



Series MD - EGP



**SEALLESS MAGNETIC DRIVE
EXTERNAL GEAR PUMPS**
In
STAINLESS STEEL CONSTRUCTION

Introduction

M/s. KwenG Alloys Private Limited, located at J – 66, G.I.D.C., Antalia – 396325 Bilimora, Gujarat, INDIA is a progressive technically based Company and has 50 people engaged in the Design & Manufacture of Sealless Magnetic Drive Equipments.

The Company's growth is based upon product quality backed by a design and R&D Team actively engaged in ensuring that KwenG keeps to the forefront of Magnetic Drive Technology.

A modern production facility - 10000 sq. feet including a clean assembly and test area ensures that the equipments are manufactured under the most stringent conditions.

M/s. KwenG Alloys Private Limited was awarded the National Award for R&D in Industry in Mechanical Engineering category for the development of the Magnetic Drives by the Department of Scientific and Industrial Research (DSIR), Ministry of Science & Technology, Government of India on 22nd November 2001 at New Delhi.

Kweng presents here its new product Sealless / Glandless Magnetic Drive EXTERNAL GEAR PUMPS

Working Principle

KWENG MD - EGP Series External gear pumps are similar in pumping action to internal gear pumps in that two gears come into and out of mesh to produce flow. However, the external gear pump uses two identical gears rotating against each other – one gear is driven by a motor and it in turn drives the other gear. Each gear is supported by a shaft with bearings on both sides of the gear.

1. As the gears come out of mesh, they create expanding volume on the inlet side of the pump. Liquid flows into the cavity and is trapped by the gear teeth as they rotate.
2. Liquid travels around the interior of the casing in the pockets between the teeth and the casing – it does not pass between the gears.
3. Finally, the meshing of the gears forces liquid through the outlet port under pressure.

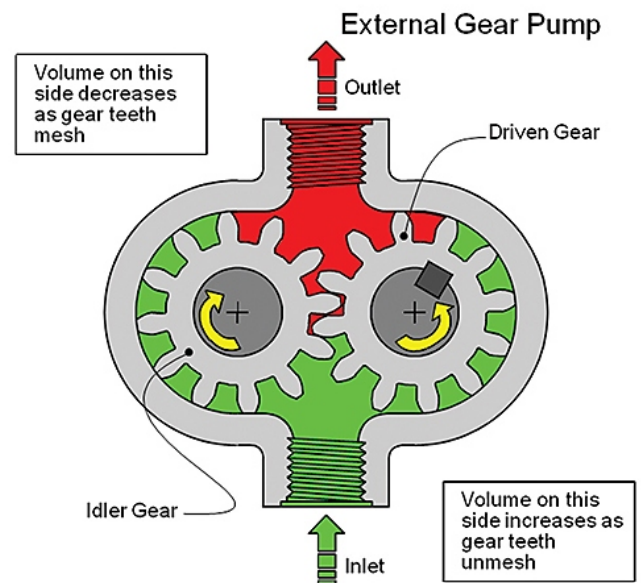
Because the gears are supported on both sides, external gear pumps are quiet-running and are routinely used for high-pressure applications such as hydraulic applications. With no overhung bearing loads, the rotor shaft can't deflect and cause premature wear.

RANGE

Capacity upto	Pressure Std upto	Temp. °C upto	Viscosity cSt upto	Mounting
700 LPM	7 Bar	+300	100000	Close Coupled or Separate Mounted

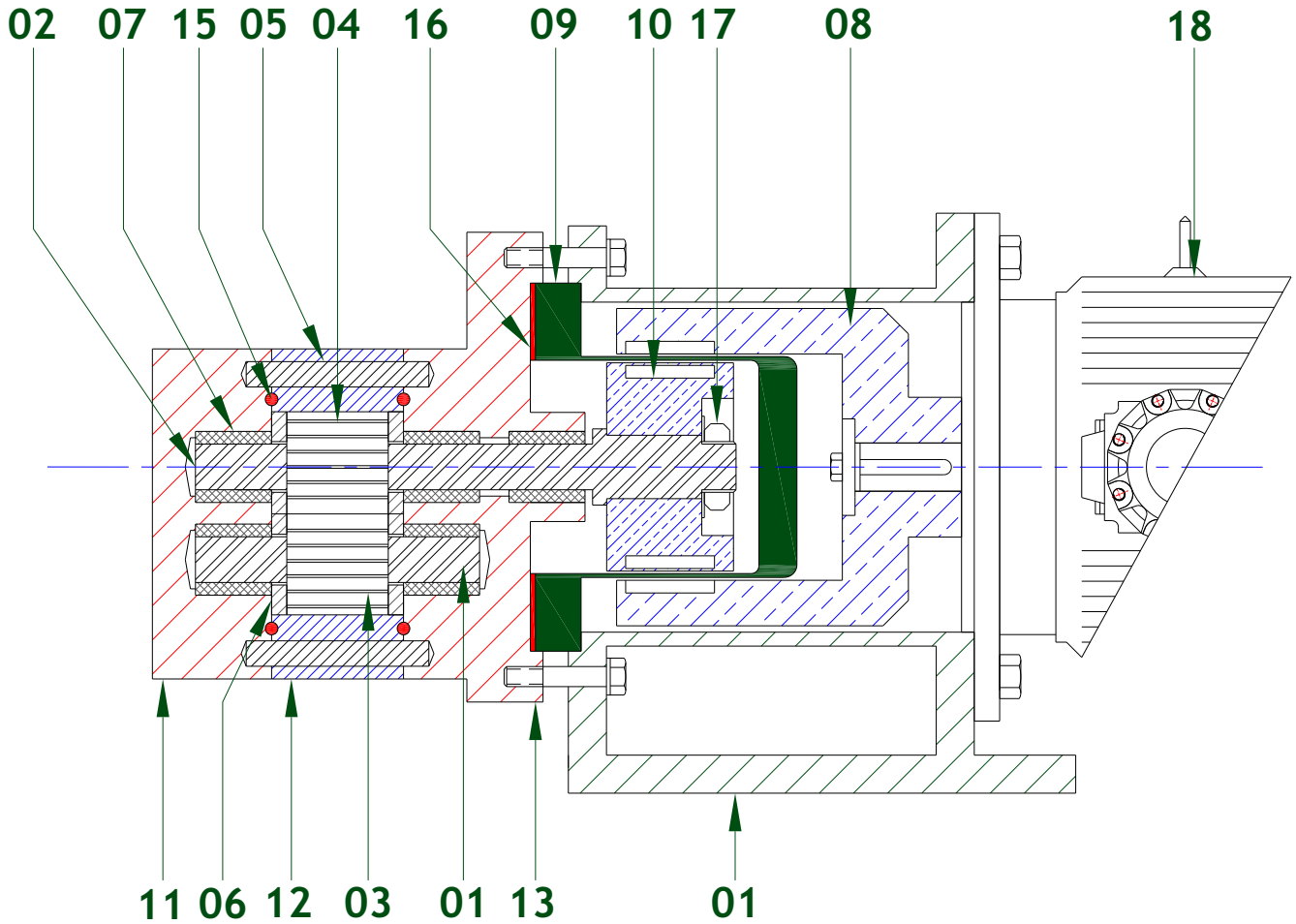
Nominal capacity based on 100 SSU (20 cps) liquid at 100 PSI (7 BAR)

External Gear Pump Action



- High speed
- High pressure
- Insensitive to Viscosities
- No overhung bearing loads
- Sealless Magnetic Drive Design
- Low Noise & pulsation
- Monoblock Design
- Easy Maintenance
- Reduced Maintenance

Construction



001	Idler Shaft	SS 316	011	Front Housing	SS 316
002	Drive Shaft	SS 316	012	Centre Housing	SS 316
003	Idler Gear	SS/PEEK/PTFE	013	Rear Housing	SS 316
004	Drive Gear	SS/PEEK/PTFE	014	Drive Housing	Mild Steel
005	Pin	SS 316	015	O Rings	PTFE
006	Wear Plate	SS 316	016	Gaskets	PTFE
007	Bush Bearing	PEEK/Carbon/SiC	017	Lock Nut	SS 316
008	Driver Magnet	EN 8/Mild Steel	018	Electric Motor	Standard
009	Isolation Shell	SS 316	019	Over Pressure Valve	Standard
010	Driven Magnet	SS 316	020		

Options

Material of Construction

Wetted Parts : Alloy 20, Alloy C, Titanium
 Internal Bearing : Alpha SiC / Carbon
 Gaskets : PTFE / CAF

Other Options

Flanged OR Nozzle type Casing
 Casing Drains Flanged or Screwed
 Jacketed Casing & Isolation Shell
 Coupling Housing Drain

Typical Applications

Specifying the best pump for any application requires a detailed technical understanding of the process involved

Kweng has always operated on the basis of an intensive and continuing dialogue with our customers, we regard the free flow of information in both direction to be of paramount importance

Typical liquids pumped:

Oils, Fuels, Adhesives, Sealents, Polymers, Paints, Inks, Coatings, Petroleum, Solvents, Heat Transfer Applications, Chemicals, etc.

Other Kweng Products

KWENG with presence in all the sectors of the Pharmaceutical, Bulk Drug & Chemical has learned that most of the clients require a partner for their success rather than a good supplier. Hence, Kweng has invested a great deal of their effort, time and experience to be a partner in the endeavors of its clients by supplying equipments for Aseptic & High Purity Processes, Bulk Drug Processes, Chemical & petrochemical processes.

KWENG PRODUCT RANGE

BAGI Mixers	Magnetic Drive Bottom Mounted Mixers
BAGI Mixers (CM)	Magnetic Drive Bottom Centre Mounted Mixers
BAGI Homogenizers	Magnetic Drive Bottom Mounted Homogenizers
TAGI Mixers	Magnetic Drive Top Mounted Mixers
Inline Homogenizers	Magnetic Drive In Line Homogenizers
Pumps	Magnetic Drive Pumps



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