



Float-type flow meter

- Flow measurement for translucent liquids and gases
- DN10 to DN65 mm

If a medium with sufficient flow rate flows from bottom to top through a vertically inserted measuring tube, then the floated element raised so far, till an equilibrium between the lift strength of the medium itself and the weight of the floated element is adjusted. Since the average flow rate is proportional to the flow quantity per time unit, the determined equilibrium corresponds to the flow volume.

Flow meters with solenoid floated elements can be equipped with limit value contacts.

Technical data					
Orifice	DN10 to 65				
Material	Polyamide (PA), Polysulfon (PSU), PVC-U				
Measuring tube	Stainless steel, PVDF coated (with and without solenoid)				
Float	PVDF				
Inserts	Standard PVC-U true union				
Connection	On request: PVC-U internal thread PP welded sleeve PP weld end PP internal thread PVDF welded sleeve PVDF weld end Malleable cast iron internal thread Stainless steel V4A internal thread O Ring EPDM, (FPM on request)				
Seal (O-Ring)					
Medium	Neutral and aggressive fluids				
Media temperature	Measuring tube material	Fittings material			
		PVC-U	PVDF	Cast iron	St. steel
	PVC-U	40 °C	40 °C	40 °C	40 °C
	PA	60 °C	60 °C	60 °C	60 °C
	PSU	60 °C	100 °C	100 °C	100 °C
Ambient temperature	Max. + 55 °C				
Nominal pressure	max. 10 bar ¹⁾				
Measurement range	1.5 to 60000 l/h				
Accuracy up to 200 mm	Flow rate in %	20%	50%	70%	100%
Class 4 acc. to VDE/VDI 3513 Sheet 2	Total error v. measured value in %	8	5	4.25	4
	Total error v. final value in %	1.6	2.5	3.4	4
Accuracy from 335 mm	Flow rate in %	50%			
Class 4 acc. to VDE/VDI 3513:1:2014 und 3513-2:2008	Total error v. measured value in %	5			
	Total error v. final value in %	5			
Indicating scale	absolute in l/h and relative % 2 adjustable limit indicators				
Option	Contact limit switch Measuring value sensor				
Installation	Vertical medium current from below to above				

¹⁾ Pressure values [bar]: Measured as overpressure to the atmospheric pressure

Other versions, non standard scales for gases, medium with special viscosity, special measuring units on request

Ordering chart

Overall length 165 mm measuring tube PSU

Orifice DN [mm]	Connection [mm]	Measuring range H ₂ O l/h	Pressure value loss mbar	Article no. without solenoid	Article no. with solenoid
10	16	1.5-15	4.5	781308	781319
10	16	2.5-25	4.5	781309	781320
10	16	5-50	4.5	781310	781321
10	16	10-100	4.5	781311	781322

Overall length 185 mm measuring tube PSU

Orifice DN [mm]	Connection [mm]	Measuring range H ₂ O l/h	Pressure value loss mbar	Article no. without solenoid	Article no. with solenoid
15	20	8-80	5	781312	781323
15	20	15-150	5	781313	781324
15	20	20-200	5	781314	781325

Overall length 200 mm measuring tube PSU

Orifice DN [mm]	Connection [mm]	Measuring range H ₂ O l/h	Pressure value loss mbar	Article no. without solenoid	Article no. with solenoid
25	32	15-150	9	781315	781326
25	32	30-300	9	781316	781327
25	32	50-500	9	781317	781328
25	32	100-1000	9	781318	781329

Overall length 335 mm measuring tube PVC-U

Orifice DN [mm]	Connection [mm]	Measuring range H ₂ O l/h	Pressure value loss mbar	Article no. without Solenoid	Article no. with solenoid
25	32	50-500	23	770352	770365
25	32	100-1000	23	770353	770366
32	40	150-1500	23	770354	770367
32	40	250-2500	23	770355	770368
40	50	200-2000	25	770356	770369
40	50	300-3000	25	770357	770370
40	50	600-6000	25	770358	770371
50	63	600-6000	25	770359	770372
50	63	1000-10000	25	770360	770373
50	63	1500-15000	29	770361	770374
65	75	2000-20000	46	770362	770375
65	75	3000-30000	46	770363	770376
65	75	8000-60000	48	770364	770377

Ordering chart

Overall length 335 mm measuring tube PA

Orifice DN mm	Connection mm	Measuring range H ₂ O l/h	Pressure value loss mbar	Article no. without solenoid	Article no. with solenoid
25	32	50 - 500	23	770300	770313
25	32	100 - 1000	23	770301	770314
32	40	150 - 1500	23	770302	770315
32	40	250 - 2500	23	770303	770316
40	50	200 - 2000	25	770304	770317
40	50	300 - 3000	25	770305	770318
40	50	600 - 6000	25	770306	770319
50	63	600 - 6000	25	770307	770320
50	63	1000 - 10000	25	770308	770321
50	63	1500 - 15000	29	770309	770322
65	75	2000 - 20000	46	770310	770323
65	75	3000 - 30000	46	770311	770324
65	75	8000 - 60000	48	770312	770325

Overall length 335 mm measuring tube PSU



























Orifice DN [mm]	Connection [mm]	Measuring range H ₂ O l/h	Pressure value loss mbar	Article no. without solenoid	Article no. with solenoid
25	32	50 - 500	23	770326	770339
25	32	100 - 1000	23	770327	770340
32	40	150 - 1500	23	770328	770341
32	40	250 - 2500	23	770329	770342
40	50	200 - 2000	25	770330	770343
40	50	300 - 3000	25	770331	770344
40	50	600 - 6000	25	770332	770345
50	63	600 - 6000	25	770333	770346
50	63	1000 - 10000	25	770334	770347
50	63	1500 - 15000	29	770335	770348
65	75	2000 - 20000	46	770336	770349
65	75	3000 - 30000	46	770337	770350
65	75	8000 - 60000	48	770338	770351

Overall length 350 mm measuring tube PVC-U



























Orifice DN [mm]	Connection [mm]	Measuring range H ₂ O l/h	Pressure value loss mbar	Article no. without Solenoid	Article no. with solenoid
25	32	50 - 500	23	770430	770443
25	32	100 - 1000	23	770431	770444
32	40	150 - 1500	23	770432	770445
32	40	250 - 2500	23	770433	770446
40	50	200 - 2000	25	770434	770723
40	50	300 - 3000	25	770435	773247
40	50	600 - 6000	25	770436	770533
50	63	600 - 6000	25	770437	770534
50	63	1000 - 10000	25	770438	770535
50	63	1500 - 15000	29	770439	770536
65	75	2000 - 20000	46	770440	770537
65	75	3000 - 30000	46	770441	770538
65	75	8000 - 60000	48	770442	770539

Ordering chart

Overall length 350 mm measuring tube PA

Orifice DN [mm]	Connection [mm]	Measuring range H ₂ O l/h	Pressure value loss mbar	Article no. without solenoid	Article no. with solenoid
25	32	50 - 500	23	770378 	770391 
25	32	100 - 1000	23	770379 	770392 
32	40	150 - 1500	23	770380 	770393 
32	40	250 - 2500	23	770381 	770394 
40	50	200 - 2000	25	770382 	770395 
40	50	300 - 3000	25	770383 	770396 
40	50	600 - 6000	25	770384 	770397 
50	63	600 - 6000	25	770385 	770398 
50	63	1000 - 10000	25	770388 	770399 
50	63	1500 - 15000	29	770387 	770400 
65	75	2000 - 20000	46	770388 	770401 
65	75	3000 - 30000	46	770389 	770402 
65	75	8000 - 60000	48	770390 	770403 

Overall length 350 mm measuring tube PSU

Orifice DN [mm]	Connection [mm]	Measuring range H ₂ O l/h	Pressure value loss mbar	Article no. without solenoid	Article no. with solenoid
25	32	50 - 500	23	770404 	770417 
25	32	100 - 1000	23	770405 	770418 
32	40	150 - 1500	23	770406 	770419 
32	40	250 - 2500	23	770407 	770420 
40	50	200 - 2000	25	770408 	770421 
40	50	300 - 3000	25	770409 	770422 
40	50	600 - 6000	25	770410 	770423 
50	63	600 - 6000	25	770411 	770424 
50	63	1000 - 10000	25	770412 	770425 
50	63	1500 - 15000	29	770413 	770426 
65	75	2000 - 20000	46	770414 	770427 
65	75	3000 - 30000	46	770415 	770428 
65	75	8000 - 60000	48	770416 	770429 

Accessories, TEU007

Technical data - Contact limit value	
Switching voltage	230 V / 50 Hz
Switching current	max. 0.5 A
Contact rating	max. 10 W / 12 VA
Contact mounting with inductive load	Reed contact, bistable Protective relay contact used
Resistor channel	< 200 Ohm
Isolation resistor	> 10 ¹¹ Ohm
Protection class	IP65
Installation	flowmeter dovetail guide

Method of operation, TEU007

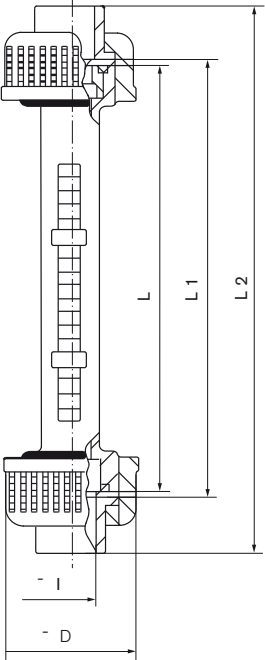
Version	Switching hysteresis [mm] float	Contact limit value closed, if float	open, if float	Float flow meter
min. contact	1 to 2	under contact	above contact	all sizes
max. contact	1 to 2	above contact	under contact	all sizes

Ordering chart for accessories

Version	Float flow rate balance	Article no.
min.	all sizes	770460 10
max.	all sizes	770461 10

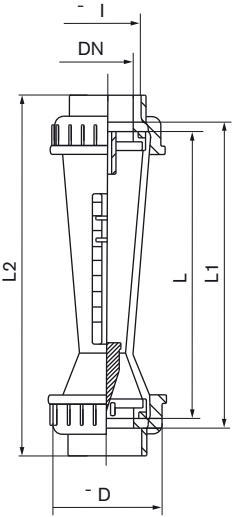
Dimensions [mm]

Overall length 165, 185, 200 mm



DN [mm]	Ø I (internal spigot) [mm]	L [mm]	L1 [mm]	L2 [mm]	Ø D [mm]
10	16	165	171	199	35
15	20	185	191	223	43
20	32	200	206	250	60

overall length 335, 350 mm



Measurement chart for overall length 335

DN [mm]	Ø I (Core) [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]
25	32	60	335	341	385
32	40	72	335	341	393
40	50	83	335	341	403
50	63	103	335	341	417
65	75	122	335	341	429

Measurement chart for overall length 350

DN [mm]	Ø I (Core) [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]
25	32	60	350	356	400
32	40	72	350	356	408
40	50	83	350	356	418
50	63	103	350	356	432
65	75	122	350	356	444

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In case of special application conditions, please consult for advice.

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