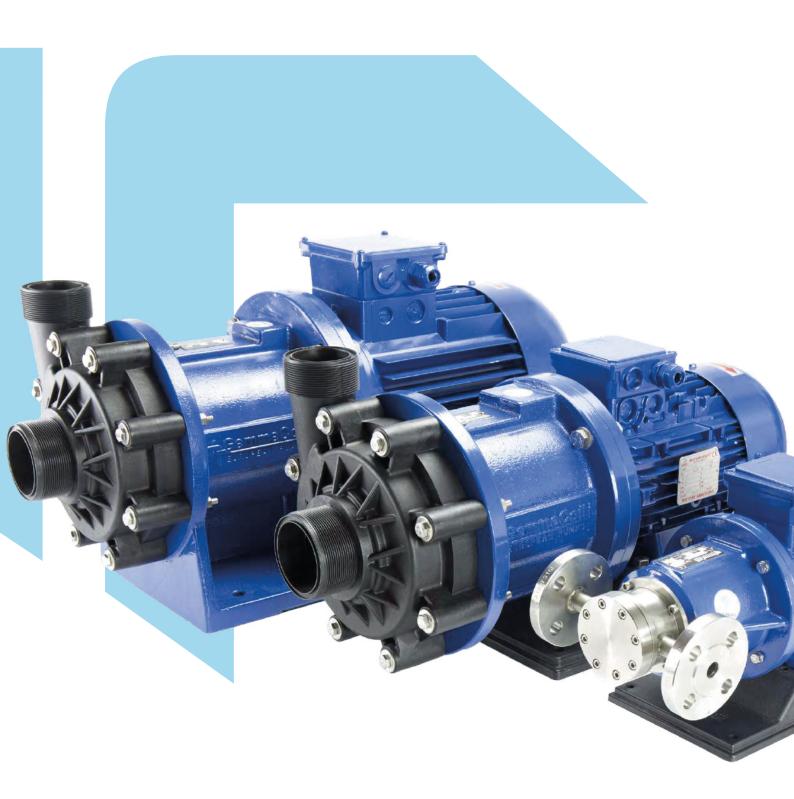
CHEMICAL PUMPS SINCE 1992





MAG DRIVE CENTRIFUGAL PUMPS

In seal-less magnetic drive centrifugal pumps, the external magnet is directly connected to the motor shaft and it transmits the torque to the internal magnet. The magnetic field created produces a rotation without physical contact between the parts so the impeller spins and moves the fluid. The rear casing is placed between the two magnet joints and it hermetically closes the hydraulic part from the motor.

HTM PP/PVDF



HCM PP/PVDF



HTM SS 316



TECHNICAL DATA

| | 50 HZ | 60HZ |
|---------------|-----------------------------|---------------|
| CAPACITY | 0,5 – 130 m ³ /h | 2-528 usgpm |
| MAX HEAD | 48 mlc | 148 ft |
| TEMPERATURE | 0° / +90°C | +32° / +190°F |
| MAX NP @ 20°C | 6 bar | 90 PSI |

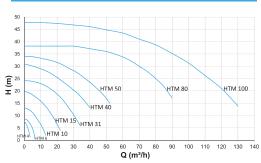
TECHNICAL DATA

| | 50 HZ | 60HZ |
|---------------|-----------------------------|---------------|
| CAPACITY | 0,5 – 130 m ³ /h | 2 - 660 usgpm |
| MAX HEAD | 48 mlc | 200 ft |
| TEMPERATURE | 0°/+90°C | 32° / +190°F |
| MAX NP @ 20°C | 6 bar | 90 PSI |

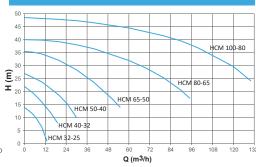
TECHNICAL DATA

| | 50 HZ | 60HZ |
|---------------|---------------------------|--------------|
| CAPACITY | 0,5 –32 m ³ /h | 3-175 usgpm |
| MAX HEAD | 24 mlc | 110 ft |
| TEMPERATURE | -40 / +160°C | -40 / +320°F |
| MAX NP @ 20°C | 10 bar | 150 PSI |

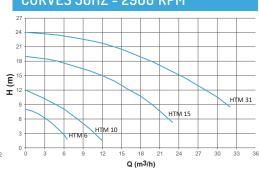
CURVES 50HZ - 2900 RPM



CURVES 50HZ - 2900 RPM



CURVES 50HZ - 2900 RPM



MAG DRIVE TURBINE PUMPS

In seal-less magnetic drive turbine pumps, the external magnet is directly connected to the motor shaft and it transmits the torque to the internal magnet. The magnetic field created produces a rotation without physical contact between the parts and the turbine spins and moves the fluid. The rear casing is placed between the two magnet joints and it hermetically closes the hydrauli part from the motor.

HTT



HTT-SP



HTA



TECHNICAL DATA

| | 50 HZ | 60HZ |
|---------------|---------------------------|--------------|
| CAPACITY | 0,2 – 9 m ³ /h | 1 - 47 usgpm |
| MAX HEAD | 50 mlc | 210 ft |
| TEMPERATURE | 0° / +90°C | 32° / +190°F |
| MAX NP @ 20°C | 6 bar | 90 PSI |

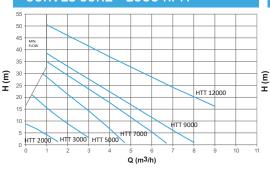
TECHNICAL DATA

| | 50 HZ | 60HZ |
|---------------|---------------------------|--------------|
| CAPACITY | 0,2 – 6 m ³ /h | 1 - 32 usgpm |
| MAX HEAD | 24 mlc | 110 ft |
| TEMPERATURE | 0° / +90°C | 32° / +190°F |
| MAX NP @ 20°C | 6 bar | 90 PSI |

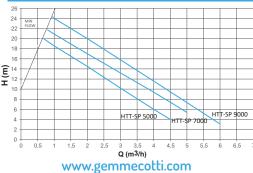
TECHNICAL DATA

| | 50 HZ | 60HZ |
|---------------|--------------------------|---------------|
| CAPACITY | 0,2 –7 m ³ /h | 2,6-35 usgpm |
| MAX HEAD | 76 mlc | 314 ft |
| TEMPERATURE | -40° / +160°C | -40° / +320°F |
| MAX NP @ 20°C | 25 bar | 360 PSI |

CURVES 50HZ - 2900 RPM



CURVES 50HZ - 2900 RPM



CURVES 50HZ - 2900 RPM



HTM-SP



HTP



HPP/HPF



TECHNICAL DATA

| | 50 HZ |
|-------------|----------------------|
| CAPACITY | 25 m ³ /h |
| MAX HEAD | 22 mlc |
| TEMPERATURE | 60°C |

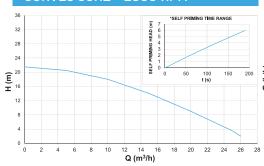
TECHNICAL DATA

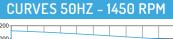
| | 50 HZ | 60HZ |
|---------------|----------------|----------------|
| CAPACITY | 120 – 2100 l/h | 0,5 - 11 usgpm |
| MAX HEAD | 13 bar | 188 PSI |
| TEMPERATURE | -40° / +160°C | -40° / +320°F |
| MAX NP @ 20°C | 25 har | 360 PSI |

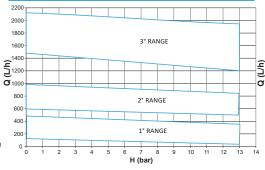
TECHNICAL DATA

| | 50 HZ | 60HZ |
|---------------|----------------|-----------------|
| CAPACITY | 100 – 1000 l/h | 0,1 - 3,5 usgpm |
| MAX HEAD | 5 bar | 72 PSI |
| TEMPERATURE | 0°/+90°C | 32° / +190°F |
| MAX NP @ 20°C | 5 bar | 72 PSI |

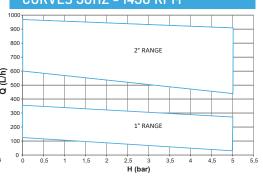
CURVES 50HZ - 2900 RPM







CURVES 50HZ - 1450 RPM



VERTICAL PUMPS

Vertical centrifugal pumps are suitable for installations with the column immersed directly in the tank.

HV



HVL



MECHANICAL SEAL CENTRIFUGAL PUMPS

Mechanical seal pumps are the right solution when pumping fluids containing solids in suspension.

HCO



TECHNICAL DATA

| | 50 HZ | 60HZ |
|-------------------|----------------------------|---------------|
| CAPACITY | 0,2 – 40 m ³ /h | 3 - 212 usgpm |
| MAX HEAD | 22 mlc | 104 ft |
| TEMPERATURE | 0°/+90°C | 32°/+190°F |
| MAX COLUMN LENGTH | 1000 mm | |

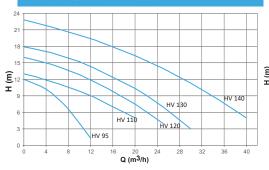
TECHNICAL DATA

| | 50 HZ | 60HZ |
|-------------------|-----------------------------|---------------|
| CAPACITY | 0,2 - 130 m ³ /h | 3 - 687 usgpm |
| MAX HEAD | 48 mlc | 227 ft |
| TEMPERATURE | 0° / +90°C | 32° / +190°F |
| MAX COLUMN LENGTH | 2000 mm | |

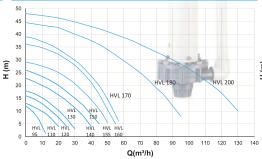
TECHNICAL DATA

| 50 HZ | 60HZ |
|----------------------------|--|
| 0,5 – 130m ³ /h | 3 - 687 usgpm |
| 48 mlc | 227 ft |
| 0° / +90°C | 32° / +190°F |
| 6 bar | 90 PSI |
| | 0,5 – 130m ³ /h 48 mlc 0° / +90°C |

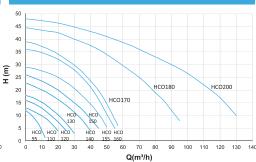
CURVES 50HZ - 2900 RPM



CURVES 50HZ - 2900 RPM



CURVES HCO PP/PVDF - 2900 RPM



www.gemmecotti.com

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS

VERTICAL CANTILEVER PUMPS

ATEX PUMPS



HAOD



PVA



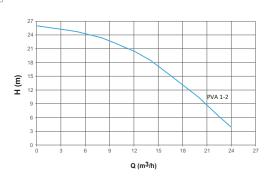
TECHNICAL DATA

| | 50 HZ |
|--------------------|--|
| CAPACITY | 21 – 310 l / min |
| MAX HEAD | 80 m |
| TEMPERATURE | PP 60°C - PVDF 95°C - AISI 316 95°C |
| MATERIALS | PP, PVDF, AISI 316 |
| IN-OUT CONNECTIONS | G 3/8", G 1/2", G 3/4", G 1", G 1 1/2" |

The double diaphragm pumps series HAOD is suitable to pump aggressive liquids, even with very high viscosity and solids in suspension. These pumps are built with an anti-stalling pneumatic circuit that ensures the highest possible level of security and efficiency and it doesn't require lubricated air. The HAOD pumps are available in several materials and dimensions and they can operate in potentially explosive atmospheres.

TECHNICAL DATA

| | 50 HZ | 60HZ |
|-------------|----------------------------|---------------|
| CAPACITY | 0,5 – 24 m ³ /h | 3 - 130 usgpm |
| MAX HEAD | 26 mlc | 100 ft |
| TEMPERATURE | 0°/+160°C | 32° / +320°F |





GemmeCotti ATEX certified pumps are suitable for zone 1 II 2G and zone 2 II 3G.

The ATEX certified pumps models available are:

- EM-C in PP or PVDF: only for zone 2 (see pump model HTM PP/PVDF)
- EM-T in PP or PVDF: only for zone 2 (see pump model HTT)
- EM-P in PP or PVDF: only for zone 2 (see pump model HPP/HPF)
- EM-T SP in PP or PVDF: only for zone 2 (see pump model HTT SP)
- EM-CO in PP or PVDF: only for zone 2 (see pump model HCO)
- EM-C in AISI316: for zone 1 and 2 (see pump model HTM SS316)
- EM-T in AISI316: for zone 1 and 2 (see pump model HTA)
- EM-P in AISI 316: for zone 1 and 2 (see pump model HTP)

ACCESSORIES

BASEPLATES

Baseplate in PP suitable for pumps complete with motors B3/B5. Available in 3 different dimensions:

- BASEPLATE TYPE "A" suitable for: IEC motors B3/B5 from size 56 to size 71
- BASEPLATE TYPE "B" suitable for: IEC motors from size 80 to size 90 and NEMA motors 56TC and 145TC.
- BASEPLATE TYPE "C" suitable for: IEC motors from size 100 to size 112 and NEMA motors 184TC.

DRY-RUNNING PROTECTION

To prevent damages to the pumps due to the lack of liquid, GemmeCotti supplies the dry running protection device. This device is particularly recommended during the operations of tanker unloading and for all the applications in which there is the risk of liquid shortage.

Thanks to the adjustable threshold and timer, it is possible to set up the minimum power and operation time of the device. If the power is lower than the set value, the pump will automatically stop.

Single Phase CURRENT RELAY Multirange 15-35A 2 set points MAX / min Also for motors with INVERTER



GemmeCotti pumps are usually supplied with threaded connections.

Upon request we can also supply DIN or ANSI flanges for thermoplastic pumps (flat stub + free flange) and welded DIN or ANSI flanges for AISI316 pumps.





CHEMICAL COMPATIBILITY GUIDE

| Legend: A= Very good B= Goo d C= Poor, not | t recom an ded D= Very poor , no t recomanded 1= Good until | | | 22°C (72°F) 2 = Good un til 48 °C (120°F) | | | |
|--|---|------|----------|--|-------|------|--|
| | PUMP MATERIALS | | | 0-RINGS MATERIALS | | | |
| CHEMICAL | PP | PVDF | AISI 316 | EPDM | VITON | PTFE | |
| ACETIC ACID | В | С | В | А | В | Α | |
| ACETIC ACID 20% | А | А | А | А | В | А | |
| ACETIC ACID 80% | А | С | В | А | В | А | |
| ACETIC ACID, GLACIAL | A1 | A1 | А | В | D | А | |
| ACETONE | А | D | А | А | D | А | |
| ALCOHOLS: ETHYL | А | А | А | А | А | А | |
| ALCOHOLS: ISOPROPYL | A2 | А | В | А | А | A2 | |
| ALCOHOLS: METHYL | A2 | А | А | А | С | А | |
| ALCOHOLS: PROPYL | А | A2 | А | А | А | А | |
| ALUMINIUM SULFATE | А | А | B2 | А | А | А | |
| AMINES | B2 | _ | А | В | D | A2 | |
| AMMONIA, LIQUID | A2 | А | A2 | А | D | А | |
| CHLORINE, ANHYDROUS LIQUID | D | A1 | С | В | А | А | |
| COPPER CHLORIDE | А | А | D | А | А | А | |
| COPPER SULFATE > 5% | А | А | В | А | А | А | |
| DETERGENTS | А | А | A1 | А | А | А | |
| ETHER | D | B1 | A | C | C | A | |
| FERRIC CHLORIDE | A | A | D | A | A | A | |
| FUEL | A1 | A | A1 | D | A | В | |
| FUEL OILS | A | В | A | D | A | В | |
| GASOLINE (HIGH - AROMATIC) | A | A | A | D | A | A | |
| GLUCOSE | A | A | A | A | A | A | |
| HYDRAULIC OIL (PETRO) | D | | | D | | | |
| | | A | A | | A | A | |
| HYDROCHLORIC ACID < 33% | A2 | A | D | A2 | A | A | |
| HYDROFLUORIC ACID 50% | D | A | D | D | В | A | |
| HYDROFLUORIC ACID 100% | C1 | A | B1 | D | В | A | |
| HYDROGEN PEROXIDE 10% | Α | A | В | A | A | A | |
| HYDROGEN PEROXIDE 30% | B1 | Α | В . | B - | A | A | |
| LACQUER THINNERS | D | - | А | D | D | А | |
| MOTOR O IL | A1 | В | A2 | D | - | А | |
| NAPHTHA | В | Α | А | D | А | В | |
| NICKEL CHLORIDE | А | А | С | A1 | А | Α | |
| OIL: HYDRAULIC OIL (SYNTHETIC) | D | А | А | А | Α | А | |
| OLIVE OIL | Α | - | А | D | А | A1 | |
| PHENOL (CARBOLIC ACID) | В | A1 | В | В | Α | Α | |
| PHOSPHORIC ACID < 40% | А | А | С | А | А | А | |
| PHOSPHORIC ACID > 40% | А | А | D | А | А | А | |
| PHOTOGRAPHIC DEVELOPER | А | - | А | В | А | Α | |
| ROSINS | A2 | - | A1 | - | А | Α | |
| SALT BRINE | А | А | A2 | Α | A2 | A2 | |
| SEA WATER | А | А | С | A2 | Α | Α | |
| SOAP SOLUTIONS | А | A1 | A1 | Α | Α | Α | |
| SODIUM BICARBONATE | А | А | A1 | A2 | А | А | |
| SODIUM BISULFITE | А | А | B1 | A2 | Α | Α | |
| SODIUM CARBONATE | А | А | А | A2 | А | А | |
| SODIUM CHLORIDE | А | А | В | А | А | А | |
| SODIUM HYDROXIDE (10%) | А | С | - | А | С | - | |
| SODIUM HYDROXIDE (40%) | А | С | - | А | С | - | |
| SODIUM HYDROXIDE (50%) | А | С | B1 | А | D | А | |
| SODIUM HYPOCHLORITE (100%) | С | А | С | B1 | A1 | А | |
| SODIUM HYPOCHLORITE 12,5% | С | А | С | А | А | А | |
| SULFURIC ACID (10-75%) | A1 | А | D | B2 | A2 | А | |
| SULFURIC ACID (75-100%) | C1 | А | D | B1 | A1 | А | |
| SULFURIC ACID 100% | D | D | А | D | А | А | |
| TIN SALTS | А | А | D | В | А | А | |
| TOLUENE (TOLUOL) | C1 | A1 | А | D | С | А | |
| UREA | А | А | В | А | А | А | |
| WATER, ACID, MINE | А | А | В | А | А | А | |
| WATER, DISTILLED | А | А | А | А | А | А | |
| | | | | | | | |

All the information in this chart is only approximate and should only be used for an initial choice of the type of materials best suited for the customers' pumps. The data comes from various highly reliable sources. Despite this, GemmeCotti itself did not carry out the relative tests, and is not responsible for the preciseness of the data. Therefore, GemmeCotti has no responsibility for possible malfunctions or damage of any type caused by the incorrect selection of construction materials and/or of the incorrect choice of pump size if it is not made by GemmeCotti itself after having received all suitable information regarding the application and the characteristics of the pumped liquid.



OUR COMPANY

GemmeCotti srl has been designing and manufacturing chemical pumps for acids and dangerous liquids since 1992, when its founders started their own company after considerable experience in pump design and production.

Over the years, GemmeCotti has created its own range of industrial pumps designed and manufactured by its experienced team of experts. We are now specialized in magnetic drive pumps, mechanical seal pumps and vertical pumps.

GemmeCotti pumps are valued worldwide and they are successfully used in many different industries including: chemical and petrochemical, pharmaceutical, oil refinery, electroplating, printed circuits, electronic, photography, military, water treatments, biotechnology, paper mills, textile, sugar plants, food processing, dairies and many others.









GEMMECOTTI SRL

Via A. Volta 85/A 20816 Ceriano Laghetto MB



Ph: +39 02.96460406 info@gemmecotti.com www.gemmecotti.com

100% MADE IN ITALY



