

AGM

Lobe Rotor Pumps

Standard • Extreme Duty



Agrometer a/s

September 2015

A Secure Solution for Your Pump Tasks



The AGM lobe rotor pump is a Danish designed and manufactured pump which gives you numerous unique advantages - also when pumping difficult liquids in a tough environment.

- Dry mounted - better working environment
- Compact design - flexible lay-out
- Quick service - lower operation costs
- Rigid components - reliable operation

Standard the AGM lobe rotor pump is available in three sizes with a maximum flow of 80 m³ per hour.

For particularly demanding pump tasks there is the **AGM Extreme Duty** with a maximum flow of 130 m³ per hour.





Pumps All the Difficult Liquids



You can use the AGM pump for many different tasks with both clean and impure liquids, which traditionally cause problems.

The AGM pump has been continuously developed through more than 20 years, and today it is being used to pump e.g.



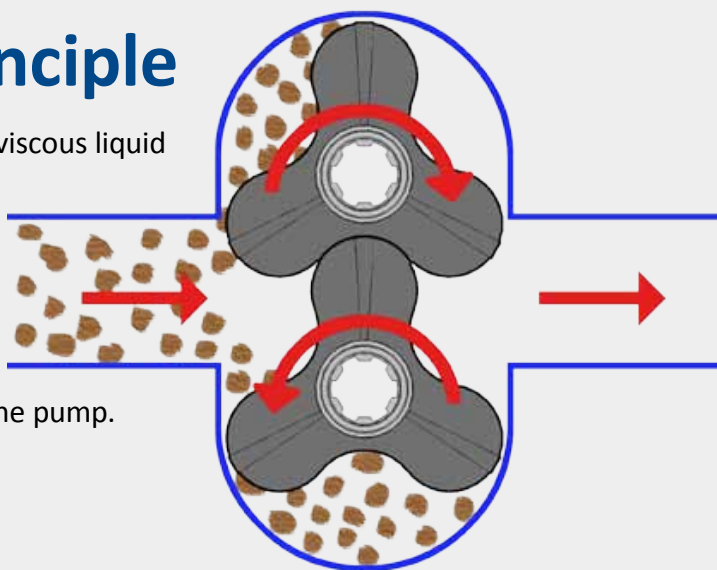
- Unfiltered waste water
- Molasses and grease
- Dewatered sludge
- Offal and blood
- Animal feed
- Paint, glue and varnish
- and much more

Gentle Pumping Principle

The AGM pumps are particularly well-suited for viscous liquid with a high dry matter content.

The pumps are working by the displacement principle:

Two rubbercoated lobes turn in opposite directions inside the closed pump house, and hereby gently forces the liquid to pass through the pump.





Quick and Easy Service Means Shorter Operation Stoppage

The design of the AGM pumps helps you to avoid longer operation stoppage.

Without dismantling the pump from the pipeline, it can be serviced and reconditioned using regular hand tools.

You have full access to replace all wear parts just by removing 8 allen bolts.



Comfortable Working Environment with Self-Priming Pumps

When using the AGM pump, you get a nice and clean working environment around the pump.

- Easy to service
- No foot valve or vacuum system
- More flexibility
- Improved operational reliability
- Self-priming up to 8 m vertical



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Individual Solutions

The AGM lobe rotor pump can be installed and powered in many different ways, and can be used both as fixed or mobile pumps.

We create customised solutions according to your needs.



Also for Tough Environments

Even in tough conditions the AGM pump works reliably.

The pump consists of a minimum of components and joints. That makes it easy to keep it sealed from oil, sludge and dust.

AGM Standard

- Thoroughly tested
- 3 sizes - same spare parts
- Simple construction
- DIN flanges for easy fitting
- Small built-in dimensions

AGM 95/1:

Max. flow 28 m³/hour

Max. pressure 10 bar

DN 80 flange

AGM 190/2:

Max. flow 50 m³/hour

Max. pressure 8 bar

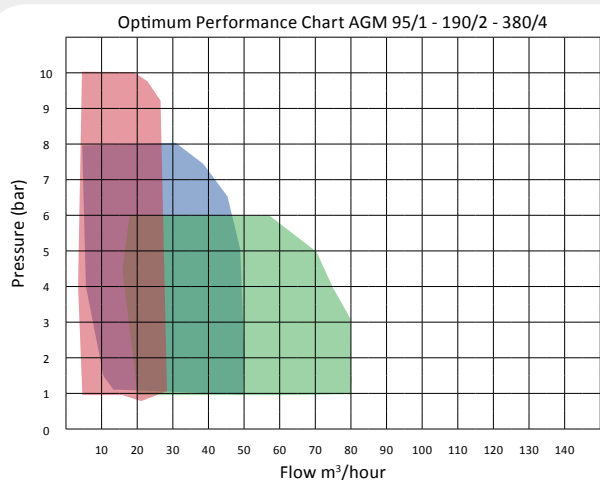
DN 100 flange

AGM 380/4:

Max. flow 80 m³/hour

Max. pressure 6 bar

DN 150 flange



AGM 95/1

AGM 190/2

AGM 380/4

AGM Extreme Duty

- New more powerfull model for demanding jobs.
- 2 sizes - same spare parts
- Most spare parts identical to AGM Standard
- DIN flanges for easy fitting
- Small built-in dimensions
- Twisted lobes reduces pulsation
- 17-spline shaft increases stability

AGM 190/1 ED:

Max. flow 65 m³/hour

Max. pressure 10 bar

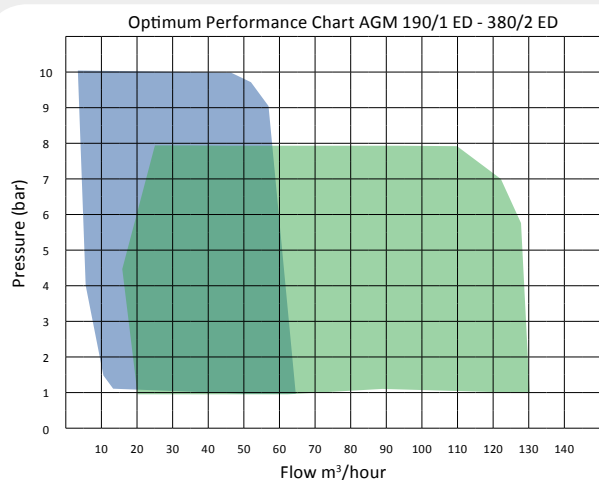
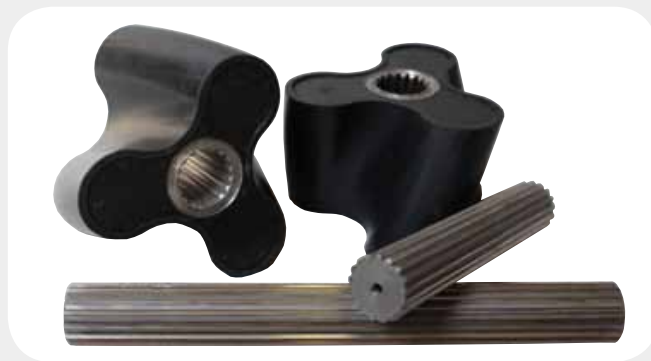
DN 100 flange

AGM 380/2: ED

Max. flow 130 m³/hour

Max. pressure 8 bar

DN 150 flange



AGM 190/1 ED

AGM 380/2 ED



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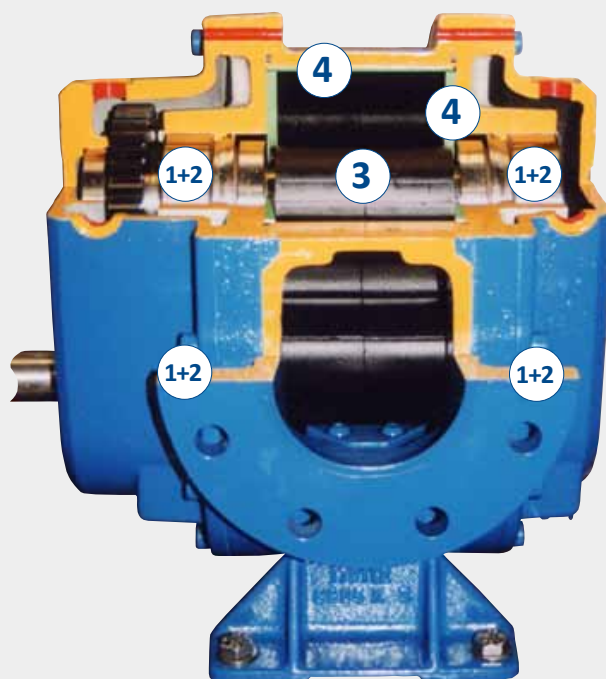
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Designed for Long Service Life, Reliable Operation and Low Costs

There have been no compromises in the design of the AGM pump.

Whilst the material selection makes it possible to solve very demanding tasks, the pump is also designed to lower your costs for maintenance.

Since most wear parts in the different pumps are identical, it means you don't need to stock complete spare part sets for all your pumps.



1 Double bearing

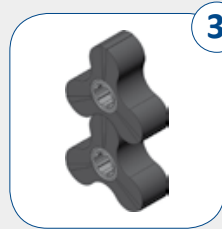
The pumps service life is extended because the pump always operates calmly and steadily, also at high discharge pressures or with impure liquids.

This is because the shafts have bearings in both ends, ensuring they are always stable.



2 Oil Lubricated Shaft Seal

Shafts and oil bath are always kept clean, even when pumping very impure liquids. This is ensured by the oil lubricated shaft seal.



3 Standard NBR Lobes

Even at low revolutions the three-blade lobes ensure a good suction ability. Furthermore the efficiency is increased, because a scraping edge on the top of the lobes reduces friction between the lobes and the wear lining. O-rings between the lobes ensures that no dirt reaches the shaft.



3 Extreme Duty Lobes

Guarantees a steady flow at high performance. The twisted lobes are particularly designed to eliminate pulsation at high performance. Furthermore, 17-splined shafts increases service life at high loads, as the traction force is distributed on a larger surface area.

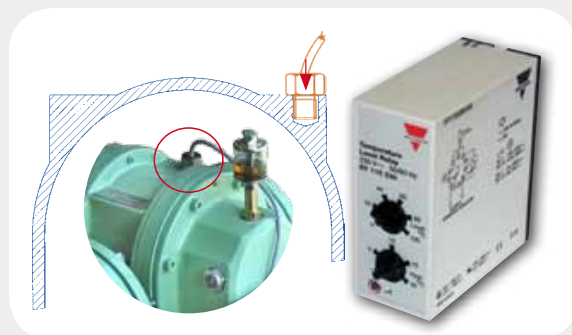


4 Wear Linings

Thanks to the replaceable wear linings, the service life is extended and spare parts costs are reduced.

The wear linings absorbs impact and stress from solids and grinding particles in the liquid.

Options



Dry Running Protection

A sensor terminates operation and prevents damage in case of dry running.

Standard Lobes in Viton

When pumping aggressive or hot liquids, the pump can be fitted with viton lobes that are heat resistant up to 120° Celsius.

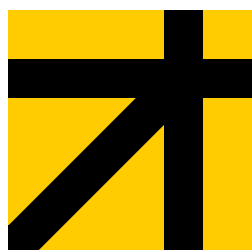
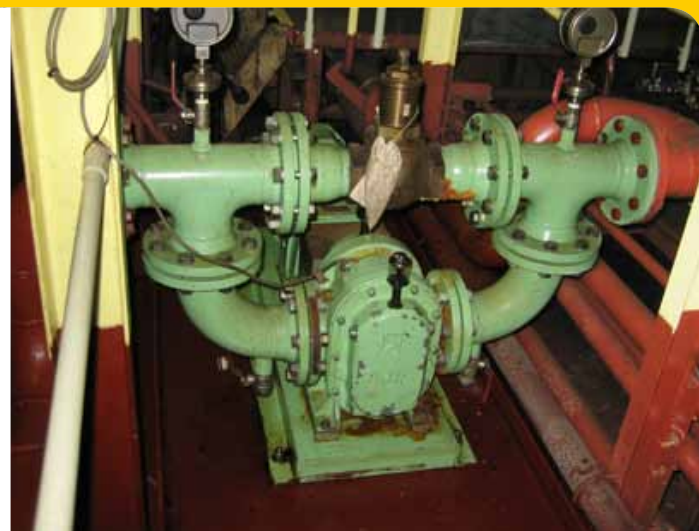
Wear Linings and Bolts in Stainless Steel

When pumping aggressive liquids, wear linings and bolts can be supplied in stainless steel AISI 316.

Wear Linings and Bolts in Chrome Hardened Steel

For particularly grinding liquids the wear linings and bolts can be supplied chromehardened steel.





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- pumps for all purposes



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