

Pump Range

Hopper

Max. Capacity : 120 m³/hr Max. Pressure : 24 Bars

Viscosity : 10,00,000 Cst or above. Standard Material: Cast Iron, SS 304, SS 316.

Drive Shaft : En-24, SS 304, SS 316 Hard Chrome Plated

Under Gland for excellent wear resistance.

Solid or hollow design are standard. : Fabricated M. S., SS 304, SS 316 also in

food grade quality.

Rotor : Hardened and Hard Chrome Plated rotors in

En-24, Tool Steel, SS 304, SS 316, SS 316L

and other exotic materials.

Universal Joint : Grease lubricated pin type fully sealed &

hardened in tool steel, \$\$304, \$\$316,

SS316L etc.

Shaft Sealing : Soft packing, Cartseal and Mechanical seal.

Stator : Natural Rubber, Nitrile, Neoprene, EPDM,

NCR, Hypalon, Silicon, Viton etc.

Principle

Single screw pumps belong to the family of rotary positive displacement pumps, which works on unique principle of Progressive Cavity Pumps. The principle feature of this pump is based on a single helical rotor turning eccentrically in a double threaded helical stator twice the pitch length. As it rotates, a series of sealed cavities, 180 degrees apart are formed, which move along the pump from suction to discharge. As one cavity is closing, the opposite cavity is increasing in size at exactly the same rate to produce a non-pulsating, positive displacement flow.



Application

Loading, Unloading, Transfer, Dosing, Draining, Re-circulation, Feeding to spray driers, Filter presses, Centrifuges, Digester, Evaporators etc.

Industries

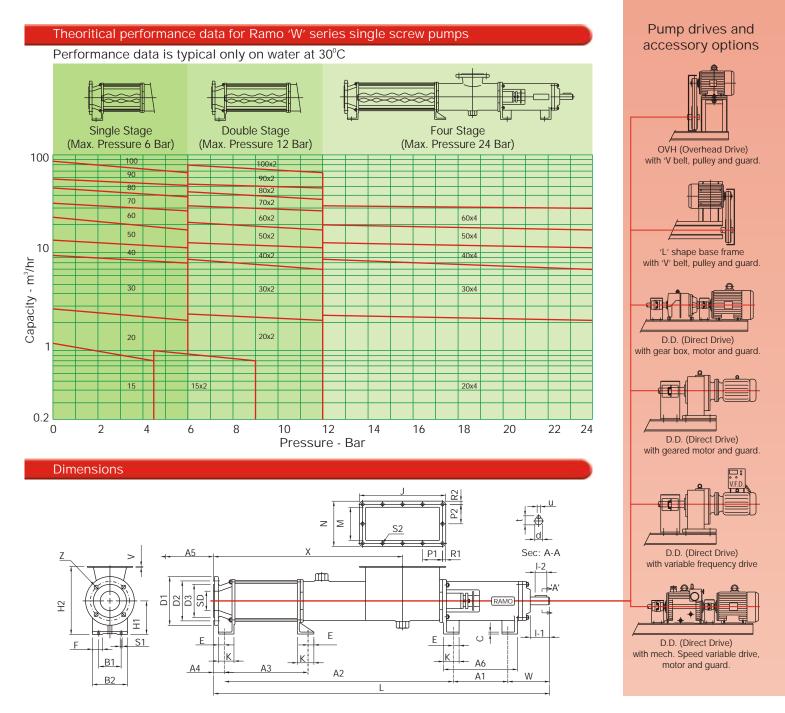
Adhesive & Glue, Breweries, Bakery, Confectionery, Dairy, Cosmetics & Toiletries, Explosives, Ceramic & Refractories, Cement Industry, Mining & Construction, Chemical & Fertilizer, Oil Blending, Dyestuff, Food Processing, Edible / Palm Oil, Printing & Packaging, Slaughter House & Meat Processing, Sugar Industry, Paint & Varnish, Paper & Pulp industry, Cellulose, Petrochemical, Sewage & Waste Water, Soaps & Detergent, etc.

Fluid handled / Applications

Aluminium Hydroxide Paste, Asbestos Slurry, Bentonite Slurry, Butter, Chayawanprash, Cake / Chocolate Mix, Clay / Coal Slurry, Explosive Surry, Ferrite Slurry, Fish Paste, Formic Acid Slurry, Fruit & Vegetable Mash, Glue, Grease, Gel, Ghee, Grout Mix, Malt Mix, Magma & Massecuite, Molten Soap, Mash Grapes, Minced Meat, Oil Paste, Petroleum Jelly, Pigments, Putty, Printing Inks, Silicon Gum, Shrikand, Sludge, Tooth Paste, Yoghurt, Wax etc,

Salient Features

- Inlet: Wide throat suction hopper along with coupling rod cum auger arrangement, facilitate easy entry of highly viscous product to the cavity between rotor & stator, which is then pumped out with ease.
- Bridge Breaker: Pumps are also available with bridge breaker arrangement in the Hopper to move extremely difficult liquids which tends to stick on the walls of the hopper as well as bridge formation.
- Viscous: Can handle highly viscous liquids, pastes and sticky materials.
- Maintenance: Low internal velocity thereby minimizes wear & tear. Virtually no maintenance required.
- Torsion free metal: Bonded stator for higher efficiency, increased stator life & per stage pressure.



Type & Size		Basic Dimensions															Hopper Dimensions							Flange Dimensions								Shaf	Wt. In						
	A1	A2	А3	A4	A5	A6	A7	A8	B1	B2	С	K	Е	F	H1	H2	S1 I	_ X	J	М	N	P1	P2	R1/R2	S2	V	SD	Т	D1	D2	D3	G	Z	d	I-1	I-2	t	u V	/ Kgs.
W-30	177	610		51	355	237	604	_	70	92	10	50	20	28	100	200	12 9.	40 511	270	180	250	60	55	15	16-⊘10	6	50	20	165	125	125	3	4-Ø18	22	50	50	22.5	6 10	6 —
W-30x2		760	_	-		1	754	_									10	90 611								_													30.0
W-30x4		1190					1170	659										36 107																					58.0
W-40	177	779	_	44	450	257	763	_	78	110	12	60	20	34	112	250	12 11	25 661	310	210	280	70	62.5	15	16-⊘10	6	65	20	185	145	145	3	4-⊘18	28	60	40	31.0	8 12	5 54.0
W-40x2	1	879	472				963	63 452									13	25 861																					60.0
W-40x4		1539	893				1514	873									19	43 135																					87.0
W-50	203	977	336	44	575	293	962	316	92	134	14	70	25	45	132	282	15 13	80 797	400	240	310	74	70	15	18-⊘12	6	80	22	200	160	160	3	8-⊘18	32	80	60	35.0	10 15	7 102.0
W-50x2	1	1227	586				1212	566	1								16	30 104	7																				98.0
W-50x4		1894	1108				1919	1133									23	35 166	5																				167.0
W-60	228	1188	401	48	700	328	1162	376	110	142	14	75	25	40	160	330	18 16	26 956	575	275	355	90	80	17.5	20-Ø15	8	100	24	220	180	180	3	4-⊘18	38	80	60	41.0	10 16	6 142.0
W-60x2	1	1483	701				1462	676									19	26 125	5																				159.0
W-80	270	1544	508	64	025	370	1514	483		175	1/	75	25	45	1/0	245	10 20	70 127 70 167	700	308	400	110	00	20	20-Ø18	10	100	2/	250	210	210	2	8-⊘18	40	110	00	FOF	14 20	0 220.0 255.0
W-80x2	7270	1944	908		925	3/0	1914 883	883		1/5	16	/5	25	45	100	345	18 24	70 167	700	308	400	110	90	20	20-018	10	125	20	250	210	210	3	8-018	48	110	80	32.3	14 20	255.0
W-100	342	1946	659	51	1200	482	1906		170	232	18	100	20	60	200	440	22 25	92 151 92 201	010	358	450	110	02	20	24-Ø18	12	150	2/	205	240	240	1	8-Ø22	/^	140	100	/40	18 25	390.0
W-100x2	342	2446	1159	31	1200	482	2406	1119	1/2	232	18	100	30	00	200	440	22 30	92 201	810	338	450	110	82	20	24-1018	12	150	20	285	240	240	3	8-1022	00	140	100	04.0	18 23	450.0

Above dimensions are for reference only & subject to change.

Manufactured By:



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