

Rotating Vane Flow Indicator

Threaded Connections · for Liquids



measuring

monitoring

analysing

DAF-1



- Indication range:0.03-0.1...5-150 I/min water
- p_{max}: 16 bar; t_{max}: 110 °C
- ◆ Connection: G¼...G 1½; NPT on request
- Material:
 Trogamide, Polysulfone,
 nickel plated brass, stainless steel



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Application and Operating Principle

The KOBOLD Rotating Vane Flow Indicator is applied where visual flow indication without flow measurement is required. A square housing with transparent windows front and back, contains a rotating vane whose rotary motion, caused by the flowing medium, indicates presence of "flow".

Within the same housing dimensions, differing minimum and maximum flow ranges are obtained by changing the inlet port orifice. The instruments can be installed in any position. Flow, however, must be in the direction indicated by the arrow.

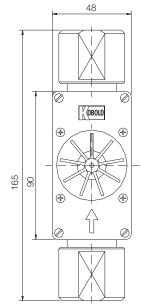
They are pivot-mounted, which enables the sight glass of the indicating unit to be turned to an optimum viewing direction even during operation (not with material combination DAF-14...).

Material Combination/Technical Details

DAF-	11	12	13	14	
Housing:	Trogamide	Poly- sulfone	nickel pla- ted brass	st. steel	
Housing cover:	Trogamide	Poly- sulfone sulfone		Poly- sulfone	
Threaded connections:	nickel pla- ted brass			st. steel ¹⁾	
Locking pins:	brass	brass	brass	-	
O rings:	NBR	FPM NBR		FPM	
Rotating vane:	POM	PTFE	POM	PTFE	
Axle:	st. steel1)	st. steel1)	st. steel1)	st. steel1)	
Axle bearing:	PTFE	PTFE	PTFE	PTFE	
Max. operating pressure:	10 bar	10 bar 16 bar		16 bar	
Max. operating temperature:	60°C	110°C	110°C	110°C	

¹⁾ Material code 1.4571

Dimensions



Installation hints

- The instruments can be installed in any position. Flow however must be in the direction of arrow.
- PTFE tape to be used for sealing of connections.
- During installation, housing fittings must be held static to avoid transmission of stresses into the housing.
- During operation, observe that the maximum permitted flow is not exceeded, otherwise under certain conditions, this can lead to damage to the rotating vanes.

Connections

	G1⁄8	G1⁄4	G1/2	G¾	G1	G1½	
	R06	R08	R15	R20	R25	R40	
•	1/8" NPT	1/4" NPT	½" NPT	34" NPT	1" NPT	1 ½" NPT	
N06 N08		N15	N20	N25	N40		

Order Details (Example: DAF-1101H R06)

Indication range		Model					Connection			
Water [l/min]	∆ P [bar]	DAF-11	DAF-12	DAF-13	DAF-14	G-thread		NPT-thread		
0.030.1	0.25	DAF-1101H	DAF-1201H	DAF-1301H	DAF-1401H	R06	R08	N06	N08	
0.030.5	0.8	DAF-1102H	DAF-1202H	DAF-1302H	DAF-1402H	R06	R08	N06	N08	
0.23	0.85	DAF-1103H	DAF-1203H	DAF-1303H	DAF-1403H	R06	R08	N06	N08	
0.512	0.55	DAF-1104H	DAF-1204H	DAF-1304H	DAF-1404H	R08	R15	N08	N15	
125	0.35	DAF-1105H	DAF-1205H	DAF-1305H	DAF-1405H	R15	R20	N15	N20	
250	0.35	DAF-1106H	DAF-1206H	DAF-1306H	DAF-1406H	R20	R25	N20	N25	
5150	1.25	DAF-1107H	DAF-1207H	DAF-1307H	DAF-1407H	R32 R40		N32	N40	



Rotating Vane Flow Indicator

Flanged Connections · for Liquids



measuring

monitoring

analysing

DAF-2



- Indication range: 0.03-0.1...5-150 l/min water
- p_{max}: 16 bar; t_{max}: 110 °C
- Connection:
 DN 15 ... DN 50;
 ½" ... 2" ANSI
- Material: Housing: stainless steel Cover: Polysulfone



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Application and Operating Principle

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Within the same housing dimensions, differing minimum and maximum flow ranges are obtained by changing the inlet port orifice. The instruments can be installed in any position. Flow, however, must be in the direction indicated by the arrow. Connection is made by means of stainless steel flanges in accordance with DIN/Form C in standard sizes DN 15, 25, 40 or 50.

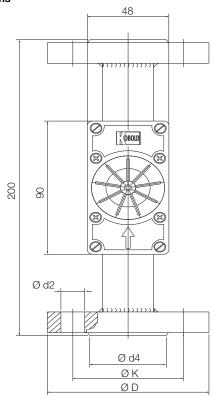
Material Combination/Technical details

Housing:	stainless steel 1.4571 / 1.3955
Housing cover:	Polysulfone
Connection:	stainless steel 1.4571
O rings:	FPM
Rotating vane:	PTFE
Axle:	stainless steel 1.4571
Axle bearing:	PTFE
Max. operating pressure:	16 bar
Max. operating temperature:	110°C

Installation hints

- The instruments can be installed in any position. Flow however must be in the direction of arrow.
- PTFE tape to be used for sealing of connections.
- During operation, observe that the maximum permitted flow is not exceeded, otherwise under certain conditions, this can lead to damage to the rotating vanes.

Dimensions



Connections

DN	D [mm]	K [mm]	d4 [mm]	d2 [mm]	Number of screws	
15	95	65	45	14	4	
25	115	85	68	14	4	
40	150	110	88	18	4	
50	165	125	102	18	4	

Order Details (Example: DAF-2401H F15)

Indication range Model			Connection DIN-Flange				Connection ANSI-Flange			
Water [l/min]	ΔP [bar]	DAF-24	DN15 PN16	DN25 PN16	DN40 PN16	DN50 PN16	½" 150 lbs	1" 150lbs	1½" 150lbs	2" 150 lbs
0.030.1	0.25	DAF-2401H	F15	-	-	-	A15	-	-	-
0.030.5	0.8	DAF-2402H	F15	-	-	-	A15	-	-	-
0.23	0.85	DAF-2403H	F15	-	-	-	A15	-	-	-
0.512	0.55	DAF-2404H	F15	F25	-	-	A15	A25	-	-
125	0.35	DAF-2405H	F15	F25	F40	-	A15	A25	A40	-
250	0.35	DAF-2406H	-	F25	F40	-	-	A25	A40	-
5150	1.25	DAF-2407H	•	F25	F40	F50	-	A25	A40	A50