Flexible to use.
A wide array of possibilities:

- Food, gourmet and beverage industry
- Chemical industry
- Petrochemicals
- Chemicals and mineral oils
- Machine shops and metal working
- Automotive industry and suppliers
- Electroplating and surface treatment
- Paint and varnish industry
- Pharmaceuticals and cosmetics
- Plant and apparatus construction
- Engineering and design

Outstanding user-friendliness.

The first flow meter with a **touch screen display** and backlighting will convince
you with its simple requirements-oriented display and usability, multilingual inter-
face and compact design.

With plain-text instructions, system reports and help texts, as well
as **monitoring functions**, its user controls practically eliminate errors.
Manual operation is just as possible as external control.

■ **In Touch with the Future.**

Simply easy to use:
Flow measurement
with volume preselection.

The relay module – an intelligent cornerstone of Lutz meter innovation – helps you automate work processes and organize more efficiently.

The desired volume can simply be preselected and started with the touch of a button. Whether for mobile use with a drum pump or for controlling complex systems: With easy volume preselection, your processes will be simpler and safer. The pump, the system and/or the solenoid valve are turned on and off by the integrated electronics.
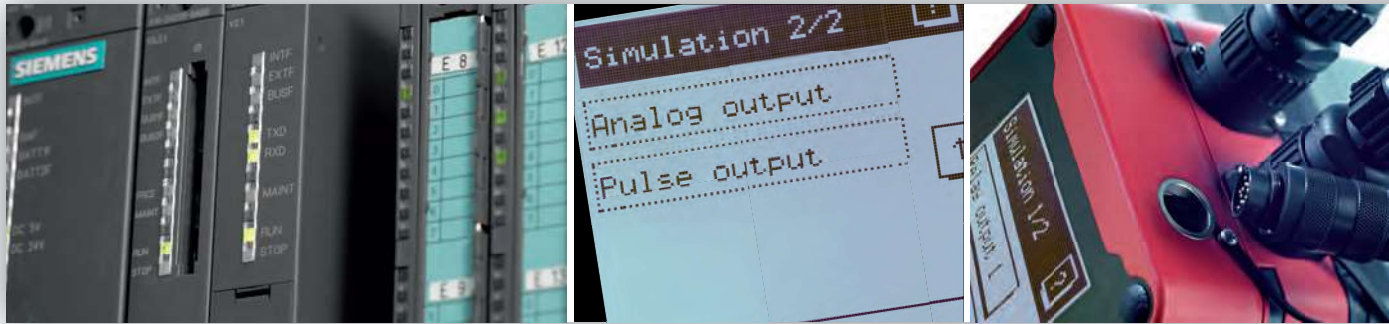
■ Precise, safe and economical.

Combine to your needs.
Easy to assemble.

The Lutz flow meter can be connected to your system quickly and with no wiring work, using socket connections that can't be confused. The new connection system is assembled like a modular design, allowing individual modules, such as the basic meter, control unit and relay module, to be combined with each other and installed.

The flexible meter system you can rely on.

■ **Simple installation and start-up**

■ **External controls and data evaluation through standard interfaces**

■ **Modules can be installed separately by location**

■ **Always the best technical and financial solution**

Flow measurement with volume preselection - TS

for non inflammable liquids

Flow meters type VA10 in PURE-version are optionally available for the food-, cosmetics and pharmaceutical industry.

Technical data		Type ST10 / RM10 230 V	Type SL10 / RM10 230 V	Type VA10 / RM10 230 V
Range of use		Neutral liquids like water, mineral oils.	Abrasive liquids like acids and alkalis.	Many acids, alkalis and other medias.
Flow volume	l/min.	min. 10 – max. 100**	min. 10 – max. 100**	min. 10 – max. 100
Temperature	°C	60	60	80
Viscosity	mPas	2,000	2,000	5,000
Operating pressure	bar	4	4	10
Accuracy		± 1% standard < 1% with adjustment to application conditions	± 1% standard < 1% with adjustment to application conditions	± 1%
Inlet port		G 2 outer thread to fit connector with union nut	G 2 outer thread to fit connector with union nut	G 1 1/4 outer thread
Outlet port		G 1 1/4 outer thread	G 1 1/4 outer thread	G 1 1/4 outer thread
LCD display		Touch-Screen 63x63 mm 128x128 pixels Display sub-total and total volume can be reset		
Menu language		DE, GB, ES, FR, IT, NL, PT, RU		
Materials: Housing Measuring chamber Seals Magnet		PPO PPO/PPS FPM BaFe / PA / Stainless steel 1.4401	PPO PPO/PPS FPM PPS encapsulated	Stainless steel (1.4581/1.4571)* Stainless steel (1.4581/1.4571) ETFE / PTFE FEP ETFE encapsulated
Protection class		IP 55	IP 55	IP 55
Weight	kg	1.6	1.6	4.1
Relay module RM10				
Voltage	V	220-240		
Frequency	Hz	50-60		
Switching outputs		2 NO (potentially bound)		
Output 1 (pump)		8 A, cos > 0.7		
Output 2 (valve)		0.5 A		
Order No.		**0231-001**	**0231-011**	**0231-041**

* Special materials on request   General information to the chemical resistance of the different flow meters you will find in our chemical resistance list.
** Short-time 120 l/min.

Flow measurement with volume preselection - TS

for highly inflammable liquids

EC 1935/2004 FDA

Flow meters type VA10 in PURE-version are optionally available for the food-, cosmetics and pharmaceutical industry.

MAINS OPERATION

Technical data		Type LM10 / Ex-RM10mK	Type UN10 / Ex-RM10mK	Type VA10 / Ex-RM10mK
Range of use		Solvents and many other easily inflammable liquids, oils and neutral liquids.	Solvents and easily inflammable liquids, most of acids and alkalis.	Nearly all solvents and easily inflammable liquids. Many acids, alkalis and other liquids.
Flow volume	l/min.	min. 10 – max. 100**	min. 10 – max. 100**	min. 10 – max. 100
Temperature	°C	40	40	40
Viscosity	mPas	2,000	2,000	5,000
Operating pressure	bar	4	4	10
Accuracy		± 1% standard < 1% with adjustment to application conditions	± 1% standard < 1% with adjustment to application conditions	± 1%
Inlet port		G 2 outer thread to fit connector with union nut	G 2 outer thread to fit connector with union nut	G 1 1/4 outer thread
Outlet port		G 1 1/4 outer thread	G 1 1/4 outer thread	G 1 1/4 outer thread
LCD display		Touch-Screen 63x63 mm 128x128 pixels Display sub-total and total volume can be reset		
Menu language		DE, GB, ES, FR, IT, NL, PT, RU		
Materials: Housing Measuring chamber Seals Magnet		PPS LCP FEP BaFe / MS / Stainless steel 1.4401	PPS LCP FEP PPS encapsulated	Stainless steel (1.4581/1.4571)* Stainless steel (1.4581/1.4571) ETFE / PTFE FEP ETFE encapsulated
Type of protection: Operating unit Basic flow meter		II 2 GEx IIB T4*** II 2 G T4	II 2 GEx IIB T4*** II 2 G T4	II 2 GEx IIB T4*** II 2 G T4
Protection class		IP 55	IP 55	IP 55
Weight	kg	4.3	4.3	6.7
Relay module Ex-RM10m				
Voltage	V	220-240		
Frequency	Hz	50-60		
Switching outputs		2 NO (potentially bound)		
Output 1 (pump)		5 A, cos > 0.7		
Output 2 (valve)		0.5 A		
Type of protection		II 2 GEx me [ib] IIC T4		
Order No.		**on request**		

* Special materials on request   General information to the chemical resistance of the different flow meters you will find in our chemical resistance list.
** Short-time 120 l/min.
*** Protection class II 2 G Ex IIC T4 on request
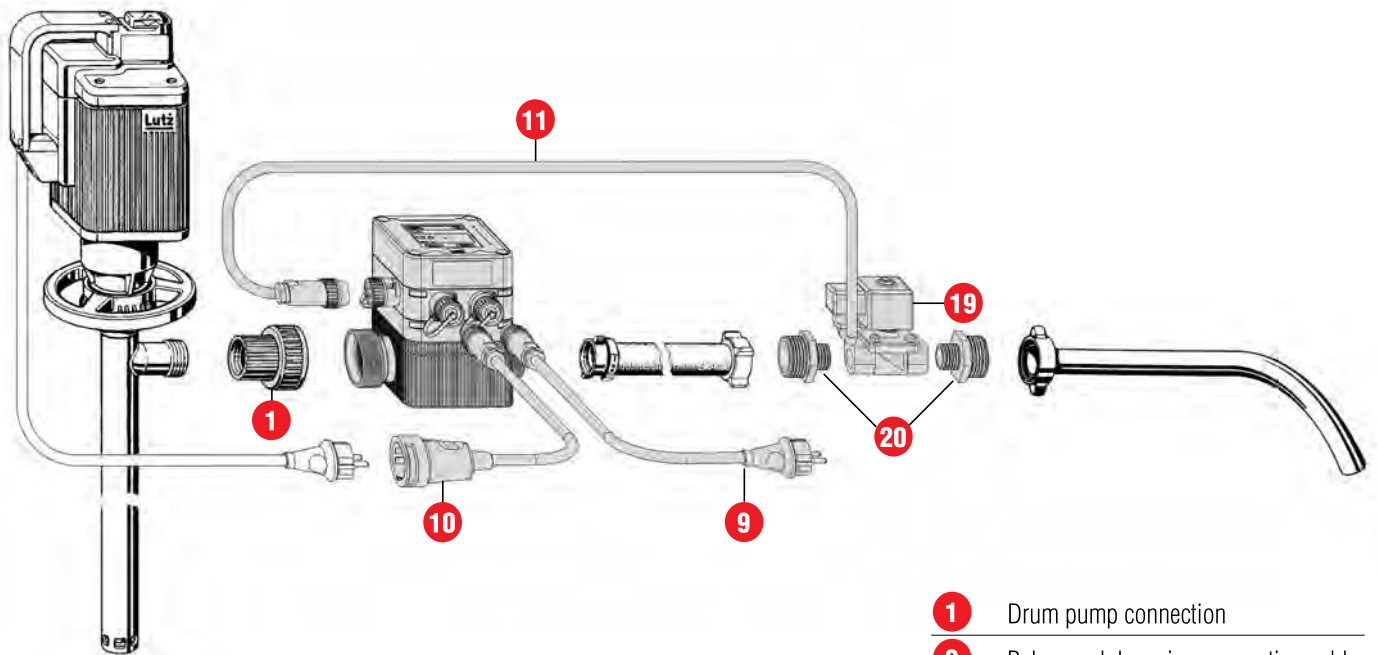
Accessories Lutz Flow Meter Program

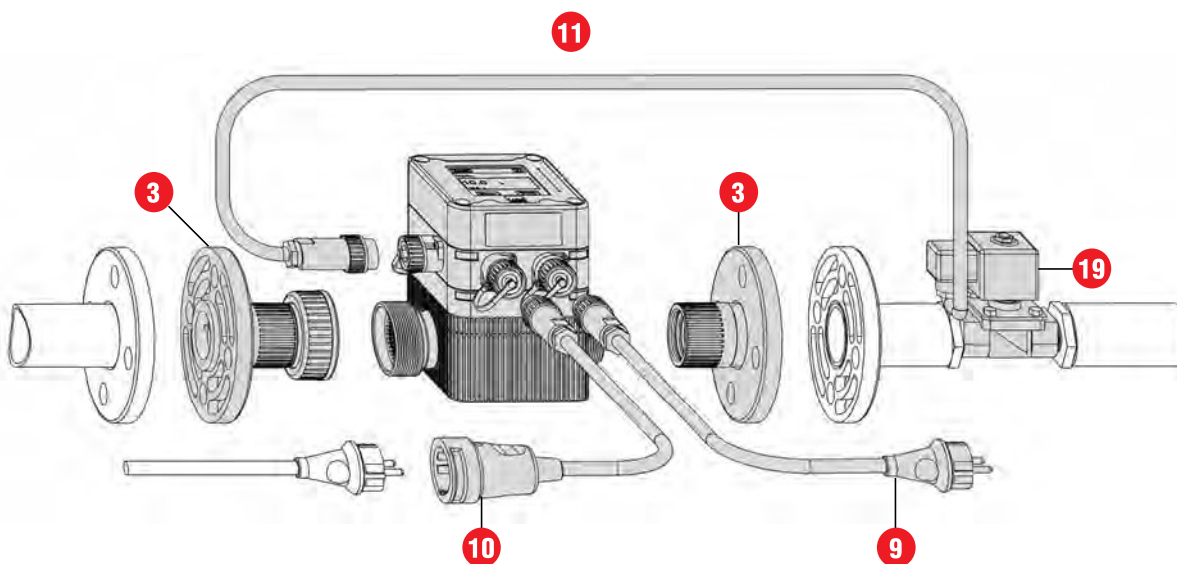for mobile and stationary applications

Take control

The comprehensive range of accessories makes it possible to install the flow meter onto a pump or into a pipe line. With appropriate connecting cables the system is immediately ready for use.

... Thread version

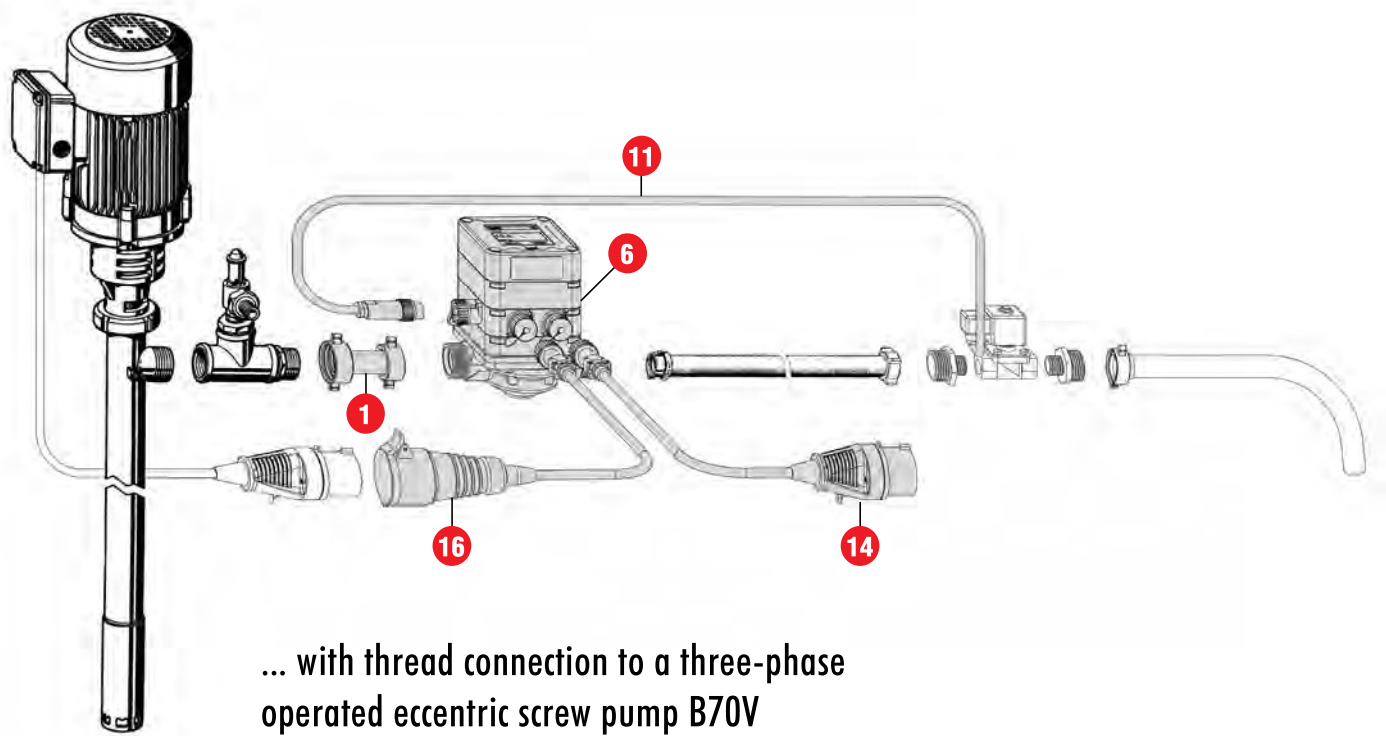|	
1	Drum pump connection
9	Relay module mains connection cable
10	Motor/Slow connection cable, single
11	Main valve connection cable
19	Solenoid valve
20	Double nipple

... Flange version

3	Flange connection
9	Relay module mains connection cable
10	Motor/Slow connection cable, single
11	Main valve connection cable
19	Solenoid valve

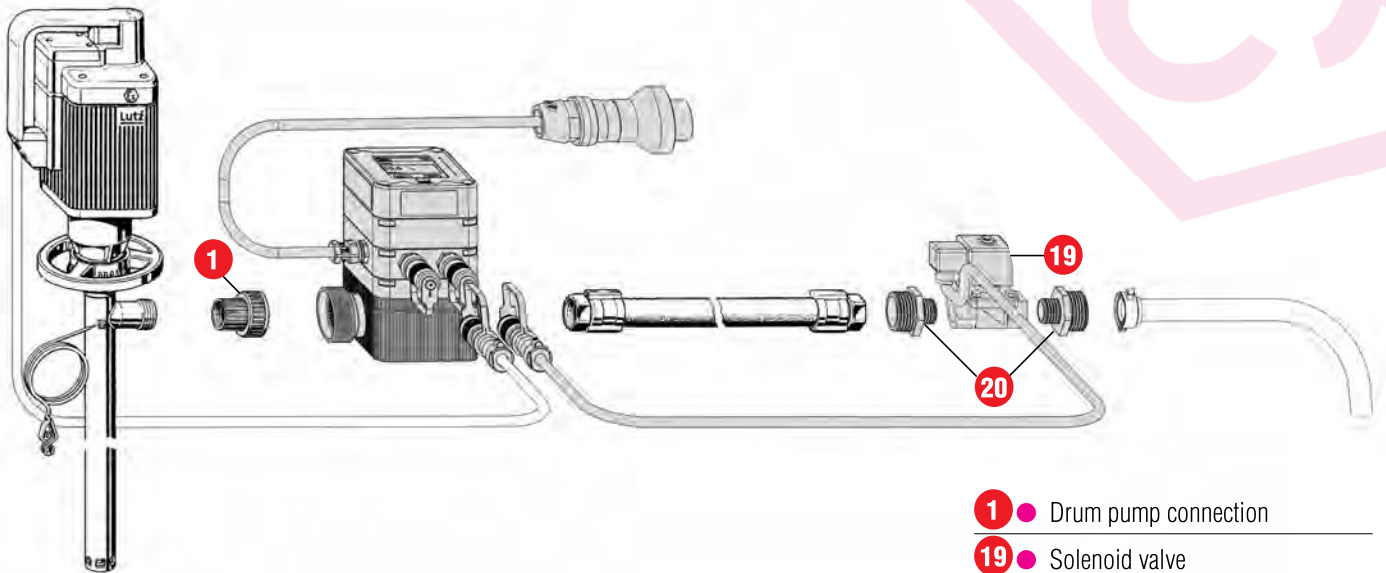# Accessories

Flow measurement with volume preselection ...

... with thread connection to a three-phase
operated eccentric screw pump B70V

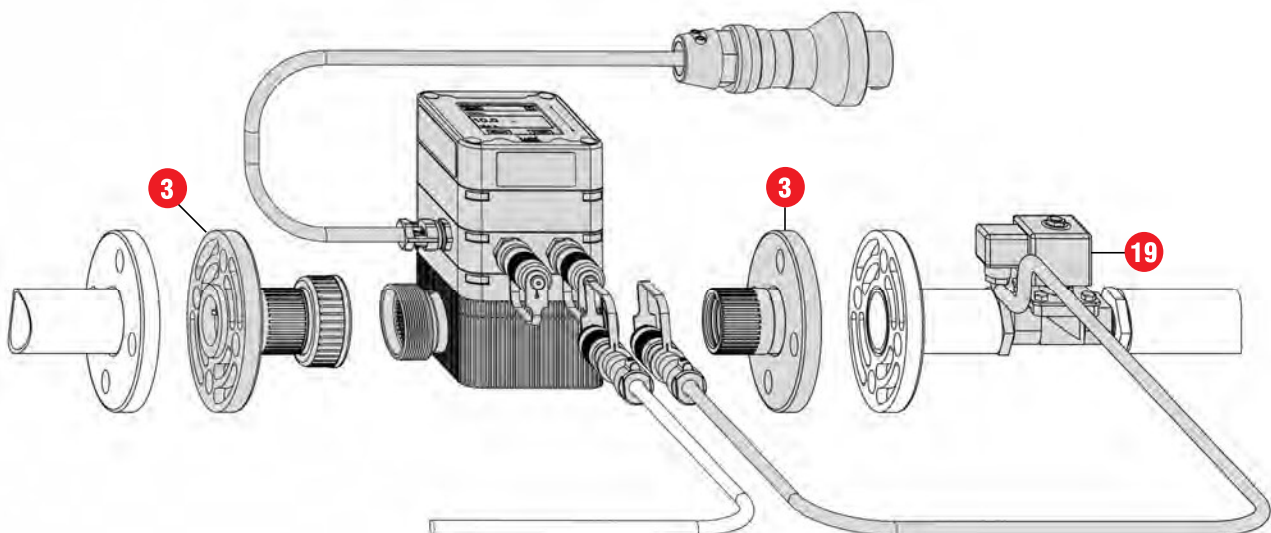|	
1	Drum pump connection
6	Relay module RM30
11	Main valve connection cable
14	Mains connection cable RM30 400 V
16	Connection cable motor RM30 400 V

... with thread connection to a drum and container pump (Ex)

1 ●	Drum pump connection
19 ●	Solenoid valve
20 ●	Double nipple

... with flange connection in plant construction (Ex)

3 ●	Flange connection
19 ●	Solenoid valve

● Suitable for the transfer of combustible and easily inflammable liquids (e.g. ethanol, petrol) and for pumping liquids in potentially explosive environments.