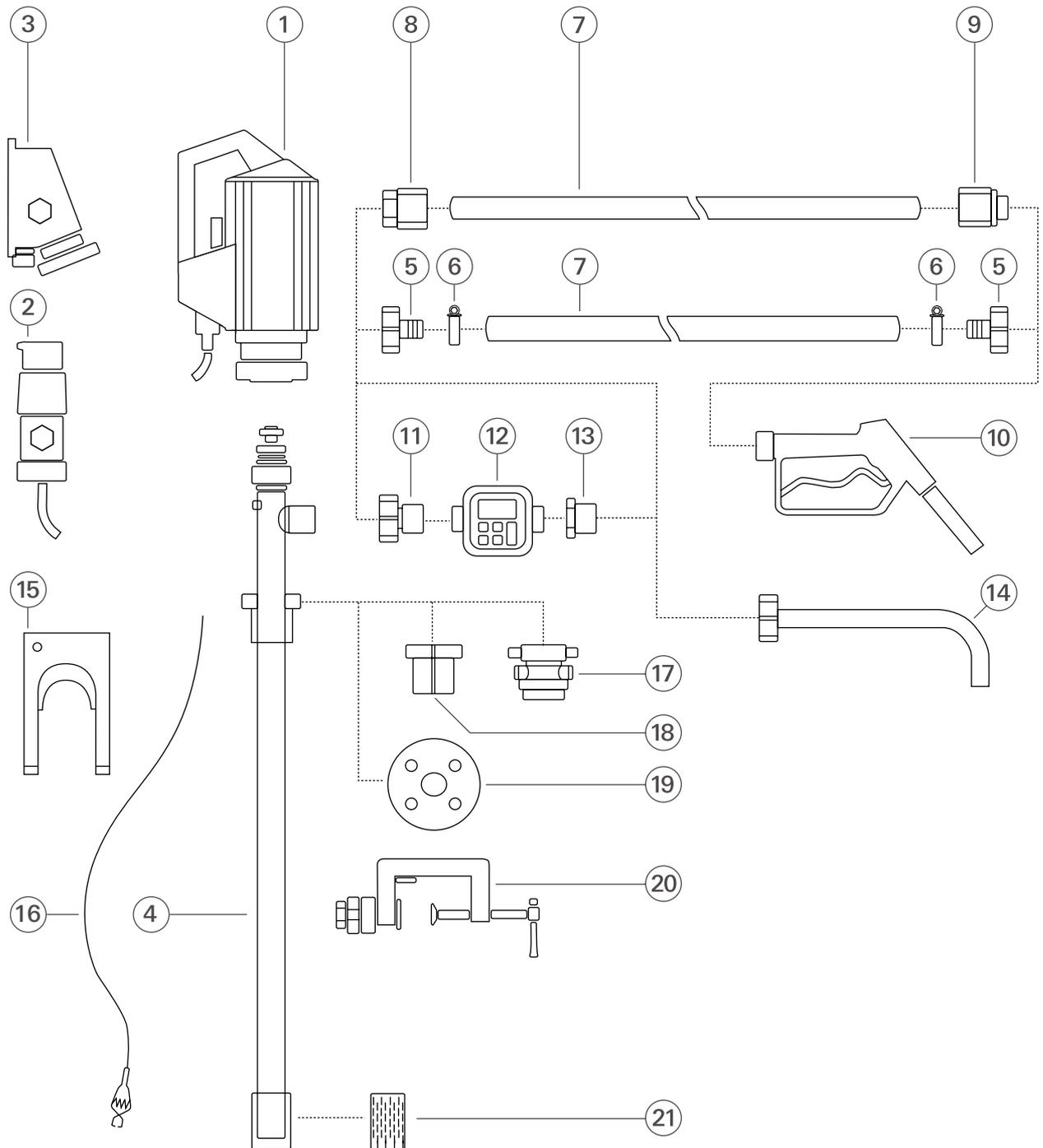


Accessories



- 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 bounding cable
- 17 Emission proof drum adapter
- 18 Drum adapter
- 19 Installation flange
- 20 Clamping device
- 21 Foot strainer

description ▼

data ▼

order-no. ▼

**Hose connector
with wing nut**

 for connecting the hoses
to the drum pump

data	order-no.
PP	ND 19 825-0005 ND 25 825-0006 ND 32 825-0007
PVDF	ND 19 825-0008 ND 25 825-0009 ND 32 825-0010
stainless steel	ND 19 825-0011 ND 25 825-0012 ND 32 825-0013
HC	ND 19 on demand ND 25 825-0015 ND 32 on demand


Hose fittings

 for linking electrically conductive
hoses to ensure elimination of
electrostatic charges.

 For mineral oil hose, solvent hose,
chemical hose and chemical hose
high-resistant.

data	order-no.
stainless steel 1.4571 for hose ND 25	IT G 11/4 825-0001 AT G 1 825-0020 IT G 1 825-0021
brass for hose ND 25	IT G 11/4 825-0002 AT G 1 825-0022 IT G 1 825-0023

 IT = inner thread
OT = outer thread

Hose clamps

to fix hoses at the hose connector

data	order-no.
stainless steel	ND 19-25 825-0003 ND 25-32 825-0004


Hoses
PVC – reinforced

 for aggressive, non-inflammable
liquids like acids and caustics

data	order-no.
operating pressure	ND 19 820-0001
max. 10 bar	ND 25 820-0002 ND 32 820-0003

PVC – clear, oil resistant

for mineral oils

data	order-no.
operating pressure	ND 19 820-0028
max. 3 bar	ND 25 820-0027 ND 32 820-0029

Mineral oil hose

 NBR liner, electrically conductive,
for petrol, diesel oil, fuel oil and petroleum

data	order-no.
operating pressure	ND 19 820-0010
max. 10 bar	ND 25 820-0011 ND 32 820-0012

Solvent hose

 EPDM liner, electrically conductive,
for alcohols, benzene, toluene,
acetone, glycols, softener oils, acids, caustics etc.

data	order-no.
operating pressure	ND 19 820-0004
max. 16 bar	ND 25 820-0005 ND 32 820-0006

Chemical hose

 PE-X liner, electrically conductive,
for approx. 95% of all industrial chemicals

data	order-no.
operating pressure	ND 19 820-0007
max. 16 bar	ND 25 820-0008 ND 32 820-0009

Chemical hose high resistant

 FEP-liner, electrically conductive, for high-
aggressive acids and caustics and nearly all liquids

data	order-no.
operating pressure	ND 19 820-0015
max. 16 bar	ND 25 820-0016 ND 32 820-0017

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Accessories

description ▼ data ▼ order-no. ▼

Equipotential bonding cable
for electrically conductive connection
between pump and drum or container,
prevent electrostatic charges

2m with clips

815-0005



Foot strainer
to protect drum pump for
coarse impurities

PP, ø 40 mm
stainless steel, ø 40 mm

840-0002
840-0003



Wall bracket
for safe keeping of drum pumps

steel varnished

840-0004



Barrel adapter
for fixing a drum pump in the
barrel opening

PP, ø 40 mm, outer thread G 2
SS, ø 40 mm, outer thread G 2

840-0006
840-0005



Clamping device
to fix a drum pump in an
opentopped barrel or container

stainless steel,
for pump tube ø 40 mm

840-0008

Discharge spout
with wing nut
connection thread G 1 1/4

PP
PVDF
stainless steel

840-0021
840-0023
840-0022



Installation flange
for fixing drum pumps
ND 50, NP 6

PP
PVDF
stainless steel
HC

840-0009
840-0011
840-0013
840-0015



Connecting flange
for flanging on to piping
ND 32, NP 6

PP
PVDF
stainless steel

840-0010
840-0012
840-0014

Maintenance unit
for compressed air motors
to clean and oil the supply air

operation pressure max. 10 bar

850-0001

Compressed air connector
outer thread G 3/8, hose liner ND 9

850-0002



Compressed air hose
PVC-reinforced, ND 9

850-0003

Connection cable
as replacement or extension
cable

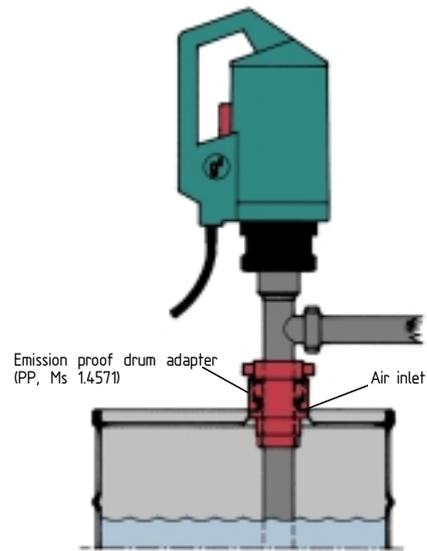
for motors p310, p400 2-core
for motors ex300 3-core
for motors pd500 4-core

810-0001
810-0002
810-0003



Emission proof drum adapter ESA

The emission proof drum adapter ESA, locks the pump tube in the drum opening and seals the opening around the tube. ESA prevents gas from leaking out of the drum opening into the environment. To avoid a vacuum, generated when pumping the liquid out of the drum, ESA has a valve, which allows air outside to enter the drum when a low pressure is created. If no liquid is pumped from the drum, then the valve remains closed and keep the gas inside the drum. ESA is available in different materials for all pump tubes with tube diameter 40 mm.



Emission proof drum adapter

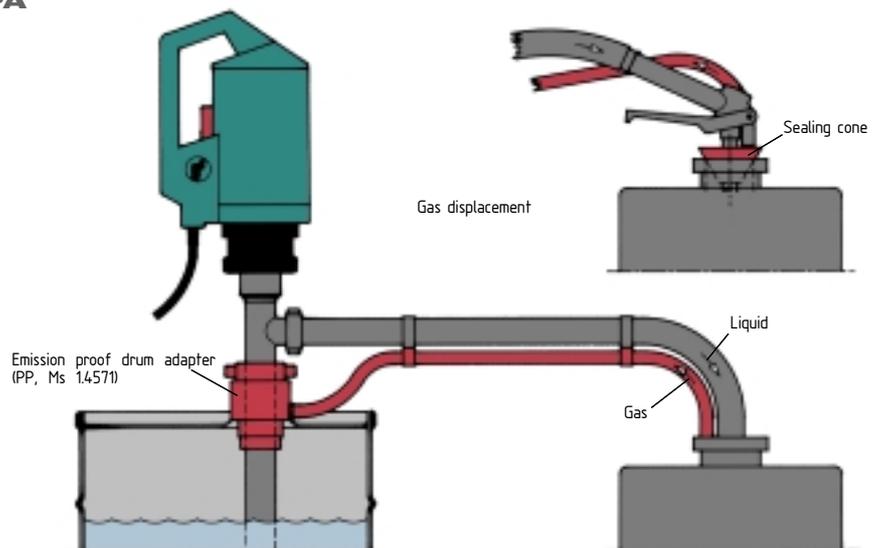
for drum opening G 2 and
pump tube \varnothing 40 mm

PP
brass
stainless steel

840-0095
840-0096
840-0097

Gas displacement system GPA

The drum adapter with gas displacement system GPA secures the pump tube in the drum opening and also seals the opening around the pump tube. The GPA allows the exchange of gas via a small hose between the container to be emptied and the container to be filled. The gas volume displaced by filling the container may flow back into the container where the liquid is pumped out. With the GPA it is possible to create a closed circulation system which prevents any flammable gas from escaping into the environment. GPA is available in different materials for all pump tubes with 40 mm tube diameter.



Gas displacement barrel adapter

for drum opening G 2 and pump
tube \varnothing 40 mm, with hose liner ND 9
for gas displacement hose

PP
brass
stainless steel

840-0098
840-0099
840-0100

Emission proof sealing cone

for gas displacement nozzle,
with hose liner ND 9 for gas
displacement hose

PP
PTFE

840-0101
840-0102

Gas displacement hose

ND 9

PVC-reinforced
NBR liner, conductive

850-0003
820-0014

Gas displacement nozzle

outlet tube \varnothing 20 mm

PP, with hose liner ND 25
SS, with outer thread G 1

830-0031
830-0032

Flow meter

Flow meter electronic FM

The flow meter type FM is used to measure the volume of thin, low viscosity liquids. It can be mounted onto a drum pump or integrated into the pipeline.

The measuring principle is based on a radial turbine impeller. Because of the very low pressure losses it can be used with a very low pre-pressure. The pressure created when emptying a container is sufficient.

The measured value is transmitted sealless and contactless through magnets, so that there is a leakage-free separation between the wet and the dry area.

The conversion of the measured value is done through an electronic part with a display on it. Power is provided by extra long life lithium-batteries (service life 5 years).

The display is clear and readable and has two lines. The first big line (12 mm figures,

6-digit) shows the topical datas in litre. The second smaller line (6 mm figures, 6-digit) shows the total volume or a user-orientated partial-sum.

The clear foil-keyboard is easy to handle.

The display housing can be rotated in 90° steps.

Easy calibration regarding to the liquid.

For processing of measured values the flow meter can be fitted with an impulse-adapter.

For different liquids there are different materials.



POM

for diesel oil, fuel oil, anti-freeze and other neutral liquids

PP

for acids and caustics

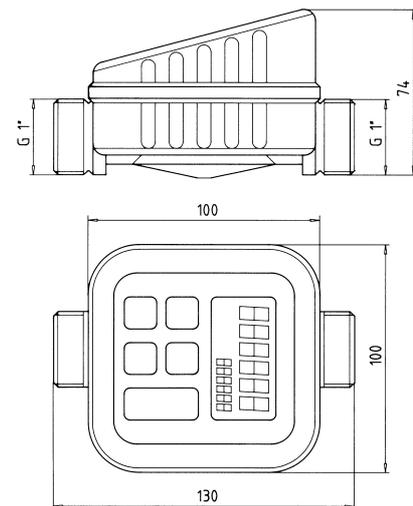
PVDF

for highly aggressive acids, caustics and solvents

OPERATING DATA FLOW METER

Typ		FM – POM	FM – PP	FM – PVDF
measuring principle		radial turbine impeller		
material:	housing	POM	PP	PVDF
	turbine	POM	PP	PVDF
	shaft	SS	HC	HC
	seal	NBR	FPM	FPM
flow range		20 – 125 l/min		
accuracy		±1 %		
operating pressure		max. 2 bar		
burst pressure		10 bar	4 bar	4 bar
temperature		-10 to +40 °C		
connection		outer thread G 1		
weight		0,3 kg		
order-no.		860-0007	860-0008	860-0009

POM = Polyoxymethylene HC = Hastelloy C-4 SS = stainless steel 1.4571
 PP = Polypropylene NBR = Perbunan
 PVDF = Polyvinylidene fluoride FPM = fluorine rubber



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Accessories/
Flow meter

OPERATING DATA CONNECTION PIECES FOR FLOW METER

description	flow meter	connecting thread	material	order-no.
flow meter connection onto the drum pump (inlet)	FM-POM		SS, NBR	825-0046
	FM-POM	inner thread	brass, NBR	825-0047
	FM-PP	G 1 1/4 – G 1	PP	825-0048
	FM-PVDF		PVDF,FPM	825-0066
reducing piece (outlet)	FM-POM		SS, NBR	825-0070
	FM-POM	inner thread G 1 -	brass, NBR	825-0067
	FM-PP	outer thread G 1 1/4	PP	825-0068
	FM-PVDF		PVDF,FPM	825-0069

Flow meter

Flow meter electronic EDM Explosion-proof EEx ia IIC T6

The flow meter type EDM is used to measure the volume of thin, low viscosity and also inflammable liquids. It is mainly designed to integrate into a pipeline or hoseline.

The measuring principle is based on an axial turbine impeller. Because of the very low pressure losses it can be used with a very low pre-pressure.

The measured value is transmitted sealless and contactless through magnets, so that there is a leakage-free separation between the wet and the dry area.

The conversion of the measured value is done through an electronic part with a display on it. Power is provided by extra long life lithium power cells (service life up to

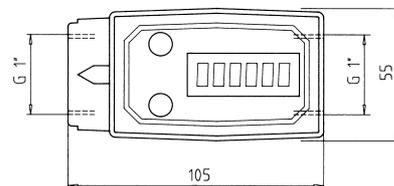
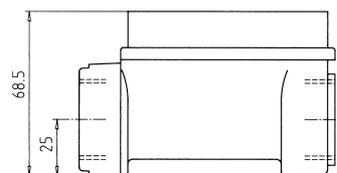
4.000 hours).

The display shows a resettable batch total and a non-resettable cumulative total.

Easy calibration regarding to the liquid.

For processing of measured values the flow meter can be fitted with an impulse-adapter.

For different liquids there are different materials.



Nylon

for neutral liquids

Stainless steel (SS)

for aggressive liquids

type ▶		EDM-Nylon	EDM-SS
measuring principle		axial turbine impeller	axial turbine impeller
material:	housing	Nylon	stainless steel
	turbine	Nylon	PVDF
	bearing	ceramic	ceramic
	shaft	tungsten carbide	tungsten carbide
	magnet	ferrit	PVDF covered
flow range		10 – 190 l/min	10 – 190 l/min
accuracy		±1 %	±1 %
operation pressure		10 bar	50 bar
temperature		-10 to +60 °C	-10 to +60 °C
connection		inner thread G 1	inner thread G 1
protection class		EEx ia IIC T6	EEx ia IIC T6
weight		0,3 kg	1,0 kg
order-no.		860-0003	860-0006

Questionnaire for our offer

1. Medium

- 1.1 Type _____ chemical formula _____
- 1.2 Concentration _____ %
- 1.3 Density _____ g/cm³
- 1.4 Viscosity _____ mPas/cP at _____ °C
- 1.5 Operating temperature _____ °C
- 1.6 Suspended solids _____ g/l hard soft particle size _____ mm
- 1.7 Does the medium tend to crystalize? yes no at _____ °C
- 1.8 Which materials according to your experience are resistant against the medium (tubes, fittings)? _____

2. Operating conditions

- 2.1 Capacity flow _____ m³/h or l/min
- 2.2 Delivery head (including pipework resistance) _____ m wc
- 2.3 Operating conditions? portable permatent vertical horizontal
- 2.4 Immersion depth _____ mm flange yes no
- 2.5 Drum aperture diameter _____ mm
- 2.6 Strainer yes no
- 2.7 Operating hours per day _____ closing frequency _____

3. Motor

- 3.1 AC DC three phase current compressed air
- 3.2.1 Voltage _____ Volt / Frequency _____ Hz
- 3.2.2 Pressure _____ bar
- 3.3 Flame proof required? yes no
- Class of hazard: _____ Protection: _____
- Special requirements: _____

4. Offer to

- Company: _____
- Address: _____
- Telephone: _____ Telefax: _____
- Date: _____ Signature: _____

