



Flow meter

**M123**  
**M335**  
**M350**

PP-H  
**DATASHEET**

# Overview

## General

Materials	measuring tube float O-Ring	PA , PSU PVDF EPDM
Dimension M123	DN10 – DN25 d16 – d32 3/4 " – 1 1/2 "	
Dimension M335/M350	DN25 – DN65 d32 – d75 1 1/2 " – 3 1/2 "	
Connection	welding socket	metric
Operating pressure		PN10

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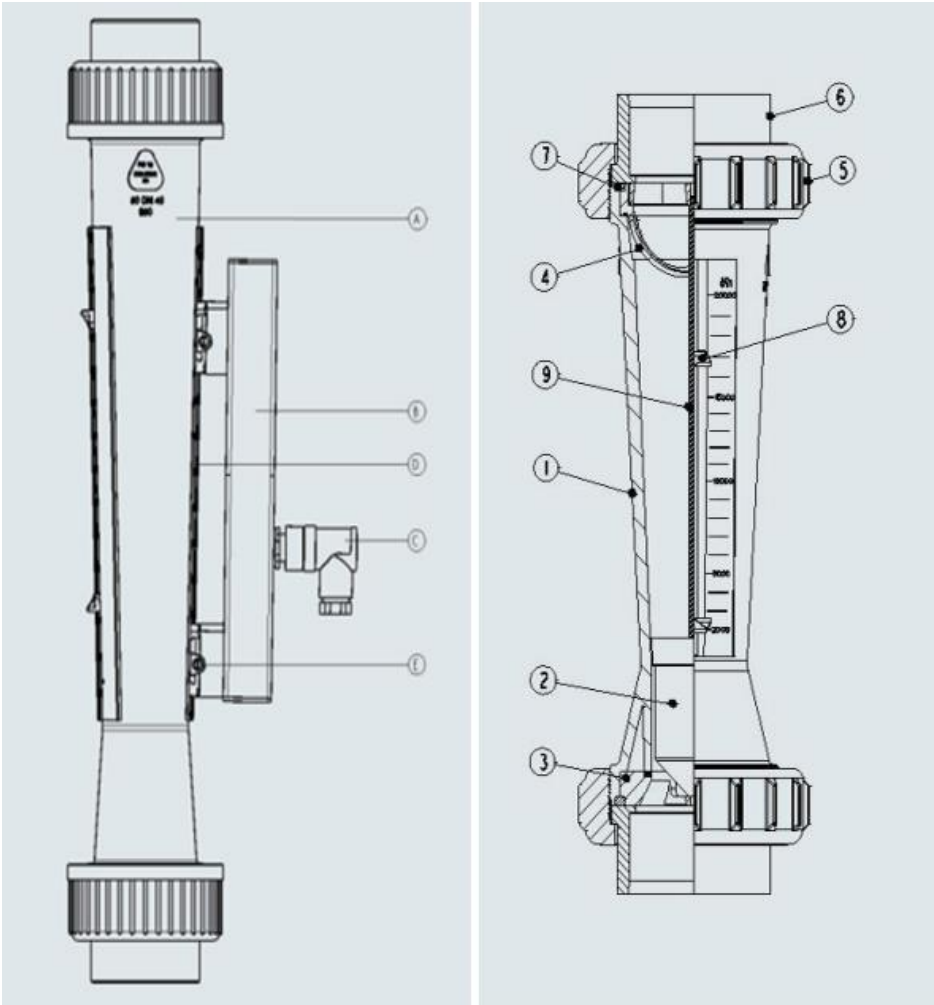
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Dimensions site 7

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Accessories: limit contacts, measuring sensor, special scales site 8

# Exploded drawing



No.

1	measuring tube	PA, PSU
2	float	PVDF
3	insert bottom	PVDF
4	insert top	PVDF
5	union nut	PP

6	insert	PP-H
7	O-Ring	EPDM
8	set point indicator	
9	guide rod*	
	* DN50 und DN65	

A	flow meter M335 / M350 with magnetic float
B	measurement sensor Z60
C	plug connection

D	guide rail
E	clamping screws for fastening and adjusting the sensor

## Pressure loss

Measuring range l/h	Pressure loss mbar
50 - 500	22.84
100 - 1.000	22.84
150 - 1.500	22.84
250 - 2.500	22.84
200 - 2.000	24.99
300 - 3.000	24.99
600 - 6.000	24.99
1.000 - 10.000	24.99
1.500 - 15.000	28.23
2.000 - 20.000	45.67
3.000 - 30.000	45.67
8.000 - 60.000	47.24

## Material resistance

d	DN	Measuring range H <sub>2</sub> O l/h	M335 / M350
32	25	50-500	▲ ■ ●
32	25	100-1.000	▲ ■ ●
40	32	150-1.500	▲ ■ ●
40	32	250-2.500	▲ ■ ●
50	40	200-2.000	▲ ■ ●
50	40	300-3.000	▲ ■ ●
50	40	600-6.000	▲ ■ ●
63	50	600-6.000	▲ ■ ●
63	50	1.000-10.000	▲ ■ ●
63	50	1.500-15.000	▲ ■ ●
75	65	2.000-20.000	▲ ■ ●
75	65	3.000-30.000	▲ ■ ●
75	65	8.000-60.000	▲ ■ ●

Sign Explanation:

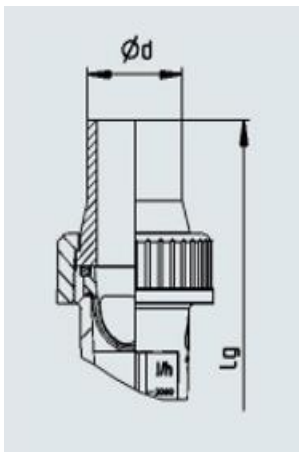
▲ PA (polyamide trogamide) ■ PSU (polysulphone) ● PVC

# Chemical resistance (float) flow meter

	Medium	formula	concentration	Measuring tube material			Guide rod, float, stops
				PV C-U	PA	PSU	
Acid	Phosphoric acid	H3PO4	< 75 %	x	-	x	X
	Sulfuric acid	H2SO4	< 78 %	x	-	-	X
	Nitric acid	HNO3	< 58 %	0	-	-	X
	Nitric acid	HNO3	67 %	-	-	-	X
	Hydrofluoric acid	HF	< 40 %	0	-	-	X
	Hydrochloric acid	HCl	< 36 %	x	-	-	X
Lye	ammonia	NH4OH	25 %	X	X	X	-
	Potassium hydroxide solution	KOH	< 50 %	X	0	X	-
	Nontronic Lye	NaOH	< 40 %	x	0	X	-
Anorganica	ferric chloride	FeCL3		X	-	X	X
	Chlorine bleaching lye	NaOCl	< 6 %	X	-	X	-
	Sodium bisulfide	NaHSO3	< 40 %	X	X	X	X
	Hydrogen peroxide	H2O2	35 %	X	-	X	0
	Aqueous inorganic salt solution (non-oxidizing)	to saturation		x	X	X	X
Organica	Formic acid	HCOOH	85 %	0	-	0	0
	Acetic acid	CH3COO H	< 80 %	X	-	X	X
	Formaldehyde	< 40 %		X	-	X	X
	Ethylene glycol	< 50 %		X	-	X	X
	Acetone	Pure		-	0	-	-
	Ethanol, Methanol	pure		X	-	X	X
	aliphatic hydrocarbons			0	X	x	X

Other concentrations and media on request X = recommended, 0 = conditionally recommended, - = not recommended

# Dimensions



Welding socket

## Dimensions M 335

Welding socket

Measuring range l/h H2O						Welding socket		
	d	DN	G	dü	L	d	Z	Lm
50 - 500 100 - 1.000	32	25	1 1/2"	60	335	32	345	381
150 - 1.500 250 - 2.500	40	32	2"	72	335	40	345	385
200 - 2.000 300 - 3.000 600 - 6.000	50	40	2 1/4"	83	335	50	345	491
600 - 6.000 1.000 - 10.000 1.500 - 15.000	63	50	2 3/4"	103	335	63	345	399
2.000 - 20.000 3.000 - 30.000 8.000 - 60.000	75	65	3 1/2"	122	335	75	345	407

dimensions in mm

## Dimensions M 350

Welding socket

Measuring range l/h H2O						Welding socket		
	d	DN	G	dü	L	d	Z	Lm
50 - 500 100 - 1.000	32	25	1 1/2"	60	350	32	360	396
150 - 1.500 250 - 2.500	40	32	2"	72	350	40	360	400
200 - 2.000 300 - 3.000 600 - 6.000	50	40	2 1/4"	83	350	50	360	406
600 - 6.000 1.000 - 10.000 1.500 - 15.000	63	50	2 3/4"	103	350	63	360	414
2.000 - 20.000 3.000 - 30.000 8.000 - 60.000	75	65	3 1/2"	122	350	75	360	422

dimensions in mm

# Accessories

- limit switch Z40.1 min.
- limit switch Z42.1 max.

## Technical data

Switching voltage*	max. 250 V~
Switching capacity*	max. 10 W/10 VA
Switching current*	max. 0.5 A
Contact resistance	< 150 mOhm
Insulation resistance	> 1011 Ohm
Permissible ambient temperature	0 to 55°C
Protection class acc. switch-on and switch-off hysteresis	DIN 40050-IP 65 1-2 mm float travel

\* Even a brief overshoot is not permissible. Especially with inductive or capacitive peaks, such as solenoid valves, this is uncontrollable. It is therefore recommended to use a limit switch or a contact protection relay.

- **Measuring sensor Z60**  
**4-20 mA output signal**

## Technical data

- Supply voltage: 12-24 VDC (+ -10%)
- Current consumption: < 50 mA
- Load resistance: Min. 0 max. 500 Ohm
- Current output: 4-20 mA (3-wire)
- Protection class: IP 65 - Ambient temperature: 0 °C to +50 °C
- Connection: DIN 43650 connector - Measuring accuracy: < 1 %.

### Electrical connection

- Pin 1: Supply voltage +
- Pin 2: Output signal 4-20 mA
- Pin 3: Supply voltage -

### •Special scales

Available media:	Air 0 bar
	Air 1 bar
	Air 2 bar
	HCl 30-33%
	NaOH 30%
	NaOH 50%





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