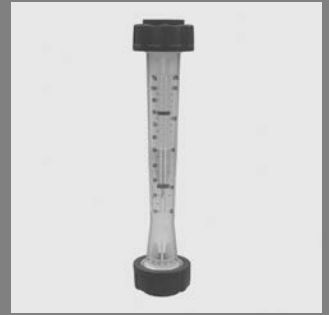


# Flowmeter with float



## Advantage

- measuring ranges graduated in line with practical requirements according to DIN
- face-to-face dimension = type designation 165 mm
- face-to-face dimension = type designation 170 mm
- face-to-face dimension = type designation 185 mm
- face-to-face dimension = type designation 200 mm
- face-to-face dimension = type designation 335 mm
- face-to-face dimension = type designation 350 mm
- measuring accuracy according to VDI/VDE 3513
- materials with reduced moisture absorption increase the measured value stability
- process automation using optional components such as flow data sensor ZE 3000 or limit reed switches ZE 950/ZE 951
- special scales according to the medium property

## Application

- chemical plants
- water treatment

## Measuring Principle

- The medium – water, air, fluid or gaseous chemicals – flows vertically through the flowmeter from the bottom to the top. The float is lifted frictionless by the flow forces and directly indicates the flow volume specified on the measuring tube scale with its top read-off edge (maximum diameter).

## Version

- The conical measuring tube is equipped as standard with a measuring scale in l/h for water at 20°C. It is fitted with external dovetail strips with two moveable setpoint indicators for visual marking of the minimum and maximum flow volume or for accommodating flow data sensor ZE 3000 or limit reed switches ZE 950/ZE 951.
- The measuring tube contains the float, made of PVDF as standard, as well as the float trap.

## Measuring Range

- see table measuring range

## Flow Media

- Technically pure, neutral or aggressive fluid or gaseous media, provided that the valve components coming into contact with the media are resistant at the operating temperature according to the ASV-resistance guide!
- Attention: A PVC measuring tube cannot be used for gaseous media.

## Nominal Pressure (H<sub>2</sub>O, 20°C)

- PN 10

## Fluid Temperature

- see pressure-/temperature diagram

## Operating Pressure

- see pressure-/temperature diagram

## Size

- DN 10 - DN 65

## Viscosity

- for media differing from H<sub>2</sub>O
- DN 10 - DN 40: max. 200 - 350 mPas
- DN 50 - DN 65: max. 500 mPas

## Measuring Accuracy

- Class 4 according to VDI/VDE 3513, page 2
- VDI = Association of German Engineers
- VDE = Association for Electrical, Electronic & Information Technologies

## Float

- PVDF without magnet
- PVDF with liquid-tight sealed magnet for electronic measurement

## Sealing

- FPM
- EPDM

## Connection

- Measuring tube: PVC-U, PA, PSU DIN 8063 union with union socket end for solvent welding DIN ISO (PVC-U)
- Measuring tube: PVDF union (special thread) with union socket end for fusion welding DIN ISO (PVDF)
- union end with female thread (GTW/VA) on request
- union socket end for fusion welding DIN ISO (PP/PE) on request

## Mounting Position

- vertical

## Flow Direction

- from bottom to top

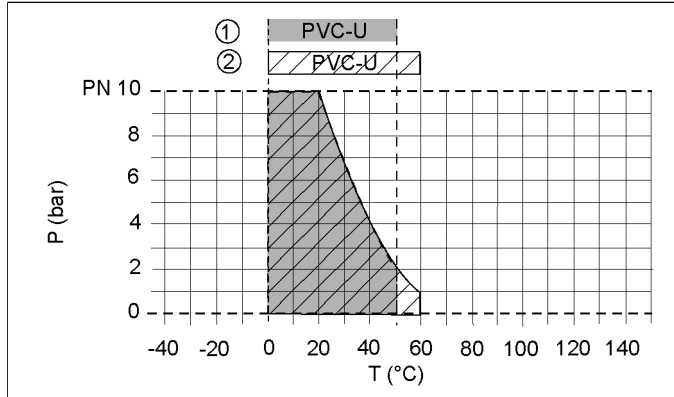
## Accessories

- Special scales
- Flow data sensor ZE 3000 for process automation
- Limit read switch ZE 950, ZE 951 for minimum or maximum flow measurement for process automation

## Flowmeter with float

### Pressure/temperature diagram

Measuring tube: PVC



$P$  = operating pressure

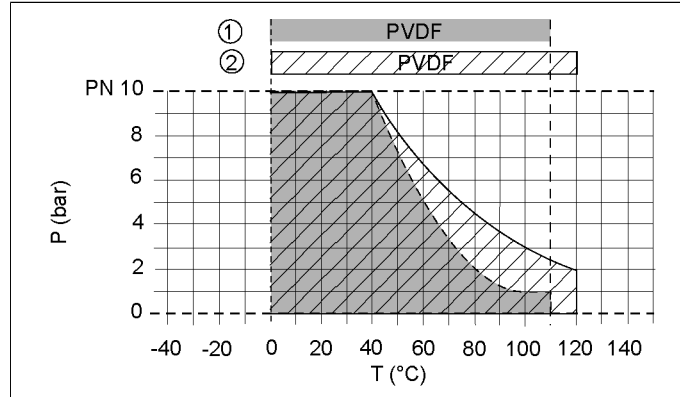
$T$  = operating temperature

1 = diagram PVC - measuring tube

2 = diagram PVC-U - connection

### Pressure/temperature diagram

Measuring tube: PVDF



$P$  = operating pressure

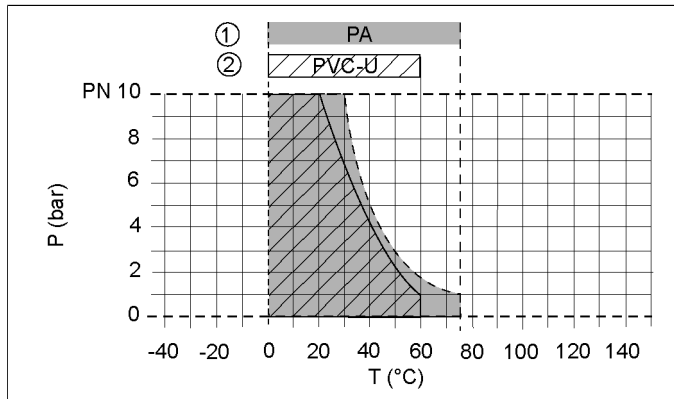
$T$  = operating temperature

1 = diagram PVDF - measuring tube

2 = diagram PVDF - connection

### Pressure/temperature diagram

Measuring tube: PA



$P$  = operating pressure

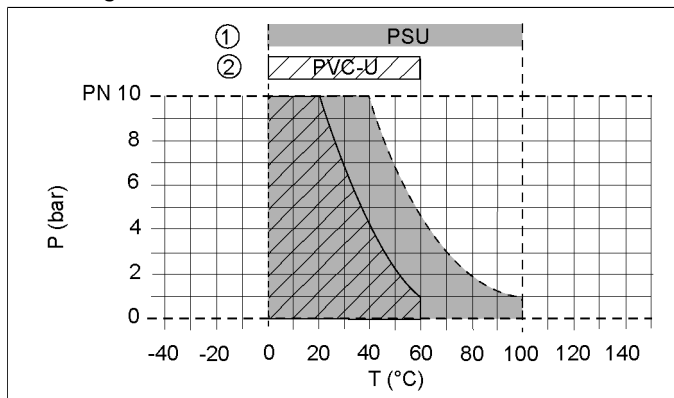
$T$  = operating temperature

1 = diagram PA - measuring tube

2 = diagram PVC-U - connection

### Pressure/temperature diagram

Measuring tube: PSU



$P$  = operating pressure

$T$  = operating temperature

1 = diagram PSU - measuring tube

2 = diagram PVC-U - connection

### Measuring range DFM 165 - DFM 350

Q (l/h) H <sub>2</sub> O	DFM 165	DFM 170	DFM 185	DFM 200	DFM 335	DFM 350
3 - 24	d 16					
5 - 50		d 20				
5 - 60	d 16					
10 - 100	d 16					
15 - 150		d 20	d 25			
25 - 250	d 16	d 20		d 32		
30 - 300						
40 - 400		d 20	d 25	d 32		
60 - 600			d 25		d 32	d 32
100 - 1.000			d 25	d 32	d 32	d 32
150 - 1.500				d 32		d 40
200 - 2.000					d 50	d 50
250 - 2.500						d 40
300 - 3.000					d 50	d 50
400 - 4.000						d 63
600 - 6.000					d 63	d 63
1.000 - 10.000					d 63	d 63
1.500 - 15.000						d 75
2.500 - 25.000					d 75	d 75
10.000 - 50.000					d 75	d 75

### Conversion of flow rate units

	m <sup>3</sup> /s	m <sup>3</sup> /h	l/min	GPM(GB)	GPM(US)	ft <sup>3</sup> /s
1 m <sup>3</sup> /s	1	3600	60000	13198	15850	35,3
1 m <sup>3</sup> /h	2,788·10 <sup>-4</sup>	1	16,667	3,663	4,405	9,803·10 <sup>-3</sup>
1 l/min	1,667·10 <sup>-5</sup>	6·10 <sup>-2</sup>	1	0,219	0,264	0,163
1 GPM (GB)	7,577·10 <sup>-5</sup>	0,273	4,55	1	0,833	2,676·10 <sup>-3</sup>
1 GPM (US)	6,309·10 <sup>-5</sup>	0,227	3,783	1,203	1	2,225·10 <sup>-3</sup>
1 ft <sup>3</sup> /s	2,833·10 <sup>-2</sup>	102	1700	373,69	444,44	1

## Flowmeter with float

### Pressure loss values DFM 165 - DFM 350

Typ	d	DN	DN	$\Delta p^{1)}$	$\Delta p^{2)}$
	mm	mm	Zoll	mbar	mbar
DFM 165	16	10	3/8	3,3	4,8
DFM 170	20	15	1/2	2,5	4,3
DFM 185	25	20	3/4	6,1	8,3
DFM 200	32	25	1	6,1	8,3
DFM 350	32	25	1	12,3	15,9
DFM 350	40	32	1 1/4	12,3	15,9
DFM 350	50	40	1 1/2	12,3	15,9
DFM 350	63	50	2	22,2	27,1
DFM 350	75	65	2 1/2	33,7	40,0

### Operating note

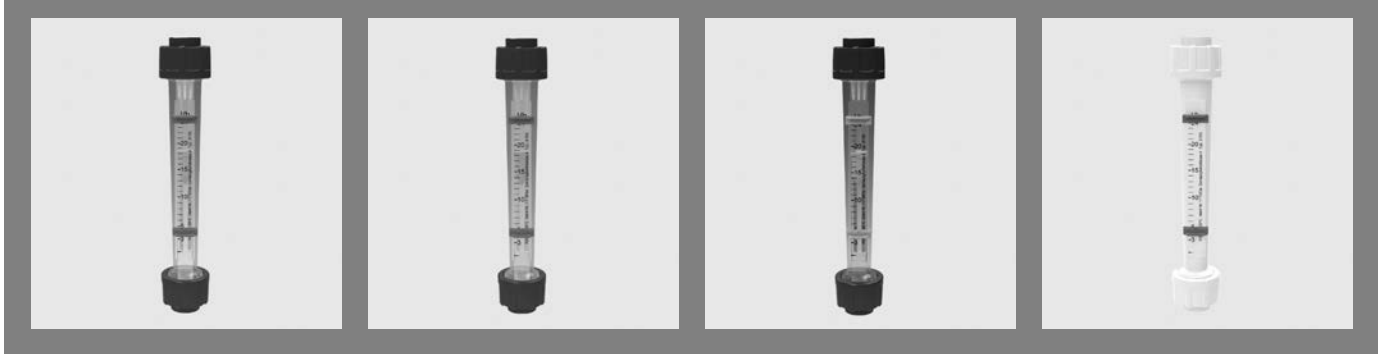
Safe operation of the valve can only be ensured if it is properly installed, operated, serviced or repaired by qualified personnel according to its intended use while observing the accident prevention regulations, safety regulations, relevant standards, directives/technical regulations or codes of practice such as e.g. DIN, DIN EN, DIN ISO and DVS\*. \*DVS = German Welding Society

The intended use includes adhering to specified limit values for pressure and temperature, as well as checking the resistance. This requires all components coming into contact with the medium to be "resistant" in accordance with the ASV resistance guide.

Attention:

A PVC measuring tube cannot be used for gaseous media.

## Flowmeter with float, DFM 165



### Measuring Range

- 3 - 250 l/h

#### body PVC-U

size pressure range	d(mm)		16	16	16	16
	DN(mm)		10	10	10	10
	DN(inch)		3/8	3/8	3/8	3/8
	G(inch)		3/4	3/4	3/4	3/4
	measuring range(l/h)		3-24	5-60	10-100	25-250
Connection	sealing	ident No.				
	EPDM		47500	47501	47502	47503
PVC-U socket end DIN ISO			0.08 kg	0.08 kg	0.08 kg	0.08 kg

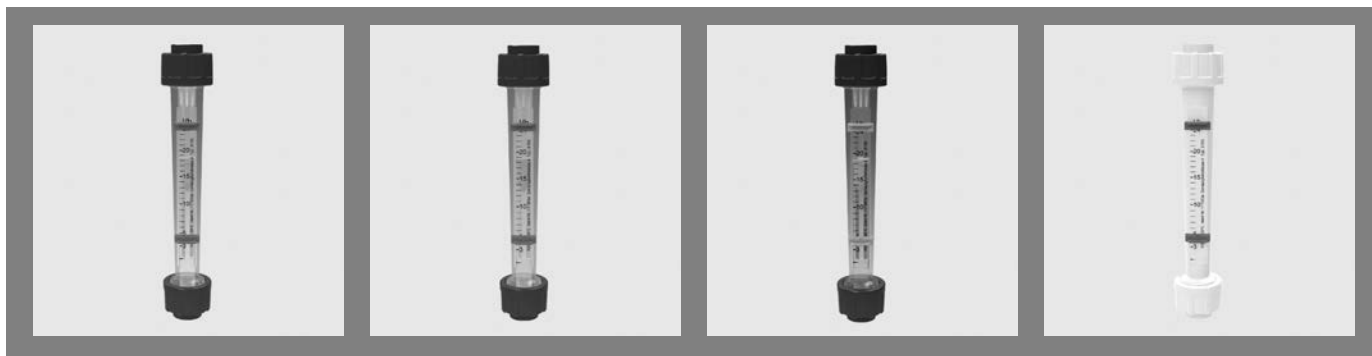
#### body PVC-U float magnet

size pressure range	float		magnet	magnet	magnet	magnet
	d(mm)		16	16	16	16
	DN(mm)		10	10	10	10
	DN(inch)		3/8	3/8	3/8	3/8
	G(inch)		3/4	3/4	3/4	3/4
measuring range(l/h)		3-24	5-60	10-100	25-250	
Connection	sealing	ident No.				
	EPDM		47683	47684	47685	47686
PVC-U socket end DIN ISO			0.08 kg	0.08 kg	0.08 kg	0.08 kg

#### body PA

size pressure range	d(mm)		16	16	16	16
	DN(mm)		10	10	10	10
	DN(inch)		3/8	3/8	3/8	3/8
	G(inch)		3/4	3/4	3/4	3/4
	measuring range(l/h)		3-24	5-60	10-100	25-250
Connection	sealing	ident No.				
	EPDM		47516	47517	47518	47519
PVC-U socket end DIN ISO			0.08 kg	0.08 kg	0.08 kg	0.08 kg

## Flowmeter with float, DFM 165

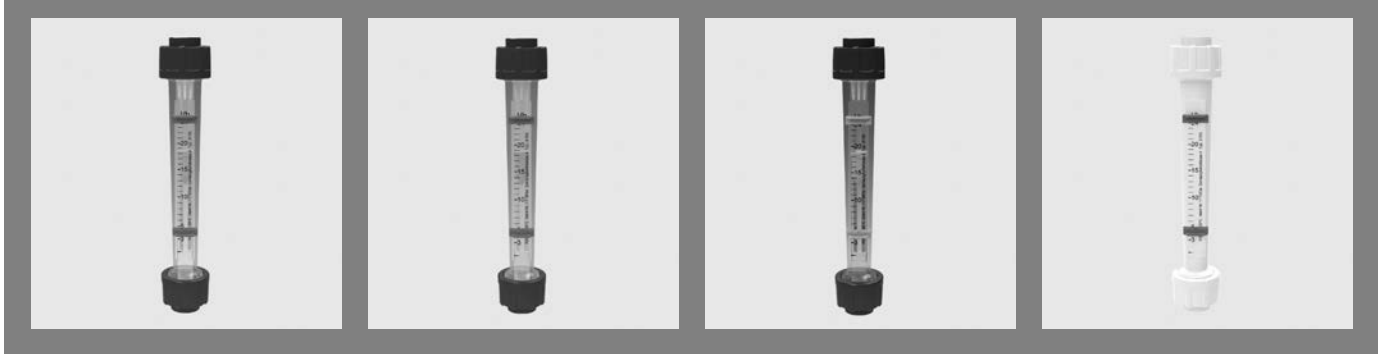


body PA		float magnet				
<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		16	16	16	16
	DN(mm)		10	10	10	10
	DN(inch)		3/8	3/8	3/8	3/8
	G(inch)		3/4	3/4	3/4	3/4
	measuring range(l/h)		3-24	5-60	10-100	25-250
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47699 0.08 kg	47700 0.08 kg	47701 0.08 kg	47702 0.08 kg

body PSU		float magnet				
<i>size</i> <i>pressure range</i>	d(mm)		16	16	16	16
	DN(mm)		10	10	10	10
	DN(inch)		3/8	3/8	3/8	3/8
	G(inch)		3/4	3/4	3/4	3/4
		measuring range(l/h)		3-24	5-60	10-100
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47532 0.08 kg	47533 0.08 kg	47534 0.08 kg	47535 0.08 kg

body PSU		float magnet				
<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		16	16	16	16
	DN(mm)		10	10	10	10
	DN(inch)		3/8	3/8	3/8	3/8
	G(inch)		3/4	3/4	3/4	3/4
	measuring range(l/h)		3-24	5-60	10-100	25-250
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47715 0.08 kg	47716 0.08 kg	47717 0.08 kg	47718 0.08 kg

## Flowmeter with float, DFM 165



### body PVDF

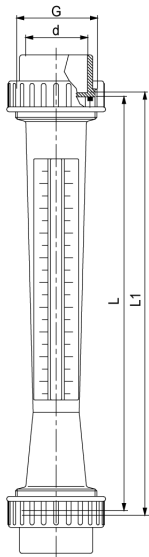
<i>size</i> <i>pressure range</i>	d(mm)		16	16	16	16
	DN(mm)		10	10	10	10
	DN(inch)		3/8	3/8	3/8	3/8
	G(inch)		3/4	3/4	3/4	3/4
	measuring range(l/h)		3-24	5-60	10-100	25-250
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
	PVDF socket end DIN ISO	FPM	141960 <i>0.11 kg</i>	141961 <i>0.11 kg</i>	141962 <i>0.11 kg</i>	141963 <i>0.11 kg</i>

### body PVDF

#### float magnet

<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		16	16	16	16
	DN(mm)		10	10	10	10
	DN(inch)		3/8	3/8	3/8	3/8
	G(inch)		3/4	3/4	3/4	3/4
measuring range(l/h)		3-24	5-60	10-100	25-250	
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
	PVDF socket end DIN ISO	FPM	141964 <i>0.11 kg</i>	141965 <i>0.11 kg</i>	141966 <i>0.11 kg</i>	141967 <i>0.11 kg</i>

## Flowmeter with float, DFM 165



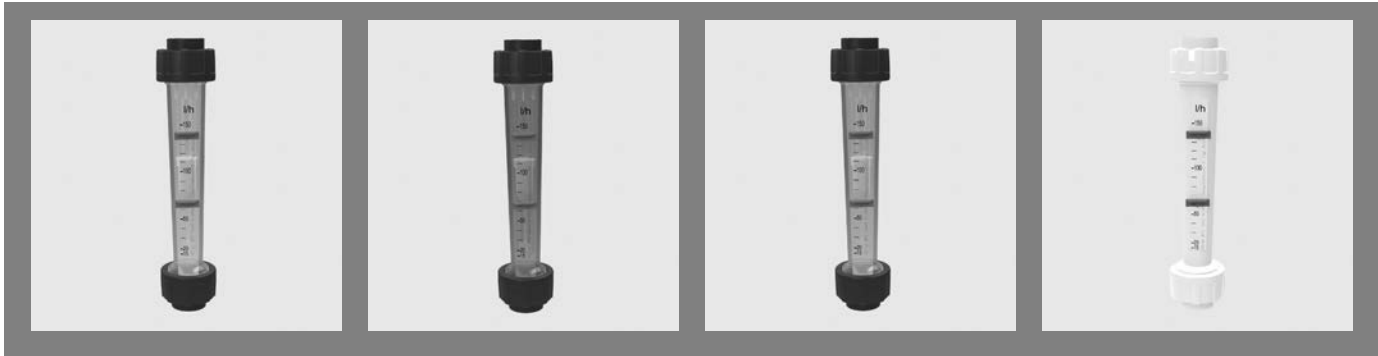
### dimensions

d(mm)	16
DN(mm)	10
DN(inch)	3/8
PN(bar)	10

### dimensions(mm)

d	16
G	3/4
L	165
L1	171

## Flowmeter with float, DFM 170



### Measuring Range

- 5 - 400 l/h

#### body PVC-U

size pressure range	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
	measuring range(l/h)		5-50	15-150	25-250	40-400
Connection	sealing	ident No.				
	PVC-U socket end DIN ISO	EPDM	47504 0.10 kg	47505 0.10 kg	47506 0.10 kg	47507 0.10 kg

#### body PVC-U

#### float magnet

size pressure range	float		magnet	magnet	magnet	magnet
	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
measuring range(l/h)		5-50	15-150	25-250	40-400	
Connection	sealing	ident No.				
	PVC-U socket end DIN ISO	EPDM	47687 0.10 kg	47688 0.10 kg	47689 0.10 kg	47690 0.10 kg

#### body PA

size pressure range	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
	measuring range(l/h)		5-50	15-150	25-250	40-400
Connection	sealing	ident No.				
	PVC-U socket end DIN ISO	EPDM	47520 0.10 kg	47521 0.10 kg	47522 0.10 kg	47523 0.10 kg



## Flowmeter with float, DFM 170

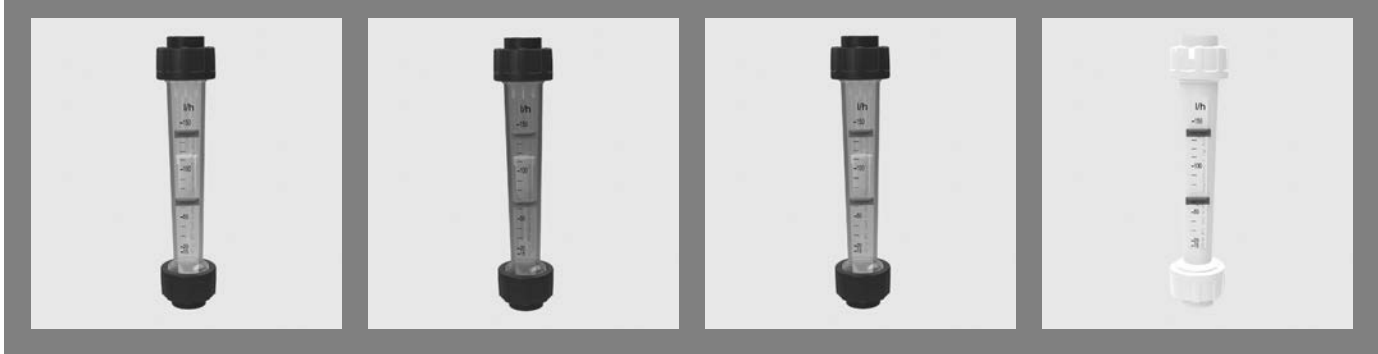


<b>body PA</b>		<b>float magnet</b>				
<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
	measuring range(l/h)		5-50	15-150	25-250	40-400
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47703 0.10 kg	47704 0.10 kg	47705 0.10 kg	47706 0.10 kg

<b>body PSU</b>						
<i>size</i> <i>pressure range</i>	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
		measuring range(l/h)		5-50	15-150	25-250
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47536 0.10 kg	47537 0.10 kg	47538 0.10 kg	47539 0.10 kg

<b>body PSU</b>		<b>float magnet</b>				
<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
	measuring range(l/h)		5-50	15-150	25-250	40-400
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47719 0.10 kg	47720 0.10 kg	47721 0.10 kg	47722 0.10 kg

## Flowmeter with float, DFM 170



### body PVDF

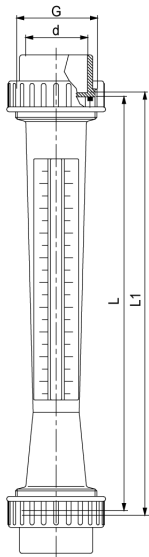
<i>size</i> <i>pressure range</i>	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
	measuring range(l/h)		5-50	15-150	25-250	40-400
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
	<i>PVDF</i> <i>socket end DIN ISO</i>	<i>FPM</i> <i>weight</i>	141968 0.14 kg	141969 0.14 kg	141970 0.14 kg	141971 0.14 kg

### body PVDF

#### float magnet

<i>size</i> <i>pressure range</i>	<i>float</i>		<i>magnet</i>	<i>magnet</i>	<i>magnet</i>	<i>magnet</i>
	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
measuring range(l/h)		5-50	15-150	25-250	40-400	
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
	<i>PVDF</i> <i>socket end DIN ISO</i>	<i>FPM</i> <i>weight</i>	141972 0.14 kg	141973 0.14 kg	141974 0.14 kg	141975 0.14 kg

## Flowmeter with float, DFM 170



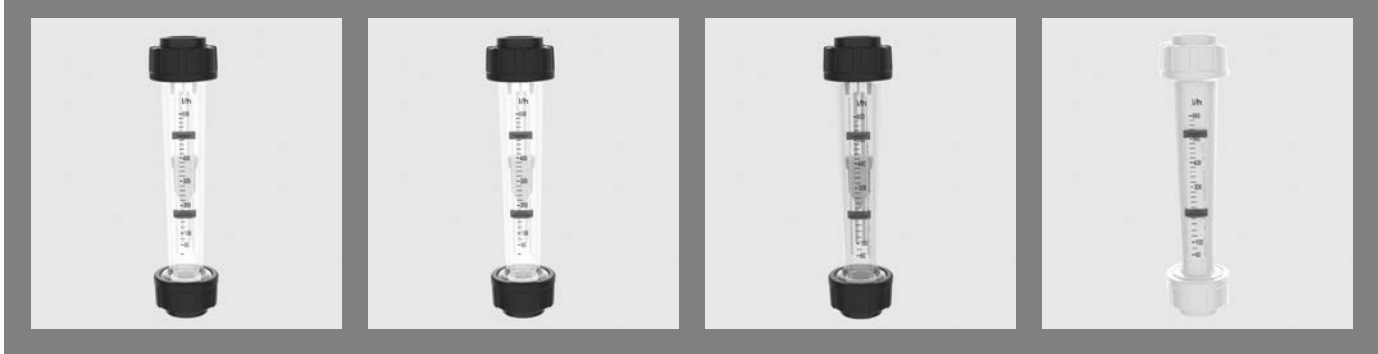
### dimensions

d(mm)	20
DN(mm)	15
DN(inch)	1/2
PN(bar)	10

### dimensions(mm)

d	20
G	1
L	170
L1	176

## Flowmeter with float, DFM 185



### Measuring Range

- 15 - 1,000 l/h

#### body PVC-U

size pressure range	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
	measuring range(l/h)		15-150	40-400	60-600	100-1,000
Connection	sealing	ident No.				
PVC-U socket end DIN ISO	EPDM		47508 0.13 kg	47509 0.13 kg	47510 0.13 kg	47511 0.13 kg

#### body PVC-U

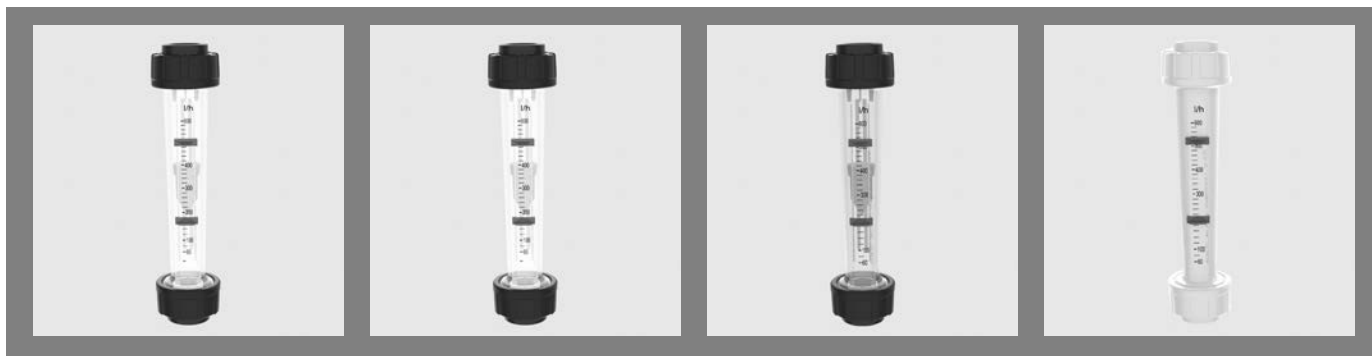
#### float magnet

size pressure range	float		magnet	magnet	magnet	magnet
	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
measuring range(l/h)		15-150	40-400	60-600	100-1,000	
Connection	sealing	ident No.				
PVC-U socket end DIN ISO	EPDM		47691 0.13 kg	47692 0.13 kg	47693 0.13 kg	47694 0.13 kg

#### body PA

size pressure range	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
	measuring range(l/h)		15-150	40-400	60-600	100-1,000
Connection	sealing	ident No.				
PVC-U socket end DIN ISO	EPDM		47524 0.13 kg	47525 0.13 kg	47526 0.13 kg	47527 0.13 kg

## Flowmeter with float, DFM 185

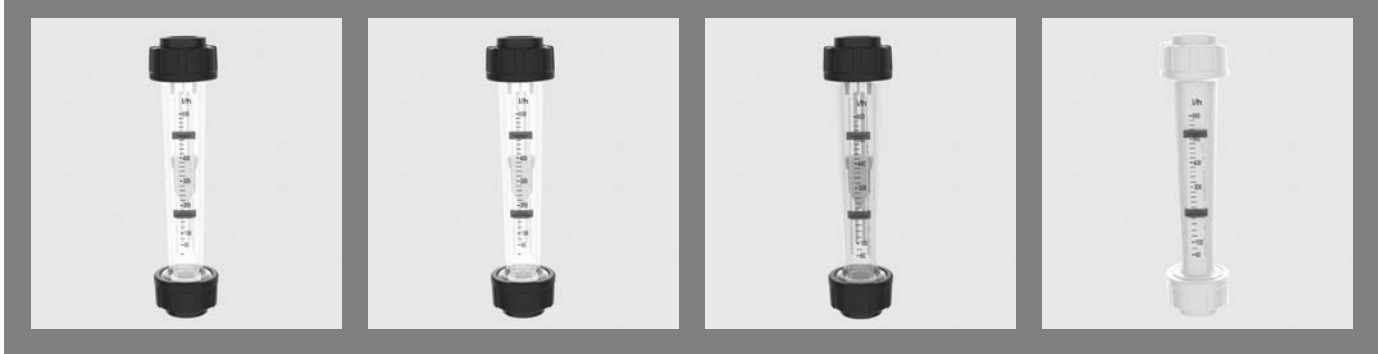


<b>body PA</b>		<b>float magnet</b>				
<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
	measuring range(l/h)		15-150	40-400	60-600	100-1,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47707 0.13 kg	47708 0.13 kg	47709 0.13 kg	47710 0.13 kg

<b>body PSU</b>						
<i>size</i> <i>pressure range</i>	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
		measuring range(l/h)		15-150	40-400	60-600
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47540 0.13 kg	47541 0.13 kg	47542 0.13 kg	47543 0.13 kg

<b>body PSU</b>		<b>float magnet</b>				
<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
	measuring range(l/h)		15-150	40-400	60-600	100-1,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47723 0.13 kg	47724 0.13 kg	47725 0.13 kg	47726 0.13 kg

## Flowmeter with float, DFM 185



### body PVDF

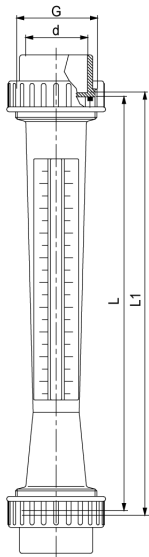
<i>size</i> <i>pressure range</i>	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
	measuring range(l/h)		15-150	40-400	60-600	100-1,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVDF socket end DIN ISO	FPM		141976	141977	141978	141979
	<i>weight</i>		0.18 kg	0.18 kg	0.18 kg	0.18 kg

### body PVDF

#### float magnet

<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
	measuring range(l/h)		15-150	40-400	60-600	100-1,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVDF socket end DIN ISO	FPM		141980	141981	141982	141983
	<i>weight</i>		0.18 kg	0.18 kg	0.18 kg	0.18 kg

## Flowmeter with float, DFM 185



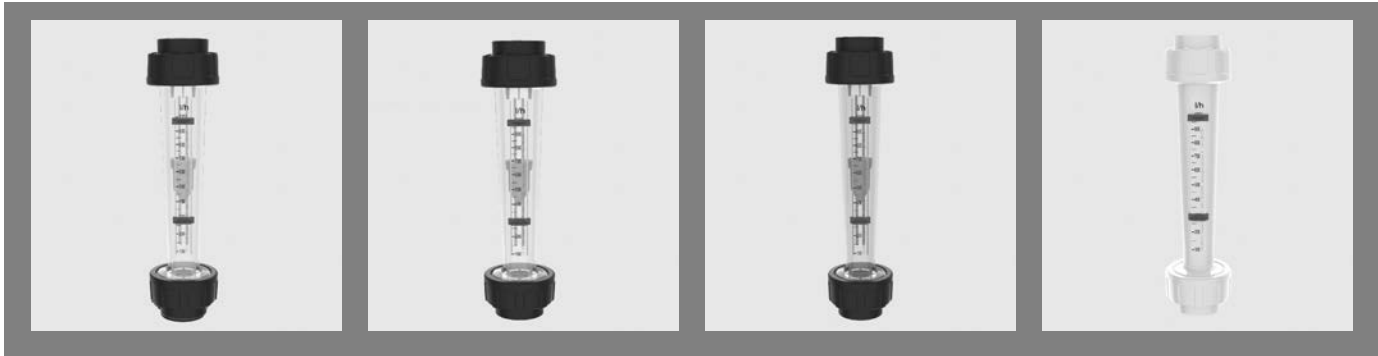
### dimensions

d(mm)	25
DN(mm)	20
DN(inch)	3/4
PN(bar)	10

### dimensions(mm)

d	25
G	1 1/4
L	185
L1	191

## Flowmeter with float, DFM 200



### Measuring Range

- 25 - 1,500 l/h

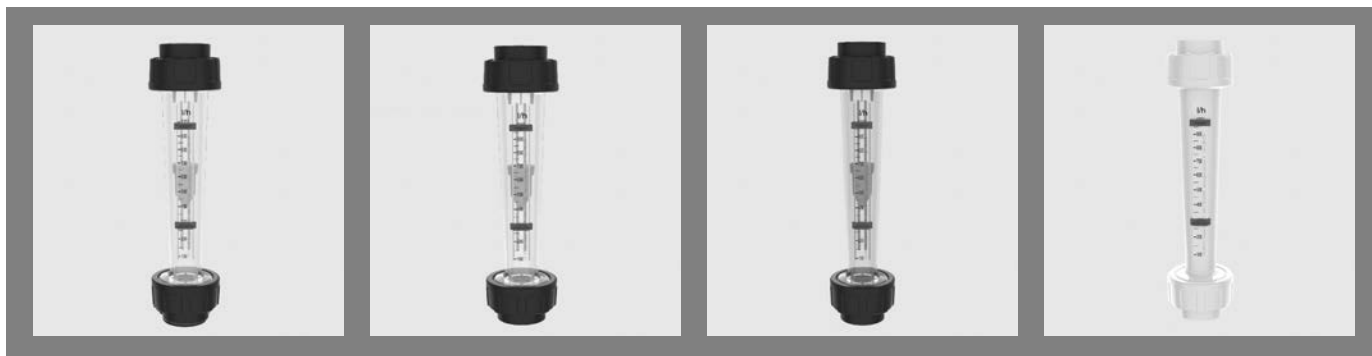
body PVC-U						
size pressure range	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
	measuring range(l/h)		25-250	40-400	100-1,000	150-1,500
Connection	sealing	ident No.				
	PVC-U socket end DIN ISO	EPDM	47512 0.25 kg	47513 0.25 kg	47514 0.25 kg	47515 0.25 kg

body PVC-U float magnet						
size pressure range	float		magnet	magnet	magnet	magnet
	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
measuring range(l/h)		25-250	40-400	100-1,000	150-1,500	
Connection	sealing	ident No.				
	PVC-U socket end DIN ISO	EPDM	47695 0.25 kg	47696 0.25 kg	47697 0.25 kg	47698 0.25 kg

body PA						
size pressure range	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
	measuring range(l/h)		25-250	40-400	100-1,000	150-1,500
Connection	sealing	ident No.				
	PVC-U socket end DIN ISO	EPDM	47528 0.25 kg	47529 0.25 kg	47530 0.25 kg	47531 0.25 kg



## Flowmeter with float, DFM 200

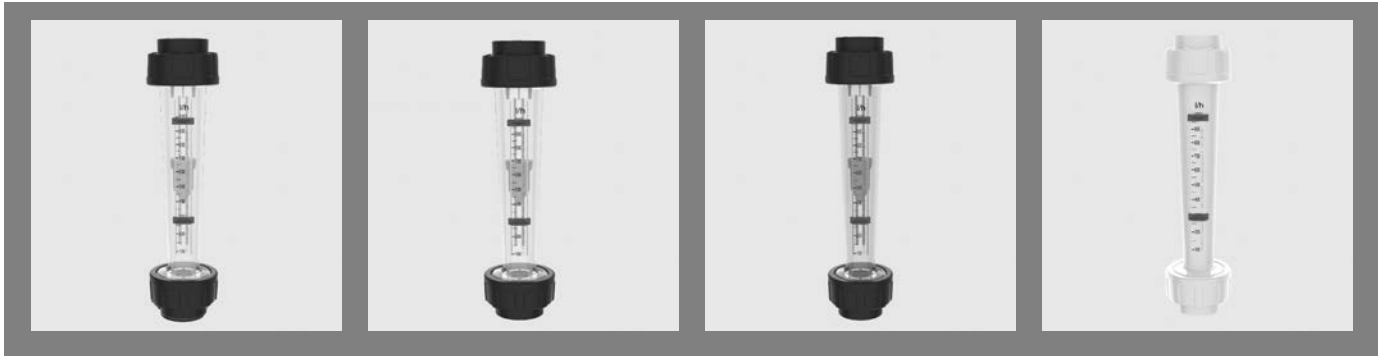


body PA		float magnet				
<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
	measuring range(l/h)		25-250	40-400	100-1,000	150-1,500
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47711 0.25 kg	47712 0.25 kg	47713 0.25 kg	47714 0.25 kg

body PSU		float magnet				
<i>size</i> <i>pressure range</i>	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
		measuring range(l/h)		25-250	40-400	100-1,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47544 0.25 kg	47545 0.25 kg	47546 0.25 kg	47547 0.25 kg

body PSU		float magnet				
<i>size</i> <i>pressure range</i>	float		magnet	magnet	magnet	magnet
	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
	measuring range(l/h)		25-250	40-400	100-1,000	150-1,500
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
PVC-U socket end DIN ISO	EPDM		47727 0.25 kg	47728 0.25 kg	47729 0.25 kg	47730 0.25 kg

## Flowmeter with float, DFM 200



### body PVDF

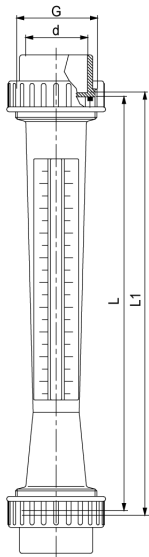
<i>size</i> <i>pressure range</i>	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
	measuring range(l/h)		25-250	40-400	100-1,000	150-1,500
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
	<i>PVDF</i> <i>socket end DIN ISO</i>	<i>FPM</i> <i>weight</i>	141984 0.35 kg	141985 0.35 kg	141986 0.35 kg	141987 0.35 kg

### body PVDF

#### float magnet

<i>size</i> <i>pressure range</i>	<i>float</i>		<i>magnet</i>	<i>magnet</i>	<i>magnet</i>	<i>magnet</i>
	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
measuring range(l/h)		25-250	40-400	100-1,000	150-1,500	
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>				
	<i>PVDF</i> <i>socket end DIN ISO</i>	<i>FPM</i> <i>weight</i>	141988 0.35 kg	141989 0.35 kg	141990 0.35 kg	141991 0.35 kg

## Flowmeter with float, DFM 200



### dimensions

d(mm)	32
DN(mm)	25
DN(inch)	1
PN(bar)	10

### dimensions(mm)

d	32
G	1 1/2
L	200
L1	206

## Flowmeter with float, DFM 335



### Measuring Range

- 60 - 50,000 l/h

#### body PVC-U

<i>size</i> <i>pressure range</i>	d(mm)	32	32	50	50	63	63	75
	DN(mm)	25	25	40	40	50	50	65
	DN(inch)	1	1	1 1/2	1 1/2	2	2	2 1/2
	G(inch)	1 1/2	1 1/2	2 1/4	2 1/4	2 3/4	2 3/4	3 1/2
	measuring range(l/h)	60-600	100-1,000	200-2,000	300-3,000	600-6,000	1,000-10,000	2,500-25,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>						
	PVC-U socket end DIN ISO	EPDM	46272 0.44 kg	46273 0.44 kg	46282 1.00 kg	46283 1.00 kg	46287 1.47 kg	46288 1.47 kg

#### body PVC-U

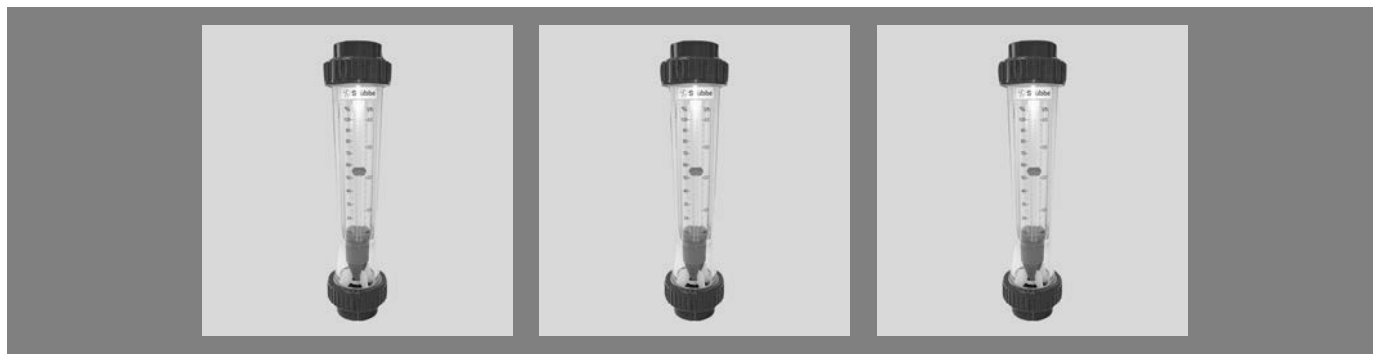
<i>size</i> <i>pressure range</i>	d(mm)							75
	DN(mm)							65
	DN(inch)							2 1/2
	G(inch)							3 1/2
	measuring range(l/h)							10,000-50,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>						
	PVC-U socket end DIN ISO	EPDM						127891 1.90 kg

#### body PVC-U

#### float magnet

<i>size</i> <i>pressure range</i>	float	magnet	magnet	magnet	magnet	magnet	magnet	magnet
	d(mm)	32	32	50	50	63	63	75
	DN(mm)	25	25	40	40	50	50	65
	DN(inch)	1	1	1 1/2	1 1/2	2	2	2 1/2
	G(inch)	1 1/2	1 1/2	2 1/4	2 1/4	2 3/4	2 3/4	3 1/2
measuring range(l/h)	60-600	100-1,000	200-2,000	300-3,000	600-6,000	1,000-10,000	2,500-25,000	
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>						
	PVC-U socket end DIN ISO	EPDM	47576 0.44 kg	47577 0.44 kg	47586 1.00 kg	47587 1.00 kg	47591 1.47 kg	47592 1.47 kg

## Flowmeter with float, DFM 335



body PVC-U		float magnet	
<i>size</i> <i>pressure range</i>	float		magnet
	d(mm)		75
	DN(mm)		65
	DN(inch)		2 1/2
	G(inch)		3 1/2
	measuring range(l/h)		10,000-50,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>	
PVC-U socket end DIN ISO	EPDM		127893 1.90 kg

body PA								
<i>size</i> <i>pressure range</i>	d(mm)	32	32	50	50	63	63	75
	DN(mm)	25	25	40	40	50	50	65
	DN(inch)	1	1	1 1/2	1 1/2	2	2	2 1/2
	G(inch)	1 1/2	1 1/2	2 1/4	2 1/4	2 3/4	2 3/4	3 1/2
		measuring range(l/h)	60-600	100-1,000	200-2,000	300-3,000	600-6,000	1,000-10,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>						
PVC-U socket end DIN ISO	EPDM	46299 0.44 kg	46300 0.44 kg	46309 1.00 kg	46310 1.00 kg	46314 1.47 kg	46315 1.47 kg	46320 1.90 kg

body PA			
<i>size</i> <i>pressure range</i>	d(mm)		75
	DN(mm)		65
	DN(inch)		2 1/2
	G(inch)		3 1/2
		measuring range(l/h)	
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>	
PVC-U socket end DIN ISO	EPDM		127894 1.90 kg

## Flowmeter with float, DFM 335

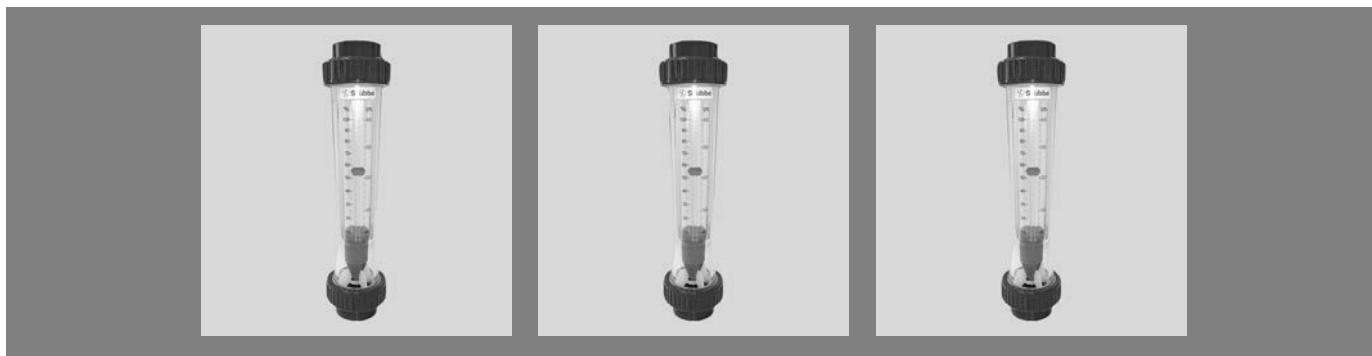


body PA		float magnet						
size	float	magnet	magnet	magnet	magnet	magnet	magnet	magnet
pressure range	d(mm)	32	32	50	50	63	63	75
	DN(mm)	25	25	40	40	50	50	65
	DN(inch)	1	1	1 1/2	1 1/2	2	2	2 1/2
	G(inch)	1 1/2	1 1/2	2 1/4	2 1/4	2 3/4	2 3/4	3 1/2
	measuring range(l/h)	60-600	100-1,000	200-2,000	300-3,000	600-6,000	1,000-10,000	2,500-25,000
Connection	sealing	ident No.						
PVC-U	EPDM	47603	47604	47613	47614	47618	47619	47624
socket end DIN ISO		0.44 kg	0.44 kg	1.00 kg	1.00 kg	1.47 kg	1.47 kg	1.90 kg

body PA		float magnet						
size	float							magnet
pressure range	d(mm)							75
	DN(mm)							65
	DN(inch)							2 1/2
	G(inch)							3 1/2
	measuring range(l/h)							10,000-50,000
Connection	sealing	ident No.						
PVC-U	EPDM							127896
socket end DIN ISO								1.90 kg

body PSU		float magnet						
size	d(mm)	32	32	50	50	63	63	75
pressure range	DN(mm)	25	25	40	40	50	50	65
	DN(inch)	1	1	1 1/2	1 1/2	2	2	2 1/2
	G(inch)	1 1/2	1 1/2	2 1/4	2 1/4	2 3/4	2 3/4	3 1/2
	measuring range(l/h)	60-600	100-1,000	200-2,000	300-3,000	600-6,000	1,000-10,000	2,500-25,000
Connection	sealing	ident No.						
PVC-U	EPDM	46326	46327	46336	46337	46341	46342	46347
socket end DIN ISO		0.44 kg	0.44 kg	1.00 kg	1.00 kg	1.47 kg	1.47 kg	1.90 kg

## Flowmeter with float, DFM 335

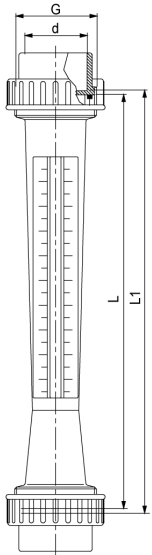


body PSU			
size pressure range	d(mm)		75
	DN(mm)		65
	DN(inch)		2 1/2
	G(inch)		3 1/2
	measuring range(l/h)		10,000-50,000
Connection	sealing	ident No.	
PVC-U socket end DIN ISO	EPDM		127897 1.90 kg

body PSU		float magnet						
size pressure range	float	magnet	magnet	magnet	magnet	magnet	magnet	magnet
	d(mm)	32	32	50	50	63	63	75
	DN(mm)	25	25	40	40	50	50	65
	DN(inch)	1	1	1 1/2	1 1/2	2	2	2 1/2
	G(inch)	1 1/2	1 1/2	2 1/4	2 1/4	2 3/4	2 3/4	3 1/2
	measuring range(l/h)	60-600	100-1,000	200-2,000	300-3,000	600-6,000	1,000-10,000	2,500-25,000
Connection	sealing	ident No.						
PVC-U socket end DIN ISO	EPDM	47630 0.44 kg	47631 0.44 kg	47640 1.00 kg	47641 1.00 kg	47645 1.47 kg	47646 1.47 kg	47651 1.90 kg

body PSU		float magnet	
size pressure range	float		magnet
	d(mm)		75
	DN(mm)		65
	DN(inch)		2 1/2
	G(inch)		3 1/2
	measuring range(l/h)		10,000-50,000
Connection	sealing	ident No.	
PVC-U socket end DIN ISO	EPDM		127899 1.90 kg

## Flowmeter with float, DFM 335



### dimensions

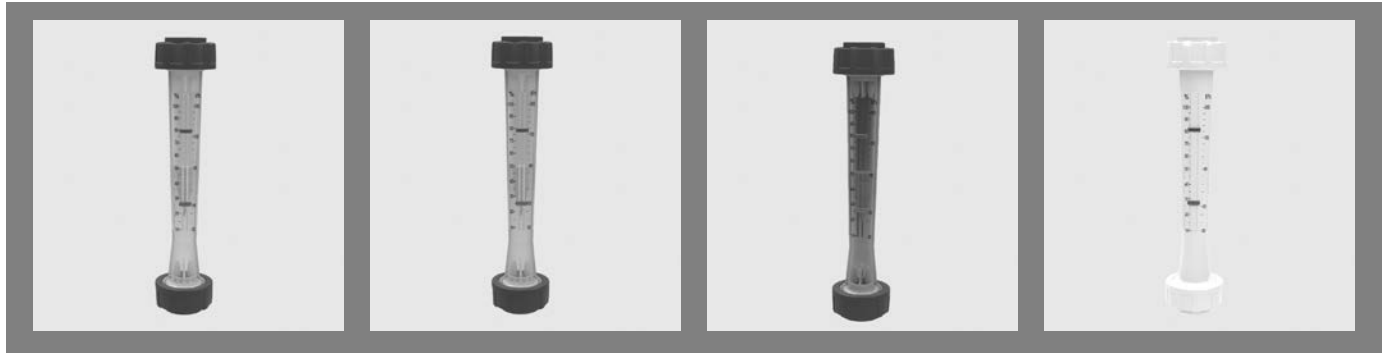
d(mm)	32	50	63	75
DN(mm)	25	40	50	65
DN(inch)	1	1 1/2	2	2 1/2
PN(bar)	10	10	10	10

### dimensions(mm)

d	32	50	63	75
G	1 1/2	2 1/4	2 3/4	3 1/2
L	335	335	335	335
L1	341	341	341	341



## Flowmeter with float, DFM 350



### Measuring Range

- 15 - 50,000 l/h

#### body PVC-U

<i>size</i>	d(mm)	32	32	40	40	50	50	63	
	<i>pressure range</i>	DN(mm)	25	25	32	32	40	40	50
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2	
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4	
	measuring range(l/h)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000	
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>							
PVC-U socket end DIN ISO	EPDM	46276 0.48 kg	46277 0.48 kg	46279 0.71 kg	46280 0.71 kg	46284 1.05 kg	46285 1.05 kg	46289 1.53 kg	

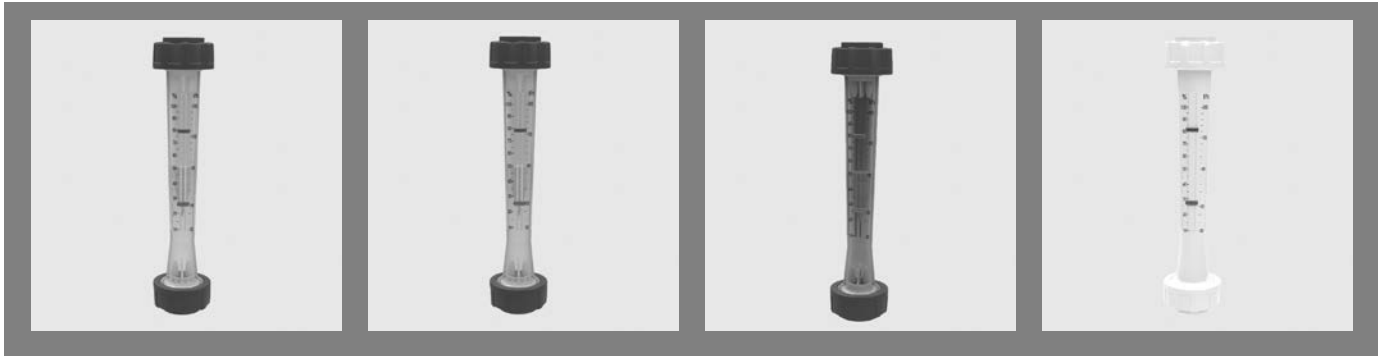
#### body PVC-U

<i>size</i>	d(mm)		63	63	75	75	75
	<i>pressure range</i>	DN(mm)	50	50	65	65	65
	DN(inch)		2	2	2 1/2	2 1/2	2 1/2
	G(inch)		2 3/4	2 3/4	3 1/2	3 1/2	3 1/2
	measuring range(l/h)		600-6,000	1,000-10,000	1,500-15,000	2,500-25,000	10,000-50,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>					
PVC-U socket end DIN ISO	EPDM		46290 1.53 kg	46291 1.53 kg	46295 2.10 kg	46296 2.10 kg	127865 2.10 kg

#### body PVC-U float magnet

<i>size</i>	float	magnet	magnet	magnet	magnet	magnet	magnet	magnet	
	<i>pressure range</i>	d(mm)	32	32	40	40	50	50	63
	DN(mm)	25	25	32	32	40	40	50	
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2	
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4	
measuring range(l/h)		60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000	
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>							
PVC-U socket end DIN ISO	EPDM	47580 0.48 kg	47581 0.48 kg	47583 0.71 kg	47584 0.71 kg	47588 1.05 kg	47589 1.05 kg	47593 1.53 kg	

## Flowmeter with float, DFM 350

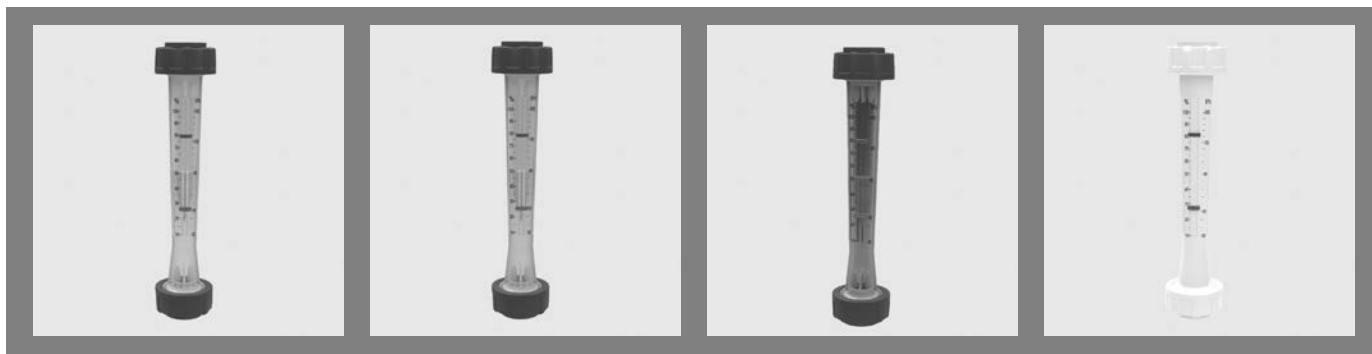


body PVC-U		float magnet						
size	float			magnet	magnet	magnet	magnet	magnet
pressure range	d(mm)			63	63	75	75	75
	DN(mm)			50	50	65	65	65
	DN(inch)			2	2	2 1/2	2 1/2	2 1/2
	G(inch)			2 3/4	2 3/4	3 1/2	3 1/2	3 1/2
	measuring range(l/h)			600-6,000	1,000-10,000	1,500-15,000	2,500-25,000	10,000-50,000
Connection	sealing	ident No.						
PVC-U	EPDM			47594	47595	47599	47600	127867
socket end DIN ISO				1.53 kg	1.53 kg	2.10 kg	2.10 kg	2.10 kg

body PA								
size	d(mm)	32	32	40	40	50	50	63
pressure range	DN(mm)	25	25	32	32	40	40	50
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4
	measuring range(l/h)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000
Connection	sealing	ident No.						
PVC-U	EPDM	46303	46304	46306	46307	46311	46312	46316
socket end DIN ISO		0.48 kg	0.48 kg	0.71 kg	0.71 kg	1.05 kg	1.05 kg	1.53 kg

body PA								
size	d(mm)			63	63	75	75	75
pressure range	DN(mm)			50	50	65	65	65
	DN(inch)			2	2	2 1/2	2 1/2	2 1/2
	G(inch)			2 3/4	2 3/4	3 1/2	3 1/2	3 1/2
	measuring range(l/h)			600-6,000	1,000-10,000	1,500-15,000	2,500-25,000	10,000-50,000
Connection	sealing	ident No.						
PVC-U	EPDM			46317	46318	46322	46323	127868
socket end DIN ISO				1.53 kg	1.53 kg	2.10 kg	2.10 kg	2.10 kg

## Flowmeter with float, DFM 350

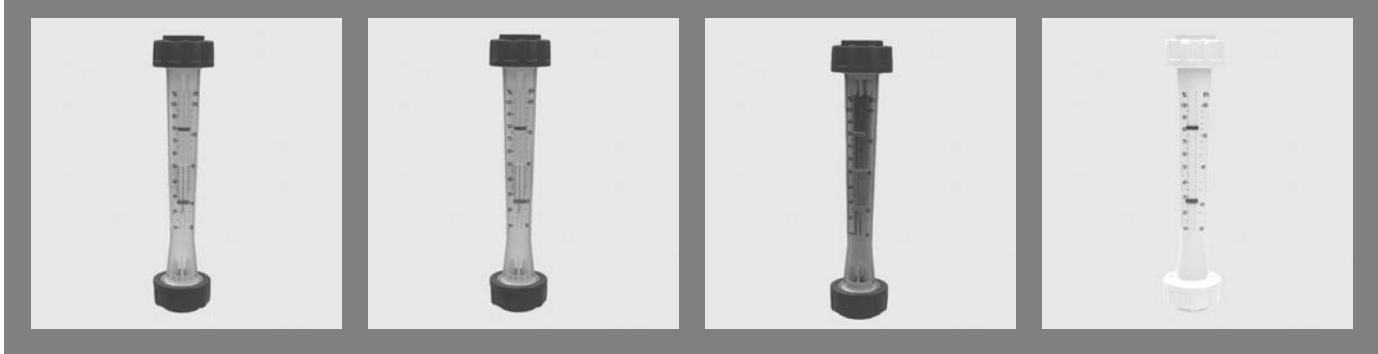


<b>body PA</b>		<b>float magnet</b>						
<i>size</i>	float	magnet	magnet	magnet	magnet	magnet	magnet	magnet
<i>pressure range</i>	d(mm)	32	32	40	40	50	50	63
	DN(mm)	25	25	32	32	40	40	50
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4
	measuring range(l/h)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>						
PVC-U socket end DIN ISO	EPDM	47607 0.48 kg	47608 0.48 kg	47610 0.71 kg	47611 0.71 kg	47615 1.05 kg	47616 1.05 kg	47620 1.53 kg

<b>body PA</b>		<b>float magnet</b>					
<i>size</i>	float		magnet	magnet	magnet	magnet	magnet
<i>pressure range</i>	d(mm)		63	63	75	75	75
	DN(mm)		50	50	65	65	65
	DN(inch)		2	2	2 1/2	2 1/2	2 1/2
	G(inch)		2 3/4	2 3/4	3 1/2	3 1/2	3 1/2
	measuring range(l/h)		600-6,000	1,000-10,000	1,500-15,000	2,500-25,000	10,000-50,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>					
PVC-U socket end DIN ISO	EPDM		47621 1.53 kg	47622 1.53 kg	47626 2.10 kg	47627 2.10 kg	127870 2.10 kg

<b>body PSU</b>		<b>float magnet</b>						
<i>size</i>	d(mm)	32	32	40	40	50	50	63
<i>pressure range</i>	DN(mm)	25	25	32	32	40	40	50
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4
	measuring range(l/h)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>						
PVC-U socket end DIN ISO	EPDM	46330 0.48 kg	46331 0.48 kg	46333 0.71 kg	46334 0.71 kg	46338 1.05 kg	46339 1.05 kg	46343 1.53 kg

## Flowmeter with float, DFM 350



### body PSU

size pressure range	d(mm)		63	63	75	75	75
	DN(mm)		50	50	65	65	65
	DN(inch)		2	2	2 1/2	2 1/2	2 1/2
	G(inch)		2 3/4	2 3/4	3 1/2	3 1/2	3 1/2
	measuring range(l/h)		600-6,000	1,000-10,000	1,500-15,000	2,500-25,000	10,000-50,000
Connection	sealing	ident No.					
PVC-U socket end DIN ISO	EPDM		46344 1.53 kg	46345 1.53 kg	46349 2.10 kg	46350 2.10 kg	127871 2.10 kg

### body PSU

#### float magnet

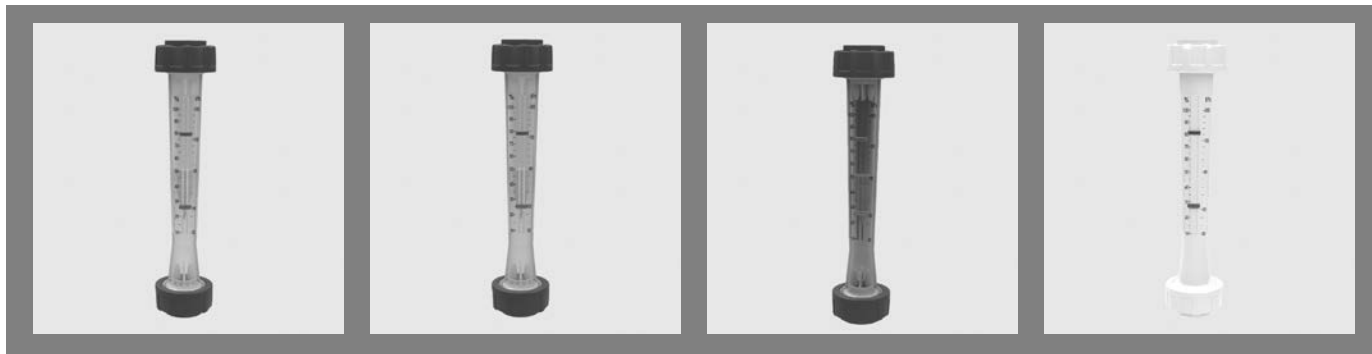
size pressure range	float	magnet	magnet	magnet	magnet	magnet	magnet	magnet
	d(mm)	32	32	40	40	50	50	63
	DN(mm)	25	25	32	32	40	40	50
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4
measuring range(l/h)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000	
Connection	sealing	ident No.						
PVC-U socket end DIN ISO	EPDM	47634 0.48 kg	47635 0.48 kg	47637 0.71 kg	47638 0.71 kg	47642 1.05 kg	47643 1.05 kg	47647 1.53 kg

### body PSU

#### float magnet

size pressure range	float		magnet	magnet	magnet	magnet	magnet
	d(mm)		63	63	75	75	75
	DN(mm)		50	50	65	65	65
	DN(inch)		2	2	2 1/2	2 1/2	2 1/2
	G(inch)		2 3/4	2 3/4	3 1/2	3 1/2	3 1/2
measuring range(l/h)		600-6,000	1,000-10,000	1,500-15,000	2,500-25,000	10,000-50,000	
Connection	sealing	ident No.					
PVC-U socket end DIN ISO	EPDM		47648 1.53 kg	47649 1.53 kg	47653 2.10 kg	47654 2.10 kg	127873 2.10 kg

## Flowmeter with float, DFM 350

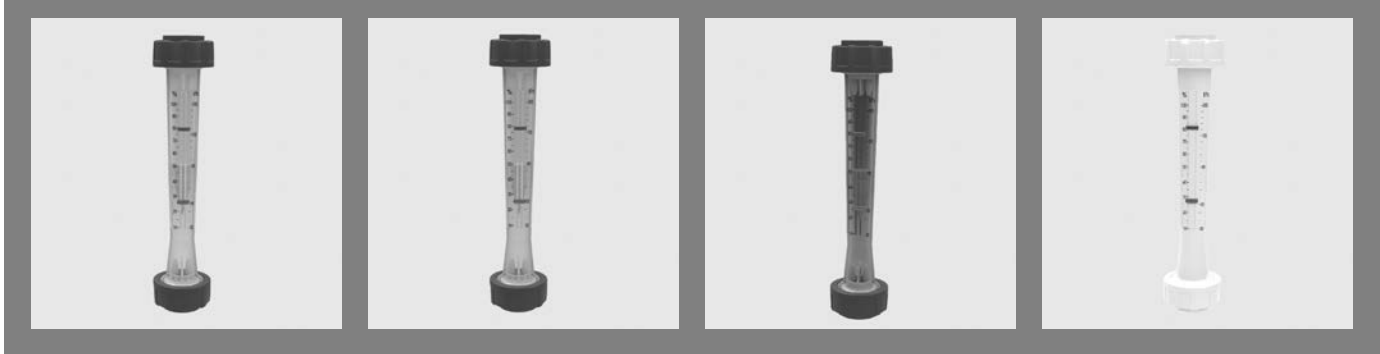


body PVDF								
size	d(mm)	32	32	40	40	50	50	63
	pressure range	25	25	32	32	40	40	50
pressure range	DN(mm)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2
	DN(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4
	G(inch)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000
measuring range(l/h)	sealing	ident No.						
	PVDF socket end DIN ISO	FPM	141994	141995	141996	141997	141998	141999

body PVDF								
size	d(mm)			63	63	75	75	75
	pressure range			50	50	65	65	65
pressure range	DN(mm)			2	2	2 1/2	2 1/2	2 1/2
	DN(inch)			2 3/4	2 3/4	3 1/2	3 1/2	3 1/2
	G(inch)			600-6,000	1,000-10,000	1,500-15,000	2,500-25,000	10,000-50,000
measuring range(l/h)	sealing	ident No.						
	PVDF socket end DIN ISO	FPM			142001	142002	142003	142004

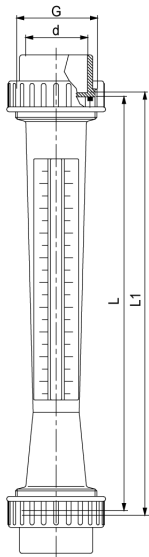
body PVDF float magnet								
size	float	magnet	magnet	magnet	magnet	magnet	magnet	magnet
	pressure range	d(mm)	32	32	40	40	50	50
pressure range	DN(mm)	25	25	32	32	40	40	50
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4
measuring range(l/h)	sealing	ident No.						
	PVDF socket end DIN ISO	FPM	142008	142009	142010	142011	142012	142013

## Flowmeter with float, DFM 350



body PVDF		float magnet					
<i>size</i>	float		magnet	magnet	magnet	magnet	magnet
<i>pressure range</i>	d(mm)		63	63	75	75	75
	DN(mm)		50	50	65	65	65
	DN(inch)		2	2	2 1/2	2 1/2	2 1/2
	G(inch)		2 3/4	2 3/4	3 1/2	3 1/2	3 1/2
	measuring range(l/h)		600-6,000	1,000-10,000	1,500-15,000	2,500-25,000	10,000-50,000
<i>Connection</i>	<i>sealing</i>	<i>ident No.</i>					
PVDF socket end DIN ISO	FPM		142015	142016	142017	142018	142019

## Flowmeter with float, DFM 350



### dimensions

d(mm)	32	40	50	63	75
DN(mm)	25	32	40	50	65
DN(inch)	1	1 1/4	1 1/2	2	2 1/2
PN(bar)	10	10	10	10	10

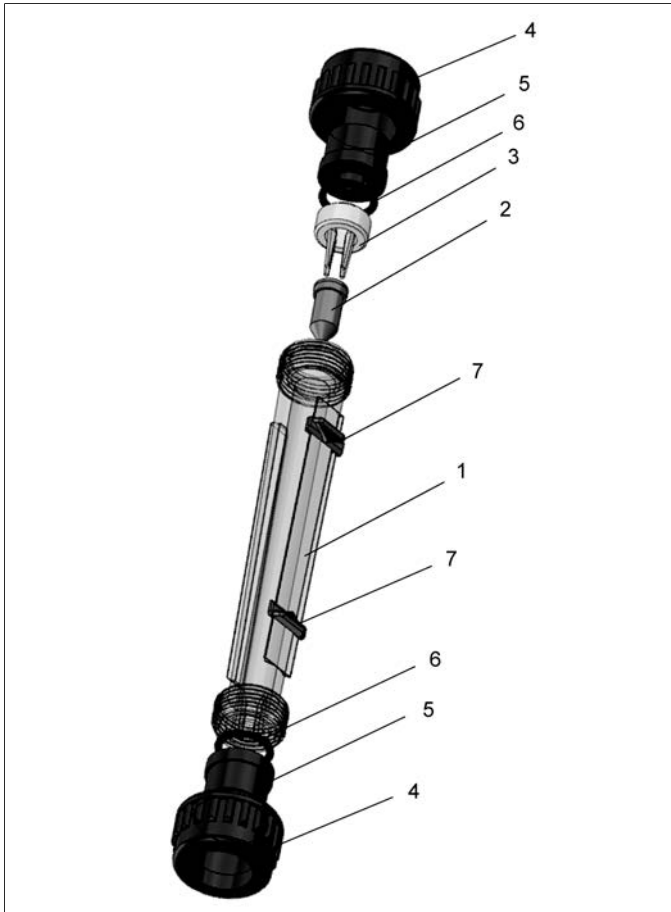
### dimensions(mm)

d	32	40	50	63	75
G	1 1/2	2	2 1/4	2 3/4	3 1/2
L	350	350	350	350	350
L1	356	356	356	356	356

## Flowmeter with float

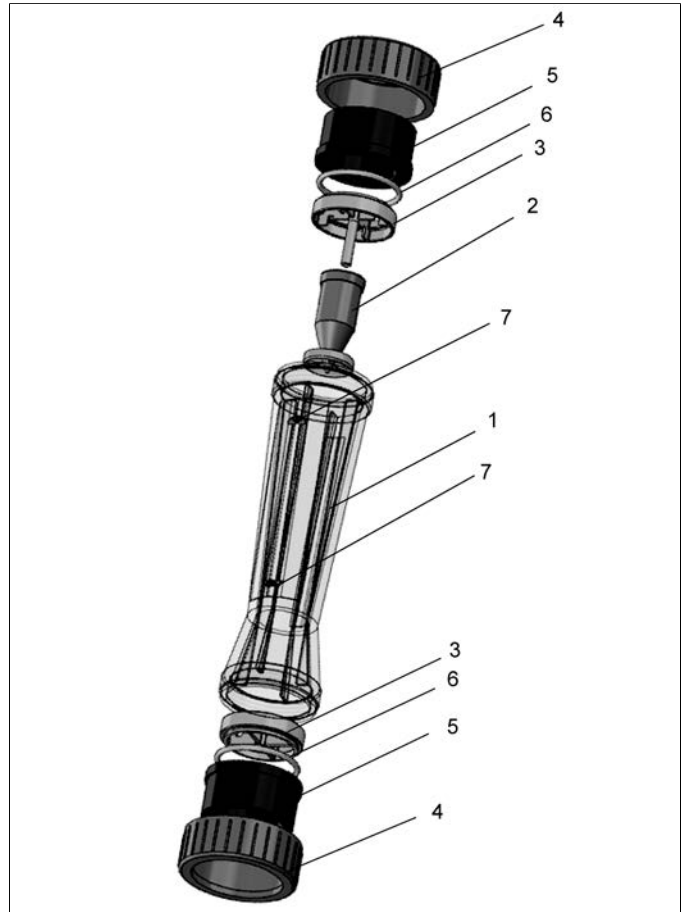
### Item Overview

#### DFM 165-200



position	quantity	designation
1	1	measuring tube
2	1	float
3	1	float trap
4	2	union nut
5	2	union end
6	2	O-ring
7	2	setpoint indicator

#### DFM 335-350



two different float traps for measuring range:

15 - 150 l/h; 30 - 300 l/h

1,000 - 10,000 l/h; 10,000 - 50,000 l/h

position	quantity	designation
1	1	measuring tube
2	1	float
3	1	float trap
4	2	union nut
5	2	union end
6	2	O-ring
7	2	setpoint indicator