

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 (H₂O, 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 H₂O
- 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

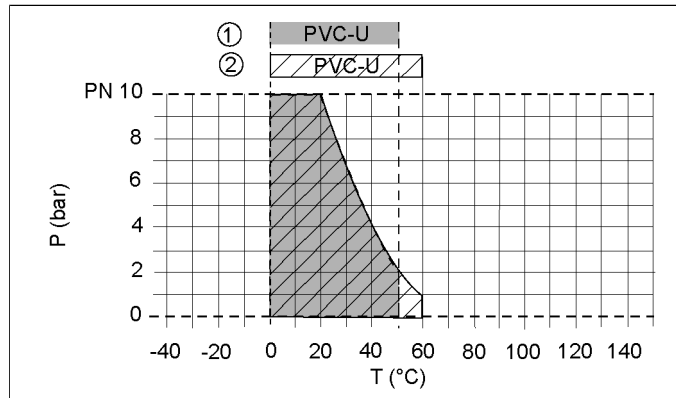
Accessories

- 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

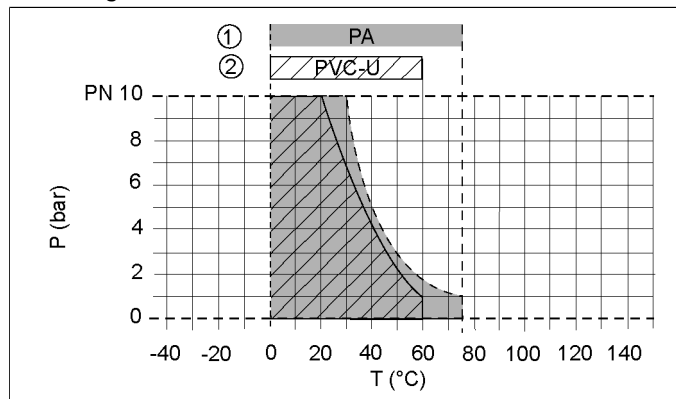
T = operating temperature

1 = diagram PVC - measuring tube

2 = diagram PVC-U - connection

Pressure/temperature diagram

Measuring tube: PA



P = operating pressure

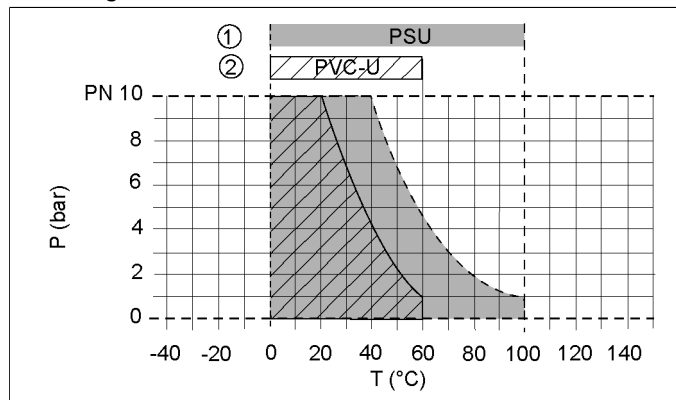
T = operating temperature

1 = diagram PA - measuring tube

2 = diagram PVC-U - connection

Pressure/temperature diagram

Measuring tube: PSU



P = operating pressure

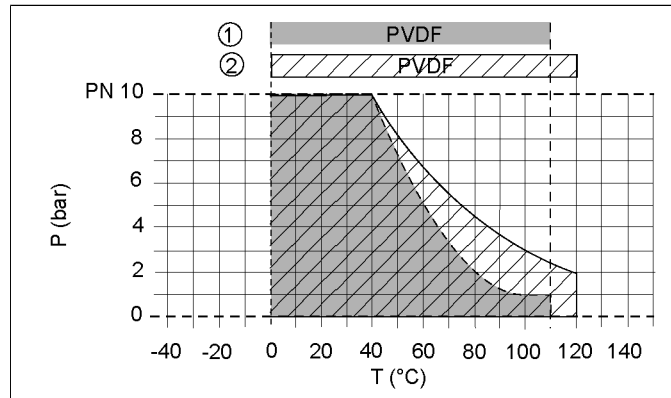
T = operating temperature

1 = diagram PSU - measuring tube

2 = diagram PVC-U - connection

Pressure/temperature diagram

Measuring tube: PVDF



P = operating pressure

T = operating temperature

1 = diagram PVDF - measuring tube

2 = diagram PVDF - connection

Measuring range DFM 165 - DFM 350

Q (l/h) H ₂ 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 ³ /s	m ³ /h	l/min	GPM(GB)	GPM(US)	ft ³ /s
1 m ³ /s	1	3600	60000	13198	15850	35,3
1 m ³ /h	2,788·10 ⁻⁴	1	16,667	3,663	4,405	9,803·10 ⁻³
1 l/min	1,667·10 ⁻⁵	6·10 ⁻²	1	0,219	0,264	0,163
1 GPM (GB)	7,577·10 ⁻⁵	0,273	4,55	1	0,833	2,676·10 ⁻³
1 GPM (US)	6,309·10 ⁻⁵	0,227	3,783	1,203	1	2,225·10 ⁻³
1 ft ³ /s	2,833·10 ⁻²	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

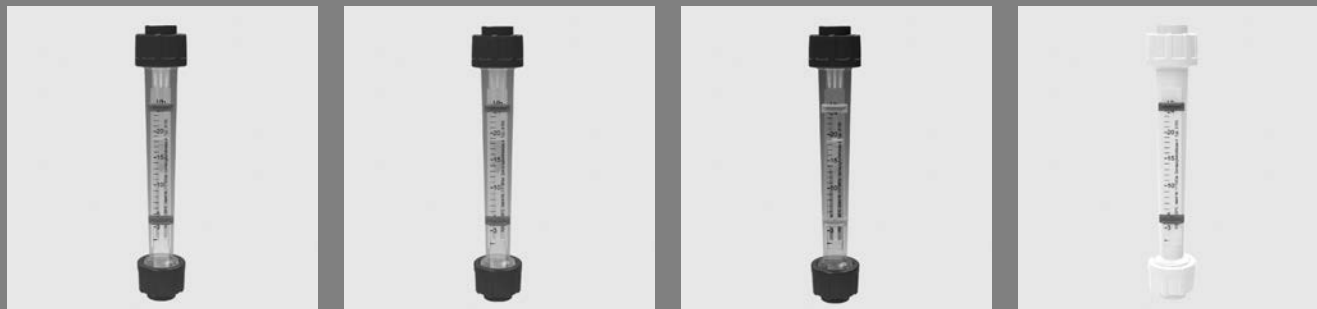
Safe operation of the valve can only be ensured if it is properly installed, operated, serviced or repaired by qualified personnel according to its intended use while observing the accident prevention regulations, safety regulations, relevant standards, directives/technical regulations or codes of practice 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

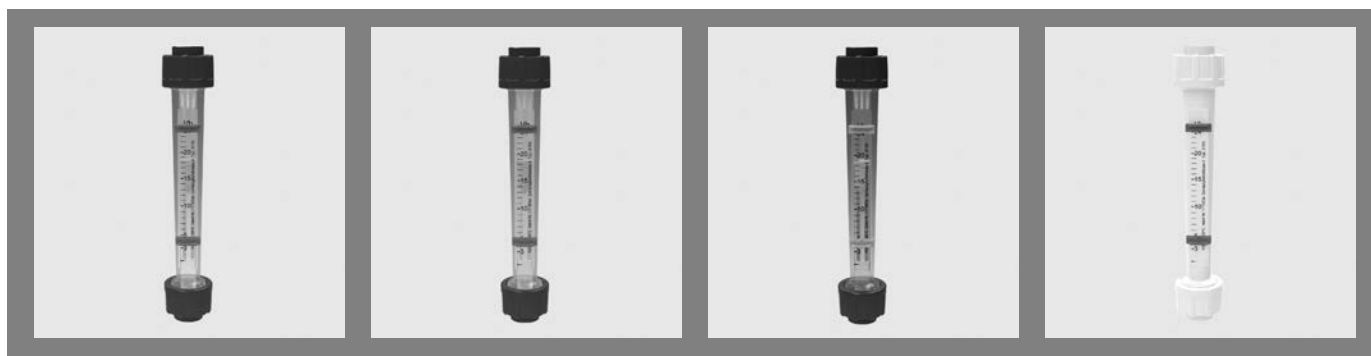
- 3 - 250 l/h

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.				
PVC-U socket end DIN ISO	EPDM		47500 0.08 kg	47501 0.08 kg	47502 0.08 kg	47503 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.				
PVC-U socket end DIN ISO	EPDM		47683 0.08 kg	47684 0.08 kg	47685 0.08 kg	47686 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.				
PVC-U socket end DIN ISO	EPDM		47516 0.08 kg	47517 0.08 kg	47518 0.08 kg	47519 0.08 kg

Flowmeter with float, DFM 165

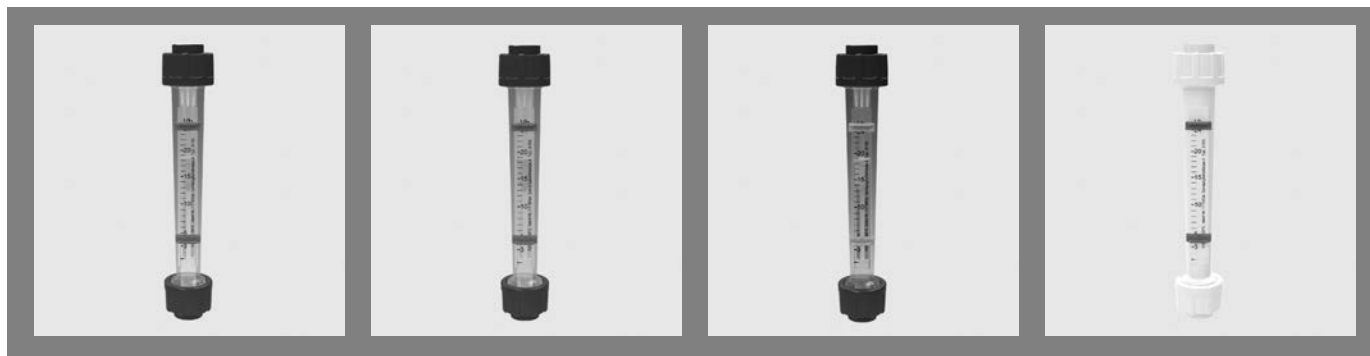


body PA		float magnet				
size pressure range	float		magnet	magnet	magnet	magnet
	d(mm)		16	16	16	16
	DN(mm)		10	10	10	10
	DN(inch)		3/8	3/8	3/8	3/8
	G(inch)		3/4	3/4	3/4	3/4
	measuring range(l/h)		3-24	5-60	10-100	25-250
Connection	sealing	ident No.				
PVC-U socket end DIN ISO	EPDM		47699 0.08 kg	47700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

body PSU		float magnet				
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.				
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				
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.				
PVC-U socket end DIN ISO	EPDM		47715 0.08 kg	47716 0.08 kg	47717 0.08 kg	47718 0.08 kg

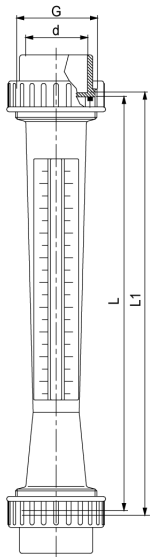
Flowmeter with float, DFM 165



body PVDF						
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.				
PVDF socket end DIN ISO	FPM		141960 0.11 kg	141961 0.11 kg	141962 0.11 kg	141963 0.11 kg

body PVDF 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.				
PVDF socket end DIN ISO	FPM		141964 0.11 kg	141965 0.11 kg	141966 0.11 kg	141967 0.11 kg

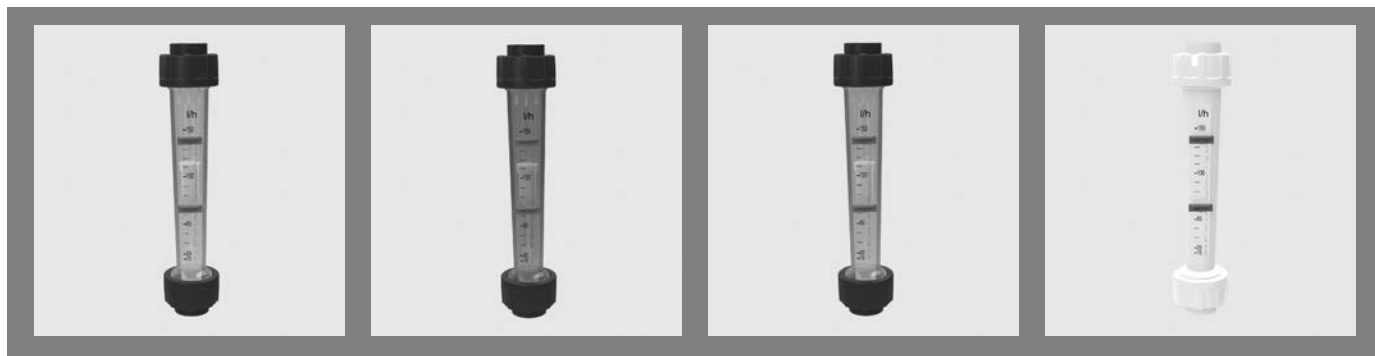
Flowmeter with float, DFM 165



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

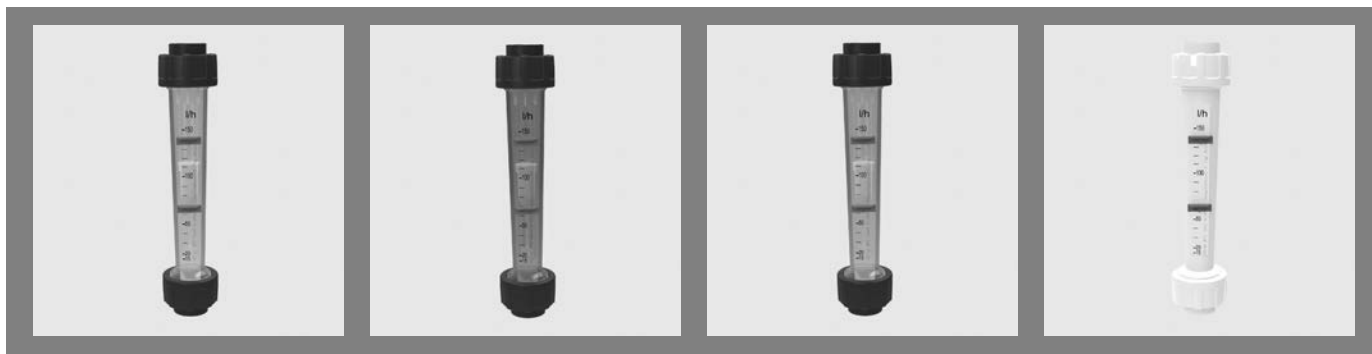
float magnet

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

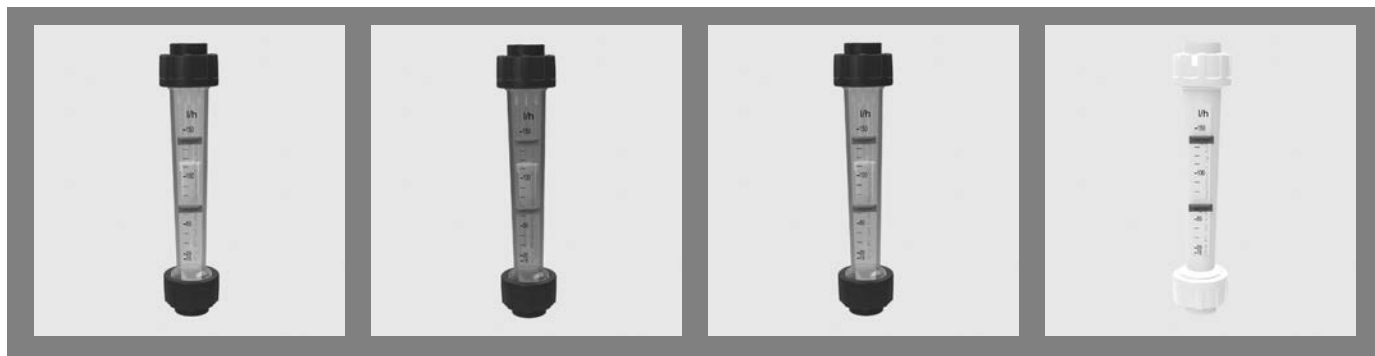


body PA		float magnet				
size pressure range	float		magnet	magnet	magnet	magnet
	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
	measuring range(l/h)		5-50	15-150	25-250	40-400
Connection	sealing	ident No.				
PVC-U socket end DIN ISO	EPDM		47703 0.10 kg	47704 0.10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

body PSU		float magnet				
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		47536 0.10 kg	47537 0.10 kg	47538 0.10 kg	47539 0.10 kg

body PSU		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		47719 0.10 kg	47720 0.10 kg	47721 0.10 kg	47722 0.10 kg

Flowmeter with float, DFM 170



body PVDF

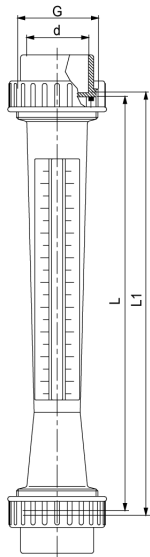
size pressure range	d(mm)		20	20	20	20
	DN(mm)		15	15	15	15
	DN(inch)		1/2	1/2	1/2	1/2
	G(inch)		1	1	1	1
	measuring range(l/h)		5-50	15-150	25-250	40-400
Connection	sealing	ident No.				
PVDF socket end DIN ISO	FPM		141968	141969	141970	141971
	weight		0.14 kg	0.14 kg	0.14 kg	0.14 kg

body PVDF

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.				
PVDF socket end DIN ISO	FPM		141972	141973	141974	141975
	weight		0.14 kg	0.14 kg	0.14 kg	0.14 kg

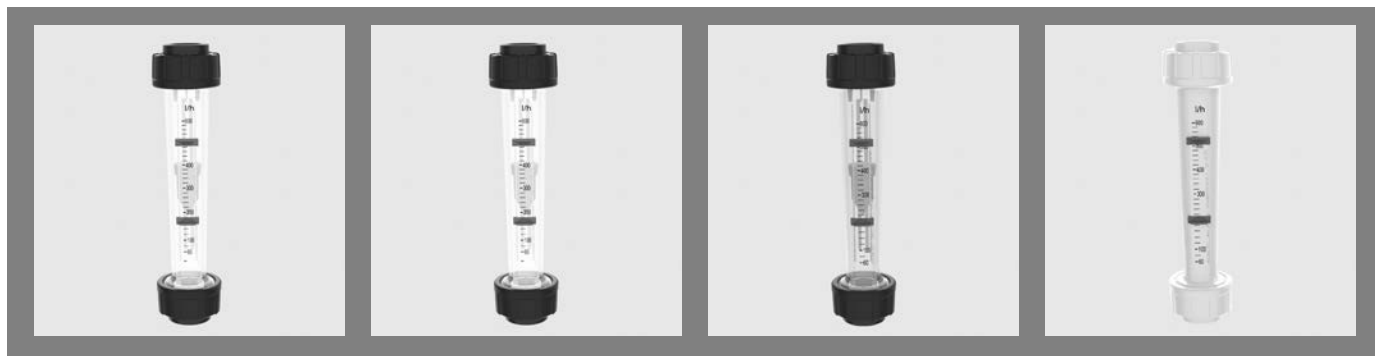
Flowmeter with float, DFM 170



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

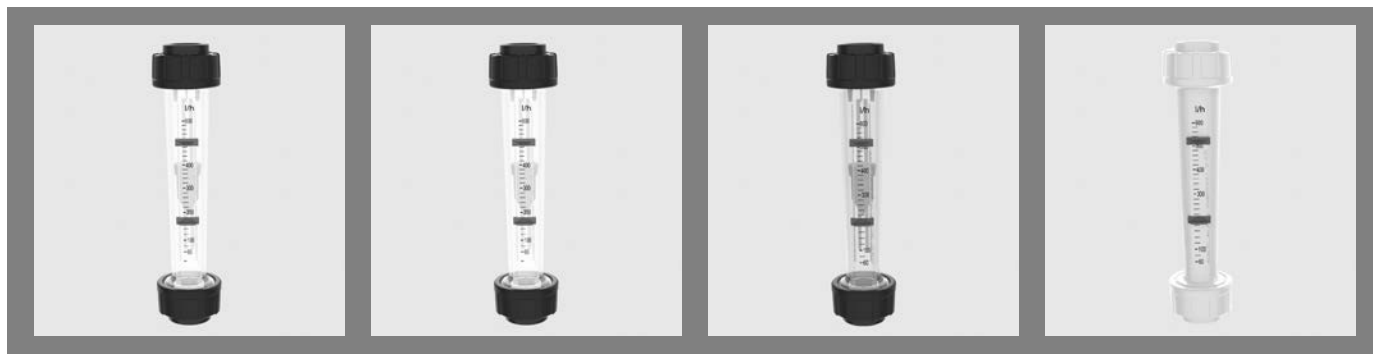
- 15 - 1,000 l/h

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

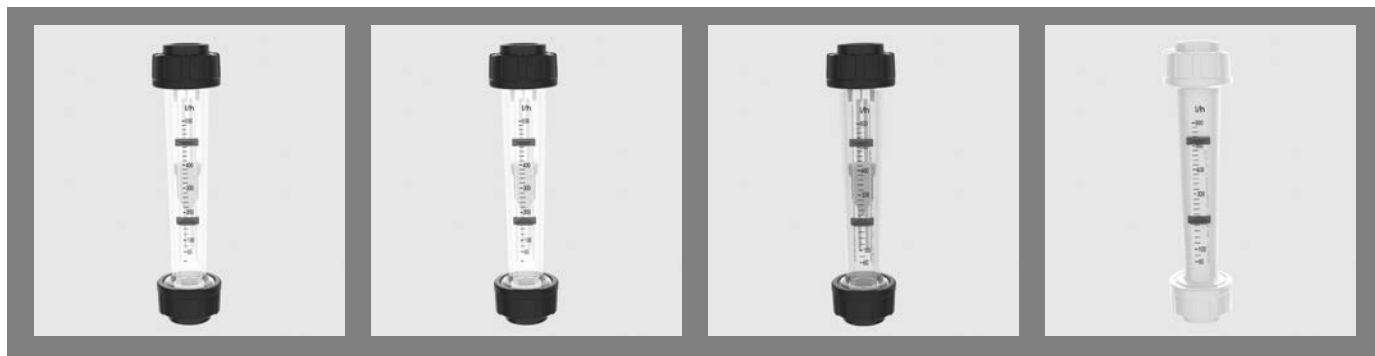


body PA		float magnet				
size pressure range	float		magnet	magnet	magnet	magnet
	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
	measuring range(l/h)		15-150	40-400	60-600	100-1,000
Connection	sealing	ident No.				
PVC-U socket end DIN ISO	EPDM	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

body PSU		float magnet				
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		47540 0.13 kg	47541 0.13 kg	47542 0.13 kg	47543 0.13 kg

body PSU		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		47723 0.13 kg	47724 0.13 kg	47725 0.13 kg	47726 0.13 kg

Flowmeter with float, DFM 185



body PVDF

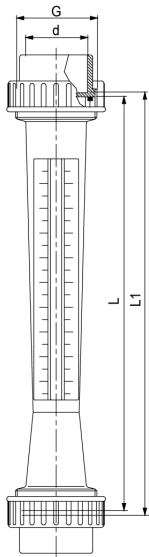
size pressure range	d(mm)		25	25	25	25
	DN(mm)		20	20	20	20
	DN(inch)		3/4	3/4	3/4	3/4
	G(inch)		1 1/4	1 1/4	1 1/4	1 1/4
	measuring range(l/h)		15-150	40-400	60-600	100-1,000
Connection	sealing	ident No.				
PVDF socket end DIN ISO	FPM		141976	141977	141978	141979
	weight		0.18 kg	0.18 kg	0.18 kg	0.18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

body PVDF

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.				
PVDF socket end DIN ISO	FPM		141980	141981	141982	141983
	weight		0.18 kg	0.18 kg	0.18 kg	0.18 kg

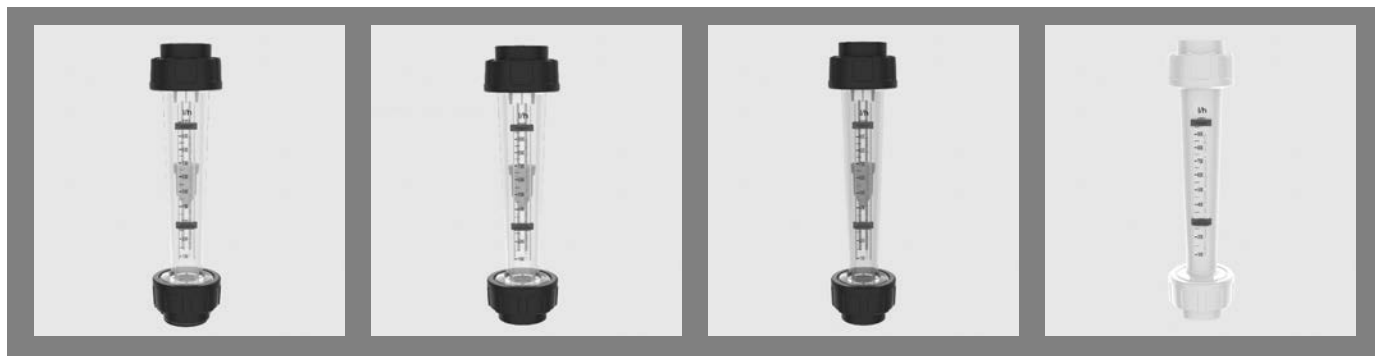
Flowmeter with float, DFM 185



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

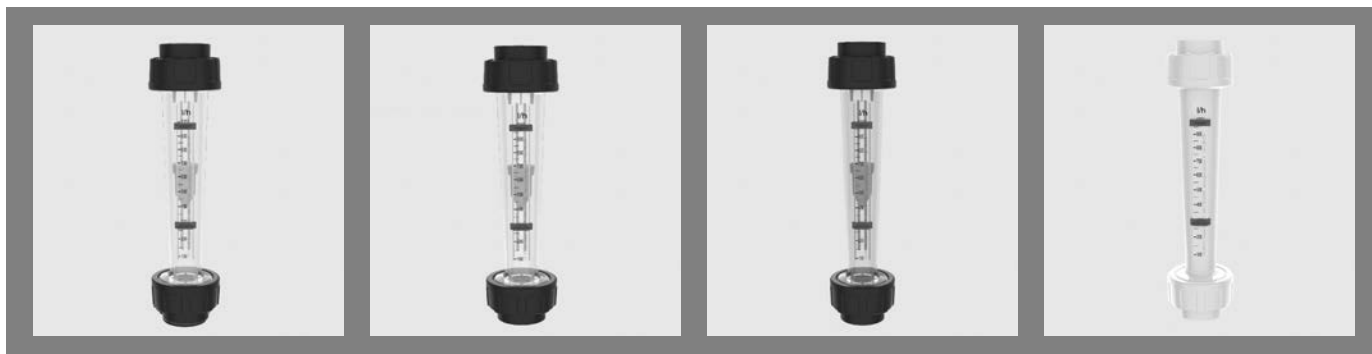
float magnet

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

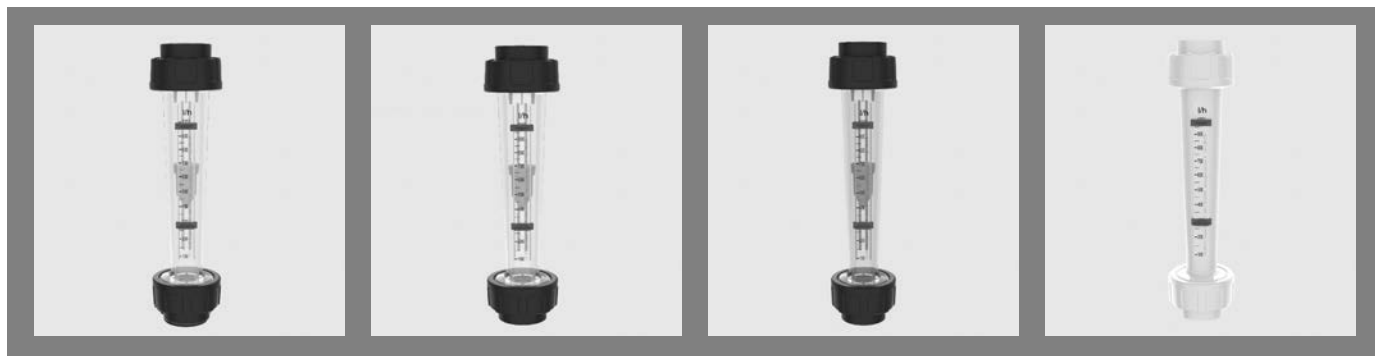


body PA		float magnet				
size pressure range	float		magnet	magnet	magnet	magnet
	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
	measuring range(l/h)		25-250	40-400	100-1,000	150-1,500
Connection	sealing	ident No.				
PVC-U socket end DIN ISO	EPDM		47711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

body PSU		float magnet				
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		47544 0.25 kg	47545 0.25 kg	47546 0.25 kg	47547 0.25 kg

body PSU		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		47727 0.25 kg	47728 0.25 kg	47729 0.25 kg	47730 0.25 kg

Flowmeter with float, DFM 200



body PVDF

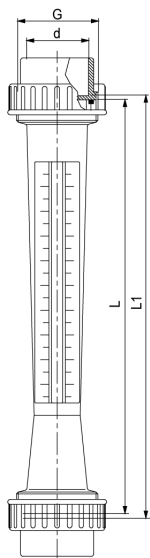
size pressure range	d(mm)		32	32	32	32
	DN(mm)		25	25	25	25
	DN(inch)		1	1	1	1
	G(inch)		1 1/2	1 1/2	1 1/2	1 1/2
	measuring range(l/h)		25-250	40-400	100-1,000	150-1,500
Connection	sealing	ident No.				
PVDF socket end DIN ISO	FPM		141984	141985	141986	141987
	weight		0.35 kg	0.35 kg	0.35 kg	0.35 kg

body PVDF

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.				
PVDF socket end DIN ISO	FPM		141988	141989	141990	141991
	weight		0.35 kg	0.35 kg	0.35 kg	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								
size 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 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	46293 1.90 kg

body PVC-U								
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							127891 1.90 kg

body PVC-U 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	47576 0.44 kg	47577 0.44 kg	47586 1.00 kg	47587 1.00 kg	47591 1.47 kg	47592 1.47 kg	47597 1.90 kg

Flowmeter with float, DFM 335



body PVC-U		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		127893 1.90 kg

body PA								
size 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 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			
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		127894 1.90 kg

Flowmeter with float, DFM 335



body PA		float magnet						
size pressure range	float	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	47603 0.44 kg	47604 0.44 kg	47613 1.00 kg	47614 1.00 kg	47618 1.47 kg	47619 1.47 kg	47624 1.90 kg

body PA		float magnet						
size pressure range	float							
	d(mm)							magnet 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							127896 1.90 kg

body PSU								
size 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 socket end DIN ISO	EPDM	46326 0.44 kg	46327 0.44 kg	46336 1.00 kg	46337 1.00 kg	46341 1.47 kg	46342 1.47 kg	46347 1.90 kg

Flowmeter with float, DFM 335

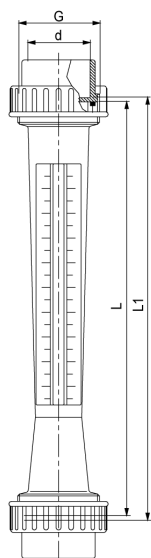


body PSU			
size pressure range	d(mm)		75
	DN(mm)		65
	DN(inch)		2 1/2
	G(inch)		3 1/2
	measuring range(l/h)		10,000-50,000
Connection	sealing	ident No.	
PVC-U socket end DIN ISO	EPDM		127897 1.90 kg

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



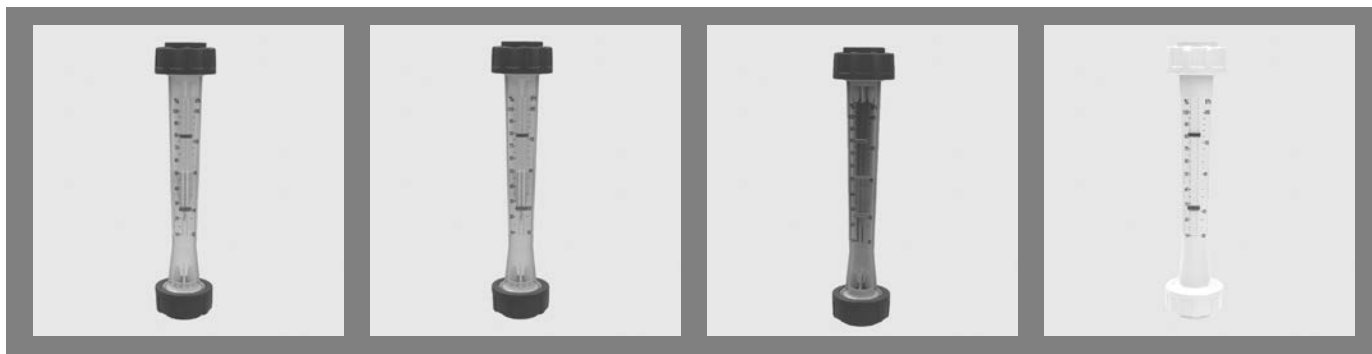
dimensions

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

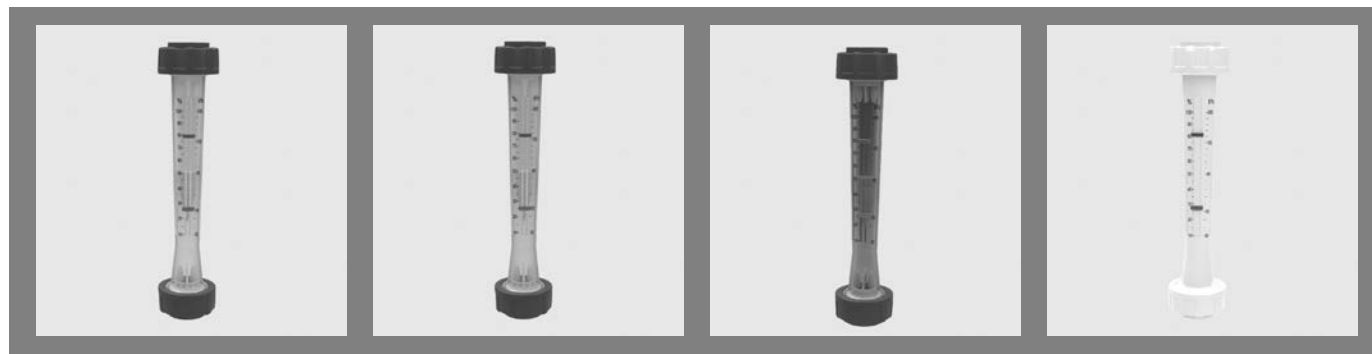
- 15 - 50,000 l/h

body PVC-U								
size pressure range	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	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								
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		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								
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	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

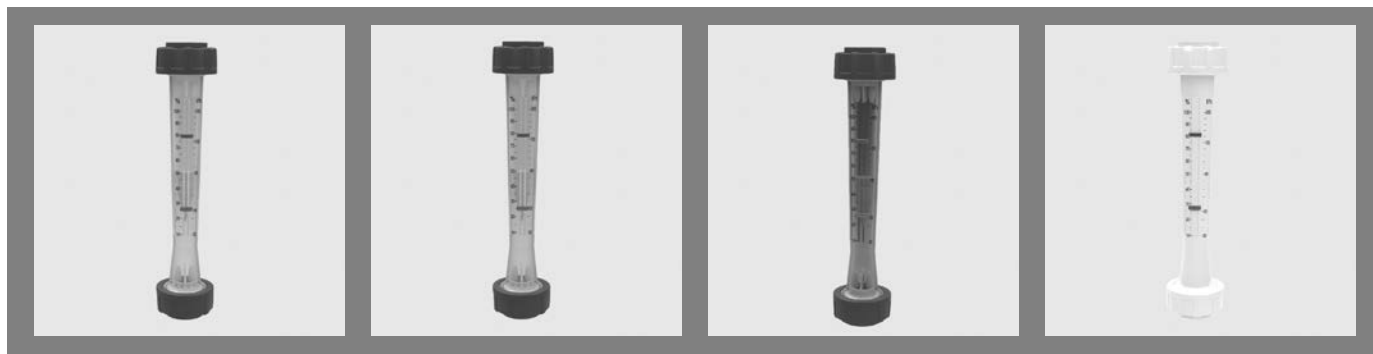


body PVC-U		float magnet					
size pressure range	float			magnet	magnet	magnet	magnet
	d(mm)			63	63	75	75
	DN(mm)			50	50	65	65
	DN(inch)			2	2	2 1/2	2 1/2
	G(inch)			2 3/4	2 3/4	3 1/2	3 1/2
	measuring range(l/h)			600-6,000	1,000-10,000	1,500-15,000	2,500-25,000
Connection	sealing	ident No.					
PVC-U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

body PA								
size pressure range	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	46303 0.48 kg	46304 0.48 kg	46306 0.71 kg	46307 0.71 kg	46311 1.05 kg	46312 1.05 kg	46316 1.53 kg

body PA								
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			46317 1.53 kg	46318 1.53 kg	46322 2.10 kg	46323 2.10 kg	127868 2.10 kg

Flowmeter with float, DFM 350

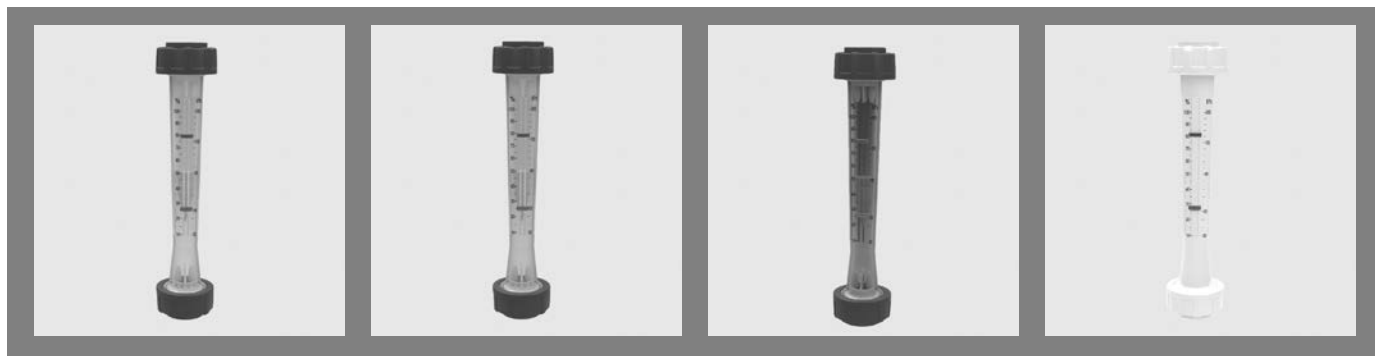


body PA		float magnet						
size pressure range	float	magnet						
	d(mm)	32	32	40	40	50	50	63
	DN(mm)	25	25	32	32	40	40	50
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4
	measuring range(l/h)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000
Connection	sealing	ident No.						
PVC-U socket end DIN ISO	EPDM	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

body PA		float magnet						
size pressure range	float	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			47621 1.53 kg	47622 1.53 kg	47626 2.10 kg	47627 2.10 kg	127870 2.10 kg

body PSU								
size pressure range	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	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

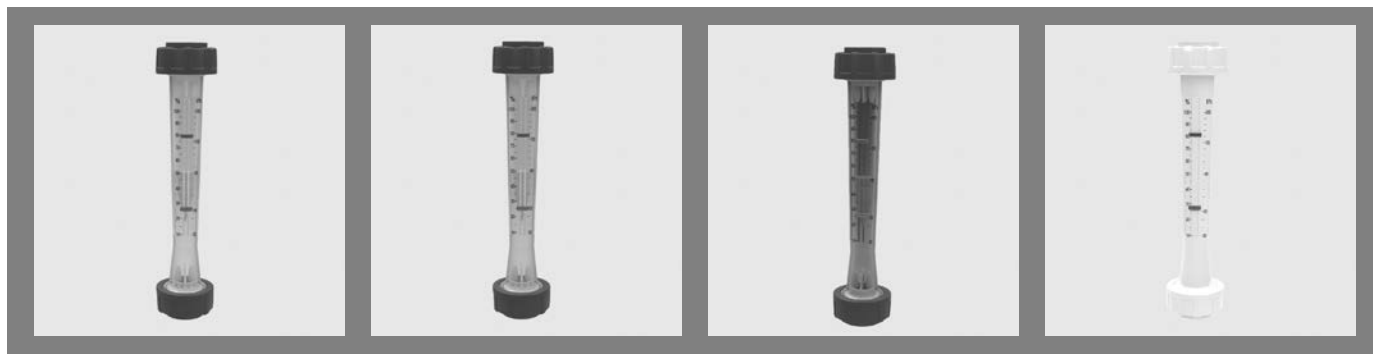


body PSU							
size pressure range	d(mm)		63	63	75	75	75
	DN(mm)		50	50	65	65	65
	DN(inch)		2	2	2 1/2	2 1/2	2 1/2
	G(inch)		2 3/4	2 3/4	3 1/2	3 1/2	3 1/2
	measuring range(l/h)		600-6,000	1,000-10,000	1,500-15,000	2,500-25,000	10,000-50,000
Connection	sealing	ident No.					
PVC-U socket end DIN ISO	EPDM		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
	d(mm)	32	32	40	40	50	50
	DN(mm)	25	25	32	32	40	40
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4
	measuring range(l/h)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000
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

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

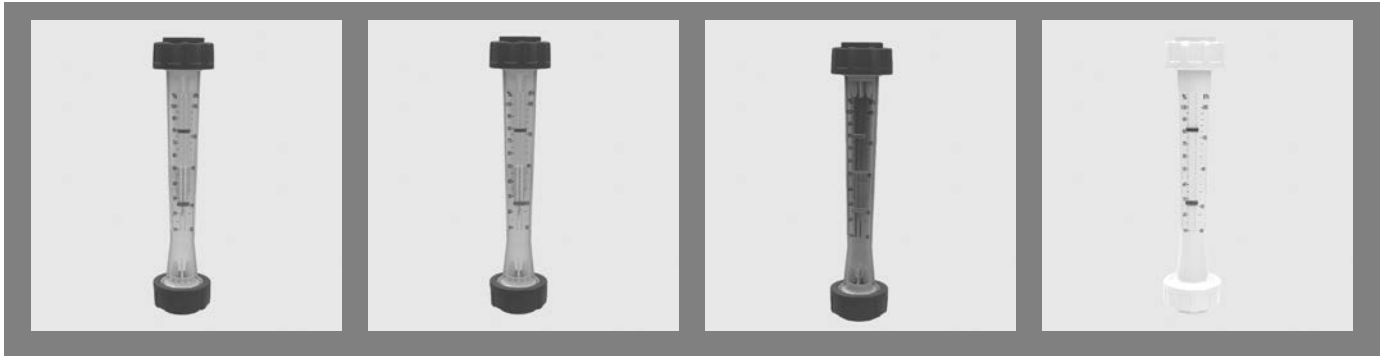


body PVDF								
size pressure range	d(mm)	32	32	40	40	50	50	63
	DN(mm)	25	25	32	32	40	40	50
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4
	measuring range(l/h)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000
Connection	sealing	ident No.						
PVDF socket end DIN ISO	FPM	141994	141995	141996	141997	141998	141999	142000

body PVDF								
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.						
PVDF socket end DIN ISO	FPM		142001	142002	142003	142004	142005	

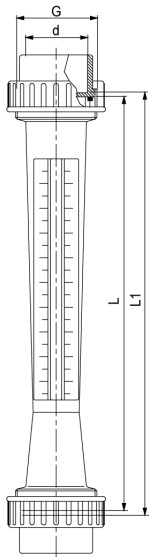
body PVDF float magnet								
size pressure range	float	magnet	magnet	magnet	magnet	magnet	magnet	magnet
	d(mm)	32	32	40	40	50	50	63
	DN(mm)	25	25	32	32	40	40	50
	DN(inch)	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2
	G(inch)	1 1/2	1 1/2	2	2	2 1/4	2 1/4	2 3/4
	measuring range(l/h)	60-600	100-1,000	150-1,500	250-2,500	200-2,000	300-3,000	400-4,000
Connection	sealing	ident No.						
PVDF socket end DIN ISO	FPM	142008	142009	142010	142011	142012	142013	142014

Flowmeter with float, DFM 350



body PVDF		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.					
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

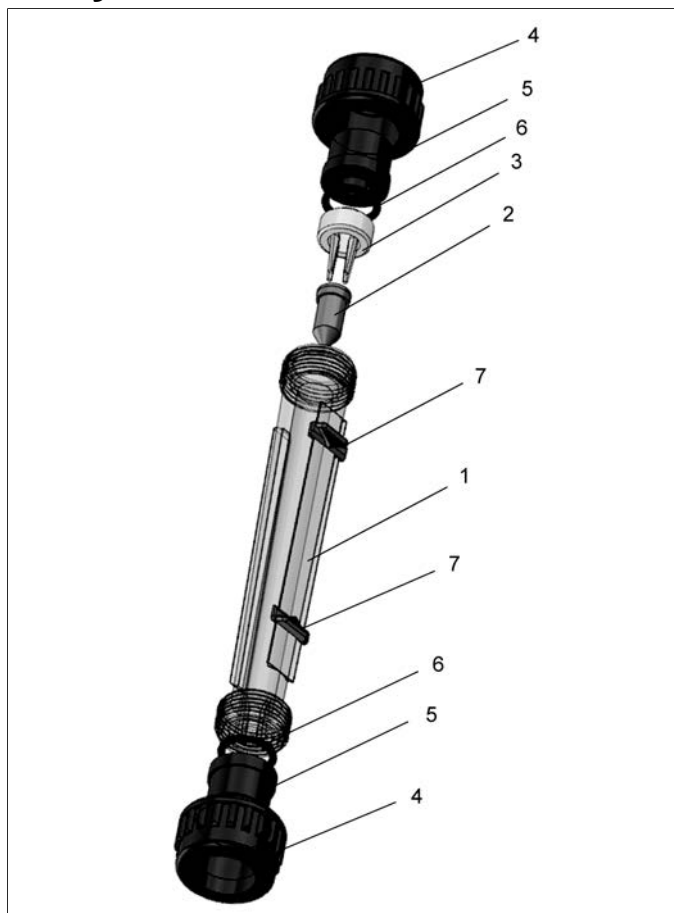
dimensions(mm)

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

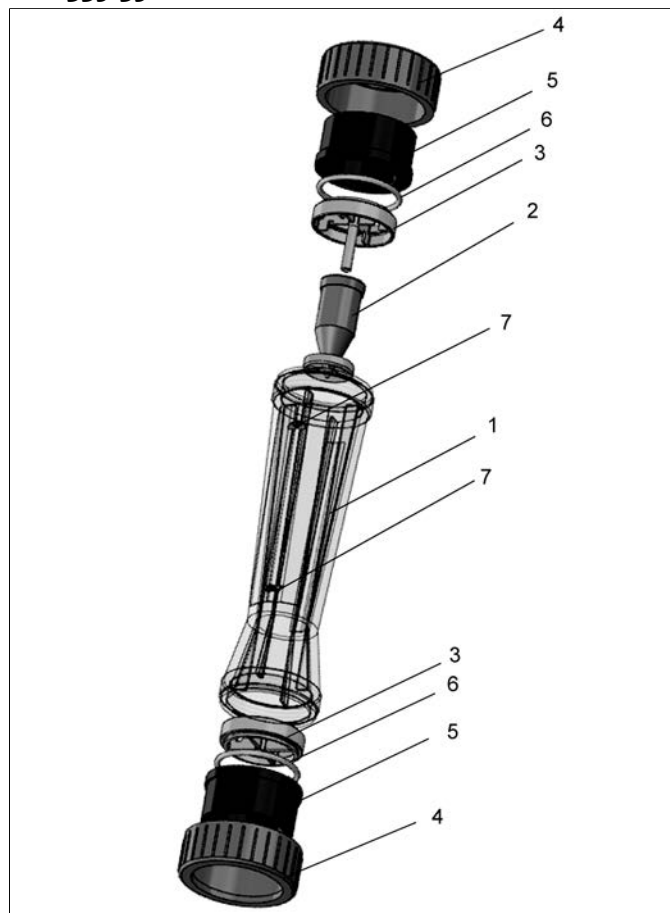
Item Overview

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