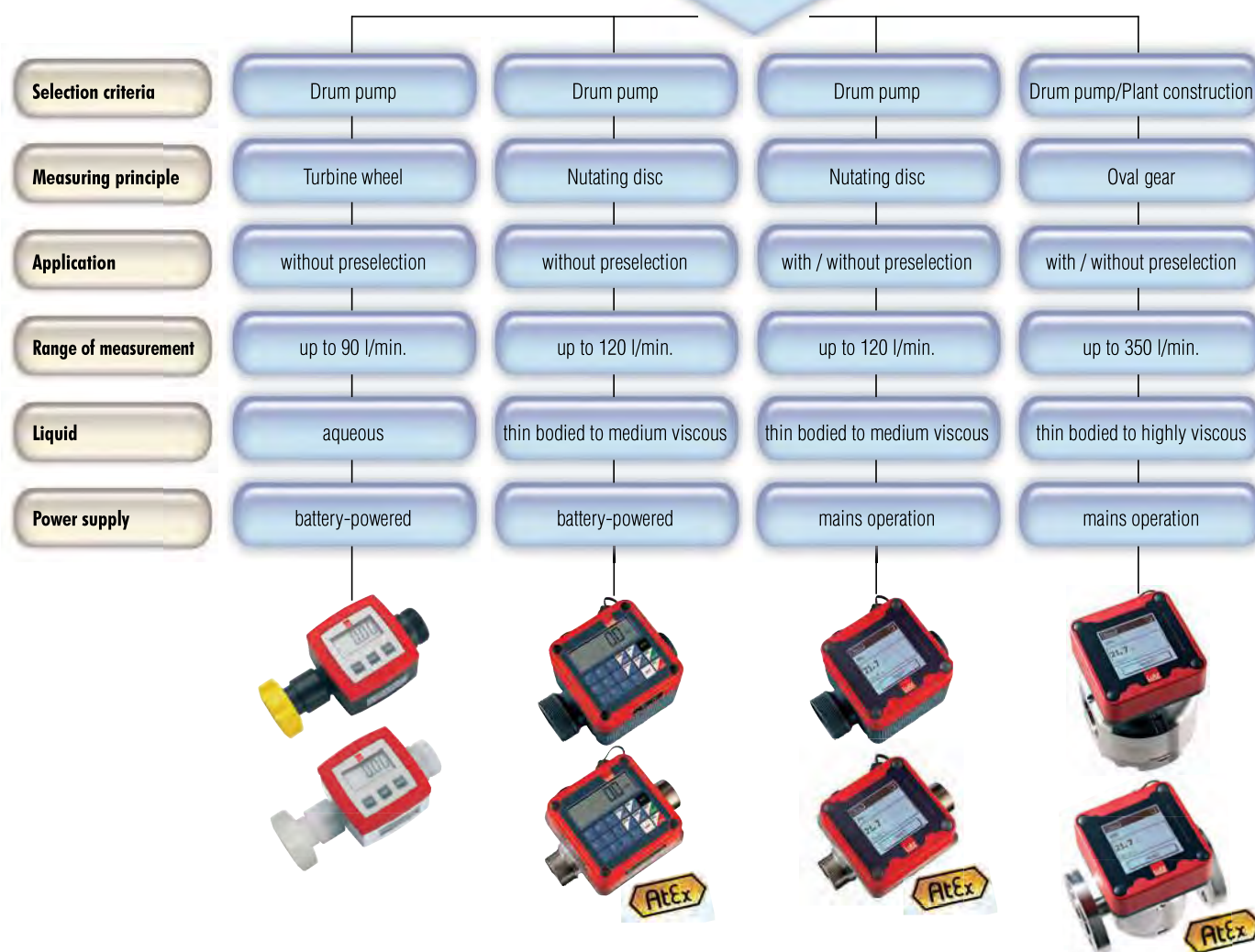


Selection Criteria



TR Series

- ✓ Can be combined with all drum and container pumps
- ✓ Wide measuring range
- ✓ Also for small volume flow
- ✓ Sub totals can be reset

(see pages 4-5)

TSB Series

- ✓ LCD display with numeric keypad
- ✓ Large 6-digit LCD
- ✓ Ideal for mobile use with a drum pump

(see pages 6-7)

TS Series

- ✓ Touch screen display
- ✓ Multilingual menus
- ✓ Simple plain-text operation
- ✓ Plug & play modular design

(see pages 10-19)

HDO Series

- ✓ Touch screen display
- ✓ Multilingual menus
- ✓ Simple plain-text operation
- ✓ Plug & play modular design
- ✓ For high flowrates, temperatures and pressures

(see pages 20-27)

Lutz flow meter program

The Reasonable: Lutz flow meter TR



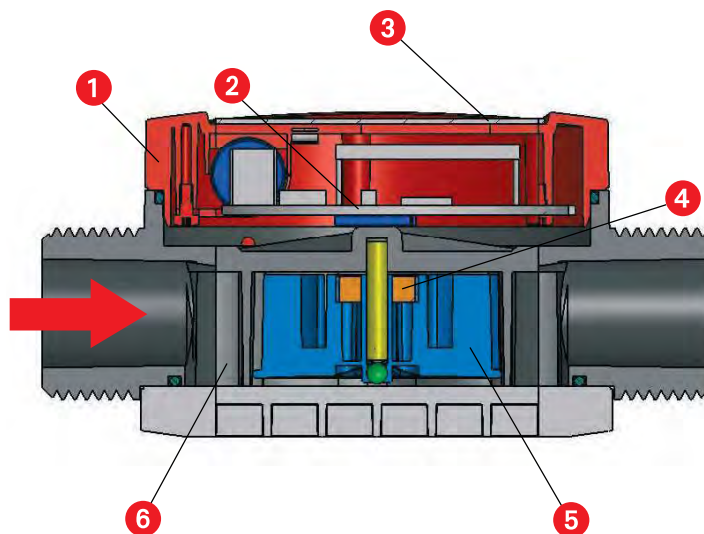
Easy handling

Easy handling, compact built and a quick assemble to all drum and container pumps:

The Lutz flow meter TR in PP or PVDF. A manageable meter which you can count on in all situations. This flow meter measures accurately thin-bodied, non-inflammable liquids.

A quick and reliable measurement: How it works

The flowing liquid causes the turbine to rotate thereby it accurately measures the pulses. The measured values are transmitted and processed electronically. Thereupon the good readable display shows the sub total and the total volume.



- 1 Housing top (PP or PVDF)
- 2 PCB
- 3 Keypad foil
- 4 Magnet
- 5 Radial turbine wheel (PP or PVDF)
- 6 Measuring chamber (PP or PVDF)

The economical liquid volume measurement

The choice is yours



Lutz offers complete pumping systems for the laboratory and research sector. The pump set Lutz B2 Vario can be optionally equipped with a flow meter TR90-PP (Order No. 0213-031).



PP for neutral and aggressive liquids

such as glycol, ferric (III) chloride, hydrochloric acid, phosphoric acid, etc.

PVDF for highly aggressive fluids

such as chlorine solution, nitric acid, sulphuric acid, etc.



Type		TR90-PP		TR90-PVDF
Material	housing top keypad	PP PES		PVDF PES
Material (in contact with the medium)	measuring chamber turbine shaft, bearing ball seal	PP PP Hastelloy C-2000 (2.4675) FPM		PVDF PVDF Hastelloy C-2000 (2.4675) FPM
Range of measurement	l/min.	5-90		5-90
Range of viscosity	mPas	0.8-40		0.8-40
Operating pressure	bar	4 (at 20 °C)		4 (at 20 °C)
Accuracy of measurement	%	± 1*		± 1*
Repeating accuracy	%	± 0.5		± 0.5
Connection		G 1	G 1 1/4	G 1 1/4
Weight	kg	0.3		0.4
Protection class		IP 65		IP 65
Range of temperature	°C	-10 up to +50		-10 up to +50
Order No.	Assembly at Lutz B2 Vario	0213-031	—	—
Order No.	Assembly at drum pump	—	0213-030	0213-040
Order No.	Assembly at nozzle	—	0213-032	0213-042

*Test assembly: Medium water, 0.2 m inlet runs and outlet runs