

Mixing drum pumps in stainless steel and PP

(sealless version see separate brochure)

Product profile

A drum pump always consists of a pump tube and a drive motor. They are connected by a quick release coupling. All pump tubes can be combined with all motors. The mixing drum pump is fitted with mixing apertures. By moving a sliding sleeve with a lever, these holes can be opened or closed. Open is for mixing inside the drum and closed is for pumping out of the drum. All this can be achieved with one unit.

For drum pump accessories see pages 28 – 34.

Advantages



- **no inner-tube**
- easily accessible shaft
- easy to clean
- solid shaft
- robust mechanical seal



- **magnetic clutch**
- hermetically sealed
- for gaseous and dangerous liquids
- no leakage



- **multistage design**
- therefore lower speed, less wear, lower noise and longer life
- more stages possible, gives more pressure
- also **with feed-screw** for medium viscosity liquids



- **quick release coupling**
- speedy connection
- only 1/4 turn
- robust design
- rugged bow-gear coupling
- suitable for aggressive environments

OPERATING DATA PUMP TUBES

| pump tube | drive shaft | tube ø mm | number of impellers | t max °C | weight kg | immersion depth in mm | | |
|----------------|-------------|-----------|---------------------|----------|-----------|-----------------------|-----------|------|
| | | | | | | 700 | 1000 | 1200 |
| MP-PP-A | SS | 50 | 1 | 50 | 2,3 | | | |
| MP-PP-R | SS | 50 | 3 | 50 | 2,3 | | on demand | |
| MP-SS-A | SS | 50 | 1 | 100 | 4,2 | | | |
| MP-SS-R | SS | 50 | 3 | 100 | 4,5 | | | |

A = 1 axial impeller for high delivery rate

R = 3 radial impeller for high delivery head

PP = polypropylene, SS = stainless steel 1.4571

special immersion depth on request

OPERATING DATA DRIVE MOTORS

| universal motors | p310 | p310-A | p310-SR | p400 | p400-A | p400-A-SR | p400-A-MA | compressed air motor | |
|------------------|-------------|---------------|----------------|-------------|---------------|------------------|------------------|----------------------|-----------|
| | | | | | | | | d600 | |
| power | 520 Watt | 520 Watt | 520 Watt | 850 Watt | 850 Watt | 850 Watt | 700 Watt | power | 600 Watt |
| voltage | 230V / 50Hz | 230V / 50Hz | 230V / 50Hz | 230V / 50Hz | 230V / 50Hz | 230V / 50Hz | 230V / 50Hz | air pressure | 3 – 7 bar |
| protection class | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 | IP 54 | air consumption | 10 l/sec |
| weight | 3,5 kg | 3,5 kg | 3,5 kg | 4,0 kg | 4,0 kg | 4,0 kg | 5,8 kg | switch | yes |
| LVR | yes | no | no | yes | no | no | no | weight | 1,7 kg |
| order-no. | 500-0016 | 500-0017 | 500-0054 | 500-0023 | 500-0024 | 500-0056 | 500-0052 | order-no. | 520-0016 |

retrofit kit for magnetic clutch

order-no. 760-0050,
LVR = low voltage release,
other voltages see page 8



Applications

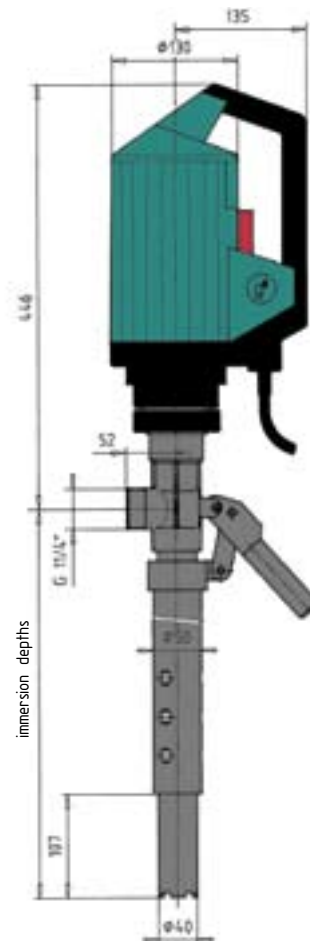
The mixing drum pump should be used for emulsions, dispersions or suspensions such as paints and lacquers. These liquids tend to separate when left to stand. With the mixing drum pump these liquids can first be mixed and then pumped with a single unit.

The pump tube in SS combined with an explosion-proof motor can be used for inflammable liquids (see page 26/27).

For chemical resistance of these pumps refer to the resistance table.

OPERATING DATA DRUM PUMPS

| | | MP-PP-A | MP-PP-R | MP-SS-A | MP-SS-R |
|--------------------------|---------------------------------|------------|------------|------------|------------|
| pump tube ▶ | | | | | |
| drive motor ▼ | | | | | |
| p310... | characteristic curve no. | A15 | R15 | A15 | R15 |
| max. delivery rate | l/min | 130 | 90 | 130 | 90 |
| max. delivery head | m wc | 6 | 14 | 6 | 14 |
| max. viscosity | mPas | 300 | 250 | 300 | 250 |
| max. density | g/cm ³ | 1,3 | 1,6 | 1,3 | 1,6 |
| weight motor + pump tube | kg | 5,8 | 5,8 | 8,0 | 8,2 |
| p400... | characteristic curve no. | A16 | R16 | A16 | R16 |
| max. delivery rate | l/min | 145 | 100 | 145 | 100 |
| max. delivery head | m wc | 7 | 15 | 7 | 15 |
| max. viscosity | mPas | 700 | 700 | 700 | 700 |
| max. density | g/cm ³ | 1,6 | 2,0 | 1,6 | 2,0 |
| weight motor + pump tube | kg | 6,3 | 6,3 | 8,5 | 8,7 |
| d600 | characteristic curve no. | A17 | R17 | A17 | R17 |
| max. delivery rate | l/min | 110 | 70 | 105 | 70 |
| max. delivery head | m wc | 4 | 10 | 4 | 10 |
| max. viscosity | mPas | 500 | 400 | 500 | 400 |
| max. density | g/cm ³ | 1,5 | 1,9 | 1,5 | 1,9 |
| weight motor + pump tube | kg | 4,0 | 4,0 | 6,2 | 6,4 |

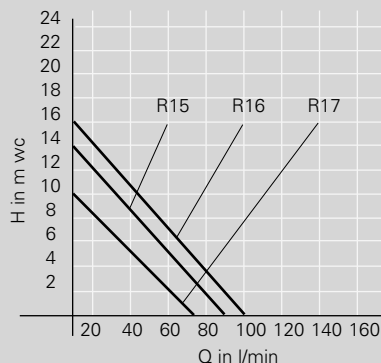
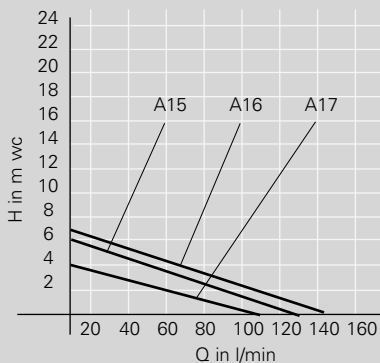


C

Mixing drum pumps in stainless steel and PP

CHAR. CURVES A

CHAR. CURVES R



Important:

- These drum pumps are not explosion-proof.
- Do not pump inflammable liquids.
- For explosion-proof drum pumps see pages 26 and 27.

Notes: