Pietro Fiorentini S.p.A.
Via E.Fermi 8/10
36057 - Arcugnano (VI) - Italy

www.fiorentini.com

Revision: June 2019

Technical Specifications

Turbine gas meter, series Type-C, iM-TM-Q

Applications:		Natural gas / Argon / Butane / Ethane
		Nitrogen / Carbon dioxide / Carbon monoxide
		Air / Methane / Pentane / Propane
Meter body:	strength calculation -	according RToD & EN 13445
	material -	Cast aluminum
	flange connection -	according to ASME B16.5/EN1092 raised faced
	Pressure rating & mounting -	see table below
	surface treatment -	hard anodized
	installation length (L) -	see table below
	design pressure -	20 bar
	design temperature range -	-25° / +65° C
	max. operating pressure -	according flange classification, see below table
	operating temp. range -	-25° / +65° C
Feature:		
	flow direction -	Horizontal/Vertical
	pressure point -	Standard EO6 pipe-port - On request ¼ NPT plugged
	temperature measuring point -	cable gland 6mm (2 pocket if No HF on Shaft, 1x pocket if HF on Shaft required)
	Lubrication system -	Standard: manual Oil-Pump
	high frequency sensor -	Optional HF ONLY on Main Shaft
Index:		Standard: 8 digit index , on request Optical Encoder Index
	low frequency sensor -	2x low frequency NO reed contact & 1 x anti fraude NC reed contact
	reading -	cubic meters
Calibration:	authority -	Standard QA calibration
	rangebility -	determined by approval & technical Qmin. See table below
	accuracy -	Qmin ≤ Q Qt % & Qt ≤ Q ≤ Qmax ±1% (Qt according to EN12261)
	repeatability -	0.2% or better
Approvals:		Compliant with part of EN12261
	ATEX	Compliant with 2014/34/EU - Receipt TUV n° 0206120
	PED	Compliant with 2014/68/EU - Lloyd's register Certificate 0038/PED/MLN PRJ11090550/02/01
Documents:		declaration of conformity, manual , calibrations certificate, installation instructions
Options:		on request

Available Size:

Rating	Qmax.	Qmin.	Size	LF pulses	Length	Weight	Mounting Bolts		
range	*m³/h*	*m³/h*	*metric (inch)*	*Imp. /m³*	*mm*	*Kg*	*PN10*	*PN16*	*ANSI 125-150*
G40	65	13	*50 (2")*	10	150	5,5	4 x M16	4 x M16	4 x 5/8 UNC
G65	100	10		10					
G100	160	16		1					
G100	160	8	*80 (3")*	1	120	6,8	8 x M16	8 x M16	4 x 5/8 UNC
G160	250	13		1					
G250	400	20		1					
G400	650	32		1					
G160	250	13	*100 (4")*	1	150	8,2	8 x M16	8 x M16	8 x 5/8 UNC
G250	400	20		1					
G400	650	32		1					
G650	1000	50		1					

Note:

Pietro Fiorentini S.p.A.
Via E.Fermi 8/10
36057 - Arcugnano (VI) - Italy

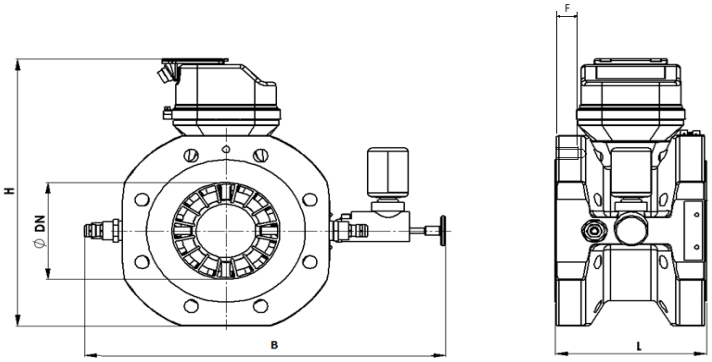
www.fiorentini.com

Revision: June 2019

Overall Dimensions

Turbine gas meter, series Type-C, iM-TM-Q

This drawing lists main dimensions of IMTM-Q meter housing
made of aluminum PN16 or ANSI150 type only.
According to customer requests, B and/or H dimension(s) may change
(example, when cryogenic long neck, HF shaft/wheel, and/or high pressure oil pump are used).



Aluminum body PN16 & ANSI150					
Size	**DN**	**L** ± 5 mm [mm]	**B** ± 10 mm [mm]	**H** ± 10 mm [mm]	**F** min [mm]
50 mm (2”)	50	150	307	240	35
80 mm (3”)	80	120	330	270	40
100 mm (4”)	100	150	360	300	40

Technical specifications and construction may change due
to improvement without prior notice