

Drum pumps in stainless steel (SS) and Hastelloy (HC)

(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.

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

ATEX Ex II 1/2 G c T3

pump tube	drive shaft	magnet clutch	number of impellers	t max. °C	weight kg	immersion depth in mm		
						700	1000	1200
SS-A	SS	no	1	100	3,0	630-0001	630-0002	630-0003
SS-R	SS	no	3	100	3,2	635-0001	635-0002	635-0003
SS-A-Mag	SS	yes	1	60	3,1	630-0004	630-0005	630-0006
SS-R-Mag	SS	yes	3	60	3,3	635-0004	635-0005	635-0006
HC-A	HC	no	1	100	3,0	640-0001	640-0002	640-0003
HC-A-Mag	HC	yes	1	60	3,1	640-0004	640-0005	640-0006

A = 1 axial impeller for high delivery rate

R = 3 radial impeller for high delivery head

Mag = magnetic clutch SS = stainless steel 1.4571 HC = Hastelloy C-4

special immersion depth from 200 – 3000 mm possible

OPERATING DATA DRIVE MOTORS

	universal motors	p310	p310-A	p310-A-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

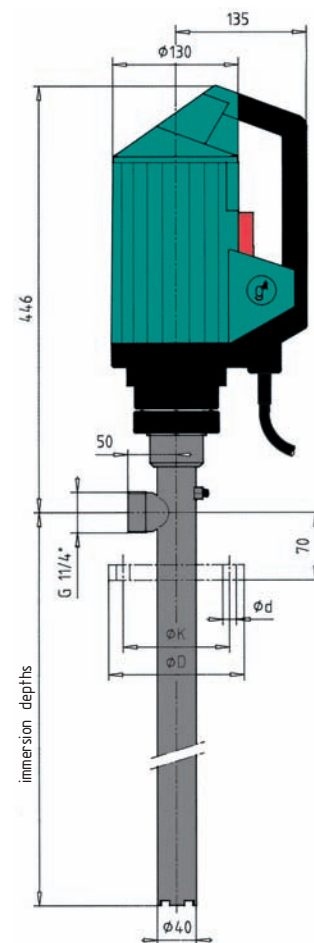
The drum pumps in **SS** without explosion proof motor are mainly used for pumping aggressive liquids like acids, caustics and other thin, low viscosity liquids. Specially suitable for: acids, alkalis, thin-bodied oils, vegetable oils, fruit-juices, milk, paints, inks and many others (see resistance table).

The drum pumps in **HC** without explosion proof motor are mainly used for pumping highly aggressive liquids (see resistance table).

Because of the ease of access to the shaft the pump tube can be cleaned easily and quickly particularly with adhesive liquids. Metal drum pumps have the advantage of being more rugged and robust than plastic pumps.

OPERATING DATA DRUM PUMPS

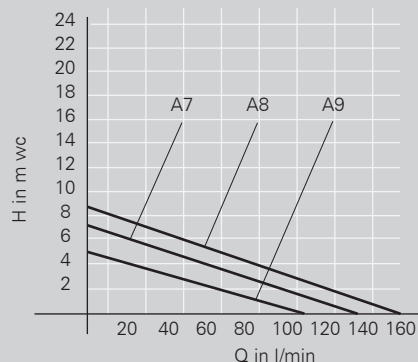
pump tube ► drive motor ▼		SS-A HC-A	SS-R	SS-A-Mag HC-A-Mag	SS-R-Mag
p310...	characteristic curve no.	A7	R7	A7	R7
max. delivery rate	l/min	165	110	165	110
max. delivery head	m wc	8	18	8	18
max. viscosity	mPas	300	250	50	50
max. density	g/cm ³	1,3	1,6	1,1	1,1
weight motor + pump tube	kg	6,5	6,7	6,6	6,8
p400...	characteristic curve no.	A8	R8	A8	R8
max. delivery rate	l/min	175	120	175	120
max. delivery head	m wc	8	22	8	22
max. viscosity	mPas	700	700	50	50
max. density	g/cm ³	1,6	2,0	1,1	1,1
weight motor + pump tube	kg	7,0	7,2	7,1	7,3
d600	characteristic curve no.	A9	R9	A9	R9
max. delivery rate	l/min	110	80	110	80
max. delivery head	m wc	5	12	5	12
max. viscosity	mPas	500	400	50	50
max. density	g/cm ³	1,5	1,9	1,1	1,1
weight motor + pump tube	kg	4,7	4,9	4,8	5,0



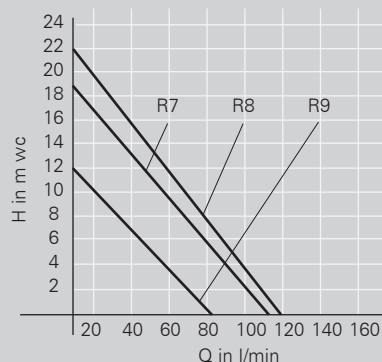
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Drum pumps in stainless steel (SS) and Hastelloy (HC)

CHAR. CURVES A



CHAR. CURVES R



Important:

- These combinations of pump tubes and drive motors are nonlicensed for hazardous locations.
- For application in hazardous locations you must use an explosion proof pump tube and an explosive proof drive motor.
- For explosion-proof drum pumps see pages 26 and 27.

Notes: