

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			p400				compressed air motor	d600
	p310	p310-A	p310-SR	p400	p400-A	p400-A-SR	p400-A-MA		
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

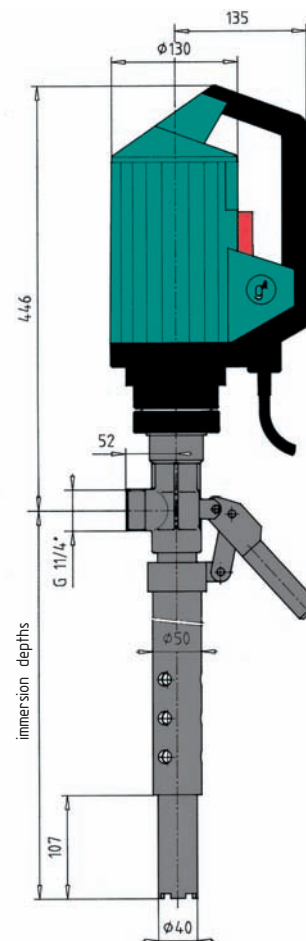
The mixing drum pump should be used for emulsions, dispersions or suspensions such as paints and lacquers. These liquids tend to separate when left to stand. With the mixing drum pump these liquids can first be mixed and then pumped with a single unit.

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

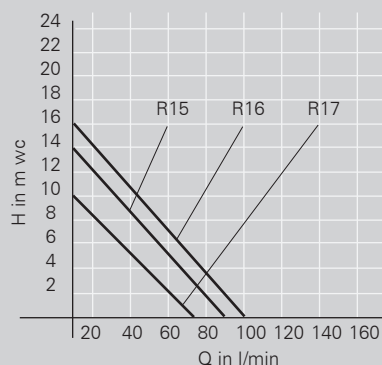
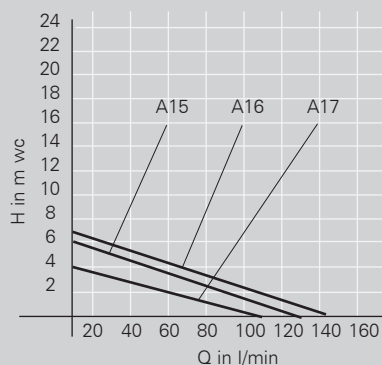


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Mixing drum pumps in stainless steel and PP

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: