

Single Screw Pumps (Progressive Cavity) Pump for Chemical & Industrial Application

Pump Range

Maximum capacity: 120 m³/hr Maximum pressure: 24 Bars Viscosity: 1,00,000 Cst

Castings : Grey cast iron, CF-8 & CF-8M are standard

casting materials. Special alloys or rubber

linings are optional.

Drive shaft : En-24, SS 304, SS 316 Hard Chrome

Plated Under Gland for excellent wear resistance. Solid or hollow design are

standard.

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 En-24, SS 304, SS 316,

SS 316L etc.

Shaft sealing : Soft Packing, Cartseal &

Mechanical Seal.

Stator : Natural Rubber, Nitrile, Neoprene, Hypalon,

EPDM, NCR, 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

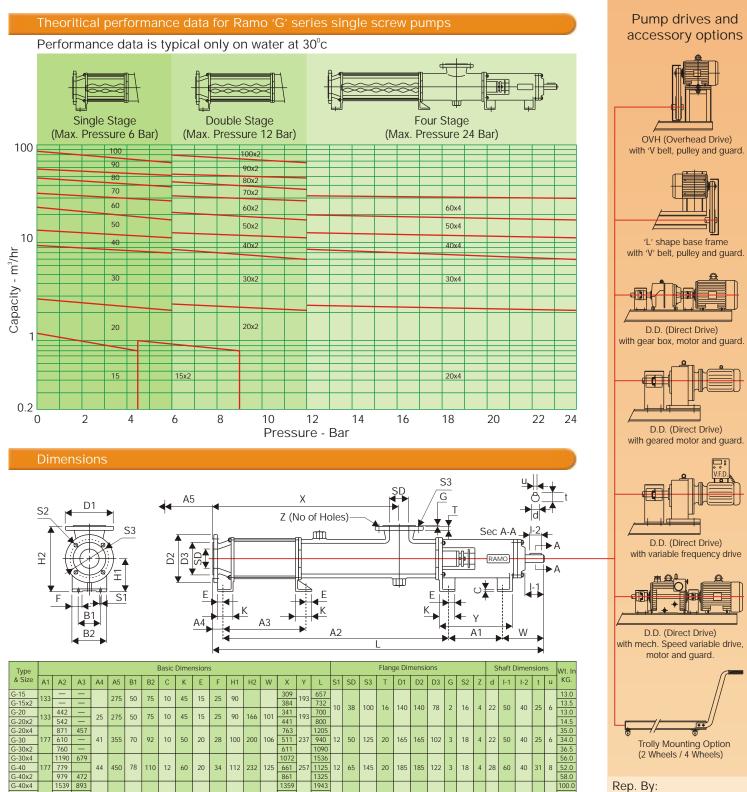
Agriculture, Breweries & Distilleries, Ceramic & Refractories, Construction, Cement Industry, Chemical & Fertilizer, Dyes, Edible / Palm Oil, Effluent Treatment, Marine & Ship Building, Sugar Industry, Paint & Varnish, Paper & Pulp industry, Cellulose, Petrochemical, Sewage & Waste Water, Soaps & Detergent, Starch, Speciality Chemicals etc.

Fluid handled

Alum Liquor, Black Liquor, Additives, Ceramic Slurry, Coating Mix, Emulsions, Effluent Sludge, Molasses, Latex, Lime Slurry, Paint, Polyelectrolyte, Oily Water & Sludge, Spent Wash, Starch Slurry, Brine Sludge, Polymer Emulsions, Edible Oil, Gum, Soap Shampoo, Printing Ink, Chemicals, Dye Stuff, Paint, Sewage & Waste Water, Gel, Oil Paste, Pigments etc.

Salient Features

- Self priming: Hence no Foot Valve / Priming required.
- Low NPSH (R): High suction lift up to 8.5 MWC.
- Handles any liquid from water to abrasive slurry & froth to highly viscous media.
- Double sealed universal joints ensure smoother power transmission & longer life.
- Simple construction minimum wear, easy maintenance.
- Reversible: Pump can be operated clockwise as well as in anticlockwise direction by reversing the motor connections.
- Torsion free metal bonded stator for higher efficiency & per stage pressure.
- Cardan Joint as optional.
- Solid handling capacity up to 60%.



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Manufactured By:

977

1544 508

G-50

G-50x4



575

92 134 14 70 25

51 1200 172 232

Above dimensions are for reference only & subject to change.

18 100 30 60 200 440 253

44

49 700 110 142 14 75 25 40 160 310 166

64 925 130 175 16 75 25 45 160 330 200

45 132

157

H. O.: B 114, 1st Floor, Durian Estate, Goregaon-Mulund Link Road, Goregaon East, Mumbai 400 063, India.

138

158

200

18

18

18 8 48 110 80

32 80 50

80

10

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Sankari 637301, Salem (Dist.) T.N., India.

80 160 22 200

100 180 24 220

18 125 210 26 250 250 188

293 1380

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