

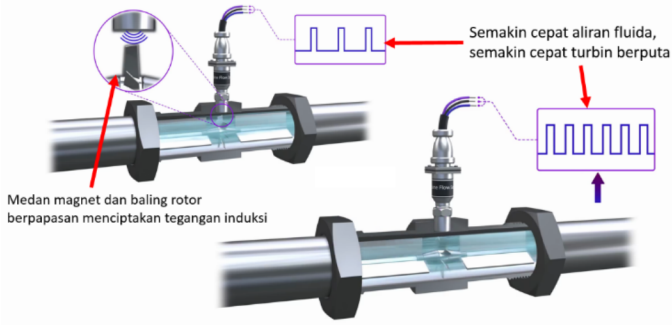
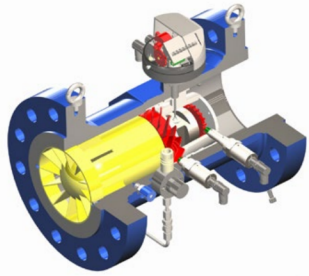
ارتباط با ما

تبریز - شهرک اندیشه - کیلومتر 2 جاده کرگان - پارک علم و فناوری تبریز - مجتمع عصر انقلاب - واحد 329

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جریان سنج توربینی یک نوع دستگاه اندازه گیری است که استفاده از آن در صنعت نفت و گاز خیلی مرسوم است. اغلب این نوع جریان سنج به دیگر جریان سنج ها به دلیل مزایایی نظیر سادگی در نصب و دقت بالای آن در اندازه گیری ترجیح داده می شود. به همین دلیل از این دستگاه اغلب برای اندازه گیری مواد با ارزش مثل نفت خام، گاز و همچنین فرآورده های نفت خام استفاده می شود. این نوع دبی سنج از نوع دبی سنج های سرعتی می باشد که سرعت جریان سیال را اندازه گیری می کند.

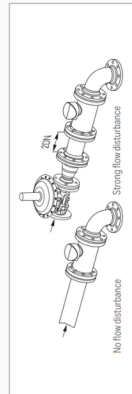
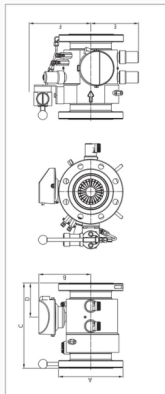


**GAS TURBINE
FLOWMETER**

Arian Sana Barin



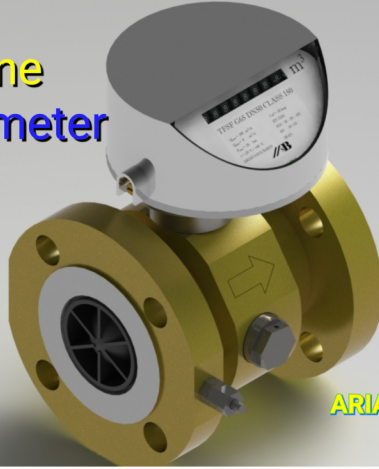
TECHNICAL DATA



Measuring data	-25 °C to +70 °C												
	DN	50	80	80	80	100	100	150	150	150	150	150	
Meter size	G	65	100	160	250*	160	250	400*	400*	400*	400*	650*	
Measuring range	Q _{min}	5	8	12,5	20	12,5	20	32	20	32	20	32	
	Q _{max}	100	160	250	400	250	400	650	400	650	400	1000	
Δp ** at Q _{max}	[mbar]	11	2	5	12	2	5	13	1	2	1	6	
Temperature range		-25 °C to +70 °C											
Pressure rates		PN-10, 16, 25, 40, 64, 100 / ANSI-150, 300, 600											
Housing ***	Dimensions	A mm	165	215	215	215	273	273	273	273	356	356	356
		B mm	155	172	172	172	185	185	185	210	210	210	210
		C mm	150	240	240	240	300	300	300	300	450	450	450
		D mm	75	100	100	100	120	120	120	120	180	180	180
		E mm	135	157	157	157	170	170	170	170	193	193	193
		F mm	280	200	200	200	210	210	210	210	235	235	235
Weight [kg] ***	PN10/16, ANSI150	10	21	21	21	29	29	29	29	53	53	53	
	PN25/40, ANSI300	13	32	32	32	50	50	50	50	91	91	91	
	PN64/100, ANSI600	15	33	33	33	50	50	50	50	97	97	97	
Outputs / pulse values *** [imp/m³]	LF-Type E1	10	1	1	1	1	1	1	1	1	1	0.1	
	HF-Type A TR	28000	10500	10500	10500	6630	6630	6630	6630	2560	2560	2560	
	HF-Type A TS	-	21000	21000	21000	13260	13260	13260	13260	5120	5120	5120	

Turbine Flowmeter

DN 50



ARIAN SANA BARIN COMPANY

Applications

Custody Transfer approved Gas Flow Measurement from low to high operating pressures.
Gas Distribution, Industrial and Commercial applications

Operating Principle

The gas flowing through the meter sets the turbine wheel in motion. The number of revolutions of the wheel is proportional to the volume passing through the meter. To optimize measurement performance a patented flow straightener eliminates flow disturbances such as swirl or asymmetric flow that are e.g. created by bends or T-pieces upstream of the meter. After the flow conditioner the cross section of the meter is reduced to increase flow velocity and consequently increase the driving impulse of the medium on the turbine wheel.

The combination of flow conditioning and optimized measurement unit incl. the turbine wheel make it possible to measure the flow rate accurately even at low flows and pressures. The shaft on which the turbine wheel is fixed is held in place by robust ball bearings that help to maintain high performance for a long time with minimized maintenance needs. Via gears and a magnetic coupling the revolutions of the turbine wheel are transmitted to the 8-digit mechanical counter located in the pressure-less index head.

The outlet of the meter has been optimized to decrease pressure loss and create optimal flow conditions after the meter.

Measuring ranges

Standard measurement range is 1:20. Depending on the operating pressure MID allows for higher measuring ranges.
Please contact the factory for more details.

$$Q_{min, HP} = Q_{min, LP} \cdot \frac{1}{\sqrt{d_v \cdot p}}$$

d_v=density ratio of gas (natural gas d_v = 0.65)
p=actual absolute pressure [bar]

