

# Feed-screw 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 feed-screw drum pump has a feed-screw pumping-element, rather than impellers. For drum pump accessories see pages 28-34.



## Advantages



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




- with feed-screw
- for medium-viscous liquids
- smooth pumping of liquids
- low noise level with three-phase motor
- high performance with universal motor



- 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	feed screw	t max. °C	weight kg	immersion depth in mm		
					700	1000	1200
<b>PP-S-SS</b>	SS	PP	50	1,5	610-0018	610-0019	610-0020
<b>PP-S-HC</b>	HC	PP	50	1,6	610-0045	610-0046	610-0047
<b>SS-S</b> 	SS	PVDF	100	3,5	630-0035	630-0036	630-0037

PP = polypropylene, PVDF = polyvinylidene fluoride  
 SS = stainless steel 1.4571, HC = Hastelloy C-4  
 special immersion depth on request

## OPERATING DATA DRIVE MOTORS

	universal motors				three-phase-motors		
	p400	p400-A	p400-A-SR	p400-A-MA	pd500-1	pd500-3	pd500-3-EEx
power	850 Watt	850 Watt	850 Watt	700 Watt	0,37 kW	0,37 kW	0,37 kW
voltage	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V	430 V	400 V
protection class	IP 24	IP 24	IP 24	IP 54	IP 55	IP 55	IP 55
weight	4,0 kg	4,0 kg	4,0 kg	5,8 kg	5,0 kg	4,0 kg	4,0 kg
LVR	yes	no	no	no	yes	no	no
order-no.	500-0023	500-0024	500-0056	500-0052	500-0042	500-0039	510-0009

LVR = low voltage release, other voltages see page 8



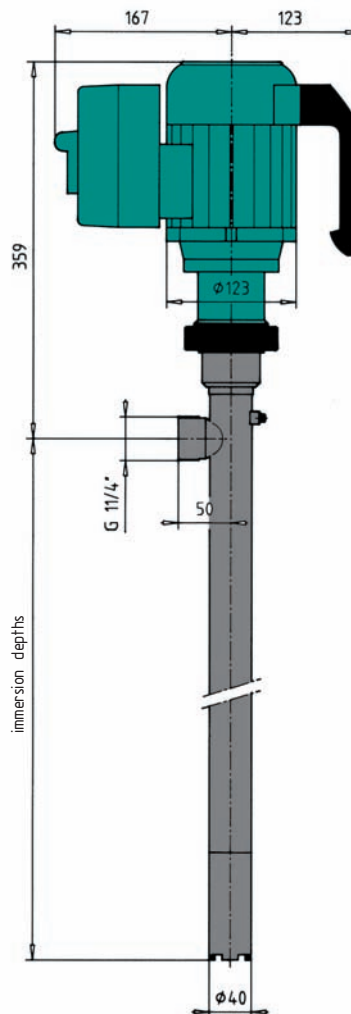
### Applications

The feed-screw drum pump is used for the smooth pumping of medium-viscosity liquids. They can be operated with a low-speed three-phase motor or a high-speed universal motor, according to the pumping requirements.

Because of the ease of access to the shaft the pump tube can be cleaned easily and quickly particularly with adhesive liquids. Specially suitable for paints, lacquers, mineral oils, vegetable oils, foods, cosmetics and many other products.

### OPERATING DATA DRUM PUMPS

pump tube ▶ drive motor ▼		PP-S SS/HC	SS-S
<b>pd500</b>	<b>characteristic curve no.</b>	<b>S1</b>	<b>S1</b>
max. delivery rate	l/min	10	10
max. delivery head	m wc	4	4
max. viscosity	mPas	1500	1500
max. density	g/cm <sup>3</sup>	1,9	1,9
weight motor + pump tube	kg	6,5	8,5
<b>p400...</b>	<b>characteristic curve no.</b>	<b>S2</b>	<b>S2</b>
max. delivery rate	l/min	60	65
max. delivery head	m wc	10	10
max. viscosity	mPas	700	700
max. density	g/cm <sup>3</sup>	1,9	1,9
weight motor + pump tube	kg	5,5	7,5

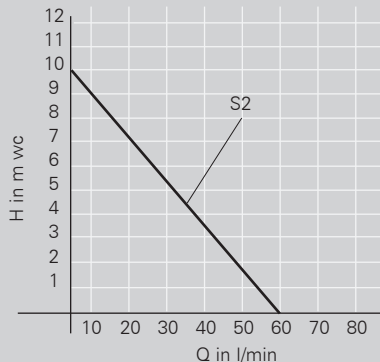
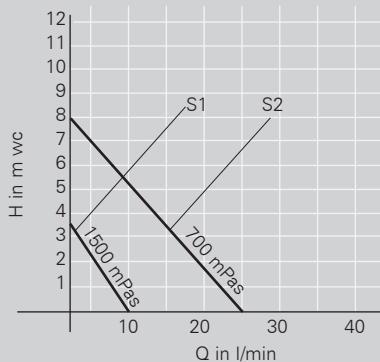


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### CHAR. CURVES FOR VISCOUS LIQUIDS

### CHAR. CURVES FOR WATER



### Important:

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

### Notes: