How to Use Rotary Pumps

Excerpts from an excellent sound film on rotary pumps show some important pointers on applying rotaries in your plant. Read and study this info if you want graphic help on the job

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All of Worthington Corp, Harrison, N. J.—Contact the author for the full show



1 What's a rotary pump? This film will answer many questions about them



2 Positive-displacement machines that act like reciprocating units but . . .



3 Of different design with close clearances, using gears or vanes as here



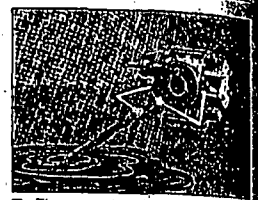
4 Use these pumps where high viscosity of liquid prohibits other types . . .



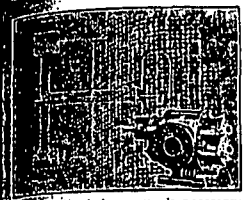
5 Where space is limited and simplicity appreciated. They have few moving...



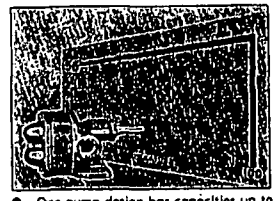
6 Parts, no valves, and are excellent where cost is a serious consideration



7 They are ideal for difficult suction conditions, as where a high lift



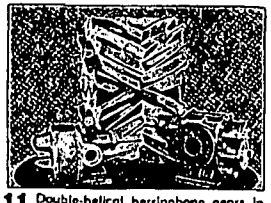
8 Or a self-priming pump is necessary. Also good for very low npsh condition



9 One pump design has capacities up to 56 gpm with pressures up to 100 psi



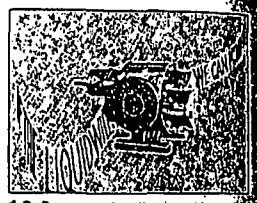
10 Larger pumps can handle up to 5000 gpm; discharge pressures to 500 psi



11 Double-helical herringbone gears in gear-type pumps are sturdy, rugged



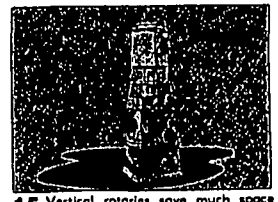
12 There is no chance of trapping the liquid between gear teeth and the...



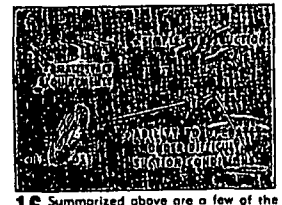
13 Pump can handle the widest range of liquid viscosities met in service



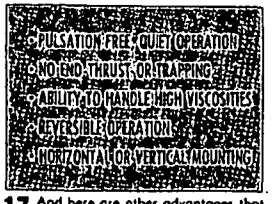
14 Herringbone-gear pumps can run in either direction without any change



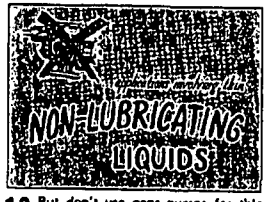
15 Vertical rotaries save much space in many applications on land and sea



16 Summarized above are a few of the advantages gear pumps offer you



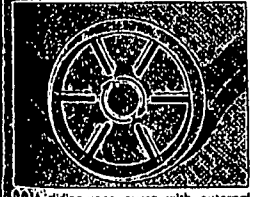
17 And here are other advantages that make pump operation easier, better



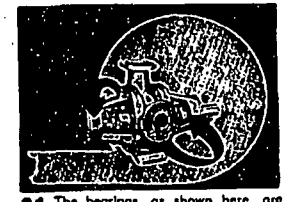
18 But don't use gear pumps for thin nonlubricating liquids nor for . . .



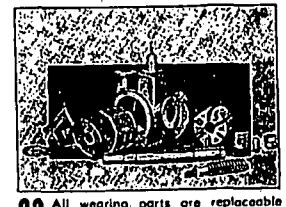
19 Liquids containing abrasive or corrosive materials that damage gears



20 A sliding-vane pump with external bearings is far better, wears less



21 The bearings, as shown here, are separately lubricated, long-lived



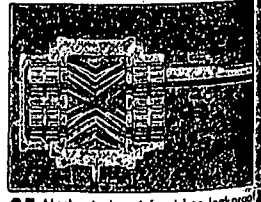
22 All wearing parts are replaceable when worn. The vanes are reversible



23 Vane-type rotary pumps handle up to 1000 gpm; pressures to 200 psi



24 Here is how vane-type rotary pumps are available for your plant jobs



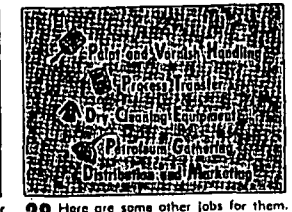
25 Mechanical seal furnishes leakproof stuffing box where this is needed



26 If there's danger of shaft deflecting an extra sleeve bearing is used



27 Among the many applications for rotary pumps are lube-oil handling



28 Here are some other jobs for them. Why not consider a rotary pump?