



Zertifiziertes
QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Flap Flow Meter



measuring
•
monitoring
•
analysing



- Flow range:
0.5 - 7 ... 50 - 500 m³/h
- Measurement accuracy:
±5 % f.s.
- p_{max} PN 40
- t_{max} 200 °C
- Connection:
Wafer flange DN 25...300
- Material:
PVC, stainless steel
- Small pressure loss

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Model:
DPR



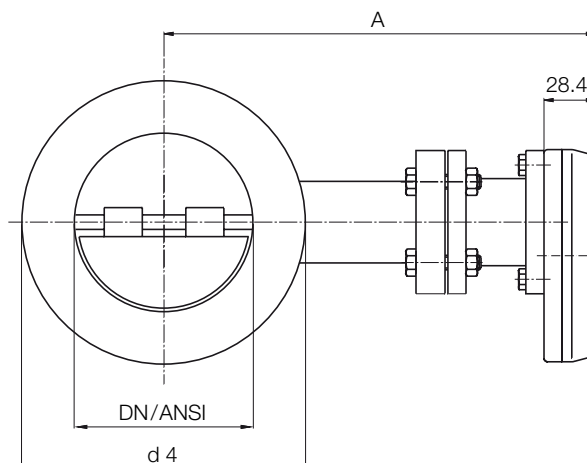
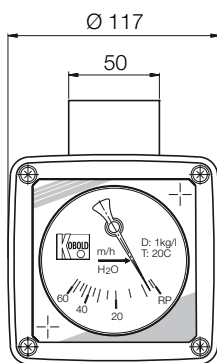
Description

The new KOBOLD flow meter type DPR works according to the baffle plate principle. A very small mounting length of only 50 mm can be implemented with the sandwich construction. A plate (semi-circular) is fastened to a rotatable axis in the 50 mm thick ring. The angle between plate and ring changes according to the flow throughput. A permanently attached magnetic coupling transfers the motion to an external indicator. A torsion spring forces the baffle plate back to its original position when the flow throughput decreases. The devices can therefore be installed in any position.

Applications

- Robust construction
- Negligible pressure losses
- Horizontal or vertical direction of flow
- Short design

Dimensions



Technical Details

Material

- Display case: Aluminium, PA
- Ring: PVC or stainless steel 1.4571
- Baffle plate/axis: stainless steel 1.4571

Connection:

wafer flange flange
DN 25 to DN 300
for mounting between welding
neck flanges DIN 2501
(ANSI upon request)

Max. temperature:

PVC 0...20°C at 10 bar
(0...40°C at 6 bar)
st. steel -70...200°C at 10 bar
(the medium should not freeze)

Max. pressure:

DPR-13: PN 6/10
DPR-14: PN 6/10/16/25/40

Mounting position:

any

Accuracy:

±5% f.s.

Contact

● **Bistable reed contacts as N/C and/or N/O contact**

- Electrical load: max. 140 V_{AC} / 200 V_{DC}
- Switching voltage: 50 V_{AC} / 75 V_{DC}
- Switching current: max. 0.25 A
- Switching capacity: max. 5 VA / 3W
- Max. ambient temperature: -25...+70 °C

● **Inductive contact as N/C and/or N/O contact**

- Power supply: 8 V_{DC}
- Active surface free: ≥ 2.1 mA
- Active surface covered: ≤ 1.2 mA
- Max. ambient temperature: -25...+70 °C

Anmerkung: Die Klappenachse für die Geräte DN 25 und DN 32 liegt bei 9 mm oberhalb der Ringachse



Dimensions, Pressure step PN10

DN	d4	A*	Weight [kg]		ANSI	d4	A*
			DPR-13	DPR-14			
25	68	202	2.0	3.8	1	51	199
32	78	206	2.0	3.8	1 1/4	64	204
40	88	206	2.0	3.8	1 1/2	73	206
50	102	211	2.1	3.9	2	92	212
65	122	219	2.3	5.0	2 1/2	105	217
80	138	226	2.5	5.6	3	127	225
100	158	236	2.7	6.4	4	157	237
125	188	249	2.8	8.0	5	186	250
150	212	261	3.3	8.8	6	216	263
200	268	286	3.7	11.4	8	27	287
250	320	311	4.5	13.0	10	324	313
300	370	336	4.9	22.0	12	381	338

*Maß A für DPR-13 weicht minimal vom Standard ab.

Order Details (Example: DPR-13 07H F25 L 00)

Material	Measuring range Water [m³/h]			Wafer flange*	Flow direction	Contacts
DPR-13... = PVC DPR-14... = st. steel	07H = 0.5 - 7	12H = 1 - 12	-	F25 = DN 25	horizontal ...L = from the left ...R = from the right vertical ...T = from the top ...B = from bottom	...00 = without Reed contact ...S1 = 1 N/C ...C1 = 1 N/O Inductive contact ...I1 = 1 Inductive contact N/C Inductive contact ...N1 = 1 Inductive contact N/O
	08H = 0.5 - 8	18H = 1.8 - 18	40H = 4 - 40	F32 = DN 32		
	06H = 0.6 - 6 30H = 3 - 30	16H = 1.6 - 16 50H = 5 - 50	-	F40 = DN 40		
	08H = 0.8 - 8 35H = 3 - 35	18H = 1.8 - 18 50H = 5 - 50	-	F50 = DN 50		
	18H = 2 - 18 90H = 9 - 90	40H = 4 - 40 H1H = 11 - 110	60H = 6 - 60	F65 = DN 65		
	20H = 2 - 20 1HH = 10 - 100	40H = 4 - 40 H2H = 12 - 120	60H = 6 - 60	F80 = DN 80		
	50H = 5 - 50 H4H = 14 - 140	80H = 8 - 80 2HH = 20 - 200	H2H = 12 - 120	F1H = DN 100		
	55H = 5 - 55 H4H = 14 - 140	80H = 8 - 80 2HH = 20 - 200	H2H = 12 - 120 3FH = 35 - 350	F1Z = DN 125		
	60H = 6 - 60 H8H = 18 - 180	1HH = 10 - 100 2ZH = 22 - 220	H4H = 14 - 140 3FH = 35 - 350	F1F = DN 150		
	H2H = 12 - 120 2FH = 25 - 250	H5H = 15 - 150 4HH = 40 - 400	2HH = 20 - 200	F2H = DN 200		
	H8H = 18 - 180 3HH = 30 - 300	2FH = 25 - 250 4HH = 40 - 400	-	F2F = DN 250		
	2ZH = 20 - 220 3HH = 30 - 300	2FH = 25 - 250 5HH = 50 - 500	-	F3H = DN 300		

*Please specify pressure rating in writing. Also available for ANSI flanges (Code Axx)

Level Monitoring

- Rotating vane
- Magnetic switches
- Pressure head
- Conductive
- Optoelectronic
- Membrane
- Level switches
- Microwave
- Vibration



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