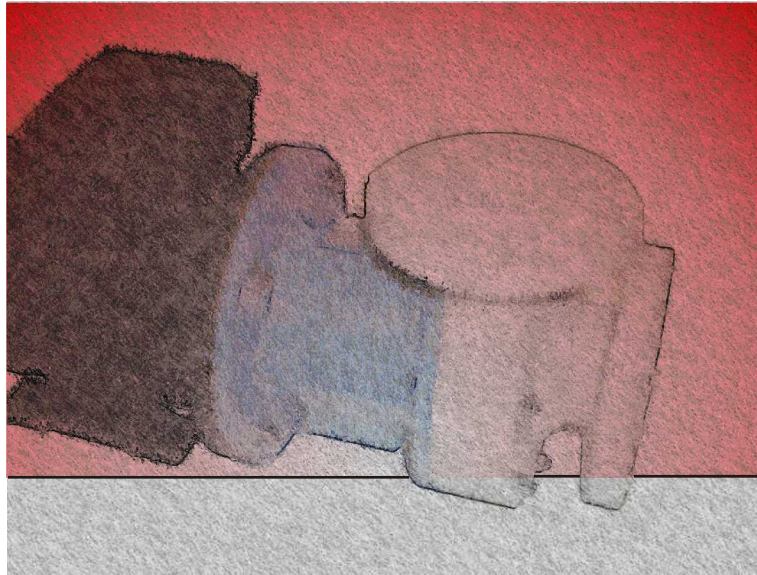


PCM Pumps

Magnetic Drive Pumps Machined from Techno polymers



The PCM range of centrifugal magnetic drive pumps is manufactured from solid polypropylene or PVDF to offer robust, chemically resistant pumps.

Reliable and Long Lasting

With no shaft seals, liquid cannot seep into the motor from the pump.

Chemically Resistant

Due to the range of construction materials a wide range of aggressive liquids can be pumped.

High Heads

The design of the PCM allows them to pump relatively high heads.

Self Priming

Self priming versions of the PCM 4x13, PCM 5x16 and PCM 6.7x17 are available.

Vertical Mounting

PCM pump models can be mounted vertically with the pump at the lowest point.

Robust

As PCM pumps are machined from solid plastic which gives them thick wall sections making them extremely robust.

Caster Equivalent

PCM pumps will directly replace Caster MCH pumps - see rear for details.

Short Lead times

Most PCM pumps are available within a 2-3 week lead time.

Design Flexibility

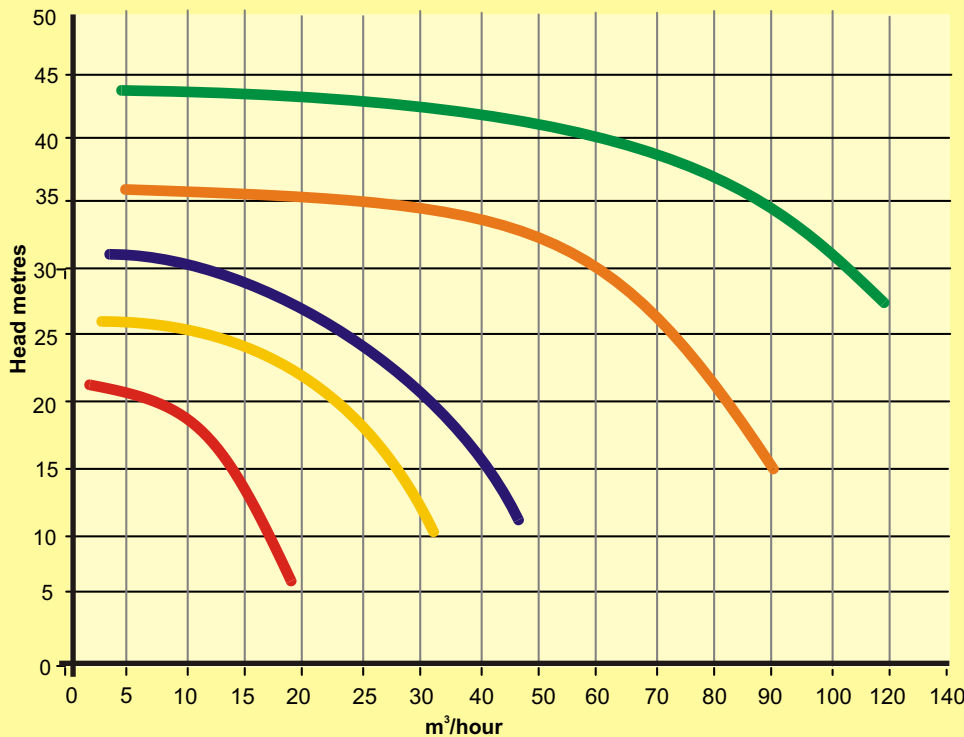
PCM pumps are available with a range of different drive magnets and motors to cope with high SG and viscous liquids.



All versions of the pumps can be ATEX approved to Equipment Category 2, (Gas Zone 1 and Dust Zone 21) and temperature rating T4.

PERFORMANCE

50 Hz, SG 1.0 2900 rpm



- PCM 8x18
- PCM 6.7x17
- PCM 5x16
- PCM 4x13
- PCM 3x12



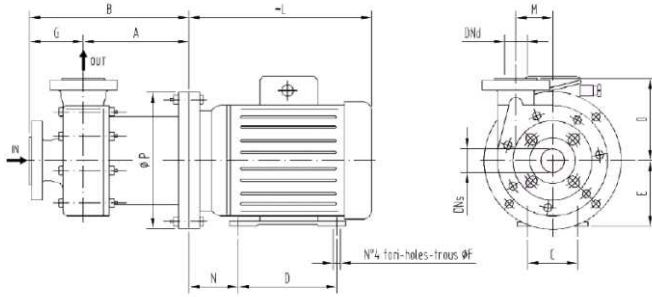
All PW plastic impellers can be trimmed at no extra cost to cater for higher SGs, viscous liquids and 60Hz duties.

These figures are indicative, please consult March May Ltd for exact performances.

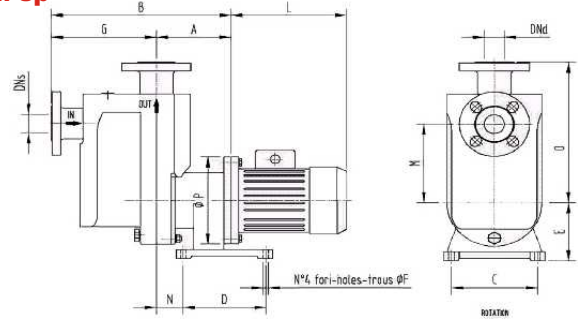
DIMENSIONS

Dimensions in mm not to scale specifications are subject to change

PCM



PCM-sp

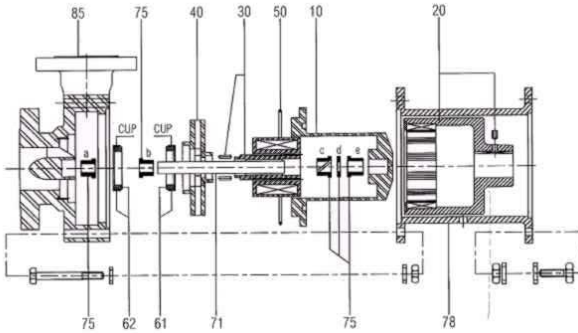


| Model | Inlet mm | Outlet mm | A mm | B mm | C mm | D mm | E mm | F mm | G mm | L mm | M mm | N mm | O mm | P mm | IEC frame | Kw 2 pole |
|---------------------|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|--------------|
| PCM 3 x 12 | 40 | 32 | 151 | 236 | 125 | 100 | 80 | 9 | 85 | 230 | 59 | 50 | 141 | 200 | 80 | 1.1 |
| PCM 4 x 13 | 50 | 40 | 184 | 268 | 155 | 193 | 136 | 12 | 84 | 270 | 63 | 65 | 149 | 200 | 90 | 2.2 |
| PCM 5 x 16 | 65 | 50 | 218 | 321 | 220 | 250 | 175 | 14 | 103 | 340 | 73 | 59 | 171 | 250 | 100/112 | 4.0 |
| PCM 6,5 x 17 | 80 | 65 | 247 | 368 | 250 | 290 | 200 | 16 | 121 | 402 | 82 | 73 | 198 | 300 | 132 | 9.0 |
| PCM 8 x 18 | 100 | 80 | 290 | 419 | 250 | 290 | 200 | 16 | 129 | 538 | 102 | 76 | 227 | 350 | 160 | 15 |

| Model | Inlet mm | Outlet mm | A mm | B mm | C mm | D mm | E mm | F mm | G mm | L mm | M mm | N mm | O mm | P mm | Kw 2 pole | |
|------------------------|-------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|-----|
| PCM-sp 4 x 13 | 40 | 40 | 184 | 398 | 155 | 193 | 136 | 12 | 214 | 270 | 170 | 65 | 305 | 200 | 90 | 2,2 |
| PCM-sp 5 x 16 | 50 | 50 | 178 | 447 | 220 | 250 | 175 | 14 | 269 | 340 | 228 | 20 | 372 | 250 | 100/112 | 4.0 |
| PCM-sp 6,5 x 17 | 65 | 65 | 203 | 529 | 250 | 290 | 200 | 16 | 326 | 402 | 233 | 29 | 374 | 300 | 132 | 9.0 |

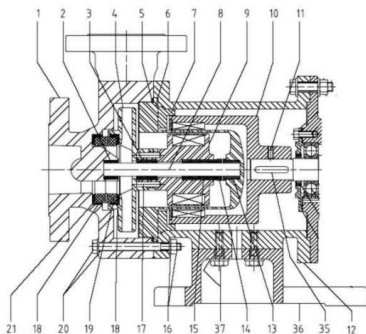
TYPICAL TECHNICAL DETAILS

Standard 3x12,



| Ref | Description | Standard | Optional |
|-----|-----------------------|---------------|-------------|
| 10 | Rear Casing | Polypropylene | PVDF |
| 20 | Drive magnet | Neodymium | |
| 30 | Impeller Magnet | Polypropylene | PVDF |
| 40 | Impeller | Polypropylene | |
| 50 | O Ring | EPDM | Viton |
| 62F | Imp Front Bearing | PTFEC | |
| 62R | Casing Thrust Bearing | Ceramic | PVDF |
| 71 | Shaft | Ceramic | SiC on 8x18 |
| 75 | Bearings | PTFEC | |
| 78 | Bracket | Cast Iron | |
| 85 | Front Casing | Polypropylene | |

Atex 4x13 and above



| Ref | Description | Standard | Optional |
|--------------|----------------|----------------|-------------|
| 1 | Pump head | Polypropylene | PVDF |
| 2, 3, 13, 14 | Bearings | PTFE | SiC |
| 4 | Impeller | Polypropylene | PVDF |
| 5 | O Ring | EPDM/Viton/FEP | |
| 6 | Rear Casing | Polypropylene | PVDF |
| 7 | Rub Ring | Bronze | |
| 8 | Shaft | Ceramic | SiC on 8x18 |
| 9 | Int Mag | Polypropylene | PVDF |
| 10 | Drive Magnet | Neodymum | |
| 18 | Holder | EPDM | Viton/PTFE |
| 21 | Thrust Bearing | PTFE | SiC on 8x18 |

Caster Equivalent

Virtually all March May PCM pumps are interchangeable with the original MCH range.

| Caster | | March May | |
|------------|----|--------------|----|
| MCH 40/32 | PP | PCM 3 x 12 | PP |
| MCH 40/32 | PV | PCM 3 x 12 | PV |
| MCH 50/40 | PP | PCM 4 x 13 | PP |
| MCH 50/40 | PV | PCM 4 X 13 | PV |
| MCH 65/50 | PP | PCM 5 x 16 | PP |
| MCH 65/50 | PV | PCM 5 x 16 | PV |
| MCH 80/65 | PP | PCM 6,5 x 17 | PP |
| MCH 80/65 | PV | PCM 6,5 x 17 | PV |
| MCH 100/80 | PP | PCM 8 x 18 | PP |
| MCH 100/80 | PV | PCM 8 x 18 | PV |

OTHER MAGNETIC DRIVE PUMPS

March May offers probably the largest range of magnetic drive pumps in the UK.



Large centrifugal
For aggressive chemicals.



single stage centrifugal
stainless steel ATEX rated
For milder chemicals



Single stage centrifugal
For milder chemicals.



Multi stage centrifugal
For mild or aggressive
liquids.



Brass centrifugal
For high temperature
liquids.



Single stage turbine
For mild or aggressive
liquids.



Submersible centrifugal
For milder liquids.

