
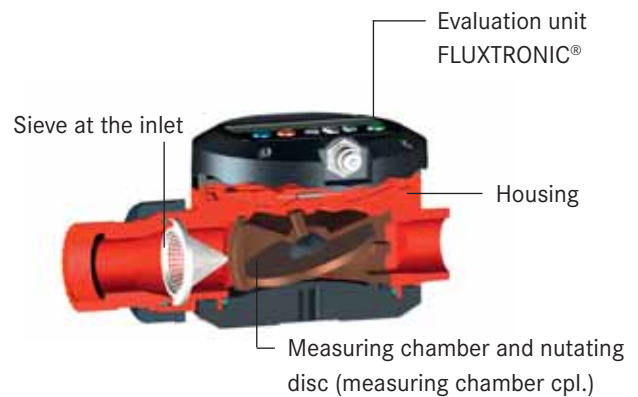


Nutating Disc Flow Meters FMC/FMJ Series




Advantages FMC 100/250

- ▶ Batch operation possible (automatic mode)
- ▶ High resistance
- ▶ Insensitive to small solids
- ▶ Easy handling
- ▶ Easy assembly
- ▶ For use in hazardous areas 

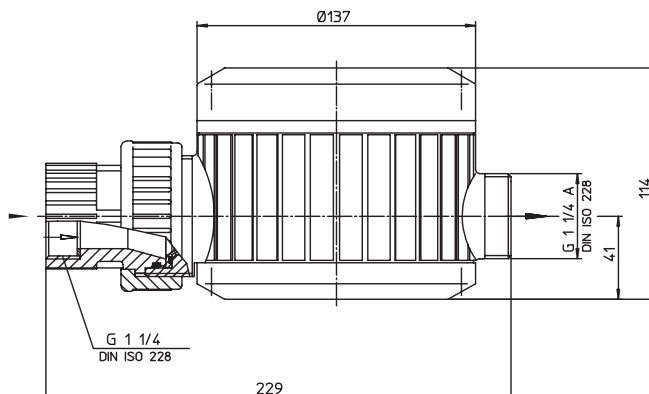


Technical data

	FMC 100	FMC 250
Versions also in		
Protection class	IP 54	IP 54
Application area	For manual or semi-automatic filling	For stationary use in plant engineering
Flow rate GPM (l/min)	2.64 - 26.4 (10 - 100)	6.6 - 66 (25 - 250)
Measurement error of the flow rate	+/- 1.5 %	+/- 1.5 %
Repeatability	+/- 0.15 %	+/- 0.3 %
Operating pressure max.	PP/ETFE: 58 PSI S: 87 PSI	PP/PVDF: 87 PSI
Viscosity max.	2,500 cPs	2,500 cPs
Material housing	Polypropylene, Stainless steel, Ethylene-tetrafluorethylene	Polypropylene, Polyvinylidene fluoride

Technical Data Sheet

FMC100 in Polypropylene for Portable Use with Drum Pumps



Type	FMC 100/PP/0/F	FMC 100/PP/1/F	FMC 100/PP/2/F
Flowrate	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)
Operating pressure	max. 58 PSI (4 bar)	max. 58 PSI (4 bar)	max. 58 PSI (4 bar)
Viscosity	max. 2,500 cPs	max. 2,500 cPs	max. 2,500 cPs
Operating temperature	max. 140°F (60°C)	max. 140°F (60°C)	max. 140°F (60°C)
Accuracy	± 1%	± 1%	± 1%
Mode of operation	Normal mode or auto mode in conjunction with an interface amplifier		
Inlet-outlet connections	G 1¼ - 1¼ A BSP 1¼" female - BSP 1¼" male	G 1¼ - 1¼ A BSP 1¼" female - BSP 1¼" male	G 1¼ - 1¼ A BSP 1¼" female - BSP 1¼" male
	connecting piece to drum pump included in the FMC		
Material: meter body	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)
Material: measuring chamber	PPS	PPS	PPS
Material: seal	EPDM (0)	FKM (1)	FEP (2)
Weight	2.4 lbs (1.1 kg)	2.4 lbs (1.1 kg)	2.4 lbs (1.1 kg)
Part No.	10-A04 00 005	10-A04 00 007	10-A04 00 009

Version without digital display unit for use with quick action tap.

Flow meter with top cover and connecting cable, 16ft (5m) long.

Part No.	10-A04 00 035	10-A04 00 037	10-A04 00 039
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Accessory for all models FMC

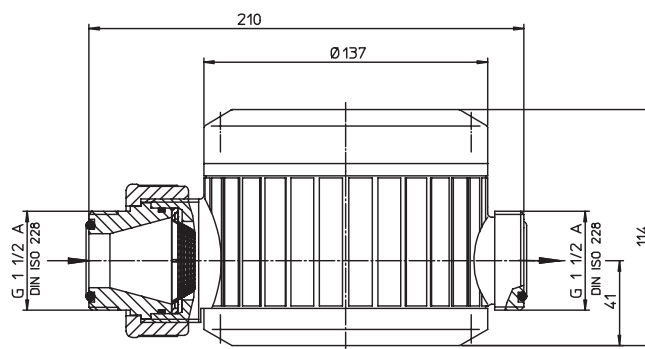


Protective boot for display unit against impurities and corrosive vapours

Part No. 10-001 42 017

Technical Data Sheet

FMC100 in Polypropylene for Fixed Installation into Pipework



Type	FMC 100/PP/0/A	FMC 100/PP/1/A	FMC 100/PP/2/A
Flowrate	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)
Operating pressure	max. 58 PSI (4 bar)	max. 58 PSI (4 bar)	max. 58 PSI (4 bar)
Viscosity	max. 2,500 cPs	max. 2,500 cPs	max. 2,500 cPs
Operating temperature	max. 140°F (60°C)	max. 140°F (60°C)	max. 140°F (60°C)
Genauigkeit	± 1%	± 1%	± 1%
Accuracy	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	2.4 lbs (1.1 kg)	2.4 lbs (1.1 kg)	2.4 lbs (1.1 kg)
Part No.	10-A04 00 012	10-A04 00 014	10-A04 00 016

Version for use with external digital display unit

Flow meter with top cover and connecting cable, 16ft (5m) long.

Part No.	10-A04 00 041	10-A04 00 043	10-A04 00 045
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External digital display unit / Part No.

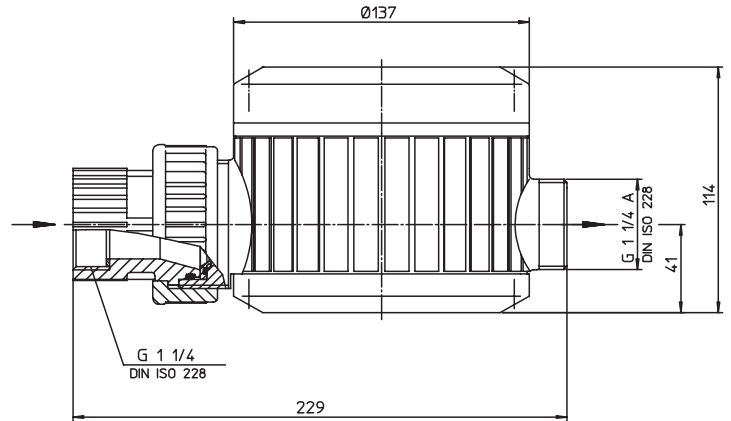
for wall mounting	10-001 42 008	for mounting into a switchboard	10-001 42 009
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Accessories

Part No.			
Pipe connection DN 25 (PP)	10-001 41 947	10-001 41 947	10-001 41 947
Flange DN 25 (PP)	10-001 41 907	10-001 41 909	10-001 41 911
Flange DN 32 (PP)	10-001 41 913	10-001 41 915	10-001 41 917

Technical Data Sheet

FMC100 in ETFE for Portable Use with Drum Pumps



Type	FMC 100/ETFE/0/F	FMC 100/ETFE/1/F	FMC 100/ETFE/3/F
Flowrate	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)
Operating pressure	max. 58 PSI (4 bar)	max. 58 PSI (4 bar)	max. 58 PSI (4 bar)
Viscosity	max. 2,500 cPs	max. 2,500 cPs	max. 2,500 cPs
Operating temperature	max. 140°F (60°C)	max. 140°F (60°C)	max. 140°F (60°C)
Accuracy	± 1%	± 1%	± 1%
Mode of operation	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 1¼ – G 1¼ A BSP 1¼" female – BSP 1¼" male	G 1¼ – G 1¼ A BSP 1¼" female – BSP 1¼" male
	connecting piece to drum pump included 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	3.1 lbs (1.4 kg)	3.1 lbs (1.4 kg)	3.1 lbs (1.4 kg)
Part No.	10-A04 00 006	10-A04 00 008	10-A04 00 077

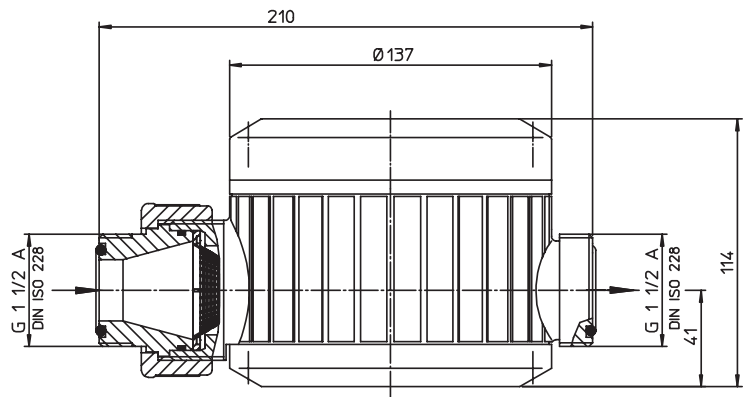
Version without digital display unit for use with quick action tap.

Flow meter with top cover and connecting cable, 16ft (5m) long.

Part No.	10-A04 00 036	10-A04 00 038	10-A04 00 079
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Technical Data Sheet

FMC100 in ETFE for Fixed Installation into Pipework



Type	FMC 100/ETFE/0/A	FMC 100/ETFE/1/A	FMC 100/ETFE/3/A
Flowrate	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)
Operating pressure	max. 58 PSI (4 bar)	max. 58 PSI (4 bar)	max. 58 PSI (4 bar)
Viscosity	max. 2,500 cPs	max. 2,500 cPs	max. 2,500 cPs
Operating temperature	max. 140°F (60°C)	max. 140°F (60°C)	max. 140°F (60°C)
Accuracy	± 1%	± 1%	± 1%
Mode of operation	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	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	3.1 lbs (1.4 kg)	3.1 lbs (1.4 kg)	3.1 lbs (1.4 kg)
Part No.	10-A04 00 013	10-A04 00 015	10-A04 00 078

Version for use with external digital display unit

Flow meter with top cover and connecting cable, 16ft (5m) long.

Part No.	10-A04 00 042	10-A04 00 044	10-A04 00 080
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External digital display unit / Part No.

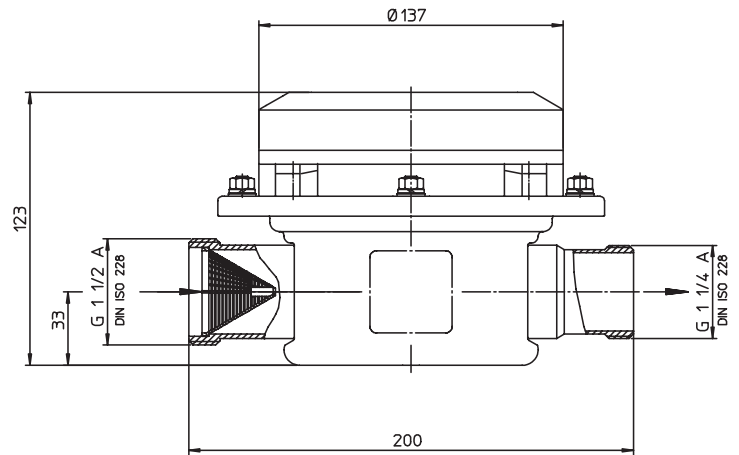
for wall mounting	10-001 42 008	for mounting into a switchboard	10-001 42 009
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Accessories

Part No.			
Pipe connection DN 25 (PVDF/ETFE)	10-001 41 948	10-001 41 948	10-001 41 948
Flange DN 25 (PVDF)	10-001 41 908	10-001 41 910	10-001 41 912
Flange DN 32 (PVDF)	10-001 41 914	10-001 41 916	10-001 41 918

Technical Data Sheet

FMC100 in Stainless Steel for Portable Use with Drum Pumps



Type	FMC 100/S/0/F	FMC 100/S/1/F	FMC 100/S/2/F
Flowrate	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)
Operating pressure	max. 87 PSI (6 bar)	max. 87 PSI (6 bar)	max. 87 PSI (6 bar)
Viscosity	max. 2,500 cPs	max. 2,500 cPs	max. 2,500 cPs
Operating temperature	max. 176°F (80°C)	max. 176°F (80°C)	max. 176°F (80°C)
Accuracy	± 1%	± 1%	± 1%
Mode of operation	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	G 1½ A – G 1¼ A BSP 1½" – BSP 1¼" male	G 1½ A – G 1¼ A BSP 1½" – BSP 1¼" male
	Connecting piece to drum pump not included with FMC		
Material: measuring chamber	PPS	PPS	PPS
Material: seal	EPDM (0)	FKM (1)	FFKM(3)
Weight	3.7 lbs (1.7 kg)	3.7 lbs (1.7 kg)	3.7 lbs (1.7 kg)
Part No.	10-A04 00 029	10-A04 00 031	10-A04 00 033

Version without digital display unit for use with quick action tap.

Flow meter with top cover and connecting cable, 16ft (5m) long.

Part No.	10-A04 00 042	10-A04 00 044	10-A04 00 080
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Flow meter with top cover and connecting cable, 16ft (5m) long.

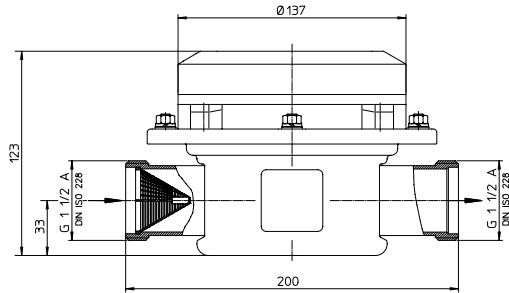
Part No.	10-A04 00 053	10-A04 00 055	10-A04 00 057
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Accessories

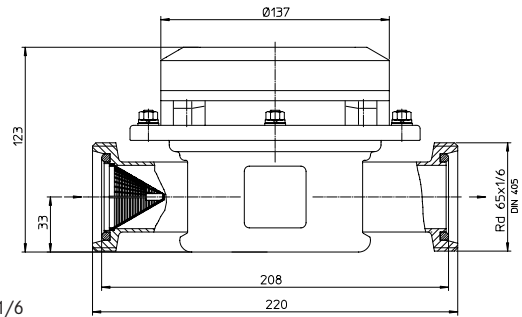
Part No.			
Connecting piece to drum pump G 1¼ – G 1½	10-959 06 059	10-959 06 059	10-959 06 059

Technical Data Sheet

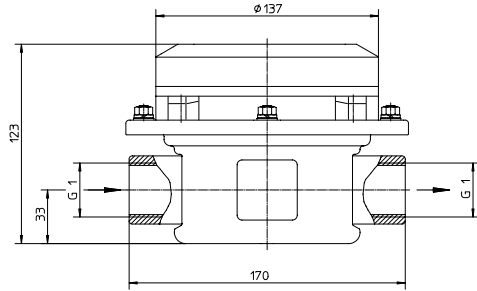
FMC100 in Stainless Steel for Fixed Installation into Pipework



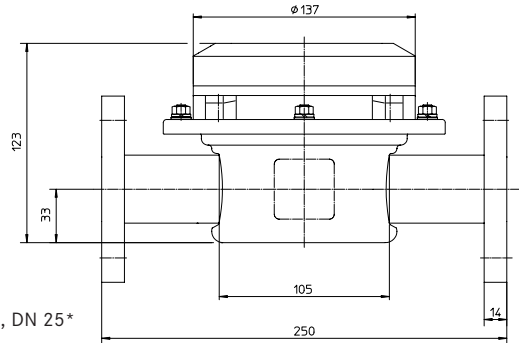
Connection G 1 1/2 A (BSP 1 1/2" male)



Connection Rd 65 x 1/6



Connection G 1 (BSP 1" female)



Connection PN 10, DN 25*

Type	FMC 100/S/0/A	FMC 100/S/1/A	FMC 100/S/2/A
Flowrate	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)	2.6-26.4 GPM (10-100 lpm)
Operating pressure	max. 87 PSI (6 bar)	max. 87 PSI (6 bar)	max. 87 PSI (6 bar)
Viscosity	max. 2,500 cPs	max. 2,500 cPs	max. 2,500 cPs
Operating temperature	max. 176°F (80°C)	max. 176°F (80°C)	max. 176°F (80°C)
Accuracy	± 1%	± 1%	± 1%
Mode of operation	Normal mode or auto mode in conjunction with an interface amplifier		
Inlet-outlet connections	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	3.7 lbs (1.7 kg)	3.7 lbs (1.7 kg)	3.7 lbs (1.7 kg)
Part No.	10-A04 00 013	10-A04 00 015	10-A04 00 078
Connection G 1 1/2 A	10-A04 00 071	10-A04 00 072	10-A04 00 073
Connection Rd 65 x 1/6	10-A04 00 023	10-A04 00 025	10-A04 00 027
Connection G 1	10-A04 00 085	10-A04 00 086	10-A04 00 087
Flange PN 10, DN 25*	10-A04 00 082	10-A04 00 083	10-A04 00 084

* 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, 16ft (5m) long.

Part No.			
Connection G 1 1/2 A	10-A04 00 074	10-A04 00 075	10-A04 00 076
Connection Rd 65 x 1/6	10-A04 00 059	10-A04 00 061	10-A04 00 063

External digital display unit / Part No.

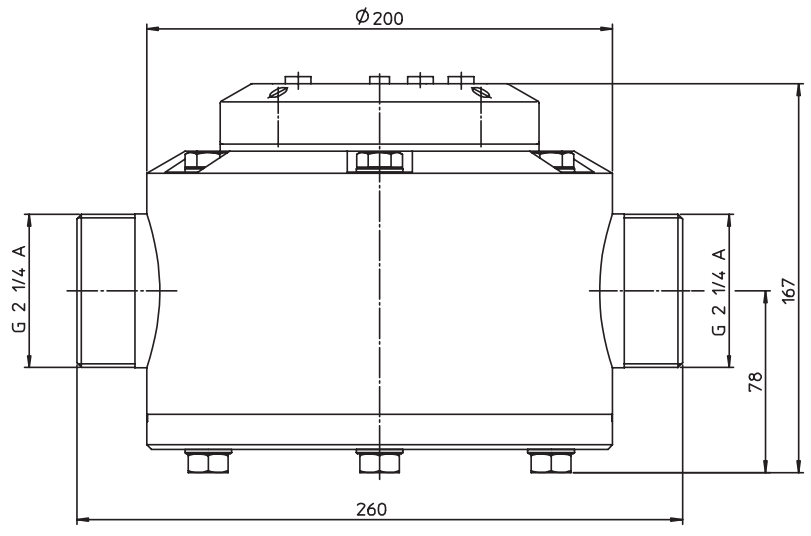
for wall mounting	10-001 42 008	for mounting into a switchboard	10-001 42 009
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Accessories

Part No.			
Pipe connection RV32-40/25	10-001 41 986	10-001 41 987	10-001 41 988
Pipe connection RV32-40/32	10-001 41 989	10-001 41 990	010-01 41 991

Technical Data Sheet

FMC250 in ETFE for Fixed Installation into Pipework



Type	FMC 250/PP/0/A	FMC 250/PP/1/A	FMC 250/PVDF/0/A	FMC 250/PVDF/1/A
Flowrate	6.6-66 GPM (25-250 lpm)	6.6-66 GPM (25-250 lpm)	6.6-66 GPM (25-250 lpm)	6.6-66 GPM (25-250 lpm)
Operating pressure	max. 87 PSI (6 bar)	max. 87 PSI (6 bar)	max. 87 PSI (6 bar)	max. 87 PSI (6 bar)
Viscosity	max. 2,500 cPs	max. 2,500 cPs	max. 2,500 cPs	max. 2,500 cPs
Operating temperature	max. 140°F (60°C)	max. 140°F (60°C)	max. 140°F (60°C)	max. 140°F (60°C)
Accuracy	± 1%	± 1%	± 1%	± 1%
Mode of operation	Normal mode or auto mode in conjunction with interface amplifier Type FSV 100			
Inlet-outlet connections*	G 2 1/4 A (BSP 2 1/4" male)	G 2 1/4 A (BSP 2 1/4" male)	G 2 1/4 A (BSP 2 1/4" male)	G 2 1/4 A (BSP 2 1/4" 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	9.3 lbs (4.2 kg)	9.3 lbs (4.2 kg)	9.3 lbs (4.2 kg)	9.3 lbs (4.2 kg)
Part No.	10-A04 25 400	10-A04 25 410	10-A04 25 600	10-A04 25 610

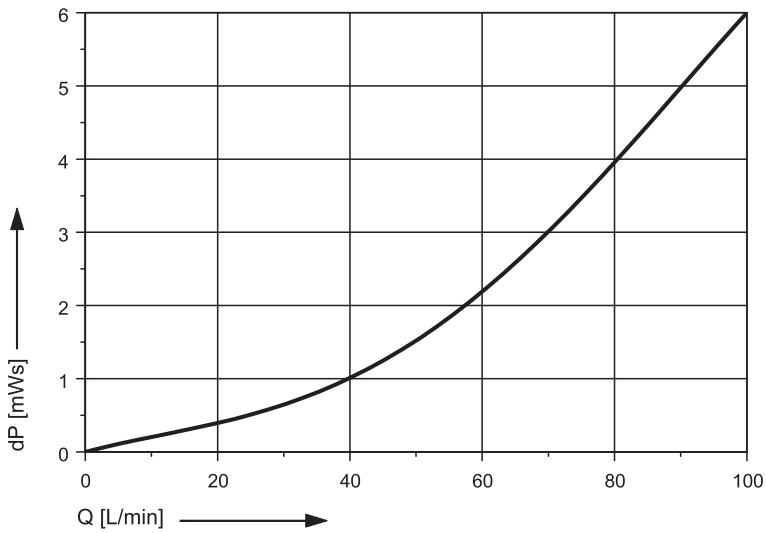
* other connections on request

Technical Data Sheet

Pressure Loss Charts

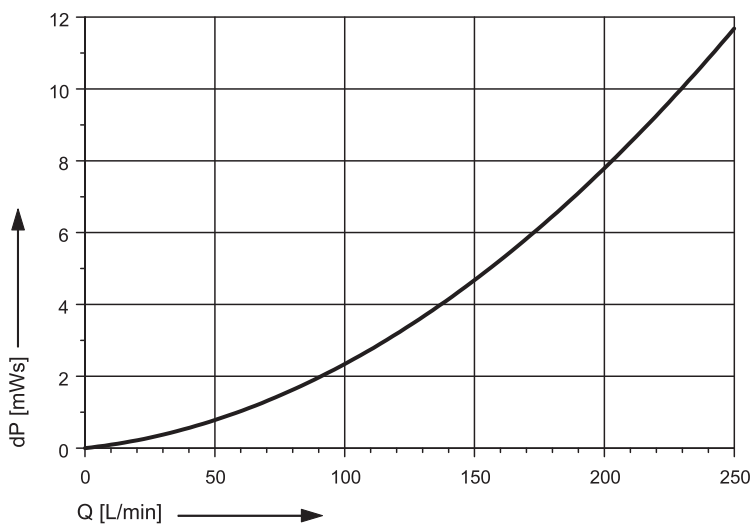
Type FMC 100

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



Type FMC 250

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



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