





Flow meter type FMC

## The FLUX flow meter type FMC nutating disc type





The technique: an advanced technology

For quality assurance, ecological and economic reasons, the requirement for safety and control in industry increases constantly. When it comes to liquids handling, industry is concerned with ensuring absolute safety combined with maximum measurement accuracy. The FLUX FMC flow meter meets these concerns and criteria. Its versatility and operating simplicity make child's play of measuring operations.

The measuring function: a well-proven design

The flow of liquid through the measuring chamber causes the disc to nutate. This movement is converted into a rotary motion which is detected by a sensor unit. The pulses generated by this senor are processed by the integrated micro-computer and shown on the liquid cristal display. A filter at the meter inlet prevents small particles from entering the measuring chamber. To achieve high measurement accuracy, the system must always be completely filled with liquid (liquid-filled-system).

In operation: adaptable to every application

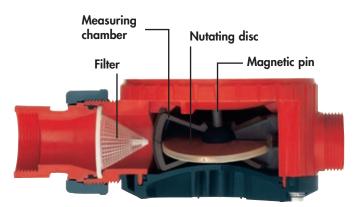
Whether for portable use wih drum pumps or fixed installation into pipework systems, the FLUX FMC flow meter provides high measurement accuracy and keeps the liquids under control. The FLUX FMC handles thin to medium viscosity liquids up to 2500 mPas (cP). The models FMC 100 are available in PP, ETFE and Stainless Steel for flowrates of 10 – 100 l/min. All models FMC 100 are explosion-proof for use in hazardous locations. The models FMC 250 in PP and PVDF are designed especially for fixed installation into pipework systems and for flowrates of 25 – 250 l/min.

The control system: precise and safe

In conjunction with an interface amplifier, the FLUX FMC flow meter can also be used as a presettable batch controller, actuating a magnetic valve and/or pump. Once the quantity has been set, a keystroke starts the metering operation. When the preset quantity has been measured, the interface amplifier disconnects the magnetic valve and/or pump motor.

#### Features and benefits

- Simplified handling
- Easy-to-read 13 mm 7-digit liquid-crystal-display
- Display of quantity per operation, totalizer or instantaneous flowrate per minute
- Presettable batch controller up to 9999 litres per operation
- 10 presets for quantity
- Easy to calibrate
- 10 calibration constants for differing liquids
- Direct or remote control service
- Modular design measuring unit, amplifier and digital display unit either integrated or separate
- explosion-proof according to ATEX-Directive 94/9/EC (valid until 20.04.2016) and ATEX-Directive 2014/34/EU (valid from 20.04.2016)
- Protected to IP 54
- Display in litres, Imperial gallons, US gallons or kilograms
- quickly and easily mounted



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The Great Range of FLUX Pumps

Example of type code of flow meter FMC

FMC 100/PP/0/F

FMC 100/PP/0/F = Design

FMC 100/PP/0/F = Model

FMC 100/PP/0/F = Material meter body

FMC 100/PP/0/F = Material seal

FMC 100/PP/0/F = Version (F = use with drum pump

A = fixed installation into pipework)

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# FMC 100/PP/./F in Polypropylene for portable use with drum Pumps



Туре	FMC 100/PP/0/F	FMC 100/PP/1/F	FMC 100/PP/2/F	
Flowrate	10 – 100 l/min	10 – 100 l/min	10 – 100 l/min	
Operating pressure	max. 4 bar	max. 4 bar	max. 4 bar	
Viscosity	max. 2500 mPas (cP)	max. 2500 mPas (cP)	max. 2500 mPas (cP)	
Operating temperature	max. 60 °C	max. 60 °C	max. 60 °C	
Accuracy	± 1%	± 1%	± 1%	
Mode of operation	Normal mode or auto mode in conjunction with an interface amplifier			
Inlet-outlet connections	G 11/4 – 11/4 A BSP 11/4" female – BSP 11/4" male	G 11/4 – 11/4 A BSP 11/4" female – BSP 11/4" male	G 11/4 – 11/4 A BSP 11/4" female – BSP 11/4" male	
	connec	ting piece to drum pump included in	the FMC	
Material: meter body	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)	
Material: maesuring chamber	PPS	PPS	PPS	
Material: seal	EPDM (0)	FKM (1)	FEP (2)	
Weight	1,1 kg	1,1 kg	1,1 kg	
Part No.	A04 00 005	A04 00 007	A04 00 009	

#### Version without digital display unit for use with quick action tap – see page 13

Flow meter with top cover and connecting cable,  $5\,\mathrm{m}$  long. Part No. of quick action tap on page 13.

Part No.	A04 00 035	A04 00 037	A04 00 039

### Accessory for all models FMC



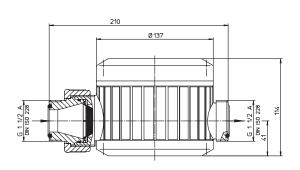
Protective boot for display unit against impurities and corrosive vapours

Part No. 001 42 017

# FMC 100/PP/./A in Polypropylene for fixed installation into pipework







Туре	FMC 100/PP/0/A	FMC 100/PP/1/A	FMC 100/PP/2/A	
Flowrate	10 – 100 l/min	10 – 100 l/min	10 – 100 l/min	
Operating pressure	max. 4 bar	max. 4 bar	max. 4 bar	
Viscosity	max. 2500 mPas (cP)	max. 2500 mPas (cP)	max. 2500 mPas (cP)	
Operating temperature	max. 60 °C	max. 60 °C	max. 60 °C	
Genauigkeit	± 1%	± 1%	± 1%	
Accuracy	Normal mode or auto mode in co	Normal mode or auto mode in conjunction with an interface amplifier		
Inlet-outlet connections	G 1½ A – G 1½ A BSP 1½" – BSP 1½" male	G 1½ A – G 1½ A BSP 1½" – BSP 1½" male	G 1½ A – G 1½ A BSP 1½" – BSP 1½" male	
Material: meter body	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)	
Material: measuring chamber	PPS	PPS	PPS	
Material: seal	EPDM (0)	FKM (1)	FEP (2)	
Weight	1,1 kg	1,1 kg	1,1 kg	
Part No.	A04 00 012	A04 00 014	A04 00 016	

#### Version for use with external digital display unit

Flow meter with top cover and connecting cable, 5 m long.

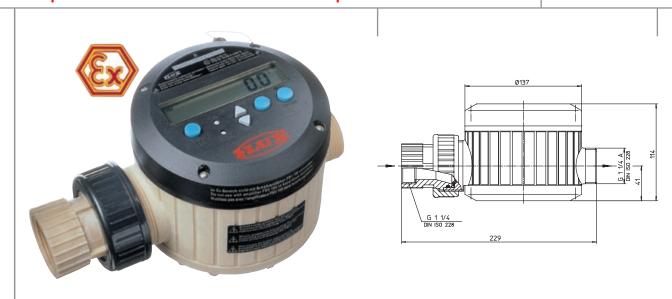
Part No.	A04 00 041	A04 00 043	A04 00 045

#### External digital display unit / Part No.

for wall mounting	001 42 008	for mounting into a switchboard	001 42 009

Part No.			
Pipe connection DN 25 (PP)	001 41 947	001 41 947	001 41 947
Flange DN 25 (PP)	001 41 907	001 41 909	001 41 911
Flange DN 32 (PP)	001 41 913	001 41 915	001 41 917

# FMC 100/ETFE/./F in Ethylen-Tetrafluor-Ethylene for portable use with drum Pumps



Туре	FMC 100/ETFE/0/F	FMC 100/ETFE/1/F	FMC 100/ETFE/3/F		
Flowrate	10 – 100 l/min	10 – 100 l/min	10 – 100 l/min		
Operating pressure	max. 4 bar	max. 4 bar	max. 4 bar		
Viscosity	max. 2500 mPas (cP)	max. 2500 mPas (cP)	max. 2500 mPas (cP)		
Operating temperature	max. 60 °C	max. 60 °C	max. 60 °C		
Accuracy	± 1%	± 1%	± 1%		
Mode of operation	Normal mode or auto mode in cor	Normal mode or auto mode in conjunction with an interface amplifier			
Inlet-outlet connections	G 1¼ – G 1¼ A BSP 1¼" female – BSP 1¼" male	G 1½ – G 1½ A BSP 1½" female – BSP 1½" male	G 1¼ – G 1¼ A BSP 1¼" female – BSP 1¼" male		
	connecting piece to drum pump in	cluded in the FMC			
Material: meter body	Ethylen-Tetrafluor-Ethylene (ETFE)	Ethylen-Tetrafluor-Ethylene (ETFE)	Ethylen-Tetrafluor-Ethylene (ETFE)		
Material: seal	EPDM (0)	FKM (1)	FFKM (3)		
Weight	1,4 kg	1,4 kg	1,4 kg		
Weight	1,1 kg	1,1 kg	1,1 kg		
Part No.	A04 00 005	A04 00 007	A04 00 009		

#### Version without digital display unit for use with quick action tap – see page 13

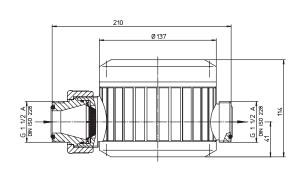
Flow meter with top cover and connecting cable,  $5\ \mathrm{m}$  long. Part No. of quick action tap on page 13.

Part No.	A04 00 036	A04 00 038	A04 00 079

# FMC 100/ETFE/./A in Ethylen-Tetrafluor-Ethylene for fixed installation into pipework







Туре	FMC 100/ETFE/0/A	FMC 100/ETFE/1/A	FMC 100/ETFE/3/A
Flowrate	10 – 100 l/min	10 – 100 l/min	10 – 100 l/min
Operating pressure	max. 4 bar	max. 4 bar	max. 4 bar
Viscosity	max. 2500 mPas (cP)	max. 2500 mPas (cP)	max. 2500 mPas (cP)
Operating temperature	max. 60 °C	max. 60 °C	max. 60 °C
Accuracy	± 1%	± 1%	± 1%
Mode of operation	Normal mode or auto mode in cor	njunction with an interface amplifier	
Inlet-outlet connections	G 1½ A – G 1½ A BSP 1½" – BSP 1½ male	G 1½ A – G 1½ A BSP 1½" – BSP 1½" male	G 1½ A – G 1½ A BSP 1½" – BSP 1½" male
Material: meter body	Ethylen-Tetrafluor-Ethylene (ETFE)	Ethylen-Tetrafluor-Ethylene (ETFE)	Ethylen-Tetrafluor-Ethylene (ETFE)
Material: measuring chamber	Ethylen-Tetrafluor-Ethylene (ETFE)	Ethylen-Tetrafluor-Ethylene (ETFE)	Ethylen-Tetrafluor-Ethylene (ETFE)
Material: seal	EPDM (0)	FKM (1)	FFKM (3)
Weight	1,1 kg	1,1 kg	1,1 kg
Part No.	A04 00 013	A04 00 015	A04 00 078

#### Version for use with external digital display unit

Flow meter with top cover and connecting cable, 5 m long.

Part No.	A04 00 042	A04 00 044	A04 00 080

#### External digital display unit / Part No.

for wall mounting	001 42 008	for mounting into a switchboard	001 42 009

Part No.			
Pipe connection DN 25 (PVDF/ETFE)	001 41 948	001 41 948	001 41 948
Flange DN 25 (PVDF)	001 41 908	001 41 910	001 41 912
Flange DN 32 (PVDF)	001 41 914	001 41 916	001 41 918

## FMC 100/S/./F in Stainless Steel for portabel use with drum Pumps



Туре	FMC 100/S/0/F	FMC 100/S/1/F	FMC 100/S/2/F	
Flowrate	10 – 100 l/min	10 – 100 l/min	10 – 100 l/min	
Operating pressure	max. 6 bar	max. 6 bar	max. 6 bar	
Viscosity	max. 2500 mPas (cP)	max. 2500 mPas (cP)	max. 2500 mPas (cP)	
Operating temperature	max. 80 °C	max. 80 °C	max. 80 °C	
Accuracy	± 1%	± 1%	± 1%	
Mode of operation	Normal mode or auto mode in co	Normal mode or auto mode in conjunction with an interface amplifier		
Inlet-outlet connections			G 1½ A – G 1¼ A BSP 1½" – BSP 1¼" male	
	connecting piece to drum pump N	OT included in the FMC		
Material: measuring chamber	PPS	PPS	PPS	
Material: seal	EPDM (0)	FKM (1)	FFKM (3)	
Weight	1,7 kg	1,7 kg	1,7 kg	
Part No.	A04 00 029	A04 00 031	A04 00 033	

#### Version without digital display unit for use with quick action tap – see page 13

Flow meter with top cover and connecting cable, 5 m long.

Part No. A04 00 042 A04 00	044 A04 00 080
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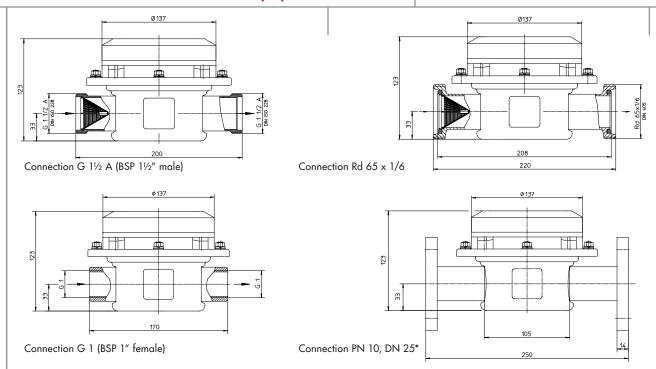
Flow meter with top cover and connecting cable, 5 m long. Part No. of quick action tap on page 13.

Part No. A04 00 053	A04 00 055	A04 00 057
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Part No.			
Connecting piece to drum pump G 11/4 – G 11/2	959 06 059	959 06 059	959 06 059

## FMC 100/S/./A in Stainless Steel for fixed installation into pipework





Туре	FMC 100/S/0/A	FMC 100/S/1/A	FMC 100/S/2/A	
Flowrate	10 – 100 l/min	10 – 100 l/min	10 – 100 l/min	
Operating pressure	max. 6 bar	max. 6 bar	max. 6 bar	
Viscosity	max. 2500 mPas (cP)	max. 2500 mPas (cP)	max. 2500 mPas (cP)	
Operating temperature	max. 80 °C	max. 80 °C	max. 80 °C	
Accuracy	± 1%	± 1%	± 1%	
Mode of operation	Normal mode or auto mode in co	Normal mode or auto mode in conjunction with an interface amplifier		
Inlet-outlet connections	see dimensional drawings above	see dimensional drawings above		
Material: meter body	Stainless Steel 316 Ti (S)	Stainless Steel 316 Ti (S)	Stainless Steel 316 Ti (S)	
Material: measuring chamber	PPS	PPS	PPS	
Material: seal	EPDM (0)	FKM (1)	FEP (2)	
Weight	1,7 kg	1,7 kg	1,7 kg	
Part No.	A04 00 013	A04 00 015	A04 00 078	
Connection G 1½ A	A04 00 071	A04 00 072	A04 00 073	
Connection Rd 65 x 1/6	A04 00 023	A04 00 025	A04 00 027	
Connection G 1	A04 00 085	A04 00 086	A04 00 087	
Flange PN 10, DN 25*	A04 00 082	A04 00 083	A04 00 084	

<sup>\*</sup> Flange size: outer-Ø 115 mm, pitch circle-Ø 85 mm, 4 bores Ø 14 mm each

#### Version for use with external digital display unit

Flow meter with top cover and connecting cable, 5 m long.

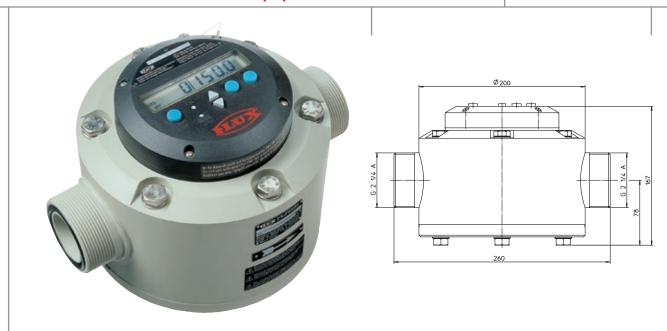
Part No.			
Connection G 1½ A	A04 00 074	A04 00 075	A04 00 076
Connection Rd 65 x 1/6	A04 00 059	A04 00 061	A04 00 063

#### External digital display unit / Part No.

for wall mounting 001 42 008	for mounting into a switchboard	001 42 009
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Part No.			
Pipe connection RV32-40/25	001 41 986	001 41 987	001 41 988
Pipe connection RV32-40/32	001 41 989	001 41 990	001 41 991

# FMC 250/PP/./A, FMC 250/PVDF/./A for fixed installation into pipework



				I
Туре	FMC 250/PP/0/A	FMC 250/PP/1/A	FMC 250/PVDF/0/A	FMC 250/PVDF/1/A
Flowrate	25 – 250 l/min	25 – 250 l/min	25 – 250 l/min	25 – 250 l/min
Operating pressure	max. 6 bar	max. 6 bar	max. 6 bar	max. 6 bar
Viscosity	max. 2500 mPas (cP)	max. 2500 mPas (cP)	max. 2500 mPas (cP)	max. 2500 mPas (cP)
Operating temperature	max. 60 °C	max. 60 °C	max. 60 °C	max. 60 °C
Accuracy	± 1%	± 1%	± 1%	± 1%
Mode of operation	Normal mode or auto mod	Normal mode or auto mode in conjunction with interface amplifier Type FSV 100		
Inlet-outlet connnections*	G 21/4 A (BSP 21/4" male)	G 21/4 A (BSP 21/4" male)	G 21/4 A (BSP 21/4" male)	G 21/4 A (BSP 21/4" male)
Material: meter body	Polypropylene (PP)	Polypropylene (PP)	Polyvinylidenfluoride (PVDF)	Polyvinylidenfluoride (PVDF)
Material: measuring chamber	Polyethylene (PE)	Polyethylene (PE)	Polyvinylidenfluoride (PVDF)	Polyvinylidenfluoride (PVDF)
Material: seal	EPDM (0)	FKM (1)	EPDM (0)	FKM (1)
Weight	4,2 kg	4,2 kg	4,2 kg	4,2 kg
Part No.	A04 25 400	A04 25 410	A04 25 600	A04 25 610

<sup>\*</sup> other connections on request

### **Example of Application**

The FLUX FMC 250 for fixed installation into pipework systems

## Examples of liquids



Material	Polypropylene (PP)	Ethylene-Tetrafluor- Ethylene (ETFE)	Polyvinyliden- fluoride (PVDF)	Stainless Steel 316 Ti (S)
The examples are based on a temperature of 20 °C. Factors such as higher temperatures, different concentrations, impurities and mixtures of liquids have to be taken into account. For further information please see FLUX Resistance Chart.	Accumulator acid* Acetic acid Ammonia water Arsenic acid* Boric acid* Brake fluid Calcium chloride* Caustic soda Citric acid* Ferric chloride* Formic acid Glycol* Hydrochloric acid* Mineral oil* Phosphoric acid* Photo developper* Sulfuric acid up to 60 %*	Bromine acid Butylamine Chloroforme** Diethylamine Essential oils** Ethyl acetate Ethylene oxide* Hydrofluoric acid up to 40 %* Hydrogene peroxide* Nicotinic acid** Nitrating acid up to 70 %** Nitric acid (concentrated)** Petroleum ether* Sulfuric acid up to 98 %*	Chloric acid Chromic acid Hydrobromic acid Hydrofluoric acid* Hydrogene peroxide* Nitric acid up to 75 % Paraffine emulsion* Potassium bromide Sodium hypochlorite Sulfuric acid up to 98 % Trichlorobenzene as well as most liquids listed under PP	Acetone Butanone Ether Ethyl alcohol Freon/Frigen** Glycerine Hexanol Isopropyl ether** Linseed oil* Methanol Methylene chloride* Methoxybutanol Mineral oil* Perchlorethylene* Petroleum* Styrene** Trichlorethylene***
	Tartaric acid* Zinc chloride*	Tetrahydrofurane**		Vinegar

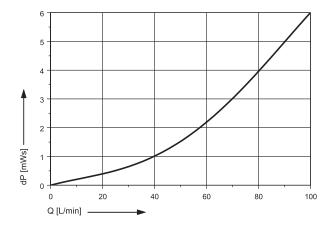
#### Material of seal:

- 0 = EPDM (Ethylene-Propylene-Diene-Rubber)
- \*1 = FKM (Fluor-Rubber)
- \*\*2 = FEP (Tetrafluorethylene-Perfluorpropylene)
- \*\*3 = FFKM (Per-Fluor-Rubber)

#### Pressure loss charts

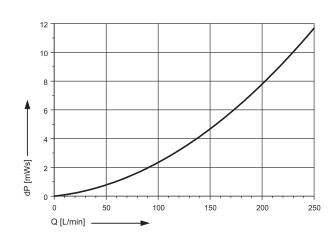
#### Type FMC 100

Values with water at 20 °C Tolerance  $\pm$  5 %



#### Type FMC 250

Values with water at 20  $^{\circ}$ C Tolerance ± 5  $^{\circ}$ 



## Interface amplifier for pre-set batch control with FLUX FMC flow meter in auto mode







Type FSV 100	Type FSV 112	Type FSV 132
integral mounting onto FMC – see picture on page 3.  Supply voltage 230 Volt, 50 Hz, protected to IP 54. With 5 m power supply cable.  Two output signals for: main flow control for a pump and/or magnetic valve and secondary control for turn down controlling a magnetic valve or relay.  With plug connections for control features.	Complete with housing for wall mounting. Supply voltage 230 Volt, 50 Hz, protected to IP 54. Two output signals for: main flow control for a pump and/or magnetic valve and secondary control for turn down controlling a magnetic valve or relay. Input socket for power supply and output plugs for control features.	without housing for mounting into a switch-board. Supply voltage 230 Volt, 50 Hz, protected to IP 20. Two output signals for control of a pump and two magnetic valves.
Part No. 001 49 040	Part No. 001 49 041	Part No. 940 04 020



Accessories for FSV 100, FSV 112 and FSV 132 Power supply cable, 5 m, for use with FSV 112

Part No. 934 08 037

Connecting cable to motor, 0,5 m, for use with FSV 100 and FSV 112

Part No. 934 08 035

Connecting cable to magnetic valve, 5m, for use with FSV 100 and FSV 112

Part No. 934 08 036

Connecting cable 5 m, to transmit the pulses from FMC to FSV 112

Part No. 934 08 039

Connecting cable, to transmit the pulses from FMC to FSV 121-1 Ex and FSV 132.

Part No. 934 08 038

5 m long Part No. 934 08 040 10 m long





Type FSV 121-1 Ex	Type FSV 121 Ex	Accessories for FSV 121 Ex
explosion-proof to II 2 G EEx ed (ia) IIC T6. Supply voltage 230 Volt, 50 Hz, protected to IP 54. One output signal for control of a pump or a magnetic valve. Without plug connections. Connecting cable to transmit the pulses from FMO see above accessories item 5.	explosion-proof to II 2 G EEx ed (ia) IIC T6. Supply voltage 230 Volt, 50 Hz, protected to IP 54. One output signal for control of a pump or a magnetic valve. With connecting 5 m connecting cable to transmit the pulses from FMO. Input socket for power supply and output plugs for control features.	Power supply cable, 5 m  Part No. 934 08 048  Connecting cable to motor or magnetic valve, 5 m
Part No. 001 49 039	Part No. 001 49 051	Part No. 934 08 049

# Quick action tap complete with electronic digital display unit for use with FMC 100 with top cover





Туре	Quick Action Tap PP	Quick Action Tap PVDF
Flowrate	max. 50 l/min	max. 50 l/min
Operating pressure	max. 3 bar	max. 3 bar
Viscosity	max. 900 mPas (cP)	max. 900 mPas (cP)
Operating temperature	max. 50 °C	max. 50 °C
Inlet connection	DN 19	DN 19
Outlet tube	Ø 22 mm	Ø 22 mm
Material	Polypropylene (PP)	Polyvinylidenfluoride (PVDF)
Seal	FKM	FKM
Weight	0,5 kg	0,6 kg
Part No.	001 12 390	001 12 391
Туре	Quick Action Tap MS	Quick Action Tap S
./ -		
-717-		
Flowrate	max. 80 l/min	max. 65 l/min
Flowrate	max. 80 l/min	max. 65 l/min
Flowrate Operating pressure	max. 80 l/min max. 4 bar	max. 65 l/min max. 4 bar
Flowrate Operating pressure Viscosity	max. 80 l/min max. 4 bar max. 900 mPas (cP)	max. 65 l/min max. 4 bar max. 900 mPas (cP)
Flowrate Operating pressure Viscosity Operating temperature	max. 80 l/min max. 4 bar max. 900 mPas (cP) max. 80 °C	max. 65 l/min max. 4 bar max. 900 mPas (cP) max. 80 °C
Flowrate Operating pressure Viscosity Operating temperature Inlet connection	max. 80 l/min max. 4 bar max. 900 mPas (cP) max. 80 °C Ø 32 mm	max. 65 l/min max. 4 bar max. 900 mPas (cP) max. 80 °C Ø 32 mm
Flowrate Operating pressure Viscosity Operating temperature Inlet connection Outlet tube	max. 80 l/min max. 4 bar max. 900 mPas (cP) max. 80 °C Ø 32 mm Ø 25 mm*	max. 65 l/min max. 4 bar max. 900 mPas (cP) max. 80 °C Ø 32 mm Ø 28 mm*
Flowrate Operating pressure Viscosity Operating temperature Inlet connection Outlet tube Material	max. 80 l/min max. 4 bar max. 900 mPas (cP) max. 80 °C Ø 32 mm Ø 25 mm*  Brass, nickel-plated (MS)	max. 45 l/min max. 4 bar max. 900 mPas (cP) max. 80 °C Ø 32 mm Ø 28 mm* Stainless Steel 316 Ti (S)

<sup>\*</sup> Longer outlet tube  $\varnothing$  20 mm for use with fume cone on request

# Examples of applications FLUX flow meter Type FMC 100





## The great Range of FLUX Pumps



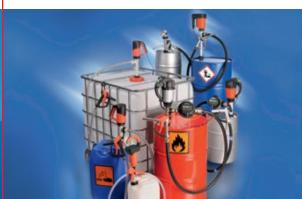
YES!

I am interested in top class pump technology. Please send the following catalogues:

JUNIORFLUX	FLUX Centrifugal Immersion Pumps		
FLUX Pump-Kits	FLUX Air-operated Diaphragm Pumps		
FLUX Eccentric Worm-Drive Pump	FLUX Flow Meter		
FLUX Drum and Container Pumps	FLUX Process control system PCS		
Mr / Mrs			
Company			
Address			
Telephone	Fax		
e-mail			
Please mark with a cross, complete the address and then send us a fax. Fax number see on the back side!			







Today the FLUX name is recognised around the globe as the trademark for top standards in pump technology. Everything started with the invention of the electric drum pump in 1950. Nowadays FLUX has an extensive range of products each of which can be customized. FLUX pumps are used for example in the chemical and pharmaceutical industries; in machinery and plant engineering as well as companies in electroplating, effluent treatment and the foodstuffs sector.

Whether single-product or system solution – FLUX quality is synonymous with a long service life, excellent economy and maximum safety.

In addition to the excellent product quality FLUX customers appreciate the superb level of expertise our staff has to offer as well as their genuine customer focus.

These days FLUX-GERÄTE GMBH supplies pumps to almost 100 countries around the globe.