5	15.0	3.988	710	356	100	360	240	380	244	343	6"	22	28	55	250	200	90	130	16	58	200.0
	M	2050	542	120.0	12.0	15.0	18.0	4.750				76															

POWER-SPEED The Hydraulic HP should be calculated by multiplying the unit HP with the duty point pressure, the viscous horse power of appropriate viscosity should be added to this from above chart. Margin for R.V. operation & Safety margin should be provided before fixing the drive HP. All model of RDMS series are basically designed to run at 1440 RPM up to viscosity of 200 CST however in higher sizes above 2" the pump speed is required to be reduced with increase in viscosity for this refer viscosity speed curve or consult the works. While reducing the speed the pump shaft should not be loaded with heavy gears or pulley use bearing block to take up such load.

USES RDMS Pumps are used for handling thinner liquid at moderate pressurizing viz. foam pressurizing application for fire fighting, high pressure coolant transfer application for machine tools, light fuel pressurizing application or boiler & burners, heavy viscous liquid transfer application such as Molasses, Magma, Soap stock, Tar, Bitumen, Paints, Varnish, crude oil etc.



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