

WITH MECHANICAL SEAL  
AND SEALLESS

fine thing



# DRUM PUMPS STAINLESS STEEL

IF NO CONTAMINATION AND PRODUCT  
CARRYOVER IS ALLOWED



FOOD



BEVERAGE



PHARMACEUTICAL



COSMETICS

# Drum pumps stainless steel with mechanical seal (MS) and sealless (SL)

## DRUM PUMPS STAINLESS STEEL

IF EASY CLEANING, DURABILITY AND EXPLOSION-PROOF ARE REQUIRED



**PAINTS + COATINGS**



**ACIDS + BASES**



**SOLVENTS**



**SPECIAL APPLICATIONS, PLANT ENGINEERING**



# Our new pumps!

**The quickest way to get to know us is to contact us directly. Save your precious time.**

**Contact us and we will do the rest for you.**

Consulting service, product selection, project planning assistance and quote – fast and all free of charge.

## Advantages

more ...

- practical
- variable
- complete
- hygienic
- solid
- robust
- imaginative
- fit for use
- modular
- individual

## Sealed and sealless pumps types have grown closer to one another

The SD (Simple Disassembly) series is sealed with a mechanical seal (MS). In the SL series (sealless) there is an inner tube in the pump tube. The leakage unit depressurises the inner tube. The drive shaft is running within the inner tube. With no pressure difference between the inner tube and the outside ambient air no liquid can leave the pump, where the drive shaft comes out from the pump head. The pump is therefore always without leakage at the pump head.

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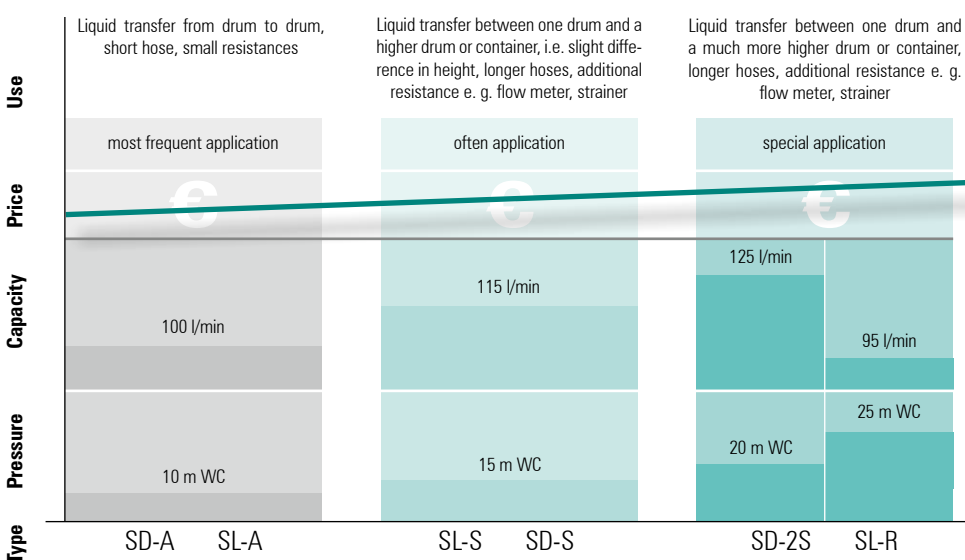
**In this booklet you will learn a lot about grün-drum pumps. We are sure you will experience proof of our commitments and product statements when using our equipment.**

**Online you can learn interesting facts about 'grün-business-philosophy' in a three minute audio slideshow.**

**Worth seeing.**









[www.gruen-pumpen.de](http://www.gruen-pumpen.de)

## The right pump for your application



# drum pumps stainless steel with features for the top position

## DRUM PUMPS STAINLESS STEEL

|  | Simple Disassembly<br>SD-SS-  | A   | S   | Sealles<br>SL-SS-   |
|--|---|---|---|---|
|  |    |  |  |    |
|  |   |   |   |    |
| <b>What is important for your application</b>    |   |   |   |   |
| large capacity                                   |   | X   |   |   |
| high pressure                                    |   |   | X   |   |
| viscosity up to 1.500 mPas (pd500)               |   |   | X   |   |
| hydraulic tuning                                 |   |   | X   |   |
| many different liquids                           |   |   |   | X   |
| mixing function                                  |   |   |   |   |
| simple disassembly (SD)                          | X   |   |   |   |
| easy to clean                                    | X   |   |   | X   |
| explosion proof                                  |  |   |   |  |
| continuous work with induction motor             |   |   | X   |   |
| <b>tube length</b>                               | container size  | ord.-no.  |   |   |
| 700 mm   | hobcock 30l   | 631-0001  | 631-0006  |   |
| 1000 mm  | drum up to 220 l  | 631-0002  | 631-0007  |   |
| 1200 mm  | IBC up to 1000 l  | 631-0003  | 631-0008  |   |
| > 1200 mm  | special container   | on demand   | on demand   |   |
| <b>electrical motors without explosion proof</b> |   |   |   |   |
| <b>p310</b> optimised in price                   | preferred combination   | X   |   |   |
| <b>p400</b> the ideal drive                      | improved hydr. performance  | X   | X   |   |
| <b>pd500</b> silent worker                       | smooth product treatment  |   | X   |   |
| <b>electrical motors with explosion proof</b>    |   |   |   |   |
| <b>EX700</b> for hazardous locations             | safety by power   | X   | X   |   |
| <b>pd500</b> Ex                                  | smooth product treatment  |   | X   |   |
| <b>compressed air motor for all applications</b> |   |   |   |   |
| <b>d600</b> for hazardous locations              | the power drive   | X   | X   |   |



| Misering Pump Sealless MP-SL-SS- |   |   | Magnetic Drive Mag-SS- |   |   |                     |   |
|----------------------------------|---|---|------------------------|---|---|---------------------|---|
| A                                | R | S | A                      | R | S | A                   | R |
|                                  |   |   |                        |   |   |                     |   |
| X                                |   |   |                        | X |   |                     | X |
|                                  | X | X |                        |   | X |                     |   |
|                                  |   | X |                        | X | X |                     |   |
|                                  | X | X |                        | X |   |                     |   |
|                                  |   |   | X                      |   |   | hermetically sealed |   |
|                                  |   |   | X                      |   |   |                     |   |
|                                  |   |   | X<br>                  |   |   | no                  |   |
|                                  |   | X |                        |   | X |                     |   |

|           | ord.-no.  |           |  | ord.-no.  |           |           | ord.-no. |           |           |
|-----------|-----------|-----------|--|-----------|-----------|-----------|----------|-----------|-----------|
| 691-0001  | 696-0001  | 691-0006  |  | 691-0011  | 696-0011  | 691-0016  |          | 631-0021  | 636-0021  |
| 691-0002  | 696-0002  | 691-0007  |  | 691-0012  | 696-0012  | 691-0017  |          | 631-0022  | 636-0021  |
| 691-0003  | 696-0003  | 691-0008  |  | 691-0013  | 696-0013  | 691-0018  |          | 631-0023  | 636-0021  |
| on demand | on demand | on demand |  | on demand | on demand | on demand |          | on demand | on demand |

|   |   |   |  |   |   |   |  |   |   |
|---|---|---|--|---|---|---|--|---|---|
| X |   |   |  | X |   |   |  | X |   |
| X | X | X |  | X | X | X |  | X | X |
|   |   | X |  |   |   | X |  |   |   |
| X | X | X |  | X | X | X |  |   |   |
|   |   | X |  |   |   | X |  |   |   |
| X | X | X |  | X | X | X |  |   |   |

# Drive motors, select the best drive for every

## p310 optimised in price

## p400 the ideal drive



### properties

short and occasional use,  
it likes light and thin liquids,  
internal cooling

big resources in power  
and durability,  
works quickly and saves time,  
internal cooling

### options

low voltage release (LVR)  
recommended according to  
EU-directives, speed redu-  
cer (SR) varies pressure and  
capacity

low voltage release (LVR)  
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EU-directives, speed reducer (SR)  
varies pressure and capacity,  
IP54 with TEFC (MA)

### data

power (W)

520

850

voltage (V)

230 | 120

230 | 120

protection class

IP24

IP24 / IP54 | IP24

LVR\*

optional

optional

SR\*\*

optional

optional

weight (kg)

3,5

4

max. spec. gravity (kg/l)

A | 1,4

Förderelement s.S. 4/5

A / R / S | 2 / 1,8 / 1,5

max. viscosity (mPas)

250

A / R / S | 800 / 600 / 500

with LVR\*

500-0016 | 500-0028

500-0023 | 500-0025

with SR\*\* and LVR

500-0074 | 500-0060

500-0069 | 500-0066

without LVR

500-0017 | 500-0029

500-0024 | 500-0026

without LVR with SR

500-0054 | 500-0057

500-0056 | 500-0063

magnetic clutch , LVR

500-0030 | 500-0032

500-0034 | 500-0036

magnetic clutch , LVR, SR

500-0061 | 500-0062

500-0067 | 500-0068

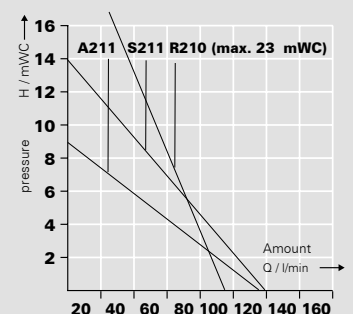
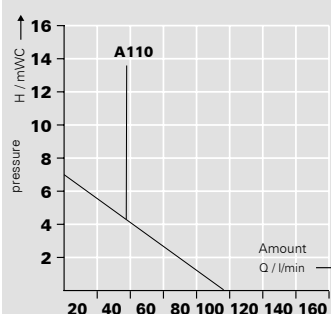
TEFC (MA) IP54

500-0072

### characteristics

\* low voltage release  
\*\* speed reducer

recommended types



# application

## Ex700

safety through power in hazardous locations



big resources in power and durability, certified for the most liquids, external cooling (TEFC)

without LVR available for special applications

## pd500

the silent marathon worker



New connection technology: metal replaces plastic, robust for use in harsh environments

robust, without wear, powerful for viscous liquids, smooth product treatment with feed screw (S) 2800 rpm

single phase induction motor 230 V, three phase 230/400 V, explosion proof 3- phase 230/400 V, overload protection switch

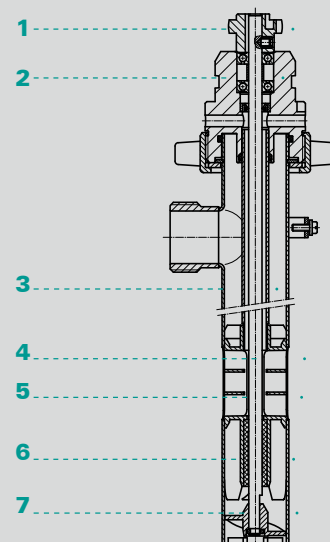
## d600

the power drive for all locations



for heavy duty applications, economical air consumption, certified for hazardous locations, starting knob fixable, lightweight

- |                  |        |
|------------------|--------|
| 1. coupling      | PA     |
| 2. pump head     | SS     |
| 3. pump tube     | SS     |
| 4. Drive shaft   | SS     |
| 5. inner tube    | SS     |
| 6. slide bearing | Carbon |
| 7. Impeller      | ETFE   |



|                            |                 |
|----------------------------|-----------------|
| 700                        |                 |
| 230                        |                 |
| IP54                       |                 |
| EU-directive               |                 |
| -                          |                 |
| 6                          |                 |
| type of impeller s. p. 4/5 |                 |
| A / R / S                  | 1,8 / 1,6 / 1,4 |
|                            | 600 / 500 / 400 |

|                                      |         |
|--------------------------------------|---------|
| 370 und 550                          |         |
| 230                                  | 400     |
| IP54                                 |         |
| optional                             |         |
| frequency inverter ord.-no. 760-0198 |         |
| 5                                    | 5       |
| type of impeller s. p. 4/5           |         |
| S: 2                                 | S: 2,5  |
| S: 1500                              | S: 1800 |

|                            |                 |
|----------------------------|-----------------|
| 600                        |                 |
| compressed air             | 3-7 (bar)       |
| air consumption            | 15 (l/s)        |
| -                          | -               |
| weight (kg)                | 2               |
| type of impeller s. p. 4/5 |                 |
| A / R / S                  | 2 / 2 / 2       |
| A / R / S                  | 800 / 800 / 800 |

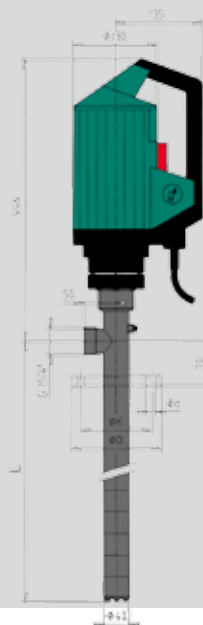
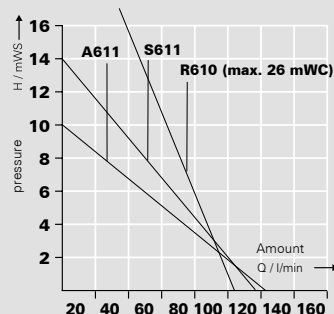
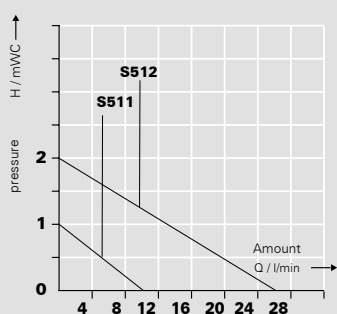
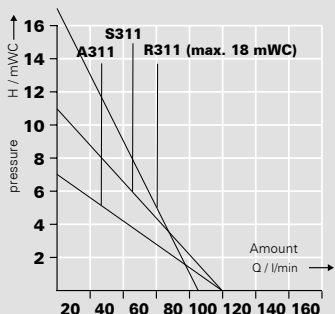
ord.-no  
510-0010

510-0012

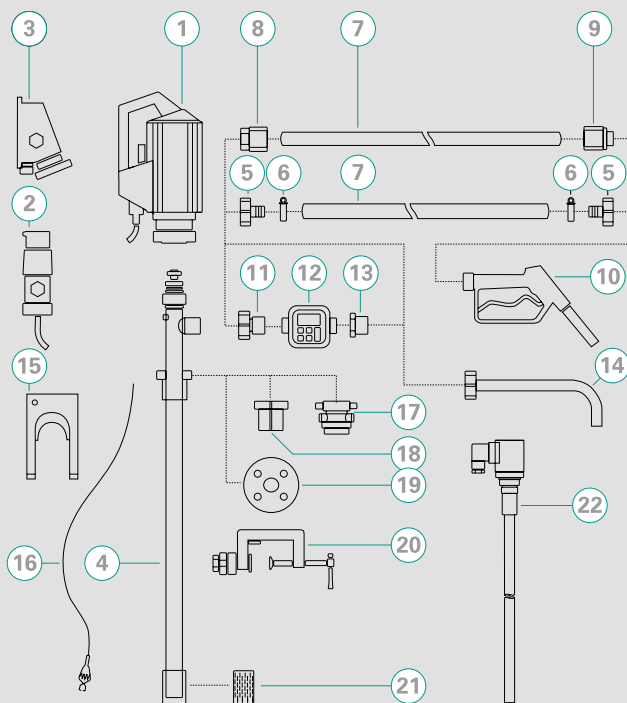
|         |                       |          |
|---------|-----------------------|----------|
| ord.-no | pd500-1-0,55-230      | 500-0044 |
|         | pd500-3-0,37 230/400  | 500-0039 |
|         | pd500-FU-0,55 kW      | 500-0043 |
|         | pd500 Ex-0,37 230/400 | 510-0009 |

AtEx

ord.-no  
520-0016



# ACCESSORIES



- 1 Drive motor
- 2 Explosion-proof plug
- 3 Explosion-proof socket
- 4 Pump tube
- 5 Hose connector
- 6 Hose clamps
- 7 Hose
- 8 Hose fittings
- 9 Hose fittings
- 10 Nozzle
- 11 Flow meter connection
- 12 Flow meter
- 13 Reducing piece
- 14 Discharge spout
- 15 Wall bracket
- 16 Equipotential bonding cable
- 17 Emission proof drum adapter
- 18 Drum adapter
- 19 Installation flange
- 20 Clamping device
- 21 Foot strainer
- 22 Level switch

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