

# Flow-meter M 123



## Operation:

The **type M123** plastic flow-meter is based on the well known „suspended float” principle and is used for measuring and monitoring flows in closed pipes. The medium flows upwards through the flowmeter and raises the float. The flow rate can be read off against a scale on the flowmeter body. The indication point corresponds to the largest diameter of the float.

The standard **M123** plastic flowmeter is fitted with a scale for water and two limit indicators.

## Special advantages

- rugged and corrosion proof
- may be inserted and removed radially
- available with special scales for almost all liquids and gasses
- guide rail for accessories
- measuring tube labeled with nominal diameter, measuring range and material
- PVDF plastic floats and inserts are standard
- available in measuring ranges from 1.5-1.000 l/h
- less space required due to short unit length.

## Materials:

Tubes	Max Temp. bei 1bar	Float	Inserts	O-Ring
PVC	40 ° C	PVDF	PVDF	EPDM
PSU	100 ° C			FPM
PVDF	140 ° C			

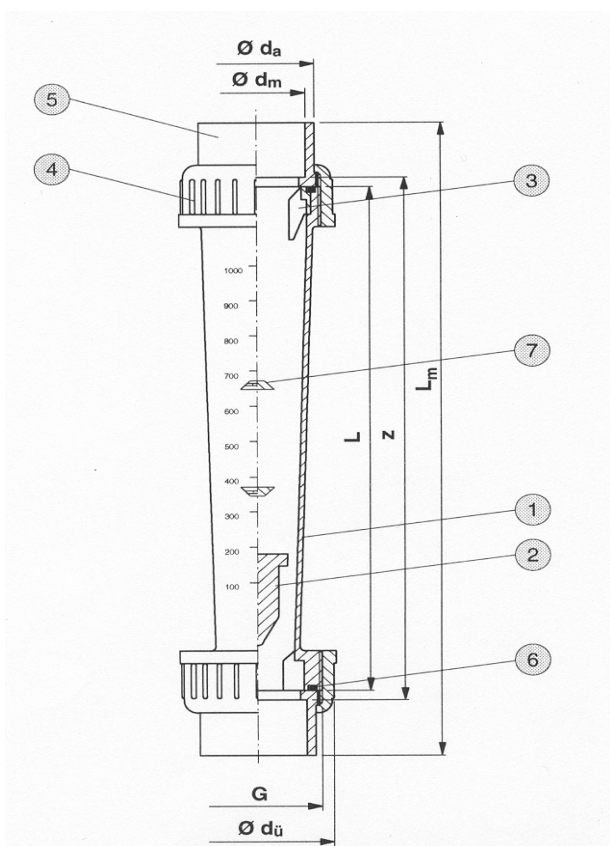
\* PVC tubes in test phase available in near future

## Connection possibilities:

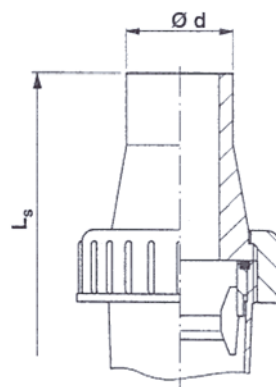
Socket fusions	Butt fusions	Internal thread Plastic	Internal thread Metal
PVC solvent sockets (Standard)	PP fusion sockets	PVC	Stainless steel V4A
PP fusion sockets	PVDF fusion sockets	PP	Malleable iron
PVDF fusion sockets	PE fusion sockets	PVDF	

# Flow-meter M123

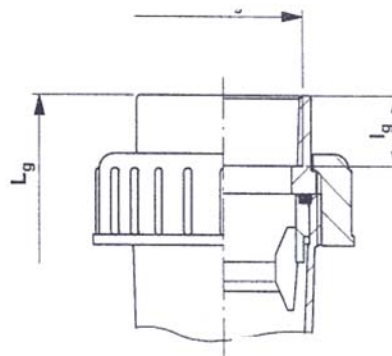
Fittings with **solvent cement / fusion sockets**



Fittings with **butt fusion sockets**



Fittings with **internal female thread**



## Single parts

Pos	Description	Qty.	Material	Pos	Description	Qty.	Material
1	measuring tube	1	PSU/PVC/PVDF	5	tube insert	2	PVC/PP/PVDF
2	suspended float	1	PVDF	6	O-ring	2	EPDM/FPM
3	insert	2	PVDF	7	limit indicator	2	PS
4	union	2	PVC/PP/PVDF				

## Dimensions and weights:

Dimensions in mm																Weight in kg	
Range l/h H2O	DN	dü	G	L	Solvent sockets			Fusion sockets			Butt fusions			Threaded sockets			
					dm	z	Lm	dm	z	Lm	d	Ls	s	dg	Lg	lg	PSU
1.5-15 2.5-25 5-50 10-100	10	35	¾"	165	16	171	199	15.5	175	201				3/8"	199	11	0.08
8-80 15-150 20-200	15	43	1"	185	20	191	223	19.5	195	223	20	293	1.9	½"	223	13	0.13
15-150 30-300 50-500 100-1000	25	60	1 1/2"	200	32	206	250	31.5	210	246	32	320	3.0	1"	250	17	0.24

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## Pressure losses:

Measuring range l/h	1.5-15	2.5-25	5-50	10-100	8-80	15-150	20-200	15-150	30-300	50-500	100-1000
Pressure loss mm Ws	46.0	46.0	46.0	46.0	44.7	44.7	44.7	82.8	82.8	82.8	82.8

Max. operating pressure : with PVC connections 10 bar at 20°C

## Measuring accuracy:

Accuracy class 4 with VDE/DIN 3513 Part 2										
Flow %	10	20	30	40	50	60	70	80	90	100
Total difference from measuring value	13.00%	8.00%	6.333%	5.500%	5.00%	4.667%	4.429%	4.250%	4.111%	4.00%
Total difference from end value	1.3%	1.6%	1.9%	2.2%	2.5%	2.85	3.1%	3.4%	3.7%	4.0%

## Part Nr.

da	DN	Tube Measuring range l/h	PSU DIN metric		PSU ASTM standard		PVDF	
			Float PVDF Part Nr.	Float PVDF Mag. Part Nr.	Float PVDF Part Nr.	Float PVDF Mag. Part Nr.	Float PVDF Part Nr.	Float PVDF Mag. Part Nr.
16	10	1.5-15	73.471	73.648	73.771	on request	on request	on request
16	10	2.5-25	73.472	73.649	73.772	on request	on request	on request
16	10	5-50	73.473	73.650	73.773	on request	on request	on request
16	10	10-100	73.474	73.651	73.774	on request	on request	on request
20	15	8-80	73.475	73.652	73.775	on request	on request	on request
20	15	15-150	73.476	73.653	73.776	on request	on request	on request
20	15	20-200	73.477	73.654	73.777	on request	on request	on request
32	25	15-150	73.478	73.655	73.778	on request	on request	on request
32	25	30-300	73.479	73.656	73.779	on request	on request	on request
32	25	50-500	73.480	73.657	73.780	on request	on request	on request
32	25	100-1000	73.481	73.658	73.781	on request	on request	on request

# Flow-meter M123

## Special scales:

Water l/h	AIR										
	0 bar Nm <sup>3</sup> /h	1 bar Nm <sup>3</sup> /h	2 bar Nm <sup>3</sup> /h	3 bar Nm <sup>3</sup> /h	4 bar Nm <sup>3</sup> /h	5 bar Nm <sup>3</sup> /h	6 bar Nm <sup>3</sup> /h	7 bar Nm <sup>3</sup> /h	8 bar Nm <sup>3</sup> /h	9 bar Nm <sup>3</sup> /h	10 bar Nm <sup>3</sup> /h
<b>1.5-15</b>	0.10-0.55	0.15-0.80	0.17-0.9	0.20-1.1	0.25-1.20	0.25-1.3	0.26-1.45	0.30-1.5	0.3-1.6	0.3-1.7	0.35-1.8
<b>2.5-25</b>	0.2-0.95	0.25-1.3	0.3-1.6	0.4-1.9	0.4-2.1	0.5-2.4	0.5-2.5	0.5-2.7	0.6-2.9	0.6-3.0	0.6-3.2
<b>5-50</b>	0.5-1.9	0.7-2.7	0.8-3.4	1.0-3.8	1.2-4.2	1.2-4.6	1.2-5.0	1.4-5.4	1.4-5.8	1.6-6.0	1.6-6.4
<b>10-100</b>	0.8-3.0	1.0-4.2	1.2-5.4	1.4-6.4	1.6-7.0	1.6-7.4	2.0-8.0	2-8.8	2.0-9.0	2-10	2-10
<b>8-80</b>	0.6-2.8	0.8-4	1.0-5.0	1.2-5.6	1.4-6.4	1.4-7.0	1.5-7.5	1.5-8.0	1.5-8.5	2.0-9.0	2.0-9.5
<b>15-150</b>	1.4-5.6	2-8	2-10	3-12	3-13	3-14	3.5-15	3.5-16.5	4-17	4-18	4-19
<b>20-200</b>	1.5-7.0	2-10	3-13	3-15	4-17	4-18	4-20	5-21	5-23	5-23	5-25
<b>15-150</b>	1.0-6.5	1-9	1.5-11	2-13	2-14.5	2-16	2-17	2.5-18	2.5-19.5	3-20	3-21
<b>30-300</b>	1.5-11	2-15	2.5-18	3-22	3-24	4-26	4-28	4-30	4-33	5-34	5-35
<b>50-500</b>	3-18	4-25	5-30	5-35	6-40	6-44	8-48	8-50	8-54	8-56	10-60
<b>100-1000</b>	6-30	8-44	10-54	12-62	12-70	15-75	15-80	15-85	20-90	20-95	20-100

Water l/h	HCl 30-33 % l/h	NaOH 30 % l/h	NaOH 50 % l/h
<b>1.5-15</b>	1-10	0.1-2.0	--
<b>2.5-25</b>	2.5-20	0.2-5	--
<b>5-50</b>	5-40	1-14	--
<b>10-100</b>	10-85	3-35	--
<b>8-80</b>	8-70	2-23	0.2-3.5
<b>15-150</b>	15-125	3-55	0.5-10
<b>20-200</b>	20-170	5-80	0.5-16
<b>15-150</b>	15-125	3-55	0.5-11
<b>30-300</b>	30-260	6-130	1-33
<b>50-500</b>	50-425	10-250	2-80
<b>100-1000</b>	100-850	40-600	10-220

### Assembly note for special scales:

When attaching special scales please assure that the marking on the scale ♦ corresponds with the marking on the tube

### Accessories for flow monitoring:

limit switch Z 36 min.  
limit switch Z 38 max.  
for further information see data sheets Z 36 & Z 38

### Special scales for customer requirements necessary data

Medium		
Specific weight	g / cm <sup>3</sup>	
Viscosity	cP oder mPas	
Operating temperature	°C	
Requested measuring range	l/h	

### Contact us for any further questions among:

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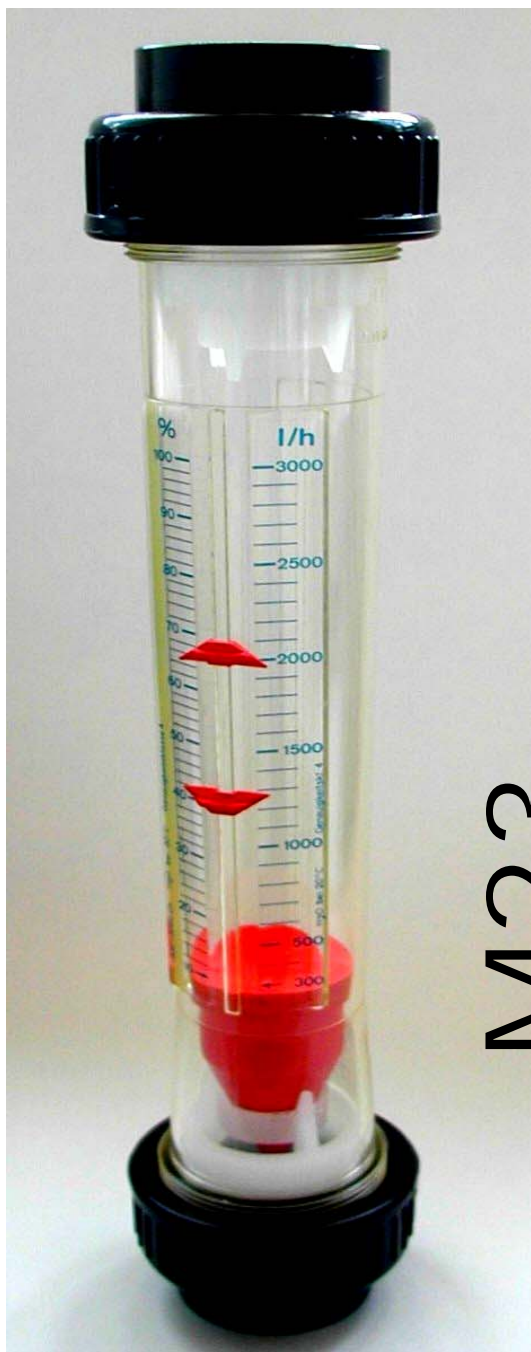
### Installation and assembly references:

- install flowmeters vertically and tension free into the piping system
- anticipate the in- and outlet distance  
inlet aprox. 10 x DN  
outlet aprox.. 5 x DN

### Operating information

- avoid pressure blows as these may lead to damages of the device
- caution by installation. The measuring tube should not come into contact with solvents.
- before use all connections should be examined for sufficient strain.
- please do not exchange the unions on our PVDF tubes. The construction length of the tube does not correspond with the measuring index.

# Flowmeter M 23



M23

## Operation:

The **type M 23** plastic flowmeter is based on the well known „suspended float“ principle and is used for measuring and monitoring flows in closed pipes. The medium flows upwards through the flowmeter and raises the float. The flow rate can be read off against the scale on the flowmeter body. The indication point corresponds to the largest diameter of the float.

The standard **type M 23** plastic flowmeter is fitted with a scale for water and two limit indicators.

## Special advantages:

- Break and corrosion proof
- May be inserted and removed radially
- Available with special scales for almost all liquids and gasses
- Guide rail for accessories  
Limit switches, flow transmitters for remote indication
- Measuring tube labeled with nominal diameter, measuring range and material
- PVDF plastic floats and inserts are standard
- Available in measuring ranges from 15-60.000 l/h

## Materials

Tubes	Max Temp. bei 1bar	Float	Inserts	O-Ring
PA	60 ° C	PVDF (Standard)	PVDF	EPDM
PVC*	40° C	V2a		FPM (Viton)
PSU	100 ° C	*PVC (for 8000-60000)		
PVDF	140 ° C			

\*PVC tubes in test phase available in near future

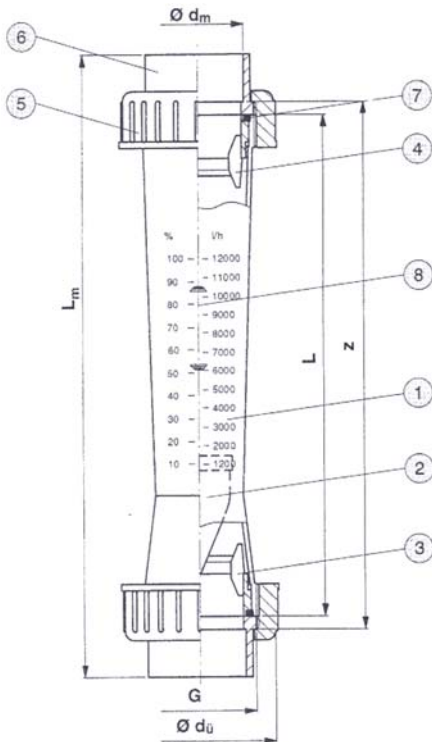
## Connection possibilities

Socket fusions	Butt fusions	Internal thread plastic	Internal thread metal
PVC solvent sockets (Standard)	PP fusion sockets	PVC	Stainless steel V4A
PP fusion sockets	PVDF fusion sockets	PP	Malleable iron
PVDF fusion sockets	PE fusion sockets	PVDF	

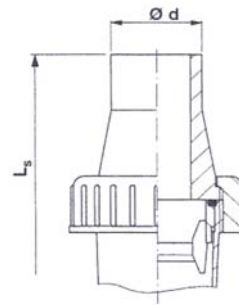


# Flow Meter M23

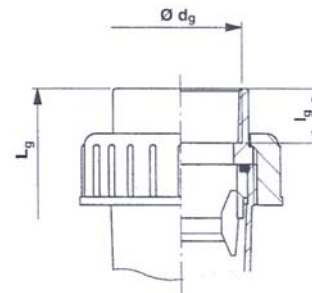
**Fittings with solvent cement/fusion sockets**



**Fittings with Butt fusion sockets**



**Fittings with internal female thread**



## Single parts

Pos.	Description	Qty	Material
1	Measuring tube	1	PA,PVC, PSU,PVDF
2	Suspended float	1	PVDF, V2A
3	Lower insert	1	PVDF
4	Upper insert	1	PVDF

Pos.	Description	Qty.	Material
5	Union	2	PVC, PP, PVDF
6	Inserts (fusion, Butt fusion)	2	PVC, PP, PVDF
7	O-Ring	2	EPDM, FPM
8	Limit indicator	2	PS

## Dimensions and weights

Dimensions in mm																				Weight in kg/pc.	
Range l/h H <sub>2</sub> O	DN	d <sub>u</sub>	G	L	Solvent cement socket			Fusion socket			Butt fusion socket PP			Butt fusion socket PVDF			Threaded socket			PVC PA PSU	PVDF
					d <sub>m</sub>	z	L <sub>m</sub>	d <sub>m</sub>	z	L <sub>m</sub>	d	L <sub>s</sub>	S SDR 11	d	L <sub>s</sub>	S SDR 33	d <sub>g</sub>	L <sub>g</sub>	l <sub>g</sub>		
15-150 50-500 100-1000	25	60	11/2"	335	32	341	385	31,5	345	381	32	455	3	32	443	2,4	1"	385	22	0,41	0,52
200-2000 300-3000	40	83	21/4"	335	50	341	403	50	345	391	50	467	4,6	50	459	3	11/2"	403	23	1,02	1,22
600-6000 1200-12000	50	103	23/4"	335	63	341	417	63	345	399	63	473	5,8	63	461	3	2"	418	24	1,38	1,68
2000-20000 3000-30000 8000-60000	65	122	31/2"	335	75	341	429	75	345	407	75	753	6,9	75	453	3,6	-	-	-	2,15	2,9

# Flow meter M23

## Pressure losses

Measuring range l/h	15-150	50-500	100-1000	200-2000	300-3000	600-6000	1200-12000	2000-20000	3000-30000	8000-60000*
Pressure loss (mm WS)	185.3	185.3	185.3	251.6	251.6	254.8	251.6	254.8	251.6	335.7

Max operating pressure : PN 10 bei 20 ° C

## Measuring accuracy

Accuracy class 4 with VDE/DIN 3513 Blatt 2										
Flow %	10	20	30	40	50	60	70	80	90	100
Total difference from measuring value	13.00%	8.00%	6.333%	5.500%	5.00%	4.667%	4.429%	4.250%	4.111%	4.00%
Total difference from end value	1.3%	1.6%	1.9%	2.2%	2.5%	2.85	3.1%	3.4%	3.7%	4.0%

## Part-no.

DN	TUBE	PA			PSU			PVDF	
	Measuring range l/h	Float PVDF DIN metric	Float PVDF ASTM	Float PVDF Mag. bi	Float PVDF DIN metric	Float PVDF ASTM	Float PVDF Mag. bi	Float PVDF DIN metric	Float PVDF Mag. bi
		Part-no:	Part-no:	Part-no:	Part-no:	Part-no:	Part-no:	Part-no:	Part-no:
25	15-150	72.598	72.614	73.620	73.629	74.032	73.639	on request	
25	50-500	72.603	72.615	73.621	73.630	74.033	73.640	on request	
25	100-100	72.604	72.616	73.622	73.631	74.034	73.641	on request	
40	200-2000	71.807	72.617	73.623	73.632	74.035	73.642	on request	
40	300-3000	72.599	72.618	73.624	73.633	74.036	73.643	on request	
50	600-6000	72.605	72.619	73.625	73.634	74.037	73.644	on request	
50	1200-12000	72.606	72.620	73.626	73.635	74.038	73.645	on request	
65	2000-20000	72.607	72.621	73.627	73.636	74.039	73.646	on request	
65	3000-30000	72.608	72.622	73.628	73.637	74.040	73.647	on request	
65	8000-60000	72.609	72.623		73.638	74.041		on request	

DN	TUBE	PVC		
	Measuring range l/h	Float V2A	DN	Measuring range l/h
		Artikel Nr.		
25	15-150			
25	50-500			
25	100-100			
40	200-2000			
40	300-3000			
50	600-6000			
50	1200-12000			
65	2000-20000			
65	3000-30000			
65	8000-60000			

### Assembly note for special scales

When attaching special scales please assure that the marking on the scale ♦ corresponds with the marking on the tube.

#### Accessories:

Limit switch **Z 32** bistable  
 Limit switch **Z 31** monostable  
 Flow transmitter **Z 50** 4-20 mA Outlet  
 For further info. See data sheets Z32, Z31 and Z50

# Flow Meter M23

## Special scales

Flow range	AIR 0 bar		AIR 1 bar		AIR 2 bar		AIR 3 bar	
H2O l/h	Artikel Nr.	N m3/h	Artikel Nr.	N m3/h	Artikel Nr.	N m3/h	Artikel Nr.	N m3/h
15-150	00.000.690	0.8-5	00.000.691	1.2-7	00.000.692	1.4-9	00.000.693	1.6-10
50-500	00.000.707	2-18	00.000.709	3-25	00.000.710	4-30	00.000.711	5-35
100-1000	00.000.725	4-34	00.000.730	6-50	00.000.731	8-60	00.000.732	8-70
200-2000	00.000.748	10-70	00.000.750	12-90	00.000.751	14-120	00.000.752	15-130
300-3000	00.000.766	10-90	00.000.767	15-130	00.000.768	20-160	00.000.769	20-190
600-6000	00.000.784	22-190	00.000.785	30-260	00.000.786	40-380	00.000.787	40-400
1200-12000	00.000.802	45-370	00.000.803	60-520	00.000.804	80-660	00.000.805	100-760
2000-20000	00.000.816	60-580	00.000.817	90-800	00.000.818	100-1060	00.000.819	120-1200
3000-30000	00.000.832	100-860	00.000.833	140-1200	00.000.834	200-1500	00.000.835	200-1700

Range	AIR 4 bar		AIR 5 bar		AIR 6 bar		AIR 7 bar	
H2O l/h	Artikel Nr.	N m3/h	Artikel Nr.	N m3/h	Artikel Nr.	N m3/h.	Artikel Nr.	N m3/h
15-150	00.000.694	2-12	00.000.695	2-13	00.000.696	2-14	00.000.697	2.5-14
50-500	00.000.712	5-40	00.000.713	6-43	00.000.714	6-45	00.000.715	7-50
100-1000	00.000.733	10-74	00.000.734	10-84	00.000.735	10-90	00.000.736	12-96
200-2000	00.000.753	20-150	00.000.754	20-160	00.000.755	20-170	00.000.756	20-190
300-3000	00.000.770	25-210	00.000.771	25-230	00.000.772	30-250	00.000.773	30-260
600-6000	00.000.788	50-450	00.000.789	50-480	00.000.790	75-500	00.000.791	70-550
1200-12000	00.000.806	100-840	00.000.807	100-900	00.000.808	100-1000	00.000.809	120-1000
2000-20000	00.000.820	150-1300	00.000.821	150-1500	00.000.822	150-1500	00.000.823	200-1700
3000-30000	00.000.836	250-1900	00.000.837	250-2100	00.000.838	300-2200	00.000.839	300-2400

Range	AIR 8 bar		HCl 30-33 % (PSU)	NaOH 30 %		NaOH 50 %		
H2O l/h	Artikel Nr.	N m3/h	Artikel Nr.	l/h	Artikel Nr.	l/h	Artikel Nr.	l/h
15-150	00.000.698	2.5-15	00.000.846	20-130	00.000.847	3-46	00.000.848	0.5-7
50-500	00.000.716	6-52	00.000.855	60-460	00.000.856	10-270	00.000.857	2.5-70
100-1000	00.000.737	12-100	00.000.869	120-900	00.000.867	40-600	00.000.866	6-220
200-2000	00.000.757	20-200	00.000.937	200-1900	00.000.877	100-1400	00.000.875	20-600
300-3000	00.000.774	30-280	00.000.885	300-2700	00.000.884	200-2000	00.000.883	50-1200
600-6000	00.000.792	75-550	00.000.890	800-5600	00.000.892	400-4600	00.000.891	200-3400
1200-12000	00.000.810	140-1100	00.000.896	1200-10000	00.000.898	800-8400	00.000.897	300-5600
2000-20000	00.000.824	200-1800	00.000.904	2000-18000	00.000.905	1400-15000	00.000.906	500-11000
3000-30000	00.000.840	300-2500	00.000.908	3000-25000	00.000.909	2000-20000	00.000.910	1000-14000

Special scales on request		
Necessary data		
Medium		
Specific weight	g / cm <sup>3</sup>	
Viscosity	cP oder mPas	
Operating temperature	°C	
Requested flow range	l/h	

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### Installation and assembly references:

- Install flowmeters vertically and tension free into the piping system
- Antisipate the In- and Outlet distance  
Inlet approx. 10 x DN  
Outlet approx.. 5 x DN

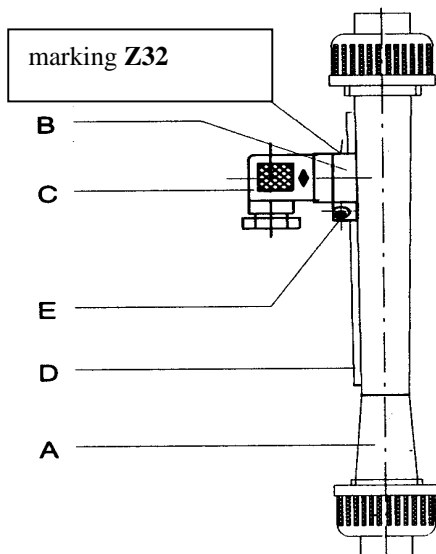
### Operating information

- Avoid pressure blows as these may lead to damages of the device
- Caution by installation. The measuring tube should not come into contact with solvents.
- Before use all connections should be examined for suffecient strain.
- Please do nat exchange the unions on our PVDF tubes. The construction length of the tube does not correspond with the measuring index.



# Limit switches Z31 & Z32

for flow-meter M23



## Functional parts:

- A) flow-meter **M23** with magnetic float
- B) limit switch **Z31** or **Z32**
- C) connector for electrical wiring
- D) dovetail to mount **Z31** or **Z32**
- E) clamping screw to hold the limit switch in position.

### Limit switch Z31 mono-stable:

The limit switch can be positioned anywhere along the **M23**. When the mono-stable magnetic float reaches that position, the limit switch will close and cause a switching action, The limit switch stays closed as long as the magnetic float is near it. When the float moves above or below the limit switch, the **Z31** opens.

### Switching States:

float	limit switch
over the contact	open
level with the contact	close
below the contact	open

### Limit switch Z32 bi-stable

Again, any position on the **M23** can be chosen. Compared to the **Z31**, the **Z32** will remain in its switched state, even if the float moves above or below the limit switch. When the float passes the limit switch again, it reverts back to its initial state. Depending on the direction of installation, the **Z32** will open or close. A marking on the housing allows to choose the function: (see above sketch) **marker upward = contact closes** , **marker downwards = contact opens**

### Switching status

	Float	Limit switch
marking above	above the limit switch	close
	below the limit switch	open
marking below	above the limit switch	open
	below the limit switch	close

Attention! limit switch **Z31** = flow-meter **M23** with monostable float  
 limit switch **Z32** = flow-meter **M23** with bistable float

### Technical Datas:

turn-on voltage	max. 230 V~
breaking capacity	max. 10 W / 12 VA
circuit power	max. 0.5 A
volume-resistance	< 200 m Ohm
direct-current resistivity	> 1011 Ohm
allowed ambient temperature	0 - + 55 °C
protection	DIN 40050 – IP 65
on- & off-hysteresis <b>Z31</b>	1 – 2 mm float-way
entirehysteresis at overdrive of <b>Z31</b>	30 – 35 mm
on- & off-hysteresis <b>Z32</b>	3 – 12 mm float-way
dimenions	49 x 30 x 47
weight with plug	40 g

### Attention!!

The figures of the turn-on voltage, breaking capacity and the circuit power may not be higher, not even for a minimal time, than the stated figures otherwise the reed-contact can be damaged.

### Assemble-Guide

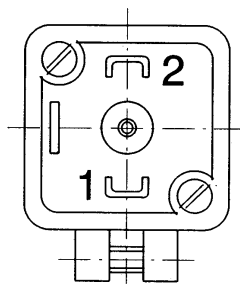
1. put the limit switch (B) on the dovetail (D) of the flow-meter (A)
2. set the desired value and fix it with the locking screw (E)
3. put off and wire the plug (C)
4. screw the plug with insert seal

### part-nos:

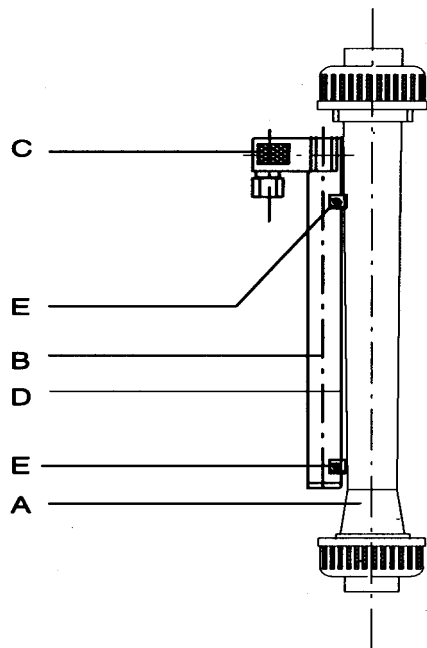
<b>Z31 monostable</b>	<b>73.660</b>
<b>Z32 bistable</b>	<b>73.659</b>

### Connection allocation Z31 / Z32

Limit switch without plug (above view)



# Measuring-sensor Z50 for flow-meter M23



## Functional parts:

- A) flow-meter M23 with monostable magnetic float
- B) measuring-Sensor Z50
- C) connection
- D) dovetail to mount Z50
- E) clamping screw to hold the measuring sensor in position

## Advantages:

- simple assembling
- analoge outgoing signal 4 – 20 mA
- 24 V DC power supply
- protected by IP 65
- body of PVC-U
- connection through DIN plug

## Function

The measuring-sensor Z50, which is mounted on the flow-meter M23, supplies in proportional to the position of the magnetic float an analog outgoing signal of 4-20mA. This signal can be used directly without any additional plotting station. This means a really competitive possibility for the remotely - indication or -regulation of the flow rates. Of course Z50 can be assembled later into the application. Required is just a monostable magnetic float in the flow-meter. For the best possible reproducibility we offer two different measuring sensors Z50, which are optimal adapted for the different measuring ranges.

## Assembling-guide

1. put the measuring-sensor on the dovetail of the flow-meter
2. adjust the marking on the measuring-sensor with the 50% marking of the scale on the flow-meter
3. tight the clamping screw
4. put off and wire the plug acc. to default

## Technical datas

line-voltage	24 V ± 10 %
current consumption	ca. 6 mA 4 mA at the power interface
apparent power resistor	min. 0 Ohm, max. 250 Ohm
current-exit	4-20 mA max. voltage increase + 5 V
electr. tolerance	max. + 1-3% from measuring value
protection	IP 65 acc. DIN 40050
allowed ambient temperature	0 °C – + 50°C
connection	DIN plug DIN 43650
protection device	reverse battery protection / intigrated noisefilter for the operating voltage

measuring-sensor type	measuring range l/h
<b>Z50/1</b> Part-no: ON REQUEST	15 -150
	100-1000
	1200-12000
	2000-20000
<b>Z50/2</b> Part-no: ON REQUEST	3000-30000
	50-500
	200-2000
	300-3000

## Electrical connection:

Pin 1 : operating voltage 24 V  
Pin 2 : outgoing signal 4-20 mA  
Pin 3 : 0 V

