



Durchflussmesser-Manufaktur



DM SERIES

TURBINE FLOWMETERS

FOR *HIGH ACCURACY* MEASUREMENTS

Datasheet

DM Series, EN / 10406



Turbine Flowmeter

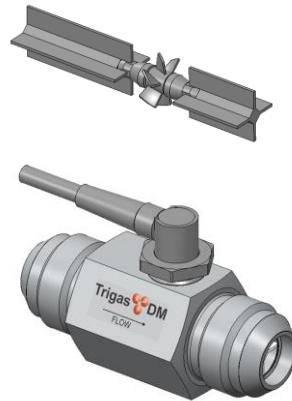
Turbine flow meters are the ideal solution for measurement applications in liquids, where high accuracy, very fast response time, compact design, high reliability in continuous operation and insensitivity to fluctuating flow and temperature are required. A variety of end fitting options allows the measuring instruments to be easily connected to the process piping

Applications

The DM Series turbine flowmeters are suited for a wide range of applications. These include monitoring of fuel, coolants and lubricants in engine development and construction, measurement of dosing quantities in the food and pharmaceutical sector, monitoring and measurement of high-purity water in the research and development sector, diesel consumption calculations and many more.

Advantages

- Helical rotor and asymmetrical flow straightener for improved linearity and lower pressure loss
- Digital output signal for Interference-free transmission
- Precision ball bearings for better repeatability and optimal results at low flow rates
- Very wide measuring range
- Pulse detector (pickoff) in the housing with locking nut and integrated temperature sensor



Flow meter manufacturing and calibration

As a specialist in flow measurement technology, *TrigasDM* supplies high-quality measuring instruments, electronics and calibrators for liquids and gases as well as timely and efficient after-sales service and re-calibration through our Service company *TrigasFI*.

Made in Germany

Our products are exclusively developed and manufactured in Neufahrn, 20 km north of Munich, ensuring world-class technical know-how for our customers.

Contact

We are proud of our high-quality products and friendly customer service and welcome you as a valued customer to our growing family. You can benefit from our long-standing experience and our comprehensive technical support.

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Technical Data

- Flow range: see "Measuring ranges" table
 Response time: <3 ms
 Temperature range: -270° C up to 400° C depending on bearing
 (Consult factory for bearing and pickoff Temperature ratings)
 Operating pressure: Up to 540 bar depending on process connection
 AN: up to 540 bar depending on size, according to ISO 8434-2, Part 2:
 37-degree flared connectors
 HS: up to 34 bar depending on mating hose and clamp
 Tri-Clamp: up to 100 bar depending on size and mating clamp selection
 NPT: 270 bar or more, according to ASME/ANSI B1.20.1
 BSP: 100 bar or more, according to BS EN 10226-1:2004, BS EN 10226-
 2:2005, BS EN 10226-3:2005.
 Viscosity: Each turbine is individually calibrated according to customer
 specifications. (Standard viscosity: 1.3 mm²/s)
 Calibration accuracy: ≤±0.03% of reading
 Repeatability: ≤±0.05% of reading
 Linearity: ≤±0.5% of reading value in the linear flow range
 ≤±0.1% with linearization electronics (Lysis, TriLIN)
 Standard material: Stainless steel Version 1 (Standard): 1.4305/303, 1.4104/430F,
 1.4310/301, Si3N4, 1.4108/440C, 1.4016/43
 Stainless Steel Version 2 (enhanced Corrosion resistance):
 1.4401/316, 1.4460/329, 1.4108/440C, 1.4310/301, Si3N4,
 1.4108/440C, 1.4016/430

Measuring ranges

Modell	Linear Flow Range				Extended Flow Range						K-Faktor ¹⁾		max. Freque ncy ¹⁾
	RF ²⁾ and Mag ³⁾				RF ²⁾		Mag ³⁾		RF ²⁾ and Mag ³⁾		[Pulse/l]	[Pulse/gal]	[Hz]
	min.		max.		min.		min.		max.				
	[l/min]	[GPM]	[l/min]	[GPM]	[l/min]	[GPM]	[l/min]	[GPM]	[l/min]	[GPM]			
DM2-8	0.5 ⁴⁾	0.13 ⁴⁾	5.0 ⁴⁾	1.3 ⁴⁾	0.05	0.013	0.8	0.21	5.5	1.5	14700	55555	1350
DM4-8	0.95	0.25	12	3.2	0.1	0.03	0.4	0.11	13	3.4	8700	32890	1950
DM6-8	1.9	0.50	20	5.3	0.2	0.05	0.5	0.13	24	6.3	4860	18370	2000
DM8-8	2.8	0.74	33	8.7	0.3	0.08	0.6	0.16	38	10.0	3720	14050	2100
DM-08	3.0	0.79	40	10.6	0.4	0.11	0.8	0.21	48	12.7	2450	9280	1950
DM-10	4.5	1.2	60	16	0.6	0.16	1.1	0.29	70	18.5	1710	6460	2000
DM-12	7.6	2.0	90	23.8	0.9	0.24	1.9	0.50	95	25.1	1260	4760	2000
DM-14	17	4.5	170	44.9	1.7	0.50	2.0	0.52	180	47.6	460	1740	1400
DM-16	19	5.0	220	58.1	2.2	0.58	3.8	1.0	240	63.4	550	2080	2200
DM-20	34	9.0	400	106	3.8	1.0	6.0	1.6	490	130	245	920	2000
DM-24	57	15.1	700	185	6.0	1.6	10	2.6	820	217	110	415	1500
DM-32	83	21.9	1100	291	10	2.6	13	3.4	1300	344	65	245	1400
DM-40	151	39.9	1510	399	17	4.5	19	5.0	1700	450	48	180	1200
DM-48	250	66.0	2500	660	28	7.4	28	7.4	2840	750	15	57	650
DM-64	475	125.4	4750	1254	57	15.1	57	15.1	5700	1505	5.5	21	600

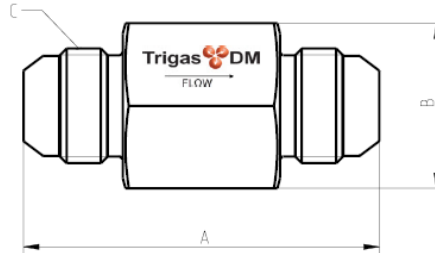
- 1) The K-factors and frequency data are average values. Each turbine is calibrated according to customer specifications and delivered with individual calibration protocols.
- 2) RF = Frequency-modulated pickoff
- 3) Mag = Magnetic pickoff



4) DM2-8 $\leq \pm 2\%$ of reading

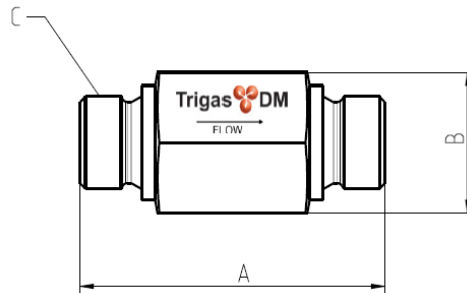
Housing Dimensions

DM-Series AN Housing, Code AN:

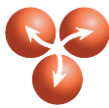


Model	Inner Ø		Housing				Connection	Tube Ø AN-Size	Pickoff Screw-in Depth		
	[mm]	["]	A [mm]	A ["]	B [mm]	B ["]			C ["]	t [mm]	t ["]
DM2-8	7.6	0.29	62.2	2.45	22 x 22	0.87 x 0.87	3/4" -16UNJF-3A	1/2"	6.2	0.244	DM-Series 5/8" - 18UNF-2B
DM4-8	7.6	0.29	62.2	2.45	22 x 22	0.87 x 0.87	3/4" -16UNJF-3A	1/2"	6.2	0.244	
DM6-8	9.4	0.37	62.2	2.45	23 x 23	0.91 x 0.91	3/4" -16UNJF-3A	1/2"	6.1	0.240	
DM8-8	10.2	0.40	62.2	2.45	23 x 23	0.91 x 0.91	3/4" -16UNJF-3A	1/2"	5.7	0.224	
DM-08	11.2	0.44	62.2	2.45	25 x 25	0.91 x 0.91	3/4" -16UNJF-3A	1/2"	6.2	0.244	
DM-10	12.8	0.50	69.1	2.72	SW 32	1.26 Hex.	7/8" -14UNJF-3A	5/8"	8.5	0.335	
DM-12	14.3	0.56	82.6	3.25	SW 32	1.26 Hex.	1-1/16" -12UNJ-3A	3/4"	7.5	0.295	
DM-16	21.9	0.86	90.4	3.56	SW 36	1.42 Hex.	1-5/16" -12UNJ-3A	1"	5.7	0.224	
DM-20	25.4	1.00	103.0	4.06	SW 41	1.61 Hex.	1-5/8" -12UNJ-3A	1 1/4"	6.0	0.236	
DM-24	33.4	1.51	116.6	4.59	SW 50	1.97 Hex.	1-7/8" -12UNJ-3A	1 1/2"	6.4	0.252	
DM-32	44.5	1.75	154.0	6.06	SW 65	2.56 Hex.	2-1/2" -12UNJ-3A	2"	7.9	0.311	

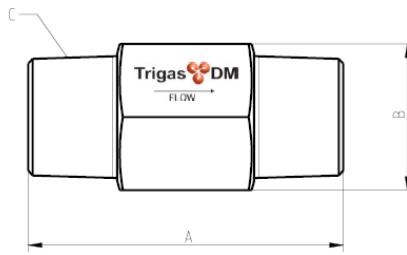
DM-Series BSPP, Code BE:



Model	Inner Ø		Housing				Connection	Pickoff t = screw-in		
	[mm]	["]	A [mm]	A ["]	B [mm]	B ["]		C ["]	t [mm]	t ["]
DM2-8	7.6	0.29	62.2	2.45	22 x 22	0.87 x 0.87	G 1/4"	6.2	0.244	DM-Series 5/8" - 18UNF-2B
DM4-8	7.6	0.29	62.2	2.45	22 x 22	0.87 x 0.87	G 1/4"	6.2	0.244	
DM6-8	9.4	0.37	62.2	2.45	25 x 25	0.98 x 0.98	G 1/2"	7.1	0.279	
DM8-8	10.2	0.40	62.2	2.45	25 x 25	0.98 x 0.98	G 1/2"	6.7	0.263	
DM-08	11.2	0.44	62.2	2.45	25 x 25	0.98 x 0.98	G 1/2"	6.2	0.244	
DM-10	12.8	0.50	69.1	2.72	SW 32	1.26 Hex.	G 1/2"	8.5	0.335	
DM-12	14.3	0.56	82.6	3.25	SW 32	1.26 Hex.	G 1/2"	7.5	0.295	
DM-16	21.9	0.86	90.4	3.56	SW 36	1.42 Hex.	G 1"	5.7	0.224	
DM-20	25.4	1.00	103.0	4.06	SW 50	1.97 Hex.	G 1 1/4"	7.8	0.307	
DM-24	33.4	1.51	116.6	4.59	SW 50	1.97 Hex.	G 1 1/2"	6.4	0.252	
DM-32	44.5	1.75	154.0	6.06	SW 65	2.56 Hex.	G 2"	7.9	0.311	

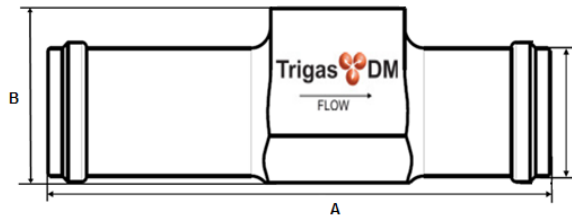


DM-Series NPT, Code NE:

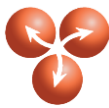


Model	Inner Ø		Housing				Connection		Pickoff t = screw-in		
	[mm]	["]	A [mm]	A ["]	B [mm]	B ["]	C ["]	t [mm]	t ["]	Thread Type	
DM2-8	7.6	0.29	67.9	2.67	22 x 22	0.87x0.87	1/2" - 14 NPT	6.2	0.244	DM-Series 5/8" - 18UNF- 2B	
DM4-8	7.6	0.29	67.9	2.67	22 x 22	0.87x0.87	1/2" - 14 NPT	6.2	0.244		
DM6-8	9.4	0.37	67.9	2.67	23 x 23	0.91x0.91	1/2" - 14 NPT	6.1	0.240		
DM8-8	10.2	0.40	67.9	2.67	23 x 23	0.91x0.91	1/2" - 14 NPT	5.7	0.224		
DM-08	11.2	0.44	67.9	2.67	23 x 23	0.91x0.91	1/2" - 14 NPT	6.2	0.244		
DM-10	12.8	0.50	69.1	2.72	SW 32	1.26 Hex.	3/4" - 14 NPT	8.5	0.335		
DM-12	14.3	0.56	82.6	3.25	SW 32	1.26 Hex.	3/4" - 14 NPT	7.5	0.295		
DM-16	21.9	0.86	90.4	3.56	SW 36	1.42 Hex.	1" - 11 1/2 NPT	5.7	0.224		
DM-20	25.4	1.00	103.0	4.06	SW 46	1.81 Hex.	1 1/4" - 11 1/2 NPT	8.3	0.326		
DM-24	33.4	1.51	116.6	4.59	SW 50	1.97 Hex.	1 1/2" - 11 1/2 NPT	6.4	0.252		
DM-32	44.5	1.75	154.0	6.06	SW 65	2.56 Hex.	2" - 11 1/2 NPT	7.9	0.311		

DM-Series HS Standard:



Model	Inner Ø		Housing				Connection		Pickoff screw-in depth			
	[mm]	["]	A [mm]	A ["]	B [mm]	B ["]	C [mm]	C ["]	t [mm]	t ["]	Thread Type	
DM2-8	7.6	0.29	62.2	2.45	22 x 17	0.87 x 0.87	Ø 9.5	Ø 0.37	6.2	0.244	0.244	DM-Series 5/8" - 18UNF- 2B
DM4-8	7.6	0.29	62.2	2.45	22 x 17	0.87 x 0.87	Ø 9.5	Ø 0.37	6.2	0.244	0.244	
DM6-8	9.4	0.37	62.2	2.45	23 x 23	0.91 x 0.91	Ø 12.7	Ø 0.5	6.1	0.240	0.24	
DM8-8	10.2	0.40	62.2	2.45	23 x 23	0.91 x 0.91	Ø 12.7	Ø 0.5	5.7	0.224	0.224	
DM-08	11.2	0.44	62.2	2.45	25 x 25	0.91 x 0.91	Ø 12.7	Ø 0.5	6.2	0.244	0.244	
DM-10	12.8	0.50	69.1	2.72	SW 32	1.26 Hex.	Ø 15.9	Ø 0.63	8.5	0.335	0.335	
DM-12	14.3	0.56	82.5	3.25	SW 32	1.26 Hex.	Ø 19.1	Ø 0.75	7.5	0.295	0.295	
DM-16	21.9	0.86	90.4	3.56	SW 36	1.42 Hex.	Ø 25.4	Ø 1.00	5.7	0.224	0.224	
DM-20	25.4	1.00	103.1	4.06	SW 41	1.61 Hex.	Ø 31.8	Ø 1.25	6.0	0.236	0.236	
DM-24	33.4	1.51	116.6	4.60	SW50	1.97 Hex.	Ø 38.1	Ø 1.5	6.4	0.252	0.252	
DM-32	44.5	1.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DM-40	59.7	2.35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	



DM-Series HS-L (lightweight - standard length)

Model	Inner Ø		Housing				Connection		Pickoff screw-in depth		
	[mm]	["]	A [mm]	A ["]	B [mm]	B ["]	C [mm]	C ["]	t [mm]	t ["]	Thread Type
DM2-8	7.6	0.29	62.2	2.45	15.7	0.618	Ø 9.5	Ø 0.37	6.1	0.240	DM-Serie 5/8" - 18UNF- 2B
DM4-8	7.6	0.29	62.2	2.45	15.7	0.618	Ø 9.5	Ø 0.37	6.1	0.240	
DM6-8	9.4	0.37	62.2	2.45	19.0	0.748	Ø 12.7	Ø 0.50	6.1	0.240	
DM8-8	10.2	0.40	62.2	2.45	19.5	0.767	Ø 12.7	Ø 0.50	6.2	0.244	
DM-08	11.2	0.44	62.2	2.45	20.0	0.787	Ø 12.7	Ø 0.50	6.2	0.244	
DM-10	12.8	0.50	69.1	2.72	22.5	0.885	Ø 15.9	Ø 0.63	6.0	0.236	
DM-12	14.3	0.56	82.5	3.25	25.0	0.984	Ø 19.1	Ø 0.75	6.1	0.240	
DM-16	21.9	0.86	90.4	3.56	33.0	1.299	Ø 25.4	Ø 1.00	6.1	0.240	
DM-20	25.4	1.00	103.0	4.06	38.0	1.496	Ø 31.8	Ø 1.25	6.0	0.236	
DM-24	33.4	1.51	116.6	4.60	45.7	1.799	Ø 38.1	Ø 1.50	6.1	0.240	
DM-32	44.5	1.75	154.0	6.06	58.7	2.311	Ø 50.8	Ø 2.00	6.1	0.240	
DM-40	59.7	2.35	154.5	6.08	Ø 85	Ø 3.35	Ø 64.0	Ø 2.52	6.1	0.240	

DM-Series HS-K (short version - reduced length and weight)

Model	Inner Ø		Housing				Connection		Pickoff screw-in depth		
	[mm]	["]	A [mm]	A ["]	B [mm]	B ["]	C [mm]	C ["]	t [mm]	t ["]	Thread Type
DM2-8	7.6	0.29	56.0	2.35	15.7	0.618	Ø 9.5	Ø 0.37	6.2	0.244	DM-Serie 5/8" - 18UNF- 2B
DM4-8	7.6	0.29	56.0	2.35	15.7	0.618	Ø 9.5	Ø 0.37	6.2	0.244	
DM6-8	9.4	0.37	56.2	2.21	19.0	0.748	Ø 12.7	Ø 0.5	6.1	0.240	
DM8-8	10.2	0.40	56.2	2.21	19.5	0.767	Ø 12.7	Ø 0.5	5.7	0.244	
DM-08	11.2	0.44	56.2	2.21	20.0	0.787	Ø 12.7	Ø 0.5	6.2	0.244	
DM-10	12.8	0.50	61.1	2.41	22.5	0.885	Ø 15.9	Ø 0.63	8.5	0.335	
DM-12	14.3	0.56	69.8	2.75	25.0	0.984	Ø 19.1	Ø 0.75	7.5	0.295	
DM-16	21.9	0.86	77.4	3.05	33.0	1.299	Ø 25.4	Ø 1.00	5.7	0.224	
DM-20	25.4	1.00	85.1	3.35	38.0	1.496	Ø 31.8	Ø 1.25	6.0	0.236	
DM-24	33.4	1.51	97.6	3.84	Ø 56	Ø 2.20	Ø 38.1	Ø 1.50	6.0	0.236	
DM-32	44.5	1.75	124.0	4.88	Ø 70	Ø 7.76	Ø 50.8	Ø 2.00	6.1	0.240	
DM-40	59.7	2.35	128.0	6.08	Ø 85	Ø 3.35	Ø 64.0	Ø 2.52	6.1	0.276	

Other types of fittings available upon request.



Pressure drop

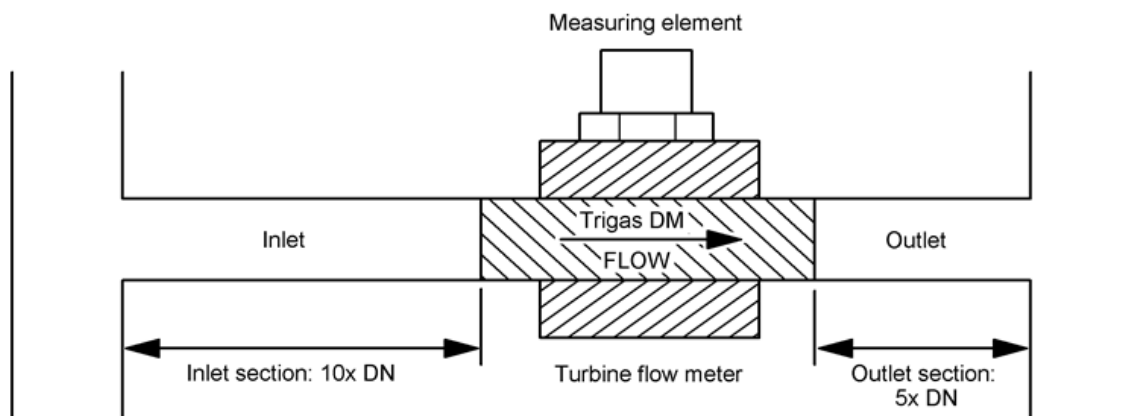
The pressure drop at different flow rate levels are listed below.

Modell	Pressure drop [bar]						
	% of the maximum flow						
	10%	25%	40%	55%	70%	85%	100%
DM2-8	0.00	0.01	0.03	0.05	0.08	0.11	0.15
DM4-8	0.01	0.03	0.06	0.16	0.19	0.27	0.35
DM6-8	0.01	0.02	0.06	0.11	0.16	0.23	0.32
DM8-8	0.01	0.05	0.11	0.20	0.30	0.46	0.61
DM-08	0.01	0.03	0.08	0.14	0.21	0.29	0.36
DM-10	0.06	0.12	0.23	0.41	0.61	0.92	1.22
DM-12	0.06	0.13	0.24	0.42	0.64	0.93	1.22
DM-14	0.06	0.12	0.20	0.32	0.44	0.62	0.84
DM-16	0.06	0.09	0.16	0.27	0.39	0.57	0.74
DM-20	0.06	0.13	0.24	0.43	0.62	0.96	1.31
DM-24	0.07	0.16	0.32	0.60	0.89	1.32	1.74
DM-32	0.07	0.08	0.14	0.24	0.34	0.51	0.66
DM-40	0.03	0.06	0.13	0.21	0.40	0.45	0.61
DM-48	0.03	0.06	0.13	0.21	0.40	0.45	0.61
DM-64	0.03	0.06	0.13	0.21	0.40	0.45	0.61

Flow Conditioners

Turbine flow meters can be affected by the velocity profile of the fluid being measured. Installation with proper pipe runs will reduce or completely eliminate flow profile induced measurement errors during calibration and operation.

A straight run of pipe of at least 10 times the pipe diameter for the upstream side, and 5 times the pipe diameter for the downstream side are recommended (see figure and table). The upstream section should be fitted with a flow straightening vane.



Inlet section and outlet section, schematic diagram

Appropriate flow straightening sets (up- and downstream) are available from TrigasDM on request.



Filter

All pipe sections and components in the metering line must be cleaned prior to the installation of the flow meter. Pipe Sealants, metal shavings and slag can damage the flow meter. If the cleanliness of the fluid cannot be guaranteed, a filter should be installed upstream of the flow meter, subject to the diameter of the flow meter.

Model	Inner Ø [mm]	Filter mesh width
DM2-8	7.6	10 micrometer
DM4-8	7.6	10 micrometer
DM6-8	9.4	10 micrometer
DM8-8	10.2	10 micrometer
DM-08	11.2	10 micrometer
DM-10	12.8	10 micrometer
DM-12	14.3	10 micrometer
DM-16	21.9	20 micrometer
DM-20	25.4	20 micrometer
DM-24	34.4	50 micrometer
DM-32	44.5	50 micrometer
DM-40	59.8	50 micrometer
DM-48	73.0	50 micrometer
DM-64	98.0	50 micrometer

Explosion protection (ATEX)

All TrigasDM flowmeters can be configured for installation in hazardous locations, as severe as Zone 0. With appropriate pickoffs and Safety Barriers **ATEX: II 1G Ex ia IIC (Zone 0, 1, 2)** is possible.

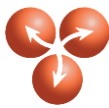
Please consult factory for details.

Declaration of conformity

TrigasDM flow meters are not subject to the WEEE directive for Waste Electrical and Electronic Equipment and comply with the RoHS directive for Restriction of Hazardous Substances. TrigasDM flow meters comply with applicable EU directives (EU Declaration of Conformity).

Warranty

TrigasDM GmbH guarantees that all the equipment supplied hereunder is flawless with regard to materials and workmanship, provided that the equipment was selected in accordance with its intended purpose, installed properly and not operated incorrectly. Only the current "General Terms and Conditions" of TrigasDM apply. You can either request a copy of the terms and conditions by calling +49 8165 9999-300, or visit our website at www.trigasdm.com for information.



Model numbering key DM-Series

Type code:	#1	#2	#3	#4	#5	#6
Example:	DM	-12	AN	-BC	-1	-S

1	Code	Not all combinations are possible. Consult Factory for available Configurations.
Type	DM	
2	Code	Size/ Measuring range liquids
Sensor	2-8	½" - iØ 7.6 mm; up to 5,5 l/min
	4-8	½" - iØ 7.6 mm; up to 13 l/min
	6-8	½" - iØ 9.4 mm; up to 24 l/min
	8-8	½" - iØ 10.2 mm; up to 38 l/min
	-08	½" - iØ 11.2 mm; up to 48 l/min
	-10	5/8" - iØ 12.8 mm; up to 70 l/min
	-12	¾" - iØ 14.3 mm; up to 95 l/min
	-16	1" - iØ 21.9 mm; up to 240 l/min
	-20	1¼" - iØ 25.4 mm; up to 490 l/min
	-24	1½" - iØ 33.4 mm; up to 820 l/min
	-32	2" - iØ 44.5 mm; up to 1300 l/min
	-40	2½" - iØ 59.7 mm; up to 1700 l/min
	-48	3" - iØ 73 mm; up to 2840 l/min
	-64	4" - iØ 98 mm; up to 5700 l/min
3	Code	Process connection
Process connection	AN	AN Male thread (up to DN-32); pressure rating according to Specification in Technical Data Section
	HS	Hose connection, 34 bar max. (depending on mating hose and clamp)
	NE	NPT male thread, pressure rating according to Specification in Technical Data Section
	BE	BSP male thread, pressure rating according to Specification in Technical Data Section
	C1	ANSI Flange 150#
	C3	ANSI Flange 600#
	D2	DIN Flange PN40
	D5	DIN Flange PN160
	T1	Tri-Clamp ½" – ¾", plate Ø 2,5 mm (up to DM-12 or smaller), 100 bar max. (depending on mating clamp)
	T2	Tri-Clamp 1" – 1½", plate Ø 50,5 mm, (DM16 or larger) 69 bar max. (depending on mating clamp)
	T3	Tri-Clamp 2", plate Ø 64,0 mm, 69 bar max. (depending on mating clamp)
	T4	Tri-Clamp 2 ½", plate Ø 77,5 mm, 69 bar max. (depending on mating clamp)
4	Code	Bearings
Bearings	-BC	Ball bearings, ceramic
	-BA	Ball bearings, stainless steel
5	Code	Material, housing and internals
Material	-1	Stainless steel (1.4305/303, 1.4104/430F, 1.4310/301, Si3N4, 1.4108/440C, 1.4016/430)
	-2	Stainless steel (1.4401/316, 1.4460/329, 1.4108/440C, 1.4310/301, Si3N4, 1.4108/440C, 1.4016/430)
6	Code	Housing
Housing Type	-S	Standard
	-L	Light weight version (HS Process Connection only)
	-K	Light weight / short version (HS Process Connection only)



Model numbering key Pickoff

List of available Pickoffs

Consult factory for compatibility and special applications

Type	Part Number	Description
RF Pickoffs	101466	Low Profile, Pivot, with PT100, 6-lead, 5m cable with ODU 7-pin half-shell connector, -55 to +180°C
	101128	High Profile, 2-pin MS connector, -74 to + 204°C
	101130	High Profile with PT100, 4-pin MS Bayonet connector, -55 to + 125°C
	101463	High Profile with PT100, 4-pin MS Bayonet connector, extended Temperature Range : -200 to + 230°C
	101104	High Profile, NPT ½" thread and 20 cm flying leads, -74 to + 204°C
	101103	High Profile with PT100, NPT ½" thread and 20 cm flying leads, -55 to + 177°C
Amplified RF Pickoffs	101462	High profile, 3-pin MS connector, -40 to +125°C
	101461	High profile, 5m 3-lead shielded cable with flying leads, -40 to +85°C
	CF	High profile with PT100, -40 to +125°C
Special Purpose RF Pickoffs	101464	Lysis Smart Pickoff, Low Profile, Pivot design, with T sensor, 5-lead, 5 m cable with ODU 5-pin half-shell connector, -40 to +125°C (For Lysis LSA-ST-05 & LSA-ST-08)
	101465	Lysis Smart Pickoff, Low Profile, Pivot design, with T sensor, 5-lead, 5 m cable with ODU 5-pin Nut/Nose connector, -40 to +125°C (For Lysis LSA-ST-07)